

**DATA PACKAGE
VOLATILE ORGANICS**

PROJECT NAME : THE WILLS BUILDING

CORE ENVIRONMENTAL CONSULTANTS AND SERVICES, INC.

22-48 119th Street

College Point, NY - 11356

Phone No: 7187864730

ORDER ID : Q3312

ATTENTION : Roland Scardino



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3312

Project ID : The Wills Building

Client : Core Environmental Consultants and Services, Inc.

Lab Sample Number

Q3312-01

Client Sample Number

362Kingsland-001S

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 :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 2:28 pm, Oct 17, 2025

Date: 10/16/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Core Environmental Consultants and Services, Inc.

Project Name: The Wills Building

Project # N/A

Order ID # Q3312

Test Name: VOC-BTEX

A. Number of Samples and Date of Receipt:

1 Water sample was received on 10/08/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOC-BTEX. This data package contains results for VOC-BTEX.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOC-BTEX was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

E. Additional Comments:

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.



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

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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 2:28 pm, Oct 17, 2025

Signature_____

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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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3312

MATRIX: Water

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements. The Continuous Calibration met the requirements.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

ADDITIONAL COMMENTS:

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

Trip Blank was not provided with this set of samples.

QA REVIEW

REVIEWED

Date

By Sohil Jodhani, QA/QC Director at 2:08 pm, Oct 17, 2025

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3312

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: SOHIL JODHANI

Date: 10/16/2025

LAB CHRONICLE

OrderID:	Q3312	OrderDate:	10/8/2025 1:35:00 PM
Client:	Core Environmental Consultants and Services, Inc.	Project:	The Wills Building
Contact:	Roland Scardino	Location:	VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3312-01	362Kingsland-001S	Water	VOC-BTEX	8260-Low	10/08/25		10/14/25	10/08/25

Hit Summary Sheet
SW-846

SDG No.: Q3312

Client: Core Environmental Consultants and Services, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID:

0

Total Voc :

Total Concentration:



QC SUMMARY

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Surrogate Summary

SDG No.: Q3312

Client: Core Environmental Consultants and Services, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3312-01	362Kingsland-001S	1,2-Dichloroethane-d4	50	53.3	107		74	125
		Dibromofluoromethane	50	55.2	110		75	124
		Toluene-d8	50	53.0	106		86	113
		4-Bromofluorobenzene	50	59.6	119		77	121
VX1014WBL01	VX1014WBL01	1,2-Dichloroethane-d4	50	55.0	110		74	125
		Dibromofluoromethane	50	52.0	104		75	124
		Toluene-d8	50	50.4	101		86	113
		4-Bromofluorobenzene	50	56.5	113		77	121
VX1014WBS01	VX1014WBS01	1,2-Dichloroethane-d4	50	42.8	86		74	125
		Dibromofluoromethane	50	52.5	105		75	124
		Toluene-d8	50	51.6	103		86	113
		4-Bromofluorobenzene	50	52.1	104		77	121
VX1014WBSD0	VX1014WBSD01	1,2-Dichloroethane-d4	50	44.3	89		74	125
		Dibromofluoromethane	50	54.1	108		75	124
		Toluene-d8	50	52.2	104		86	113
		4-Bromofluorobenzene	50	54.7	109		77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3312</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>Core Environmental Consultants and</u>	Datafile :	<u>VX048156.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1014WBS01	Benzene	20	19.6	ug/L	98			82	109	
	Toluene	20	20.0	ug/L	100			82	110	
	Ethyl Benzene	20	19.2	ug/L	96			83	109	
	m/p-Xylenes	40	39.5	ug/L	99			82	110	
	o-Xylene	20	19.2	ug/L	96			83	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3312 **Analytical Method:** SW8260-Low
Client: Core Environmental Consultants and **Datafile :** VX048157.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1014WBSD01	Benzene	20	20.3	ug/L	102	4		82	109	15
	Toluene	20	20.8	ug/L	104	4		82	110	16
	Ethyl Benzene	20	19.2	ug/L	96	0		83	109	16
	m/p-Xylenes	40	39.9	ug/L	100	1		82	110	15
	o-Xylene	20	19.3	ug/L	97	1		83	109	20

VOLATILE METHOD BLANK SUMMARY

Client ID

VX1014WBL01

Lab Name: Alliance

Contract: CORE02

Lab Code: ACE

SDG NO.: Q3312

Lab File ID: VX048155.D

Lab Sample ID: VX1014WBL01

Date Analyzed: 10/14/2025

Time Analyzed: 10:52

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
VX1014WBS01	VX1014WBS01	VX048156.D	10/14/2025
VX1014WBSD01	VX1014WBSD01	VX048157.D	10/14/2025
362Kingsland-001S	Q3312-01	VX048171.D	10/14/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)
Lab Name: AllianceContract: CORE02Lab Code: ACESDG NO.: Q3312Lab File ID: VX047584.DBFB Injection Date: 09/16/2025Instrument ID: MSVOA_XBFB Injection Time: 08:56GC 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	20
75	30.0 - 60.0% of mass 95	54
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	67.3
175	5.0 - 9.0% of mass 174	5.4 (8.1) 1
176	95.0 - 101.0% of mass 174	66.3 (98.6) 1
177	5.0 - 9.0% of mass 176	4.3 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX047585.D	09/16/2025	09:23
VSTDIC005	VSTDIC005	VX047586.D	09/16/2025	10:16
VSTDIC020	VSTDIC020	VX047587.D	09/16/2025	10:37
VSTDIC050	VSTDIC050	VX047588.D	09/16/2025	10:58
VSTDIC100	VSTDIC100	VX047589.D	09/16/2025	11:40
VSTDIC150	VSTDIC150	VX047590.D	09/16/2025	12:01

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)
Lab Name: AllianceContract: CORE02Lab Code: ACESDG NO.: Q3312Lab File ID: VX048152.DBFB Injection Date: 10/14/2025Instrument ID: MSVOA_XBFB Injection Time: 09:33GC 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	20.6
75	30.0 - 60.0% of mass 95	53.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	69.1
175	5.0 - 9.0% of mass 174	5.3 (7.7) 1
176	95.0 - 101.0% of mass 174	66.7 (96.5) 1
177	5.0 - 9.0% of mass 176	4.5 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX048153.D	10/14/2025	10:02
VX1014WBL01	VX1014WBL01	VX048155.D	10/14/2025	10:52
VX1014WBS01	VX1014WBS01	VX048156.D	10/14/2025	11:20
VX1014WBSD01	VX1014WBSD01	VX048157.D	10/14/2025	11:47
362Kingsland-001S	Q3312-01	VX048171.D	10/14/2025	16:56

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: CORE02
Lab Code: ACE SDG NO.: Q3312
Lab File ID: VX048153.D Date Analyzed: 10/14/2025
Instrument ID: MSVOA_X Time Analyzed: 10:02
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	124958	5.53	212282	6.74	195629	10.04
UPPER LIMIT	249916	6.031	424564	7.239	391258	10.537
LOWER LIMIT	62479	5.031	106141	6.239	97814.5	9.537
EPA SAMPLE NO.						
362Kingsland-001S	116081	5.54	223818	6.75	253264	10.04
VX1014WBL01	131511	5.54	270081	6.75	285912	10.04
VX1014WBS01	142018	5.54	232029	6.75	210304	10.04
VX1014WBSD01	130530	5.53	213217	6.75	200566	10.04

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: Alliance Contract: CORE02
Lab Code: ACE SDG NO.: Q3312
Lab File ID: VX048153.D Date Analyzed: 10/14/2025
Instrument ID: MSVOA_X Time Analyzed: 10:02
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	95000	12.00€				
UPPER LIMIT	190000	12.50€				
LOWER LIMIT	47500	11.50€				
EPA SAMPLE NO.						
362Kingsland-001S	128249	12.01				
VX1014WBL01	141849	12.01				
VX1014WBS01	112794	12.01				
VX1014WBSD01	106639	12.01				

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

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Report of Analysis

Client: Core Environmental Consultants and Services, Inc.
 Project: The Wills Building
 Client Sample ID: 362Kingsland-001S
 Lab Sample ID: Q3312-01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level : LOW
 Final Vol: 5000 uL

Date Collected: 10/08/25
 Date Received: 10/08/25
 SDG No.: Q3312
 Matrix: Water
 % Solid: 0
 Test: VOC-BTEX

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
71-43-2	Benzene	1.00	U	1	0.15	1.00	ug/L	10/14/25 16:56	VX101425
108-88-3	Toluene	1.00	U	1	0.14	1.00	ug/L	10/14/25 16:56	VX101425
100-41-4	Ethyl Benzene	1.00	U	1	0.13	1.00	ug/L	10/14/25 16:56	VX101425
179601-23-1	m/p-Xylenes	2.00	U	1	0.24	2.00	ug/L	10/14/25 16:56	VX101425
95-47-6	o-Xylene	1.00	U	1	0.12	1.00	ug/L	10/14/25 16:56	VX101425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	53.3			74 - 125	107%	SPK: 50		
1868-53-7	Dibromofluoromethane	55.2			75 - 124	110%	SPK: 50		
2037-26-5	Toluene-d8	53.0			86 - 113	106%	SPK: 50		
460-00-4	4-Bromofluorobenzene	59.6			77 - 121	119%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	116000							
540-36-3	1,4-Difluorobenzene	224000							
3114-55-4	Chlorobenzene-d5	253000							
3855-82-1	1,4-Dichlorobenzene-d4	128000							

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\VX101425\
 Data File : VX048171.D
 Acq On : 14 Oct 2025 16:56
 Operator : JC/MD
 Sample : Q3312-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 362Kingsland-001S

Quant Time: Oct 15 02:48:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

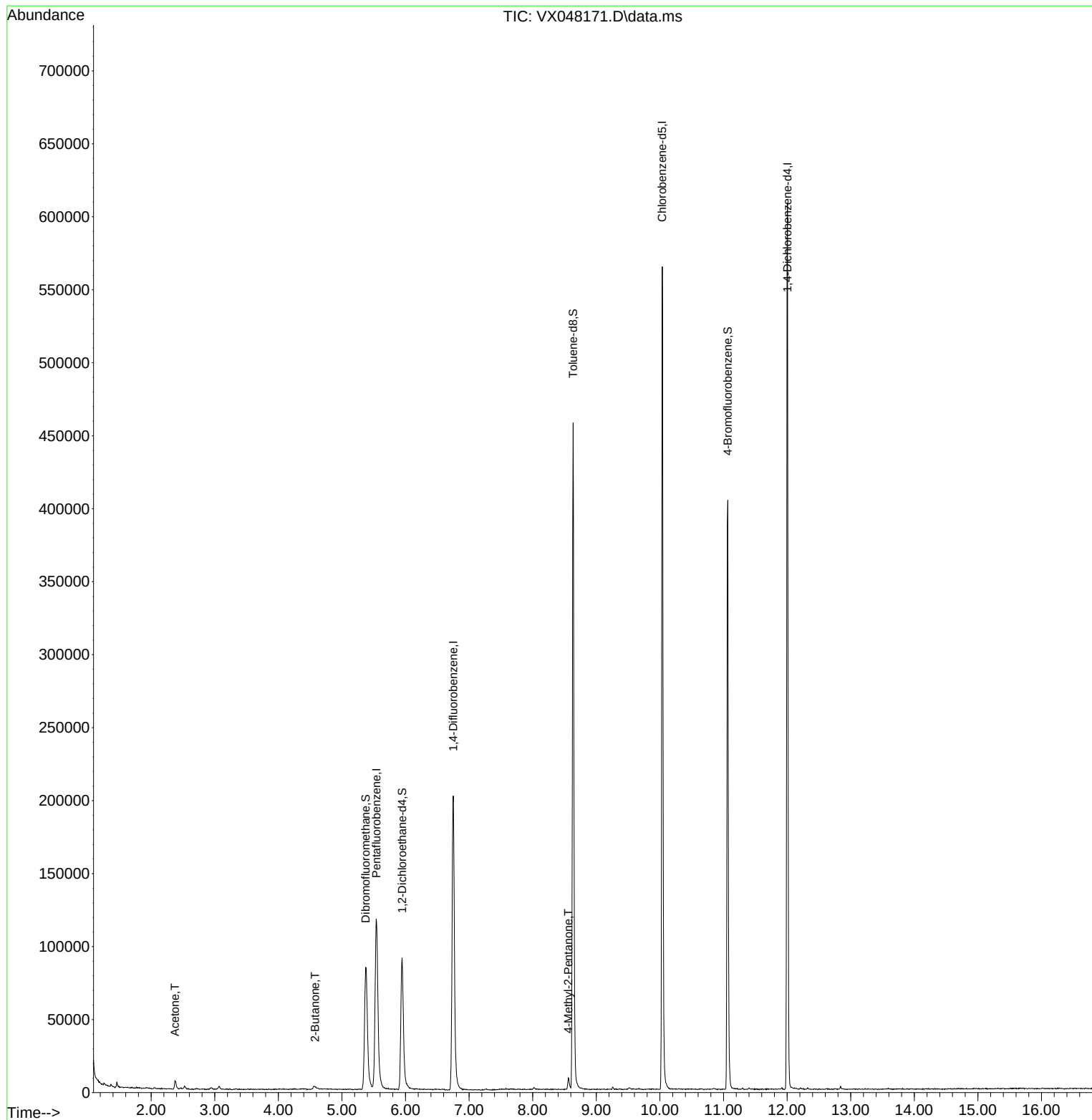
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	116081	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	223818	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	253264	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	128249	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	98540	53.331	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 106.660%	
35) Dibromofluoromethane	5.373	113	82905	55.231	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 110.460%	
50) Toluene-d8	8.635	98	275177	52.981	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 105.960%	
62) 4-Bromofluorobenzene	11.067	95	117503	59.610	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 119.220%	
Target Compounds						Qvalue
16) Acetone	2.374	43	7614	9.477	ug/l #	87
25) 2-Butanone	4.574	43	4715	4.705	ug/l #	90
51) 4-Methyl-2-Pentanone	8.561	43	5646	2.644	ug/l	97

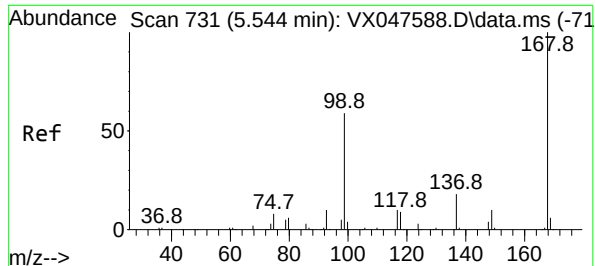
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101425\
Data File : VX048171.D
Acq On : 14 Oct 2025 16:56
Operator : JC/MD
Sample : Q3312-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
362Kingsland-001S

Quant Time: Oct 15 02:48:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

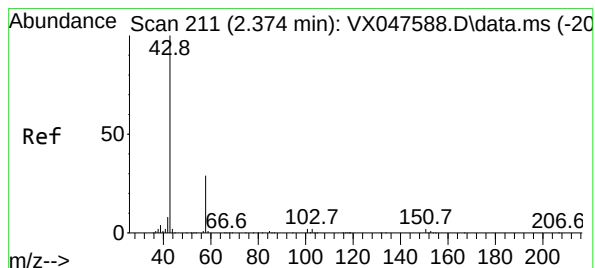
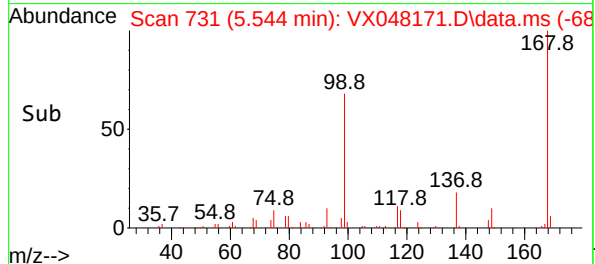
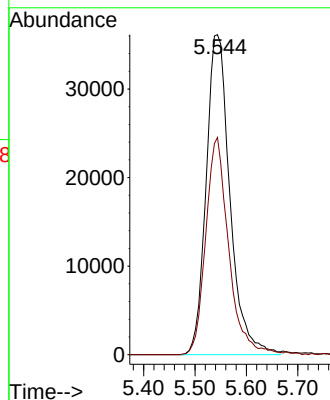
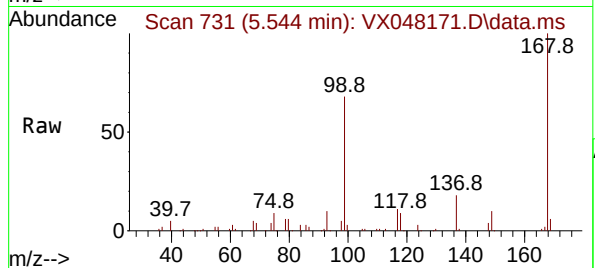




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048171.D
Acq: 14 Oct 2025 16:56

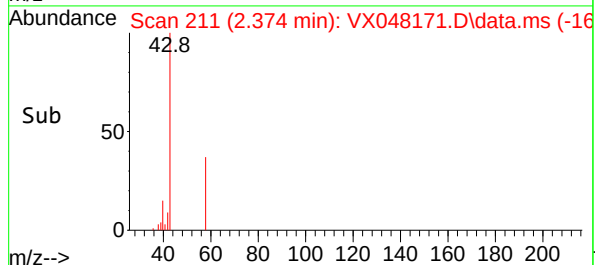
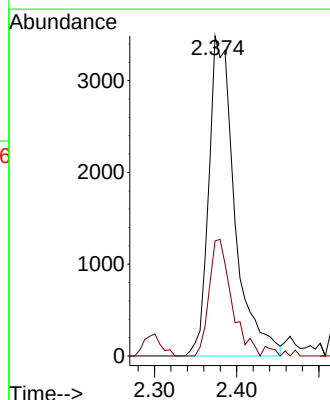
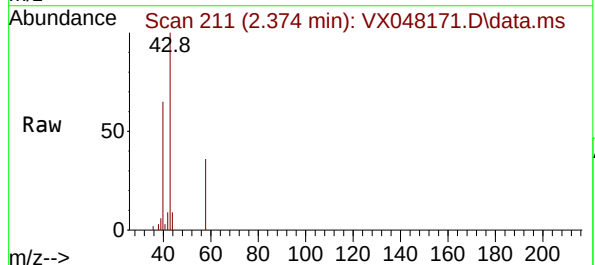
Instrument :
MSVOA_X
ClientSampleId :
362Kingsland-001S

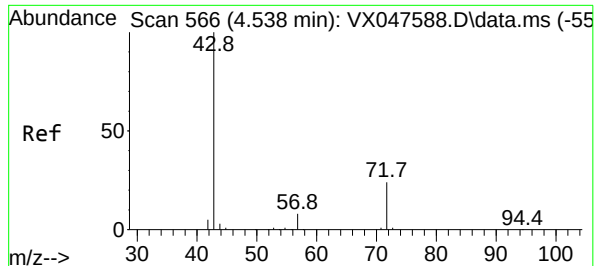
Tgt Ion:168 Resp: 116081
Ion Ratio Lower Upper
168 100
99 67.9 48.8 73.2



#16
Acetone
Concen: 9.477 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048171.D
Acq: 14 Oct 2025 16:56

Tgt Ion: 43 Resp: 7614
Ion Ratio Lower Upper
43 100
58 35.9 23.4 35.0#





#25

2-Butanone

Concen: 4.705 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.037 min

Lab File: VX048171.D

Acq: 14 Oct 2025 16:56

Instrument :

MSVOA_X

ClientSampleId :

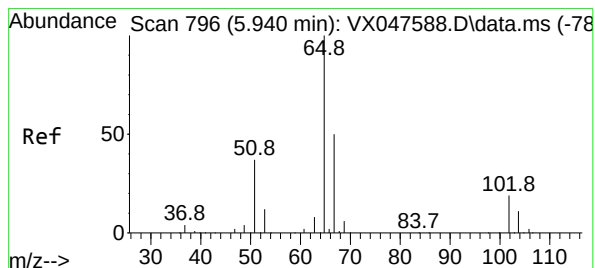
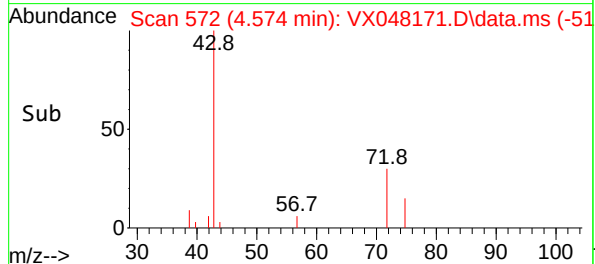
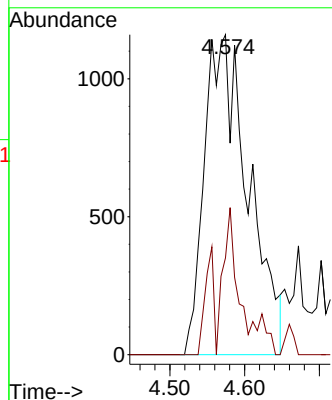
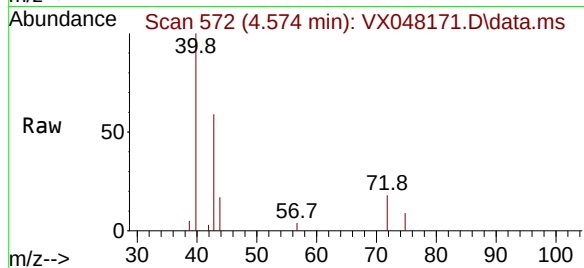
362Kingsland-001S

Tgt Ion: 43 Resp: 4715

Ion Ratio Lower Upper

43 100

72 30.3 20.1 30.1#



#33

1,2-Dichloroethane-d4

Concen: 53.331 ug/l

RT: 5.946 min Scan# 797

Delta R.T. 0.006 min

Lab File: VX048171.D

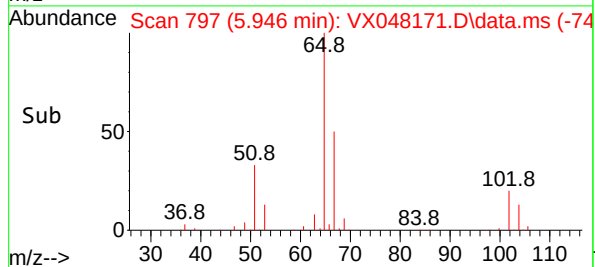
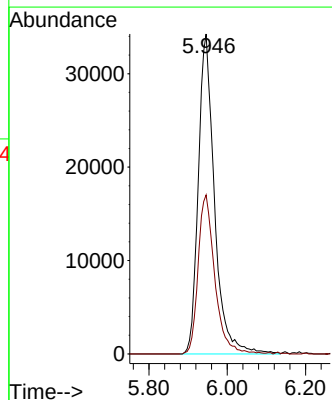
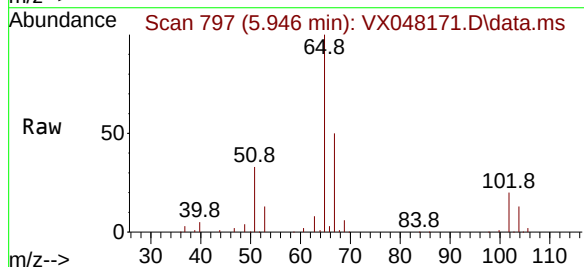
Acq: 14 Oct 2025 16:56

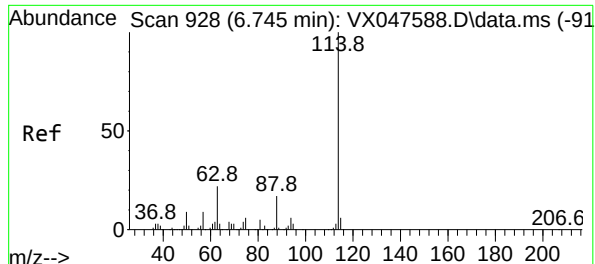
Tgt Ion: 65 Resp: 98540

Ion Ratio Lower Upper

65 100

67 51.3 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 91

Delta R.T. 0.006 min

Lab File: VX048171.D

Acq: 14 Oct 2025 16:56

Instrument :

MSVOA_X

ClientSampleId :

362Kingsland-001S

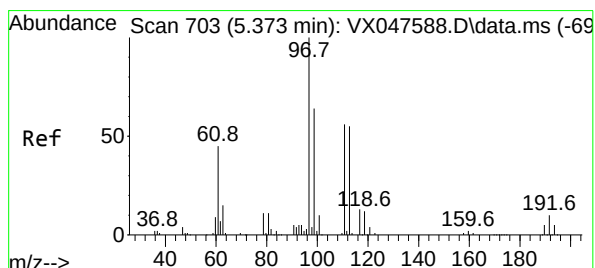
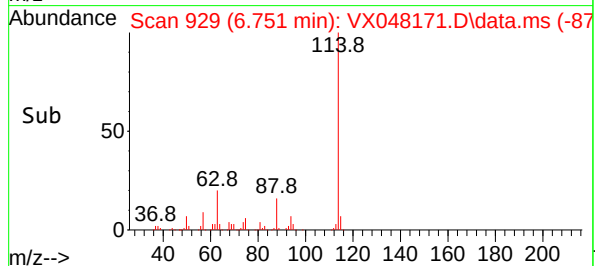
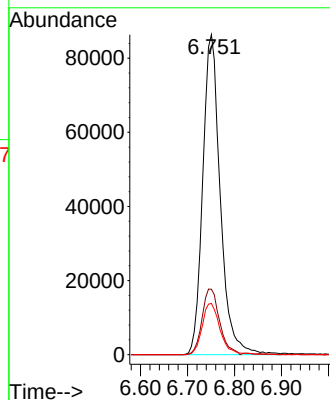
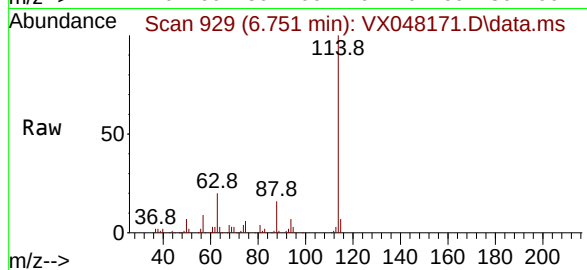
Tgt Ion:114 Resp: 223818

Ion Ratio Lower Upper

114 100

63 20.4 0.0 44.0

88 16.0 0.0 34.2



#35

Dibromofluoromethane

Concen: 55.231 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX048171.D

Acq: 14 Oct 2025 16:56

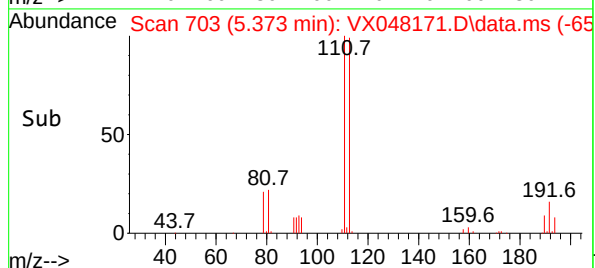
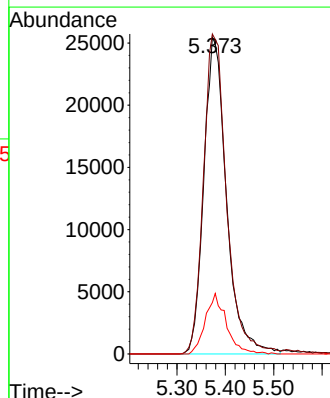
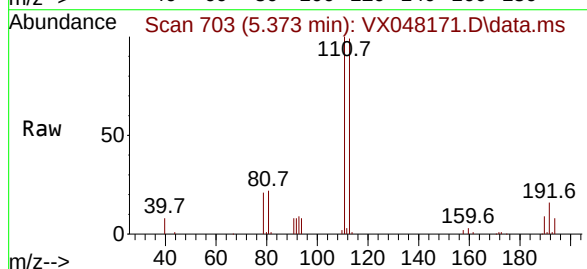
Tgt Ion:113 Resp: 82905

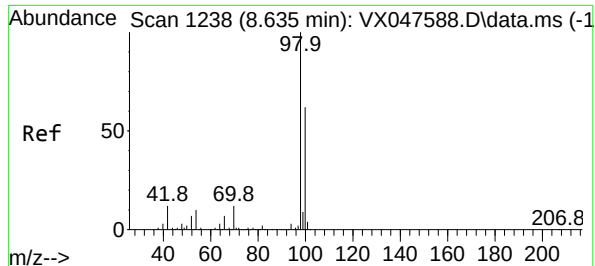
Ion Ratio Lower Upper

113 100

111 103.0 80.9 121.3

192 17.7 14.2 21.4





#50

Toluene-d8

Concen: 52.981 ug/l

RT: 8.635 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048171.D

Acq: 14 Oct 2025 16:56

Instrument :

MSVOA_X

ClientSampleId :

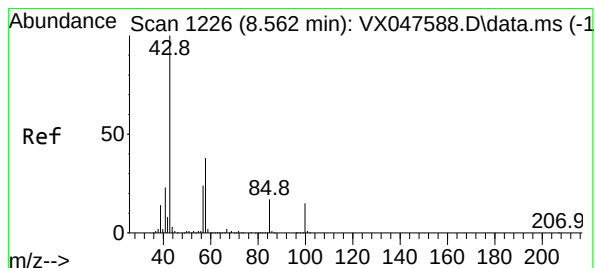
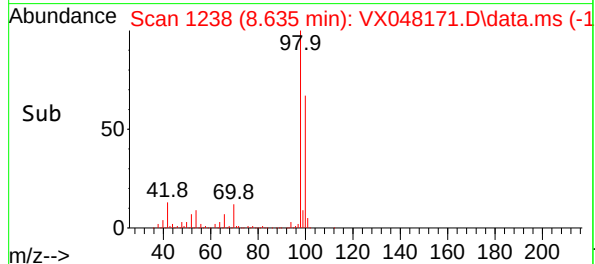
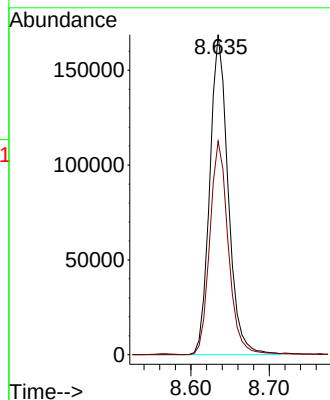
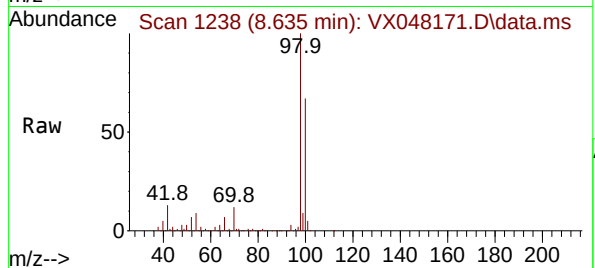
362Kingsland-001S

Tgt Ion: 98 Resp: 275177

Ion Ratio Lower Upper

98 100

100 66.8 53.0 79.4



#51

4-Methyl-2-Pentanone

Concen: 2.644 ug/l

RT: 8.561 min Scan# 1226

Delta R.T. -0.000 min

Lab File: VX048171.D

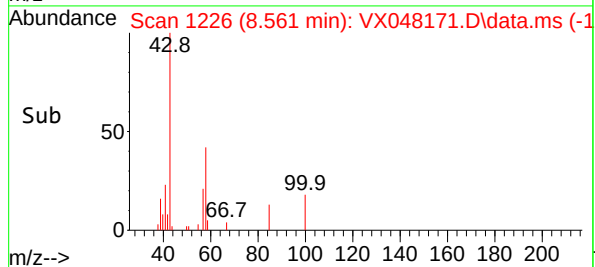
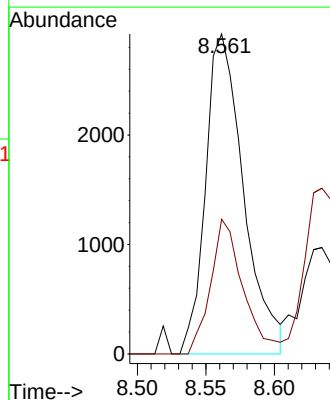
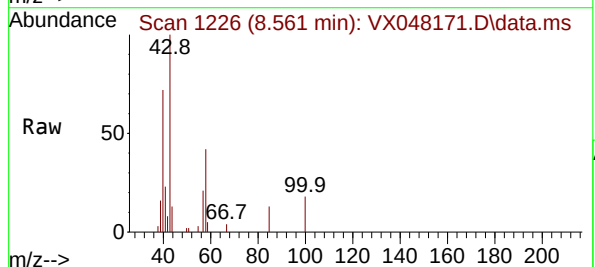
Acq: 14 Oct 2025 16:56

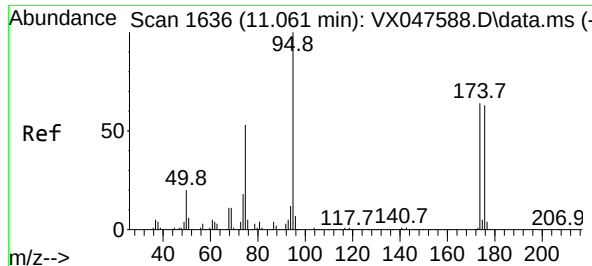
Tgt Ion: 43 Resp: 5646

Ion Ratio Lower Upper

43 100

58 36.0 30.3 45.5

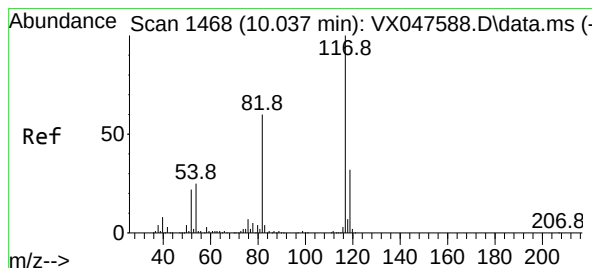
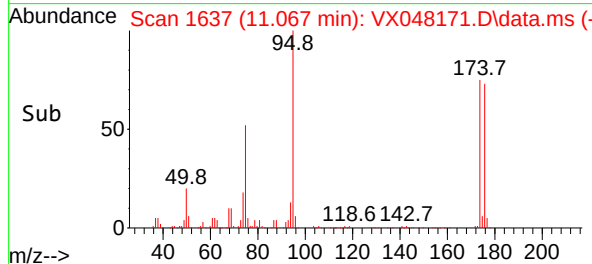
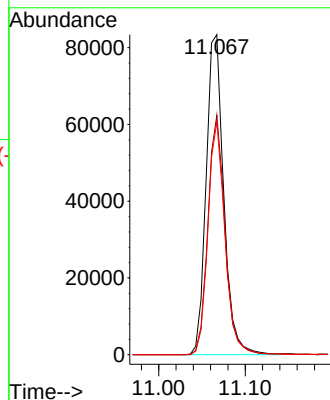
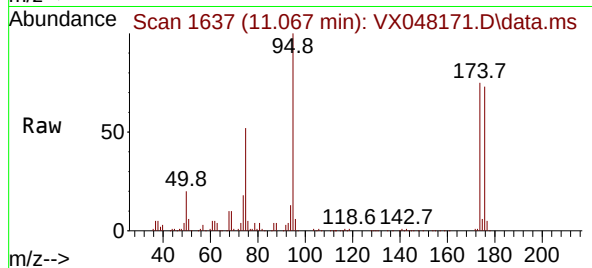




#62
4-Bromofluorobenzene
Concen: 59.610 ug/l
RT: 11.067 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX048171.D
Acq: 14 Oct 2025 16:56

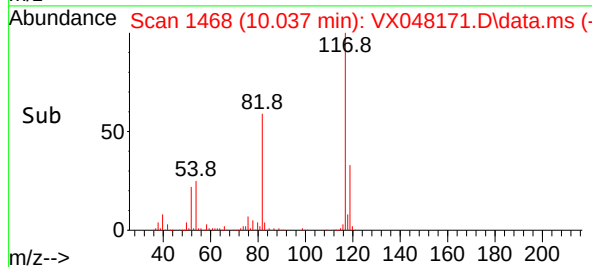
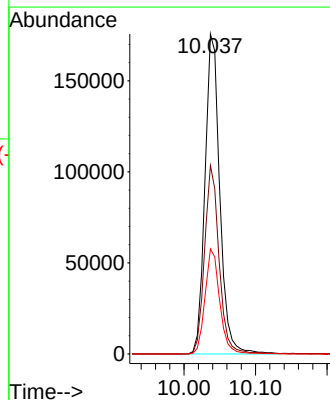
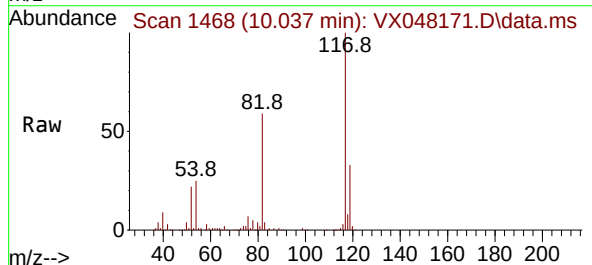
Instrument :
MSVOA_X
ClientSampleId :
362Kingsland-001S

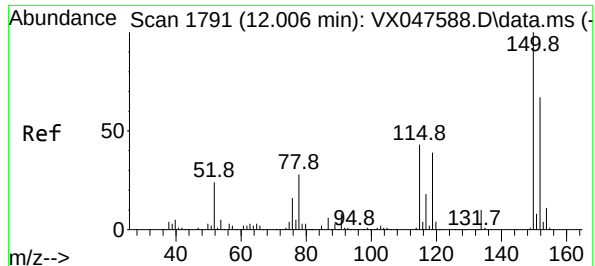
Tgt Ion: 95 Resp: 117503
Ion Ratio Lower Upper
95 100
174 73.0 0.0 141.6
176 70.3 0.0 138.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048171.D
Acq: 14 Oct 2025 16:56

Tgt Ion: 117 Resp: 253264
Ion Ratio Lower Upper
117 100
82 58.9 47.8 71.6
119 32.9 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048171.D

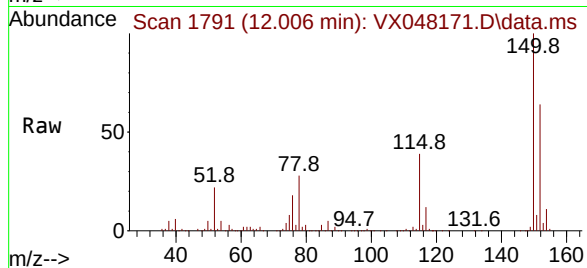
Acq: 14 Oct 2025 16:56

Instrument :

MSVOA_X

ClientSampleId :

362Kingsland-001S



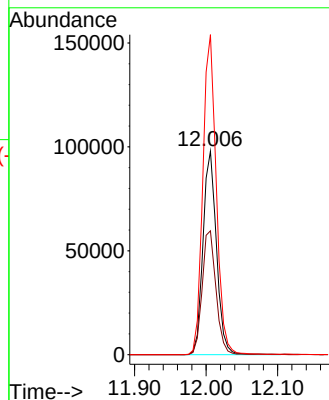
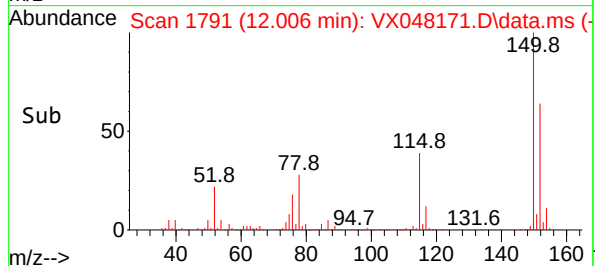
Tgt Ion:152 Resp: 128249

Ion Ratio Lower Upper

152 100

115 62.8 44.9 134.5

150 156.7 0.0 352.0





CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: CORE02
 Lab Code: ACE SDG No.: Q3312
 Instrument ID: MSVOA_X Calibration Date(s): 09/16/2025 09/16/2025
 Heated Purge: (Y/N) N Calibration Time(s): 09:23 12:01
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX047585.D		RRF005 = VX047586.D		RRF020 = VX047587.D			
		RRF050 = VX047588.D		RRF100 = VX047589.D		RRF150 = VX047590.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Benzene	1.330	1.577	1.566	1.523	1.473	1.459	1.488	6.1	
Toluene	0.841	0.967	0.960	0.940	0.897	0.897	0.917	5.2	
Ethyl Benzene	1.625	2.077	2.049	2.039	1.996	1.973	1.960	8.6	
m/p-Xylenes	0.604	0.774	0.765	0.765	0.739	0.730	0.729	8.8	
o-Xylene	0.576	0.734	0.734	0.749	0.721	0.719	0.706	9.1	
1,2-Dichloroethane-d4		0.884	0.647	0.770	0.815	0.863	0.796	11.8	
Dibromofluoromethane		0.356	0.266	0.331	0.355	0.368	0.335	12.3	
Toluene-d8		1.237	0.943	1.147	1.211	1.263	1.160	11.1	
4-Bromofluorobenzene		0.478	0.360	0.427	0.452	0.484	0.440	11.4	

* 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 : 82X091625W.M
 Title : SW846 8260
 Last Update : Wed Sep 17 06:39:58 2025
 Response Via : Initial Calibration

Calibration Files

1 =VX047585.D 5 =VX047586.D 20 =VX047587.D 50 =VX047588.D 100 =VX047589.D 150 =VX047590.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.447	0.575	0.582	0.501	0.510	0.492	0.518	10.01
3) P	Chloromethane	0.610	0.749	0.739	0.661	0.677	0.647	0.680	7.92
4) C	Vinyl Chloride	0.572	0.713	0.716	0.661	0.677	0.658	0.666	7.87#
5) T	Bromomethane		0.493	0.451	0.424	0.423	0.321	0.422	15.01
6) T	Chloroethane	0.433	0.450	0.469	0.443	0.450	0.426	0.445	3.36
7) T	Trichlorofluor...	0.865	1.033	1.038	0.995	1.018	0.986	0.989	6.49
8) T	Diethyl Ether	0.372	0.405	0.413	0.409	0.420	0.409	0.405	4.17
9) T	1,1,2-Trichlor...	0.519	0.591	0.603	0.583	0.590	0.583	0.578	5.21
10) T	Methyl Iodide		0.865	0.922	0.911	0.925	0.886	0.902	2.85
11) T	Tert butyl alc...		0.085	0.086	0.089	0.090	0.094	0.089	4.18
12) CM	1,1-Dichloroet...	0.526	0.612	0.618	0.604	0.609	0.596	0.594	5.71#
13) T	Acrolein		0.071	0.069	0.082	0.089	0.097	0.082	14.59
14) T	Allyl chloride	1.194	1.267	1.249	1.211	1.226	1.207	1.226	2.25
15) T	Acrylonitrile	0.264	0.329	0.343	0.347	0.343	0.344	0.328	9.82
16) T	Acetone	0.343	0.416	0.400	0.317	0.302	0.299	0.346	14.67
17) T	Carbon Disulfide	1.555	1.735	1.758	1.566	1.589	1.555	1.626	5.80
18) T	Methyl Acetate	0.612	0.673	0.714	0.876	0.865	0.881	0.770	15.39
19) T	Methyl tert-bu...	1.884	2.238	2.221	2.247	2.212	2.209	2.169	6.47
20) T	Methylene Chlo...	0.718	0.772	0.754	0.730	0.716	0.705	0.732	3.45
21) T	trans-1,2-Dich...	0.543	0.703	0.665	0.649	0.643	0.635	0.640	8.28
22) T	Diisopropyl ether	1.976	2.531	2.487	2.477	2.398	2.384	2.376	8.56
23) T	Vinyl Acetate	1.541	1.937	2.020	1.992	1.958	1.961	1.901	9.41
24) P	1,1-Dichloroet...	1.090	1.325	1.299	1.297	1.287	1.278	1.263	6.81
25) T	2-Butanone	0.370	0.470	0.473	0.439	0.414	0.424	0.432	8.98
26) T	2,2-Dichloropr...	0.945	1.096	1.074	1.068	1.055	1.060	1.050	5.06
27) T	cis-1,2-Dichlo...	0.698	0.806	0.803	0.808	0.787	0.797	0.783	5.41
28) T	Bromochloromet...	0.457	0.607	0.450	0.577	0.587	0.630	0.551	14.18
29) T	Tetrahydrofuran	0.211	0.269	0.272	0.275	0.262	0.268	0.260	9.24
30) C	Chloroform	1.034	1.364	1.366	1.323	1.282	1.288	1.276	9.72#
31) T	Cyclohexane		1.161	1.092	1.030	0.984	0.993	1.052	7.08
32) T	1,1,1-Trichlor...	0.901	1.123	1.141	1.127	1.100	1.103	1.082	8.33
33) S	1,2-Dichloroet...		0.884	0.647	0.770	0.815	0.863	0.796	11.82
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.356	0.266	0.331	0.355	0.368	0.335	12.25
36) T	1,1-Dichloropr...	0.484	0.520	0.508	0.487	0.471	0.469	0.490	4.15
37) T	Ethyl Acetate	0.429	0.561	0.554	0.532	0.533	0.539	0.525	9.21
38) T	Carbon Tetrach...	0.482	0.574	0.555	0.539	0.526	0.518	0.532	5.99
39) T	Methylcyclohexane	0.490	0.589	0.591	0.565	0.548	0.554	0.556	6.60
40) TM	Benzene	1.330	1.577	1.566	1.523	1.473	1.459	1.488	6.11
41) T	Methacrylonitrile	0.236	0.264	0.286	0.286	0.282	0.271	0.271	7.13
42) TM	1,2-Dichloroet...	0.513	0.595	0.600	0.582	0.554	0.553	0.566	5.76
43) T	Isopropyl Acetate	0.751	0.882	0.889	0.897	0.865	0.879	0.860	6.34
44) TM	Trichloroethene	0.296	0.382	0.382	0.370	0.364	0.363	0.360	8.92
45) C	1,2-Dichloropr...	0.326	0.403	0.394	0.397	0.382	0.384	0.381	7.37#
46) T	Dibromomethane	0.248	0.285	0.289	0.288	0.276	0.277	0.277	5.54
47) T	Bromodichlorom...	0.461	0.599	0.601	0.607	0.579	0.586	0.572	9.65
48) T	Methyl methacr...	0.372	0.421	0.447	0.449	0.436	0.446	0.429	6.97
49) T	1,4-Dioxane	0.003	0.004	0.004	0.005	0.005	0.005	0.004	19.43
50) S	Toluene-d8		1.237	0.943	1.147	1.211	1.263	1.160	11.10
51) T	4-Methyl-2-Pen...	0.390	0.493	0.503	0.511	0.479	0.487	0.477	9.28
52) CM	Toluene	0.841	0.967	0.960	0.940	0.897	0.897	0.917	5.22#
53) T	t-1,3-Dichloro...	0.487	0.588	0.602	0.619	0.595	0.611	0.584	8.33
54) T	cis-1,3-Dichlo...	0.513	0.652	0.644	0.653	0.637	0.644	0.624	8.74
55) T	1,1,2-Trichlor...	0.323	0.365	0.371	0.367	0.344	0.351	0.354	5.10
56) T	Ethyl methacry...	0.407	0.563	0.587	0.599	0.580	0.595	0.555	13.25

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X091625W.M

57)	T	1,3-Dichloropr...	0.507	0.648	0.636	0.638	0.607	0.609	0.607	8.51
58)	T	2-Chloroethyl ...	0.094	0.212	0.210	0.272	0.280	0.292	0.227	32.65
59)	T	2-Hexanone	0.274	0.374	0.372	0.360	0.333	0.343	0.343	10.82
60)	T	Dibromochlorom...	0.321	0.414	0.431	0.435	0.421	0.422	0.407	10.49
61)	T	1,2-Dibromoethane	0.287	0.379	0.384	0.379	0.364	0.367	0.360	10.10
62)	S	4-Bromofluorob...	0.478	0.360	0.427	0.452	0.484	0.440		11.42
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.299	0.354	0.342	0.326	0.320	0.314	0.326	6.03
65)	PM	Chlorobenzene	0.998	1.182	1.177	1.178	1.139	1.142	1.136	6.18
66)	T	1,1,1,2-Tetrac...	0.327	0.404	0.402	0.414	0.404	0.402	0.392	8.26
67)	C	Ethyl Benzene	1.625	2.077	2.049	2.039	1.996	1.973	1.960	8.57#
68)	T	m/p-Xylenes	0.604	0.774	0.765	0.765	0.739	0.730	0.729	8.77
69)	T	o-Xylene	0.576	0.734	0.734	0.749	0.721	0.719	0.706	9.13
70)	T	Styrene	1.019	1.288	1.290	1.299	1.257	1.265	1.236	8.70
71)	P	Bromoform	0.221	0.293	0.301	0.313	0.312	0.317	0.293	12.37
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.124	3.907	3.986	4.047	3.907	3.839	3.801	8.94
74)	T	N-amyl acetate	1.277	1.726	1.851	1.862	1.834	1.850	1.733	13.21
75)	P	1,1,2,2-Tetrac...	0.965	1.182	1.203	1.225	1.152	1.173	1.150	8.16
76)	T	1,2,3-Trichlor...	0.847	1.023	1.073	1.128	0.939	1.064	1.012	10.13
77)	T	Bromobenzene	0.760	0.964	0.992	0.988	0.960	0.954	0.936	9.38
78)	T	n-propylbenzene	3.680	4.667	4.739	4.792	4.581	4.504	4.494	9.17
79)	T	2-Chlorotoluene	2.276	2.859	2.935	2.915	2.798	2.730	2.752	8.91
80)	T	1,3,5-Trimethy...	2.458	3.235	3.311	3.343	3.221	3.171	3.123	10.62
81)	T	trans-1,4-Dich...	0.347	0.381	0.414	0.420	0.424	0.397		8.31
82)	T	4-Chlorotoluene	2.754	3.347	3.410	3.433	3.285	3.275	3.251	7.74
83)	T	tert-Butylbenzene	2.800	3.223	3.346	3.359	3.240	3.215	3.197	6.39
84)	T	1,2,4-Trimethy...	2.522	3.302	3.381	3.344	3.234	3.216	3.166	10.17
85)	T	sec-Butylbenzene	3.110	4.001	3.945	4.028	3.867	3.834	3.797	9.09
86)	T	p-Isopropyltol...	2.660	3.372	3.371	3.419	3.263	3.205	3.215	8.81
87)	T	1,3-Dichlorobe...	1.462	1.800	1.829	1.817	1.768	1.758	1.739	7.95
88)	T	1,4-Dichlorobe...	1.570	1.890	1.868	1.832	1.767	1.783	1.785	6.47
89)	T	n-Butylbenzene	2.429	3.070	3.114	3.139	3.098	2.999	2.975	9.14
90)	T	Hexachloroethane	0.434	0.565	0.574	0.593	0.606	0.614	0.564	11.81
91)	T	1,2-Dichlorobe...	1.359	1.691	1.757	1.746	1.696	1.692	1.657	8.97
92)	T	1,2-Dibromo-3-...	0.173	0.218	0.242	0.254	0.250	0.260	0.233	14.07
93)	T	1,2,4-Trichlor...	0.831	1.099	1.107	1.156	1.140	1.126	1.077	11.34
94)	T	Hexachlorobuta...	0.341	0.377	0.361	0.384	0.377	0.354	0.366	4.51
95)	T	Naphthalene	2.503	3.153	3.410	3.539	3.496	3.571	3.279	12.46
96)	T	1,2,3-Trichlor...	0.753	0.986	1.031	1.088	1.078	1.073	1.002	12.72

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047585.D
 Acq On : 16 Sep 2025 09:23
 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 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:09:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.537	168	246348	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	451502	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	410953	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	201976	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	78 - 117	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	92 - 112	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	83 - 123	Recovery	=	0.000%#

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.179	85	2201	0.863	ug/l	96
3) Chloromethane	1.300	50	3006	0.897	ug/l #	82
4) Vinyl Chloride	1.386	62	2818	0.859	ug/l	95
6) Chloroethane	1.697	64	2134	0.973	ug/l	95
7) Trichlorofluoromethane	1.898	101	4261	0.874	ug/l	88
8) Diethyl Ether	2.130	74	1831	0.919	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	2555	0.897	ug/l	93
12) 1,1-Dichloroethene	2.325	96	2594	0.886	ug/l #	80
14) Allyl chloride	2.666	41	5885	0.974	ug/l	94
15) Acrylonitrile	3.062	53	6500	4.018	ug/l	97
16) Acetone	2.380	43	8444	4.953	ug/l	99
17) Carbon Disulfide	2.520	76	7662	0.956	ug/l #	91
18) Methyl Acetate	2.703	43	3013	0.794	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	9281	0.869	ug/l #	89
20) Methylene Chloride	2.788	84	3540	0.981	ug/l	93
21) trans-1,2-Dichloroethene	3.099	96	2676	0.849	ug/l	95
22) Diisopropyl ether	3.751	45	9738	0.832	ug/l #	87
23) Vinyl Acetate	3.715	43	37962	4.052	ug/l	97
24) 1,1-Dichloroethane	3.611	63	5372	0.863	ug/l	95
25) 2-Butanone	4.550	43	9105	4.281	ug/l #	83
26) 2,2-Dichloropropane	4.477	77	4657	0.901	ug/l	77
27) cis-1,2-Dichloroethene	4.477	96	3440	0.891	ug/l	96
28) Bromochloromethane	4.879	49	2251	0.829	ug/l #	93
29) Tetrahydrofuran	4.995	42	5210	4.072	ug/l	98
30) Chloroform	5.074	83	5093	0.810	ug/l	86
32) 1,1,1-Trichloroethane	5.373	97	4439	0.832	ug/l #	47
36) 1,1-Dichloropropene	5.672	75	4373	0.988	ug/l #	69
37) Ethyl Acetate	4.702	43	3873	0.818	ug/l #	91
38) Carbon Tetrachloride	5.659	117	4349	0.905	ug/l	95
39) Methylcyclohexane	7.360	83	4428	0.882	ug/l	94
40) Benzene	6.025	78	12012	0.894	ug/l	98
41) Methacrylonitrile	4.903	41	2128	0.870	ug/l #	63
42) 1,2-Dichloroethane	6.062	62	4634	0.906	ug/l	80
43) Isopropyl Acetate	6.318	43	6784	0.873	ug/l	94
44) Trichloroethene	7.110	130	2677	0.824	ug/l	78
45) 1,2-Dichloropropane	7.415	63	2945	0.856	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047585.D
 Acq On : 16 Sep 2025 09:23
 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 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:09:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.574	93	2240	0.895	ug/l	94
47) Bromodichloromethane	7.805	83	4167	0.806	ug/l #	92
48) Methyl methacrylate	7.683	41	3355	0.867	ug/l #	87
49) 1,4-Dioxane	7.653	88	488m	12.477	ug/l	
51) 4-Methyl-2-Pentanone	8.555	43	17596	4.085	ug/l	95
52) Toluene	8.708	92	7595	0.917	ug/l	92
53) t-1,3-Dichloropropene	8.964	75	4398	0.834	ug/l #	82
54) cis-1,3-Dichloropropene	8.354	75	4635	0.823	ug/l #	76
55) 1,1,2-Trichloroethane	9.134	97	2918	0.914	ug/l	95
56) Ethyl methacrylate	9.104	69	3679	0.734	ug/l #	84
57) 1,3-Dichloropropane	9.293	76	4580	0.835	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.226	63	4222	9.665	ug/l	99
59) 2-Hexanone	9.415	43	12385	4.003	ug/l	98
60) Dibromochloromethane	9.506	129	2903	0.789	ug/l	87
61) 1,2-Dibromoethane	9.592	107	2596	0.798	ug/l	96
64) Tetrachloroethene	9.256	164	2457	0.917	ug/l	83
65) Chlorobenzene	10.061	112	8202	0.879	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.140	131	2684	0.833	ug/l #	66
67) Ethyl Benzene	10.177	91	13360	0.829	ug/l	98
68) m/p-Xylenes	10.287	106	9922	1.655	ug/l	99
69) o-Xylene	10.622	106	4734	0.816	ug/l	94
70) Styrene	10.640	104	8377	0.824	ug/l	96
71) Bromoform	10.787	173	1816	0.755	ug/l #	94
73) Isopropylbenzene	10.945	105	12618	0.822	ug/l	96
74) N-amyl acetate	10.829	43	5159	0.737	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.195	83	3900	0.839	ug/l	96
76) 1,2,3-Trichloropropane	11.225	75	3421m	0.816	ug/l	
77) Bromobenzene	11.183	156	3069	0.811	ug/l	98
78) n-propylbenzene	11.286	91	14866	0.819	ug/l	99
79) 2-Chlorotoluene	11.347	91	9195	0.827	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	9929	0.787	ug/l	99
82) 4-Chlorotoluene	11.439	91	11123	0.847	ug/l	95
83) tert-Butylbenzene	11.695	119	11311	0.876	ug/l	97
84) 1,2,4-Trimethylbenzene	11.731	105	10187	0.796	ug/l	100
85) sec-Butylbenzene	11.872	105	12561	0.819	ug/l	99
86) p-Isopropyltoluene	11.994	119	10744	0.827	ug/l	92
87) 1,3-Dichlorobenzene	11.951	146	5907	0.841	ug/l	98
88) 1,4-Dichlorobenzene	12.024	146	6341m	0.880	ug/l	
89) n-Butylbenzene	12.317	91	9811	0.816	ug/l	97
90) Hexachloroethane	12.524	117	1752	0.768	ug/l	97
91) 1,2-Dichlorobenzene	12.317	146	5491	0.820	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.926	75	698	0.742	ug/l	93
93) 1,2,4-Trichlorobenzene	13.567	180	3358	0.772	ug/l	95
94) Hexachlorobutadiene	13.707	225	1378	0.933	ug/l	93
95) Naphthalene	13.756	128	10112	0.763	ug/l	98
96) 1,2,3-Trichlorobenzene	13.944	180	3043	0.752	ug/l	98

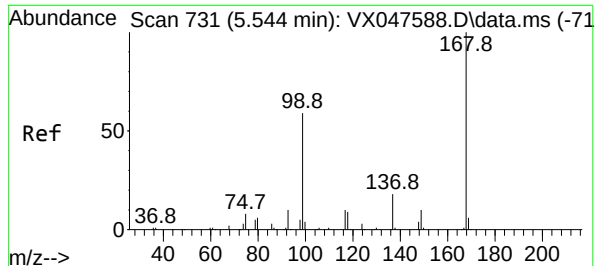
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025





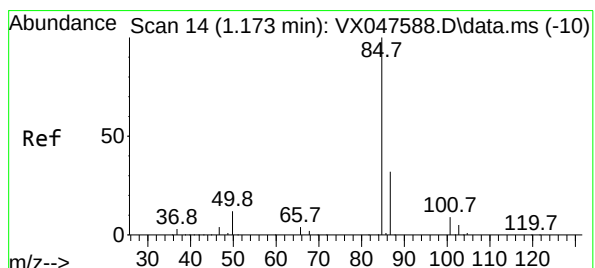
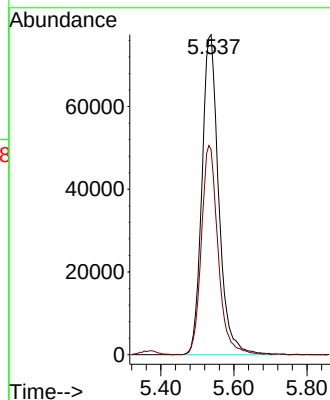
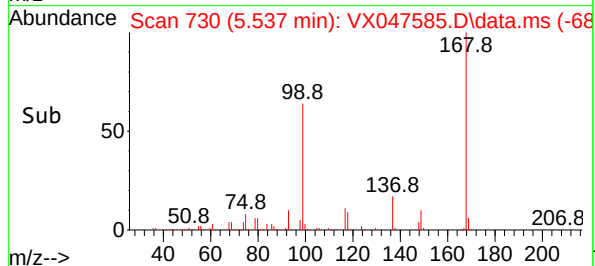
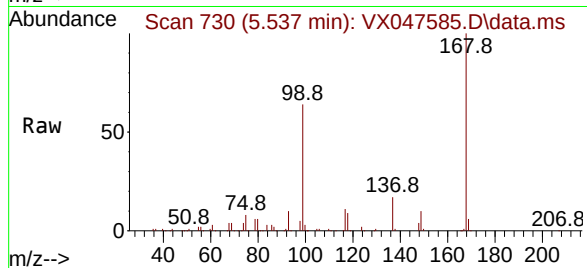
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.007 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 24634
Ion Ratio Lower Upper
168 100
99 64.0 48.8 73.2

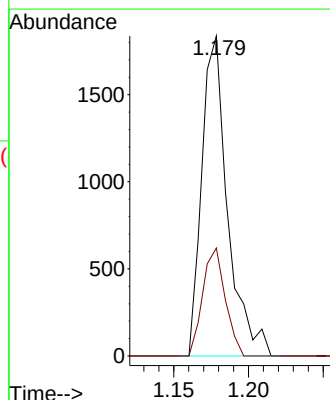
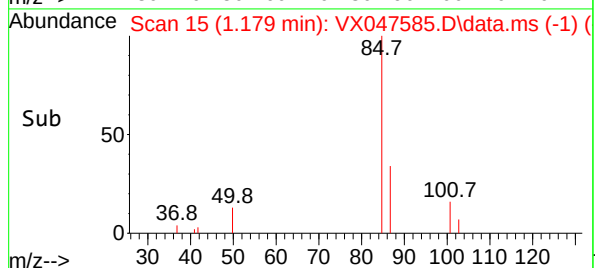
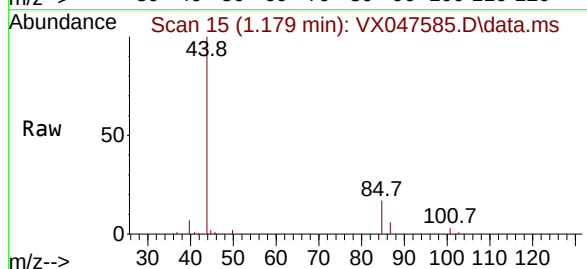
Manual Integrations
APPROVED

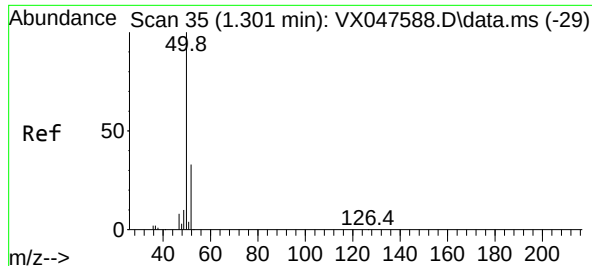
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#2
Dichlorodifluoromethane
Concen: 0.863 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 85 Resp: 2201
Ion Ratio Lower Upper
85 100
87 33.8 15.8 47.3





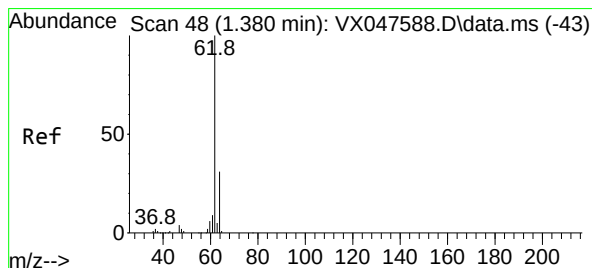
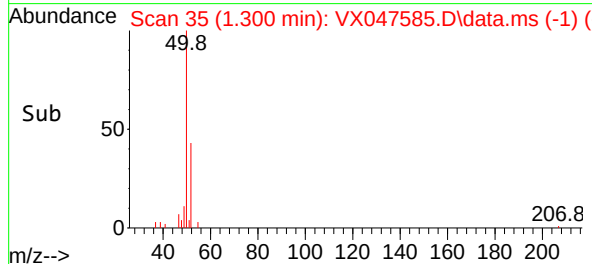
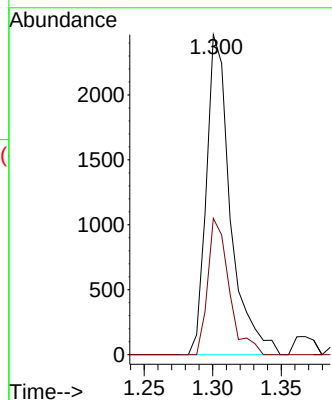
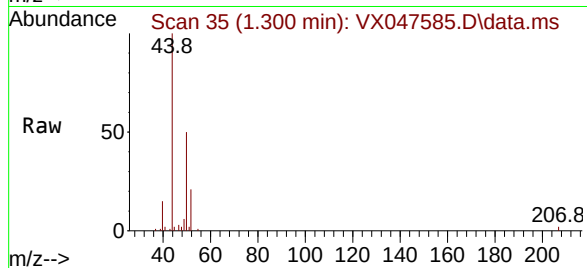
#3
Chloromethane
Concen: 0.897 ug/l
RT: 1.300 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 3000
Ion Ratio Lower Upper
50 100
52 42.6 26.1 39.1

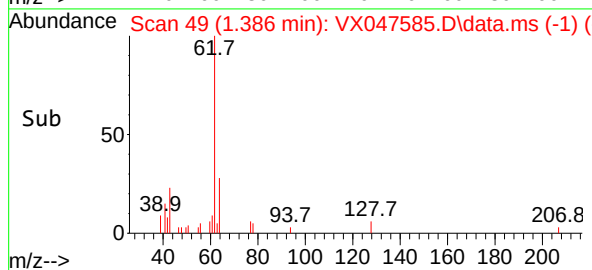
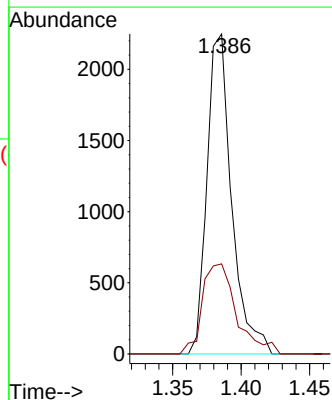
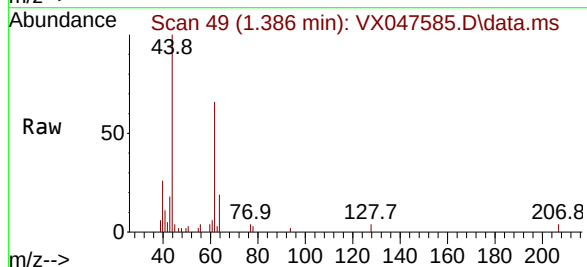
Manual Integrations
APPROVED

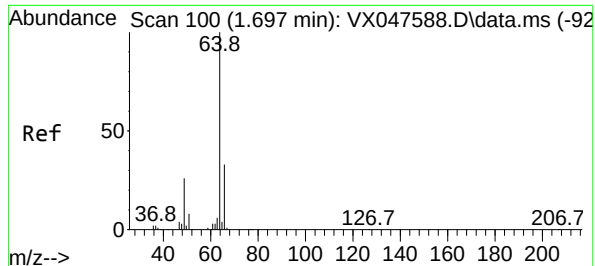
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#4
Vinyl Chloride
Concen: 0.859 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

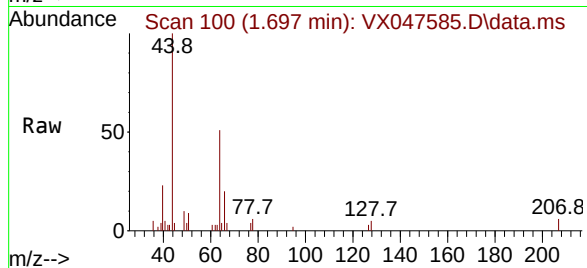
Tgt Ion: 62 Resp: 2818
Ion Ratio Lower Upper
62 100
64 28.2 24.9 37.3





#6
Chloroethane
Concen: 0.973 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

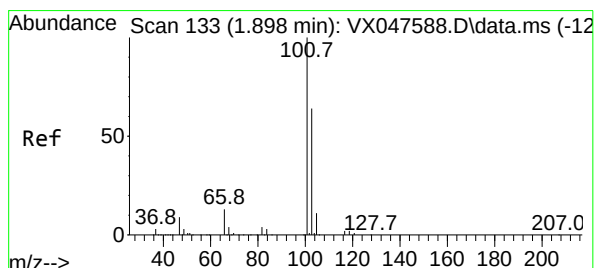
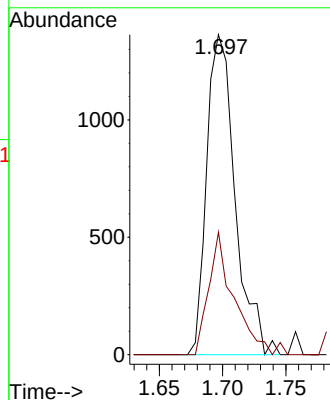
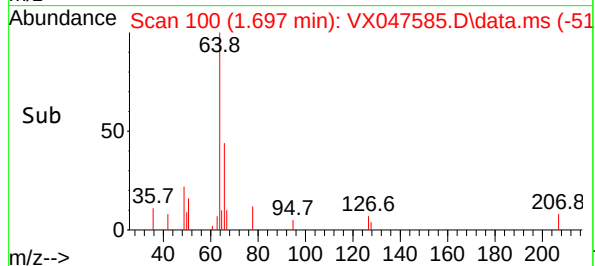
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



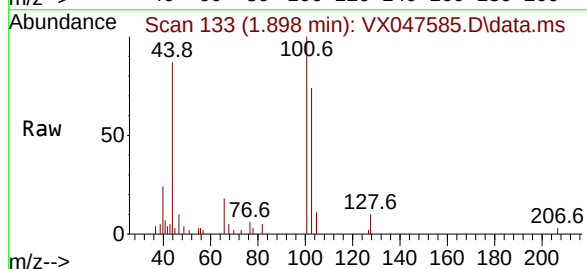
Tgt Ion: 64 Resp: 2134
Ion Ratio Lower Upper
64 100
66 35.4 26.1 39.1

Manual Integrations
APPROVED

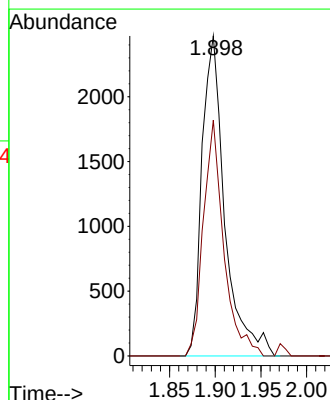
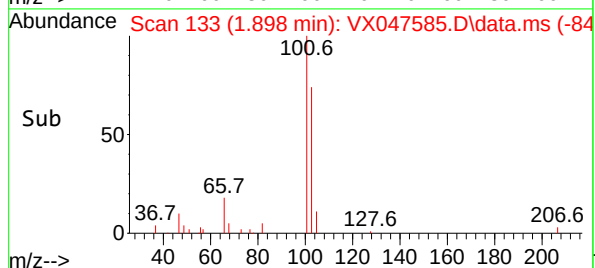
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

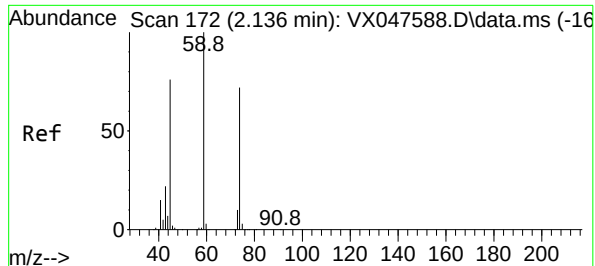


#7
Trichlorofluoromethane
Concen: 0.874 ug/l
RT: 1.898 min Scan# 133
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23



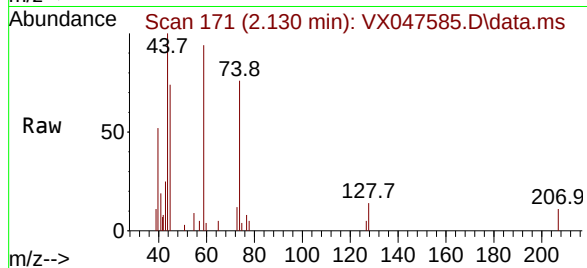
Tgt Ion:101 Resp: 4261
Ion Ratio Lower Upper
101 100
103 73.7 51.4 77.2





#8
Diethyl Ether
Concen: 0.919 ug/l
RT: 2.130 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

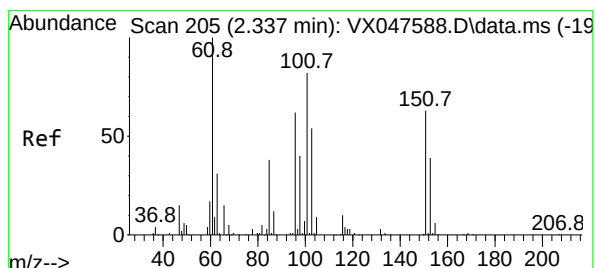
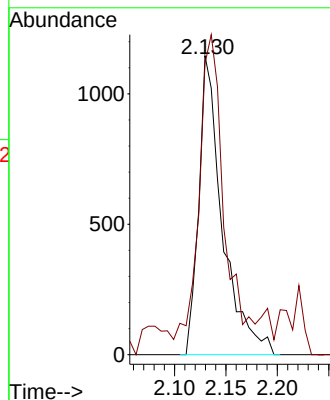
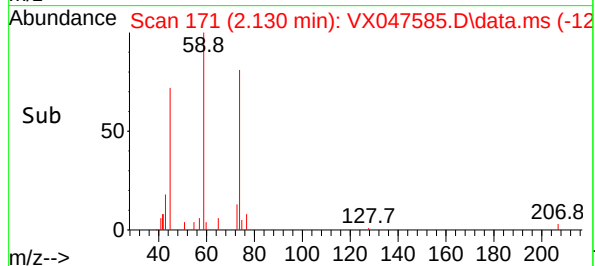
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



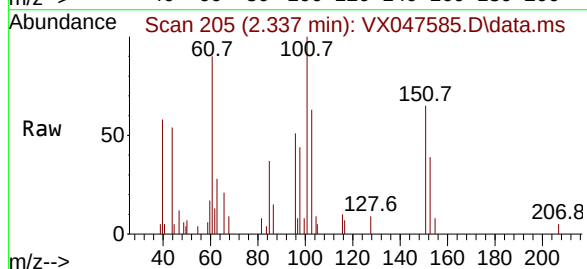
Tgt Ion: 74 Resp: 183
Ion Ratio Lower Upper
74 100
45 102.2 52.3 156.8

Manual Integrations
APPROVED

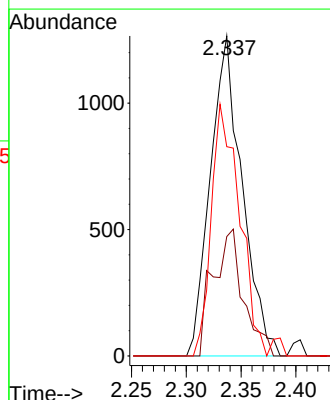
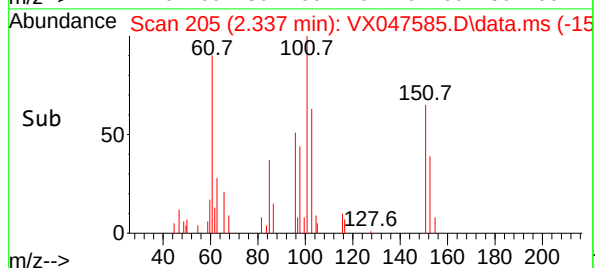
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

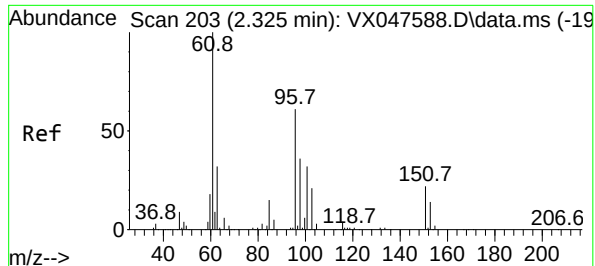


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.897 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23



Tgt Ion:101 Resp: 2555
Ion Ratio Lower Upper
101 100
85 37.8 35.5 53.3
151 69.9 59.4 89.0





#12

1,1-Dichloroethene

Concen: 0.886 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

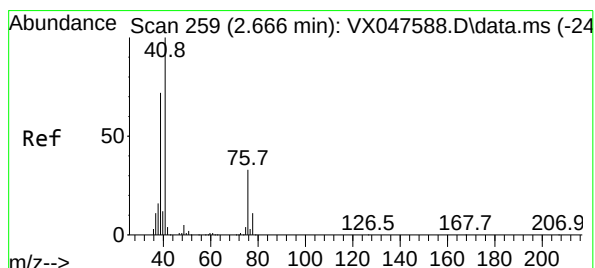
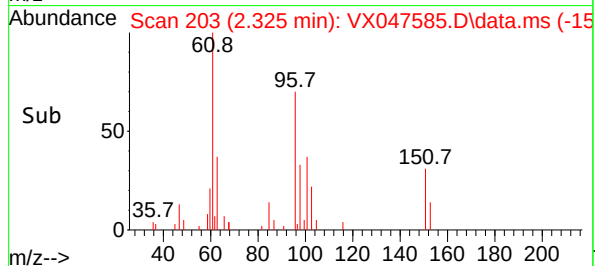
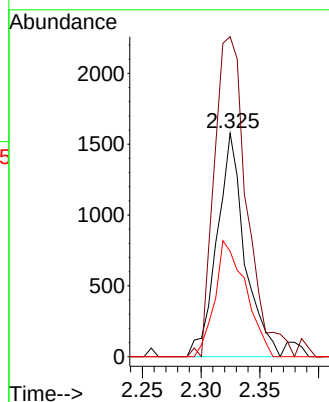
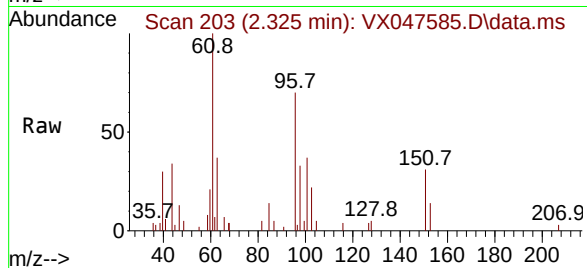
Tgt Ion:	96	Resp:	2594
Ion	Ratio	Lower	Upper
96	100		
61	137.3	131.0	196.6
98	45.2	47.7	71.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#14

Allyl chloride

Concen: 0.974 ug/l

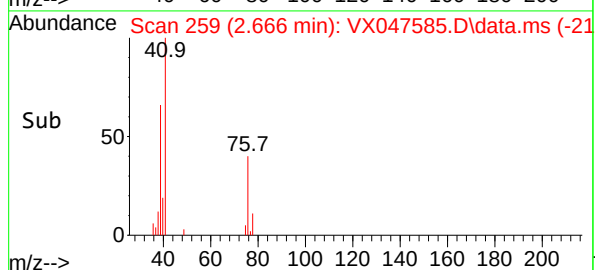
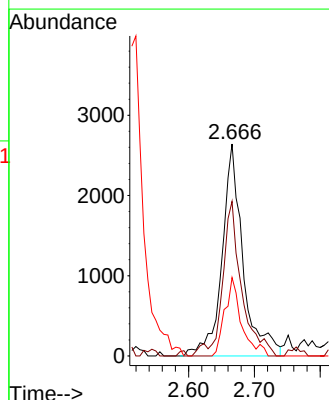
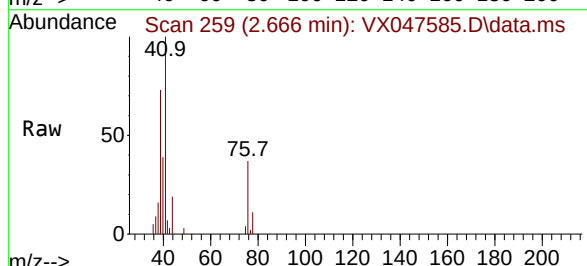
RT: 2.666 min Scan# 259

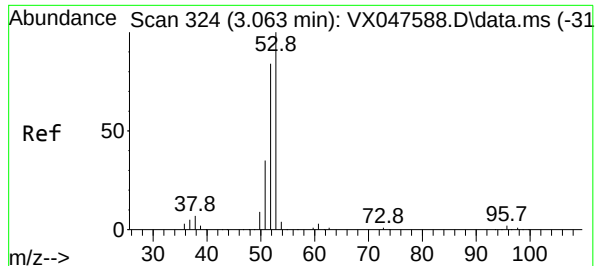
Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion:	41	Resp:	5885
Ion	Ratio	Lower	Upper
41	100		
39	63.3	54.7	82.1
76	29.3	25.7	38.5





#15

Acrylonitrile

Concen: 4.018 ug/l

RT: 3.062 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

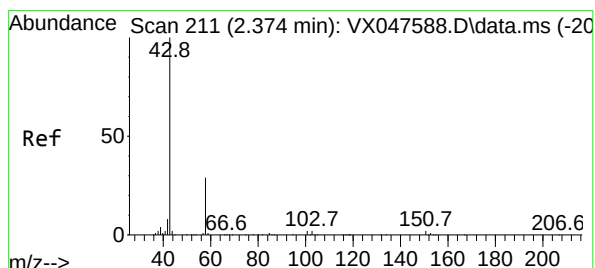
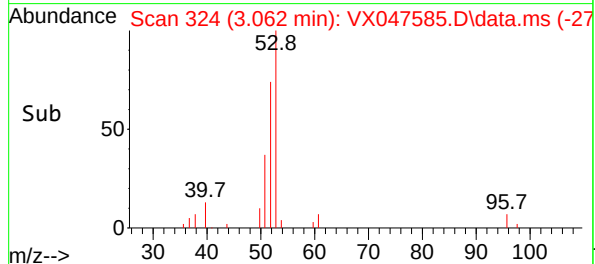
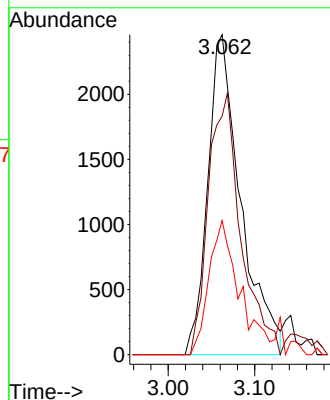
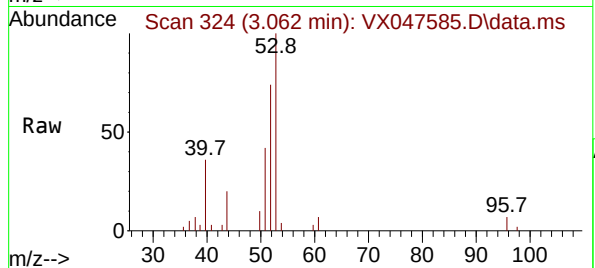
VSTDIC001

Tgt Ion:	53	Resp:	6500
Ion	Ratio	Lower	Upper
53	100		
52	80.3	66.4	99.6
51	38.7	29.5	44.3

Manual Integrations
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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#16

Acetone

Concen: 4.953 ug/l

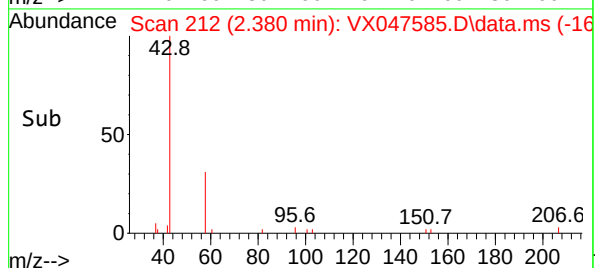
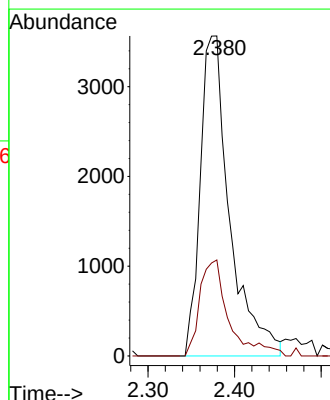
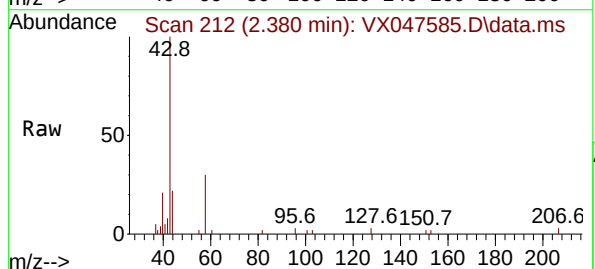
RT: 2.380 min Scan# 212

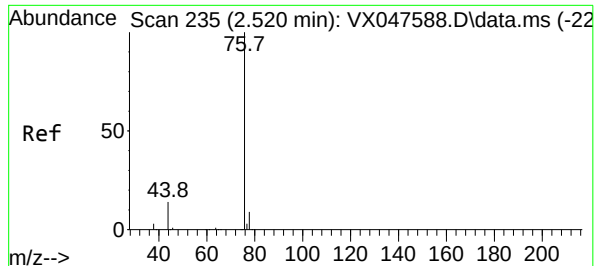
Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion:	43	Resp:	8444
Ion	Ratio	Lower	Upper
43	100		
58	30.0	23.4	35.0





#17

Carbon Disulfide

Concen: 0.956 ug/l

RT: 2.520 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 76 Resp: 7662

Ion Ratio Lower Upper

76 100

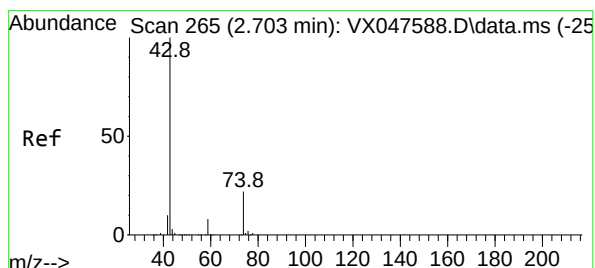
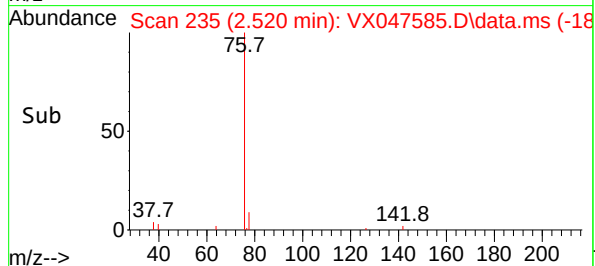
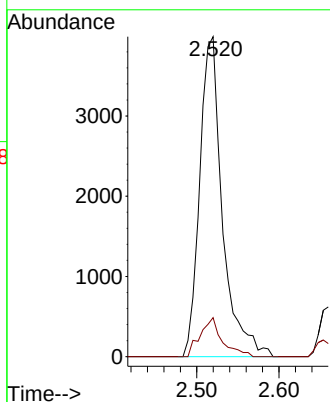
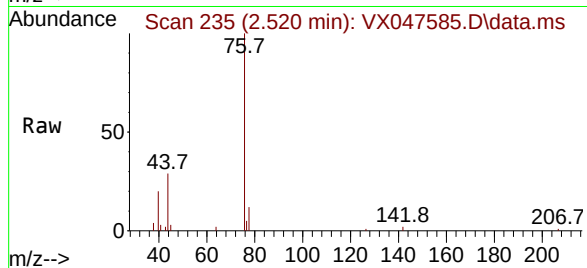
78 11.6 6.8 10.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#18

Methyl Acetate

Concen: 0.794 ug/l

RT: 2.703 min Scan# 265

Delta R.T. -0.000 min

Lab File: VX047585.D

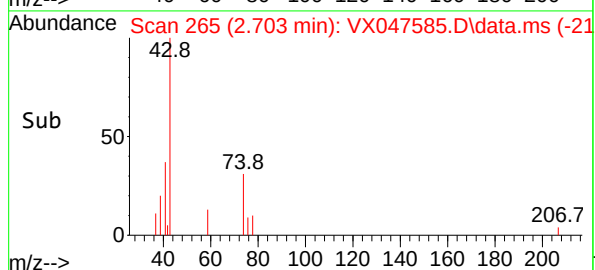
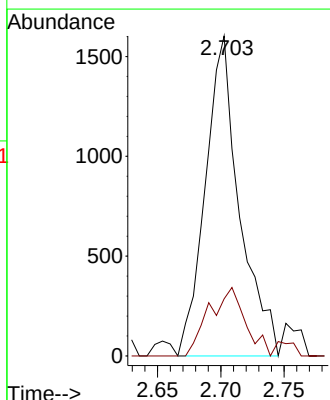
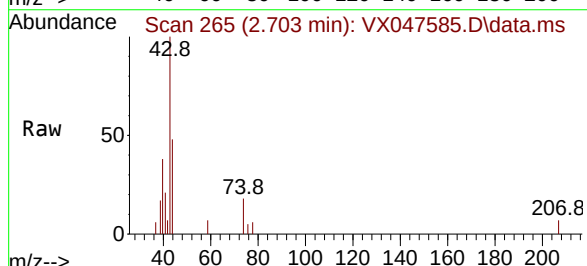
Acq: 16 Sep 2025 09:23

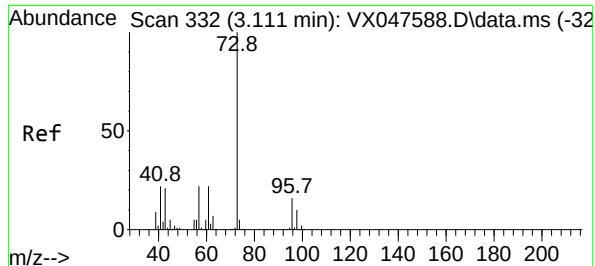
Tgt Ion: 43 Resp: 3013

Ion Ratio Lower Upper

43 100

74 22.7 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 0.869 ug/l

RT: 3.111 min Scan# 332

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 73 Resp: 928

Ion Ratio Lower Upper

73 100

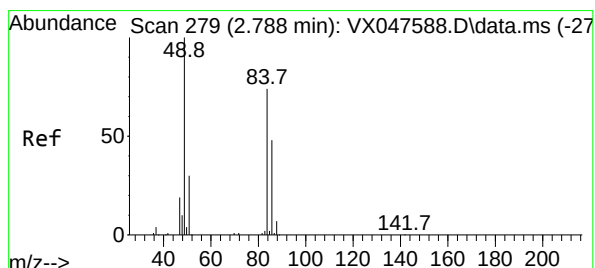
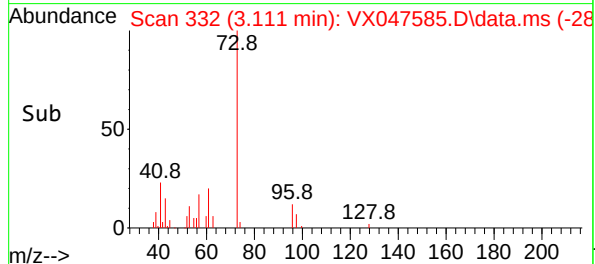
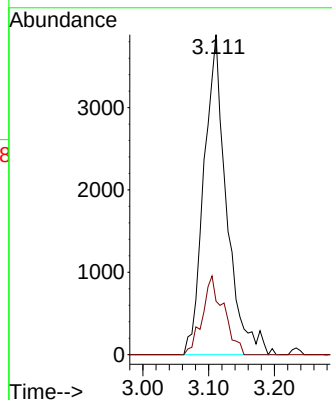
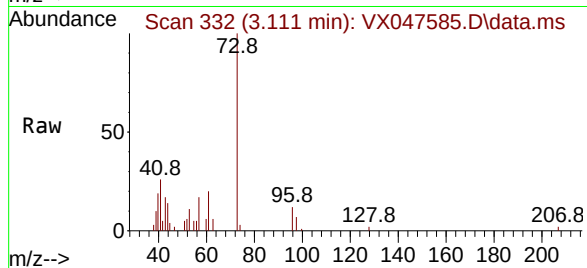
57 16.7 17.4 26.2

Manual Integrations

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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#20

Methylene Chloride

Concen: 0.981 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion: 84 Resp: 3540

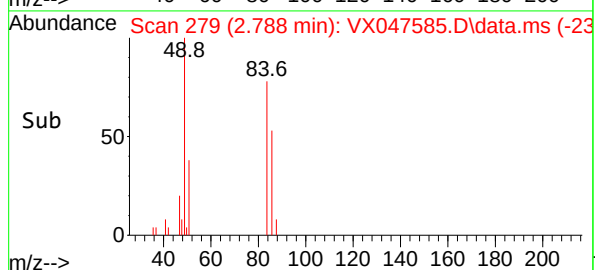
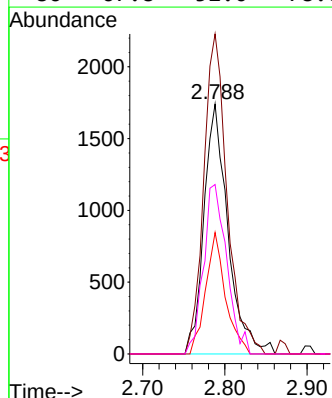
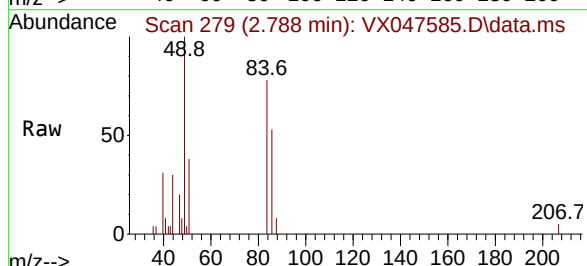
Ion Ratio Lower Upper

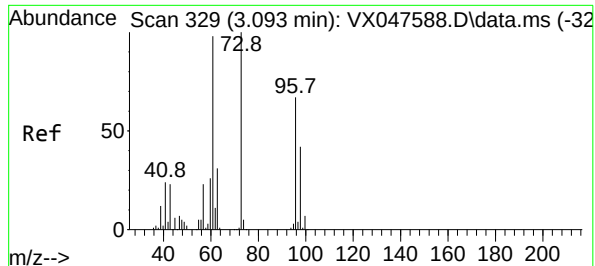
84 100

49 128.0 108.6 162.8

51 48.6 32.6 48.8

86 67.8 52.0 78.0





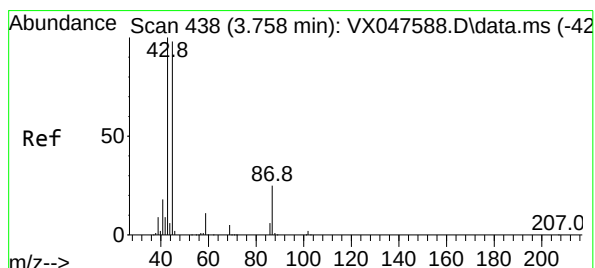
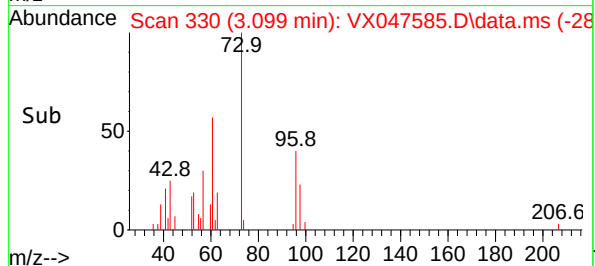
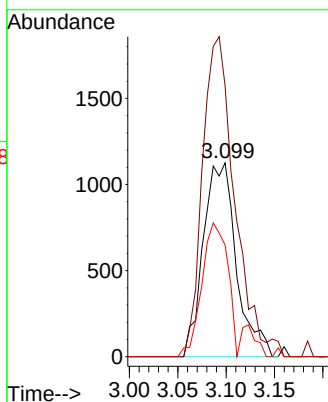
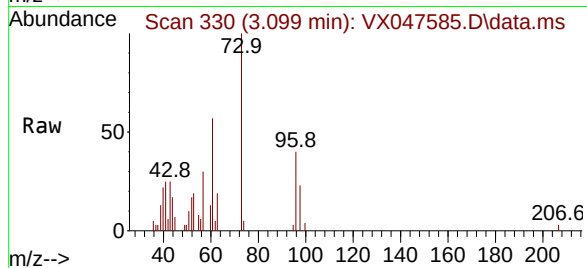
#21
trans-1,2-Dichloroethene
Concen: 0.849 ug/l
RT: 3.099 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 2670
Ion Ratio Lower Upper
96 100
61 139.9 116.2 174.2
98 57.6 49.3 73.9

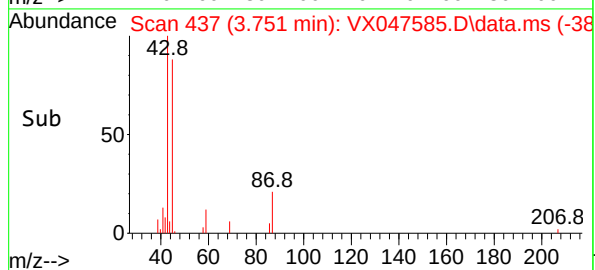
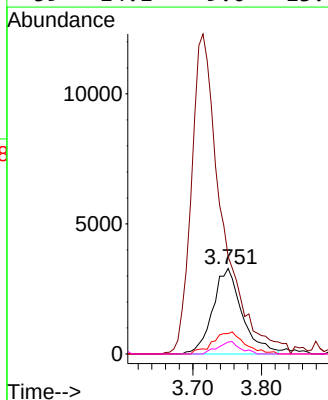
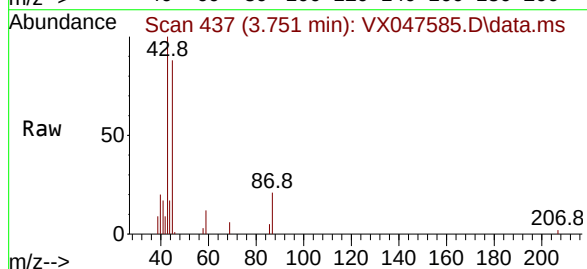
Manual Integrations
APPROVED

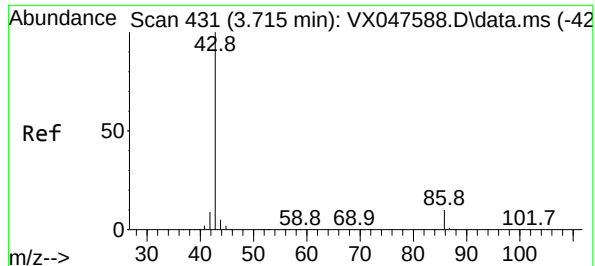
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#22
Diisopropyl ether
Concen: 0.832 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 45 Resp: 9738
Ion Ratio Lower Upper
45 100
43 117.9 81.0 121.4
87 23.7 20.3 30.5
59 14.1 9.0 13.4





#23

Vinyl Acetate

Concen: 4.052 ug/l

RT: 3.715 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 3796

Ion Ratio Lower Upper

43 100

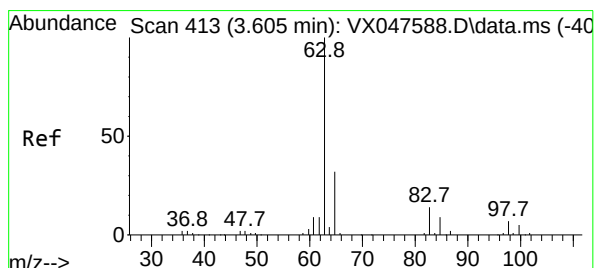
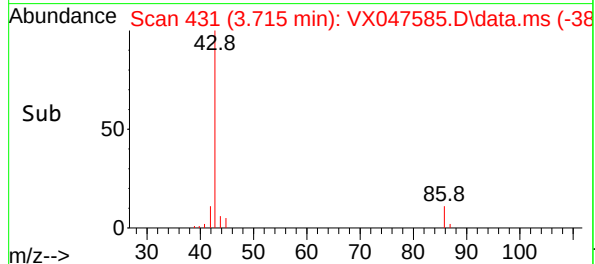
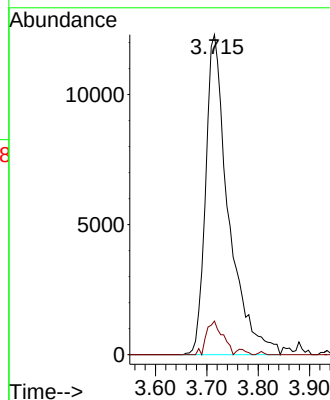
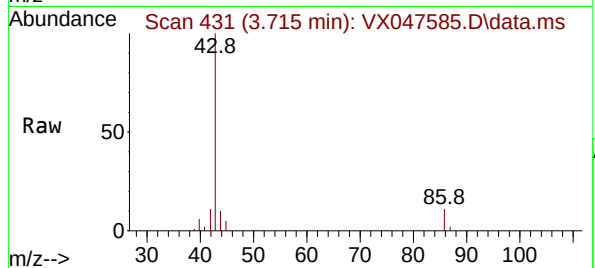
86 10.9 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#24

1,1-Dichloroethane

Concen: 0.863 ug/l

RT: 3.611 min Scan# 414

Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

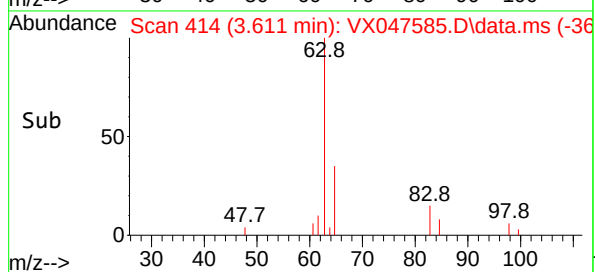
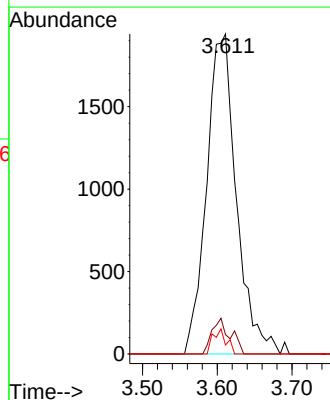
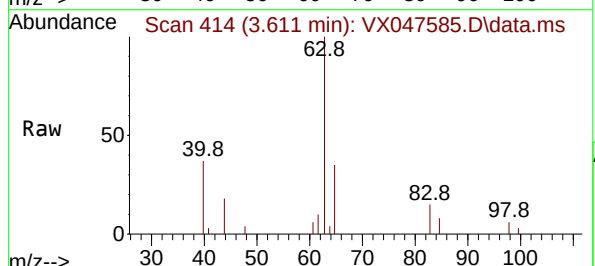
Tgt Ion: 63 Resp: 5372

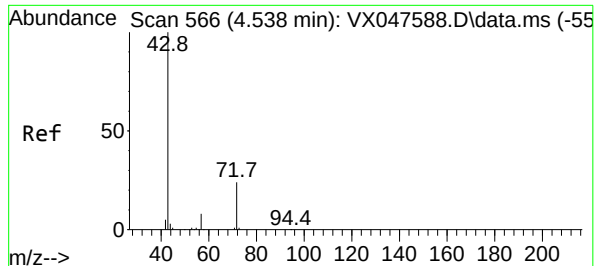
Ion Ratio Lower Upper

63 100

98 6.1 3.8 11.2

100 2.8 2.3 6.9





#25

2-Butanone

Concen: 4.281 ug/l

RT: 4.550 min Scan# 5

Delta R.T. 0.012 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 910

Ion Ratio Lower Upper

43 100

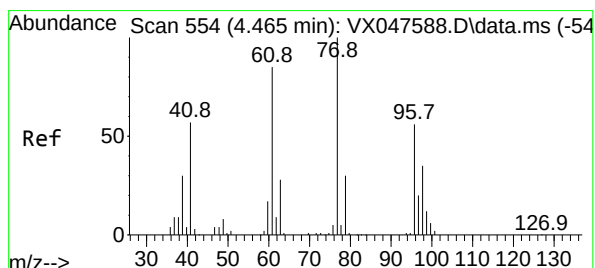
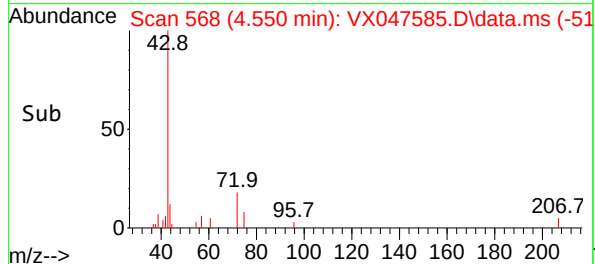
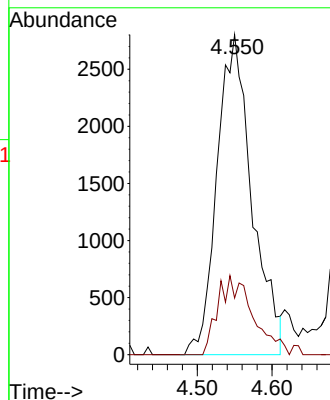
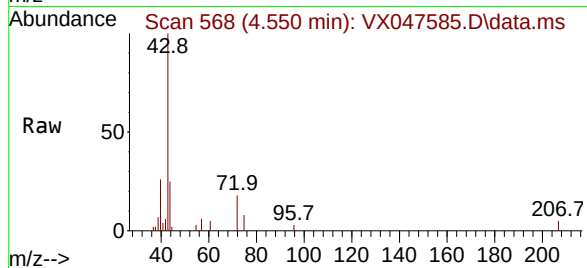
72 16.3 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#26

2,2-Dichloropropane

Concen: 0.901 ug/l

RT: 4.477 min Scan# 556

Delta R.T. 0.012 min

Lab File: VX047585.D

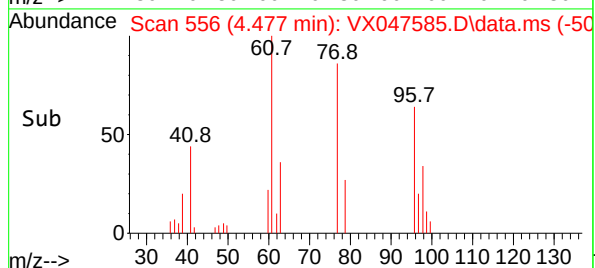
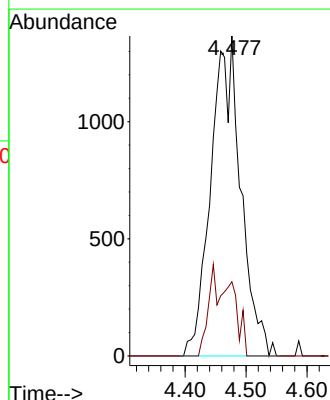
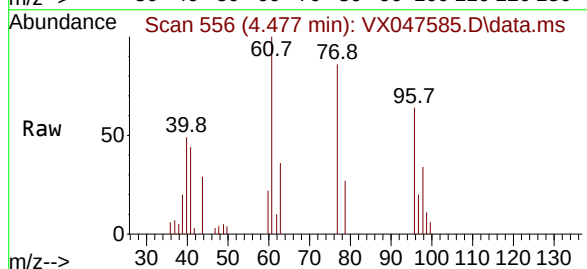
Acq: 16 Sep 2025 09:23

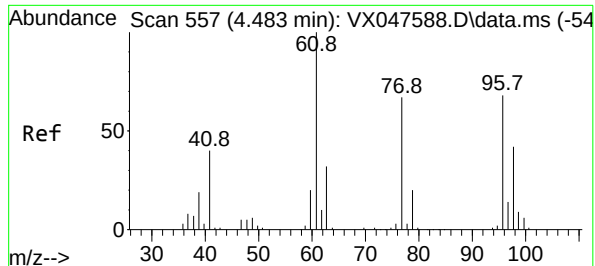
Tgt Ion: 77 Resp: 4657

Ion Ratio Lower Upper

77 100

97 11.0 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 0.891 ug/l

RT: 4.477 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

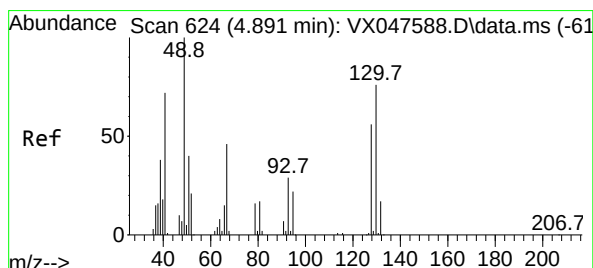
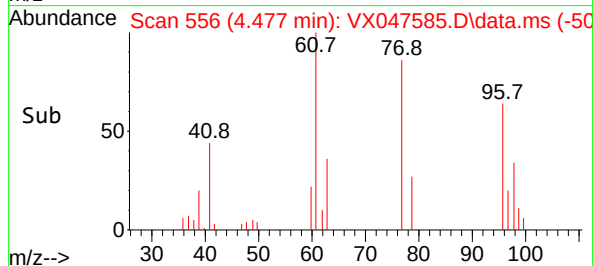
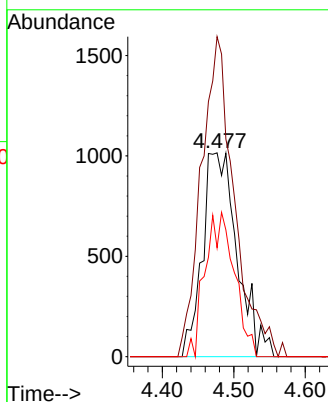
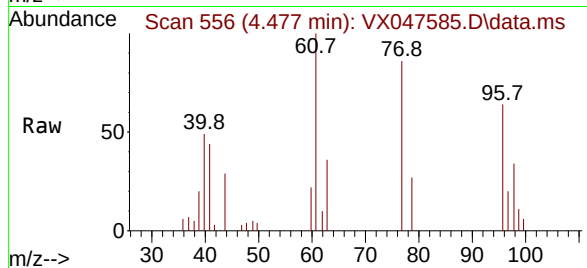
VSTDICC001

Tgt Ion:	96	Resp:	3440
Ion	Ratio	Lower	Upper
96	100		
61	147.4	0.0	303.2
98	59.4	0.0	127.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#28

Bromochloromethane

Concen: 0.829 ug/l

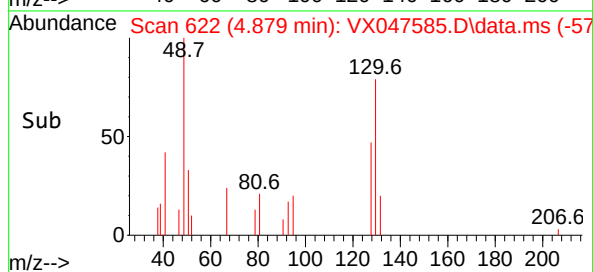
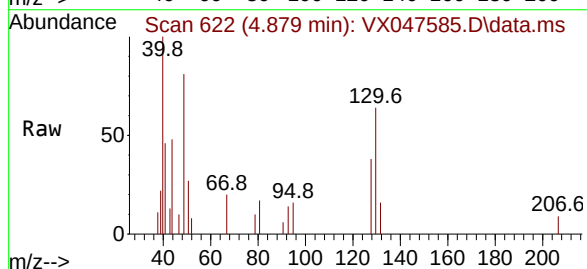
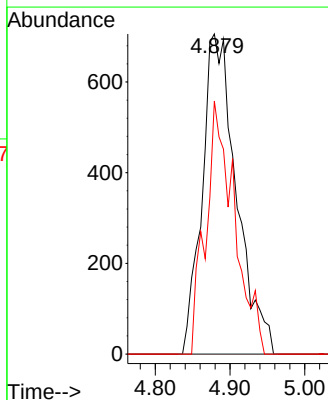
RT: 4.879 min Scan# 622

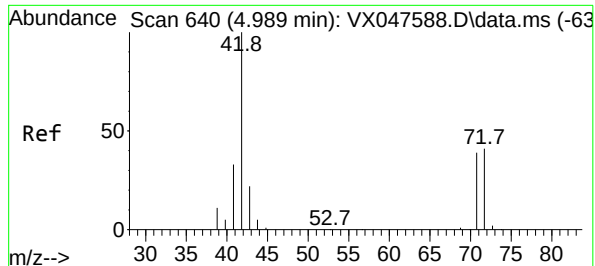
Delta R.T. -0.012 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion:	49	Resp:	2251
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.2
130	66.2	57.8	86.8





#29

Tetrahydrofuran

Concen: 4.072 ug/l

RT: 4.995 min Scan# 640

Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

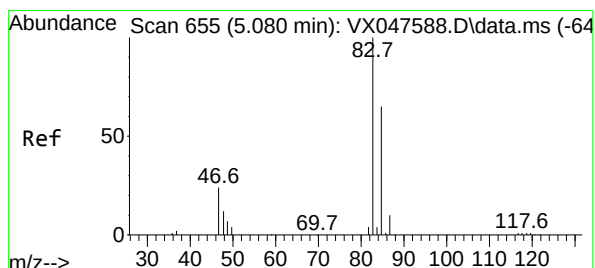
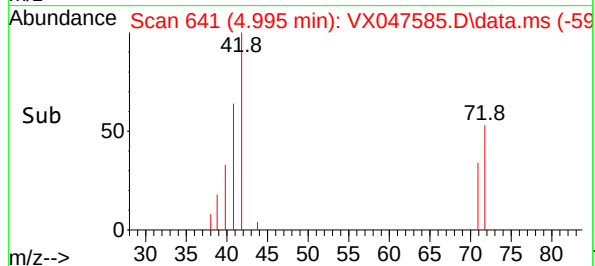
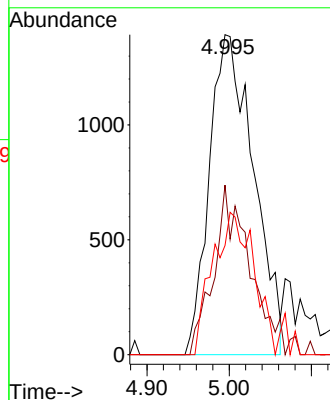
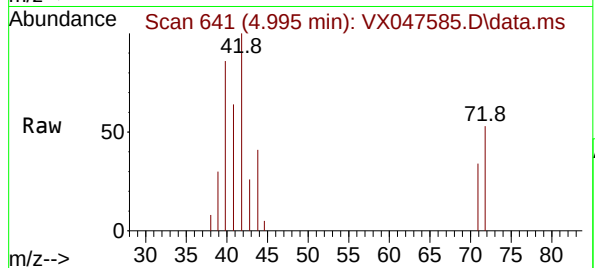
VSTDIC001

Tgt Ion:	42	Resp:	5210
Ion	Ratio	Lower	Upper
42	100		
72	44.1	34.2	51.2
71	41.3	31.9	47.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

Chloroform

Concen: 0.810 ug/l

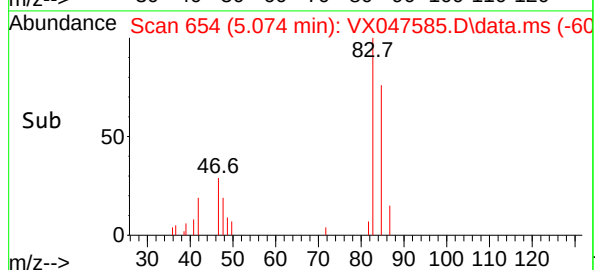
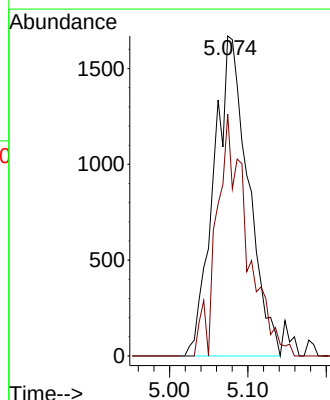
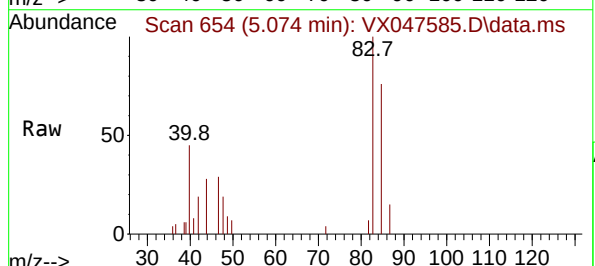
RT: 5.074 min Scan# 654

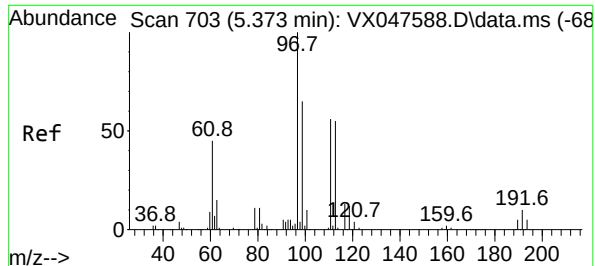
Delta R.T. -0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion:	83	Resp:	5093
Ion	Ratio	Lower	Upper
83	100		
85	75.6	51.8	77.6





#32

1,1,1-Trichloroethane

Concen: 0.832 ug/l

RT: 5.373 min Scan# 70

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

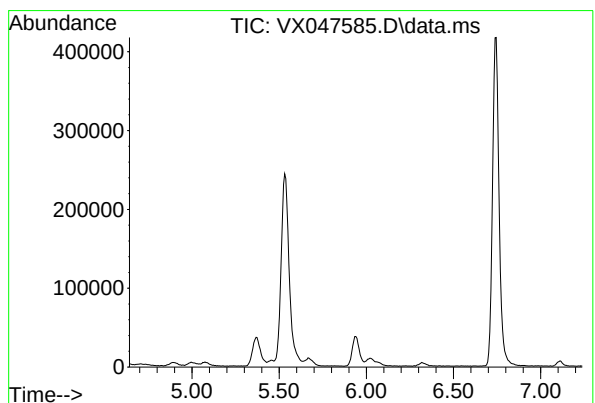
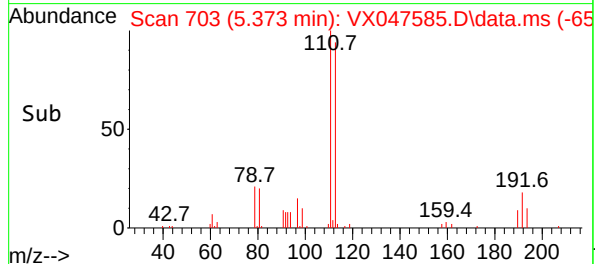
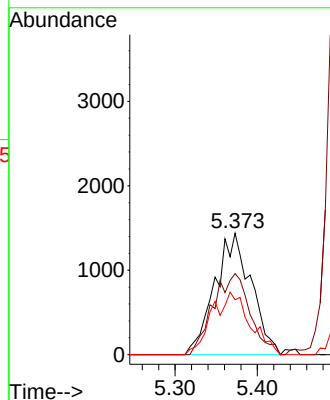
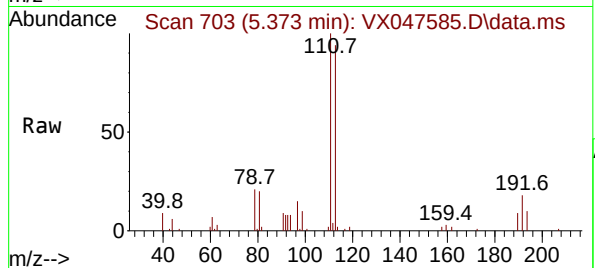
Tgt Ion:	97	Resp:	4439
Ion	Ratio	Lower	Upper
97	100		
99	0.0	50.6	76.0
61	36.2	35.8	53.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 5.94 min

Lab File: VX047585.D

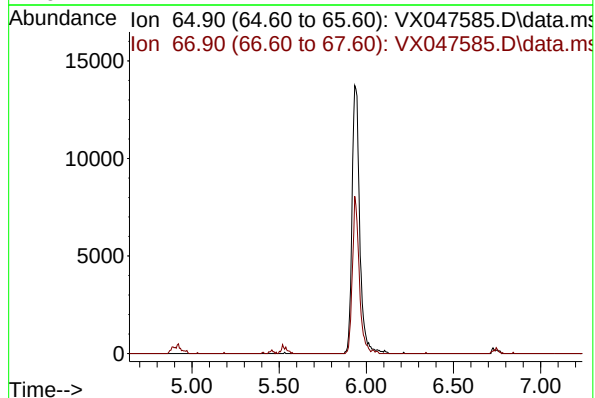
Acq: 16 Sep 2025 09:23

Tgt Ion: 65

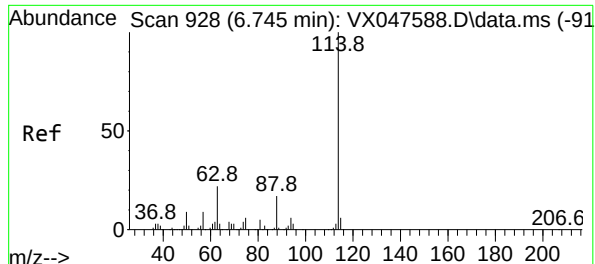
Sig Exp Ratio

65 100

67 51.5



Ion 66.90 (66.60 to 67.60): VX047585.D\data.ms



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:114 Resp: 45150

Ion Ratio Lower Upper

114 100

63 22.8 0.0 44.0

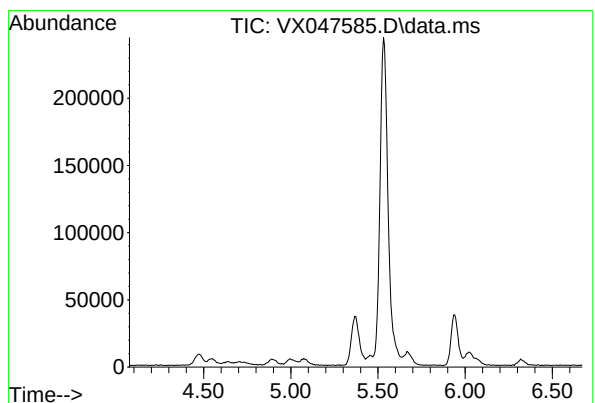
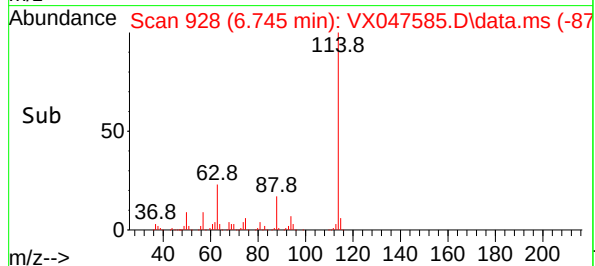
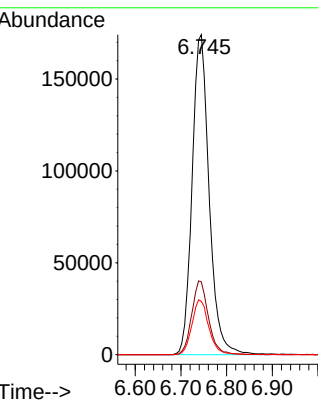
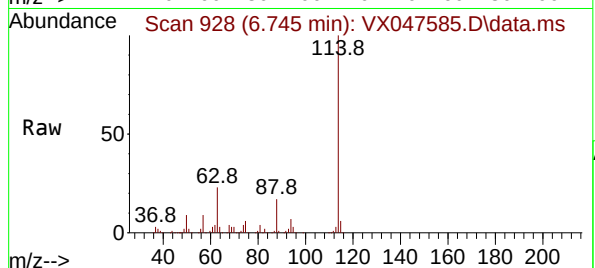
88 16.6 0.0 34.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 5.37 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

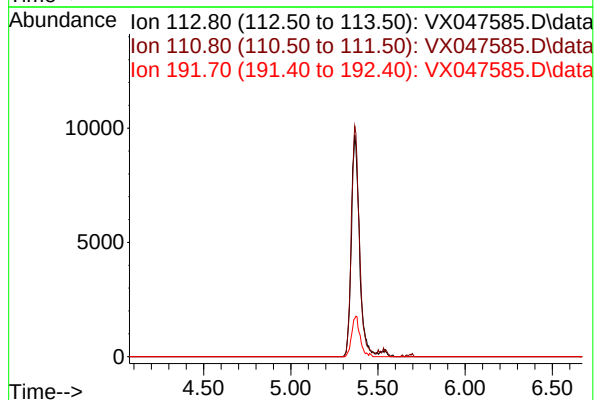
Tgt Ion: 113

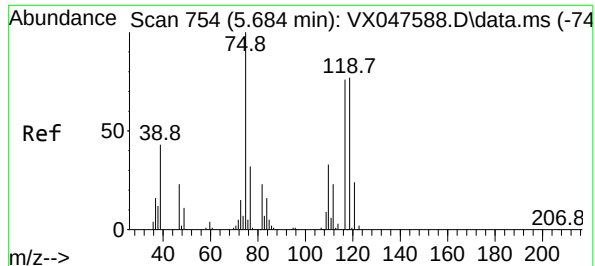
Sig Exp Ratio

113 100

111 101.1

192 17.8





#36

1,1-Dichloropropene

Concen: 0.988 ug/l

RT: 5.672 min Scan# 752

Delta R.T. -0.012 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 4373

Ion Ratio Lower Upper

75 100

110 0.0 16.7 50.1#

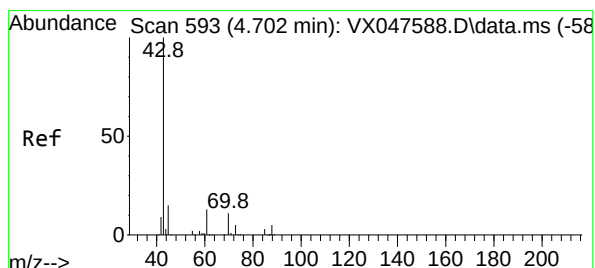
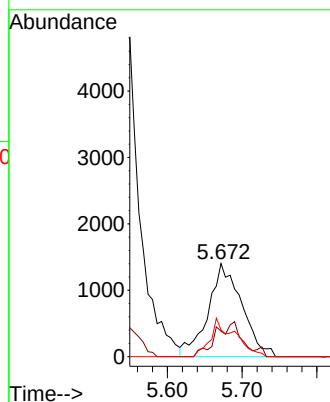
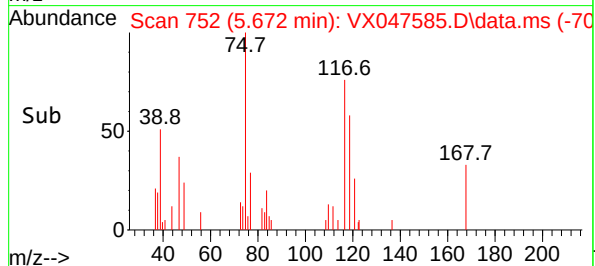
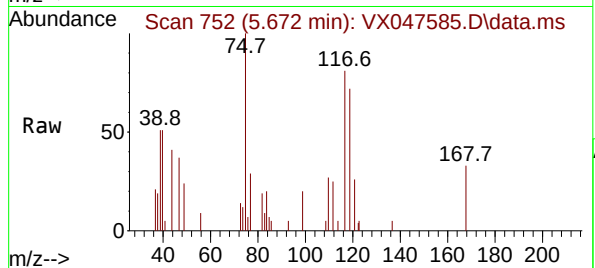
77 30.0 24.3 36.5#

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#37

Ethyl Acetate

Concen: 0.818 ug/l

RT: 4.702 min Scan# 593

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

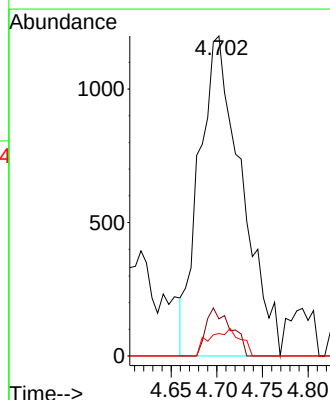
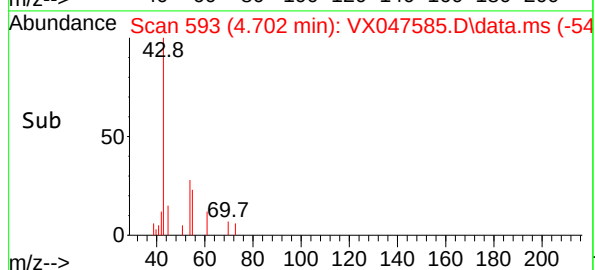
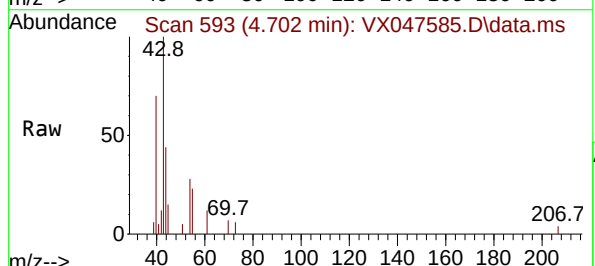
Tgt Ion: 43 Resp: 3873

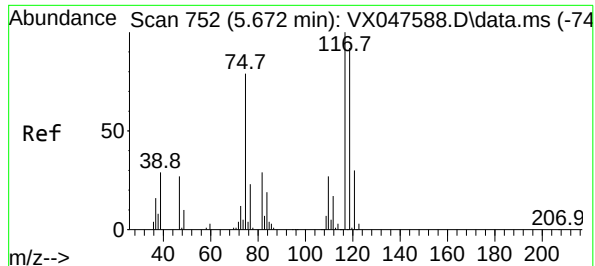
Ion Ratio Lower Upper

43 100

61 8.9 9.8 14.8#

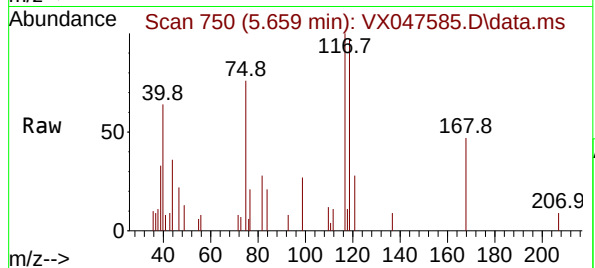
70 6.2 7.9 11.9#





#38
Carbon Tetrachloride
Concen: 0.905 ug/l
RT: 5.659 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

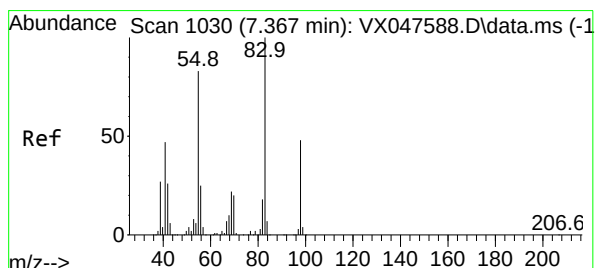
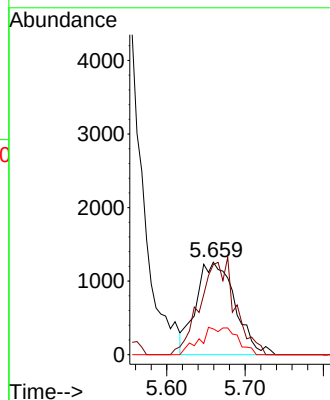
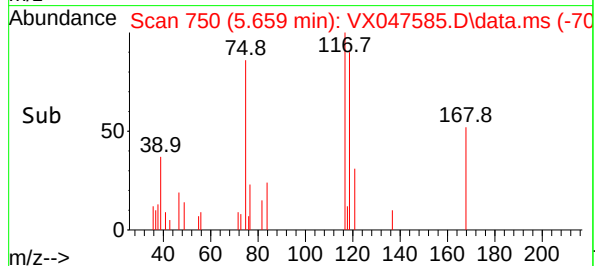
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion: 117 Resp: 4349
Ion Ratio Lower Upper
117 100
119 97.3 73.4 110.2
121 27.8 23.8 35.6

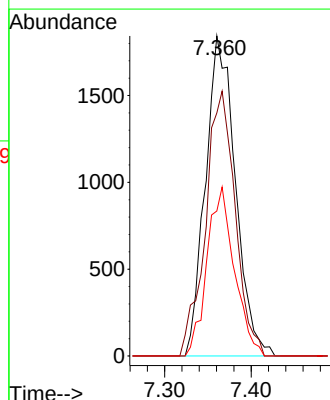
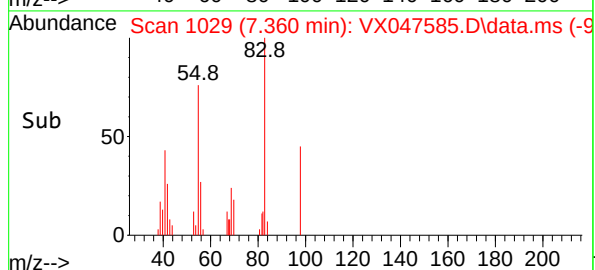
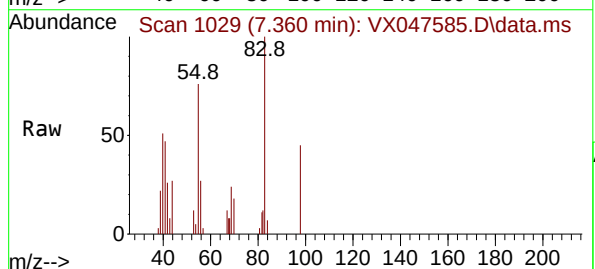
Manual Integrations
APPROVED

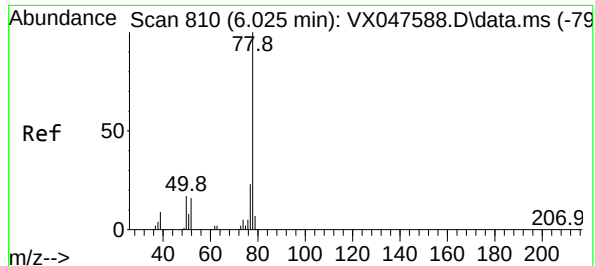
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#39
Methylcyclohexane
Concen: 0.882 ug/l
RT: 7.360 min Scan# 1029
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 83 Resp: 4428
Ion Ratio Lower Upper
83 100
55 76.0 66.4 99.6
98 45.3 38.1 57.1





#40

Benzene

Concen: 0.894 ug/l

RT: 6.025 min Scan# 810

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 78 Resp: 1201

Ion Ratio Lower Upper

78 100

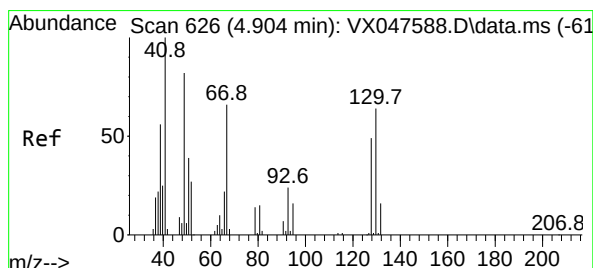
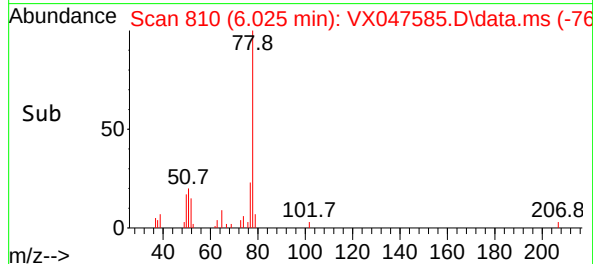
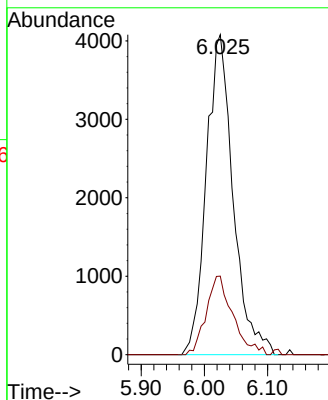
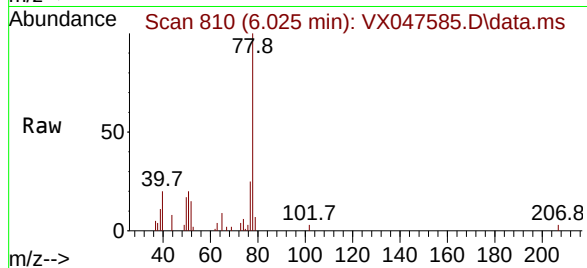
77 24.5 18.8 28.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#41

Methacrylonitrile

Concen: 0.870 ug/l

RT: 4.903 min Scan# 626

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion: 41 Resp: 2128

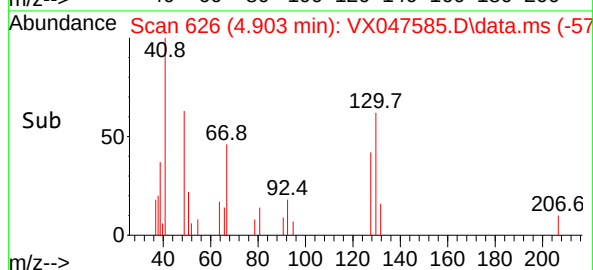
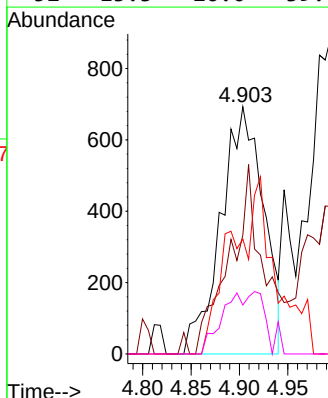
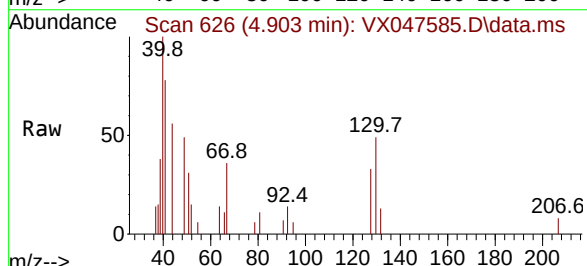
Ion Ratio Lower Upper

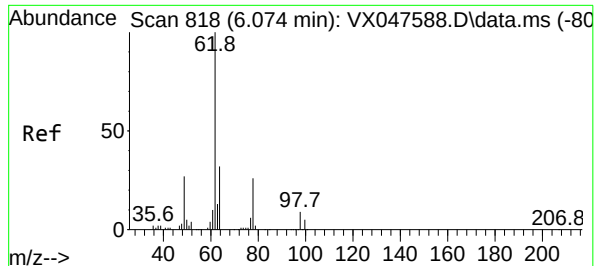
41 100

39 60.3 43.3 64.9

67 23.5 58.6 87.8#

52 13.3 26.0 39.0#





#42

1,2-Dichloroethane

Concen: 0.906 ug/l

RT: 6.062 min Scan# 816

Delta R.T. -0.012 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

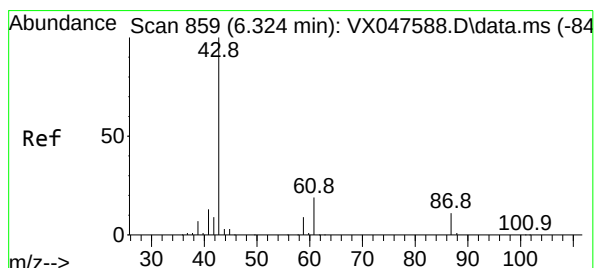
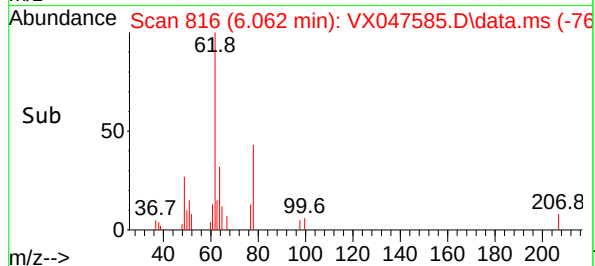
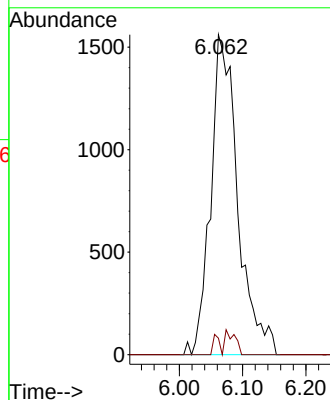
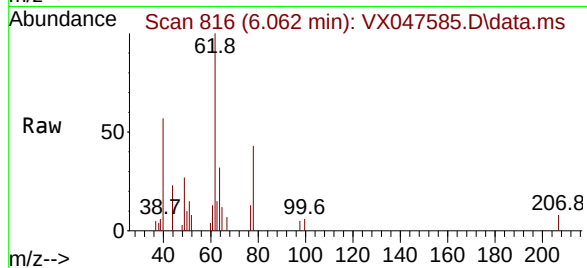
ClientSampleId :

VSTDICC001

Tgt Ion: 62 Resp: 4634
Ion Ratio Lower Upper
62 100
98 1.4 0.0 17.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#43

Isopropyl Acetate

Concen: 0.873 ug/l

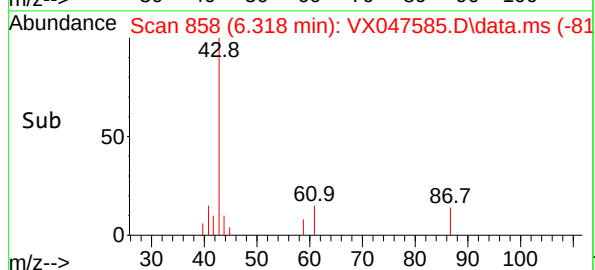
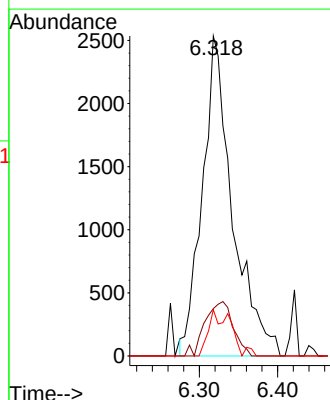
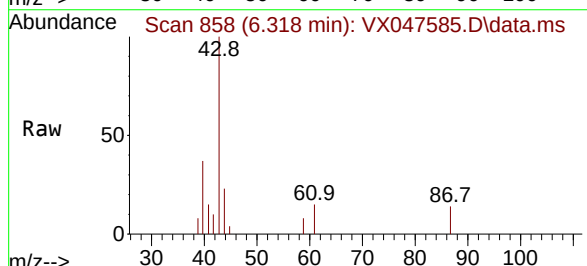
RT: 6.318 min Scan# 858

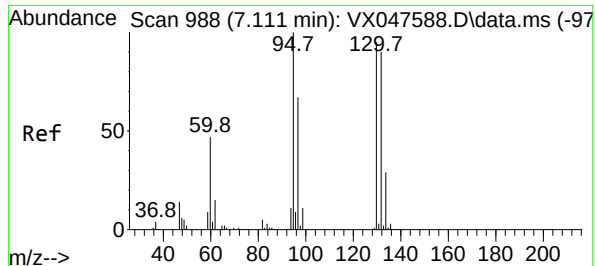
Delta R.T. -0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

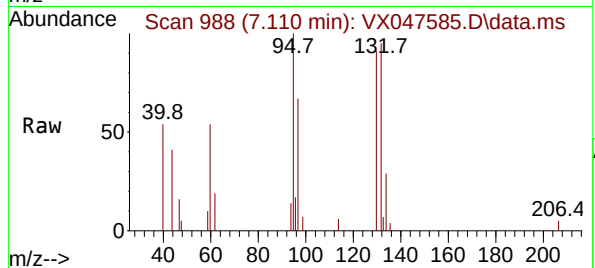
Tgt Ion: 43 Resp: 6784
Ion Ratio Lower Upper
43 100
61 15.9 15.2 22.8
87 10.1 9.6 14.4





#44
Trichloroethene
Concen: 0.824 ug/l
RT: 7.110 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

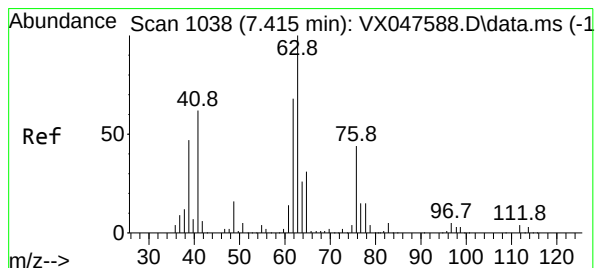
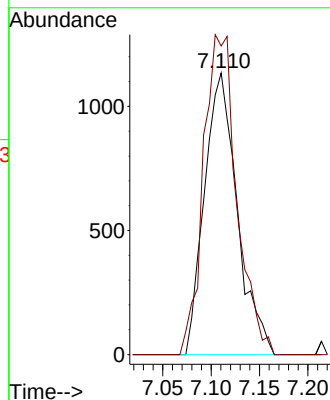
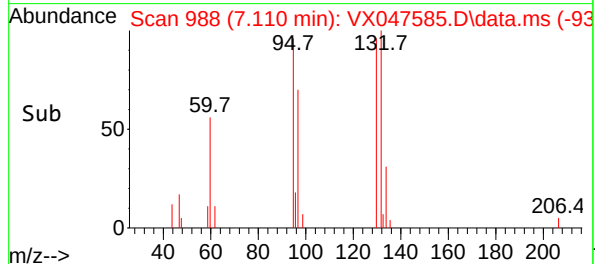
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



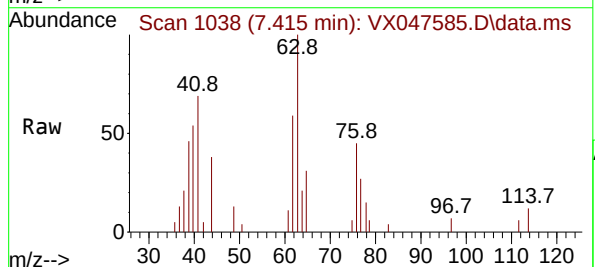
Tgt Ion:130 Resp: 267
Ion Ratio Lower Upper
130 100
95 127.9 0.0 210.8

Manual Integrations
APPROVED

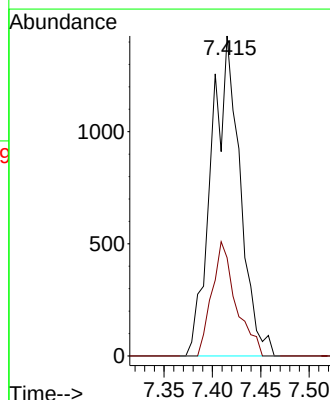
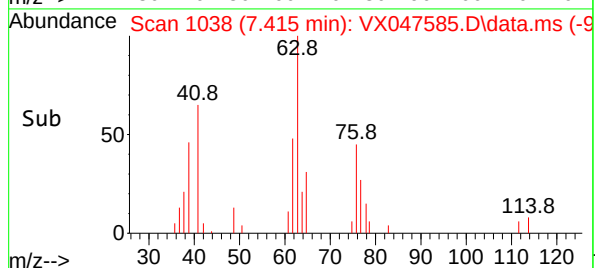
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

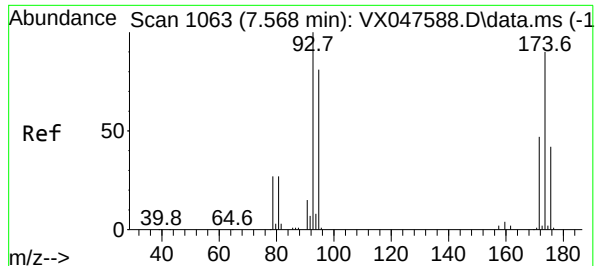


#45
1,2-Dichloropropane
Concen: 0.856 ug/l
RT: 7.415 min Scan# 1038
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23



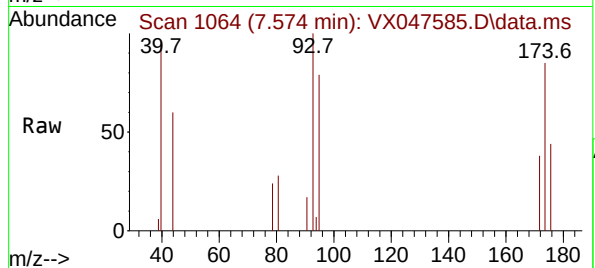
Tgt Ion: 63 Resp: 2945
Ion Ratio Lower Upper
63 100
65 30.7 24.7 37.1





#46
Dibromomethane
Concen: 0.895 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

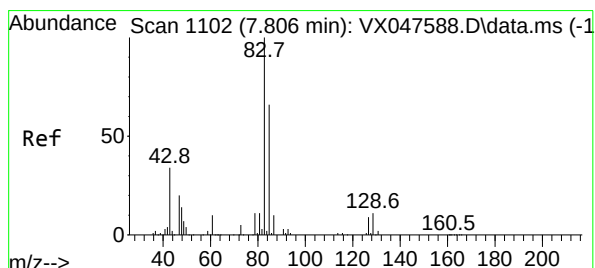
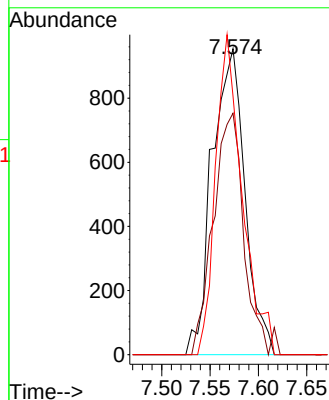
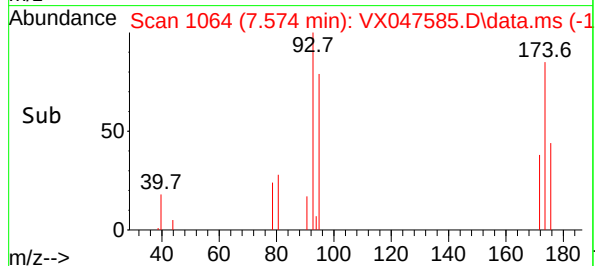
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 93 Resp: 2240
Ion Ratio Lower Upper
93 100
95 74.4 65.0 97.6
174 85.1 71.6 107.4

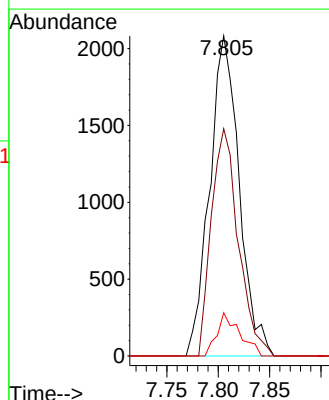
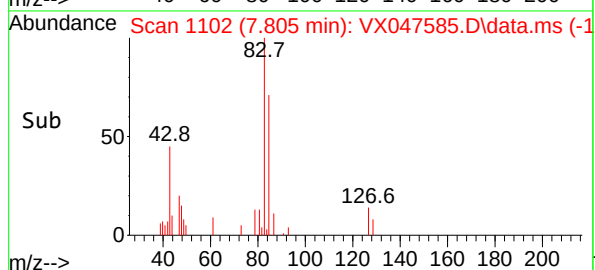
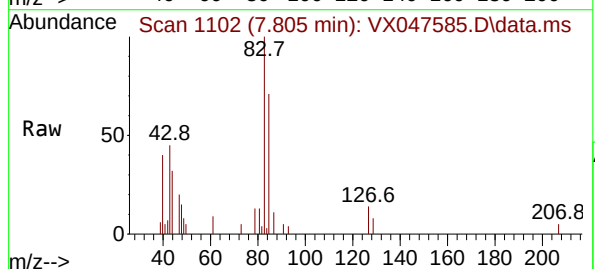
Manual Integrations
APPROVED

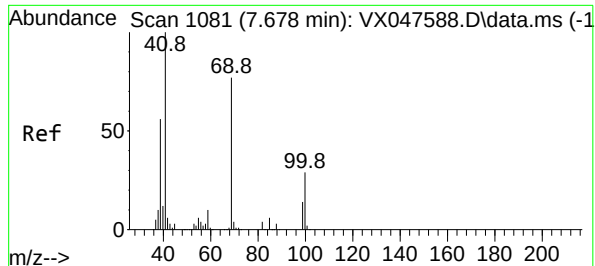
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#47
Bromodichloromethane
Concen: 0.806 ug/l
RT: 7.805 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 83 Resp: 4167
Ion Ratio Lower Upper
83 100
85 71.0 52.5 78.7
127 13.5 6.9 10.3#





#48

Methyl methacrylate

Concen: 0.867 ug/l

RT: 7.683 min Scan# 1082

Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

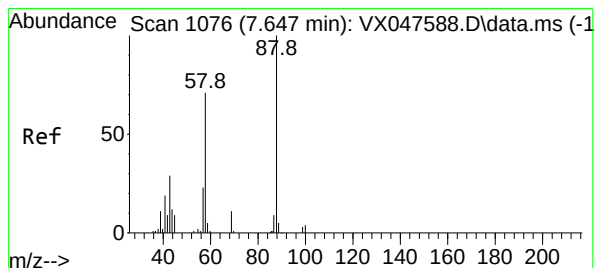
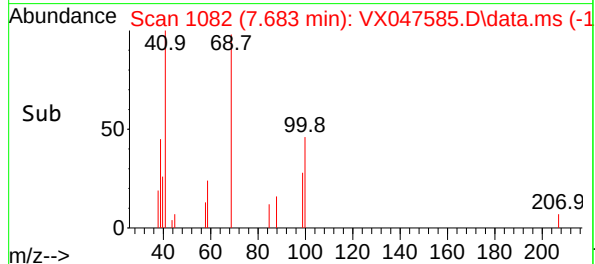
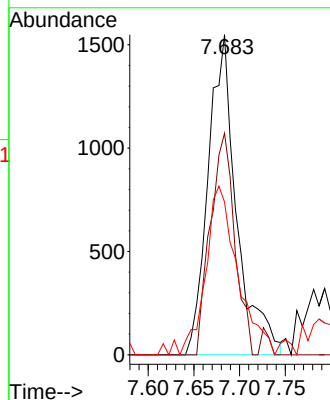
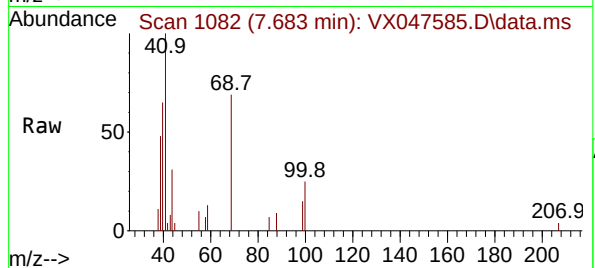
Tgt Ion:	41	Resp:	335
Ion	Ratio	Lower	Upper
41	100		
69	59.3	61.4	92.2
39	59.5	45.8	68.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#49

1,4-Dioxane

Concen: 12.477 ug/l m

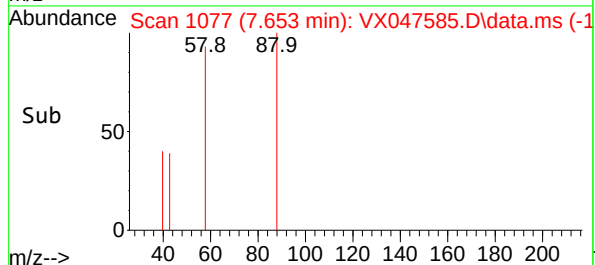
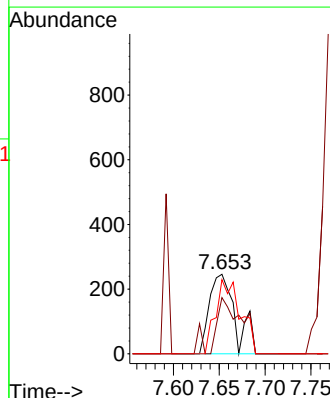
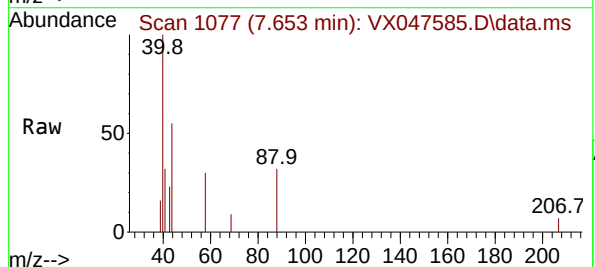
RT: 7.653 min Scan# 1077

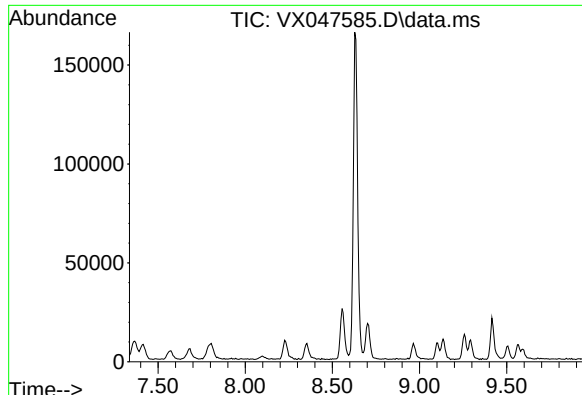
Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion:	88	Resp:	488
Ion	Ratio	Lower	Upper
88	100		
43	64.1	30.2	45.2
58	88.9	59.5	89.3





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 8.63 min

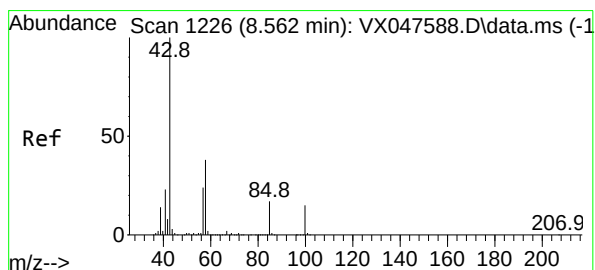
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 98
Sig Exp Ratio
98 100
100 66.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

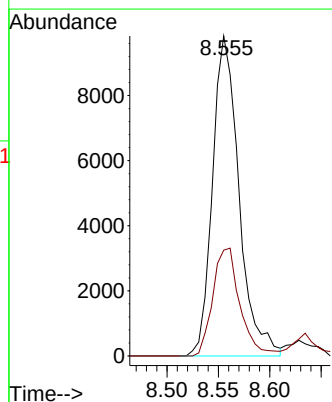
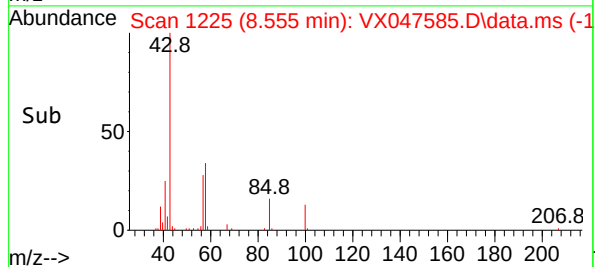
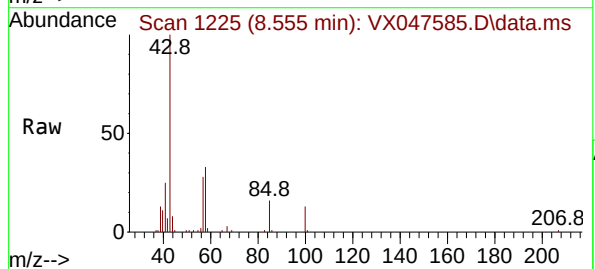
Manual Integrations
APPROVED

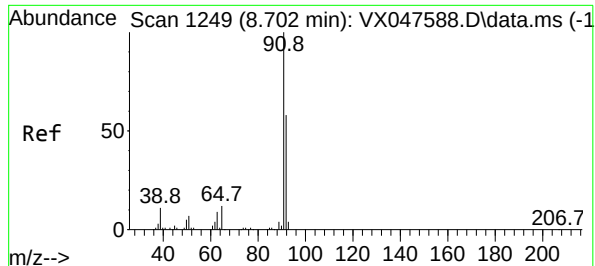
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#51
4-Methyl-2-Pentanone
Concen: 4.085 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 43 Resp: 17596
Ion Ratio Lower Upper
43 100
58 34.7 30.3 45.5





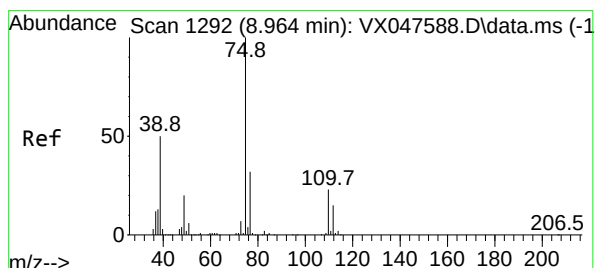
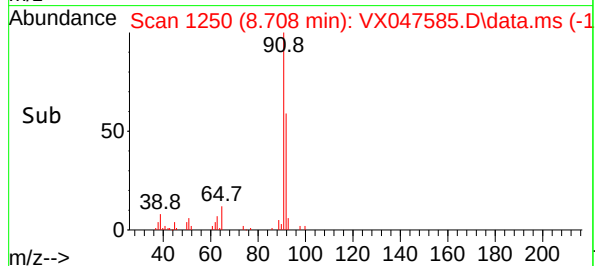
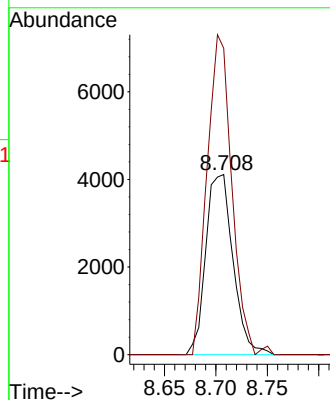
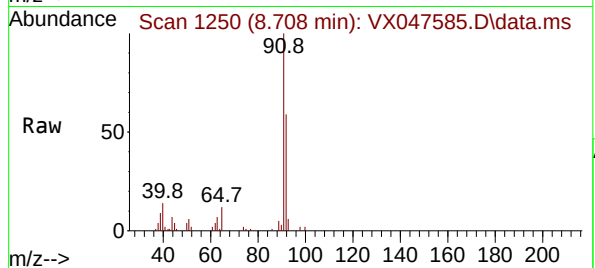
#52
Toluene
Concen: 0.917 ug/l
RT: 8.708 min Scan# 1249
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 92 Resp: 759
Ion Ratio Lower Upper
92 100
91 160.7 137.1 205.7

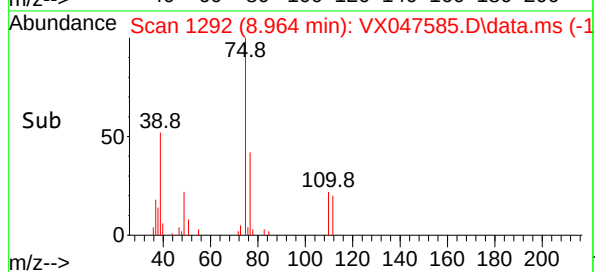
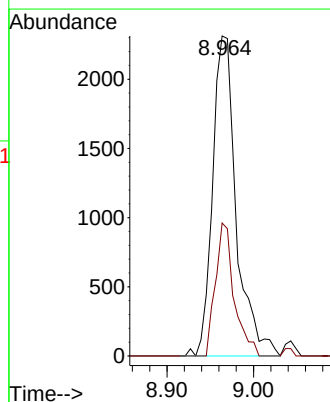
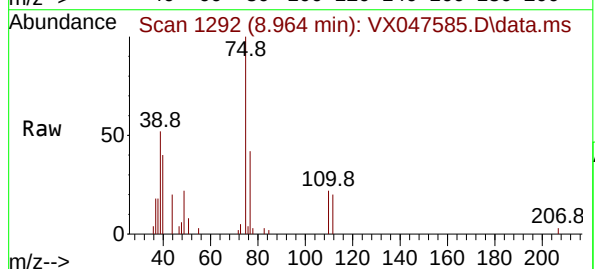
Manual Integrations
APPROVED

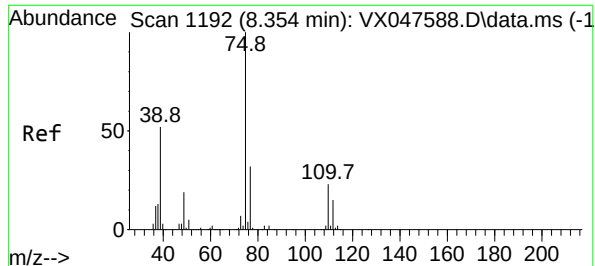
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#53
t-1,3-Dichloropropene
Concen: 0.834 ug/l
RT: 8.964 min Scan# 1292
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

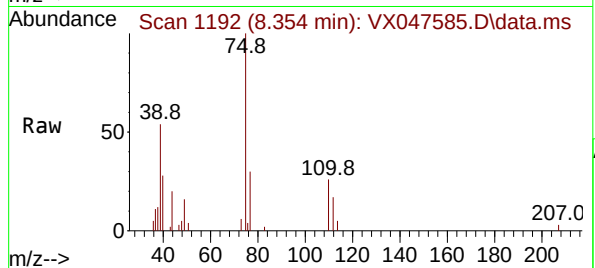
Tgt Ion: 75 Resp: 4398
Ion Ratio Lower Upper
75 100
77 41.5 25.4 38.2#





#54
cis-1,3-Dichloropropene
Concen: 0.823 ug/l
RT: 8.354 min Scan# 1192
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

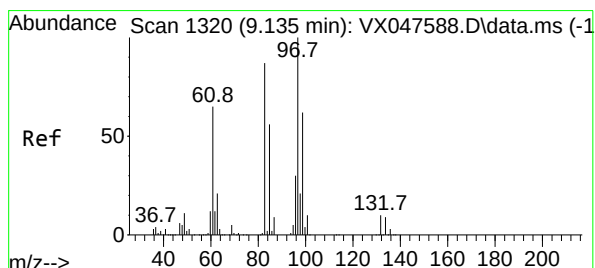
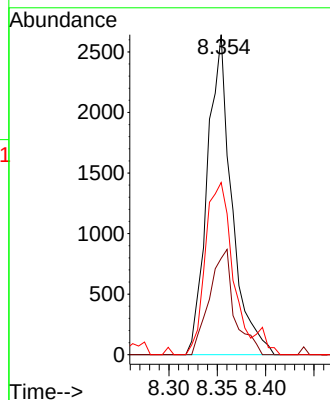
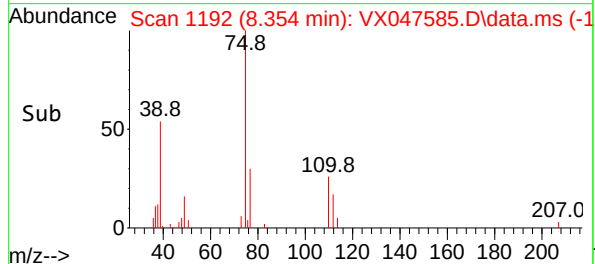
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion: 75 Resp: 463
Ion Ratio Lower Upper
75 100
77 30.1 25.8 38.6
39 25.6 41.4 62.2

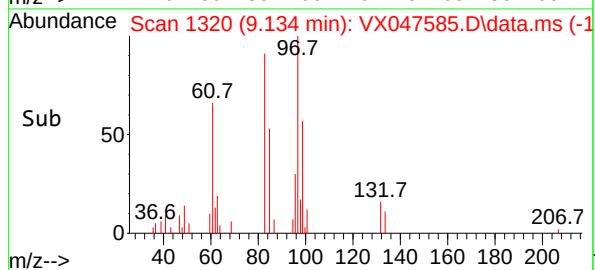
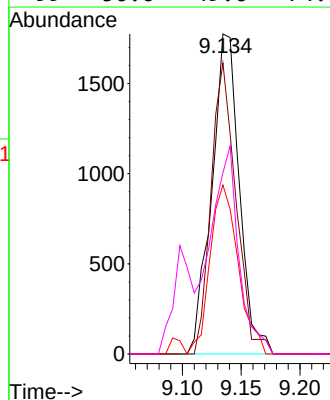
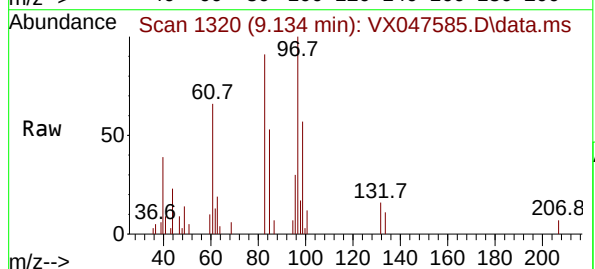
Manual Integrations
APPROVED

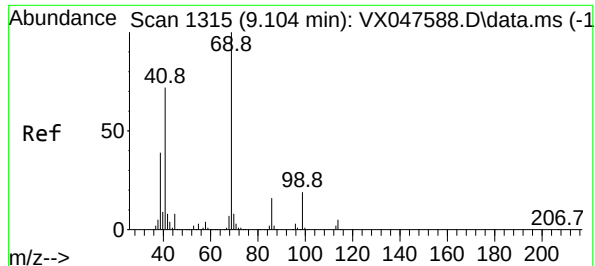
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#55
1,1,2-Trichloroethane
Concen: 0.914 ug/l
RT: 9.134 min Scan# 1320
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 97 Resp: 2918
Ion Ratio Lower Upper
97 100
83 90.9 69.6 104.4
85 52.8 45.0 67.6
99 56.6 49.6 74.4





#56

Ethyl methacrylate

Concen: 0.734 ug/l

RT: 9.104 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

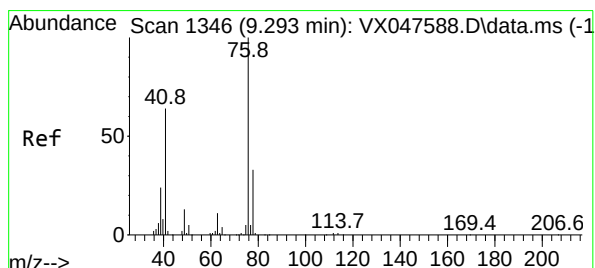
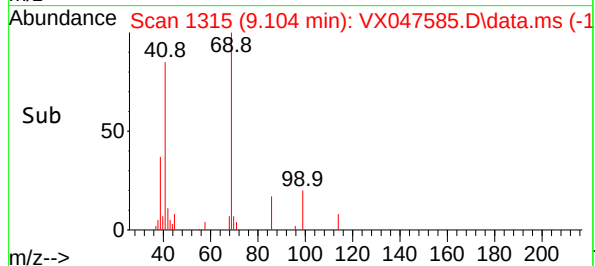
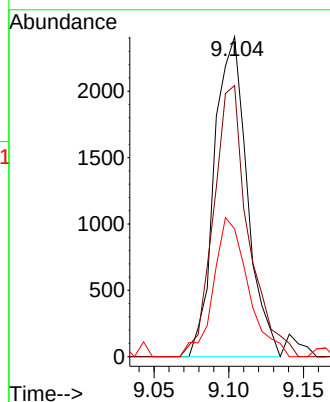
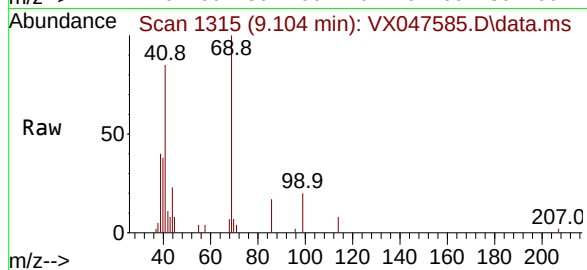
Tgt Ion:	69	Resp:	3679
Ion	Ratio	Lower	Upper
69	100		
41	89.4	58.6	87.8
39	46.0	31.5	47.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#57

1,3-Dichloropropane

Concen: 0.835 ug/l

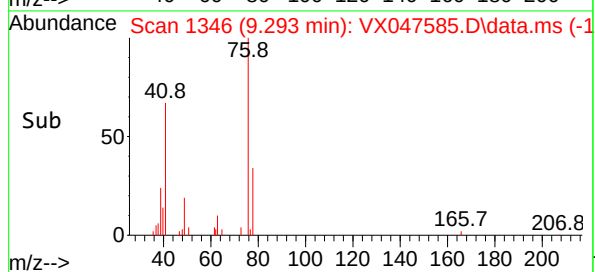
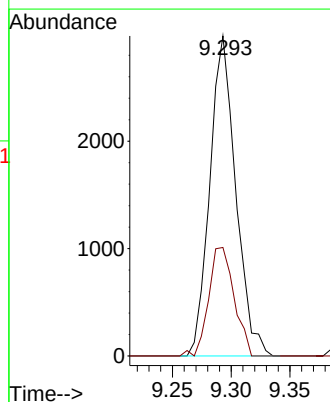
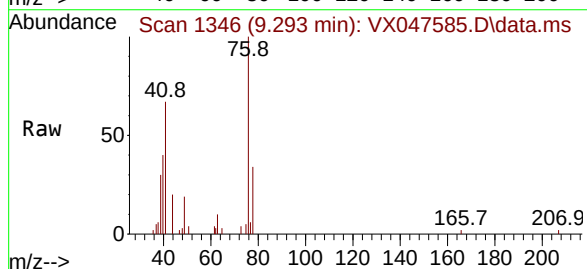
RT: 9.293 min Scan# 1346

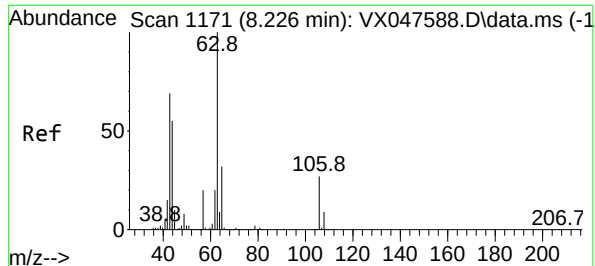
Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion:	76	Resp:	4580
Ion	Ratio	Lower	Upper
76	100		
78	33.2	26.2	39.4





#58

2-Chloroethyl Vinyl ether

Concen: 9.665 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 63 Resp: 422

Ion Ratio Lower Upper

63 100

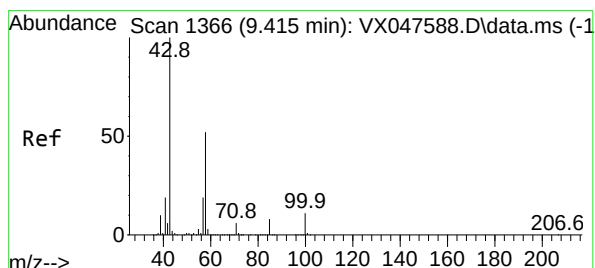
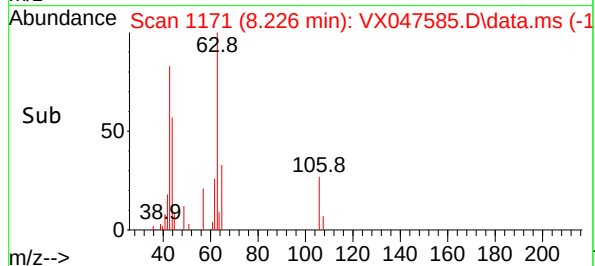
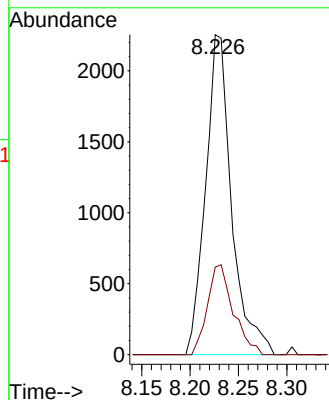
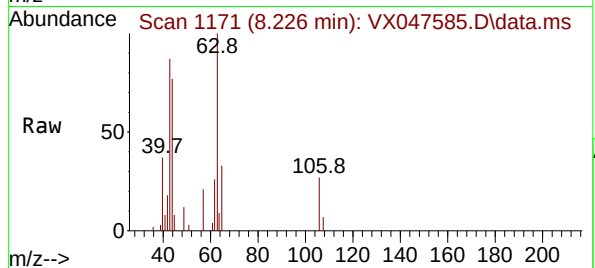
106 27.9 21.9 32.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#59

2-Hexanone

Concen: 4.003 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. -0.000 min

Lab File: VX047585.D

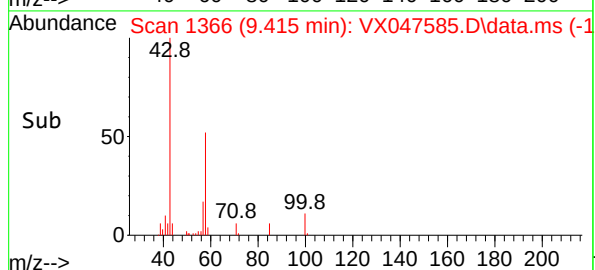
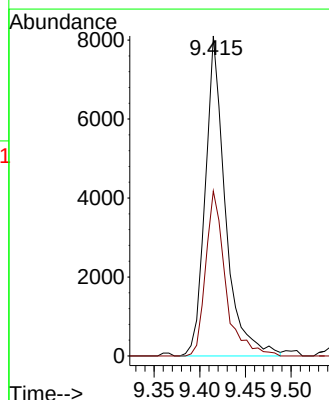
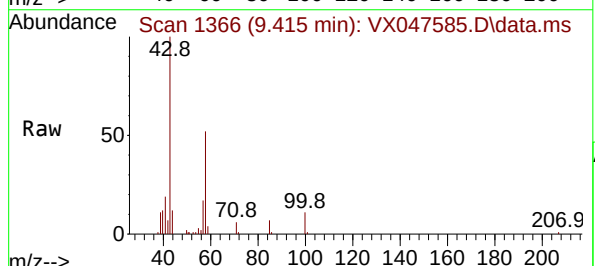
Acq: 16 Sep 2025 09:23

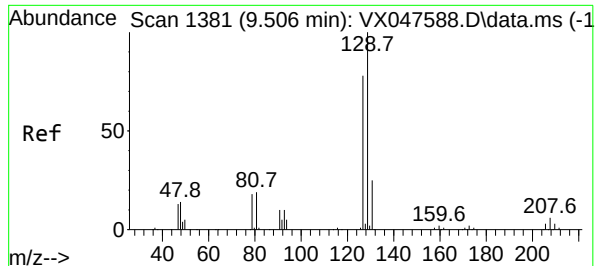
Tgt Ion: 43 Resp: 12385

Ion Ratio Lower Upper

43 100

58 50.7 26.1 78.2





#60

Dibromochloromethane

Concen: 0.789 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:129 Resp: 290

Ion Ratio Lower Upper

129 100

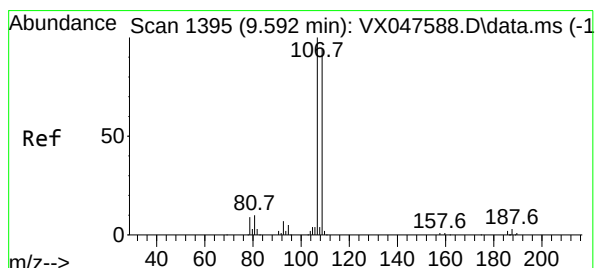
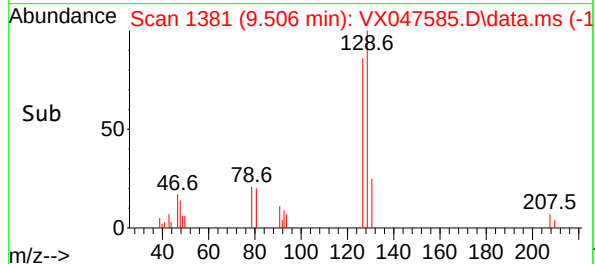
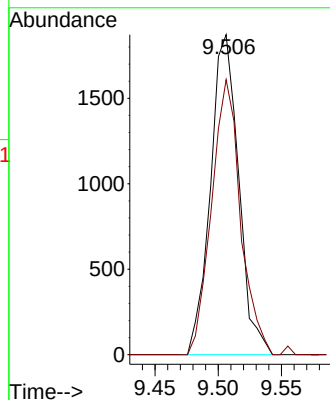
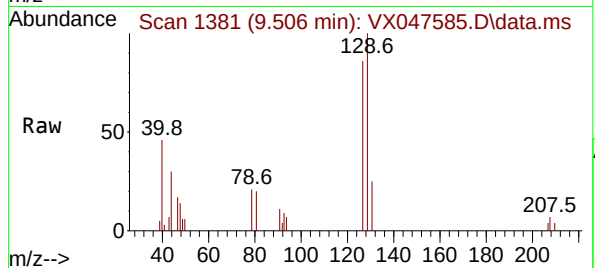
127 88.2 38.4 115.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#61

1,2-Dibromoethane

Concen: 0.798 ug/l

RT: 9.592 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VX047585.D

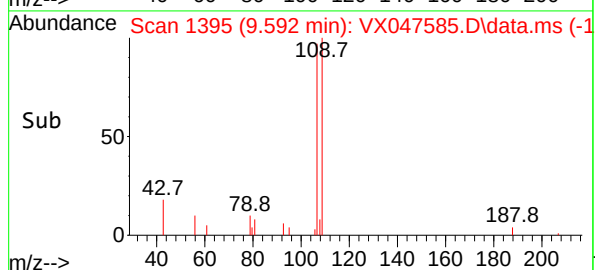
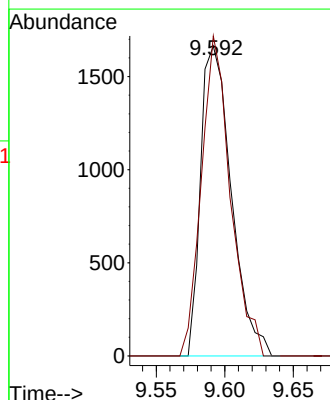
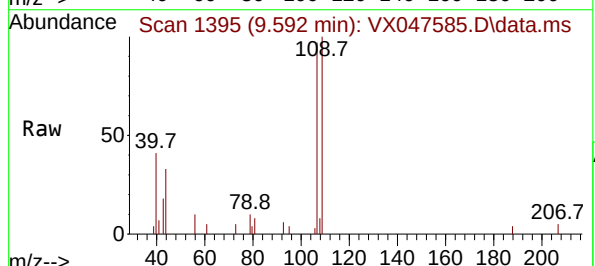
Acq: 16 Sep 2025 09:23

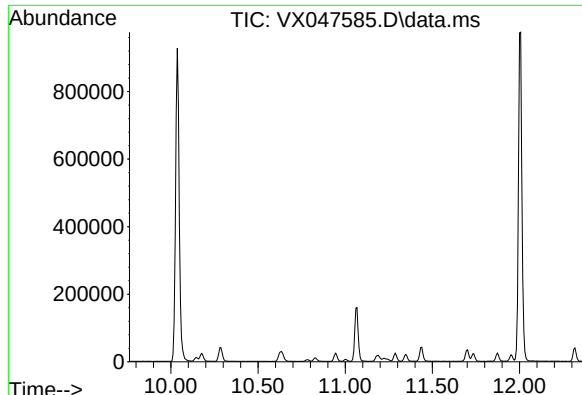
Tgt Ion:107 Resp: 2596

Ion Ratio Lower Upper

107 100

109 97.7 75.3 112.9





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 11.06 min

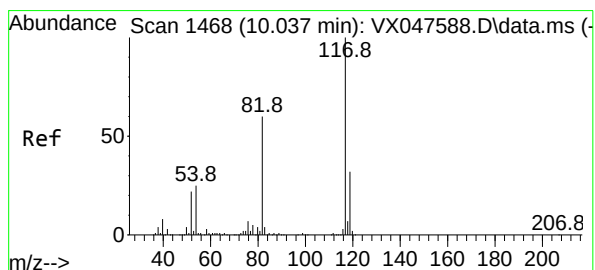
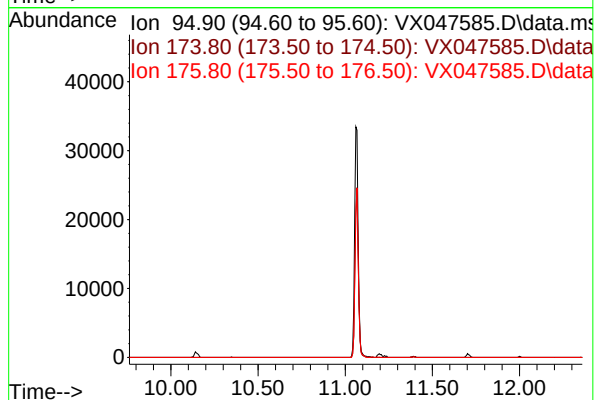
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 95
Sig Exp Ratio
95 100
174 70.8
176 69.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

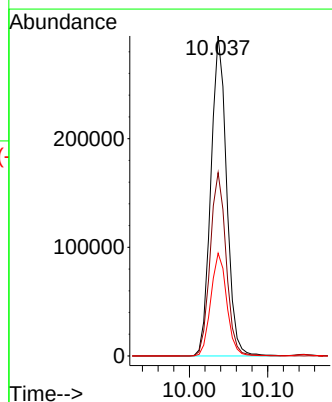
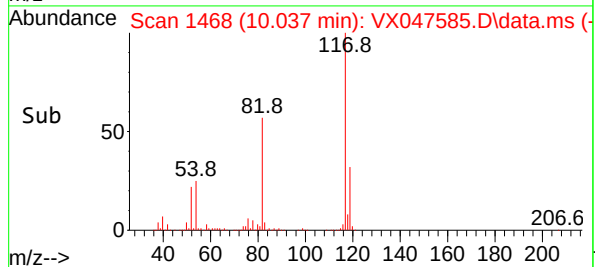
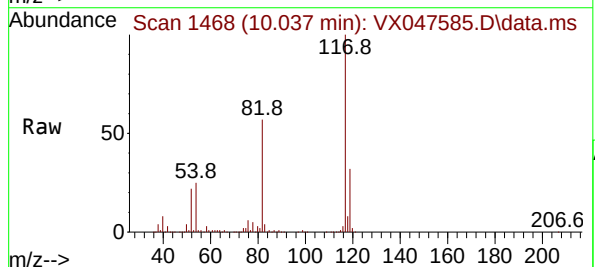
Manual Integrations
APPROVED

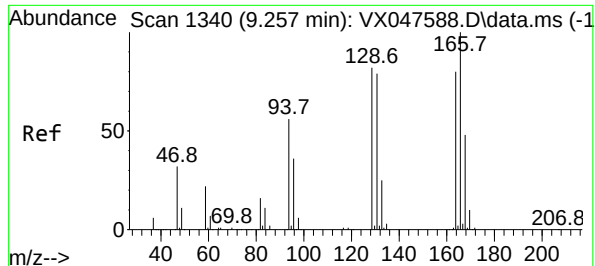
Reviewed By : John Carlone 09/17/2025
Supervised By : Mahesh Dadoda 09/18/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

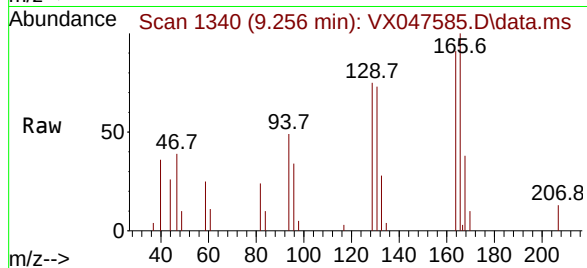
Tgt Ion: 117 Resp: 410953
Ion Ratio Lower Upper
117 100
82 57.3 47.8 71.6
119 32.1 25.2 37.8





#64
Tetrachloroethene
Concen: 0.917 ug/l
RT: 9.256 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

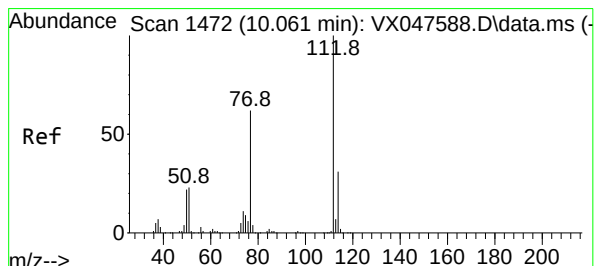
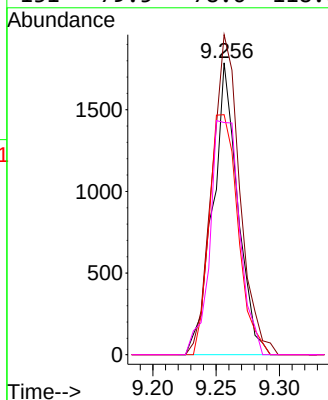
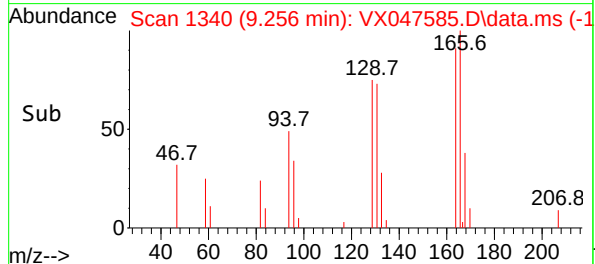
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:164 Resp: 245
Ion Ratio Lower Upper
164 100
166 109.6 100.2 150.2
129 82.2 81.8 122.6
131 79.5 78.6 118.0

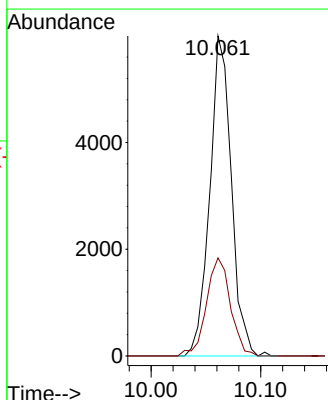
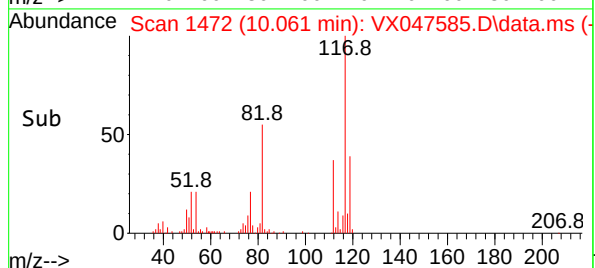
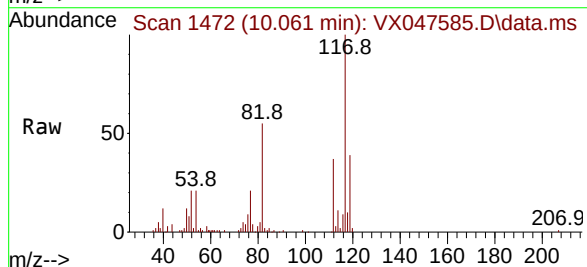
Manual Integrations
APPROVED

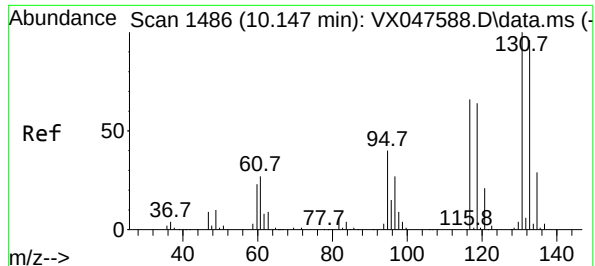
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#65
Chlorobenzene
Concen: 0.879 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:112 Resp: 8202
Ion Ratio Lower Upper
112 100
114 30.7 25.1 37.7





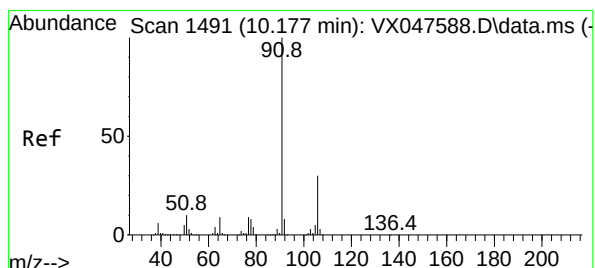
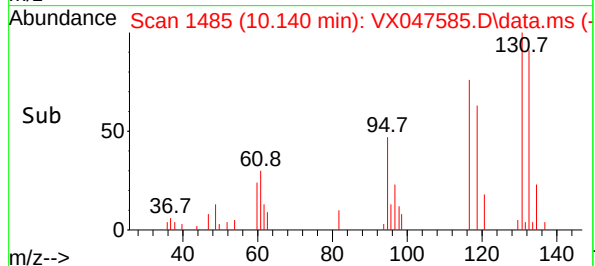
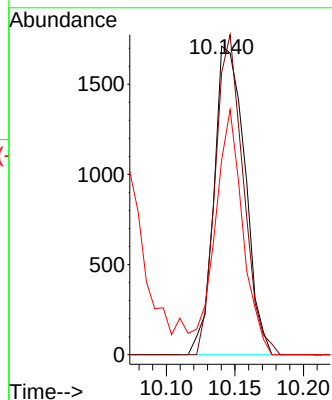
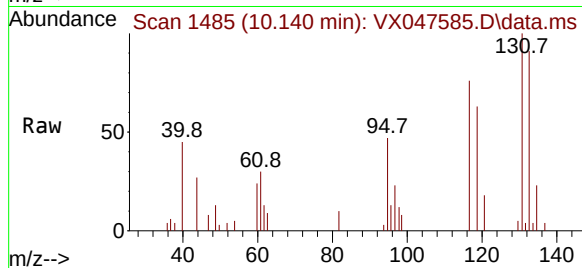
#66
1,1,1,2-Tetrachloroethane
Concen: 0.833 ug/l
RT: 10.140 min Scan# 1485
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

Tgt Ion:131 Resp: 2684
Ion Ratio Lower Upper
131 100
133 93.9 47.3 142.0
119 0.0 32.0 96.0

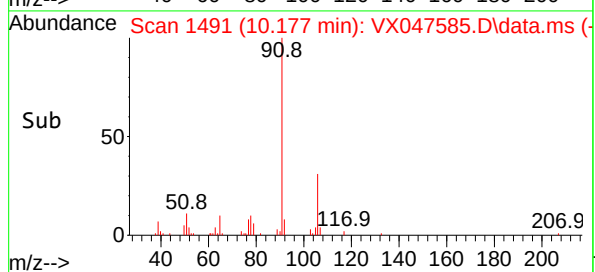
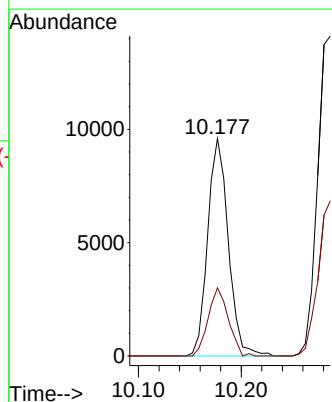
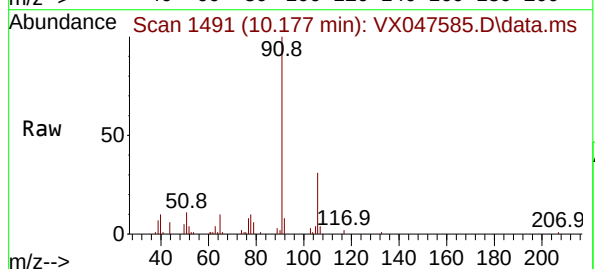
Manual Integrations
APPROVED

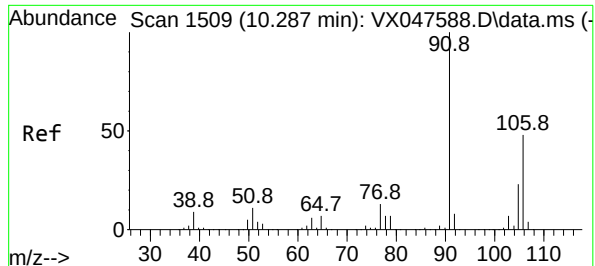
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#67
Ethyl Benzene
Concen: 0.829 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 91 Resp: 13360
Ion Ratio Lower Upper
91 100
106 31.3 24.3 36.5





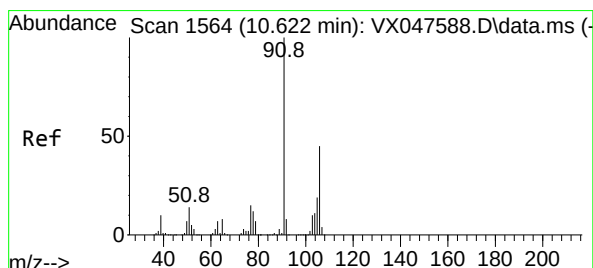
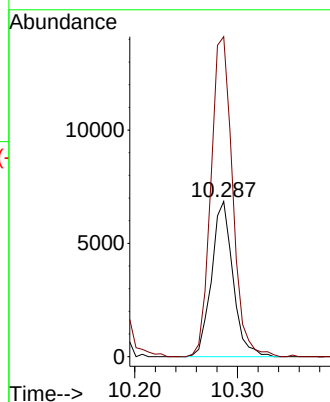
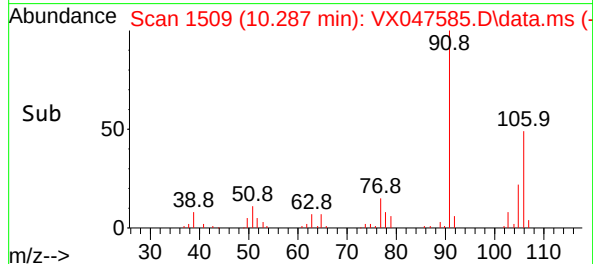
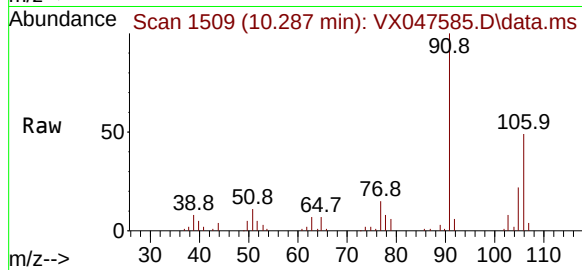
#68
m/p-Xylenes
Concen: 1.655 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

Tgt Ion:106 Resp: 992
Ion Ratio Lower Upper
106 100
91 208.5 167.8 251.8

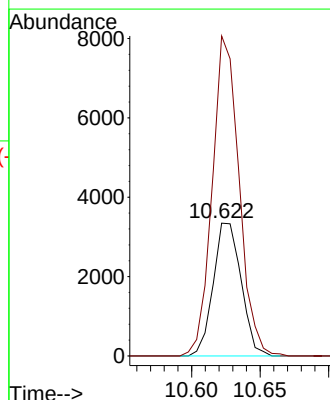
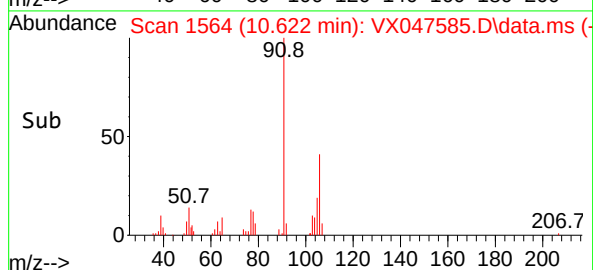
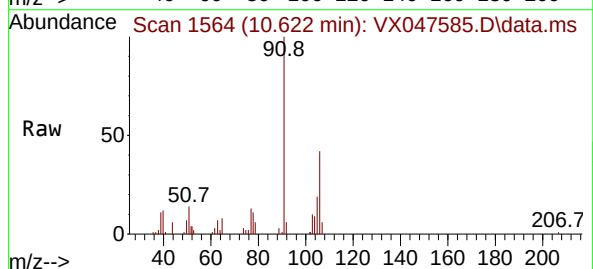
Manual Integrations
APPROVED

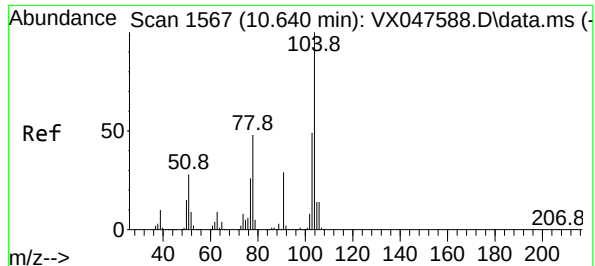
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#69
o-Xylene
Concen: 0.816 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion:106 Resp: 4734
Ion Ratio Lower Upper
106 100
91 232.4 111.1 333.4





#70

Styrene

Concen: 0.824 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

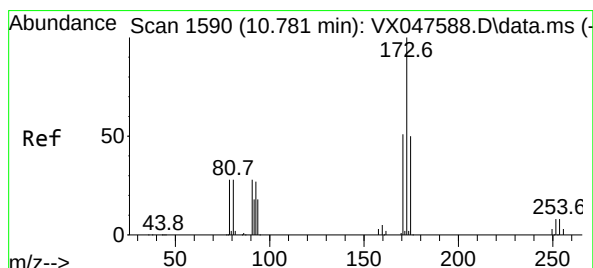
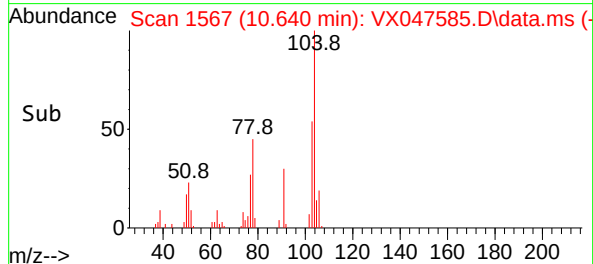
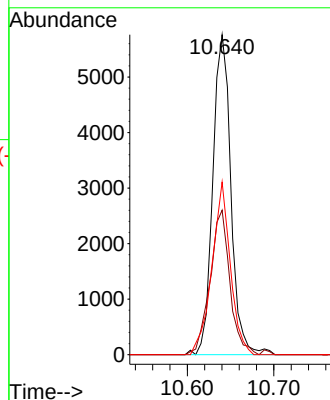
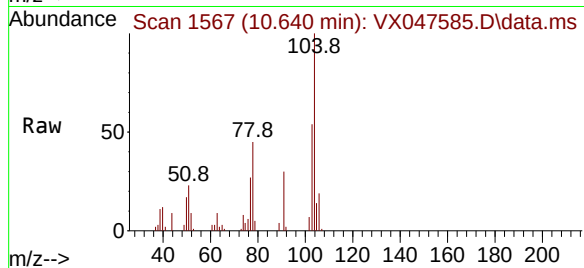
VSTDIC001

Tgt Ion:	104	Resp:	837
Ion Ratio	Lower	Upper	
104	100		
78	49.5	43.1	64.7
103	55.0	43.1	64.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#71

Bromoform

Concen: 0.755 ug/l

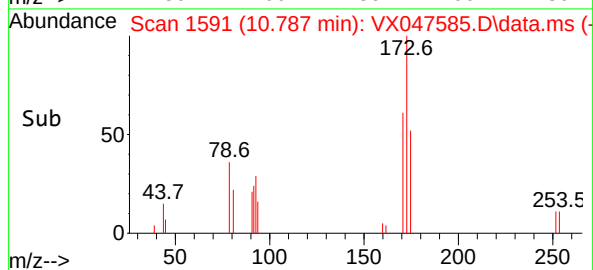
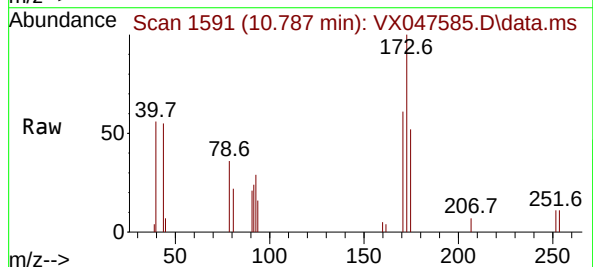
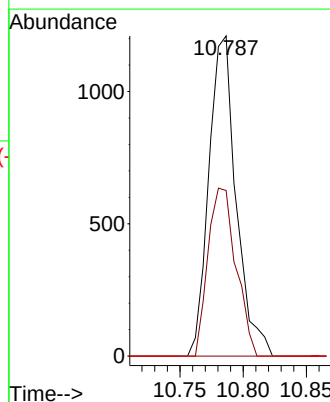
RT: 10.787 min Scan# 1591

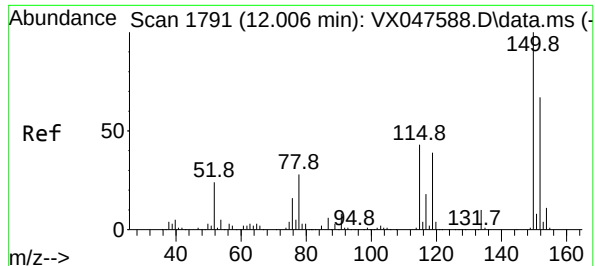
Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion:	173	Resp:	1816
Ion Ratio	Lower	Upper	
173	100		
175	53.8	24.9	74.6
254	0.0	0.1	0.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:152 Resp: 201970

Ion Ratio Lower Upper

152 100

115 64.2 44.9 134.5

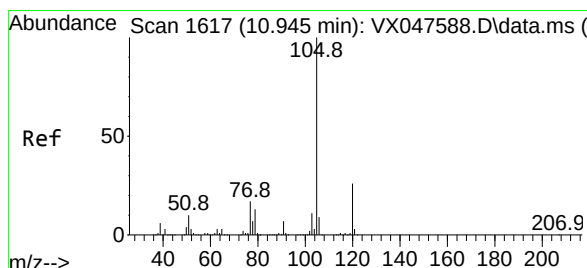
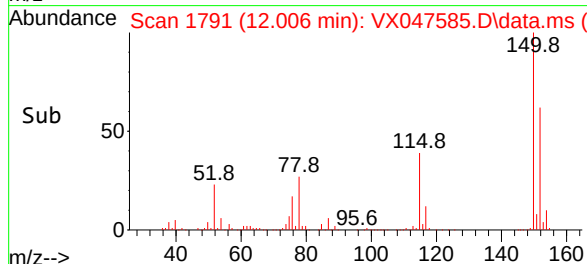
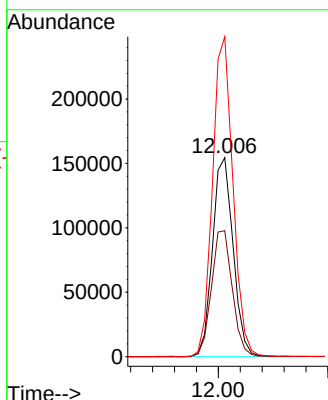
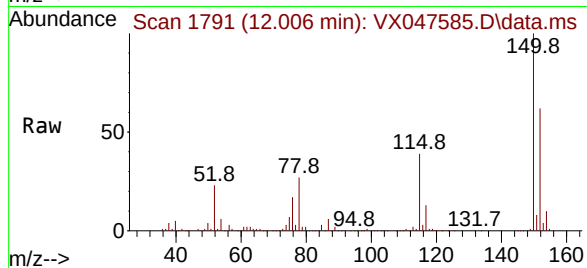
150 158.7 0.0 352.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#73

Isopropylbenzene

Concen: 0.822 ug/l

RT: 10.945 min Scan# 1617

Delta R.T. -0.000 min

Lab File: VX047585.D

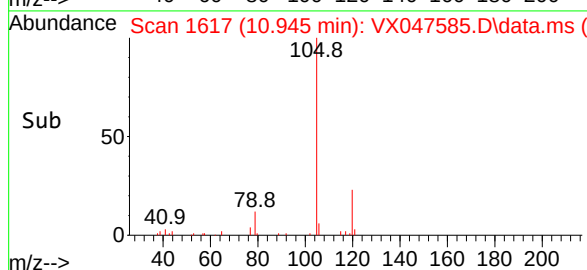
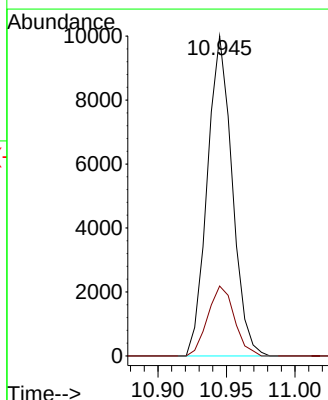
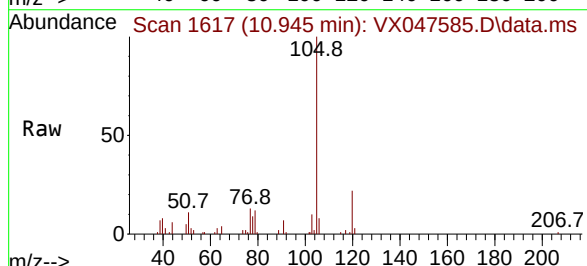
Acq: 16 Sep 2025 09:23

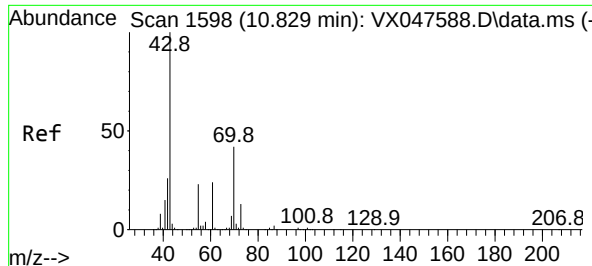
Tgt Ion:105 Resp: 12618

Ion Ratio Lower Upper

105 100

120 23.4 12.8 38.4





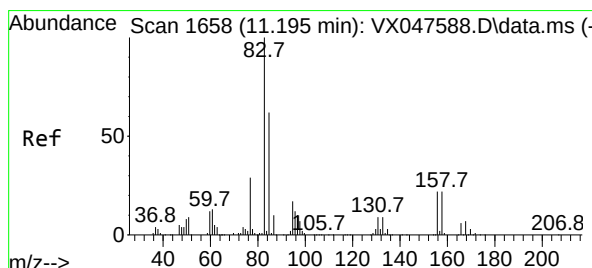
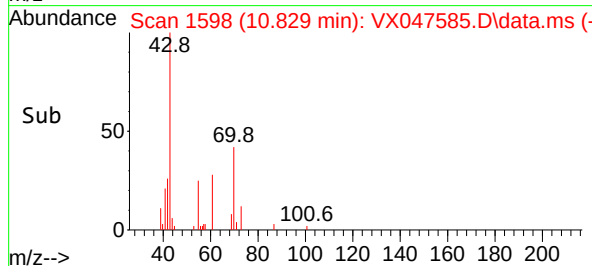
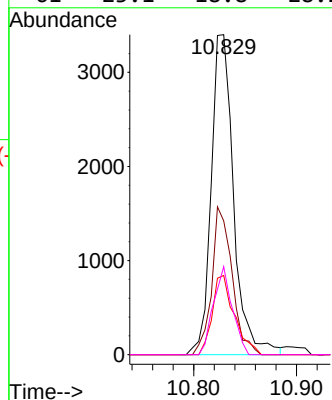
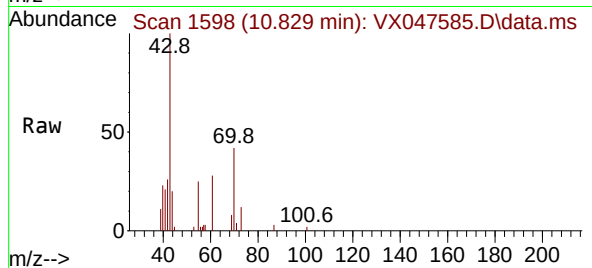
#74
N-amy1 acetate
Concen: 0.737 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43	Resp: 515
Ion Ratio	Lower Upper
43 100	
70 41.7	32.0 48.0
55 24.3	18.9 28.3
61 23.1	18.8 28.2

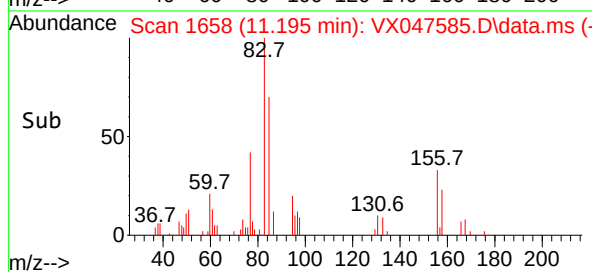
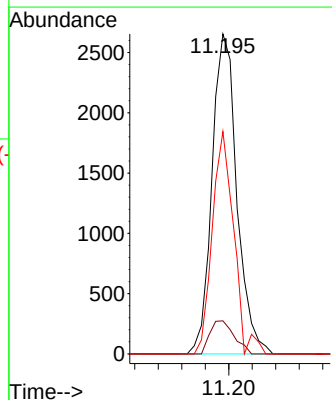
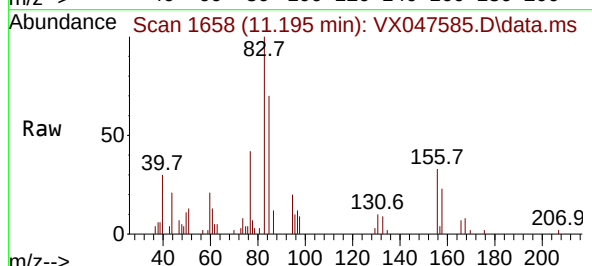
Manual Integrations
APPROVED

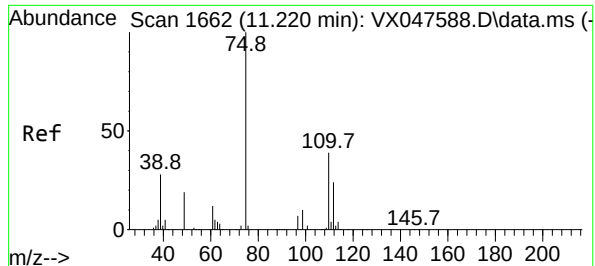
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#75
1,1,2,2-Tetrachloroethane
Concen: 0.839 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 83	Resp: 3900
Ion Ratio	Lower Upper
83 100	
131 10.1	5.0 14.9
85 59.8	31.6 95.0





#76

1,2,3-Trichloropropane

Concen: 0.816 ug/l m

RT: 11.225 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 342

Ion Ratio Lower Upper

75 100

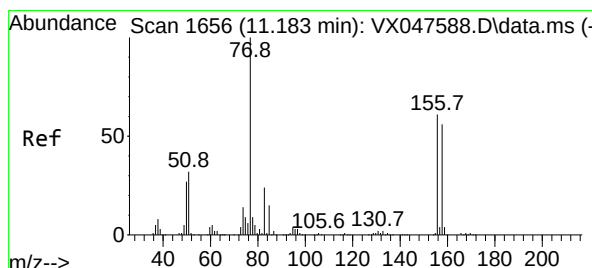
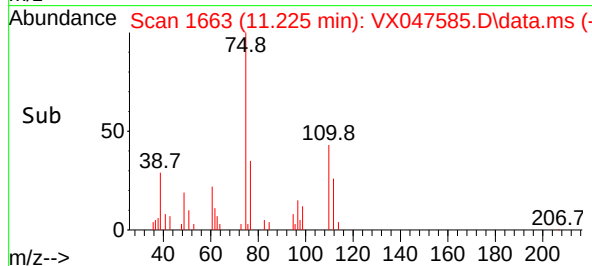
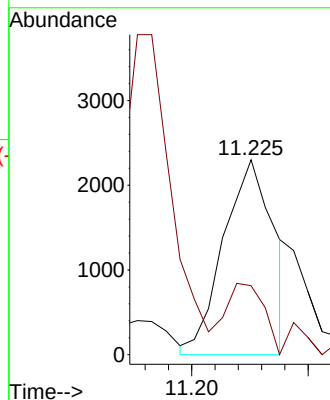
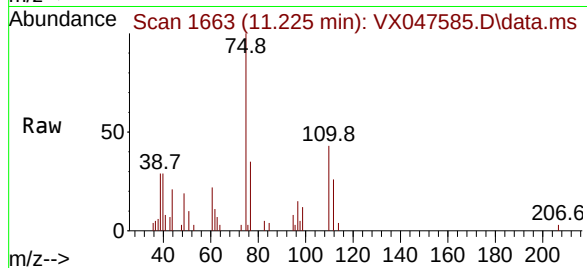
77 34.6 18.8 56.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#77

Bromobenzene

Concen: 0.811 ug/l

RT: 11.183 min Scan# 1656

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

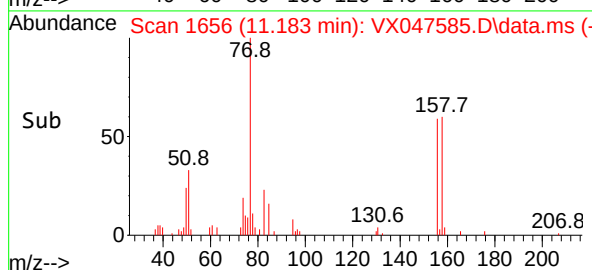
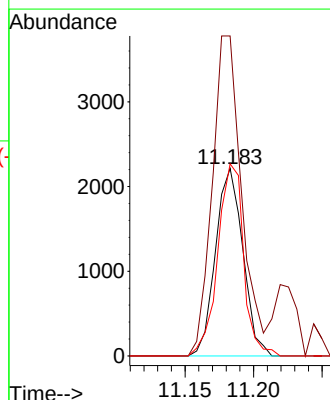
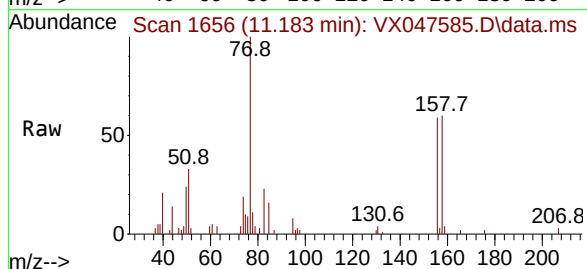
Tgt Ion:156 Resp: 3069

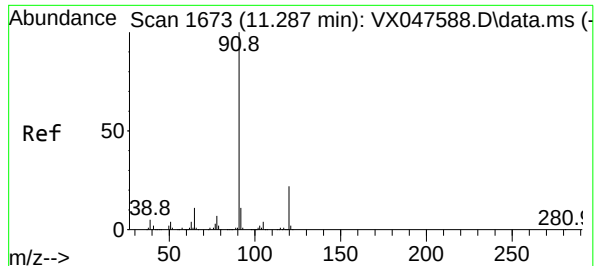
Ion Ratio Lower Upper

156 100

77 182.3 89.7 269.1

158 96.6 47.9 143.6





#78

n-propylbenzene

Concen: 0.819 ug/l

RT: 11.286 min Scan# 1673

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 1486

Ion Ratio Lower Upper

91 100

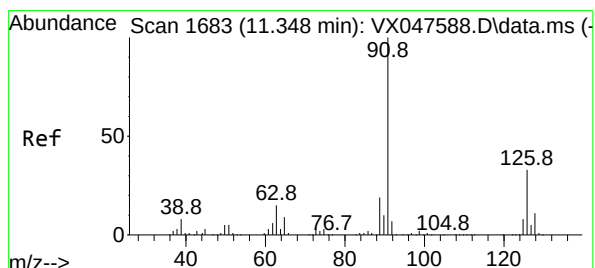
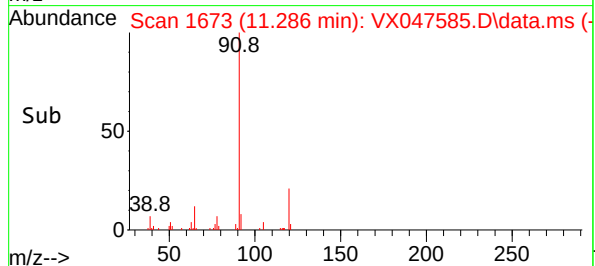
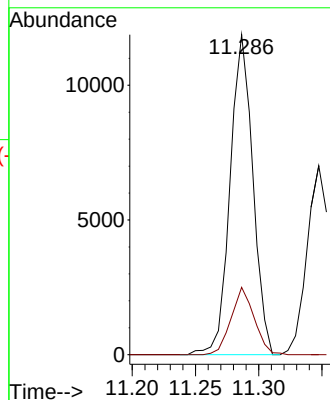
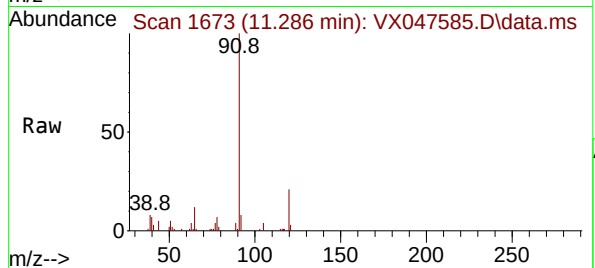
120 21.4 11.1 33.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#79

2-Chlorotoluene

Concen: 0.827 ug/l

RT: 11.347 min Scan# 1683

Delta R.T. -0.000 min

Lab File: VX047585.D

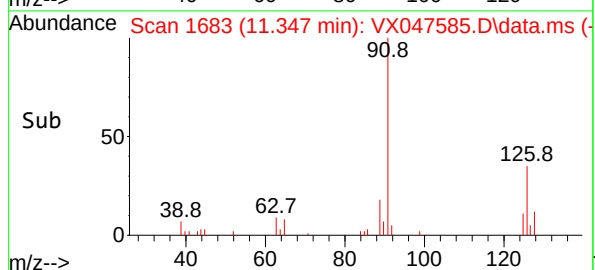
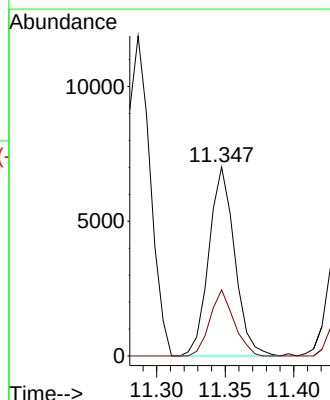
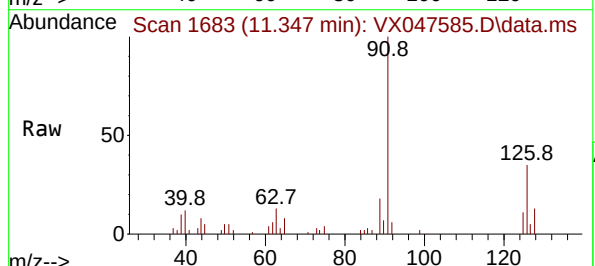
Acq: 16 Sep 2025 09:23

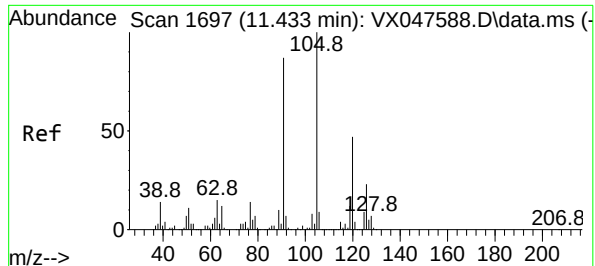
Tgt Ion: 91 Resp: 9195

Ion Ratio Lower Upper

91 100

126 32.5 16.1 48.3





#80

1,3,5-Trimethylbenzene

Concen: 0.787 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 9929

Ion Ratio Lower Upper

105 100

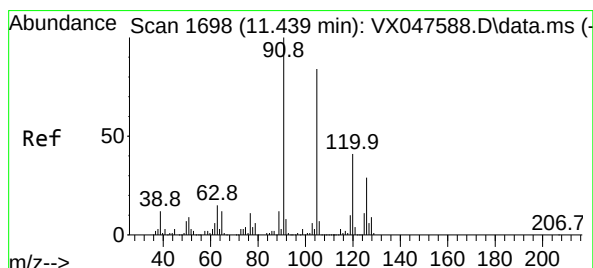
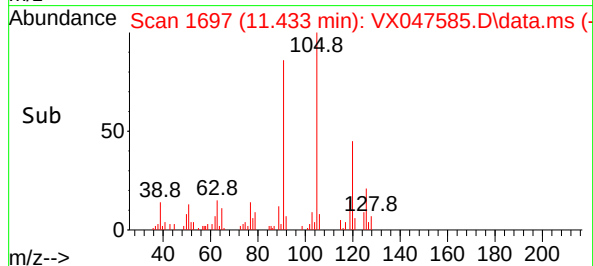
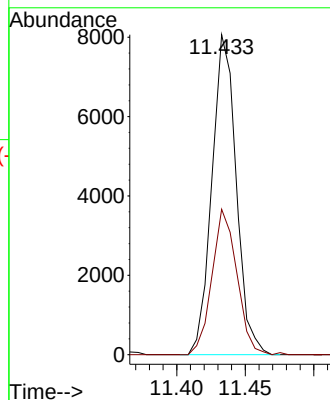
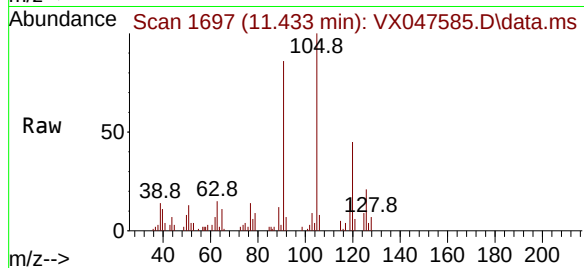
120 46.7 23.6 70.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#82

4-Chlorotoluene

Concen: 0.847 ug/l

RT: 11.439 min Scan# 1698

Delta R.T. -0.000 min

Lab File: VX047585.D

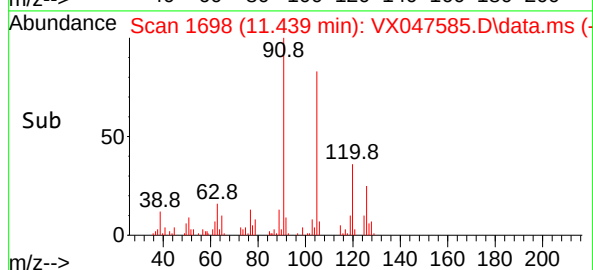
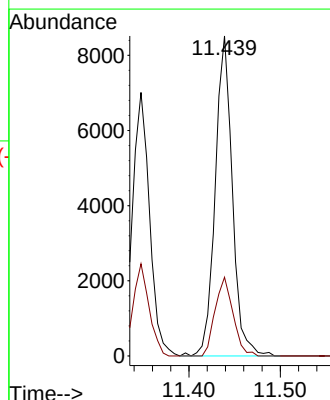
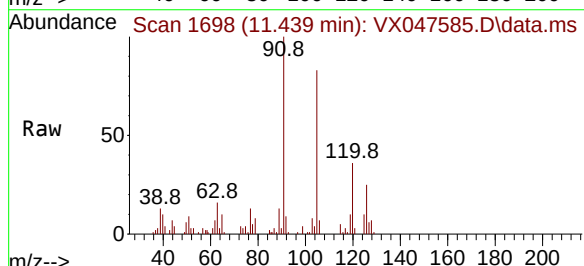
Acq: 16 Sep 2025 09:23

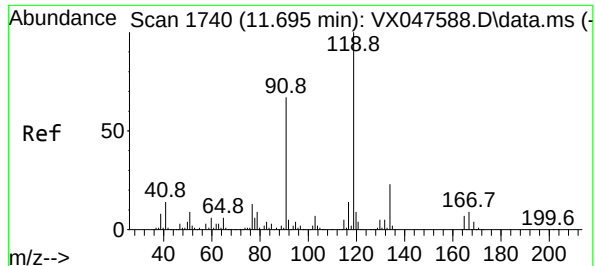
Tgt Ion: 91 Resp: 11123

Ion Ratio Lower Upper

91 100

126 25.8 14.2 42.6





#83

tert-Butylbenzene

Concen: 0.876 ug/l

RT: 11.695 min Scan# 1740

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

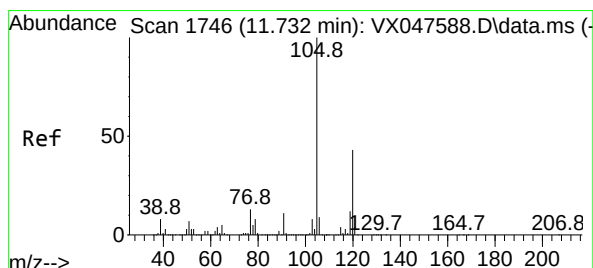
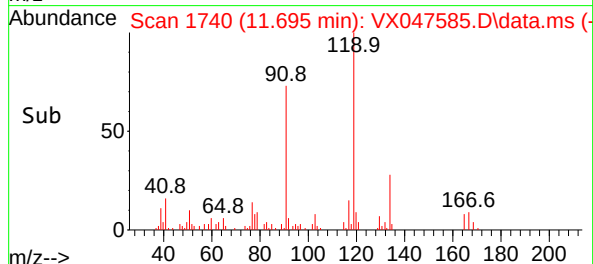
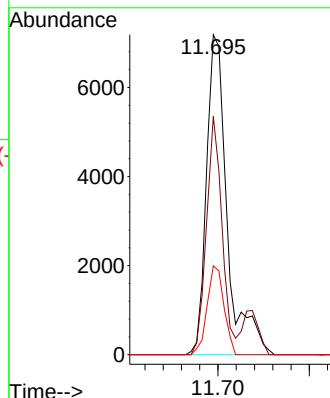
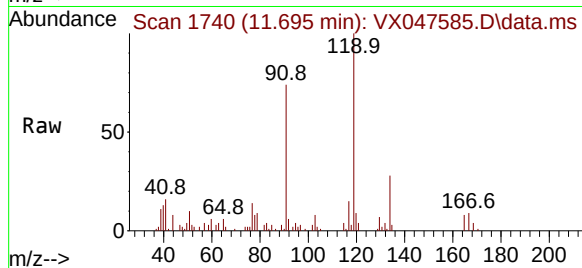
VSTDIC001

Tgt Ion	Ratio	Lower	Upper
119	100		
91	56.1	29.6	88.8
134	22.5	11.0	33.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#84

1,2,4-Trimethylbenzene

Concen: 0.796 ug/l

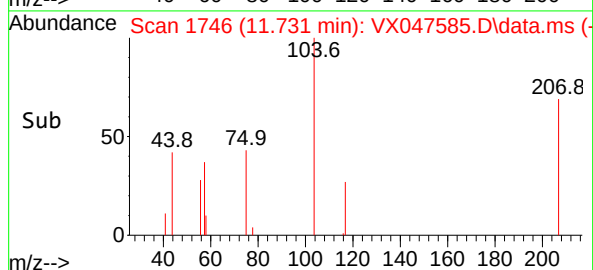
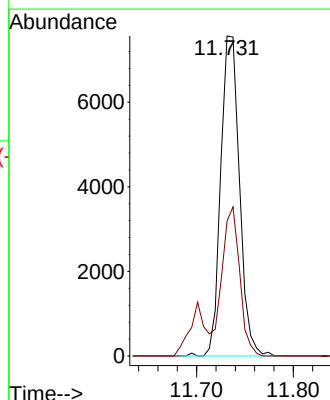
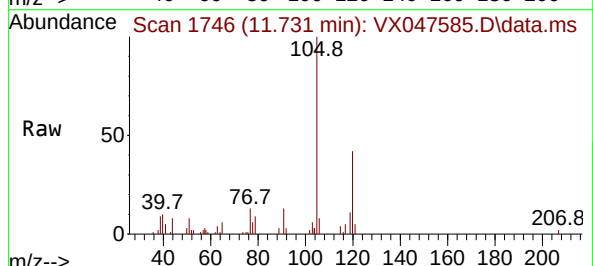
RT: 11.731 min Scan# 1746

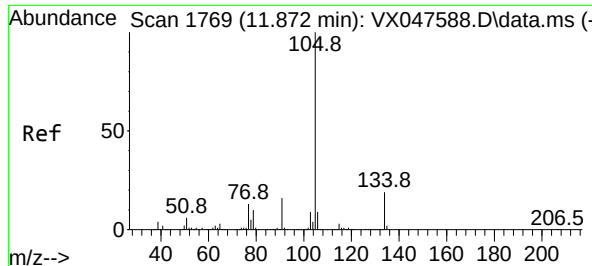
Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.1	66.1





#85

sec-Butylbenzene

Concen: 0.819 ug/l

RT: 11.872 min Scan# 1769

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 1256

Ion Ratio Lower Upper

105 100

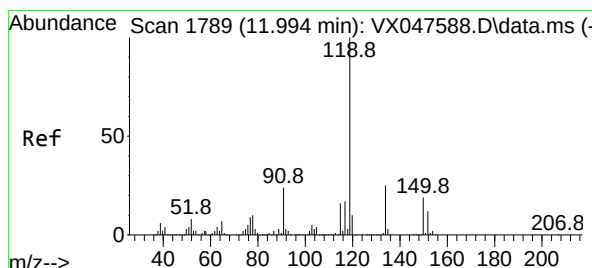
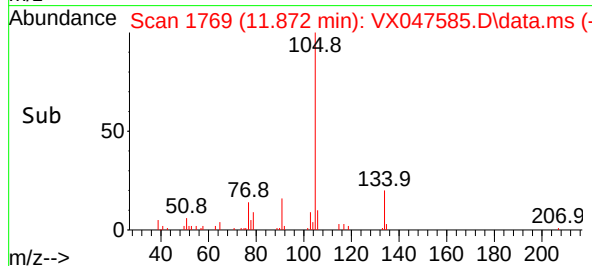
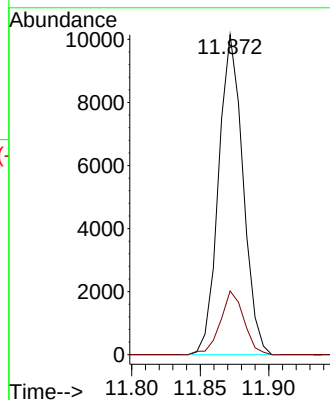
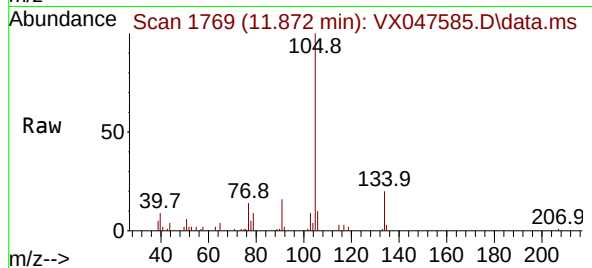
134 19.3 9.8 29.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#86

p-Isopropyltoluene

Concen: 0.827 ug/l

RT: 11.994 min Scan# 1789

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

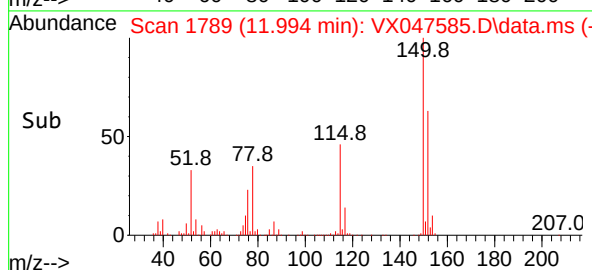
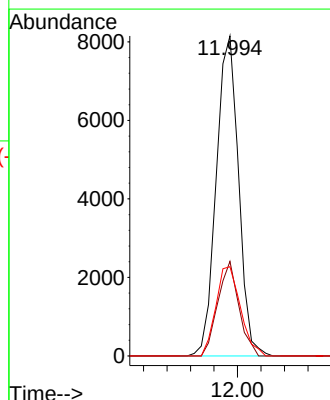
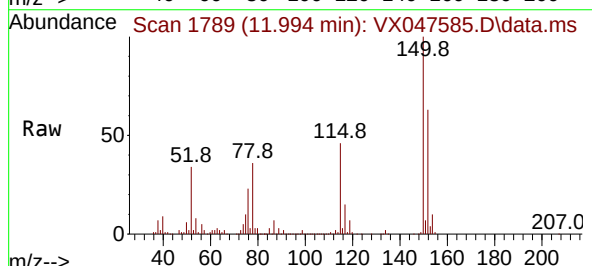
Tgt Ion:119 Resp: 10744

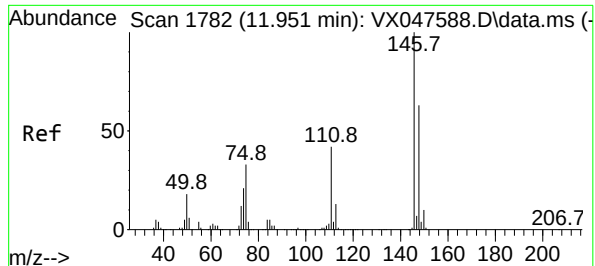
Ion Ratio Lower Upper

119 100

134 27.9 12.6 37.8

91 30.8 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 0.841 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

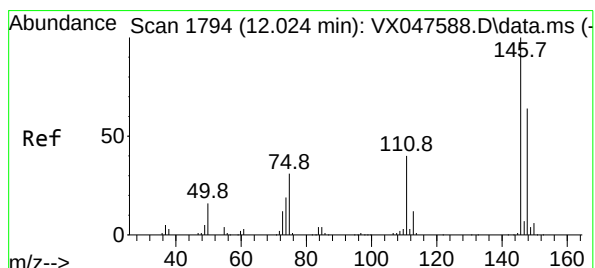
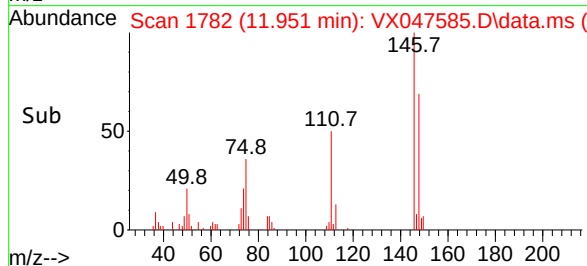
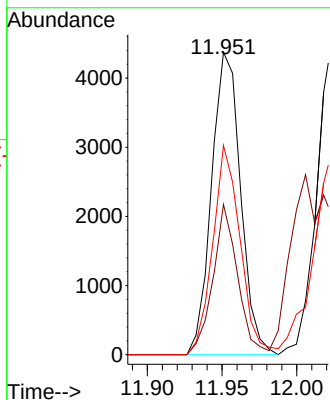
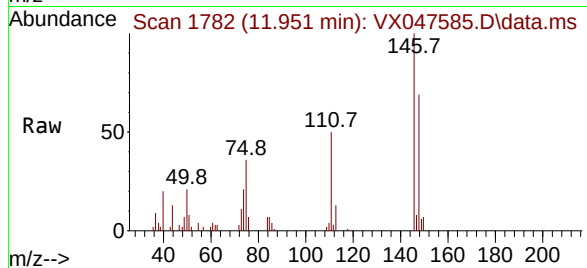
VSTDIC001

Tgt Ion:	146	Resp:	590
Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.5	64.5
148	65.5	32.0	96.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#88

1,4-Dichlorobenzene

Concen: 0.880 ug/l m

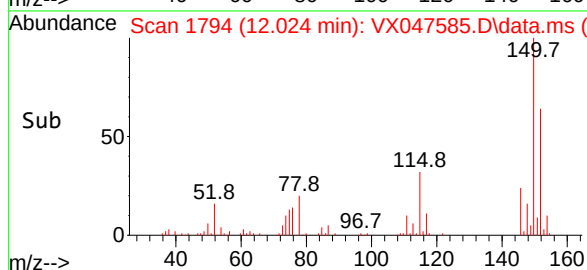
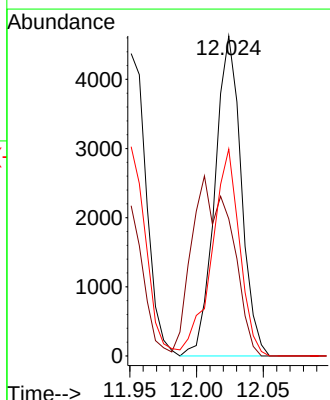
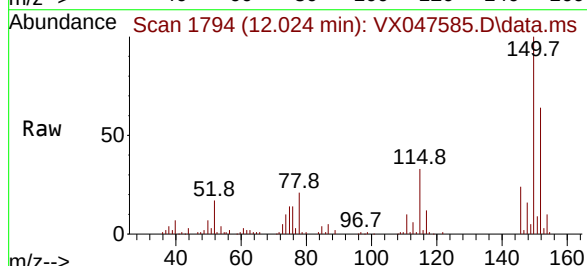
RT: 12.024 min Scan# 1794

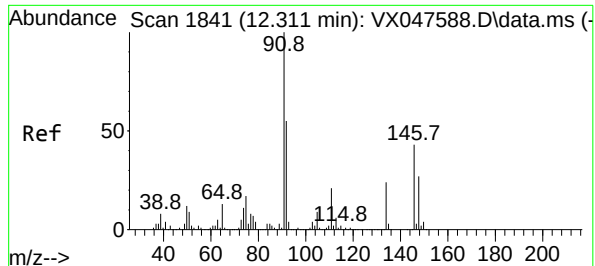
Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion:	146	Resp:	6341
Ion	Ratio	Lower	Upper
146	100		
111	39.3	20.8	62.4
148	61.1	31.7	95.1





#89

n-Butylbenzene

Concen: 0.816 ug/l

RT: 12.317 min Scan# 1842

Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

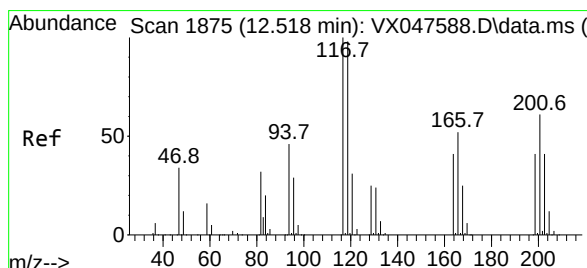
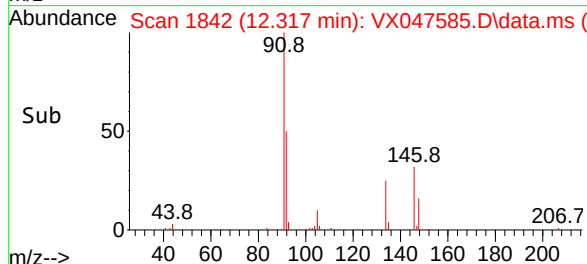
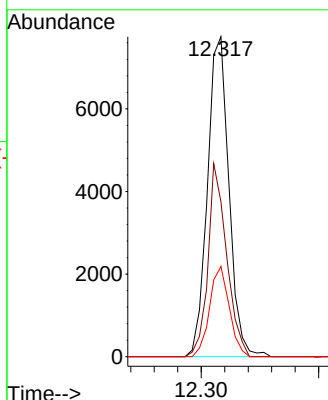
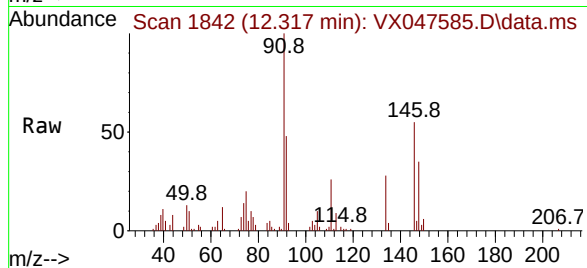
Tgt Ion:	91	Resp:	981
Ion Ratio	Lower	Upper	
91	100		
92	52.4	27.6	82.7
134	25.9	12.6	37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachloroethane

Concen: 0.768 ug/l

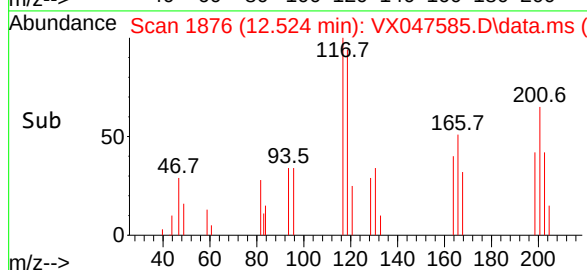
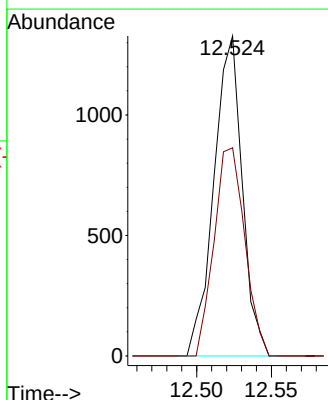
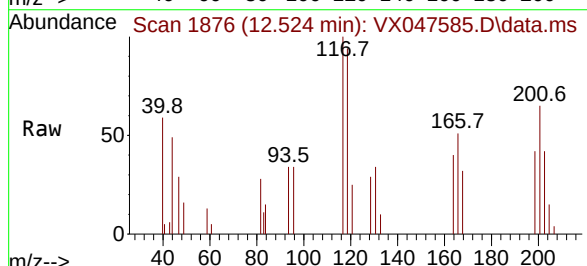
RT: 12.524 min Scan# 1876

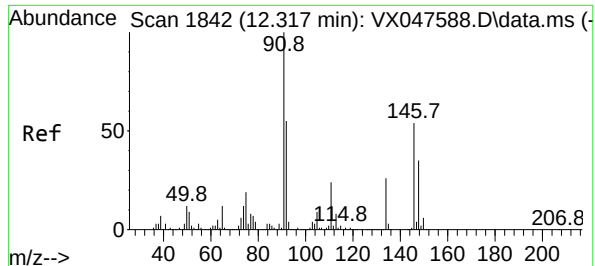
Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion:	117	Resp:	1752
Ion Ratio	Lower	Upper	
117	100		
201	70.4	34.2	102.5





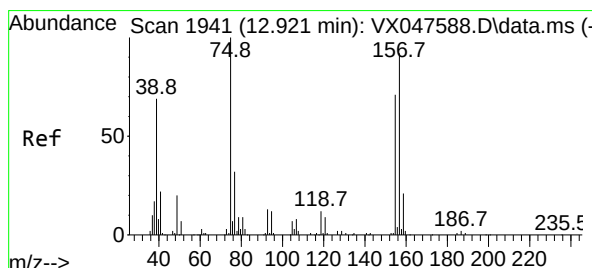
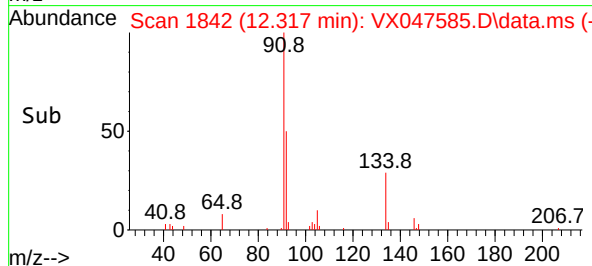
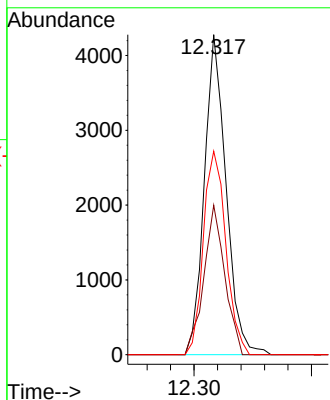
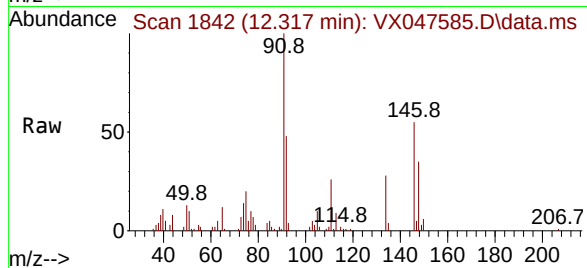
#91
1,2-Dichlorobenzene
Concen: 0.820 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 549
Ion Ratio Lower Upper
146 100
111 45.2 22.2 66.6
148 65.8 31.8 95.4

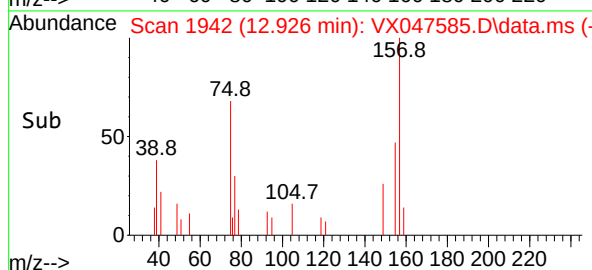
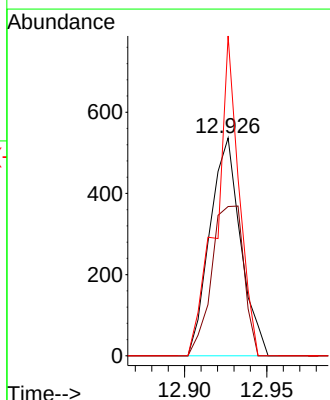
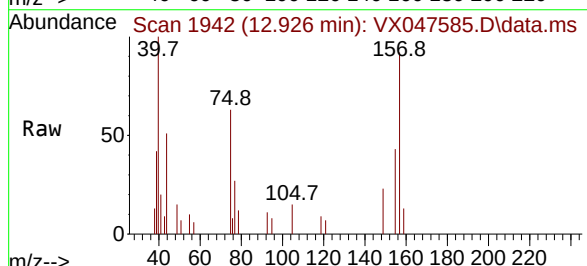
Manual Integrations
APPROVED

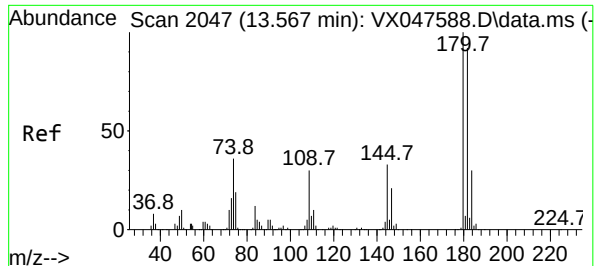
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.742 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 75 Resp: 698
Ion Ratio Lower Upper
75 100
155 72.1 37.7 113.1
157 108.7 49.8 149.4





#93

1,2,4-Trichlorobenzene

Concen: 0.772 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

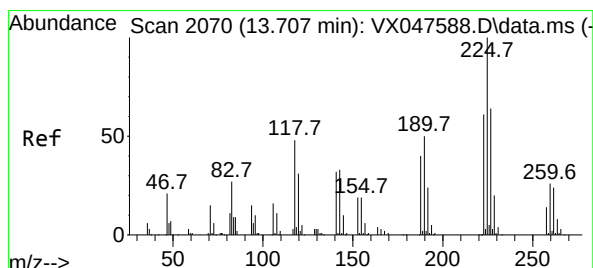
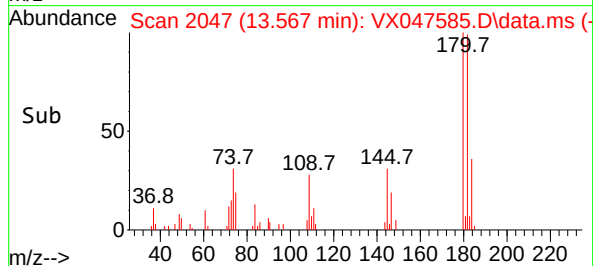
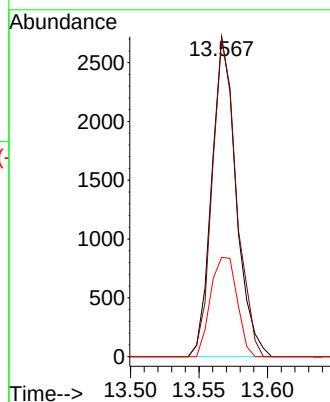
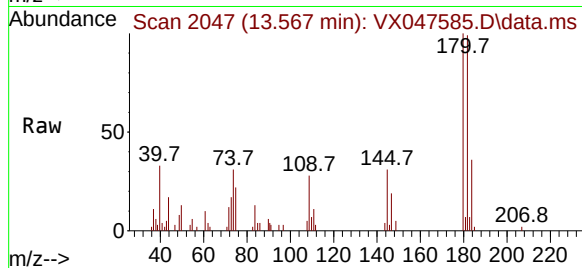
Tgt Ion:180	Resp:	335
Ion Ratio	Lower	Upper
180	100	
182	98.6	46.6 139.8
145	33.7	16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#94

Hexachlorobutadiene

Concen: 0.933 ug/l

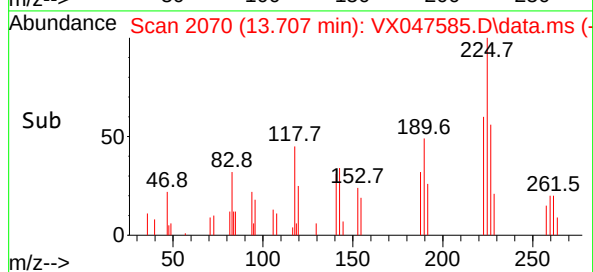
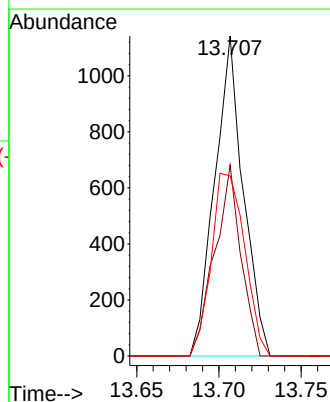
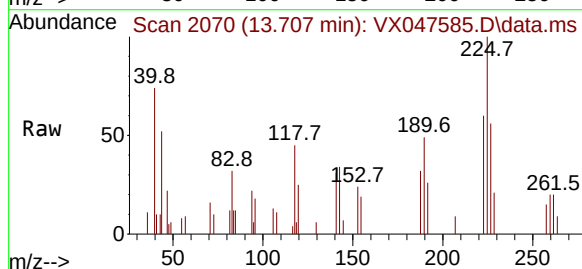
RT: 13.707 min Scan# 2070

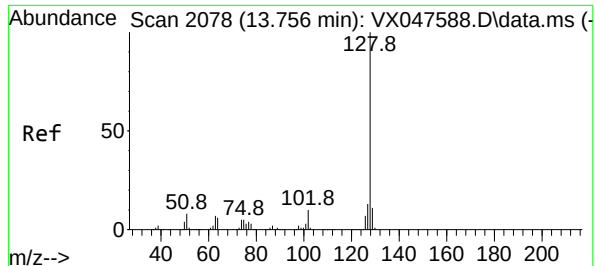
Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion:225	Resp:	1378
Ion Ratio	Lower	Upper
225	100	
223	54.8	31.7 95.1
227	66.7	32.0 96.0





#95

Naphthalene

Concen: 0.763 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

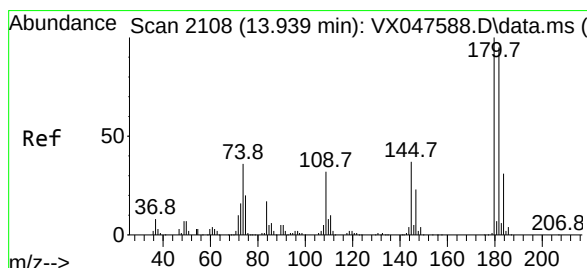
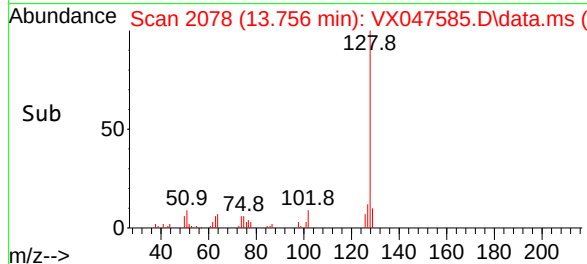
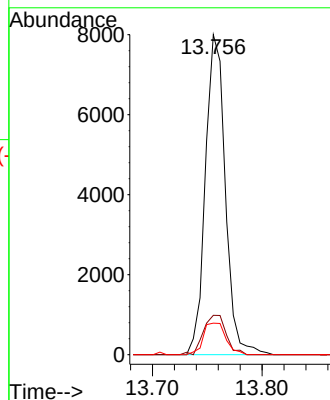
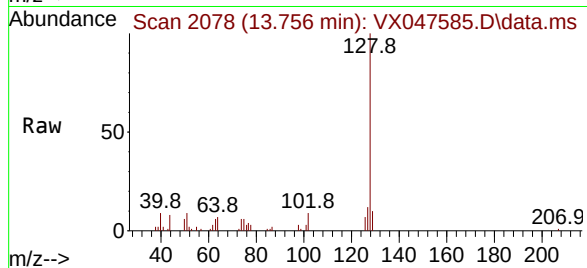
Tgt Ion:	128	Resp:	1011
Ion Ratio	Lower	Upper	
128	100		
127	14.0	10.2	15.2
129	11.2	8.8	13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#96

1,2,3-Trichlorobenzene

Concen: 0.752 ug/l

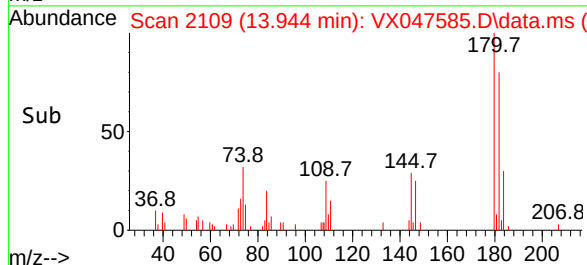
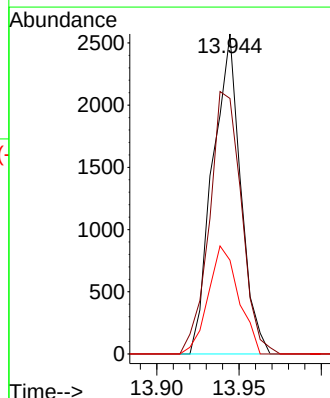
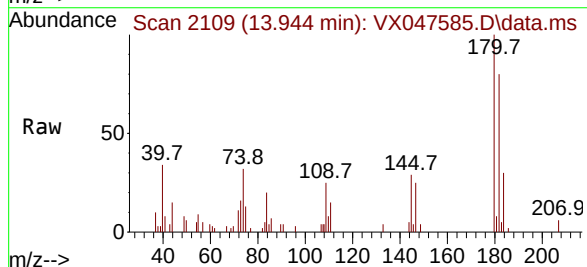
RT: 13.944 min Scan# 2109

Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion:	180	Resp:	3043
Ion Ratio	Lower	Upper	
180	100		
182	93.7	47.6	142.8
145	36.6	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047586.D
 Acq On : 16 Sep 2025 10:16
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Quant Time: Sep 17 06:10:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
 Supervised By :Mahesh Dadoda 09/18/2025

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	198376	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	355026	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	317288	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	156219	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.946	65	17538	5.554	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	11.100%#
35) Dibromofluoromethane	5.373	113	12647	5.312	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	10.620%#
50) Toluene-d8	8.635	98	43926	5.332	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	10.660%#
62) 4-Bromofluorobenzene	11.061	95	16974	5.429	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	10.860%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.173	85	11403	5.551	ug/l	93
3) Chloromethane	1.301	50	14854	5.502	ug/l	99
4) Vinyl Chloride	1.380	62	14147	5.353	ug/l	97
5) Bromomethane	1.618	94	9780	5.836	ug/l	87
6) Chloroethane	1.697	64	8926	5.053	ug/l	96
7) Trichlorofluoromethane	1.898	101	20497	5.223	ug/l	100
8) Diethyl Ether	2.136	74	8039	5.008	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.331	101	11729	5.112	ug/l	98
10) Methyl Iodide	2.453	142	17159	4.795	ug/l	98
11) Tert butyl alcohol	2.947	59	8399	23.883	ug/l	99
12) 1,1-Dichloroethene	2.325	96	12131	5.147	ug/l	91
13) Acrolein	2.239	56	7080	21.847	ug/l	95
14) Allyl chloride	2.666	41	25135	5.168	ug/l	99
15) Acrylonitrile	3.062	53	32587	25.016	ug/l	99
16) Acetone	2.374	43	41297	30.079	ug/l	97
17) Carbon Disulfide	2.514	76	34426	5.335	ug/l	100
18) Methyl Acetate	2.703	43	13357	4.371	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	44396	5.160	ug/l	98
20) Methylene Chloride	2.788	84	15307	5.267	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	13937	5.492	ug/l	97
22) Diisopropyl ether	3.757	45	50213	5.327	ug/l	98
23) Vinyl Acetate	3.715	43	192175	25.474	ug/l	99
24) 1,1-Dichloroethane	3.611	63	26292	5.248	ug/l	97
25) 2-Butanone	4.544	43	46651	27.240	ug/l	92
26) 2,2-Dichloropropane	4.465	77	21738	5.220	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	15996	5.147	ug/l	98
28) Bromochloromethane	4.891	49	12047	5.508	ug/l	95
29) Tetrahydrofuran	4.995	42	26729	25.944	ug/l	92
30) Chloroform	5.080	83	27054	5.344	ug/l	99
31) Cyclohexane	5.458	56	23032	5.520	ug/l	94
32) 1,1,1-Trichloroethane	5.367	97	22279	5.188	ug/l	96
36) 1,1-Dichloropropene	5.684	75	18455	5.304	ug/l	98
37) Ethyl Acetate	4.708	43	19913	5.345	ug/l #	97
38) Carbon Tetrachloride	5.666	117	20376	5.390	ug/l	96
39) Methylcyclohexane	7.367	83	20900	5.292	ug/l	97
40) Benzene	6.019	78	55996	5.299	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047586.D
 Acq On : 16 Sep 2025 10:16
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Quant Time: Sep 17 06:10:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.904	41	9390	4.883	ug/l	95
42) 1,2-Dichloroethane	6.074	62	21117	5.252	ug/l	99
43) Isopropyl Acetate	6.324	43	31304	5.124	ug/l	99
44) Trichloroethene	7.111	130	13576	5.314	ug/l	97
45) 1,2-Dichloropropane	7.415	63	14305	5.287	ug/l	99
46) Dibromomethane	7.568	93	10133	5.146	ug/l	99
47) Bromodichloromethane	7.806	83	21270	5.235	ug/l	99
48) Methyl methacrylate	7.677	41	14959	4.915	ug/l	99
49) 1,4-Dioxane	7.653	88	3017	98.096	ug/l #	90
51) 4-Methyl-2-Pentanone	8.555	43	87492	25.828	ug/l	100
52) Toluene	8.702	92	34314	5.271	ug/l	98
53) t-1,3-Dichloropropene	8.964	75	20863	5.034	ug/l	97
54) cis-1,3-Dichloropropene	8.354	75	23157	5.227	ug/l	98
55) 1,1,2-Trichloroethane	9.135	97	12968	5.166	ug/l	91
56) Ethyl methacrylate	9.104	69	19980	5.068	ug/l	97
57) 1,3-Dichloropropane	9.293	76	22989	5.331	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	37585	27.899	ug/l	98
59) 2-Hexanone	9.415	43	66356	27.275	ug/l	99
60) Dibromochloromethane	9.506	129	14705	5.084	ug/l	95
61) 1,2-Dibromoethane	9.592	107	13461	5.264	ug/l	98
64) Tetrachloroethene	9.256	164	11228	5.428	ug/l	97
65) Chlorobenzene	10.061	112	37507	5.203	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.147	131	12807	5.149	ug/l	99
67) Ethyl Benzene	10.177	91	65908	5.299	ug/l	100
68) m/p-Xylenes	10.287	106	49132	10.613	ug/l	99
69) o-Xylene	10.628	106	23300	5.204	ug/l	98
70) Styrene	10.640	104	40872	5.210	ug/l	99
71) Bromoform	10.781	173	9298	5.006	ug/l #	97
73) Isopropylbenzene	10.945	105	61029	5.139	ug/l	100
74) N-amyl acetate	10.823	43	26969	4.980	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.195	83	18462	5.138	ug/l	98
76) 1,2,3-Trichloropropane	11.220	75	15982m	4.927	ug/l	
77) Bromobenzene	11.183	156	15066	5.150	ug/l	99
78) n-propylbenzene	11.287	91	72900	5.192	ug/l	100
79) 2-Chlorotoluene	11.348	91	44663	5.194	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	50535	5.179	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	5413	4.364	ug/l	91
82) 4-Chlorotoluene	11.439	91	52294	5.149	ug/l	100
83) tert-Butylbenzene	11.695	119	50350	5.041	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	51583	5.214	ug/l	100
85) sec-Butylbenzene	11.872	105	62507	5.268	ug/l	99
86) p-Isopropyltoluene	11.994	119	52674	5.244	ug/l	98
87) 1,3-Dichlorobenzene	11.951	146	28116	5.175	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	29519	5.294	ug/l	93
89) n-Butylbenzene	12.317	91	47953	5.159	ug/l	99
90) Hexachloroethane	12.518	117	8830	5.007	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	26409	5.102	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	3412	4.690	ug/l	99
93) 1,2,4-Trichlorobenzene	13.567	180	17167	5.103	ug/l	98
94) Hexachlorobutadiene	13.707	225	5894	5.158	ug/l	99
95) Naphthalene	13.756	128	49257	4.808	ug/l	99
96) 1,2,3-Trichlorobenzene	13.939	180	15400	4.921	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047586.D
Acq On : 16 Sep 2025 10:16
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 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:10:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

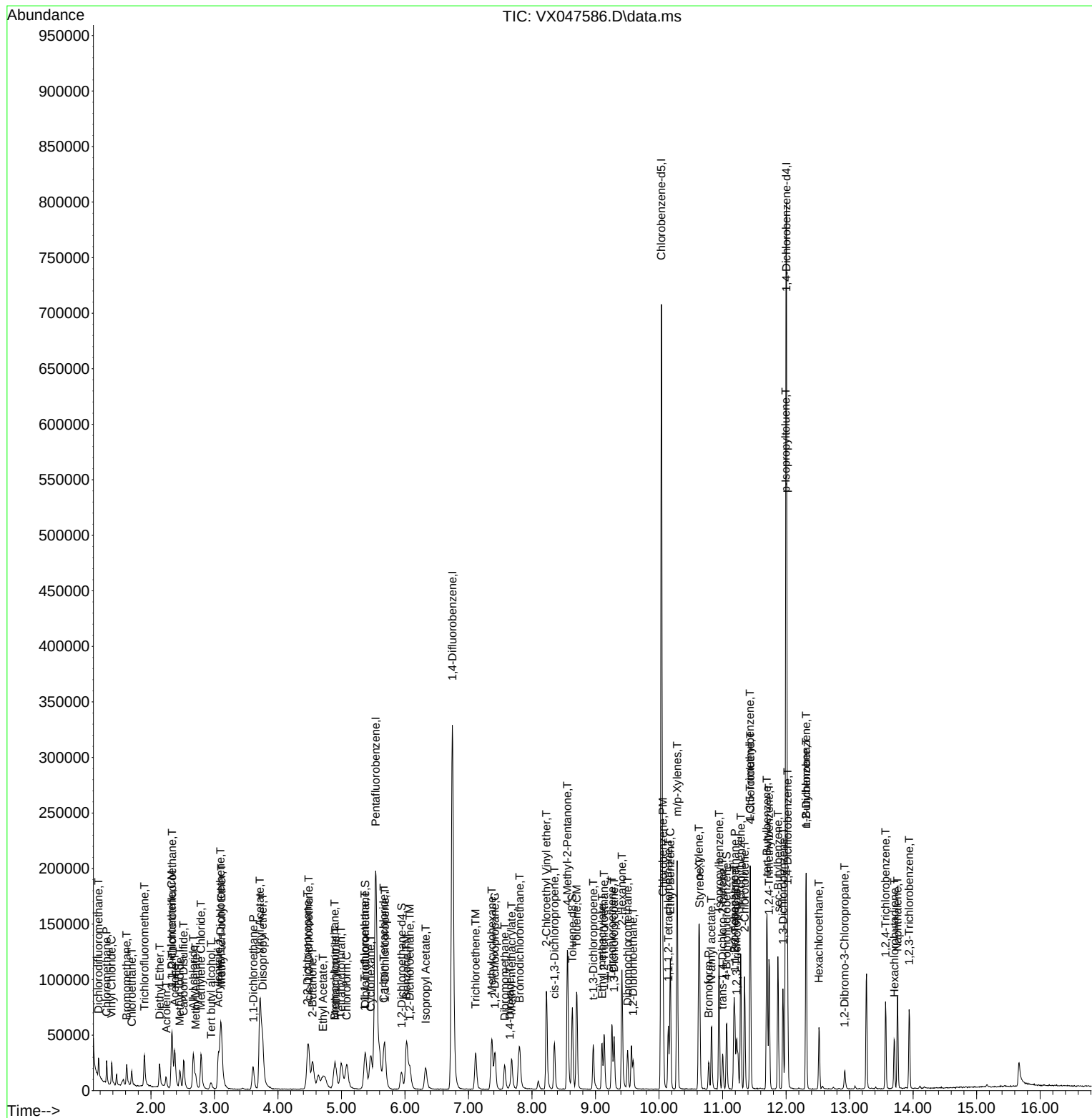
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

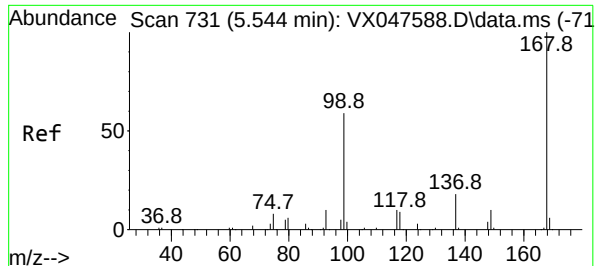
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations

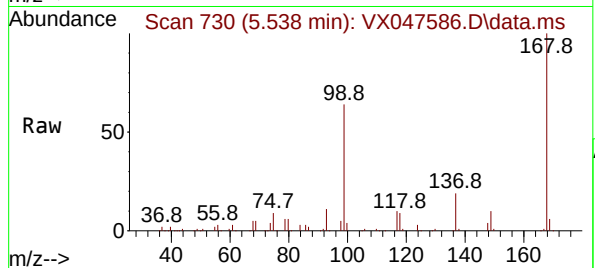
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

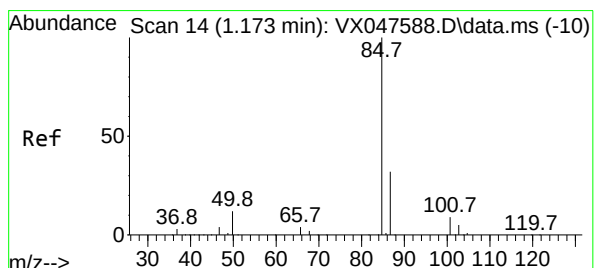
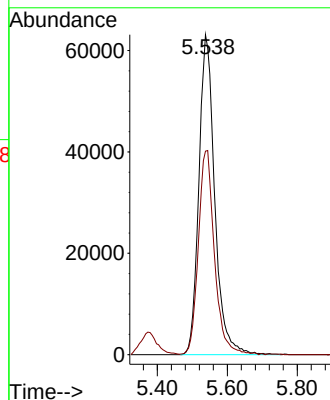
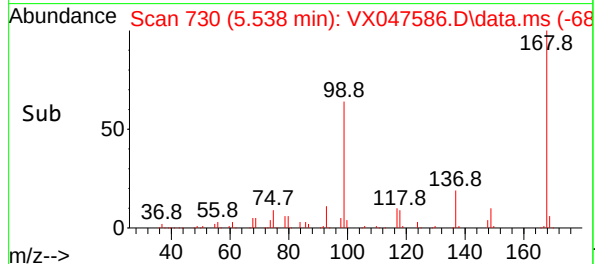
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:168 Resp: 198370
Ion Ratio Lower Upper
168 100
99 63.5 48.8 73.2

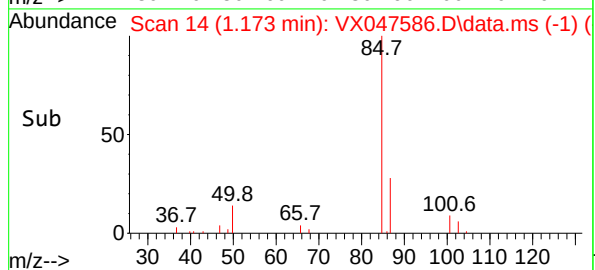
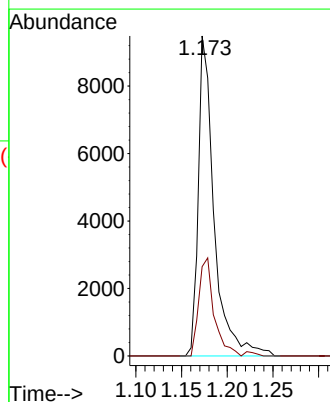
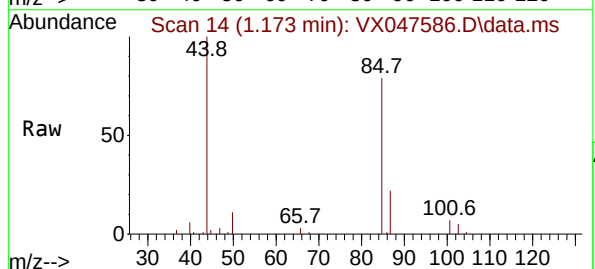
Manual Integrations
APPROVED

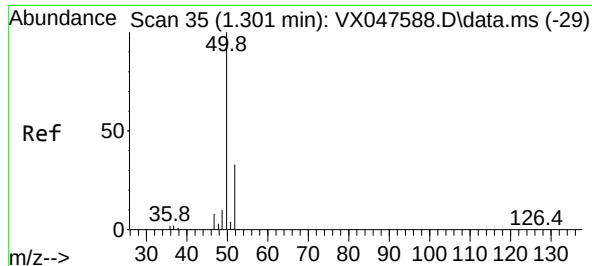
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#2
Dichlorodifluoromethane
Concen: 5.551 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 85 Resp: 11403
Ion Ratio Lower Upper
85 100
87 27.9 15.8 47.3





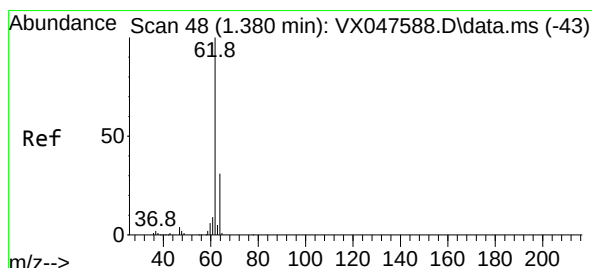
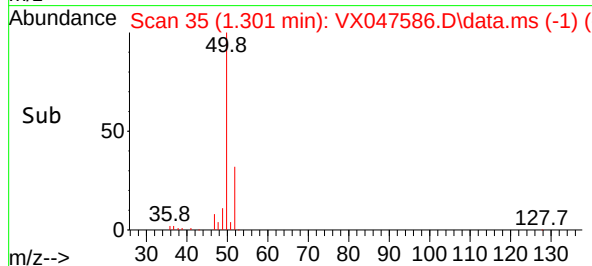
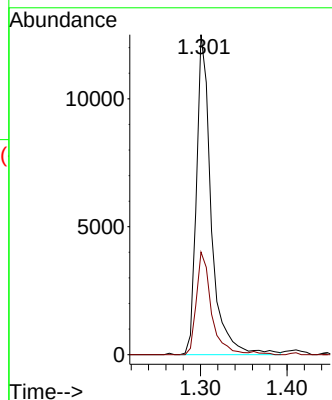
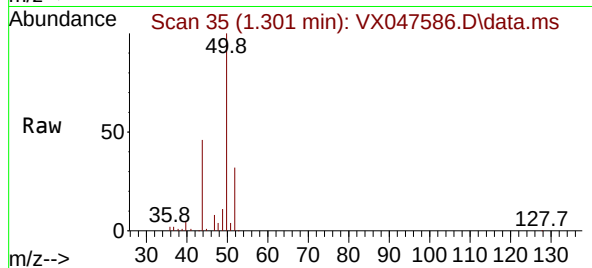
#3
Chloromethane
Concen: 5.502 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion: 50 Resp: 14854
Ion Ratio Lower Upper
50 100
52 32.0 26.1 39.1

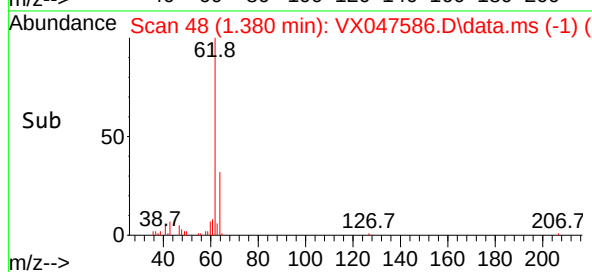
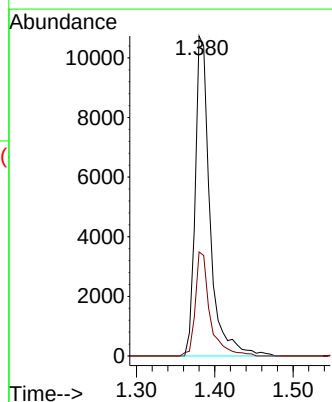
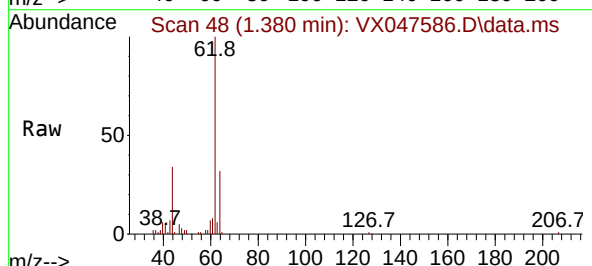
Manual Integrations
APPROVED

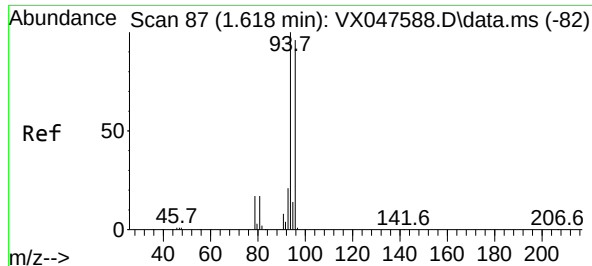
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#4
Vinyl Chloride
Concen: 5.353 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 62 Resp: 14147
Ion Ratio Lower Upper
62 100
64 32.5 24.9 37.3





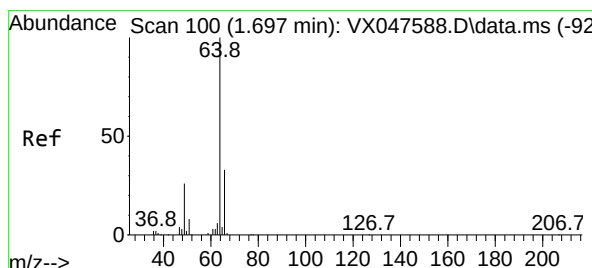
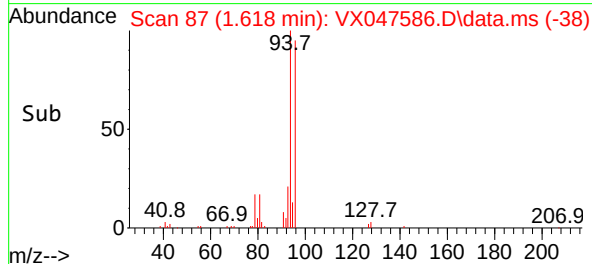
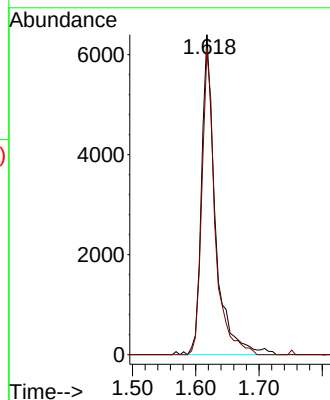
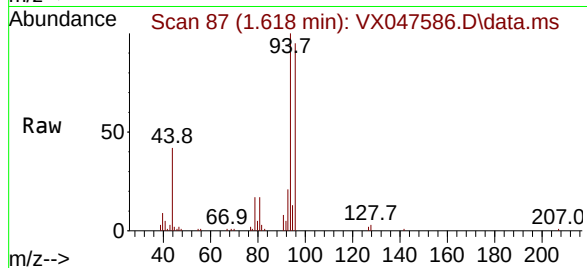
#5
Bromomethane
Concen: 5.836 ug/l
RT: 1.618 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 9780
Ion Ratio Lower Upper
94 100
96 83.6 76.6 115.0

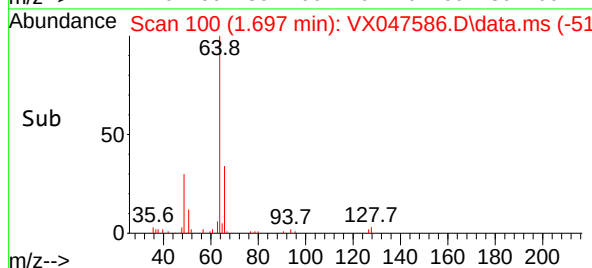
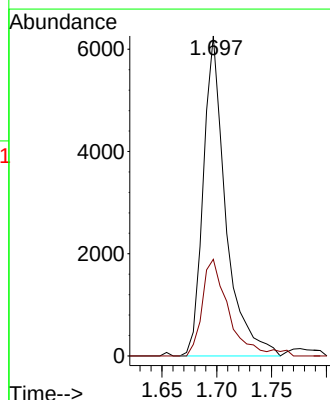
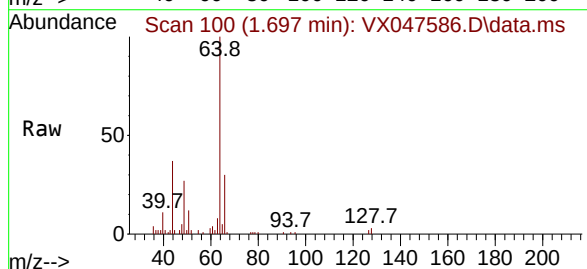
Manual Integrations
APPROVED

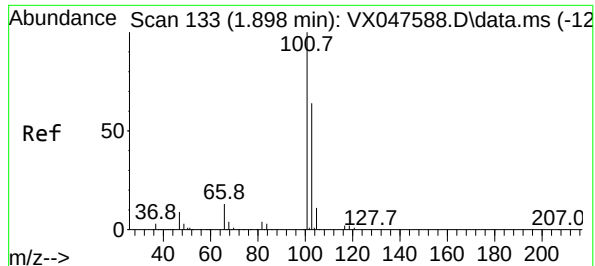
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#6
Chloroethane
Concen: 5.053 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

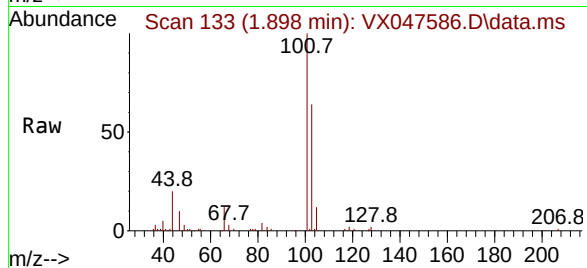
Tgt Ion: 64 Resp: 8926
Ion Ratio Lower Upper
64 100
66 30.2 26.1 39.1





#7
Trichlorofluoromethane
Concen: 5.223 ug/l
RT: 1.898 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

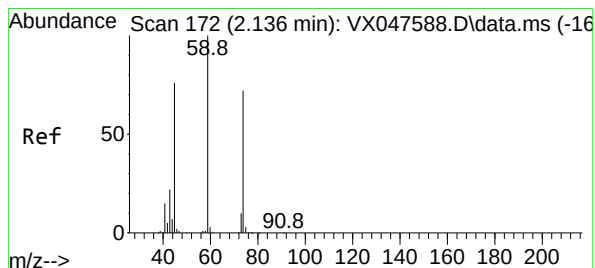
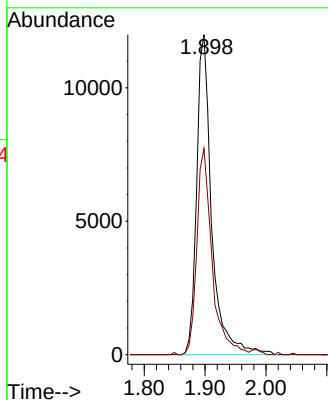
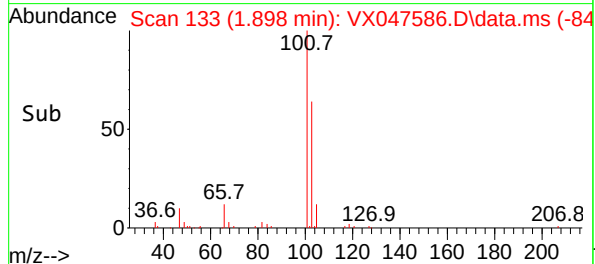
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 101 Resp: 2049
Ion Ratio Lower Upper
101 100
103 64.4 51.4 77.2

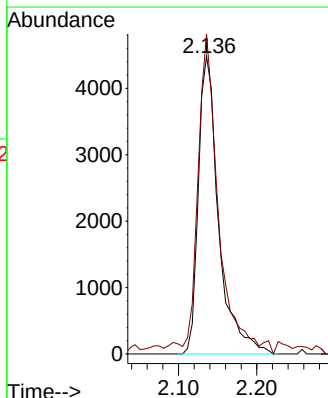
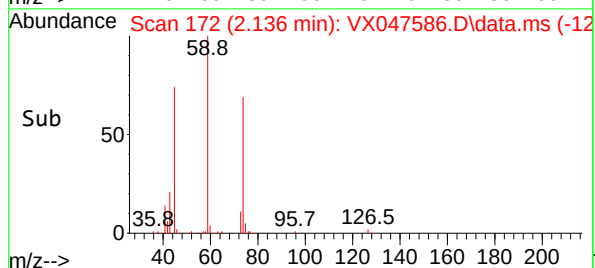
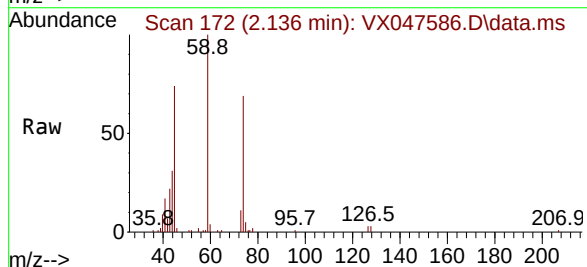
Manual Integrations
APPROVED

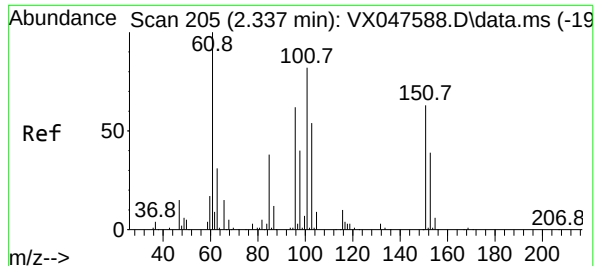
Reviewed By : John Carlone 09/17/2025
Supervised By : Mahesh Dadoda 09/18/2025



#8
Diethyl Ether
Concen: 5.008 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 74 Resp: 8039
Ion Ratio Lower Upper
74 100
45 111.7 52.3 156.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.112 ug/l

RT: 2.331 min Scan# 205

Delta R.T. -0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

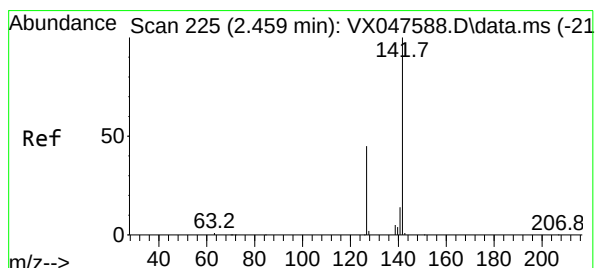
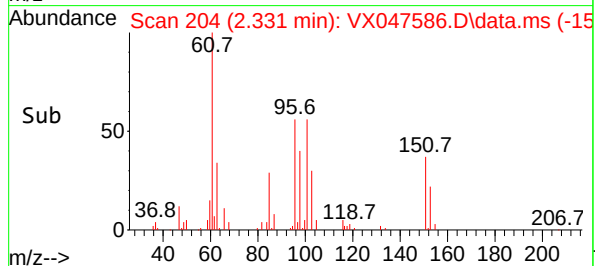
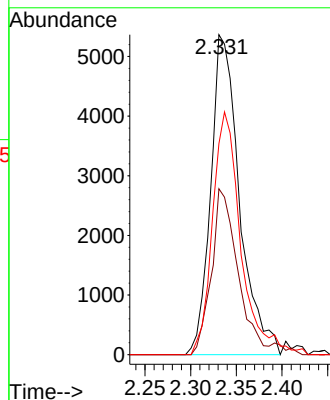
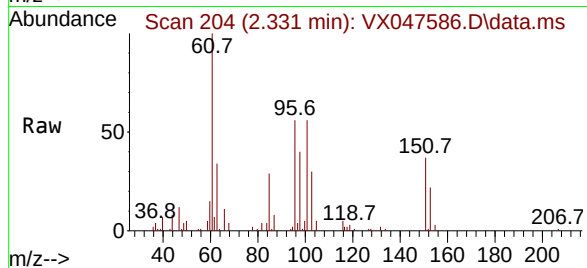
Tgt Ion:	101	Resp:	11729
Ion	Ratio	Lower	Upper
101	100		
85	47.5	35.5	53.3
151	75.0	59.4	89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#10

Methyl Iodide

Concen: 4.795 ug/l

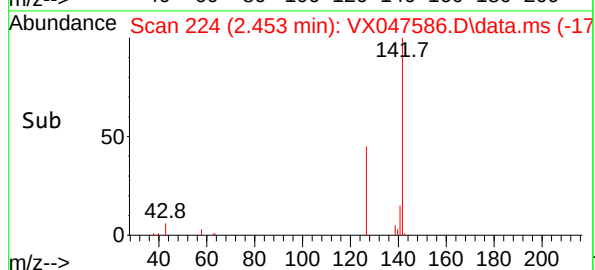
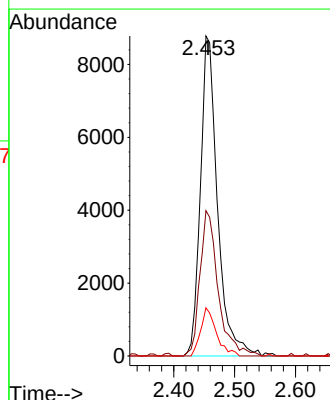
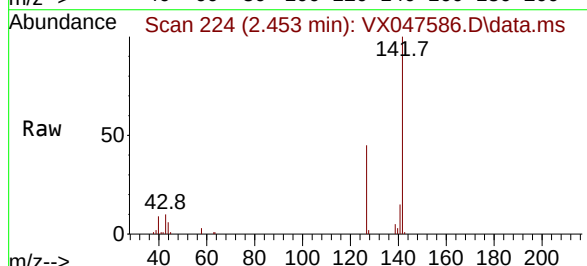
RT: 2.453 min Scan# 224

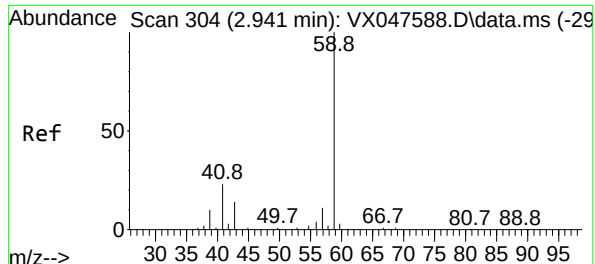
Delta R.T. -0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	142	Resp:	17159
Ion	Ratio	Lower	Upper
142	100		
127	48.4	37.2	55.8
141	13.8	11.4	17.0





#11

Tert butyl alcohol

Concen: 23.883 ug/l

RT: 2.947 min Scan# 304

Delta R.T. 0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 8399

Ion Ratio Lower Upper

59 100

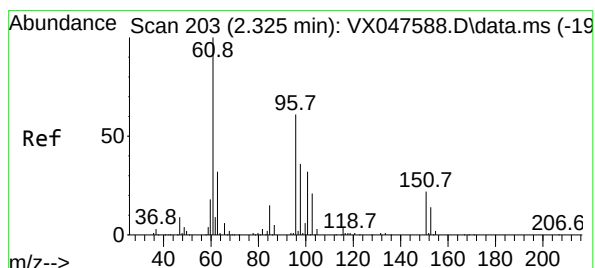
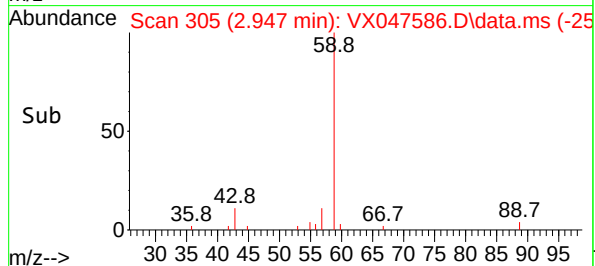
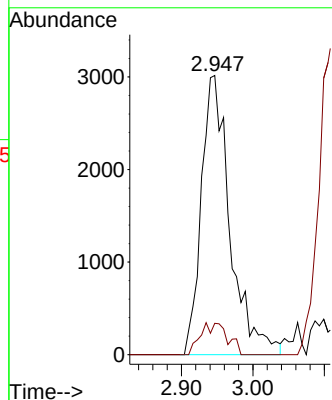
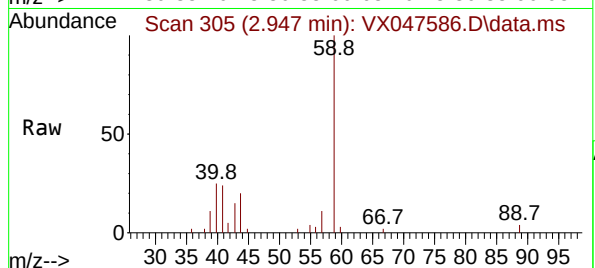
57 10.8 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#12

1,1-Dichloroethene

Concen: 5.147 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

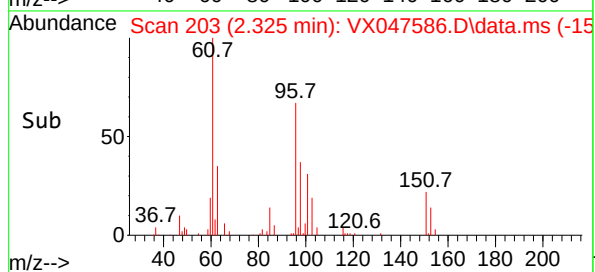
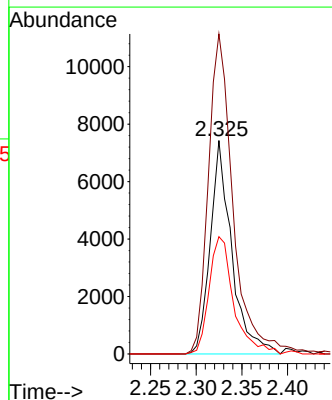
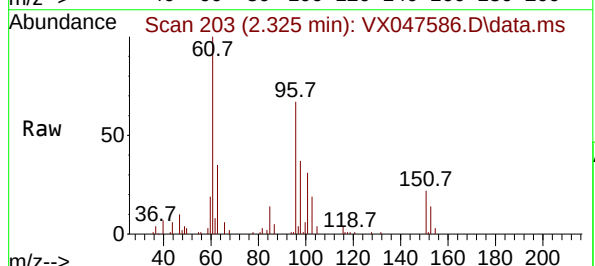
Tgt Ion: 96 Resp: 12131

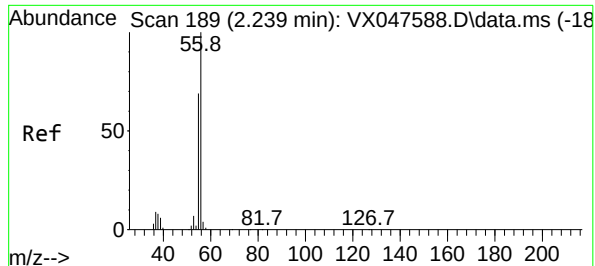
Ion Ratio Lower Upper

96 100

61 149.9 131.0 196.6

98 54.9 47.7 71.5





#13

Acrolein

Concen: 21.847 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 7080

Ion Ratio Lower Upper

56 100

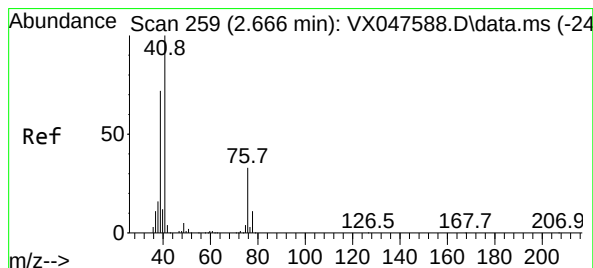
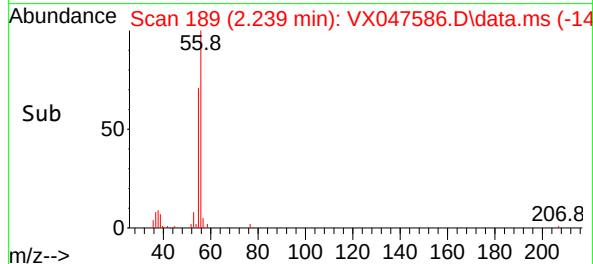
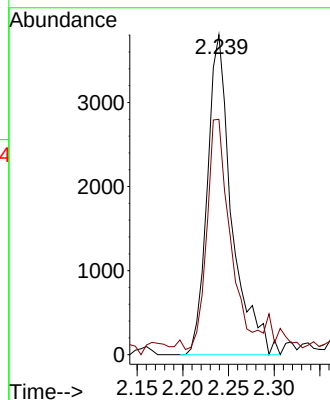
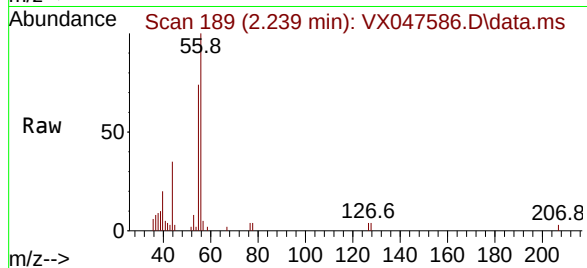
55 67.1 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#14

Allyl chloride

Concen: 5.168 ug/l

RT: 2.666 min Scan# 259

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

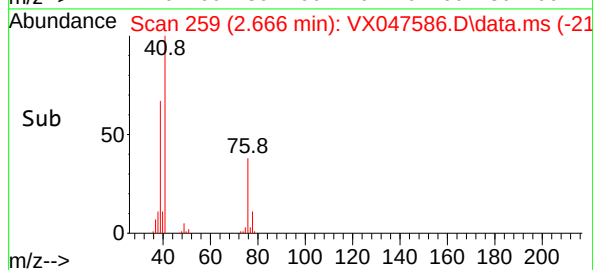
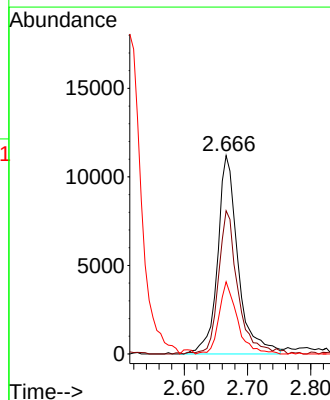
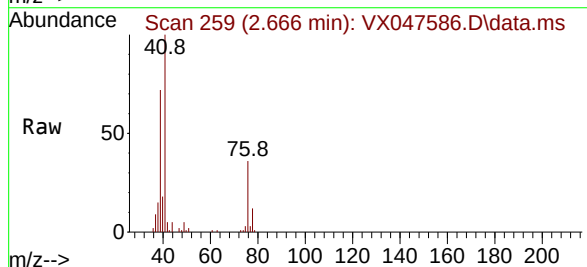
Tgt Ion: 41 Resp: 25135

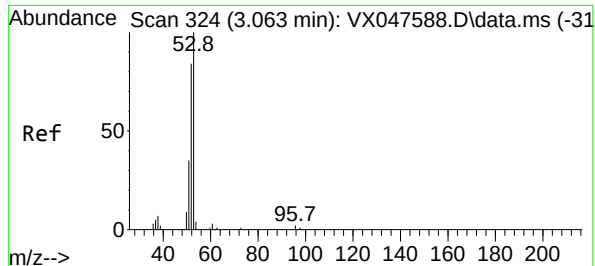
Ion Ratio Lower Upper

41 100

39 69.1 54.7 82.1

76 32.4 25.7 38.5





#15

Acrylonitrile

Concen: 25.016 ug/l

RT: 3.062 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

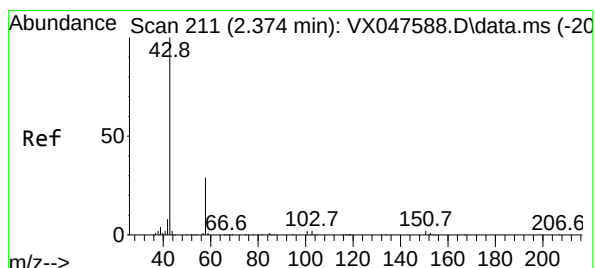
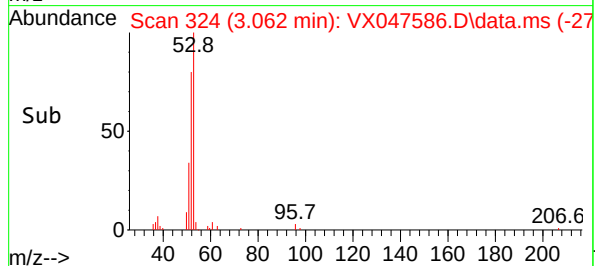
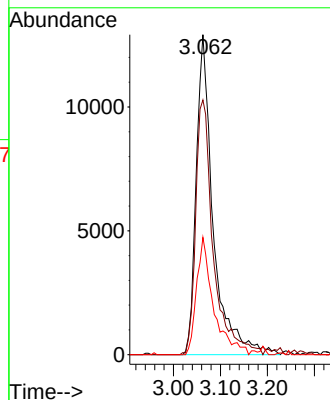
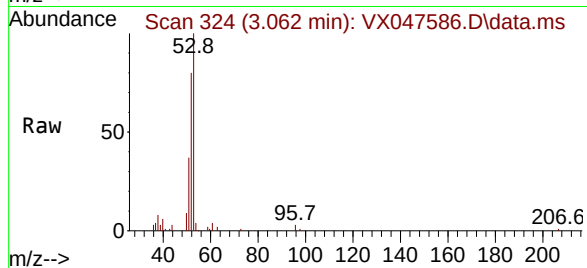
VSTDICC005

Tgt Ion:	53	Resp:	3258
Ion	Ratio	Lower	Upper
53	100		
52	82.2	66.4	99.6
51	36.5	29.5	44.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#16

Acetone

Concen: 30.079 ug/l

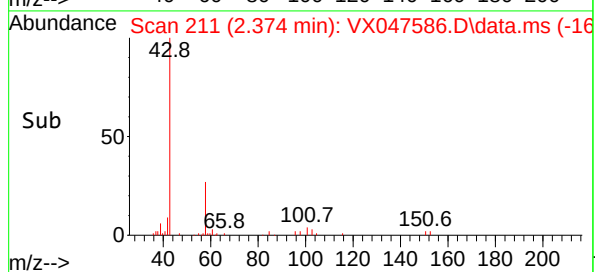
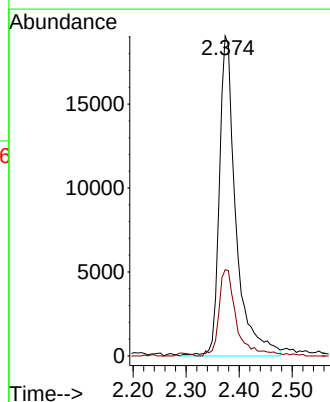
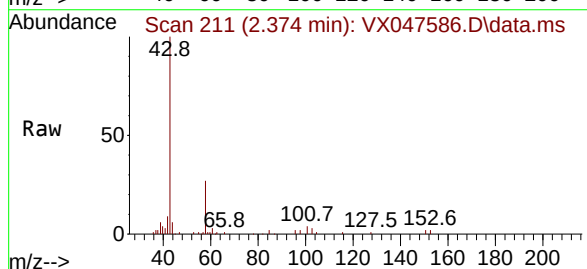
RT: 2.374 min Scan# 211

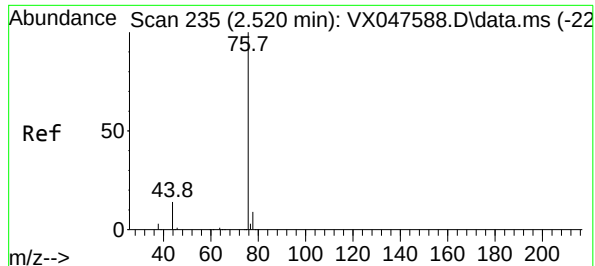
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	43	Resp:	41297
Ion	Ratio	Lower	Upper
43	100		
58	27.6	23.4	35.0





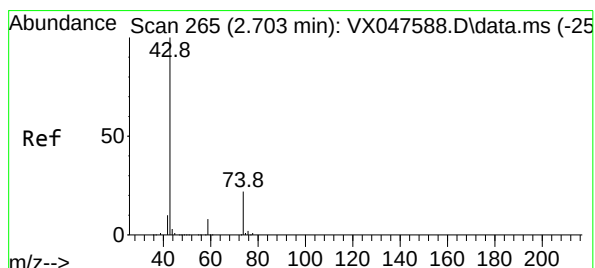
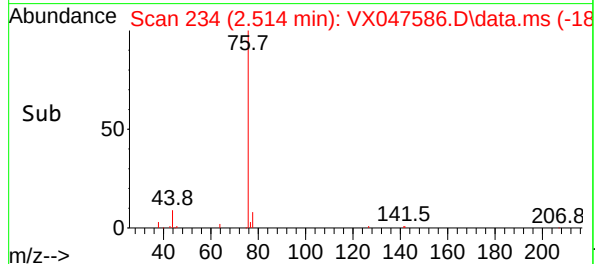
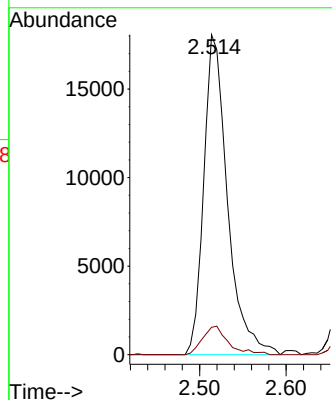
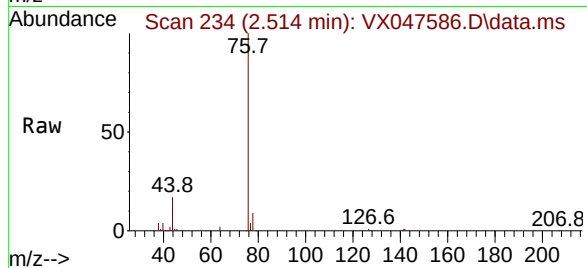
#17
Carbon Disulfide
Concen: 5.335 ug/l
RT: 2.514 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 34420
Ion Ratio Lower Upper
76 100
78 8.6 6.8 10.2

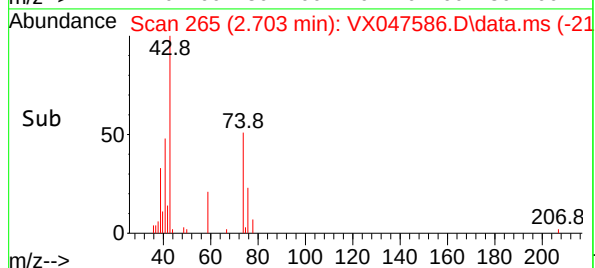
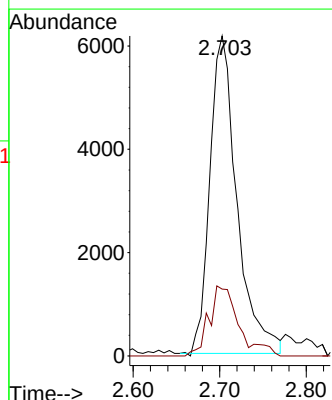
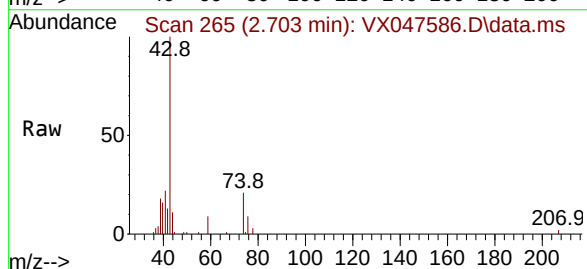
Manual Integrations
APPROVED

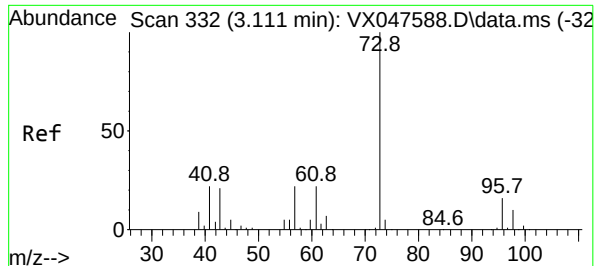
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#18
Methyl Acetate
Concen: 4.371 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 13357
Ion Ratio Lower Upper
43 100
74 22.9 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 5.160 ug/l

RT: 3.111 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 44390

Ion Ratio Lower Upper

73 100

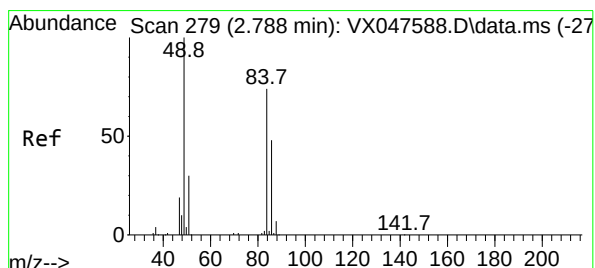
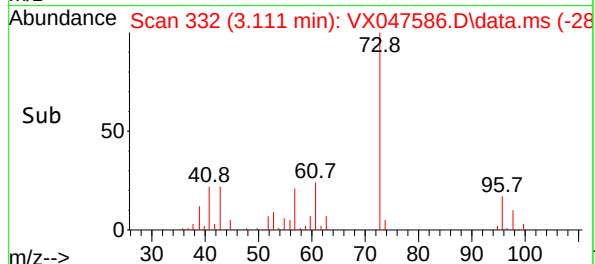
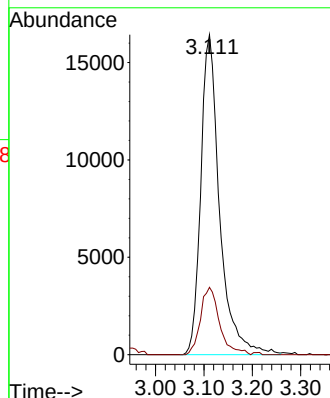
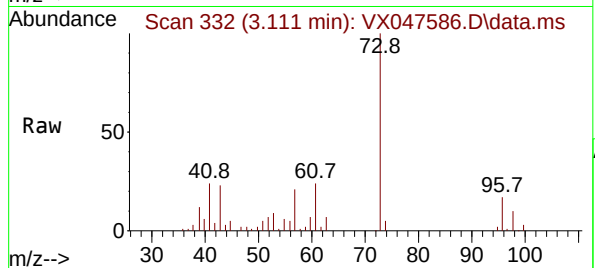
57 21.0 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#20

Methylene Chloride

Concen: 5.267 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion: 84 Resp: 15307

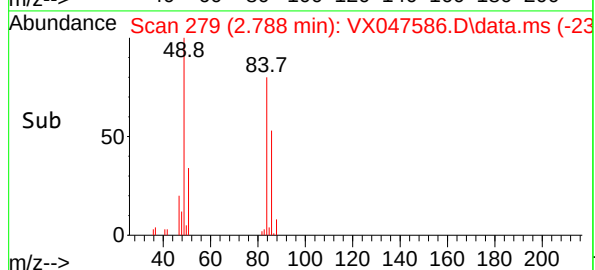
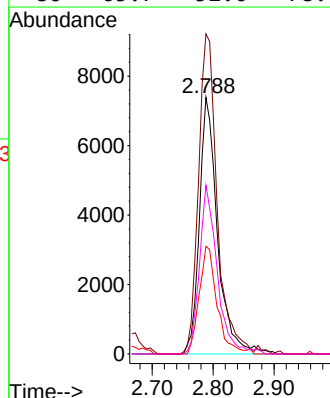
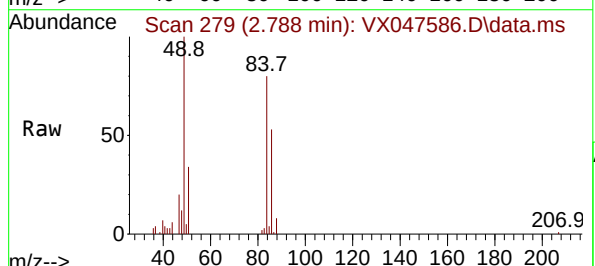
Ion Ratio Lower Upper

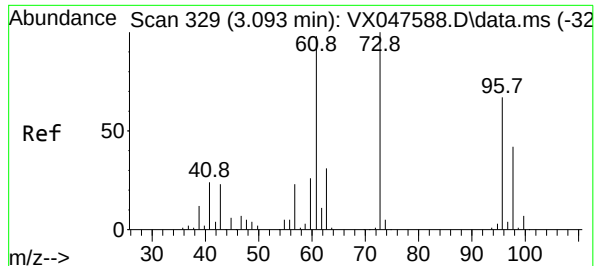
84 100

49 124.7 108.6 162.8

51 42.0 32.6 48.8

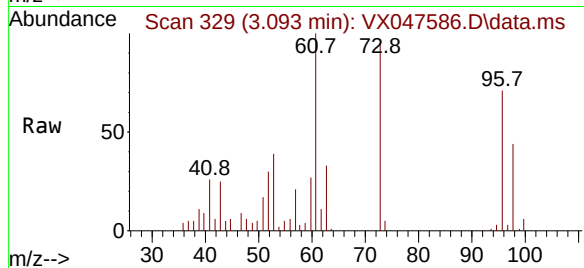
86 65.7 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 5.492 ug/l
RT: 3.093 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

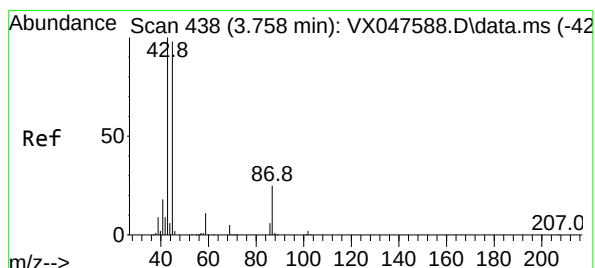
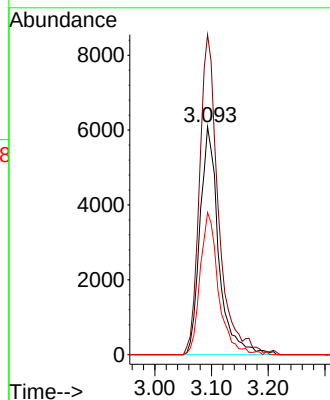
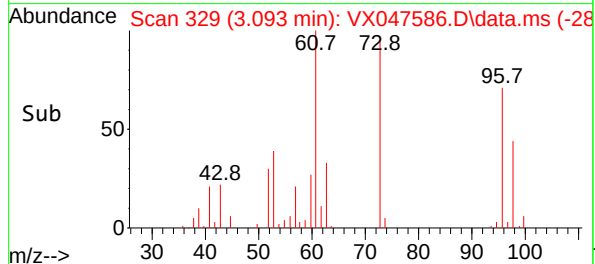
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 96 Resp: 1393
Ion Ratio Lower Upper
96 100
61 140.4 116.2 174.2
98 62.4 49.3 73.9

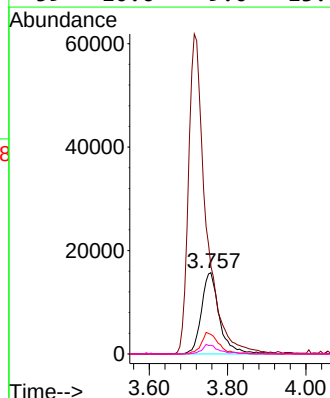
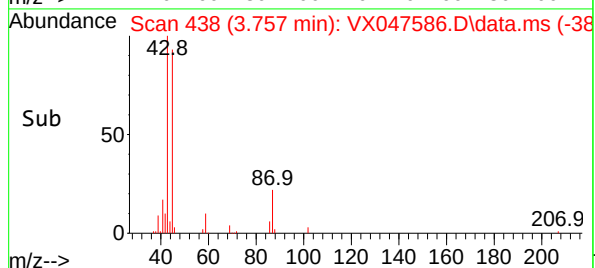
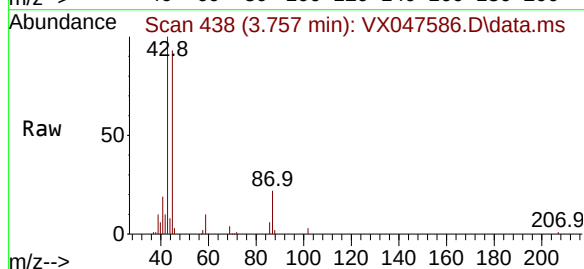
Manual Integrations
APPROVED

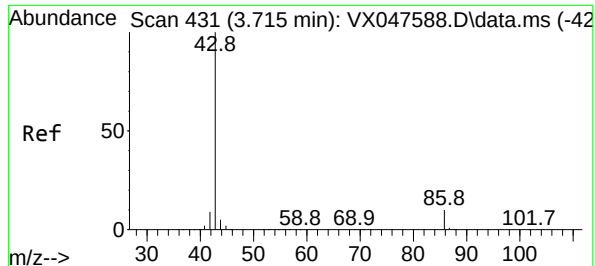
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#22
Diisopropyl ether
Concen: 5.327 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 45 Resp: 50213
Ion Ratio Lower Upper
45 100
43 102.8 81.0 121.4
87 23.3 20.3 30.5
59 10.6 9.0 13.4





#23

Vinyl Acetate

Concen: 25.474 ug/l

RT: 3.715 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 19217

Ion Ratio Lower Upper

43 100

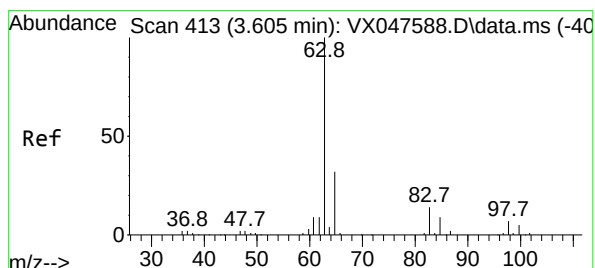
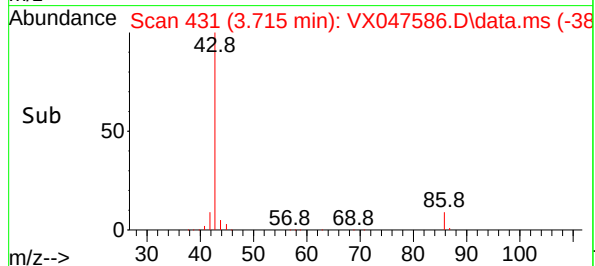
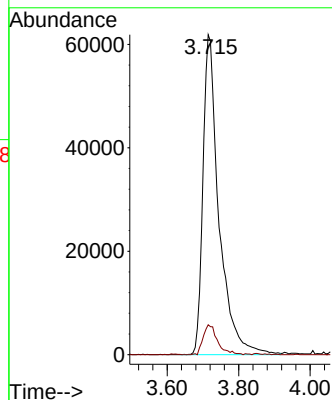
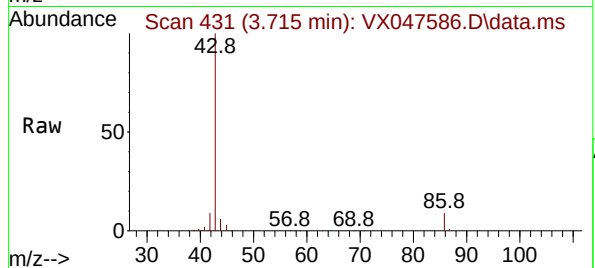
86 9.4 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#24

1,1-Dichloroethane

Concen: 5.248 ug/l

RT: 3.611 min Scan# 414

Delta R.T. 0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

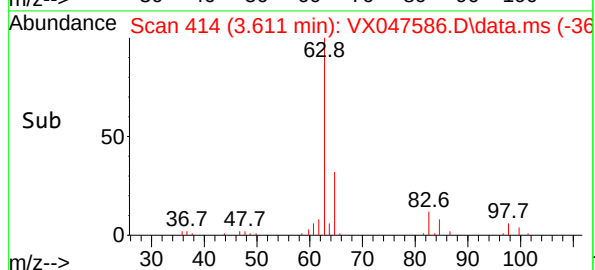
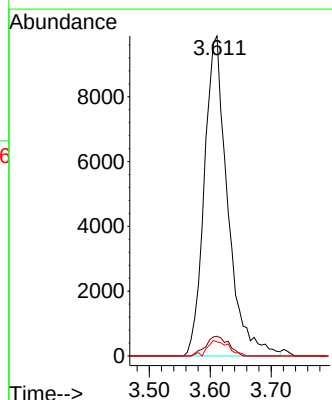
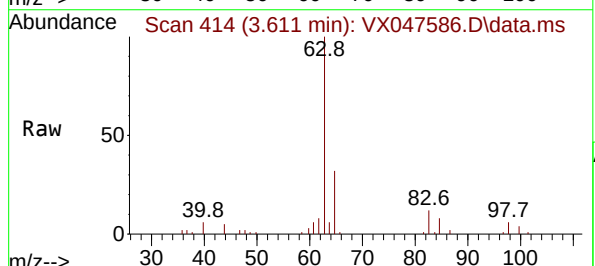
Tgt Ion: 63 Resp: 26292

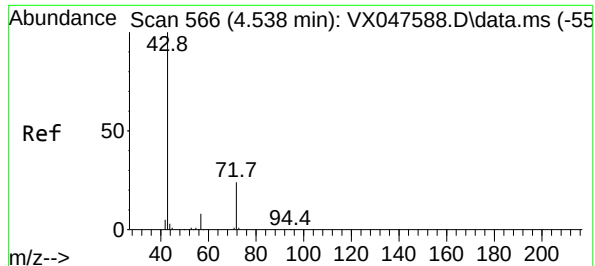
Ion Ratio Lower Upper

63 100

98 6.2 3.8 11.2

100 4.4 2.3 6.9





#25

2-Butanone

Concen: 27.240 ug/l

RT: 4.544 min Scan# 50

Delta R.T. 0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 4665

Ion Ratio Lower Upper

43 100

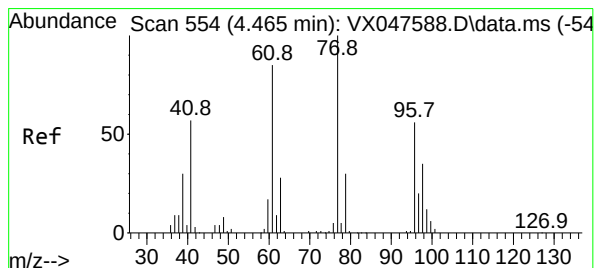
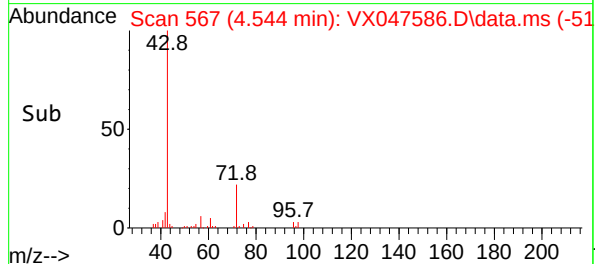
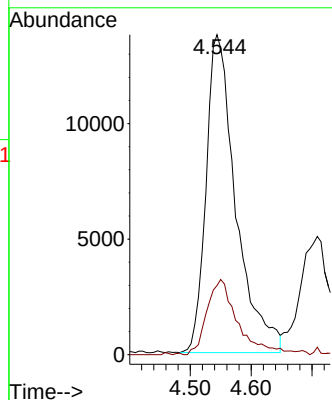
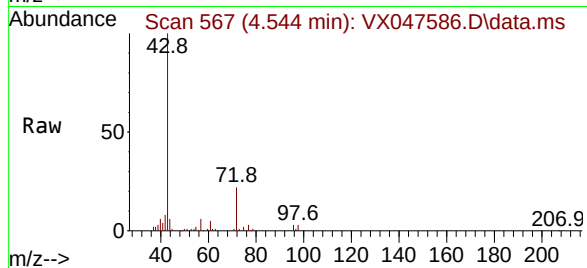
72 21.3 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#26

2,2-Dichloropropane

Concen: 5.220 ug/l

RT: 4.465 min Scan# 554

Delta R.T. -0.000 min

Lab File: VX047586.D

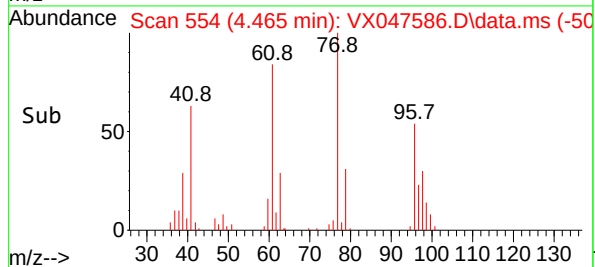
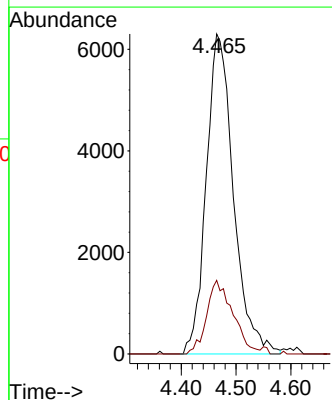
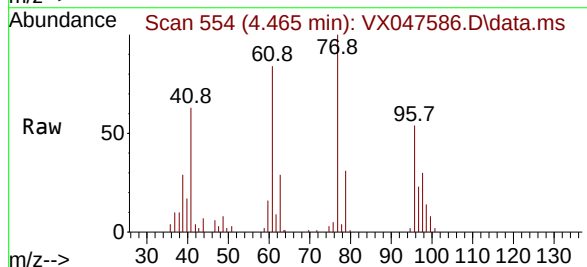
Acq: 16 Sep 2025 10:16

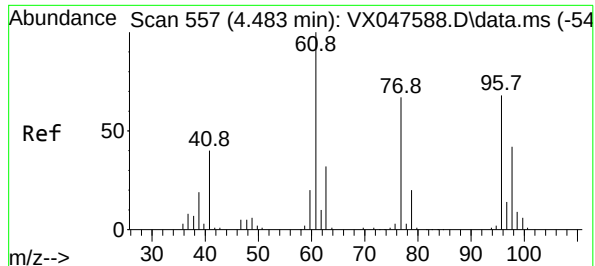
Tgt Ion: 77 Resp: 21738

Ion Ratio Lower Upper

77 100

97 22.2 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 5.147 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 96 Resp: 15990

Ion Ratio Lower Upper

96 100

61 154.4 0.0 303.2

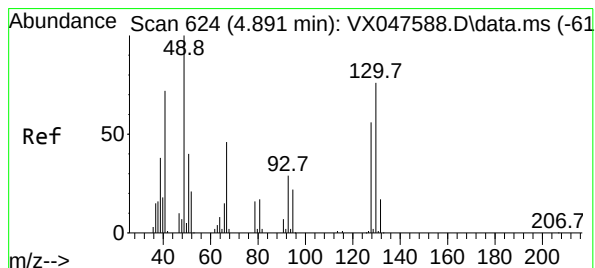
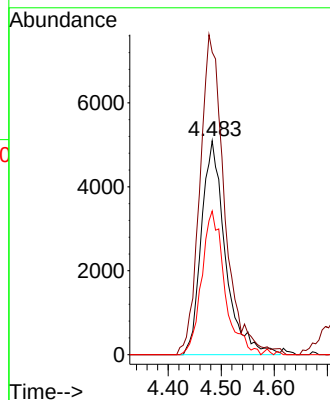
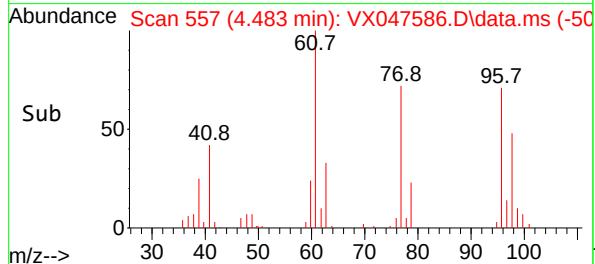
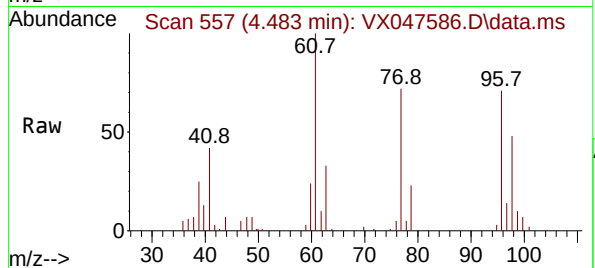
98 64.8 0.0 127.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#28

Bromochloromethane

Concen: 5.508 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

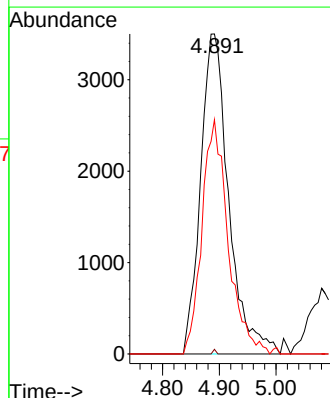
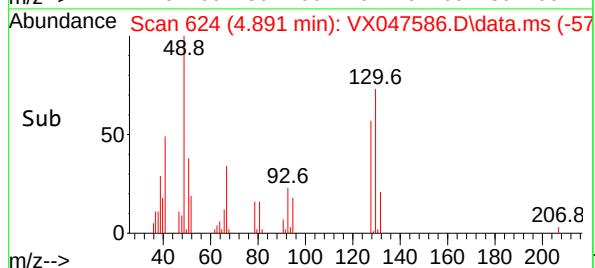
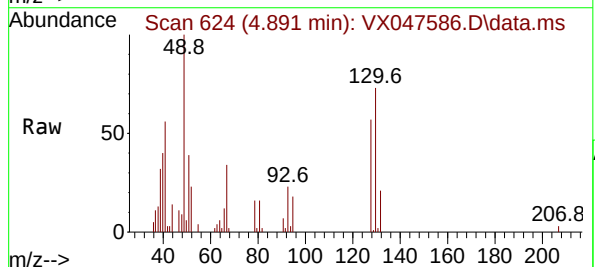
Tgt Ion: 49 Resp: 12047

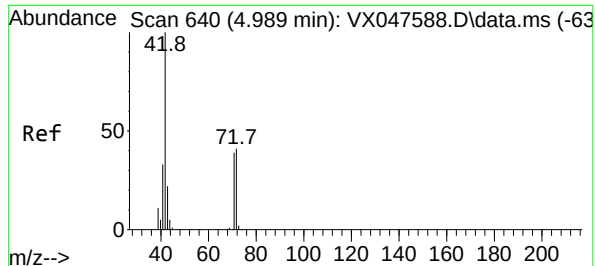
Ion Ratio Lower Upper

49 100

129 0.2 0.0 3.2

130 68.0 57.8 86.8





#29

Tetrahydrofuran

Concen: 25.944 ug/l

RT: 4.995 min Scan# 641

Delta R.T. 0.006 min

Lab File: VX047586.D

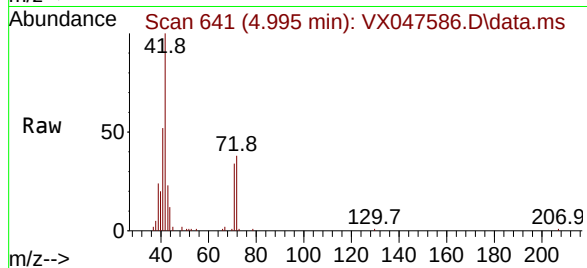
Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

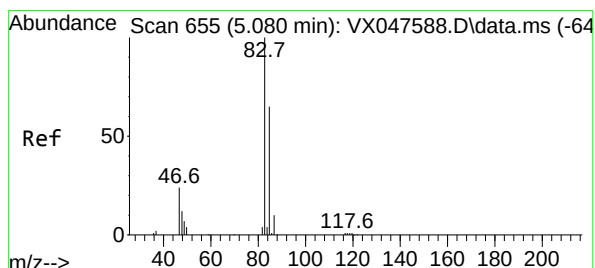
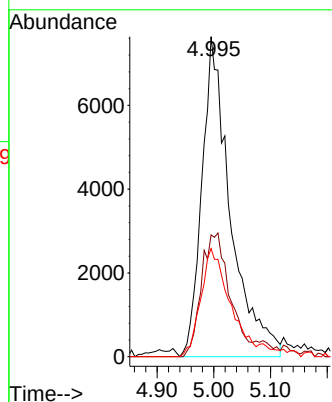
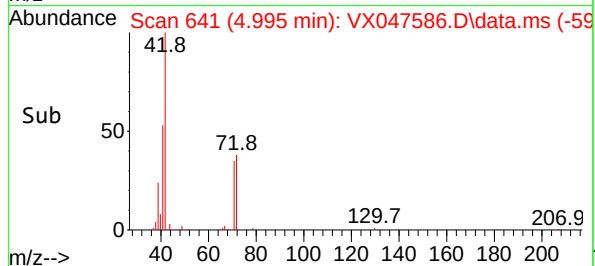


Tgt Ion:	42	Resp:	26729
Ion	Ratio	Lower	Upper
42	100		
72	38.7	34.2	51.2
71	34.1	31.9	47.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

Chloroform

Concen: 5.344 ug/l

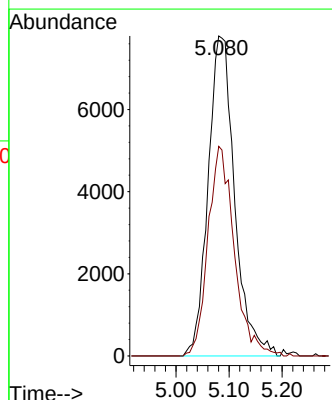
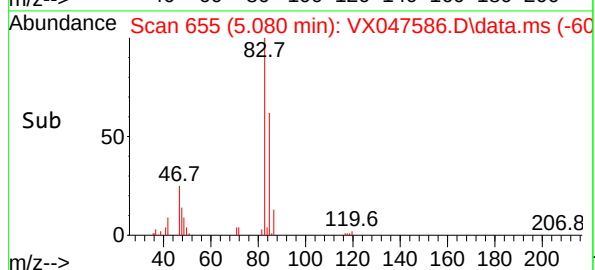
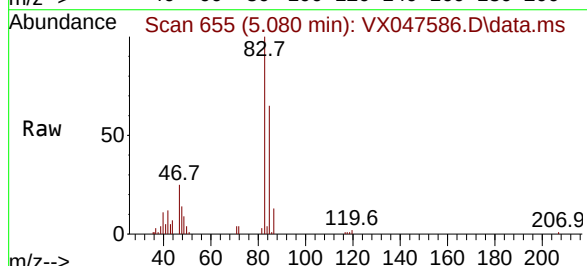
RT: 5.080 min Scan# 655

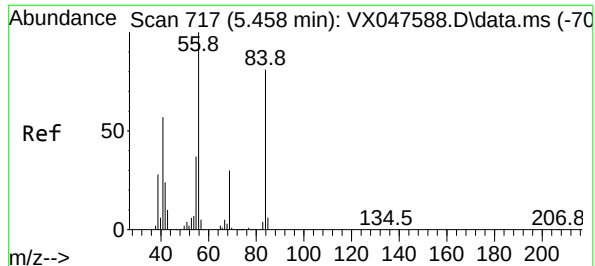
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	83	Resp:	27054
Ion	Ratio	Lower	Upper
83	100		
85	65.5	51.8	77.6





#31

Cyclohexane

Concen: 5.520 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 2303

Ion Ratio Lower Upper

56 100

69 32.2 23.8 35.8

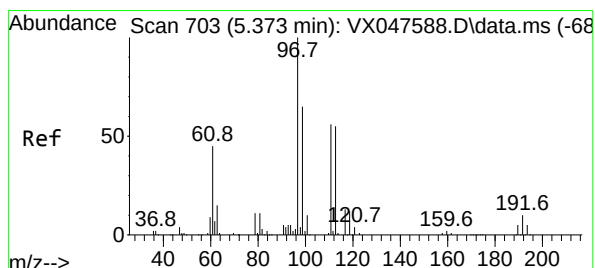
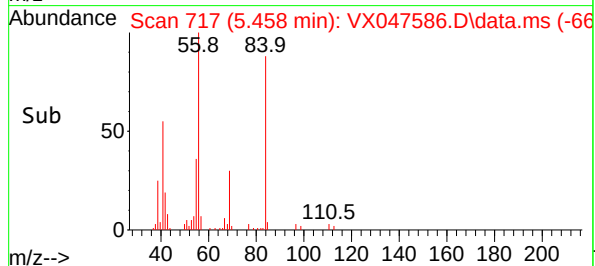
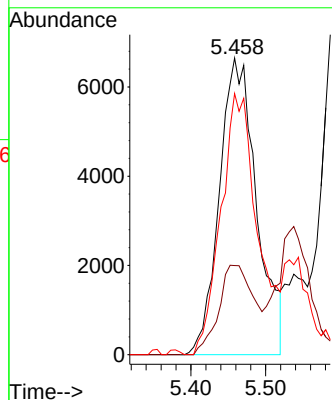
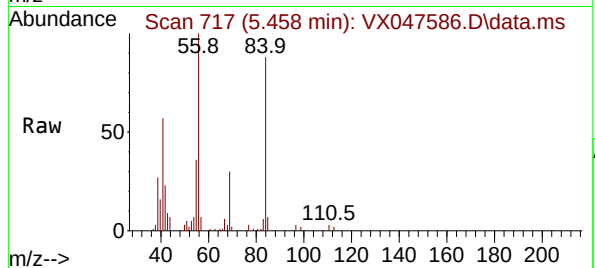
84 87.1 64.6 97.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#32

1,1,1-Trichloroethane

Concen: 5.188 ug/l

RT: 5.367 min Scan# 702

Delta R.T. -0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

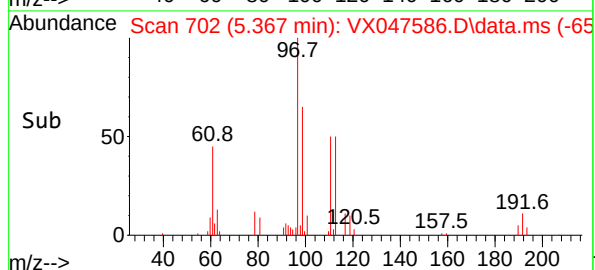
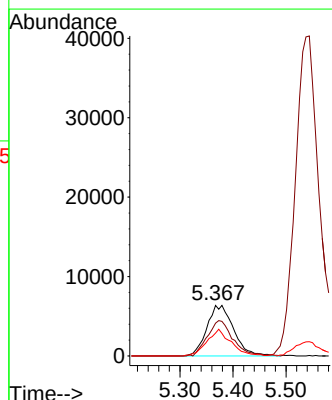
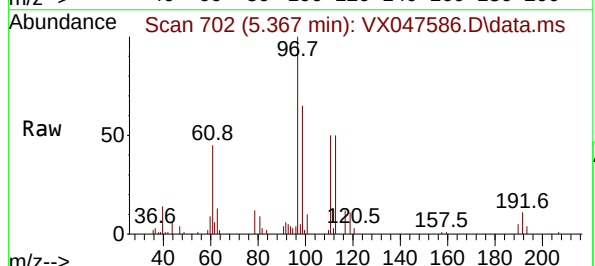
Tgt Ion: 97 Resp: 22279

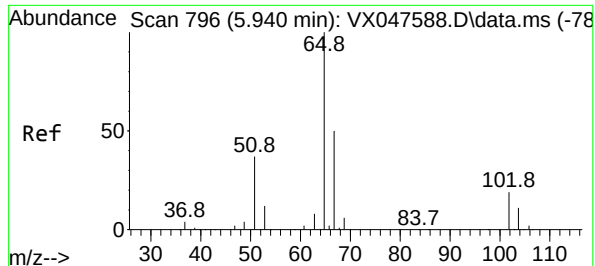
Ion Ratio Lower Upper

97 100

99 66.4 50.6 76.0

61 47.4 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 5.554 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 17538

Ion Ratio Lower Upper

65 100

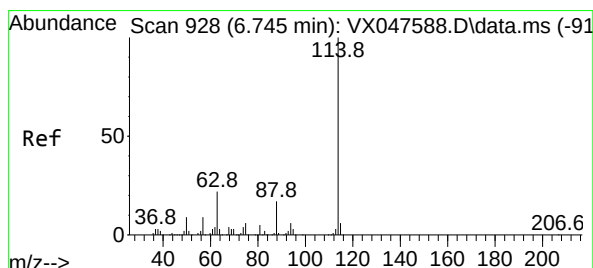
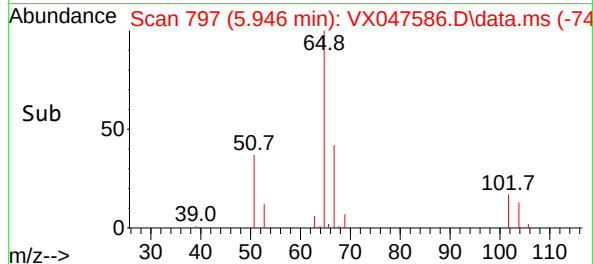
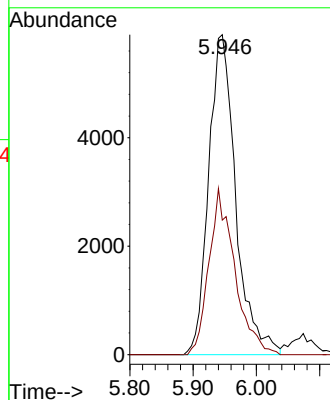
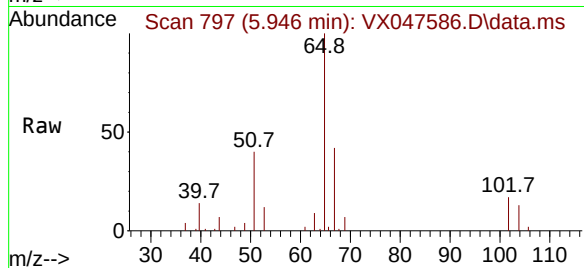
67 49.7 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

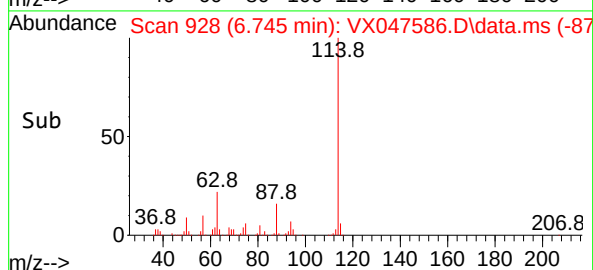
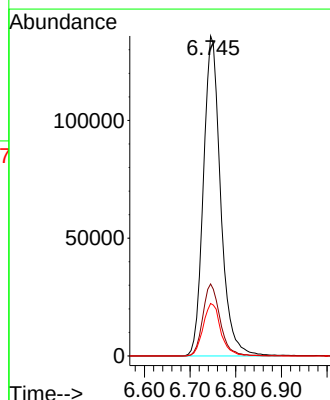
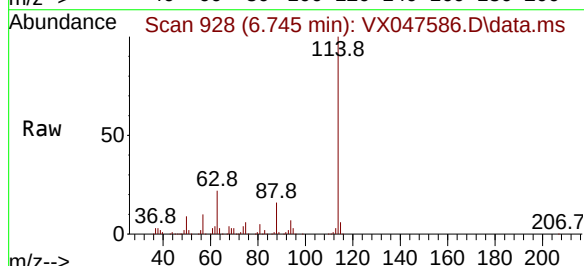
Tgt Ion:114 Resp: 355026

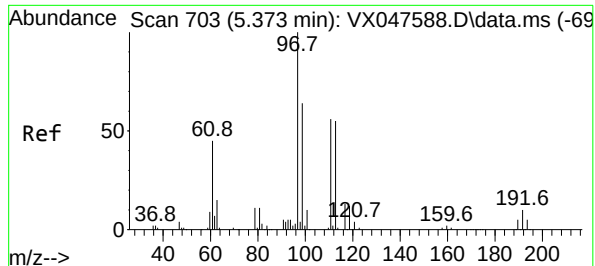
Ion Ratio Lower Upper

114 100

63 22.5 0.0 44.0

88 16.4 0.0 34.2





#35

Dibromofluoromethane

Concen: 5.312 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

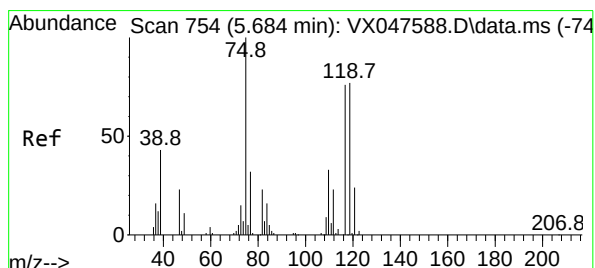
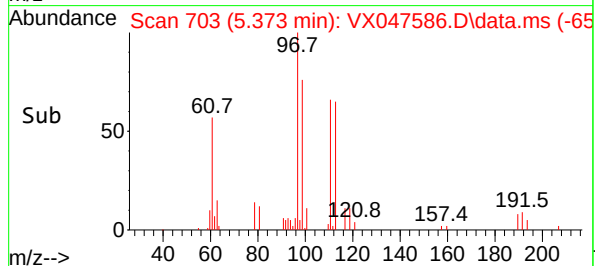
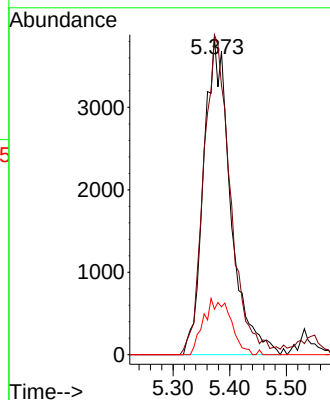
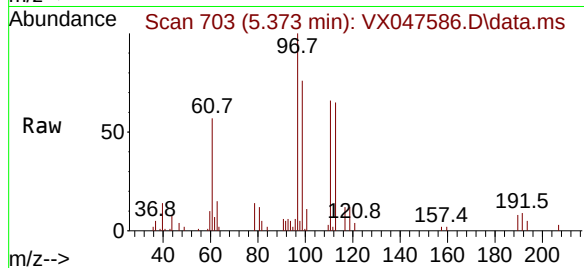
VSTDIC005

Tgt Ion:	113	Resp:	1264
Ion	Ratio	Lower	Upper
113	100		
111	100.5	80.9	121.3
192	17.8	14.2	21.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#36

1,1-Dichloropropene

Concen: 5.304 ug/l

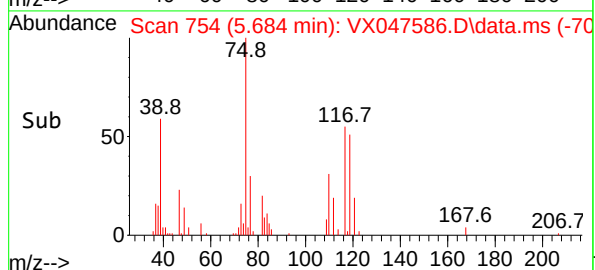
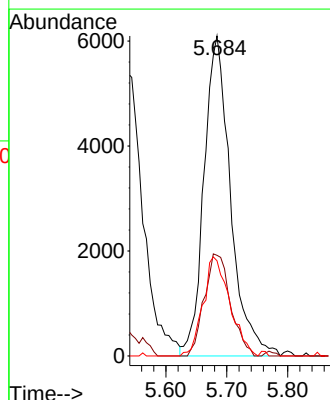
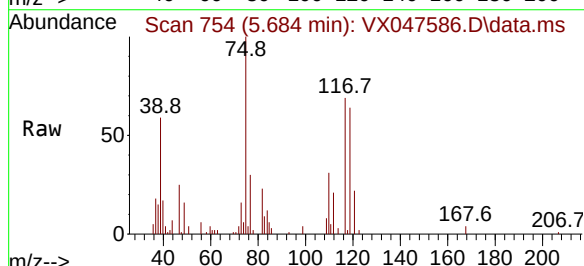
RT: 5.684 min Scan# 754

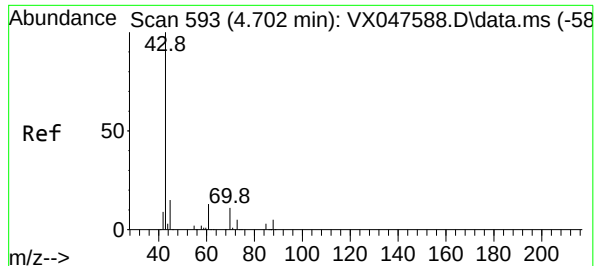
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	75	Resp:	18455
Ion	Ratio	Lower	Upper
75	100		
110	31.4	16.7	50.1
77	31.0	24.3	36.5





#37

Ethyl Acetate

Concen: 5.345 ug/l

RT: 4.708 min Scan# 593

Delta R.T. 0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

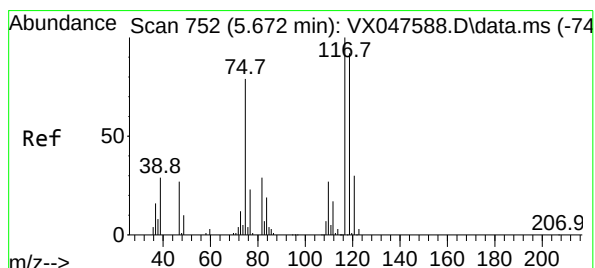
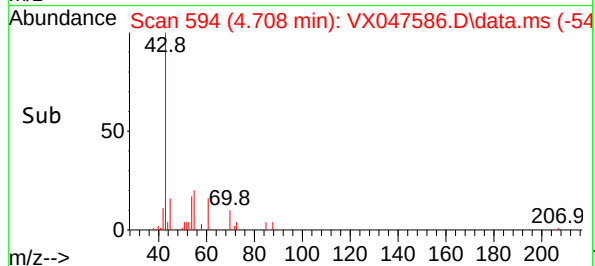
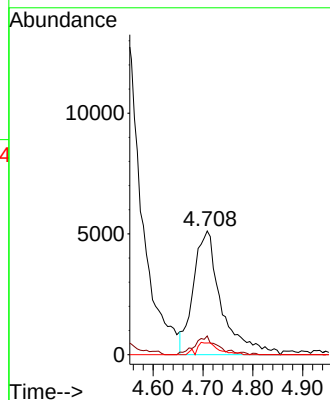
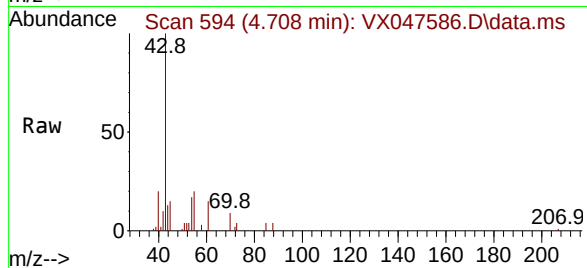
Tgt Ion:	43	Resp:	1991
Ion	Ratio	Lower	Upper
43	100		
61	11.9	9.8	14.8
70	7.6	7.9	11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#38

Carbon Tetrachloride

Concen: 5.390 ug/l

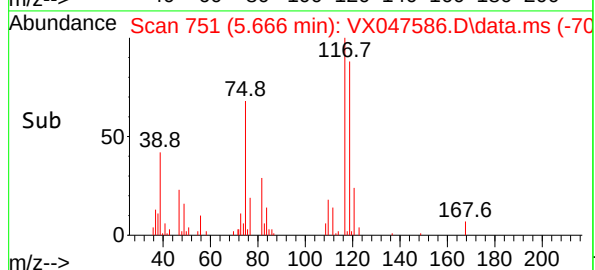
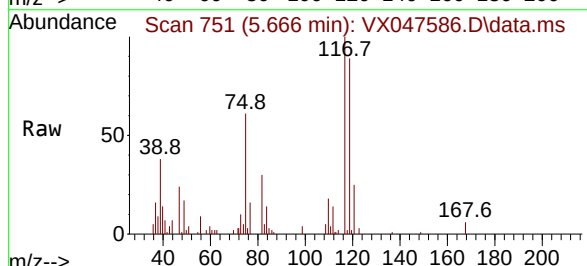
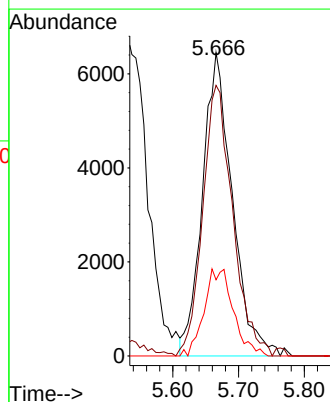
RT: 5.666 min Scan# 751

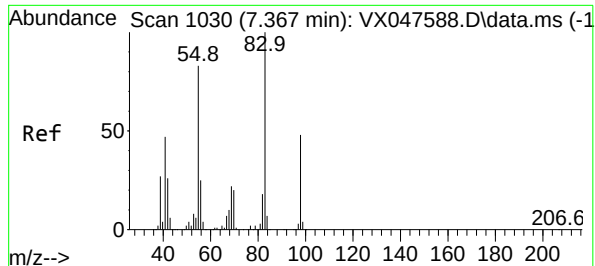
Delta R.T. -0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	117	Resp:	20376
Ion	Ratio	Lower	Upper
117	100		
119	88.9	73.4	110.2
121	25.1	23.8	35.6





#39

Methylcyclohexane

Concen: 5.292 ug/l

RT: 7.367 min Scan# 1030

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

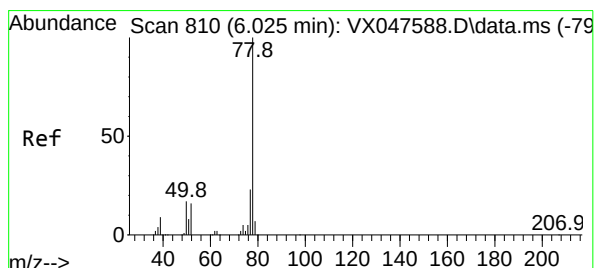
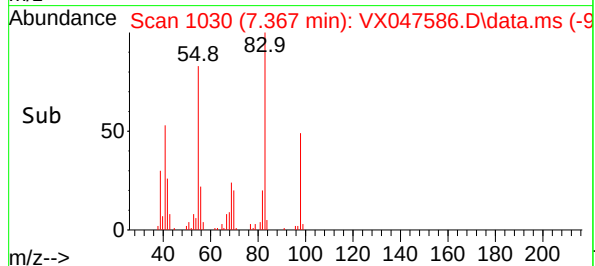
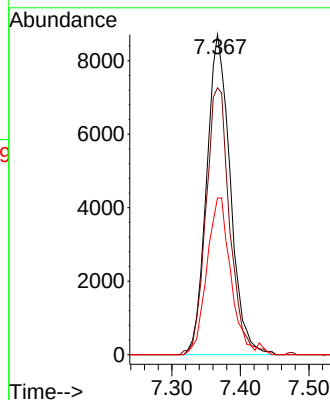
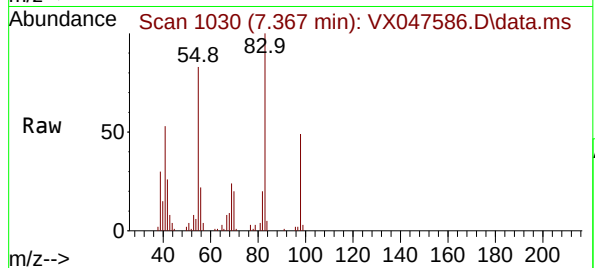
VSTDIC005

Tgt Ion:	83	Resp:	20900
Ion Ratio	Lower	Upper	
83	100		
55	79.1	66.4	99.6
98	46.4	38.1	57.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#40

Benzene

Concen: 5.299 ug/l

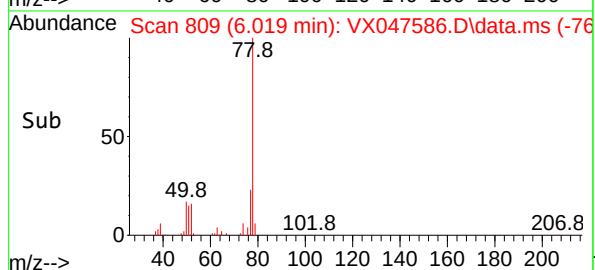
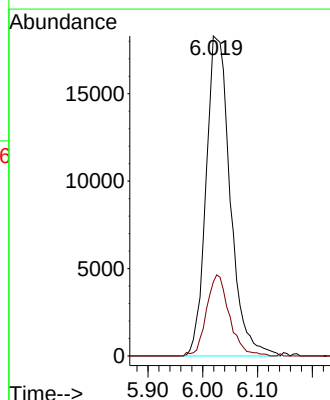
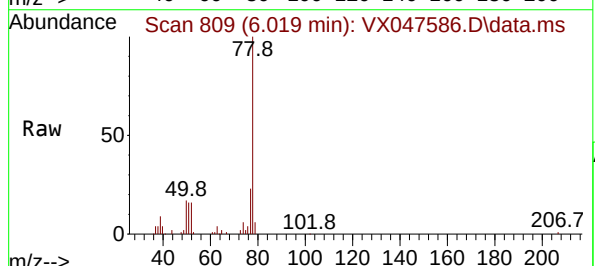
RT: 6.019 min Scan# 809

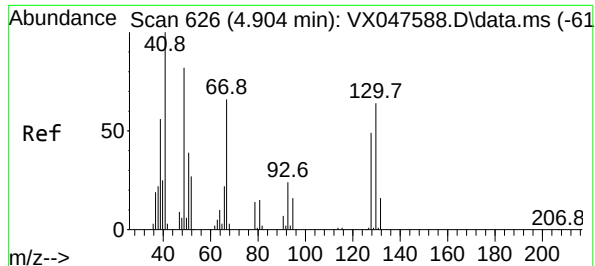
Delta R.T. -0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	78	Resp:	55996
Ion Ratio	Lower	Upper	
78	100		
77	23.1	18.8	28.2





#41

Methacrylonitrile

Concen: 4.883 ug/l

RT: 4.904 min Scan# 61

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 41 Resp: 9390

Ion Ratio Lower Upper

41 100

39 58.3 43.3 64.9

67 68.7 58.6 87.8

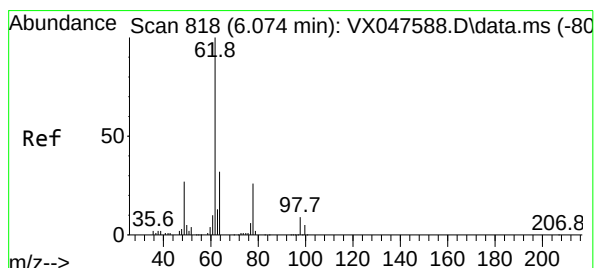
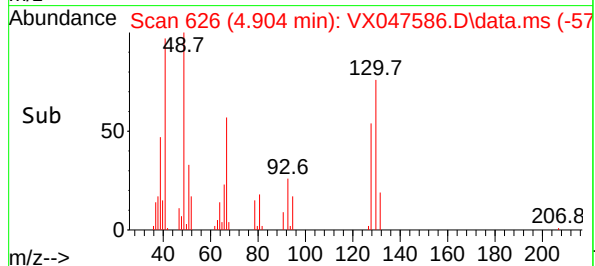
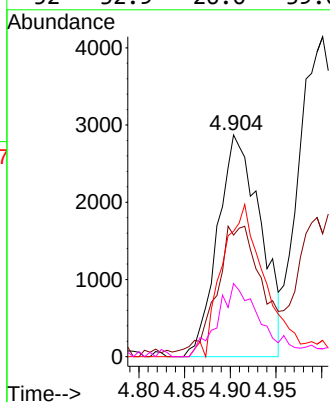
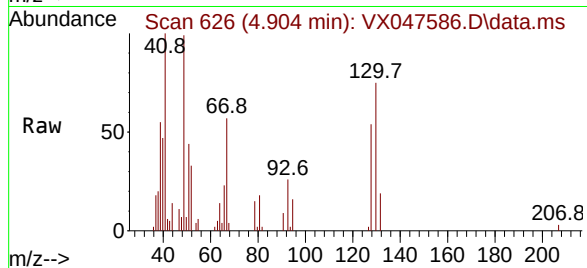
52 32.9 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#42

1,2-Dichloroethane

Concen: 5.252 ug/l

RT: 6.074 min Scan# 818

Delta R.T. -0.000 min

Lab File: VX047586.D

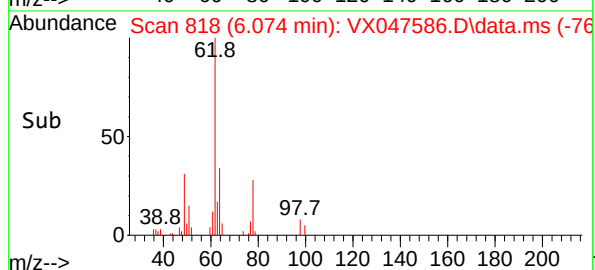
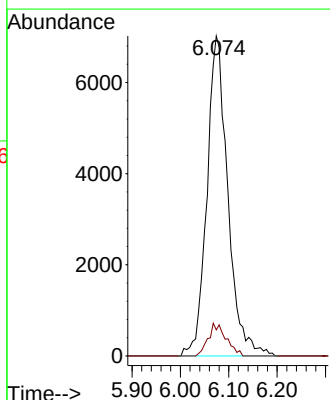
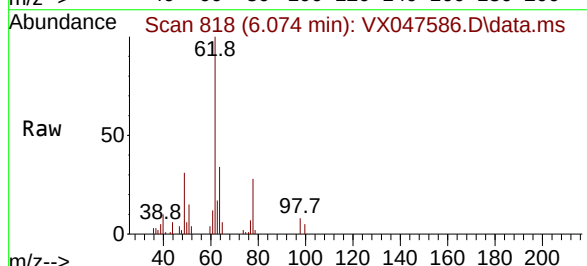
Acq: 16 Sep 2025 10:16

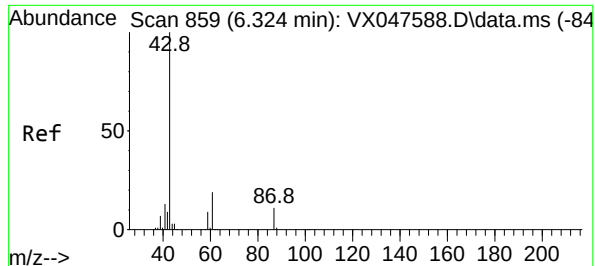
Tgt Ion: 62 Resp: 21117

Ion Ratio Lower Upper

62 100

98 8.7 0.0 17.0





#43

Isopropyl Acetate

Concen: 5.124 ug/l

RT: 6.324 min Scan# 859

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

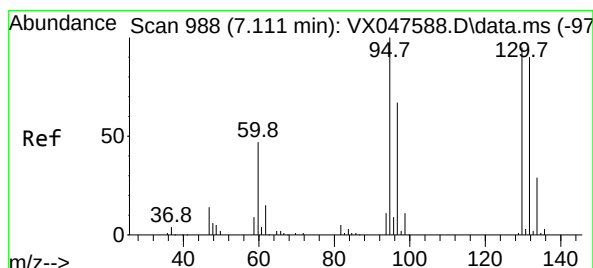
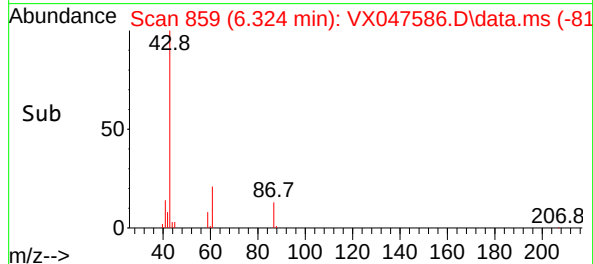
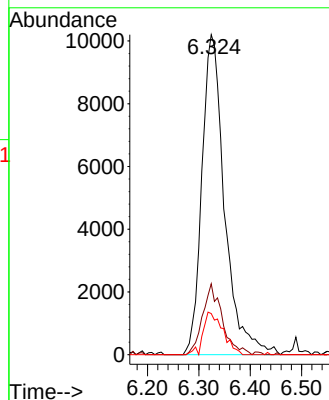
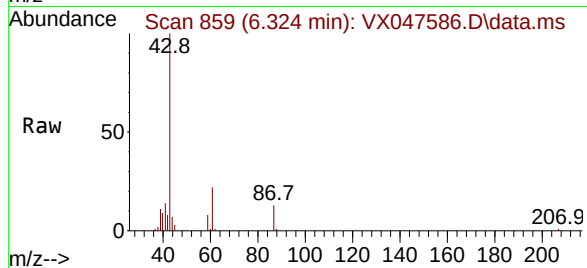
VSTDIC005

Tgt Ion:	43	Resp:	31304
Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.2	22.8
87	11.6	9.6	14.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#44

Trichloroethene

Concen: 5.314 ug/l

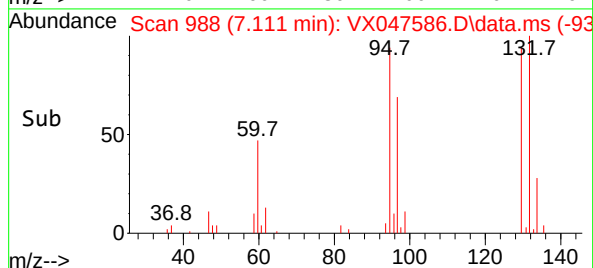
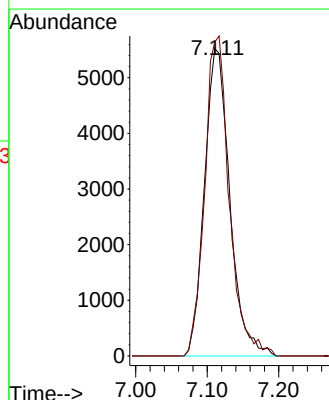
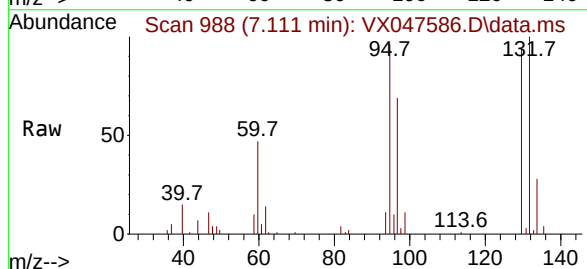
RT: 7.111 min Scan# 988

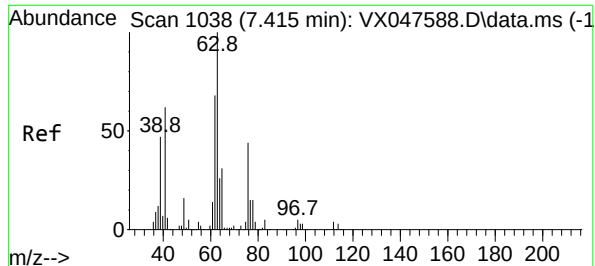
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	130	Resp:	13576
Ion	Ratio	Lower	Upper
130	100		
95	102.1	0.0	210.8





#45

1,2-Dichloropropane

Concen: 5.287 ug/l

RT: 7.415 min Scan# 1038

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 1430

Ion Ratio Lower Upper

63 100

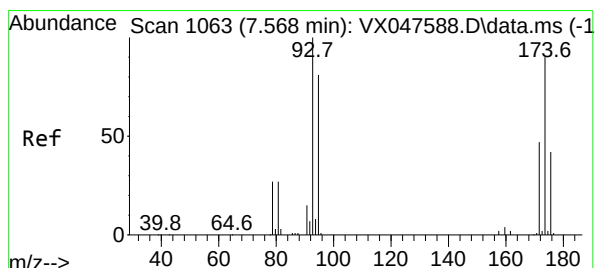
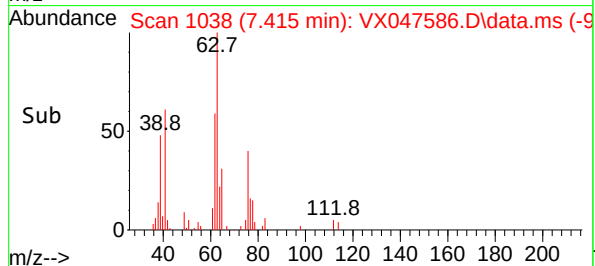
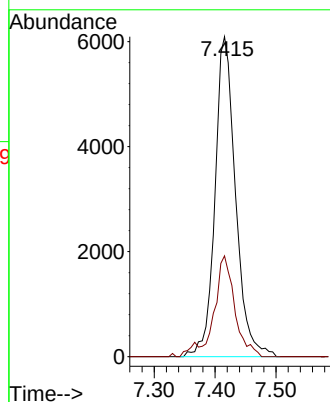
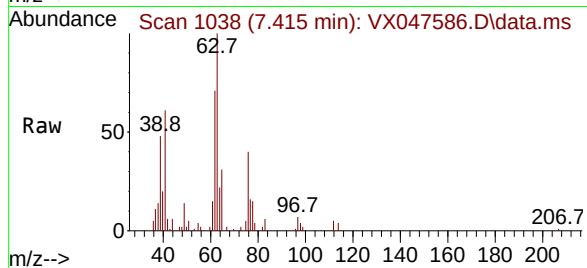
65 31.5 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#46

Dibromomethane

Concen: 5.146 ug/l

RT: 7.568 min Scan# 1063

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

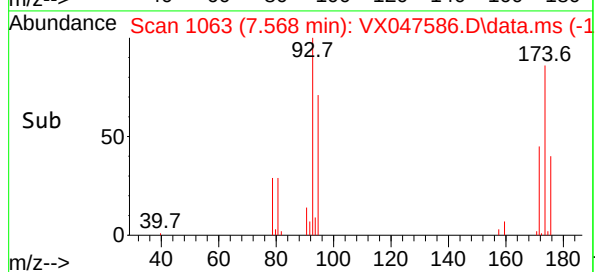
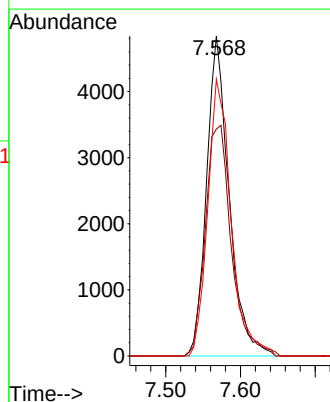
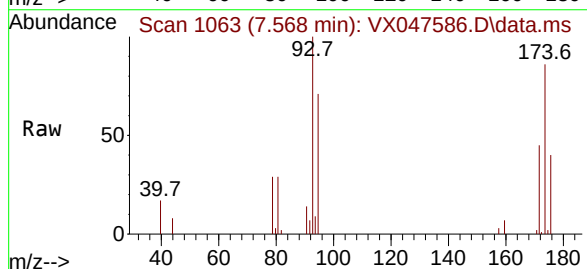
Tgt Ion: 93 Resp: 10133

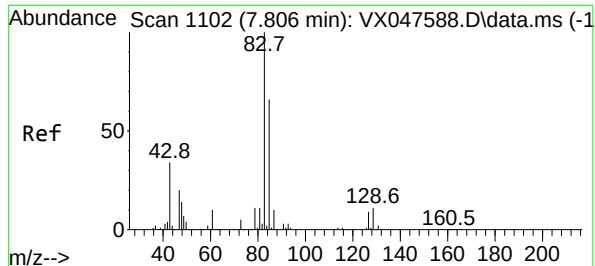
Ion Ratio Lower Upper

93 100

95 83.5 65.0 97.6

174 90.0 71.6 107.4





#47

Bromodichloromethane

Concen: 5.235 ug/l

RT: 7.806 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

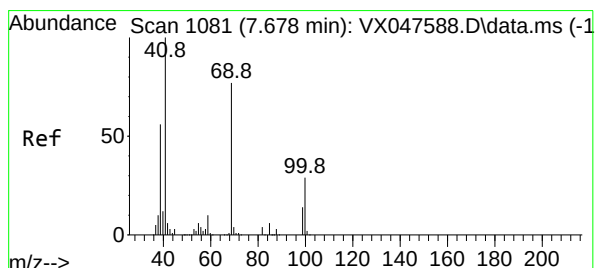
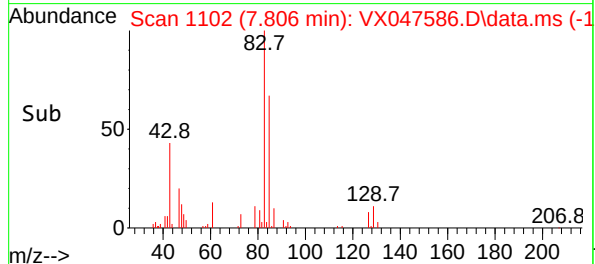
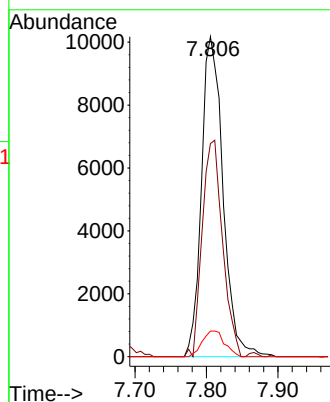
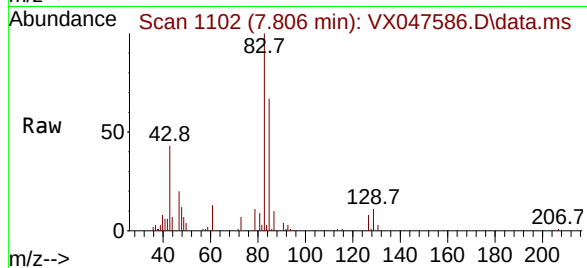
VSTDIC005

Tgt Ion:	83	Resp:	21270
Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.5	78.7
127	7.8	6.9	10.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#48

Methyl methacrylate

Concen: 4.915 ug/l

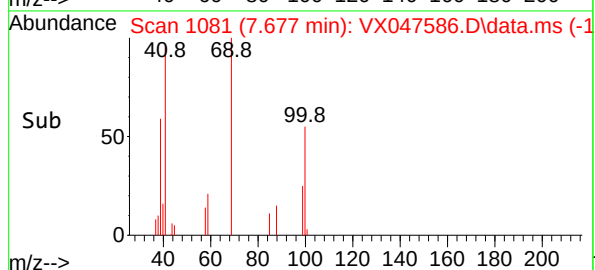
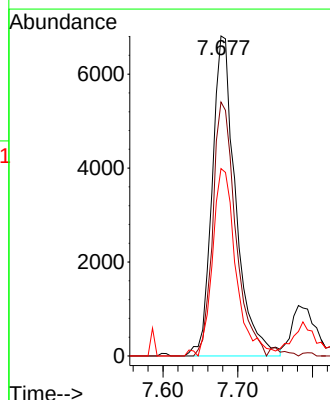
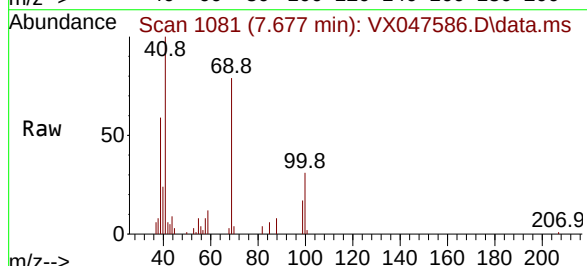
RT: 7.677 min Scan# 1081

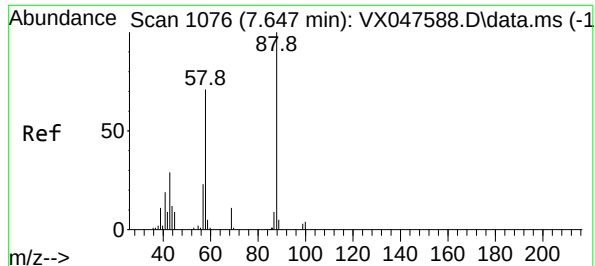
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	41	Resp:	14959
Ion	Ratio	Lower	Upper
41	100		
69	76.4	61.4	92.2
39	58.2	45.8	68.6





#49

1,4-Dioxane

Concen: 98.096 ug/l

RT: 7.653 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

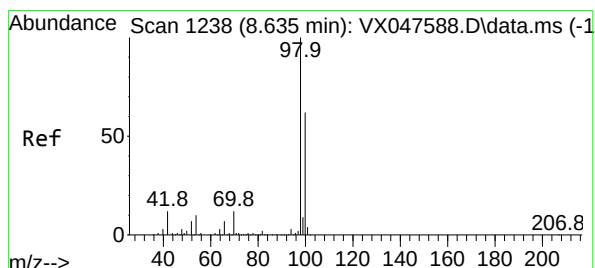
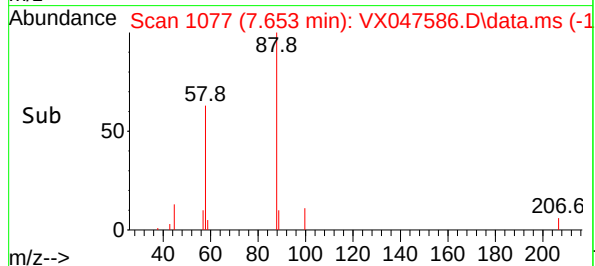
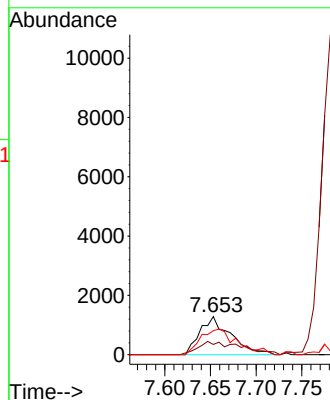
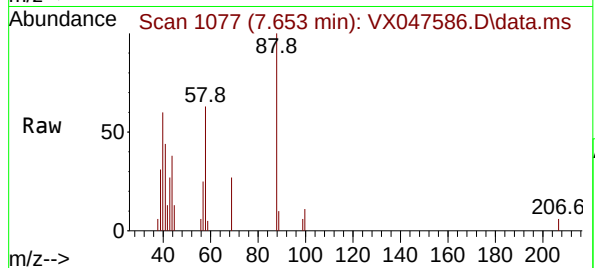
Tgt Ion:	88	Resp:	301
Ion	Ratio	Lower	Upper
88	100		
43	48.3	30.2	45.2
58	79.1	59.5	89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#50

Toluene-d8

Concen: 5.332 ug/l

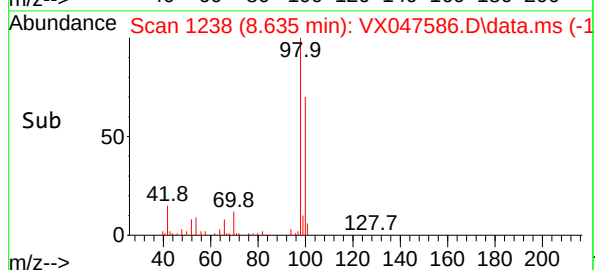
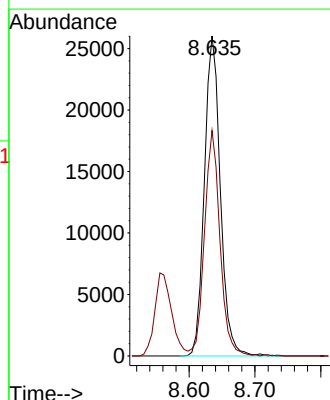
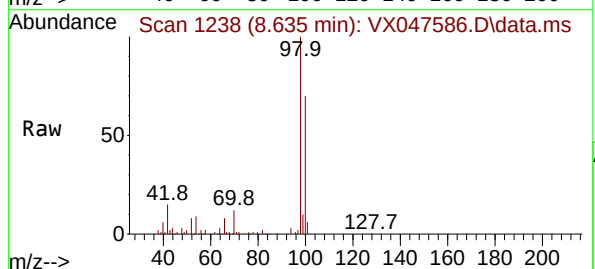
RT: 8.635 min Scan# 1238

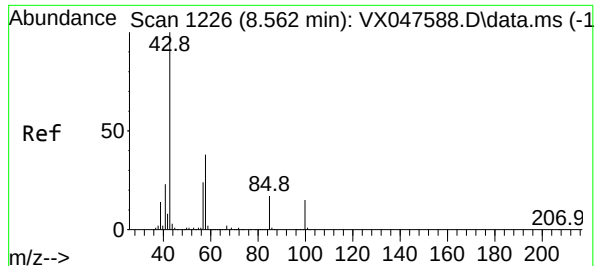
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

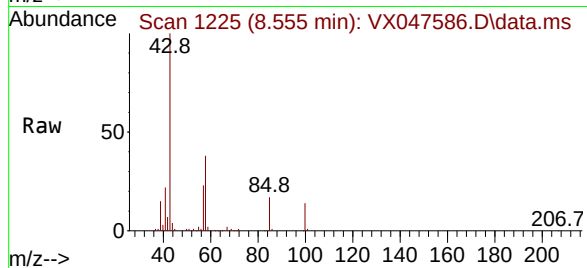
Tgt Ion:	98	Resp:	43926
Ion	Ratio	Lower	Upper
98	100		
100	68.4	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 25.828 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

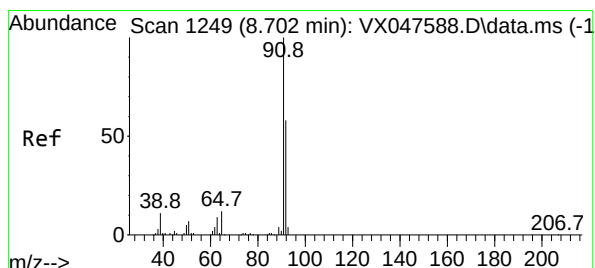
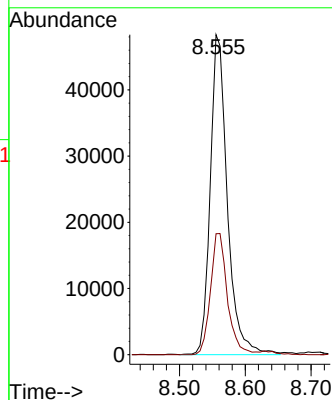
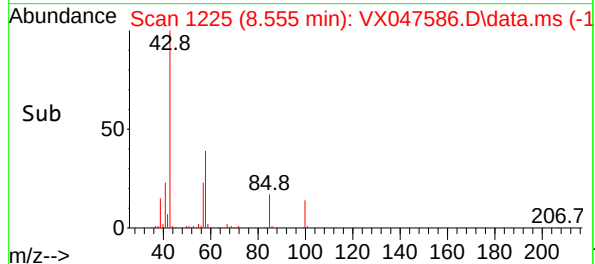
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 43 Resp: 87492
Ion Ratio Lower Upper
43 100
58 37.7 30.3 45.5

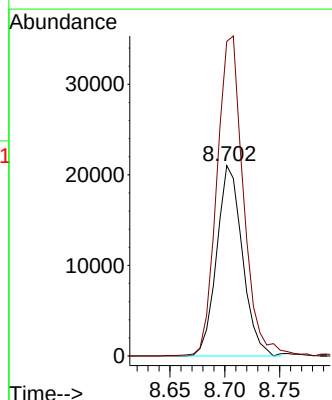
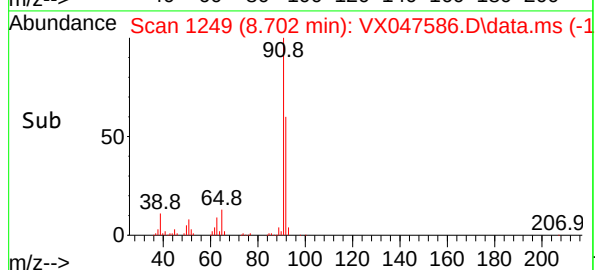
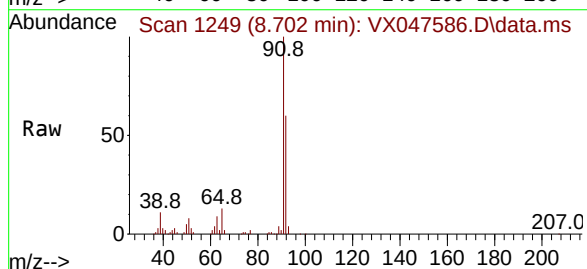
Manual Integrations
APPROVED

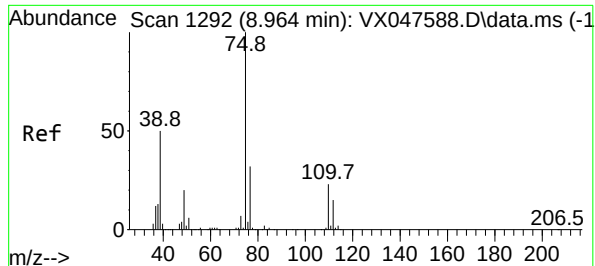
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#52
Toluene
Concen: 5.271 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 92 Resp: 34314
Ion Ratio Lower Upper
92 100
91 173.8 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 5.034 ug/l

RT: 8.964 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 2086

Ion Ratio Lower Upper

75 100

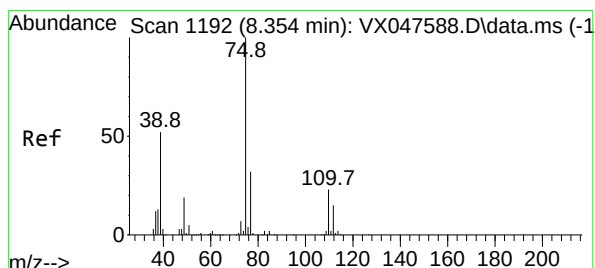
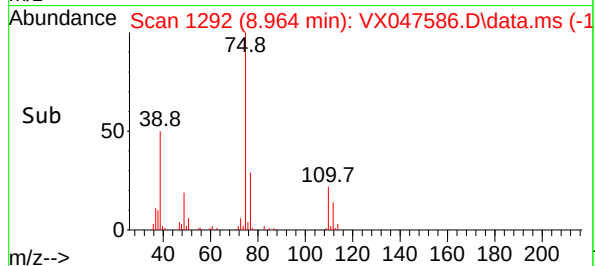
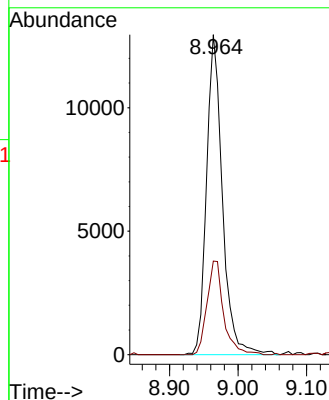
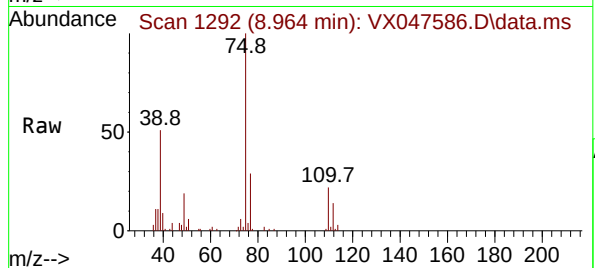
77 30.2 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#54

cis-1,3-Dichloropropene

Concen: 5.227 ug/l

RT: 8.354 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

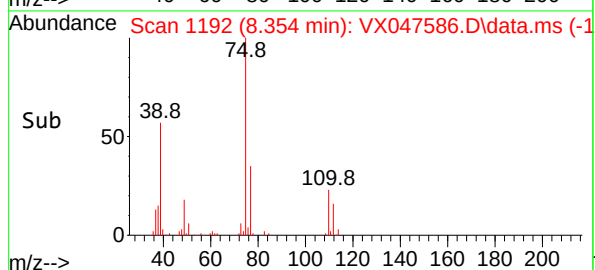
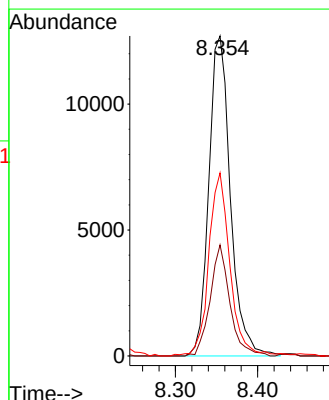
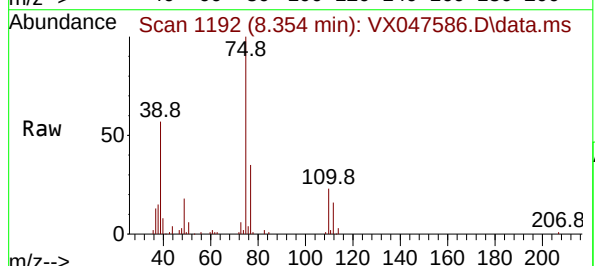
Tgt Ion: 75 Resp: 23157

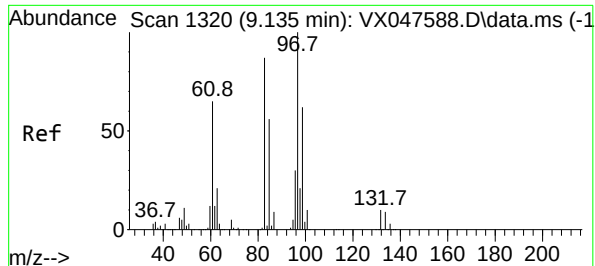
Ion Ratio Lower Upper

75 100

77 34.7 25.8 38.6

39 51.7 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 5.166 ug/l

RT: 9.135 min Scan# 1320

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 97 Resp: 1296

Ion Ratio Lower Upper

97 100

83 76.7 69.6 104.4

85 49.9 45.0 67.6

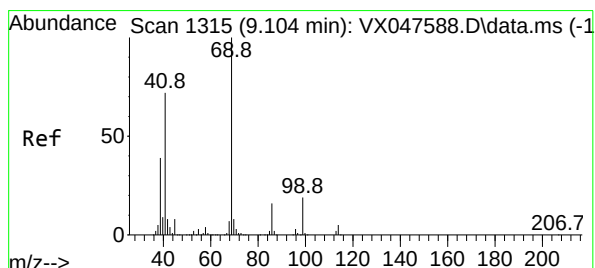
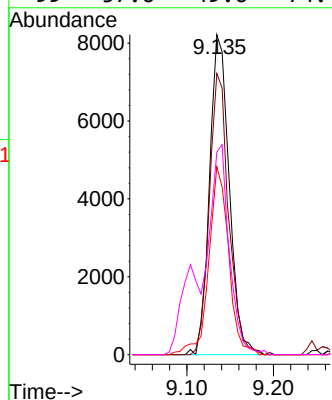
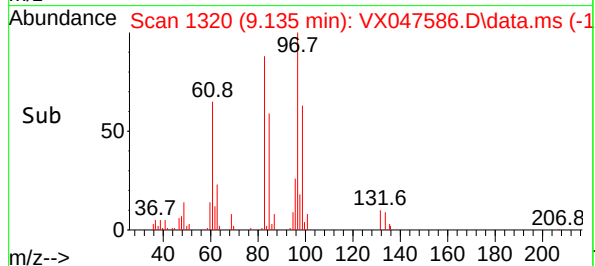
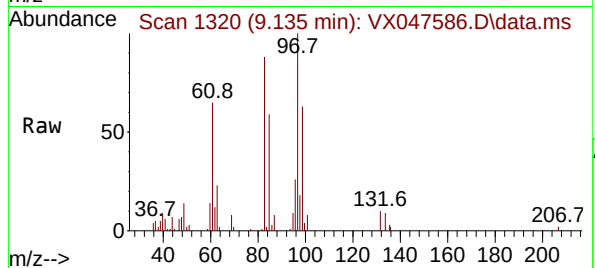
99 57.6 49.6 74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#56

Ethyl methacrylate

Concen: 5.068 ug/l

RT: 9.104 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

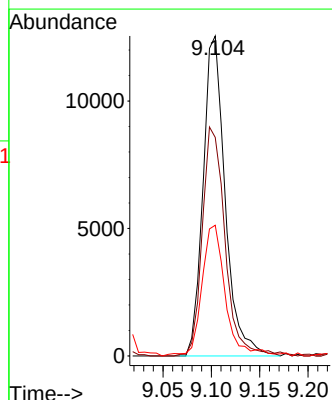
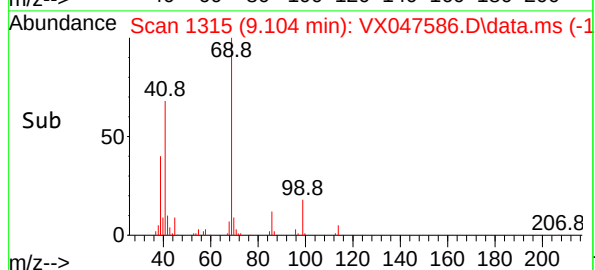
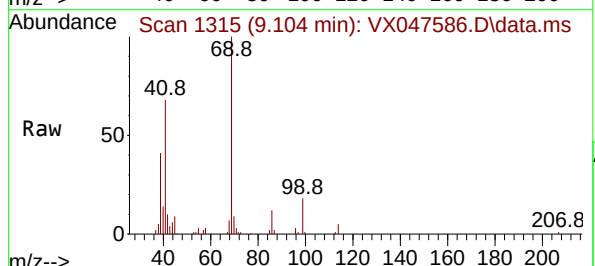
Tgt Ion: 69 Resp: 19980

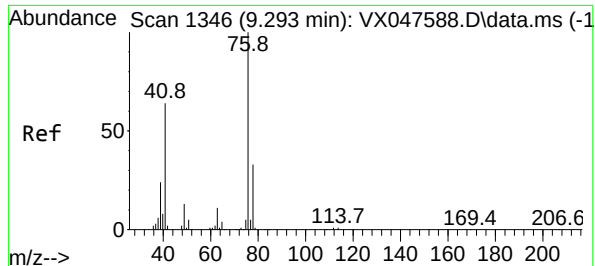
Ion Ratio Lower Upper

69 100

41 73.9 58.6 87.8

39 43.7 31.5 47.3





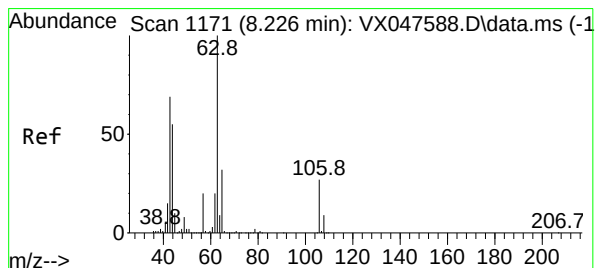
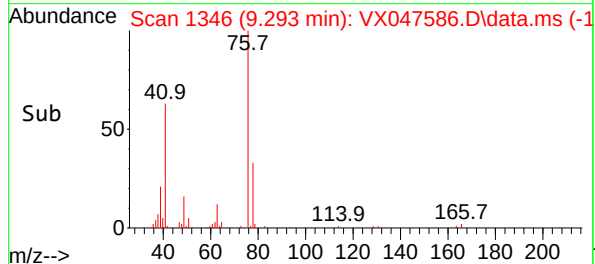
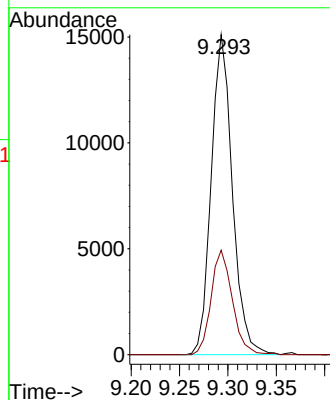
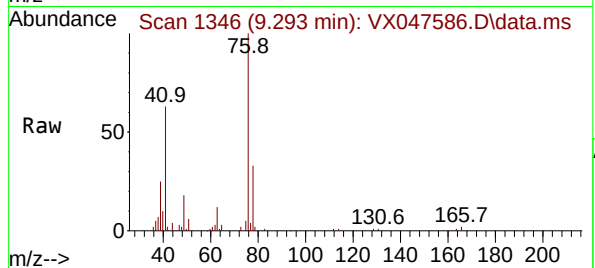
#57
1,3-Dichloropropane
Concen: 5.331 ug/l
RT: 9.293 min Scan# 11346
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 22985
Ion Ratio Lower Upper
76 100
78 32.8 26.2 39.4

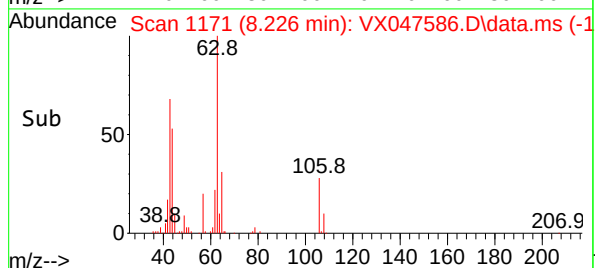
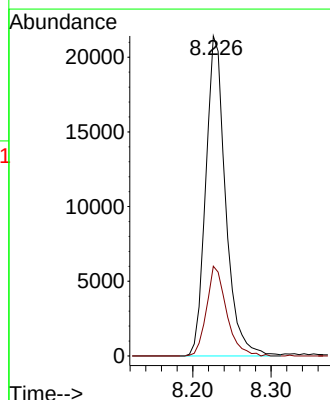
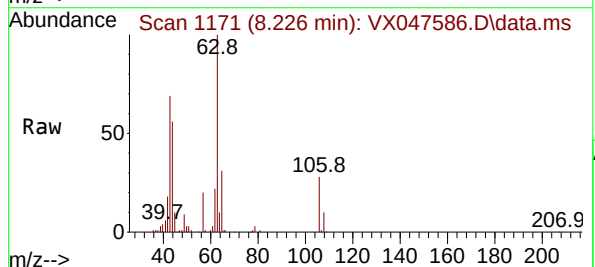
Manual Integrations
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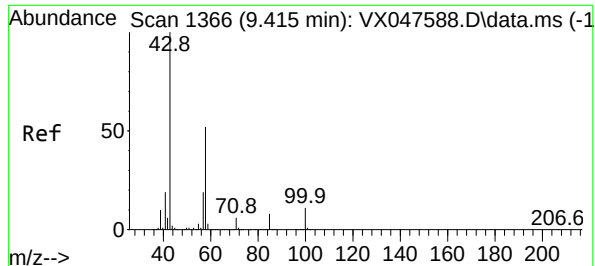
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#58
2-Chloroethyl Vinyl ether
Concen: 27.899 ug/l
RT: 8.226 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 63 Resp: 37585
Ion Ratio Lower Upper
63 100
106 28.3 21.9 32.9





#59

2-Hexanone

Concen: 27.275 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 66350

Ion Ratio Lower Upper

43

100

58

51.1

26.1

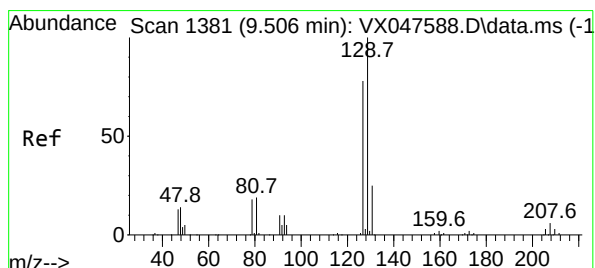
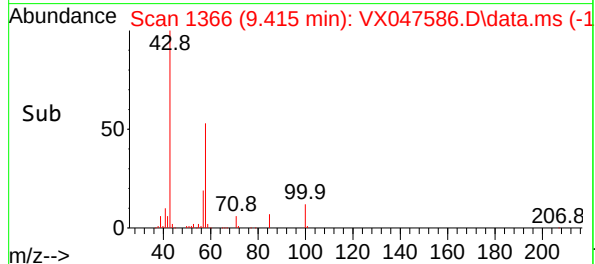
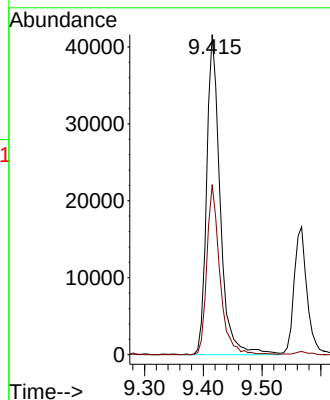
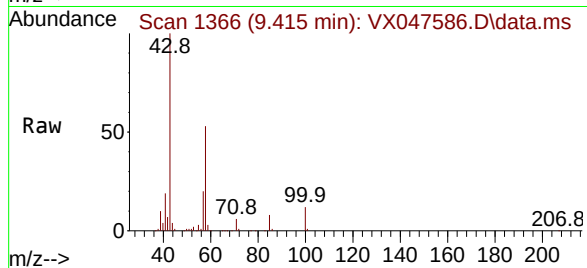
78.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#60

Dibromochloromethane

Concen: 5.084 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:129 Resp: 14705

Ion Ratio Lower Upper

129

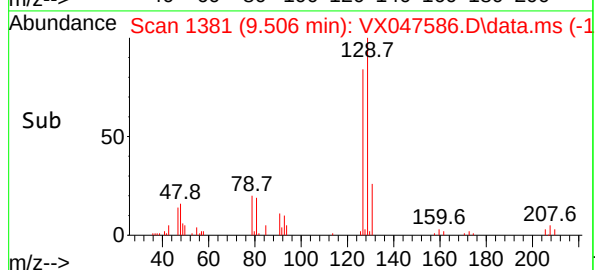
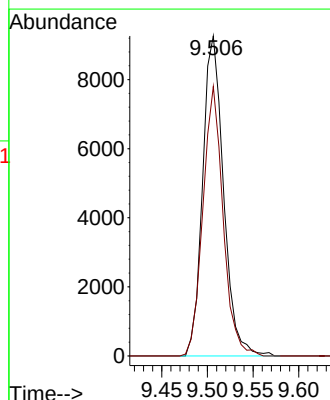
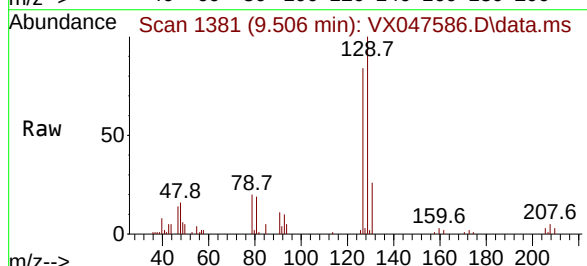
100

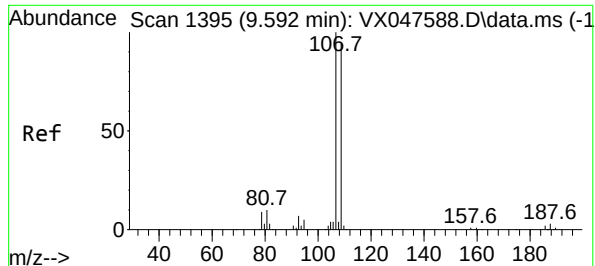
127

81.4

38.4

115.2





#61

1,2-Dibromoethane

Concen: 5.264 ug/l

RT: 9.592 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:107 Resp: 1346

Ion Ratio Lower Upper

107 100

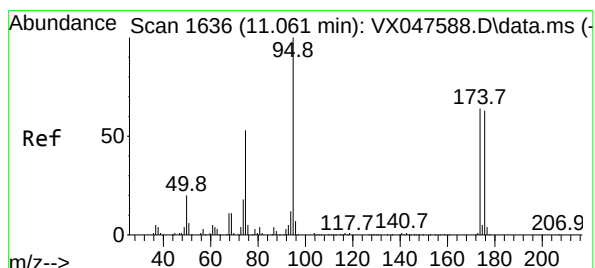
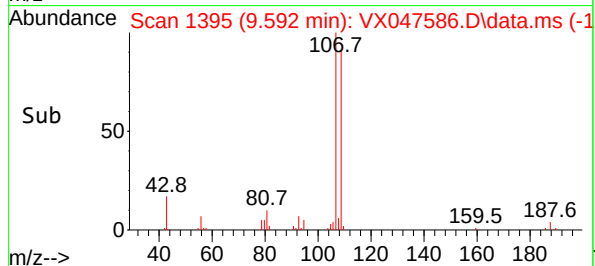
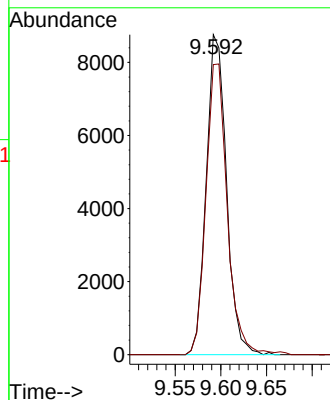
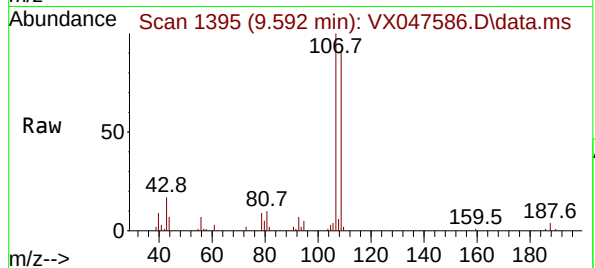
109 95.6 75.3 112.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#62

4-Bromofluorobenzene

Concen: 5.429 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

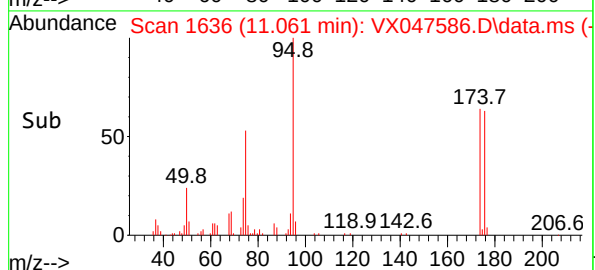
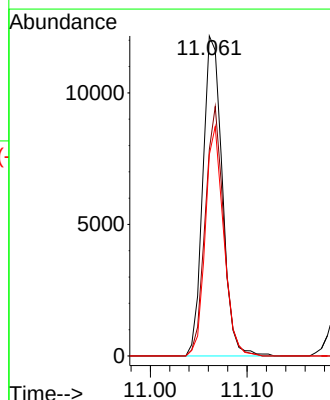
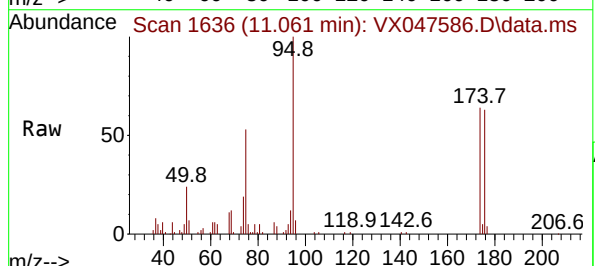
Tgt Ion: 95 Resp: 16974

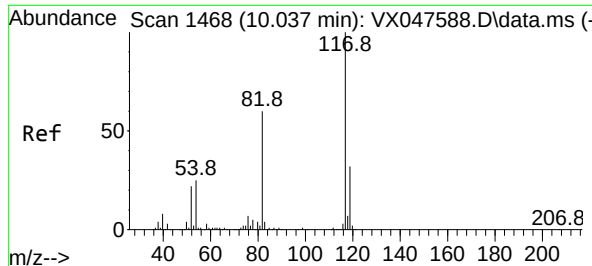
Ion Ratio Lower Upper

95 100

174 74.0 0.0 141.6

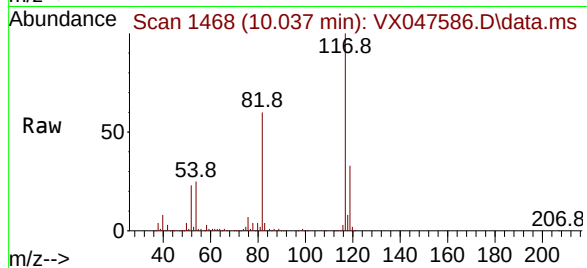
176 67.9 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

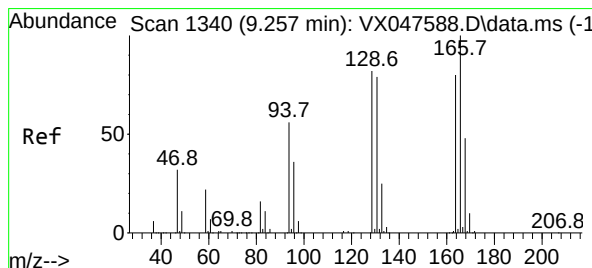
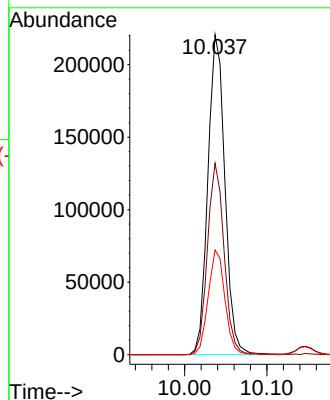
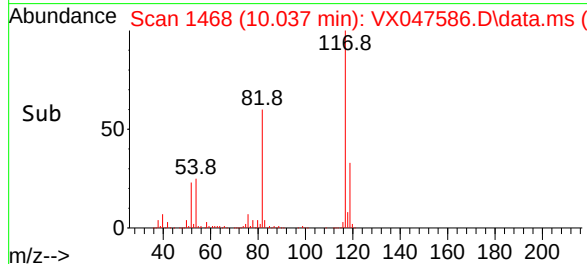
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:117 Resp: 31728
Ion Ratio Lower Upper
117 100
82 59.8 47.8 71.6
119 32.8 25.2 37.8

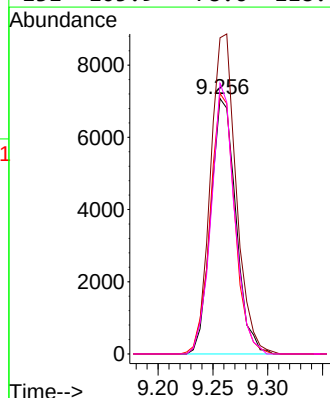
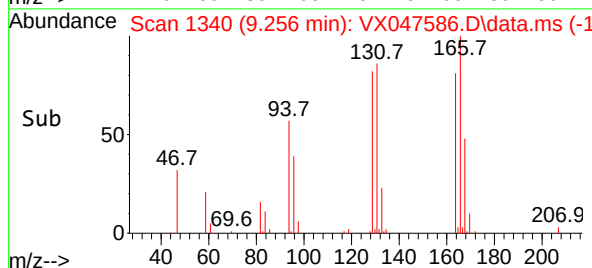
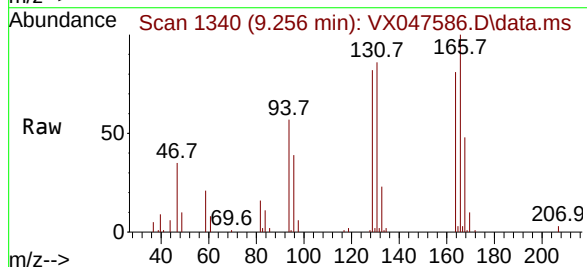
Manual Integrations
APPROVED

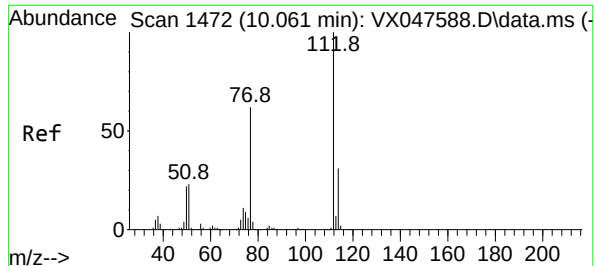
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#64
Tetrachloroethene
Concen: 5.428 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:164 Resp: 11228
Ion Ratio Lower Upper
164 100
166 123.8 100.2 150.2
129 102.0 81.8 122.6
131 105.9 78.6 118.0





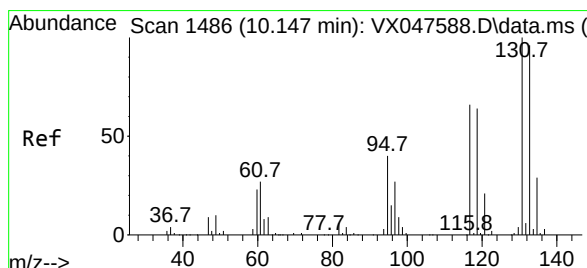
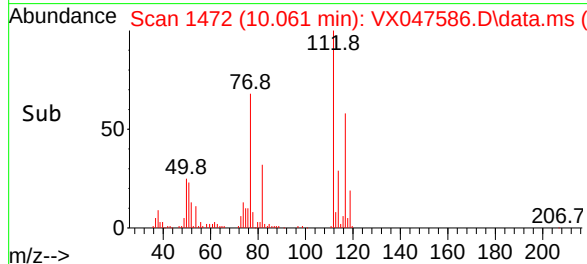
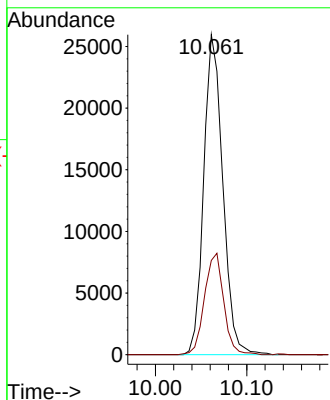
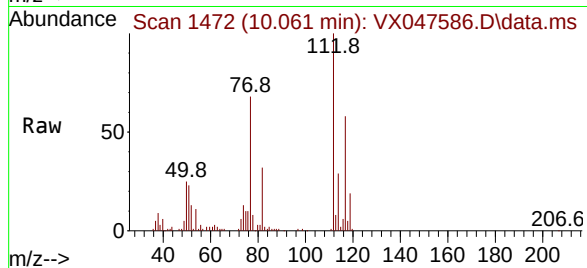
#65
Chlorobenzene
Concen: 5.203 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 3750
Ion Ratio Lower Upper
112 100
114 29.2 25.1 37.7

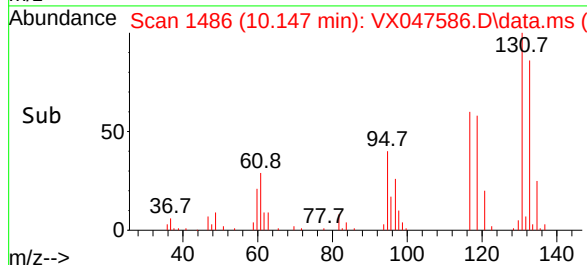
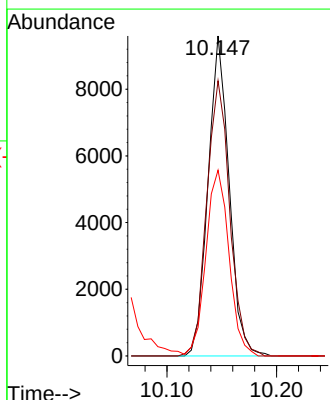
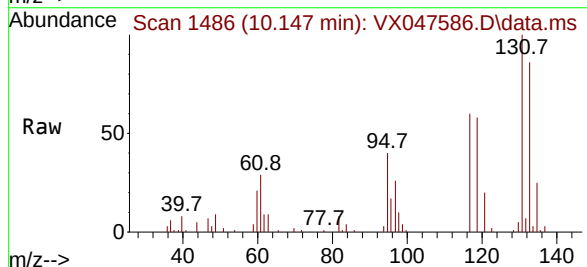
Manual Integrations
APPROVED

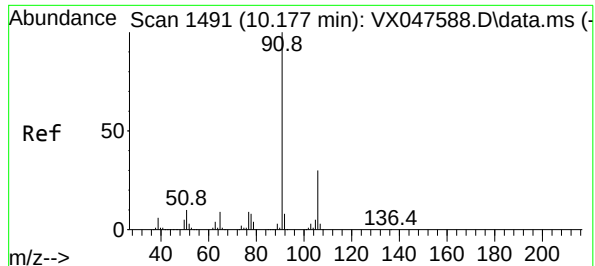
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 5.149 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:131 Resp: 12807
Ion Ratio Lower Upper
131 100
133 94.0 47.3 142.0
119 63.5 32.0 96.0





#67

Ethyl Benzene

Concen: 5.299 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 65908

Ion Ratio Lower Upper

91 100

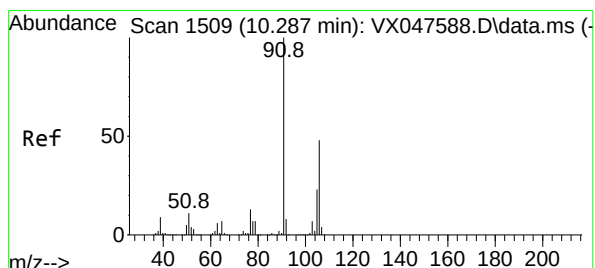
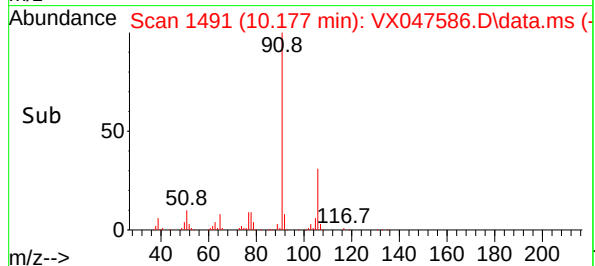
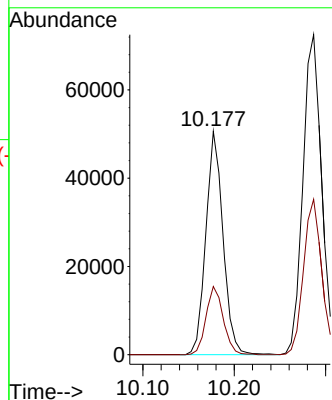
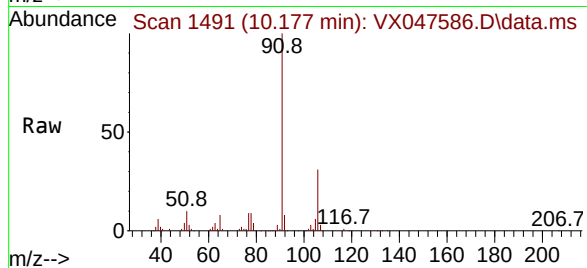
106 30.5 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#68

m/p-Xylenes

Concen: 10.613 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX047586.D

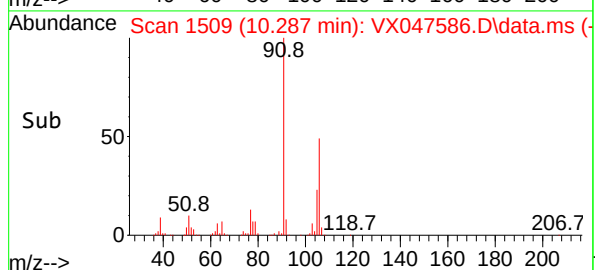
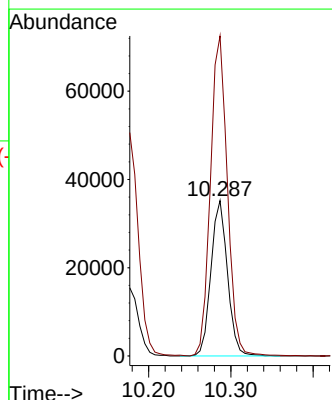
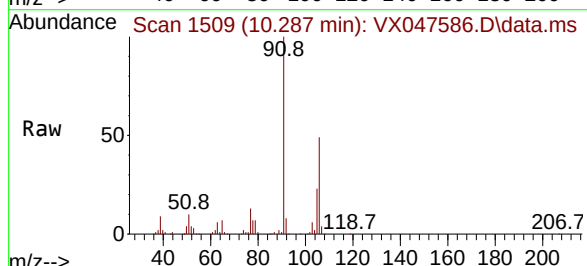
Acq: 16 Sep 2025 10:16

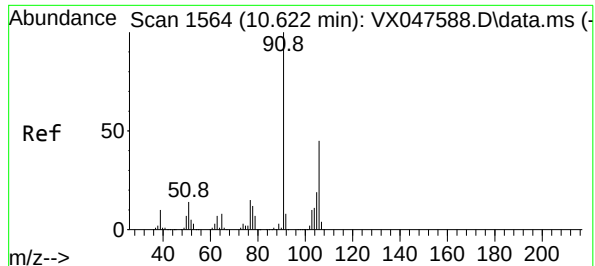
Tgt Ion:106 Resp: 49132

Ion Ratio Lower Upper

106 100

91 211.6 167.8 251.8





#69

o-Xylene

Concen: 5.204 ug/l

RT: 10.628 min Scan# 1564

Delta R.T. 0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:106 Resp: 23300

Ion Ratio Lower Upper

106 100

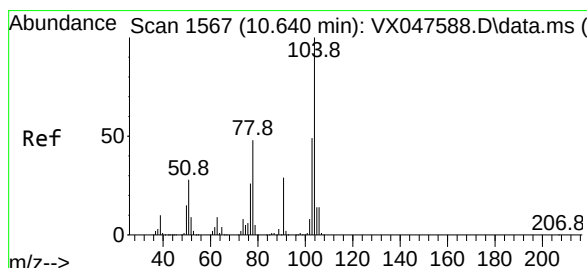
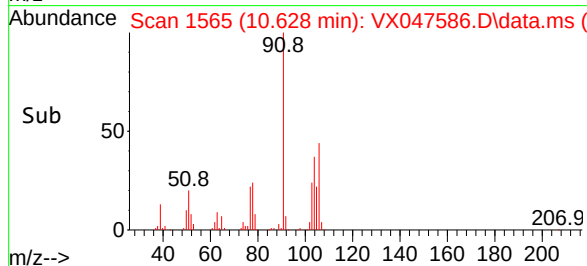
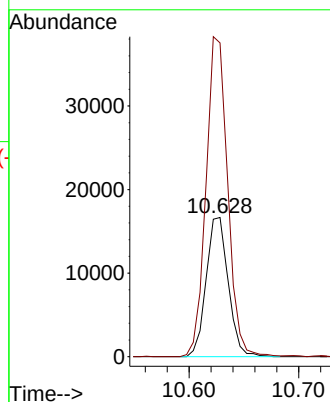
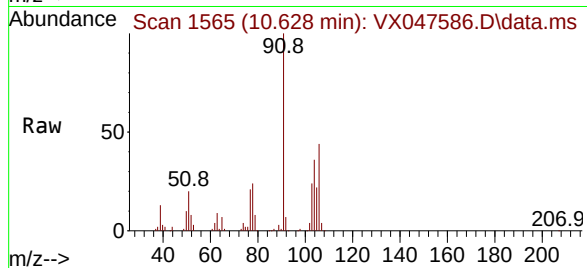
91 226.3 111.1 333.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#70

Styrene

Concen: 5.210 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

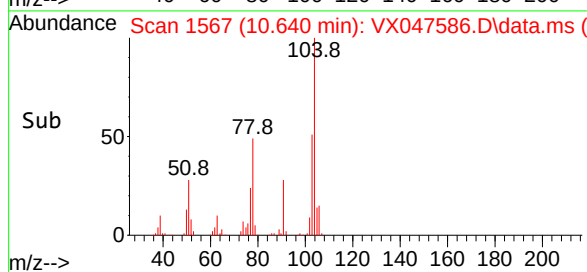
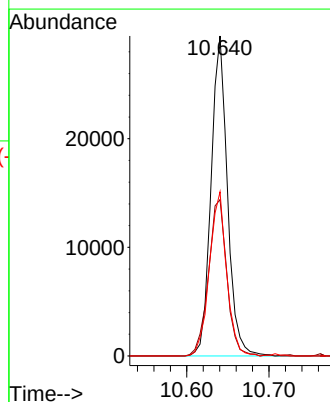
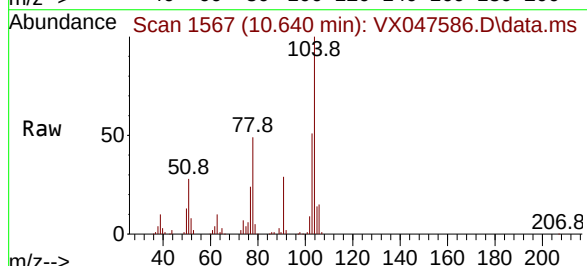
Tgt Ion:104 Resp: 40872

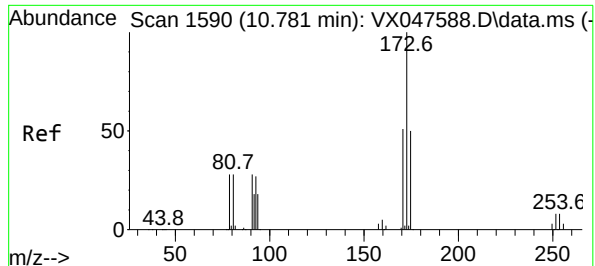
Ion Ratio Lower Upper

104 100

78 54.8 43.1 64.7

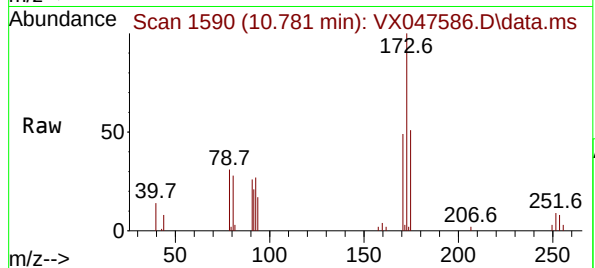
103 53.7 43.1 64.7





#71
Bromoform
Concen: 5.006 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

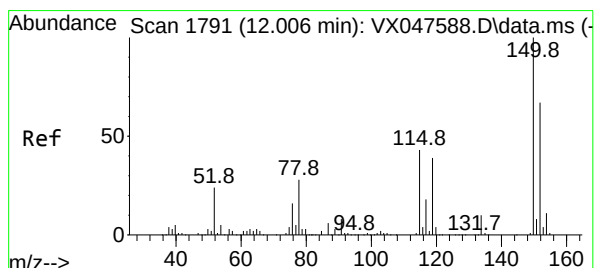
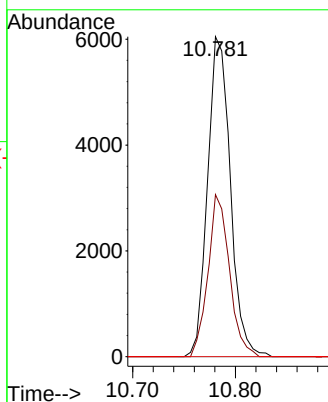
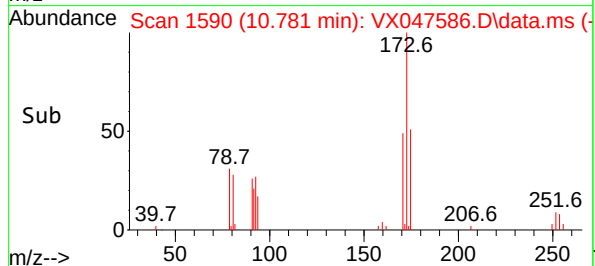
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



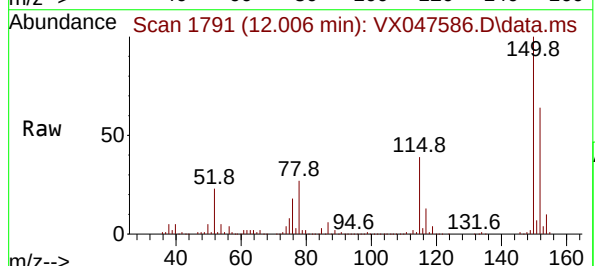
Tgt Ion:173 Resp: 9298
Ion Ratio Lower Upper
173 100
175 47.9 24.9 74.6
254 0.0 0.1 0.1

Manual Integrations
APPROVED

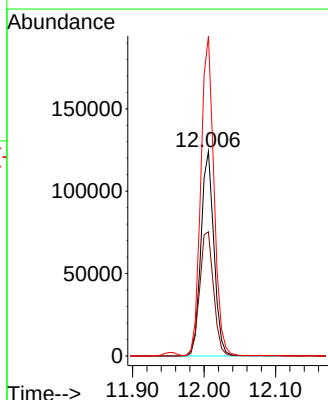
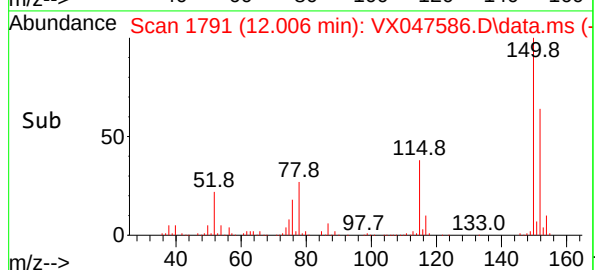
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

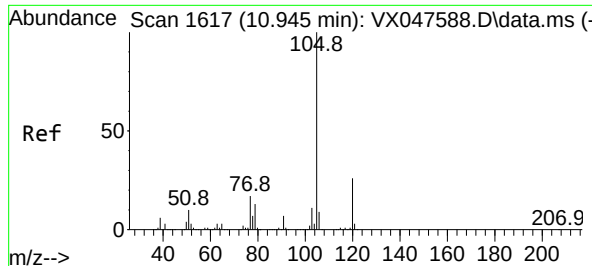


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16



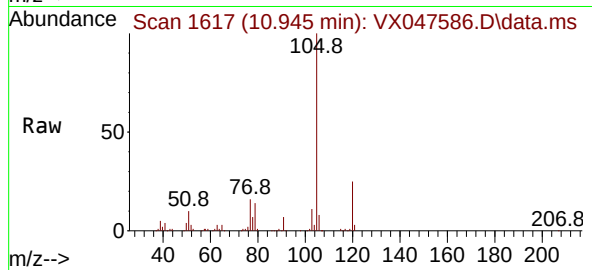
Tgt Ion:152 Resp: 156219
Ion Ratio Lower Upper
152 100
115 65.6 44.9 134.5
150 157.8 0.0 352.0





#73
Isopropylbenzene
Concen: 5.139 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

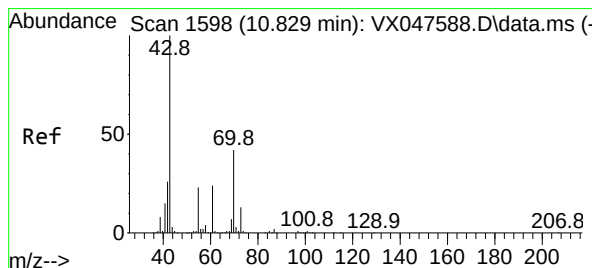
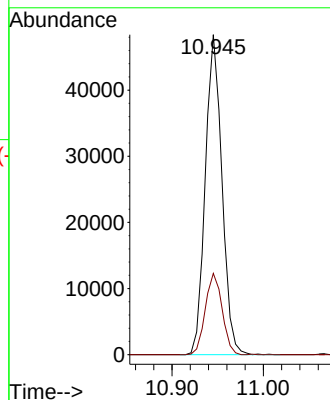
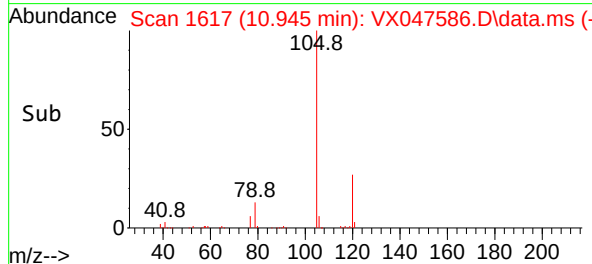
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:105 Resp: 61029
Ion Ratio Lower Upper
105 100
120 25.6 12.8 38.4

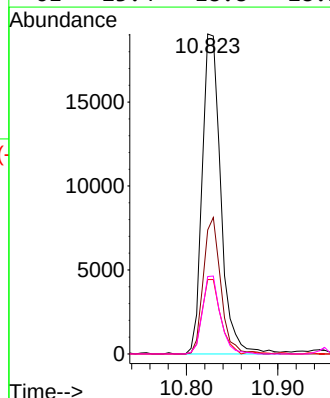
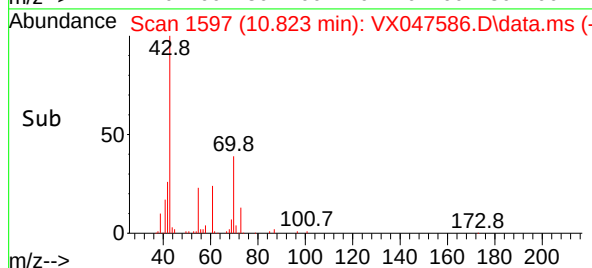
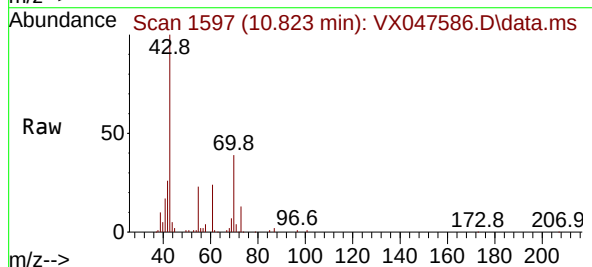
Manual Integrations
APPROVED

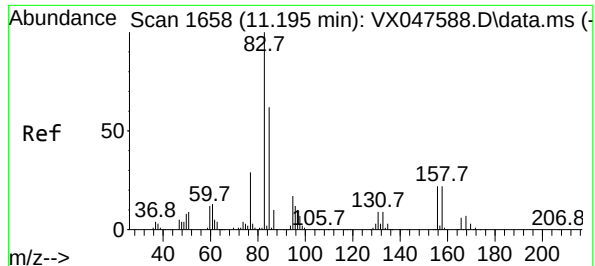
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#74
N-ethyl acetate
Concen: 4.980 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 43 Resp: 26969
Ion Ratio Lower Upper
43 100
70 39.9 32.0 48.0
55 23.1 18.9 28.3
61 23.4 18.8 28.2





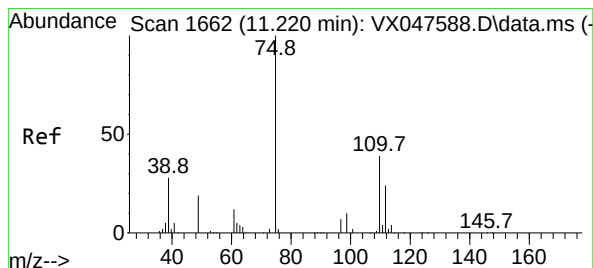
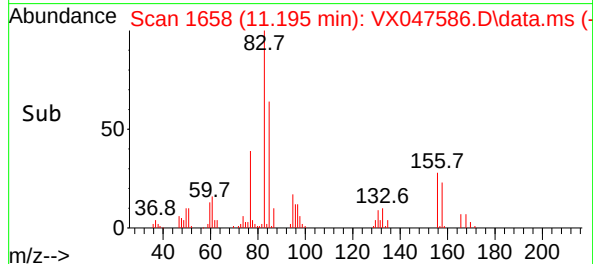
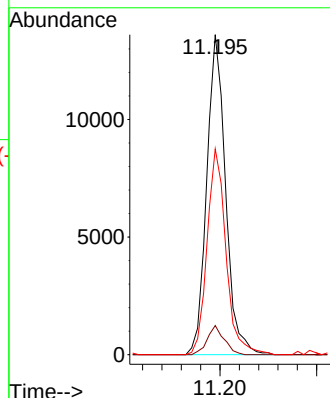
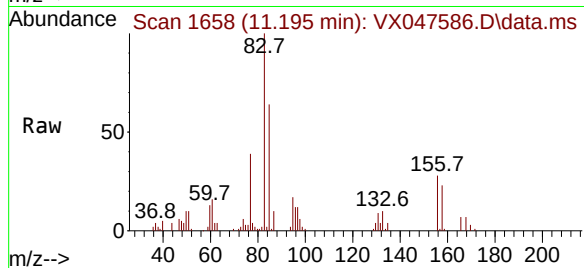
#75
1,1,2,2-Tetrachloroethane
Concen: 5.138 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion: 83 Resp: 1846
Ion Ratio Lower Upper
83 100
131 8.2 5.0 14.9
85 64.4 31.6 95.0

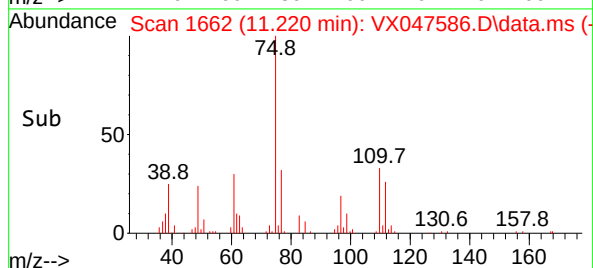
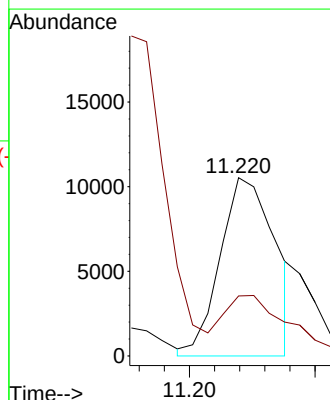
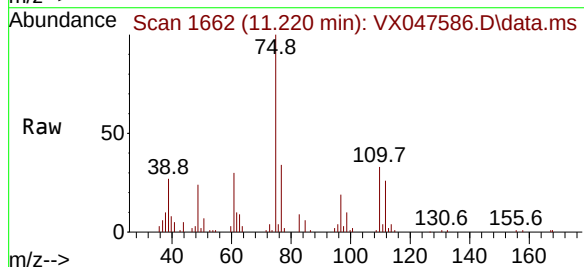
Manual Integrations
APPROVED

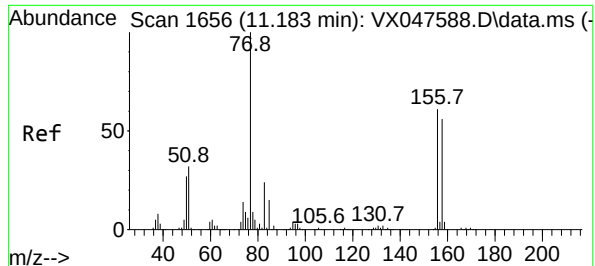
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#76
1,2,3-Trichloropropane
Concen: 4.927 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 75 Resp: 15982
Ion Ratio Lower Upper
75 100
77 40.6 18.8 56.4





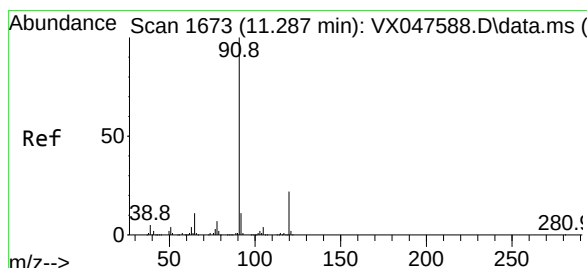
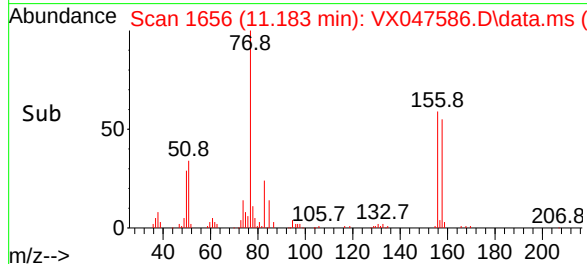
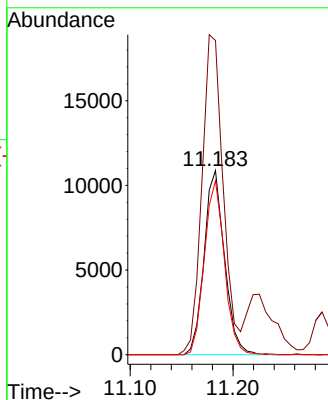
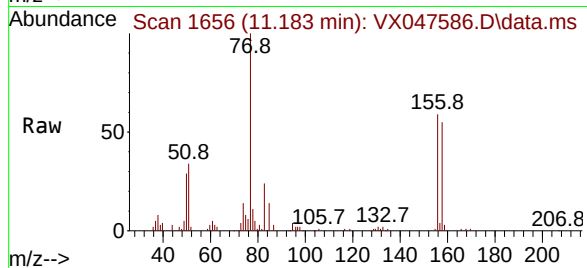
#77
Bromobenzene
Concen: 5.150 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:	156	Resp:	1506
Ion Ratio	Lower	Upper	
156	100		
77	180.3	89.7	269.1
158	92.6	47.9	143.6

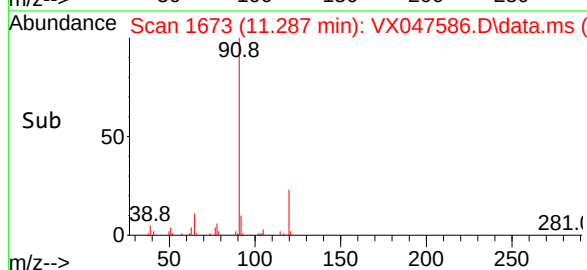
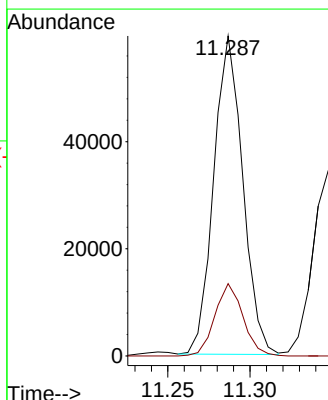
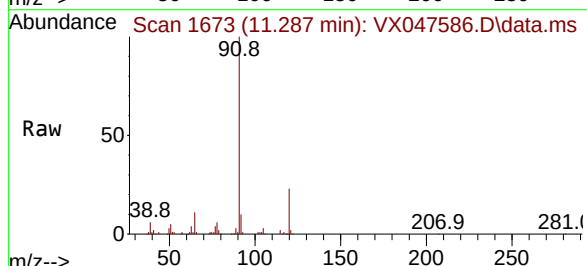
Manual Integrations
APPROVED

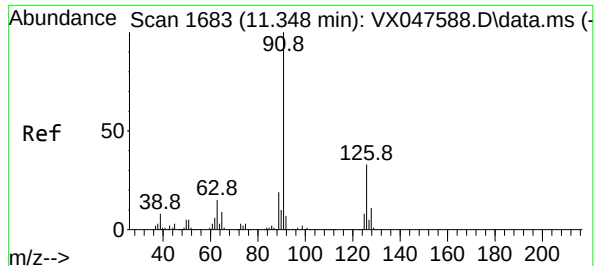
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#78
n-propylbenzene
Concen: 5.192 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion:	91	Resp:	72900
Ion Ratio	Lower	Upper	
91	100		
120	22.0	11.1	33.1





#79

2-Chlorotoluene

Concen: 5.194 ug/l

RT: 11.348 min Scan# 1683

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 4466

Ion Ratio Lower Upper

91 100

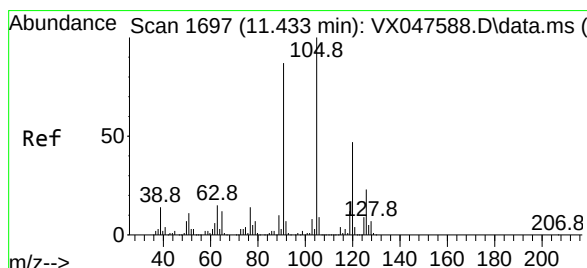
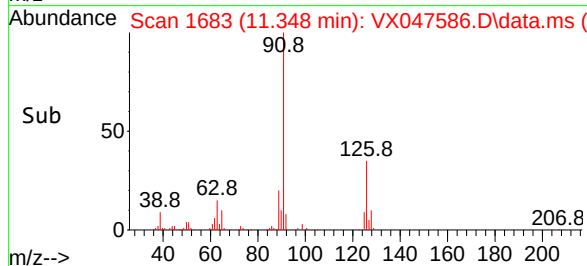
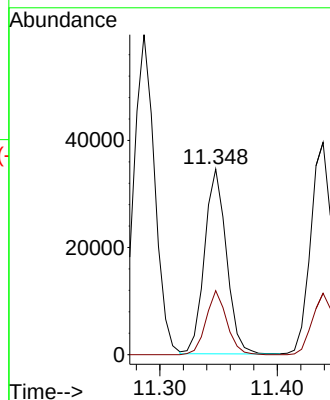
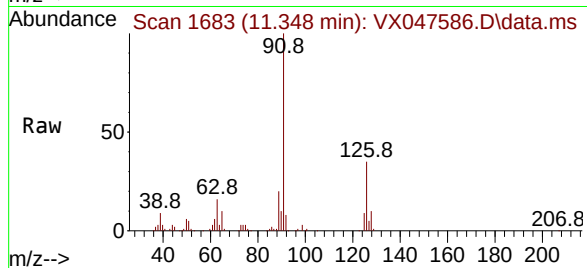
126 32.7 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#80

1,3,5-Trimethylbenzene

Concen: 5.179 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX047586.D

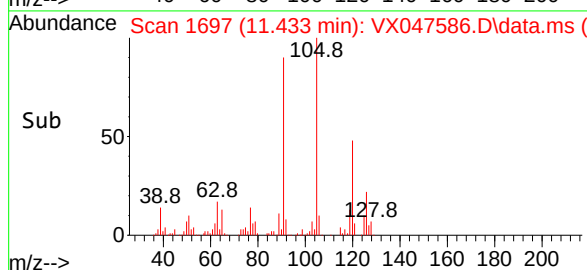
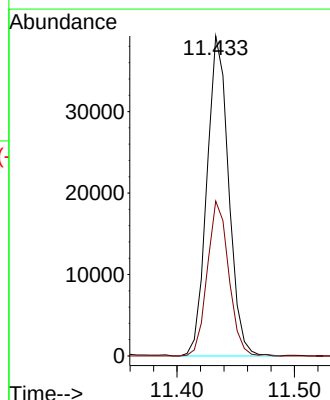
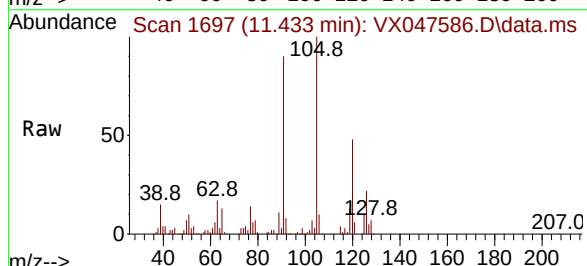
Acq: 16 Sep 2025 10:16

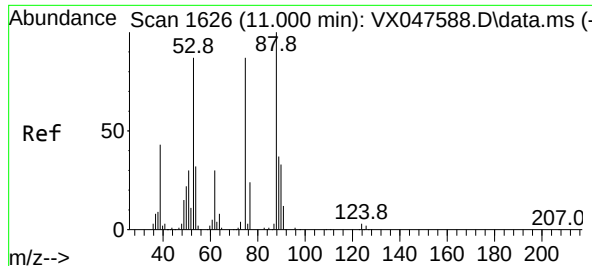
Tgt Ion:105 Resp: 50535

Ion Ratio Lower Upper

105 100

120 47.7 23.6 70.8





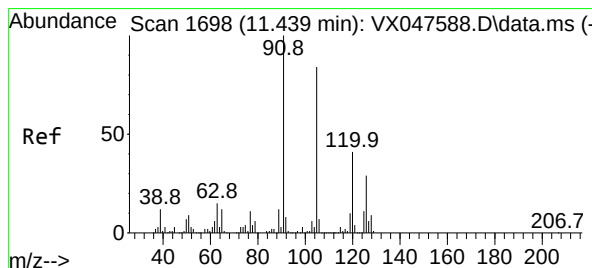
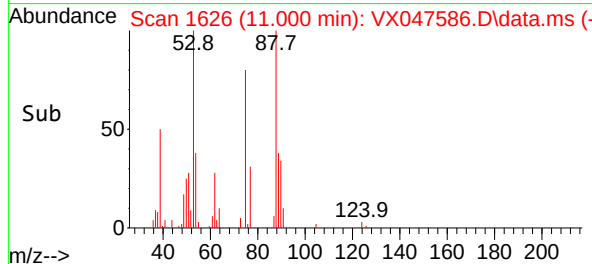
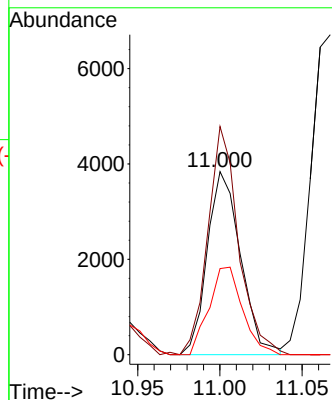
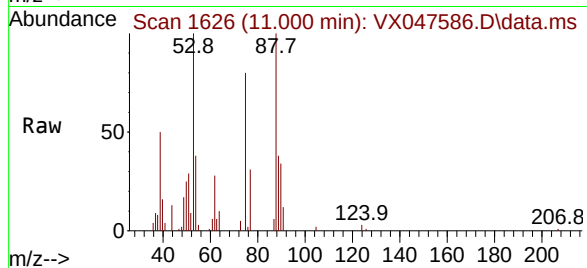
#81
trans-1,4-Dichloro-2-butene
Concen: 4.364 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 541
Ion Ratio Lower Upper
75 100
53 114.9 83.4 125.2
89 48.3 36.3 54.5

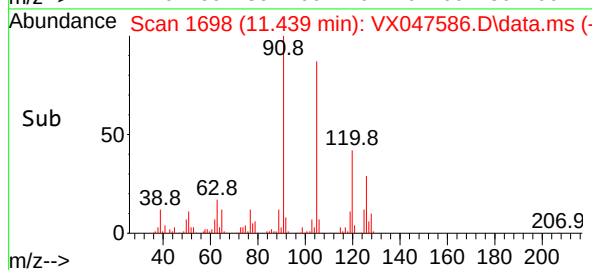
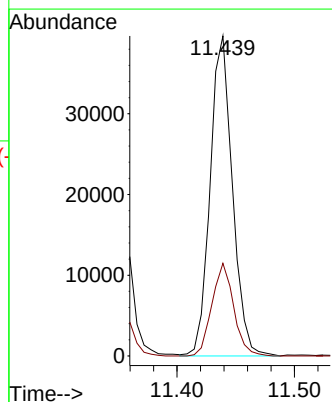
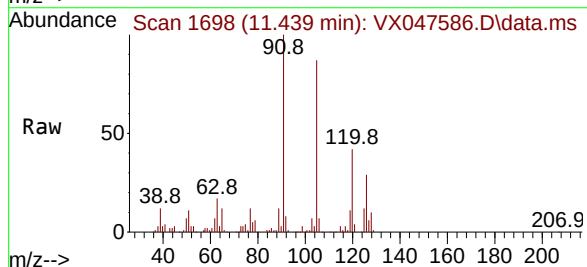
Manual Integrations
APPROVED

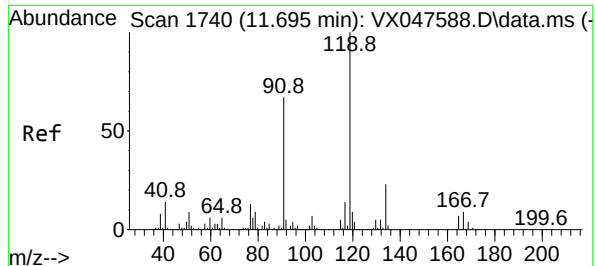
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#82
4-Chlorotoluene
Concen: 5.149 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion: 91 Resp: 52294
Ion Ratio Lower Upper
91 100
126 28.3 14.2 42.6





#83

tert-Butylbenzene

Concen: 5.041 ug/l

RT: 11.695 min Scan# 1740

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

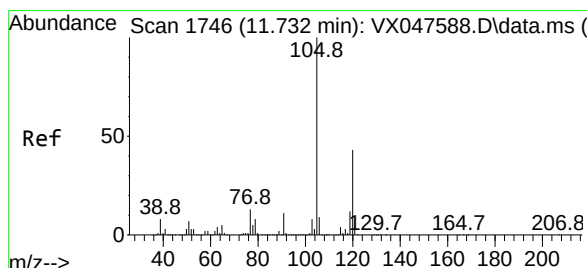
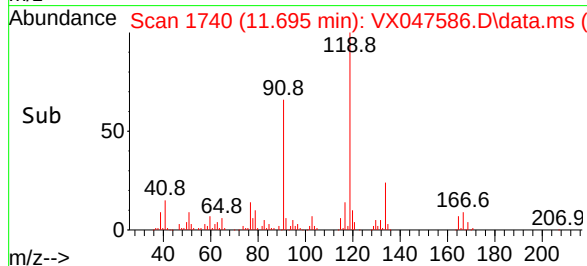
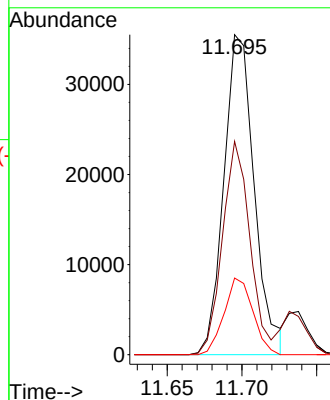
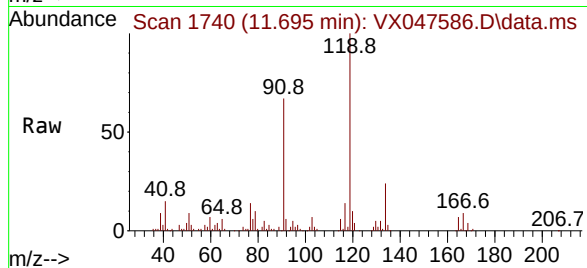
Tgt Ion	Ratio	Lower	Upper
119	100		
91	60.1	29.6	88.8
134	22.7	11.0	33.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#84

1,2,4-Trimethylbenzene

Concen: 5.214 ug/l

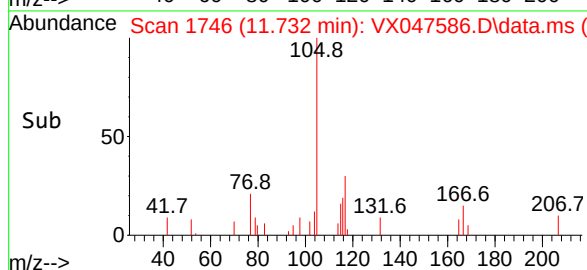
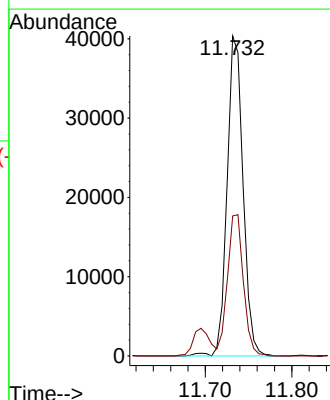
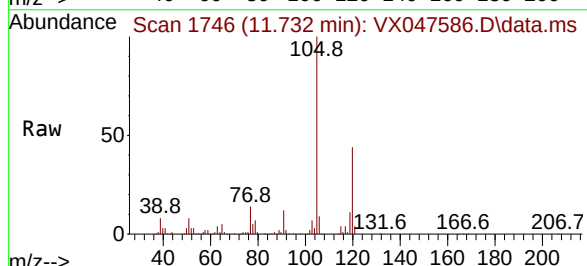
RT: 11.732 min Scan# 1746

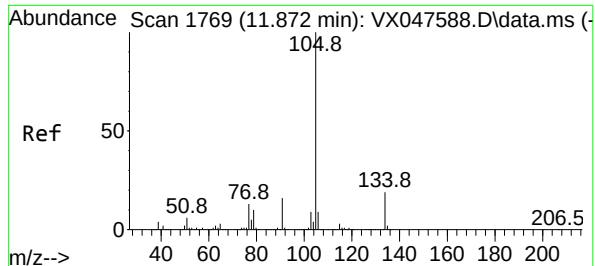
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1





#85

sec-Butylbenzene

Concen: 5.268 ug/l

RT: 11.872 min Scan# 1769

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 6250

Ion Ratio Lower Upper

105 100

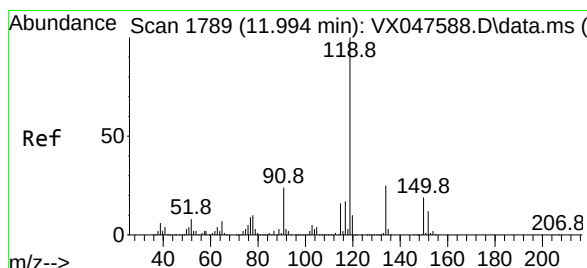
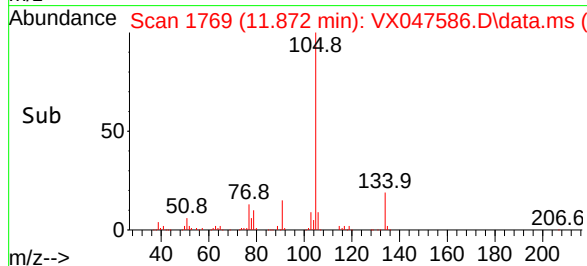
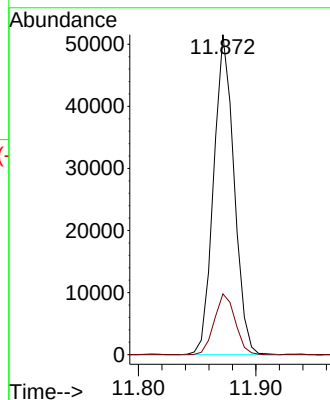
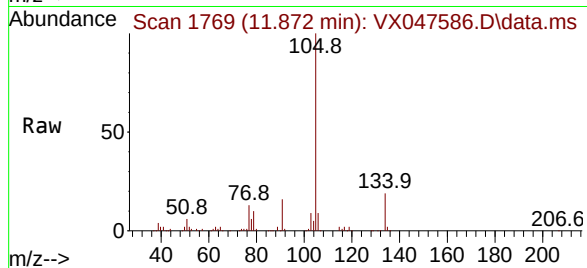
134 19.4 9.8 29.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#86

p-Isopropyltoluene

Concen: 5.244 ug/l

RT: 11.994 min Scan# 1789

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

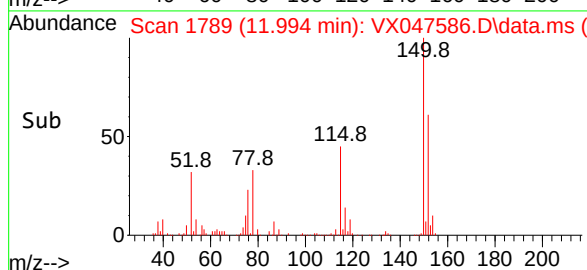
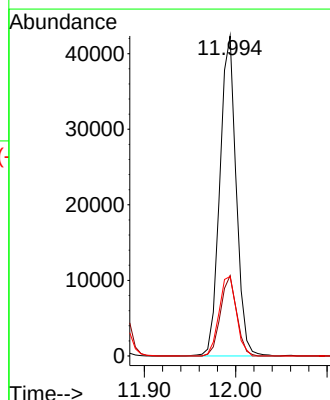
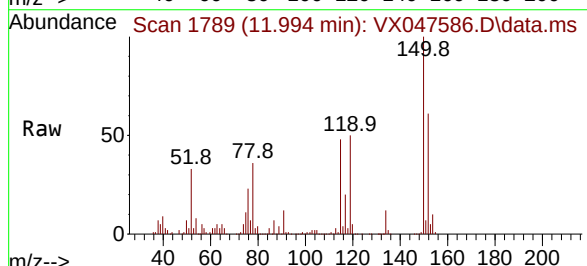
Tgt Ion:119 Resp: 52674

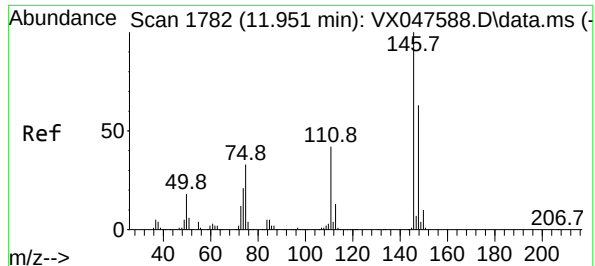
Ion Ratio Lower Upper

119 100

134 24.7 12.6 37.8

91 26.2 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 5.175 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

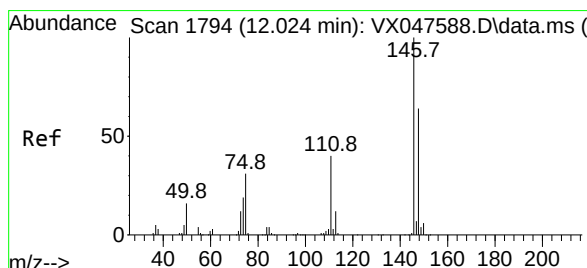
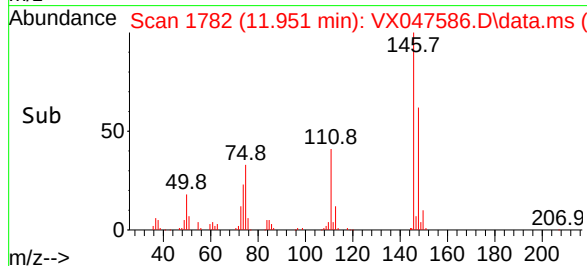
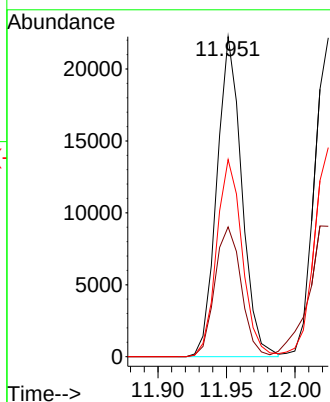
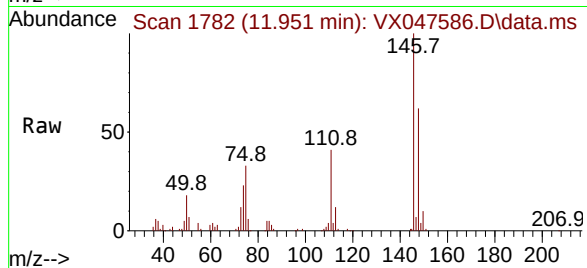
VSTDIC005

Tgt Ion:	146	Resp:	28110
Ion Ratio	Lower	Upper	
146	100		
111	43.0	21.5	64.5
148	63.4	32.0	96.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#88

1,4-Dichlorobenzene

Concen: 5.294 ug/l

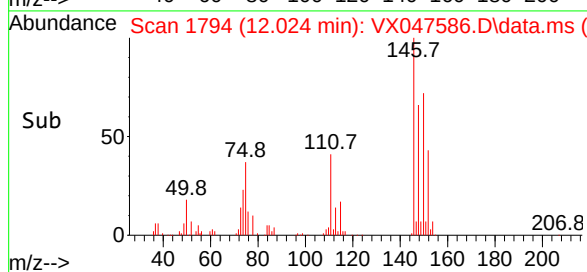
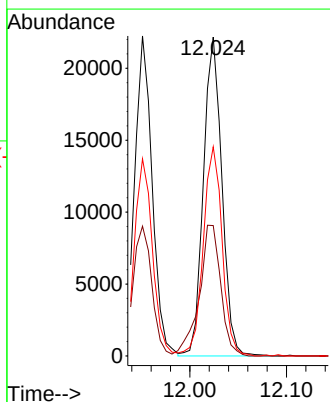
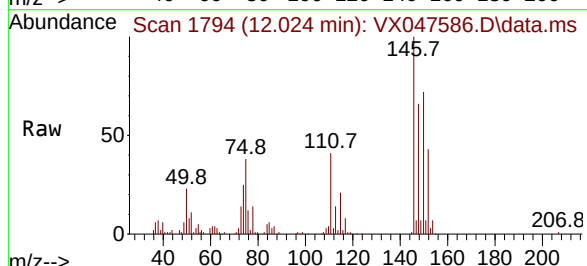
RT: 12.024 min Scan# 1794

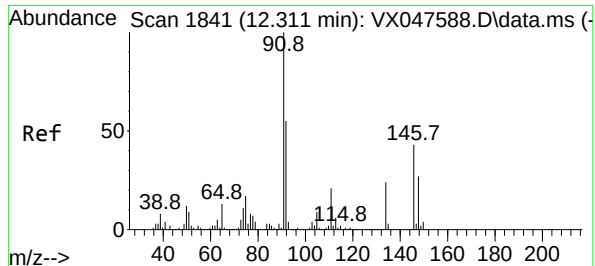
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	146	Resp:	29519
Ion Ratio	Lower	Upper	
146	100		
111	47.8	20.8	62.4
148	66.9	31.7	95.1





#89

n-Butylbenzene

Concen: 5.159 ug/l

RT: 12.317 min Scan# 1842

Delta R.T. 0.006 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

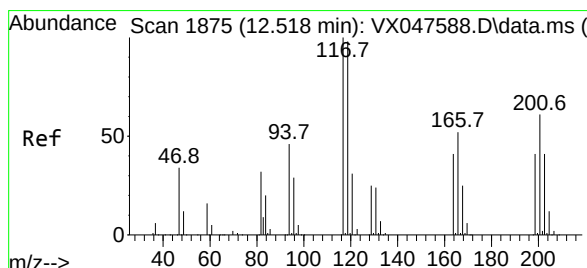
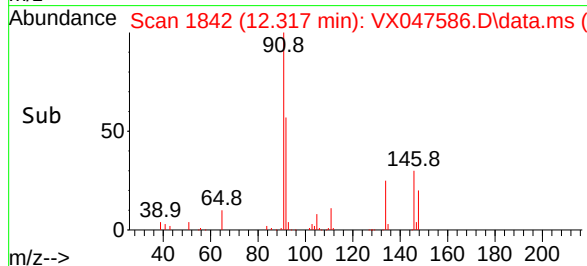
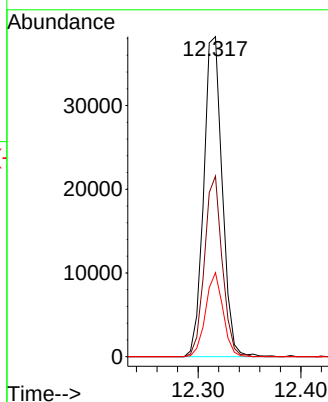
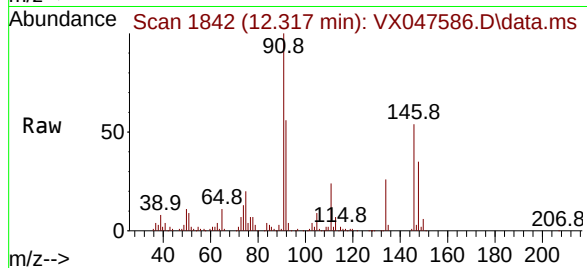
VSTDIC005

Tgt Ion:	91	Resp:	4795
Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.6	82.7
134	24.6	12.6	37.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachloroethane

Concen: 5.007 ug/l

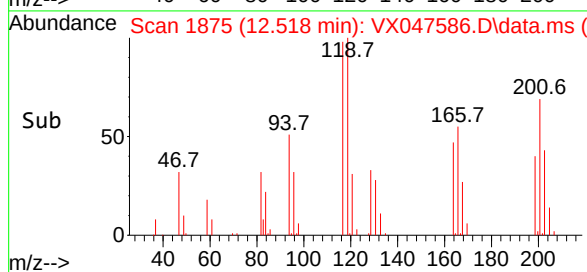
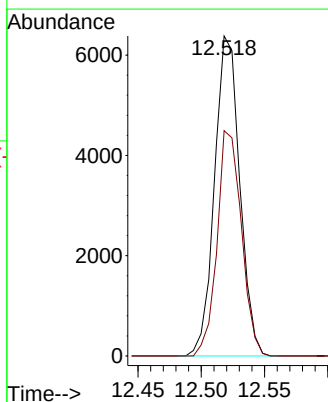
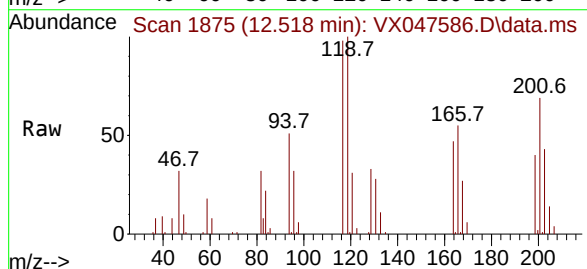
RT: 12.518 min Scan# 1875

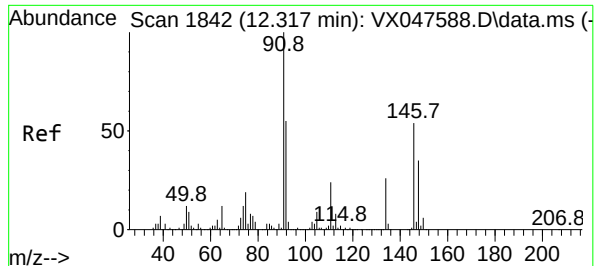
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	117	Resp:	8830
Ion	Ratio	Lower	Upper
117	100		
201	67.9	34.2	102.5





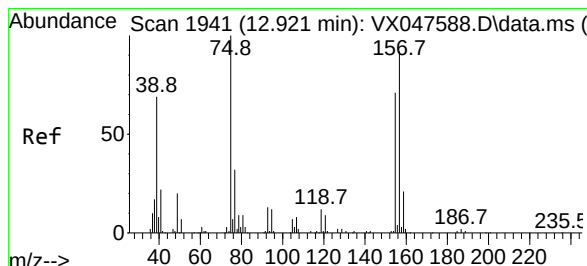
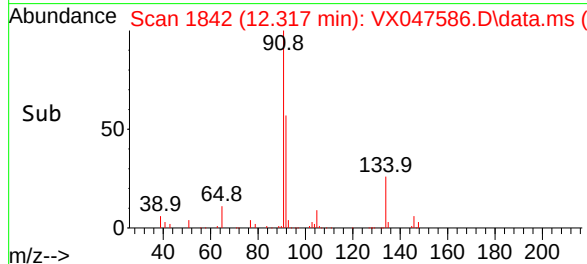
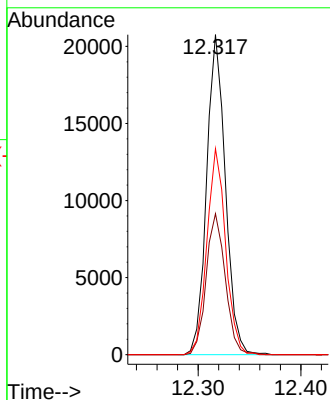
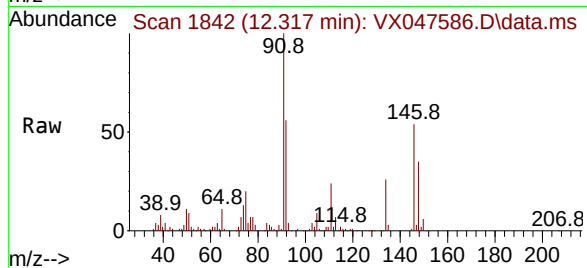
#91
1,2-Dichlorobenzene
Concen: 5.102 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.9	22.2	66.6
148	64.2	31.8	95.4

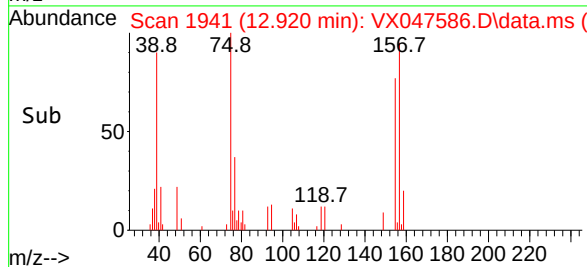
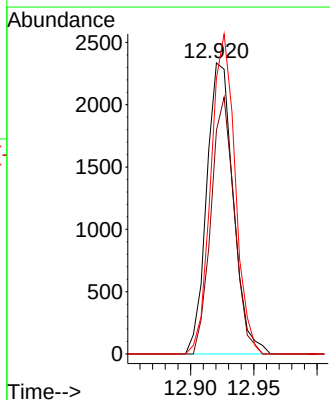
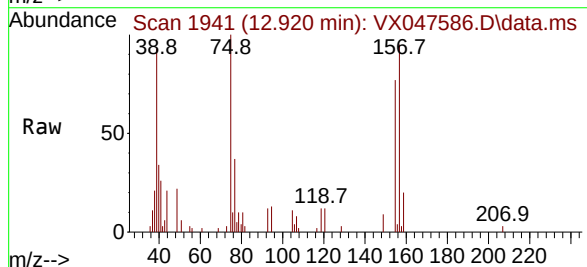
Manual Integrations
APPROVED

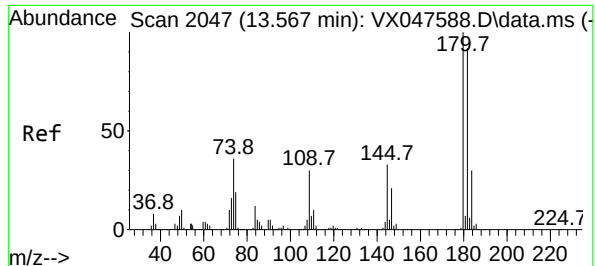
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 4.690 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Tgt Ion	Ratio	Lower	Upper
75	100		
155	77.4	37.7	113.1
157	100.1	49.8	149.4





#93

1,2,4-Trichlorobenzene

Concen: 5.103 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

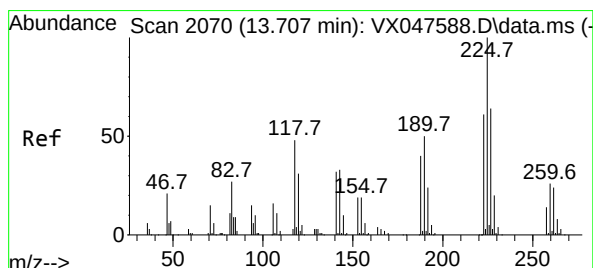
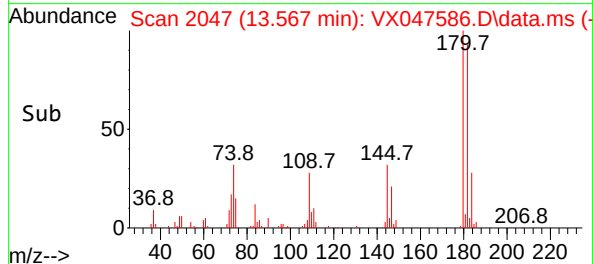
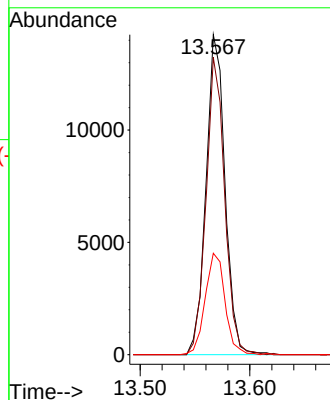
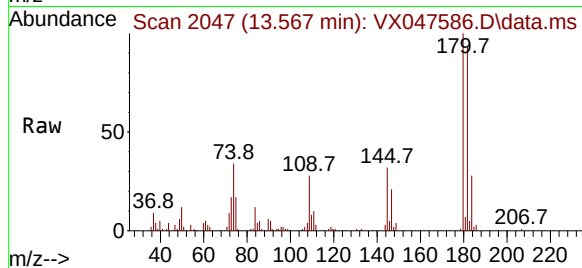
VSTDIC005

Tgt Ion:	180	Resp:	1716
Ion Ratio	Lower	Upper	
180	100		
182	91.2	46.6	139.8
145	33.2	16.4	49.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#94

Hexachlorobutadiene

Concen: 5.158 ug/l

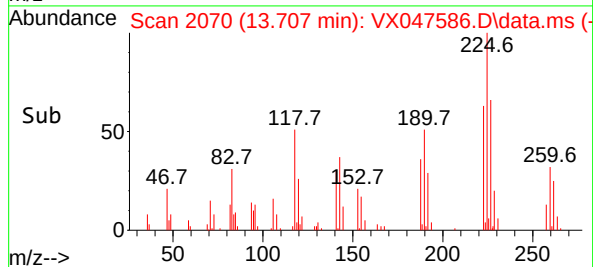
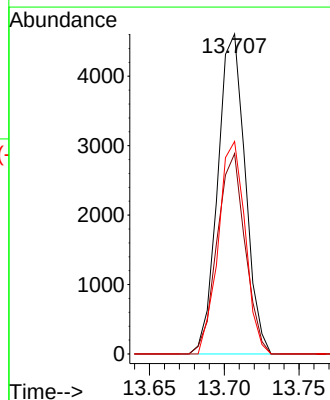
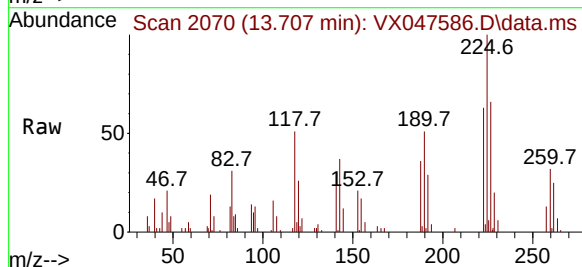
RT: 13.707 min Scan# 2070

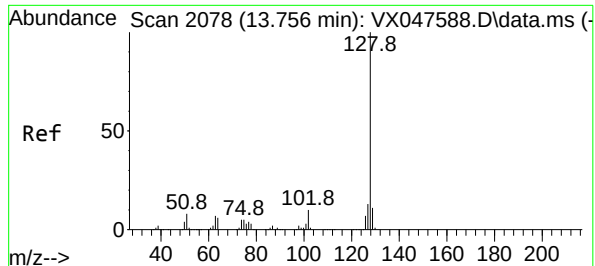
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	225	Resp:	5894
Ion Ratio	Lower	Upper	
225	100		
223	63.7	31.7	95.1
227	64.7	32.0	96.0





#95

Naphthalene

Concen: 4.808 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

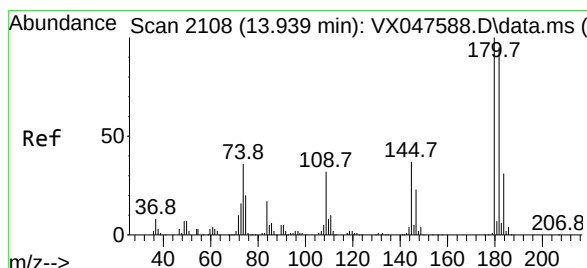
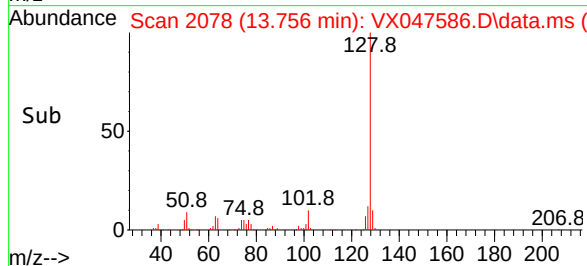
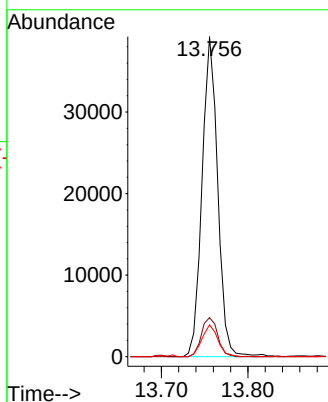
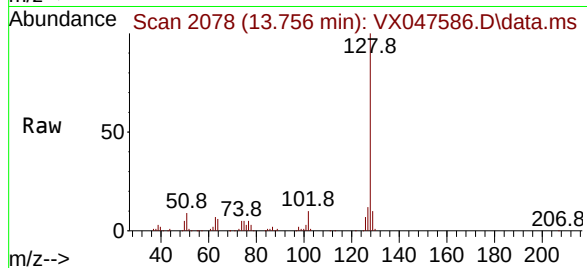
VSTDIC005

Tgt Ion:	128	Resp:	4925
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.2	15.2
129	10.1	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#96

1,2,3-Trichlorobenzene

Concen: 4.921 ug/l

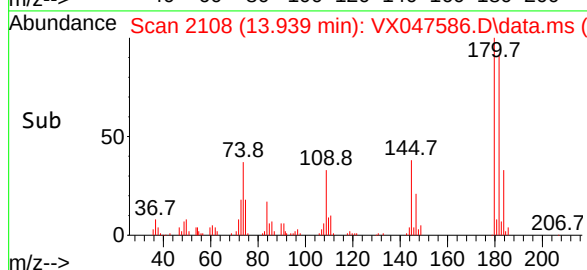
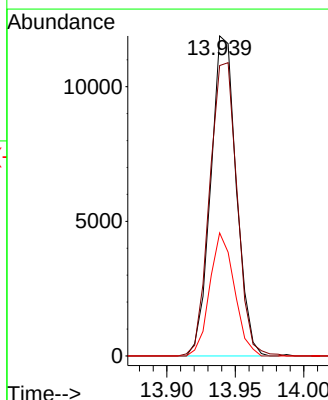
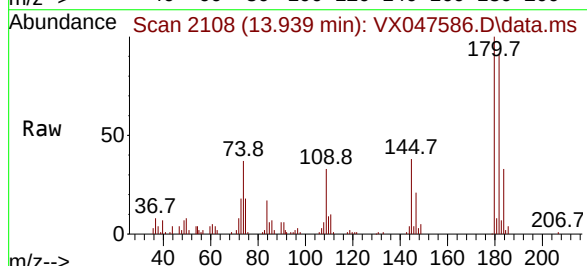
RT: 13.939 min Scan# 2108

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Tgt Ion:	180	Resp:	15400
Ion Ratio	Lower	Upper	
180	100		
182	98.0	47.6	142.8
145	37.1	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047587.D
 Acq On : 16 Sep 2025 10:37
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Quant Time: Sep 17 06:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	189559	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	336287	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	298629	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141590	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	49073	16.264	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	32.520%#		
35) Dibromofluoromethane	5.379	113	35788	15.868	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	31.740%#		
50) Toluene-d8	8.634	98	126875	16.258	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	32.520%#		
62) 4-Bromofluorobenzene	11.067	95	48454	16.360	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	32.720%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.179	85	44126	22.480	ug/l	100
3) Chloromethane	1.300	50	56023	21.716	ug/l	96
4) Vinyl Chloride	1.386	62	54256	21.485	ug/l	96
5) Bromomethane	1.617	94	34193	21.353	ug/l	100
6) Chloroethane	1.697	64	35551	21.063	ug/l	97
7) Trichlorofluoromethane	1.898	101	78667	20.980	ug/l	100
8) Diethyl Ether	2.136	74	31335	20.429	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	45733	20.859	ug/l	98
10) Methyl Iodide	2.459	142	69935	20.452	ug/l	99
11) Tert butyl alcohol	2.946	59	32456	96.582	ug/l	98
12) 1,1-Dichloroethene	2.325	96	46863	20.808	ug/l	96
13) Acrolein	2.239	56	26159	84.473	ug/l	100
14) Allyl chloride	2.666	41	94710	20.379	ug/l	97
15) Acrylonitrile	3.062	53	130143	104.554	ug/l	99
16) Acetone	2.373	43	151538	115.507	ug/l	100
17) Carbon Disulfide	2.520	76	133296	21.620	ug/l	98
18) Methyl Acetate	2.703	43	54120	18.536	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	168426	20.486	ug/l	98
20) Methylene Chloride	2.788	84	57153	20.581	ug/l	97
21) trans-1,2-Dichloroethene	3.093	96	50413	20.791	ug/l	94
22) Diisopropyl ether	3.757	45	188598	20.940	ug/l	96
23) Vinyl Acetate	3.715	43	765675	106.218	ug/l	100
24) 1,1-Dichloroethane	3.605	63	98509	20.578	ug/l	99
25) 2-Butanone	4.538	43	179487	109.679	ug/l	94
26) 2,2-Dichloropropane	4.471	77	81413	20.459	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	60865	20.497	ug/l	98
28) Bromochloromethane	4.891	49	34085	16.309	ug/l	100
29) Tetrahydrofuran	4.995	42	102935	104.560	ug/l	97
30) Chloroform	5.080	83	103586	21.413	ug/l	99
31) Cyclohexane	5.464	56	82770	20.759	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	86500	21.081	ug/l	99
36) 1,1-Dichloropropene	5.684	75	68395	20.754	ug/l	99
37) Ethyl Acetate	4.702	43	74499	21.113	ug/l	96
38) Carbon Tetrachloride	5.665	117	74636	20.844	ug/l	95
39) Methylcyclohexane	7.366	83	79499	21.251	ug/l	98
40) Benzene	6.025	78	210711	21.051	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047587.D
 Acq On : 16 Sep 2025 10:37
 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 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:12:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	38525	21.148	ug/l	99
42) 1,2-Dichloroethane	6.074	62	80646	21.175	ug/l	99
43) Isopropyl Acetate	6.324	43	119623	20.670	ug/l	100
44) Trichloroethene	7.110	130	51369	21.228	ug/l	97
45) 1,2-Dichloropropane	7.415	63	53046	20.697	ug/l	97
46) Dibromomethane	7.568	93	38910	20.862	ug/l	99
47) Bromodichloromethane	7.805	83	80831	21.002	ug/l	98
48) Methyl methacrylate	7.677	41	60182	20.877	ug/l	98
49) 1,4-Dioxane	7.647	88	12047	413.530	ug/l	95
51) 4-Methyl-2-Pentanone	8.561	43	338370	105.456	ug/l	100
52) Toluene	8.708	92	129193	20.950	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	80972	20.625	ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	86648	20.650	ug/l	99
55) 1,1,2-Trichloroethane	9.140	97	49857	20.967	ug/l	98
56) Ethyl methacrylate	9.104	69	79011	21.158	ug/l	99
57) 1,3-Dichloropropane	9.293	76	85511	20.934	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	141395	86.617	ug/l	100
59) 2-Hexanone	9.415	43	250007	108.488	ug/l	99
60) Dibromochloromethane	9.506	129	57994	21.167	ug/l	99
61) 1,2-Dibromoethane	9.598	107	51614	21.310	ug/l	99
64) Tetrachloroethene	9.262	164	40840	20.979	ug/l	95
65) Chlorobenzene	10.061	112	140642	20.731	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.146	131	48022	20.513	ug/l	99
67) Ethyl Benzene	10.177	91	244737	20.907	ug/l	98
68) m/p-Xylenes	10.287	106	182778	41.951	ug/l	100
69) o-Xylene	10.628	106	87651	20.799	ug/l	98
70) Styrene	10.640	104	154077	20.866	ug/l	99
71) Bromoform	10.780	173	35922	20.550	ug/l #	98
73) Isopropylbenzene	10.945	105	225730	20.970	ug/l	99
74) N-amyl acetate	10.829	43	104823	21.354	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.195	83	68132	20.920	ug/l	99
76) 1,2,3-Trichloropropane	11.225	75	60797m	20.680	ug/l	
77) Bromobenzene	11.183	156	56161	21.183	ug/l	99
78) n-propylbenzene	11.286	91	268399	21.092	ug/l	100
79) 2-Chlorotoluene	11.347	91	166237	21.329	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	187513	21.202	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	21553	19.173	ug/l	96
82) 4-Chlorotoluene	11.439	91	193122	20.980	ug/l	100
83) tert-Butylbenzene	11.695	119	189484	20.929	ug/l	100
84) 1,2,4-Trimethylbenzene	11.738	105	191477	21.355	ug/l	98
85) sec-Butylbenzene	11.872	105	223434	20.777	ug/l	100
86) p-Isopropyltoluene	11.994	119	190931	20.972	ug/l	98
87) 1,3-Dichlorobenzene	11.951	146	103584	21.035	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	105819	20.937	ug/l	99
89) n-Butylbenzene	12.317	91	176373	20.937	ug/l	99
90) Hexachloroethane	12.518	117	32526	20.349	ug/l	98
91) 1,2-Dichlorobenzene	12.317	146	99493	21.207	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	13729	20.821	ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	62722	20.571	ug/l	96
94) Hexachlorobutadiene	13.707	225	20456	19.751	ug/l	98
95) Naphthalene	13.756	128	193134	20.801	ug/l	99
96) 1,2,3-Trichlorobenzene	13.938	180	58409	20.593	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047587.D
Acq On : 16 Sep 2025 10:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Quant Time: Sep 17 06:12:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

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\VX091625\
 Data File : VX047587.D
 Acq On : 16 Sep 2025 10:37
 Operator : JC/MD
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_X

Client SampleId :

VSTDIC020

Manual Integrations

APPROVED

Reviewed By : John Carlone 09/17/2025

Supervised By : Mahesh Dadoda 09/18/2025

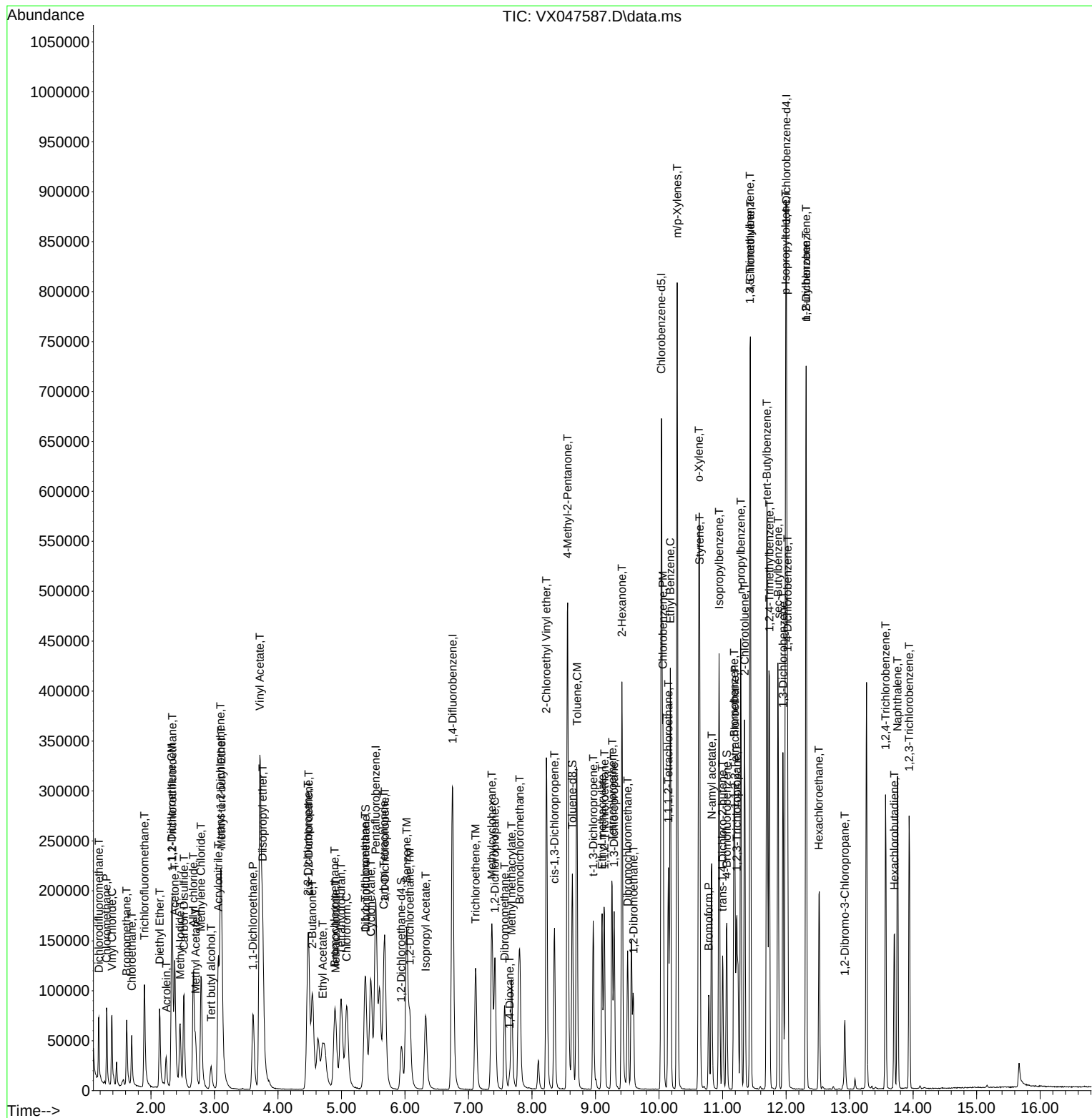
Quant Time: Sep 17 06:12:03 2025

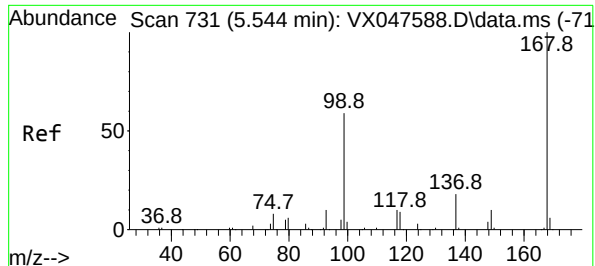
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M

Quant Title : SW846 8260

QLast Update : Wed Sep 17 06:04:35 2025

Response via : Initial Calibration





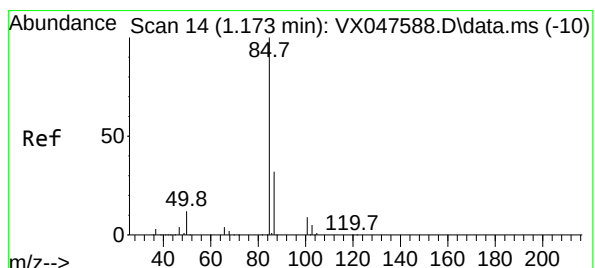
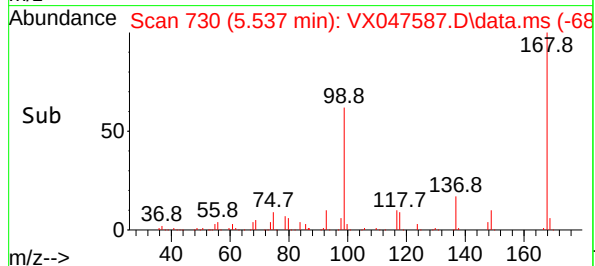
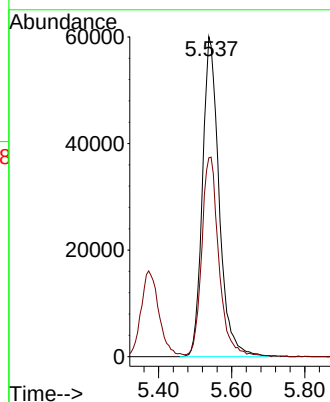
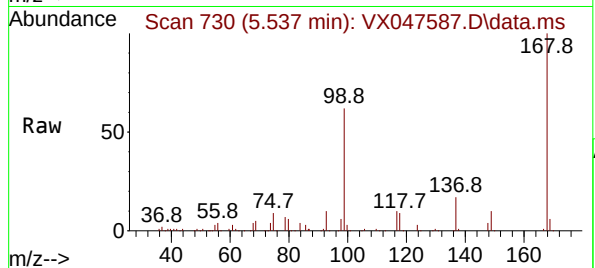
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.007 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 18955
Ion Ratio Lower Upper
168 100
99 61.9 48.8 73.2

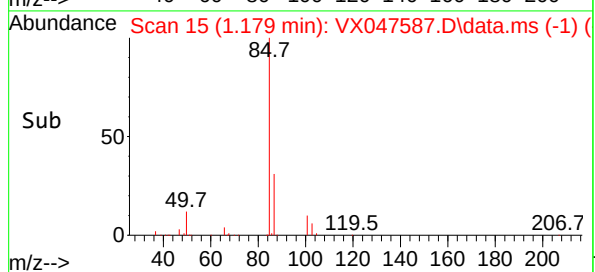
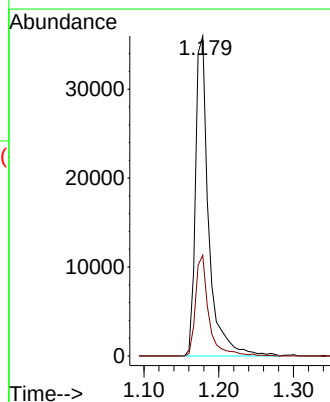
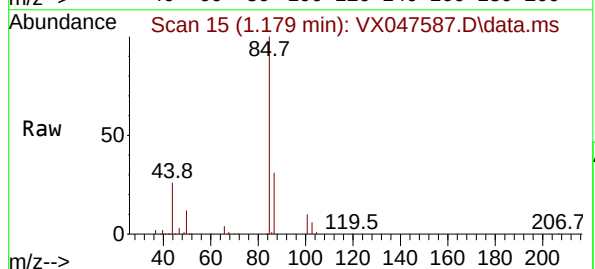
Manual Integrations
APPROVED

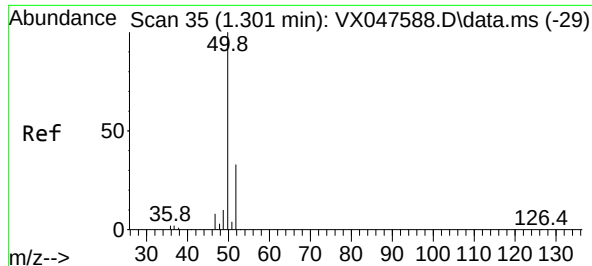
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#2
Dichlorodifluoromethane
Concen: 22.480 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 85 Resp: 44126
Ion Ratio Lower Upper
85 100
87 31.5 15.8 47.3





#3

Chloromethane

Concen: 21.716 ug/l

RT: 1.300 min Scan# 35

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 50 Resp: 5602

Ion Ratio Lower Upper

50 100

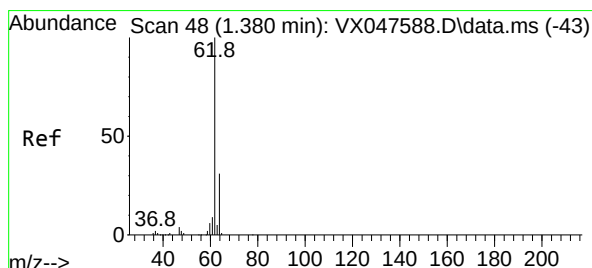
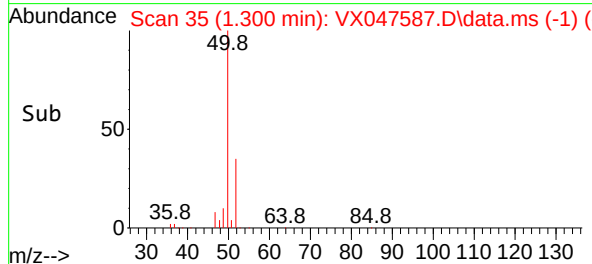
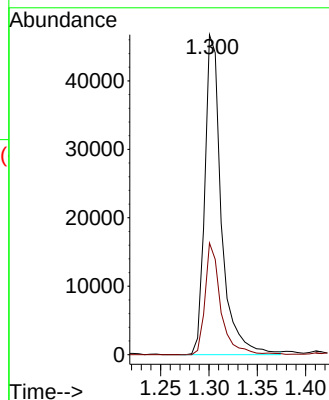
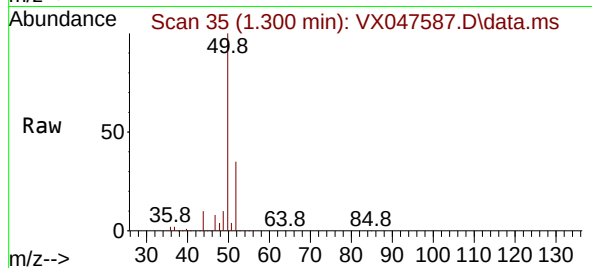
52 34.9 26.1 39.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#4

Vinyl Chloride

Concen: 21.485 ug/l

RT: 1.386 min Scan# 49

Delta R.T. 0.006 min

Lab File: VX047587.D

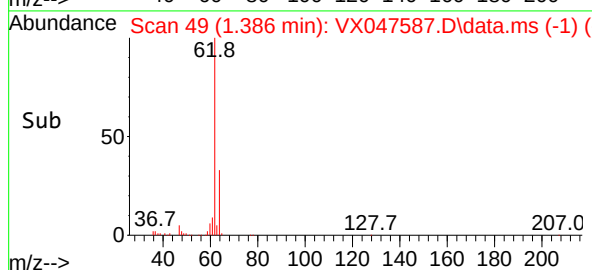
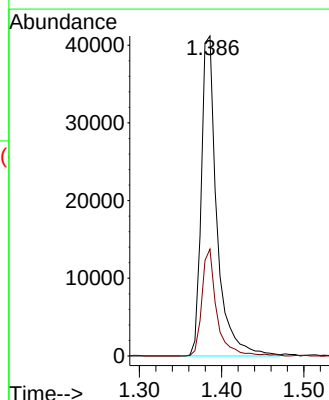
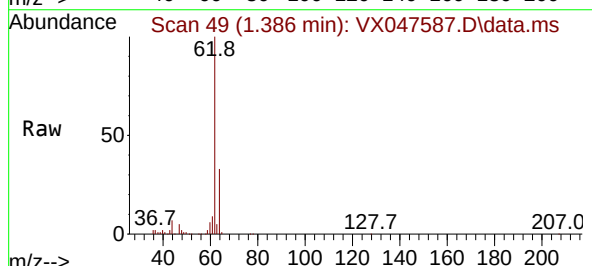
Acq: 16 Sep 2025 10:37

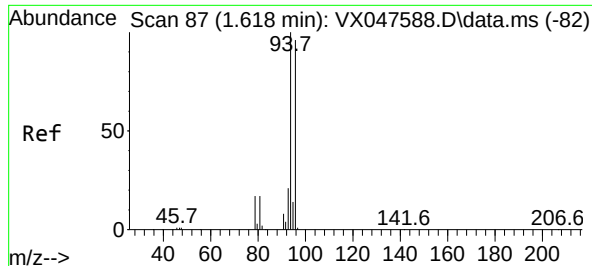
Tgt Ion: 62 Resp: 54256

Ion Ratio Lower Upper

62 100

64 33.4 24.9 37.3





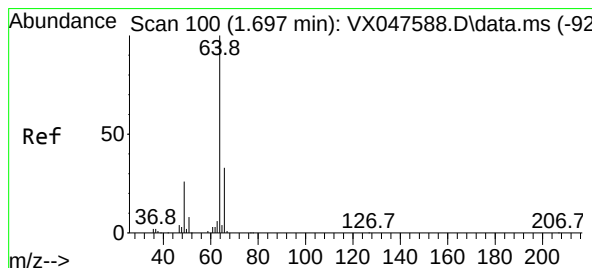
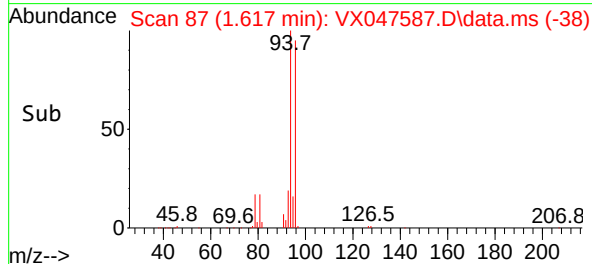
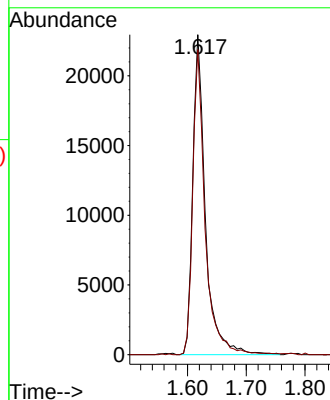
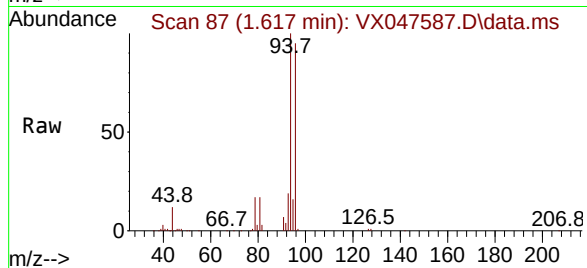
#5
Bromomethane
Concen: 21.353 ug/l
RT: 1.617 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 3419
Ion Ratio Lower Upper
94 100
96 95.3 76.6 115.0

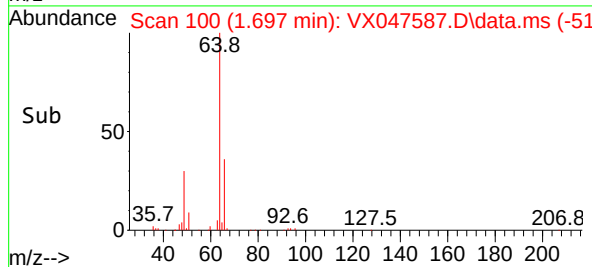
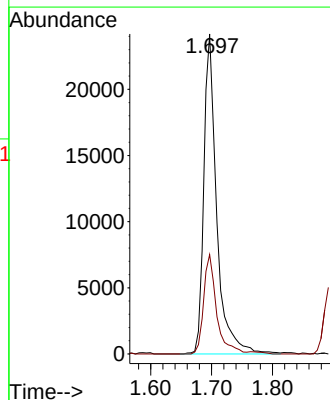
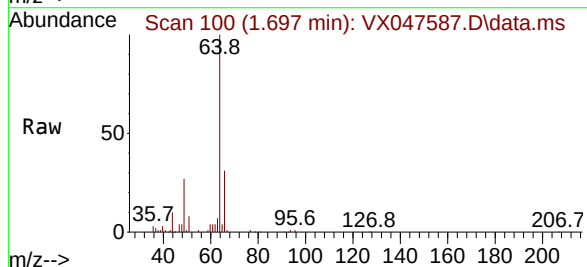
Manual Integrations
APPROVED

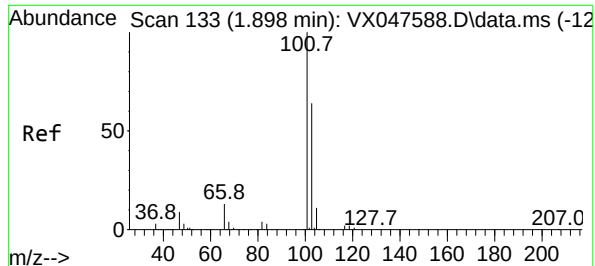
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#6
Chloroethane
Concen: 21.063 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 64 Resp: 35551
Ion Ratio Lower Upper
64 100
66 31.0 26.1 39.1





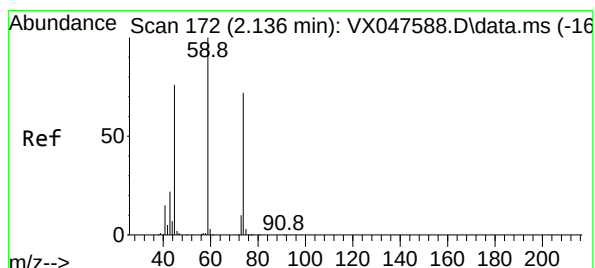
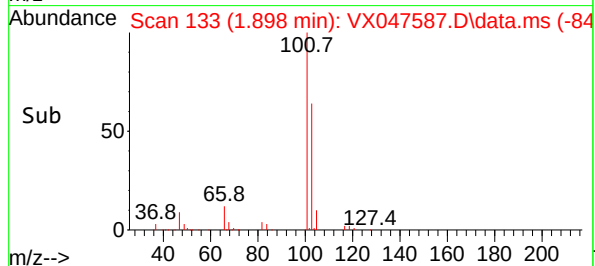
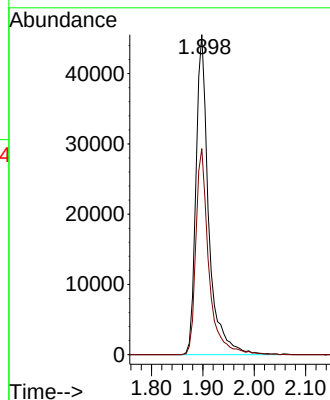
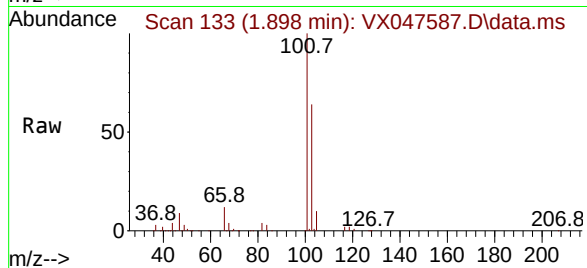
#7
Trichlorofluoromethane
Concen: 20.980 ug/l
RT: 1.898 min Scan# 133
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 7866
Ion Ratio Lower Upper
101 100
103 64.4 51.4 77.2

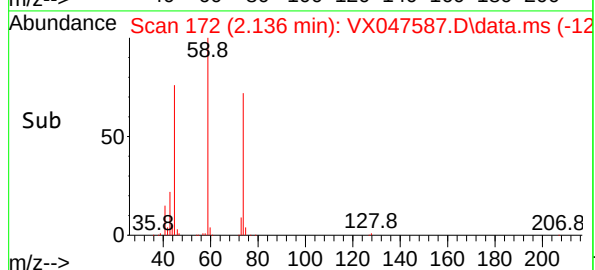
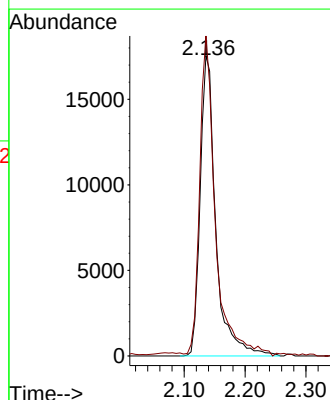
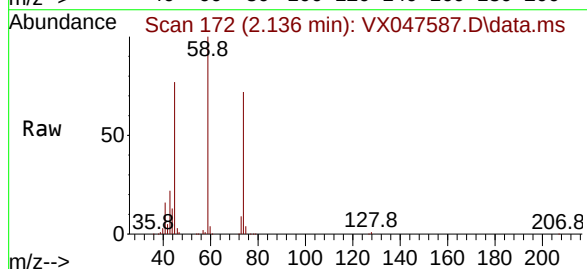
Manual Integrations
APPROVED

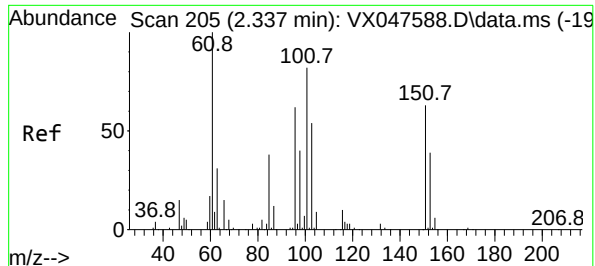
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#8
Diethyl Ether
Concen: 20.429 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 74 Resp: 31335
Ion Ratio Lower Upper
74 100
45 107.0 52.3 156.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.859 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

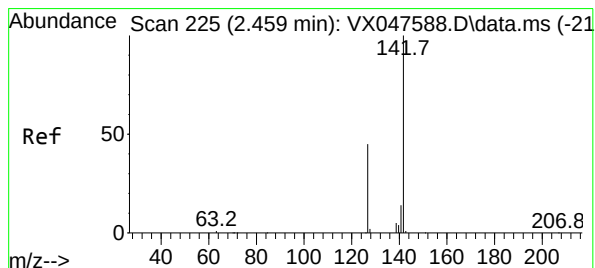
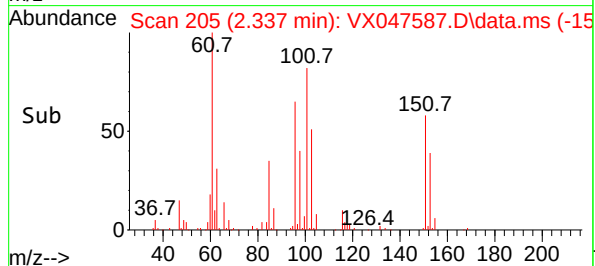
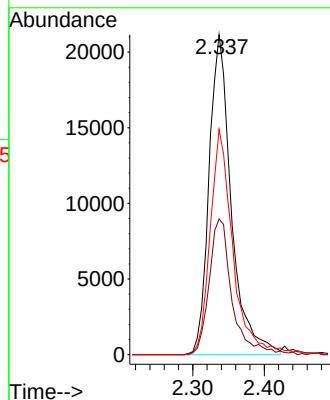
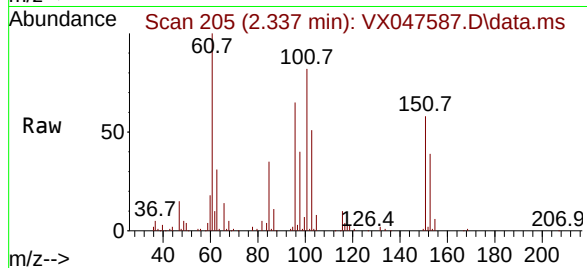
Tgt Ion:	101	Resp:	4573
Ion	Ratio	Lower	Upper
101	100		
85	43.6	35.5	53.3
151	72.1	59.4	89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#10

Methyl Iodide

Concen: 20.452 ug/l

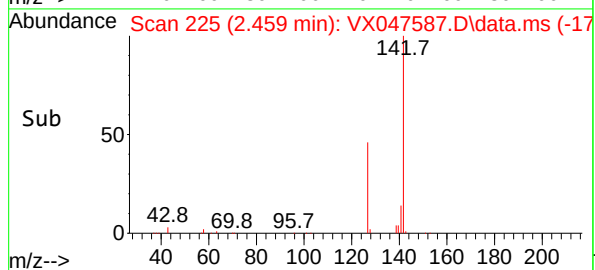
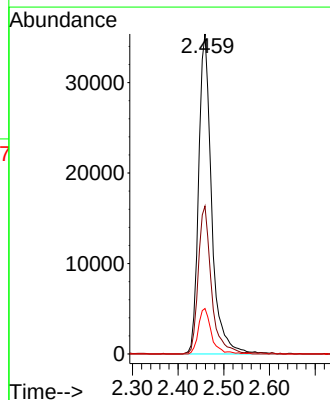
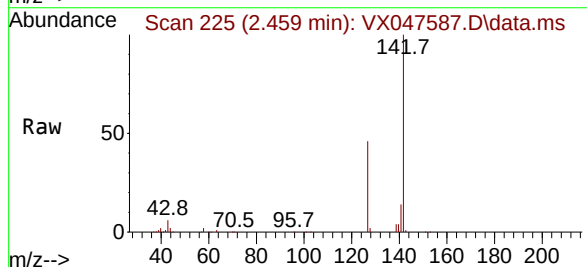
RT: 2.459 min Scan# 225

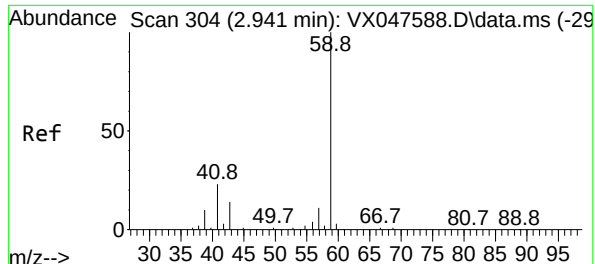
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:	142	Resp:	69935
Ion	Ratio	Lower	Upper
142	100		
127	46.9	37.2	55.8
141	14.3	11.4	17.0





#11

Tert butyl alcohol

Concen: 96.582 ug/l

RT: 2.946 min Scan# 304

Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 59 Resp: 32450

Ion Ratio Lower Upper

59 100

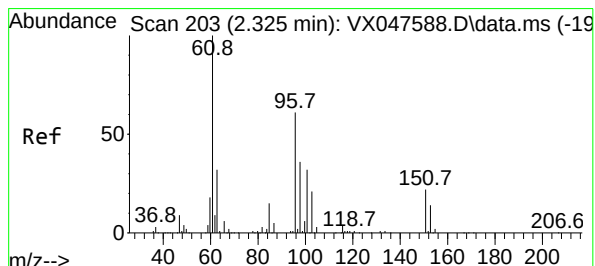
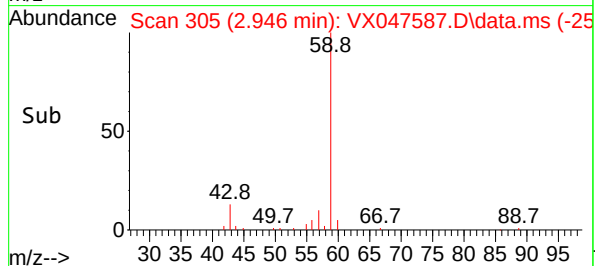
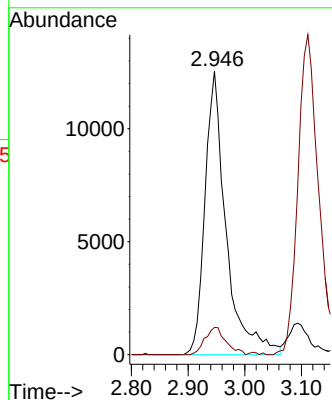
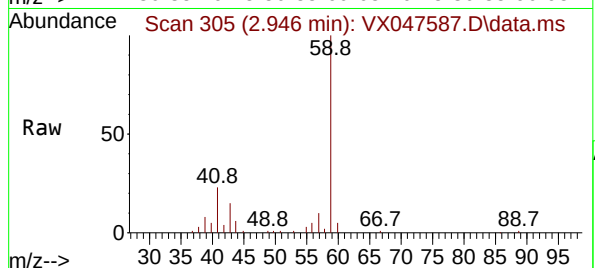
57 9.5 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#12

1,1-Dichloroethene

Concen: 20.808 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

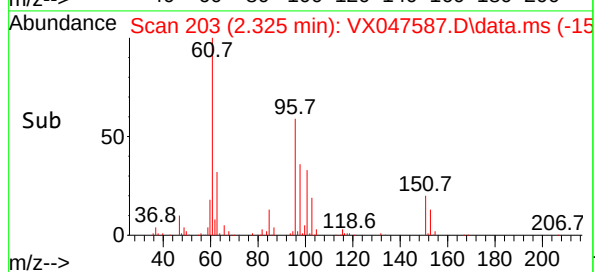
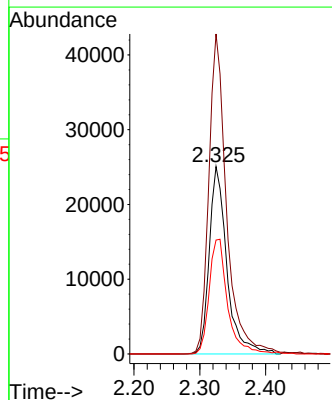
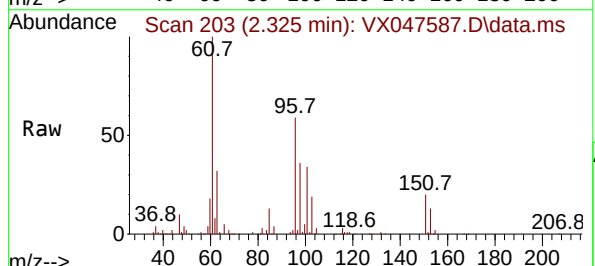
Tgt Ion: 96 Resp: 46863

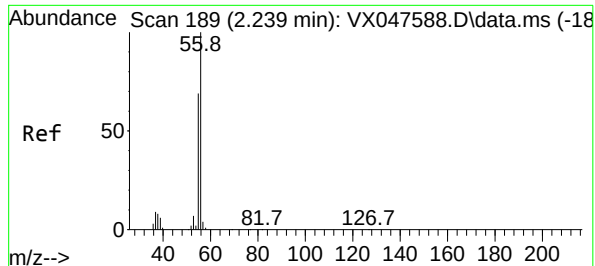
Ion Ratio Lower Upper

96 100

61 170.7 131.0 196.6

98 60.8 47.7 71.5





#13

Acrolein

Concen: 84.473 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 2615

Ion Ratio Lower Upper

56 100

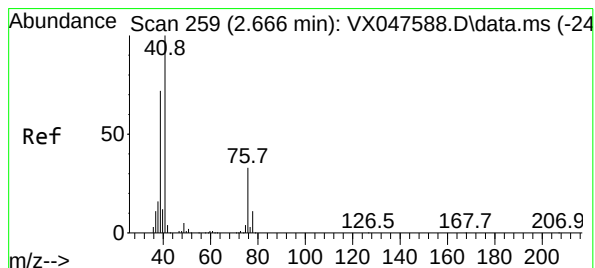
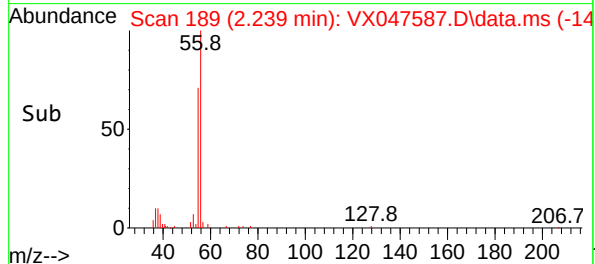
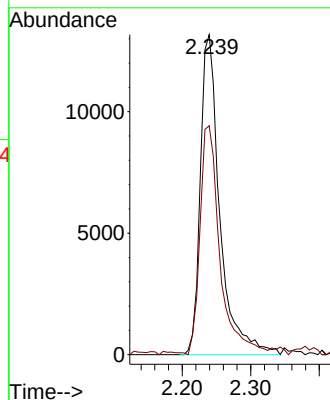
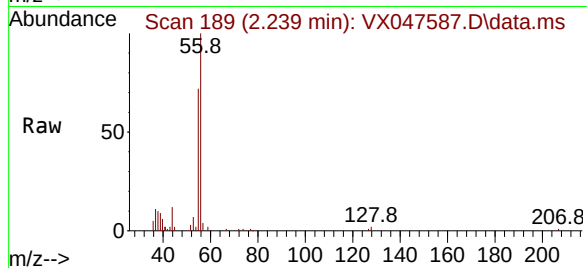
55 71.5 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#14

Allyl chloride

Concen: 20.379 ug/l

RT: 2.666 min Scan# 259

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

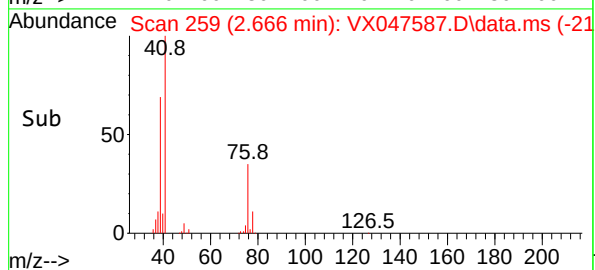
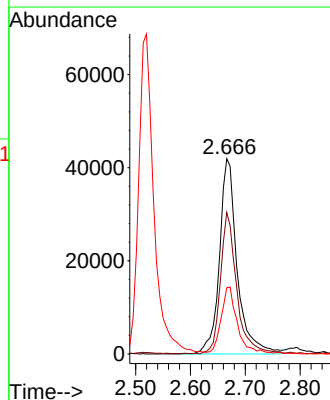
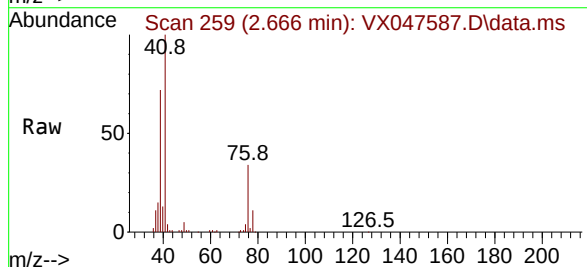
Tgt Ion: 41 Resp: 94710

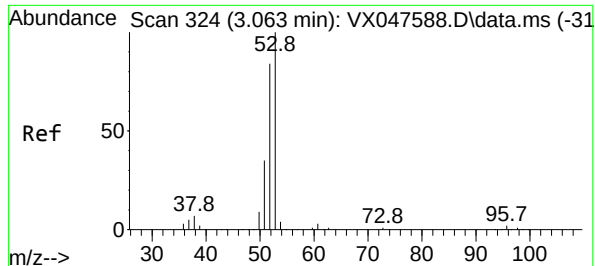
Ion Ratio Lower Upper

41 100

39 65.5 54.7 82.1

76 30.3 25.7 38.5





#15

Acrylonitrile

Concen: 104.554 ug/l

RT: 3.062 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

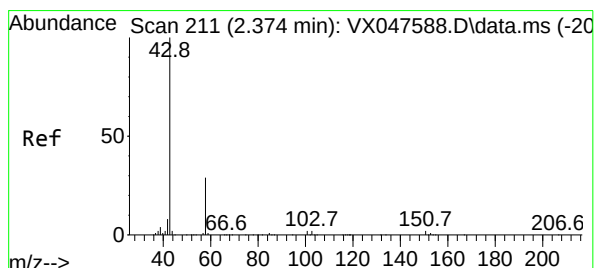
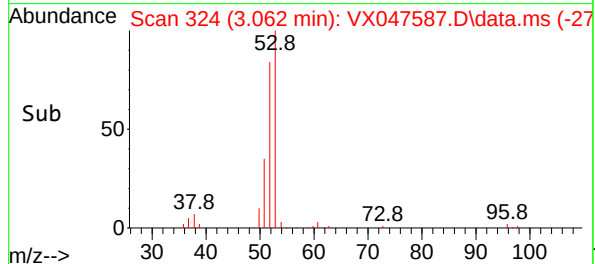
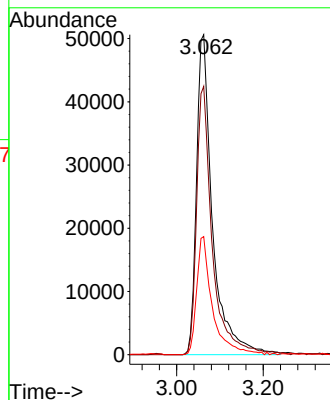
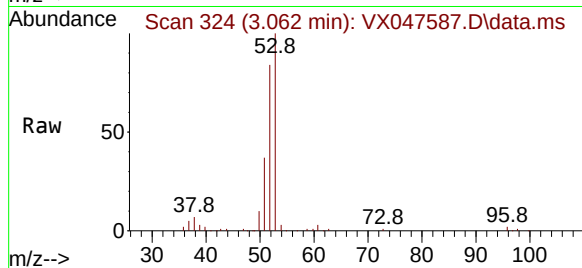
VSTDICC020

Tgt Ion:	53	Resp:	13014
Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.4	99.6
51	36.2	29.5	44.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#16

Acetone

Concen: 115.507 ug/l

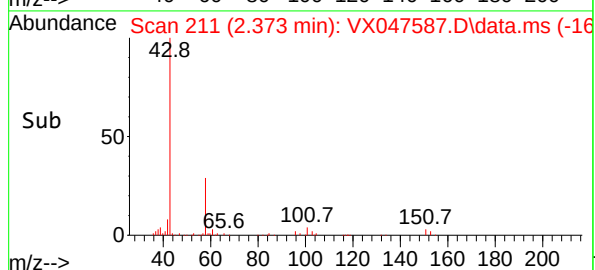
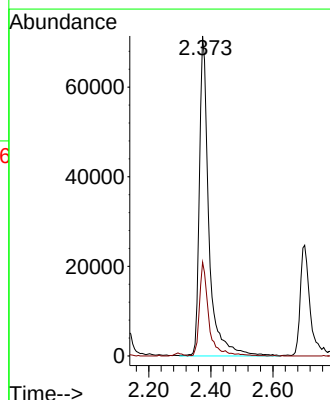
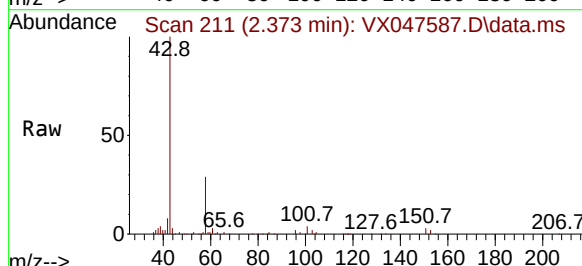
RT: 2.373 min Scan# 211

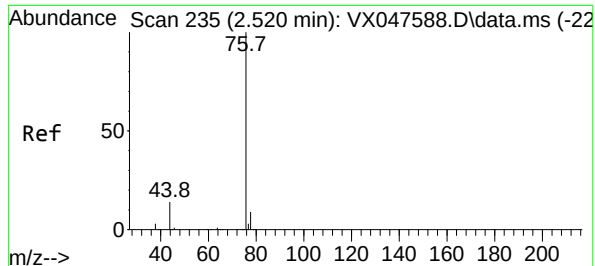
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:	43	Resp:	151538
Ion	Ratio	Lower	Upper
43	100		
58	29.3	23.4	35.0





#17

Carbon Disulfide

Concen: 21.620 ug/l

RT: 2.520 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 133290

Ion Ratio Lower Upper

76 100

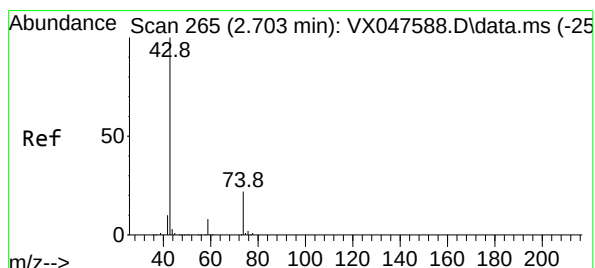
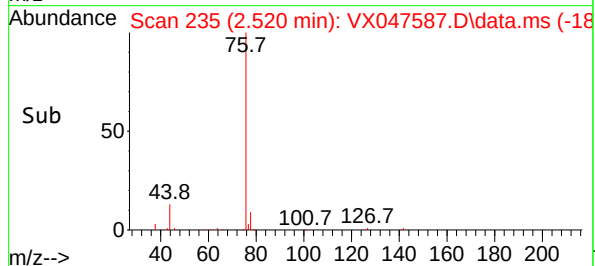
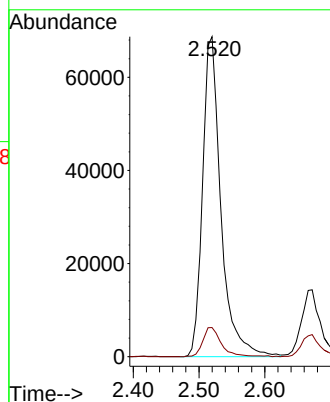
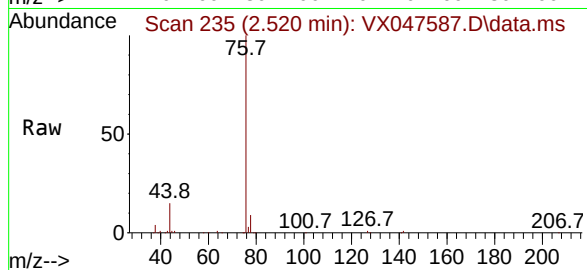
78 9.1 6.8 10.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#18

Methyl Acetate

Concen: 18.536 ug/l

RT: 2.703 min Scan# 265

Delta R.T. -0.000 min

Lab File: VX047587.D

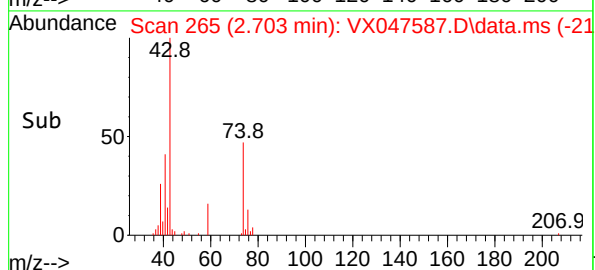
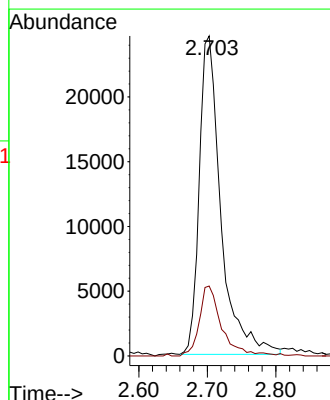
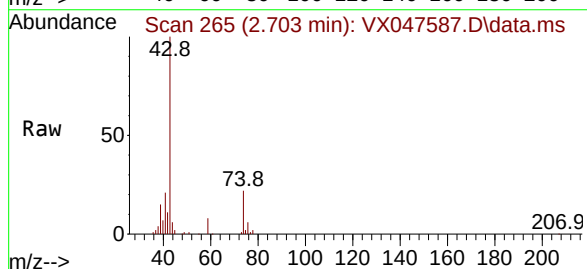
Acq: 16 Sep 2025 10:37

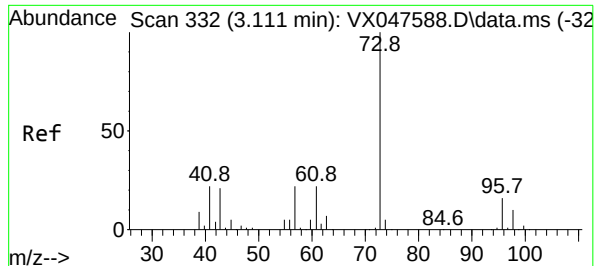
Tgt Ion: 43 Resp: 54120

Ion Ratio Lower Upper

43 100

74 22.7 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 20.486 ug/l

RT: 3.111 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 73 Resp: 168420

Ion Ratio Lower Upper

73 100

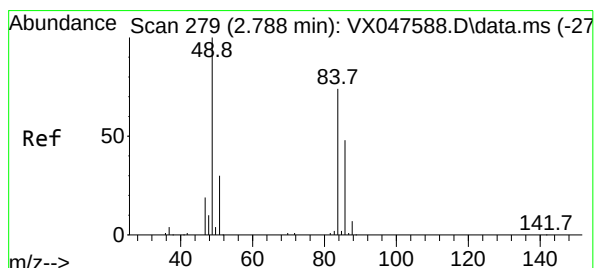
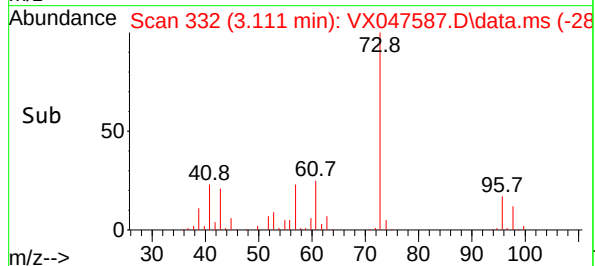
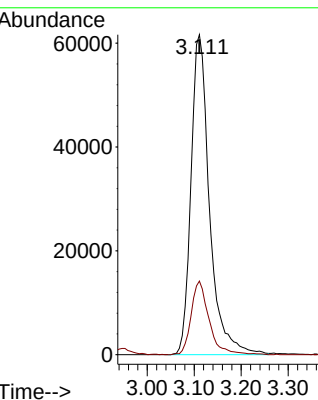
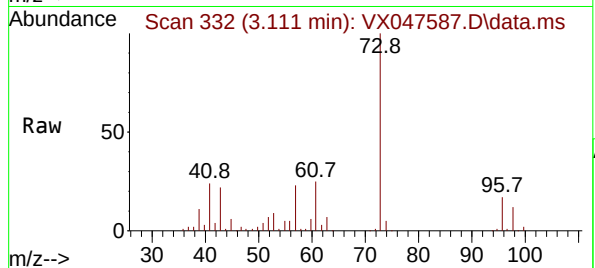
57 23.0 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#20

Methylene Chloride

Concen: 20.581 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion: 84 Resp: 57153

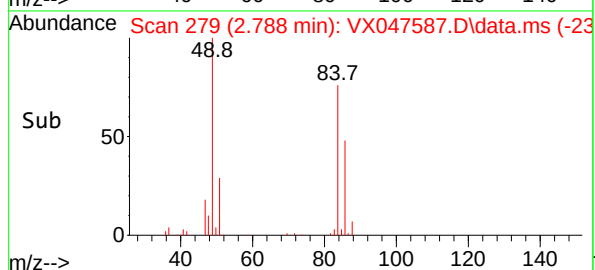
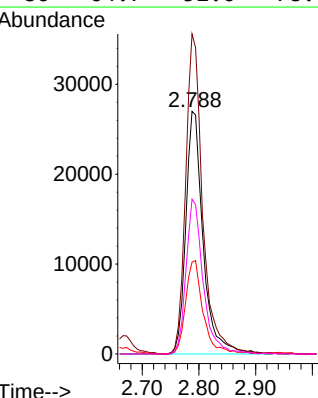
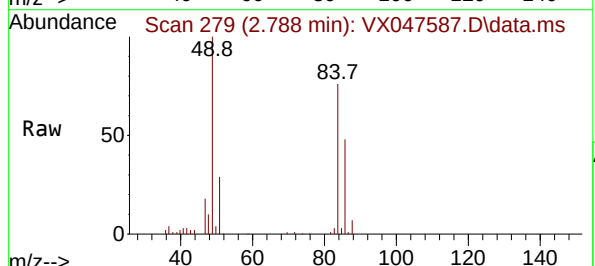
Ion Ratio Lower Upper

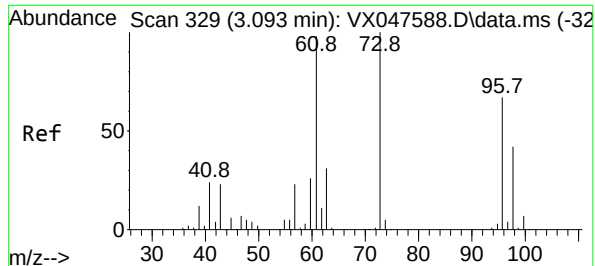
84 100

49 131.7 108.6 162.8

51 37.9 32.6 48.8

86 64.7 52.0 78.0





#21

trans-1,2-Dichloroethene

Concen: 20.791 ug/l

RT: 3.093 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 96 Resp: 5041

Ion Ratio Lower Upper

96 100

61 151.3 116.2 174.2

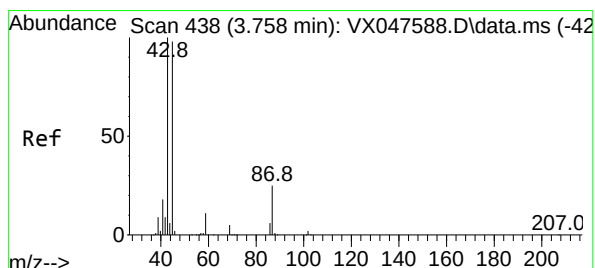
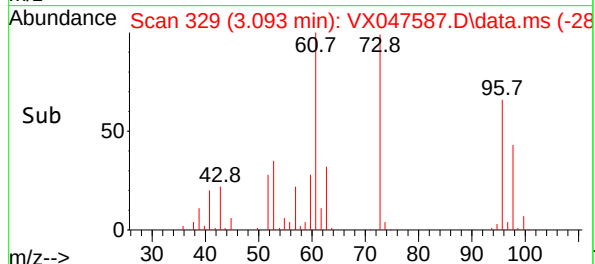
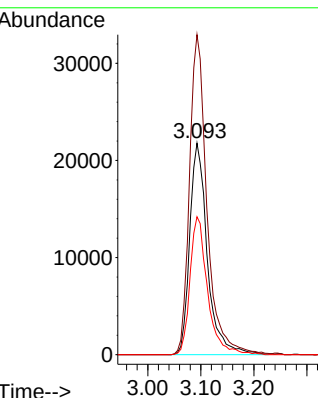
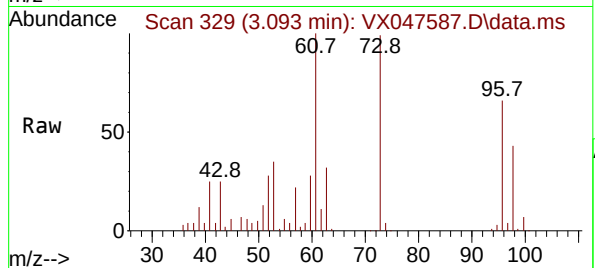
98 67.2 49.3 73.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#22

Diisopropyl ether

Concen: 20.940 ug/l

RT: 3.757 min Scan# 438

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion: 45 Resp: 188598

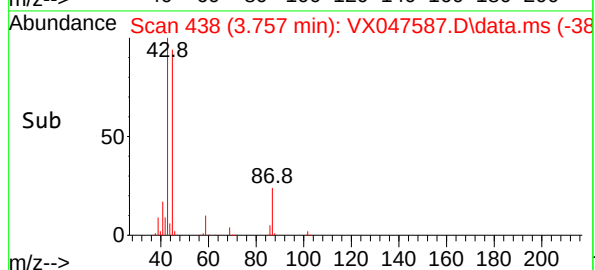
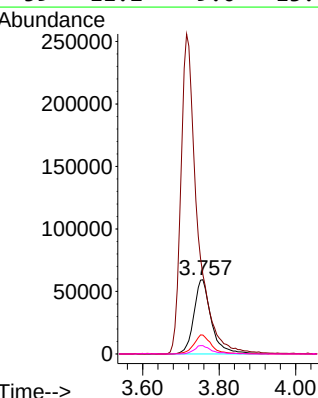
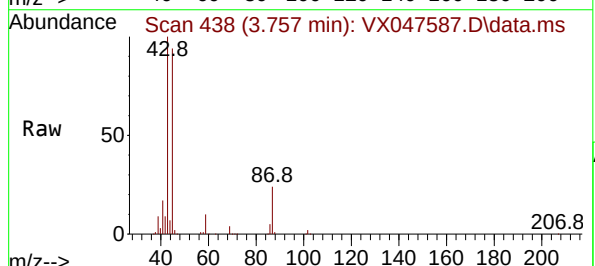
Ion Ratio Lower Upper

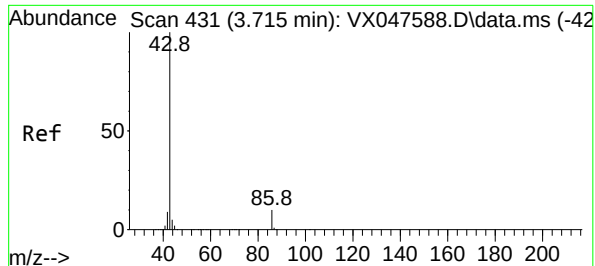
45 100

43 106.1 81.0 121.4

87 25.5 20.3 30.5

59 11.2 9.0 13.4





#23

Vinyl Acetate

Concen: 106.218 ug/l

RT: 3.715 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 76567

Ion Ratio Lower Upper

43 100

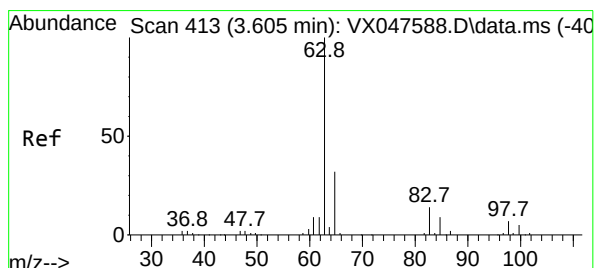
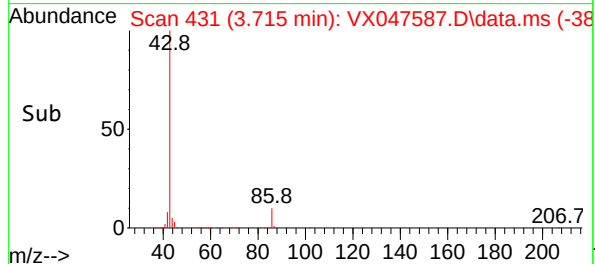
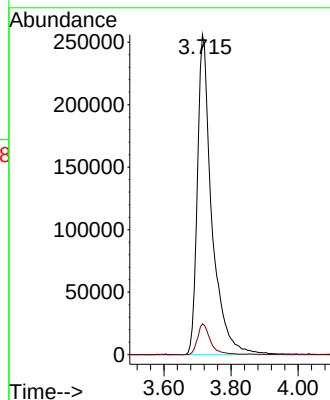
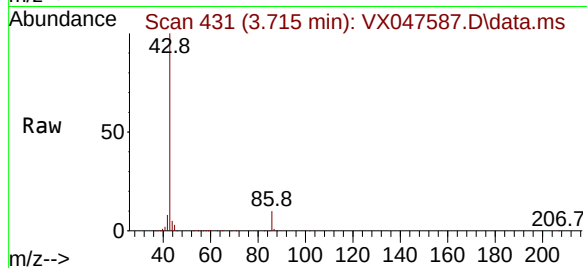
86 9.6 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#24

1,1-Dichloroethane

Concen: 20.578 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

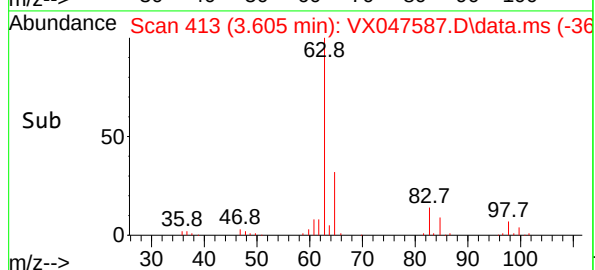
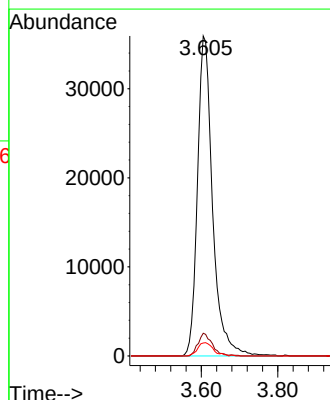
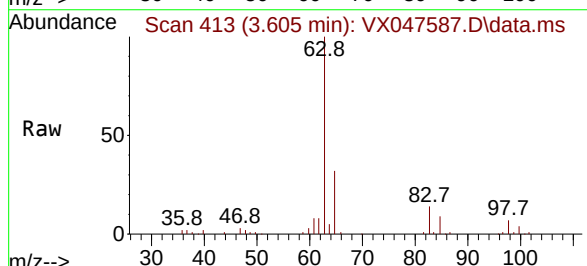
Tgt Ion: 63 Resp: 98509

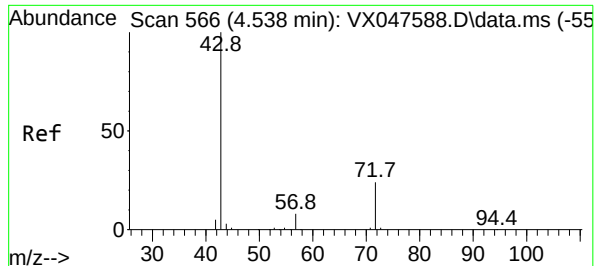
Ion Ratio Lower Upper

63 100

98 7.1 3.8 11.2

100 4.1 2.3 6.9





#25

2-Butanone

Concen: 109.679 ug/l

RT: 4.538 min Scan# 5

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 17948

Ion Ratio Lower Upper

43 100

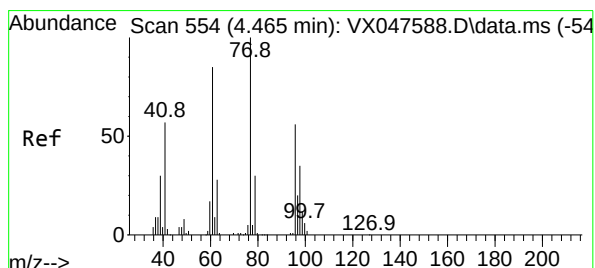
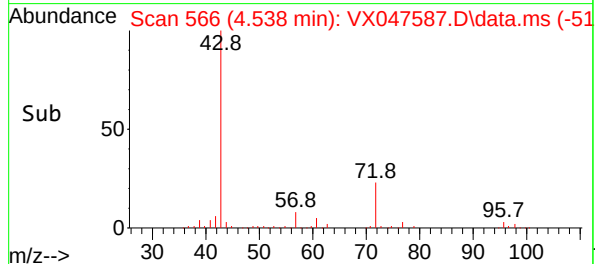
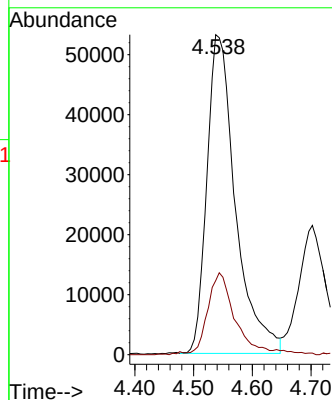
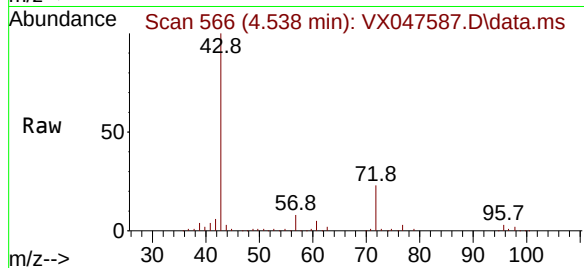
72 22.3 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#26

2,2-Dichloropropane

Concen: 20.459 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX047587.D

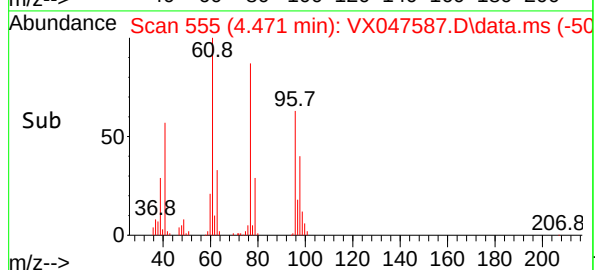
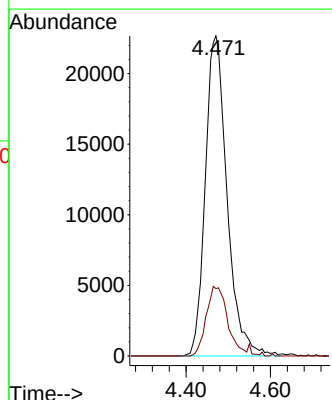
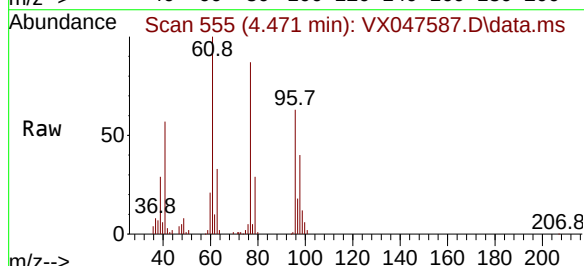
Acq: 16 Sep 2025 10:37

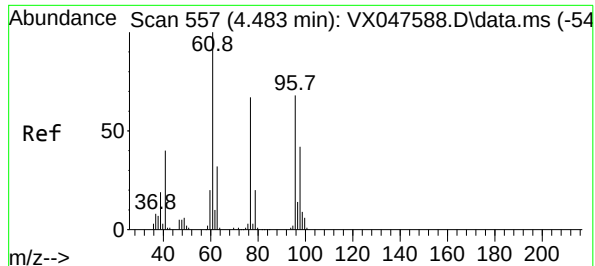
Tgt Ion: 77 Resp: 81413

Ion Ratio Lower Upper

77 100

97 21.2 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 20.497 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

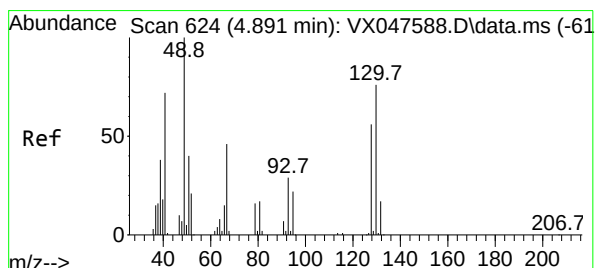
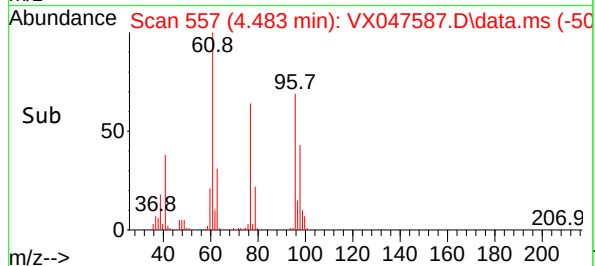
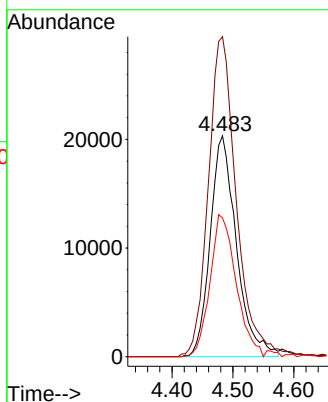
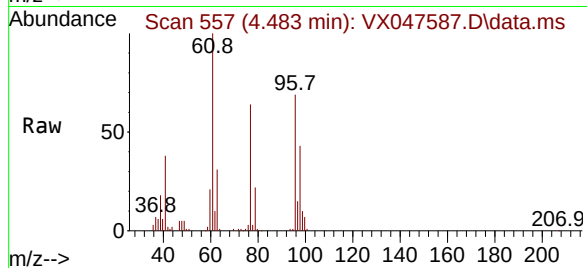
VSTDICC020

Tgt Ion:	96	Resp:	6086
Ion	Ratio	Lower	Upper
96	100		
61	154.8	0.0	303.2
98	63.7	0.0	127.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#28

Bromochloromethane

Concen: 16.309 ug/l

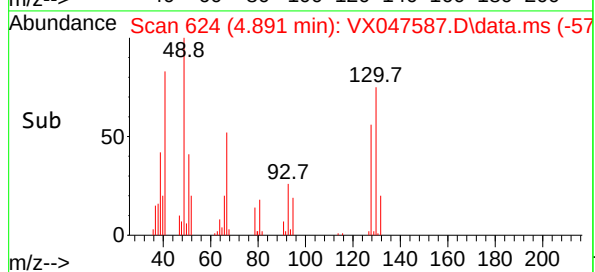
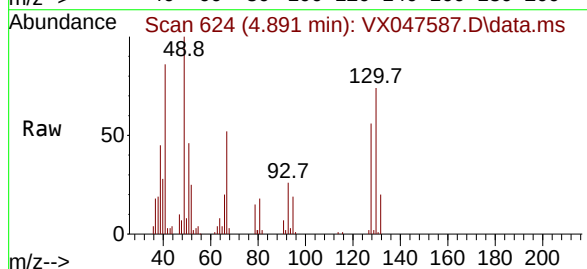
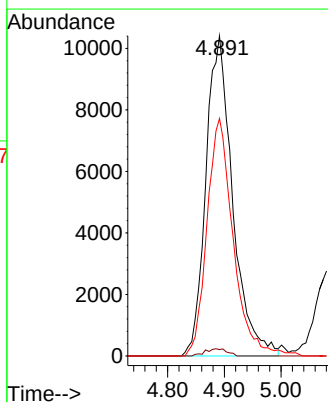
RT: 4.891 min Scan# 624

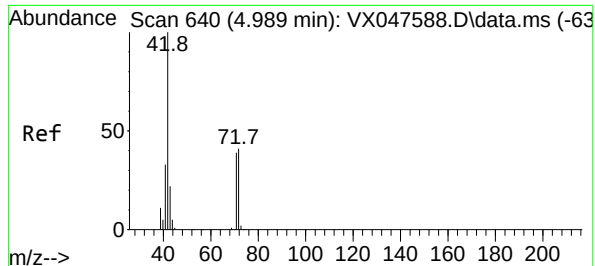
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:	49	Resp:	34085
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.2
130	72.7	57.8	86.8





#29

Tetrahydrofuran

Concen: 104.560 ug/l

RT: 4.995 min Scan# 641

Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

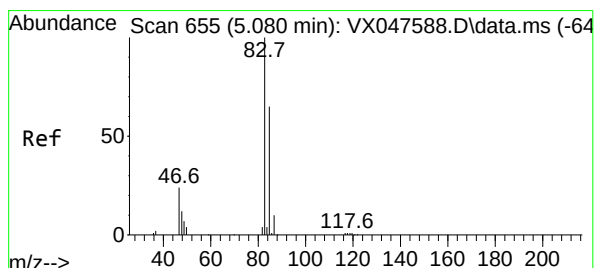
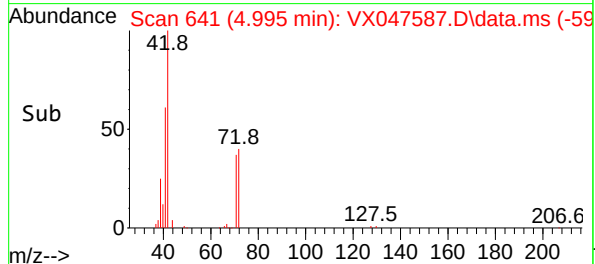
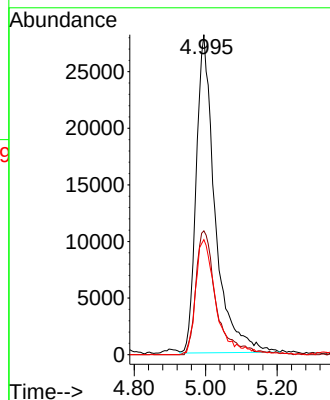
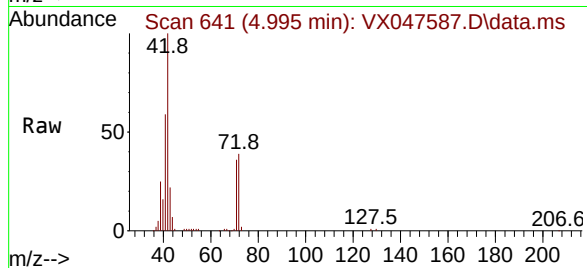
VSTDICC020

Tgt Ion:	42	Resp:	10293
Ion Ratio	Lower	Upper	
42	100		
72	41.5	34.2	51.2
71	37.8	31.9	47.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

Chloroform

Concen: 21.413 ug/l

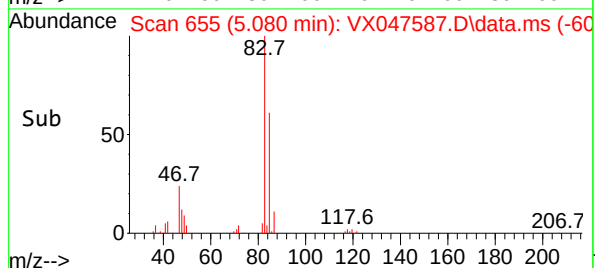
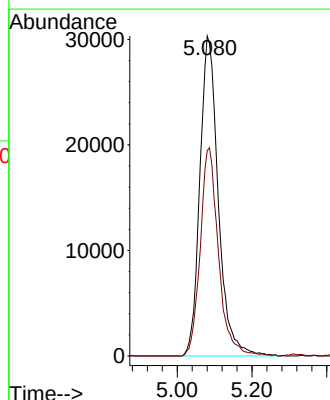
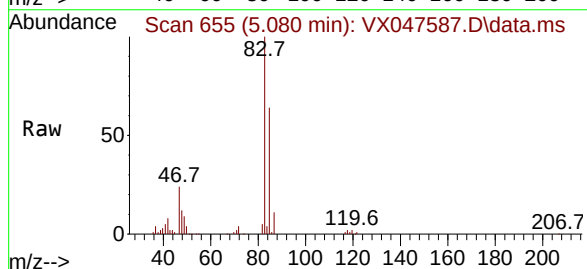
RT: 5.080 min Scan# 655

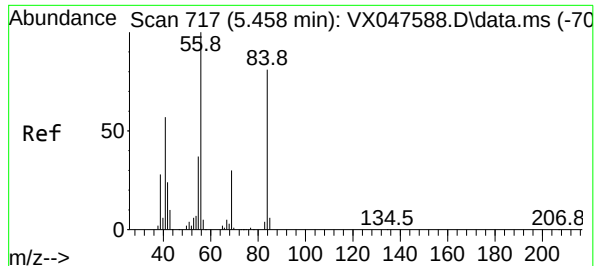
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:	83	Resp:	103586
Ion Ratio	Lower	Upper	
83	100		
85	64.2	51.8	77.6





#31

Cyclohexane

Concen: 20.759 ug/l

RT: 5.464 min Scan# 717

Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 82770

Ion Ratio Lower Upper

56 100

69 27.9 23.8 35.8

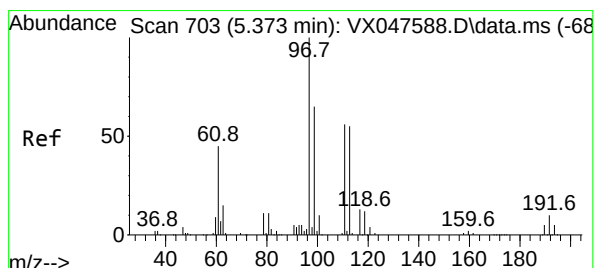
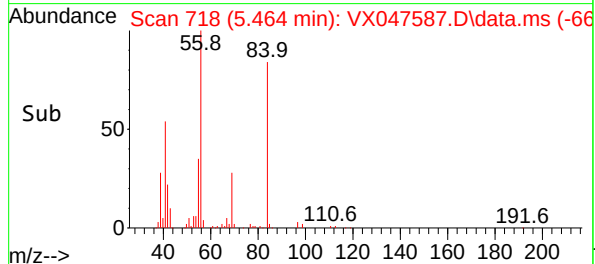
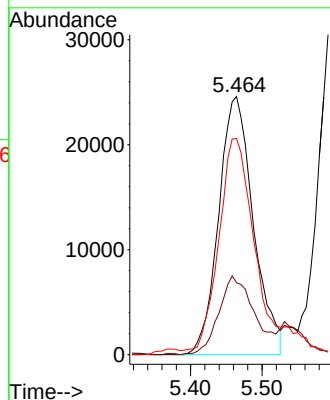
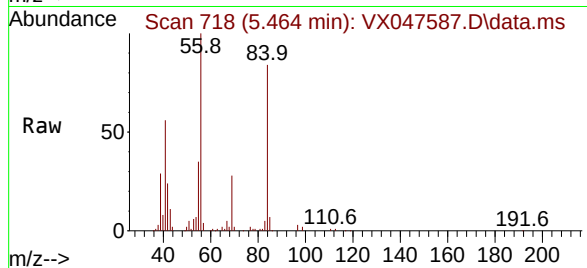
84 82.2 64.6 97.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#32

1,1,1-Trichloroethane

Concen: 21.081 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

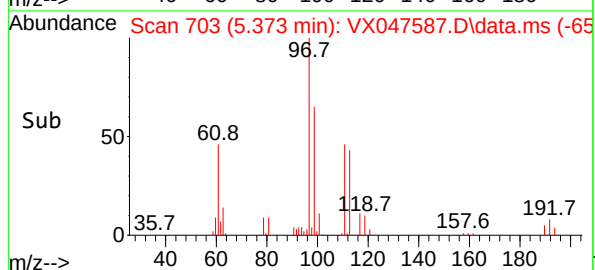
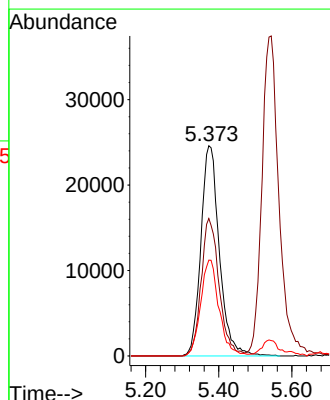
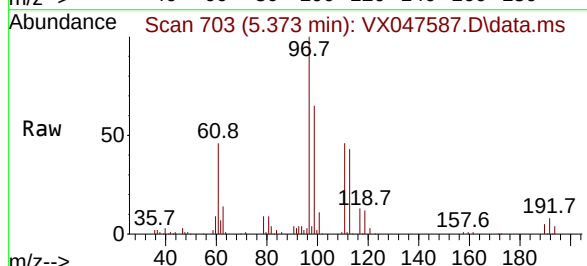
Tgt Ion: 97 Resp: 86500

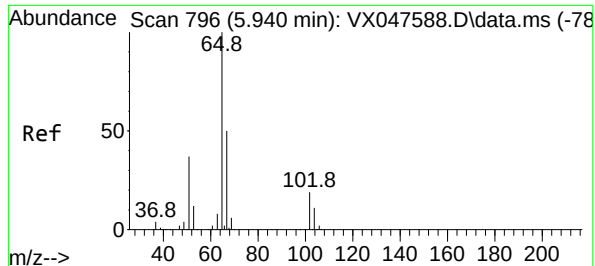
Ion Ratio Lower Upper

97 100

99 63.5 50.6 76.0

61 45.5 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 16.264 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 65 Resp: 4907

Ion Ratio Lower Upper

65 100

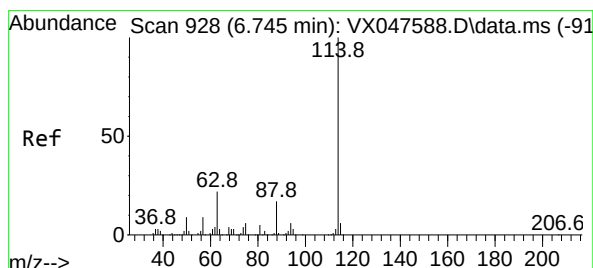
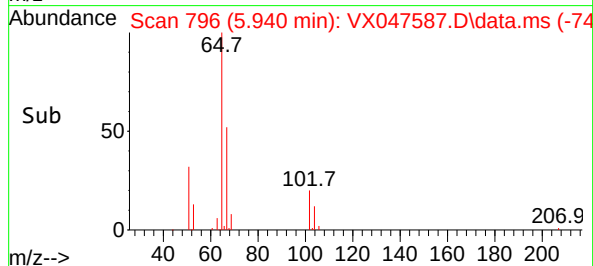
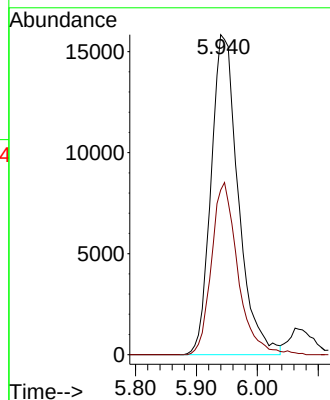
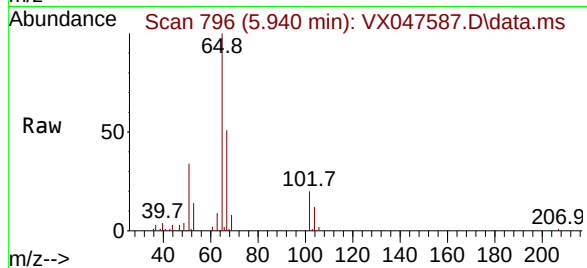
67 52.2 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

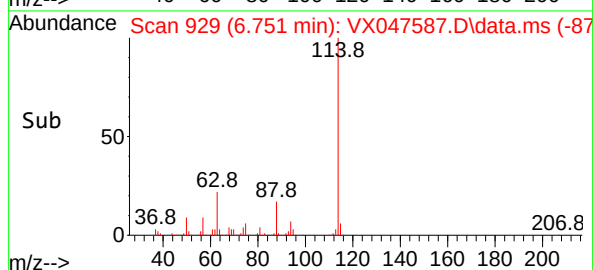
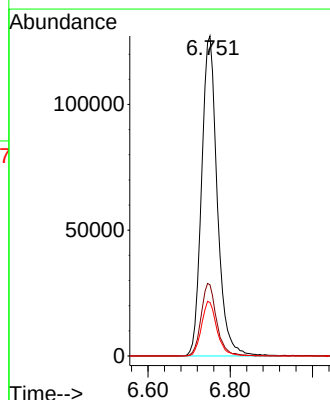
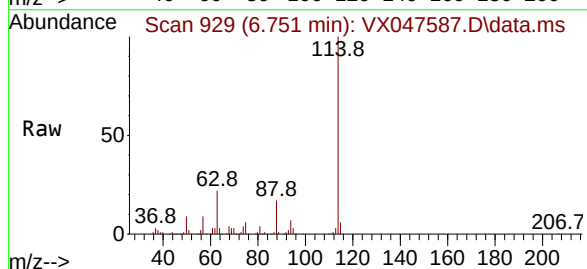
Tgt Ion:114 Resp: 336287

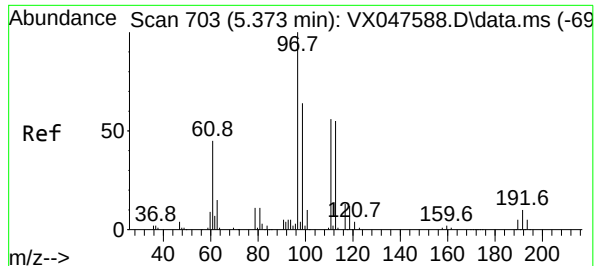
Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.0

88 16.8 0.0 34.2





#35

Dibromofluoromethane

Concen: 15.868 ug/l

RT: 5.379 min Scan# 703

Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

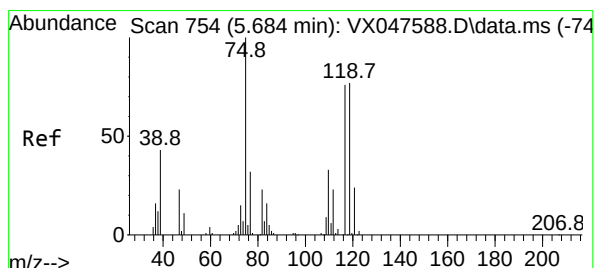
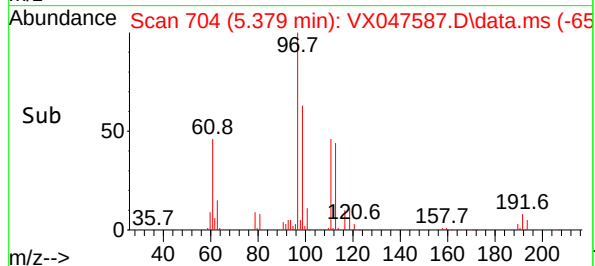
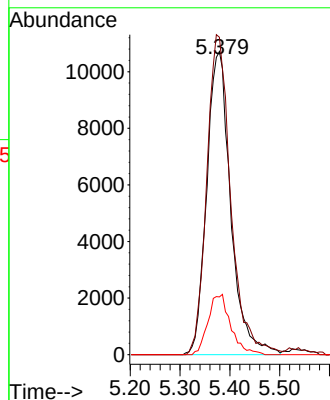
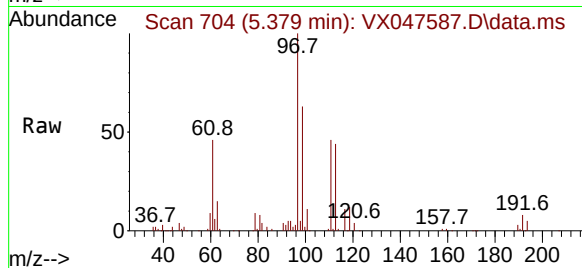
VSTDIC020

Tgt Ion:	113	Resp:	3578
Ion	Ratio	Lower	Upper
113	100		
111	105.7	80.9	121.3
192	18.8	14.2	21.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#36

1,1-Dichloropropene

Concen: 20.754 ug/l

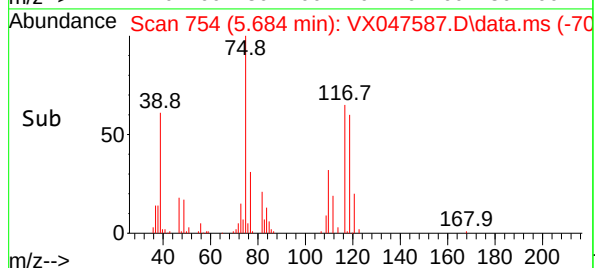
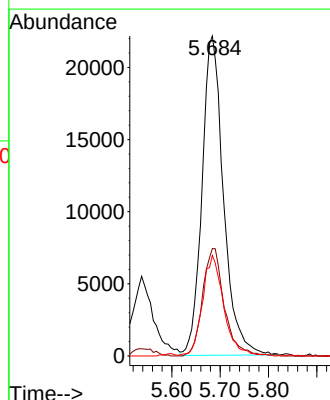
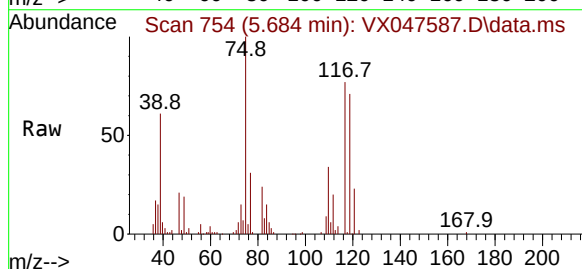
RT: 5.684 min Scan# 754

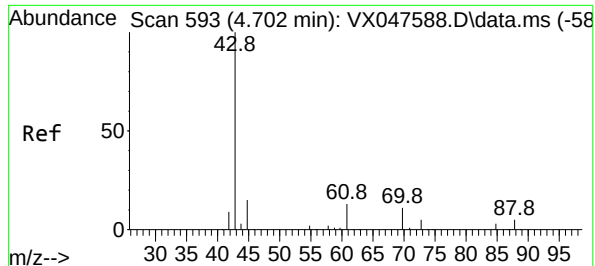
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:	75	Resp:	68395
Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.7	50.1
77	31.2	24.3	36.5





#37

Ethyl Acetate

Concen: 21.113 ug/l

RT: 4.702 min Scan# 593

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

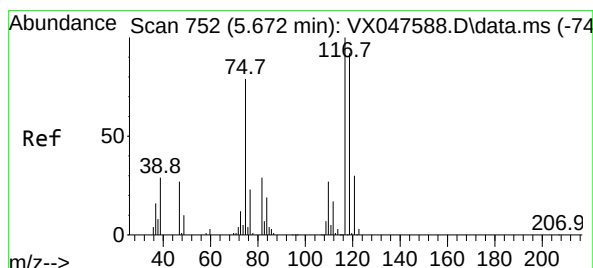
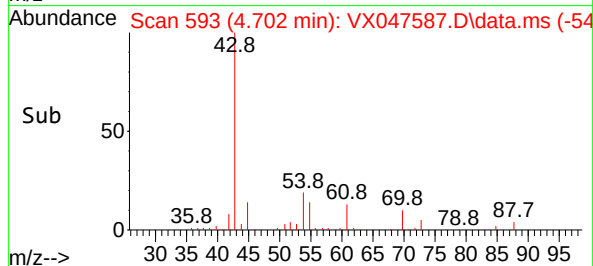
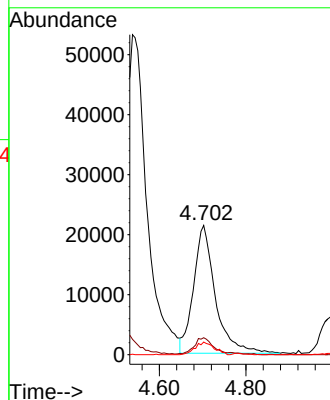
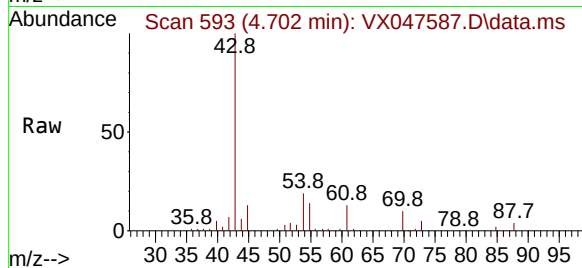
VSTDICC020

Tgt Ion:	43	Resp:	7449
Ion	Ratio	Lower	Upper
43	100		
61	10.8	9.8	14.8
70	8.5	7.9	11.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#38

Carbon Tetrachloride

Concen: 20.844 ug/l

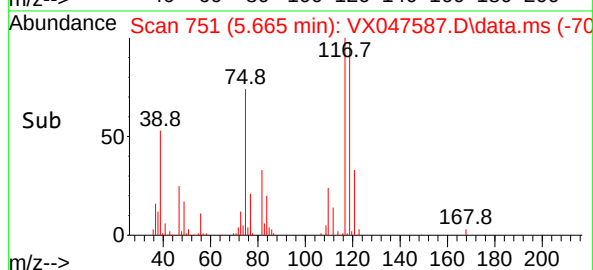
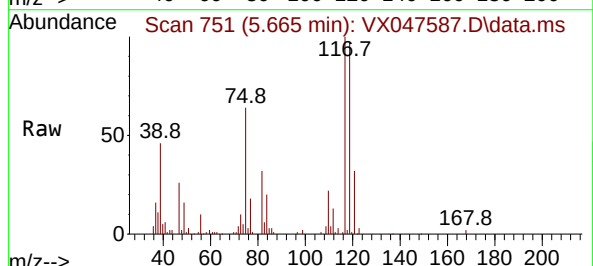
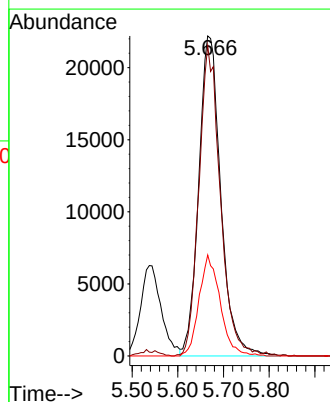
RT: 5.665 min Scan# 751

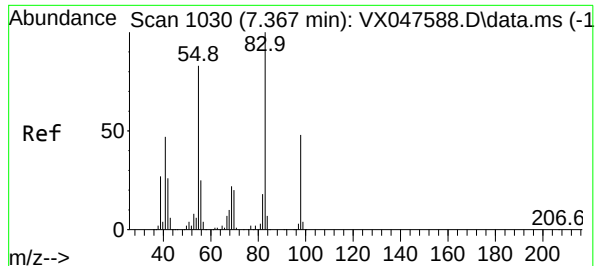
Delta R.T. -0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:	117	Resp:	74636
Ion	Ratio	Lower	Upper
117	100		
119	96.9	73.4	110.2
121	31.6	23.8	35.6





#39

Methylcyclohexane

Concen: 21.251 ug/l

RT: 7.366 min Scan# 1030

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

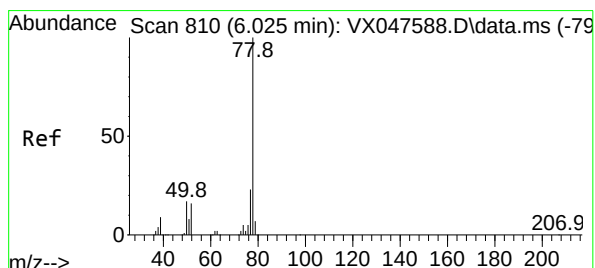
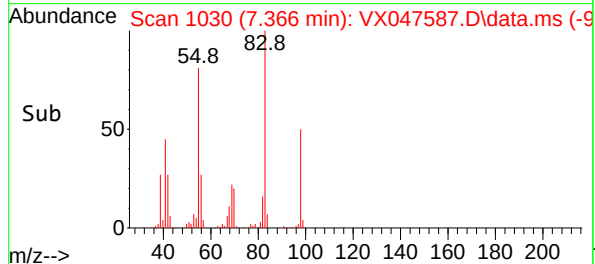
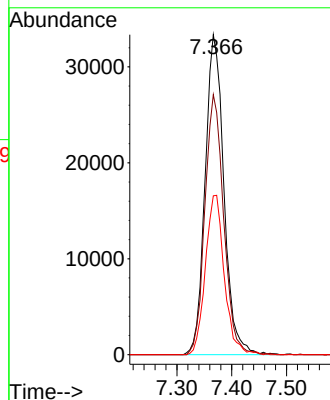
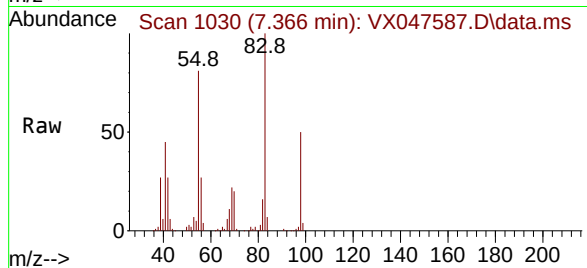
VSTDICC020

Tgt Ion:	83	Resp:	7949
Ion	Ratio	Lower	Upper
83	100		
55	81.2	66.4	99.6
98	49.6	38.1	57.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#40

Benzene

Concen: 21.051 ug/l

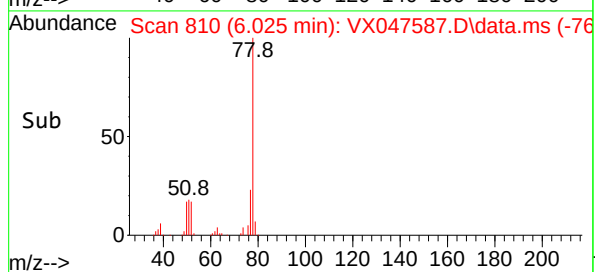
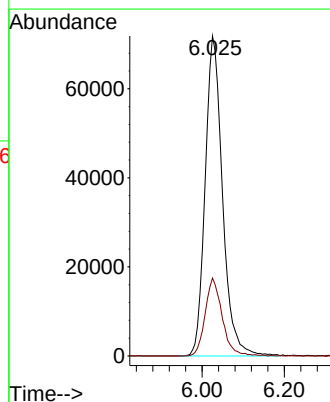
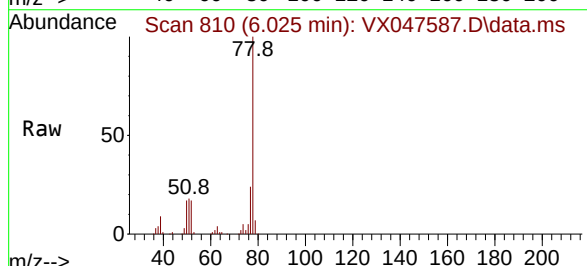
RT: 6.025 min Scan# 810

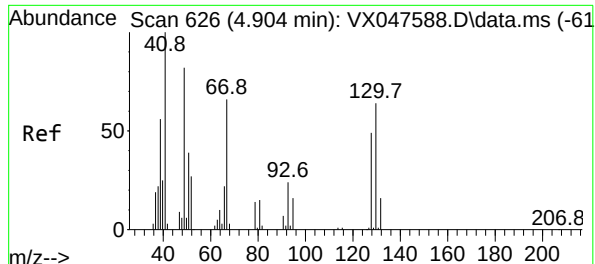
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:	78	Resp:	210711
Ion	Ratio	Lower	Upper
78	100		
77	24.4	18.8	28.2





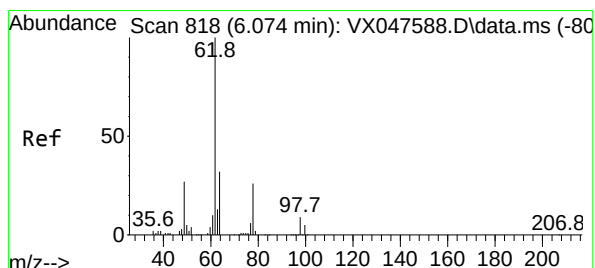
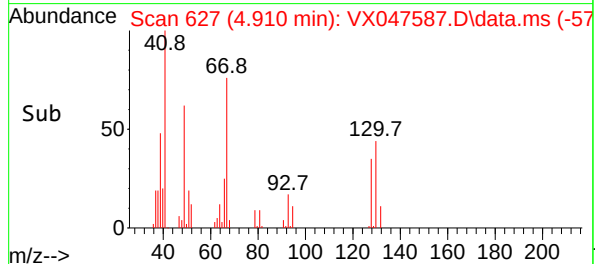
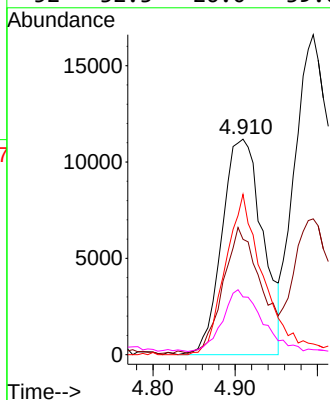
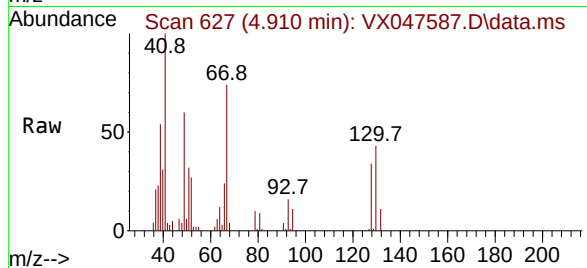
#41
Methacrylonitrile
Concen: 21.148 ug/l
RT: 4.910 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:	41	Resp:	3852
Ion	Ratio	Lower	Upper
41	100		
39	53.8	43.3	64.9
67	72.5	58.6	87.8
52	32.3	26.0	39.0

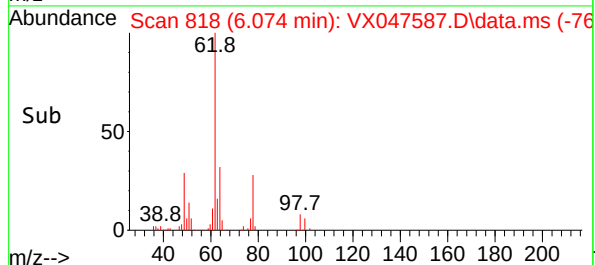
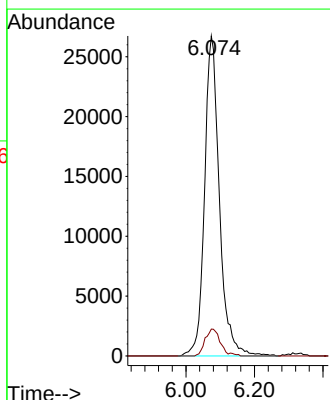
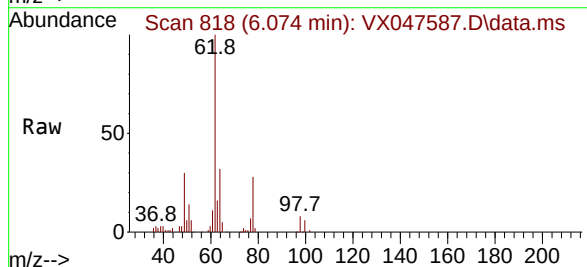
Manual Integrations
APPROVED

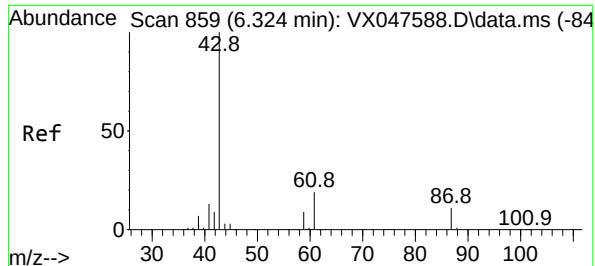
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#42
1,2-Dichloroethane
Concen: 21.175 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:	62	Resp:	80646
Ion	Ratio	Lower	Upper
62	100		
98	8.7	0.0	17.0





#43

Isopropyl Acetate

Concen: 20.670 ug/l

RT: 6.324 min Scan# 859

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 11962

Ion Ratio Lower Upper

43 100

61 18.9 15.2 22.8

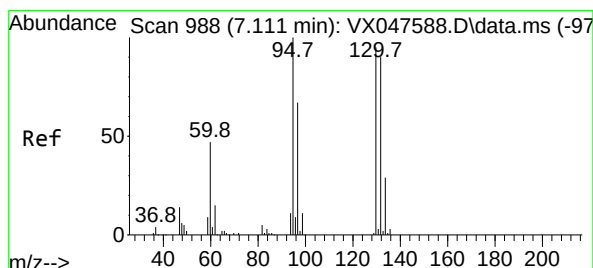
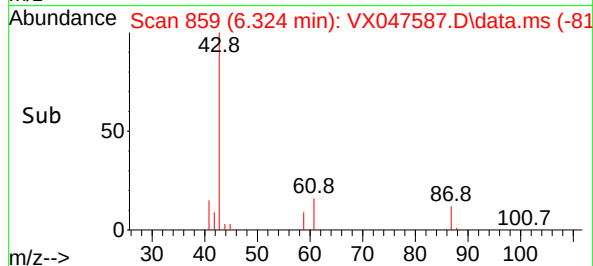
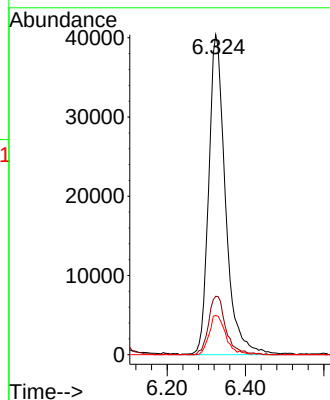
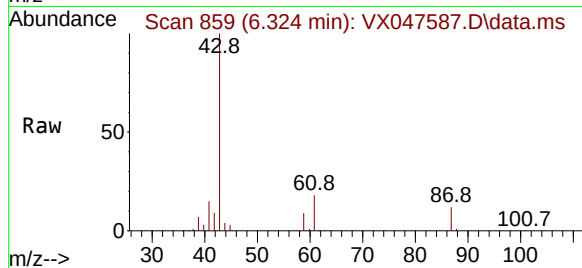
87 12.1 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#44

Trichloroethene

Concen: 21.228 ug/l

RT: 7.110 min Scan# 988

Delta R.T. -0.000 min

Lab File: VX047587.D

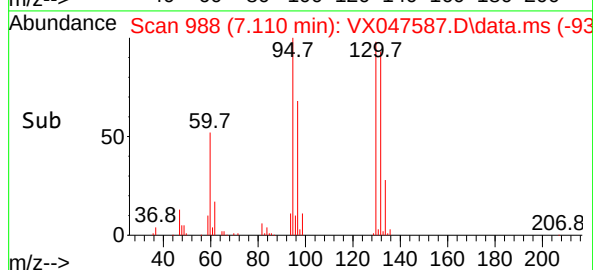
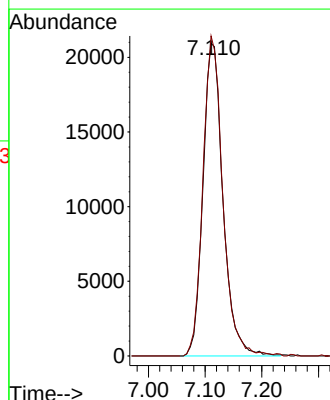
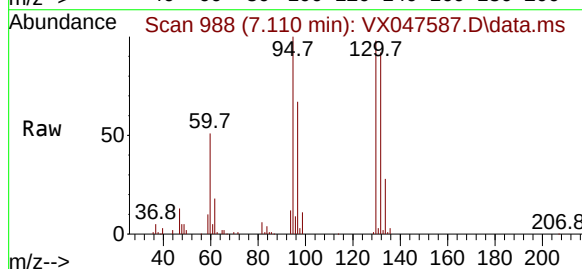
Acq: 16 Sep 2025 10:37

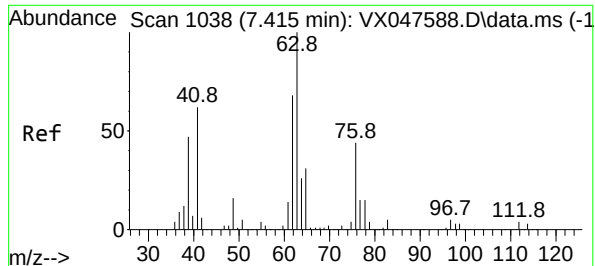
Tgt Ion:130 Resp: 51369

Ion Ratio Lower Upper

130 100

95 102.3 0.0 210.8





#45

1,2-Dichloropropane

Concen: 20.697 ug/l

RT: 7.415 min Scan# 1038

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 5304

Ion Ratio Lower Upper

63 100

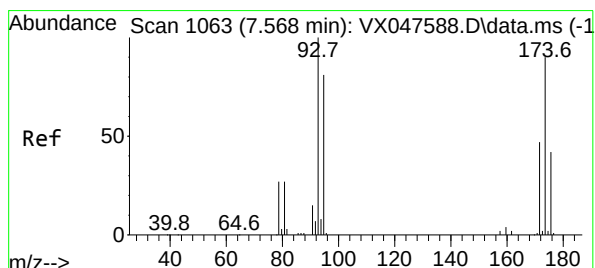
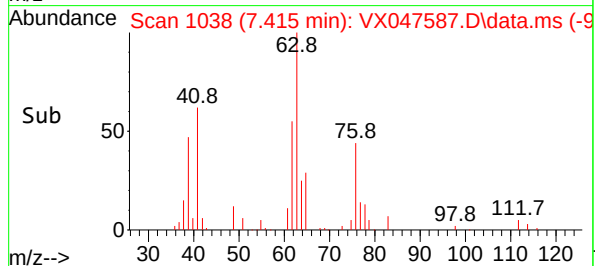
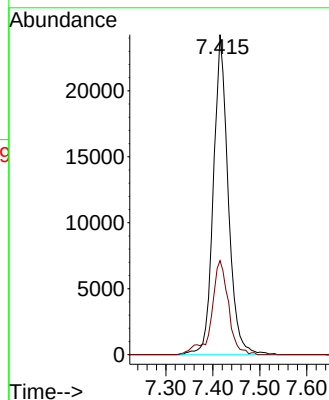
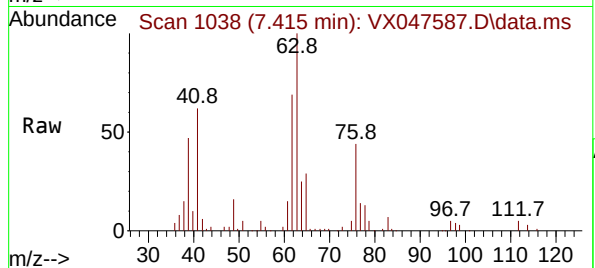
65 29.4 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#46

Dibromomethane

Concen: 20.862 ug/l

RT: 7.568 min Scan# 1063

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

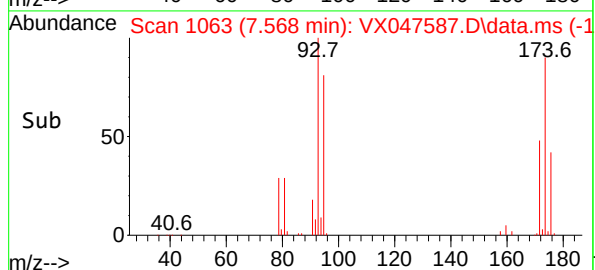
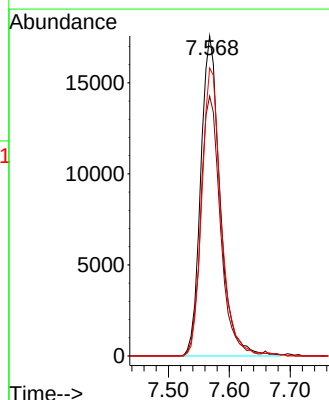
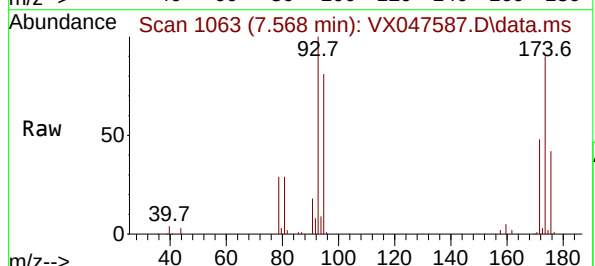
Tgt Ion: 93 Resp: 38910

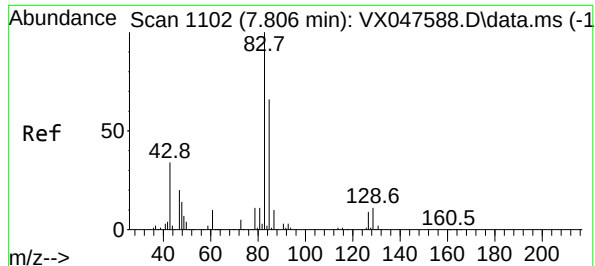
Ion Ratio Lower Upper

93 100

95 82.0 65.0 97.6

174 89.2 71.6 107.4





#47

Bromodichloromethane

Concen: 21.002 ug/l

RT: 7.805 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

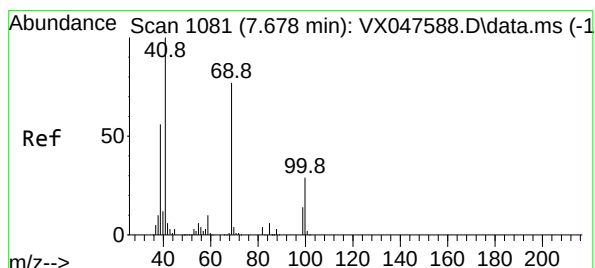
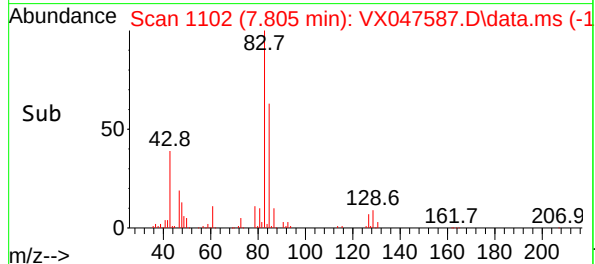
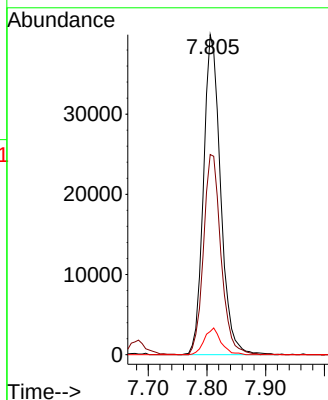
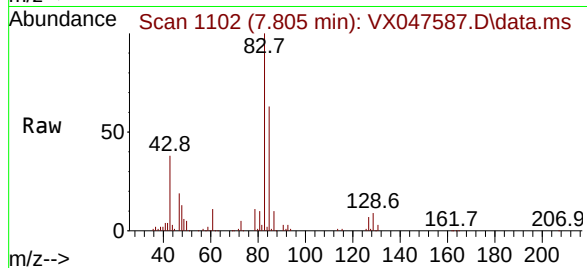
VSTDIC020

Tgt Ion:	83	Resp:	8083
Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.5	78.7
127	8.2	6.9	10.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#48

Methyl methacrylate

Concen: 20.877 ug/l

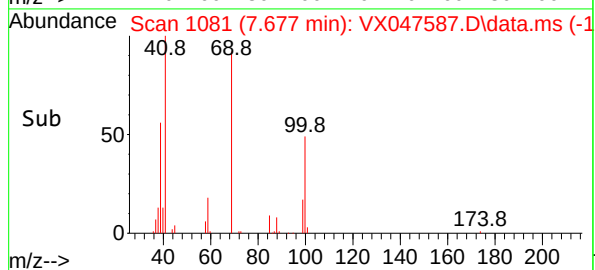
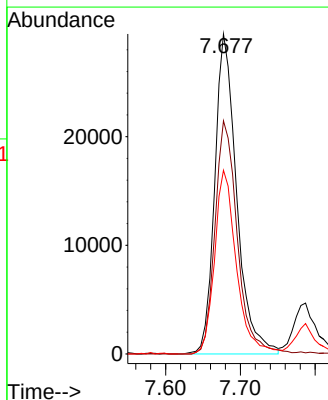
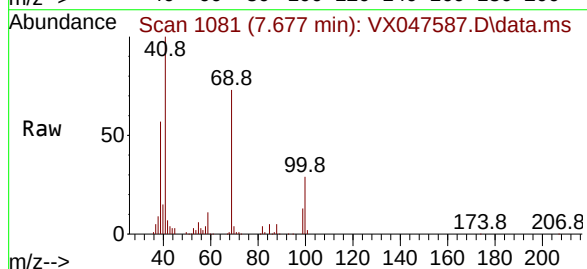
RT: 7.677 min Scan# 1081

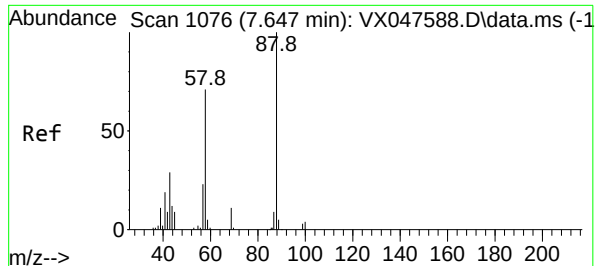
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:	41	Resp:	60182
Ion	Ratio	Lower	Upper
41	100		
69	74.2	61.4	92.2
39	57.2	45.8	68.6





#49

1,4-Dioxane

Concen: 413.530 ug/l

RT: 7.647 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

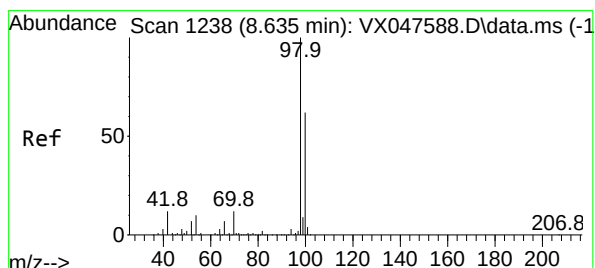
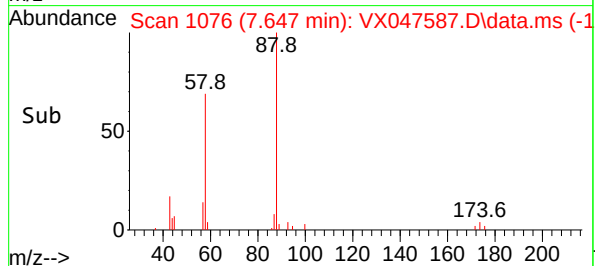
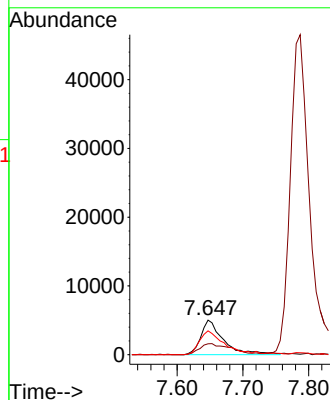
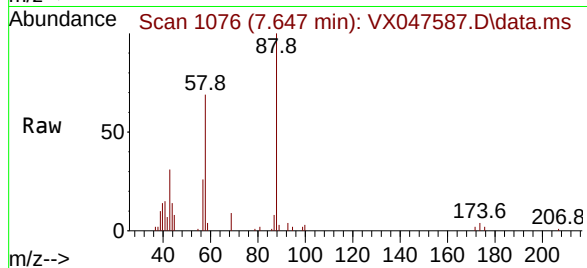
VSTDIC020

Tgt Ion:	88	Resp:	1204
Ion	Ratio	Lower	Upper
88	100		
43	44.7	30.2	45.2
58	75.8	59.5	89.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#50

Toluene-d8

Concen: 16.258 ug/l

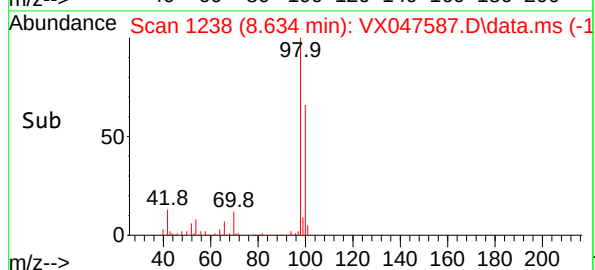
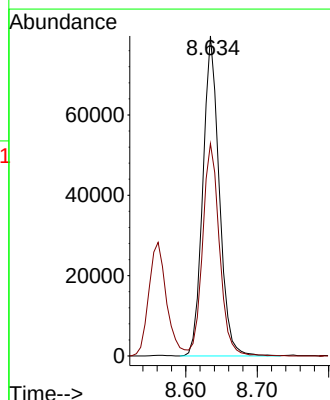
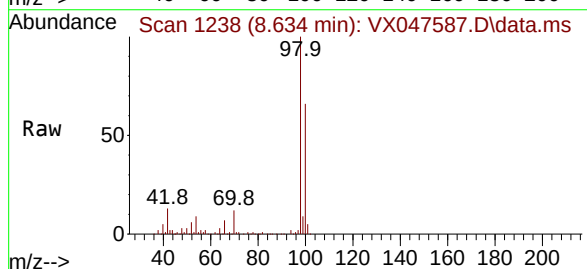
RT: 8.634 min Scan# 1238

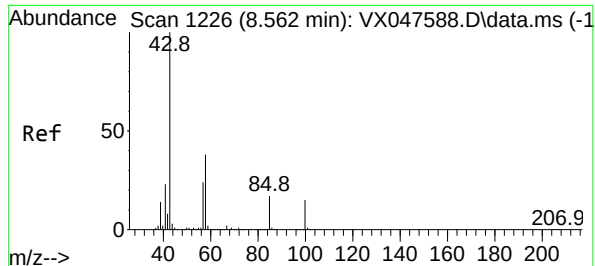
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:	98	Resp:	126875
Ion	Ratio	Lower	Upper
98	100		
100	67.9	53.0	79.4





#51

4-Methyl-2-Pentanone

Concen: 105.456 ug/l

RT: 8.561 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 338370

Ion Ratio Lower Upper

43 100

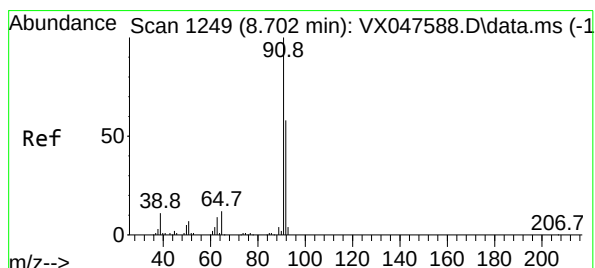
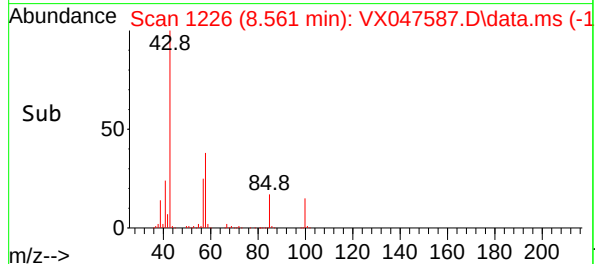
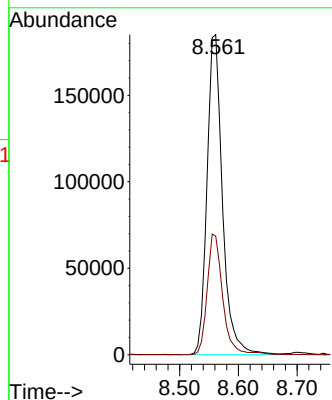
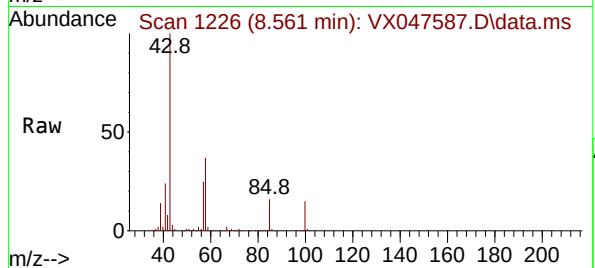
58 37.8 30.3 45.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#52

Toluene

Concen: 20.950 ug/l

RT: 8.708 min Scan# 1250

Delta R.T. 0.006 min

Lab File: VX047587.D

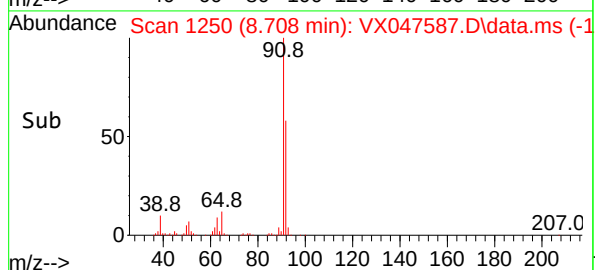
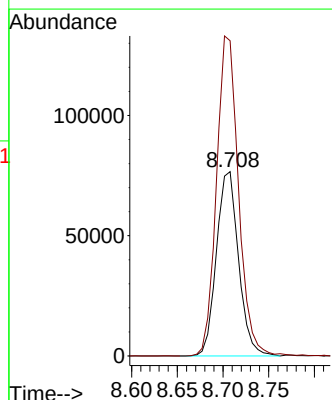
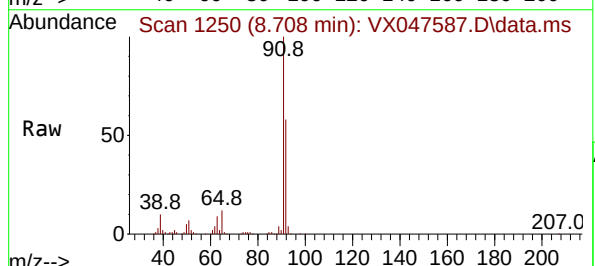
Acq: 16 Sep 2025 10:37

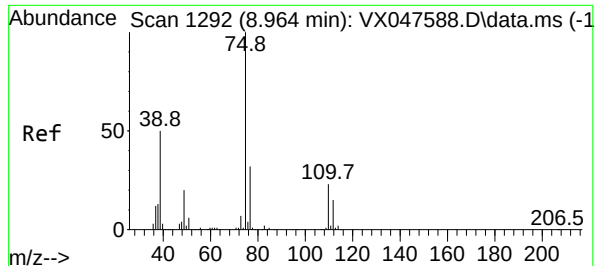
Tgt Ion: 92 Resp: 129193

Ion Ratio Lower Upper

92 100

91 173.2 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 20.625 ug/l

RT: 8.964 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 75 Resp: 80972

Ion Ratio Lower Upper

75 100

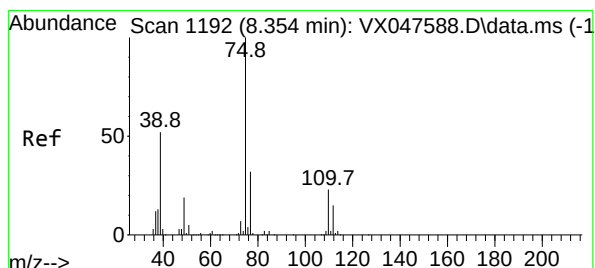
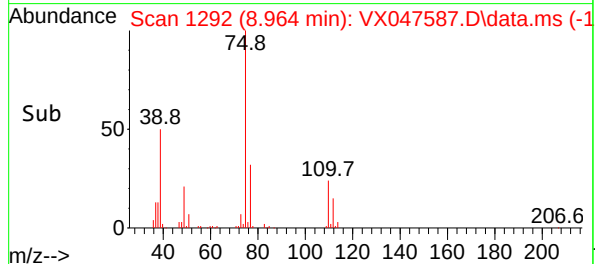
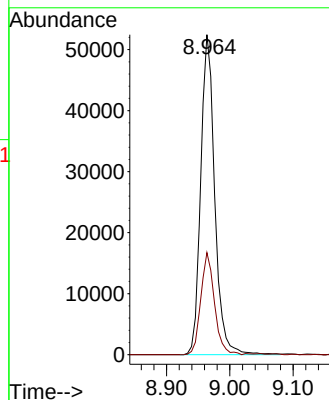
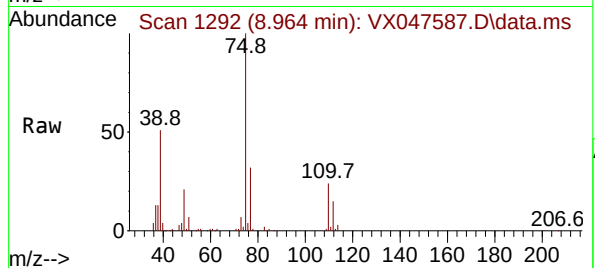
77 31.9 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#54

cis-1,3-Dichloropropene

Concen: 20.650 ug/l

RT: 8.354 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

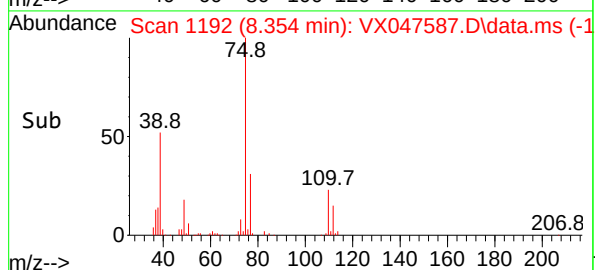
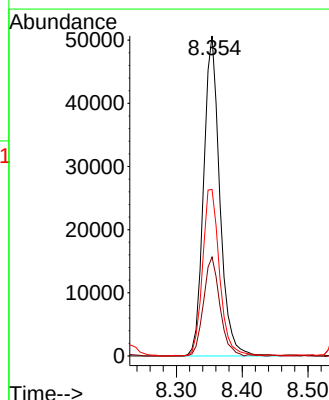
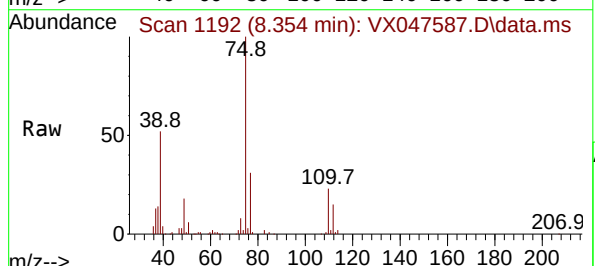
Tgt Ion: 75 Resp: 86648

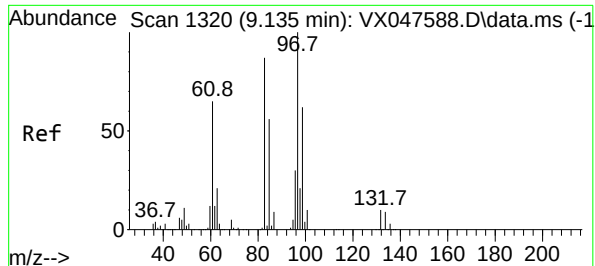
Ion Ratio Lower Upper

75 100

77 30.9 25.8 38.6

39 52.0 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 20.967 ug/l

RT: 9.140 min Scan# 1321

Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

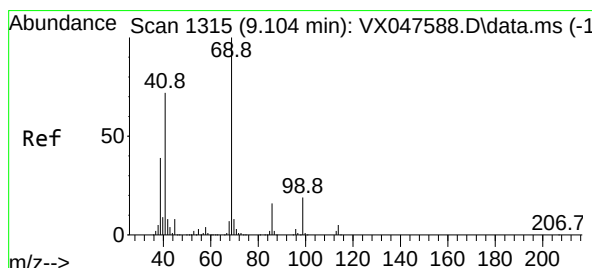
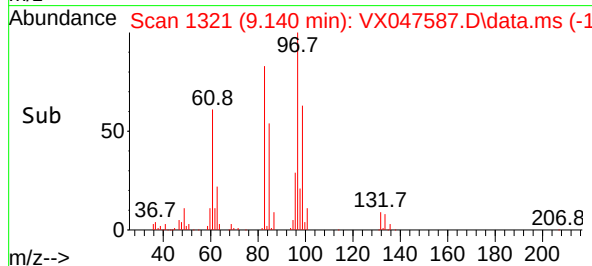
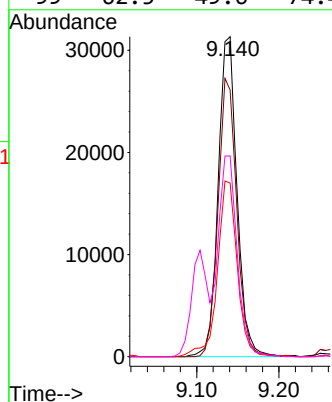
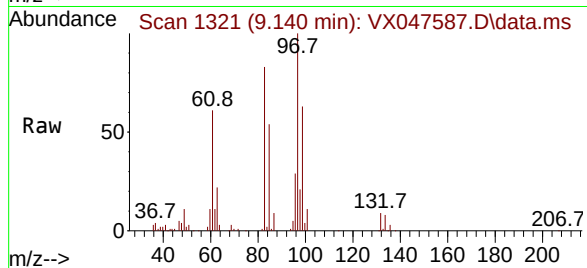
VSTDICC020

Tgt Ion	Ratio	Lower	Upper
97	100		
83	83.3	69.6	104.4
85	55.2	45.0	67.6
99	62.5	49.6	74.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#56

Ethyl methacrylate

Concen: 21.158 ug/l

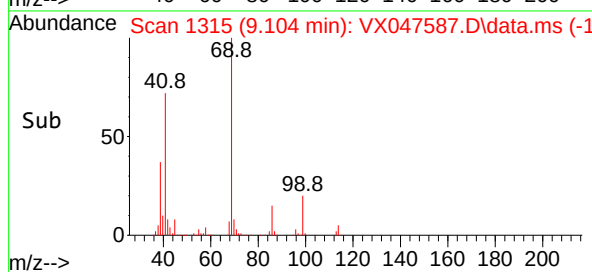
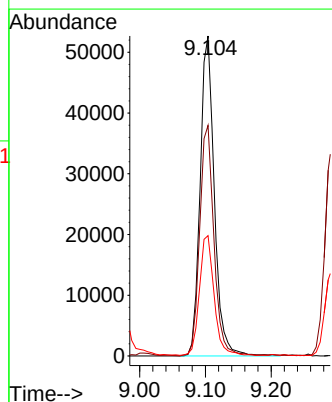
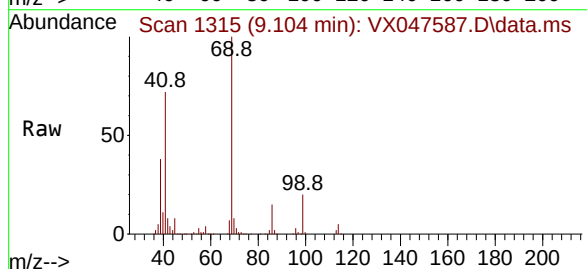
RT: 9.104 min Scan# 1315

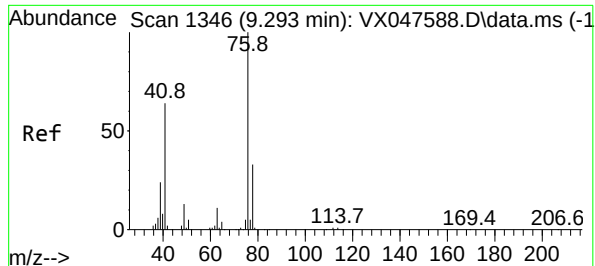
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion	Ratio	Lower	Upper
69	100		
41	72.6	58.6	87.8
39	38.6	31.5	47.3





#57

1,3-Dichloropropane

Concen: 20.934 ug/l

RT: 9.293 min Scan# 11346

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 8551

Ion Ratio Lower Upper

76 100

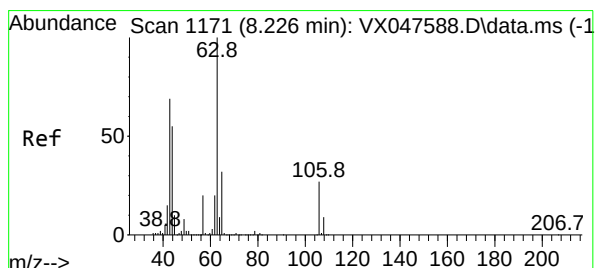
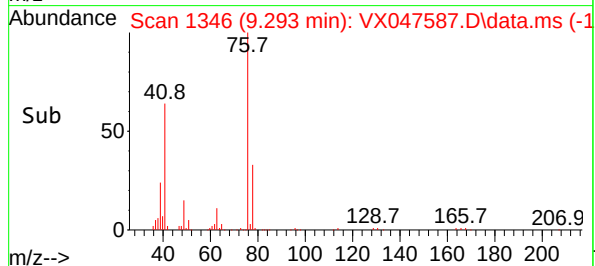
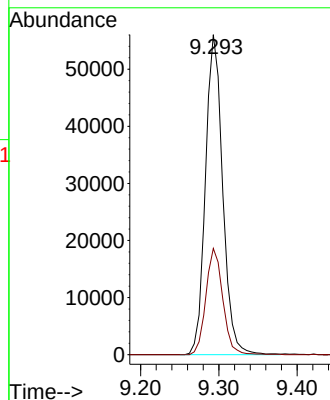
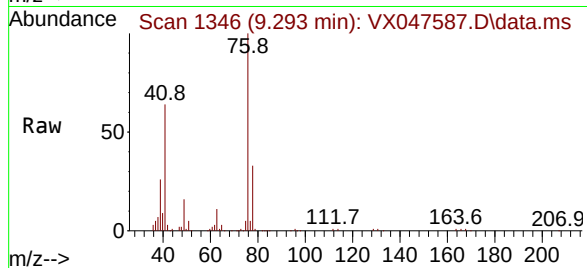
78 32.6 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#58

2-Chloroethyl Vinyl ether

Concen: 86.617 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX047587.D

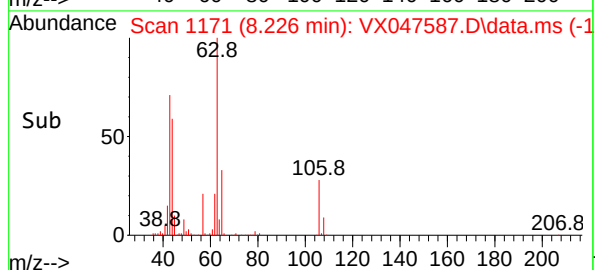
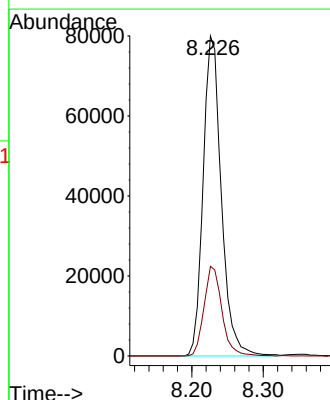
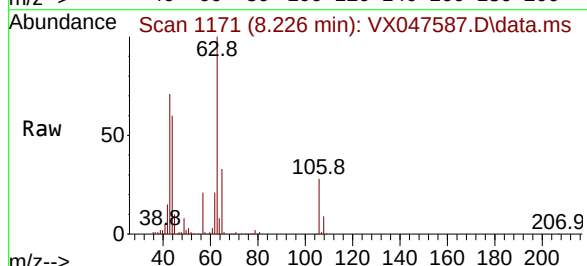
Acq: 16 Sep 2025 10:37

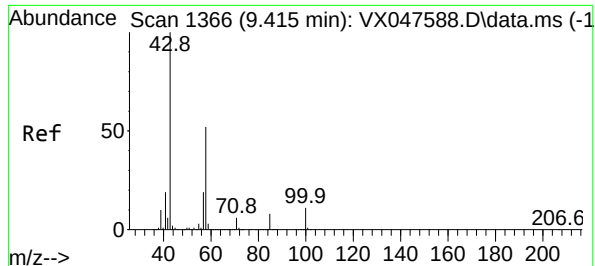
Tgt Ion: 63 Resp: 141395

Ion Ratio Lower Upper

63 100

106 27.5 21.9 32.9





#59

2-Hexanone

Concen: 108.488 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 25000

Ion Ratio Lower Upper

43 100

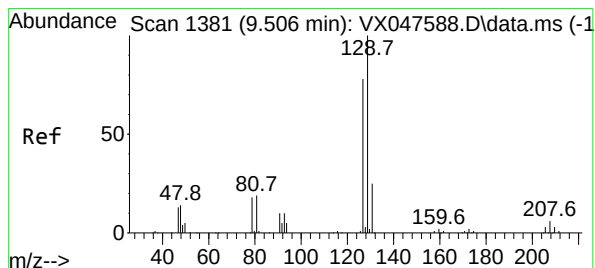
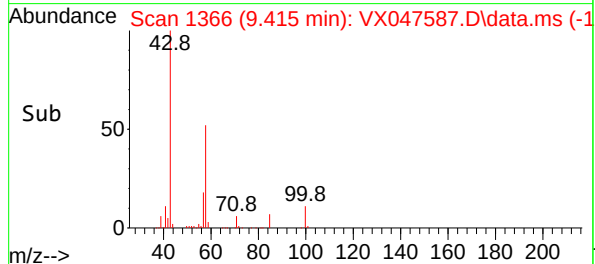
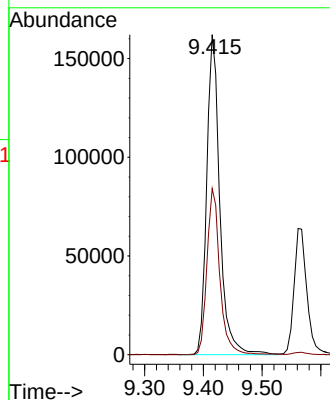
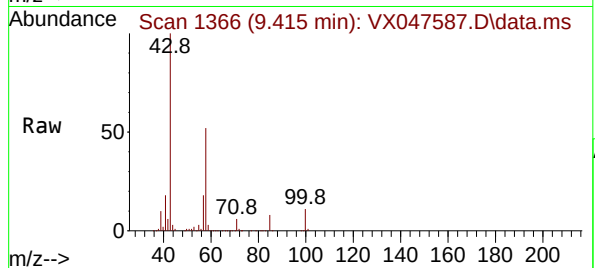
58 51.4 26.1 78.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#60

Dibromochloromethane

Concen: 21.167 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VX047587.D

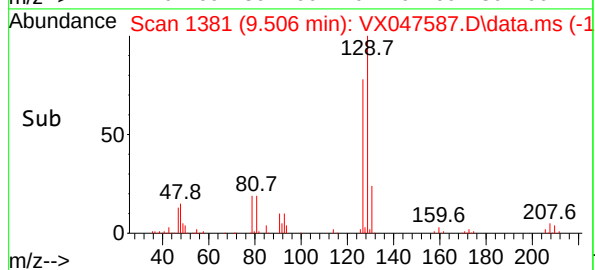
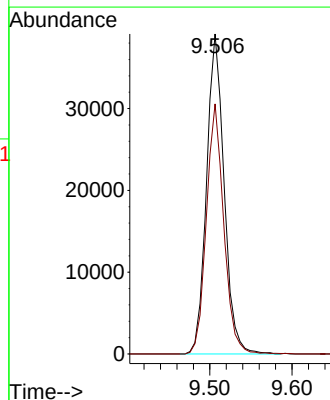
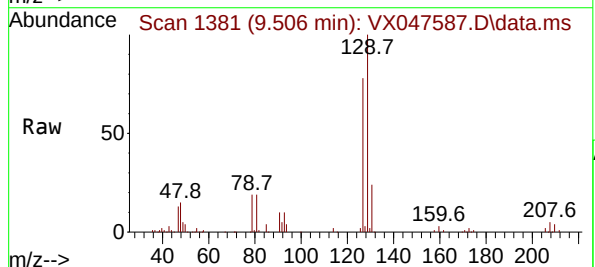
Acq: 16 Sep 2025 10:37

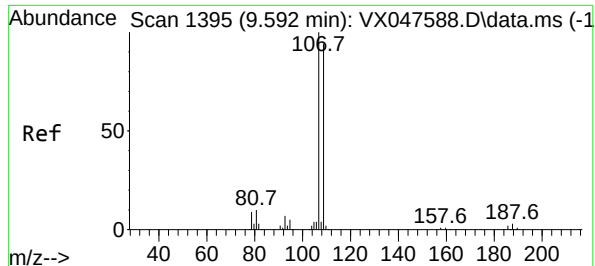
Tgt Ion:129 Resp: 57994

Ion Ratio Lower Upper

129 100

127 77.7 38.4 115.2





#61

1,2-Dibromoethane

Concen: 21.310 ug/l

RT: 9.598 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:107 Resp: 51614

Ion Ratio Lower Upper

107 100

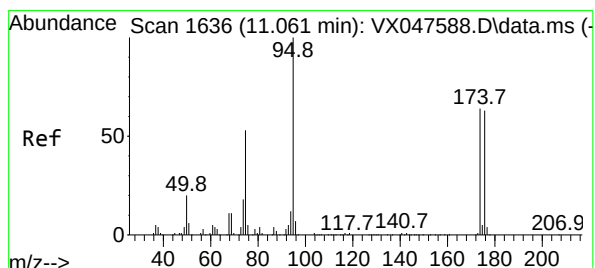
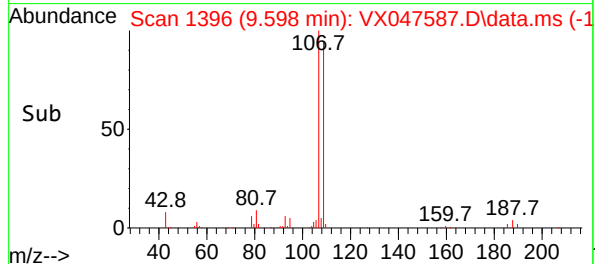
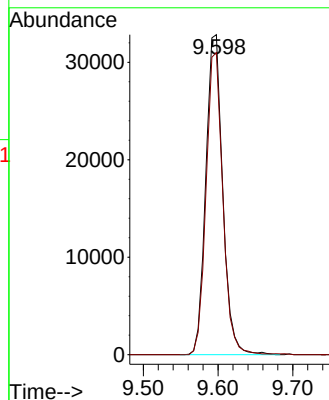
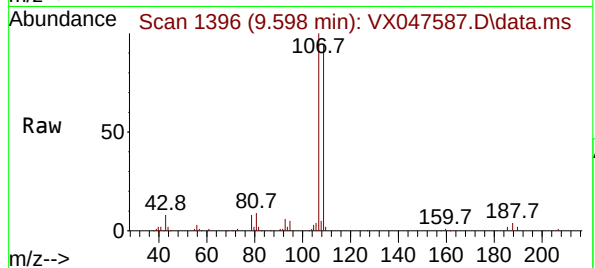
109 93.4 75.3 112.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#62

4-Bromofluorobenzene

Concen: 16.360 ug/l

RT: 11.067 min Scan# 1637

Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

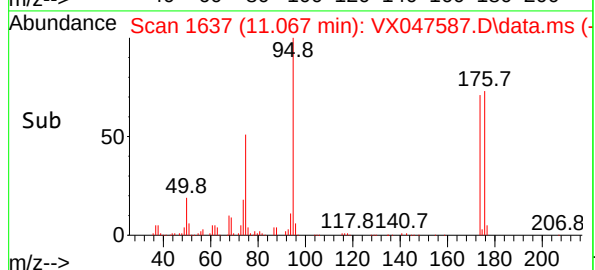
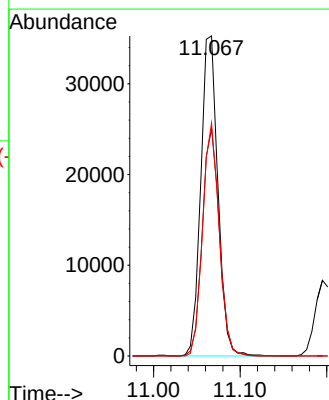
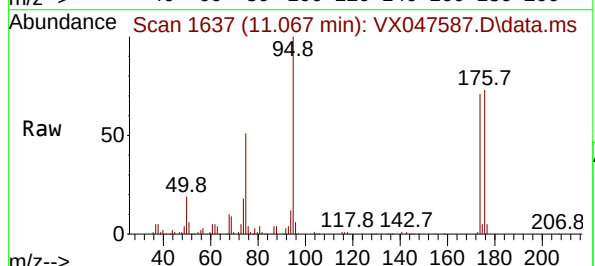
Tgt Ion: 95 Resp: 48454

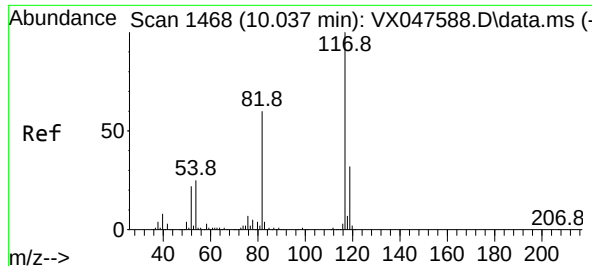
Ion Ratio Lower Upper

95 100

174 70.2 0.0 141.6

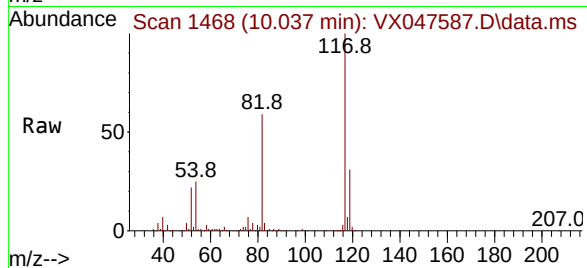
176 70.3 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

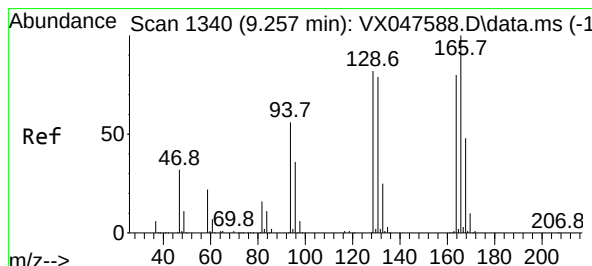
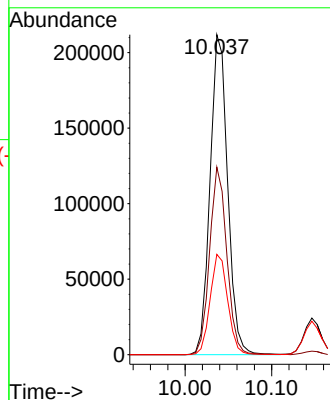
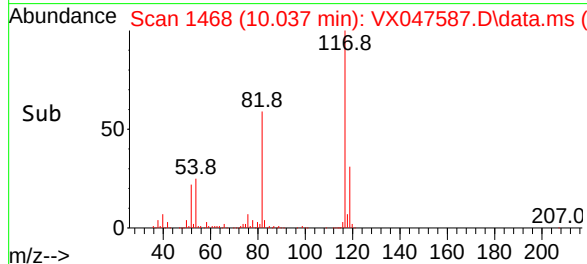
Instrument : MSVOA_X
ClientSampleId : VSTDICC020



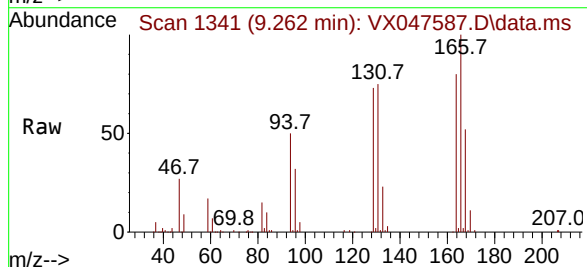
Tgt Ion:117 Resp: 298629
Ion Ratio Lower Upper
117 100
82 58.6 47.8 71.6
119 31.3 25.2 37.8

Manual Integrations
APPROVED

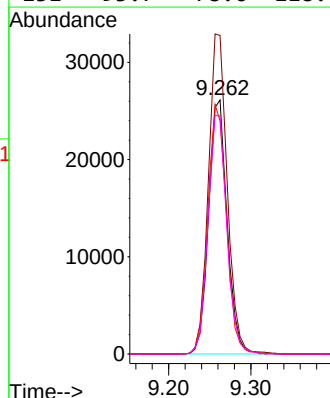
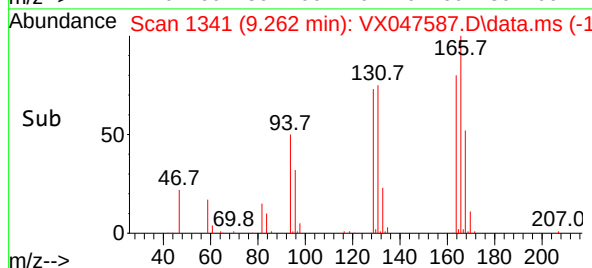
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

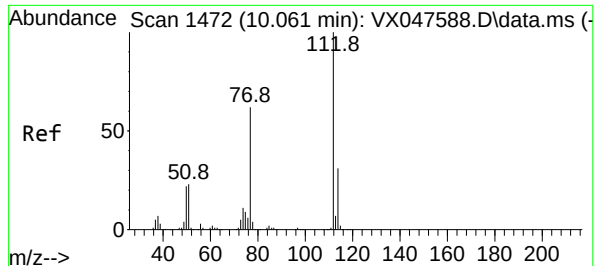


#64
Tetrachloroethene
Concen: 20.979 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37



Tgt Ion:164 Resp: 40840
Ion Ratio Lower Upper
164 100
166 125.4 100.2 150.2
129 91.8 81.8 122.6
131 93.7 78.6 118.0





#65

Chlorobenzene

Concen: 20.731 ug/l

RT: 10.061 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:112 Resp: 14064

Ion Ratio Lower Upper

112 100

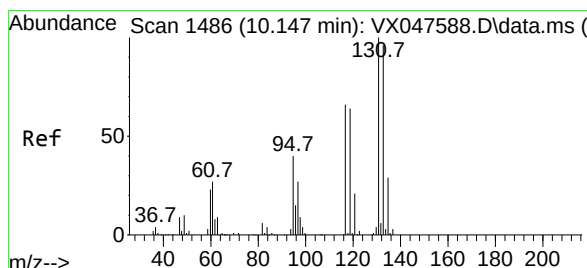
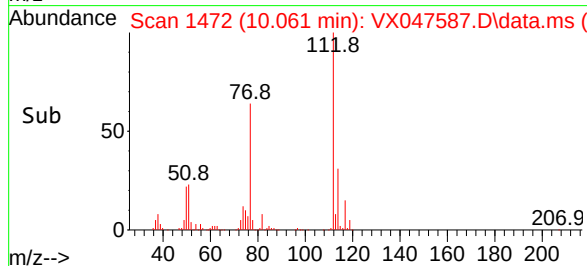
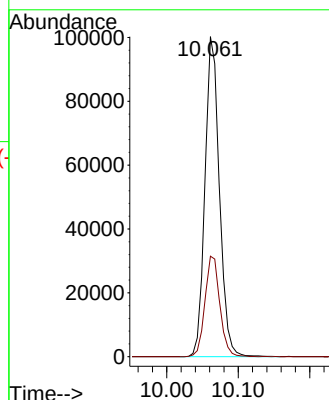
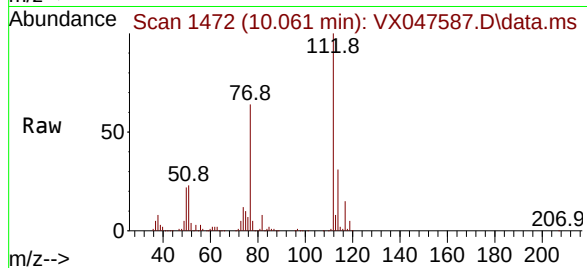
114 31.4 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 20.513 ug/l

RT: 10.146 min Scan# 1486

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

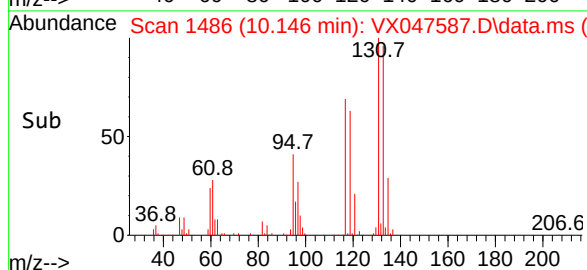
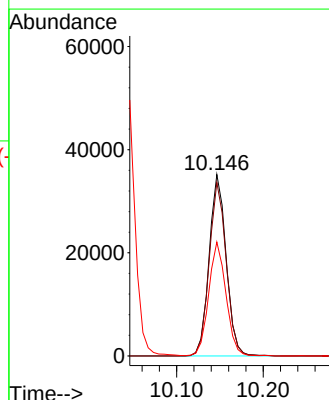
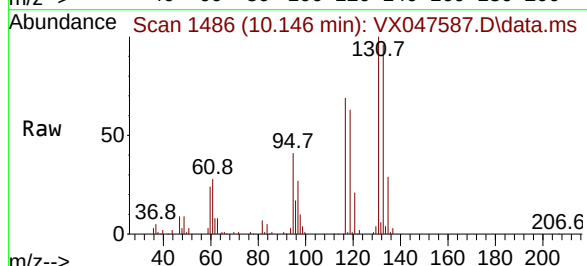
Tgt Ion:131 Resp: 48022

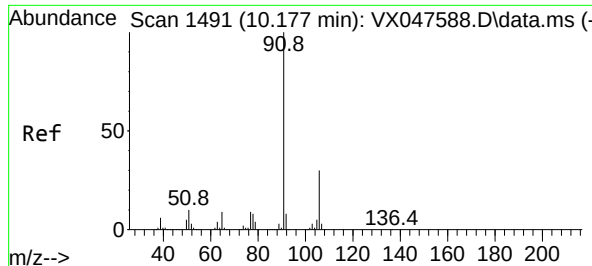
Ion Ratio Lower Upper

131 100

133 95.9 47.3 142.0

119 63.9 32.0 96.0





#67

Ethyl Benzene

Concen: 20.907 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 24473

Ion Ratio Lower Upper

91 100

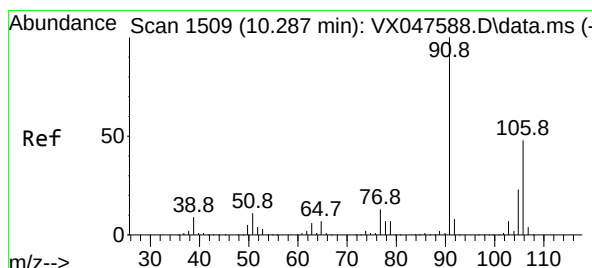
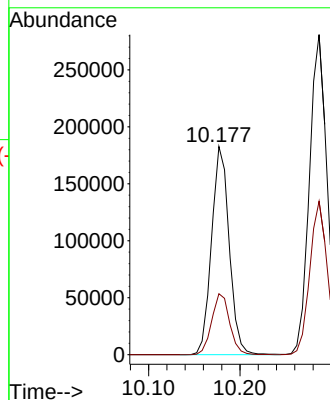
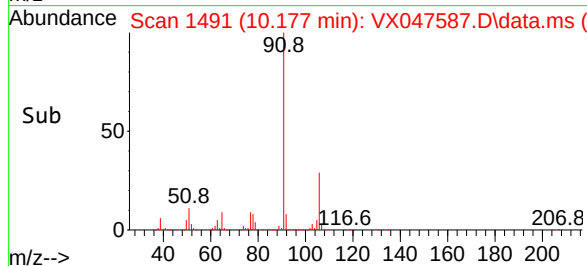
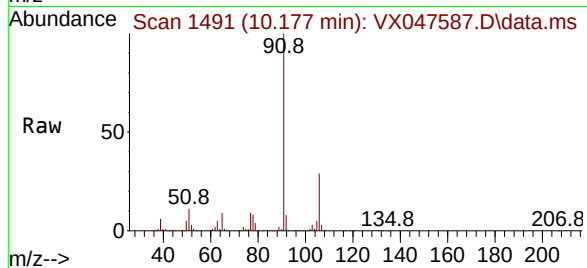
106 29.3 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#68

m/p-Xylenes

Concen: 41.951 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX047587.D

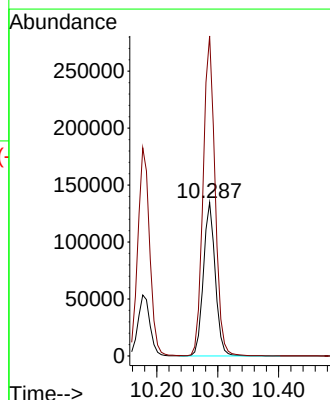
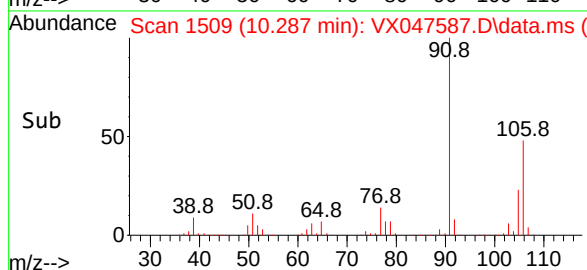
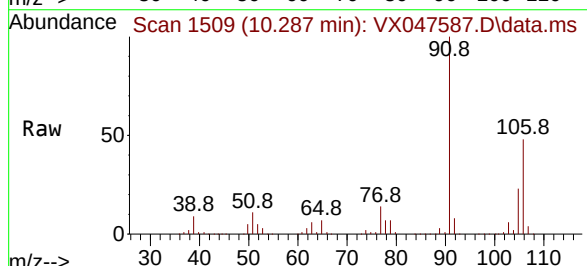
Acq: 16 Sep 2025 10:37

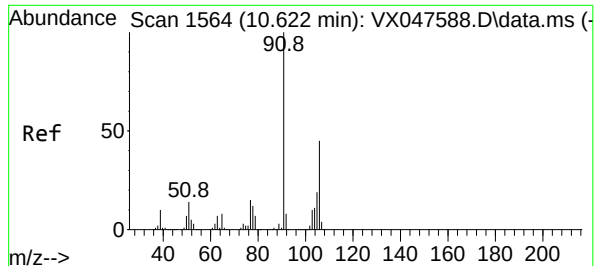
Tgt Ion:106 Resp: 182778

Ion Ratio Lower Upper

106 100

91 210.2 167.8 251.8





#69

o-Xylene

Concen: 20.799 ug/l

RT: 10.628 min Scan# 1565

Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:106 Resp: 8765

Ion Ratio Lower Upper

106 100

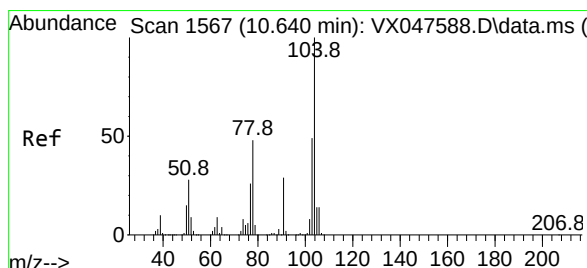
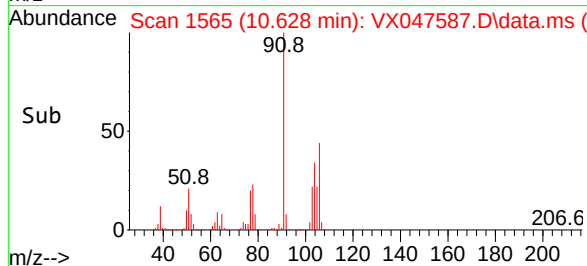
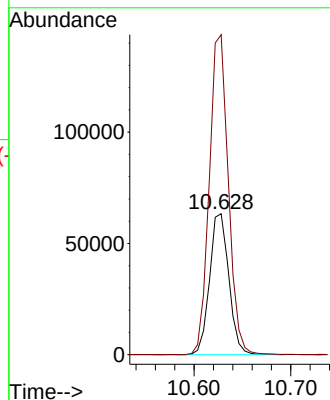
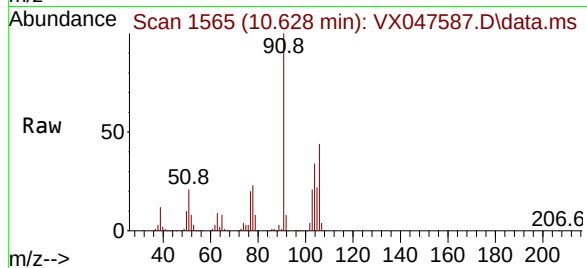
91 225.3 111.1 333.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#70

Styrene

Concen: 20.866 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

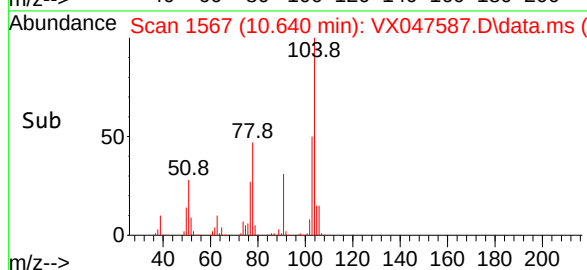
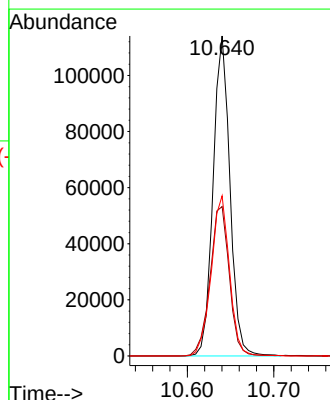
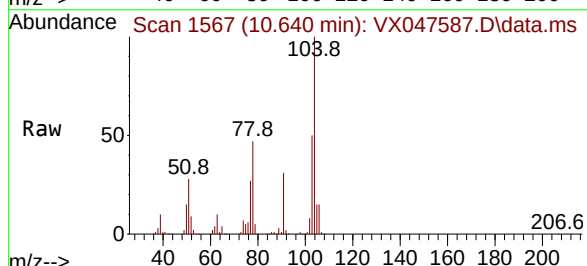
Tgt Ion:104 Resp: 154077

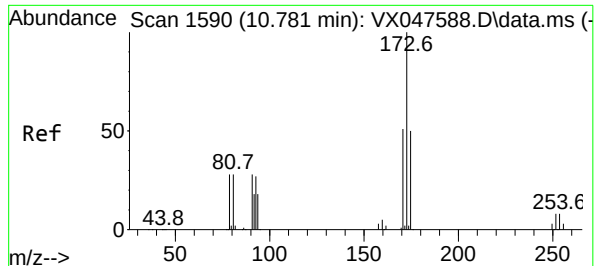
Ion Ratio Lower Upper

104 100

78 53.6 43.1 64.7

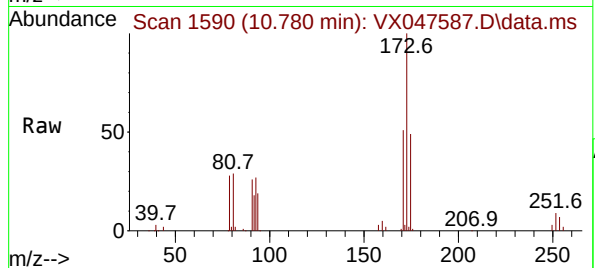
103 54.4 43.1 64.7





#71
Bromoform
Concen: 20.550 ug/l
RT: 10.780 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

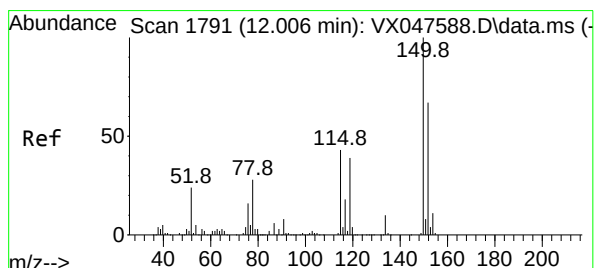
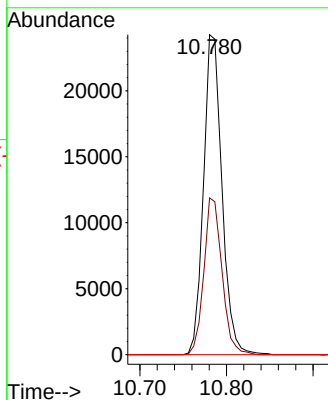
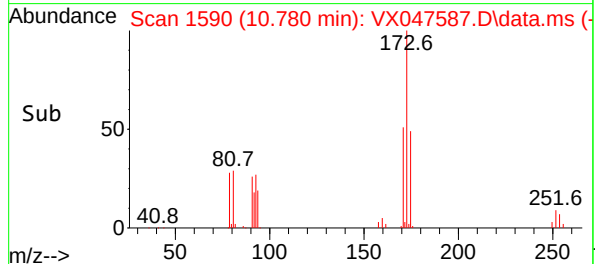
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



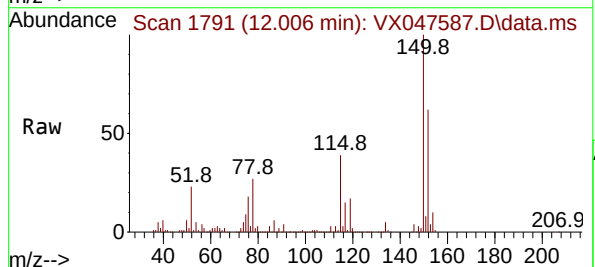
Tgt Ion:173 Resp: 3592
Ion Ratio Lower Upper
173 100
175 48.3 24.9 74.6
254 0.0 0.1 0.1

Manual Integrations
APPROVED

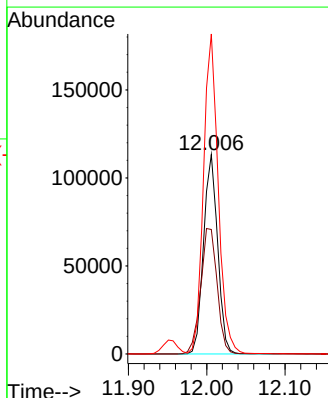
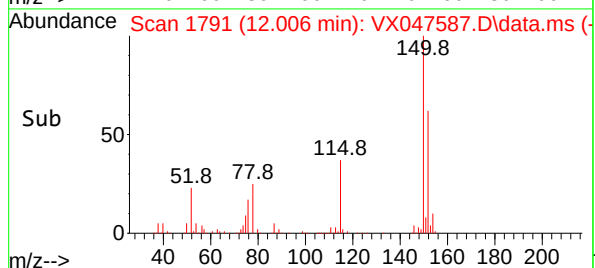
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

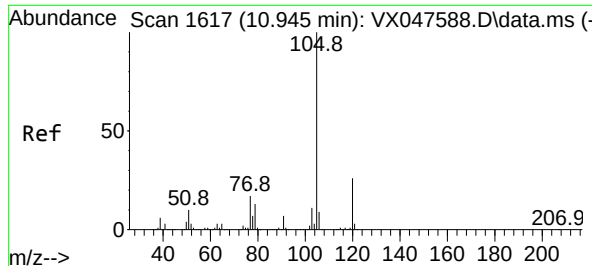


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37



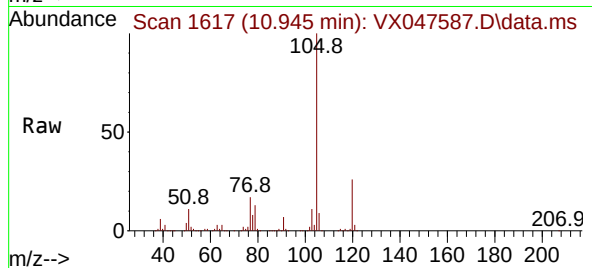
Tgt Ion:152 Resp: 141590
Ion Ratio Lower Upper
152 100
115 73.2 44.9 134.5
150 167.1 0.0 352.0





#73
Isopropylbenzene
Concen: 20.970 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

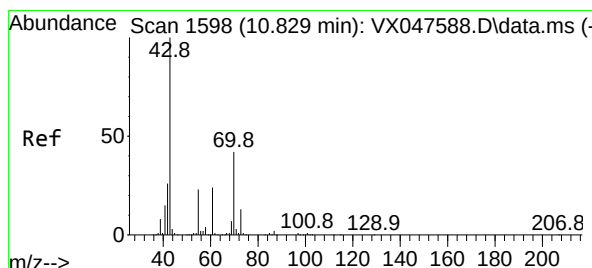
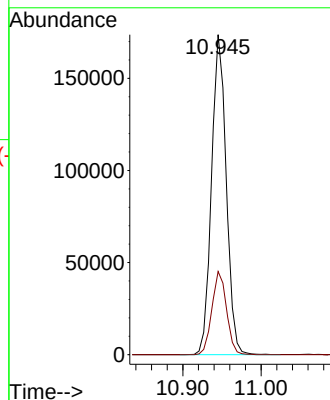
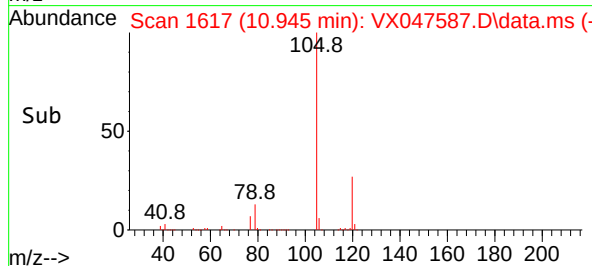
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion: 105 Resp: 225730
Ion Ratio Lower Upper
105 100
120 25.9 12.8 38.4

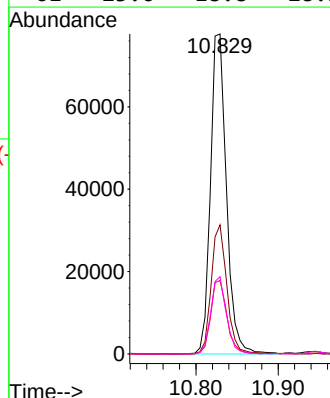
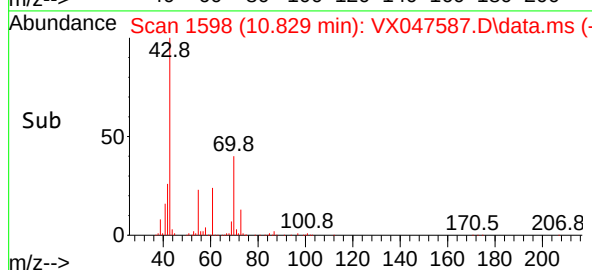
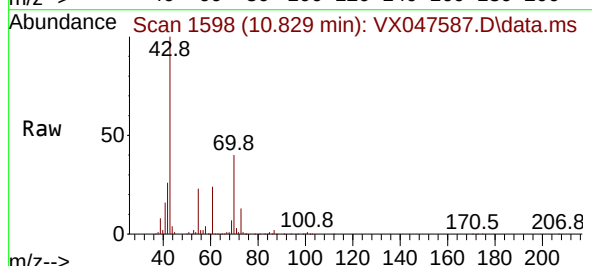
Manual Integrations
APPROVED

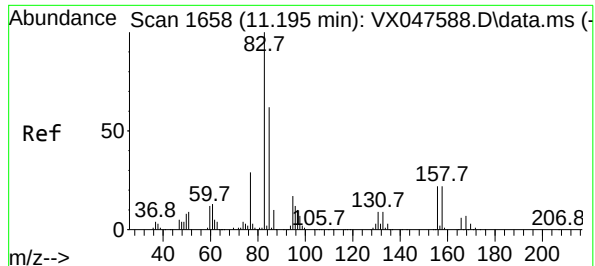
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#74
N-ethyl acetate
Concen: 21.354 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 43 Resp: 104823
Ion Ratio Lower Upper
43 100
70 39.8 32.0 48.0
55 23.4 18.9 28.3
61 23.6 18.8 28.2





#75

1,1,2,2-Tetrachloroethane

Concen: 20.920 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

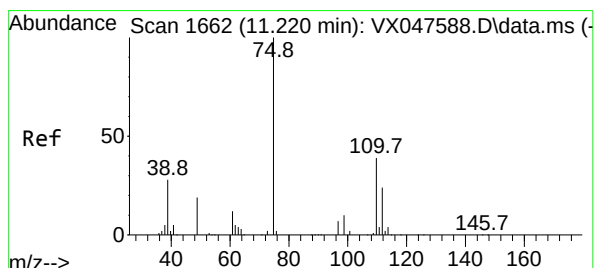
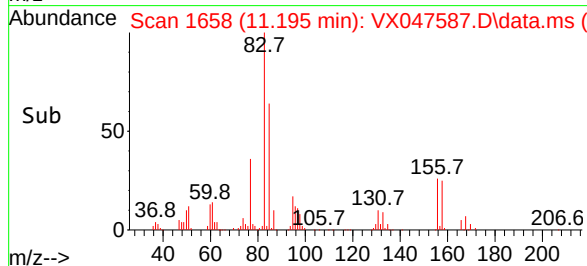
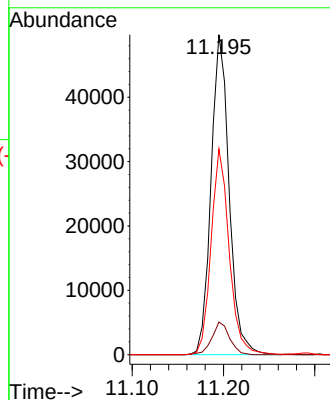
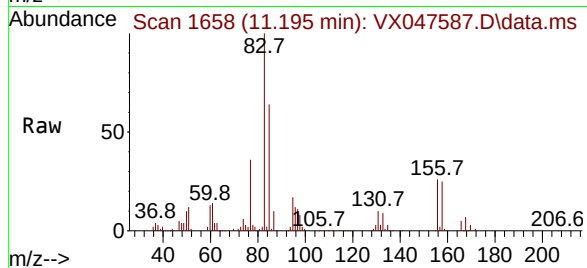
Tgt Ion:	83	Resp:	6813
Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	64.4	31.6	95.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#76

1,2,3-Trichloropropane

Concen: 20.680 ug/l m

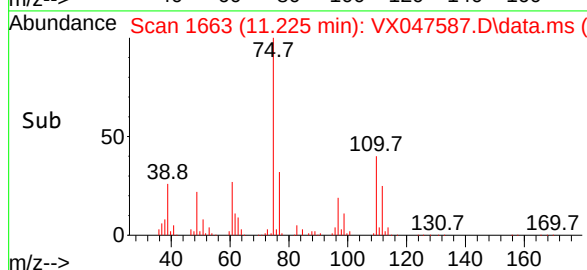
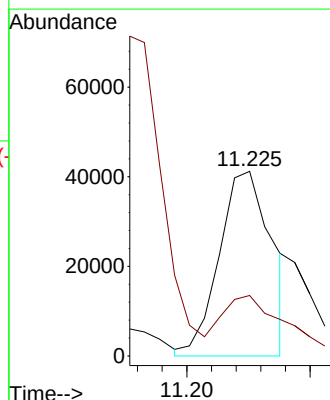
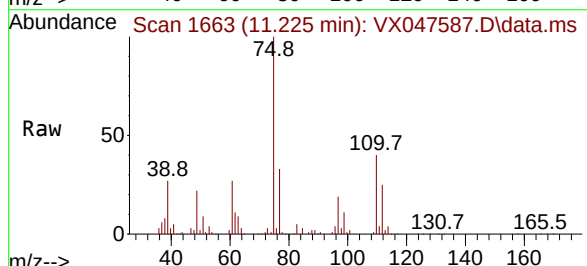
RT: 11.225 min Scan# 1663

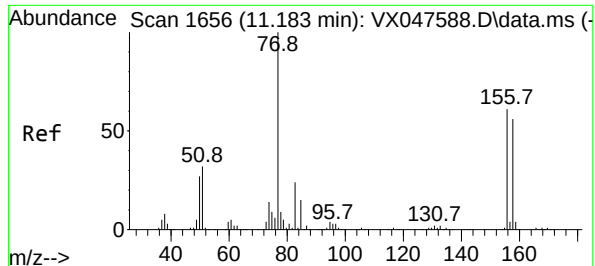
Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

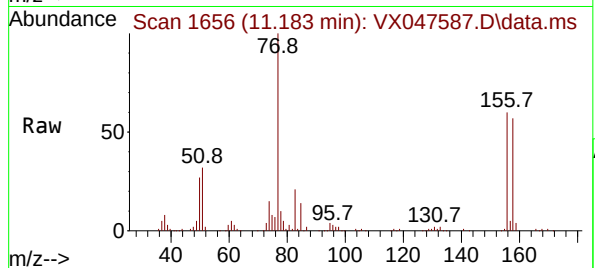
Tgt Ion:	75	Resp:	60797
Ion	Ratio	Lower	Upper
75	100		
77	39.6	18.8	56.4





#77
Bromobenzene
Concen: 21.183 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

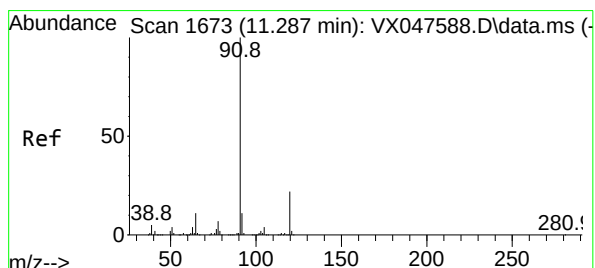
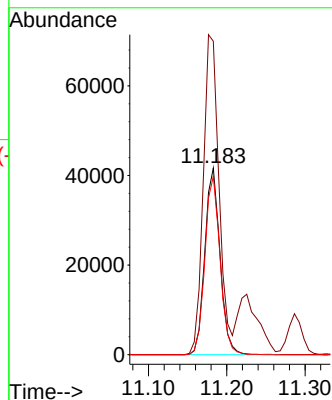
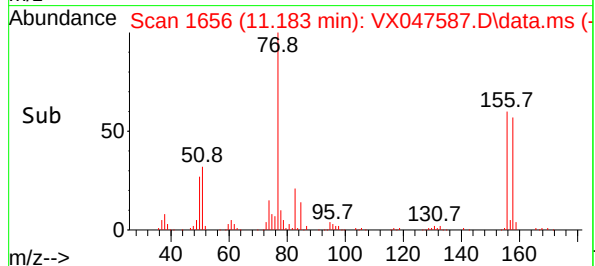
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



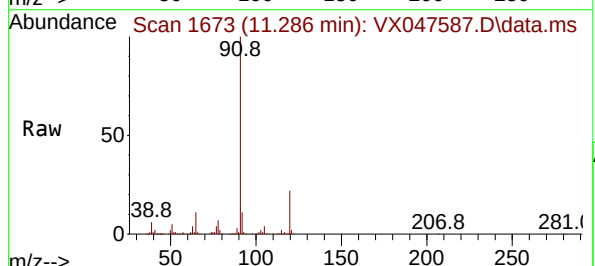
Tgt Ion:156 Resp: 5616
Ion Ratio Lower Upper
156 100
77 177.4 89.7 269.1
158 95.2 47.9 143.6

Manual Integrations
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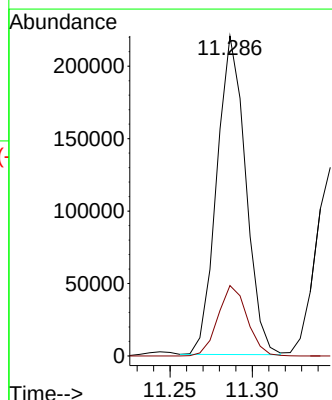
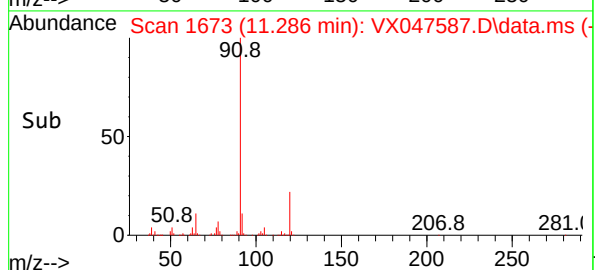
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

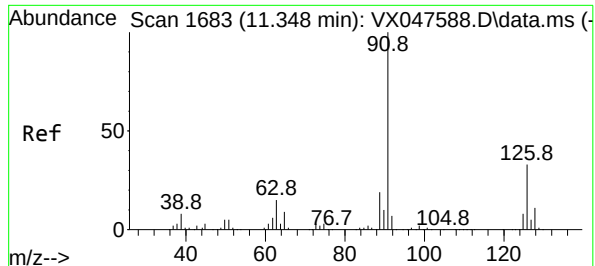


#78
n-propylbenzene
Concen: 21.092 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37



Tgt Ion: 91 Resp: 268399
Ion Ratio Lower Upper
91 100
120 22.3 11.1 33.1





#79

2-Chlorotoluene

Concen: 21.329 ug/l

RT: 11.347 min Scan# 1683

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 16623

Ion Ratio Lower Upper

91 100

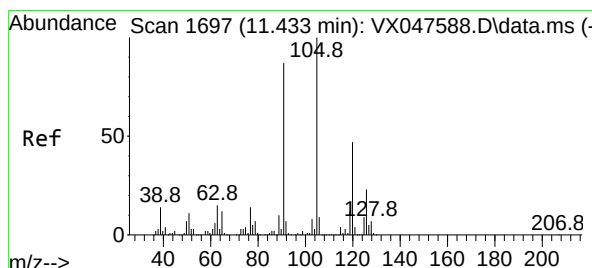
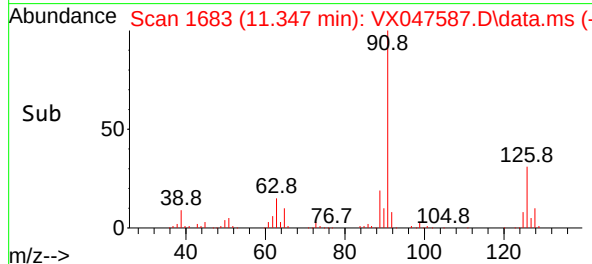
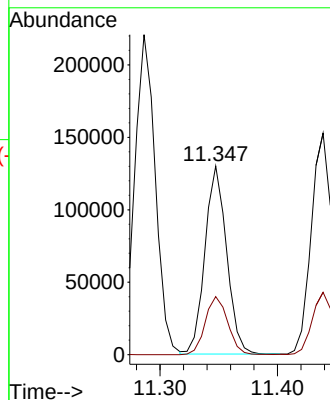
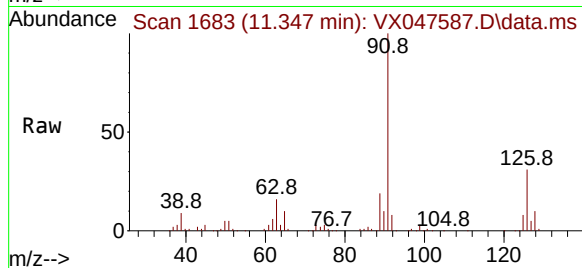
126 32.1 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#80

1,3,5-Trimethylbenzene

Concen: 21.202 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX047587.D

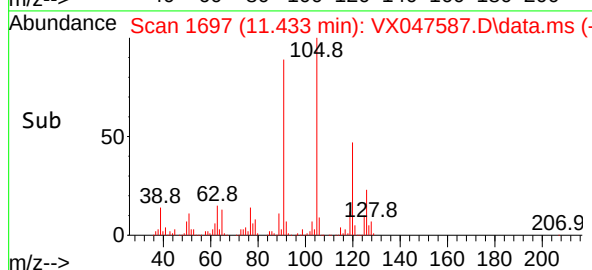
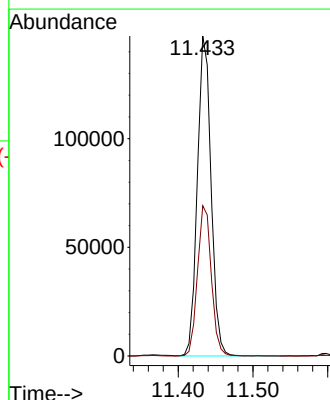
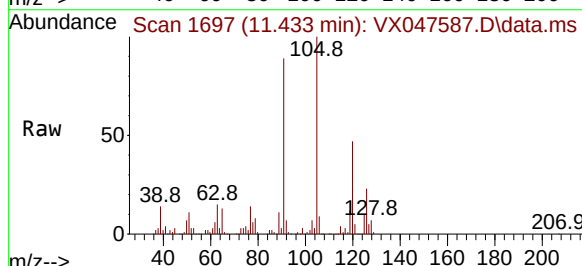
Acq: 16 Sep 2025 10:37

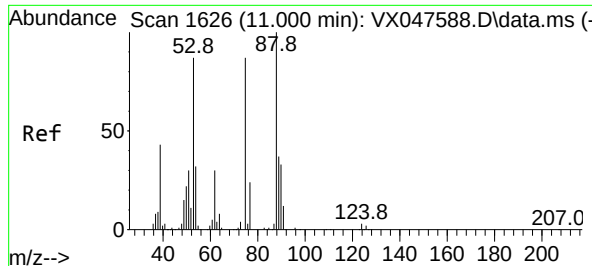
Tgt Ion:105 Resp: 187513

Ion Ratio Lower Upper

105 100

120 47.4 23.6 70.8





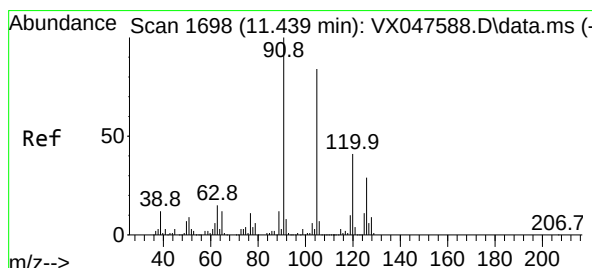
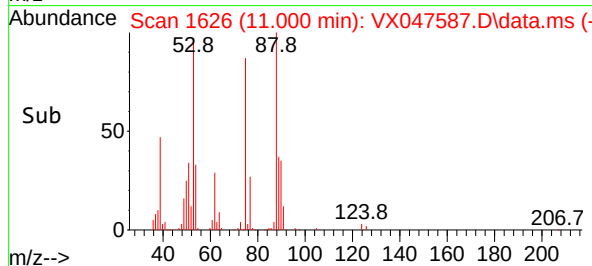
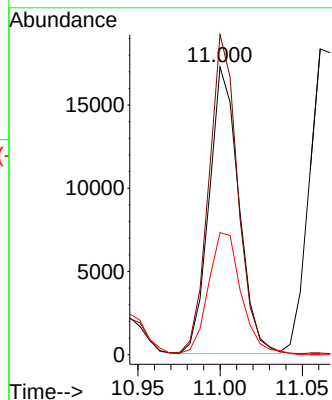
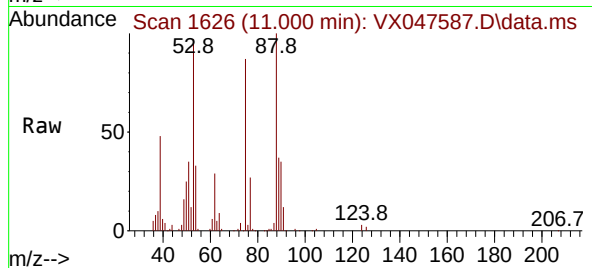
#81
trans-1,4-Dichloro-2-butene
Concen: 19.173 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tgt Ion: 75 Resp: 2155
Ion Ratio Lower Upper
75 100
53 109.1 83.4 125.2
89 47.6 36.3 54.5

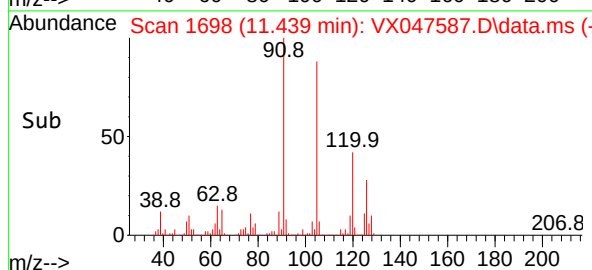
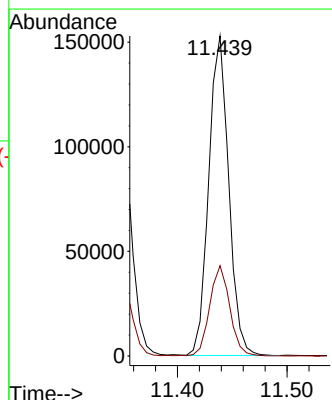
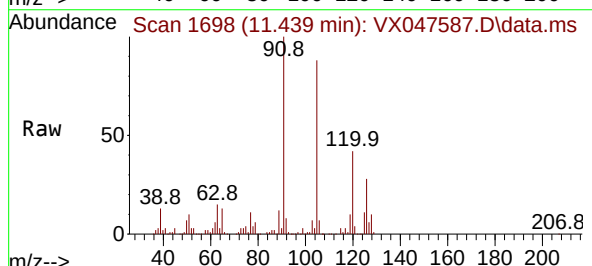
Manual Integrations
APPROVED

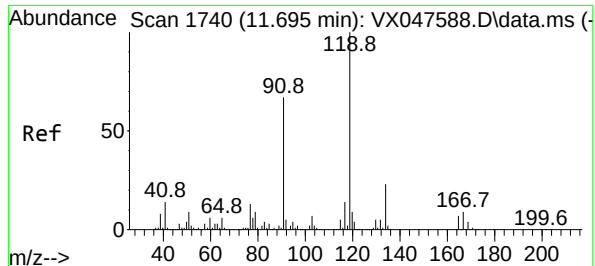
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#82
4-Chlorotoluene
Concen: 20.980 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion: 91 Resp: 193122
Ion Ratio Lower Upper
91 100
126 28.5 14.2 42.6





#83

tert-Butylbenzene

Concen: 20.929 ug/l

RT: 11.695 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:119 Resp: 189484

Ion Ratio Lower Upper

119 100

91 59.2 29.6 88.8

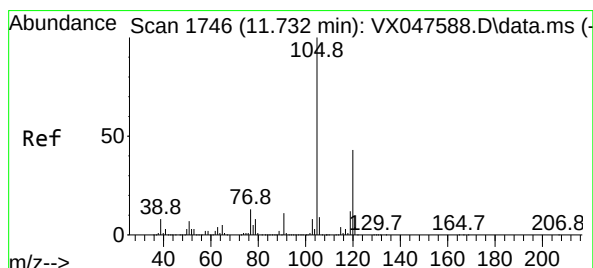
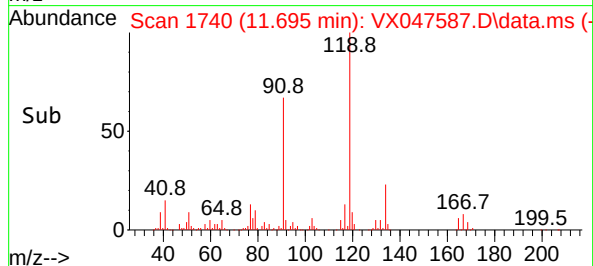
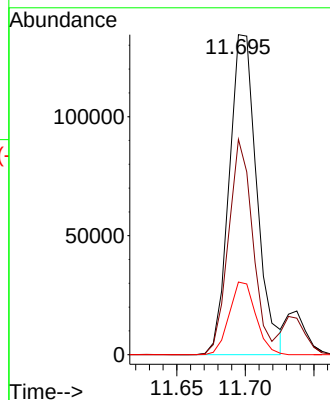
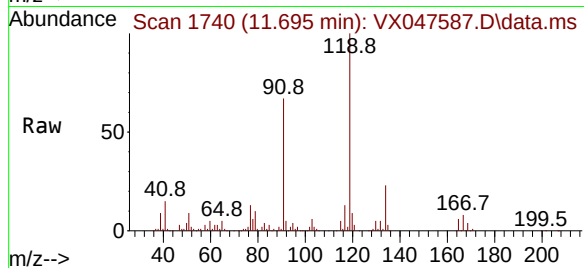
134 21.8 11.0 33.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#84

1,2,4-Trimethylbenzene

Concen: 21.355 ug/l

RT: 11.738 min Scan# 1747

Delta R.T. 0.006 min

Lab File: VX047587.D

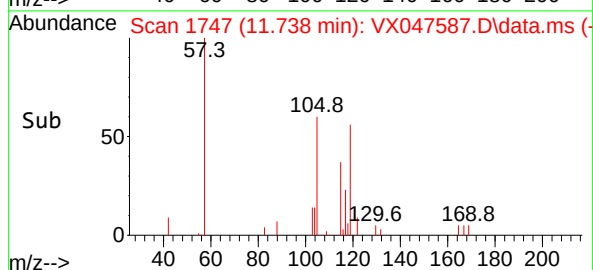
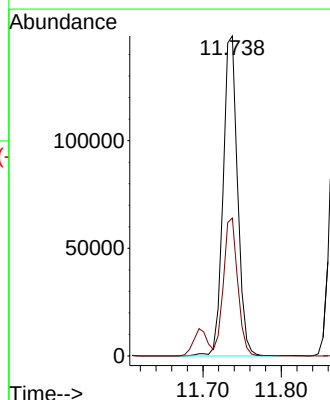
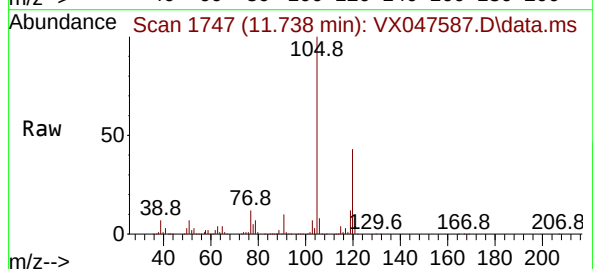
Acq: 16 Sep 2025 10:37

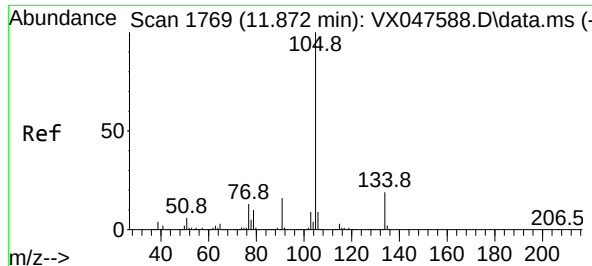
Tgt Ion:105 Resp: 191477

Ion Ratio Lower Upper

105 100

120 42.6 22.1 66.1





#85

sec-Butylbenzene

Concen: 20.777 ug/l

RT: 11.872 min Scan# 1769

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion:105 Resp: 223434

Ion Ratio Lower Upper

105 100

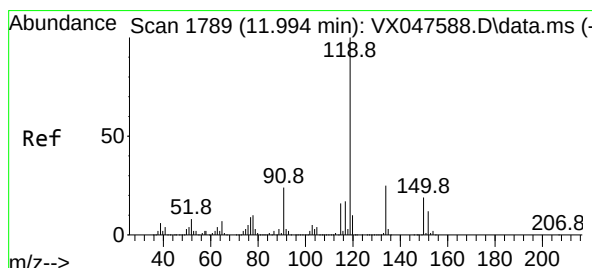
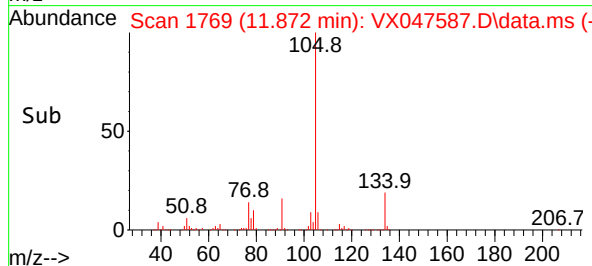
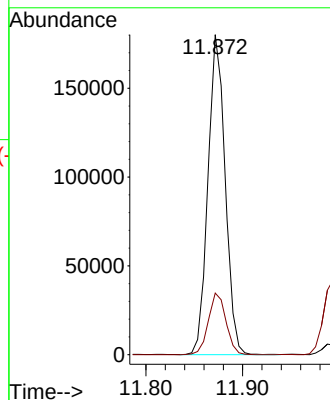
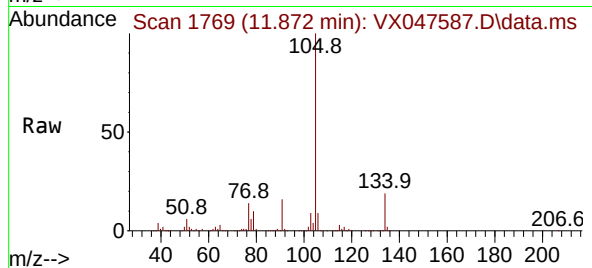
134 19.7 9.8 29.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#86

p-Isopropyltoluene

Concen: 20.972 ug/l

RT: 11.994 min Scan# 1789

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

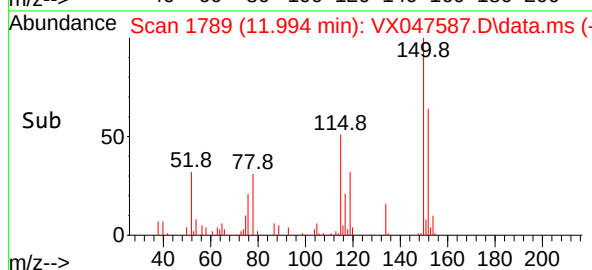
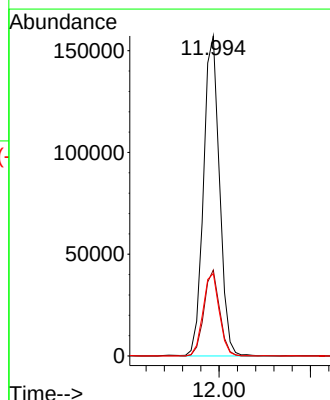
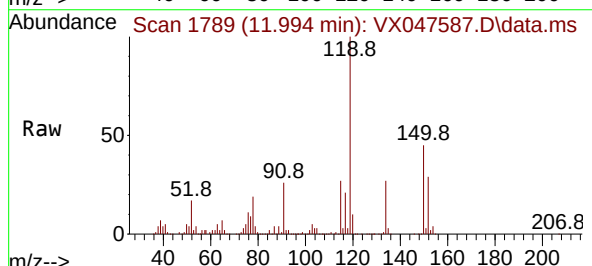
Tgt Ion:119 Resp: 190931

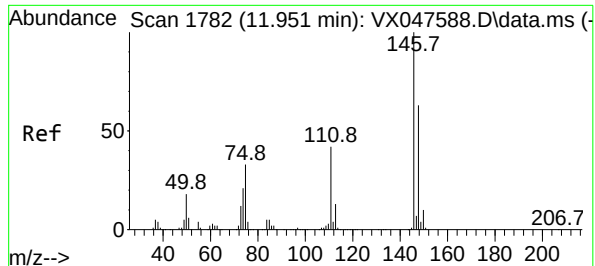
Ion Ratio Lower Upper

119 100

134 26.1 12.6 37.8

91 26.2 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 21.035 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

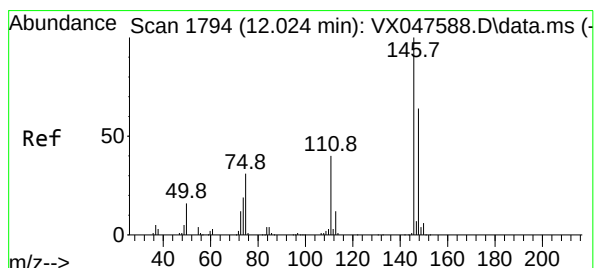
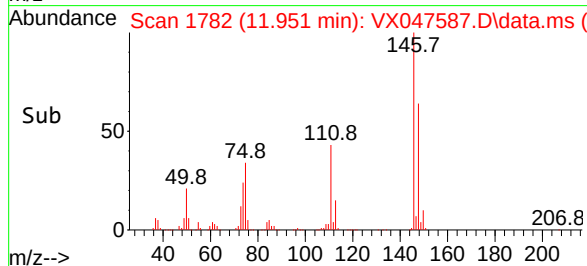
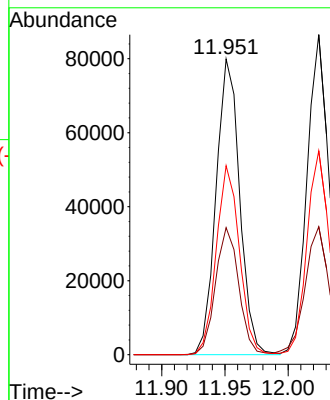
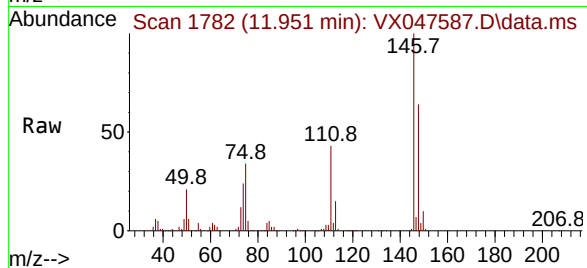
VSTDIC020

Tgt Ion:	146	Resp:	103584
Ion Ratio	Lower	Upper	
146	100		
111	42.4	21.5	64.5
148	62.7	32.0	96.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#88

1,4-Dichlorobenzene

Concen: 20.937 ug/l

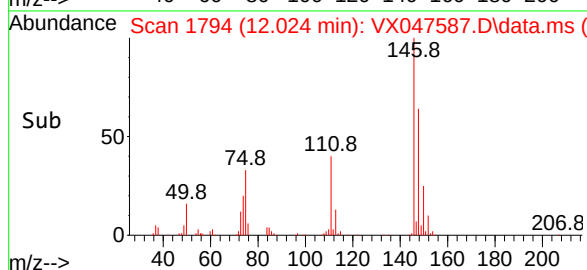
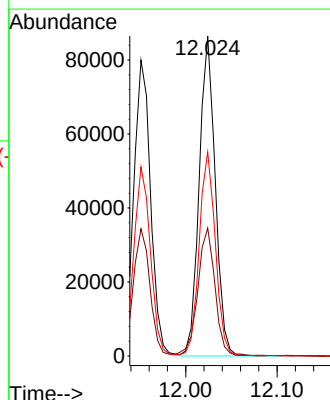
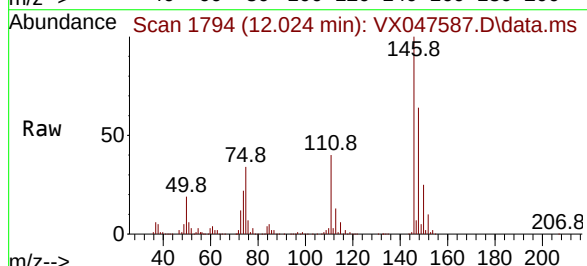
RT: 12.024 min Scan# 1794

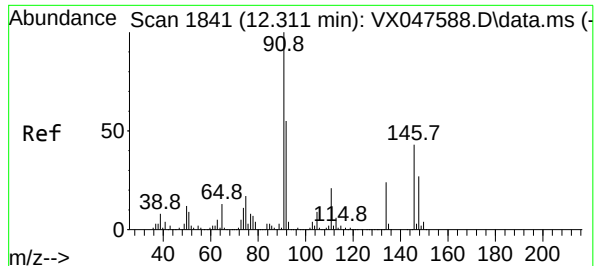
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:	146	Resp:	105819
Ion Ratio	Lower	Upper	
146	100		
111	42.6	20.8	62.4
148	64.4	31.7	95.1





#89

n-Butylbenzene

Concen: 20.937 ug/l

RT: 12.317 min Scan# 1841

Delta R.T. 0.006 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 17637

Ion Ratio Lower Upper

91 100

92 54.6 27.6 82.7

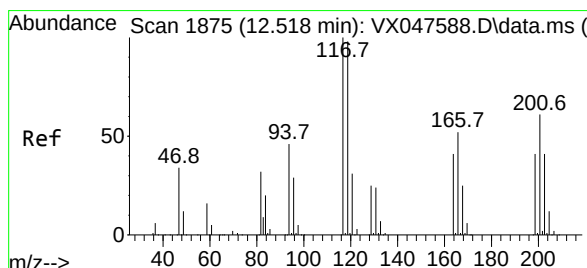
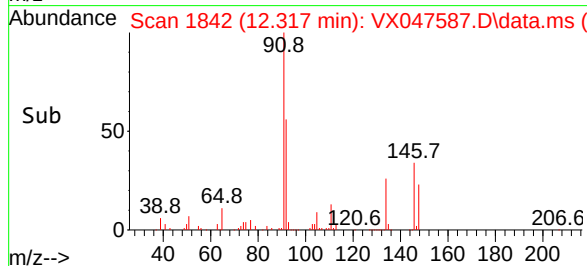
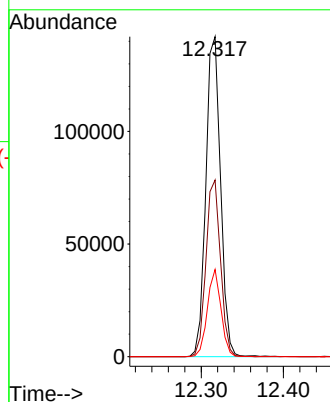
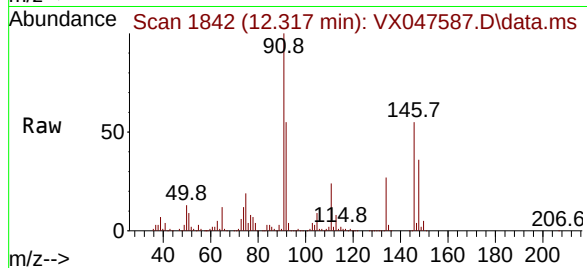
134 25.3 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachloroethane

Concen: 20.349 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX047587.D

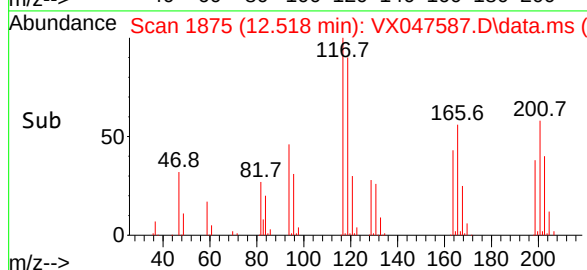
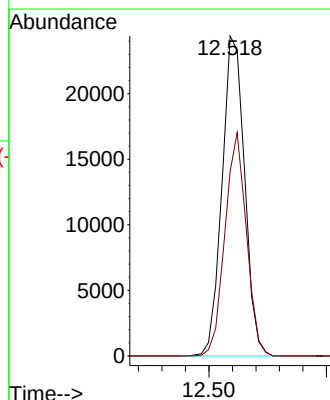
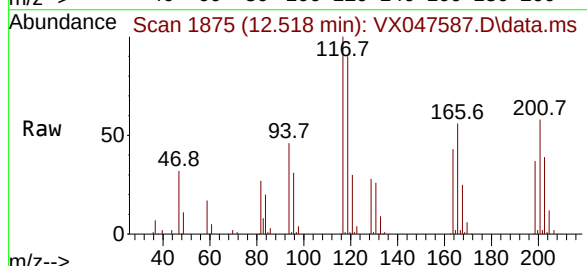
Acq: 16 Sep 2025 10:37

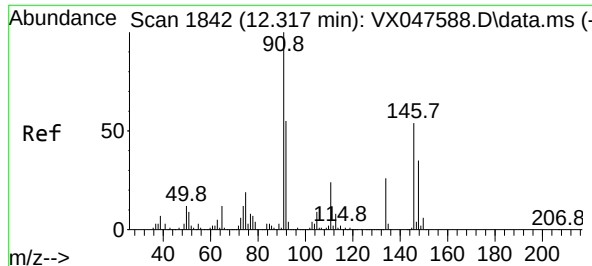
Tgt Ion:117 Resp: 32526

Ion Ratio Lower Upper

117 100

201 66.6 34.2 102.5





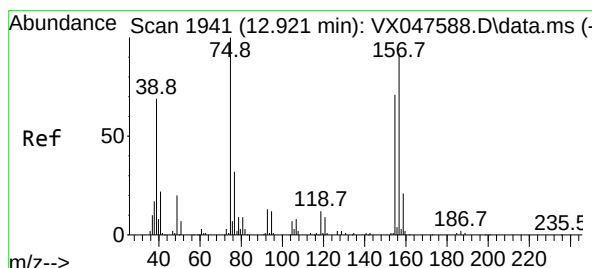
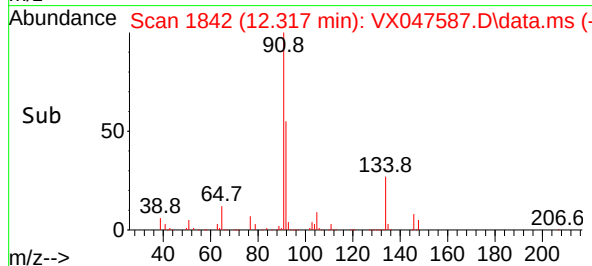
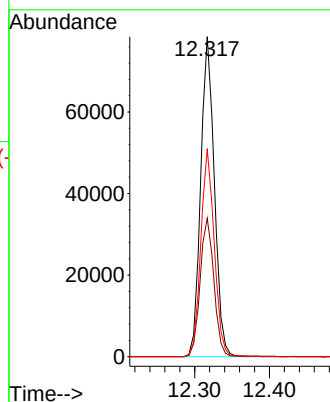
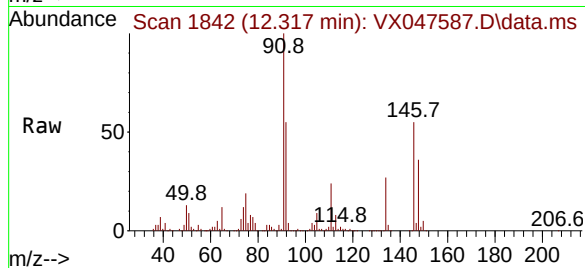
#91
1,2-Dichlorobenzene
Concen: 21.207 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:	146	Resp:	9949
Ion Ratio	Lower	Upper	
146	100		
111	43.4	22.2	66.6
148	63.9	31.8	95.4

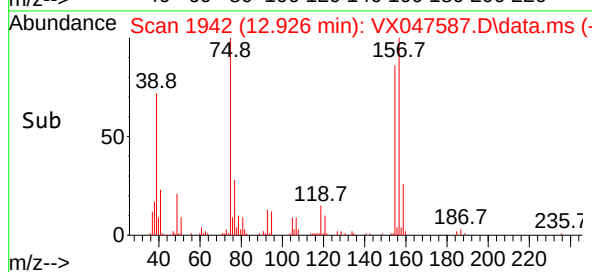
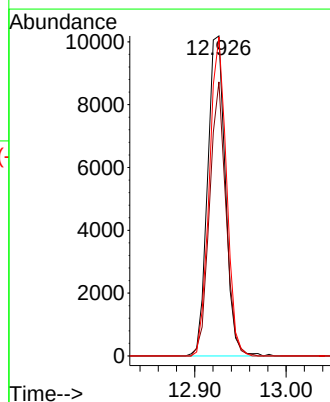
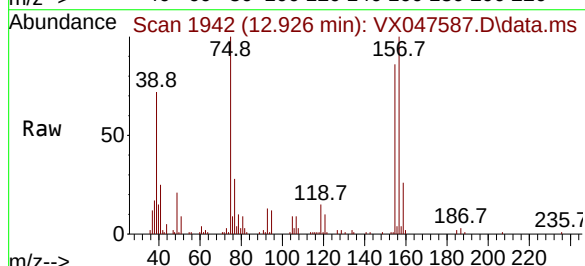
Manual Integrations
APPROVED

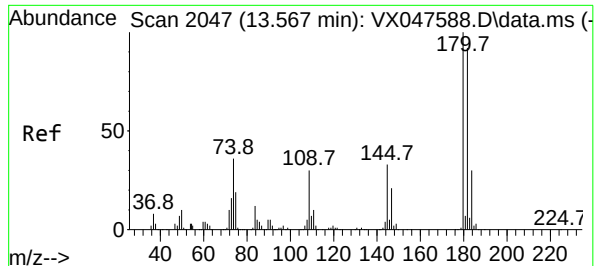
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.821 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Tgt Ion:	75	Resp:	13729
Ion Ratio	Lower	Upper	
75	100		
155	78.8	37.7	113.1
157	95.9	49.8	149.4





#93

1,2,4-Trichlorobenzene

Concen: 20.571 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

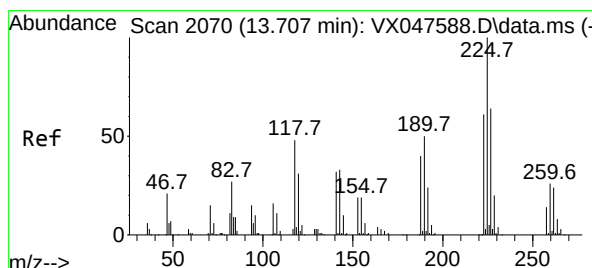
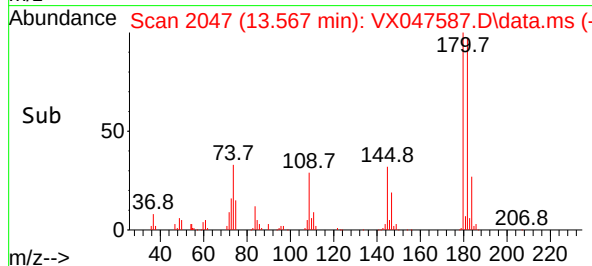
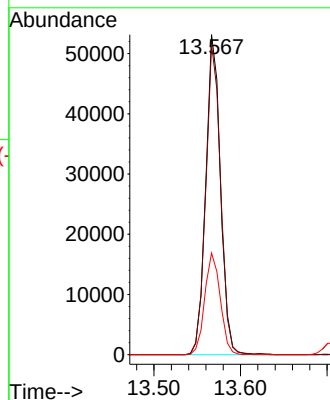
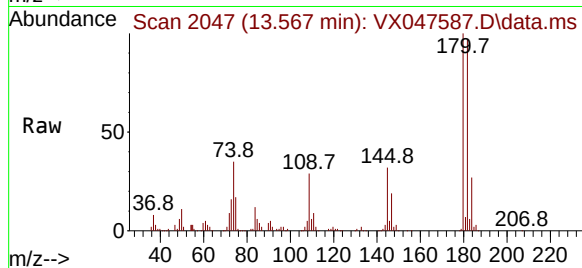
VSTDICC020

Tgt Ion:	180	Resp:	6272
Ion Ratio	Lower	Upper	
180	100		
182	97.8	46.6	139.8
145	33.4	16.4	49.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#94

Hexachlorobutadiene

Concen: 19.751 ug/l

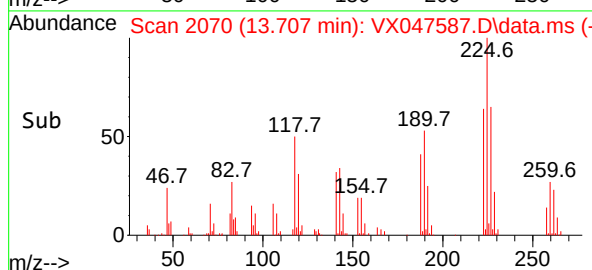
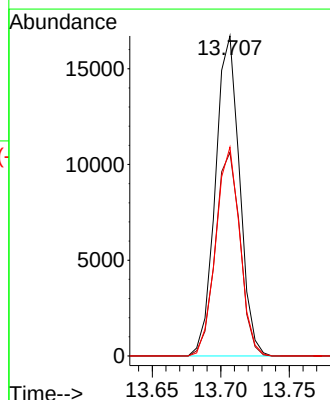
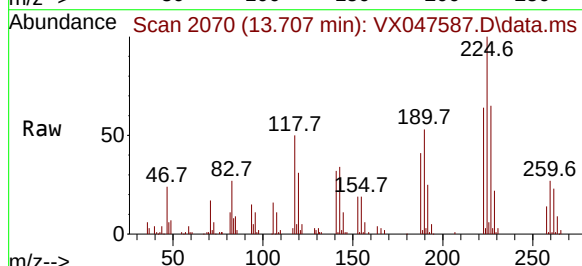
RT: 13.707 min Scan# 2070

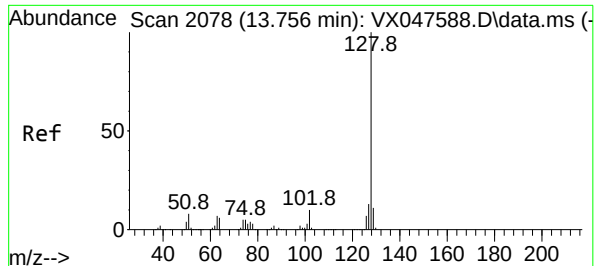
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:	225	Resp:	20456
Ion Ratio	Lower	Upper	
225	100		
223	65.0	31.7	95.1
227	65.1	32.0	96.0





#95

Naphthalene

Concen: 20.801 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

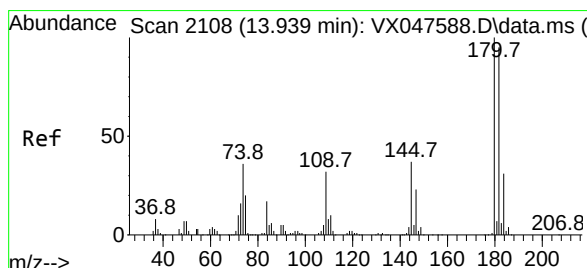
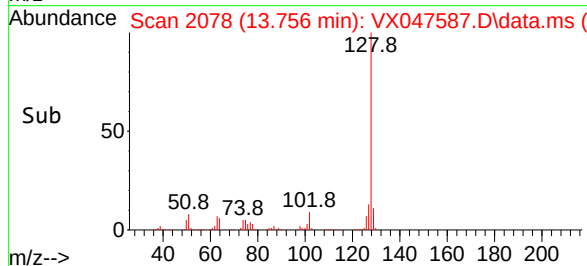
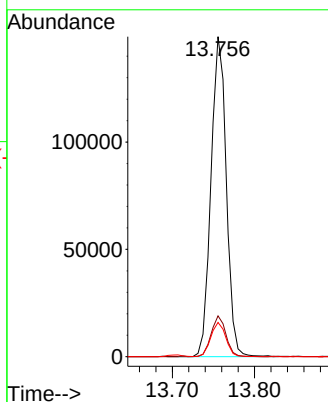
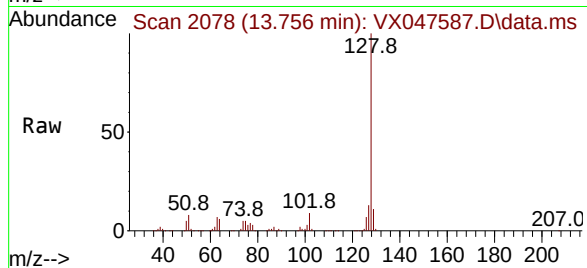
VSTDIC020

Tgt Ion:	128	Resp:	193134
Ion Ratio	Lower	Upper	
128	100		
127	12.3	10.2	15.2
129	10.5	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#96

1,2,3-Trichlorobenzene

Concen: 20.593 ug/l

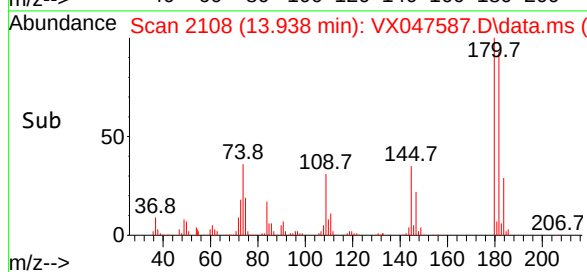
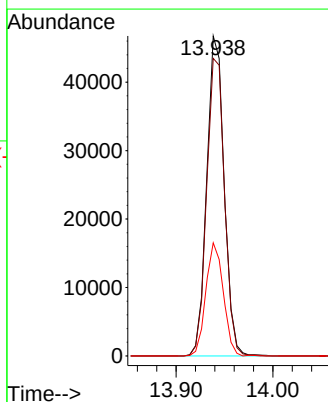
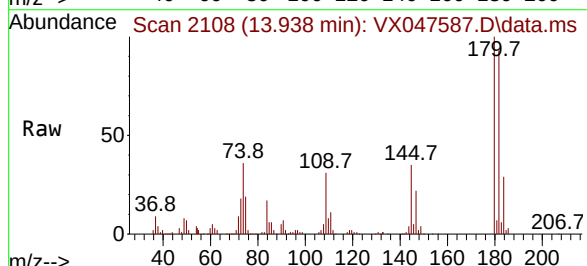
RT: 13.938 min Scan# 2108

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Tgt Ion:	180	Resp:	58409
Ion Ratio	Lower	Upper	
180	100		
182	95.5	47.6	142.8
145	35.5	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047588.D
 Acq On : 16 Sep 2025 10:58
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Quant Time: Sep 17 06:13:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	173407	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	307383	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	270040	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	127732	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.940	65	133606	48.404	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	96.800%
35) Dibromofluoromethane	5.373	113	101627	49.298	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.600%
50) Toluene-d8	8.635	98	352578	49.428	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	98.860%
62) 4-Bromofluorobenzene	11.061	95	131217	48.471	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	96.940%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.173	85	86824	48.352	ug/l	100
3) Chloromethane	1.301	50	114682	48.594	ug/l	100
4) Vinyl Chloride	1.380	62	114666	49.635	ug/l	100
5) Bromomethane	1.618	94	73561	50.216	ug/l	100
6) Chloroethane	1.697	64	76736	49.698	ug/l	100
7) Trichlorofluoromethane	1.898	101	172561	50.307	ug/l	100
8) Diethyl Ether	2.136	74	70874	50.510	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.337	101	101178	50.445	ug/l	100
10) Methyl Iodide	2.459	142	158046	50.525	ug/l	100
11) Tert butyl alcohol	2.941	59	77232	251.232	ug/l	100
12) 1,1-Dichloroethene	2.325	96	104724	50.831	ug/l	100
13) Acrolein	2.239	56	70721	249.645	ug/l	100
14) Allyl chloride	2.666	41	210001	49.396	ug/l	100
15) Acrylonitrile	3.063	53	300642	264.027	ug/l	100
16) Acetone	2.374	43	275065	229.193	ug/l	100
17) Carbon Disulfide	2.520	76	271480	48.133	ug/l	100
18) Methyl Acetate	2.703	43	151968	56.897	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	389607	51.804	ug/l	100
20) Methylene Chloride	2.788	84	126506	49.798	ug/l	100
21) trans-1,2-Dichloroethene	3.093	96	112553	50.743	ug/l	100
22) Diisopropyl ether	3.758	45	429524	52.131	ug/l	100
23) Vinyl Acetate	3.715	43	1726735	261.852	ug/l	100
24) 1,1-Dichloroethane	3.605	63	224824	51.338	ug/l	100
25) 2-Butanone	4.538	43	380335	254.060	ug/l	100
26) 2,2-Dichloropropane	4.465	77	185247	50.888	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	140105	51.576	ug/l	100
28) Bromochloromethane	4.891	49	99991	52.301	ug/l	100
29) Tetrahydrofuran	4.989	42	238677	265.026	ug/l	100
30) Chloroform	5.080	83	229430	51.844	ug/l	100
31) Cyclohexane	5.458	56	178546	48.952	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	195407	52.058	ug/l	100
36) 1,1-Dichloropropene	5.684	75	149800	49.729	ug/l	100
37) Ethyl Acetate	4.702	43	163482	50.687	ug/l	100
38) Carbon Tetrachloride	5.672	117	165730	50.637	ug/l	100
39) Methylcyclohexane	7.367	83	173610	50.773	ug/l	100
40) Benzene	6.025	78	468136	51.167	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047588.D
 Acq On : 16 Sep 2025 10:58
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Quant Time: Sep 17 06:13:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.904	41	87761	52.707	ug/l	100
42) 1,2-Dichloroethane	6.074	62	179037	51.431	ug/l	100
43) Isopropyl Acetate	6.324	43	275572	52.096	ug/l	100
44) Trichloroethene	7.111	130	113832	51.463	ug/l	100
45) 1,2-Dichloropropane	7.415	63	122109	52.122	ug/l	100
46) Dibromomethane	7.568	93	88505	51.914	ug/l	100
47) Bromodichloromethane	7.806	83	186540	53.025	ug/l	100
48) Methyl methacrylate	7.678	41	138167	52.438	ug/l	100
49) 1,4-Dioxane	7.647	88	29496	1107.698	ug/l	100
51) 4-Methyl-2-Pentanone	8.562	43	784978	267.650	ug/l	100
52) Toluene	8.702	92	288853	51.244	ug/l	100
53) t-1,3-Dichloropropene	8.964	75	190282	53.027	ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	200859	52.369	ug/l	100
55) 1,1,2-Trichloroethane	9.135	97	112837	51.915	ug/l	100
56) Ethyl methacrylate	9.104	69	184087	53.930	ug/l	100
57) 1,3-Dichloropropane	9.293	76	195989	52.492	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	418707	256.309	ug/l	100
59) 2-Hexanone	9.415	43	553313	262.683	ug/l	100
60) Dibromochloromethane	9.506	129	133737	53.401	ug/l	100
61) 1,2-Dibromoethane	9.592	107	116462	52.607	ug/l	100
64) Tetrachloroethene	9.257	164	88149	50.074	ug/l	100
65) Chlorobenzene	10.061	112	317982	51.833	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.147	131	111849	52.835	ug/l	100
67) Ethyl Benzene	10.177	91	550610	52.017	ug/l	100
68) m/p-Xylenes	10.287	106	412932	104.809	ug/l	100
69) o-Xylene	10.622	106	202291	53.084	ug/l	100
70) Styrene	10.640	104	350654	52.515	ug/l	100
71) Bromoform	10.781	173	84485	53.447	ug/l #	100
73) Isopropylbenzene	10.945	105	516891	53.227	ug/l	100
74) N-amyl acetate	10.829	43	237846	53.710	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.195	83	156454	53.251	ug/l	100
76) 1,2,3-Trichloropropane	11.220	75	144074m	54.322	ug/l	
77) Bromobenzene	11.183	156	126174	52.754	ug/l	100
78) n-propylbenzene	11.287	91	612035	53.315	ug/l	100
79) 2-Chlorotoluene	11.348	91	372397	52.965	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	426989	53.518	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	52927	52.190	ug/l	100
82) 4-Chlorotoluene	11.439	91	438502	52.806	ug/l	100
83) tert-Butylbenzene	11.695	119	429107	52.539	ug/l	100
84) 1,2,4-Trimethylbenzene	11.732	105	427073	52.798	ug/l	100
85) sec-Butylbenzene	11.872	105	514442	53.029	ug/l	100
86) p-Isopropyltoluene	11.994	119	436704	53.172	ug/l	100
87) 1,3-Dichlorobenzene	11.951	146	232038	52.232	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	233975	51.316	ug/l	100
89) n-Butylbenzene	12.311	91	400997	52.766	ug/l	100
90) Hexachloroethane	12.518	117	75800	52.567	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	222993	52.688	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.921	75	32451	54.554	ug/l	100
93) 1,2,4-Trichlorobenzene	13.567	180	147670	53.685	ug/l	100
94) Hexachlorobutadiene	13.707	225	49061	52.510	ug/l	100
95) Naphthalene	13.756	128	452013	53.966	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	138978	54.316	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
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 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:13:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

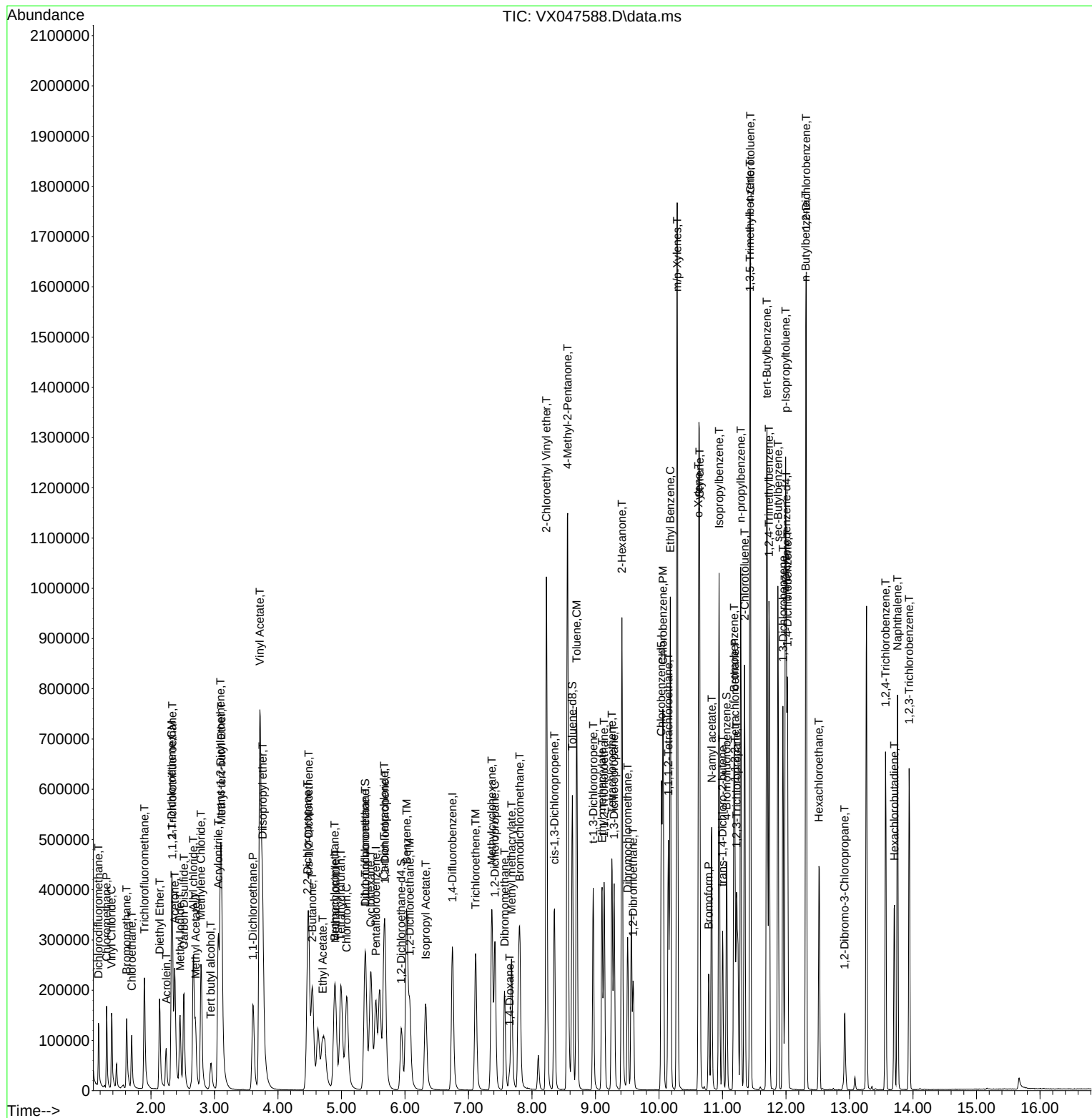
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

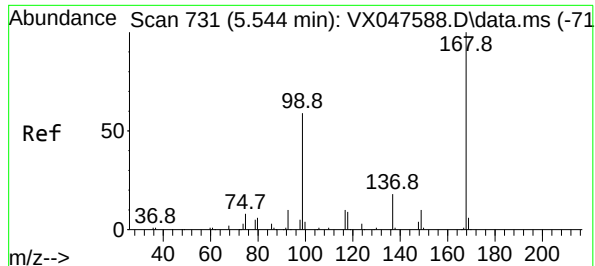
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:168 Resp: 17340

Ion Ratio Lower Upper

168 100

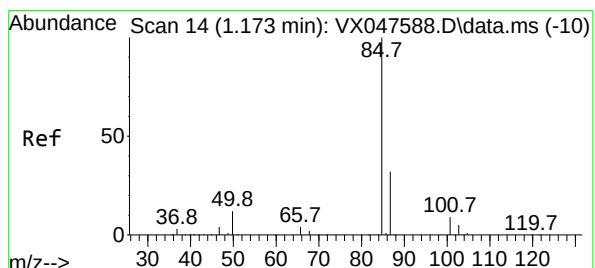
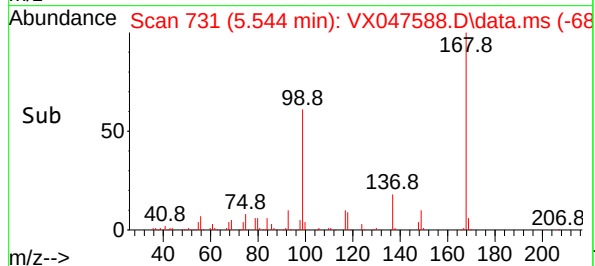
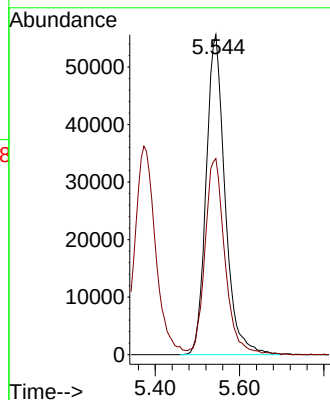
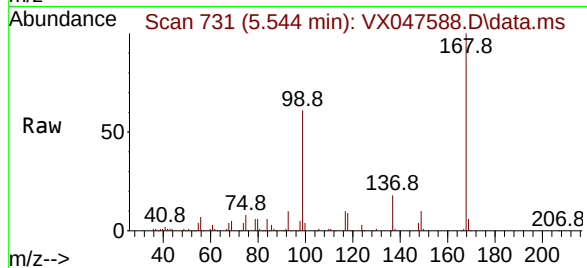
99 61.0 48.8 73.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#2

Dichlorodifluoromethane

Concen: 48.352 ug/l

RT: 1.173 min Scan# 14

Delta R.T. 0.000 min

Lab File: VX047588.D

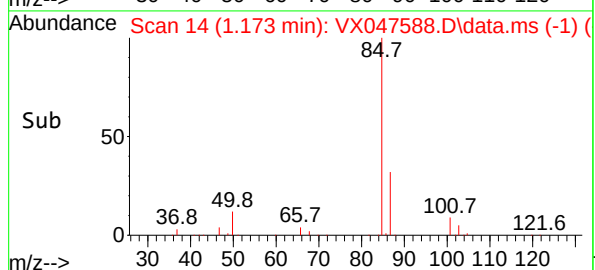
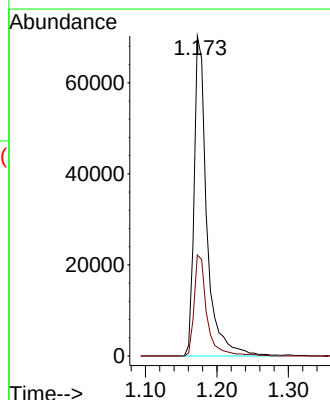
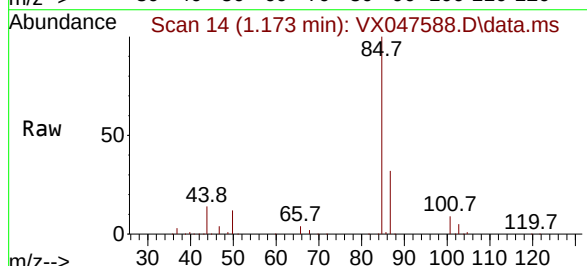
Acq: 16 Sep 2025 10:58

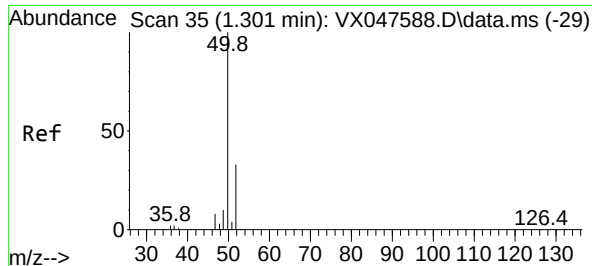
Tgt Ion: 85 Resp: 86824

Ion Ratio Lower Upper

85 100

87 31.5 15.8 47.3





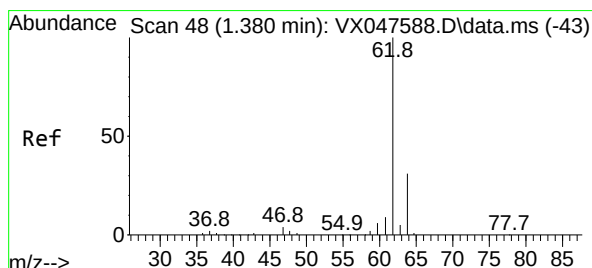
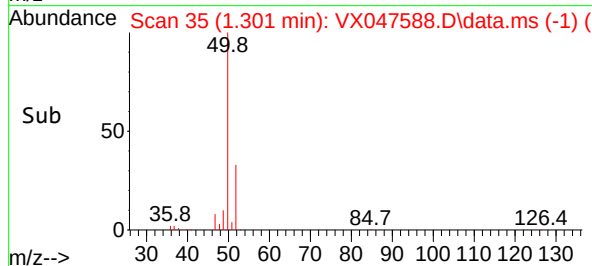
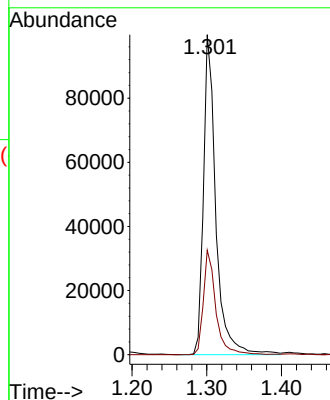
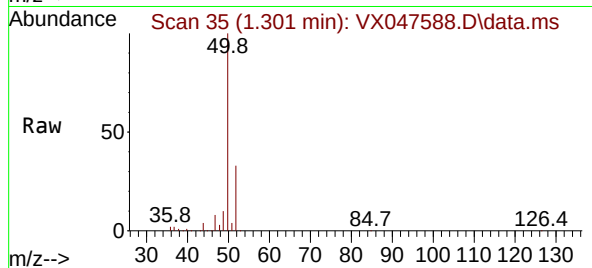
#3
Chloromethane
Concen: 48.594 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 114682
Ion Ratio Lower Upper
50 100
52 32.6 26.1 39.1

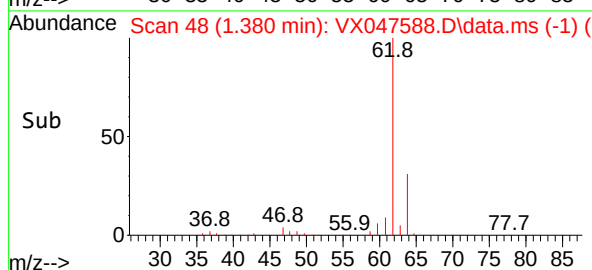
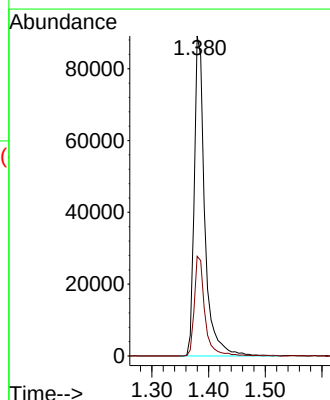
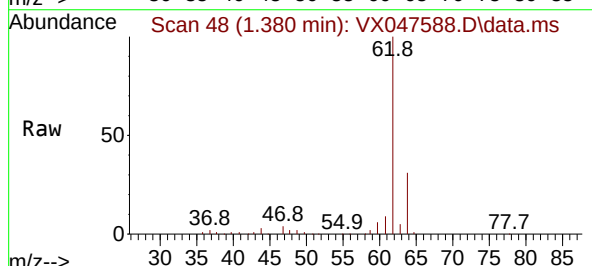
Manual Integrations
APPROVED

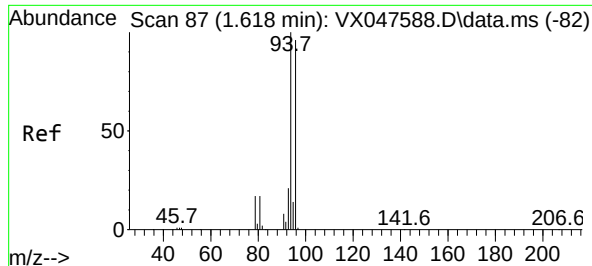
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#4
Vinyl Chloride
Concen: 49.635 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 62 Resp: 114666
Ion Ratio Lower Upper
62 100
64 31.1 24.9 37.3





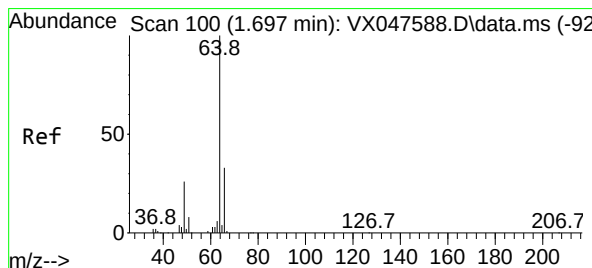
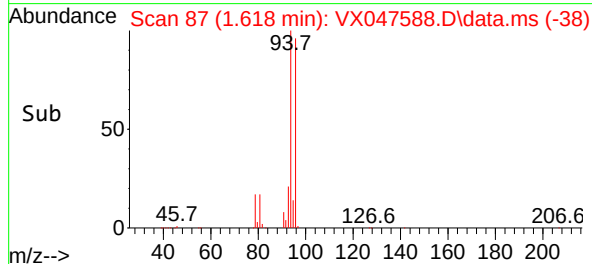
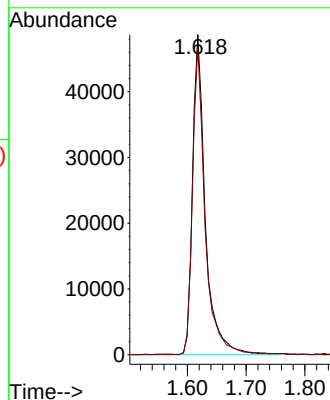
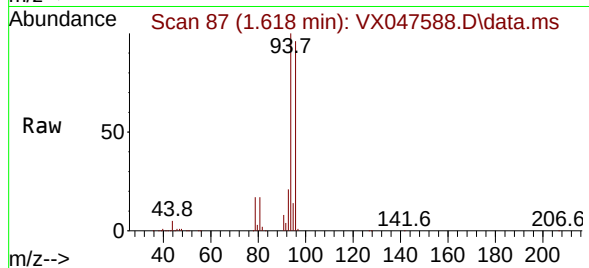
#5
Bromomethane
Concen: 50.216 ug/l
RT: 1.618 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 7356
Ion Ratio Lower Upper
94 100
96 95.8 76.6 115.0

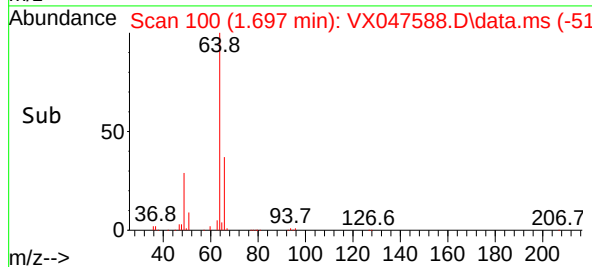
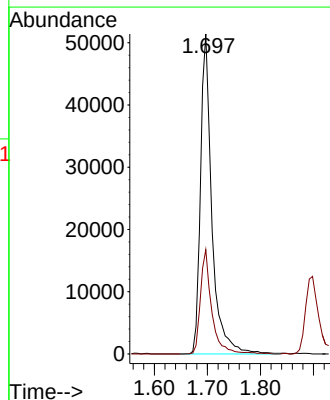
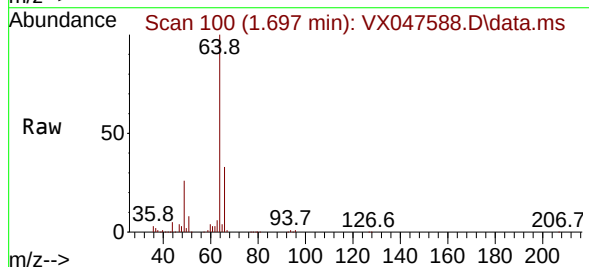
Manual Integrations
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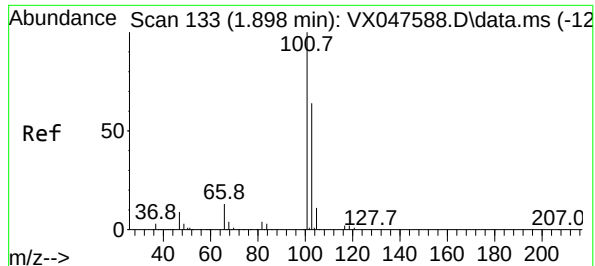
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#6
Chloroethane
Concen: 49.698 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 64 Resp: 76736
Ion Ratio Lower Upper
64 100
66 32.6 26.1 39.1





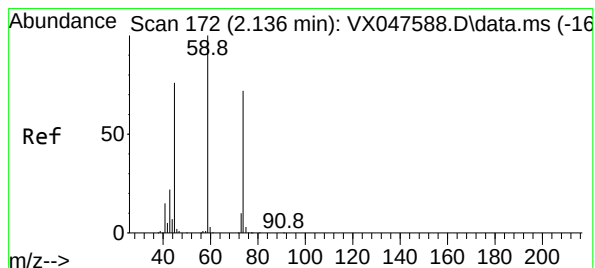
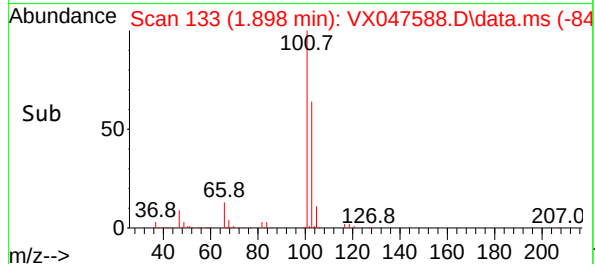
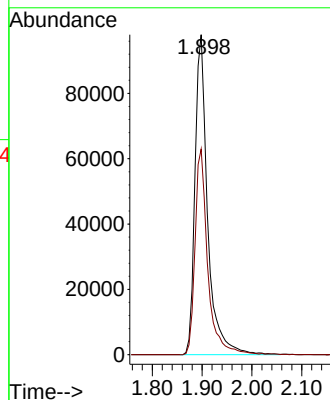
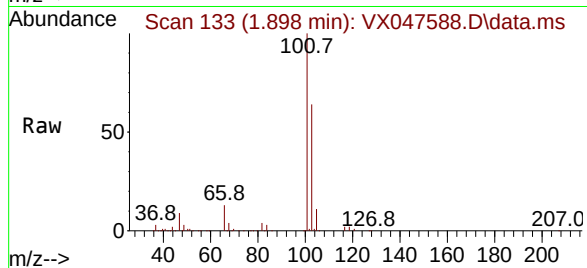
#7
Trichlorofluoromethane
Concen: 50.307 ug/l
RT: 1.898 min Scan# 133
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 17256
Ion Ratio Lower Upper
101 100
103 64.3 51.4 77.2

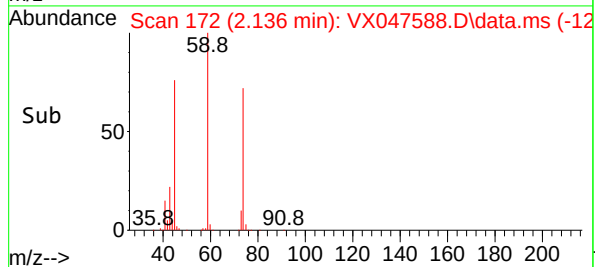
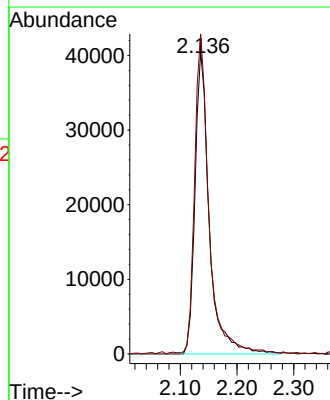
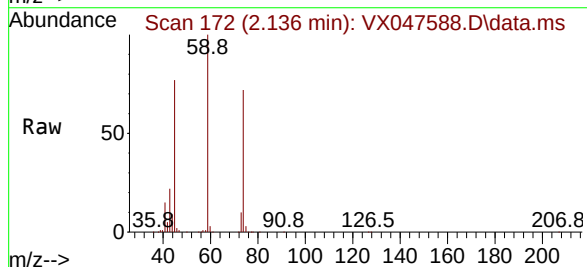
Manual Integrations
APPROVED

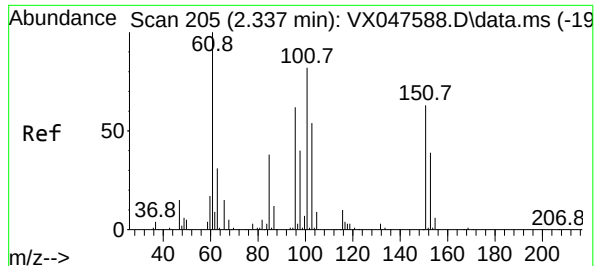
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#8
Diethyl Ether
Concen: 50.510 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 74 Resp: 70874
Ion Ratio Lower Upper
74 100
45 104.5 52.3 156.8





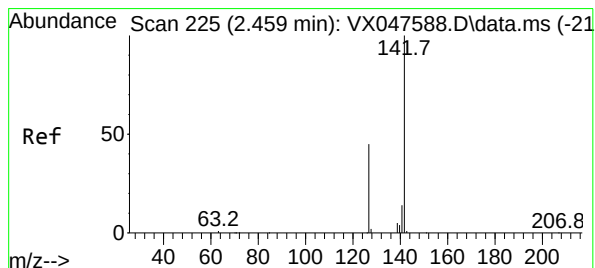
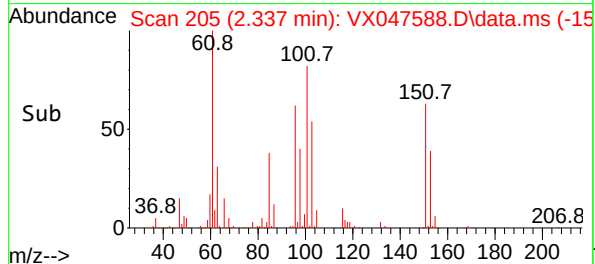
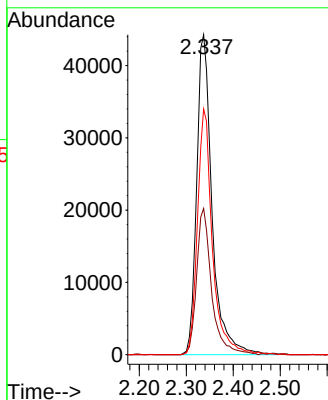
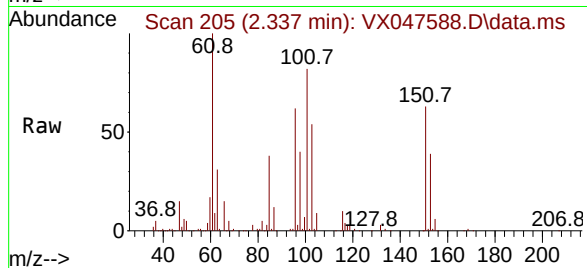
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.445 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 101178
Ion Ratio Lower Upper
101 100
85 44.4 35.5 53.3
151 74.2 59.4 89.0

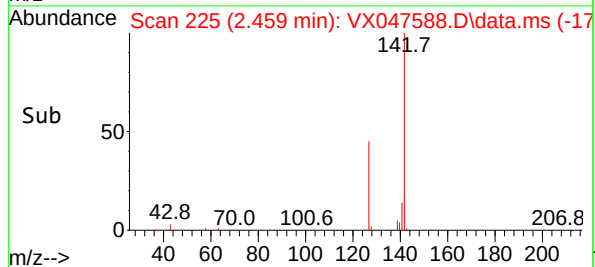
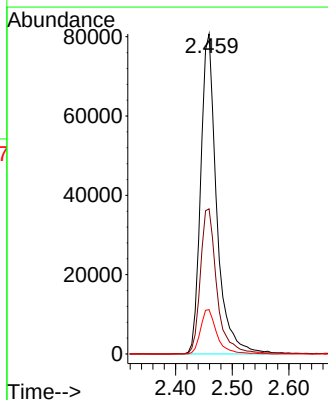
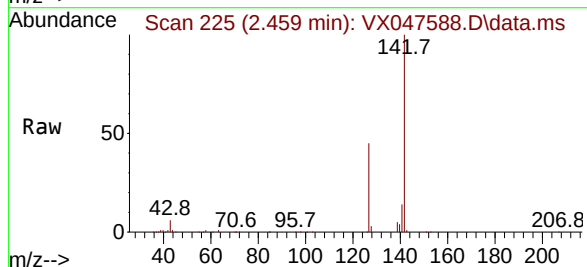
Manual Integrations
APPROVED

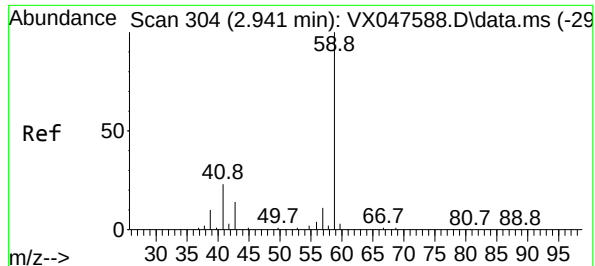
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#10
Methyl Iodide
Concen: 50.525 ug/l
RT: 2.459 min Scan# 225
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:142 Resp: 158046
Ion Ratio Lower Upper
142 100
127 46.5 37.2 55.8
141 14.2 11.4 17.0





#11

Tert butyl alcohol

Concen: 251.232 ug/l

RT: 2.941 min Scan# 304

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 7723

Ion Ratio Lower Upper

59 100

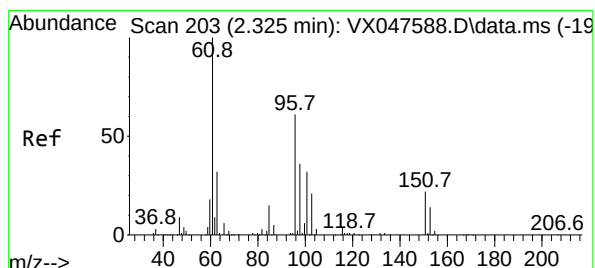
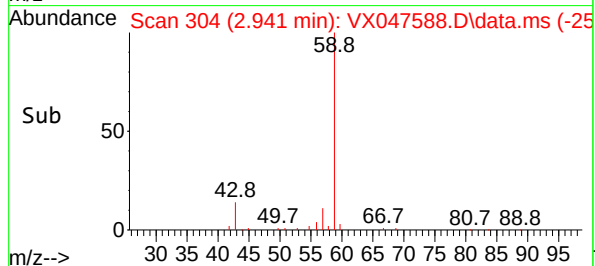
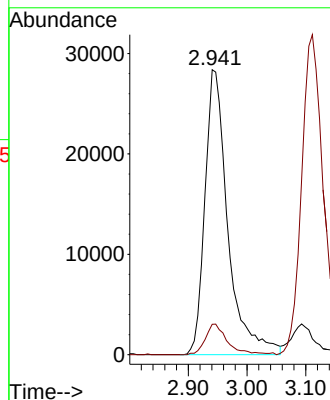
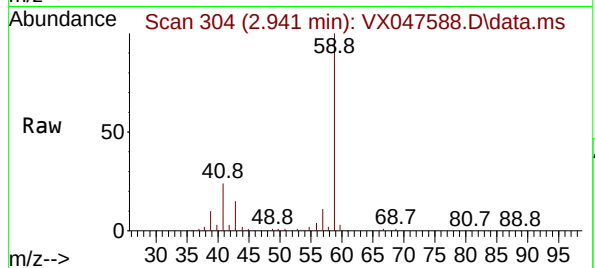
57 10.4 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#12

1,1-Dichloroethene

Concen: 50.831 ug/l

RT: 2.325 min Scan# 203

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

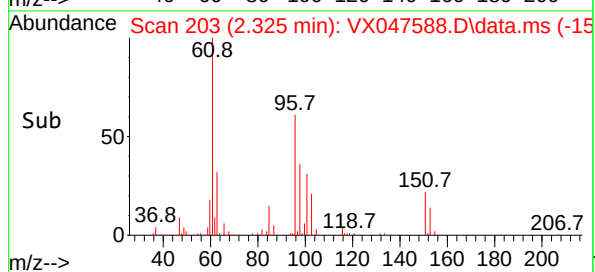
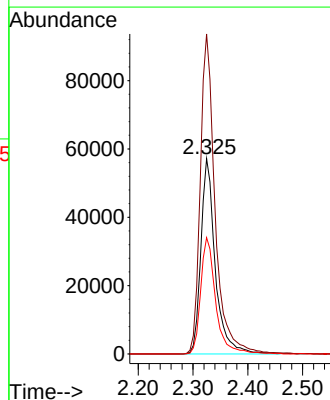
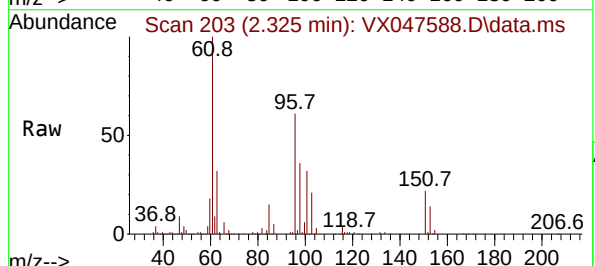
Tgt Ion: 96 Resp: 104724

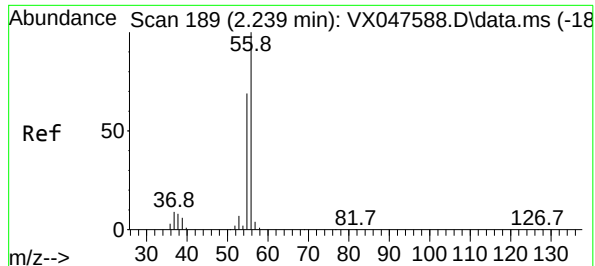
Ion Ratio Lower Upper

96 100

61 163.8 131.0 196.6

98 59.6 47.7 71.5





#13

Acrolein

Concen: 249.645 ug/l

RT: 2.239 min Scan# 189

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 7072

Ion Ratio Lower Upper

56 100

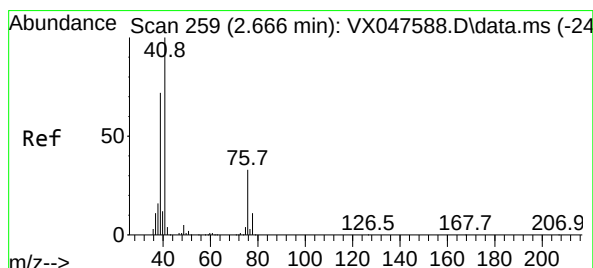
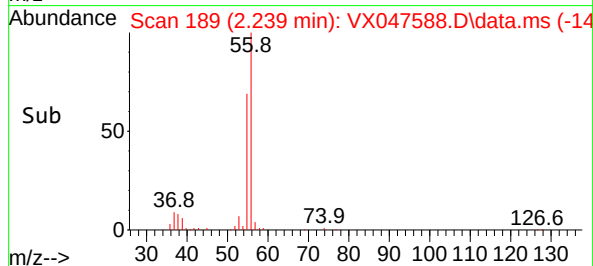
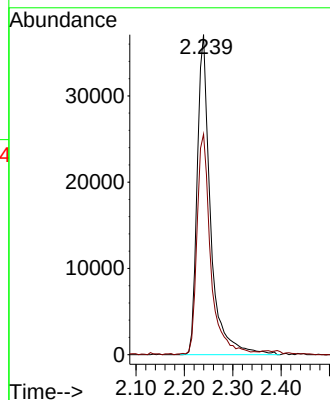
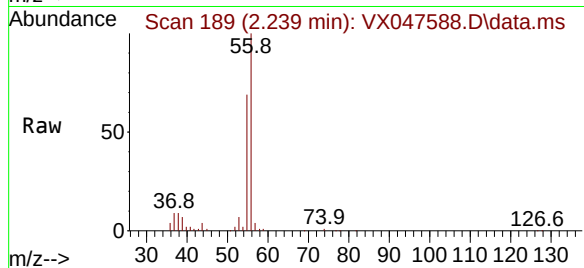
55 71.5 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#14

Allyl chloride

Concen: 49.396 ug/l

RT: 2.666 min Scan# 259

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

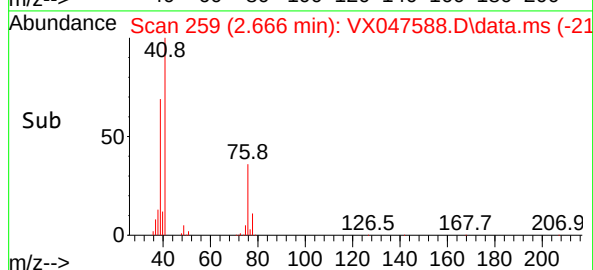
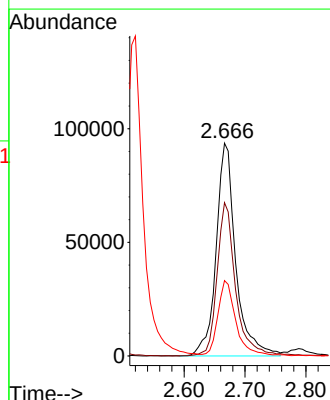
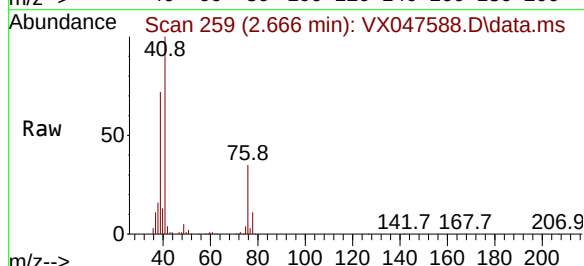
Tgt Ion: 41 Resp: 210001

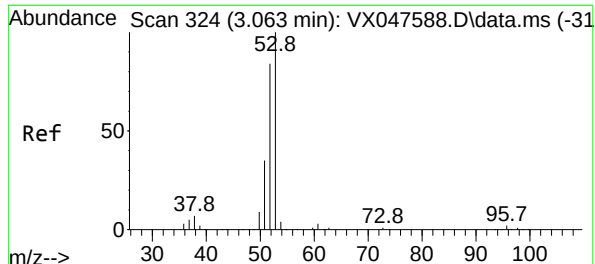
Ion Ratio Lower Upper

41 100

39 68.4 54.7 82.1

76 32.1 25.7 38.5





#15

Acrylonitrile

Concen: 264.027 ug/l

RT: 3.063 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 53 Resp: 30064

Ion Ratio Lower Upper

53 100

52 83.0 66.4 99.6

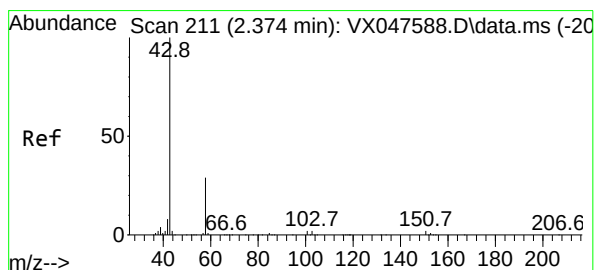
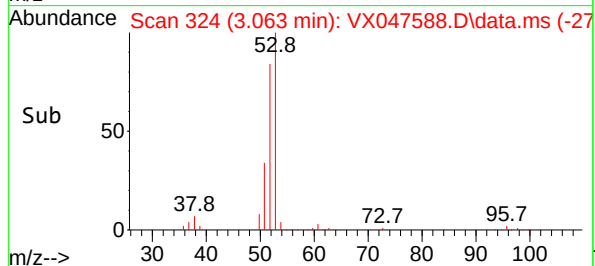
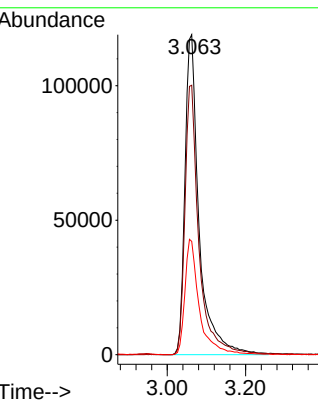
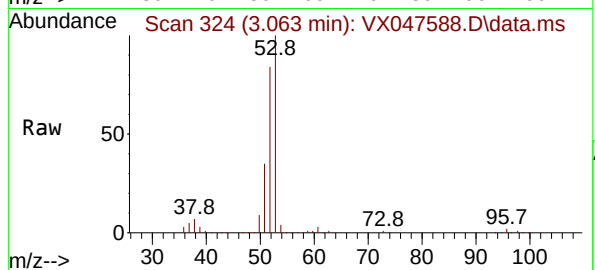
51 36.9 29.5 44.3

Manual Integrations

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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#16

Acetone

Concen: 229.193 ug/l

RT: 2.374 min Scan# 211

Delta R.T. 0.000 min

Lab File: VX047588.D

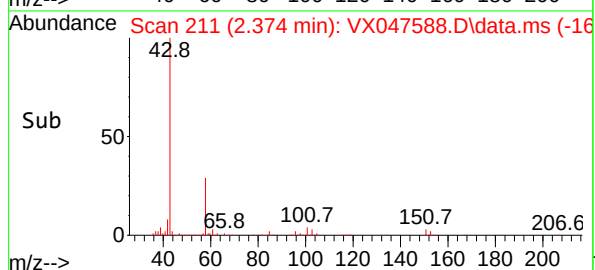
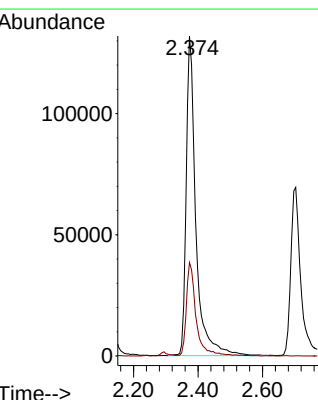
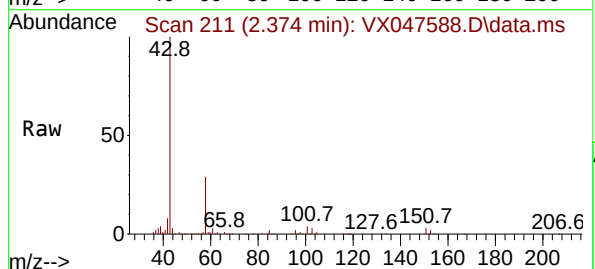
Acq: 16 Sep 2025 10:58

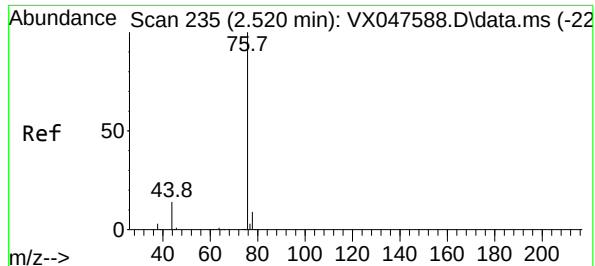
Tgt Ion: 43 Resp: 275065

Ion Ratio Lower Upper

43 100

58 29.2 23.4 35.0





#17

Carbon Disulfide

Concen: 48.133 ug/l

RT: 2.520 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 271480

Ion Ratio Lower Upper

76 100

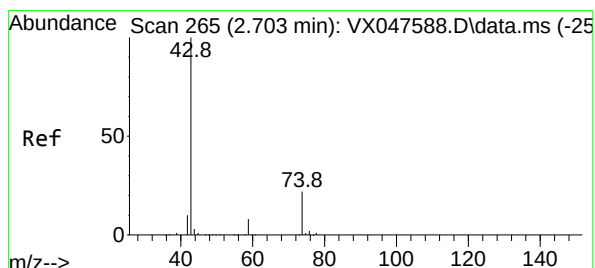
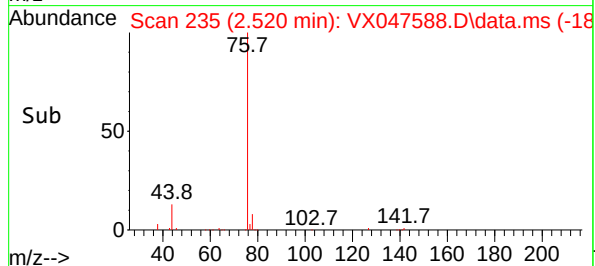
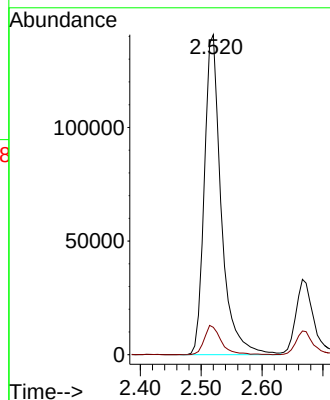
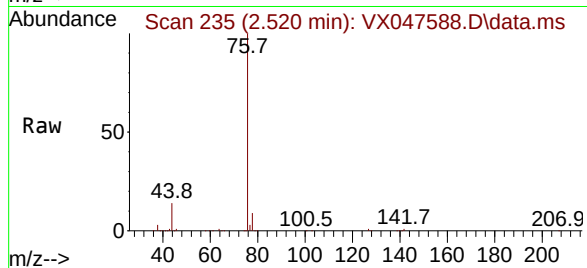
78 8.5 6.8 10.2

Manual Integrations

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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#18

Methyl Acetate

Concen: 56.897 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX047588.D

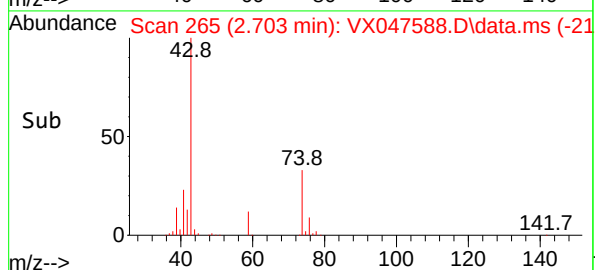
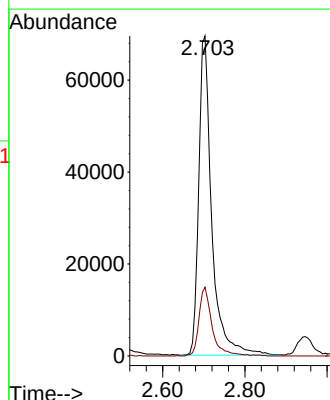
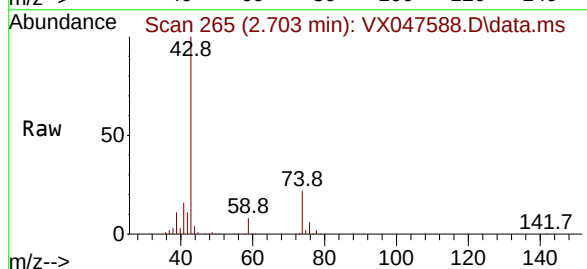
Acq: 16 Sep 2025 10:58

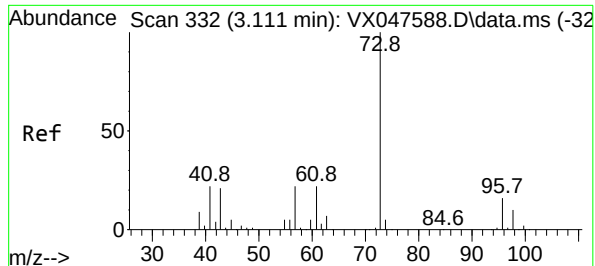
Tgt Ion: 43 Resp: 151968

Ion Ratio Lower Upper

43 100

74 21.8 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 51.804 ug/l

RT: 3.111 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 38960

Ion Ratio Lower Upper

73 100

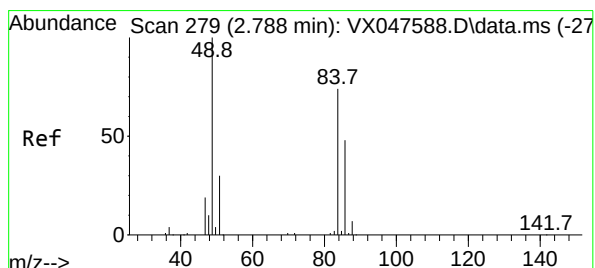
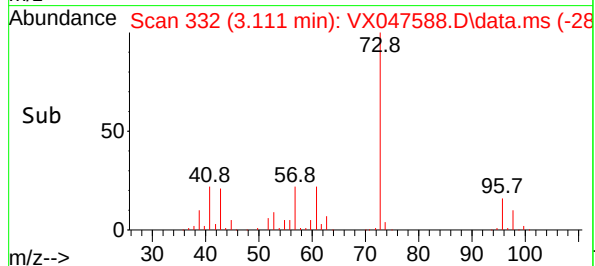
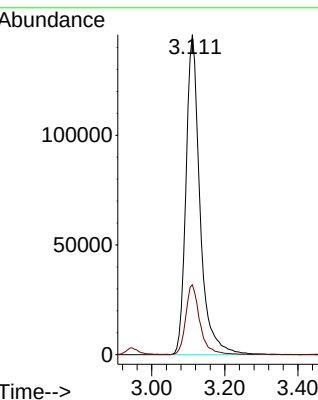
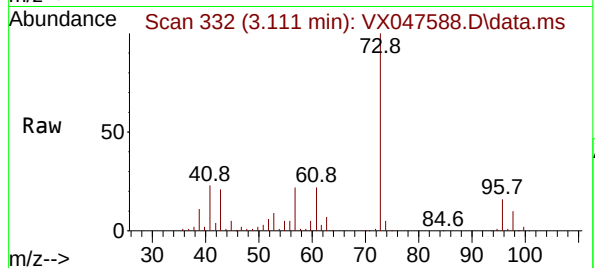
57 21.8 17.4 26.2

Manual Integrations

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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#20

Methylene Chloride

Concen: 49.798 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Tgt Ion: 84 Resp: 126506

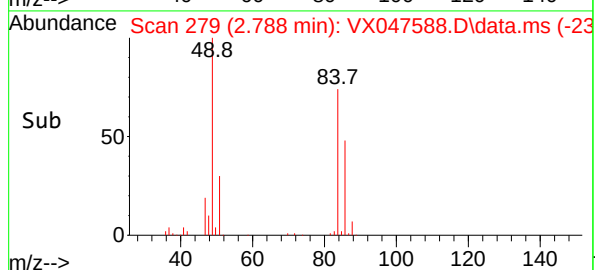
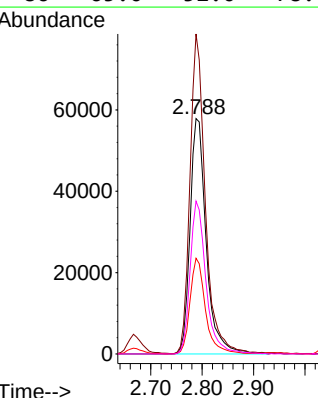
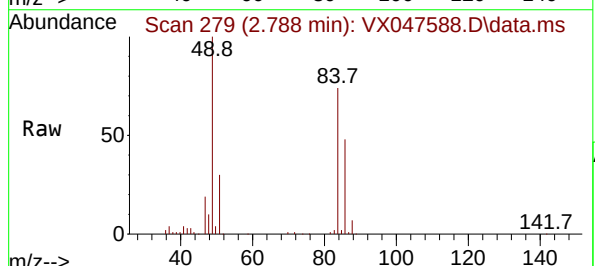
Ion Ratio Lower Upper

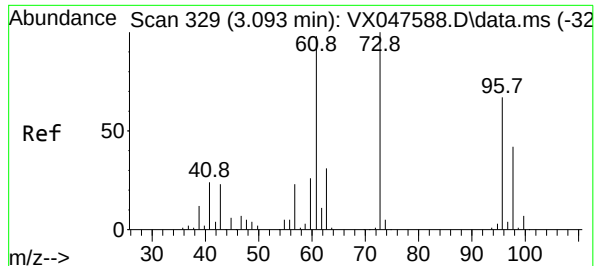
84 100

49 135.7 108.6 162.8

51 40.7 32.6 48.8

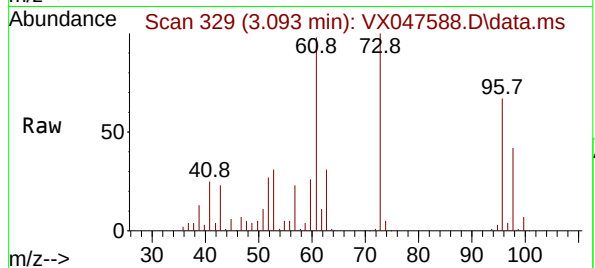
86 65.0 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 50.743 ug/l
RT: 3.093 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

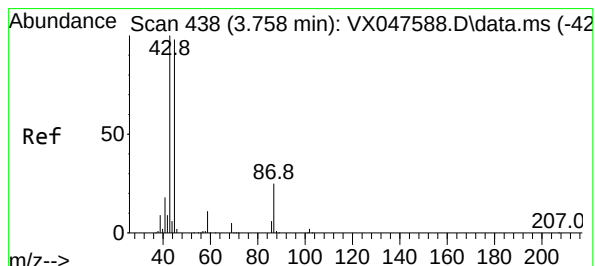
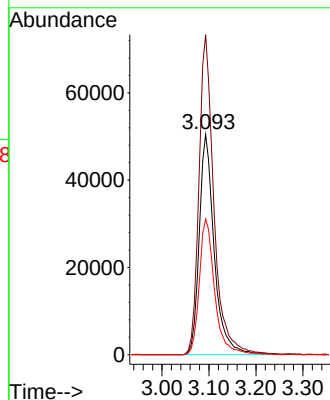
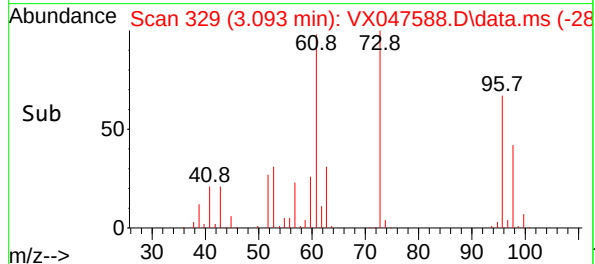
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 96 Resp: 11255
Ion Ratio Lower Upper
96 100
61 145.2 116.2 174.2
98 61.6 49.3 73.9

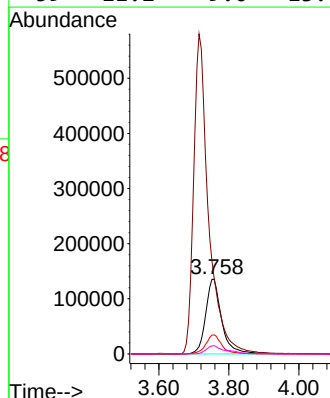
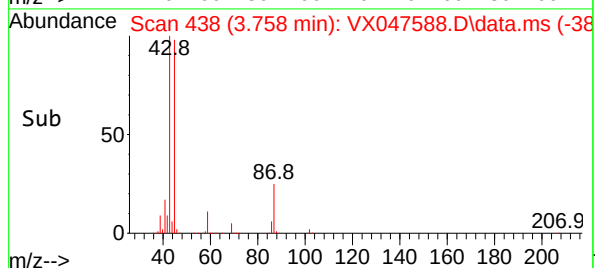
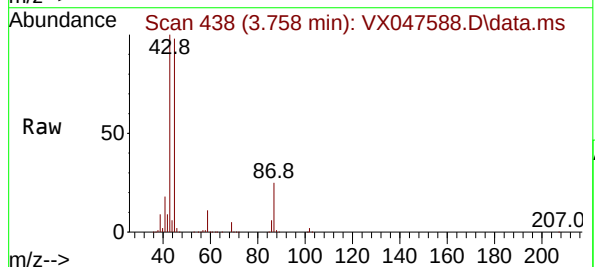
Manual Integrations
APPROVED

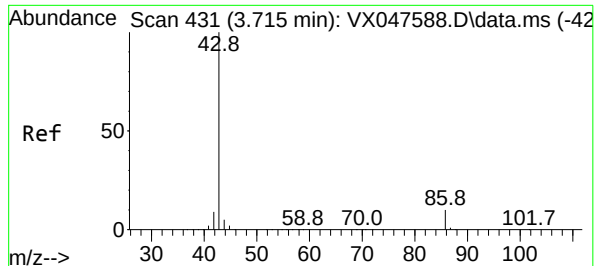
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#22
Diisopropyl ether
Concen: 52.131 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 45 Resp: 429524
Ion Ratio Lower Upper
45 100
43 101.2 81.0 121.4
87 25.4 20.3 30.5
59 11.2 9.0 13.4





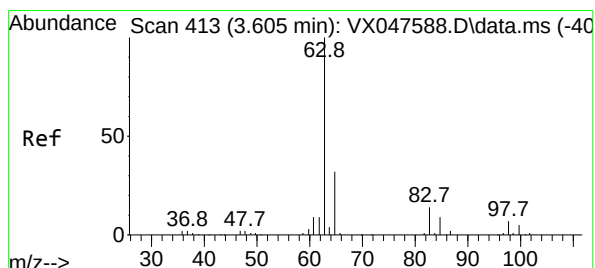
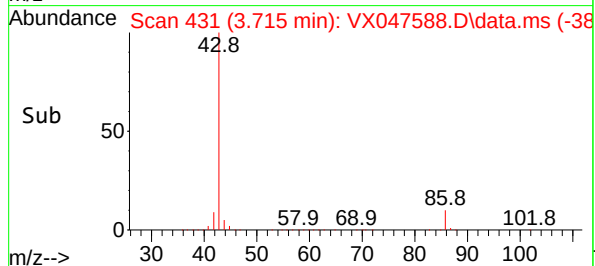
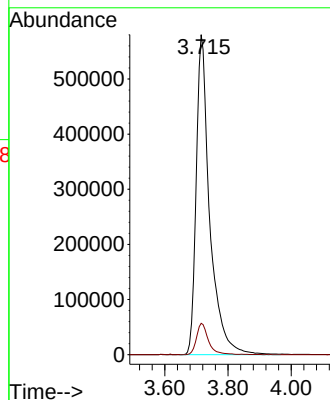
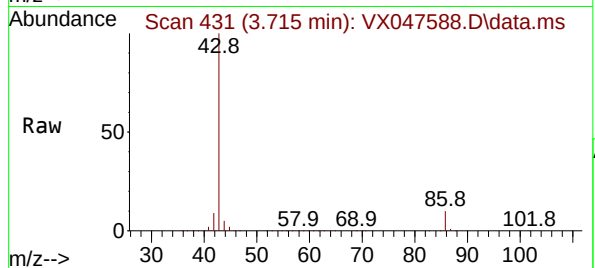
#23
Vinyl Acetate
Concen: 261.852 ug/l
RT: 3.715 min Scan# 411
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 172673
Ion Ratio Lower Upper
43 100
86 9.8 7.8 11.8

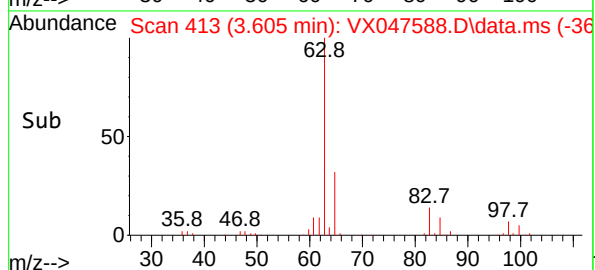
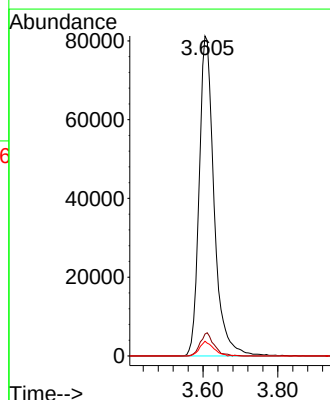
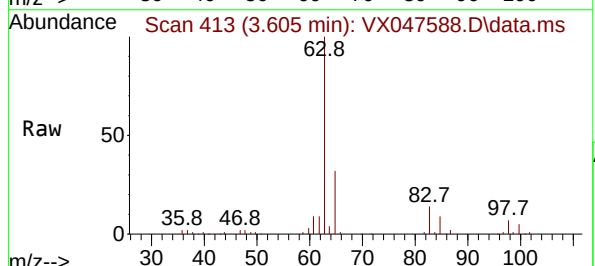
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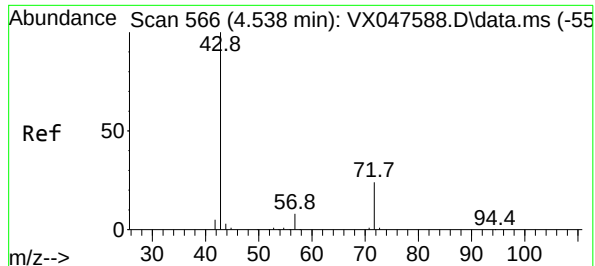
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#24
1,1-Dichloroethane
Concen: 51.338 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 63 Resp: 224824
Ion Ratio Lower Upper
63 100
98 7.5 3.8 11.2
100 4.6 2.3 6.9





#25

2-Butanone

Concen: 254.060 ug/l

RT: 4.538 min Scan# 5

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 38033

Ion Ratio Lower Upper

43 100

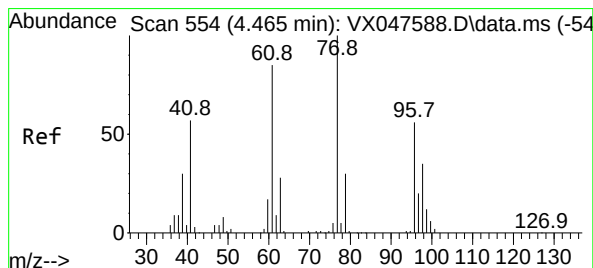
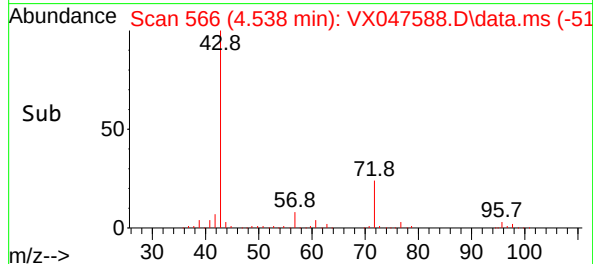
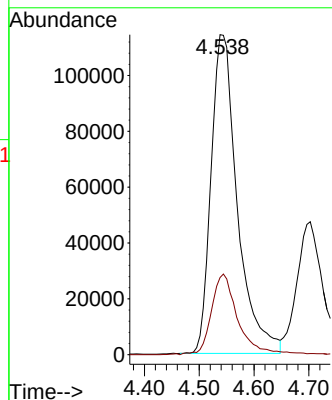
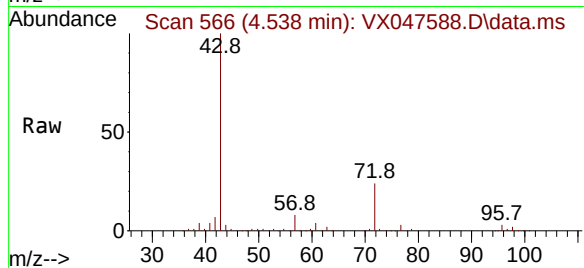
72 25.1 20.1 30.1

Manual Integrations

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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#26

2,2-Dichloropropane

Concen: 50.888 ug/l

RT: 4.465 min Scan# 554

Delta R.T. 0.000 min

Lab File: VX047588.D

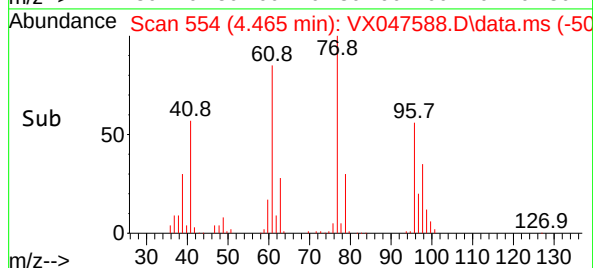
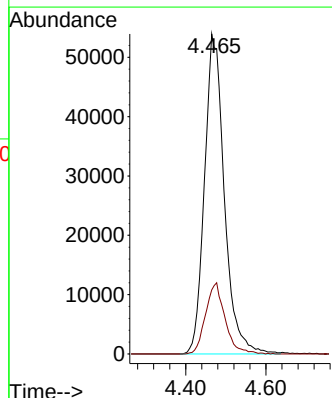
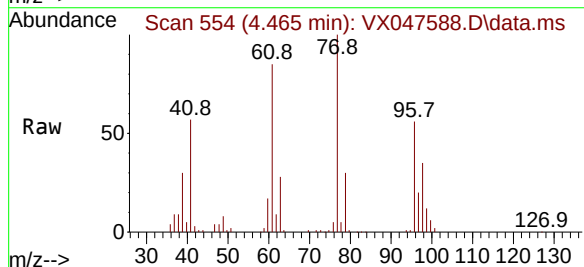
Acq: 16 Sep 2025 10:58

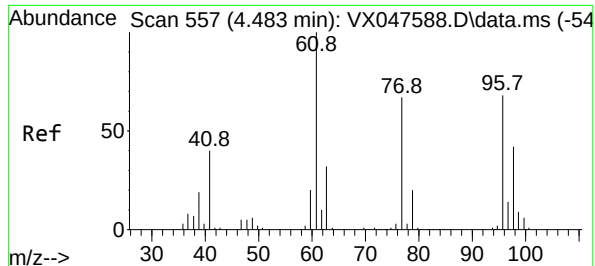
Tgt Ion: 77 Resp: 185247

Ion Ratio Lower Upper

77 100

97 21.8 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 51.576 ug/l

RT: 4.483 min Scan# 557

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 14010

Ion Ratio Lower Upper

96 100

61 151.6 0.0 303.2

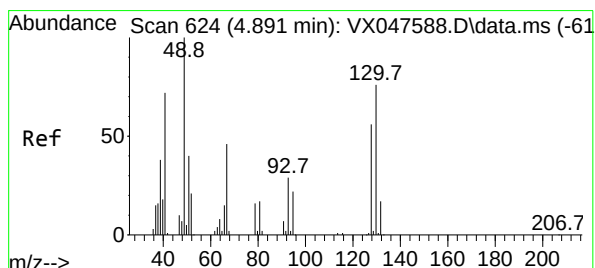
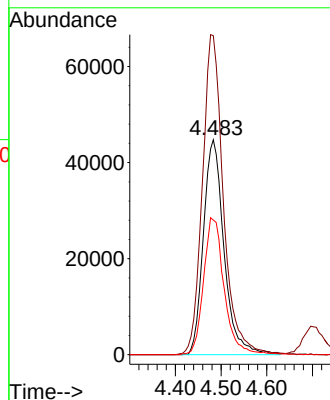
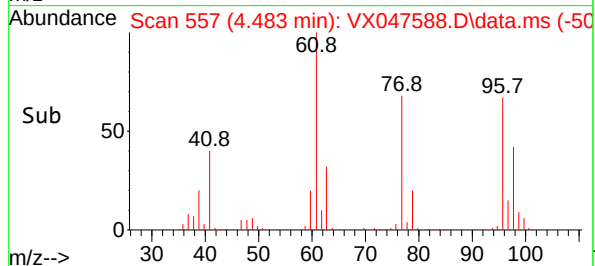
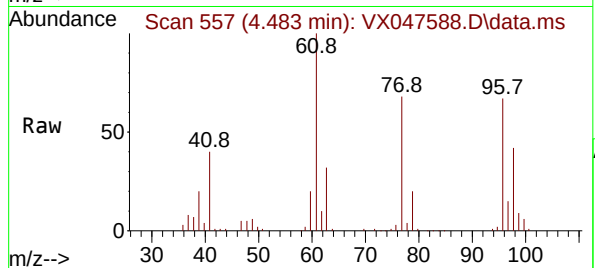
98 63.9 0.0 127.8

Manual Integrations

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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#28

Bromochloromethane

Concen: 52.301 ug/l

RT: 4.891 min Scan# 624

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

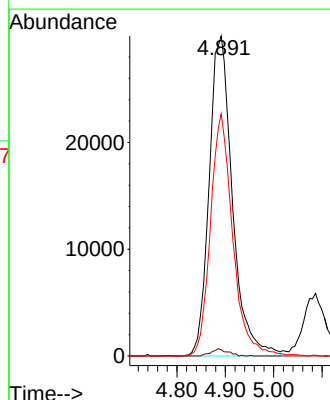
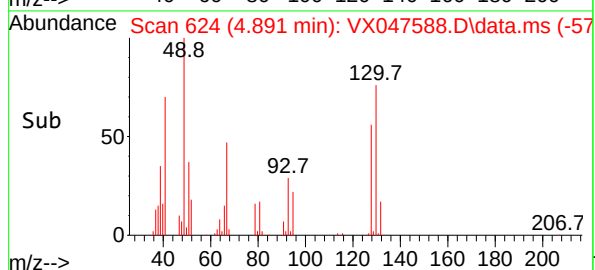
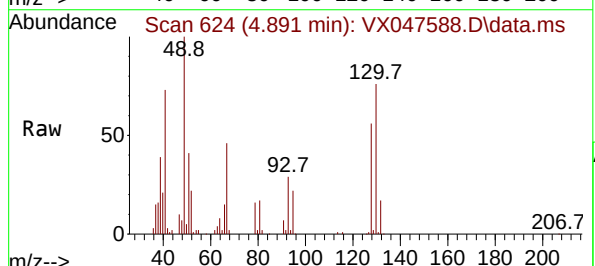
Tgt Ion: 49 Resp: 99991

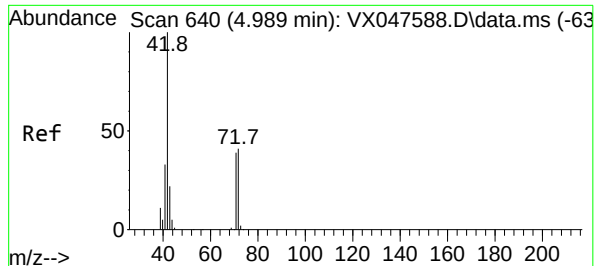
Ion Ratio Lower Upper

49 100

129 1.6 0.0 3.2

130 72.3 57.8 86.8





#29

Tetrahydrofuran

Concen: 265.026 ug/l

RT: 4.989 min Scan# 640

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 23867

Ion Ratio Lower Upper

42 100

72 42.7 34.2 51.2

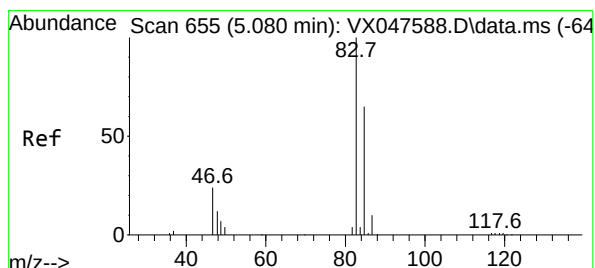
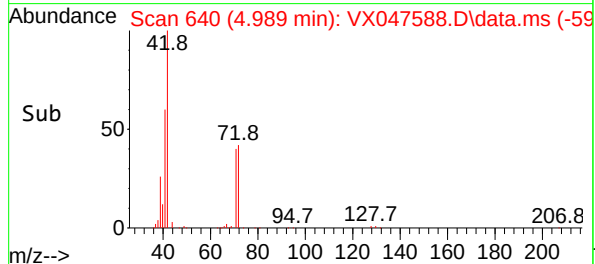
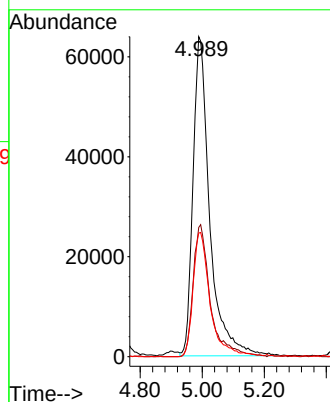
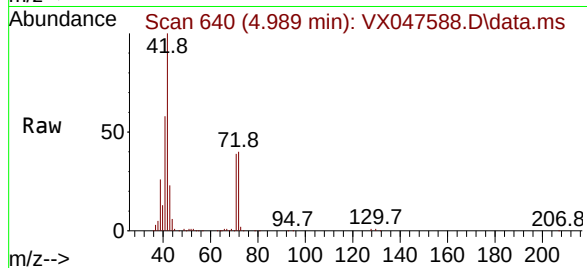
71 39.9 31.9 47.9

Manual Integrations

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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

Chloroform

Concen: 51.844 ug/l

RT: 5.080 min Scan# 655

Delta R.T. 0.000 min

Lab File: VX047588.D

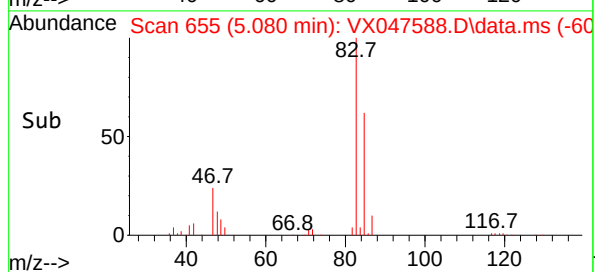
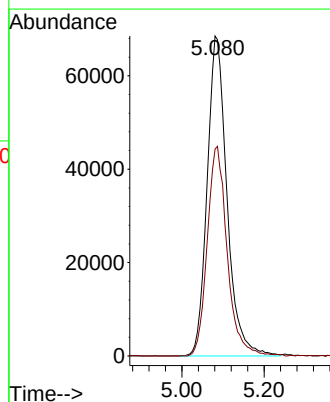
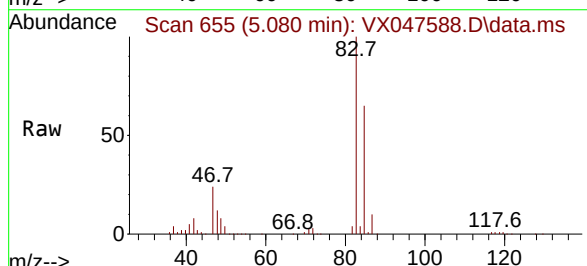
Acq: 16 Sep 2025 10:58

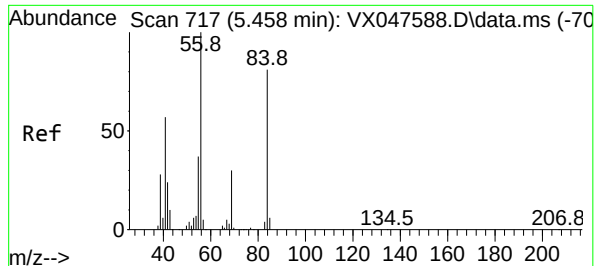
Tgt Ion: 83 Resp: 229430

Ion Ratio Lower Upper

83 100

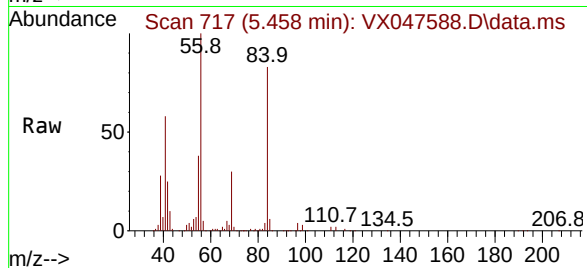
85 64.7 51.8 77.6





#31
Cyclohexane
Concen: 48.952 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

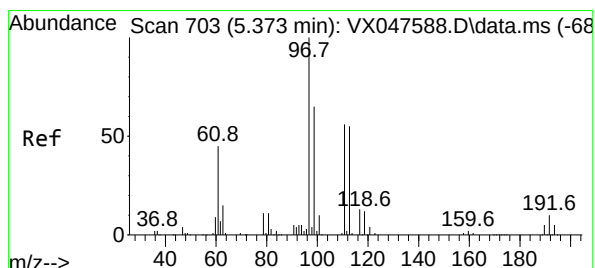
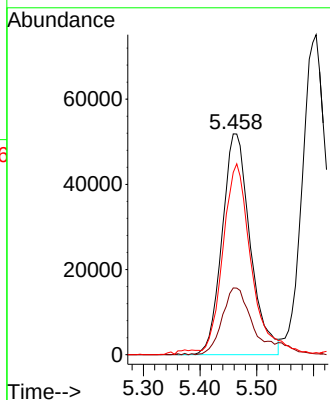
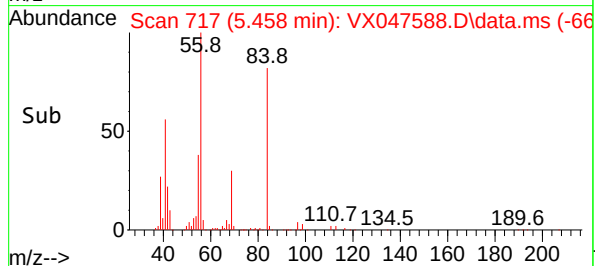
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 56 Resp: 178540
Ion Ratio Lower Upper
56 100
69 29.8 23.8 35.8
84 80.8 64.6 97.0

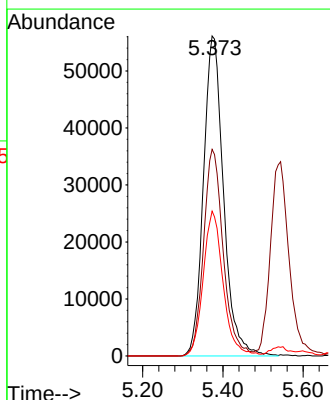
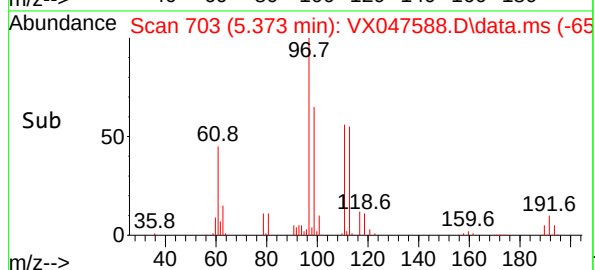
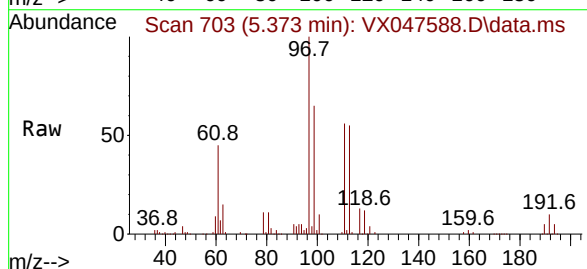
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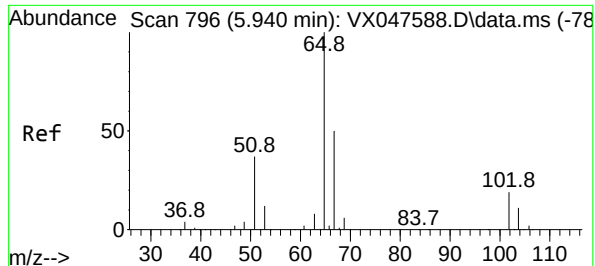
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#32
1,1,1-Trichloroethane
Concen: 52.058 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 97 Resp: 195407
Ion Ratio Lower Upper
97 100
99 63.3 50.6 76.0
61 44.8 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 48.404 ug/l

RT: 5.940 min Scan# 796

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 133600

Ion Ratio Lower Upper

65 100

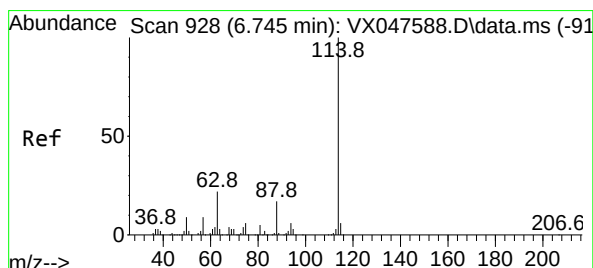
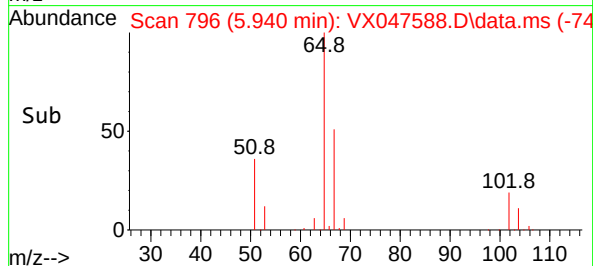
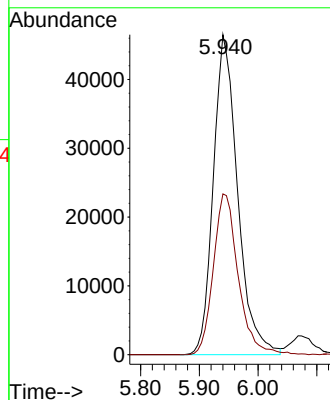
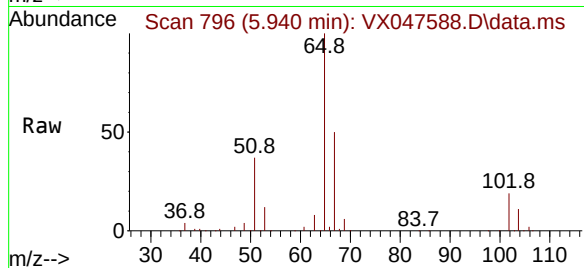
67 51.5 0.0 103.0

Manual Integrations

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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

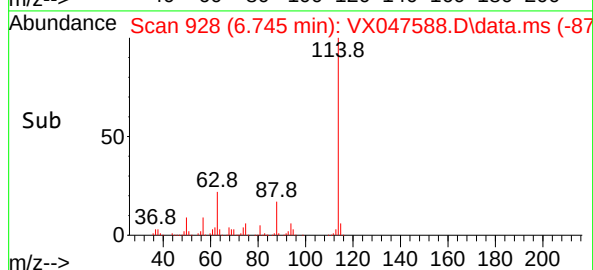
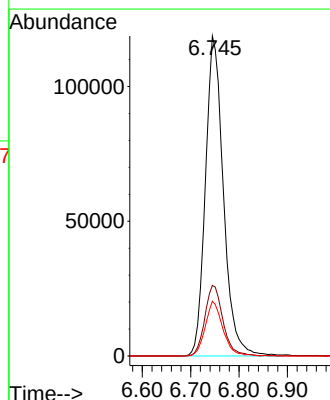
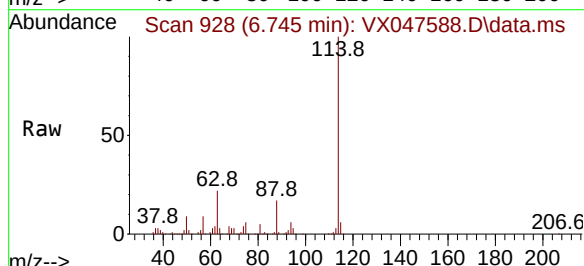
Tgt Ion:114 Resp: 307383

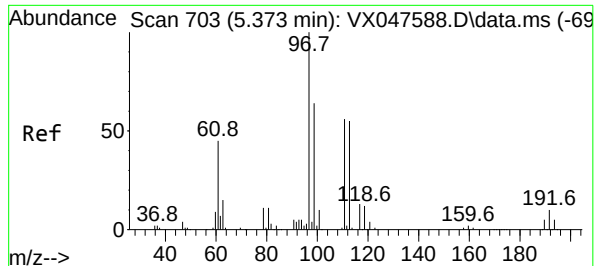
Ion Ratio Lower Upper

114 100

63 22.0 0.0 44.0

88 17.1 0.0 34.2





#35

Dibromofluoromethane

Concen: 49.298 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 113 Resp: 10162

Ion Ratio Lower Upper

113 100

111 101.1 80.9 121.3

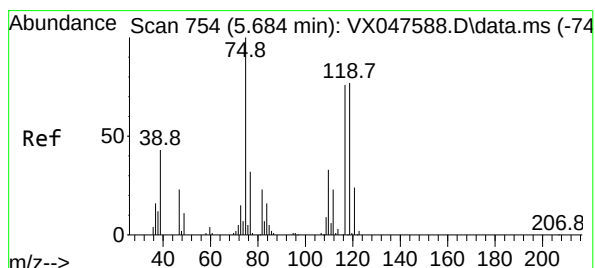
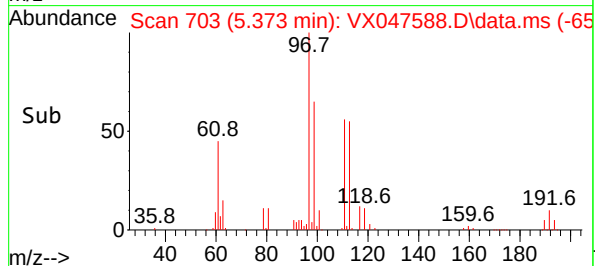
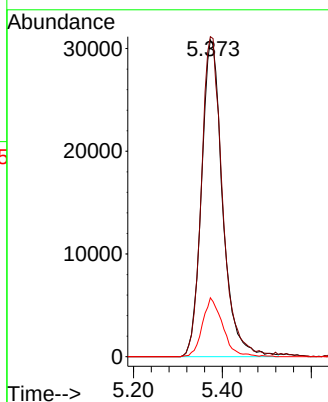
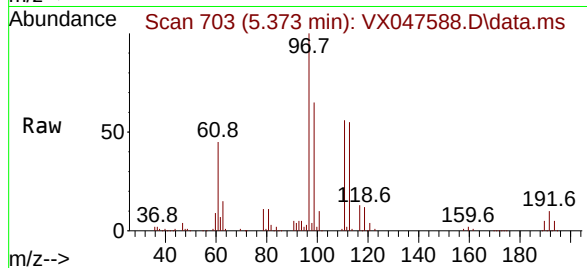
192 17.8 14.2 21.4

Manual Integrations

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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#36

1,1-Dichloropropene

Concen: 49.729 ug/l

RT: 5.684 min Scan# 754

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

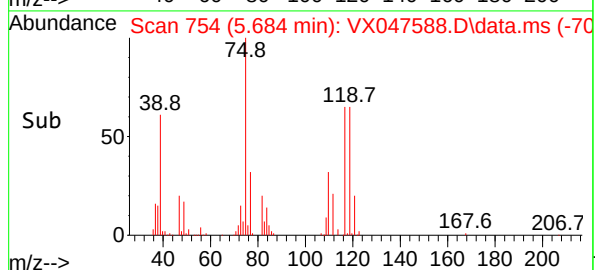
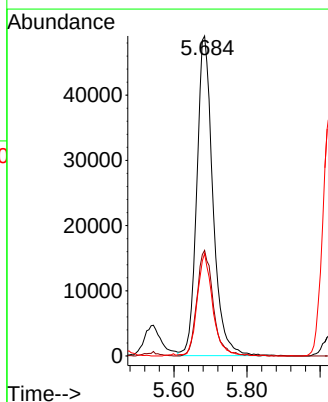
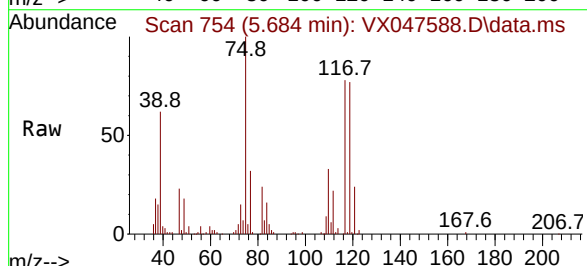
Tgt Ion: 75 Resp: 149800

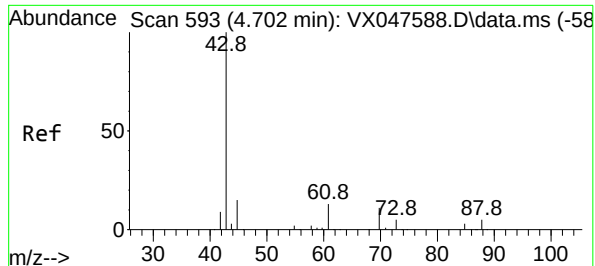
Ion Ratio Lower Upper

75 100

110 33.4 16.7 50.1

77 30.4 24.3 36.5





#37

Ethyl Acetate

Concen: 50.687 ug/l

RT: 4.702 min Scan# 593

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 16348

Ion Ratio Lower Upper

43 100

61 12.3 9.8 14.8

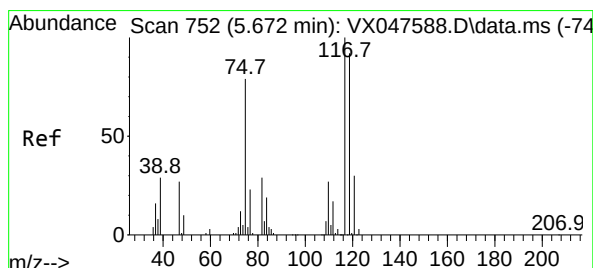
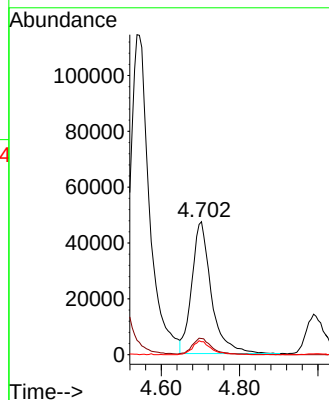
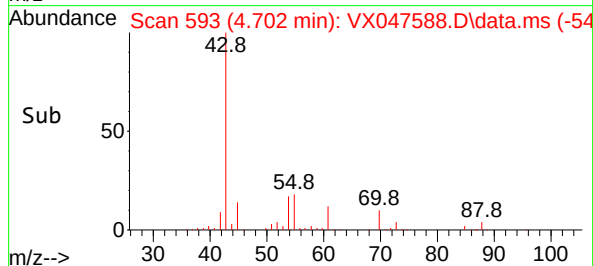
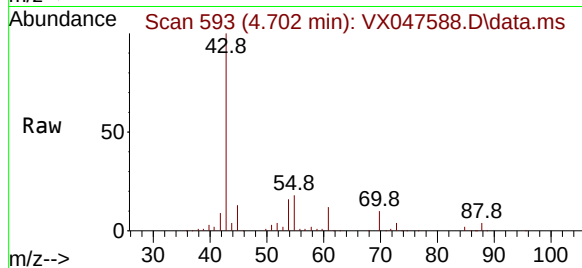
70 9.9 7.9 11.9

Manual Integrations

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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#38

Carbon Tetrachloride

Concen: 50.637 ug/l

RT: 5.672 min Scan# 752

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

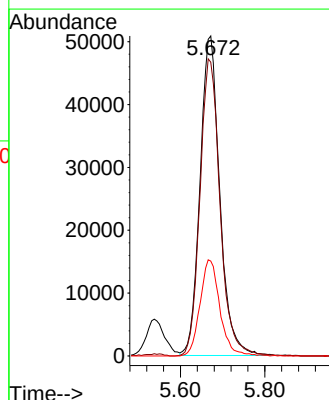
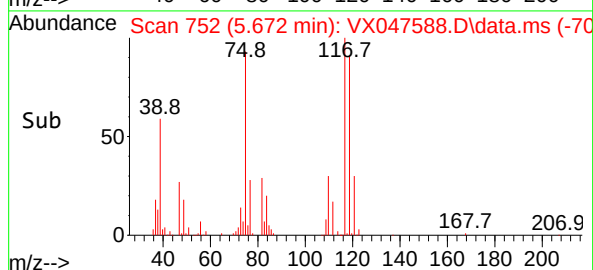
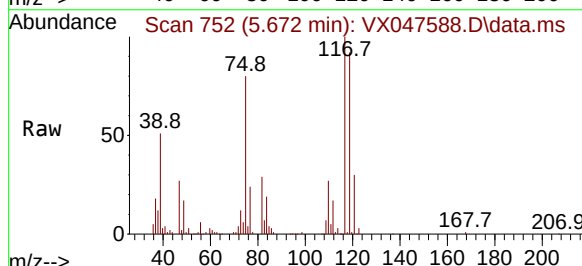
Tgt Ion:117 Resp: 165730

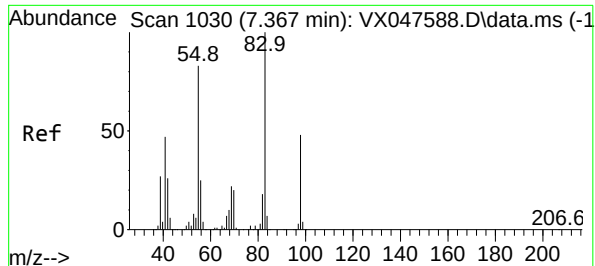
Ion Ratio Lower Upper

117 100

119 91.8 73.4 110.2

121 29.7 23.8 35.6





#39

Methylcyclohexane

Concen: 50.773 ug/l

RT: 7.367 min Scan# 1030

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 173610

Ion Ratio Lower Upper

83 100

55 83.0 66.4 99.6

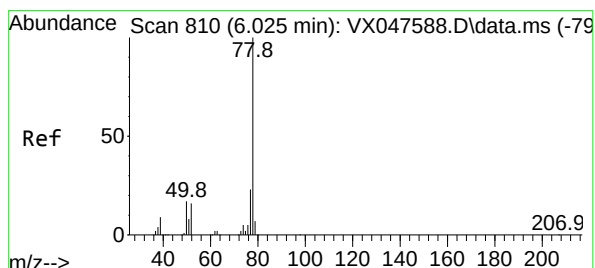
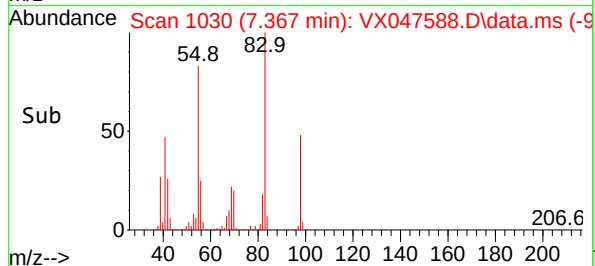
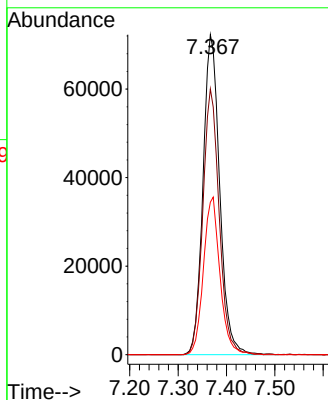
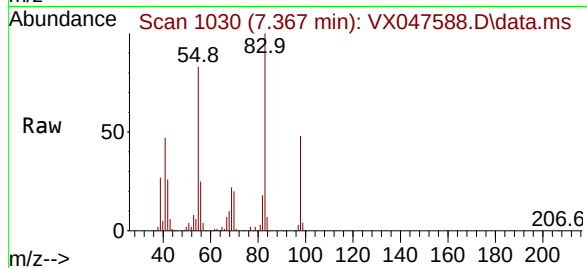
98 47.6 38.1 57.1

Manual Integrations

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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#40

Benzene

Concen: 51.167 ug/l

RT: 6.025 min Scan# 810

Delta R.T. 0.000 min

Lab File: VX047588.D

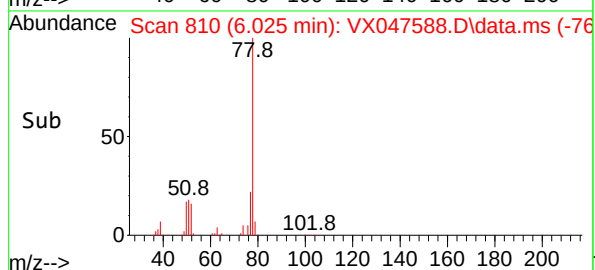
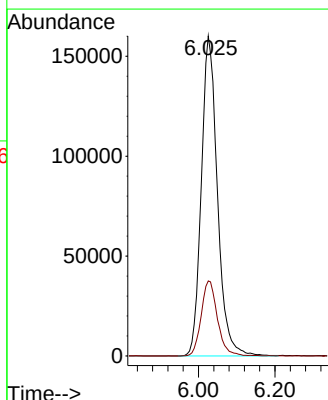
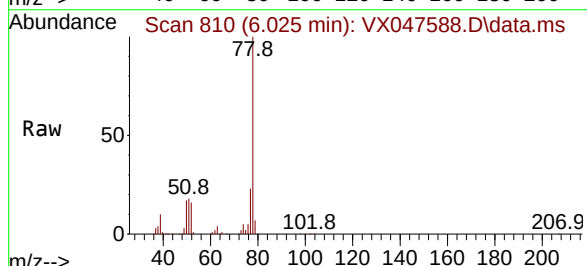
Acq: 16 Sep 2025 10:58

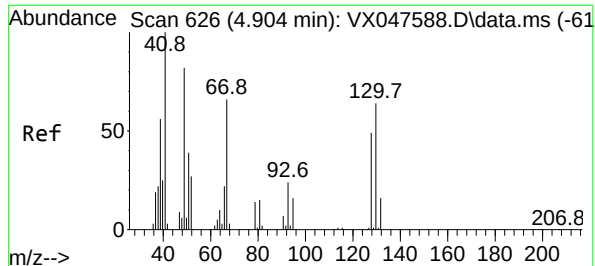
Tgt Ion: 78 Resp: 468136

Ion Ratio Lower Upper

78 100

77 23.5 18.8 28.2





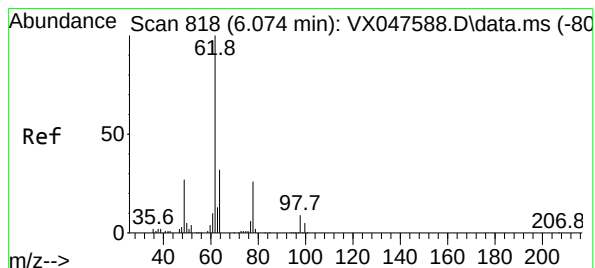
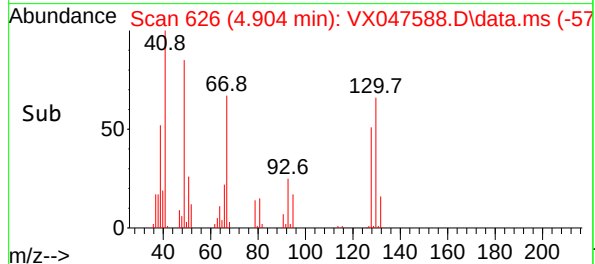
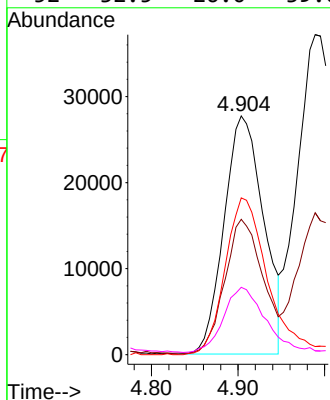
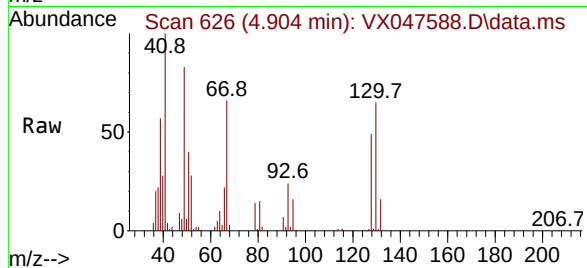
#41
Methacrylonitrile
Concen: 52.707 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 8776
Ion Ratio Lower Upper
41 100
39 54.1 43.3 64.9
67 73.2 58.6 87.8
52 32.5 26.0 39.0

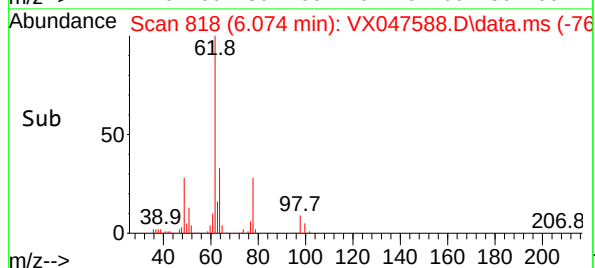
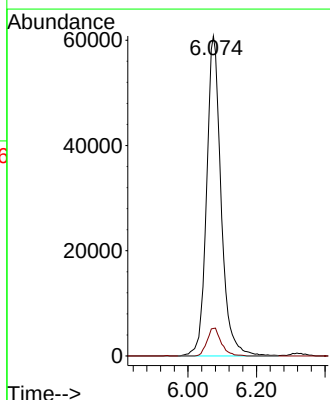
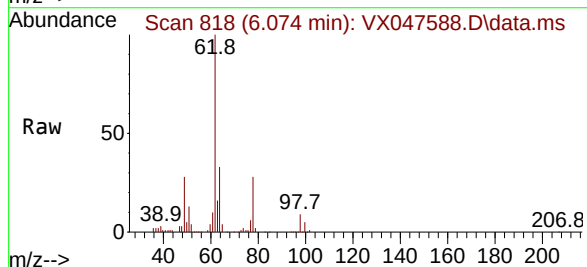
Manual Integrations
APPROVED

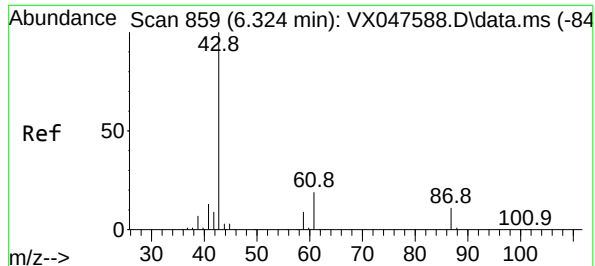
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#42
1,2-Dichloroethane
Concen: 51.431 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 62 Resp: 179037
Ion Ratio Lower Upper
62 100
98 8.5 0.0 17.0





#43

Isopropyl Acetate

Concen: 52.096 ug/l

RT: 6.324 min Scan# 859

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

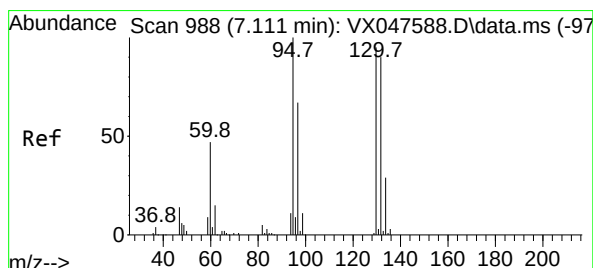
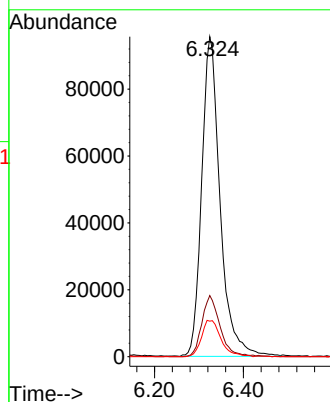
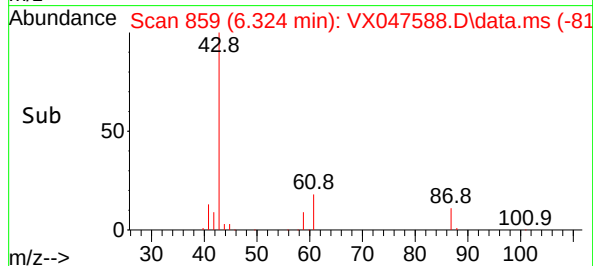
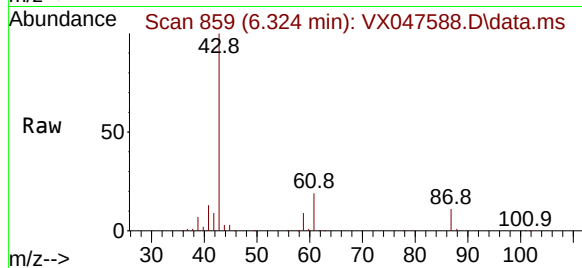
VSTDICCC050

Tgt Ion:	43	Resp:	27557
Ion	Ratio	Lower	Upper
43	100		
61	19.0	15.2	22.8
87	12.0	9.6	14.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#44

Trichloroethene

Concen: 51.463 ug/l

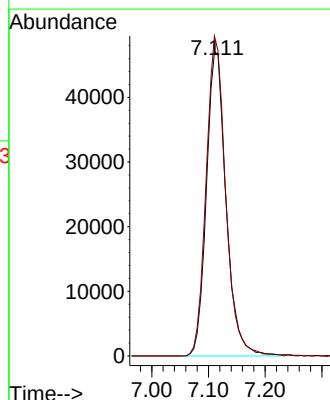
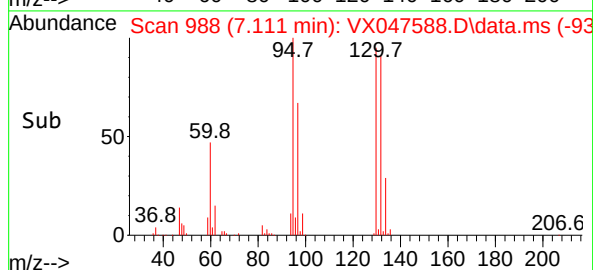
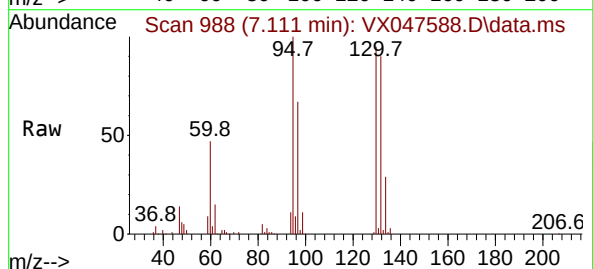
RT: 7.111 min Scan# 988

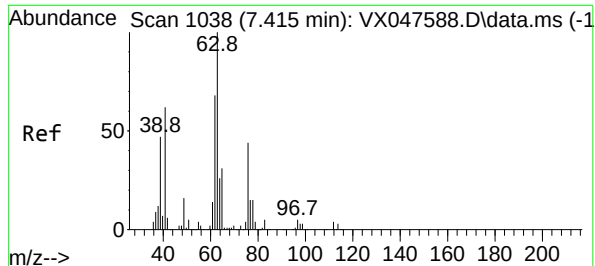
Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Tgt Ion:	130	Resp:	113832
Ion	Ratio	Lower	Upper
130	100		
95	105.4	0.0	210.8





#45

1,2-Dichloropropane

Concen: 52.122 ug/l

RT: 7.415 min Scan# 1038

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 122109

Ion Ratio Lower Upper

63 100

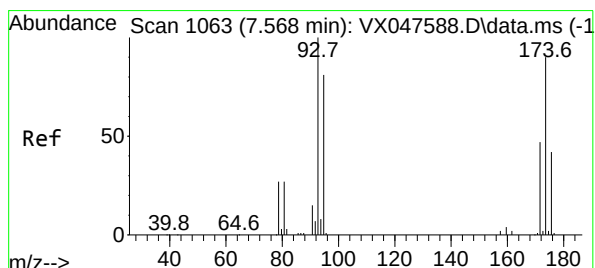
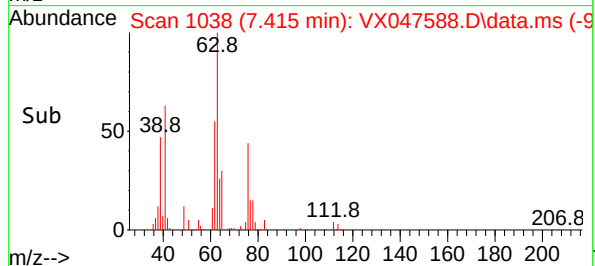
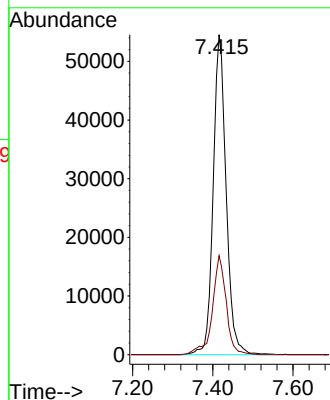
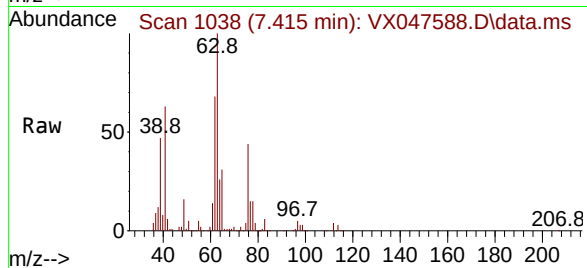
65 30.9 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#46

Dibromomethane

Concen: 51.914 ug/l

RT: 7.568 min Scan# 1063

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

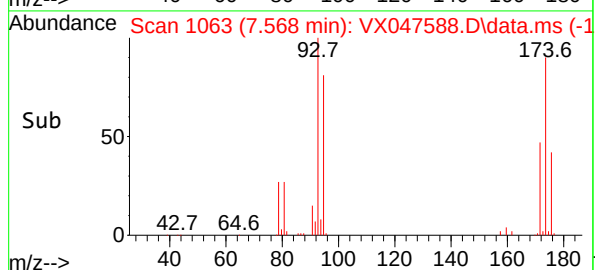
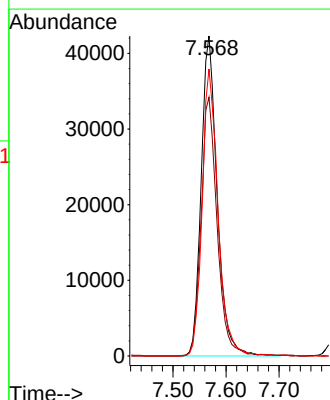
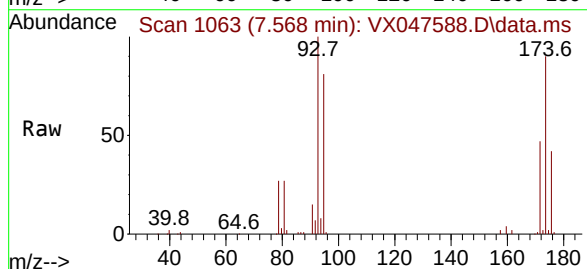
Tgt Ion: 93 Resp: 88505

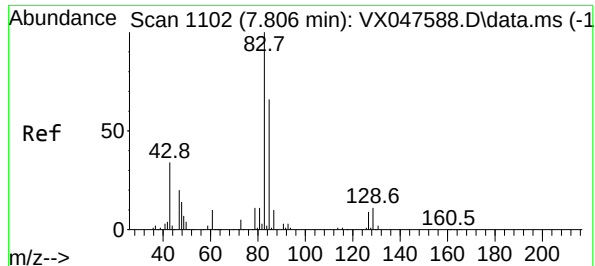
Ion Ratio Lower Upper

93 100

95 81.3 65.0 97.6

174 89.5 71.6 107.4





#47

Bromodichloromethane

Concen: 53.025 ug/l

RT: 7.806 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

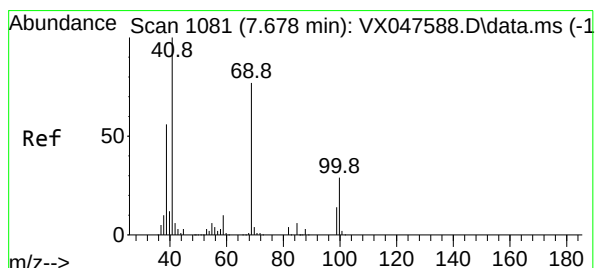
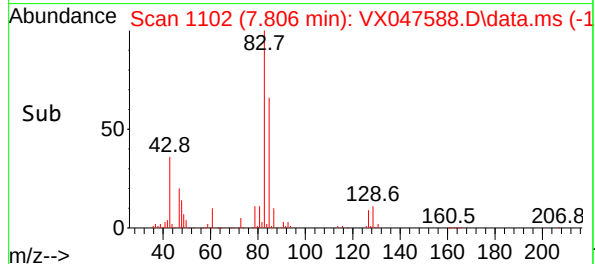
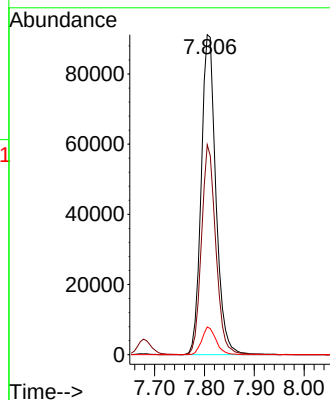
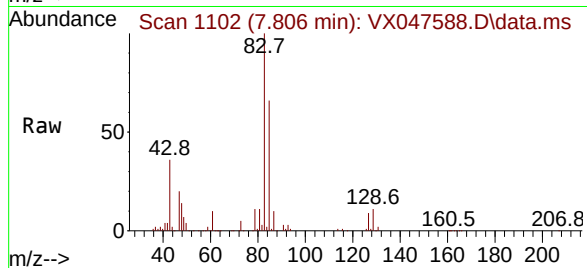
VSTDICCC050

Tgt Ion:	83	Resp:	186540
Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.5	78.7
127	8.6	6.9	10.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#48

Methyl methacrylate

Concen: 52.438 ug/l

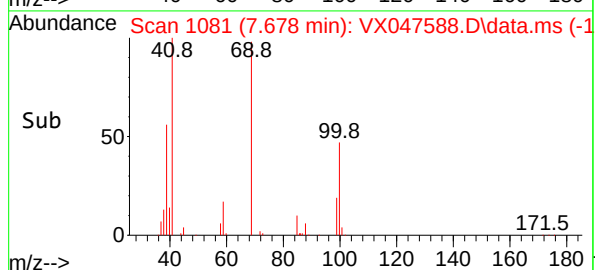
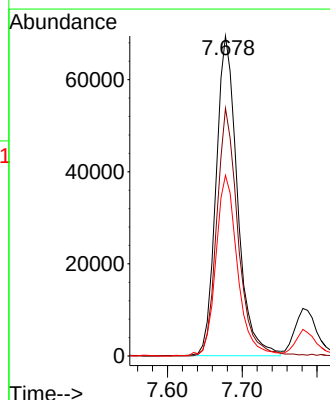
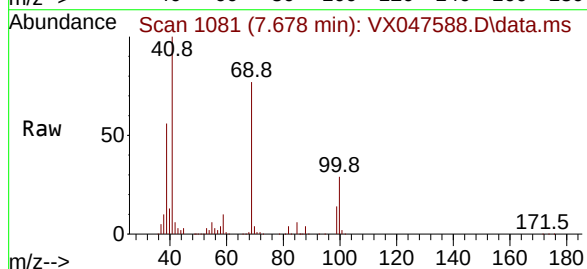
RT: 7.678 min Scan# 1081

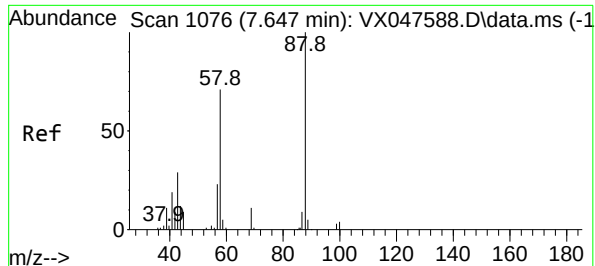
Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Tgt Ion:	41	Resp:	138167
Ion	Ratio	Lower	Upper
41	100		
69	76.8	61.4	92.2
39	57.2	45.8	68.6





#49

1,4-Dioxane

Concen: 1107.698 ug/l

RT: 7.647 min Scan# 1076

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

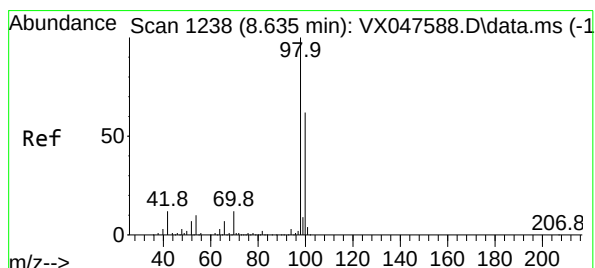
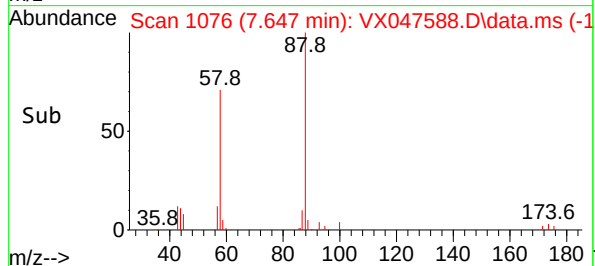
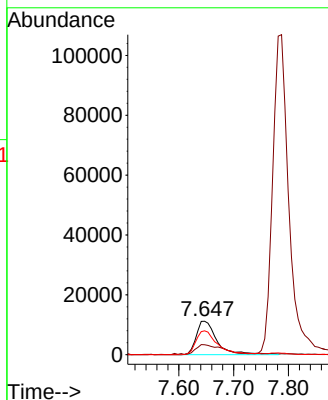
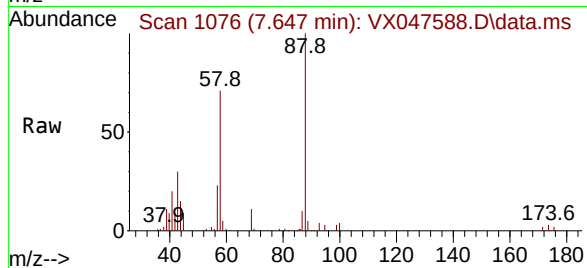
VSTDICCC050

Tgt Ion:	88	Resp:	29490
Ion	Ratio	Lower	Upper
88	100		
43	37.7	30.2	45.2
58	74.4	59.5	89.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#50

Toluene-d8

Concen: 49.428 ug/l

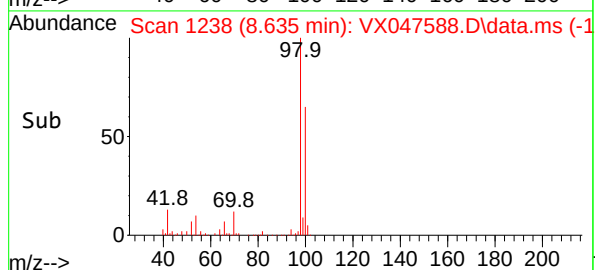
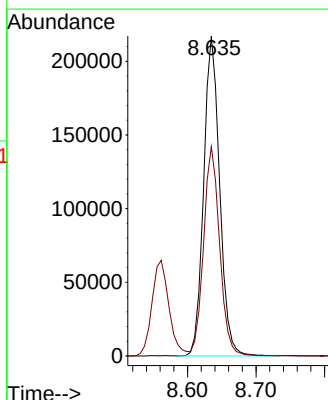
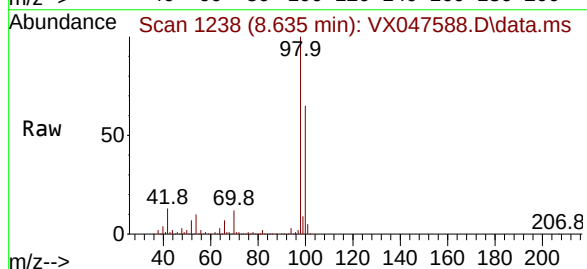
RT: 8.635 min Scan# 1238

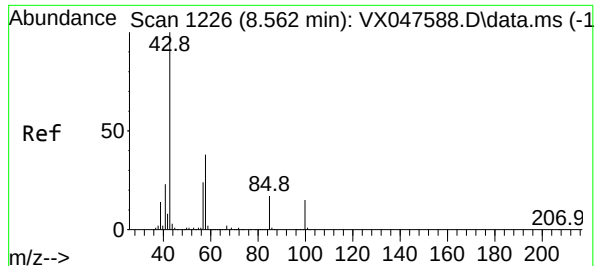
Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

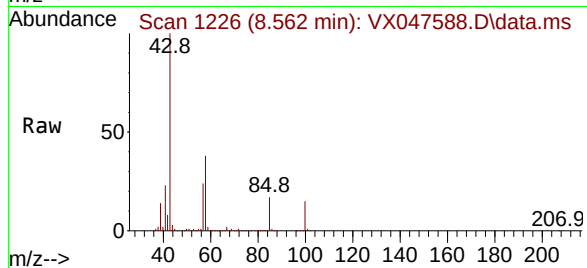
Tgt Ion:	98	Resp:	352578
Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 267.650 ug/l
RT: 8.562 min Scan# 1226
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

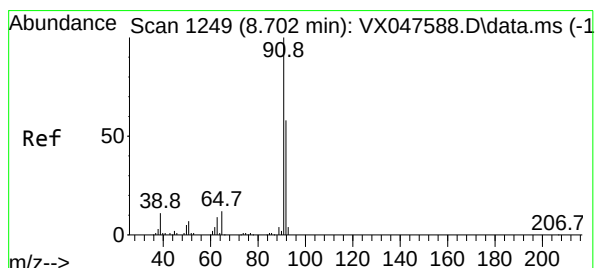
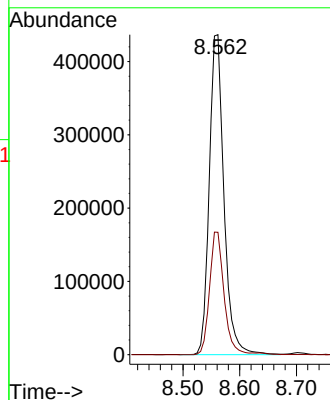
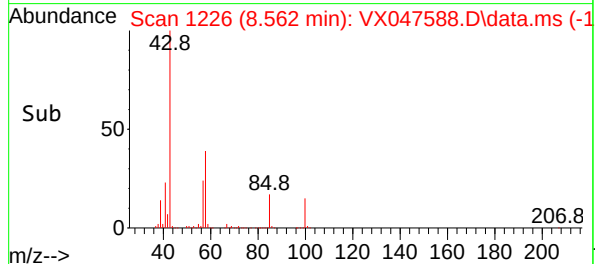
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 43 Resp: 784978
Ion Ratio Lower Upper
43 100
58 37.9 30.3 45.5

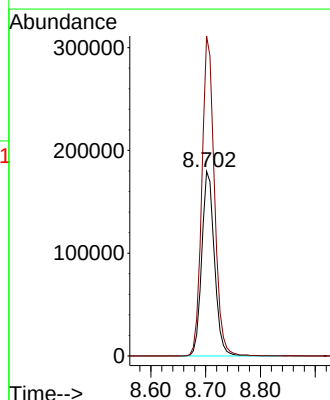
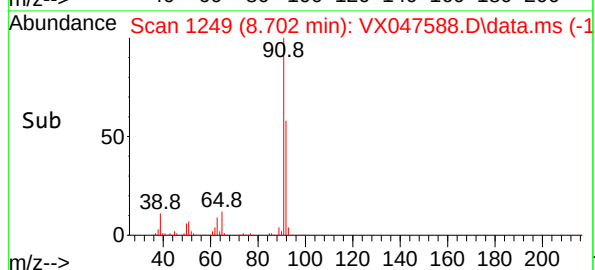
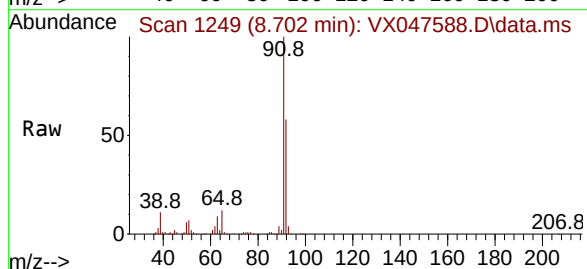
Manual Integrations
APPROVED

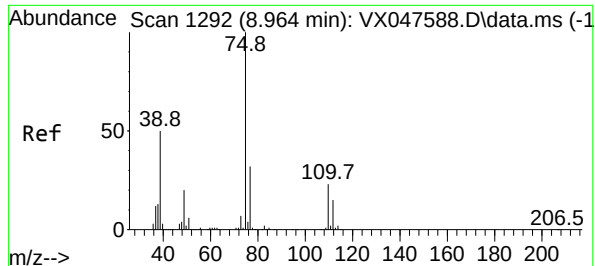
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#52
Toluene
Concen: 51.244 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 92 Resp: 288853
Ion Ratio Lower Upper
92 100
91 171.4 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 53.027 ug/l

RT: 8.964 min Scan# 1192

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 75 Resp: 19028

Ion Ratio Lower Upper

75 100

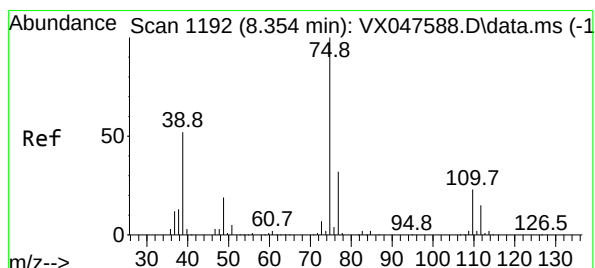
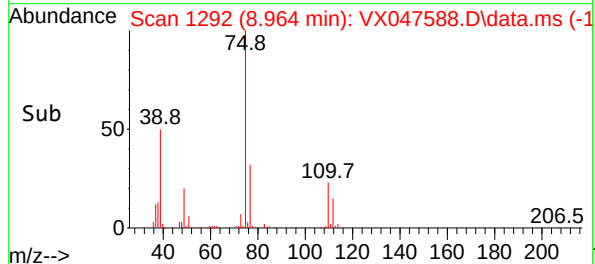
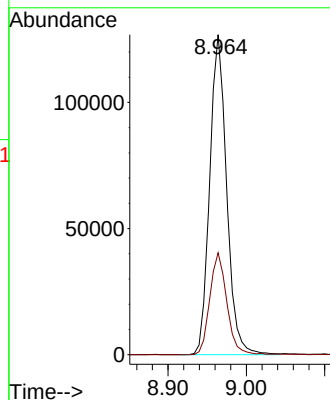
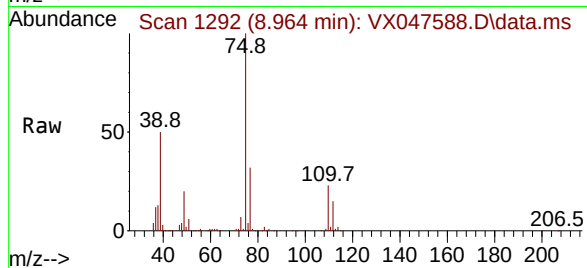
77 31.8 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#54

cis-1,3-Dichloropropene

Concen: 52.369 ug/l

RT: 8.354 min Scan# 1192

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

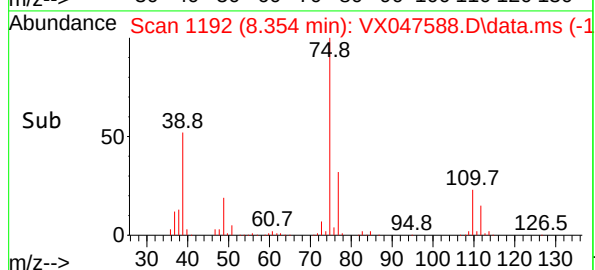
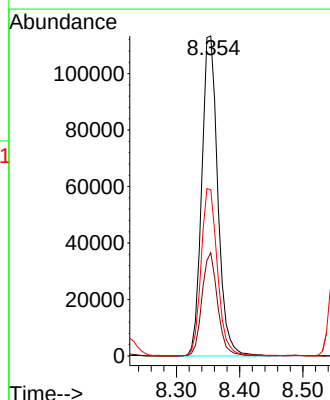
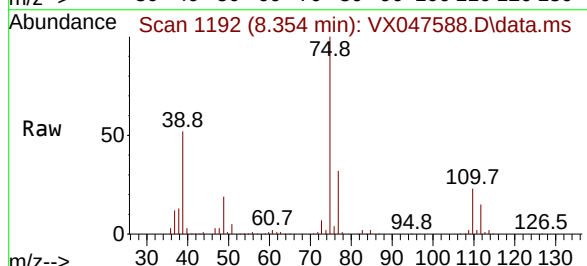
Tgt Ion: 75 Resp: 200859

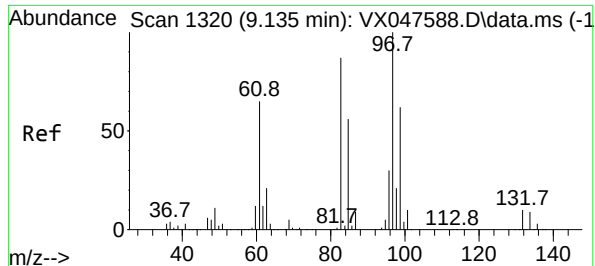
Ion Ratio Lower Upper

75 100

77 32.2 25.8 38.6

39 51.8 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 51.915 ug/l

RT: 9.135 min Scan# 1320

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 11283

Ion Ratio Lower Upper

97 100

83 87.0 69.6 104.4

85 56.3 45.0 67.6

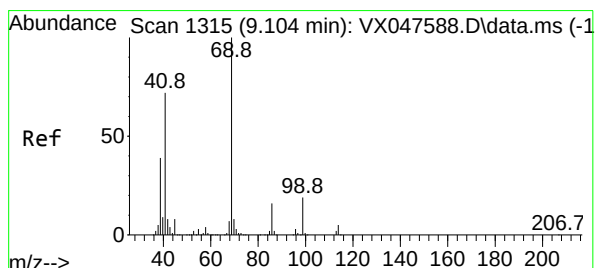
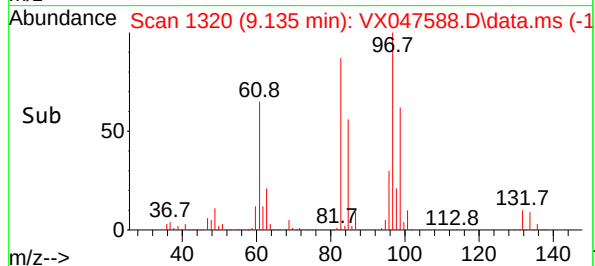
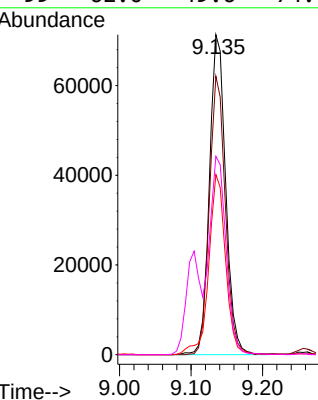
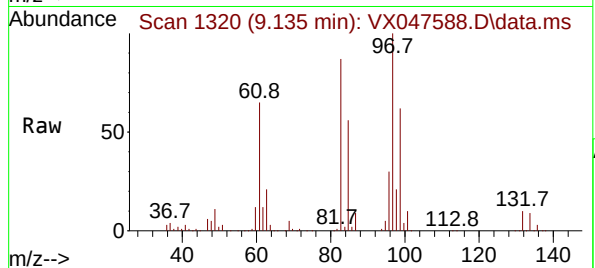
99 62.0 49.6 74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#56

Ethyl methacrylate

Concen: 53.930 ug/l

RT: 9.104 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

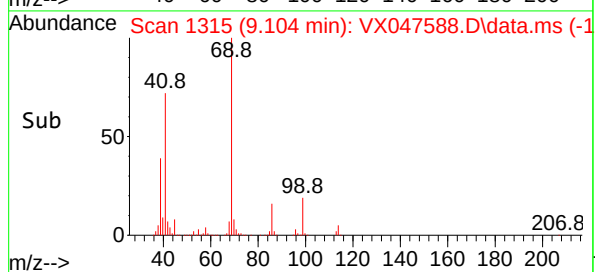
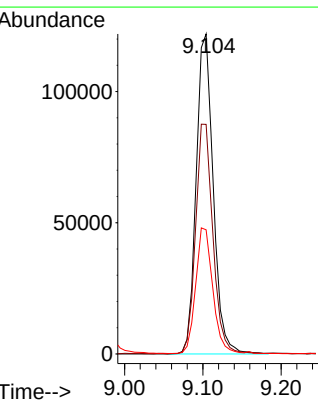
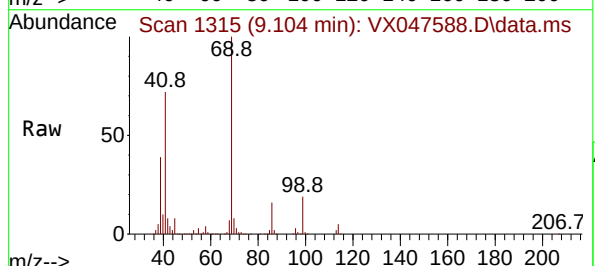
Tgt Ion: 69 Resp: 184087

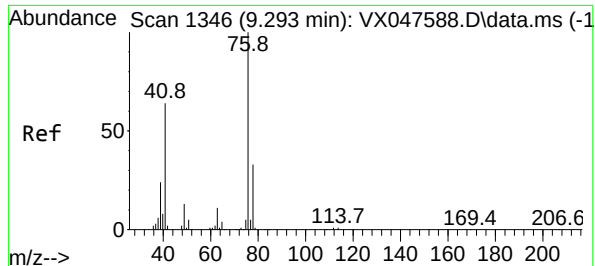
Ion Ratio Lower Upper

69 100

41 73.2 58.6 87.8

39 39.4 31.5 47.3





#57

1,3-Dichloropropane

Concen: 52.492 ug/l

RT: 9.293 min Scan# 111

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 195989

Ion Ratio Lower Upper

76 100

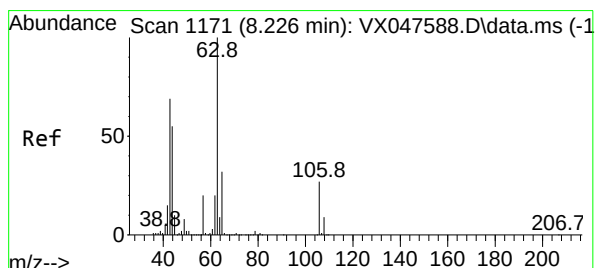
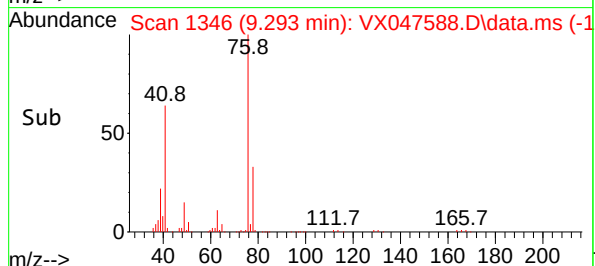
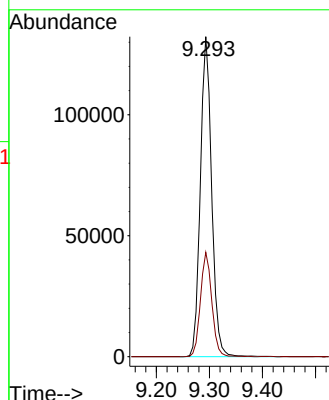
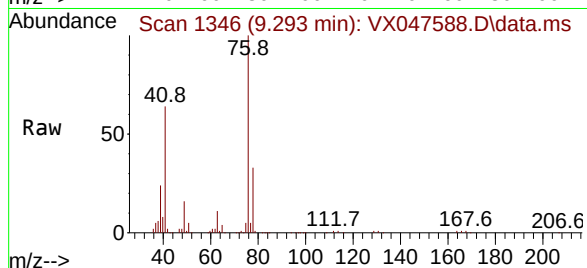
78 32.8 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#58

2-Chloroethyl Vinyl ether

Concen: 256.309 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX047588.D

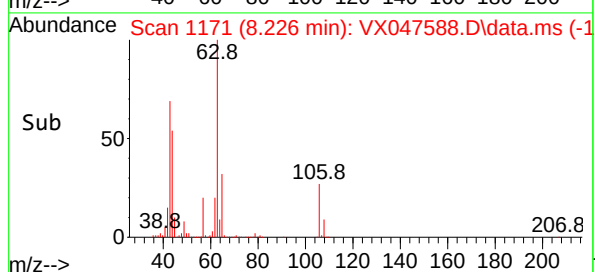
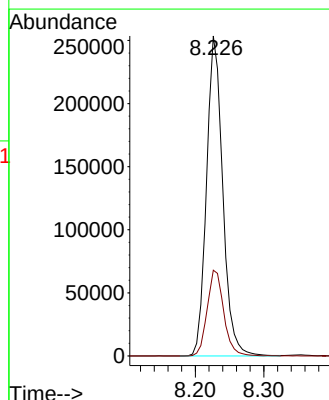
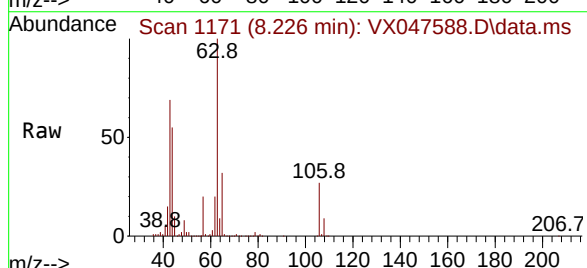
Acq: 16 Sep 2025 10:58

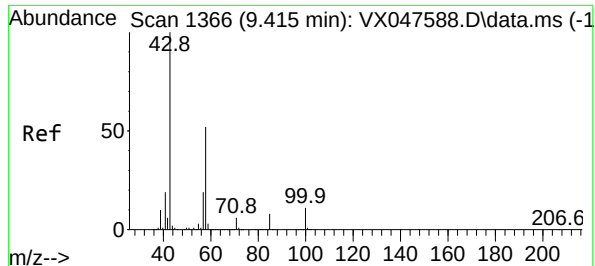
Tgt Ion: 63 Resp: 418707

Ion Ratio Lower Upper

63 100

106 27.4 21.9 32.9





#59

2-Hexanone

Concen: 262.683 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 55331

Ion Ratio Lower Upper

43 100

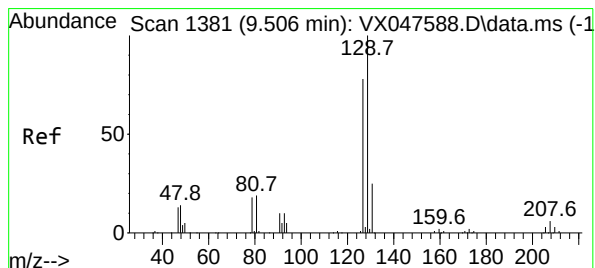
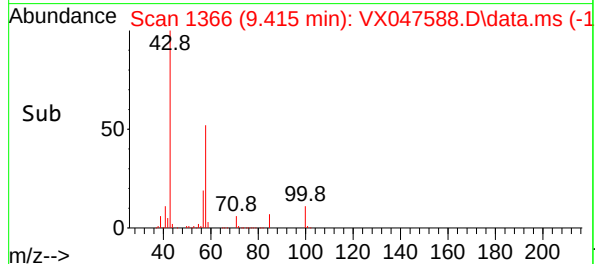
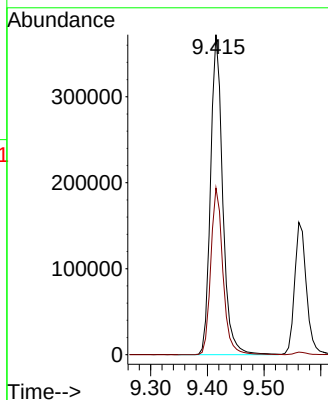
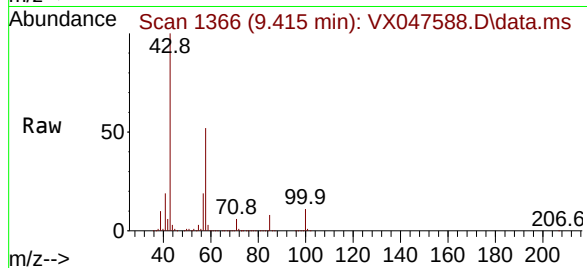
58 52.1 26.1 78.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#60

Dibromochloromethane

Concen: 53.401 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VX047588.D

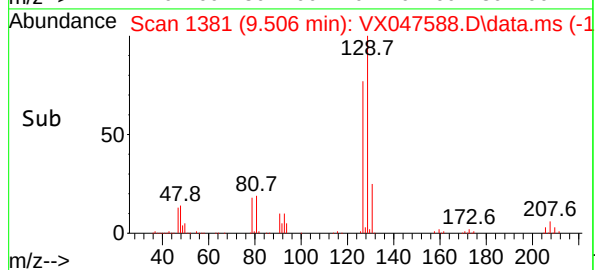
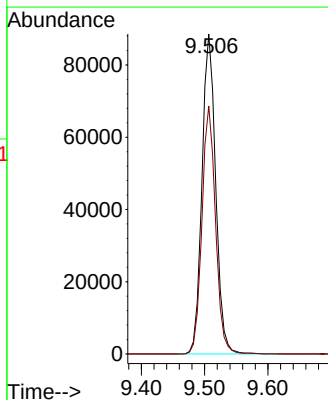
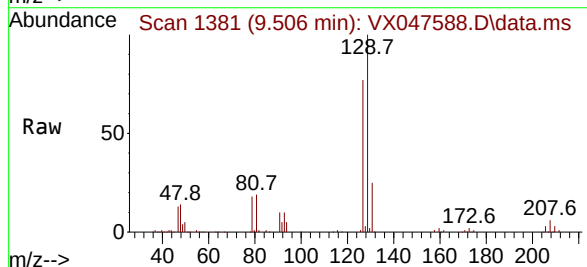
Acq: 16 Sep 2025 10:58

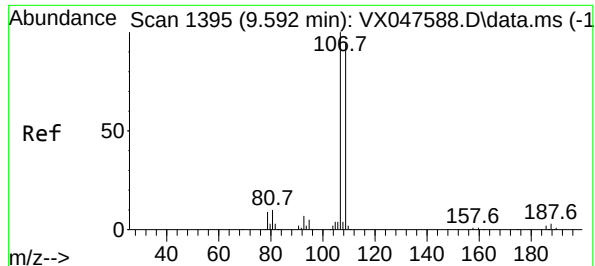
Tgt Ion:129 Resp: 133737

Ion Ratio Lower Upper

129 100

127 76.8 38.4 115.2





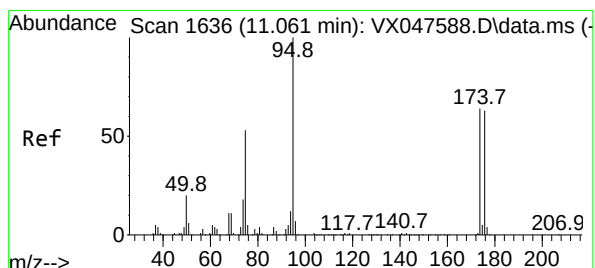
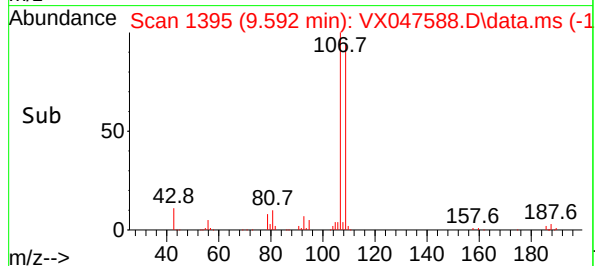
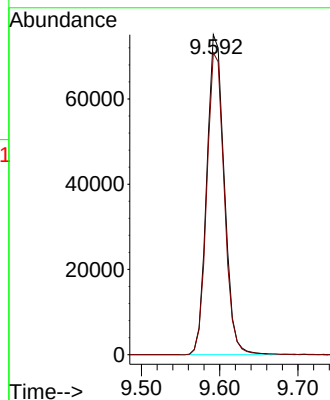
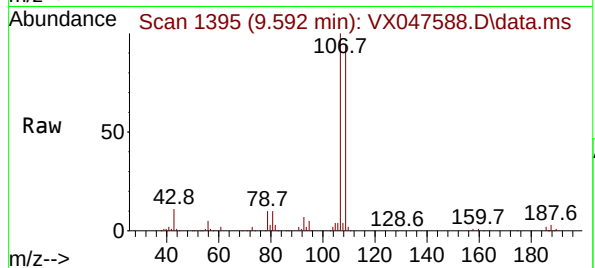
#61
1,2-Dibromoethane
Concen: 52.607 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:107 Resp: 116462
Ion Ratio Lower Upper
107 100
109 94.1 75.3 112.9

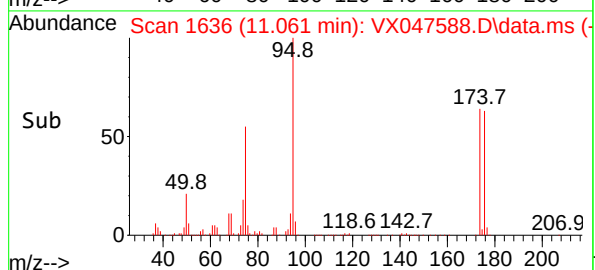
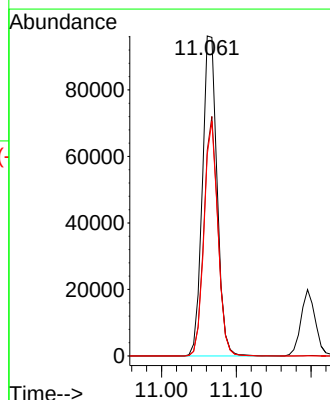
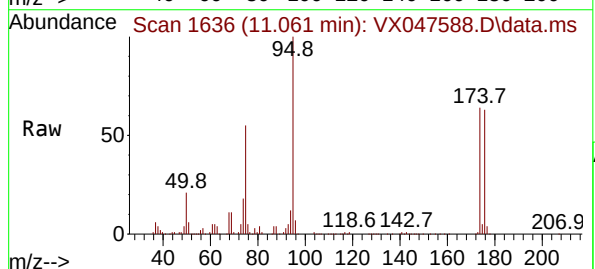
Manual Integrations
APPROVED

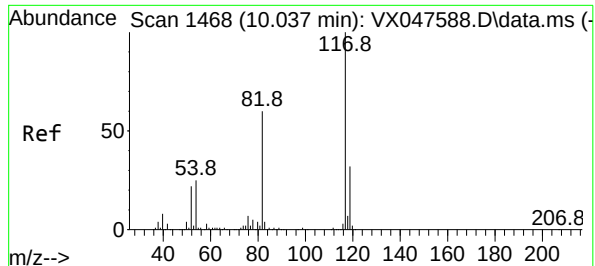
Reviewed By :John Carbone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#62
4-Bromofluorobenzene
Concen: 48.471 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

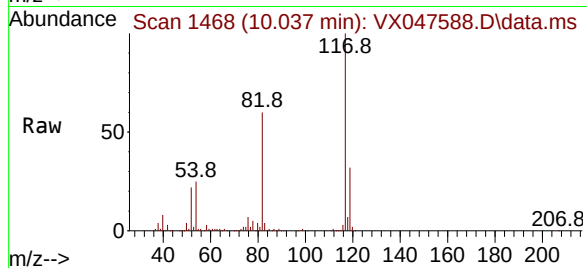
Tgt Ion: 95 Resp: 131217
Ion Ratio Lower Upper
95 100
174 70.8 0.0 141.6
176 69.2 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

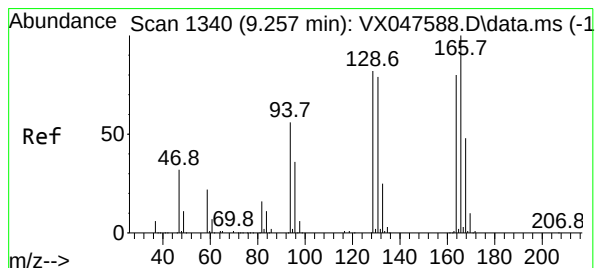
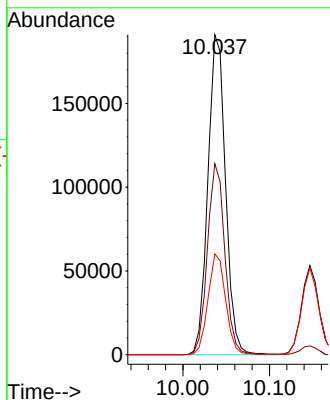
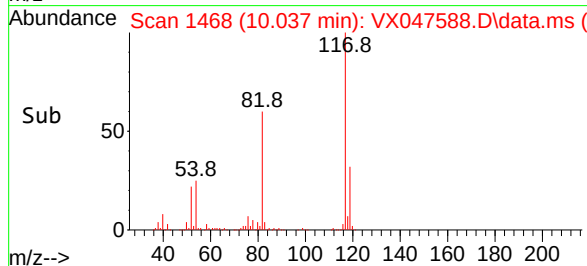
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:117 Resp: 270040
Ion Ratio Lower Upper
117 100
82 59.7 47.8 71.6
119 31.5 25.2 37.8

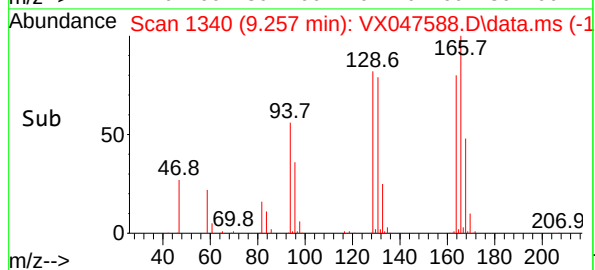
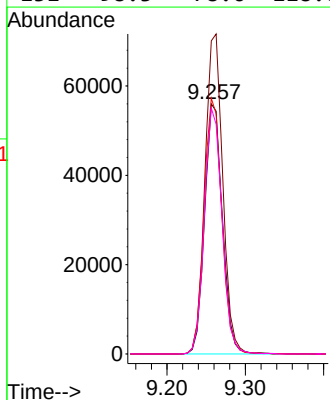
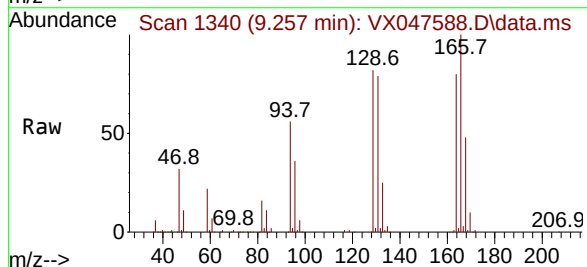
Manual Integrations
APPROVED

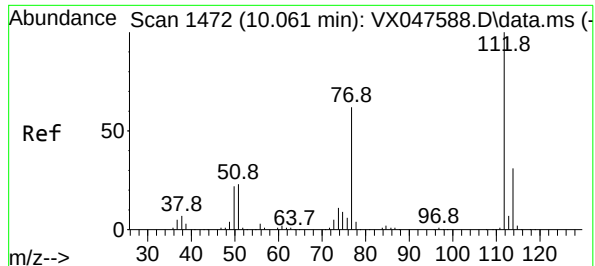
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#64
Tetrachloroethene
Concen: 50.074 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:164 Resp: 88149
Ion Ratio Lower Upper
164 100
166 125.2 100.2 150.2
129 102.2 81.8 122.6
131 98.3 78.6 118.0





#65

Chlorobenzene

Concen: 51.833 ug/l

RT: 10.061 min Scan# 1472

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:112 Resp: 31798

Ion Ratio Lower Upper

112 100

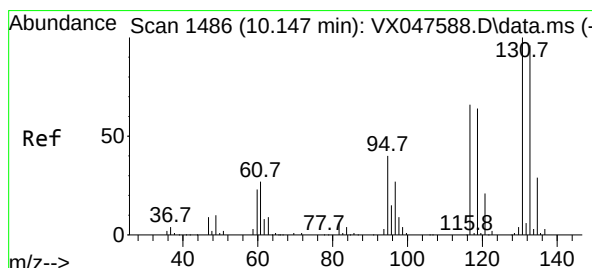
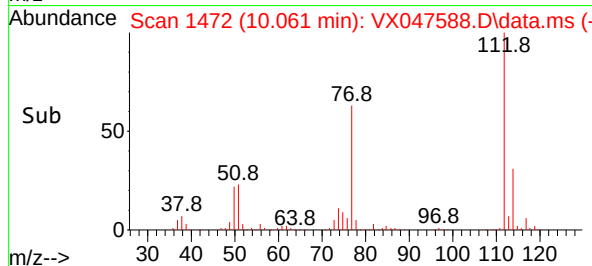
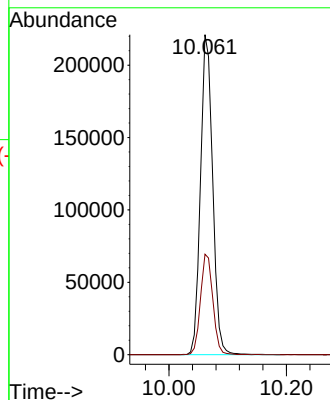
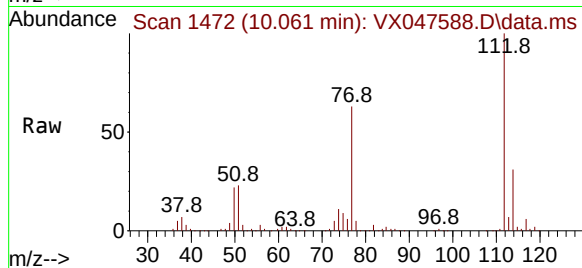
114 31.4 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 52.835 ug/l

RT: 10.147 min Scan# 1486

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

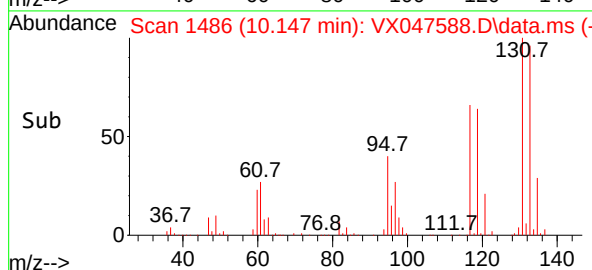
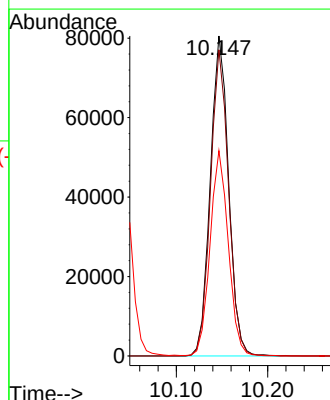
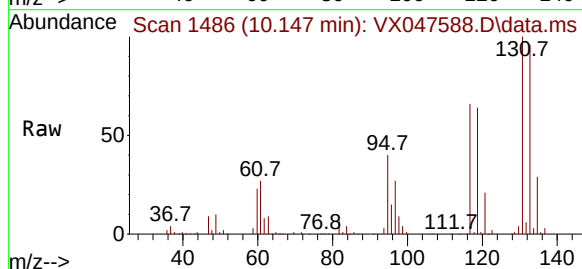
Tgt Ion:131 Resp: 111849

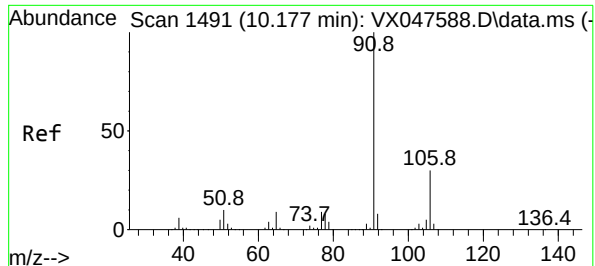
Ion Ratio Lower Upper

131 100

133 94.7 47.3 142.0

119 64.0 32.0 96.0





#67

Ethyl Benzene

Concen: 52.017 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 550610

Ion Ratio Lower Upper

91 100

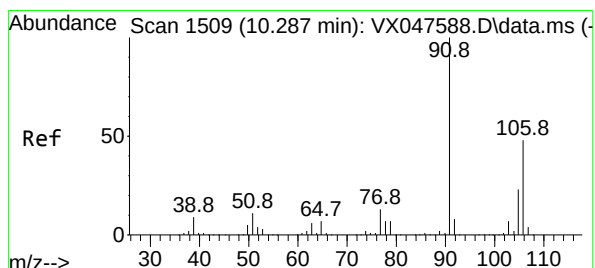
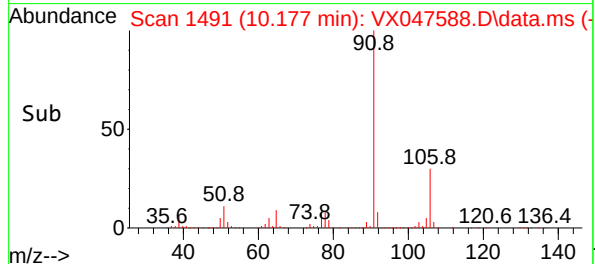
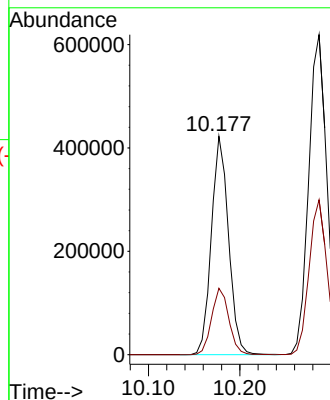
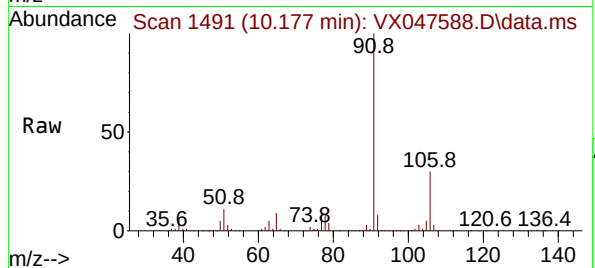
106 30.4 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#68

m/p-Xylenes

Concen: 104.809 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VX047588.D

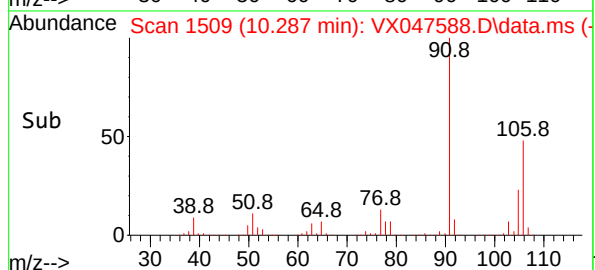
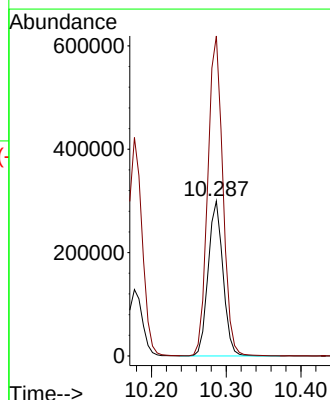
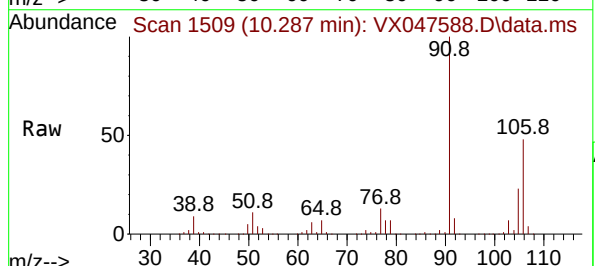
Acq: 16 Sep 2025 10:58

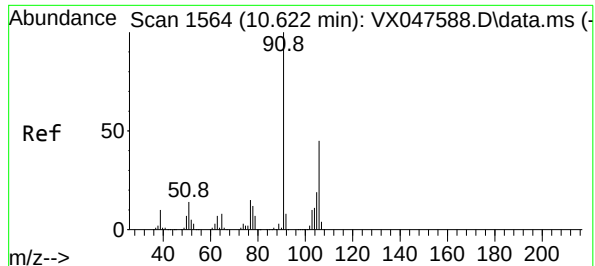
Tgt Ion:106 Resp: 412932

Ion Ratio Lower Upper

106 100

91 209.8 167.8 251.8





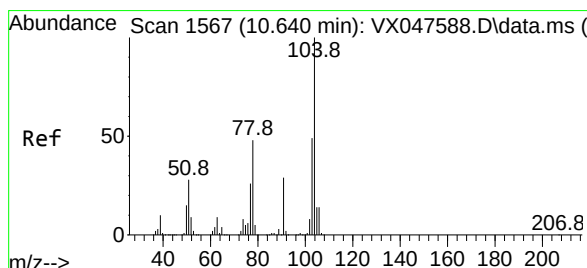
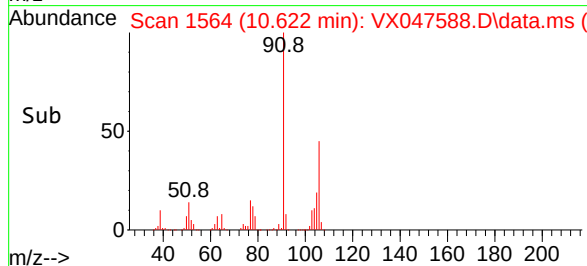
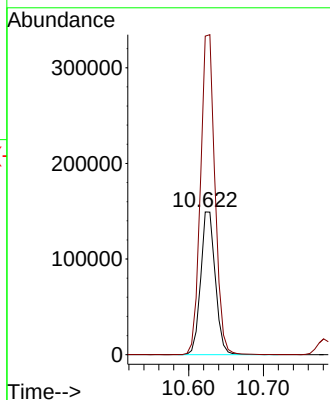
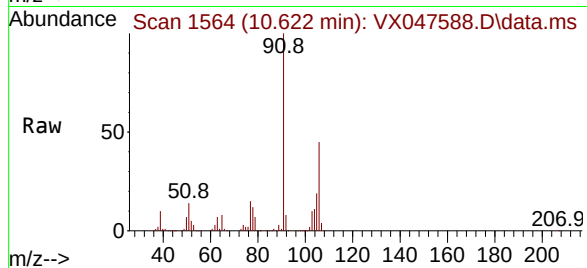
#69
o-Xylene
Concen: 53.084 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 20229
Ion Ratio Lower Upper
106 100
91 222.3 111.1 333.4

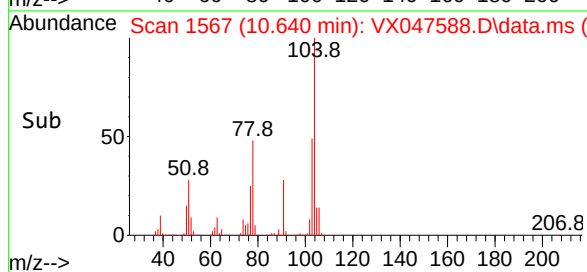
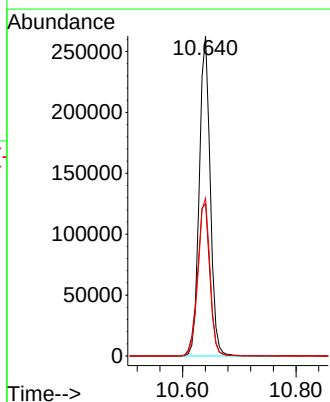
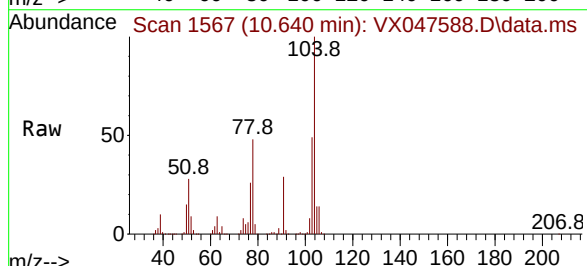
Manual Integrations
APPROVED

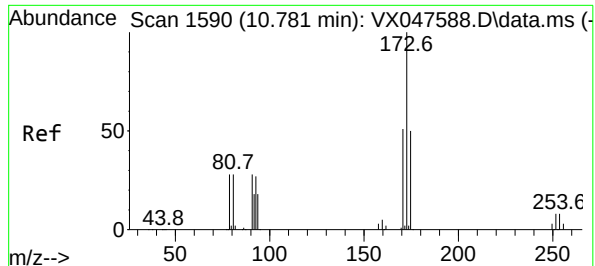
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#70
Styrene
Concen: 52.515 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

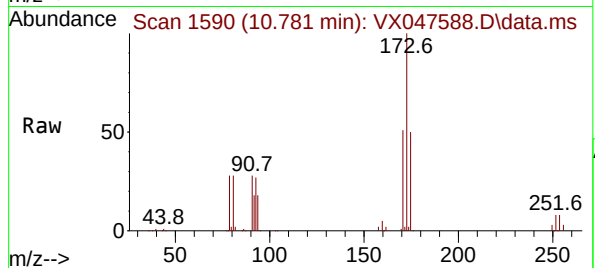
Tgt Ion:104 Resp: 350654
Ion Ratio Lower Upper
104 100
78 53.9 43.1 64.7
103 53.9 43.1 64.7





#71
Bromoform
Concen: 53.447 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

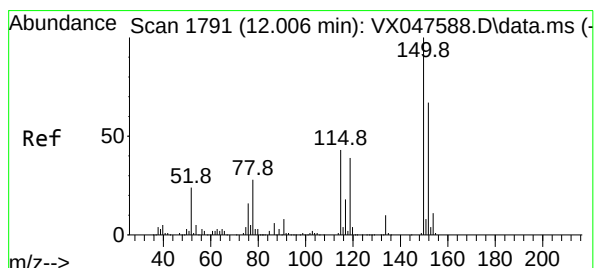
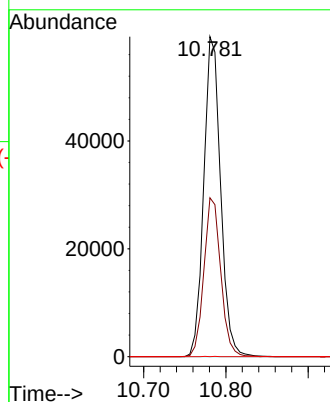
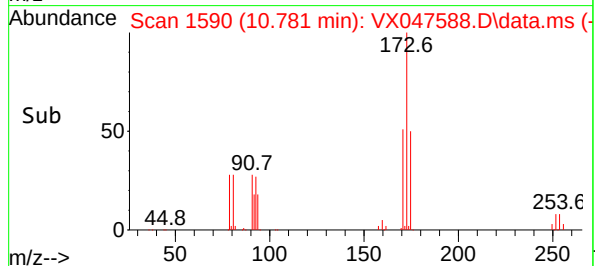
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



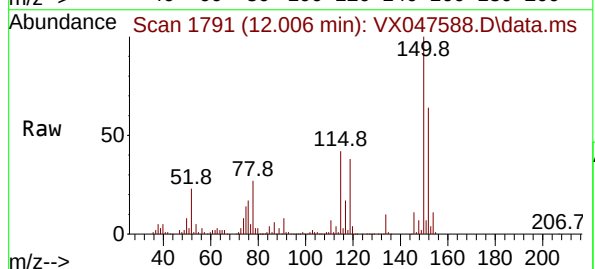
Tgt Ion:173 Resp: 8448
Ion Ratio Lower Upper
173 100
175 49.7 24.9 74.6
254 0.1 0.1 0.1

Manual Integrations
APPROVED

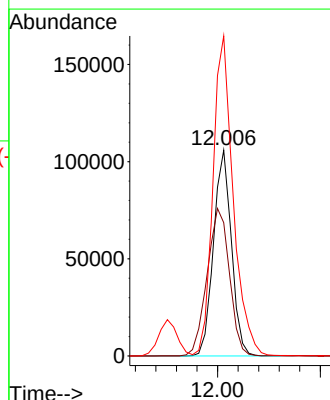
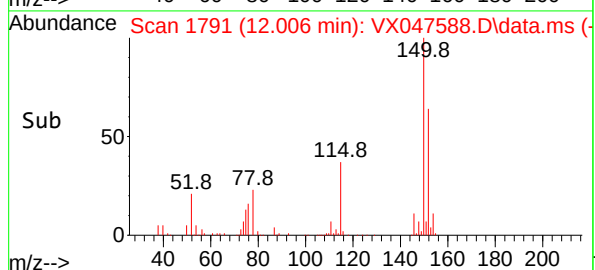
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

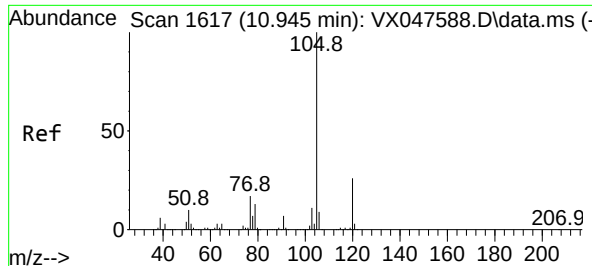


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58



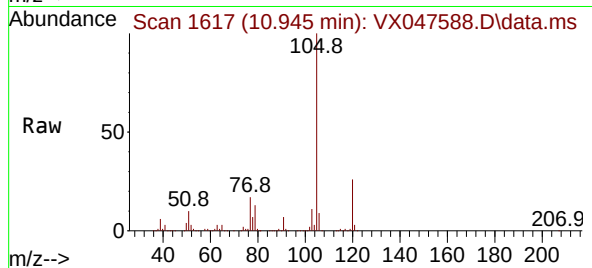
Tgt Ion:152 Resp: 127732
Ion Ratio Lower Upper
152 100
115 89.7 44.9 134.5
150 176.0 0.0 352.0





#73
Isopropylbenzene
Concen: 53.227 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

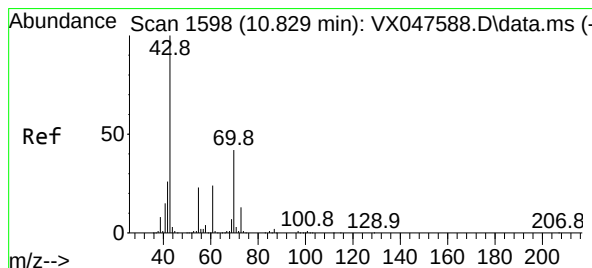
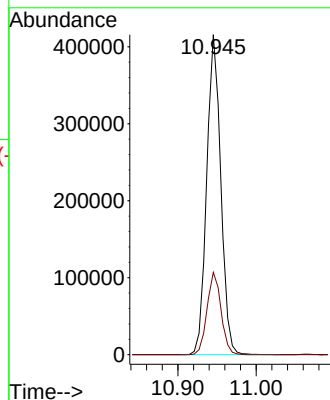
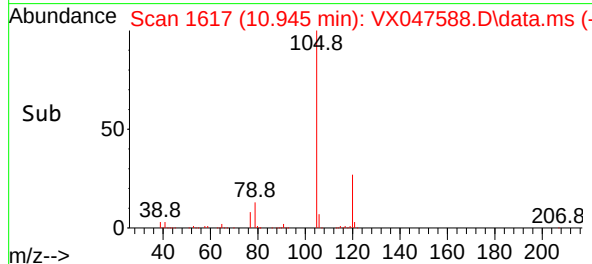
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:105 Resp: 51689
Ion Ratio Lower Upper
105 100
120 25.6 12.8 38.4

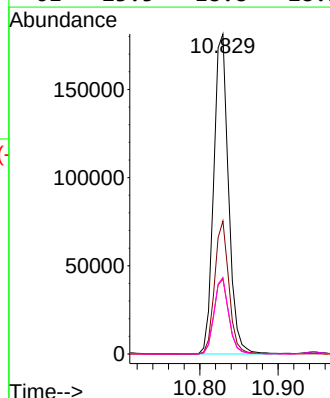
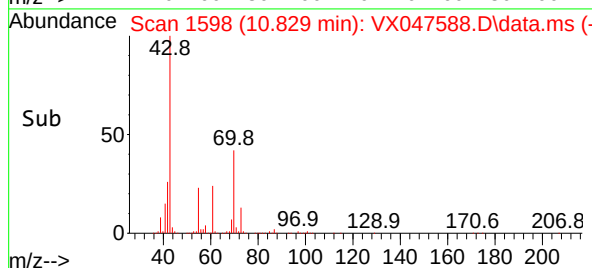
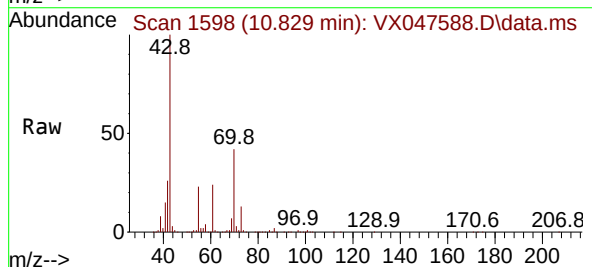
Manual Integrations
APPROVED

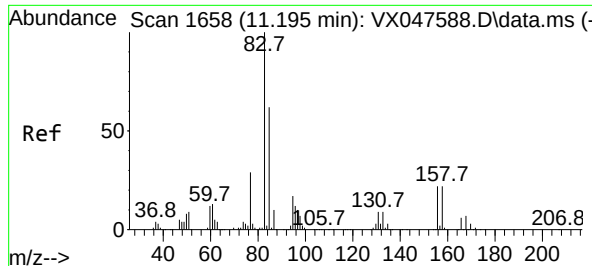
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#74
N-ethyl acetate
Concen: 53.710 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 43 Resp: 237846
Ion Ratio Lower Upper
43 100
70 40.0 32.0 48.0
55 23.6 18.9 28.3
61 23.5 18.8 28.2





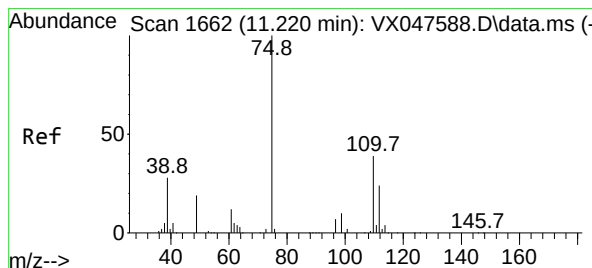
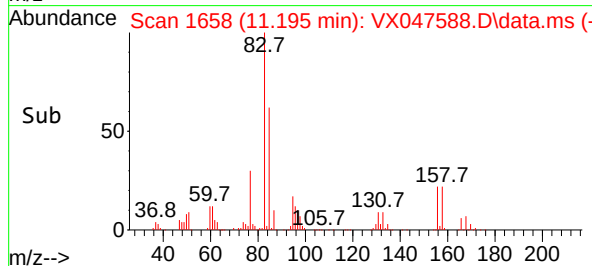
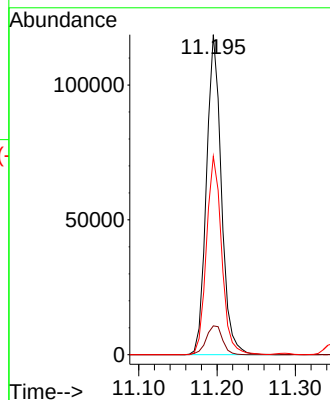
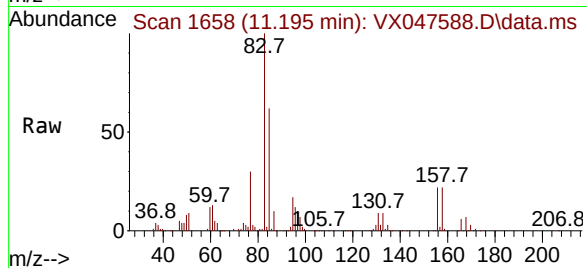
#75
1,1,2,2-Tetrachloroethane
Concen: 53.251 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 156454
Ion Ratio Lower Upper
83 100
131 9.9 5.0 14.9
85 63.3 31.6 95.0

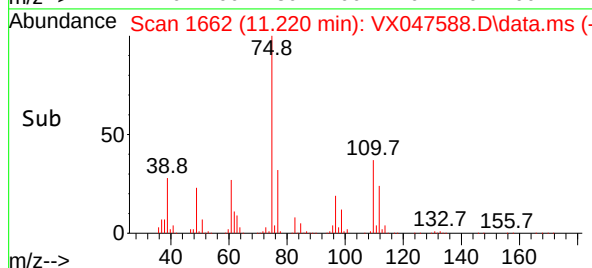
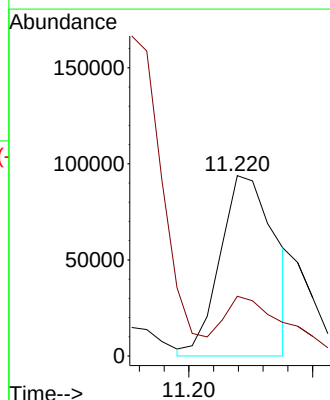
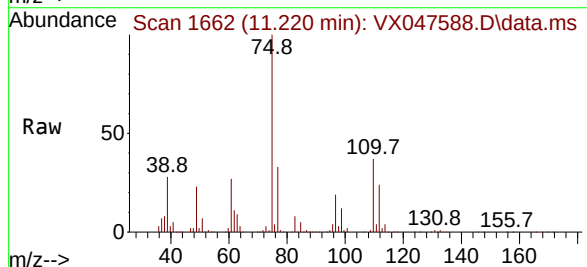
Manual Integrations
APPROVED

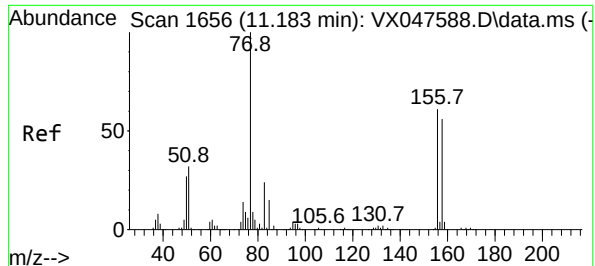
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#76
1,2,3-Trichloropropane
Concen: 54.322 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 144074
Ion Ratio Lower Upper
75 100
77 37.6 18.8 56.4





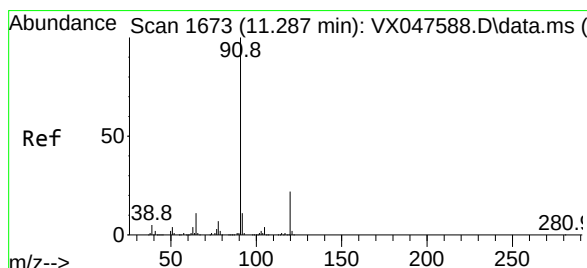
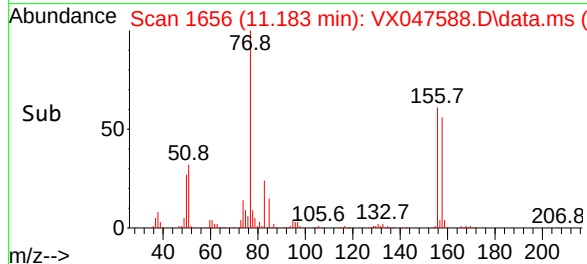
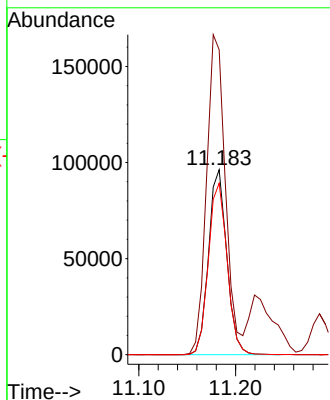
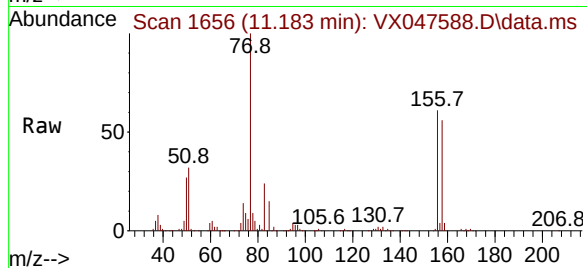
#77
Bromobenzene
Concen: 52.754 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 126174
Ion Ratio Lower Upper
156 100
77 179.4 89.7 269.1
158 95.7 47.9 143.6

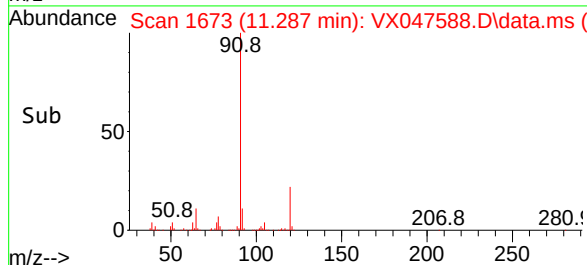
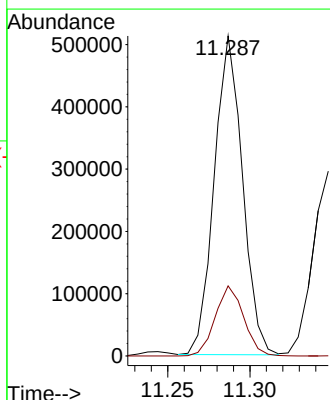
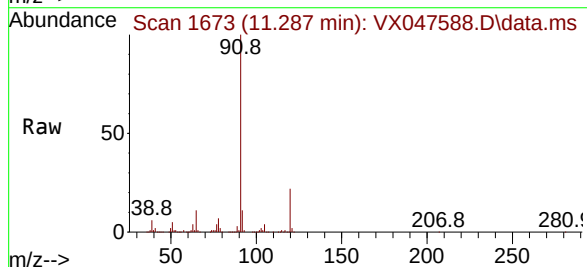
Manual Integrations
APPROVED

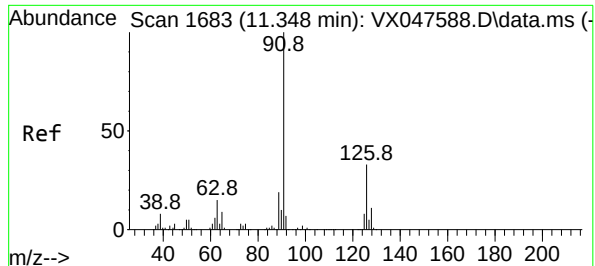
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#78
n-propylbenzene
Concen: 53.315 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 612035
Ion Ratio Lower Upper
91 100
120 22.1 11.1 33.1





#79

2-Chlorotoluene

Concen: 52.965 ug/l

RT: 11.348 min Scan# 1683

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 37239

Ion Ratio Lower Upper

91 100

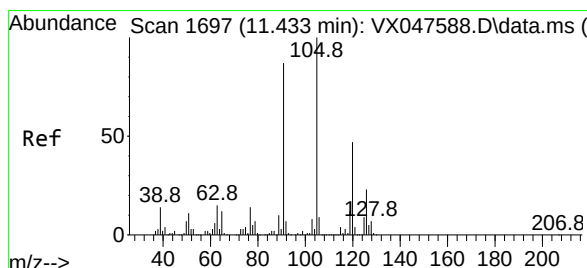
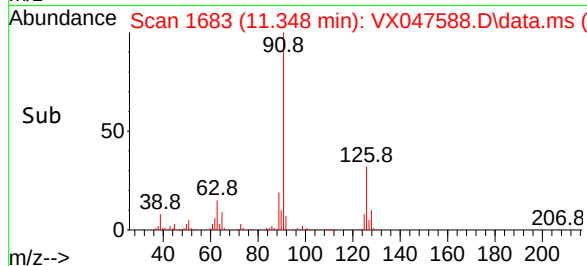
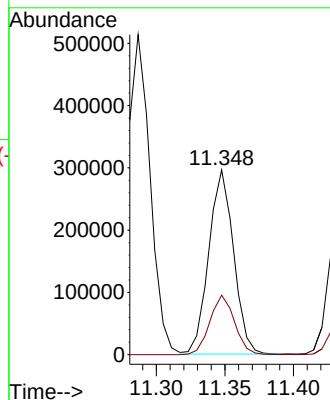
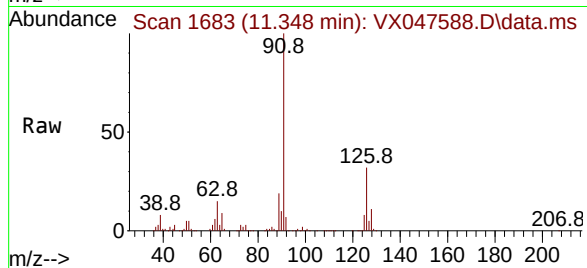
126 32.2 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#80

1,3,5-Trimethylbenzene

Concen: 53.518 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. 0.000 min

Lab File: VX047588.D

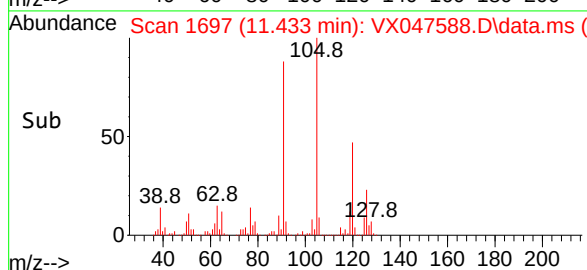
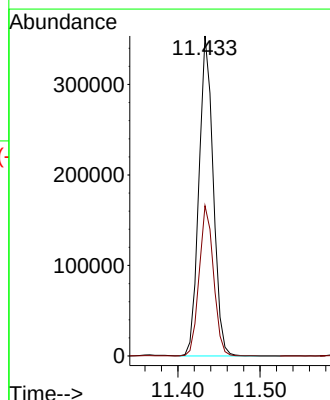
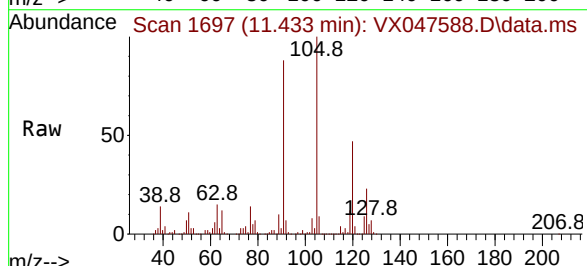
Acq: 16 Sep 2025 10:58

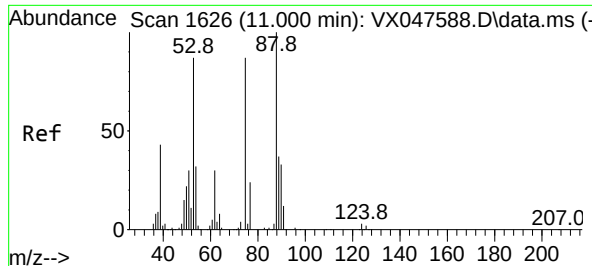
Tgt Ion:105 Resp: 426989

Ion Ratio Lower Upper

105 100

120 47.2 23.6 70.8





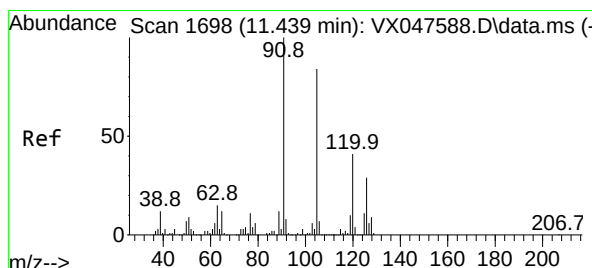
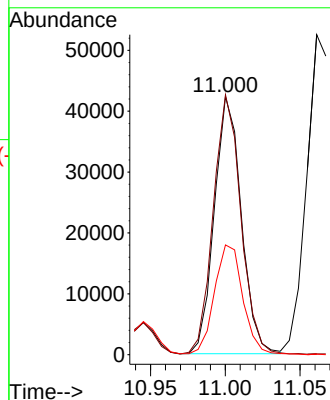
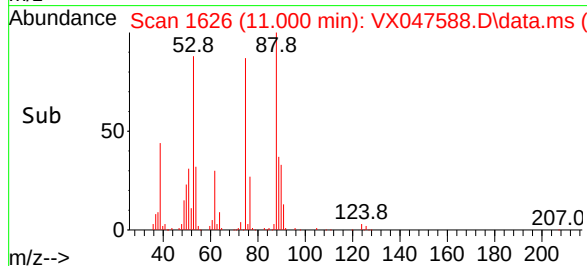
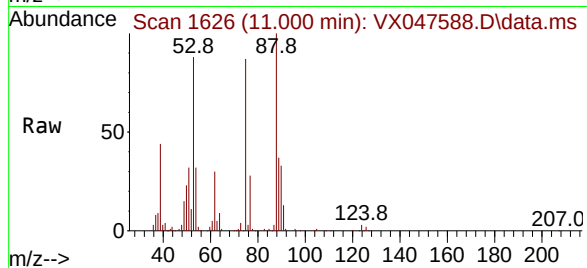
#81
trans-1,4-Dichloro-2-butene
Concen: 52.190 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 5292
Ion Ratio Lower Upper
75 100
53 104.3 83.4 125.2
89 45.4 36.3 54.5

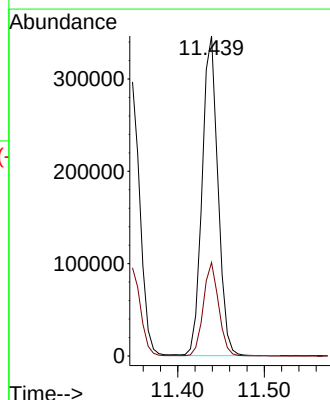
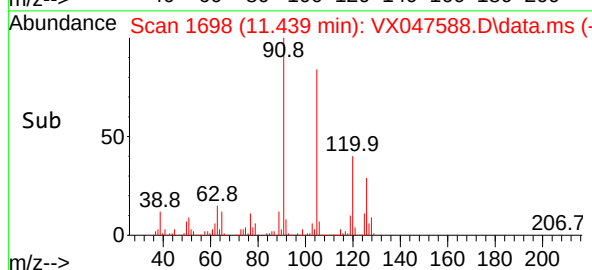
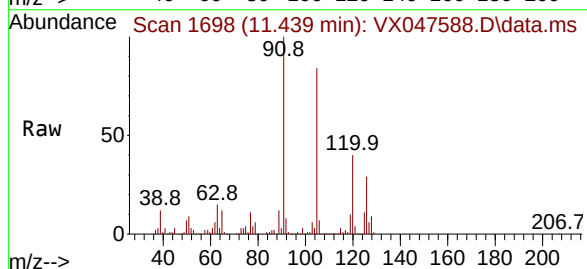
Manual Integrations
APPROVED

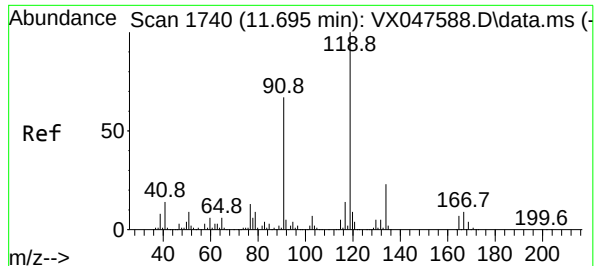
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#82
4-Chlorotoluene
Concen: 52.806 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 91 Resp: 438502
Ion Ratio Lower Upper
91 100
126 28.4 14.2 42.6





#83

tert-Butylbenzene

Concen: 52.539 ug/l

RT: 11.695 min Scan# 1740

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

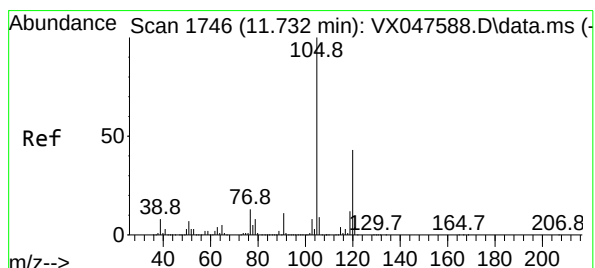
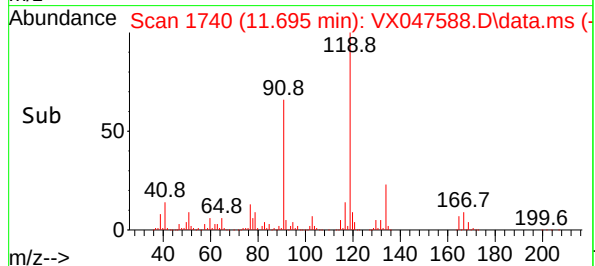
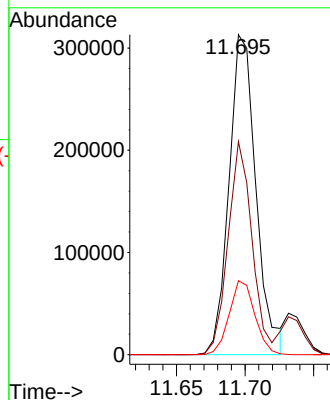
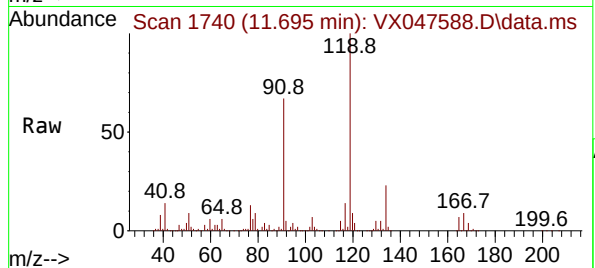
VSTDICCC050

Tgt Ion:	119	Resp:	42910
Ion Ratio	Lower	Upper	
119	100		
91	59.2	29.6	88.8
134	22.0	11.0	33.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#84

1,2,4-Trimethylbenzene

Concen: 52.798 ug/l

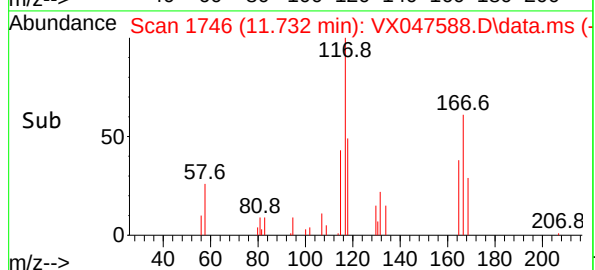
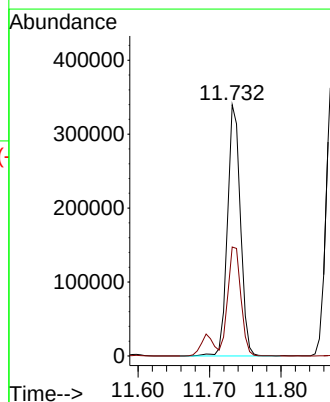
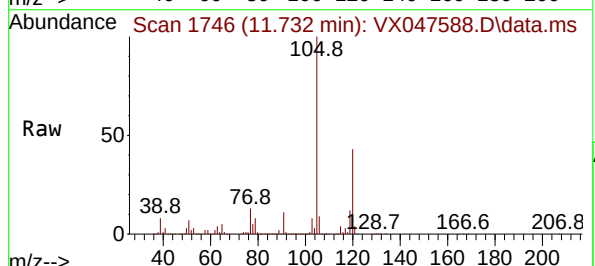
RT: 11.732 min Scan# 1746

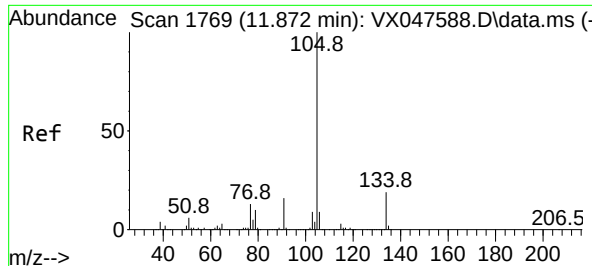
Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

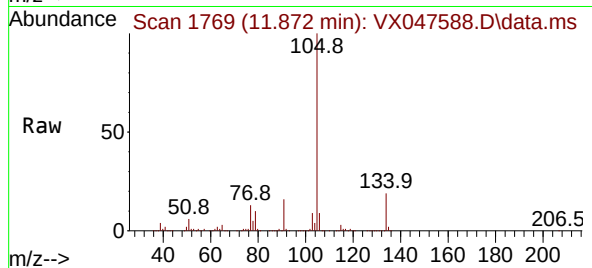
Tgt Ion:	105	Resp:	427073
Ion Ratio	Lower	Upper	
105	100		
120	44.1	22.1	66.1





#85
sec-Butylbenzene
Concen: 53.029 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

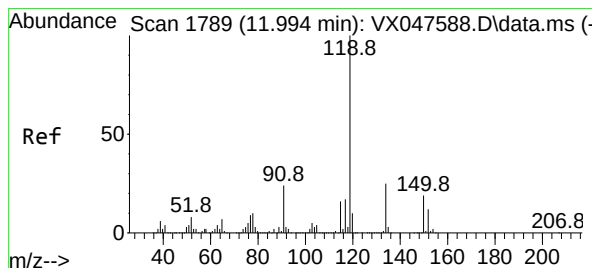
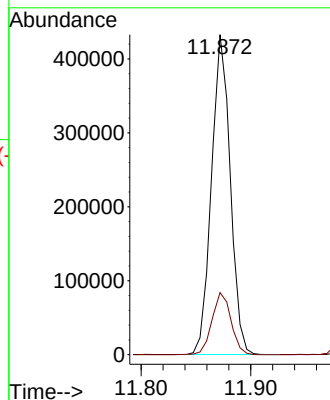
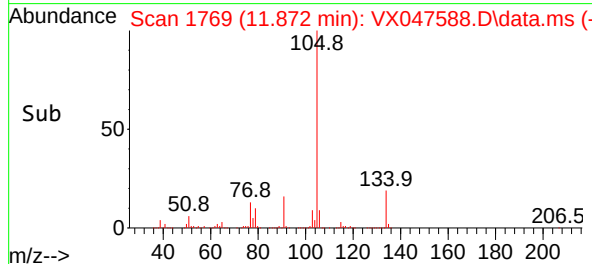
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



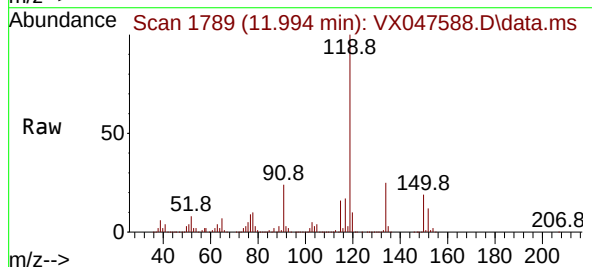
Tgt Ion:105 Resp: 51444
Ion Ratio Lower Upper
105 100
134 19.7 9.8 29.5

Manual Integrations
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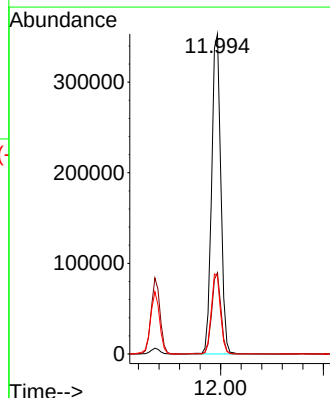
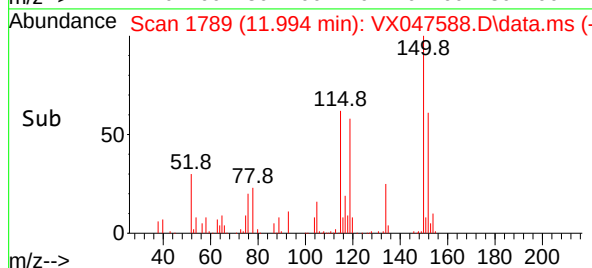
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

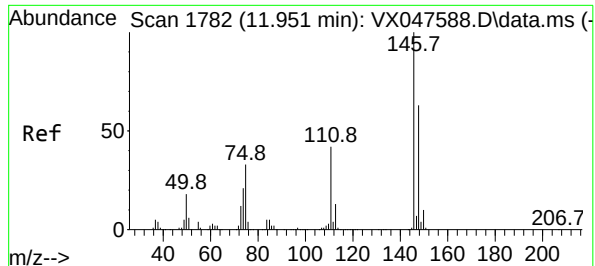


#86
p-Isopropyltoluene
Concen: 53.172 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58



Tgt Ion:119 Resp: 436704
Ion Ratio Lower Upper
119 100
134 25.2 12.6 37.8
91 25.1 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 52.232 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 232038

Ion Ratio Lower Upper

146 100

111 43.0 21.5 64.5

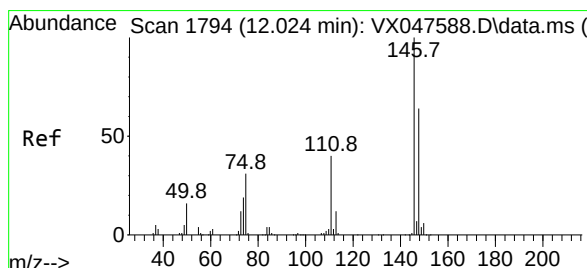
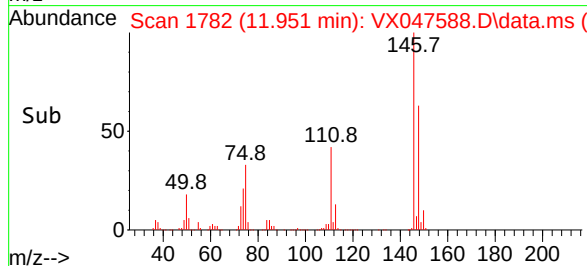
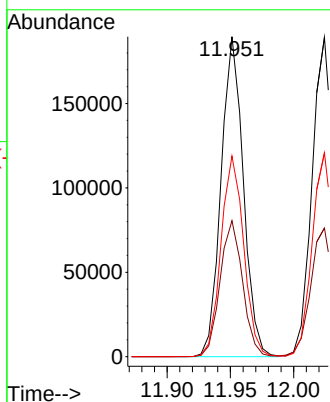
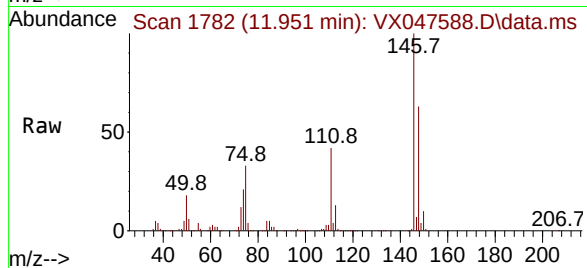
148 64.0 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#88

1,4-Dichlorobenzene

Concen: 51.316 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

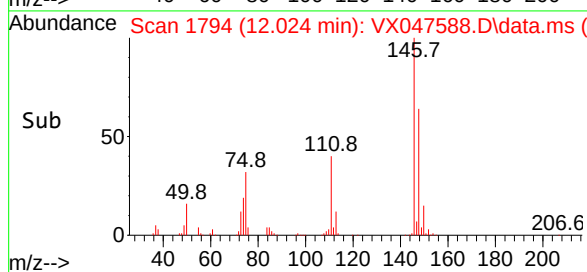
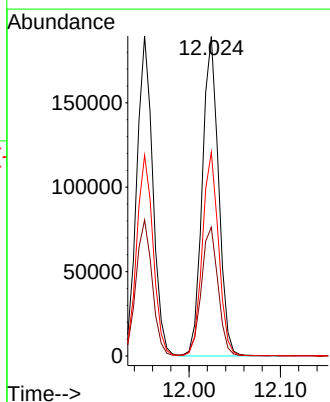
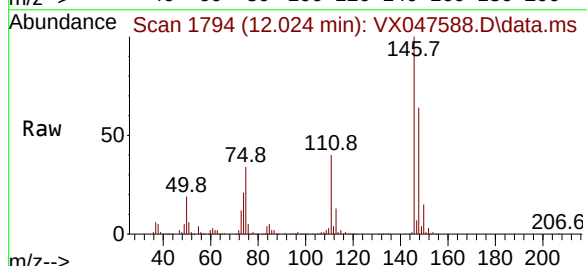
Tgt Ion:146 Resp: 233975

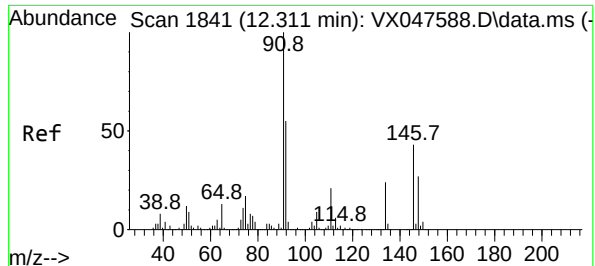
Ion Ratio Lower Upper

146 100

111 41.6 20.8 62.4

148 63.4 31.7 95.1





#89

n-Butylbenzene

Concen: 52.766 ug/l

RT: 12.311 min Scan# 1841

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

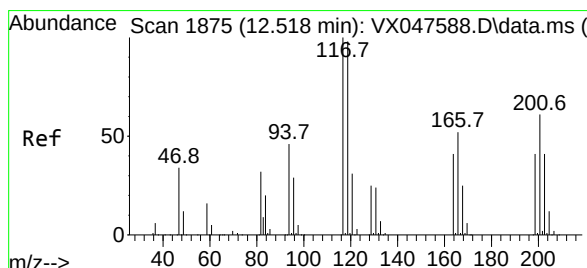
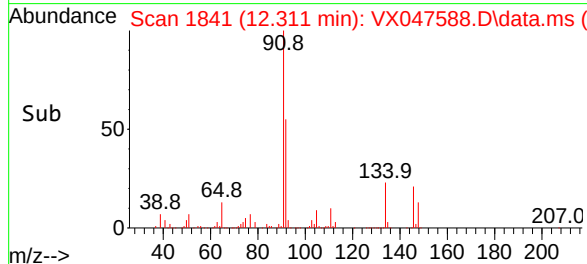
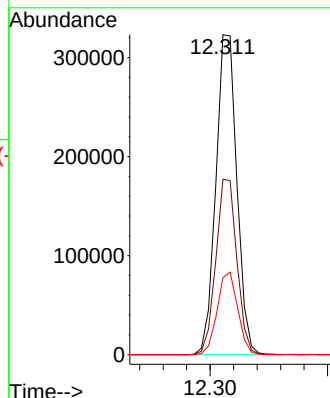
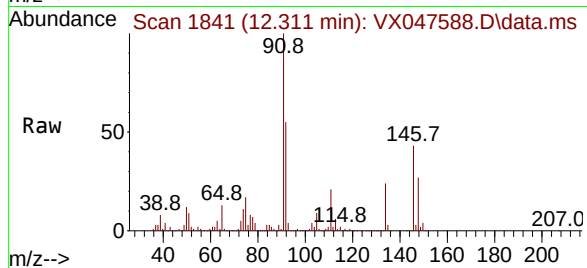
VSTDICCC050

Tgt Ion:	91	Resp:	40099
Ion	Ratio	Lower	Upper
91	100		
92	55.1	27.6	82.7
134	25.2	12.6	37.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachloroethane

Concen: 52.567 ug/l

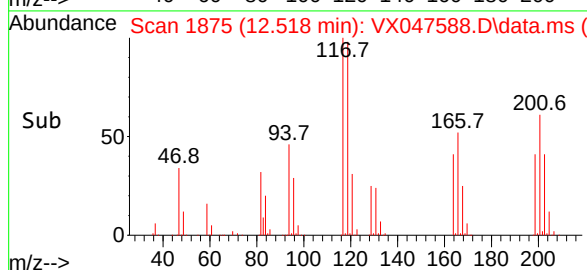
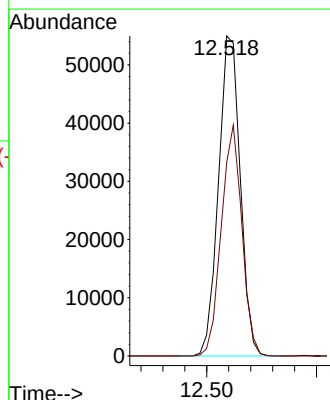
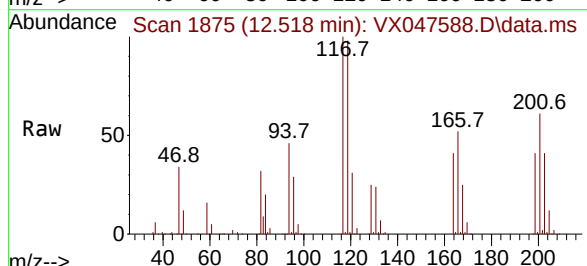
RT: 12.518 min Scan# 1875

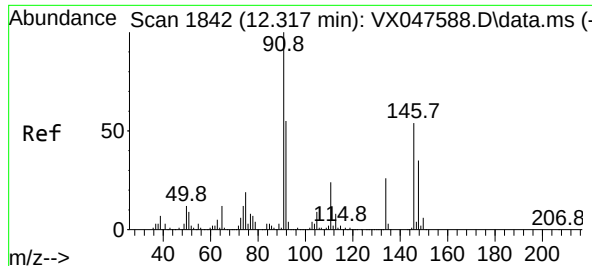
Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Tgt Ion:	117	Resp:	75800
Ion	Ratio	Lower	Upper
117	100		
201	68.3	34.2	102.5





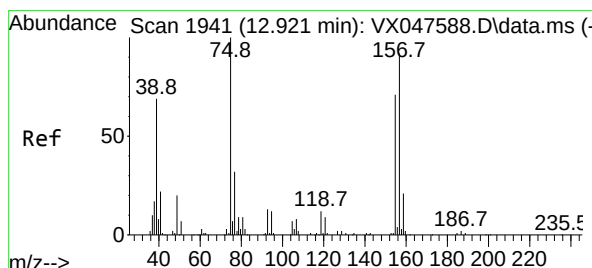
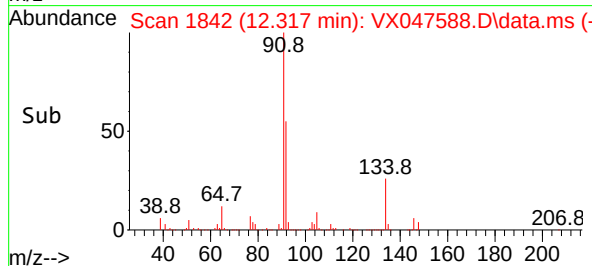
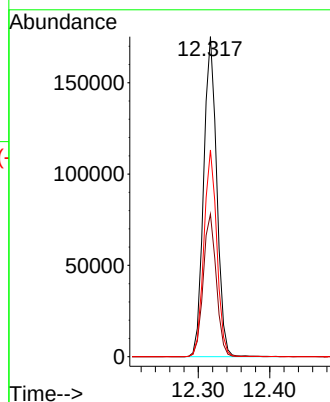
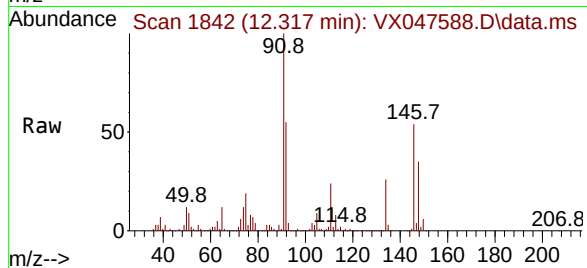
#91
1,2-Dichlorobenzene
Concen: 52.688 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:146 Resp: 22299
Ion Ratio Lower Upper
146 100
111 44.4 22.2 66.6
148 63.6 31.8 95.4

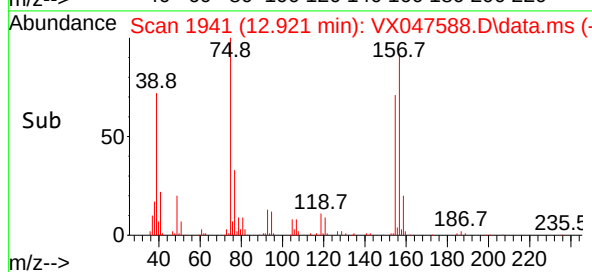
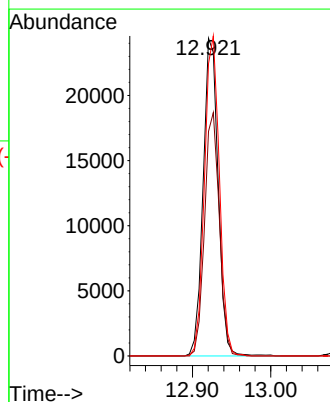
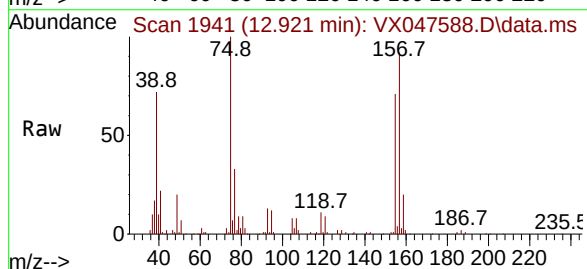
Manual Integrations
APPROVED

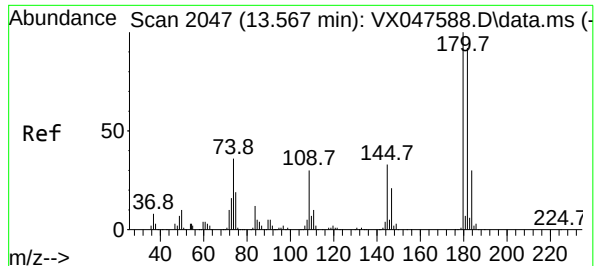
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 54.554 ug/l
RT: 12.921 min Scan# 1941
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion: 75 Resp: 32451
Ion Ratio Lower Upper
75 100
155 75.4 37.7 113.1
157 99.6 49.8 149.4





#93

1,2,4-Trichlorobenzene

Concen: 53.685 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

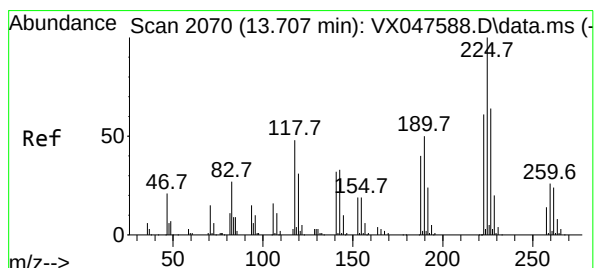
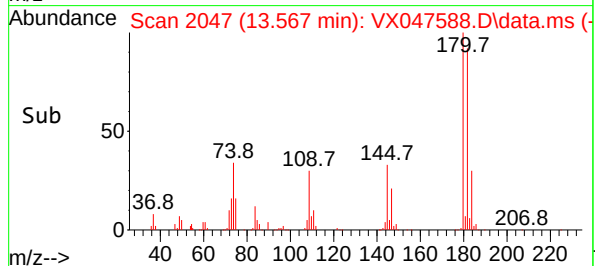
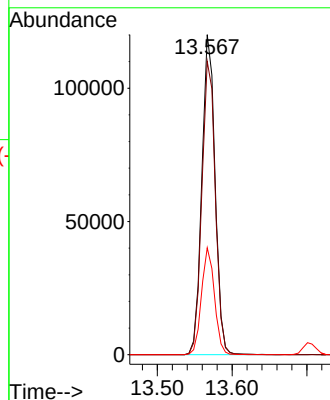
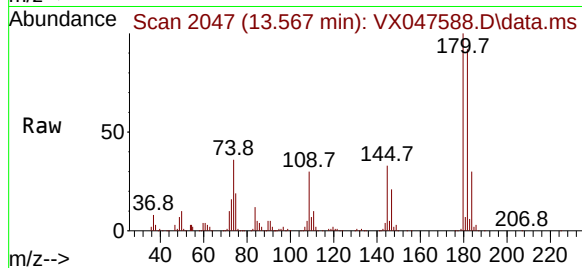
VSTDICCC050

Tgt Ion:	180	Resp:	147670
Ion Ratio	Lower	Upper	
180	100		
182	93.2	46.6	139.8
145	32.7	16.4	49.1

Manual Integrations
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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#94

Hexachlorobutadiene

Concen: 52.510 ug/l

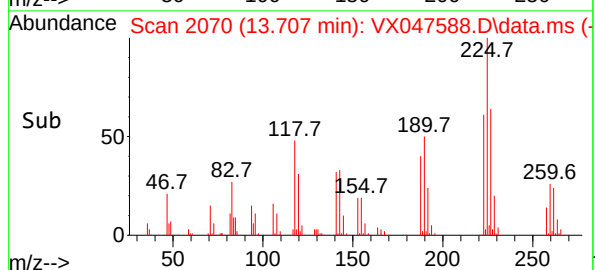
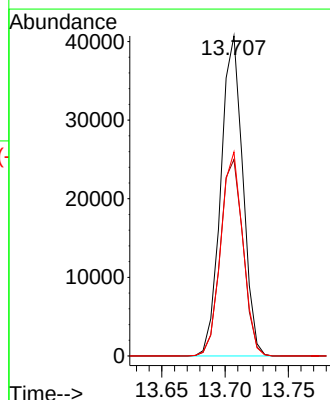
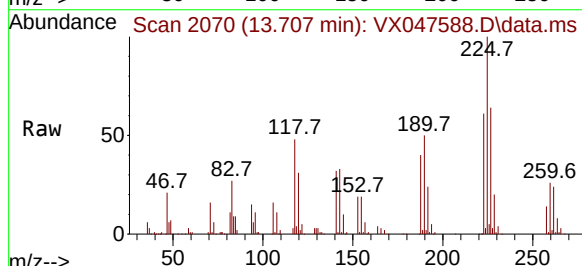
RT: 13.707 min Scan# 2070

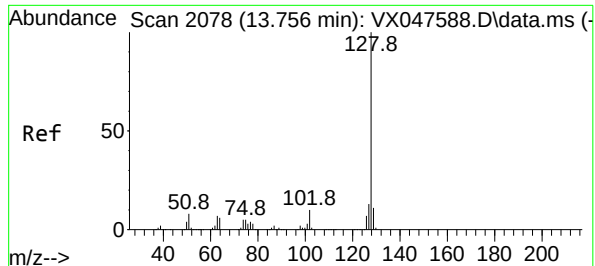
Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

Tgt Ion:	225	Resp:	49061
Ion Ratio	Lower	Upper	
225	100		
223	63.4	31.7	95.1
227	64.0	32.0	96.0





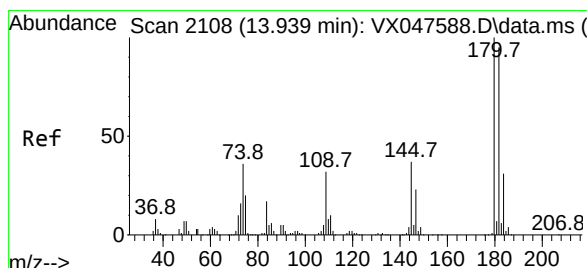
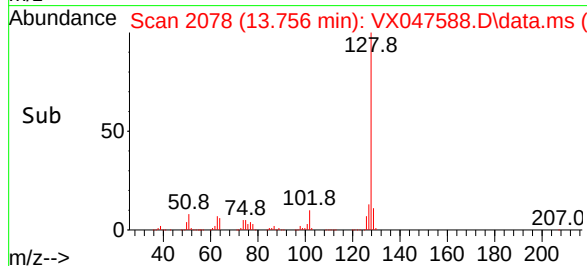
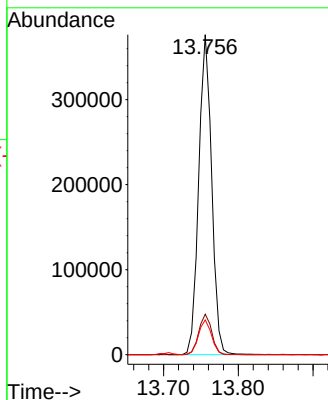
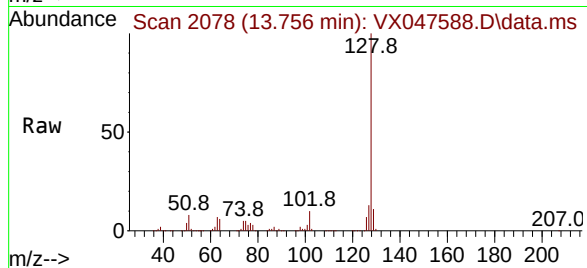
#95
Naphthalene
Concen: 53.966 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 45201
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 11.0 8.8 13.2

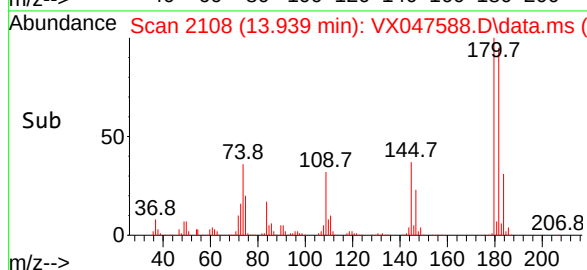
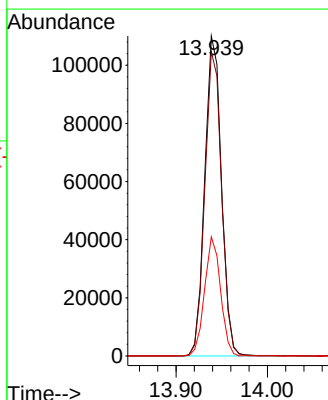
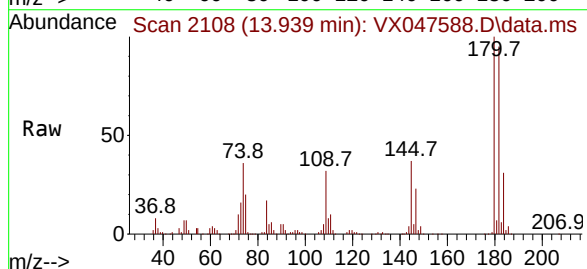
Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 54.316 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Tgt Ion:180 Resp: 138978
Ion Ratio Lower Upper
180 100
182 95.2 47.6 142.8
145 35.8 17.9 53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047589.D
 Acq On : 16 Sep 2025 11:40
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Quant Time: Sep 17 06:15:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	169280	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	298913	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	258399	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	122218	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	275758	102.341	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 204.680%#			
35) Dibromofluoromethane	5.361	113	212419	105.962	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 211.920%#			
50) Toluene-d8	8.629	98	724078	104.386	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 208.780%#			
62) 4-Bromofluorobenzene	11.061	95	270289	102.672	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 205.340%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	172727	98.537	ug/l	100
3) Chloromethane	1.301	50	229165	99.472	ug/l	100
4) Vinyl Chloride	1.380	62	229175	101.621	ug/l	100
5) Bromomethane	1.611	94	143113	100.076	ug/l	99
6) Chloroethane	1.691	64	152487	101.167	ug/l	99
7) Trichlorofluoromethane	1.892	101	344488	102.878	ug/l	100
8) Diethyl Ether	2.130	74	142038	103.695	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	199843	102.067	ug/l	99
10) Methyl Iodide	2.453	142	313092	102.531	ug/l	99
11) Tert butyl alcohol	2.947	59	152108	506.863	ug/l	98
12) 1,1-Dichloroethene	2.319	96	206097	102.473	ug/l	93
13) Acrolein	2.233	56	150793	545.276	ug/l	97
14) Allyl chloride	2.660	41	415140	100.028	ug/l	99
15) Acrylonitrile	3.056	53	581240	522.897	ug/l	100
16) Acetone	2.374	43	510542	435.772	ug/l	100
17) Carbon Disulfide	2.514	76	537888	97.693	ug/l	98
18) Methyl Acetate	2.697	43	292867	112.324	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	748952	102.011	ug/l	100
20) Methylene Chloride	2.782	84	242548	97.805	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	217759	100.566	ug/l	98
22) Diisopropyl ether	3.745	45	811840	100.934	ug/l	88
23) Vinyl Acetate	3.709	43	3314707	514.916	ug/l	99
24) 1,1-Dichloroethane	3.599	63	435815	101.944	ug/l	98
25) 2-Butanone	4.532	43	700827	479.558	ug/l	97
26) 2,2-Dichloropropane	4.465	77	357292	100.542	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	266550	100.516	ug/l	100
28) Bromochloromethane	4.873	49	198788	106.512	ug/l	99
29) Tetrahydrofuran	4.977	42	443530	504.502	ug/l	99
30) Chloroform	5.074	83	433937	100.447	ug/l	100
31) Cyclohexane	5.452	56	332995	93.523	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	372323	101.607	ug/l	99
36) 1,1-Dichloropropene	5.672	75	281650	96.149	ug/l	98
37) Ethyl Acetate	4.690	43	318793	101.641	ug/l	99
38) Carbon Tetrachloride	5.660	117	314745	98.891	ug/l	98
39) Methylcyclohexane	7.360	83	327858	98.600	ug/l	98
40) Benzene	6.019	78	880885	99.009	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047589.D
 Acq On : 16 Sep 2025 11:40
 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 09/17/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:15:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.891	41	168753	104.220	ug/l	99
42) 1,2-Dichloroethane	6.062	62	331465	97.916	ug/l	100
43) Isopropyl Acetate	6.318	43	516875	100.482	ug/l	99
44) Trichloroethene	7.104	130	217753	101.234	ug/l	96
45) 1,2-Dichloropropane	7.409	63	228150	100.145	ug/l	100
46) Dibromomethane	7.562	93	164987	99.519	ug/l	99
47) Bromodichloromethane	7.806	83	345991	101.136	ug/l	98
48) Methyl methacrylate	7.671	41	260358	101.612	ug/l	100
49) 1,4-Dioxane	7.641	88	56717	2190.315	ug/l	99
51) 4-Methyl-2-Pentanone	8.555	43	1431253	501.834	ug/l	100
52) Toluene	8.702	92	536148	97.811	ug/l	99
53) t-1,3-Dichloropropene	8.958	75	355881	101.986	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	380577	102.038	ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	205939	97.434	ug/l	97
56) Ethyl methacrylate	9.098	69	346659	104.435	ug/l	99
57) 1,3-Dichloropropane	9.293	76	362848	99.935	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.226	63	836362	499.814	ug/l	100
59) 2-Hexanone	9.415	43	996274	486.380	ug/l	100
60) Dibromochloromethane	9.506	129	251394	103.226	ug/l	99
61) 1,2-Dibromoethane	9.592	107	217751	101.147	ug/l	100
64) Tetrachloroethene	9.256	164	165559	98.284	ug/l	98
65) Chlorobenzene	10.061	112	588517	100.253	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	208621	102.988	ug/l	100
67) Ethyl Benzene	10.177	91	1031346	101.823	ug/l	100
68) m/p-Xylenes	10.287	106	763898	202.624	ug/l	99
69) o-Xylene	10.622	106	372621	102.186	ug/l	99
70) Styrene	10.634	104	649863	101.710	ug/l	100
71) Bromoform	10.781	173	161188	106.566	ug/l	98
73) Isopropylbenzene	10.945	105	954900	102.768	ug/l	100
74) N-amyl acetate	10.823	43	448344	105.812	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	281608	100.172	ug/l	98
76) 1,2,3-Trichloropropane	11.220	75	229521m	90.444	ug/l	
77) Bromobenzene	11.183	156	234666	102.541	ug/l	98
78) n-propylbenzene	11.287	91	1119728	101.941	ug/l	99
79) 2-Chlorotoluene	11.348	91	683867	101.652	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	787327	103.134	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	102555	105.689	ug/l	98
82) 4-Chlorotoluene	11.433	91	802929	101.054	ug/l	100
83) tert-Butylbenzene	11.695	119	791896	101.333	ug/l	100
84) 1,2,4-Trimethylbenzene	11.732	105	790557	102.144	ug/l	99
85) sec-Butylbenzene	11.872	105	945321	101.840	ug/l	100
86) p-Isopropyltoluene	11.994	119	797643	101.501	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	432248	101.689	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	431839	98.985	ug/l	100
89) n-Butylbenzene	12.311	91	757239	104.138	ug/l	99
90) Hexachloroethane	12.518	117	148048	107.304	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	414491	102.352	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	61029	107.225	ug/l	98
93) 1,2,4-Trichlorobenzene	13.567	180	278777	105.922	ug/l	100
94) Hexachlorobutadiene	13.707	225	92124	103.049	ug/l	99
95) Naphthalene	13.756	128	854492	106.620	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	263512	107.633	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047589.D
Acq On : 16 Sep 2025 11:40
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Sep 17 06:15:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

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\VX091625\
 Data File : VX047589.D
 Acq On : 16 Sep 2025 11:40
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

MSVOA_X

Client SampleId :

VSTDIC100

Manual Integrations

APPROVED

Reviewed By : John Carlone 09/17/2025

Supervised By : Mahesh Dadoda 09/18/2025

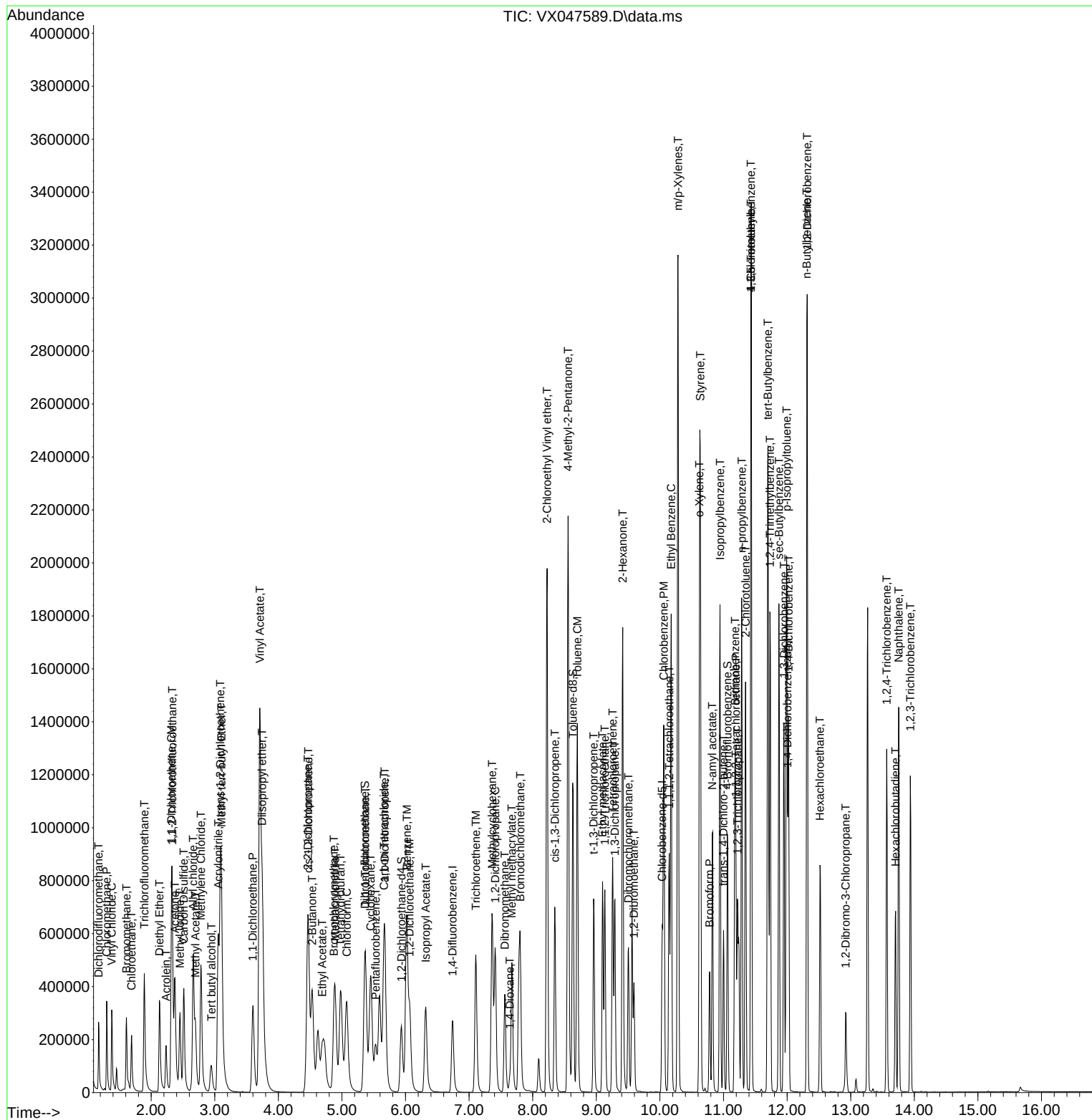
Quant Time: Sep 17 06:15:00 2025

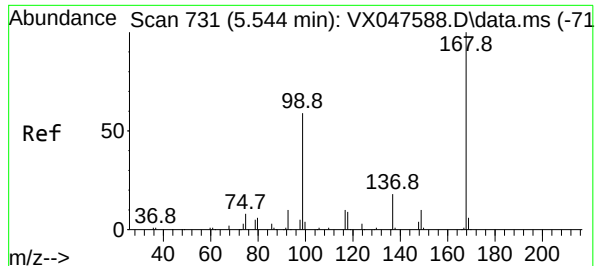
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M

Quant Title : SW846 8260

QLast Update : Wed Sep 17 06:04:35 2025

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 71

Delta R.T. -0.012 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:168 Resp: 169280

Ion Ratio Lower Upper

168 100

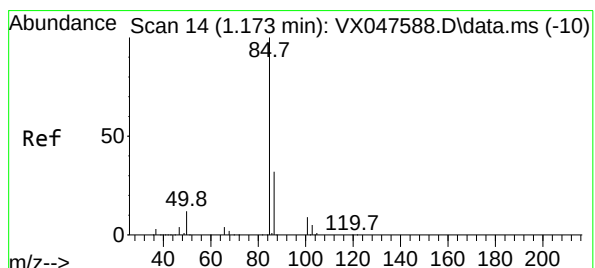
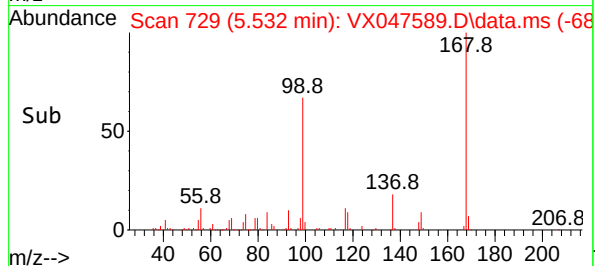
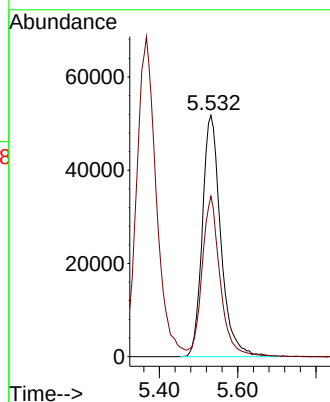
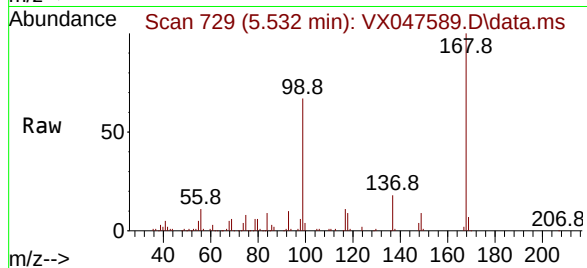
99 66.4 48.8 73.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#2

Dichlorodifluoromethane

Concen: 98.537 ug/l

RT: 1.173 min Scan# 14

Delta R.T. -0.000 min

Lab File: VX047589.D

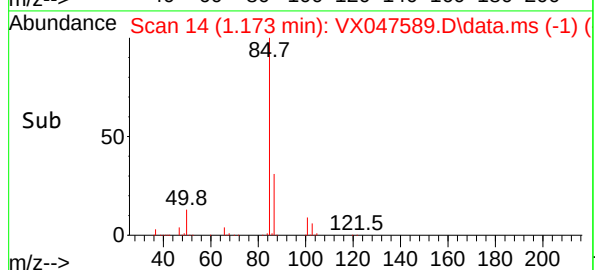
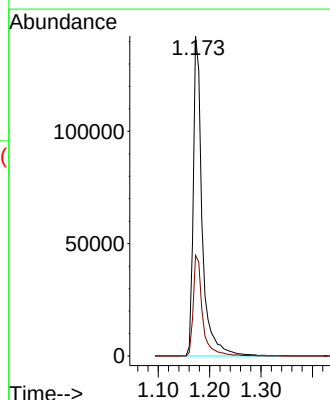
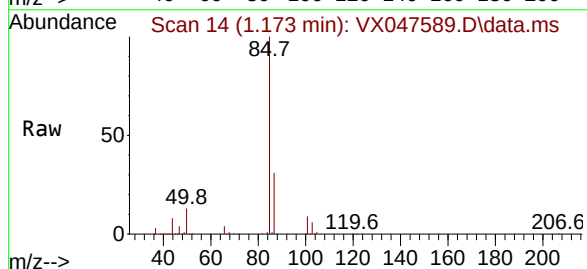
Acq: 16 Sep 2025 11:40

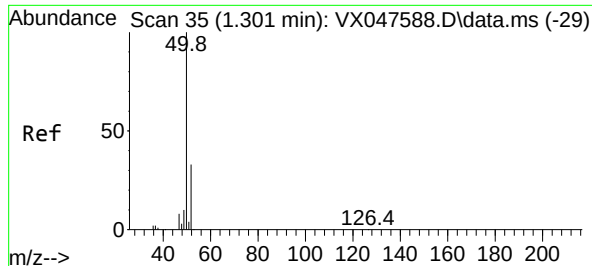
Tgt Ion: 85 Resp: 172727

Ion Ratio Lower Upper

85 100

87 31.4 15.8 47.3





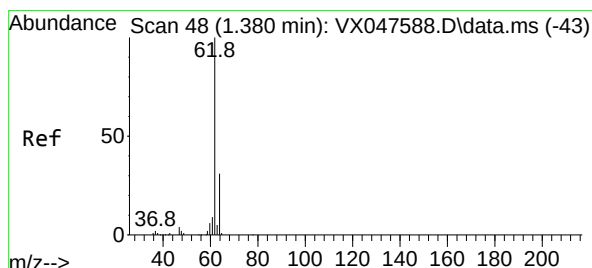
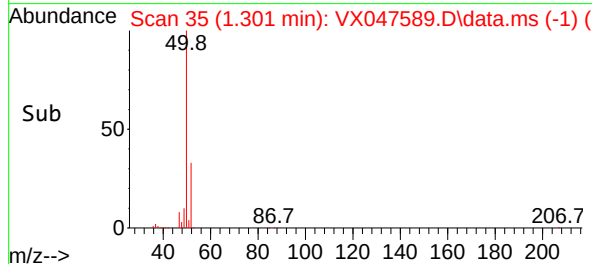
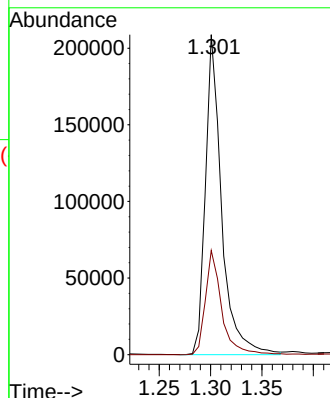
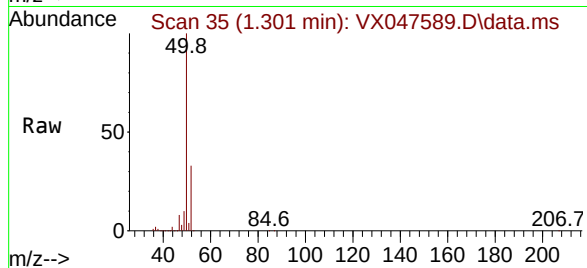
#3
Chloromethane
Concen: 99.472 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 22916
Ion Ratio Lower Upper
50 100
52 32.5 26.1 39.1

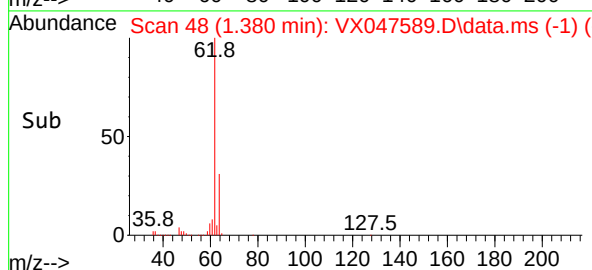
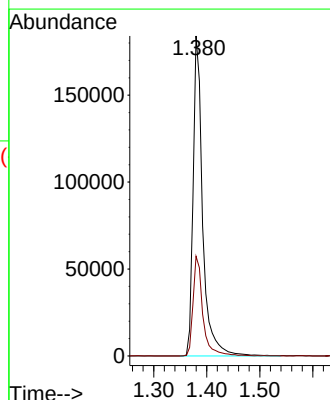
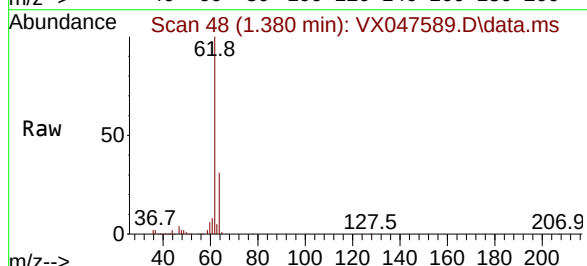
Manual Integrations
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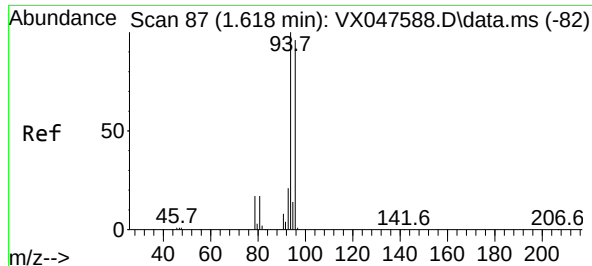
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#4
Vinyl Chloride
Concen: 101.621 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 62 Resp: 229175
Ion Ratio Lower Upper
62 100
64 31.1 24.9 37.3





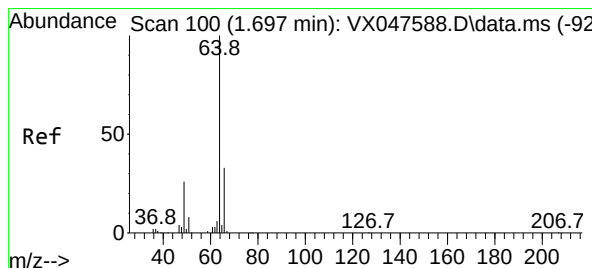
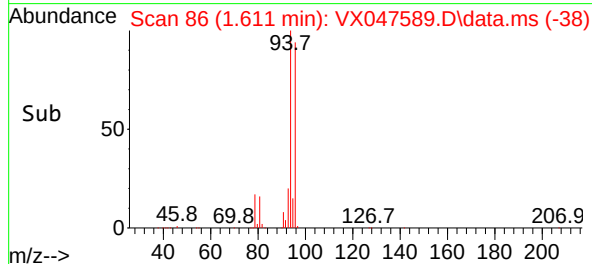
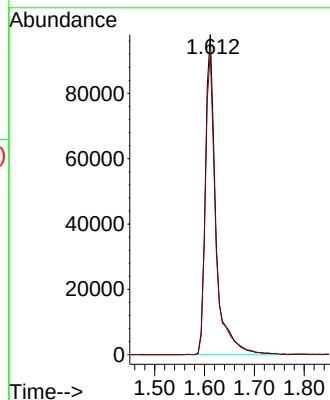
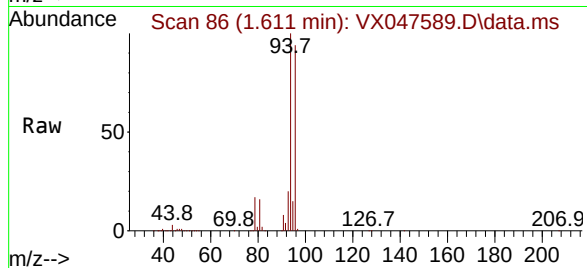
#5
Bromomethane
Concen: 100.076 ug/l
RT: 1.611 min Scan# 80
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
Client Sample Id :
VSTDICC100

Tgt Ion: 94 Resp: 14311
Ion Ratio Lower Upper
94 100
96 94.4 76.6 115.0

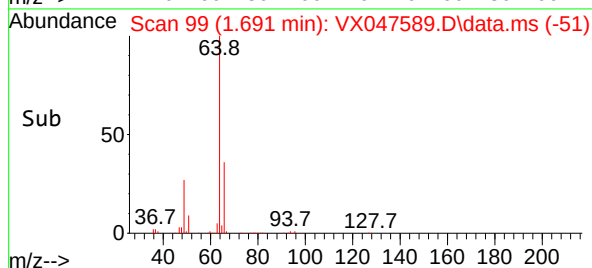
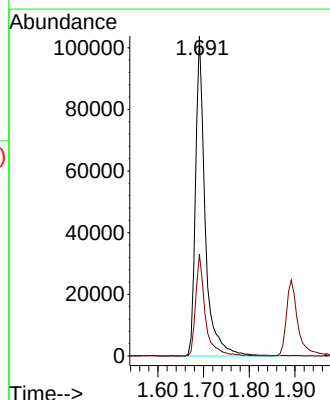
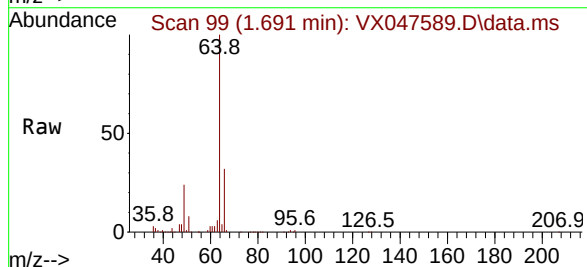
Manual Integrations
APPROVED

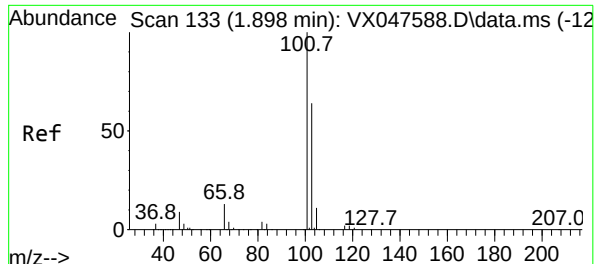
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#6
Chloroethane
Concen: 101.167 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 64 Resp: 152487
Ion Ratio Lower Upper
64 100
66 31.8 26.1 39.1





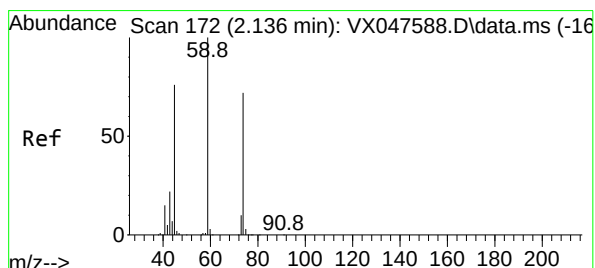
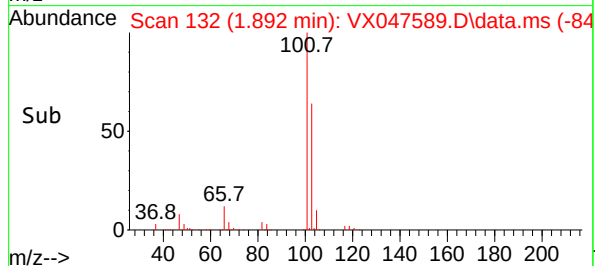
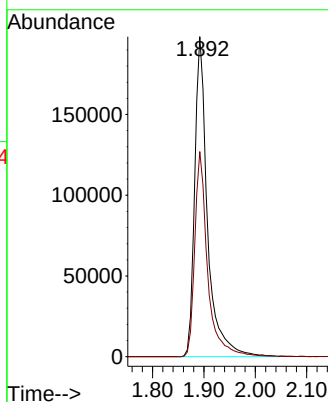
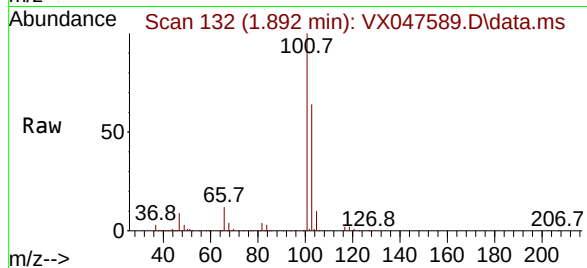
#7
Trichlorofluoromethane
Concen: 102.878 ug/l
RT: 1.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 34448
Ion Ratio Lower Upper
101 100
103 64.1 51.4 77.2

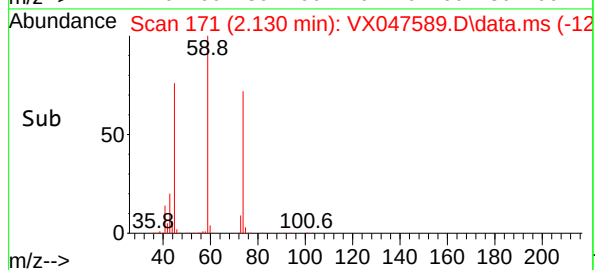
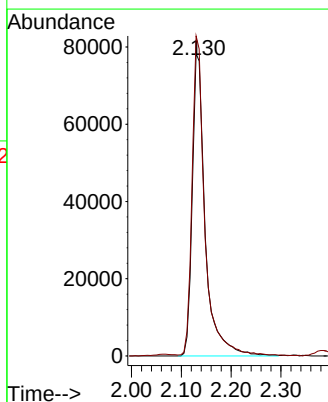
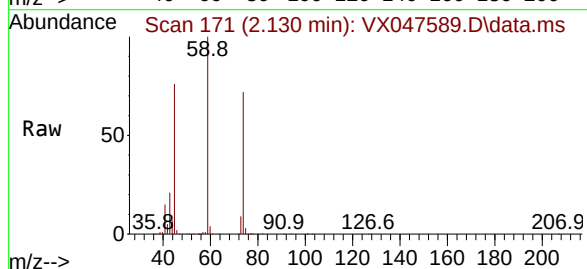
Manual Integrations
APPROVED

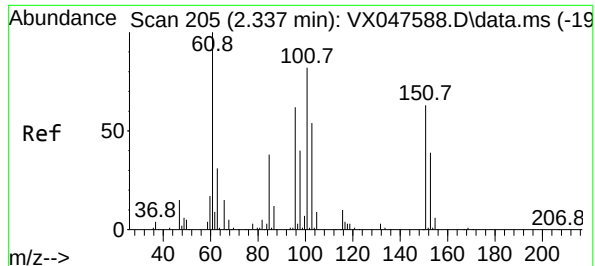
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#8
Diethyl Ether
Concen: 103.695 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 74 Resp: 142038
Ion Ratio Lower Upper
74 100
45 104.6 52.3 156.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 102.067 ug/l

RT: 2.331 min Scan# 205

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

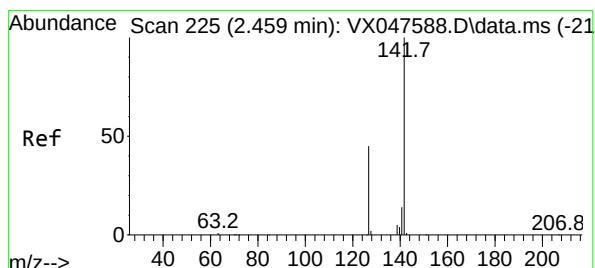
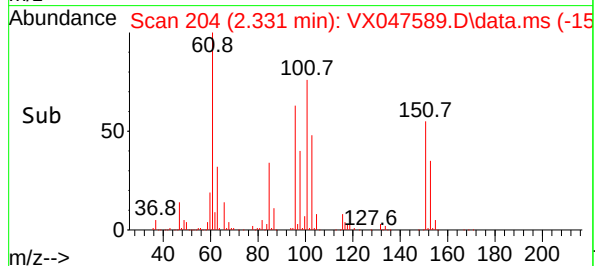
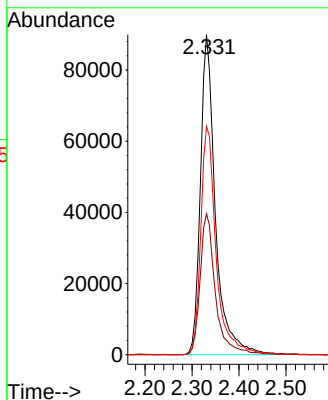
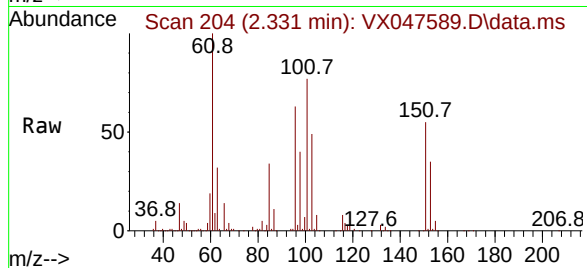
VSTDICC100

Tgt Ion:	101	Resp:	19984
Ion Ratio	Lower	Upper	
101	100		
85	45.1	35.5	53.3
151	73.6	59.4	89.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#10

Methyl Iodide

Concen: 102.531 ug/l

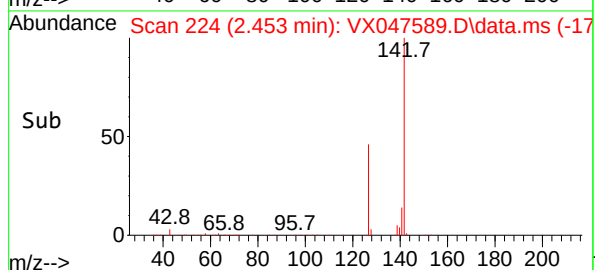
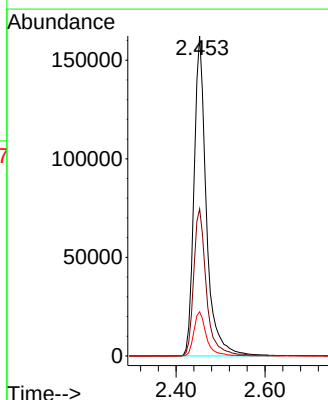
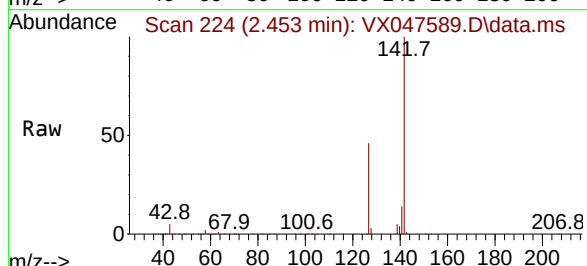
RT: 2.453 min Scan# 224

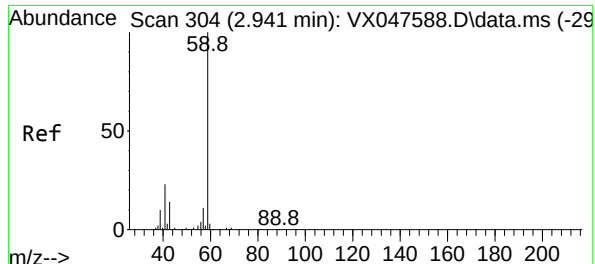
Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Tgt Ion:	142	Resp:	313092
Ion Ratio	Lower	Upper	
142	100		
127	47.3	37.2	55.8
141	14.1	11.4	17.0





#11

Tert butyl alcohol

Concen: 506.863 ug/l

RT: 2.947 min Scan# 304

Delta R.T. 0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 59 Resp: 152108

Ion Ratio Lower Upper

59 100

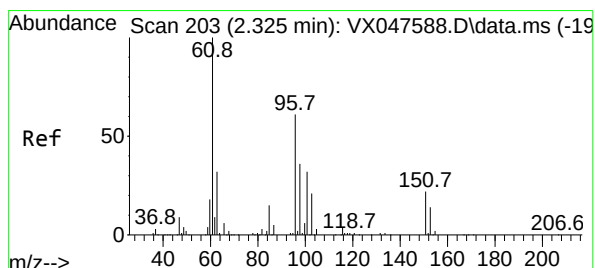
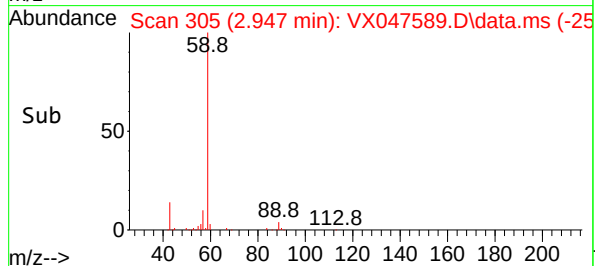
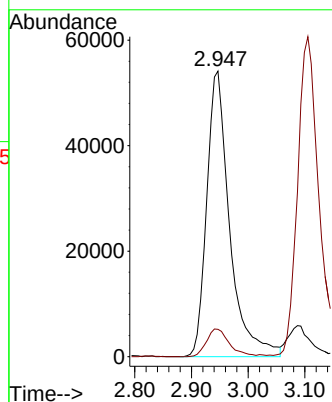
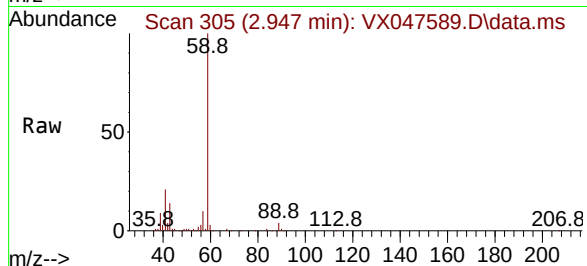
57 9.7 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#12

1,1-Dichloroethene

Concen: 102.473 ug/l

RT: 2.319 min Scan# 202

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

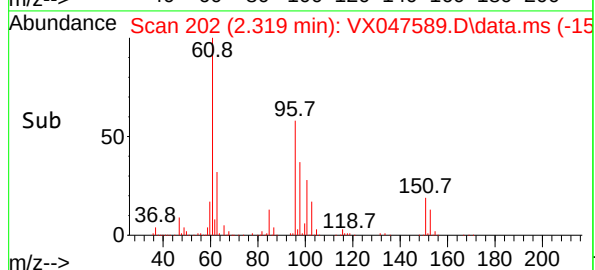
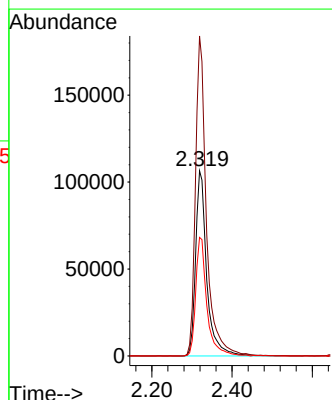
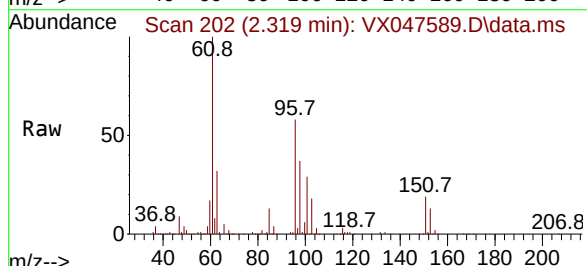
Tgt Ion: 96 Resp: 206097

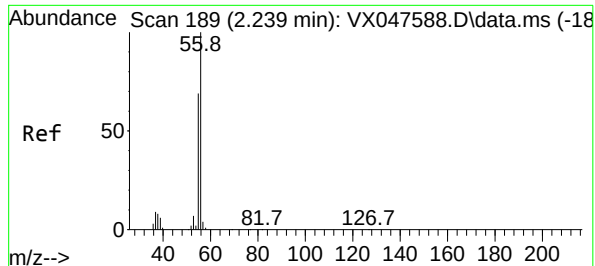
Ion Ratio Lower Upper

96 100

61 172.9 131.0 196.6

98 64.0 47.7 71.5





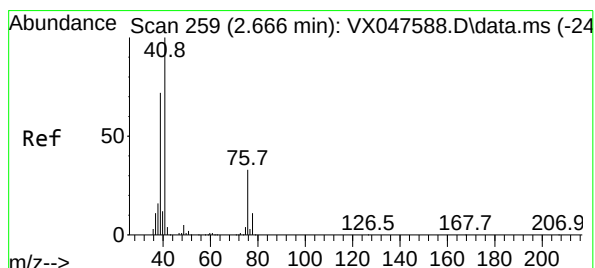
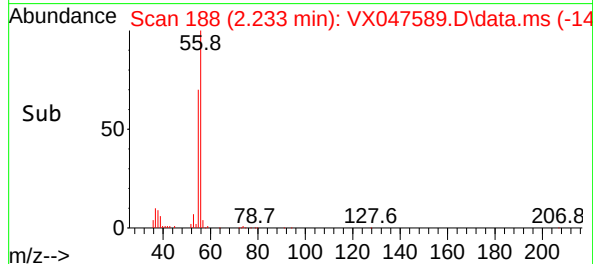
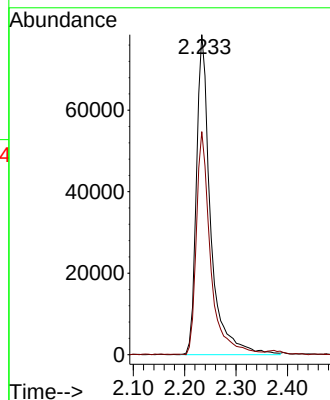
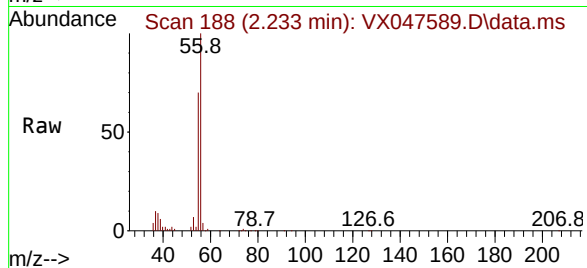
#13
Acrolein
Concen: 545.276 ug/l
RT: 2.233 min Scan# 188
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 15079
Ion Ratio Lower Upper
56 100
55 69.4 57.2 85.8

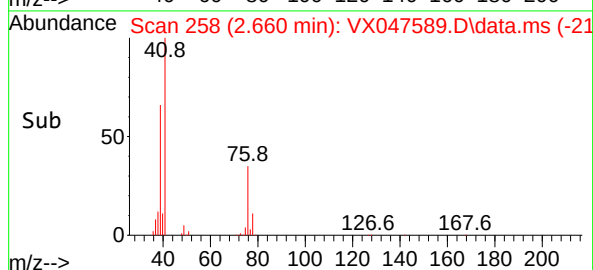
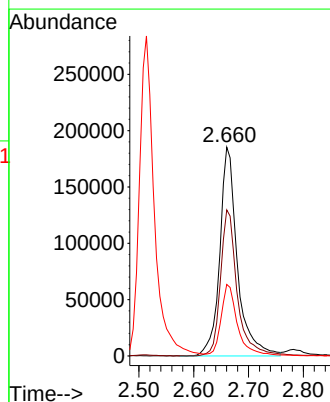
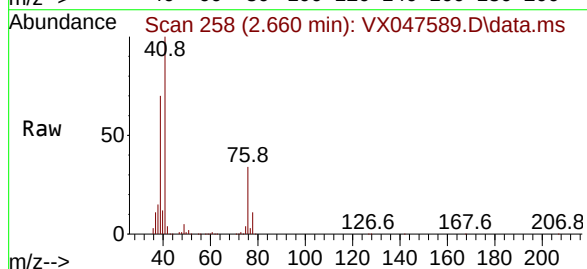
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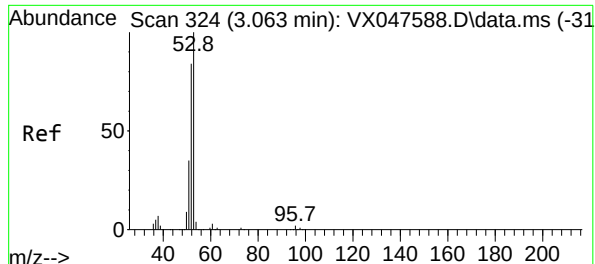
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#14
Allyl chloride
Concen: 100.028 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 41 Resp: 415140
Ion Ratio Lower Upper
41 100
39 67.0 54.7 82.1
76 32.2 25.7 38.5





#15

Acrylonitrile

Concen: 522.897 ug/l

RT: 3.056 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 53 Resp: 581240

Ion Ratio Lower Upper

53 100

52 82.9 66.4 99.6

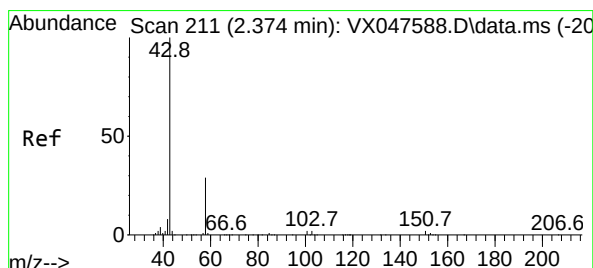
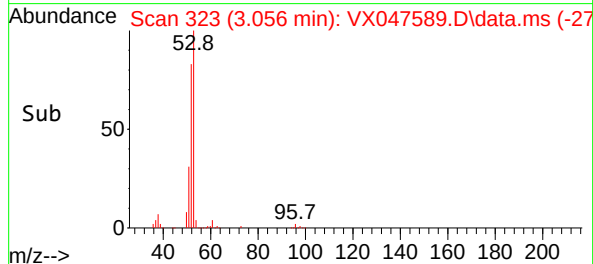
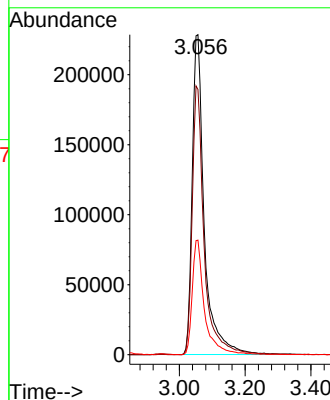
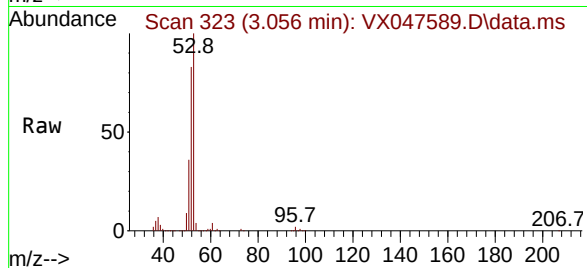
51 36.4 29.5 44.3

Manual Integrations

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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#16

Acetone

Concen: 435.772 ug/l

RT: 2.374 min Scan# 211

Delta R.T. -0.000 min

Lab File: VX047589.D

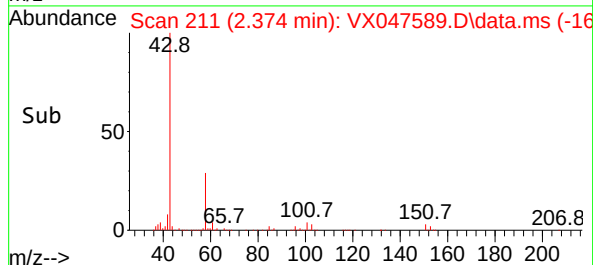
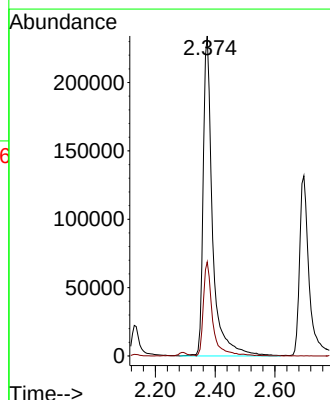
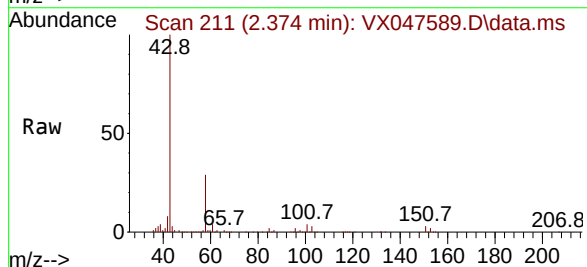
Acq: 16 Sep 2025 11:40

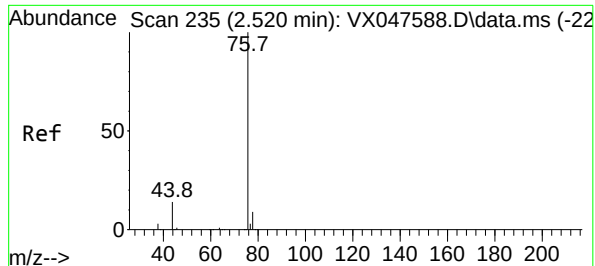
Tgt Ion: 43 Resp: 510542

Ion Ratio Lower Upper

43 100

58 29.4 23.4 35.0





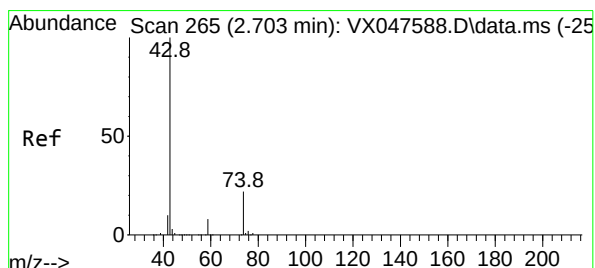
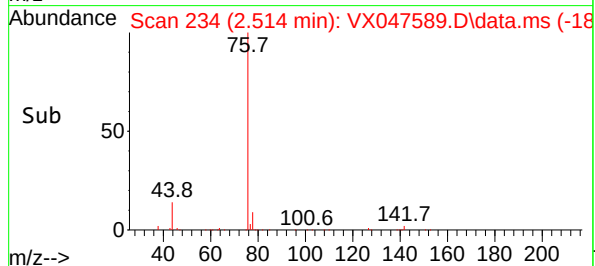
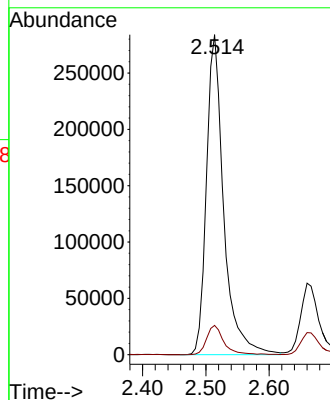
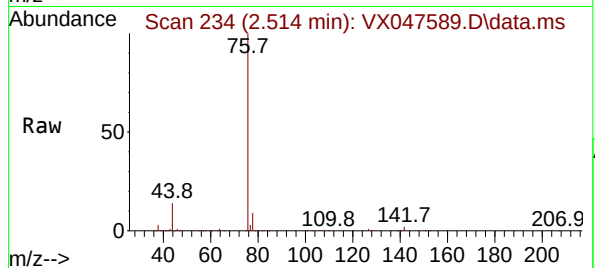
#17
Carbon Disulfide
Concen: 97.693 ug/l
RT: 2.514 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 53788
Ion Ratio Lower Upper
76 100
78 9.2 6.8 10.2

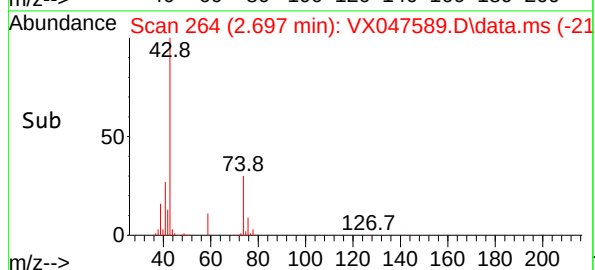
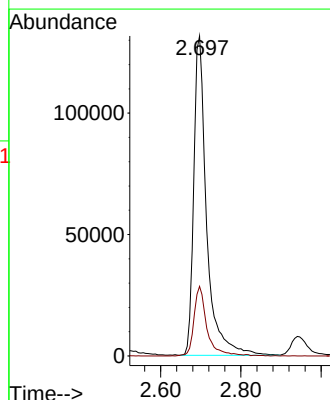
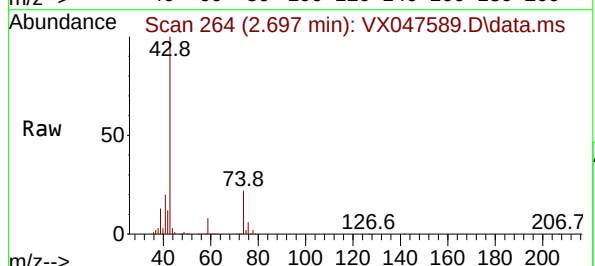
Manual Integrations
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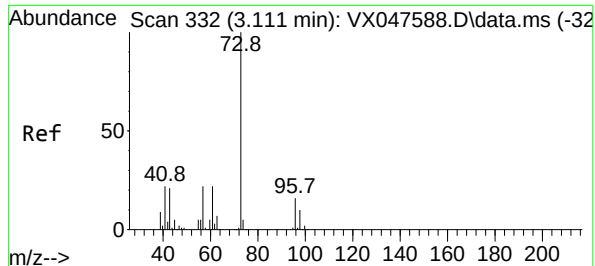
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#18
Methyl Acetate
Concen: 112.324 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 292867
Ion Ratio Lower Upper
43 100
74 21.8 17.4 26.2





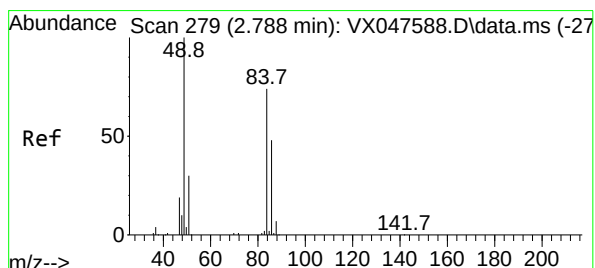
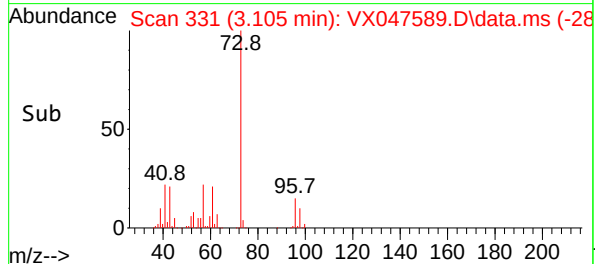
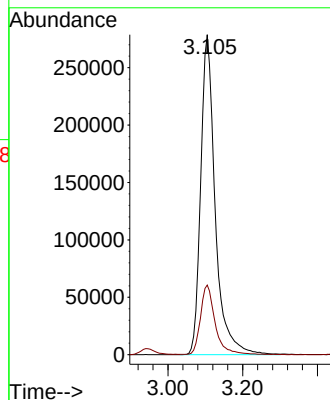
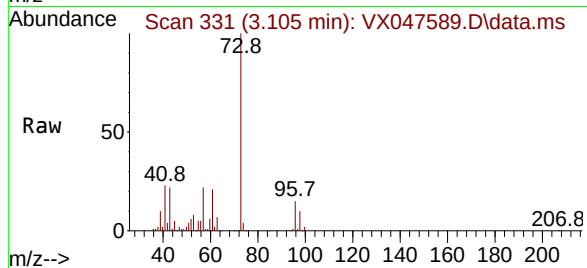
#19
Methyl tert-butyl Ether
Concen: 102.011 ug/l
RT: 3.105 min Scan# 311
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 748952
Ion Ratio Lower Upper
73 100
57 21.7 17.4 26.2

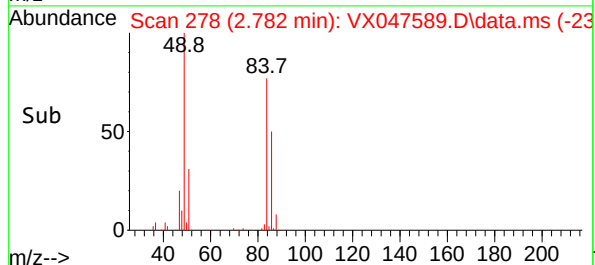
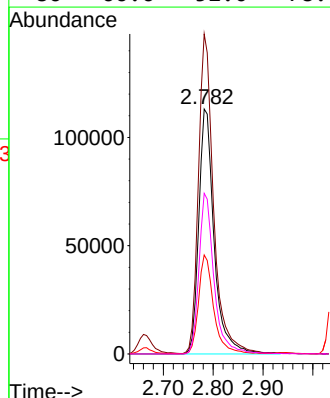
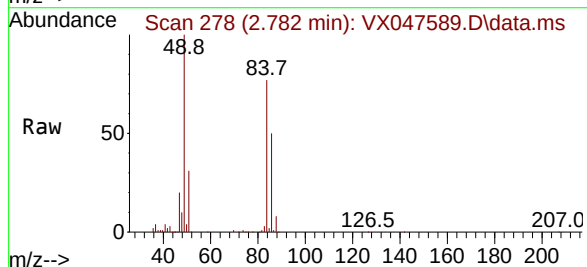
Manual Integrations
APPROVED

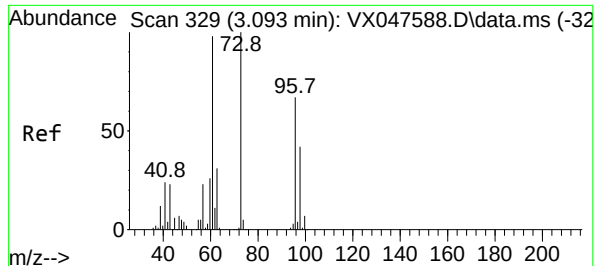
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#20
Methylene Chloride
Concen: 97.805 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

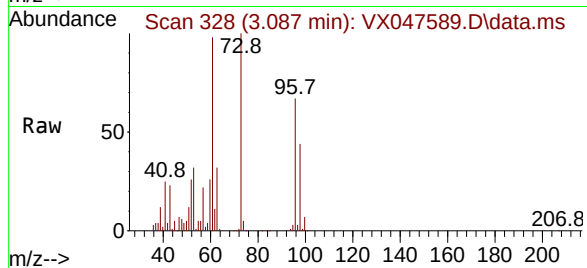
Tgt Ion: 84 Resp: 242548
Ion Ratio Lower Upper
84 100
49 130.4 108.6 162.8
51 40.3 32.6 48.8
86 66.6 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 100.566 ug/l
RT: 3.087 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

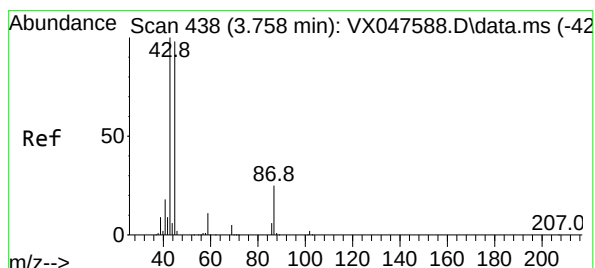
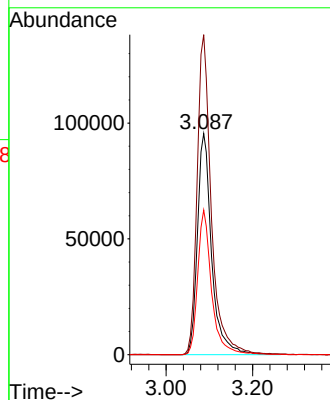
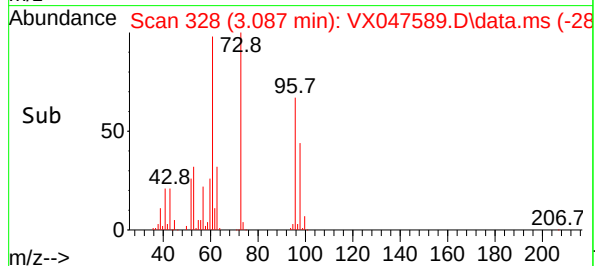
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 96 Resp: 21775
Ion Ratio Lower Upper
96 100
61 144.7 116.2 174.2
98 65.4 49.3 73.9

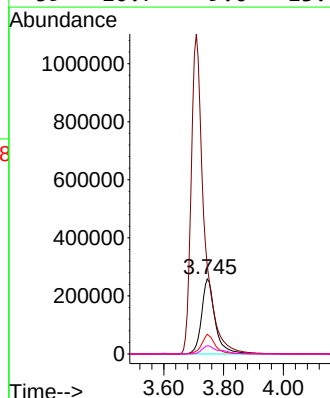
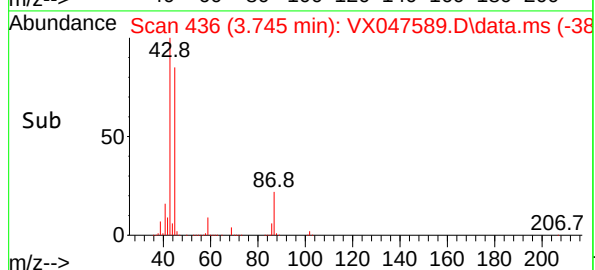
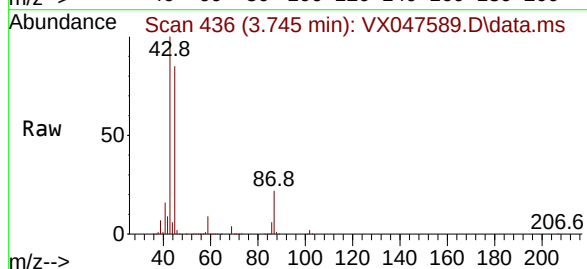
Manual Integrations
APPROVED

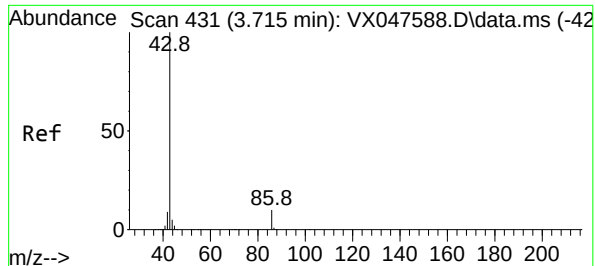
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#22
Diisopropyl ether
Concen: 100.934 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 45 Resp: 811840
Ion Ratio Lower Upper
45 100
43 117.3 81.0 121.4
87 26.1 20.3 30.5
59 10.7 9.0 13.4





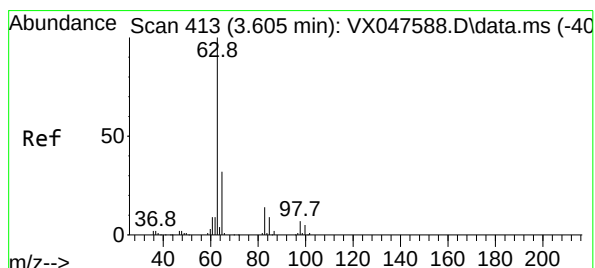
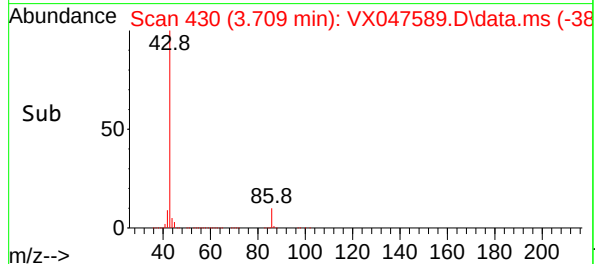
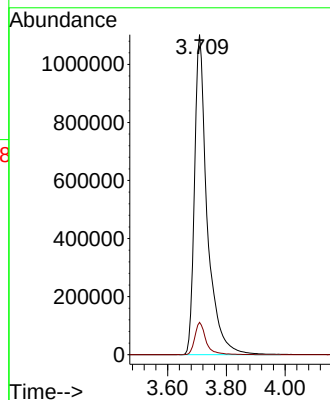
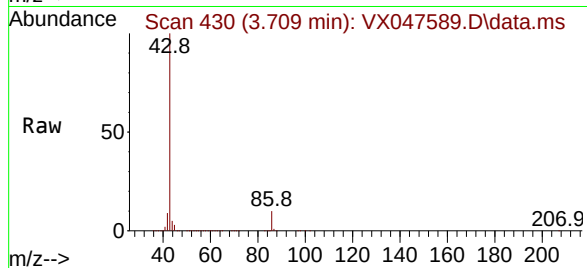
#23
Vinyl Acetate
Concen: 514.916 ug/l
RT: 3.709 min Scan# 411
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 331470
Ion Ratio Lower Upper
43 100
86 10.1 7.8 11.8

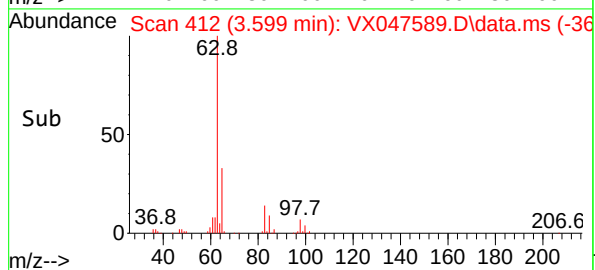
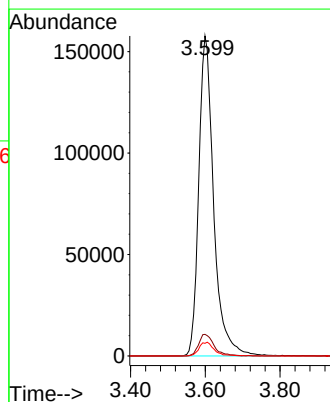
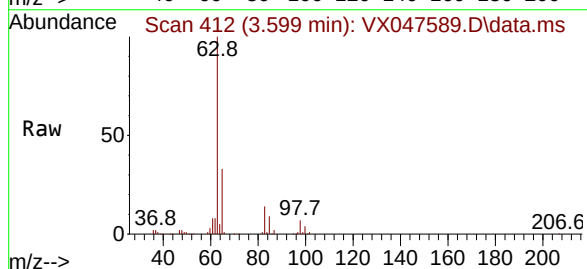
Manual Integrations
APPROVED

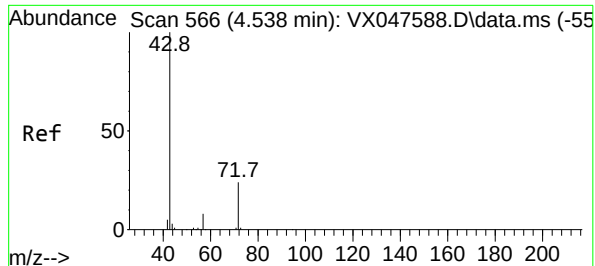
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#24
1,1-Dichloroethane
Concen: 101.944 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 63 Resp: 435815
Ion Ratio Lower Upper
63 100
98 6.7 3.8 11.2
100 4.0 2.3 6.9





#25

2-Butanone

Concen: 479.558 ug/l

RT: 4.532 min Scan# 50

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 70082

Ion Ratio Lower Upper

43 100

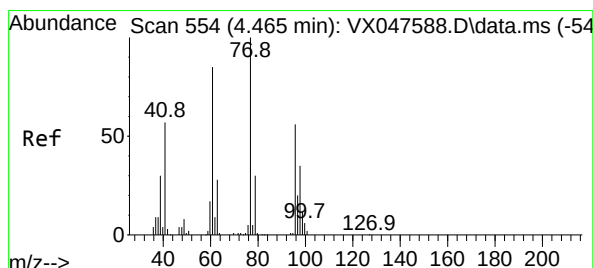
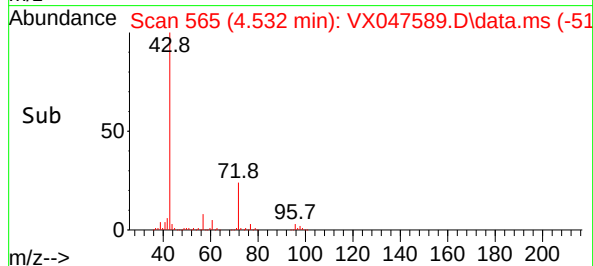
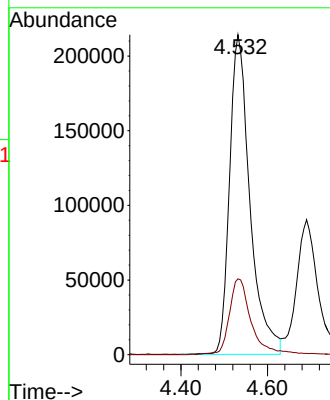
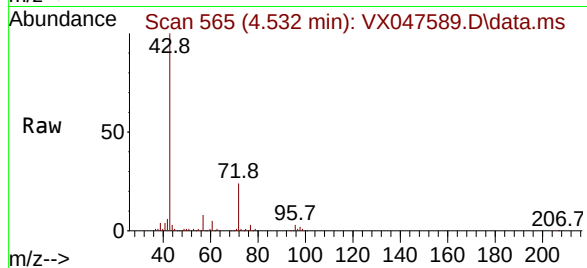
72 23.8 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#26

2,2-Dichloropropane

Concen: 100.542 ug/l

RT: 4.465 min Scan# 554

Delta R.T. -0.000 min

Lab File: VX047589.D

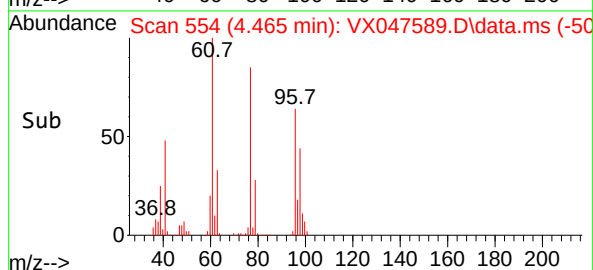
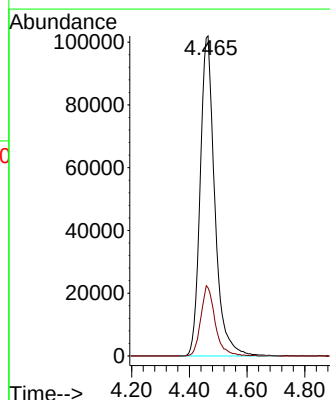
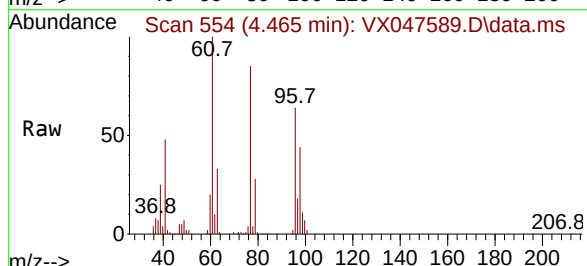
Acq: 16 Sep 2025 11:40

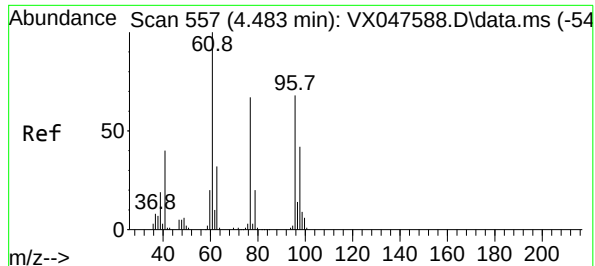
Tgt Ion: 77 Resp: 357292

Ion Ratio Lower Upper

77 100

97 21.6 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 100.516 ug/l

RT: 4.471 min Scan# 51

Delta R.T. -0.012 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 96 Resp: 266550

Ion Ratio Lower Upper

96 100

61 151.5 0.0 303.2

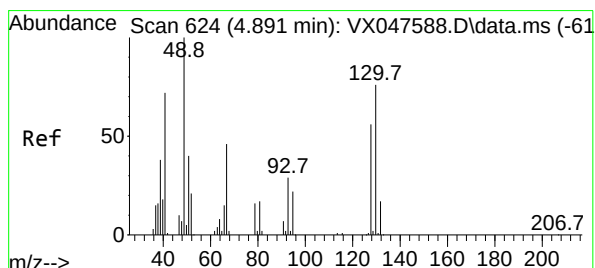
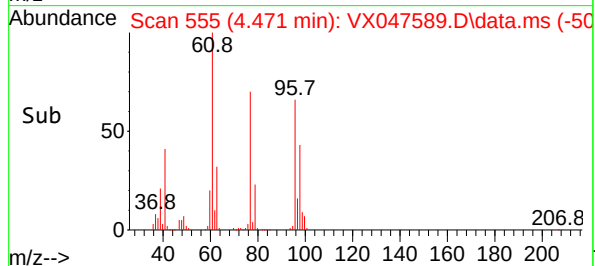
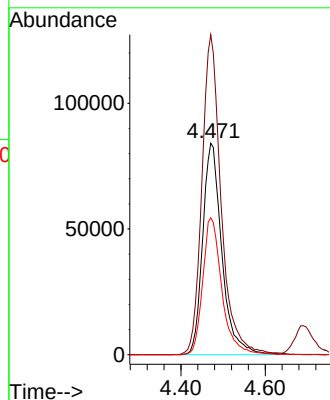
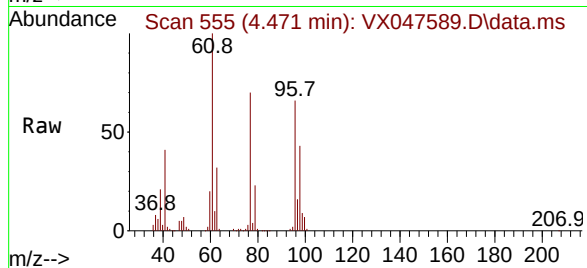
98 64.4 0.0 127.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#28

Bromochloromethane

Concen: 106.512 ug/l

RT: 4.873 min Scan# 621

Delta R.T. -0.018 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

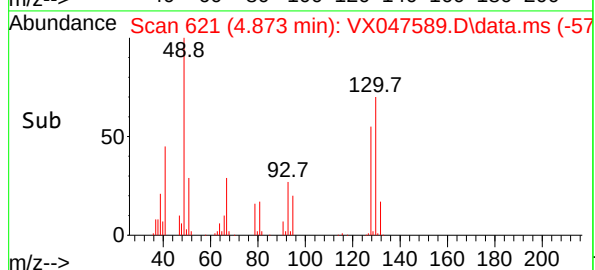
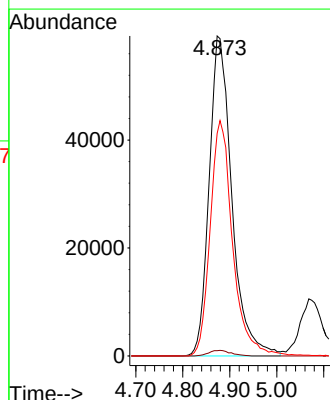
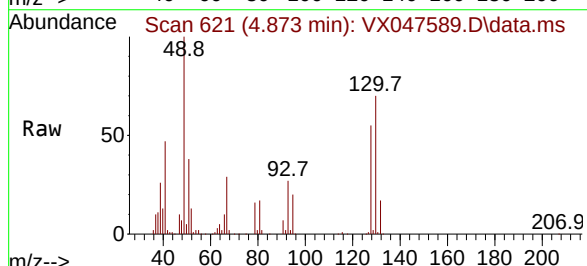
Tgt Ion: 49 Resp: 198788

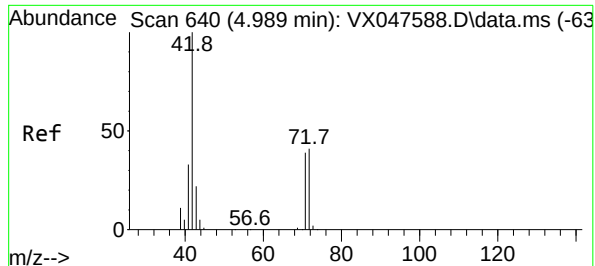
Ion Ratio Lower Upper

49 100

129 1.7 0.0 3.2

130 72.8 57.8 86.8





#29

Tetrahydrofuran

Concen: 504.502 ug/l

RT: 4.977 min Scan# 61

Delta R.T. -0.012 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 42 Resp: 443530

Ion Ratio Lower Upper

42 100

72 42.4 34.2 51.2

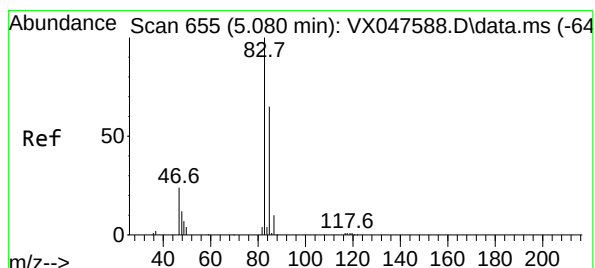
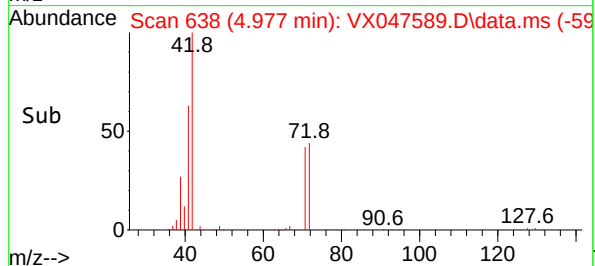
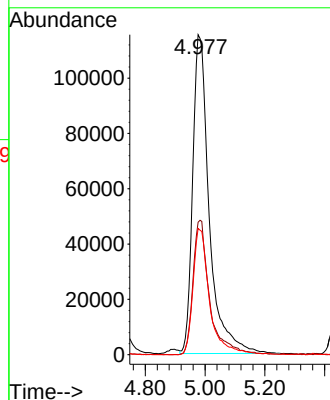
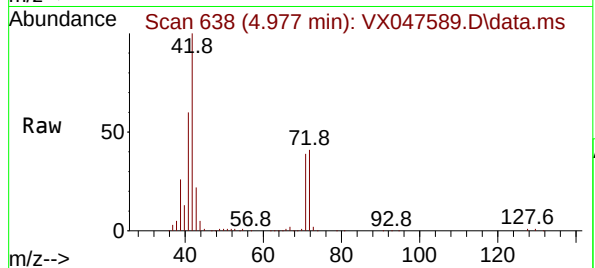
71 39.5 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

Chloroform

Concen: 100.447 ug/l

RT: 5.074 min Scan# 654

Delta R.T. -0.006 min

Lab File: VX047589.D

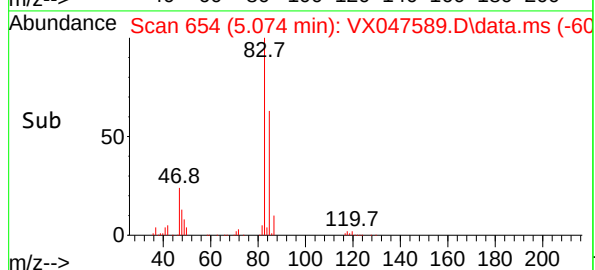
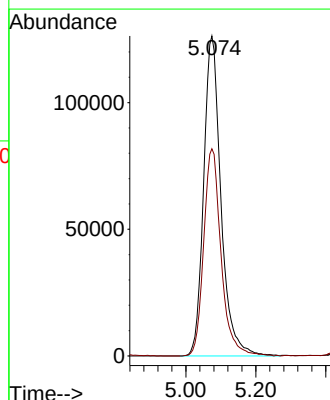
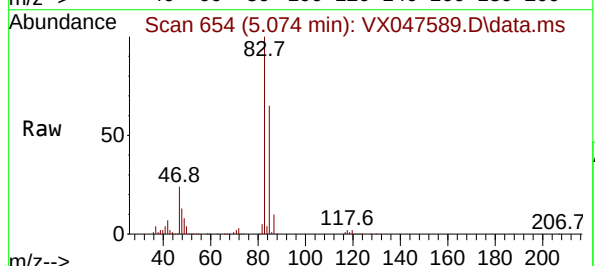
Acq: 16 Sep 2025 11:40

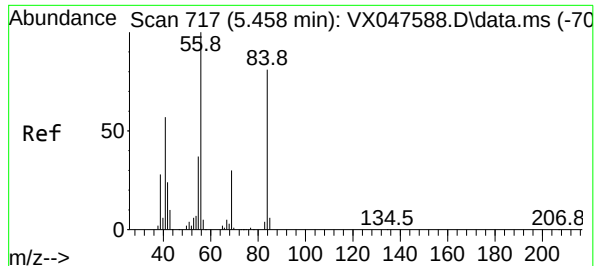
Tgt Ion: 83 Resp: 433937

Ion Ratio Lower Upper

83 100

85 64.8 51.8 77.6





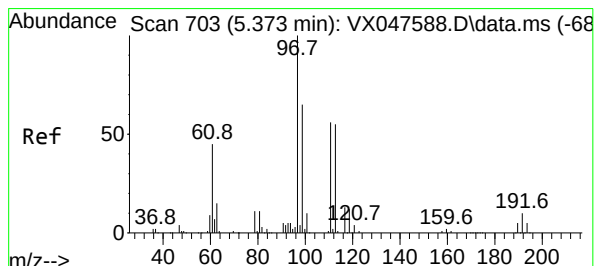
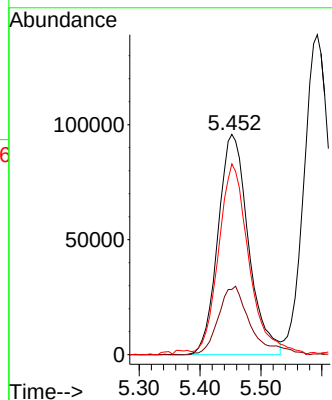
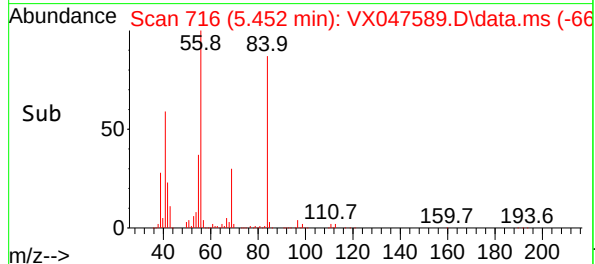
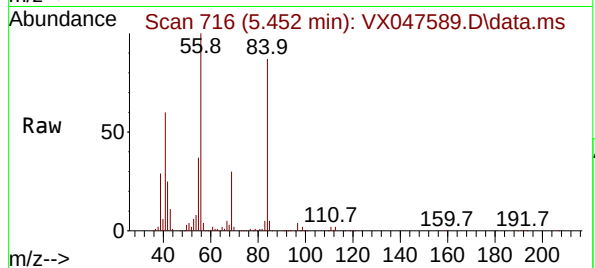
#31
Cyclohexane
Concen: 93.523 ug/l
RT: 5.452 min Scan# 716
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 33299
Ion Ratio Lower Upper
56 100
69 29.0 23.8 35.8
84 84.7 64.6 97.0

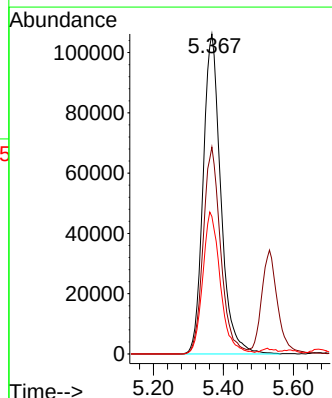
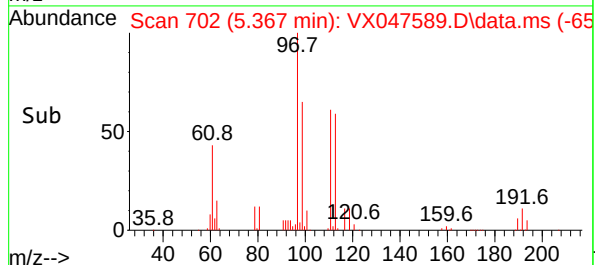
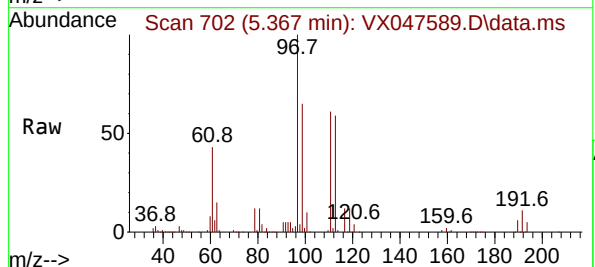
Manual Integrations
APPROVED

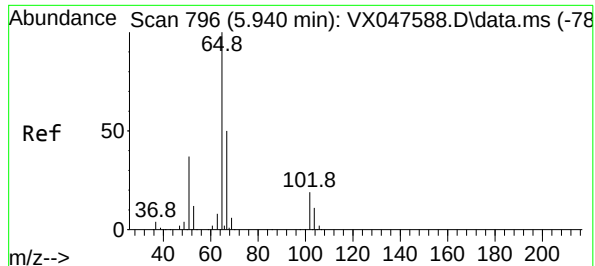
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#32
1,1,1-Trichloroethane
Concen: 101.607 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 97 Resp: 372323
Ion Ratio Lower Upper
97 100
99 63.8 50.6 76.0
61 44.4 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 102.341 ug/l

RT: 5.934 min Scan# 796

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 65 Resp: 275758

Ion Ratio Lower Upper

65 100

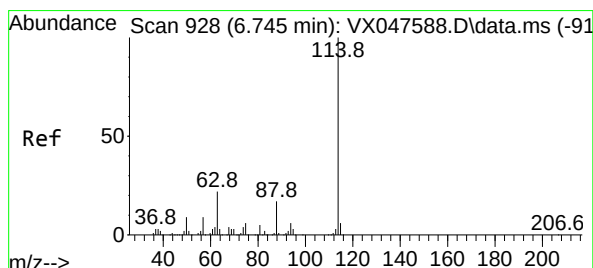
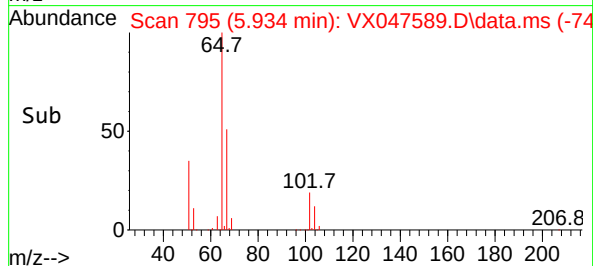
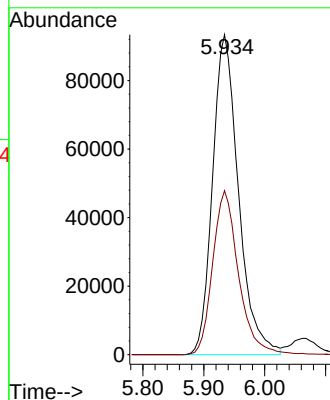
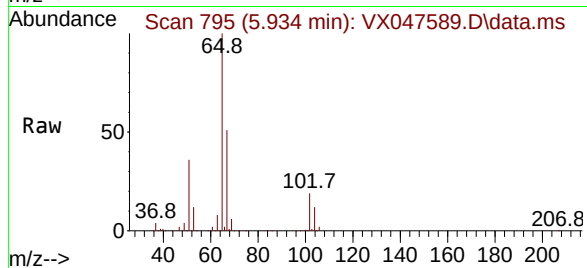
67 51.3 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.739 min Scan# 927

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

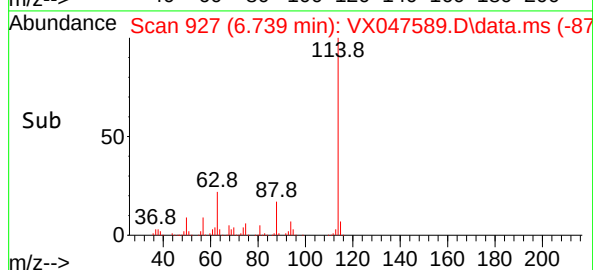
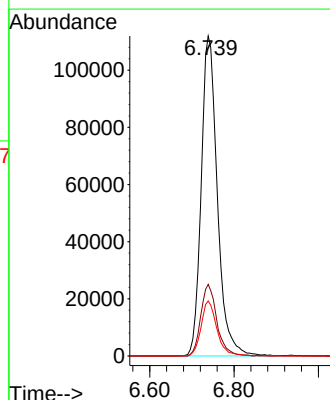
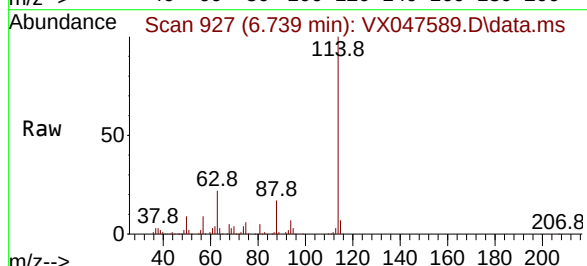
Tgt Ion:114 Resp: 298913

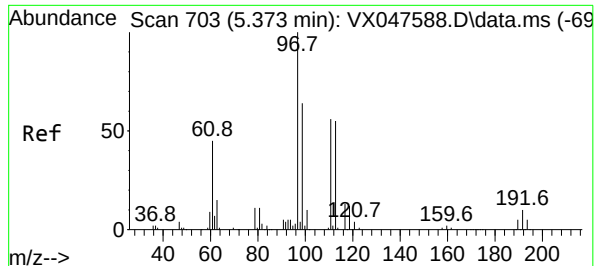
Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.0

88 17.2 0.0 34.2





#35

Dibromofluoromethane

Concen: 105.962 ug/l

RT: 5.361 min Scan# 703

Delta R.T. -0.012 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

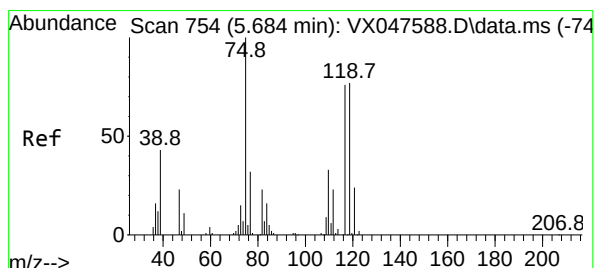
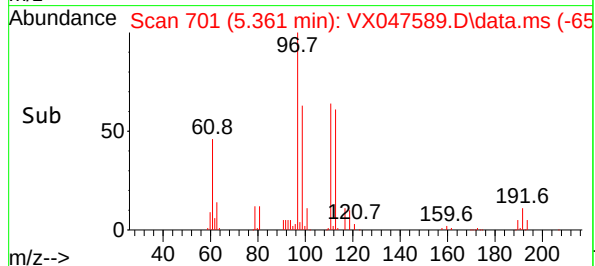
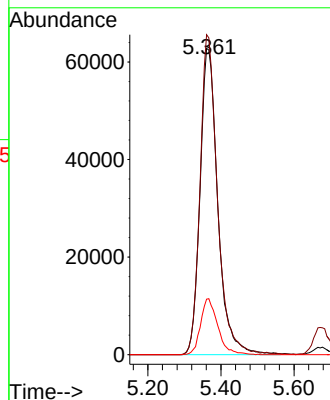
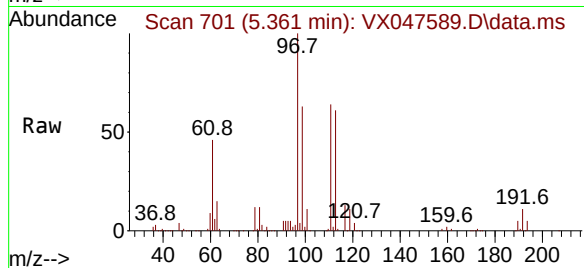
VSTDIC100

Tgt Ion:	113	Resp:	212419
Ion	Ratio	Lower	Upper
113	100		
111	101.8	80.9	121.3
192	17.7	14.2	21.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#36

1,1-Dichloropropene

Concen: 96.149 ug/l

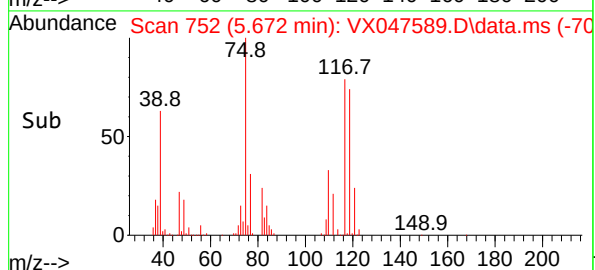
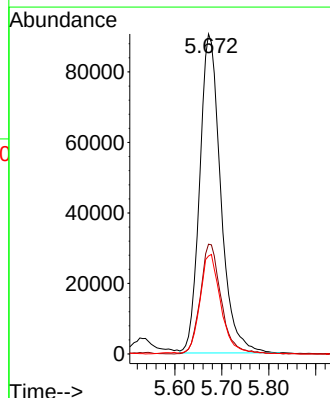
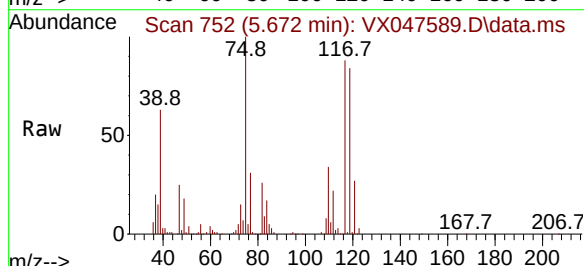
RT: 5.672 min Scan# 752

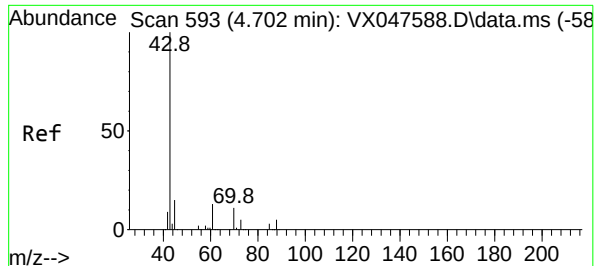
Delta R.T. -0.012 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Tgt Ion:	75	Resp:	281650
Ion	Ratio	Lower	Upper
75	100		
110	34.3	16.7	50.1
77	31.3	24.3	36.5





#37

Ethyl Acetate

Concen: 101.641 ug/l

RT: 4.690 min Scan# 591

Delta R.T. -0.012 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

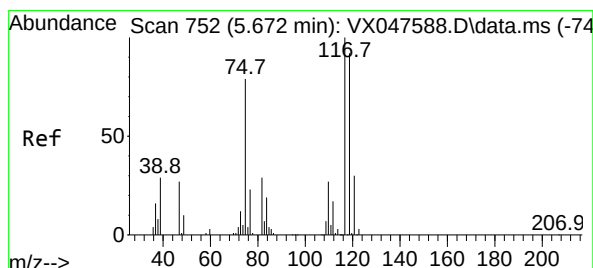
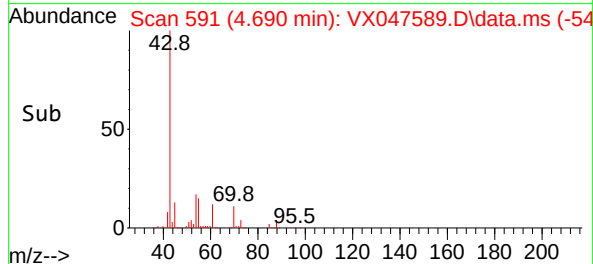
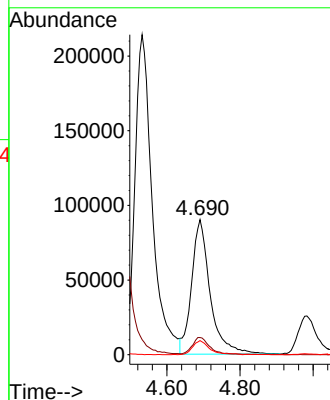
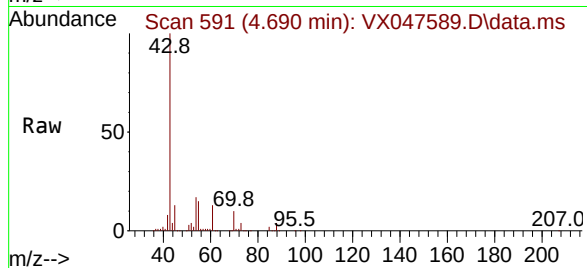
VSTDICC100

Tgt Ion:	43	Resp:	31879
Ion	Ratio	Lower	Upper
43	100		
61	12.0	9.8	14.8
70	9.4	7.9	11.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#38

Carbon Tetrachloride

Concen: 98.891 ug/l

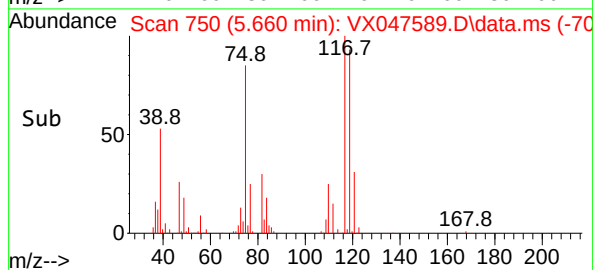
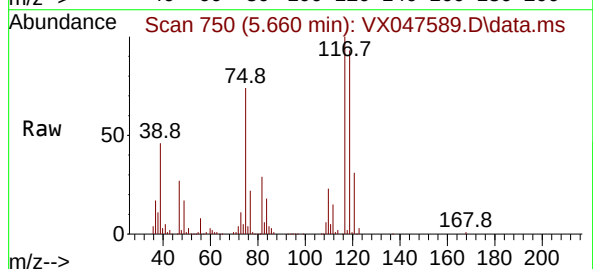
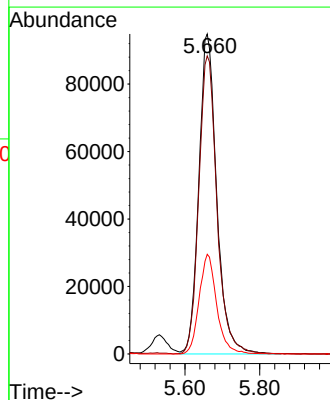
RT: 5.660 min Scan# 750

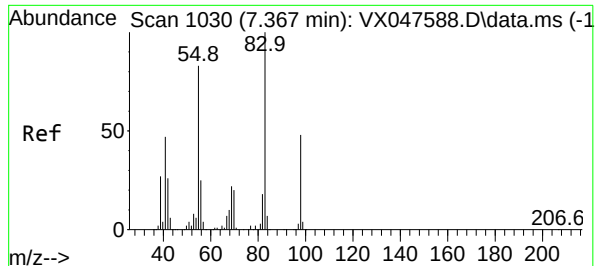
Delta R.T. -0.012 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Tgt Ion:	117	Resp:	314745
Ion	Ratio	Lower	Upper
117	100		
119	93.0	73.4	110.2
121	31.2	23.8	35.6





#39

Methylcyclohexane

Concen: 98.600 ug/l

RT: 7.360 min Scan# 1030

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 32785

Ion Ratio Lower Upper

83 100

55 81.8 66.4 99.6

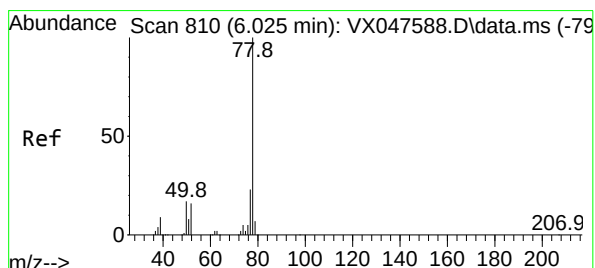
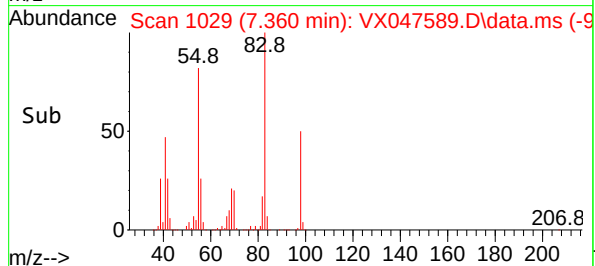
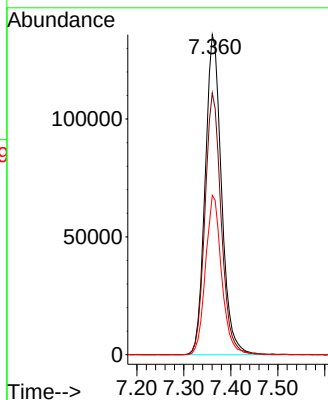
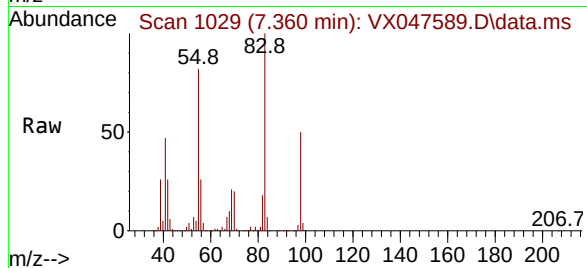
98 49.8 38.1 57.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#40

Benzene

Concen: 99.009 ug/l

RT: 6.019 min Scan# 809

Delta R.T. -0.006 min

Lab File: VX047589.D

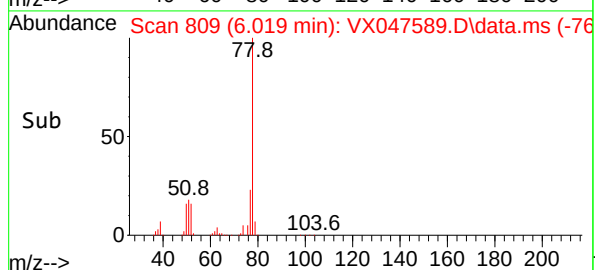
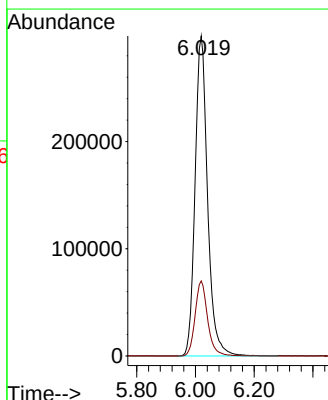
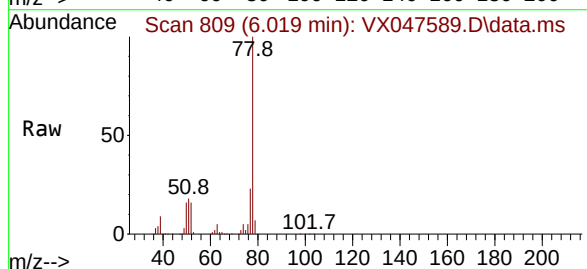
Acq: 16 Sep 2025 11:40

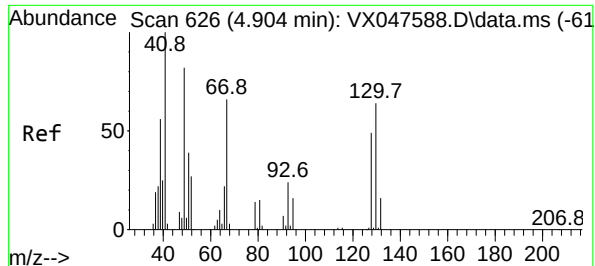
Tgt Ion: 78 Resp: 880885

Ion Ratio Lower Upper

78 100

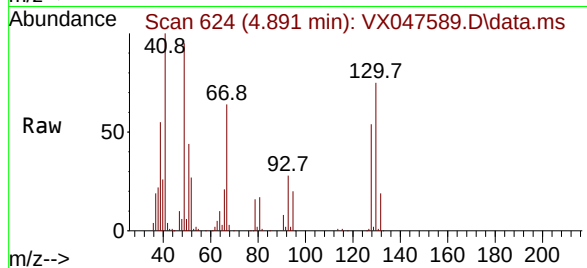
77 23.5 18.8 28.2





#41
Methacrylonitrile
Concen: 104.220 ug/l
RT: 4.891 min Scan# 61
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

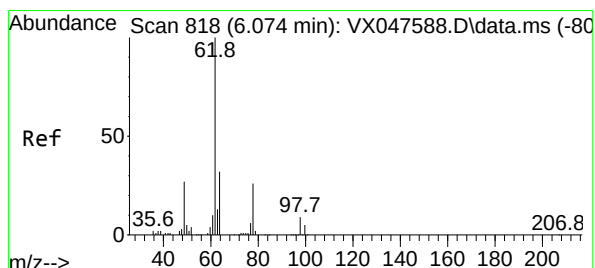
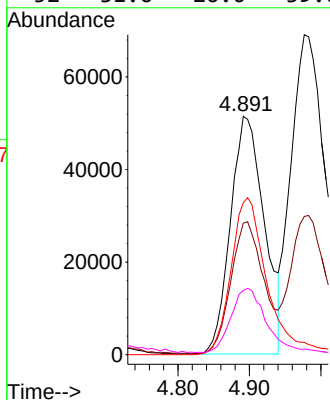
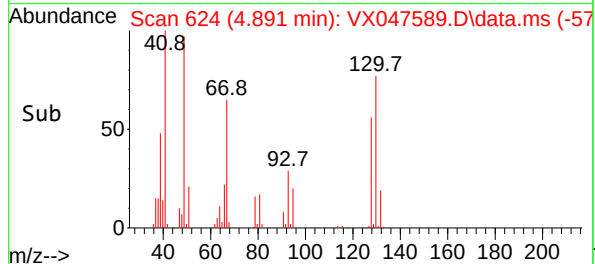
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



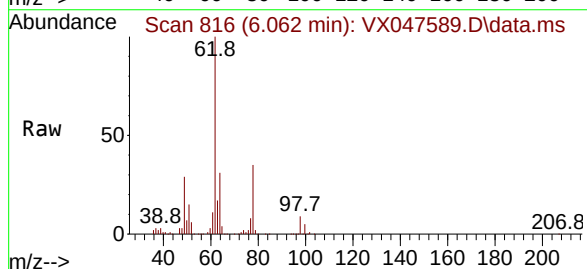
Tgt Ion: 41 Resp: 16875
Ion Ratio Lower Upper
41 100
39 54.6 43.3 64.9
67 72.1 58.6 87.8
52 31.6 26.0 39.0

Manual Integrations
APPROVED

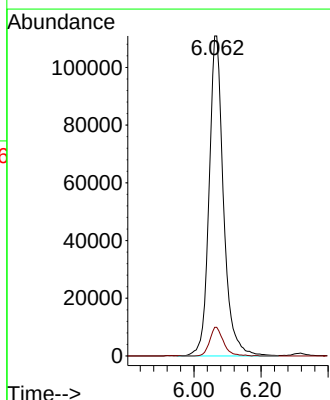
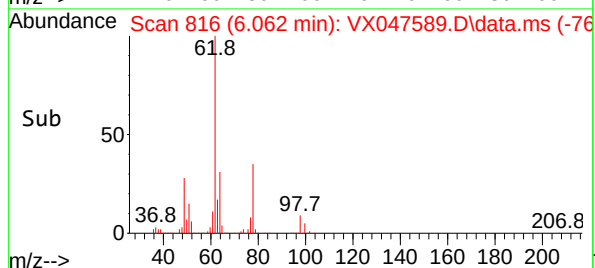
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

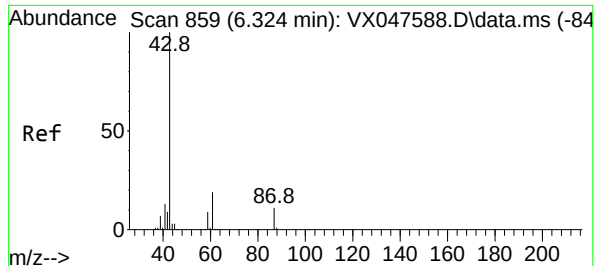


#42
1,2-Dichloroethane
Concen: 97.916 ug/l
RT: 6.062 min Scan# 816
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40



Tgt Ion: 62 Resp: 331465
Ion Ratio Lower Upper
62 100
98 8.6 0.0 17.0





#43

Isopropyl Acetate

Concen: 100.482 ug/l

RT: 6.318 min Scan# 81

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

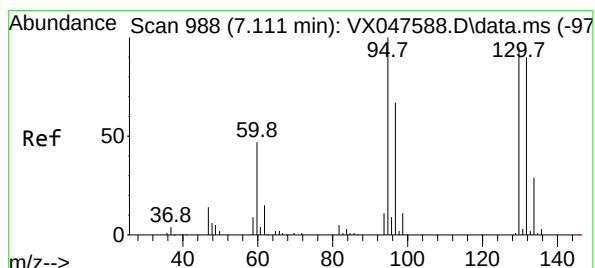
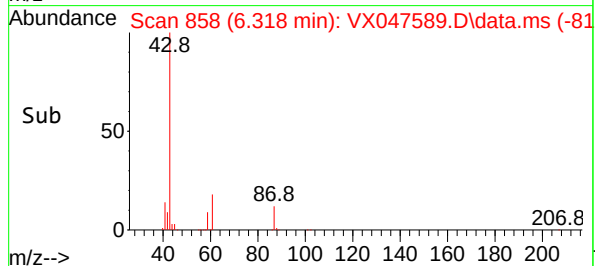
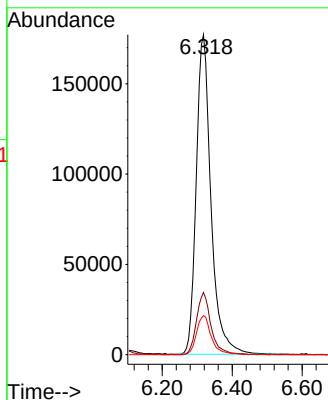
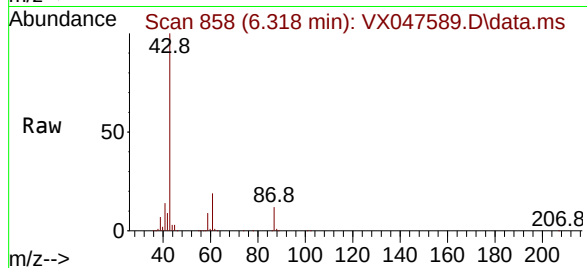
VSTDICC100

Tgt Ion:	43	Resp:	51687
Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.2	22.8
87	12.3	9.6	14.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#44

Trichloroethene

Concen: 101.234 ug/l

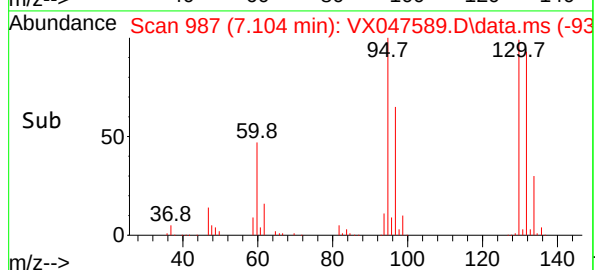
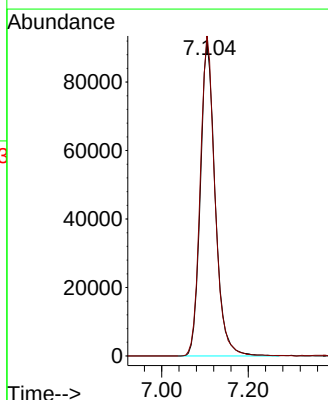
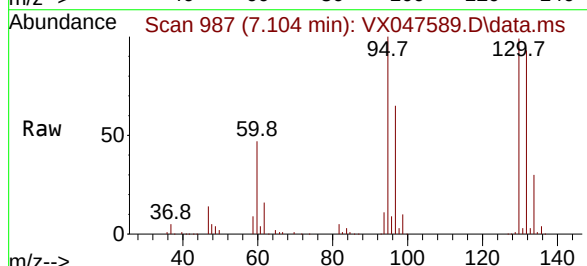
RT: 7.104 min Scan# 987

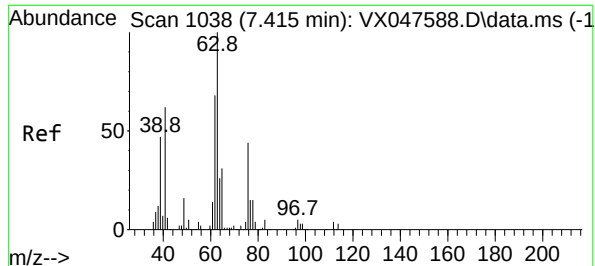
Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Tgt Ion:	130	Resp:	217753
Ion	Ratio	Lower	Upper
130	100		
95	101.4	0.0	210.8





#45

1,2-Dichloropropane

Concen: 100.145 ug/l

RT: 7.409 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 228150

Ion Ratio Lower Upper

63 100

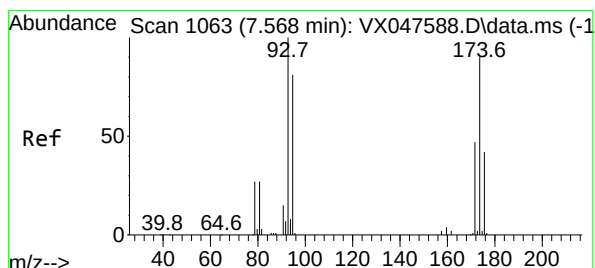
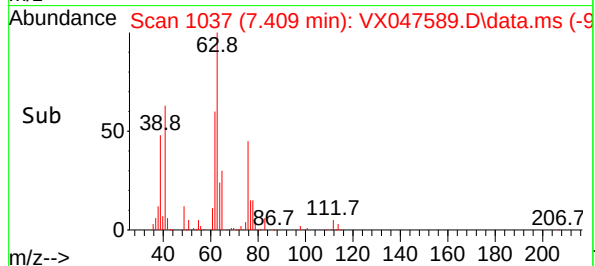
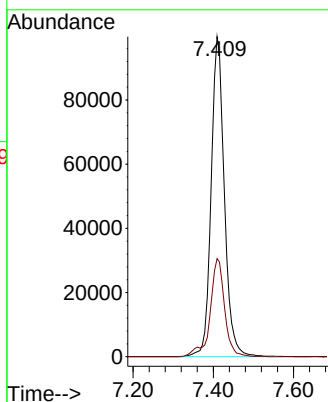
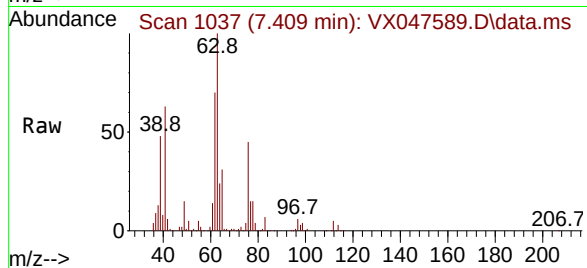
65 30.7 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#46

Dibromomethane

Concen: 99.519 ug/l

RT: 7.562 min Scan# 1062

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

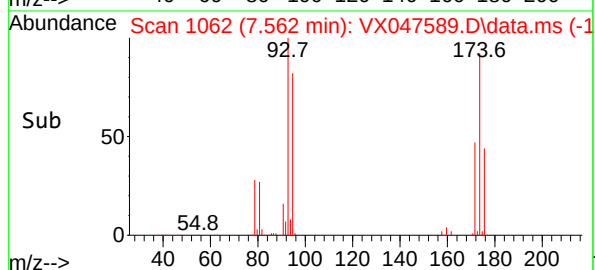
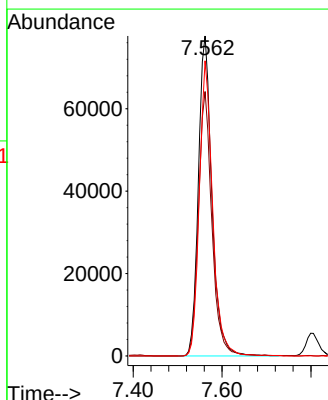
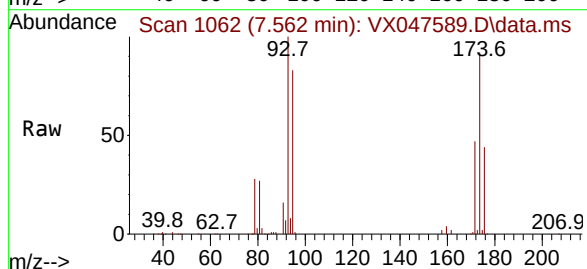
Tgt Ion: 93 Resp: 164987

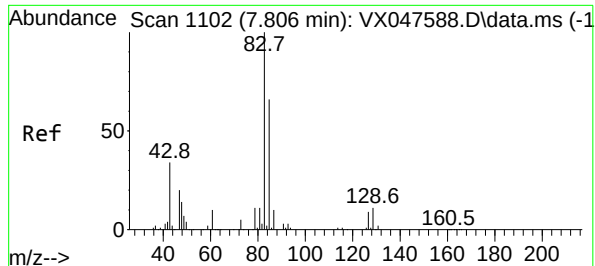
Ion Ratio Lower Upper

93 100

95 82.1 65.0 97.6

174 90.5 71.6 107.4





#47

Bromodichloromethane

Concen: 101.136 ug/l

RT: 7.806 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

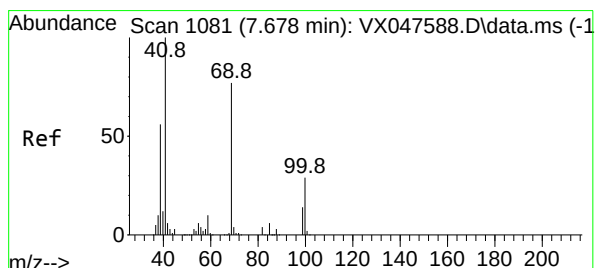
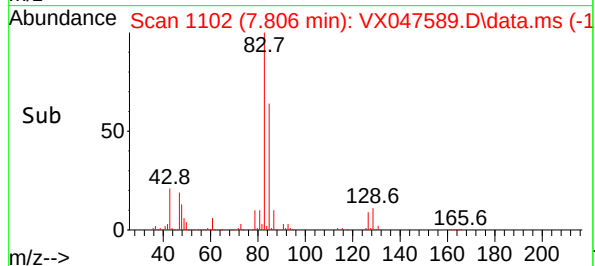
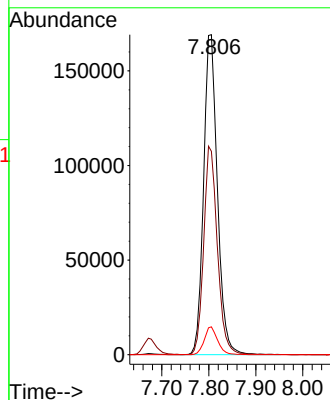
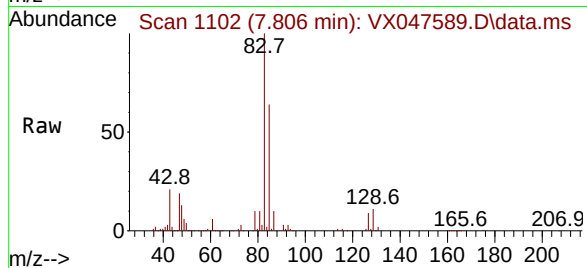
VSTDICC100

Tgt Ion:	83	Resp:	34599
Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.5	78.7
127	8.7	6.9	10.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#48

Methyl methacrylate

Concen: 101.612 ug/l

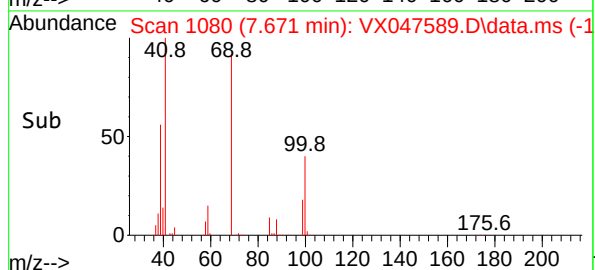
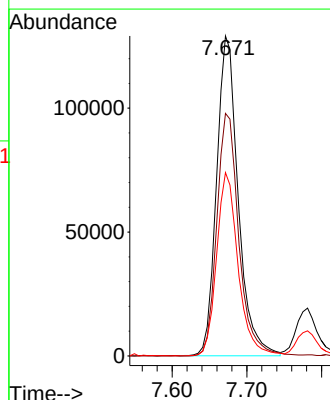
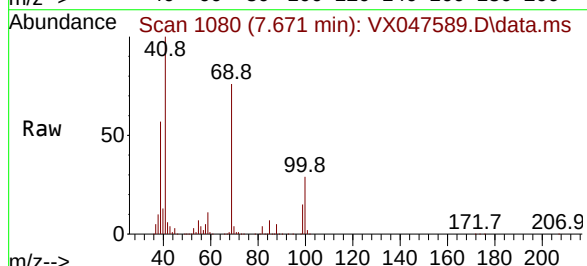
RT: 7.671 min Scan# 1080

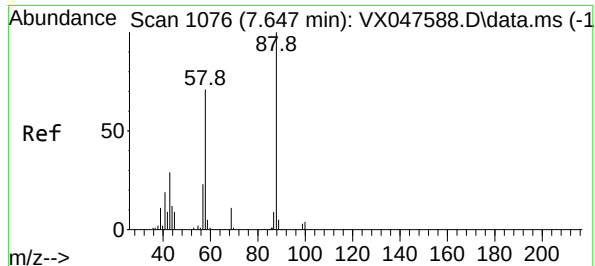
Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Tgt Ion:	41	Resp:	260358
Ion	Ratio	Lower	Upper
41	100		
69	77.1	61.4	92.2
39	57.0	45.8	68.6





#49

1,4-Dioxane

Concen: 2190.315 ug/l

RT: 7.641 min Scan# 1076

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

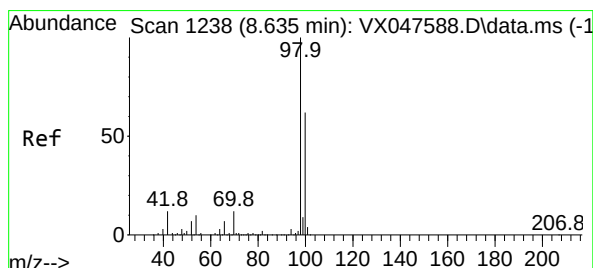
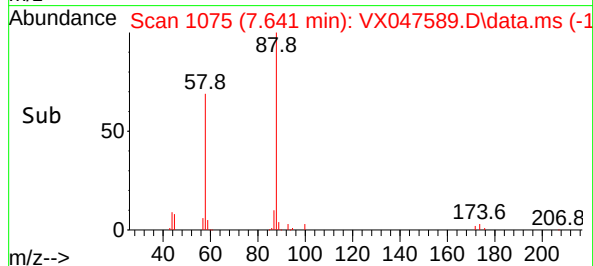
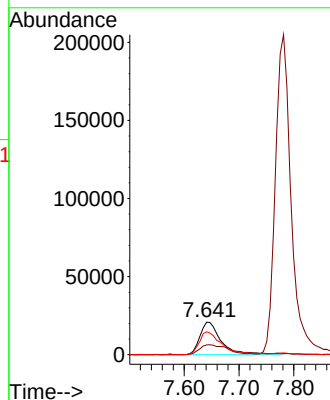
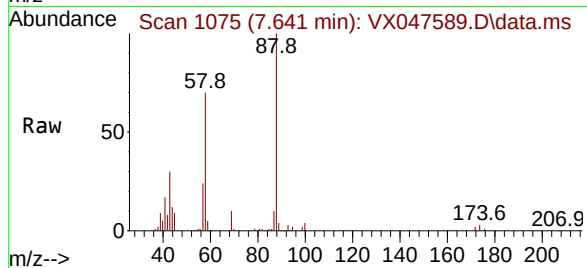
VSTDICC100

Tgt Ion:	88	Resp:	5671
Ion	Ratio	Lower	Upper
88	100		
43	39.4	30.2	45.2
58	74.0	59.5	89.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#50

Toluene-d8

Concen: 104.386 ug/l

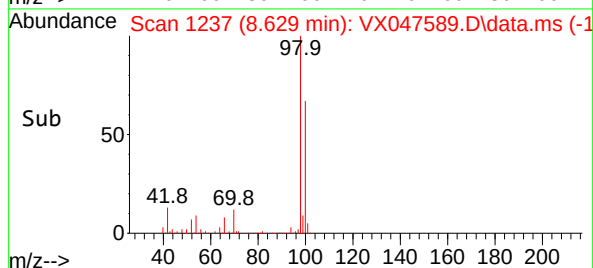
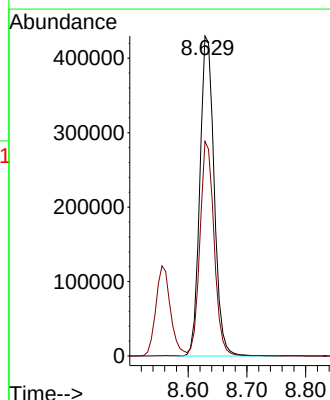
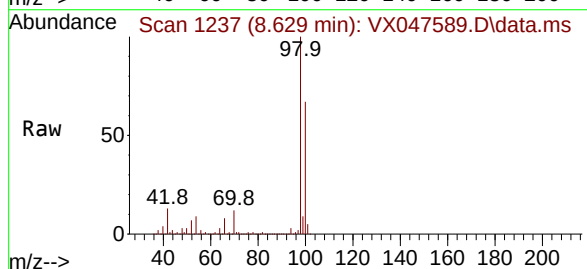
RT: 8.629 min Scan# 1237

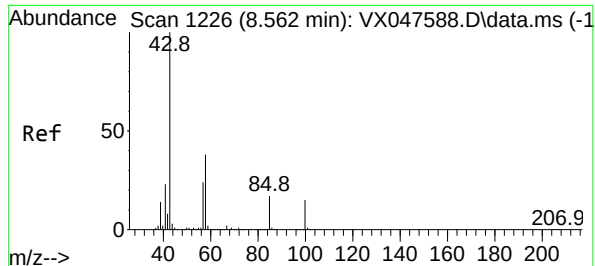
Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

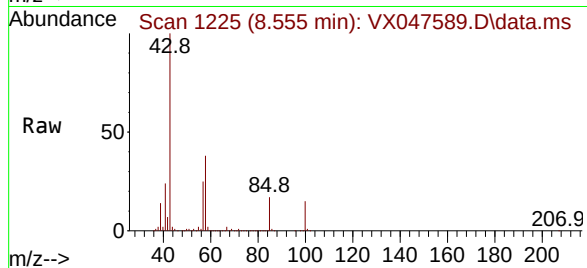
Tgt Ion:	98	Resp:	724078
Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 501.834 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

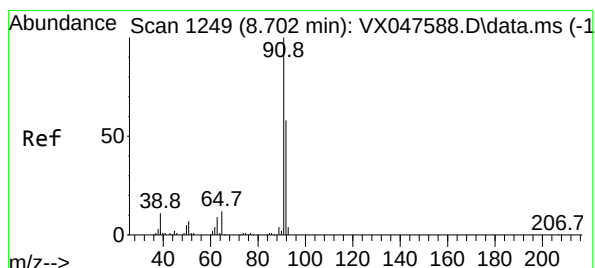
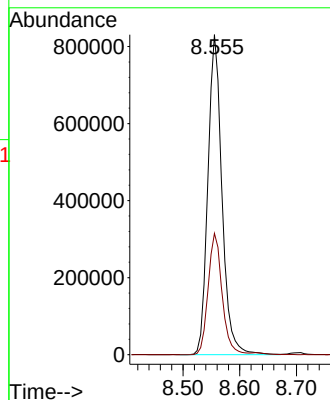
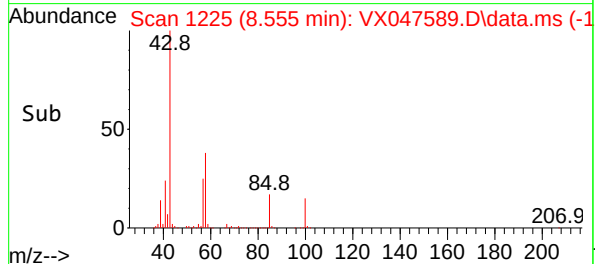
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 143125
Ion Ratio Lower Upper
43 100
58 37.7 30.3 45.5

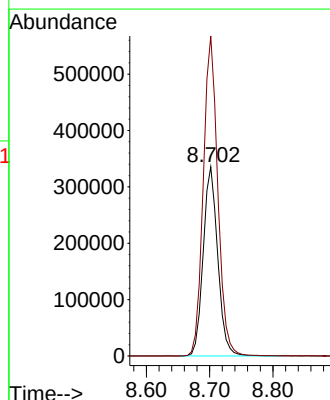
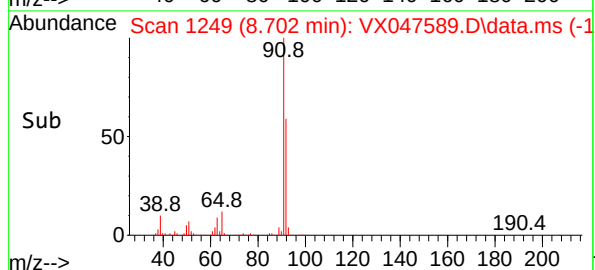
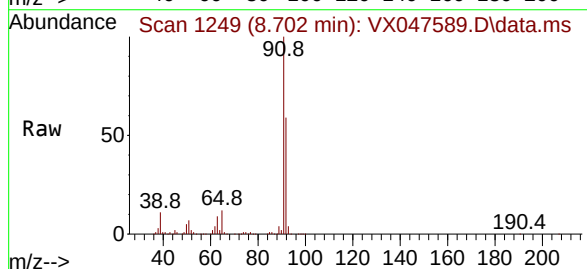
Manual Integrations
APPROVED

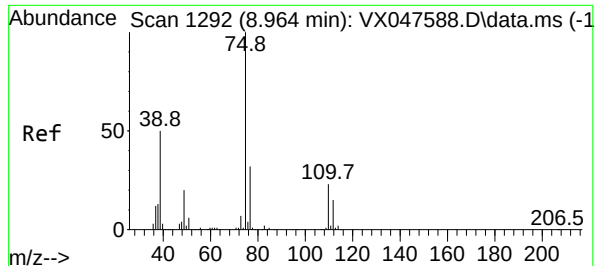
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#52
Toluene
Concen: 97.811 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 92 Resp: 536148
Ion Ratio Lower Upper
92 100
91 169.3 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 101.986 ug/l

RT: 8.958 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 75 Resp: 35588

Ion Ratio Lower Upper

75 100

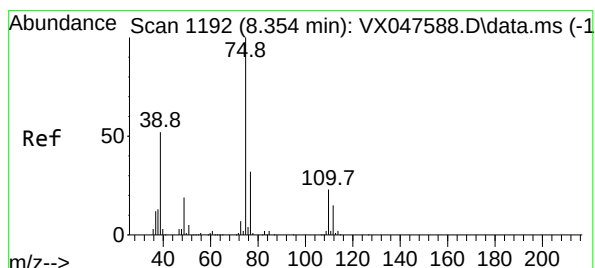
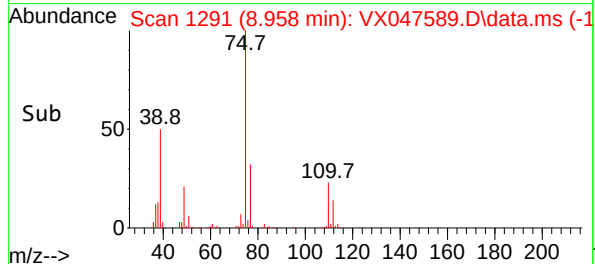
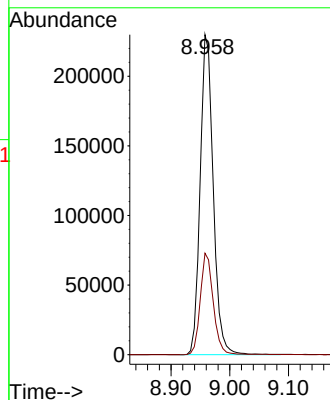
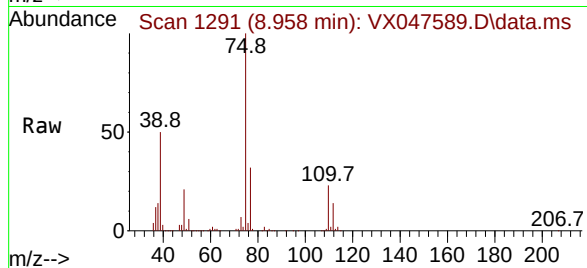
77 31.7 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#54

cis-1,3-Dichloropropene

Concen: 102.038 ug/l

RT: 8.348 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

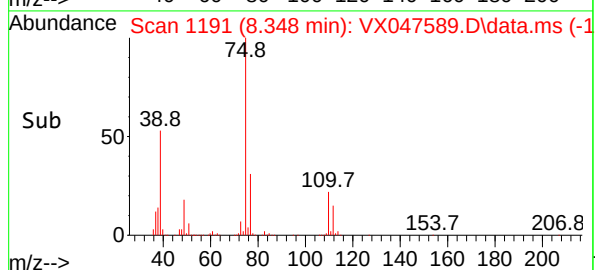
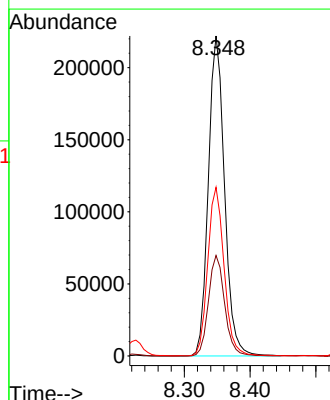
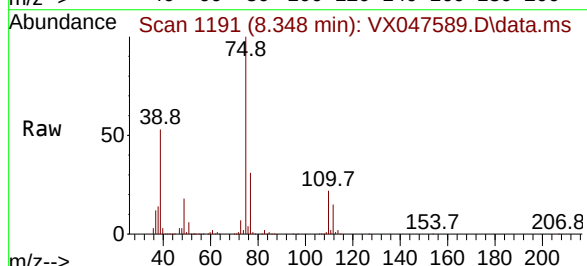
Tgt Ion: 75 Resp: 380577

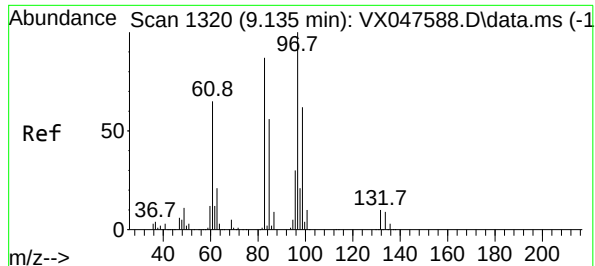
Ion Ratio Lower Upper

75 100

77 31.4 25.8 38.6

39 52.3 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 97.434 ug/l

RT: 9.135 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 97 Resp: 205939

Ion Ratio Lower Upper

97 100

83 83.2 69.6 104.4

85 54.3 45.0 67.6

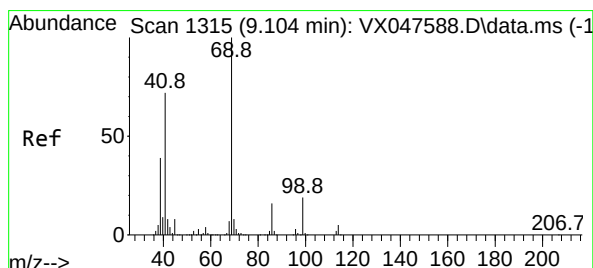
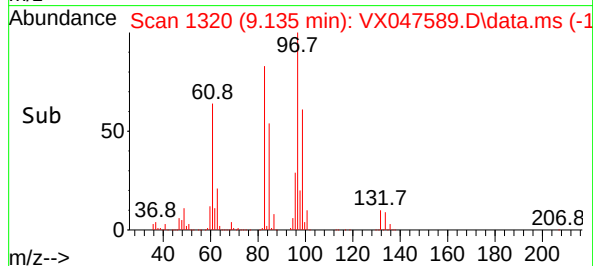
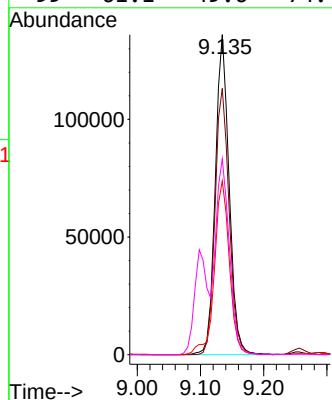
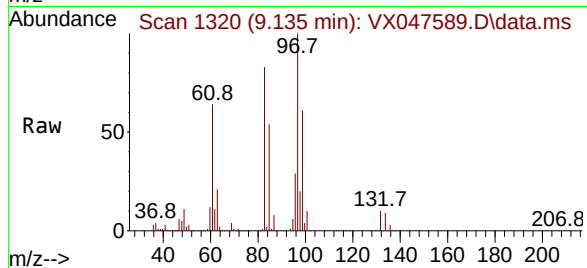
99 61.1 49.6 74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#56

Ethyl methacrylate

Concen: 104.435 ug/l

RT: 9.098 min Scan# 1314

Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

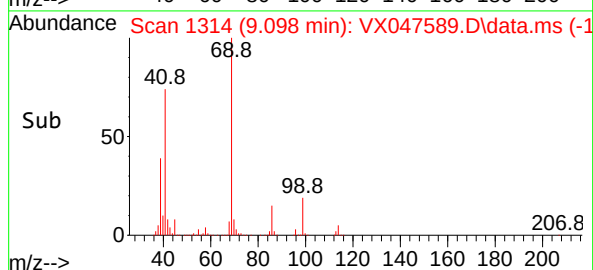
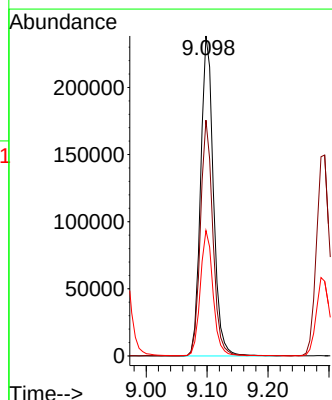
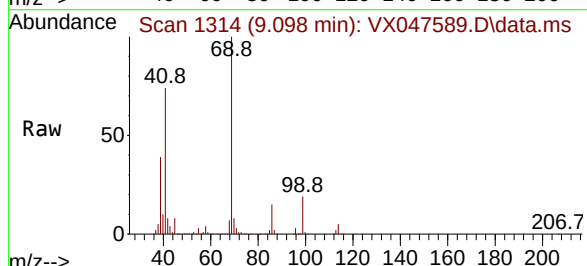
Tgt Ion: 69 Resp: 346659

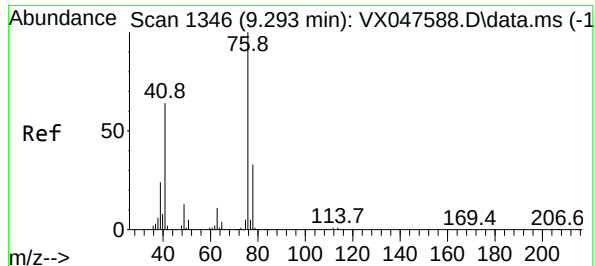
Ion Ratio Lower Upper

69 100

41 71.7 58.6 87.8

39 39.0 31.5 47.3





#57

1,3-Dichloropropane

Concen: 99.935 ug/l

RT: 9.293 min Scan# 11346

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 76 Resp: 362848

Ion Ratio Lower Upper

76 100

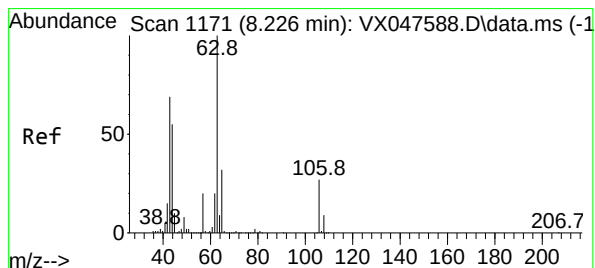
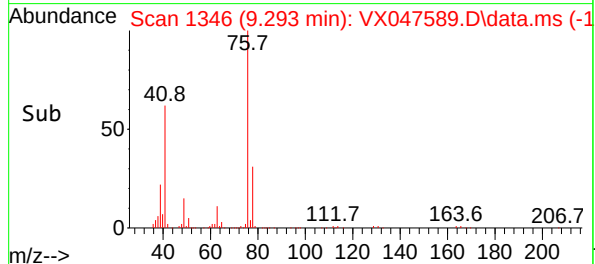
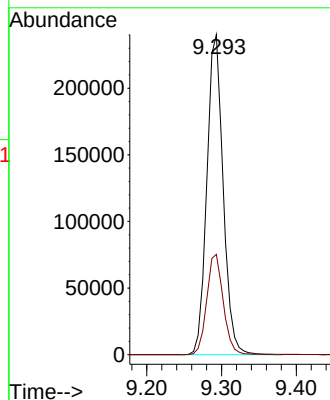
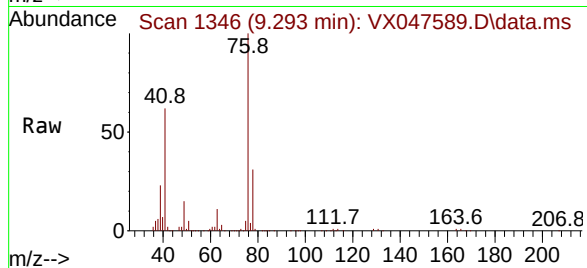
78 31.8 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#58

2-Chloroethyl Vinyl ether

Concen: 499.814 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX047589.D

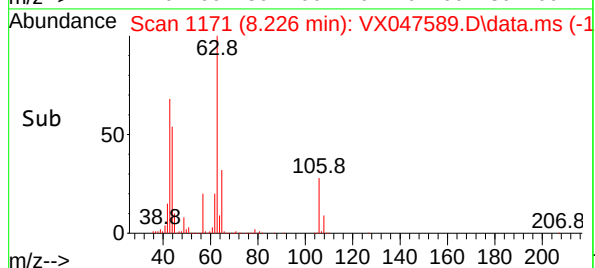
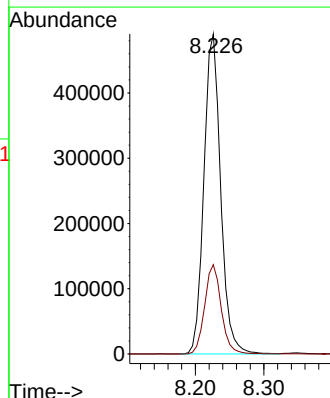
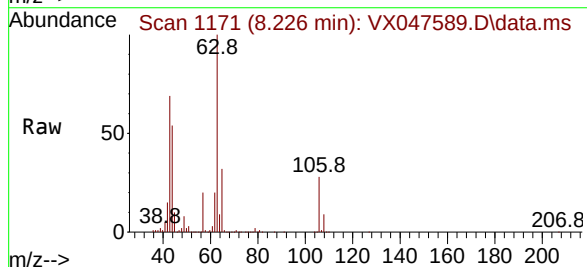
Acq: 16 Sep 2025 11:40

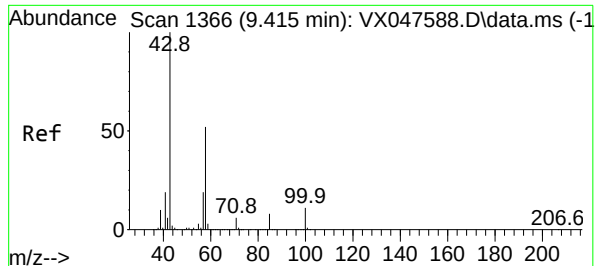
Tgt Ion: 63 Resp: 836362

Ion Ratio Lower Upper

63 100

106 27.5 21.9 32.9





#59

2-Hexanone

Concen: 486.380 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 996274

Ion Ratio Lower Upper

43 100

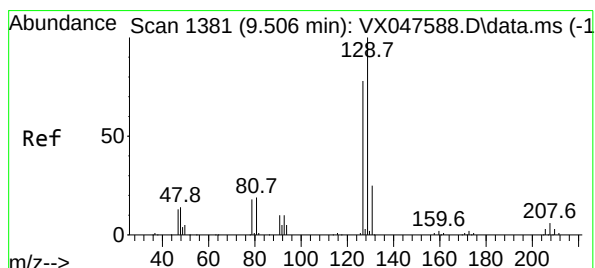
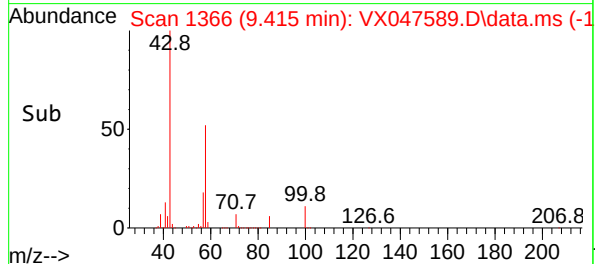
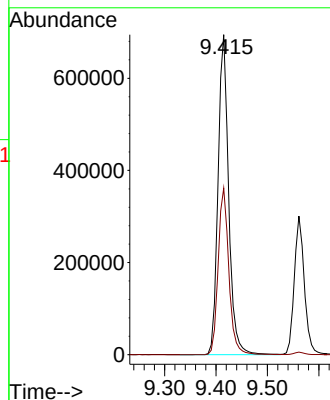
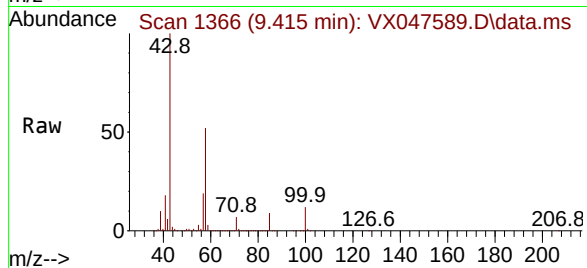
58 52.4 26.1 78.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#60

Dibromochloromethane

Concen: 103.226 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VX047589.D

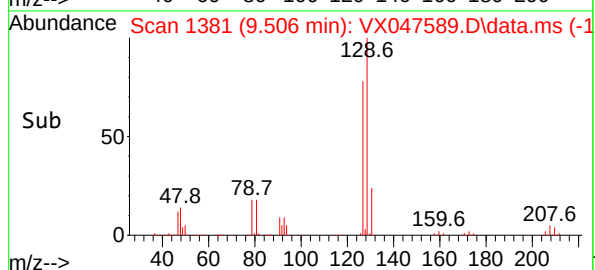
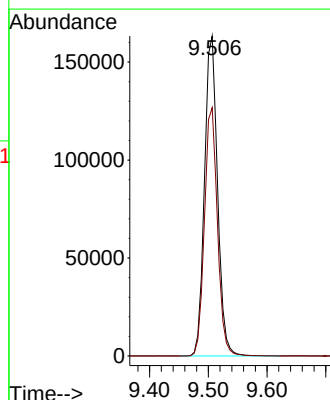
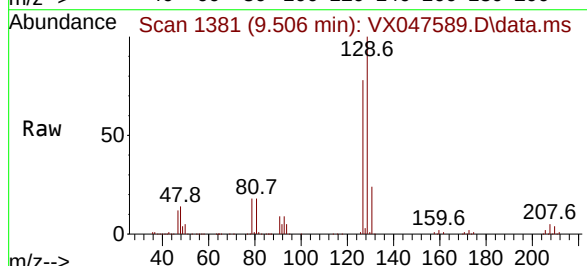
Acq: 16 Sep 2025 11:40

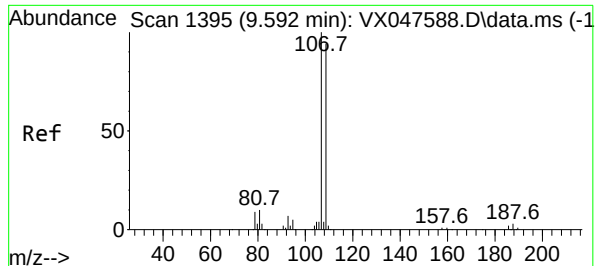
Tgt Ion:129 Resp: 251394

Ion Ratio Lower Upper

129 100

127 77.5 38.4 115.2





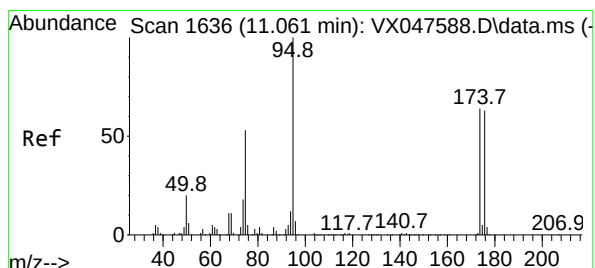
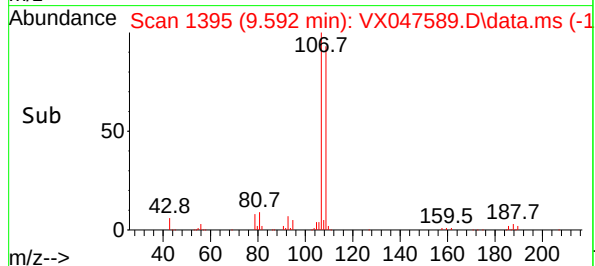
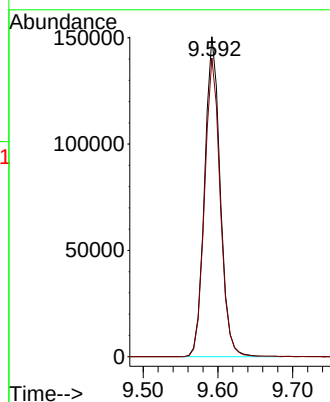
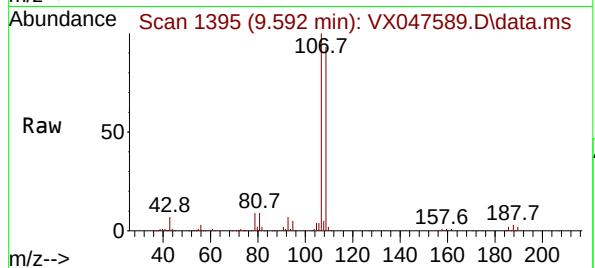
#61
1,2-Dibromoethane
Concen: 101.147 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tgt Ion: 107 Resp: 21775
Ion Ratio Lower Upper
107 100
109 93.8 75.3 112.9

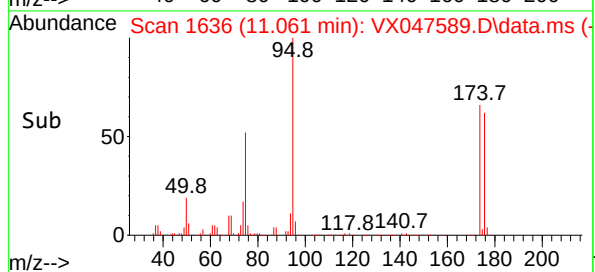
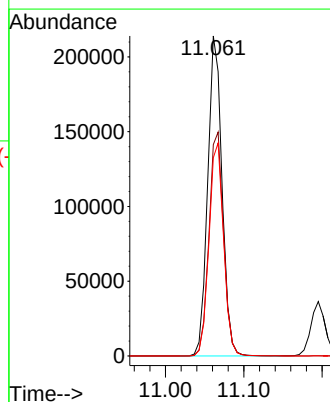
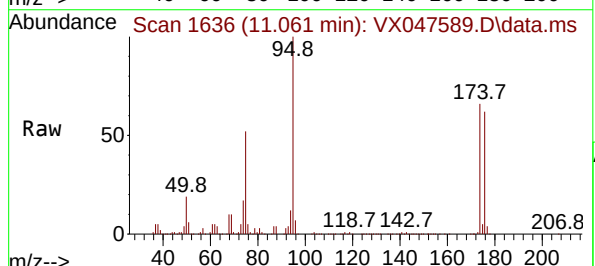
Manual Integrations
APPROVED

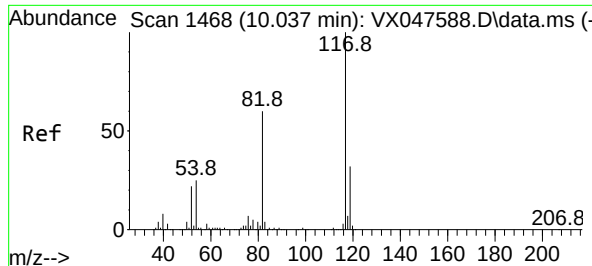
Reviewed By : John Carlone 09/17/2025
Supervised By : Mahesh Dadoda 09/18/2025



#62
4-Bromofluorobenzene
Concen: 102.672 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 95 Resp: 270289
Ion Ratio Lower Upper
95 100
174 71.7 0.0 141.6
176 68.0 0.0 138.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

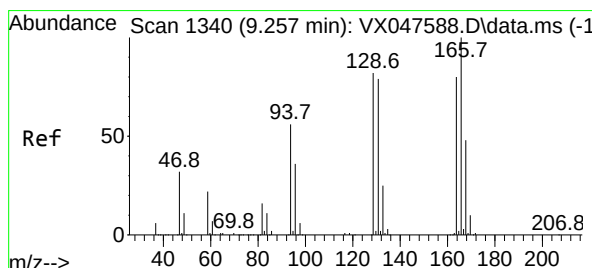
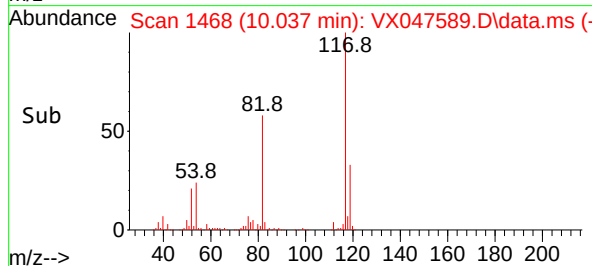
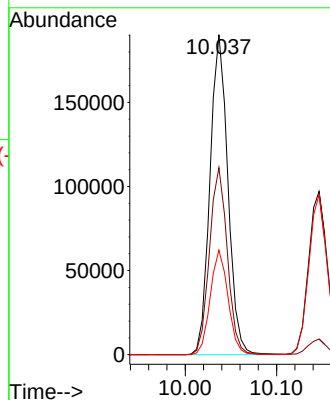
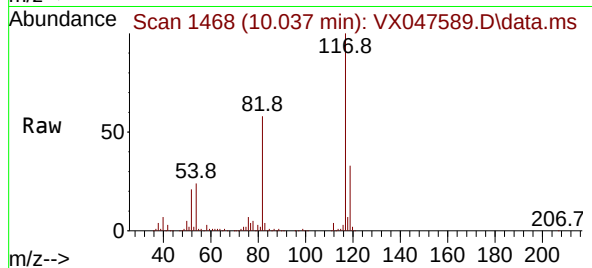
VSTDICC100

Tgt Ion:	117	Resp:	258399
Ion	Ratio	Lower	Upper
117	100		
82	58.4	47.8	71.6
119	32.7	25.2	37.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#64

Tetrachloroethene

Concen: 98.284 ug/l

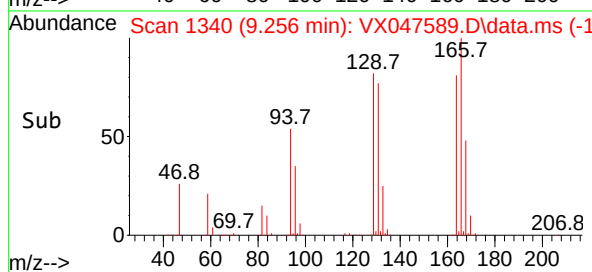
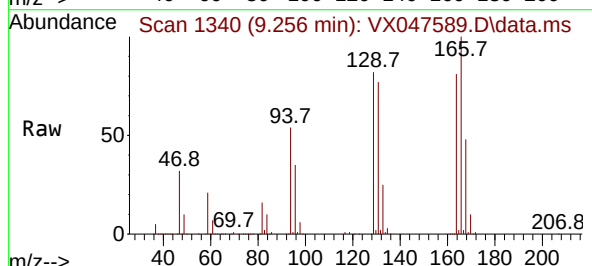
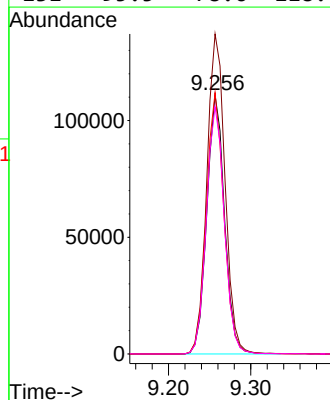
RT: 9.256 min Scan# 1340

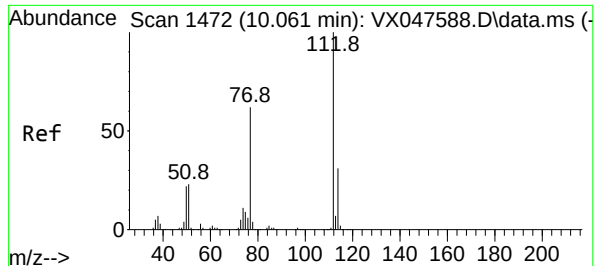
Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Tgt Ion:	164	Resp:	165559
Ion	Ratio	Lower	Upper
164	100		
166	123.6	100.2	150.2
129	100.9	81.8	122.6
131	95.5	78.6	118.0





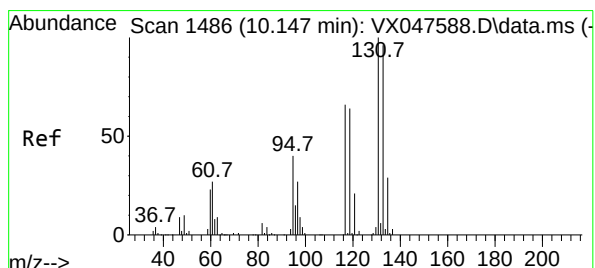
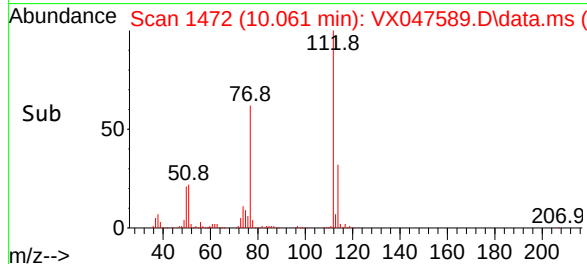
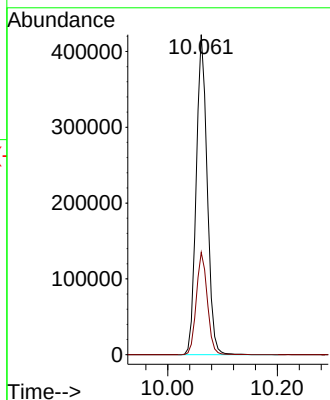
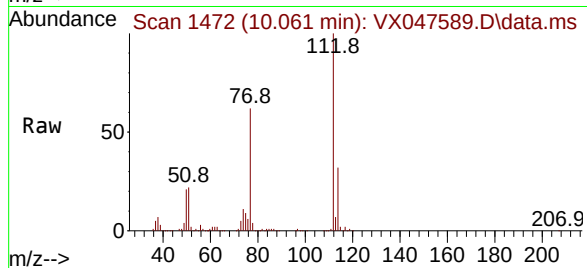
#65
Chlorobenzene
Concen: 100.253 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 58851
Ion Ratio Lower Upper
112 100
114 32.0 25.1 37.7

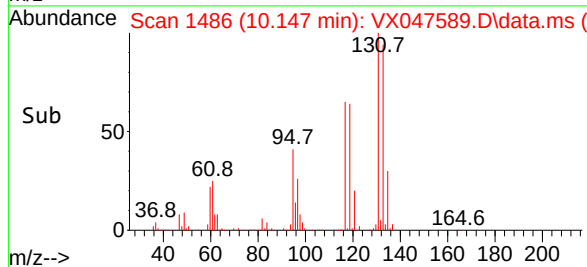
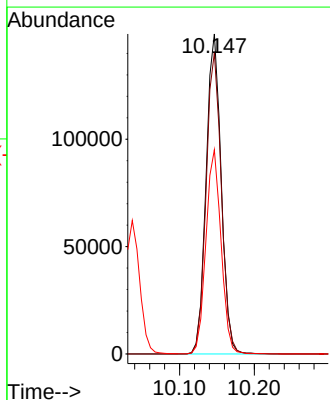
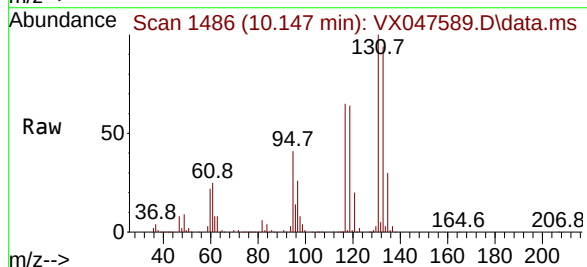
Manual Integrations
APPROVED

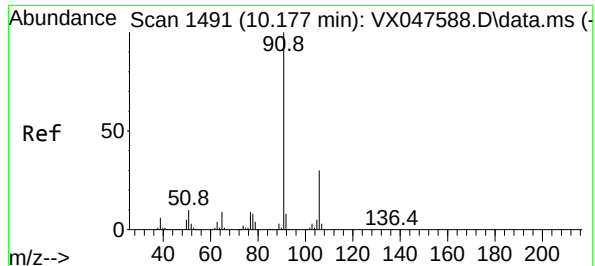
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 102.988 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion:131 Resp: 208621
Ion Ratio Lower Upper
131 100
133 95.2 47.3 142.0
119 64.2 32.0 96.0





#67

Ethyl Benzene

Concen: 101.823 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 1031340

Ion Ratio Lower Upper

91 100

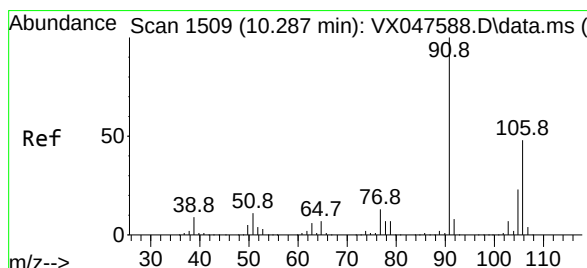
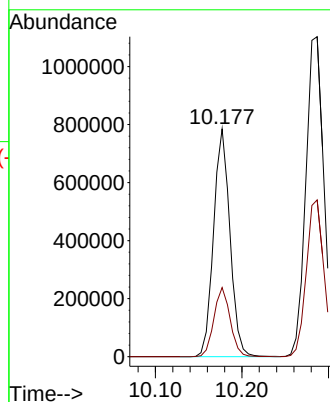
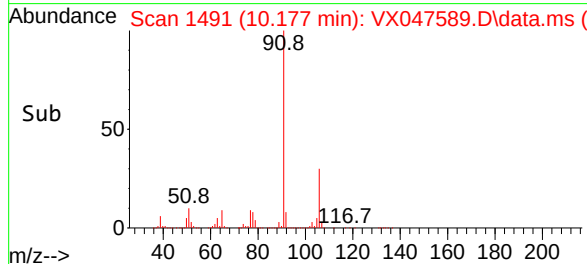
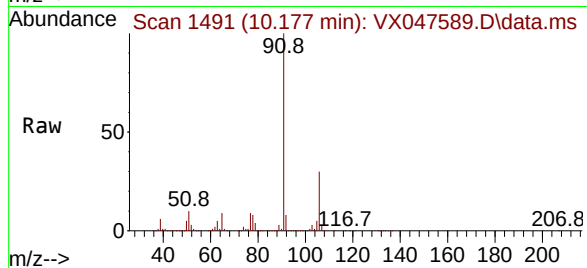
106 30.3 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#68

m/p-Xylenes

Concen: 202.624 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX047589.D

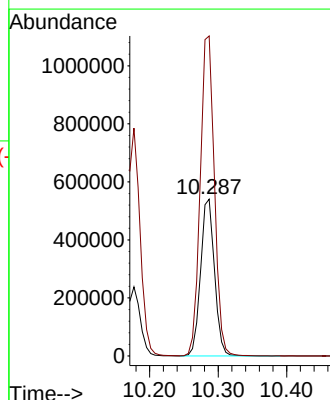
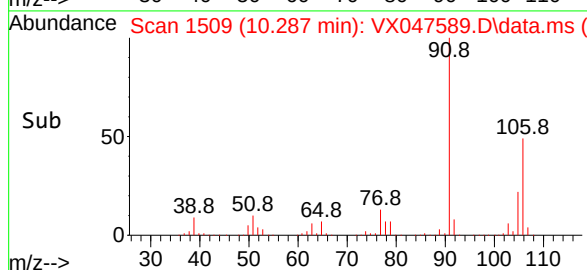
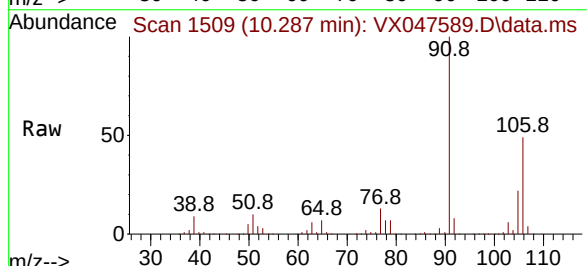
Acq: 16 Sep 2025 11:40

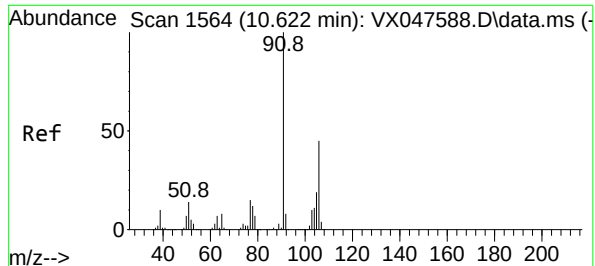
Tgt Ion:106 Resp: 763898

Ion Ratio Lower Upper

106 100

91 208.5 167.8 251.8





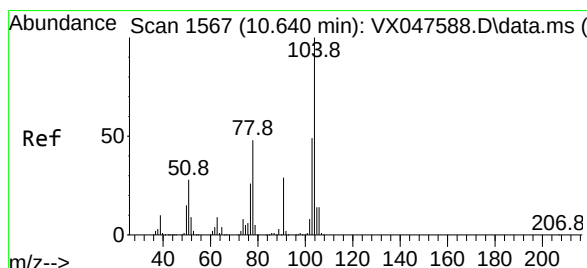
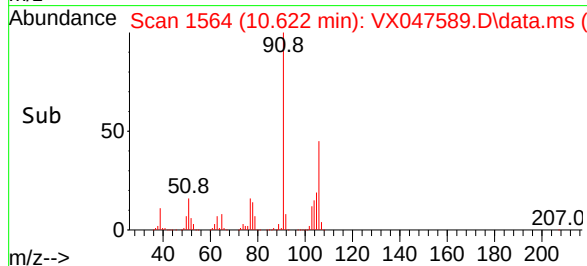
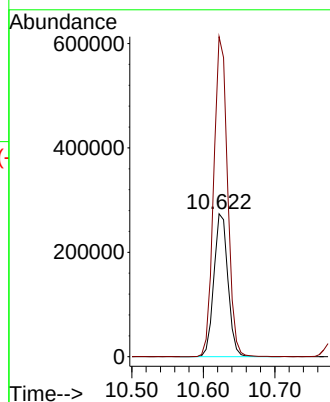
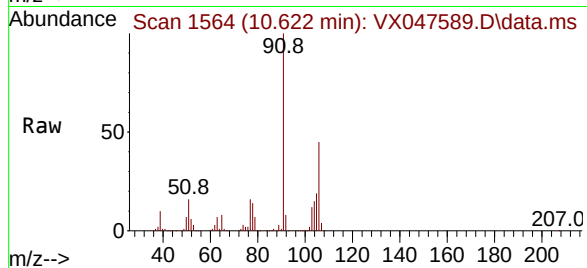
#69
o-Xylene
Concen: 102.186 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 37262
Ion Ratio Lower Upper
106 100
91 221.3 111.1 333.4

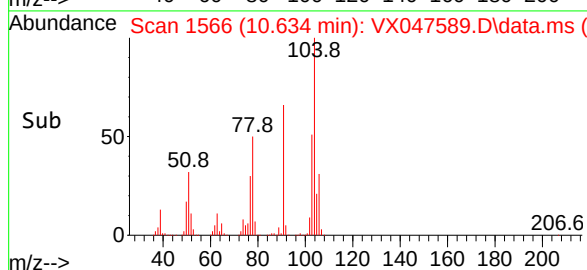
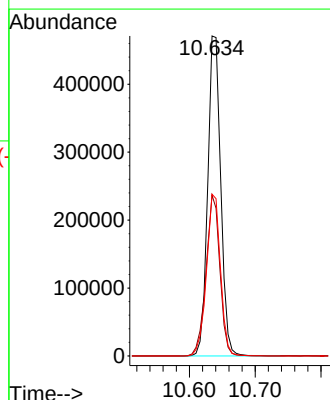
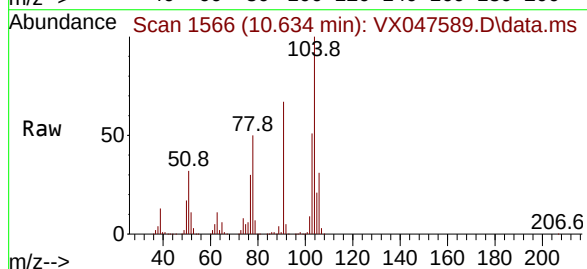
Manual Integrations
APPROVED

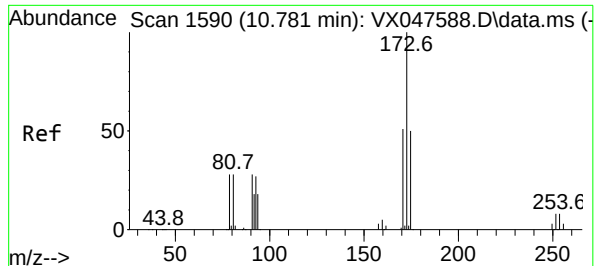
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#70
Styrene
Concen: 101.710 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

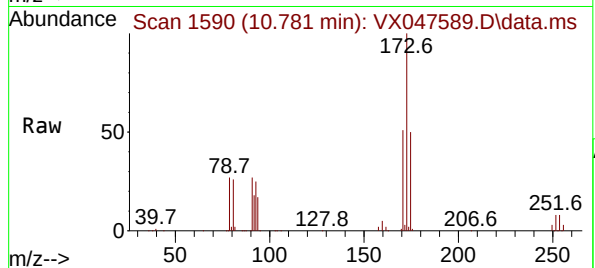
Tgt Ion:104 Resp: 649863
Ion Ratio Lower Upper
104 100
78 53.5 43.1 64.7
103 54.1 43.1 64.7





#71
Bromoform
Concen: 106.566 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

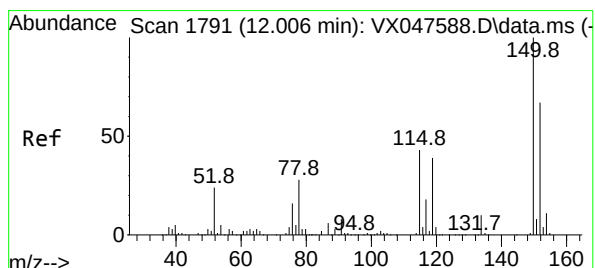
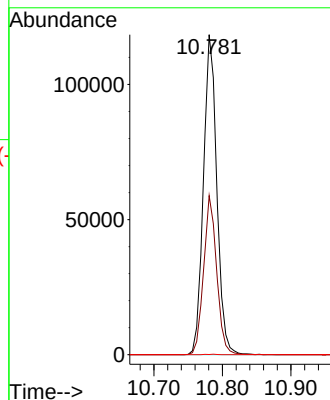
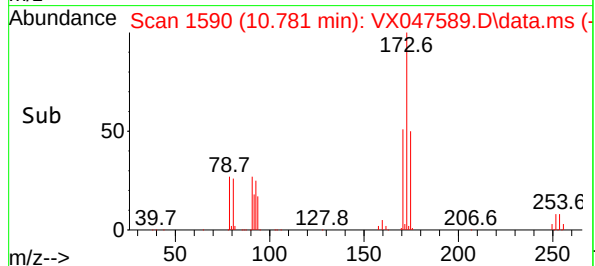
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



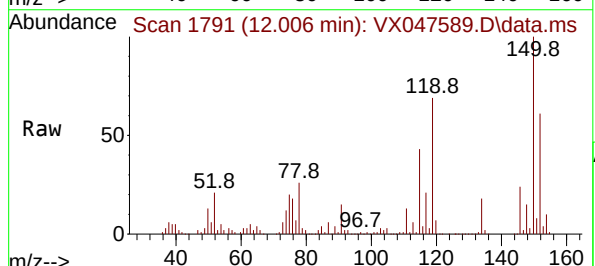
Tgt Ion:173 Resp: 16118
Ion Ratio Lower Upper
173 100
175 48.5 24.9 74.6
254 0.1 0.1 0.1

Manual Integrations
APPROVED

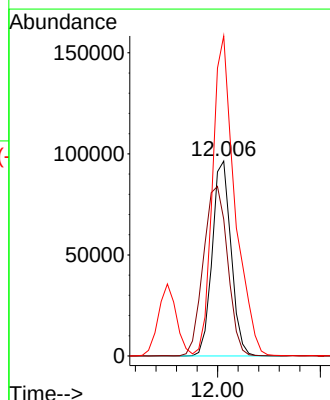
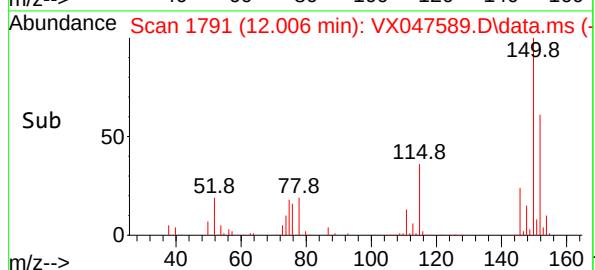
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

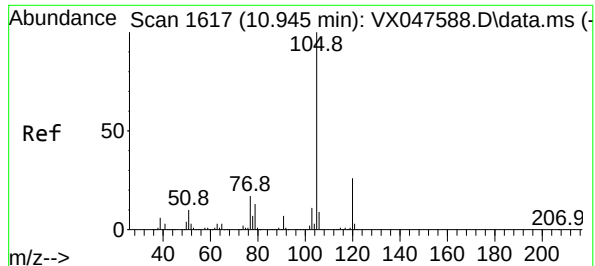


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40



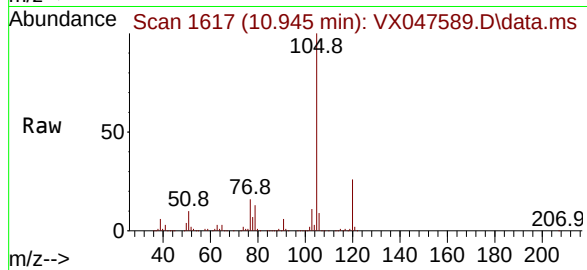
Tgt Ion:152 Resp: 122218
Ion Ratio Lower Upper
152 100
115 112.6 44.9 134.5
150 195.0 0.0 352.0





#73
Isopropylbenzene
Concen: 102.768 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

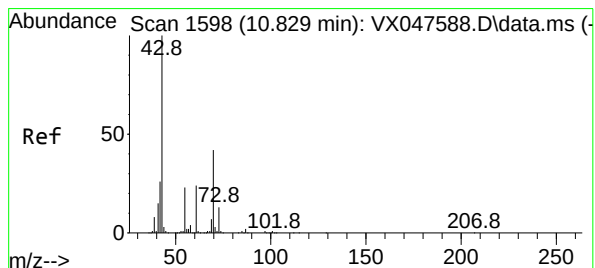
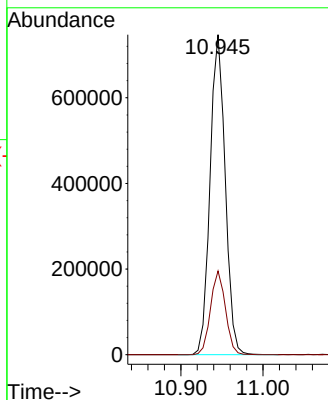
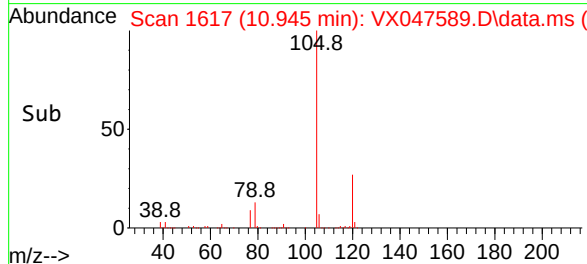
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:105 Resp: 954900
Ion Ratio Lower Upper
105 100
120 25.7 12.8 38.4

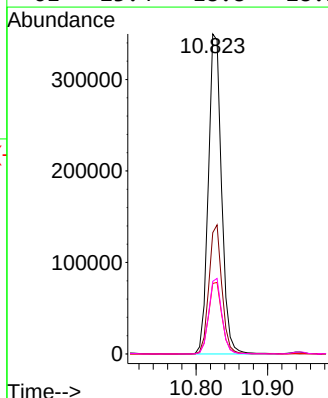
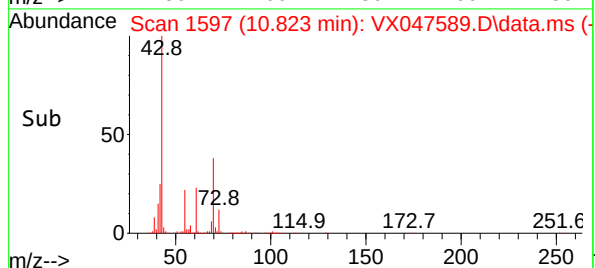
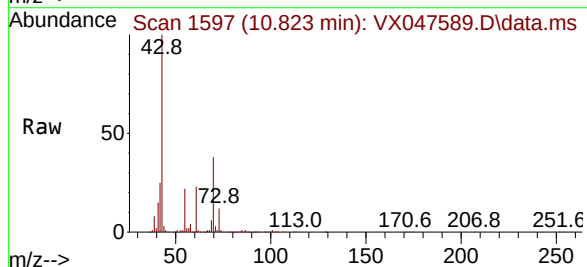
Manual Integrations
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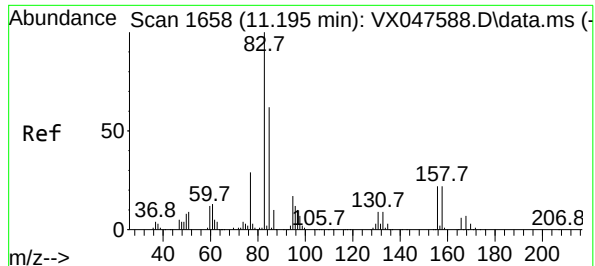
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#74
N-ethyl acetate
Concen: 105.812 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 43 Resp: 448344
Ion Ratio Lower Upper
43 100
70 39.6 32.0 48.0
55 22.8 18.9 28.3
61 23.4 18.8 28.2





#75

1,1,2,2-Tetrachloroethane

Concen: 100.172 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

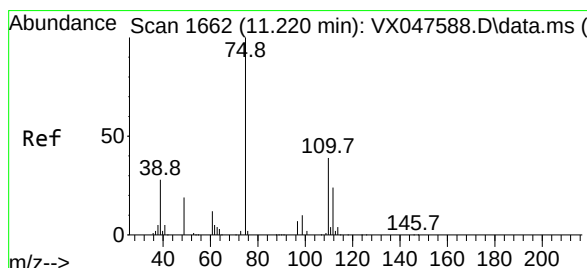
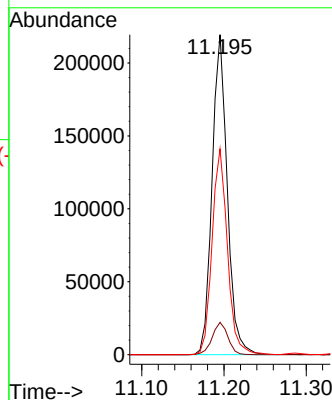
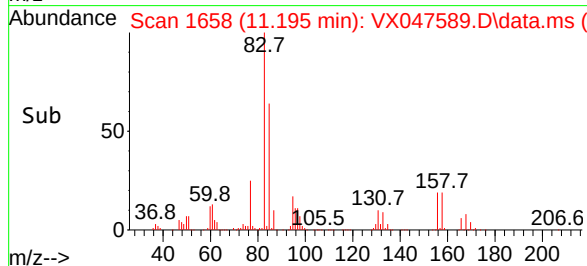
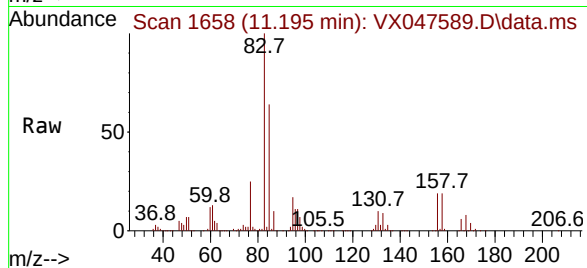
Tgt Ion:	83	Resp:	281608
Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.0	14.9
85	65.1	31.6	95.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#76

1,2,3-Trichloropropane

Concen: 90.444 ug/l m

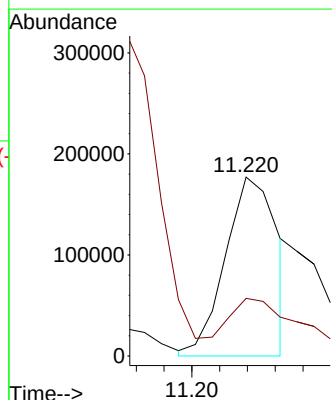
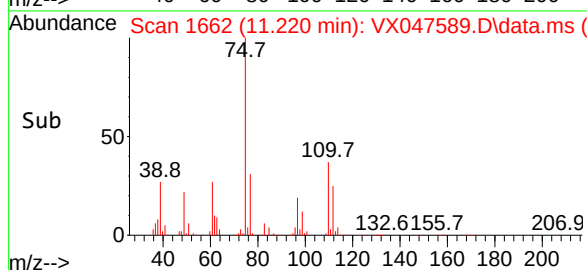
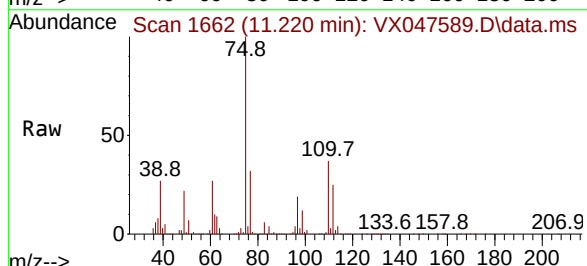
RT: 11.220 min Scan# 1662

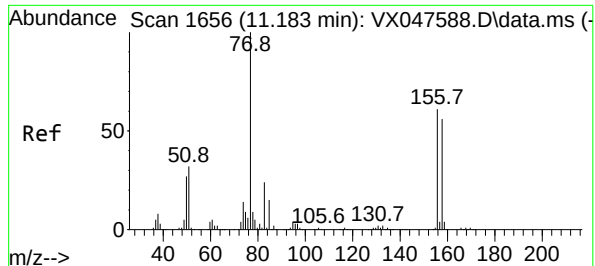
Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Tgt Ion:	75	Resp:	229521
Ion	Ratio	Lower	Upper
75	100		
77	43.9	18.8	56.4





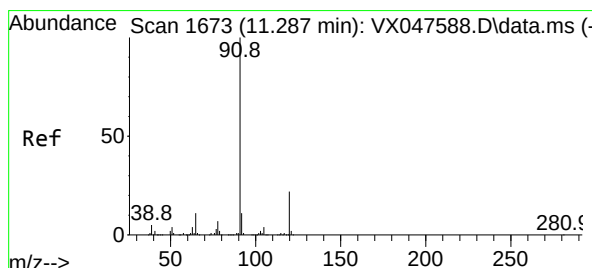
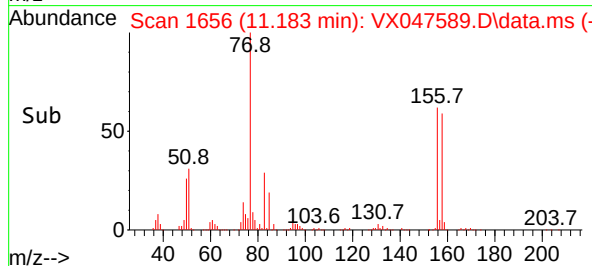
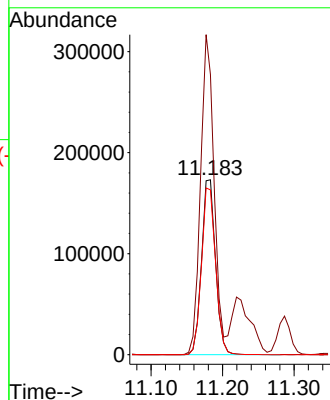
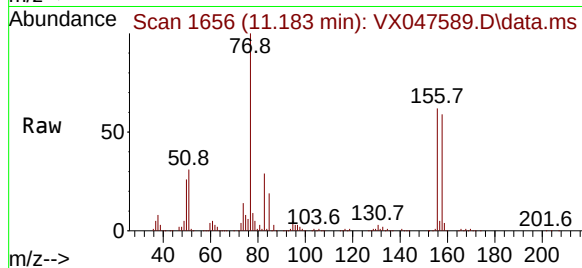
#77
Bromobenzene
Concen: 102.541 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 234660
Ion Ratio Lower Upper
156 100
77 176.0 89.7 269.1
158 96.5 47.9 143.6

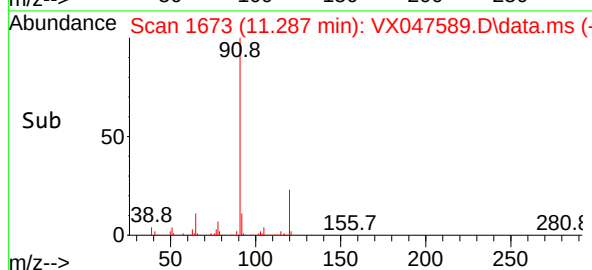
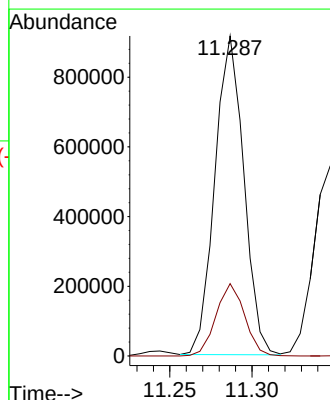
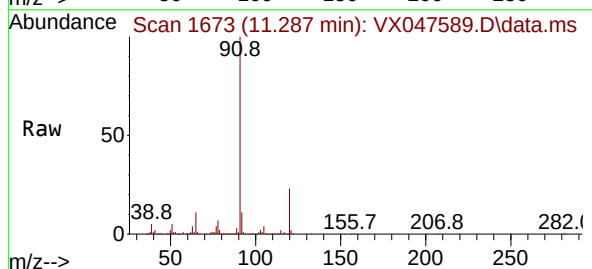
Manual Integrations
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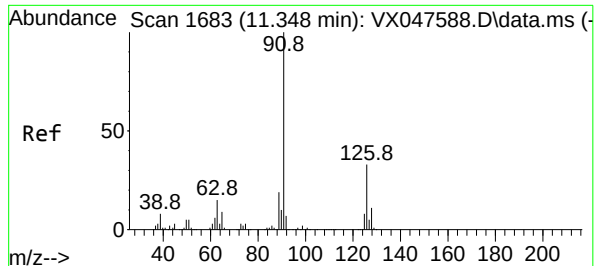
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#78
n-propylbenzene
Concen: 101.941 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 1119728
Ion Ratio Lower Upper
91 100
120 22.4 11.1 33.1





#79

2-Chlorotoluene

Concen: 101.652 ug/l

RT: 11.348 min Scan# 1683

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 68386

Ion Ratio Lower Upper

91 100

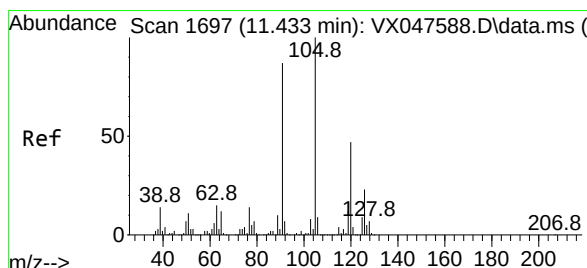
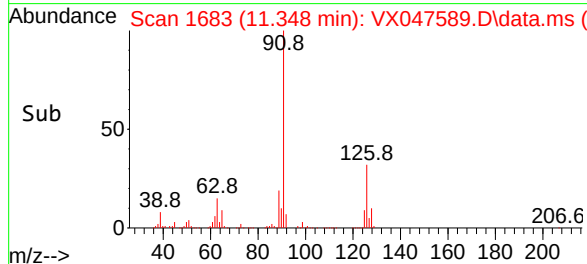
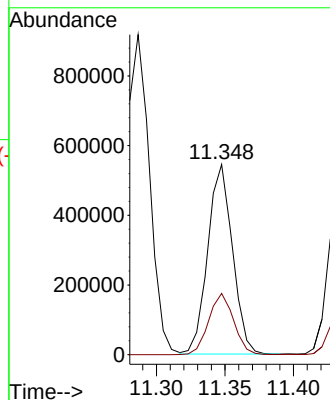
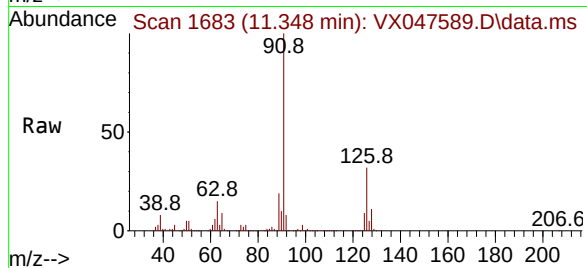
126 32.7 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#80

1,3,5-Trimethylbenzene

Concen: 103.134 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX047589.D

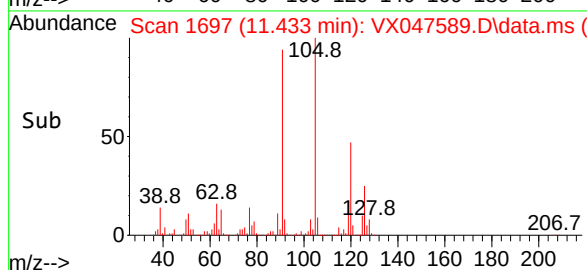
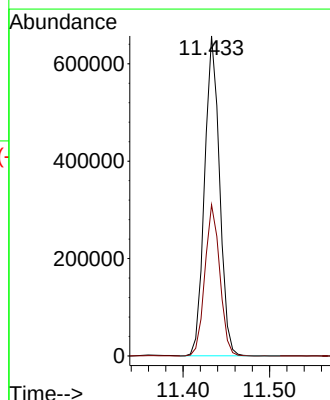
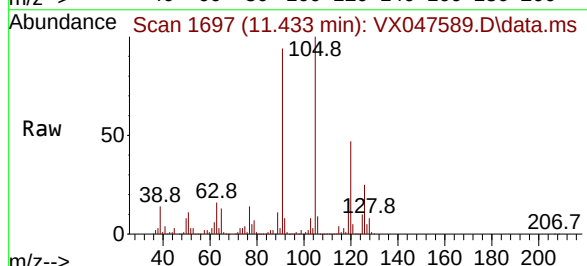
Acq: 16 Sep 2025 11:40

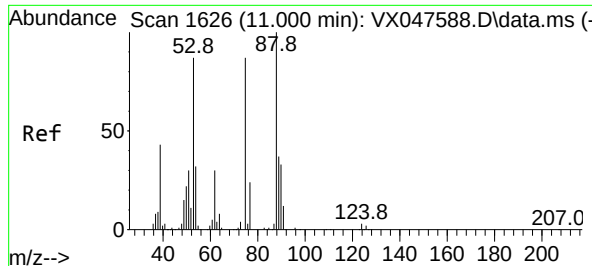
Tgt Ion:105 Resp: 787327

Ion Ratio Lower Upper

105 100

120 47.2 23.6 70.8





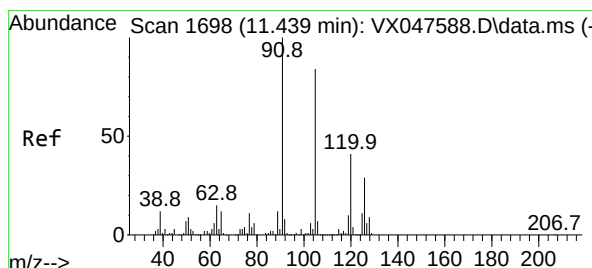
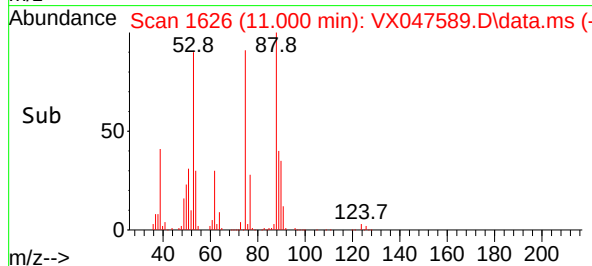
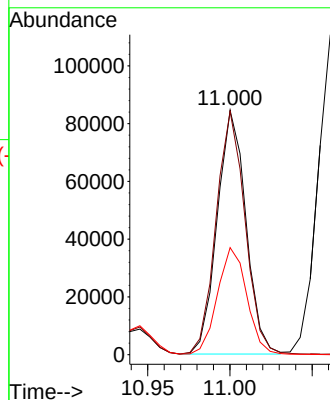
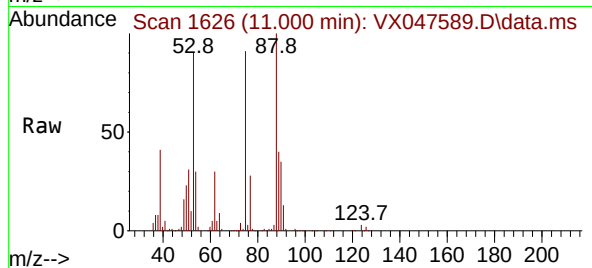
#81
trans-1,4-Dichloro-2-butene
Concen: 105.689 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 10255
Ion Ratio Lower Upper
75 100
53 101.1 83.4 125.2
89 45.3 36.3 54.5

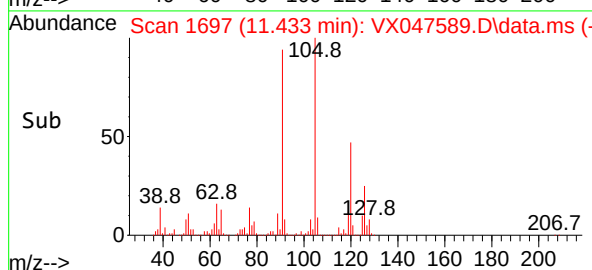
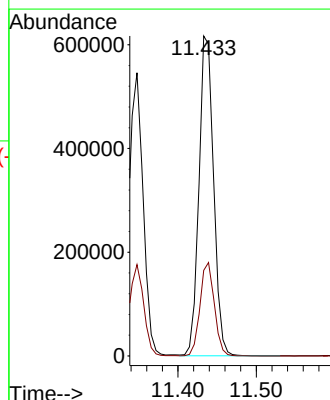
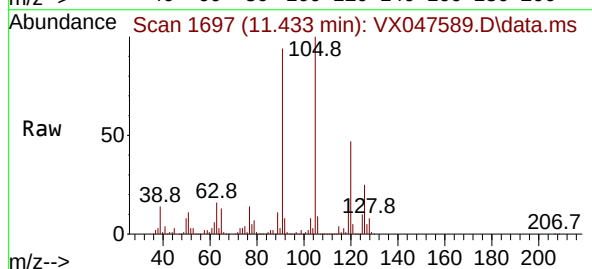
Manual Integrations
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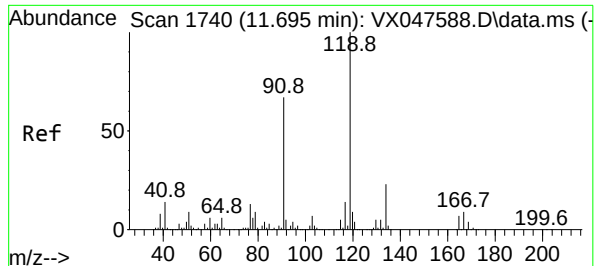
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#82
4-Chlorotoluene
Concen: 101.054 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 91 Resp: 802929
Ion Ratio Lower Upper
91 100
126 28.6 14.2 42.6





#83

tert-Butylbenzene

Concen: 101.333 ug/l

RT: 11.695 min Scan# 1740

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

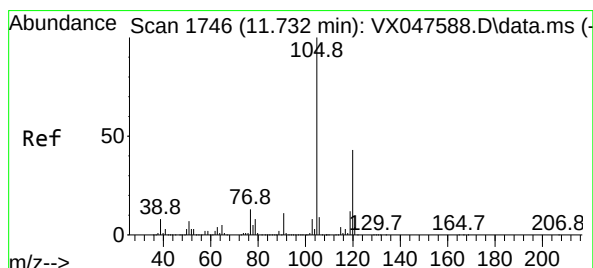
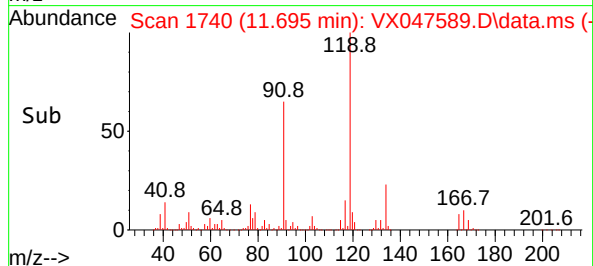
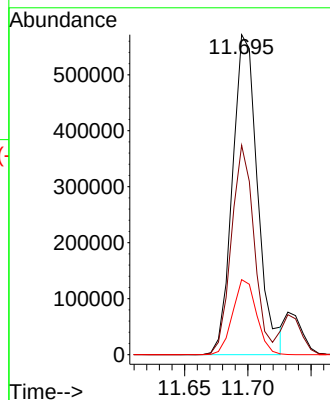
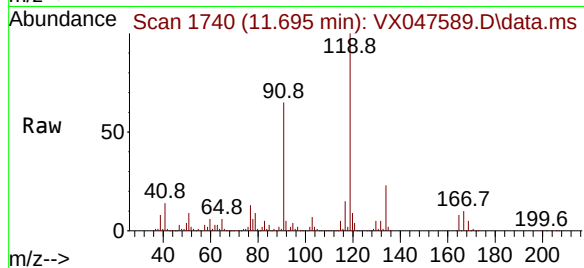
Tgt Ion:	119	Resp:	791890
Ion Ratio	Lower	Upper	
119	100		
91	59.3	29.6	88.8
134	22.3	11.0	33.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#84

1,2,4-Trimethylbenzene

Concen: 102.144 ug/l

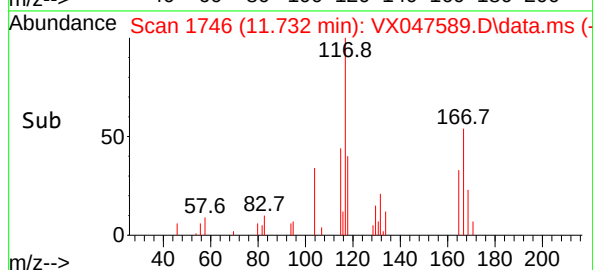
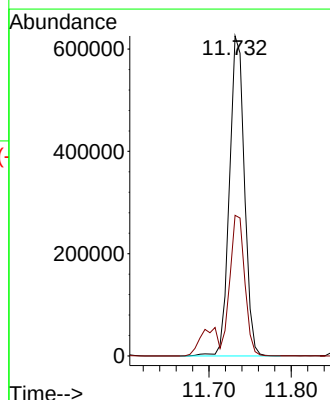
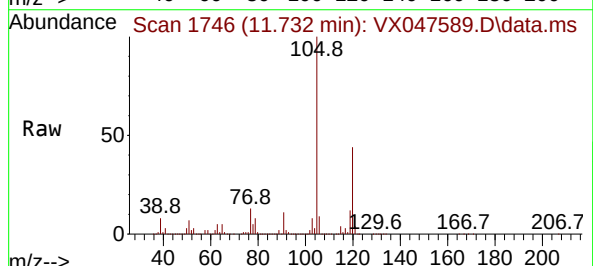
RT: 11.732 min Scan# 1746

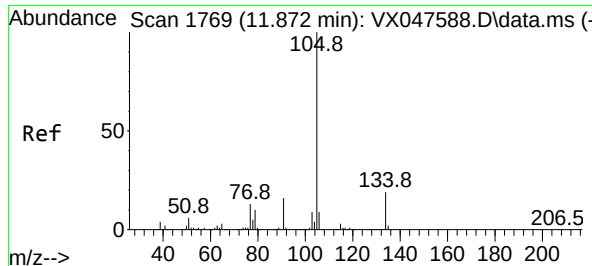
Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Tgt Ion:	105	Resp:	790557
Ion Ratio	Lower	Upper	
105	100		
120	43.6	22.1	66.1





#85

sec-Butylbenzene

Concen: 101.840 ug/l

RT: 11.872 min Scan# 1769

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:105 Resp: 94532

Ion Ratio Lower Upper

105 100

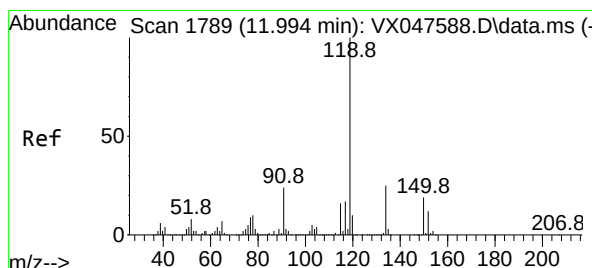
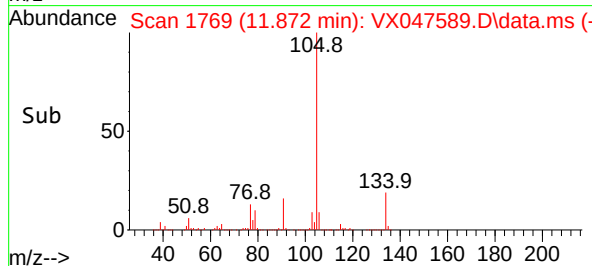
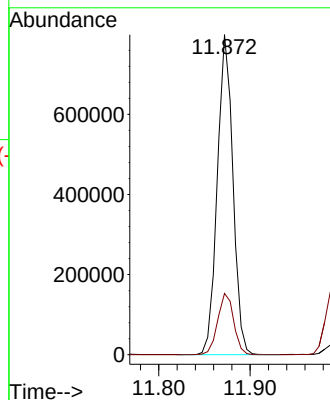
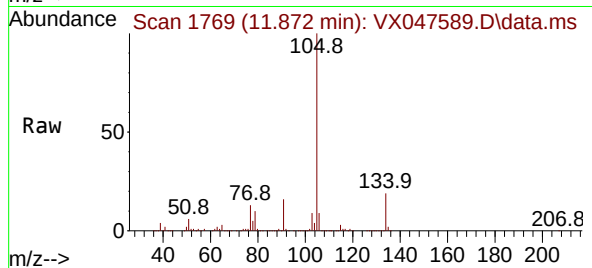
134 19.7 9.8 29.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#86

p-Isopropyltoluene

Concen: 101.501 ug/l

RT: 11.994 min Scan# 1789

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

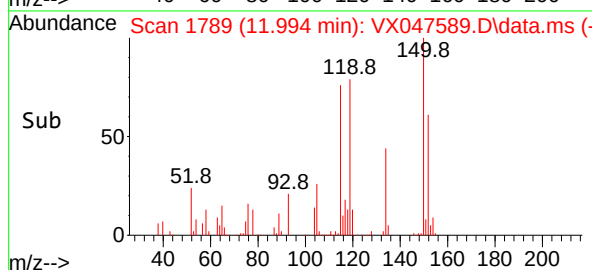
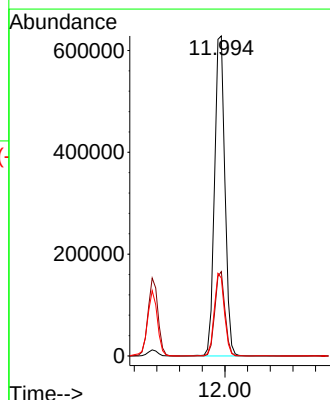
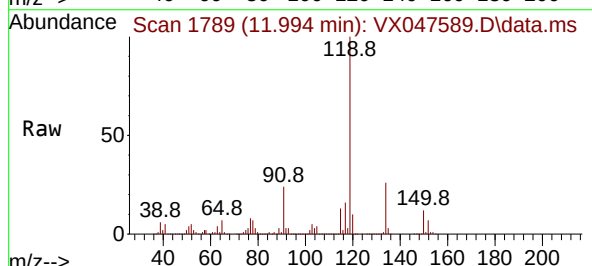
Tgt Ion:119 Resp: 797643

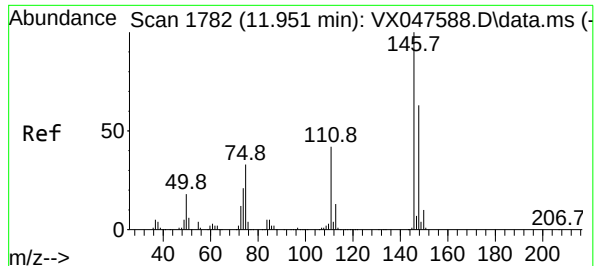
Ion Ratio Lower Upper

119 100

134 25.6 12.6 37.8

91 25.2 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 101.689 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 432248

Ion Ratio Lower Upper

146 100

111 42.7 21.5 64.5

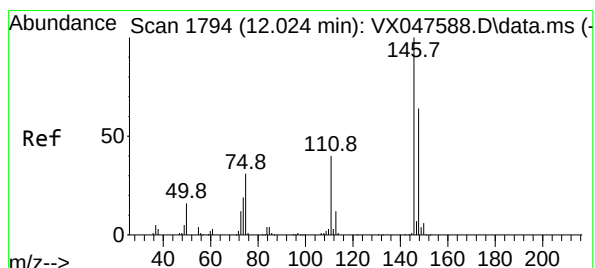
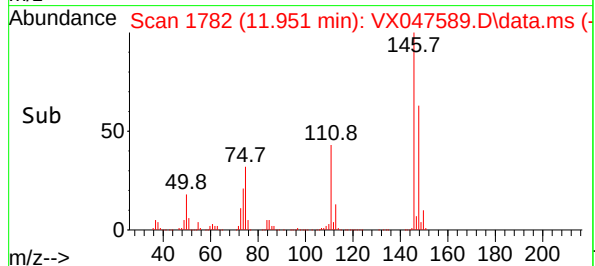
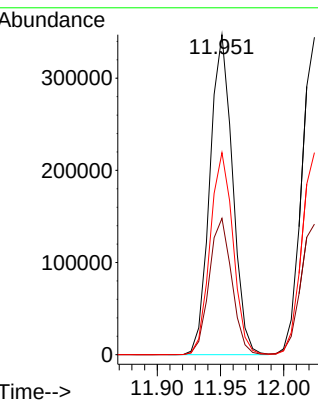
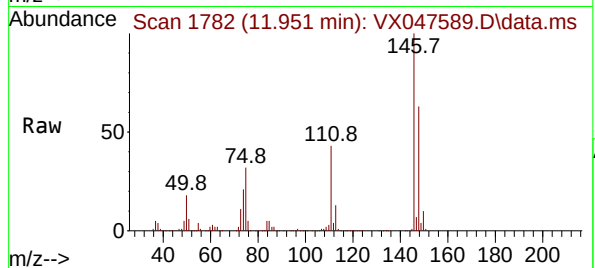
148 63.9 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#88

1,4-Dichlorobenzene

Concen: 98.985 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

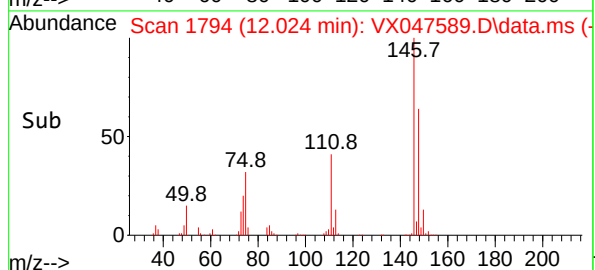
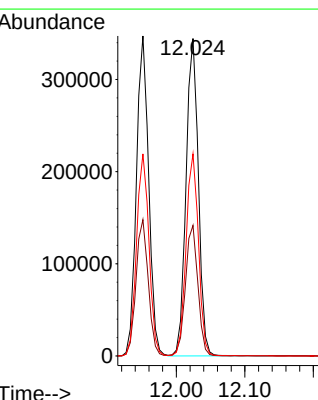
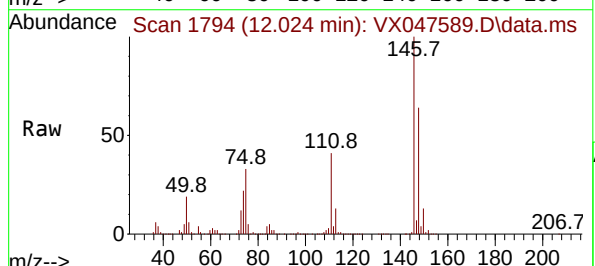
Tgt Ion:146 Resp: 431839

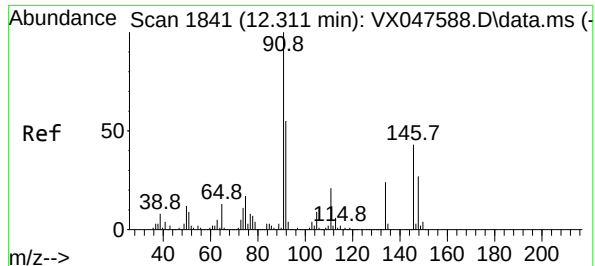
Ion Ratio Lower Upper

146 100

111 41.6 20.8 62.4

148 63.8 31.7 95.1





#89

n-Butylbenzene

Concen: 104.138 ug/l

RT: 12.311 min Scan# 1841

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 757239

Ion Ratio Lower Upper

91 100

92 54.4 27.6 82.7

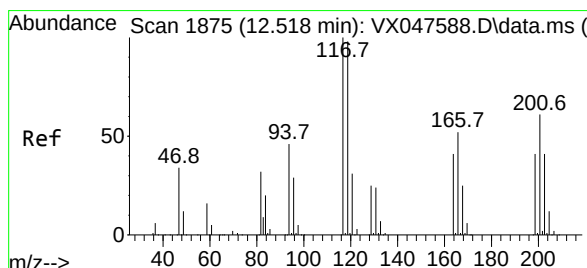
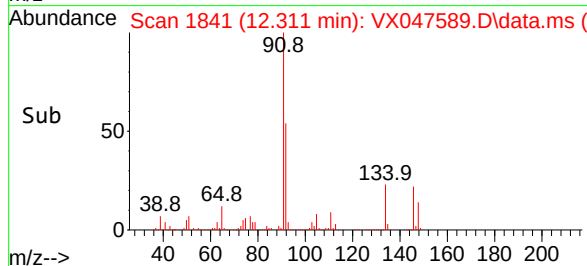
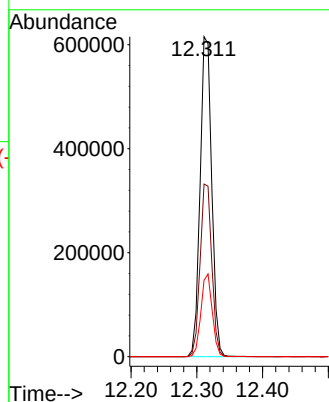
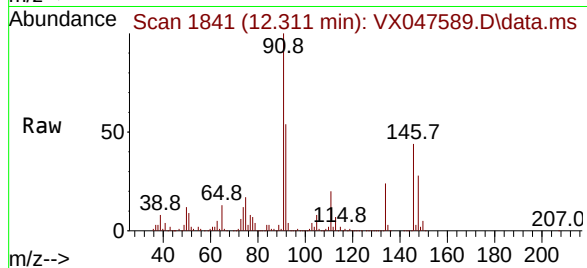
134 25.1 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachloroethane

Concen: 107.304 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX047589.D

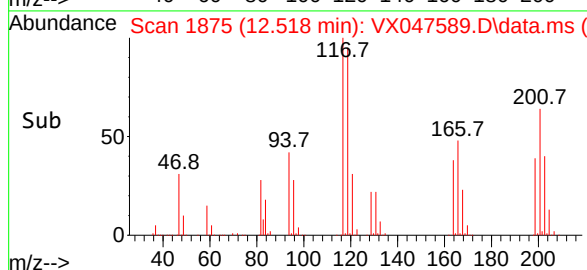
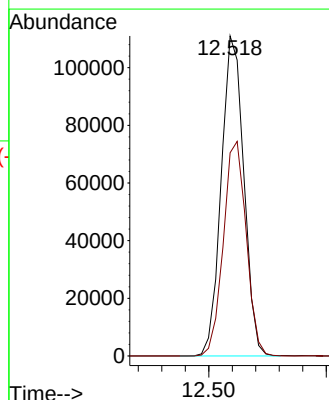
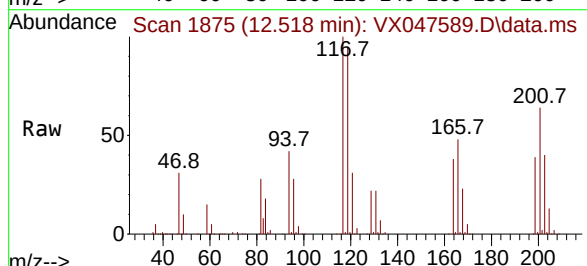
Acq: 16 Sep 2025 11:40

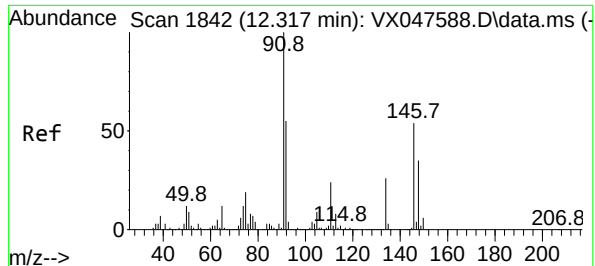
Tgt Ion:117 Resp: 148048

Ion Ratio Lower Upper

117 100

201 68.1 34.2 102.5





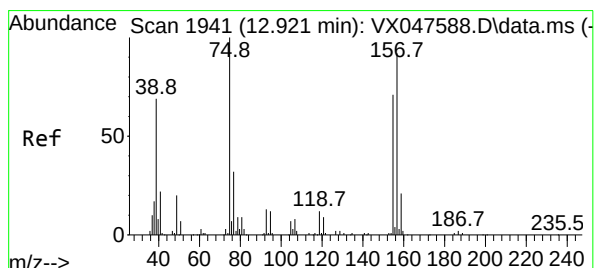
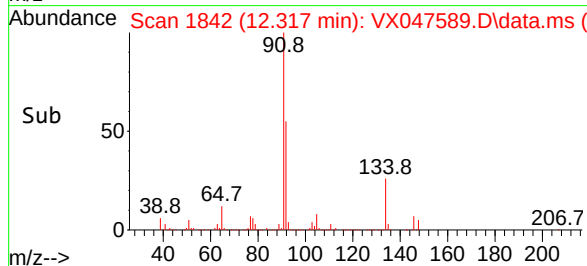
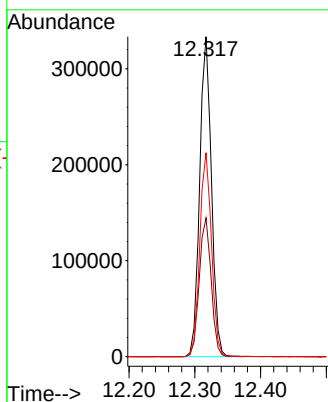
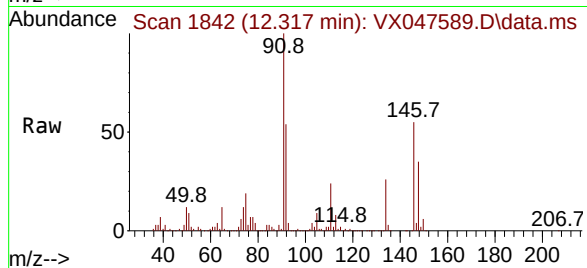
#91
1,2-Dichlorobenzene
Concen: 102.352 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:146 Resp: 41449
Ion Ratio Lower Upper
146 100
111 43.9 22.2 66.6
148 63.4 31.8 95.4

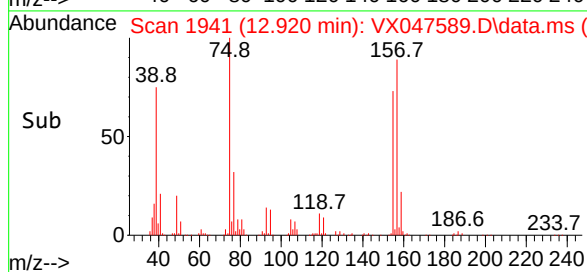
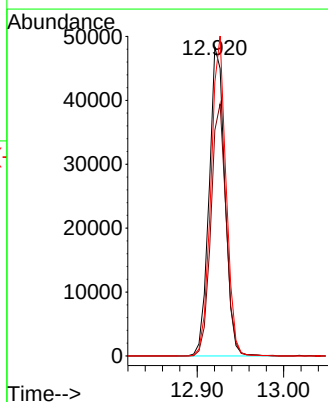
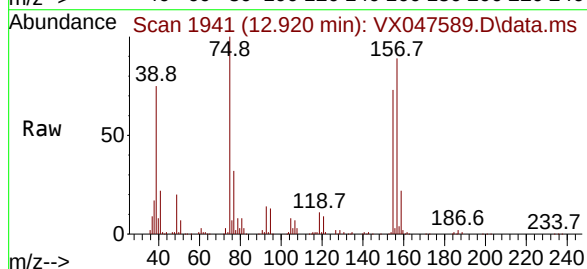
Manual Integrations
APPROVED

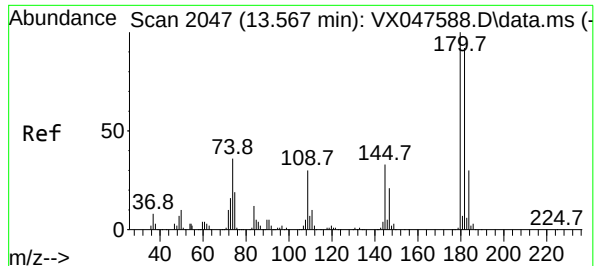
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 107.225 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Tgt Ion: 75 Resp: 61029
Ion Ratio Lower Upper
75 100
155 79.0 37.7 113.1
157 99.2 49.8 149.4





#93

1,2,4-Trichlorobenzene

Concen: 105.922 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

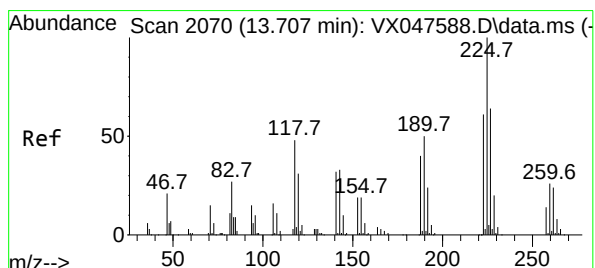
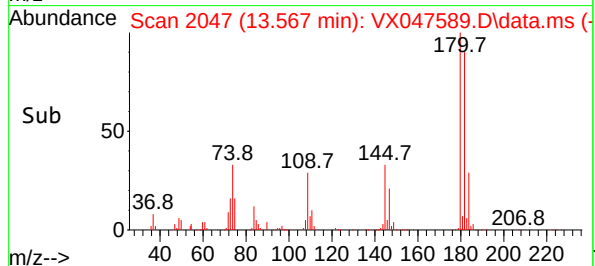
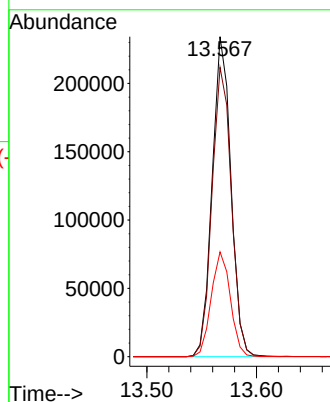
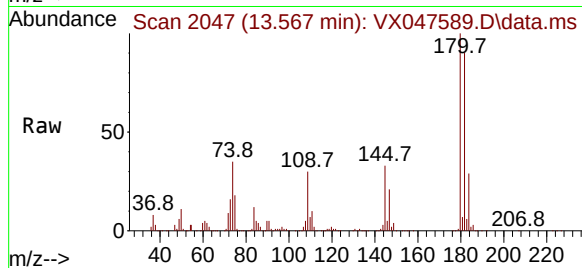
VSTDICC100

Tgt Ion:	180	Resp:	27877
Ion Ratio	Lower	Upper	
180	100		
182	93.2	46.6	139.8
145	33.3	16.4	49.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#94

Hexachlorobutadiene

Concen: 103.049 ug/l

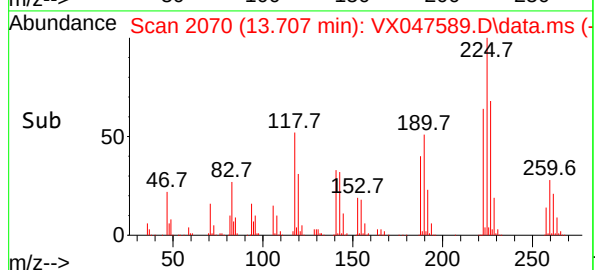
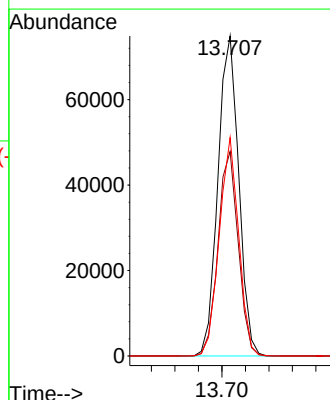
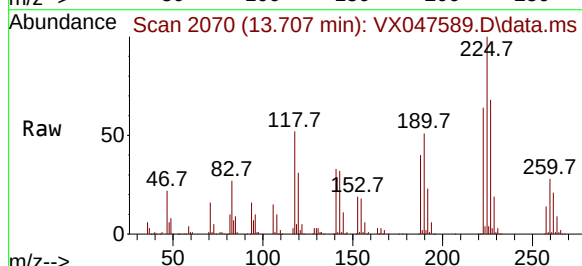
RT: 13.707 min Scan# 2070

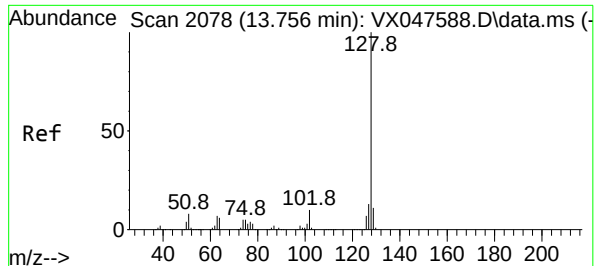
Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Tgt Ion:	225	Resp:	92124
Ion Ratio	Lower	Upper	
225	100		
223	62.0	31.7	95.1
227	63.8	32.0	96.0





#95

Naphthalene

Concen: 106.620 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

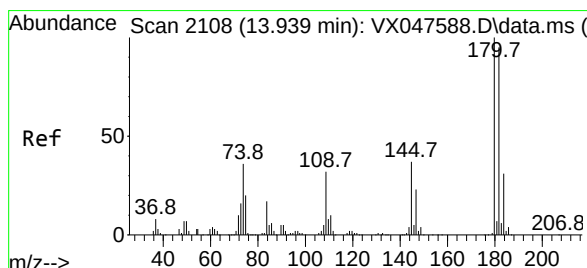
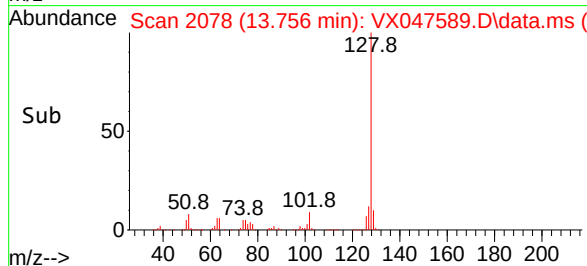
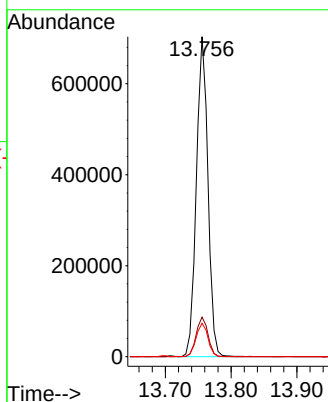
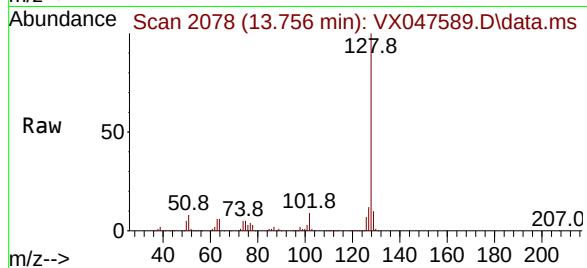
Tgt Ion:	128	Resp:	85449
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.2	15.2
129	10.8	8.8	13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#96

1,2,3-Trichlorobenzene

Concen: 107.633 ug/l

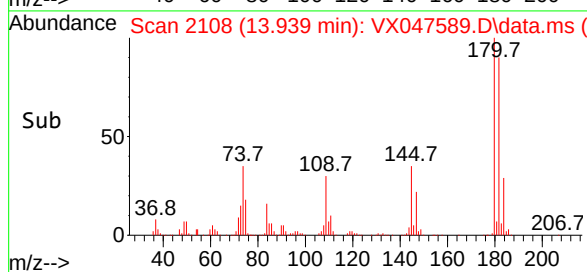
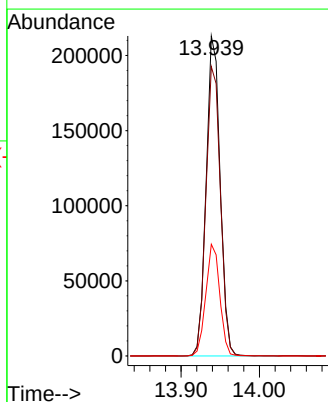
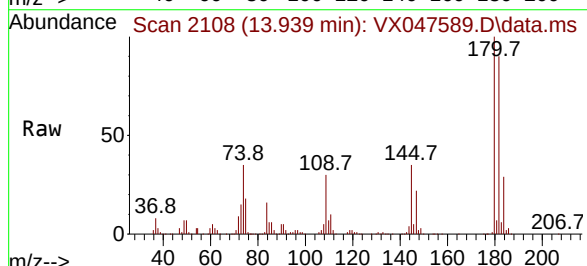
RT: 13.939 min Scan# 2108

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Tgt Ion:	180	Resp:	263512
Ion Ratio	Lower	Upper	
180	100		
182	93.6	47.6	142.8
145	35.0	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047590.D
 Acq On : 16 Sep 2025 12:01
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Sep 17 06:16:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
 Supervised By :Mahesh Dadoda 09/18/2025

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	153177	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	274804	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	241818	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	114743	50.000	ug/l	# 0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.940	65	396627	162.673	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 325.340%#	
35) Dibromofluoromethane	5.373	113	303728	164.802	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 329.600%#	
50) Toluene-d8	8.635	98	1041079	163.253	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 326.500%#	
62) 4-Bromofluorobenzene	11.067	95	399386	165.020	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 330.040%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.173	85	226166	142.586	ug/l	99
3) Chloromethane	1.301	50	297259	142.593	ug/l	99
4) Vinyl Chloride	1.380	62	302303	148.140	ug/l	98
5) Bromomethane	1.605	94	147541	114.019	ug/l	98
6) Chloroethane	1.691	64	195927	143.652	ug/l	99
7) Trichlorofluoromethane	1.892	101	453116	149.545	ug/l	99
8) Diethyl Ether	2.136	74	188006	151.684	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	267995	151.264	ug/l	99
10) Methyl Iodide	2.453	142	407242	147.384	ug/l	99
11) Tert butyl alcohol	2.959	59	215927	795.166	ug/l	100
12) 1,1-Dichloroethene	2.325	96	273692	150.388	ug/l	97
13) Acrolein	2.239	56	223763	894.203	ug/l	98
14) Allyl chloride	2.666	41	554779	147.727	ug/l	99
15) Acrylonitrile	3.063	53	790790	786.201	ug/l	99
16) Acetone	2.380	43	686119	647.201	ug/l	98
17) Carbon Disulfide	2.514	76	714503	143.412	ug/l	99
18) Methyl Acetate	2.703	43	404736	171.548	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	1015295	152.826	ug/l	100
20) Methylene Chloride	2.788	84	324032	144.398	ug/l	96
21) trans-1,2-Dichloroethene	3.093	96	291616	148.833	ug/l	98
22) Diisopropyl ether	3.757	45	1095726	150.551	ug/l	97
23) Vinyl Acetate	3.715	43	4504849	773.364	ug/l	100
24) 1,1-Dichloroethane	3.605	63	587129	151.776	ug/l	98
25) 2-Butanone	4.544	43	973938	736.502	ug/l	99
26) 2,2-Dichloropropane	4.471	77	486890	151.414	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	366262	152.638	ug/l	99
28) Bromochloromethane	4.885	49	289548	171.451	ug/l	99
29) Tetrahydrofuran	4.989	42	616374	774.811	ug/l	100
30) Chloroform	5.080	83	591709	151.367	ug/l	99
31) Cyclohexane	5.458	56	456119	141.570	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	506654	152.802	ug/l	99
36) 1,1-Dichloropropene	5.684	75	386601	143.556	ug/l	99
37) Ethyl Acetate	4.702	43	444461	154.141	ug/l	99
38) Carbon Tetrachloride	5.666	117	427263	146.021	ug/l	98
39) Methylcyclohexane	7.367	83	456694	149.395	ug/l	98
40) Benzene	6.025	78	1202846	147.057	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047590.D
 Acq On : 16 Sep 2025 12:01
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Sep 17 06:16:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:04:35 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 09/17/2025
 Supervised By :Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.904	41	223218	149.951	ug/l	99
42) 1,2-Dichloroethane	6.074	62	455978	146.515	ug/l	99
43) Isopropyl Acetate	6.324	43	724888	153.283	ug/l	99
44) Trichloroethene	7.111	130	299673	151.542	ug/l	96
45) 1,2-Dichloropropane	7.415	63	316720	151.219	ug/l	99
46) Dibromomethane	7.568	93	228550	149.954	ug/l	97
47) Bromodichloromethane	7.806	83	483438	153.710	ug/l	98
48) Methyl methacrylate	7.678	41	367931	156.194	ug/l	99
49) 1,4-Dioxane	7.647	88	82739	3475.565	ug/l	98
51) 4-Methyl-2-Pentanone	8.562	43	2008063	765.849	ug/l	100
52) Toluene	8.702	92	739332	146.712	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	503912	157.076	ug/l	100
54) cis-1,3-Dichloropropene	8.354	75	530566	154.732	ug/l	99
55) 1,1,2-Trichloroethane	9.135	97	289103	148.781	ug/l	99
56) Ethyl methacrylate	9.104	69	490623	160.773	ug/l	97
57) 1,3-Dichloropropane	9.293	76	502121	150.426	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.232	63	1202206	749.661	ug/l	99
59) 2-Hexanone	9.415	43	1412417	750.035	ug/l	99
60) Dibromochloromethane	9.506	129	347748	155.318	ug/l	98
61) 1,2-Dibromoethane	9.592	107	302715	152.949	ug/l	99
64) Tetrachloroethene	9.263	164	227931	144.590	ug/l	98
65) Chlorobenzene	10.061	112	828239	150.763	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	291433	153.733	ug/l	98
67) Ethyl Benzene	10.177	91	1431554	151.026	ug/l	99
68) m/p-Xylenes	10.287	106	1059776	300.381	ug/l	99
69) o-Xylene	10.628	106	521840	152.920	ug/l	99
70) Styrene	10.640	104	917532	153.449	ug/l	99
71) Bromoform	10.781	173	229683	162.262	ug/l	99
73) Isopropylbenzene	10.945	105	1321409	151.477	ug/l	99
74) N-amyl acetate	10.829	43	636879	160.099	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	403906	153.035	ug/l	99
76) 1,2,3-Trichloropropane	11.226	75	366171m	153.692	ug/l	
77) Bromobenzene	11.183	156	328336	152.818	ug/l	99
78) n-propylbenzene	11.287	91	1550316	150.337	ug/l	99
79) 2-Chlorotoluene	11.348	91	939707	148.781	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	1091593	152.306	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	145921	160.176	ug/l	97
82) 4-Chlorotoluene	11.439	91	1127233	151.112	ug/l	100
83) tert-Butylbenzene	11.701	119	1106532	150.819	ug/l	99
84) 1,2,4-Trimethylbenzene	11.738	105	1106914	152.336	ug/l	100
85) sec-Butylbenzene	11.872	105	1319819	151.448	ug/l	99
86) p-Isopropyltoluene	11.994	119	1103210	149.530	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	605123	151.633	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	613617	149.814	ug/l	99
89) n-Butylbenzene	12.317	91	1032357	151.222	ug/l	100
90) Hexachloroethane	12.518	117	211472	163.258	ug/l	98
91) 1,2-Dichlorobenzene	12.317	146	582565	153.227	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	89415	167.332	ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	387652	156.884	ug/l	98
94) Hexachlorobutadiene	13.707	225	121791	145.110	ug/l	99
95) Naphthalene	13.756	128	1229363	163.388	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	369382	160.704	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Sep 17 06:16:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:04:35 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

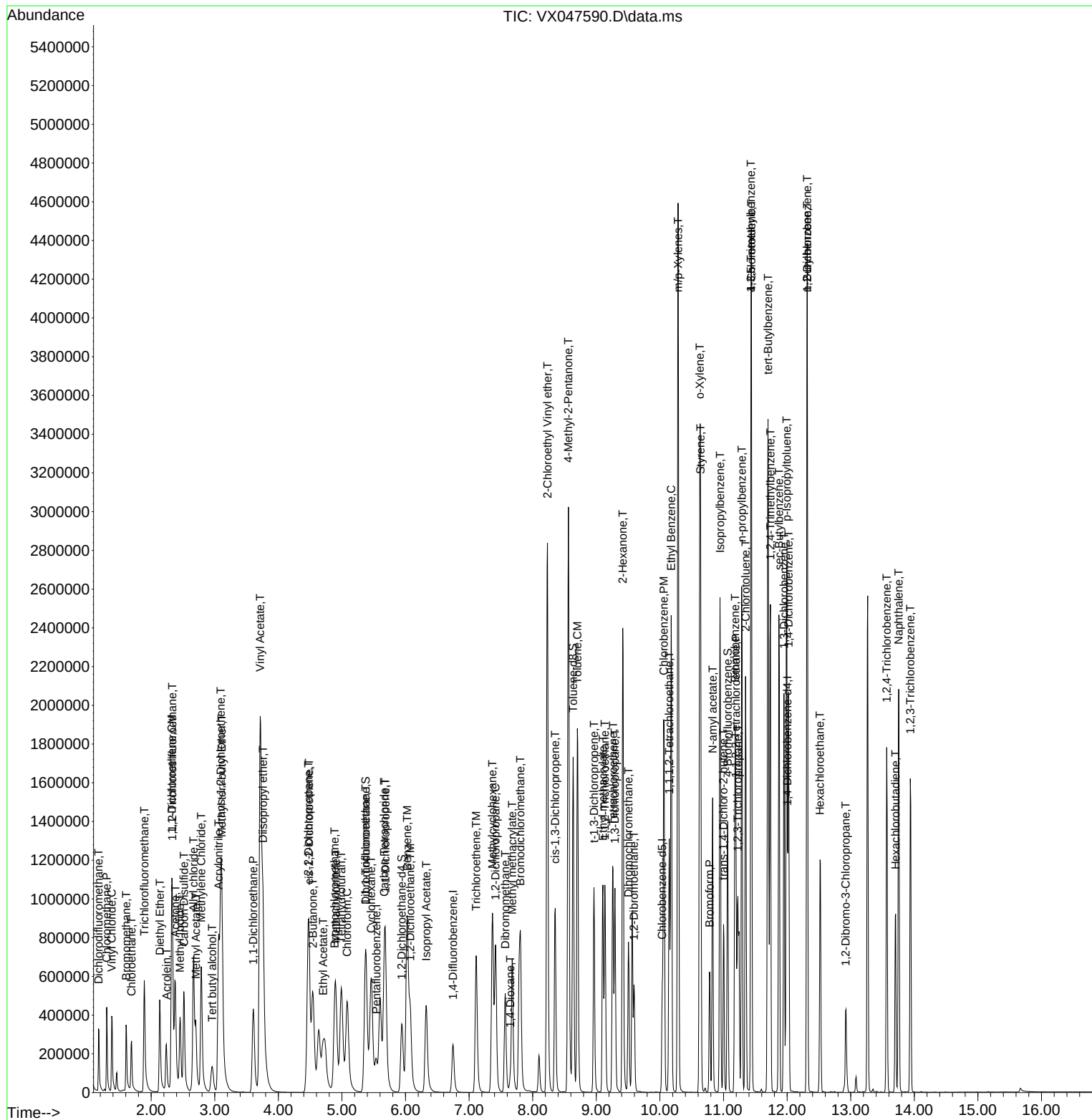
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

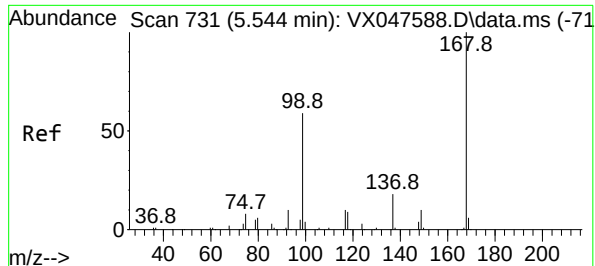
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025





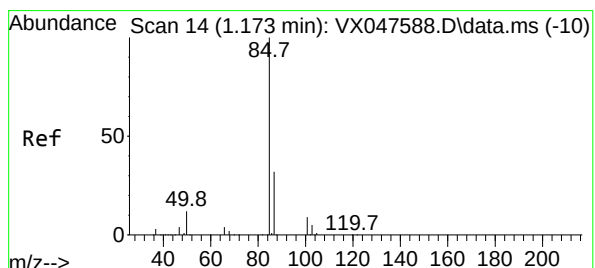
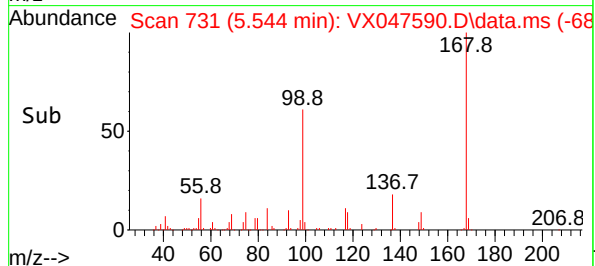
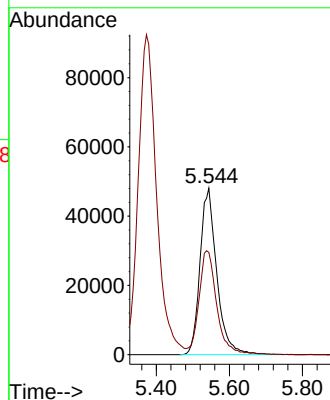
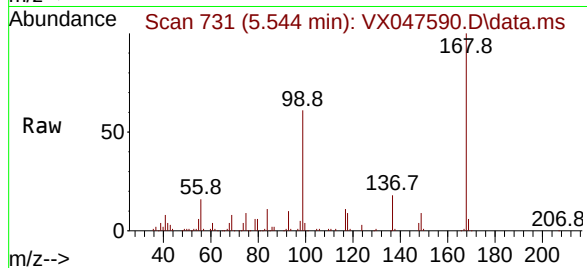
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 15317
Ion Ratio Lower Upper
168 100
99 61.1 48.8 73.2

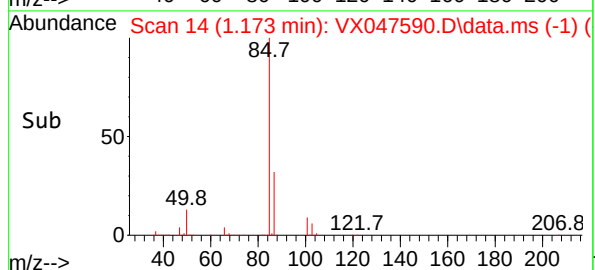
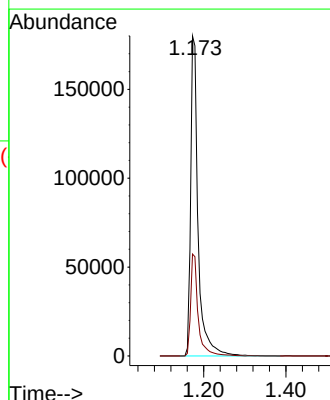
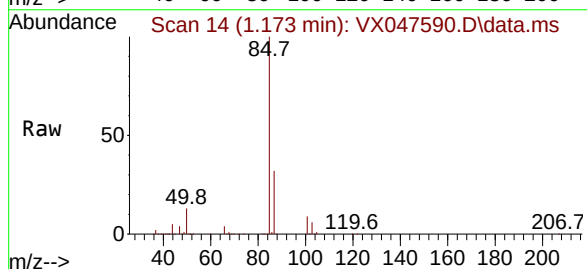
Manual Integrations
APPROVED

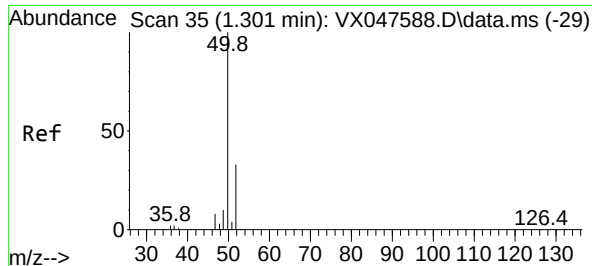
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#2
Dichlorodifluoromethane
Concen: 142.586 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 85 Resp: 226166
Ion Ratio Lower Upper
85 100
87 31.8 15.8 47.3





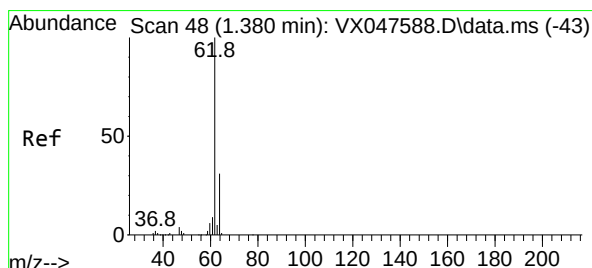
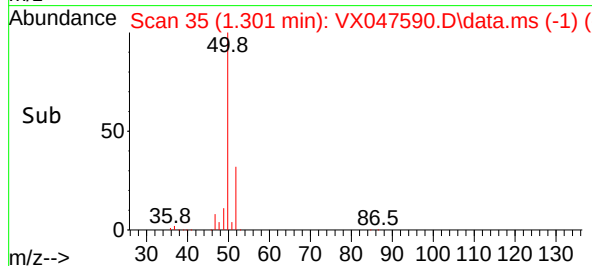
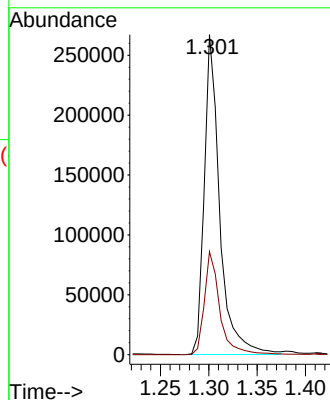
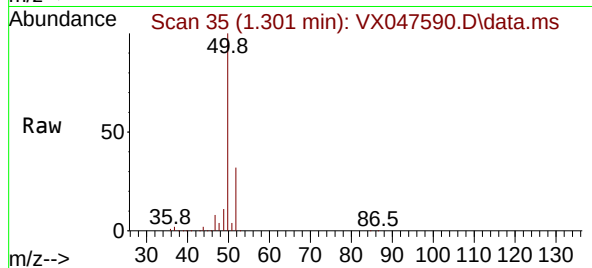
#3
Chloromethane
Concen: 142.593 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 50 Resp: 297259
Ion Ratio Lower Upper
50 100
52 32.2 26.1 39.1

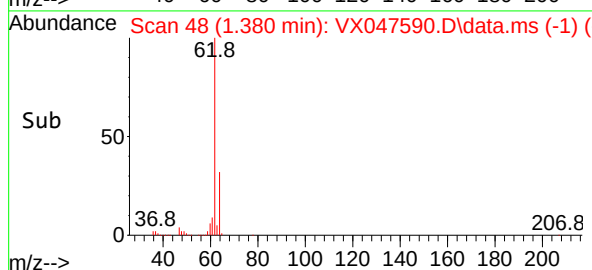
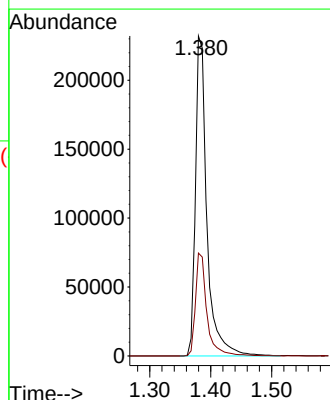
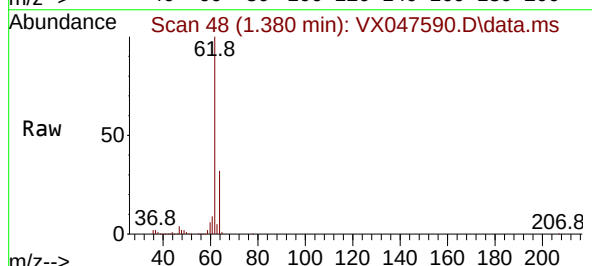
Manual Integrations
APPROVED

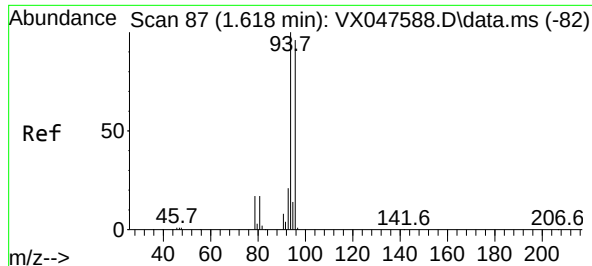
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#4
Vinyl Chloride
Concen: 148.140 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 62 Resp: 302303
Ion Ratio Lower Upper
62 100
64 32.1 24.9 37.3





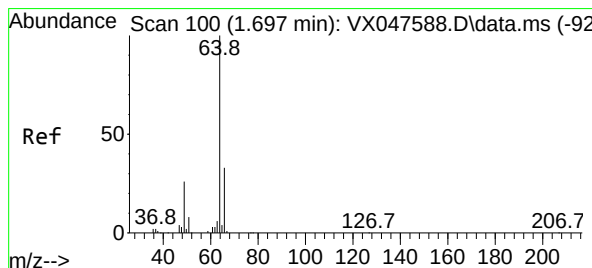
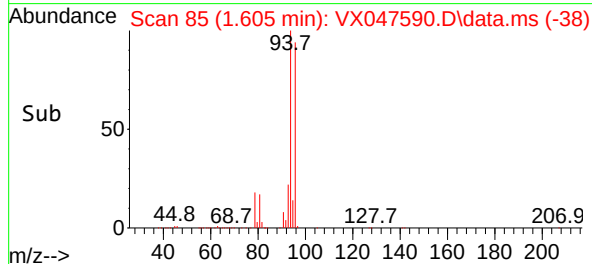
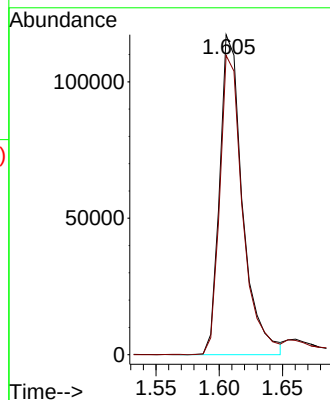
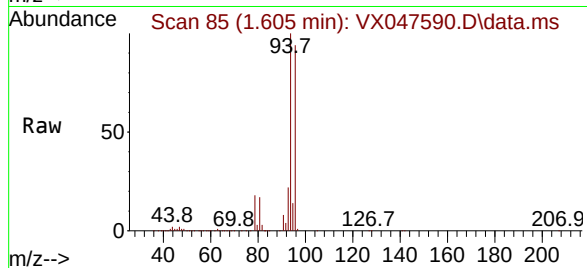
#5
Bromomethane
Concen: 114.019 ug/l
RT: 1.605 min Scan# 81
Delta R.T. -0.012 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 14754
Ion Ratio Lower Upper
94 100
96 93.4 76.6 115.0

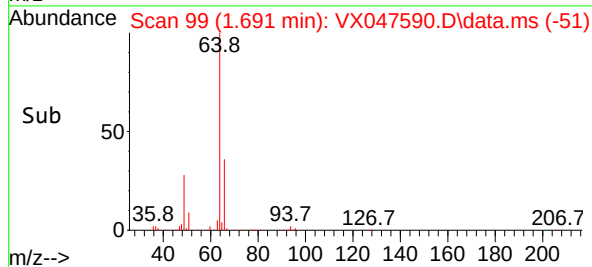
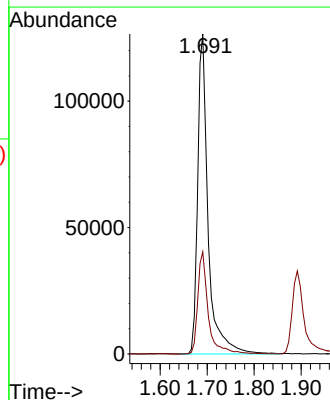
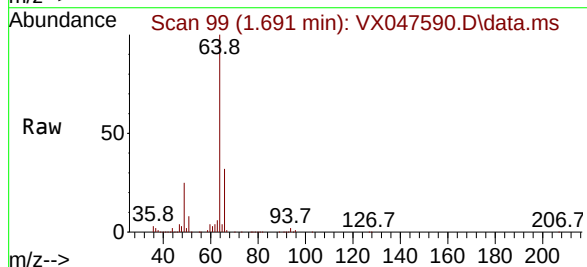
Manual Integrations
APPROVED

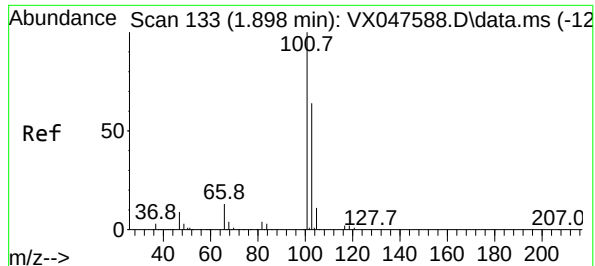
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#6
Chloroethane
Concen: 143.652 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

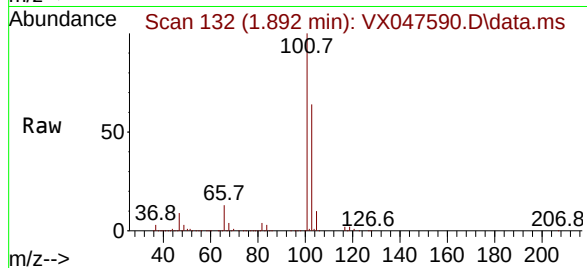
Tgt Ion: 64 Resp: 195927
Ion Ratio Lower Upper
64 100
66 31.9 26.1 39.1





#7
Trichlorofluoromethane
Concen: 149.545 ug/l
RT: 1.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

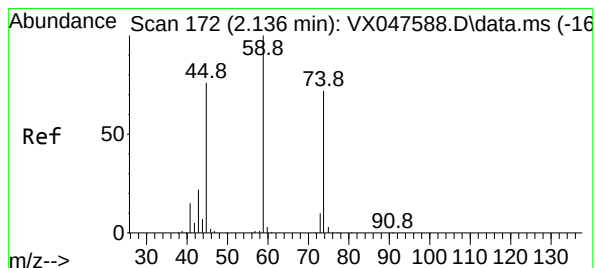
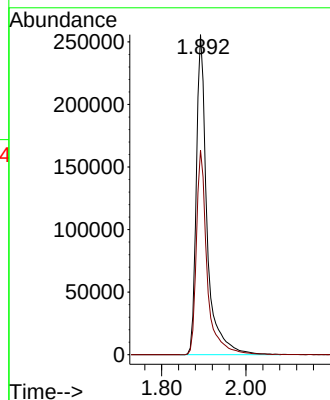
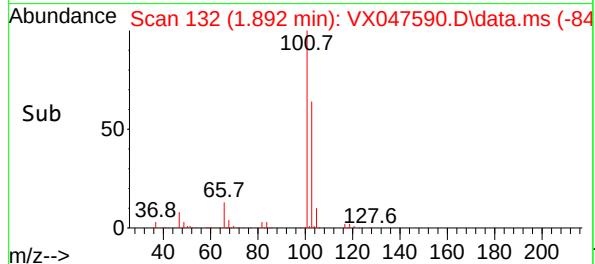
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:101 Resp: 453110
Ion Ratio Lower Upper
101 100
103 63.9 51.4 77.2

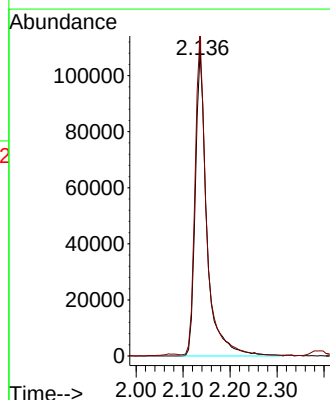
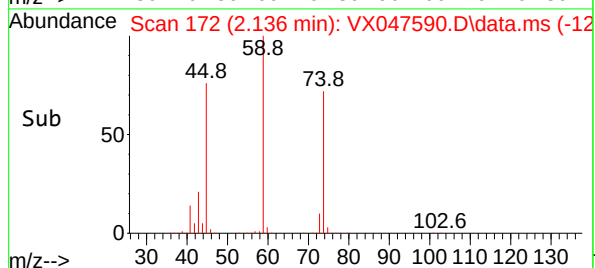
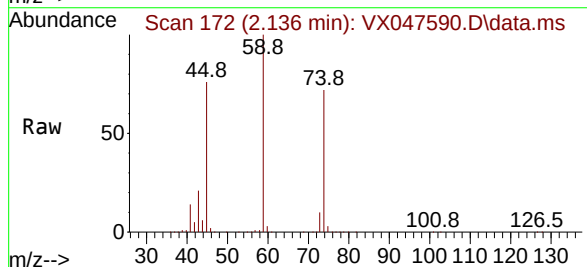
Manual Integrations
APPROVED

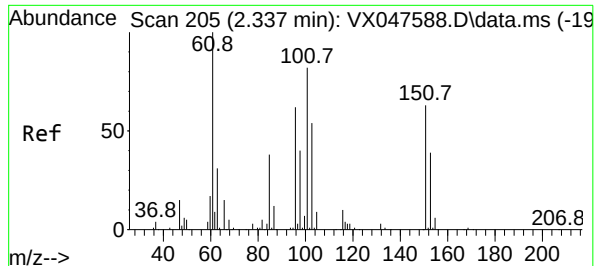
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#8
Diethyl Ether
Concen: 151.684 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 74 Resp: 188006
Ion Ratio Lower Upper
74 100
45 105.5 52.3 156.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 151.264 ug/l

RT: 2.331 min Scan# 205

Delta R.T. -0.006 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

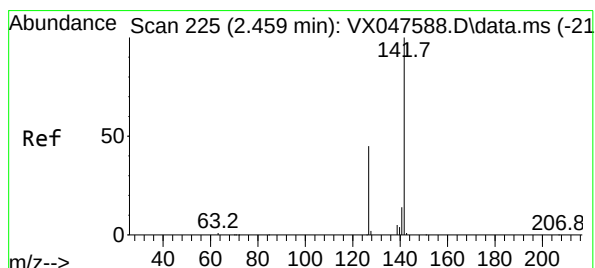
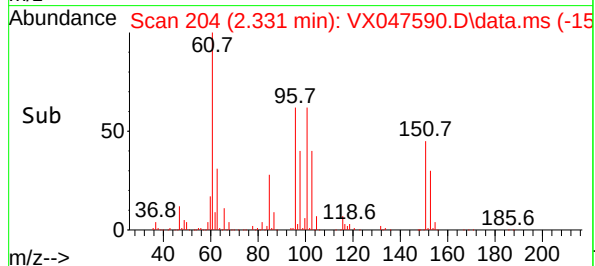
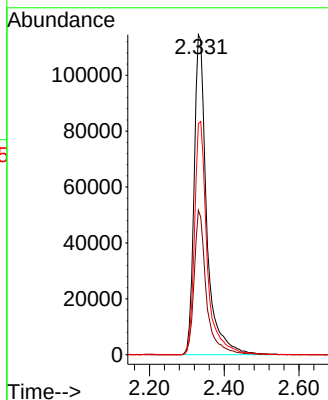
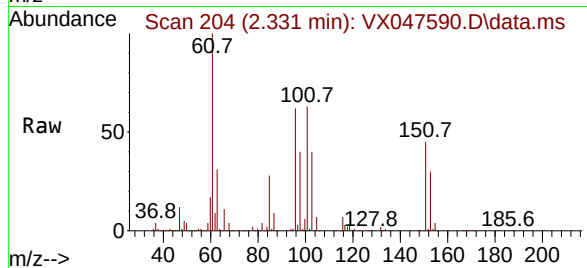
ClientSampleId :

VSTDIC150

Tgt Ion:	101	Resp:	26799
Ion	Ratio	Lower	Upper
101	100		
85	43.9	35.5	53.3
151	73.2	59.4	89.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#10

Methyl Iodide

Concen: 147.384 ug/l

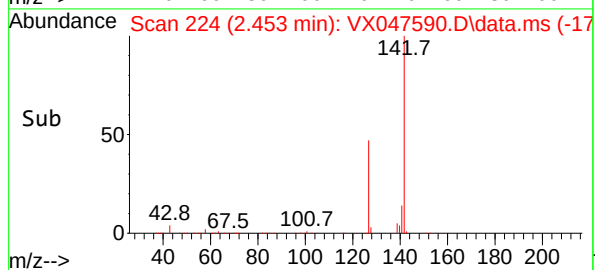
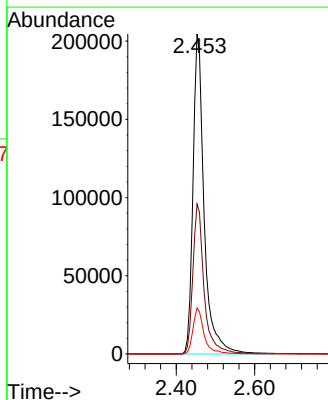
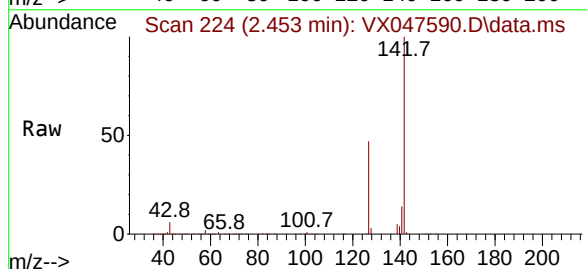
RT: 2.453 min Scan# 224

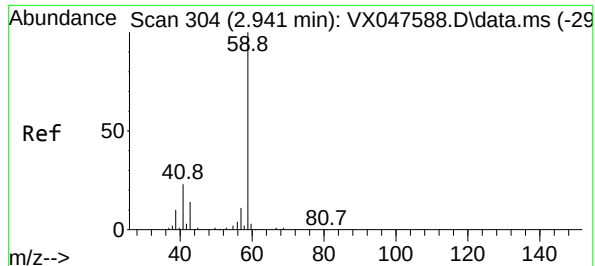
Delta R.T. -0.006 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Tgt Ion:	142	Resp:	407242
Ion	Ratio	Lower	Upper
142	100		
127	47.3	37.2	55.8
141	14.3	11.4	17.0





#11

Tert butyl alcohol

Concen: 795.166 ug/l

RT: 2.959 min Scan# 304

Delta R.T. 0.018 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 59 Resp: 21592

Ion Ratio Lower Upper

59 100

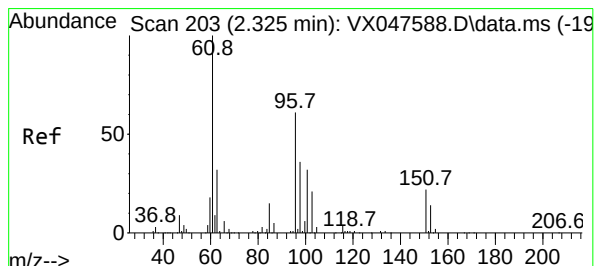
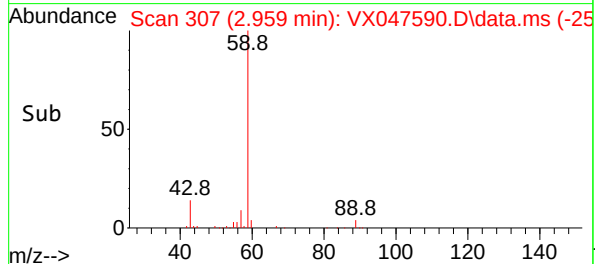
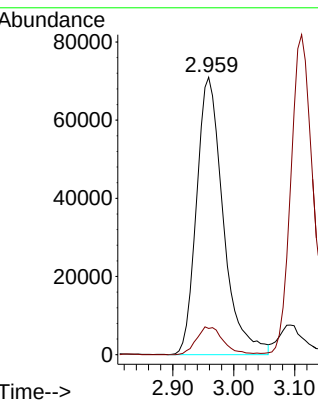
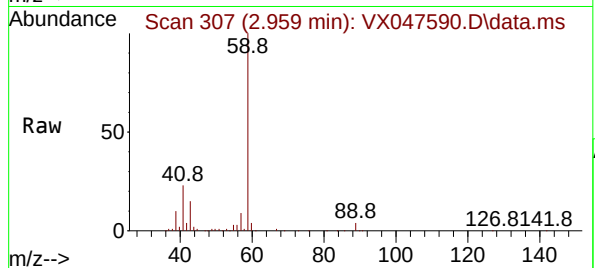
57 10.2 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#12

1,1-Dichloroethene

Concen: 150.388 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

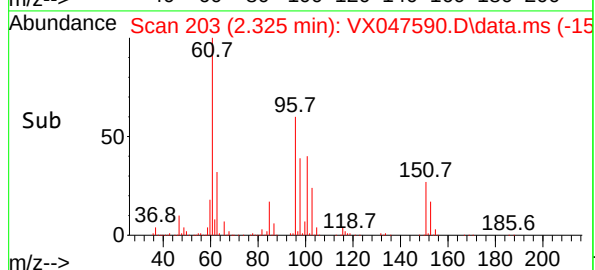
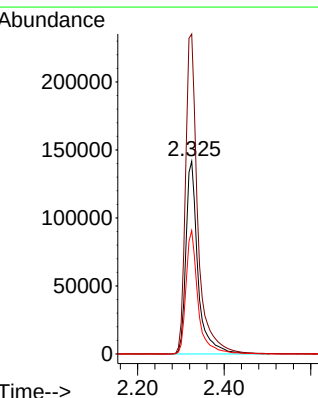
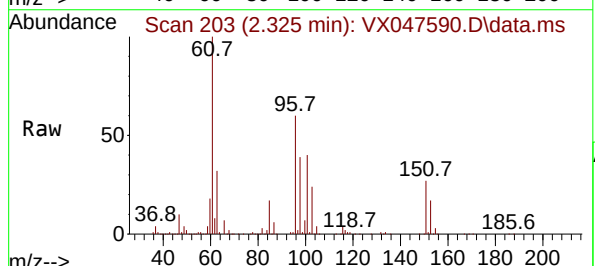
Tgt Ion: 96 Resp: 273692

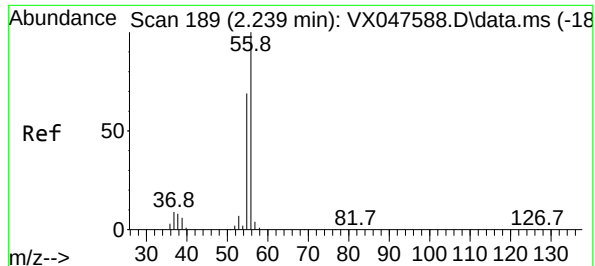
Ion Ratio Lower Upper

96 100

61 166.1 131.0 196.6

98 64.0 47.7 71.5





#13

Acrolein

Concen: 894.203 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 22376

Ion Ratio Lower Upper

56 100

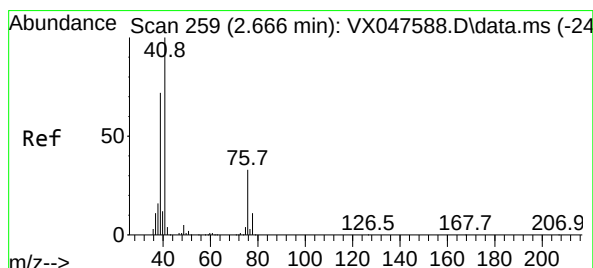
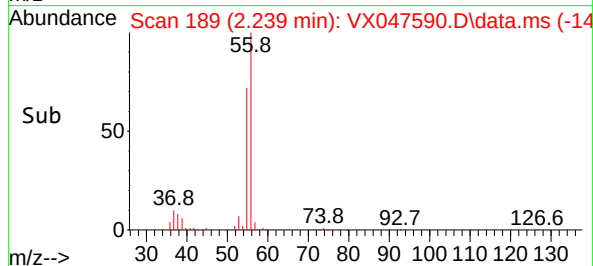
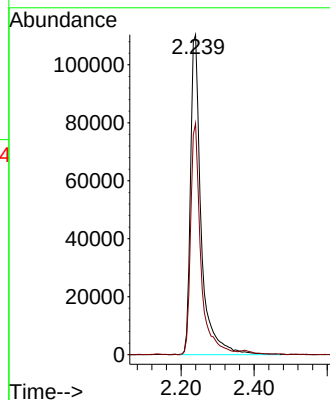
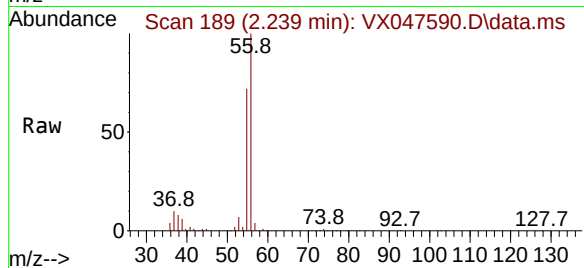
55 69.6 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#14

Allyl chloride

Concen: 147.727 ug/l

RT: 2.666 min Scan# 259

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

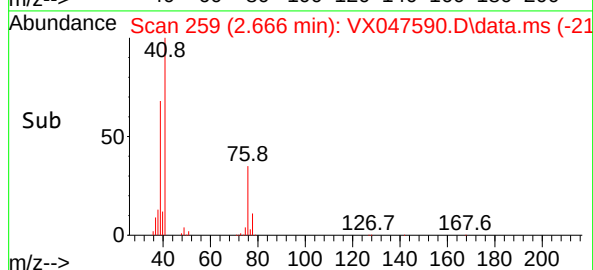
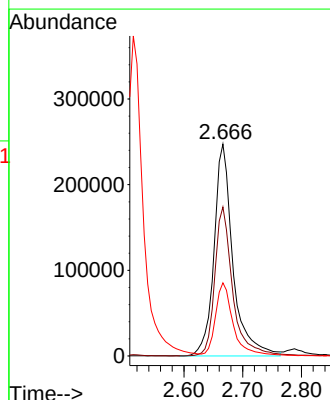
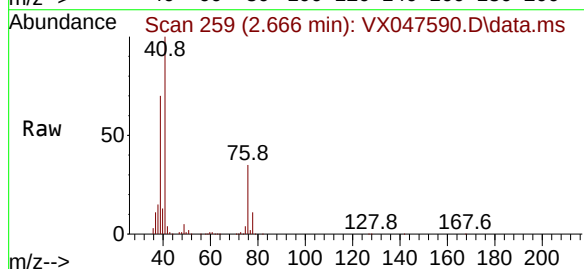
Tgt Ion: 41 Resp: 554779

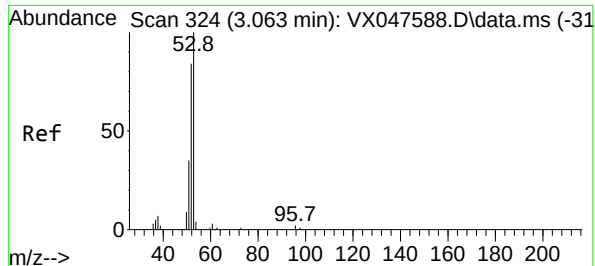
Ion Ratio Lower Upper

41 100

39 67.3 54.7 82.1

76 32.4 25.7 38.5





#15

Acrylonitrile

Concen: 786.201 ug/l

RT: 3.063 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 53 Resp: 790790

Ion Ratio Lower Upper

53 100

52 82.6 66.4 99.6

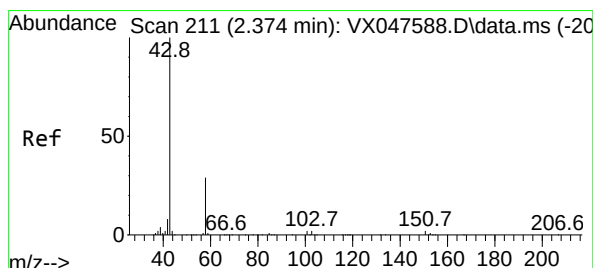
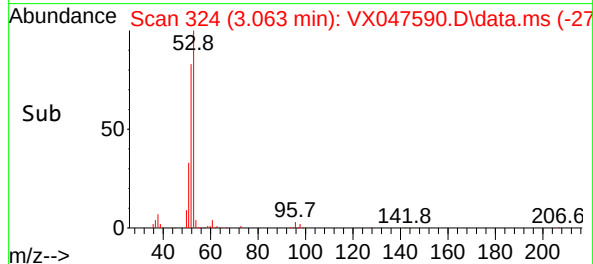
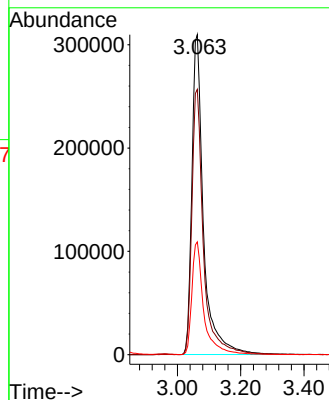
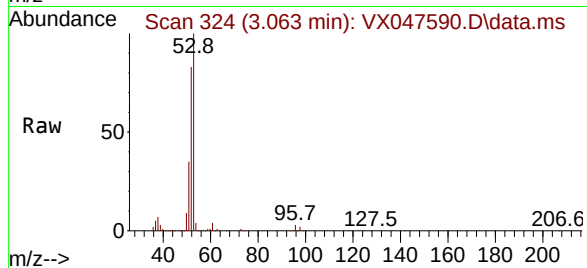
51 36.1 29.5 44.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#16

Acetone

Concen: 647.201 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.006 min

Lab File: VX047590.D

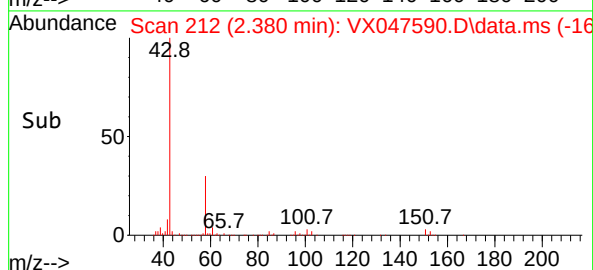
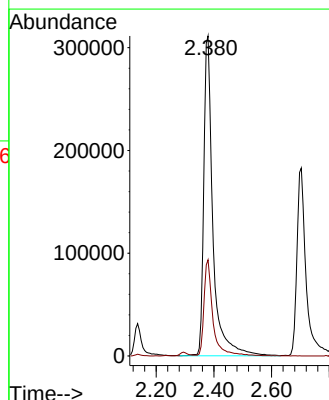
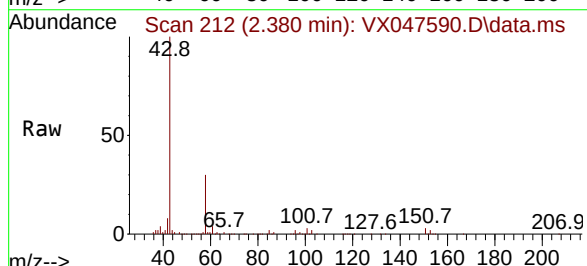
Acq: 16 Sep 2025 12:01

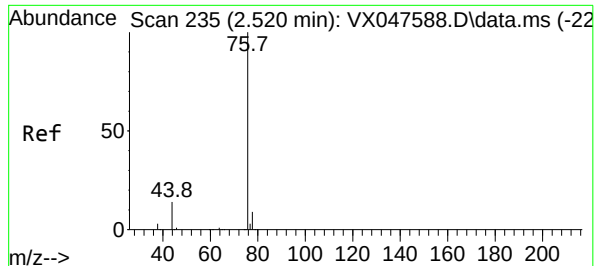
Tgt Ion: 43 Resp: 686119

Ion Ratio Lower Upper

43 100

58 30.0 23.4 35.0





#17

Carbon Disulfide

Concen: 143.412 ug/l

RT: 2.514 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 76 Resp: 71450

Ion Ratio Lower Upper

76 100

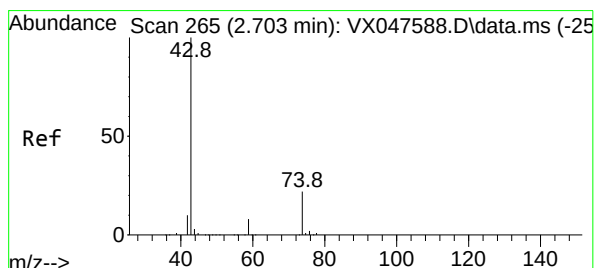
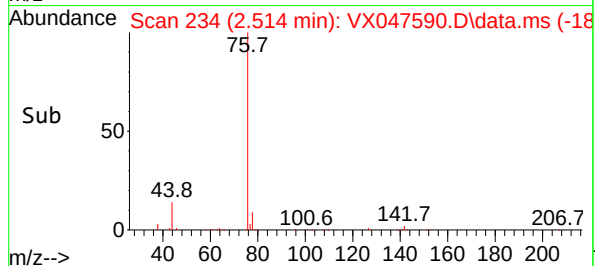
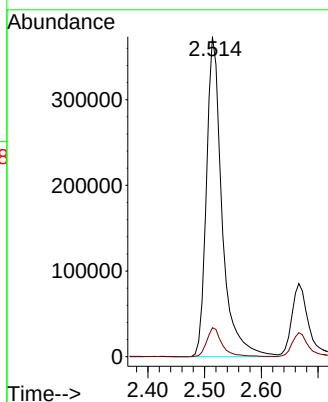
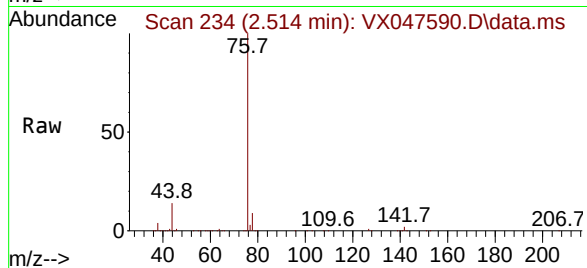
78 9.0 6.8 10.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#18

Methyl Acetate

Concen: 171.548 ug/l

RT: 2.703 min Scan# 265

Delta R.T. -0.000 min

Lab File: VX047590.D

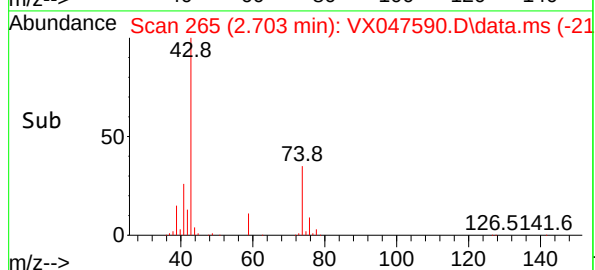
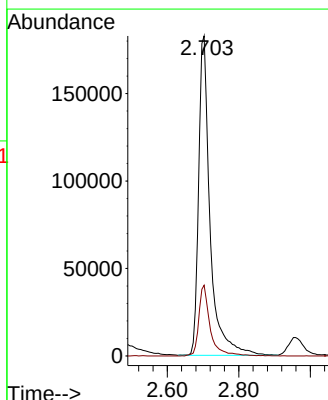
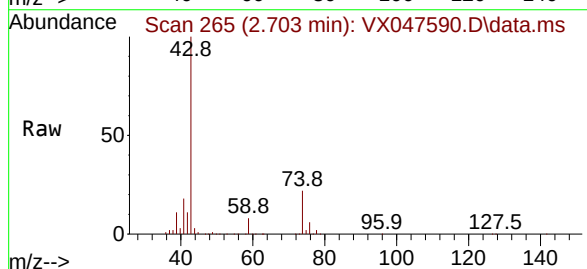
Acq: 16 Sep 2025 12:01

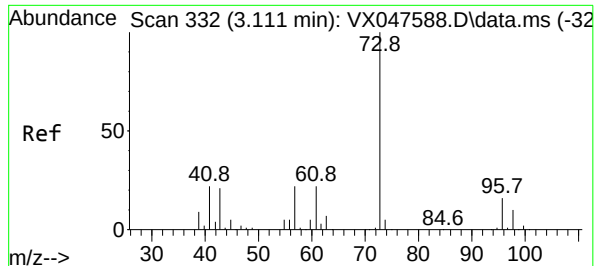
Tgt Ion: 43 Resp: 404736

Ion Ratio Lower Upper

43 100

74 22.1 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 152.826 ug/l

RT: 3.111 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 73 Resp: 101529

Ion Ratio Lower Upper

73 100

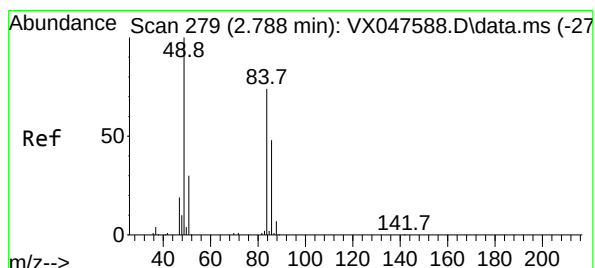
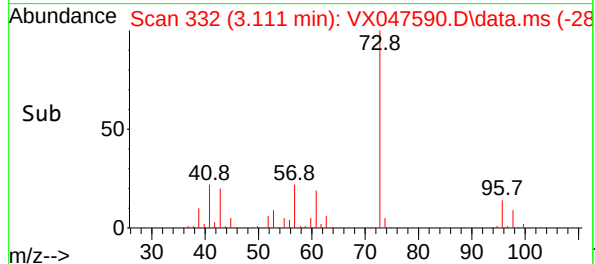
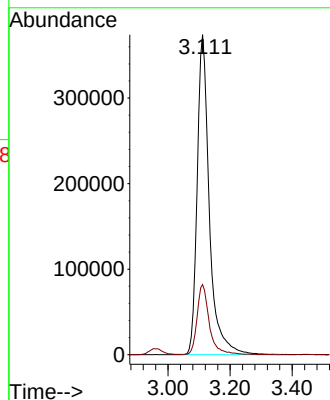
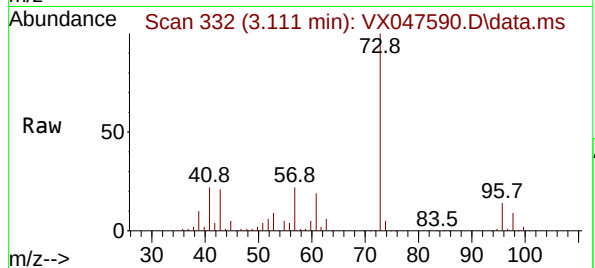
57 21.9 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#20

Methylene Chloride

Concen: 144.398 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Tgt Ion: 84 Resp: 324032

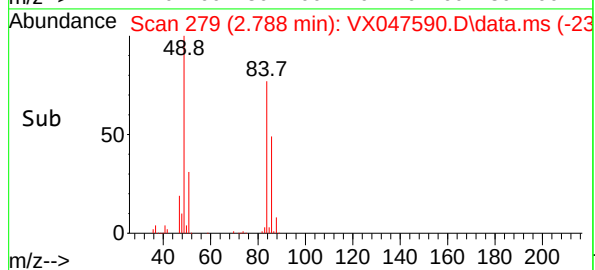
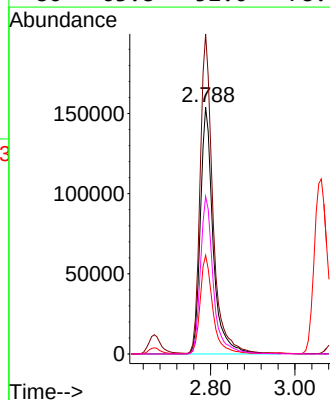
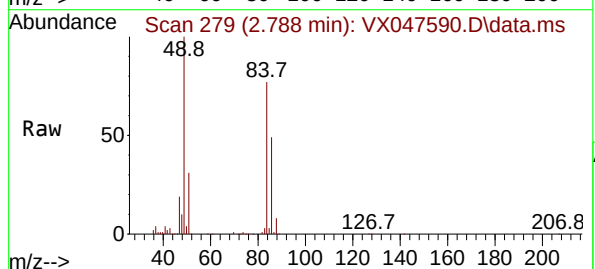
Ion Ratio Lower Upper

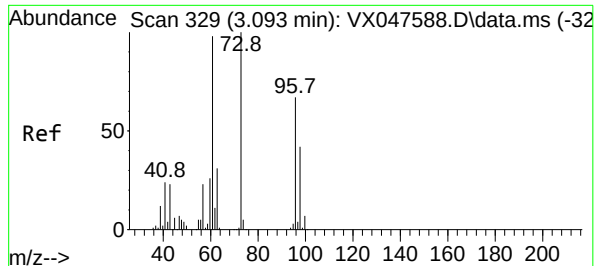
84 100

49 129.4 108.6 162.8

51 39.9 32.6 48.8

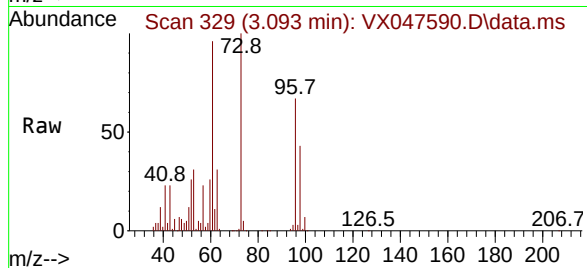
86 63.8 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 148.833 ug/l
RT: 3.093 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

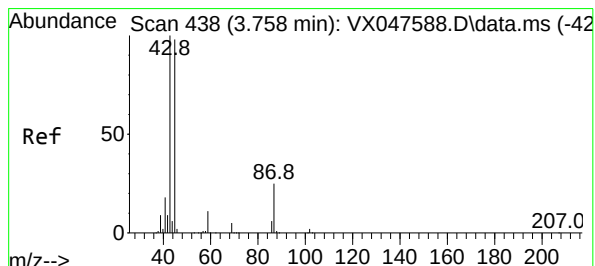
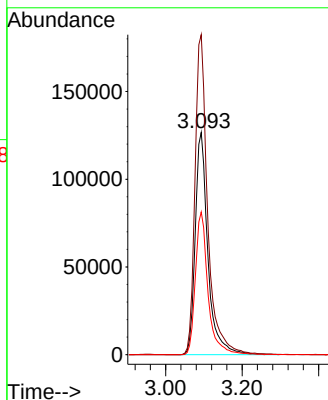
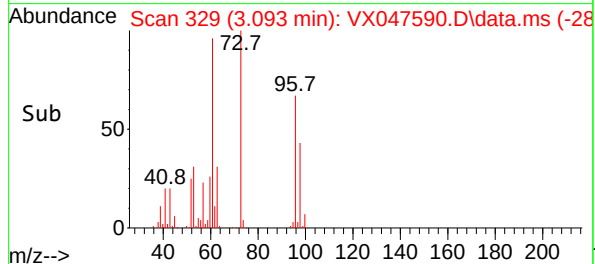
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



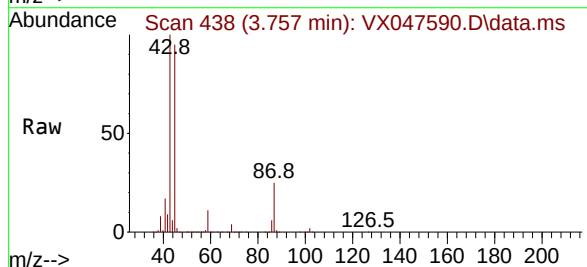
Tgt Ion: 96 Resp: 291610
Ion Ratio Lower Upper
96 100
61 144.0 116.2 174.2
98 64.3 49.3 73.9

Manual Integrations
APPROVED

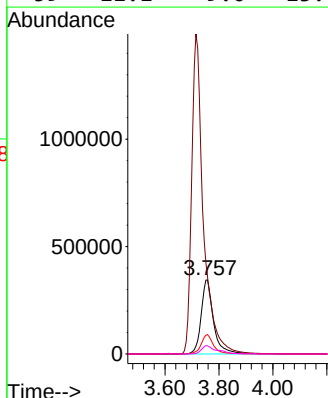
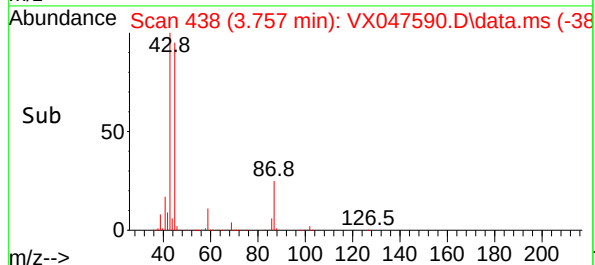
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

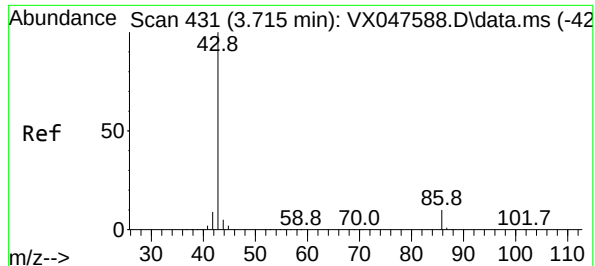


#22
Diisopropyl ether
Concen: 150.551 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01



Tgt Ion: 45 Resp: 1095726
Ion Ratio Lower Upper
45 100
43 104.7 81.0 121.4
87 26.2 20.3 30.5
59 11.1 9.0 13.4





#23

Vinyl Acetate

Concen: 773.364 ug/l

RT: 3.715 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 4504849

Ion Ratio Lower Upper

43 100

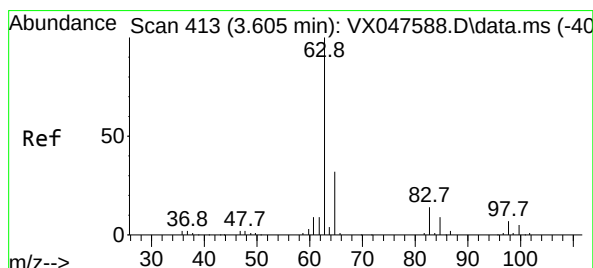
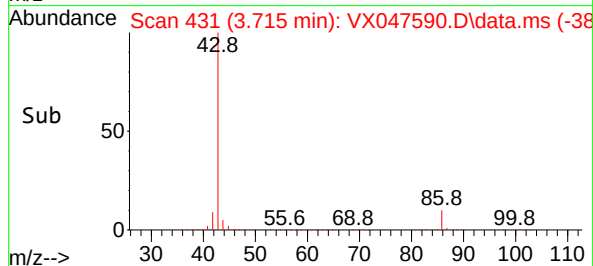
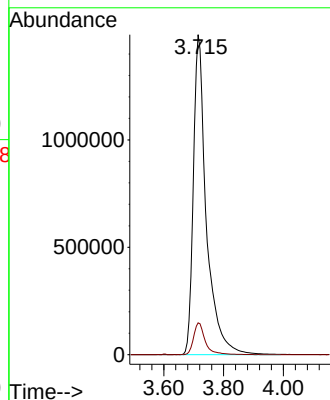
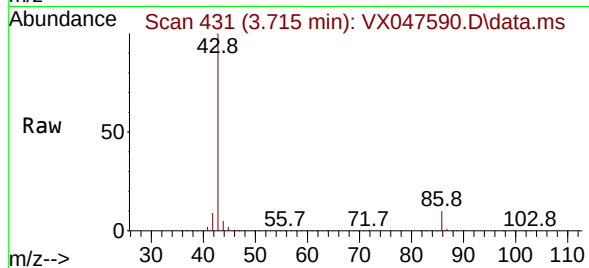
86 10.0 7.8 11.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#24

1,1-Dichloroethane

Concen: 151.776 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

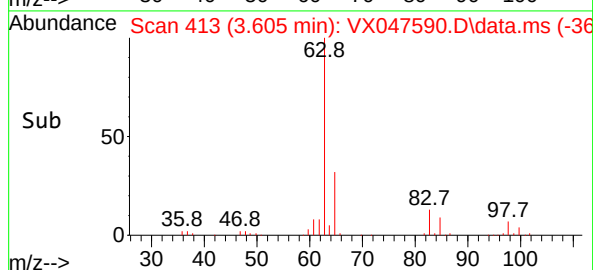
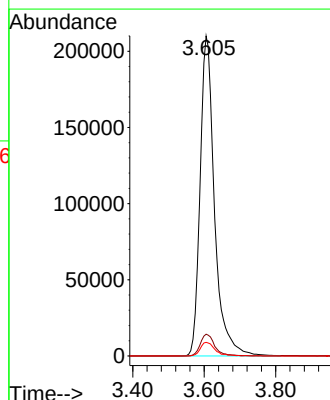
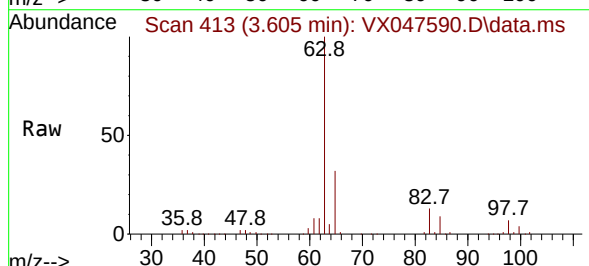
Tgt Ion: 63 Resp: 587129

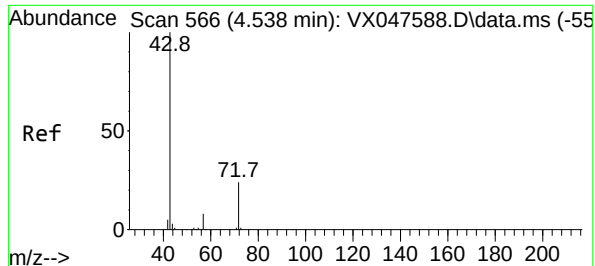
Ion Ratio Lower Upper

63 100

98 6.8 3.8 11.2

100 4.3 2.3 6.9





#25

2-Butanone

Concen: 736.502 ug/l

RT: 4.544 min Scan# 5

Delta R.T. 0.006 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 973938

Ion Ratio Lower Upper

43 100

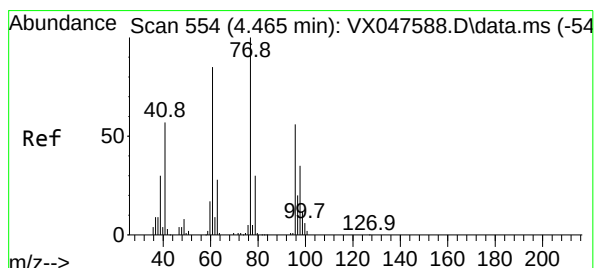
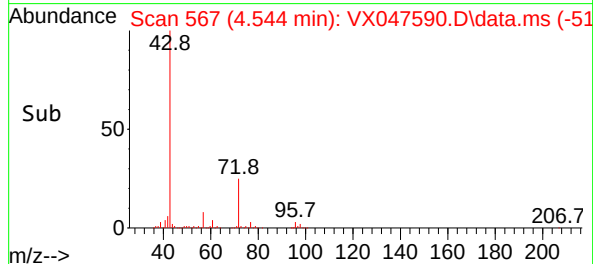
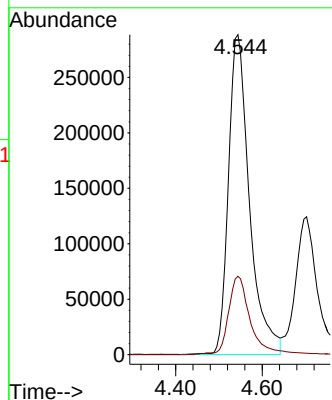
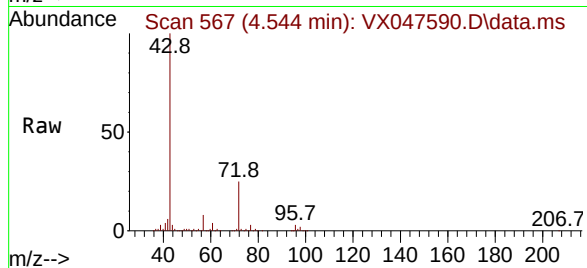
72 24.6 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#26

2,2-Dichloropropane

Concen: 151.414 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX047590.D

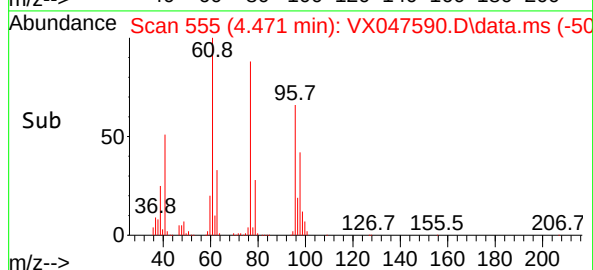
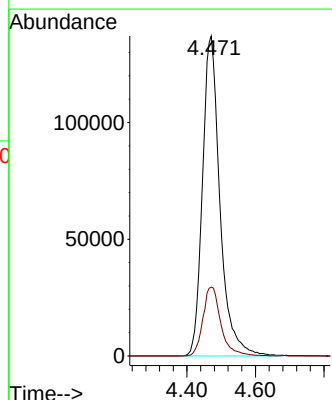
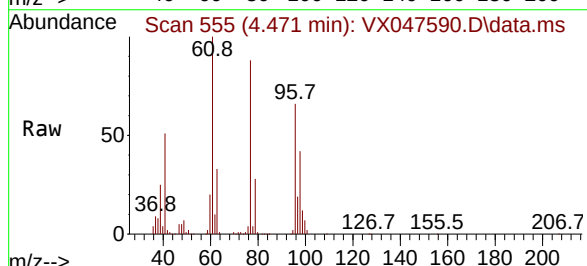
Acq: 16 Sep 2025 12:01

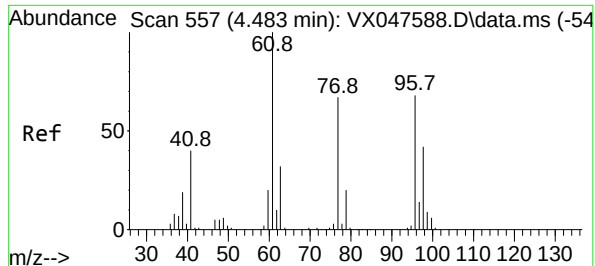
Tgt Ion: 77 Resp: 486890

Ion Ratio Lower Upper

77 100

97 22.1 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 152.638 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 96 Resp: 366262

Ion Ratio Lower Upper

96 100

61 149.8 0.0 303.2

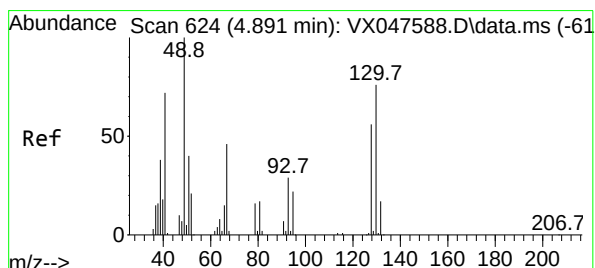
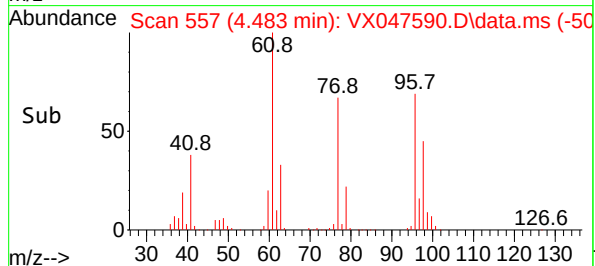
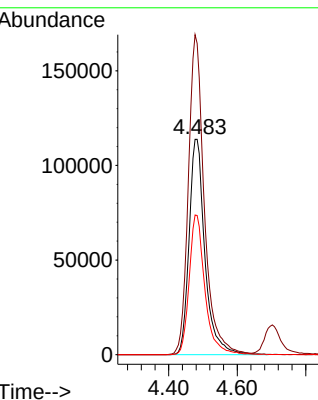
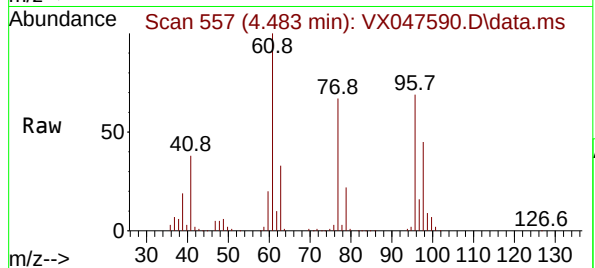
98 64.6 0.0 127.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#28

Bromochloromethane

Concen: 171.451 ug/l

RT: 4.885 min Scan# 623

Delta R.T. -0.006 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

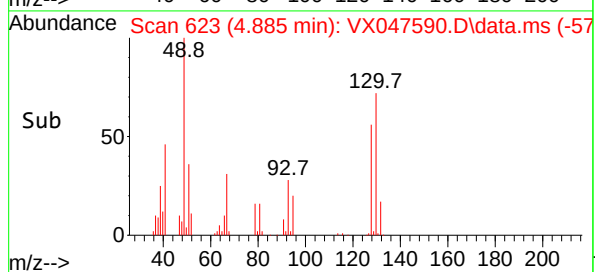
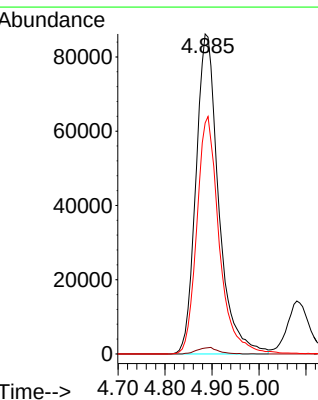
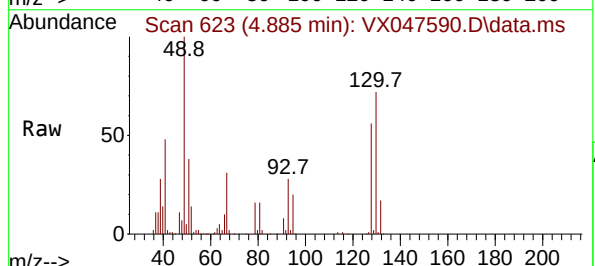
Tgt Ion: 49 Resp: 289548

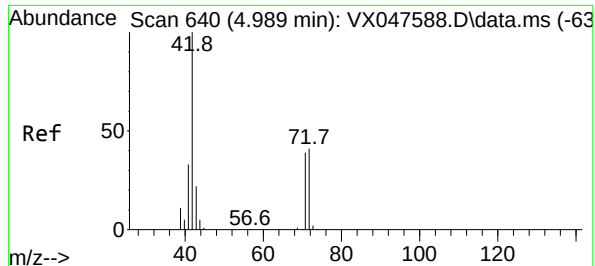
Ion Ratio Lower Upper

49 100

129 1.9 0.0 3.2

130 73.2 57.8 86.8





#29

Tetrahydrofuran

Concen: 774.811 ug/l

RT: 4.989 min Scan# 640

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 42 Resp: 616374

Ion Ratio Lower Upper

42 100

72 42.8 34.2 51.2

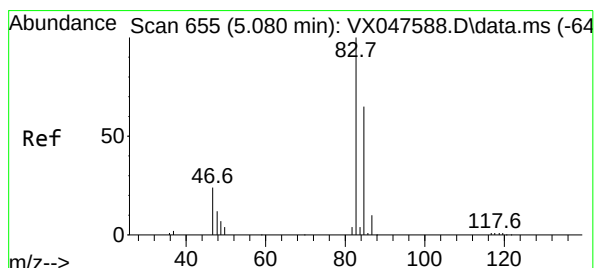
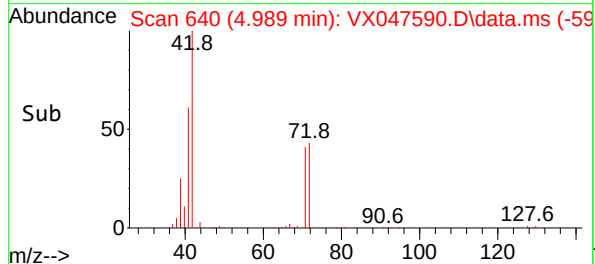
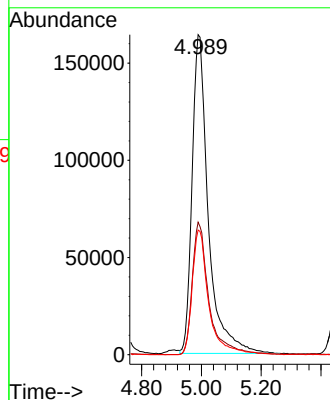
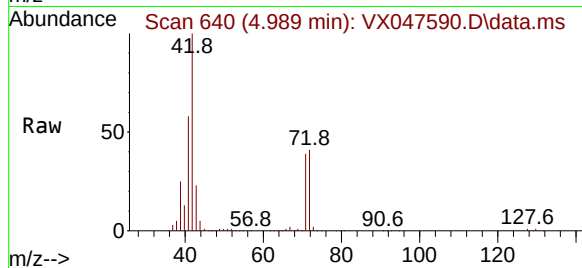
71 39.9 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

Chloroform

Concen: 151.367 ug/l

RT: 5.080 min Scan# 655

Delta R.T. -0.000 min

Lab File: VX047590.D

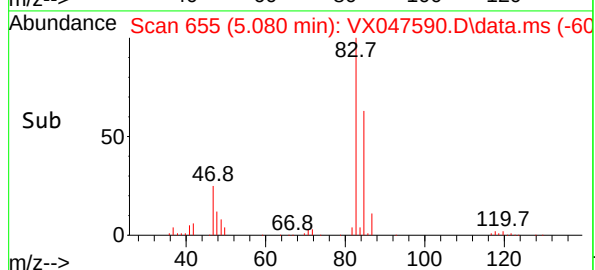
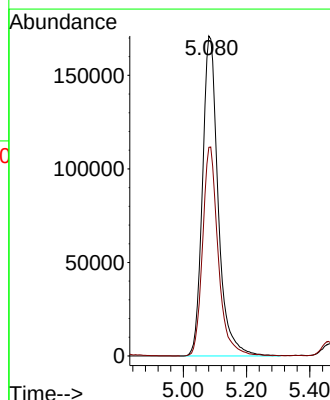
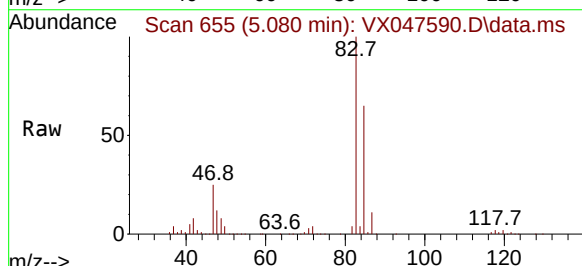
Acq: 16 Sep 2025 12:01

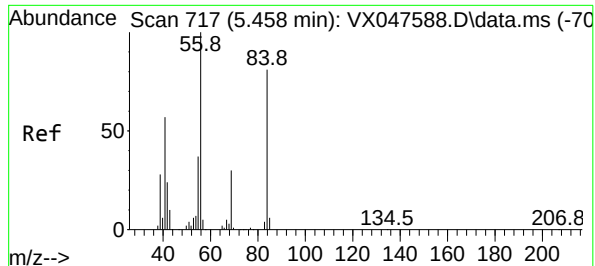
Tgt Ion: 83 Resp: 591709

Ion Ratio Lower Upper

83 100

85 65.2 51.8 77.6





#31

Cyclohexane

Concen: 141.570 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 456119

Ion Ratio Lower Upper

56 100

69 30.5 23.8 35.8

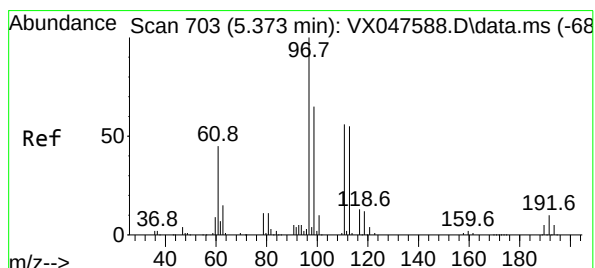
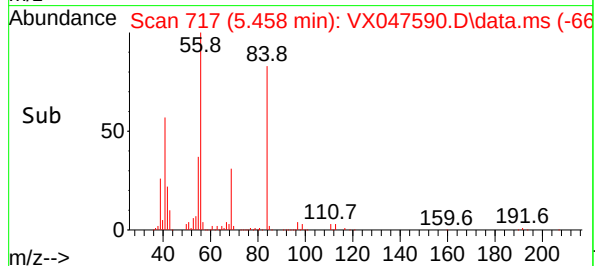
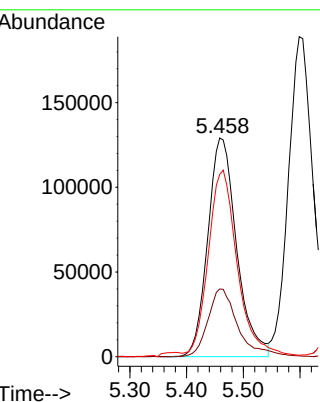
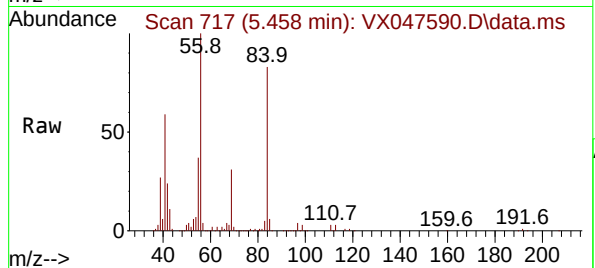
84 81.5 64.6 97.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#32

1,1,1-Trichloroethane

Concen: 152.802 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

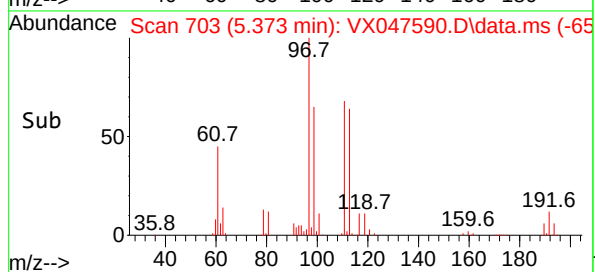
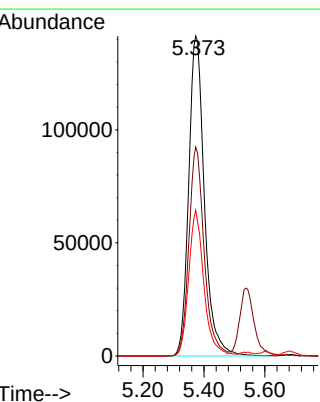
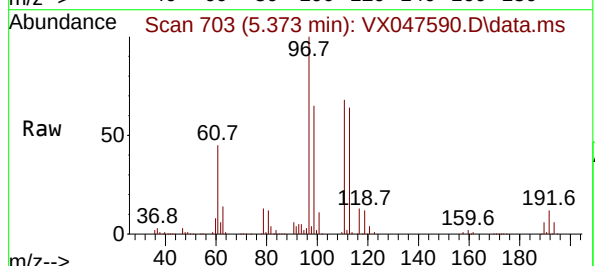
Tgt Ion: 97 Resp: 506654

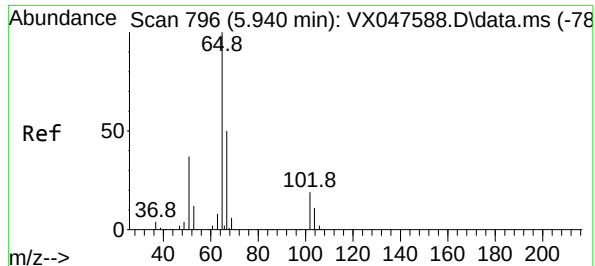
Ion Ratio Lower Upper

97 100

99 63.6 50.6 76.0

61 44.2 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 162.673 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 65 Resp: 39662

Ion Ratio Lower Upper

65 100

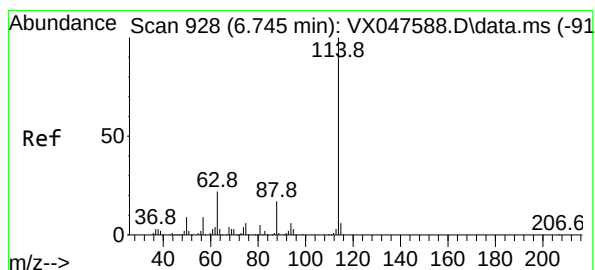
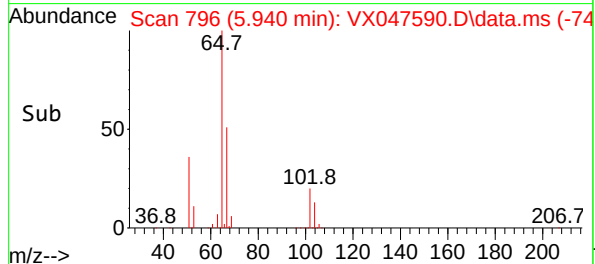
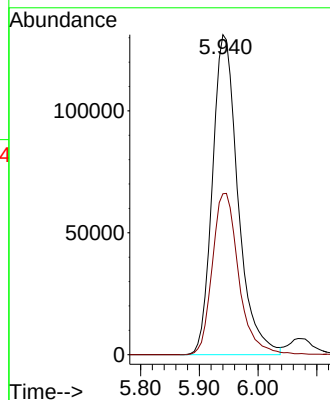
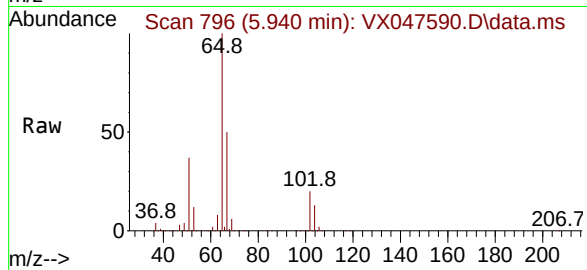
67 52.3 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

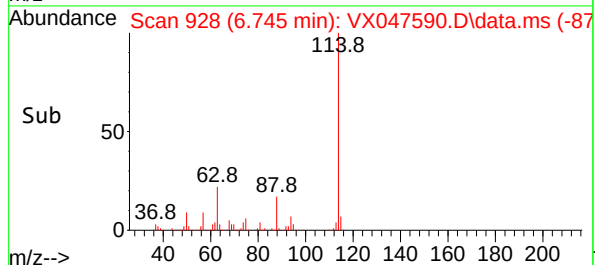
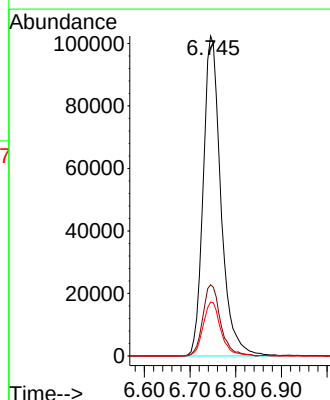
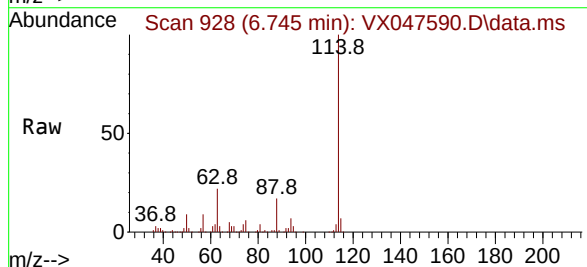
Tgt Ion:114 Resp: 274804

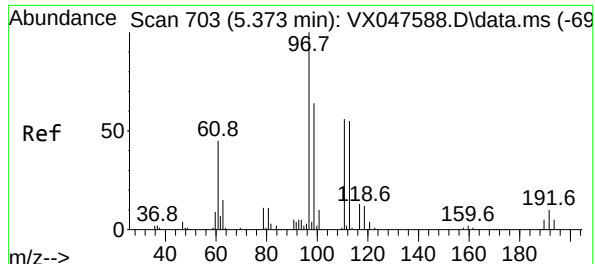
Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.0

88 16.8 0.0 34.2





#35

Dibromofluoromethane

Concen: 164.802 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:113 Resp: 303728

Ion Ratio Lower Upper

113 100

111 102.4 80.9 121.3

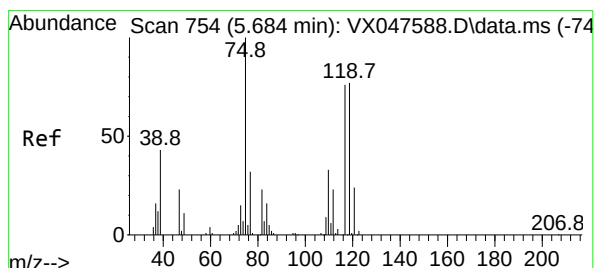
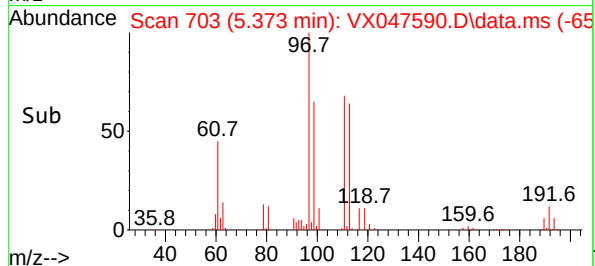
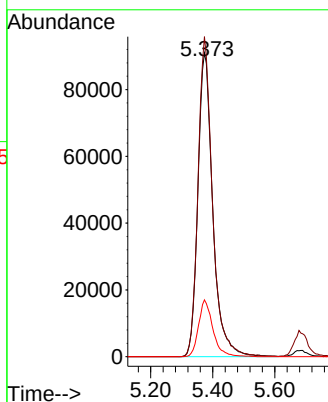
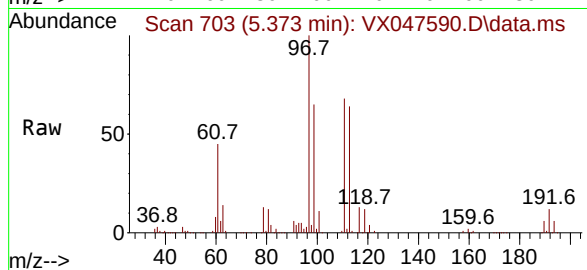
192 18.1 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#36

1,1-Dichloropropene

Concen: 143.556 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

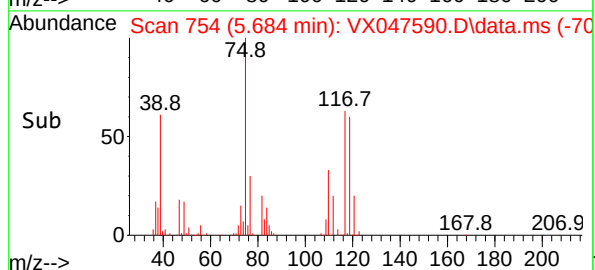
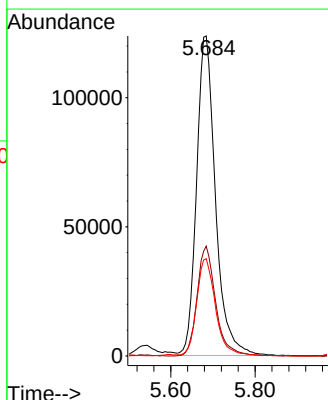
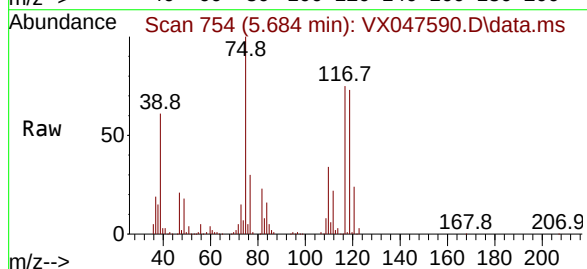
Tgt Ion: 75 Resp: 386601

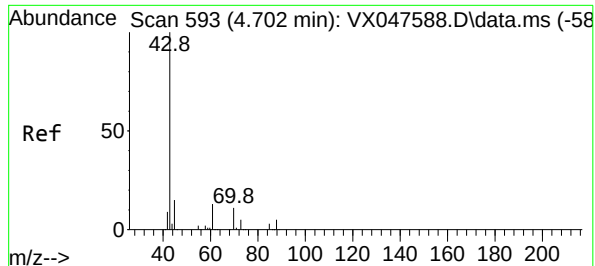
Ion Ratio Lower Upper

75 100

110 33.9 16.7 50.1

77 30.6 24.3 36.5





#37

Ethyl Acetate

Concen: 154.141 ug/l

RT: 4.702 min Scan# 593

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 44446

Ion Ratio Lower Upper

43 100

61 12.1 9.8 14.8

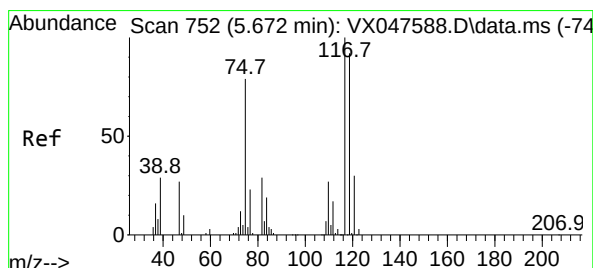
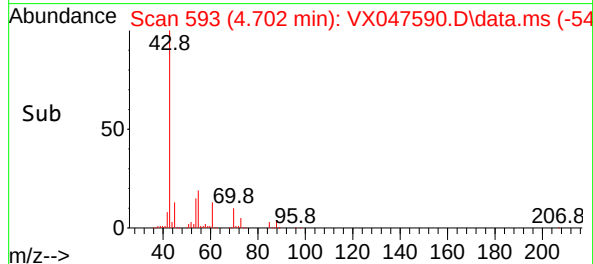
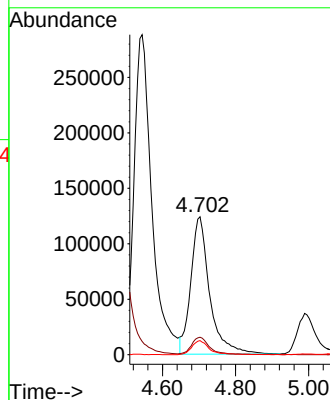
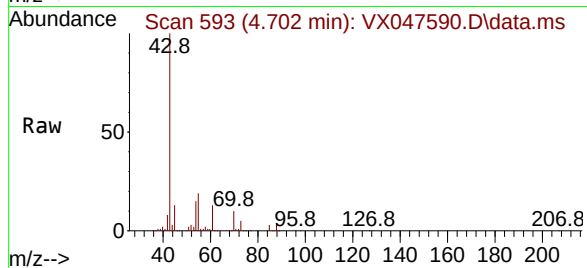
70 9.5 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#38

Carbon Tetrachloride

Concen: 146.021 ug/l

RT: 5.666 min Scan# 751

Delta R.T. -0.006 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

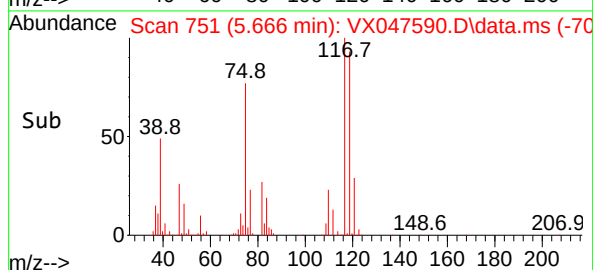
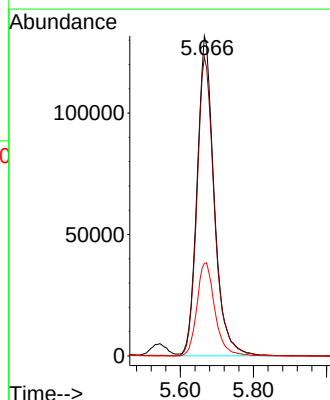
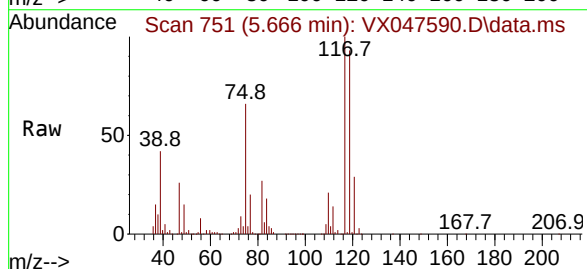
Tgt Ion:117 Resp: 427263

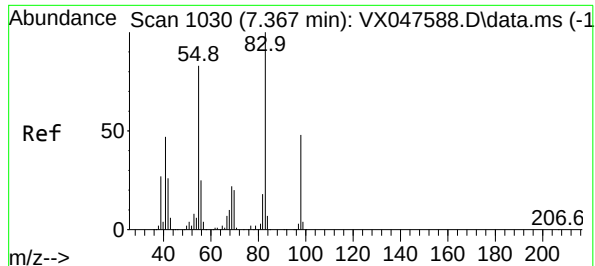
Ion Ratio Lower Upper

117 100

119 93.3 73.4 110.2

121 29.0 23.8 35.6





#39

Methylcyclohexane

Concen: 149.395 ug/l

RT: 7.367 min Scan# 1030

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

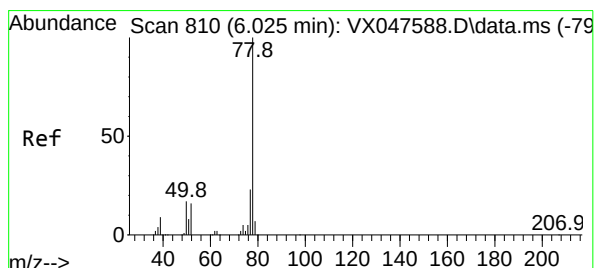
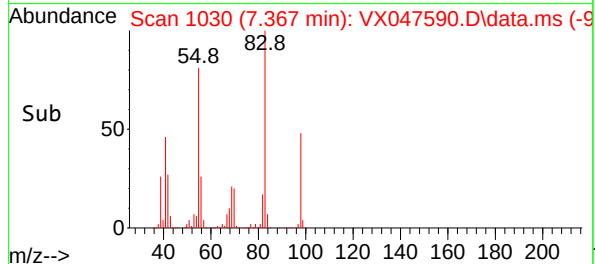
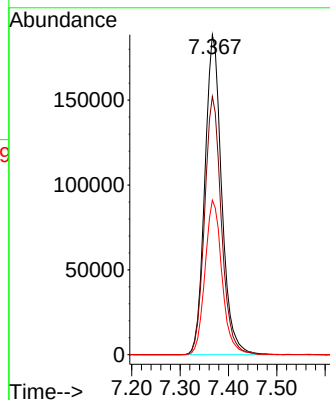
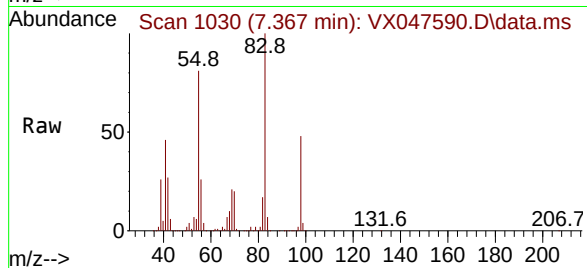
VSTDIC150

Tgt Ion:	83	Resp:	456694
Ion	Ratio	Lower	Upper
83	100		
55	80.7	66.4	99.6
98	48.3	38.1	57.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#40

Benzene

Concen: 147.057 ug/l

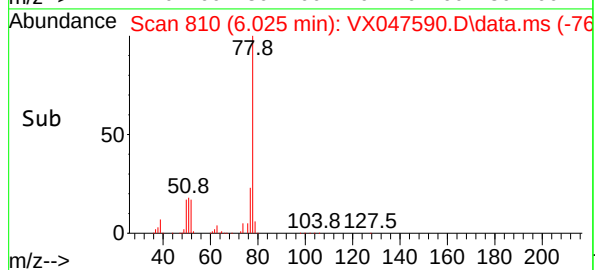
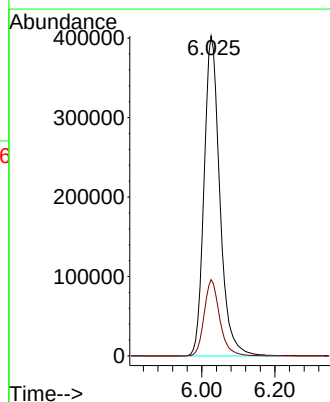
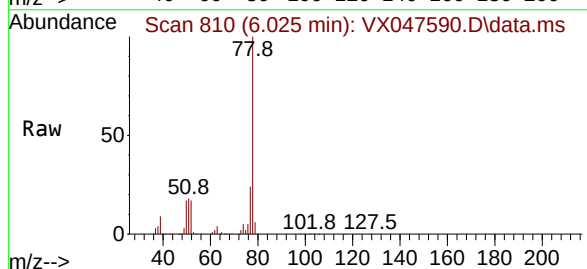
RT: 6.025 min Scan# 810

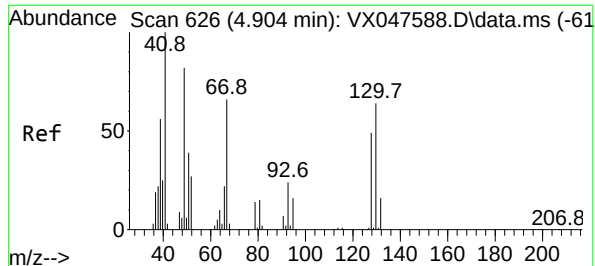
Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

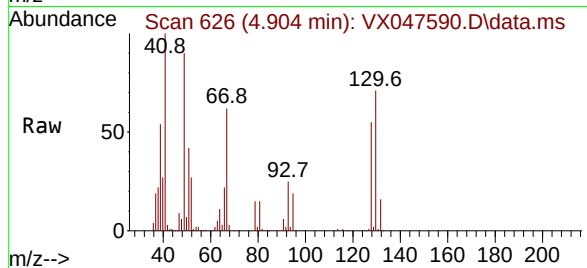
Tgt Ion:	78	Resp:	1202846
Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.8	28.2





#41
Methacrylonitrile
Concen: 149.951 ug/l
RT: 4.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

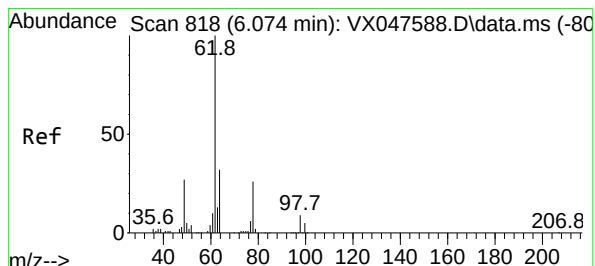
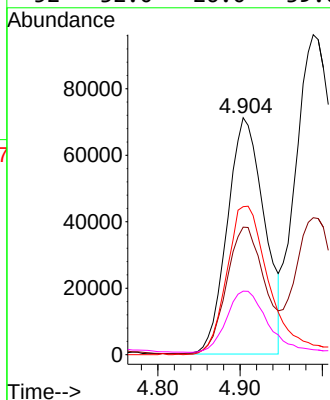
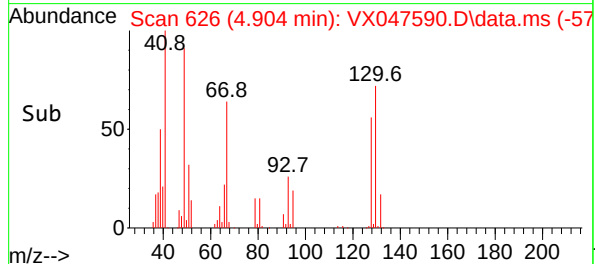
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



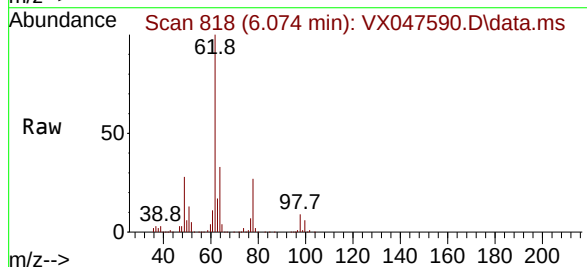
Tgt Ion: 41 Resp: 223218
Ion Ratio Lower Upper
41 100
39 54.5 43.3 64.9
67 74.6 58.6 87.8
52 32.0 26.0 39.0

Manual Integrations
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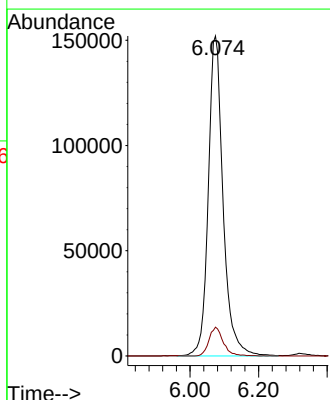
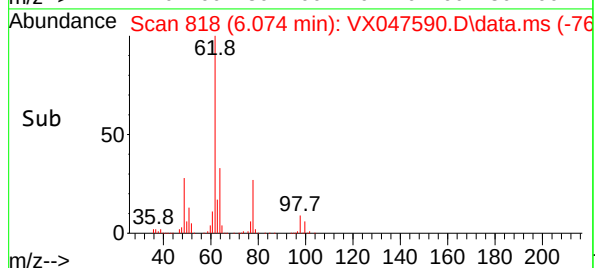
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

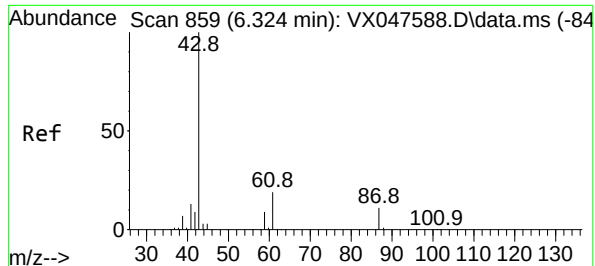


#42
1,2-Dichloroethane
Concen: 146.515 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01



Tgt Ion: 62 Resp: 455978
Ion Ratio Lower Upper
62 100
98 8.7 0.0 17.0





#43

Isopropyl Acetate

Concen: 153.283 ug/l

RT: 6.324 min Scan# 859

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 72488

Ion Ratio Lower Upper

43 100

61 19.4 15.2 22.8

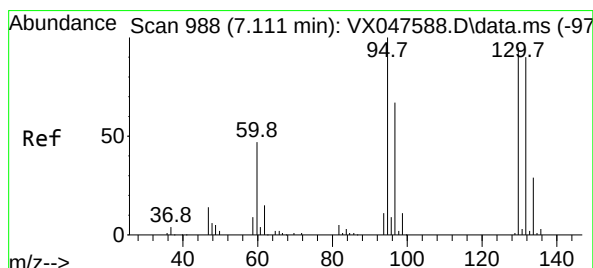
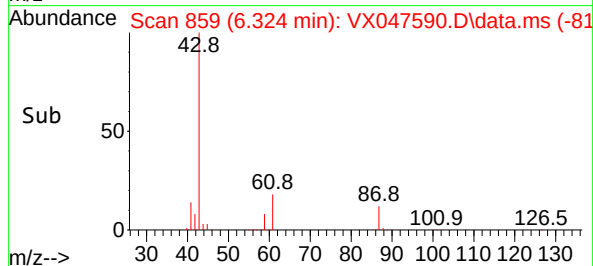
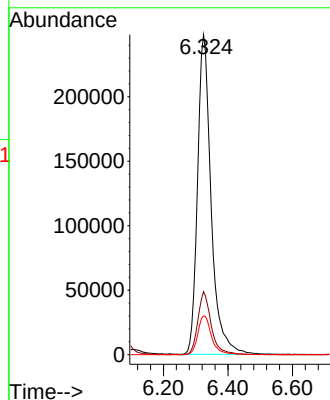
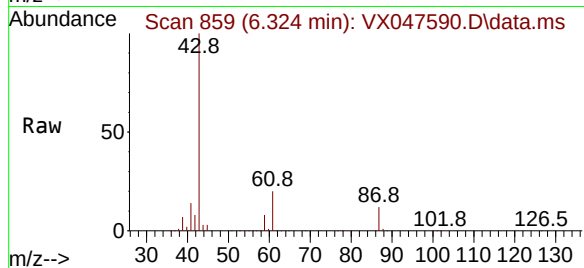
87 12.3 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#44

Trichloroethene

Concen: 151.542 ug/l

RT: 7.111 min Scan# 988

Delta R.T. -0.000 min

Lab File: VX047590.D

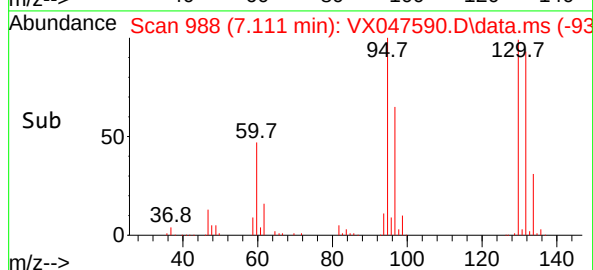
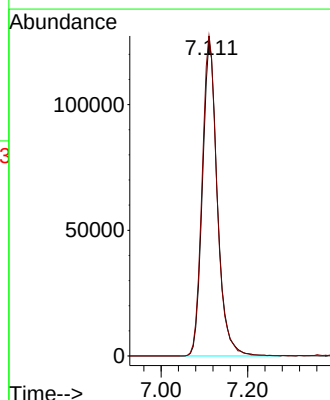
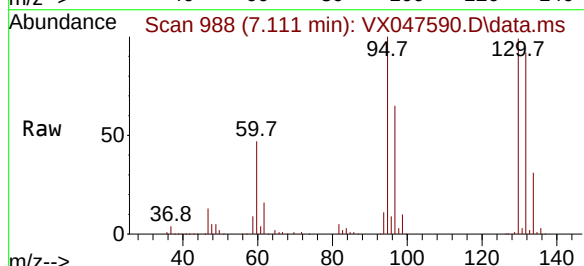
Acq: 16 Sep 2025 12:01

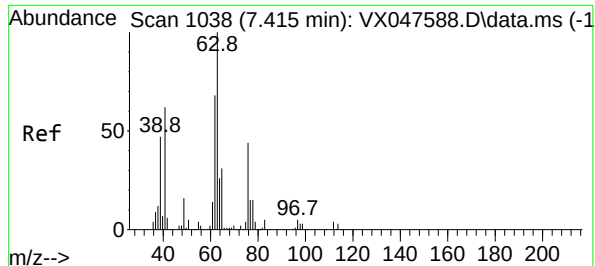
Tgt Ion:130 Resp: 299673

Ion Ratio Lower Upper

130 100

95 101.1 0.0 210.8





#45

1,2-Dichloropropane

Concen: 151.219 ug/l

RT: 7.415 min Scan# 1038

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 63 Resp: 316720

Ion Ratio Lower Upper

63 100

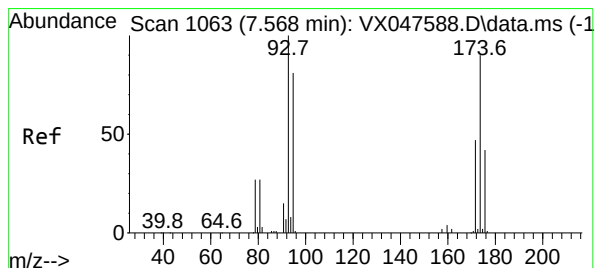
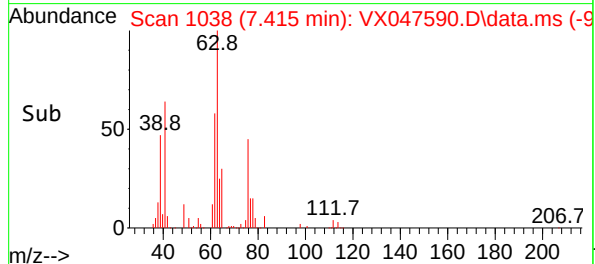
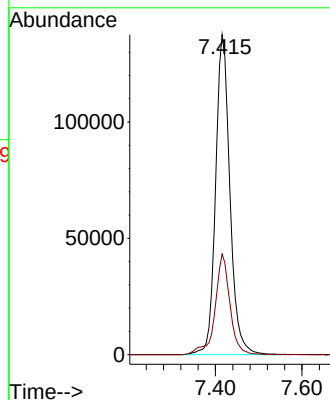
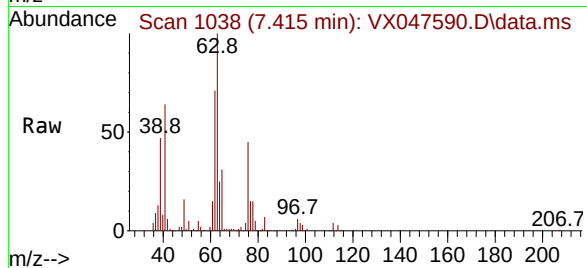
65 31.5 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#46

Dibromomethane

Concen: 149.954 ug/l

RT: 7.568 min Scan# 1063

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

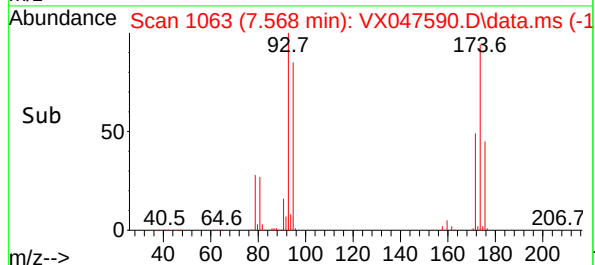
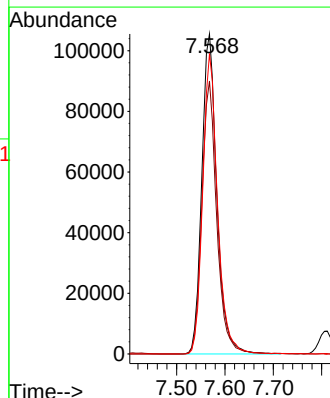
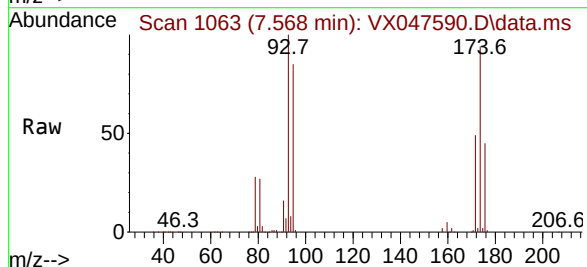
Tgt Ion: 93 Resp: 228550

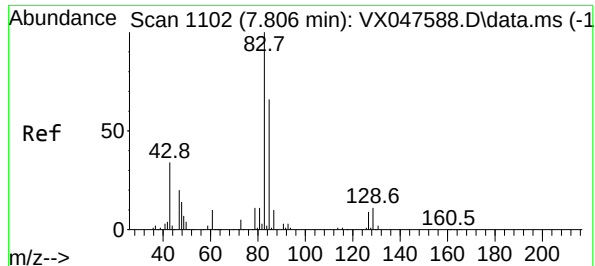
Ion Ratio Lower Upper

93 100

95 84.2 65.0 97.6

174 92.5 71.6 107.4





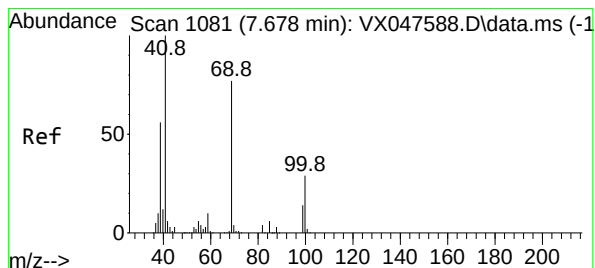
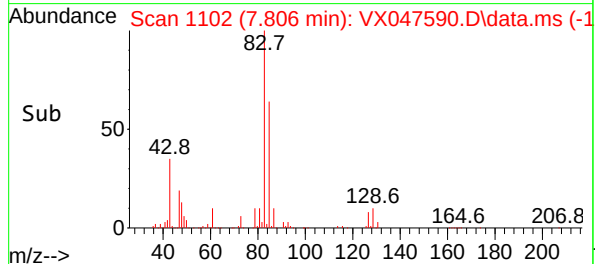
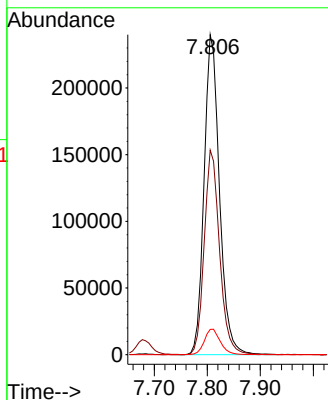
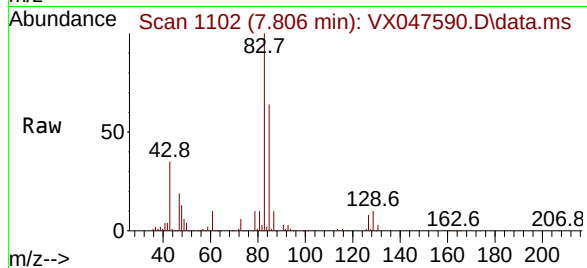
#47
Bromodichloromethane
Concen: 153.710 ug/l
RT: 7.806 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 483438
Ion Ratio Lower Upper
83 100
85 63.9 52.5 78.7
127 7.9 6.9 10.3

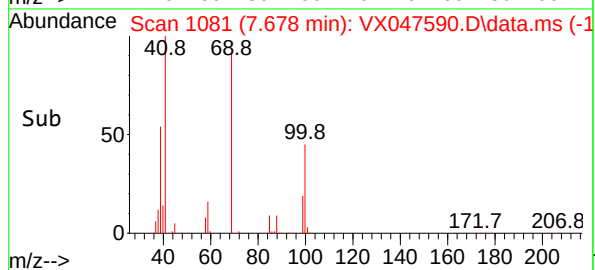
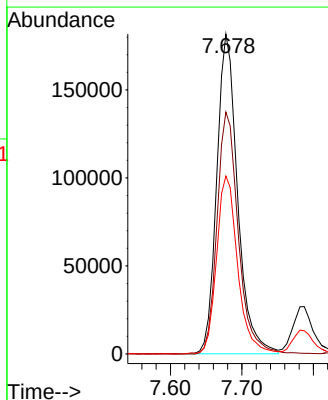
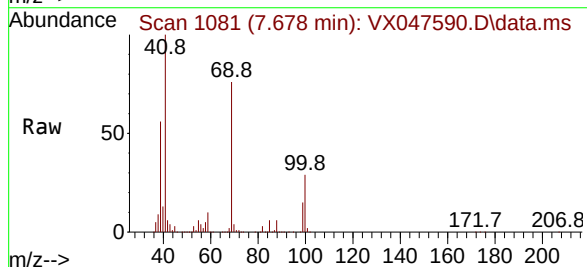
Manual Integrations
APPROVED

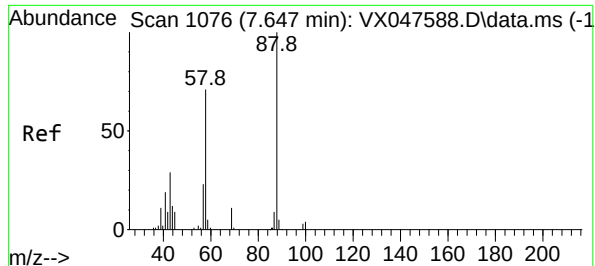
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#48
Methyl methacrylate
Concen: 156.194 ug/l
RT: 7.678 min Scan# 1081
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 41 Resp: 367931
Ion Ratio Lower Upper
41 100
69 77.2 61.4 92.2
39 56.5 45.8 68.6





#49

1,4-Dioxane

Concen: 3475.565 ug/l

RT: 7.647 min Scan# 1076

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

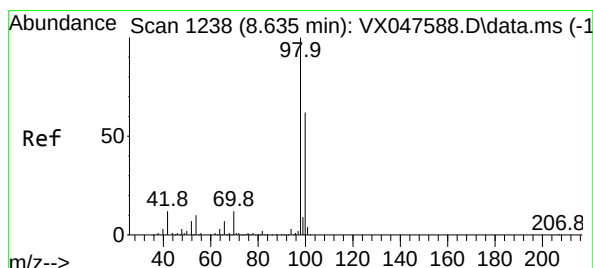
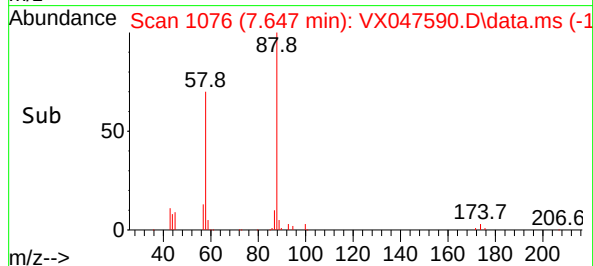
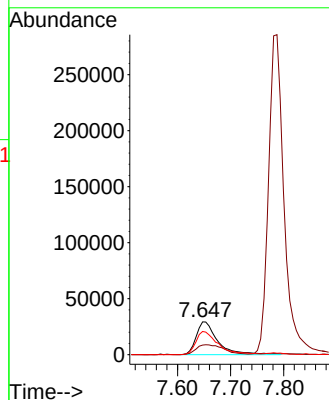
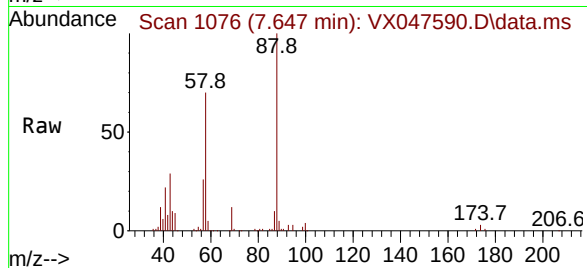
VSTDICC150

Tgt Ion:	88	Resp:	82739
Ion	Ratio	Lower	Upper
88	100		
43	38.5	30.2	45.2
58	73.0	59.5	89.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#50

Toluene-d8

Concen: 163.253 ug/l

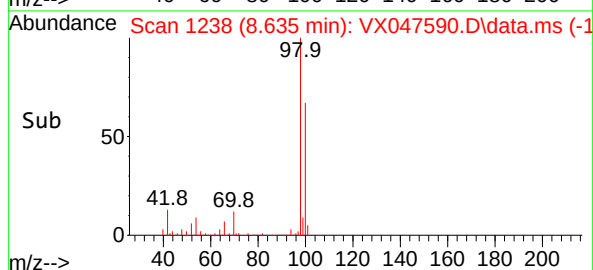
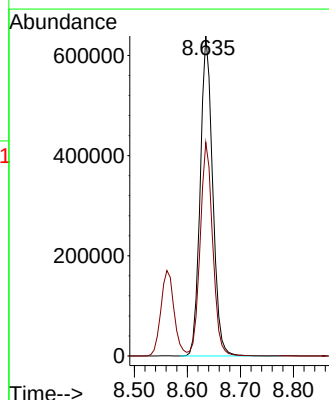
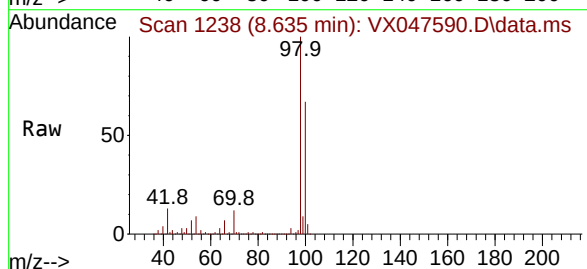
RT: 8.635 min Scan# 1238

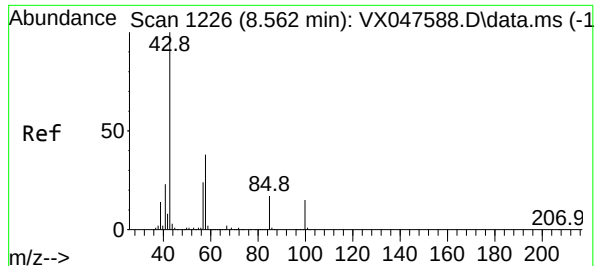
Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

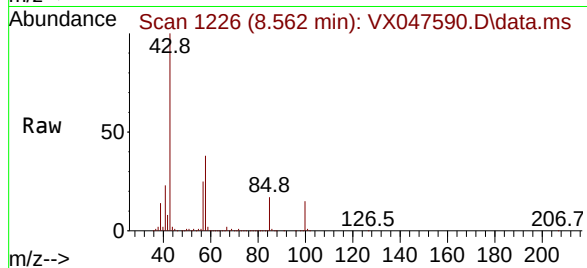
Tgt Ion:	98	Resp:	1041079
Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 765.849 ug/l
RT: 8.562 min Scan# 1226
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

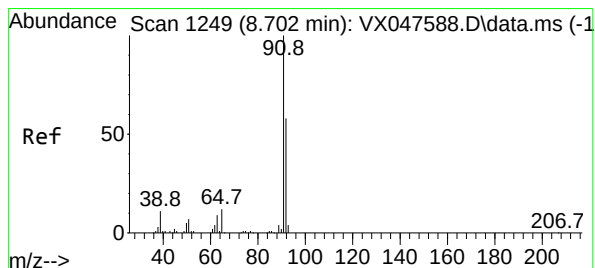
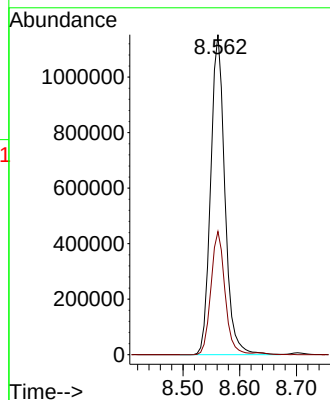
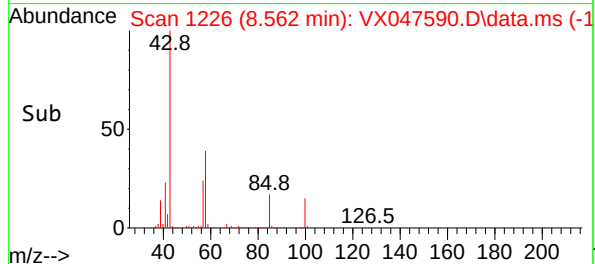
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 43 Resp: 200806
Ion Ratio Lower Upper
43 100
58 38.0 30.3 45.5

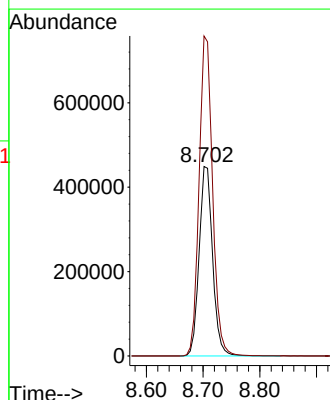
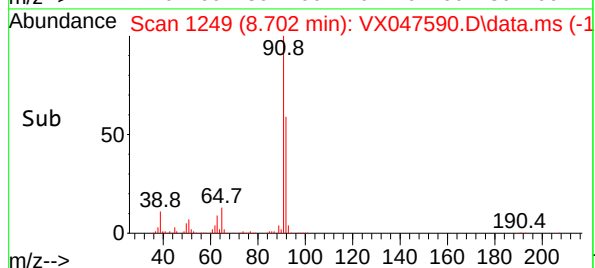
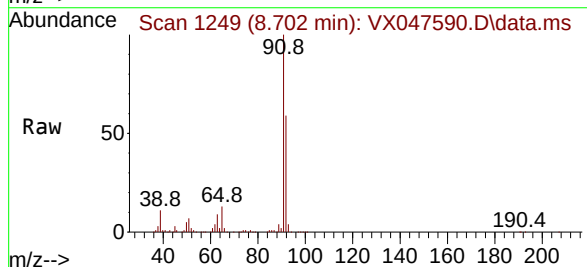
Manual Integrations
APPROVED

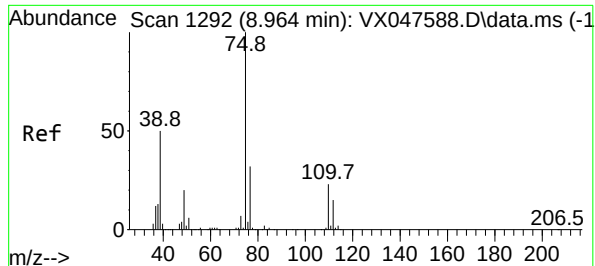
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#52
Toluene
Concen: 146.712 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 92 Resp: 739332
Ion Ratio Lower Upper
92 100
91 169.5 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 157.076 ug/l

RT: 8.964 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 75 Resp: 50391

Ion Ratio Lower Upper

75 100

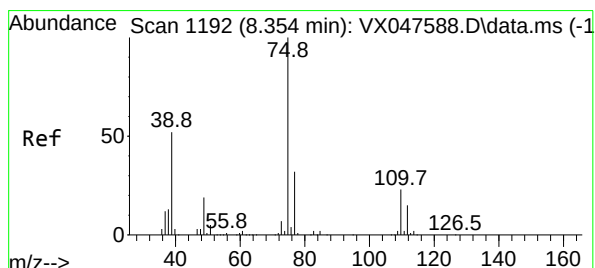
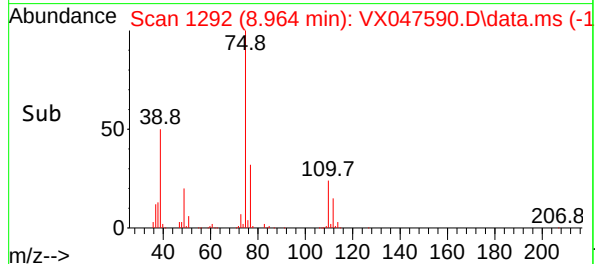
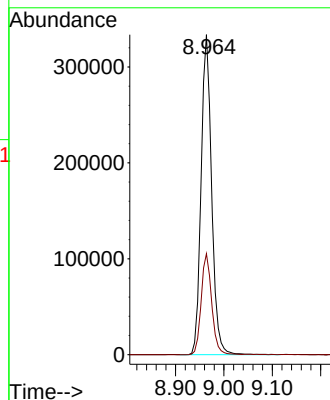
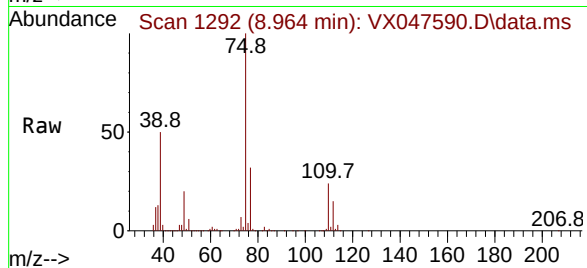
77 31.6 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#54

cis-1,3-Dichloropropene

Concen: 154.732 ug/l

RT: 8.354 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

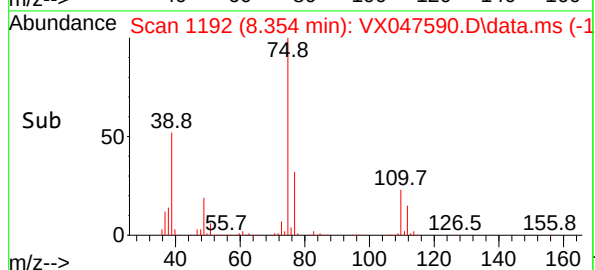
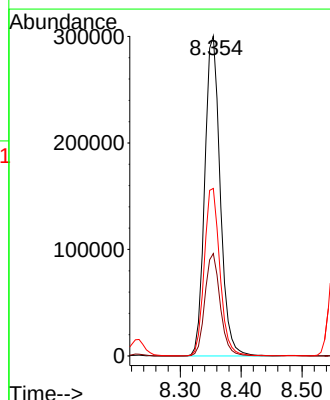
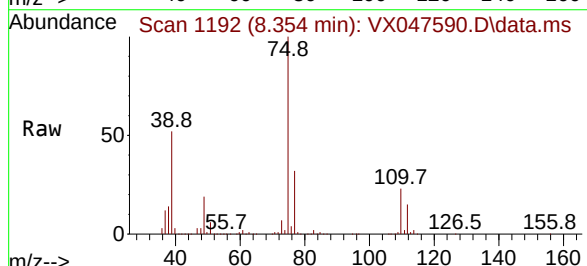
Tgt Ion: 75 Resp: 530566

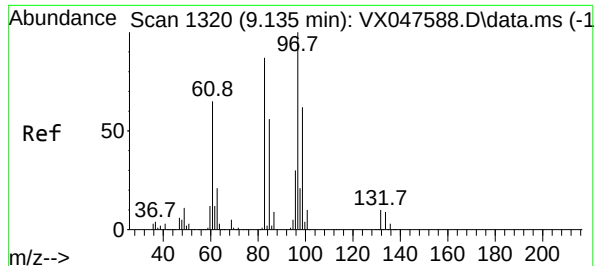
Ion Ratio Lower Upper

75 100

77 32.0 25.8 38.6

39 52.3 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 148.781 ug/l

RT: 9.135 min Scan# 1320

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 97 Resp: 28910

Ion Ratio Lower Upper

97 100

83 86.1 69.6 104.4

85 56.8 45.0 67.6

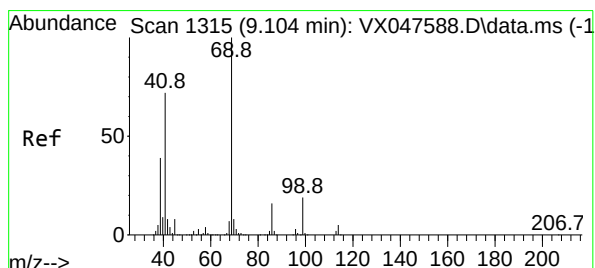
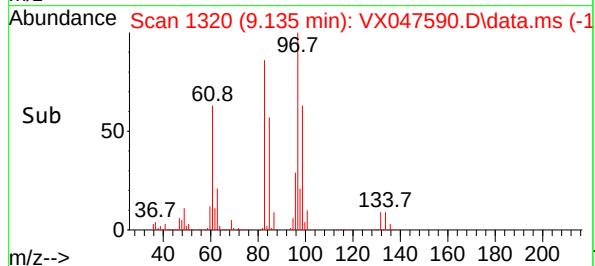
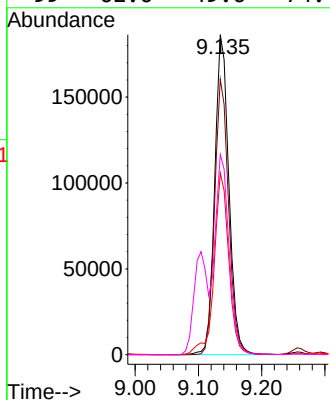
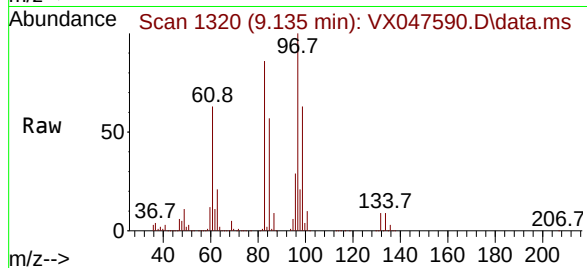
99 62.6 49.6 74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#56

Ethyl methacrylate

Concen: 160.773 ug/l

RT: 9.104 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

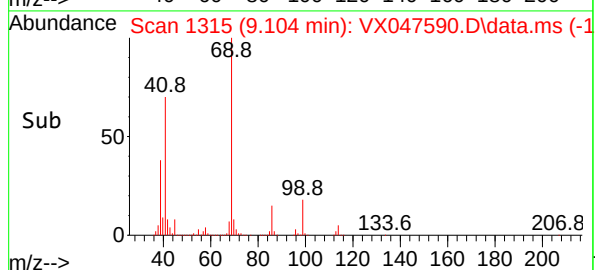
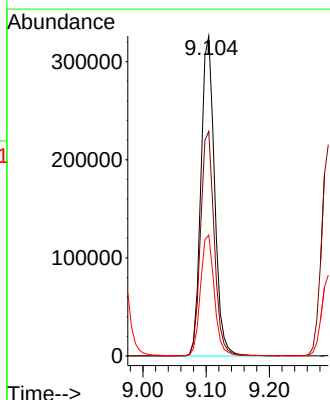
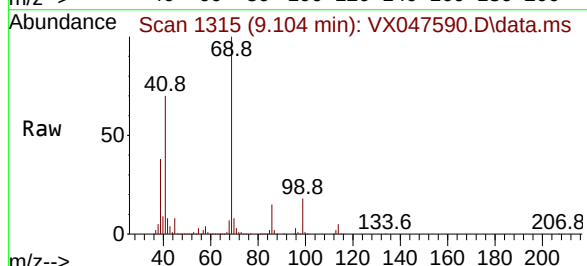
Tgt Ion: 69 Resp: 490623

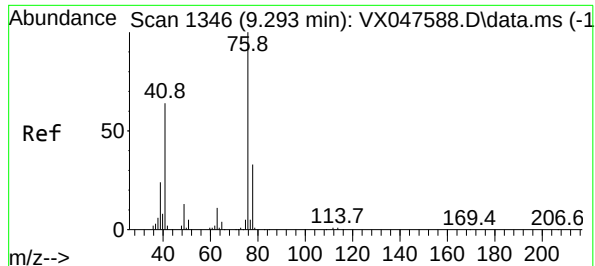
Ion Ratio Lower Upper

69 100

41 70.5 58.6 87.8

39 38.2 31.5 47.3





#57

1,3-Dichloropropane

Concen: 150.426 ug/l

RT: 9.293 min Scan# 1171

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 50212

Ion Ratio Lower Upper

76 100

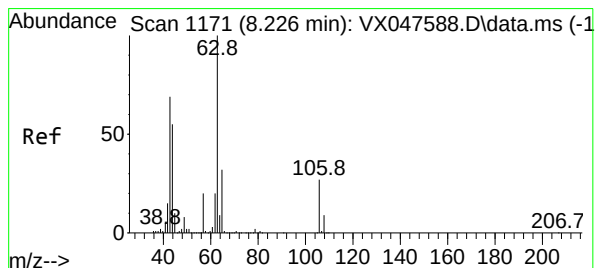
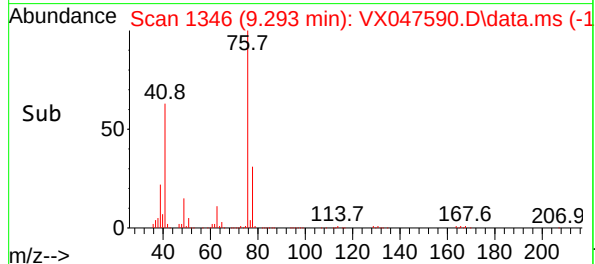
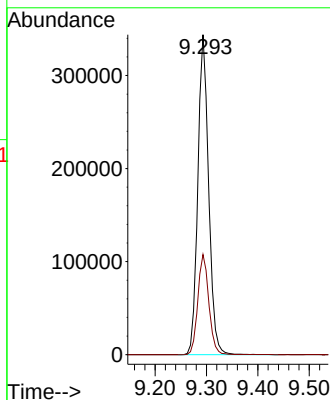
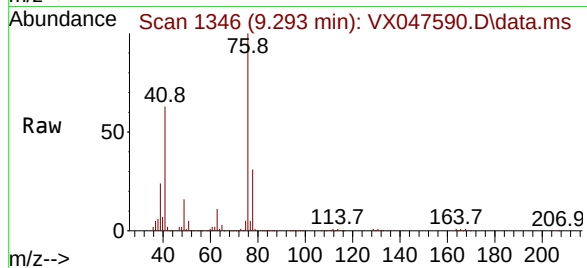
78 31.9 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#58

2-Chloroethyl Vinyl ether

Concen: 749.661 ug/l

RT: 8.232 min Scan# 1172

Delta R.T. 0.006 min

Lab File: VX047590.D

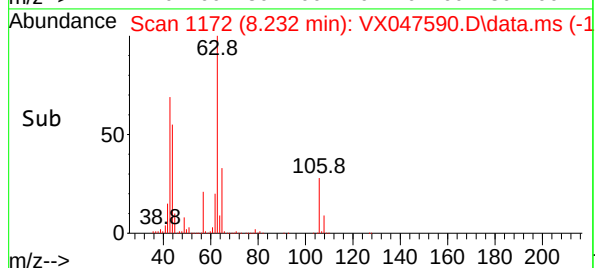
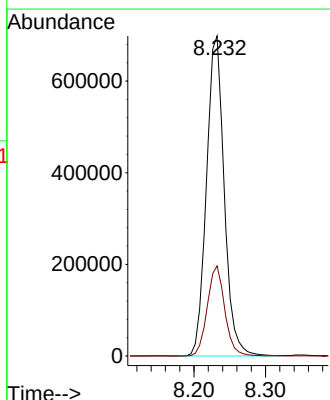
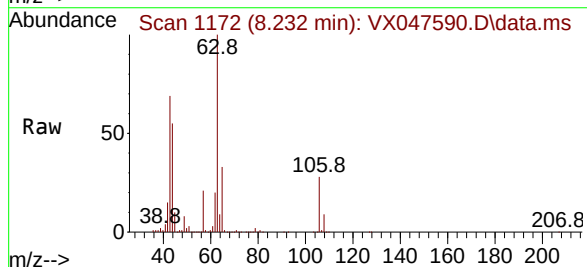
Acq: 16 Sep 2025 12:01

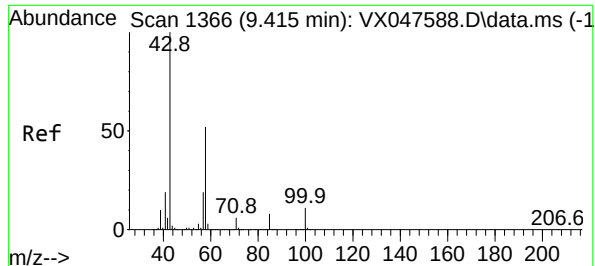
Tgt Ion: 63 Resp: 1202206

Ion Ratio Lower Upper

63 100

106 27.7 21.9 32.9





#59

2-Hexanone

Concen: 750.035 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 141241

Ion Ratio Lower Upper

43 100

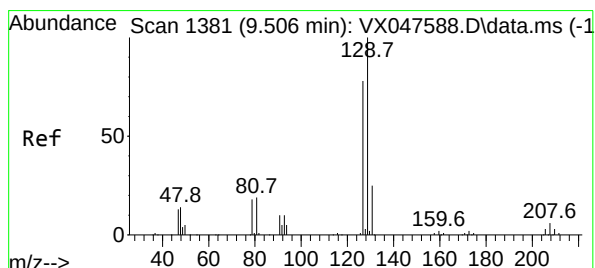
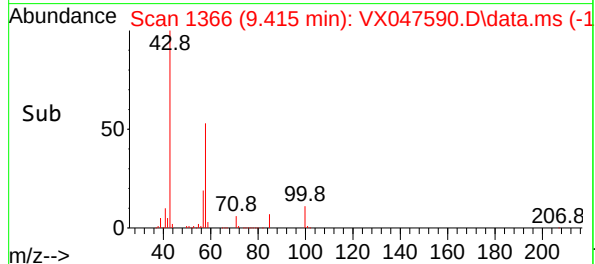
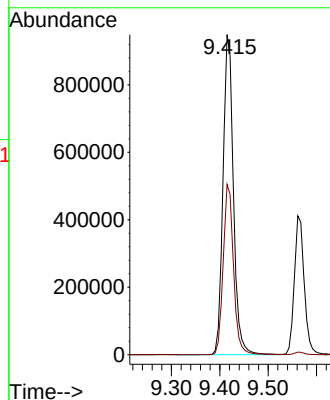
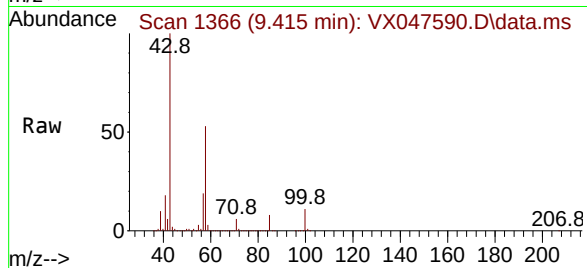
58 52.9 26.1 78.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#60

Dibromochloromethane

Concen: 155.318 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VX047590.D

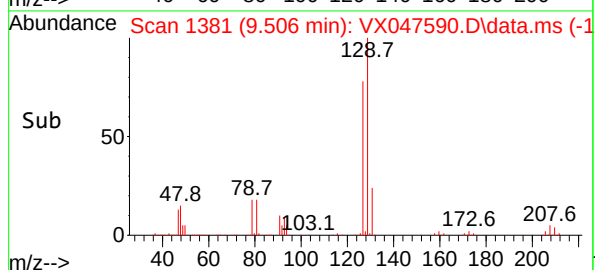
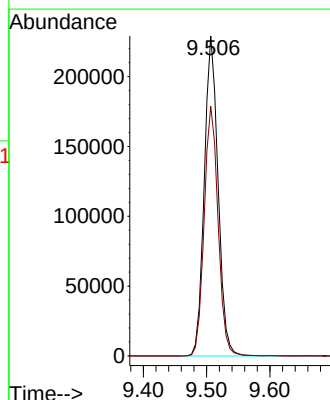
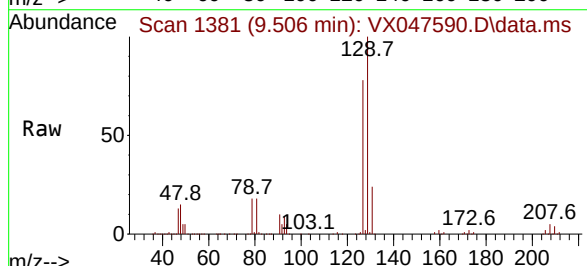
Acq: 16 Sep 2025 12:01

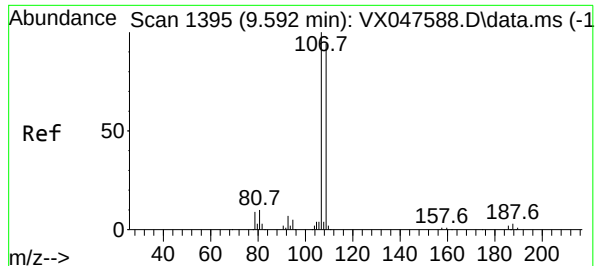
Tgt Ion:129 Resp: 347748

Ion Ratio Lower Upper

129 100

127 78.7 38.4 115.2





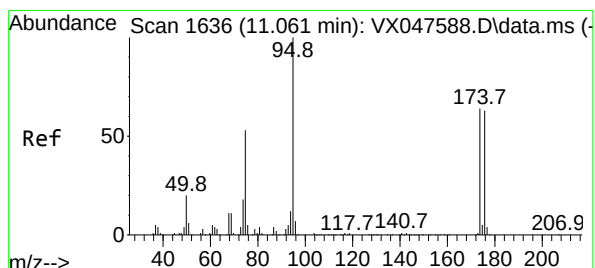
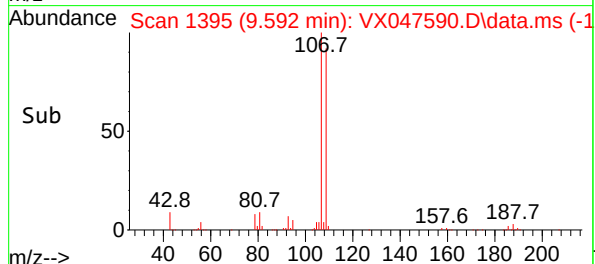
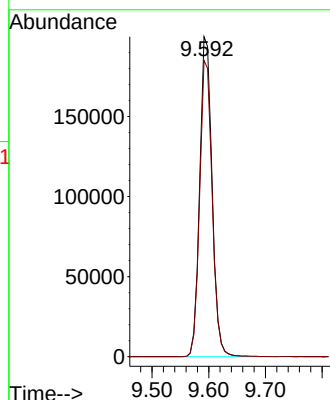
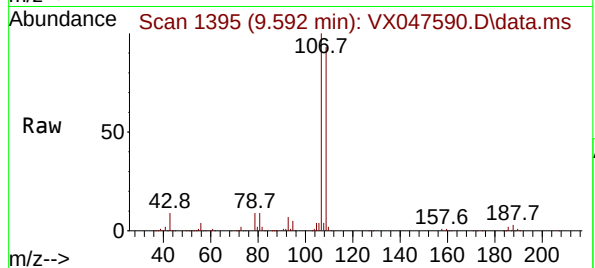
#61
1,2-Dibromoethane
Concen: 152.949 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 107 Resp: 302715
Ion Ratio Lower Upper
107 100
109 93.5 75.3 112.9

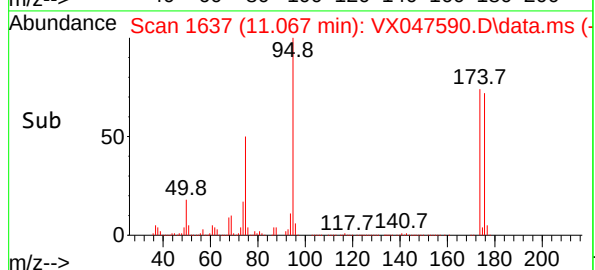
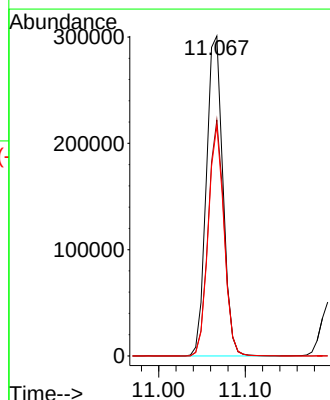
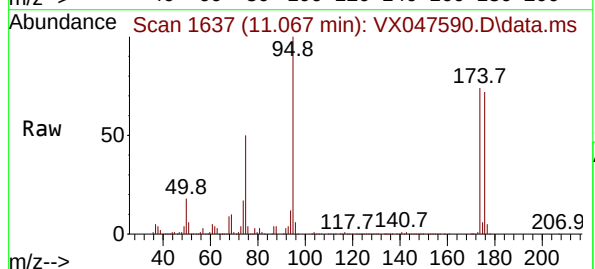
Manual Integrations
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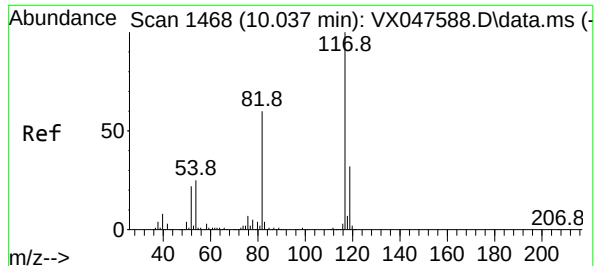
Reviewed By : John Carlone 09/17/2025
Supervised By : Mahesh Dadoda 09/18/2025



#62
4-Bromofluorobenzene
Concen: 165.020 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

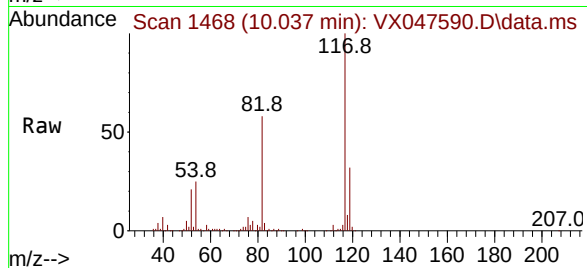
Tgt Ion: 95 Resp: 399386
Ion Ratio Lower Upper
95 100
174 70.7 0.0 141.6
176 68.5 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

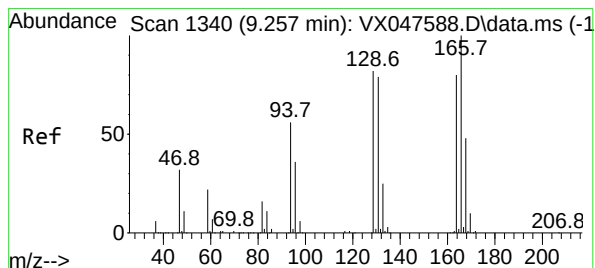
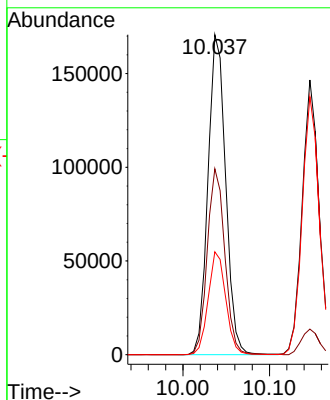
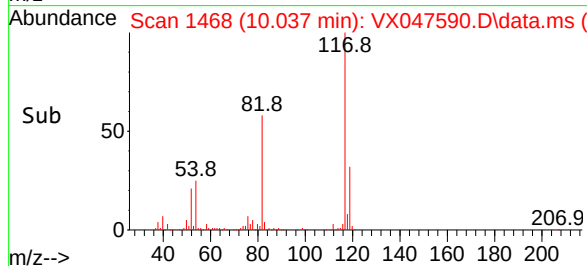
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



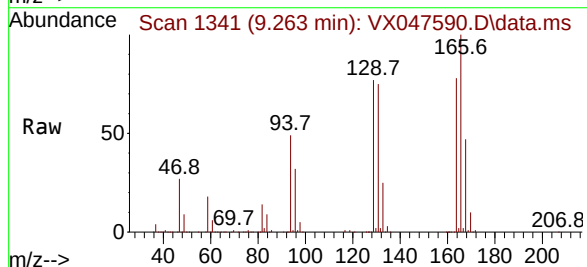
Tgt Ion:117 Resp: 241818
Ion Ratio Lower Upper
117 100
82 58.1 47.8 71.6
119 32.2 25.2 37.8

Manual Integrations
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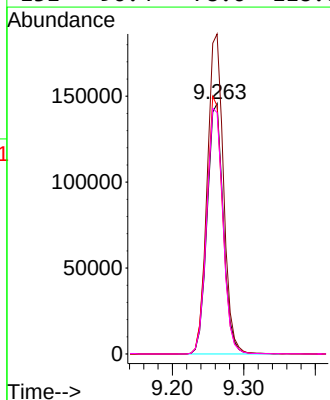
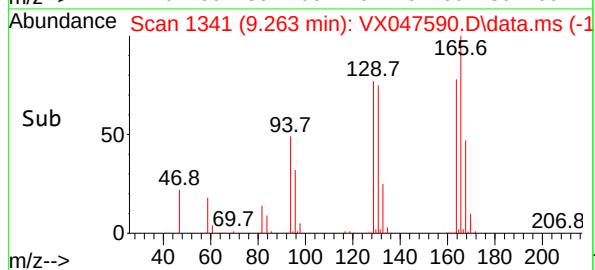
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

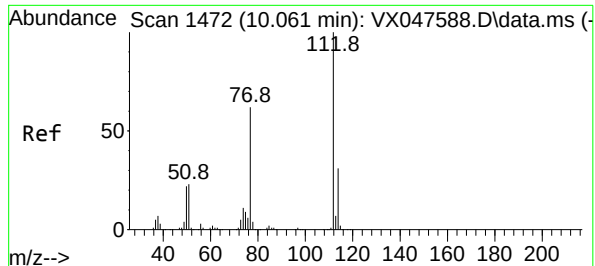


#64
Tetrachloroethene
Concen: 144.590 ug/l
RT: 9.263 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01



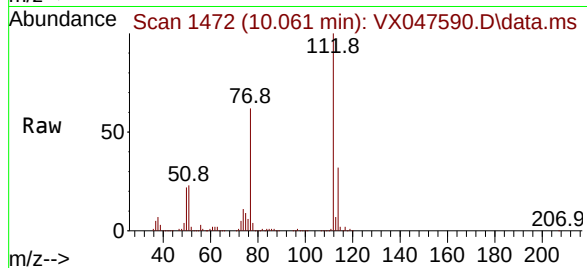
Tgt Ion:164 Resp: 227931
Ion Ratio Lower Upper
164 100
166 127.8 100.2 150.2
129 99.0 81.8 122.6
131 96.4 78.6 118.0





#65
Chlorobenzene
Concen: 150.763 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

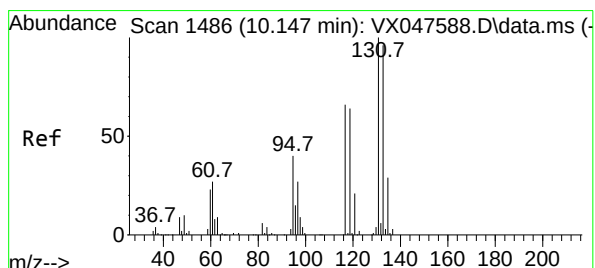
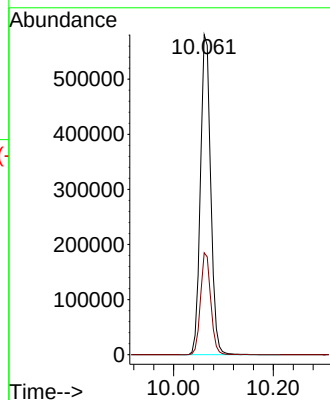
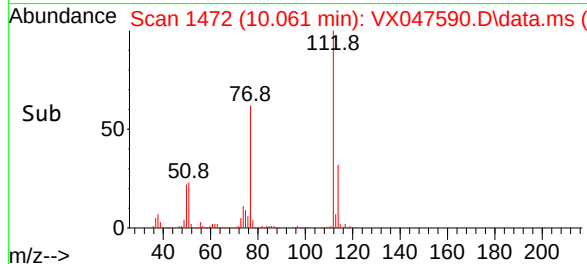
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:112 Resp: 828239
Ion Ratio Lower Upper
112 100
114 31.8 25.1 37.7

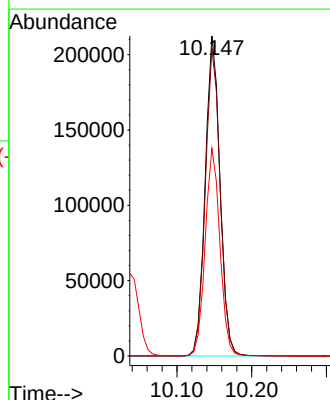
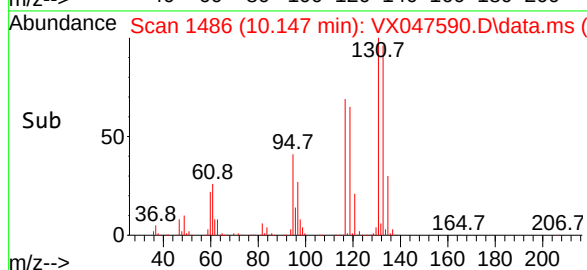
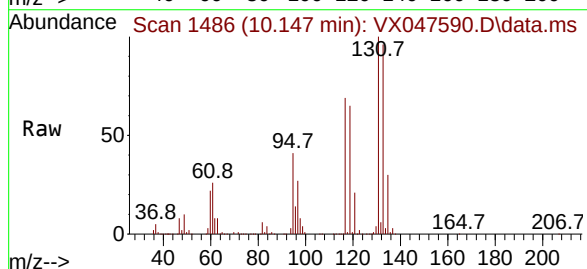
Manual Integrations
APPROVED

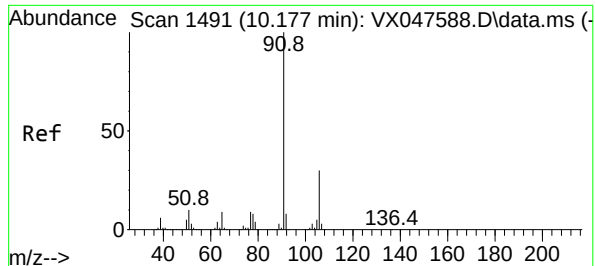
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 153.733 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion:131 Resp: 291433
Ion Ratio Lower Upper
131 100
133 96.7 47.3 142.0
119 64.8 32.0 96.0





#67

Ethyl Benzene

Concen: 151.026 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 1431554

Ion Ratio Lower Upper

91 100

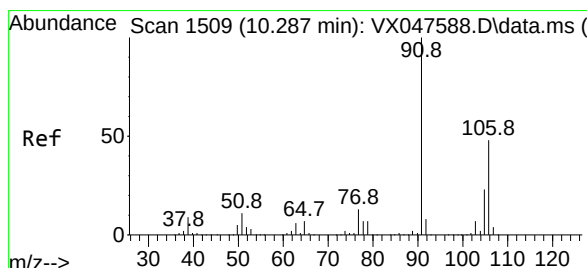
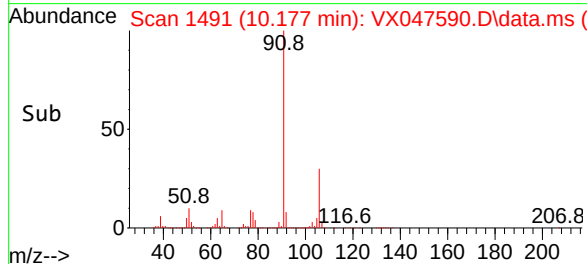
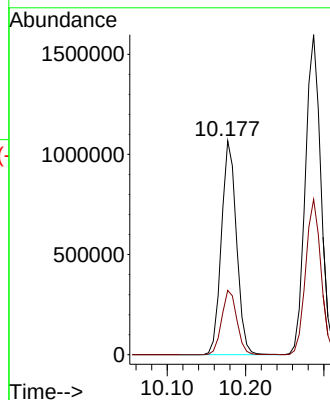
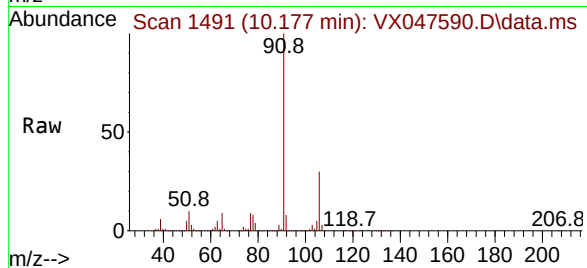
106 30.0 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#68

m/p-Xylenes

Concen: 300.381 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX047590.D

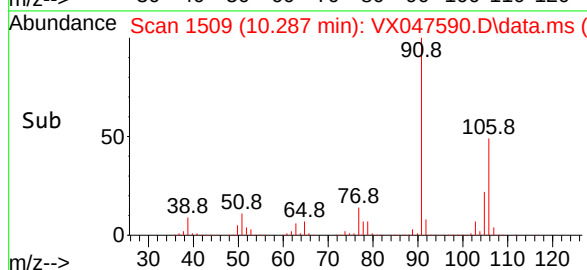
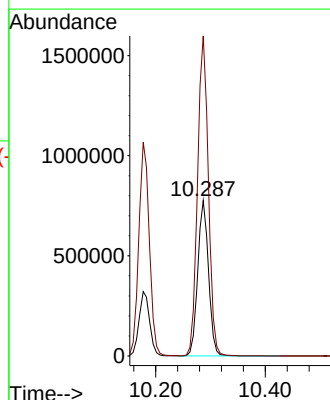
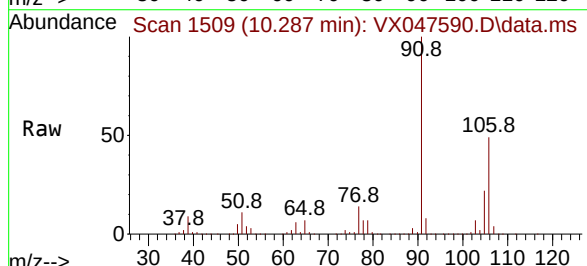
Acq: 16 Sep 2025 12:01

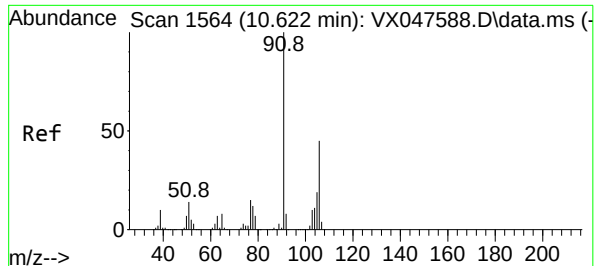
Tgt Ion:106 Resp: 1059776

Ion Ratio Lower Upper

106 100

91 208.0 167.8 251.8





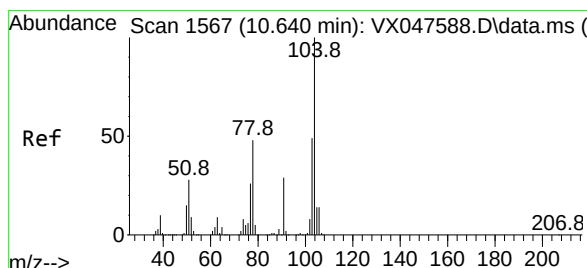
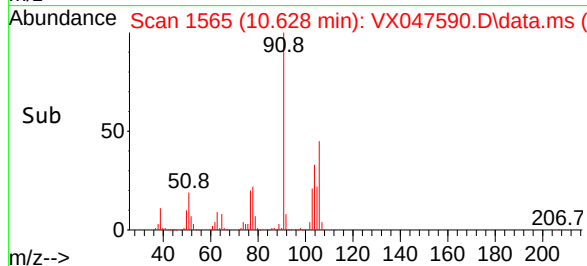
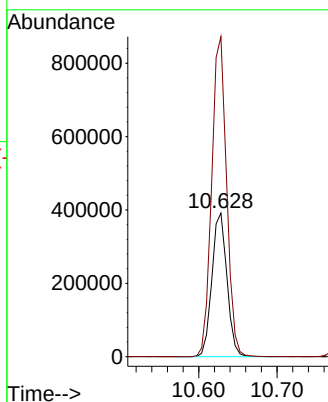
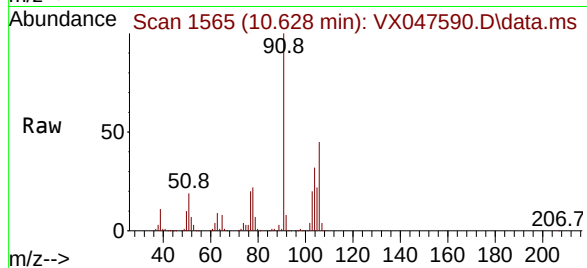
#69
o-Xylene
Concen: 152.920 ug/l
RT: 10.628 min Scan# 1564
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 521840
Ion Ratio Lower Upper
106 100
91 220.7 111.1 333.4

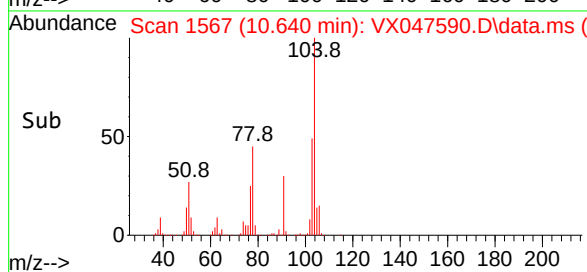
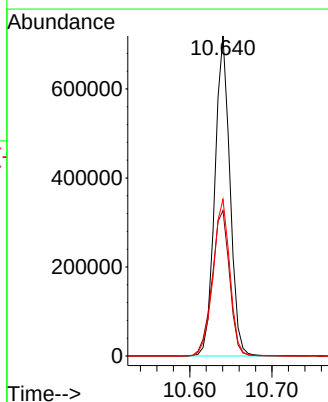
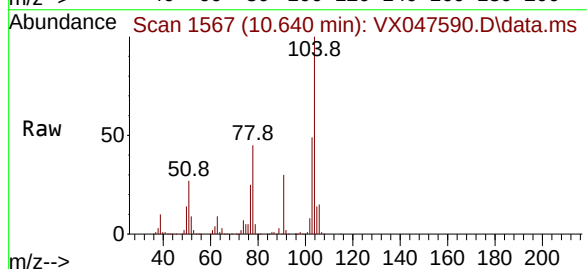
Manual Integrations
APPROVED

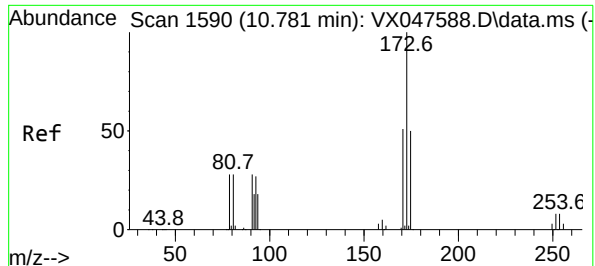
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#70
Styrene
Concen: 153.449 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

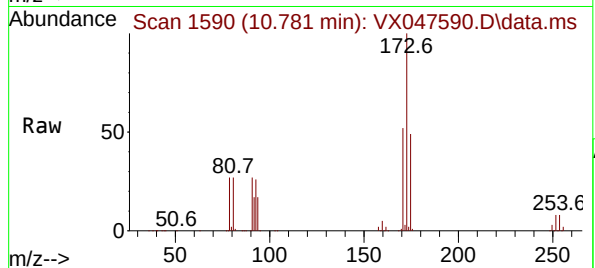
Tgt Ion:104 Resp: 917532
Ion Ratio Lower Upper
104 100
78 52.4 43.1 64.7
103 54.0 43.1 64.7





#71
Bromoform
Concen: 162.262 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

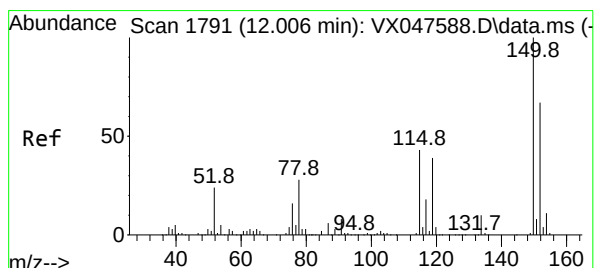
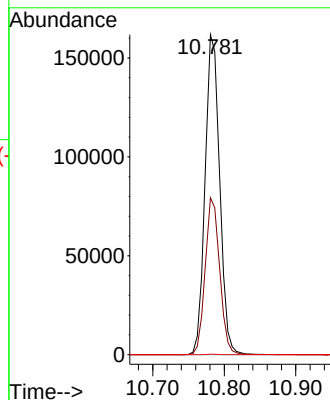
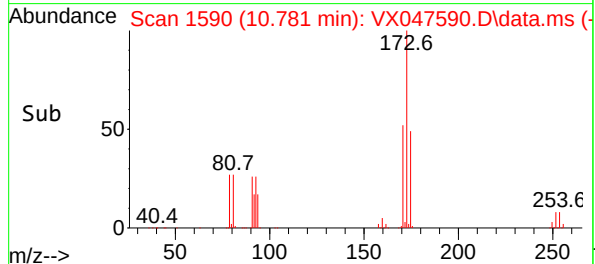
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



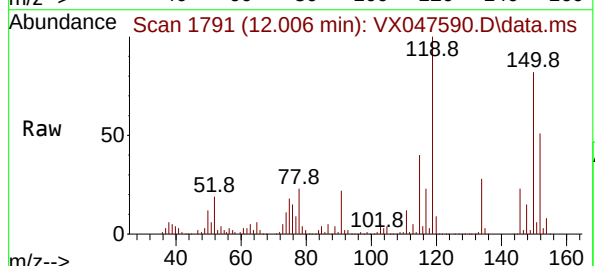
Tgt Ion:173 Resp: 22968
Ion Ratio Lower Upper
173 100
175 48.7 24.9 74.6
254 0.1 0.1 0.1

Manual Integrations
APPROVED

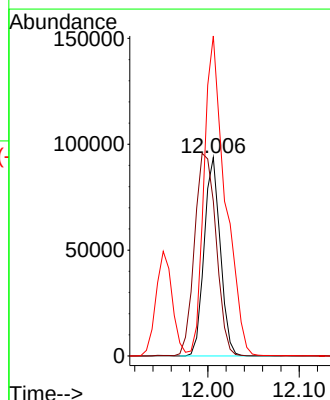
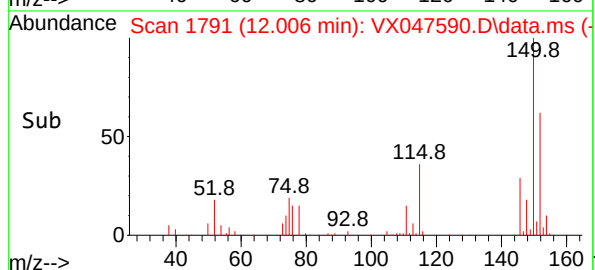
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

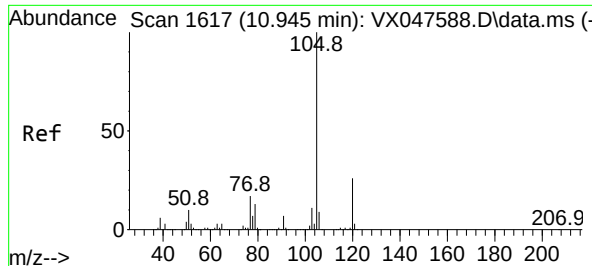


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01



Tgt Ion:152 Resp: 114743
Ion Ratio Lower Upper
152 100
115 136.9 44.9 134.5#
150 212.9 0.0 352.0





#73

Isopropylbenzene

Concen: 151.477 ug/l

RT: 10.945 min Scan# 1617

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:105 Resp: 1321409

Ion Ratio Lower Upper

105 100

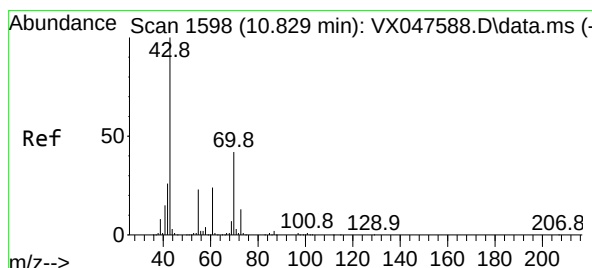
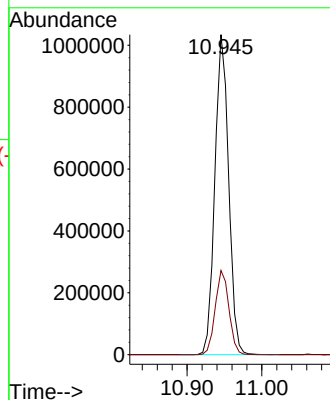
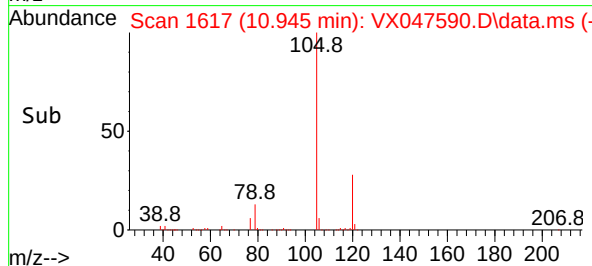
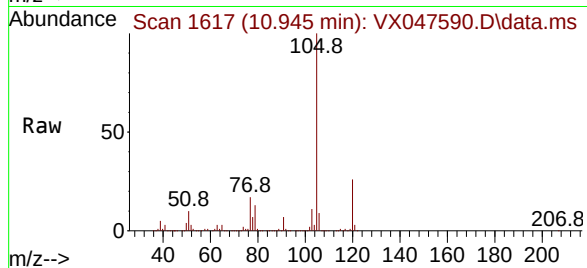
120 26.2 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#74

N-ethyl acetate

Concen: 160.099 ug/l

RT: 10.829 min Scan# 1598

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Tgt Ion: 43 Resp: 636879

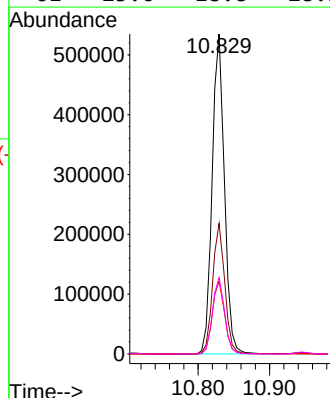
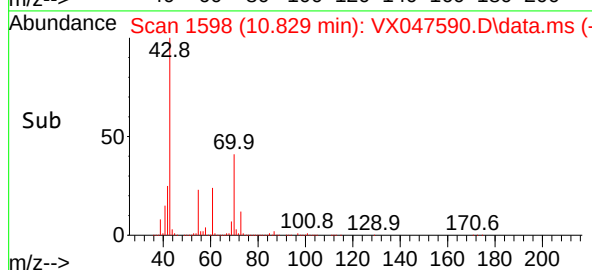
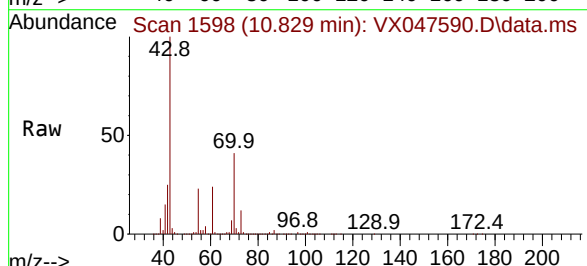
Ion Ratio Lower Upper

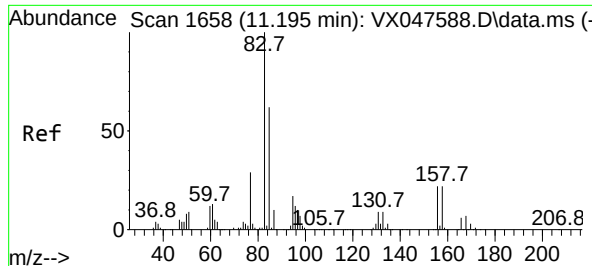
43 100

70 40.4 32.0 48.0

55 22.9 18.9 28.3

61 23.6 18.8 28.2





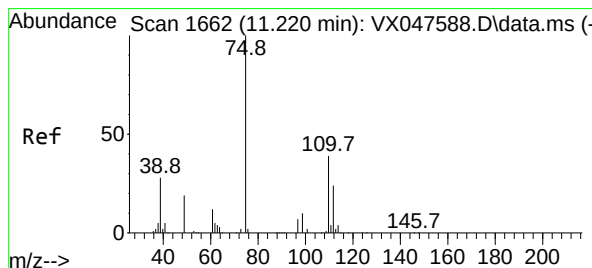
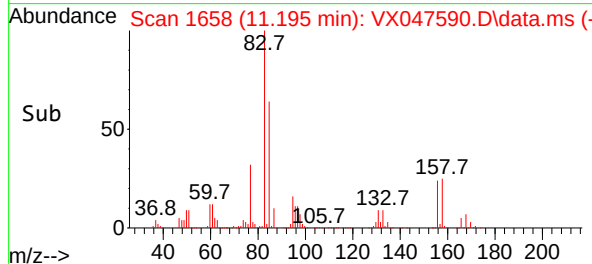
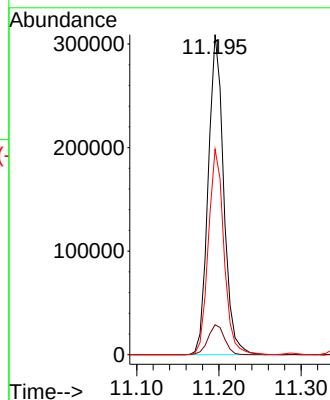
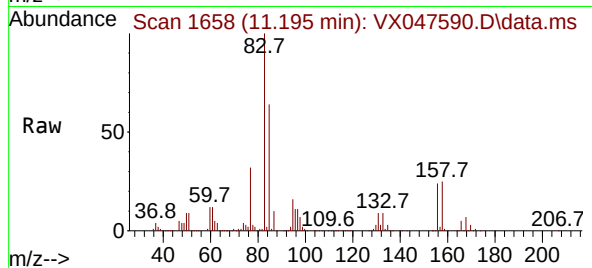
#75
1,1,2,2-Tetrachloroethane
Concen: 153.035 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 83 Resp: 403900
Ion Ratio Lower Upper
83 100
131 10.0 5.0 14.9
85 64.6 31.6 95.0

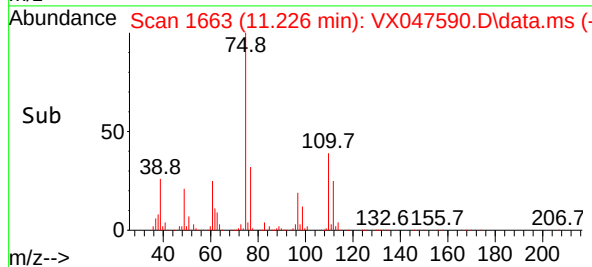
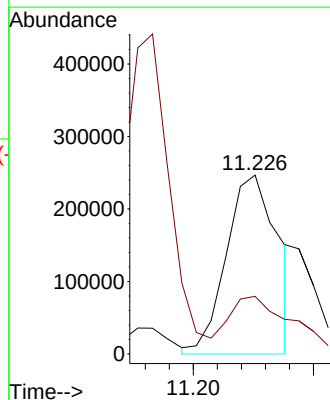
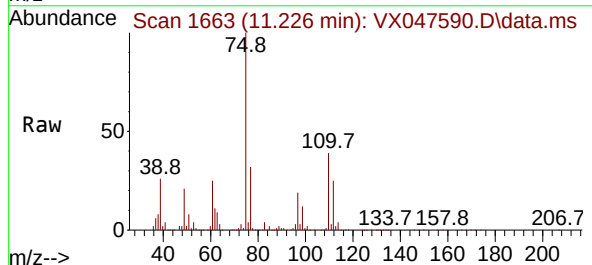
Manual Integrations
APPROVED

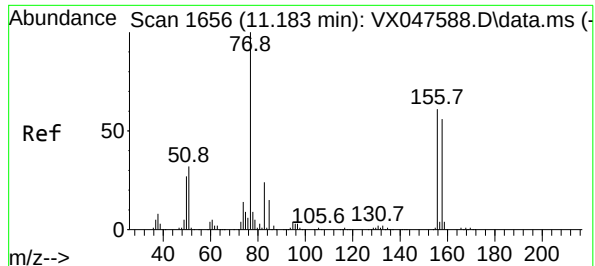
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#76
1,2,3-Trichloropropane
Concen: 153.692 ug/l m
RT: 11.226 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

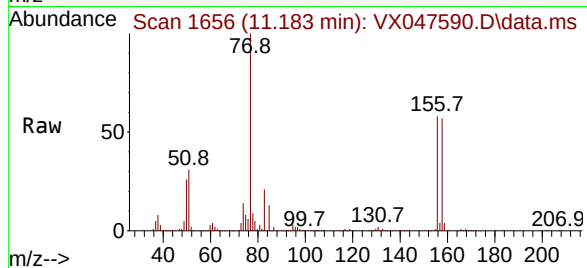
Tgt Ion: 75 Resp: 366171
Ion Ratio Lower Upper
75 100
77 39.7 18.8 56.4





#77
Bromobenzene
Concen: 152.818 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

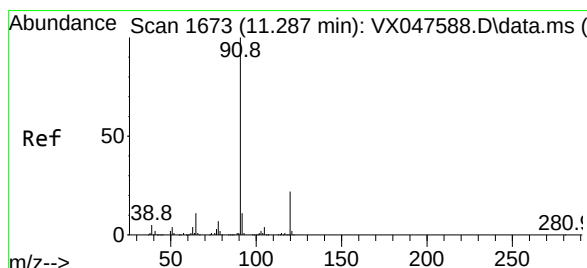
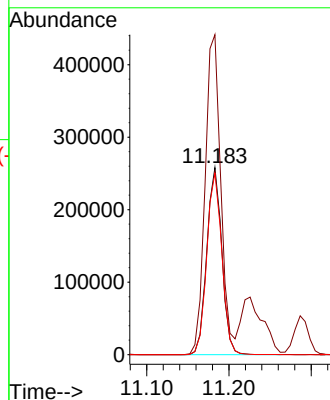
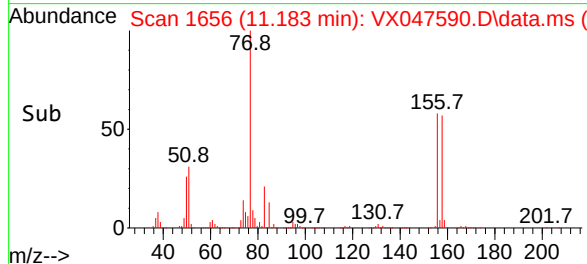
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



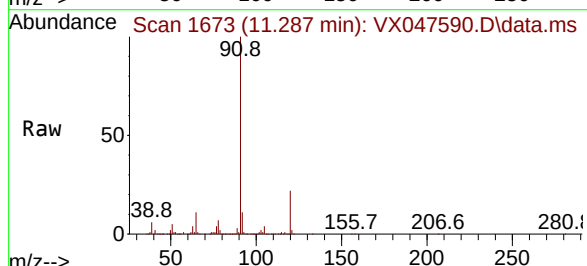
Tgt Ion: 156 Resp: 328330
Ion Ratio Lower Upper
156 100
77 178.2 89.7 269.1
158 97.5 47.9 143.6

Manual Integrations
APPROVED

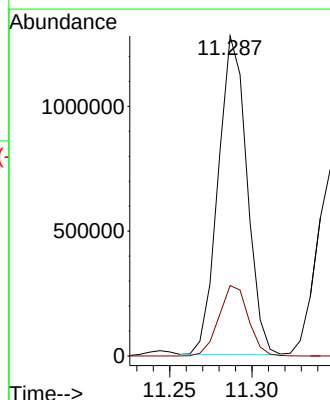
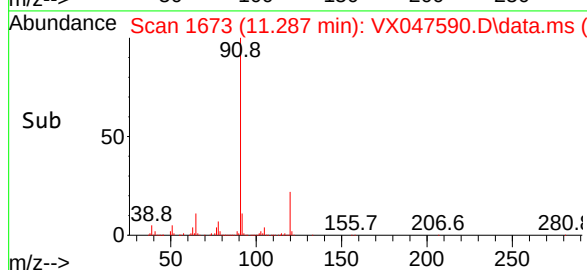
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

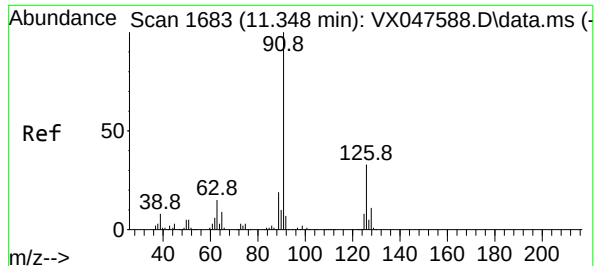


#78
n-propylbenzene
Concen: 150.337 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01



Tgt Ion: 91 Resp: 1550316
Ion Ratio Lower Upper
91 100
120 22.7 11.1 33.1





#79

2-Chlorotoluene

Concen: 148.781 ug/l

RT: 11.348 min Scan# 1683

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 93970

Ion Ratio Lower Upper

91 100

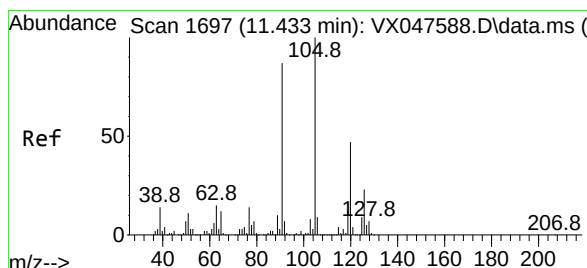
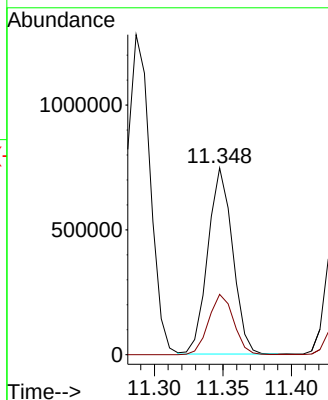
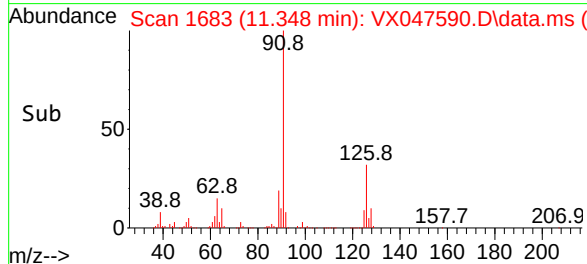
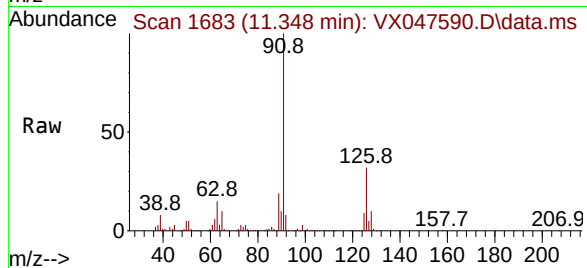
126 32.7 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#80

1,3,5-Trimethylbenzene

Concen: 152.306 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX047590.D

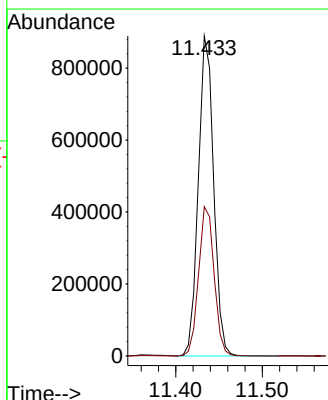
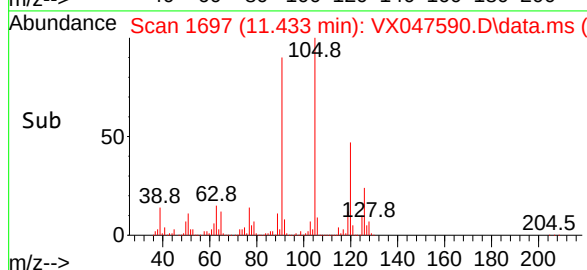
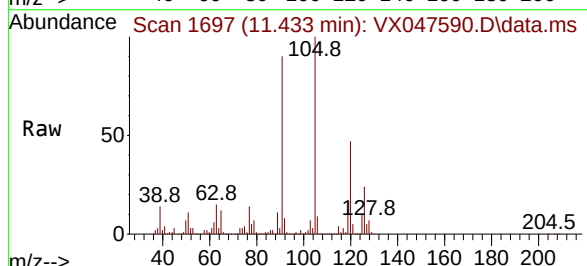
Acq: 16 Sep 2025 12:01

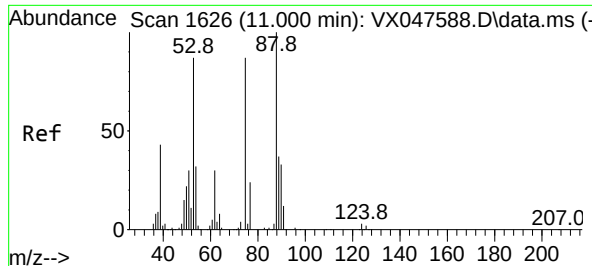
Tgt Ion:105 Resp: 1091593

Ion Ratio Lower Upper

105 100

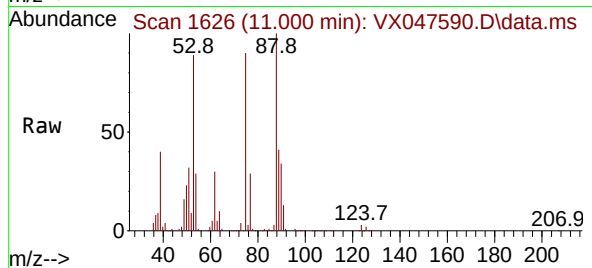
120 47.4 23.6 70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 160.176 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

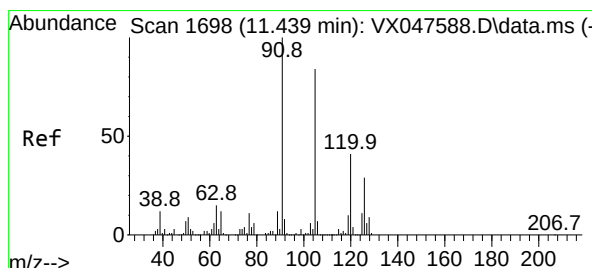
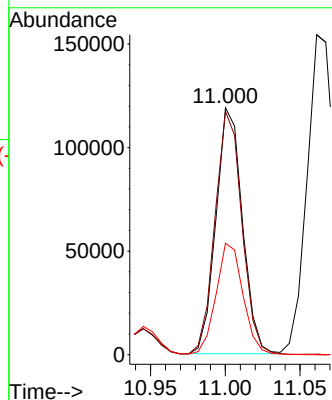
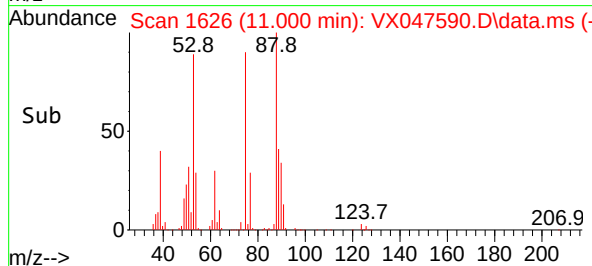
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 75 Resp: 14592
Ion Ratio Lower Upper
75 100
53 100.8 83.4 125.2
89 46.3 36.3 54.5

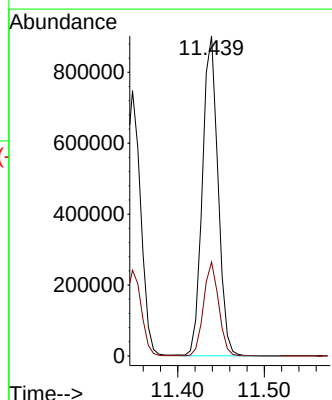
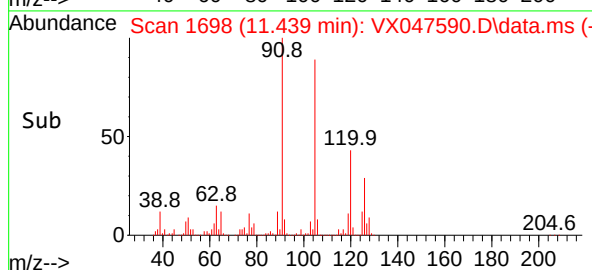
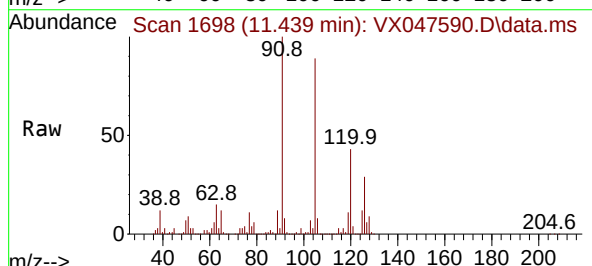
Manual Integrations
APPROVED

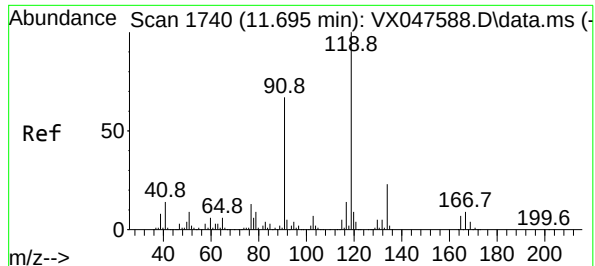
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#82
4-Chlorotoluene
Concen: 151.112 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 91 Resp: 1127233
Ion Ratio Lower Upper
91 100
126 28.5 14.2 42.6





#83

tert-Butylbenzene

Concen: 150.819 ug/l

RT: 11.701 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:119 Resp: 110653

Ion Ratio Lower Upper

119 100

91 58.7 29.6 88.8

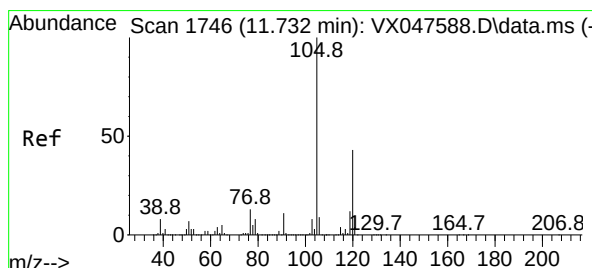
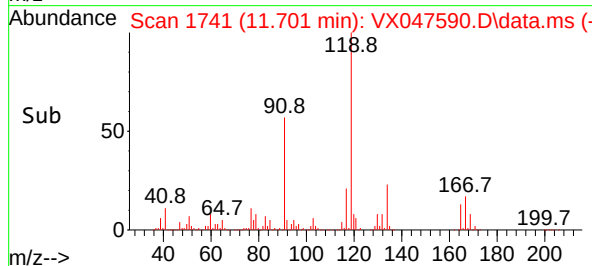
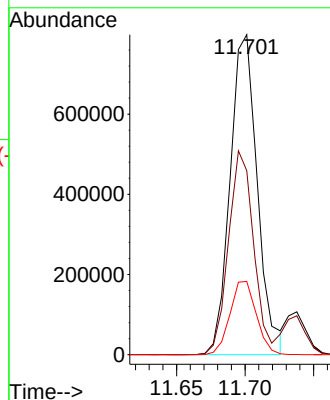
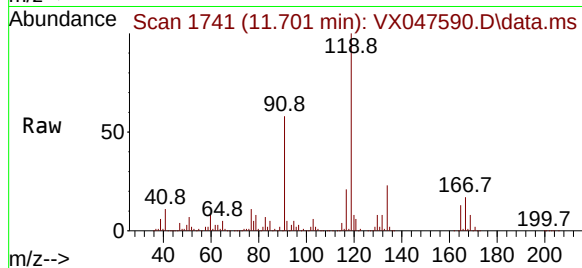
134 22.3 11.0 33.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#84

1,2,4-Trimethylbenzene

Concen: 152.336 ug/l

RT: 11.738 min Scan# 1747

Delta R.T. 0.006 min

Lab File: VX047590.D

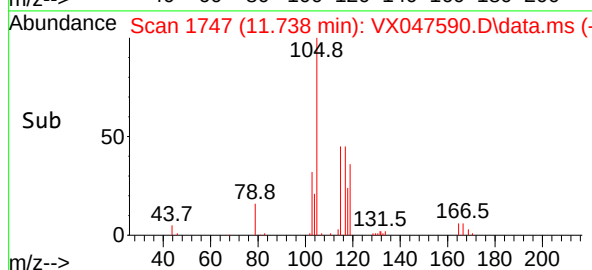
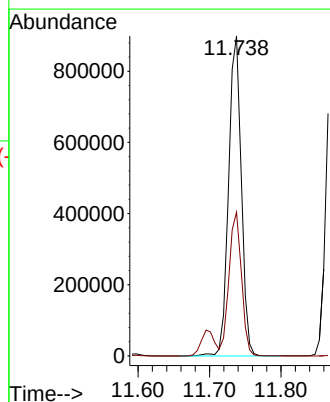
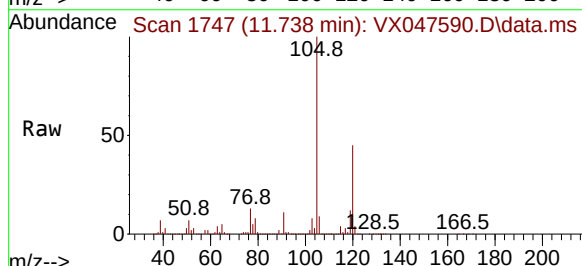
Acq: 16 Sep 2025 12:01

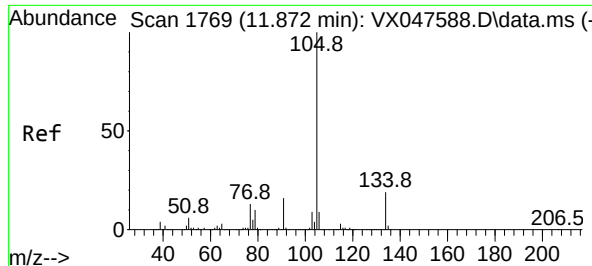
Tgt Ion:105 Resp: 1106914

Ion Ratio Lower Upper

105 100

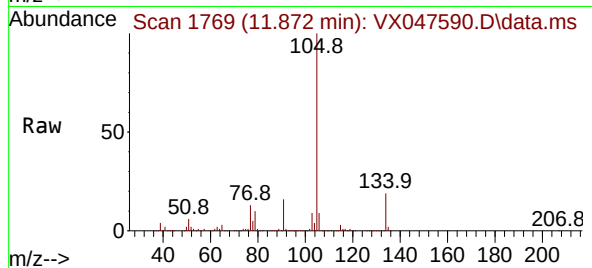
120 44.4 22.1 66.1





#85
sec-Butylbenzene
Concen: 151.448 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

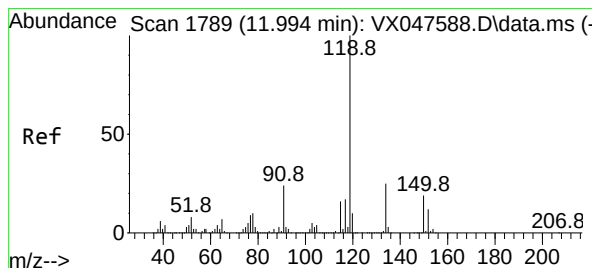
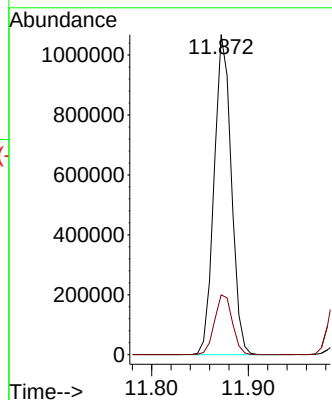
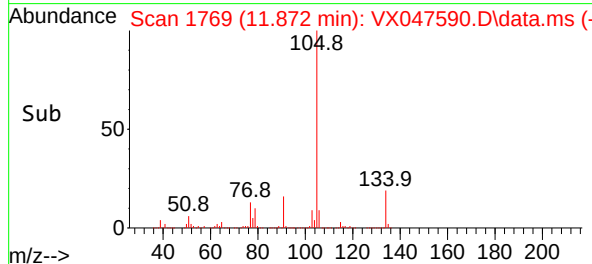
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



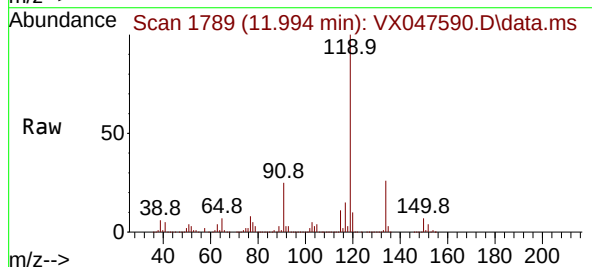
Tgt Ion:105 Resp: 1319819
Ion Ratio Lower Upper
105 100
134 19.4 9.8 29.5

Manual Integrations
APPROVED

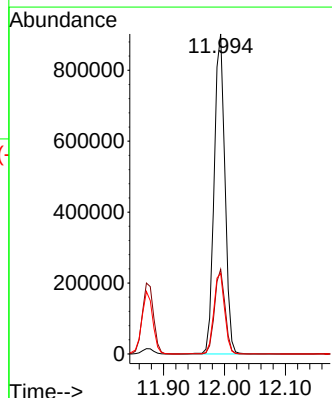
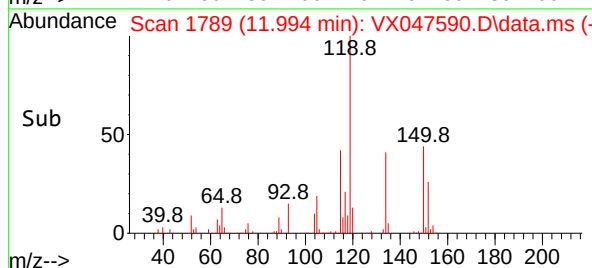
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

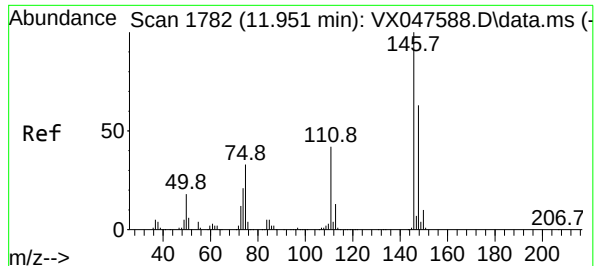


#86
p-Isopropyltoluene
Concen: 149.530 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01



Tgt Ion:119 Resp: 1103210
Ion Ratio Lower Upper
119 100
134 25.9 12.6 37.8
91 25.3 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 151.633 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 60512

Ion Ratio Lower Upper

146 100

111 42.8 21.5 64.5

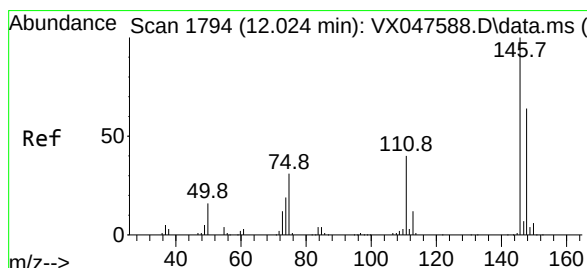
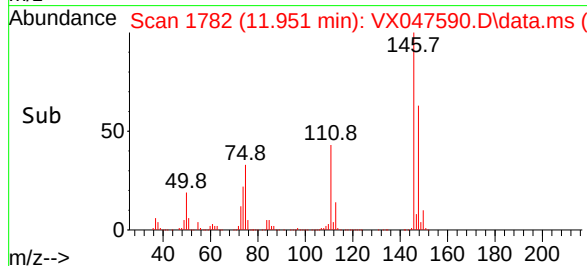
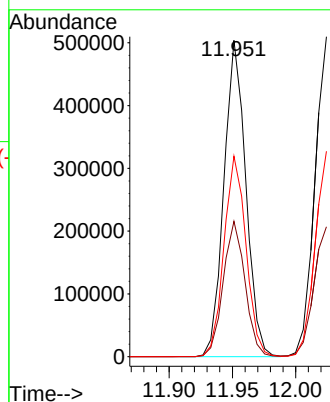
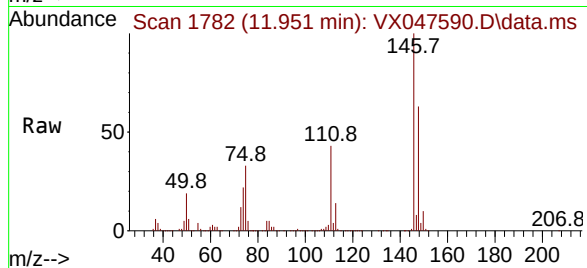
148 63.8 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#88

1,4-Dichlorobenzene

Concen: 149.814 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

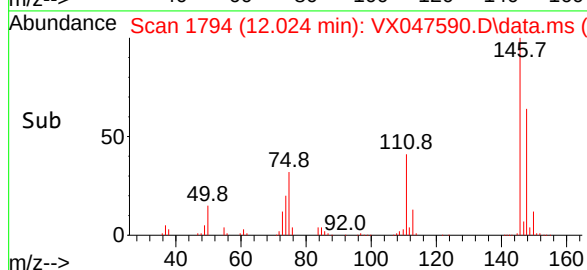
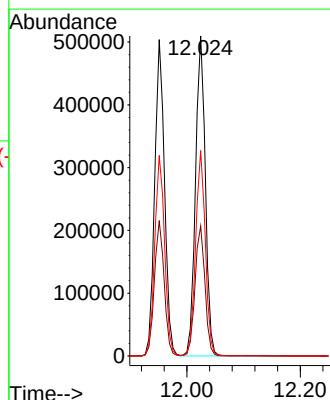
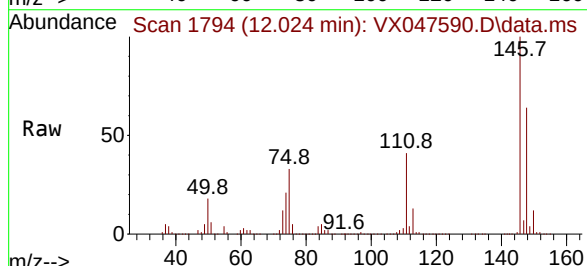
Tgt Ion:146 Resp: 613617

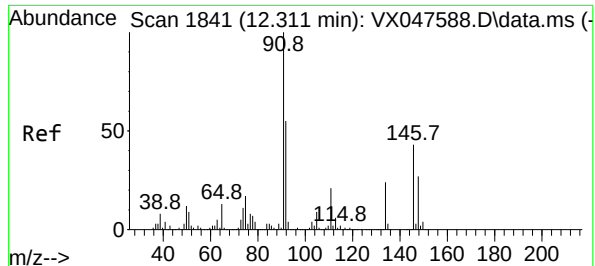
Ion Ratio Lower Upper

146 100

111 41.0 20.8 62.4

148 63.2 31.7 95.1





#89

n-Butylbenzene

Concen: 151.222 ug/l

RT: 12.317 min Scan# 1841

Delta R.T. 0.006 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 103235

Ion Ratio Lower Upper

91 100

92 55.2 27.6 82.7

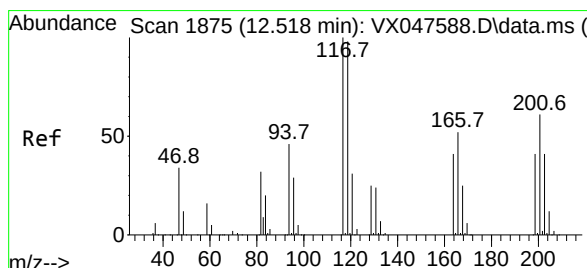
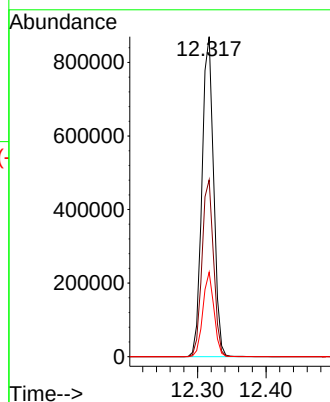
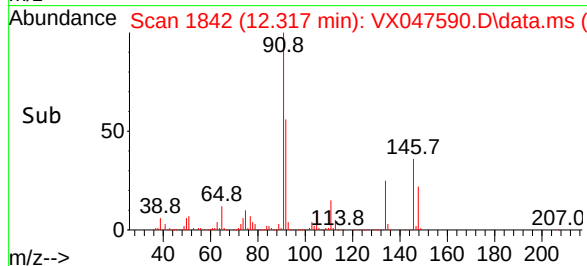
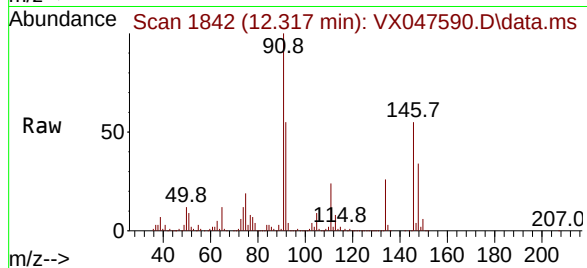
134 25.2 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachloroethane

Concen: 163.258 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX047590.D

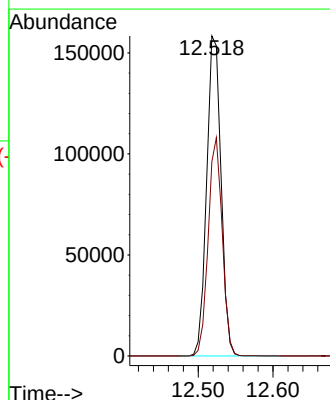
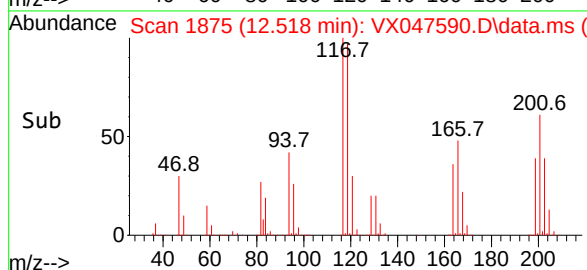
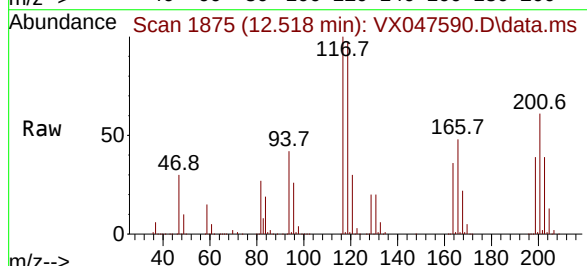
Acq: 16 Sep 2025 12:01

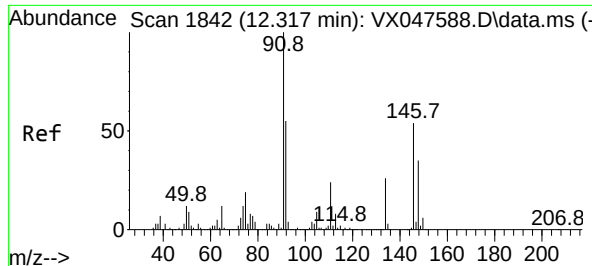
Tgt Ion:117 Resp: 211472

Ion Ratio Lower Upper

117 100

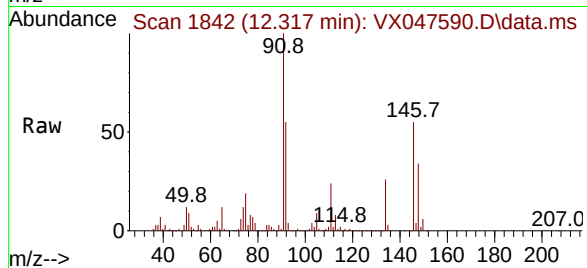
201 66.6 34.2 102.5





#91
1,2-Dichlorobenzene
Concen: 153.227 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

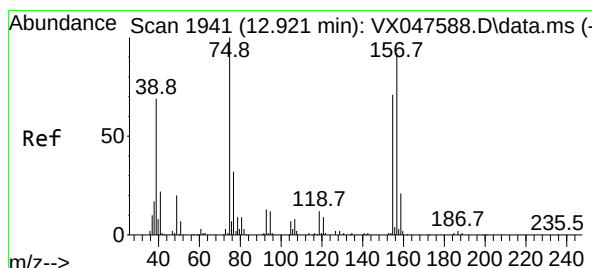
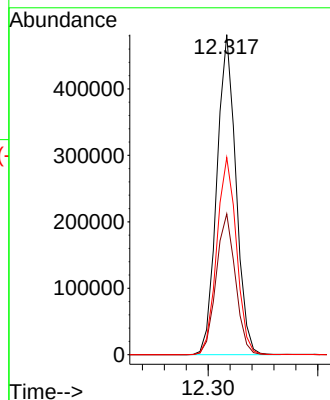
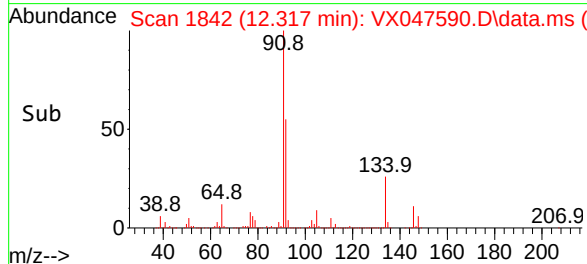
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:146 Resp: 58256
Ion Ratio Lower Upper
146 100
111 44.5 22.2 66.6
148 63.5 31.8 95.4

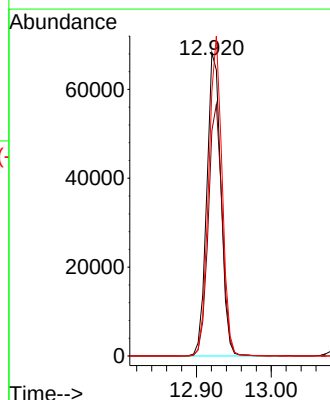
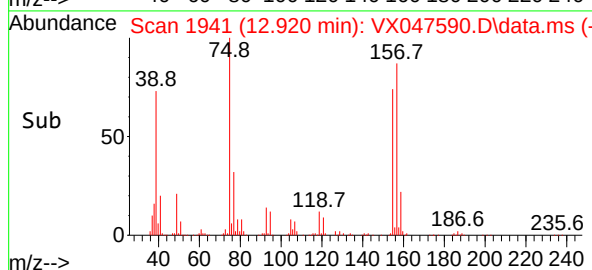
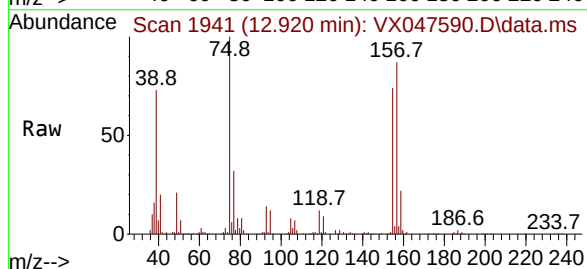
Manual Integrations
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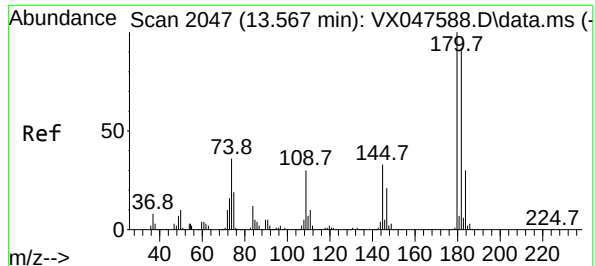
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 167.332 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Tgt Ion: 75 Resp: 89415
Ion Ratio Lower Upper
75 100
155 81.3 37.7 113.1
157 100.6 49.8 149.4





#93

1,2,4-Trichlorobenzene

Concen: 156.884 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

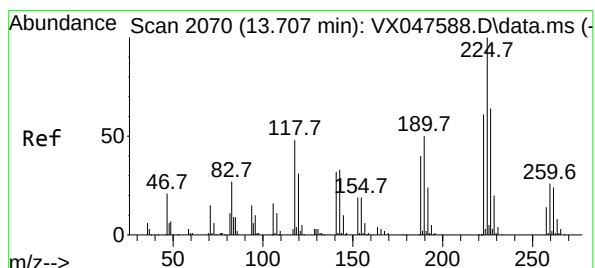
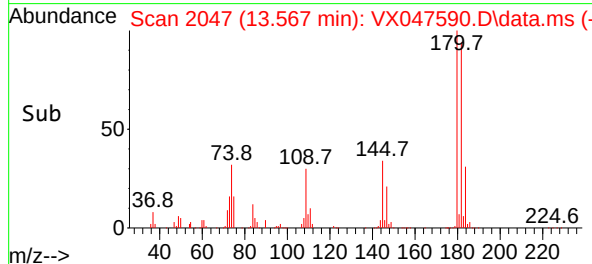
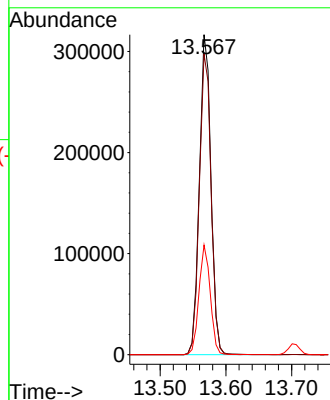
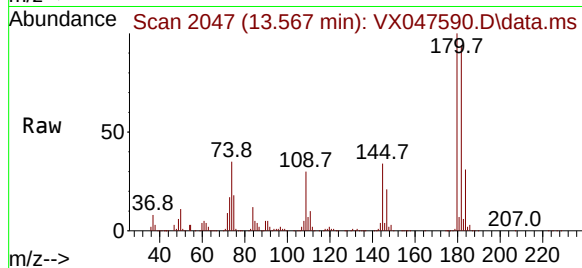
Tgt Ion:	180	Resp:	38765
Ion Ratio	Lower	Upper	
180	100		
182	95.3	46.6	139.8
145	33.5	16.4	49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#94

Hexachlorobutadiene

Concen: 145.110 ug/l

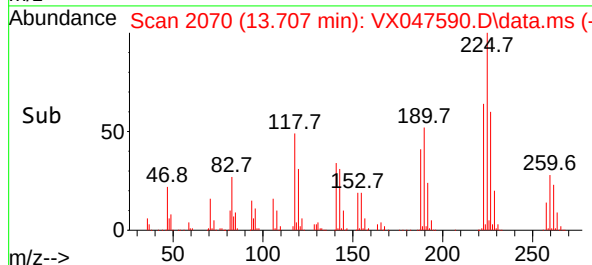
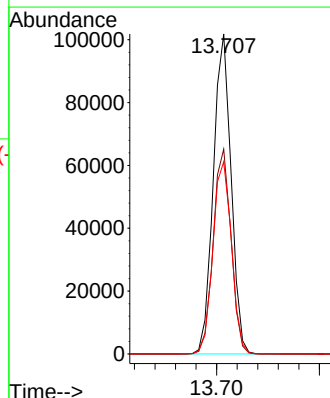
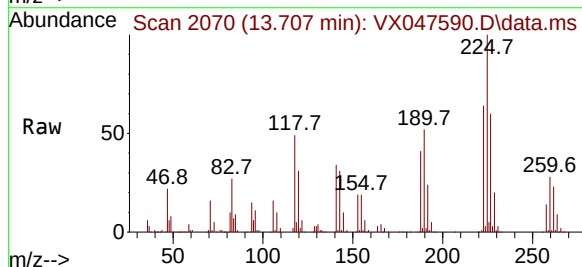
RT: 13.707 min Scan# 2070

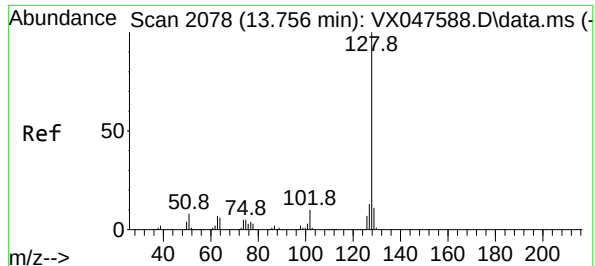
Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

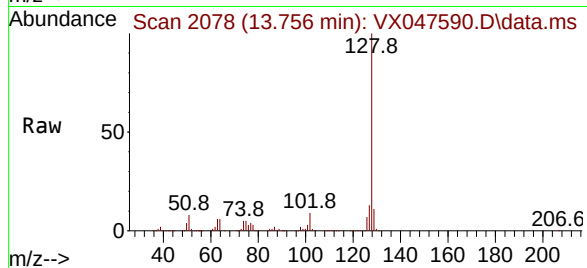
Tgt Ion:	225	Resp:	121791
Ion Ratio	Lower	Upper	
225	100		
223	64.2	31.7	95.1
227	62.8	32.0	96.0





#95
Naphthalene
Concen: 163.388 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

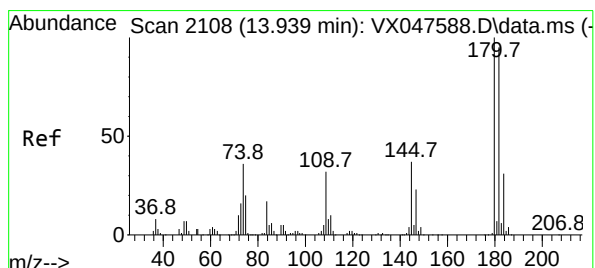
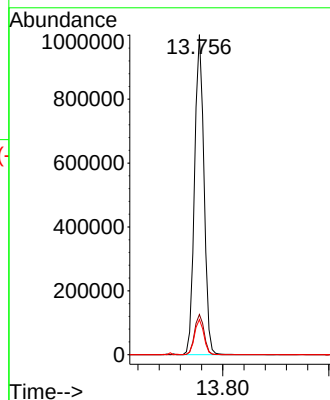
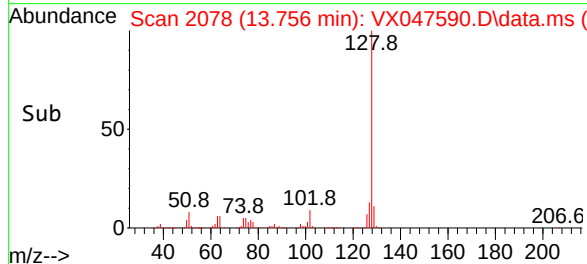
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



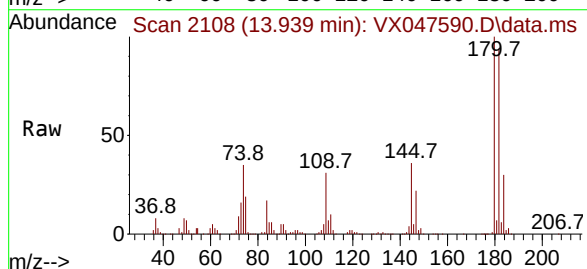
Tgt Ion:128 Resp: 122936
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 10.9 8.8 13.2

Manual Integrations
APPROVED

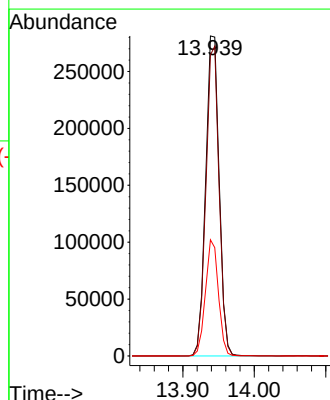
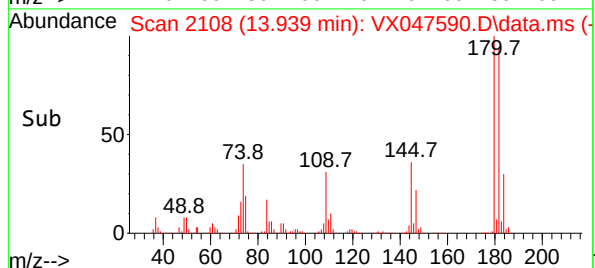
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#96
1,2,3-Trichlorobenzene
Concen: 160.704 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01



Tgt Ion:180 Resp: 369382
Ion Ratio Lower Upper
180 100
182 94.6 47.6 142.8
145 34.9 17.9 53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047592.D
 Acq On : 16 Sep 2025 13:35
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX091625

Quant Time: Sep 17 06:47:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

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

Internal Standards						
1) Pentafluorobenzene	5.531	168	186484	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	331837	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	288660	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	139252	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.934	65	135209	45.550	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	91.100%
35) Dibromofluoromethane	5.367	113	101390	45.559	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	91.120%
50) Toluene-d8	8.634	98	357393	46.411	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	92.820%
62) 4-Bromofluorobenzene	11.061	95	135957	46.520	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	93.040%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.179	85	86110	44.592	ug/l	94
3) Chloromethane	1.300	50	110935	43.710	ug/l	99
4) Vinyl Chloride	1.380	62	113742	45.783	ug/l	99
5) Bromomethane	1.617	94	76388	48.489	ug/l	99
6) Chloroethane	1.697	64	77337	46.575	ug/l	99
7) Trichlorofluoromethane	1.892	101	173647	47.074	ug/l	98
8) Diethyl Ether	2.136	74	70459	46.693	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	104663	48.524	ug/l	99
10) Methyl Iodide	2.453	142	155450	46.210	ug/l	99
11) Tert butyl alcohol	2.940	59	84722	256.271	ug/l	100
12) 1,1-Dichloroethene	2.325	96	104302	47.076	ug/l	98
13) Acrolein	2.233	56	77645	254.867	ug/l	99
14) Allyl chloride	2.666	41	213704	46.742	ug/l	99
15) Acrylonitrile	3.056	53	310505	253.567	ug/l	99
16) Acetone	2.373	43	316217	245.006	ug/l	97
17) Carbon Disulfide	2.514	76	272741	44.966	ug/l	97
18) Methyl Acetate	2.697	43	158480	55.175	ug/l	100
19) Methyl tert-butyl Ether	3.105	73	392574	48.538	ug/l	100
20) Methylene Chloride	2.788	84	125669	46.000	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	111418	46.709	ug/l	99
22) Diisopropyl ether	3.745	45	426854	48.174	ug/l #	83
23) Vinyl Acetate	3.709	43	1741267	245.539	ug/l	99
24) 1,1-Dichloroethane	3.599	63	226249	48.041	ug/l	99
25) 2-Butanone	4.532	43	408273	253.598	ug/l	97
26) 2,2-Dichloropropane	4.458	77	193760	49.494	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	142635	48.826	ug/l	99
28) Bromochloromethane	4.879	49	95782	46.586	ug/l	99
29) Tetrahydrofuran	4.983	42	245392	253.375	ug/l	99
30) Chloroform	5.074	83	231954	48.739	ug/l	99
31) Cyclohexane	5.458	56	180430	45.999	ug/l	99
32) 1,1,1-Trichloroethane	5.367	97	197711	48.978	ug/l	100
36) 1,1-Dichloropropene	5.678	75	151745	46.663	ug/l	99
37) Ethyl Acetate	4.690	43	171454	49.241	ug/l	98
38) Carbon Tetrachloride	5.659	117	165834	46.935	ug/l	95
39) Methylcyclohexane	7.360	83	179392	48.597	ug/l	98
40) Benzene	6.019	78	467748	47.357	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
 Data File : VX047592.D
 Acq On : 16 Sep 2025 13:35
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX091625

Quant Time: Sep 17 06:47:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.897	41	90758	50.490	ug/l	98
42) 1,2-Dichloroethane	6.068	62	176131	46.867	ug/l	100
43) Isopropyl Acetate	6.318	43	280595	49.136	ug/l	100
44) Trichloroethene	7.104	130	114708	48.037	ug/l	98
45) 1,2-Dichloropropane	7.409	63	121532	48.053	ug/l	98
46) Dibromomethane	7.562	93	88297	47.976	ug/l	98
47) Bromodichloromethane	7.799	83	185219	48.769	ug/l	96
48) Methyl methacrylate	7.671	41	141532	49.757	ug/l	99
49) 1,4-Dioxane	7.641	88	31320	1089.520	ug/l	98
51) 4-Methyl-2-Pentanone	8.555	43	809759	255.752	ug/l	100
52) Toluene	8.702	92	292879	48.130	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	191863	49.527	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	203954	49.257	ug/l	97
55) 1,1,2-Trichloroethane	9.134	97	112094	47.772	ug/l	98
56) Ethyl methacrylate	9.098	69	189741	51.490	ug/l	99
57) 1,3-Dichloropropane	9.293	76	197079	48.894	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.226	63	394205	225.562	ug/l	99
59) 2-Hexanone	9.415	43	575599	253.126	ug/l	99
60) Dibromochloromethane	9.506	129	134704	49.824	ug/l	99
61) 1,2-Dibromoethane	9.592	107	117817	49.297	ug/l	99
64) Tetrachloroethene	9.256	164	90881	48.296	ug/l	98
65) Chlorobenzene	10.061	112	318372	48.549	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.146	131	110416	48.794	ug/l	98
67) Ethyl Benzene	10.177	91	563634	49.813	ug/l	99
68) m/p-Xylenes	10.287	106	416757	98.956	ug/l	99
69) o-Xylene	10.622	106	204323	50.159	ug/l	99
70) Styrene	10.640	104	353567	49.536	ug/l	99
71) Bromoform	10.780	173	86524	51.207	ug/l #	98
73) Isopropylbenzene	10.945	105	523826	49.479	ug/l	100
74) N-amyl acetate	10.823	43	243198	50.375	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.195	83	159676	49.851	ug/l	99
76) 1,2,3-Trichloropropane	11.219	75	149779m	53.124	ug/l	
77) Bromobenzene	11.183	156	125610	48.173	ug/l	98
78) n-propylbenzene	11.286	91	616928	49.295	ug/l	99
79) 2-Chlorotoluene	11.347	91	376486	49.117	ug/l	100
80) 1,3,5-Trimethylbenzene	11.433	105	435375	50.055	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	55880	50.543	ug/l	99
82) 4-Chlorotoluene	11.433	91	445075	49.164	ug/l	100
83) tert-Butylbenzene	11.695	119	442341	49.679	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	440134	49.911	ug/l	99
85) sec-Butylbenzene	11.872	105	529869	50.100	ug/l	100
86) p-Isopropyltoluene	11.994	119	446441	49.861	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	237383	49.014	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	243618	49.011	ug/l	99
89) n-Butylbenzene	12.317	91	420478	50.752	ug/l	100
90) Hexachloroethane	12.518	117	79751	50.732	ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	227493	49.304	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	33020	50.918	ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	153333	51.133	ug/l	100
94) Hexachlorobutadiene	13.707	225	53099	52.131	ug/l	99
95) Naphthalene	13.756	128	464206	50.836	ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	142413	51.054	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

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

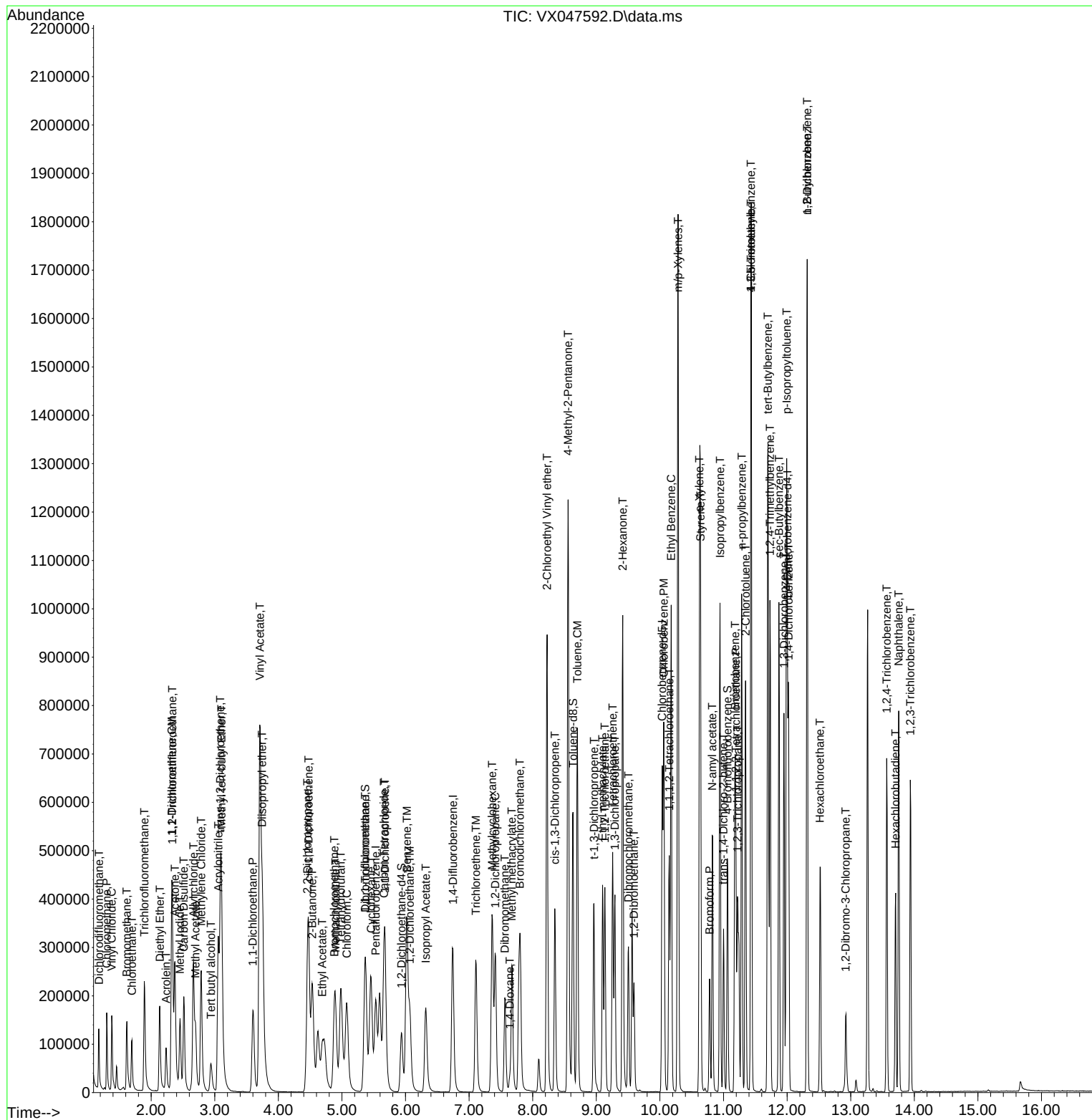
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 Data File : VX047592.D
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 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

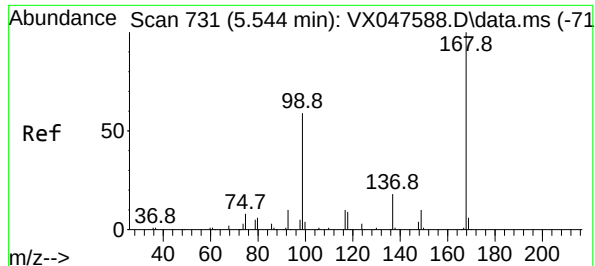
Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX091625

Manual Integrations APPROVED

Reviewed By : John Carlone 09/17/2025
 Supervised By : Mahesh Dadoda 09/18/2025

Quant Time: Sep 17 06:47:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration





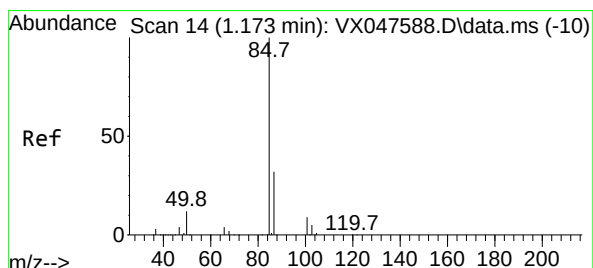
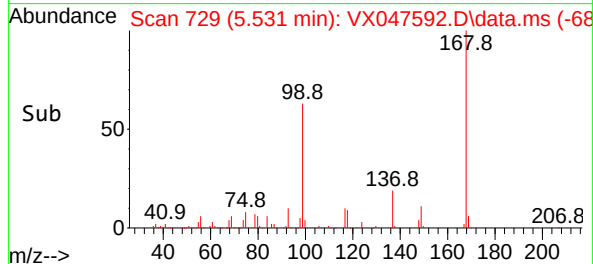
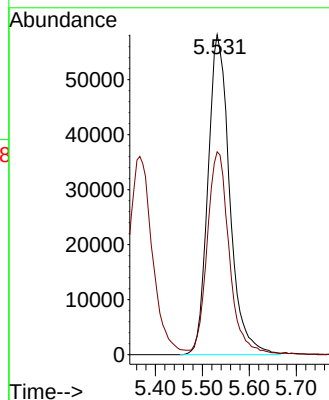
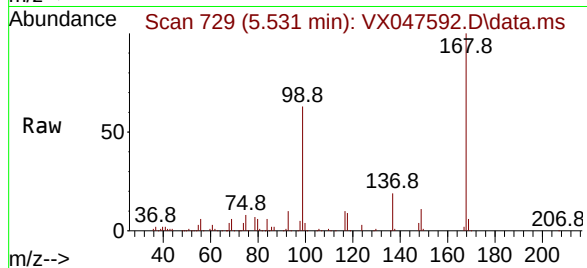
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 71
Delta R.T. -0.013 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:168 Resp: 186484
Ion Ratio Lower Upper
168 100
99 62.9 48.8 73.2

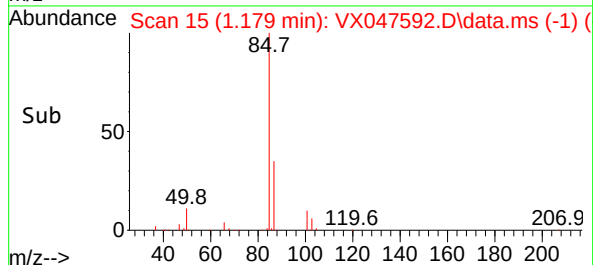
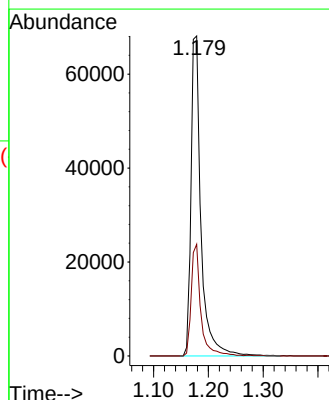
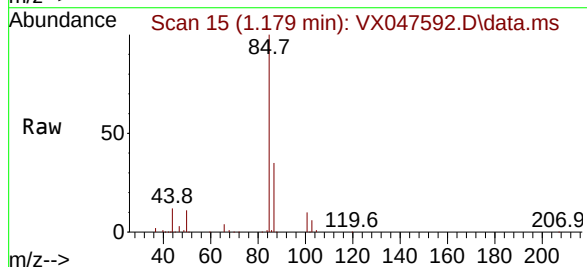
Manual Integrations
APPROVED

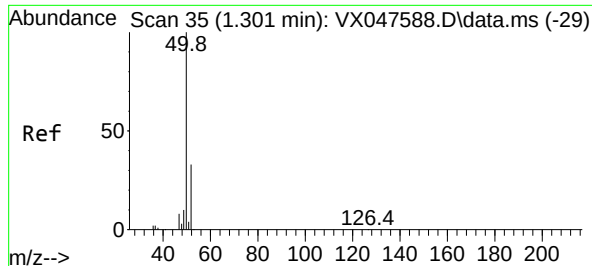
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#2
Dichlorodifluoromethane
Concen: 44.592 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 85 Resp: 86110
Ion Ratio Lower Upper
85 100
87 34.9 15.8 47.3





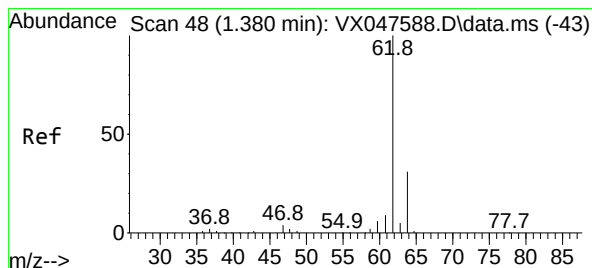
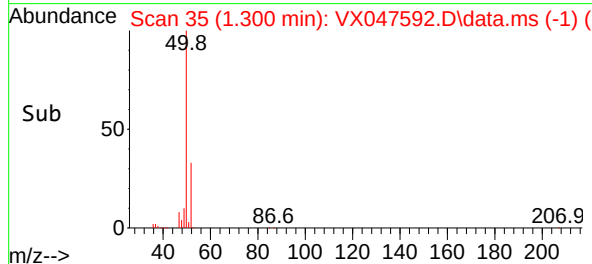
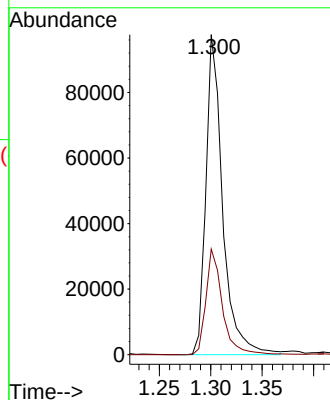
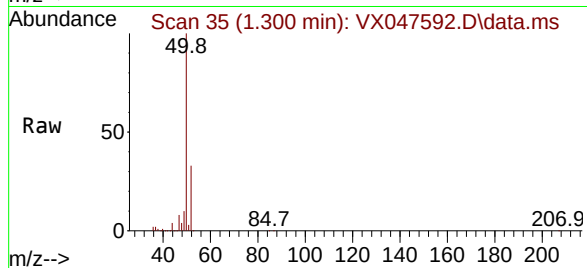
#3
Chloromethane
Concen: 43.710 ug/l
RT: 1.300 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 50 Resp: 110935
Ion Ratio Lower Upper
50 100
52 33.0 26.1 39.1

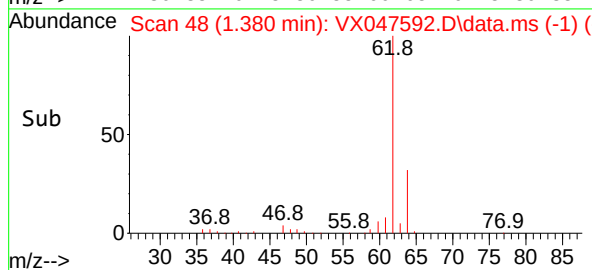
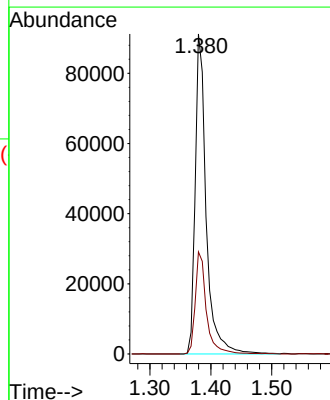
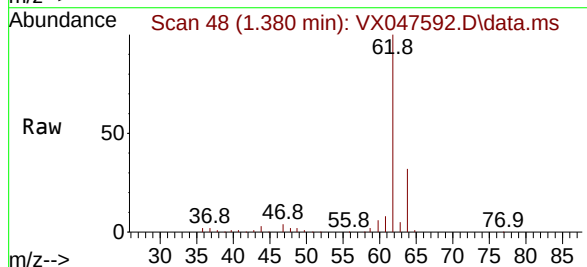
Manual Integrations
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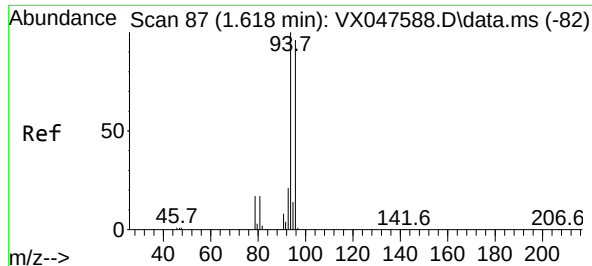
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#4
Vinyl Chloride
Concen: 45.783 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 62 Resp: 113742
Ion Ratio Lower Upper
62 100
64 31.9 24.9 37.3





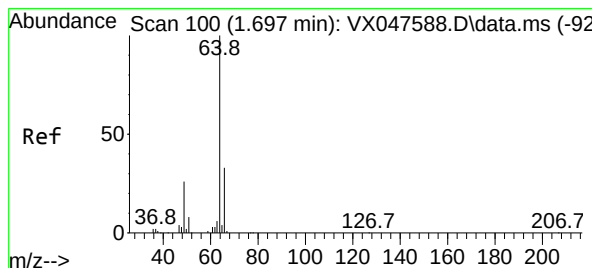
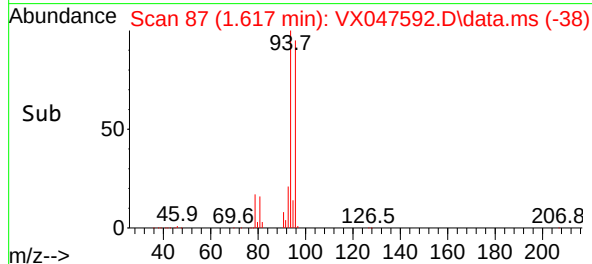
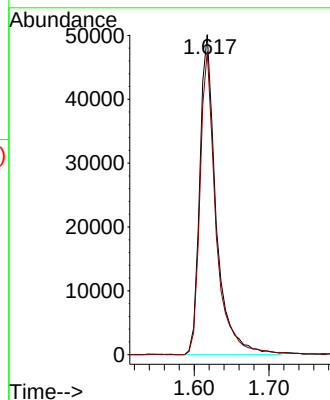
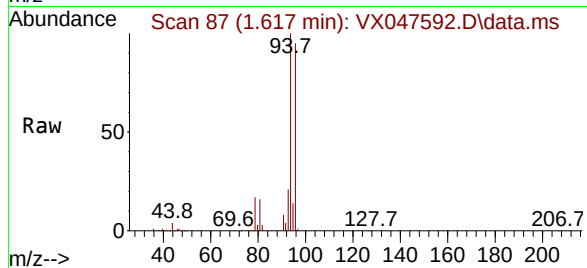
#5
Bromomethane
Concen: 48.489 ug/l
RT: 1.617 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 94 Resp: 7638
Ion Ratio Lower Upper
94 100
96 94.7 76.6 115.0

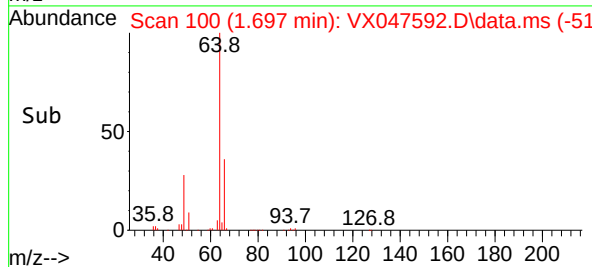
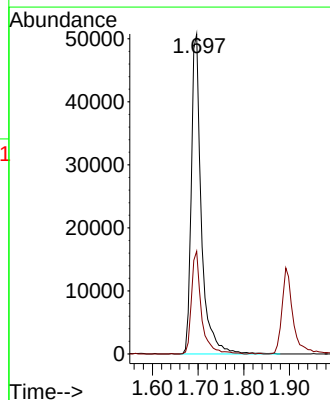
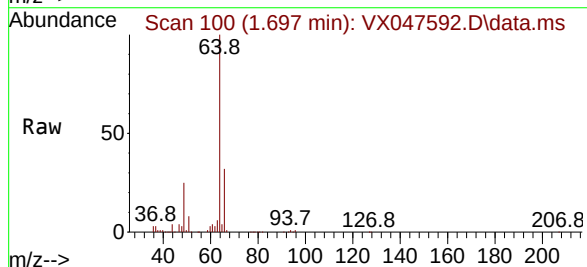
Manual Integrations
APPROVED

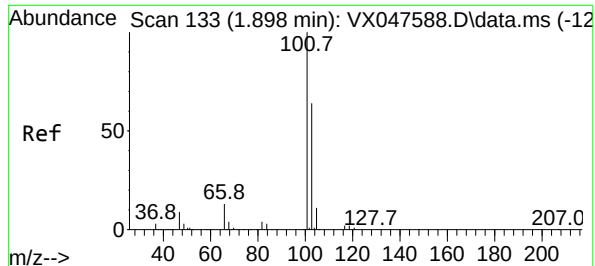
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#6
Chloroethane
Concen: 46.575 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

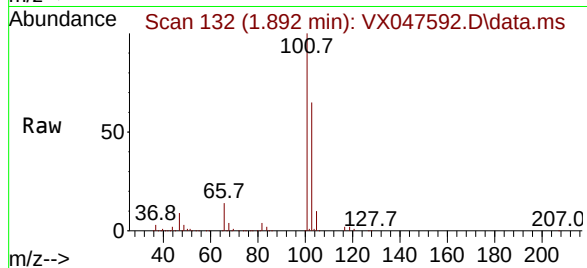
Tgt Ion: 64 Resp: 77337
Ion Ratio Lower Upper
64 100
66 32.1 26.1 39.1





#7
Trichlorofluoromethane
Concen: 47.074 ug/l
RT: 1.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

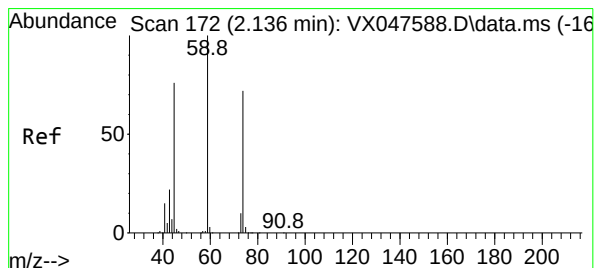
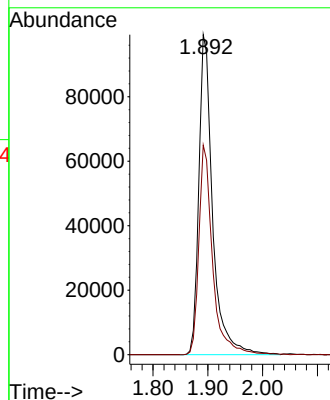
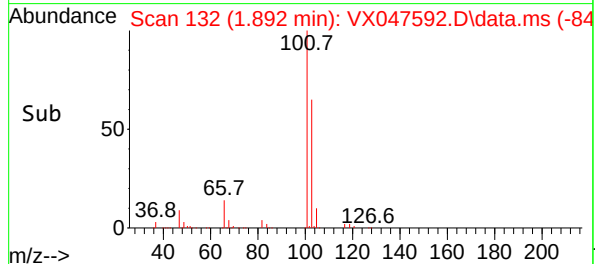
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion:101 Resp: 17364
Ion Ratio Lower Upper
101 100
103 65.5 51.4 77.2

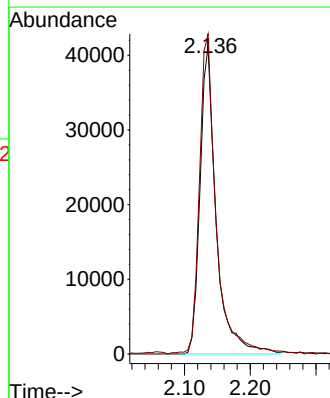
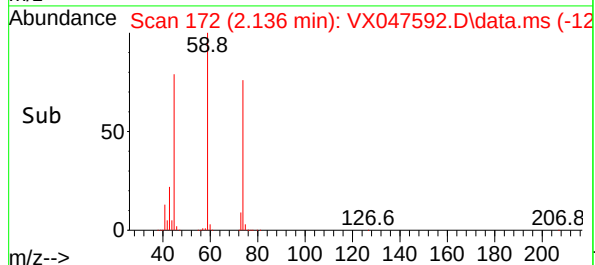
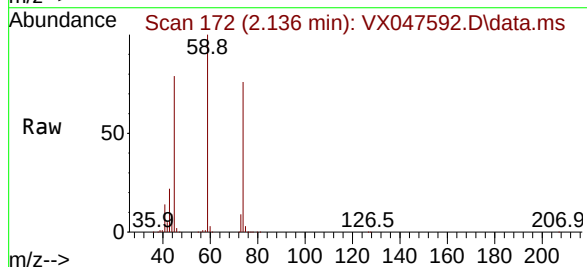
Manual Integrations
APPROVED

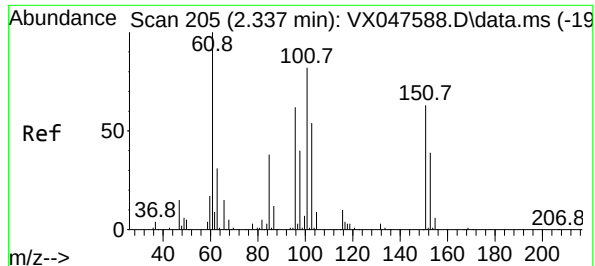
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#8
Diethyl Ether
Concen: 46.693 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 74 Resp: 70459
Ion Ratio Lower Upper
74 100
45 107.1 52.3 156.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.524 ug/l

RT: 2.331 min Scan# 205

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion:101 Resp: 10466

Ion Ratio Lower Upper

101 100

85 44.1 35.5 53.3

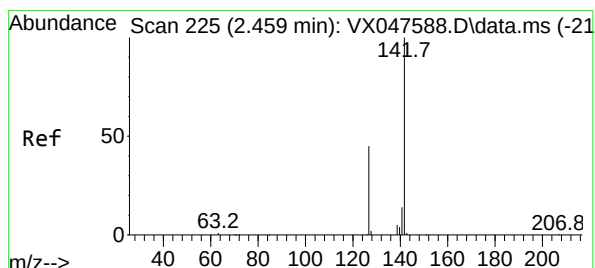
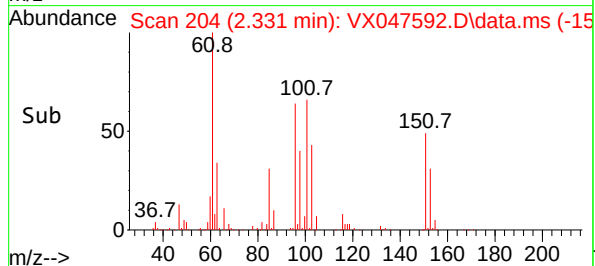
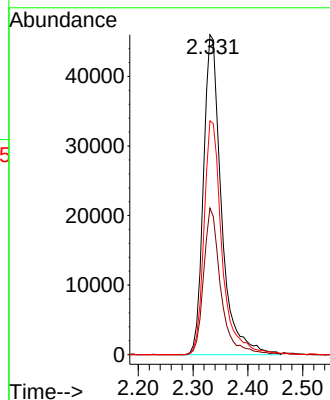
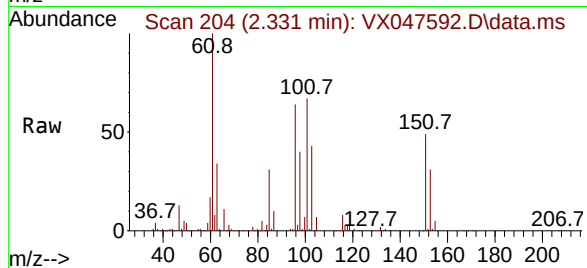
151 73.3 59.4 89.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#10

Methyl Iodide

Concen: 46.210 ug/l

RT: 2.453 min Scan# 224

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

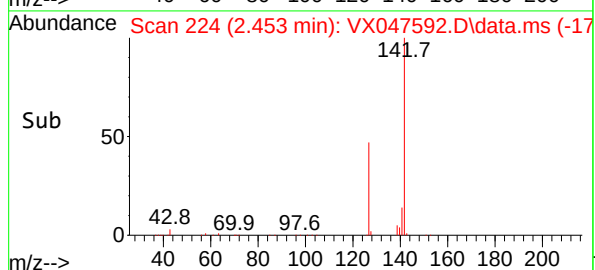
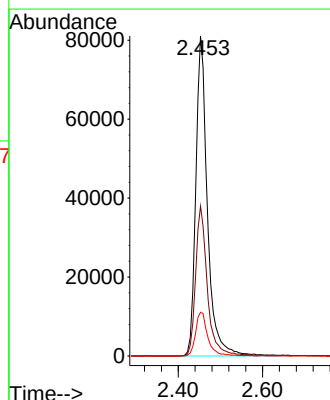
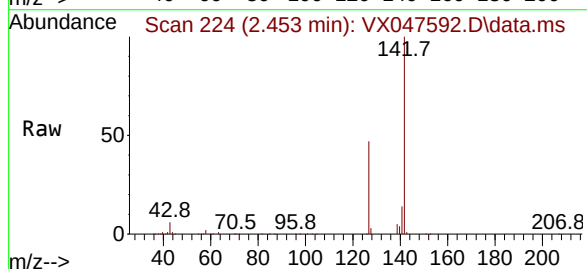
Tgt Ion:142 Resp: 155450

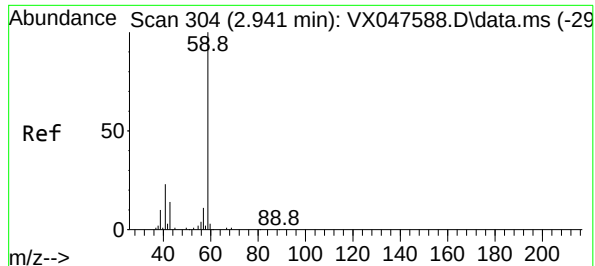
Ion Ratio Lower Upper

142 100

127 47.6 37.2 55.8

141 14.4 11.4 17.0





#11

Tert butyl alcohol

Concen: 256.271 ug/l

RT: 2.940 min Scan# 304

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion: 59 Resp: 8472

Ion Ratio Lower Upper

59 100

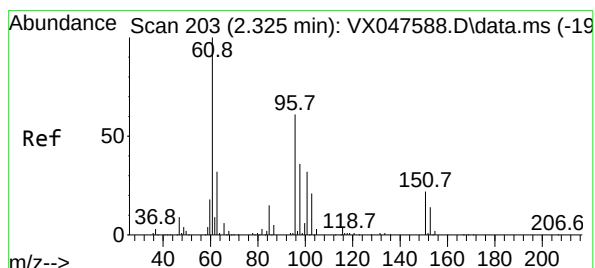
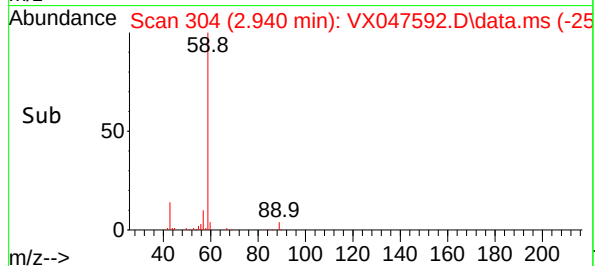
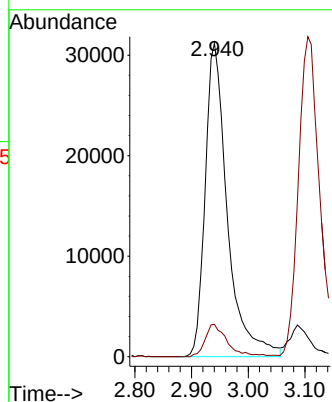
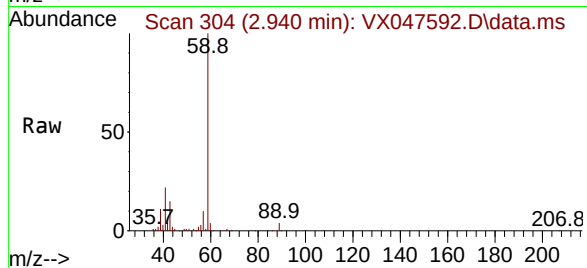
57 10.3 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#12

1,1-Dichloroethene

Concen: 47.076 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

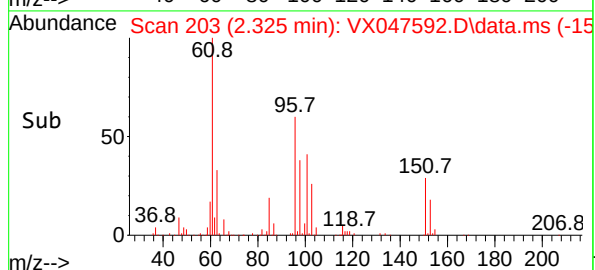
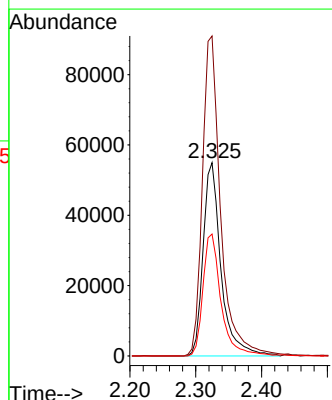
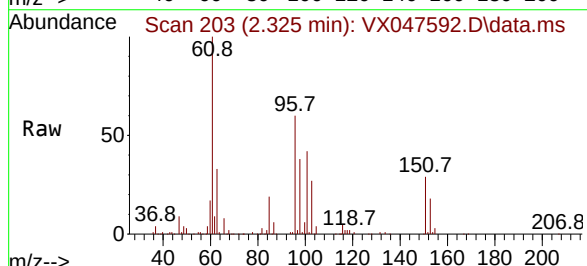
Tgt Ion: 96 Resp: 104302

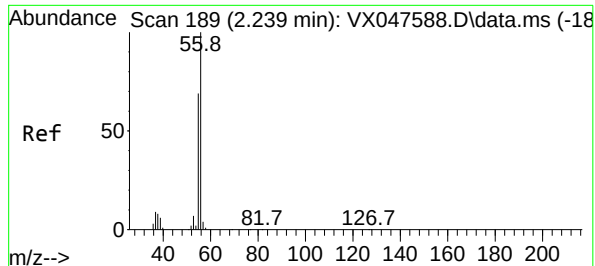
Ion Ratio Lower Upper

96 100

61 165.6 131.0 196.6

98 63.1 47.7 71.5





#13

Acrolein

Concen: 254.867 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion: 56 Resp: 7764

Ion Ratio Lower Upper

56 100

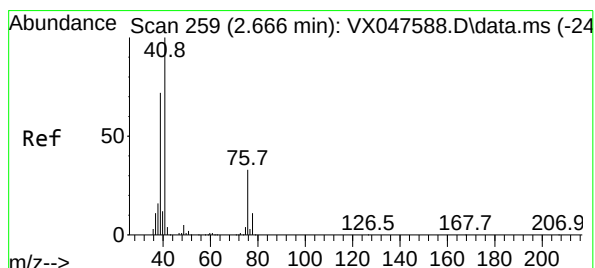
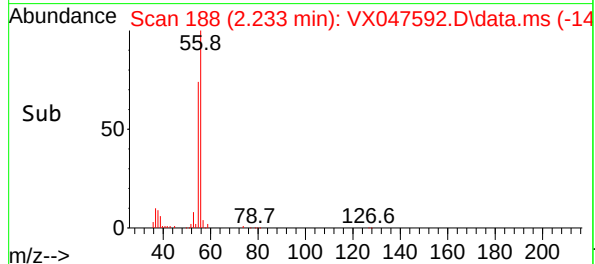
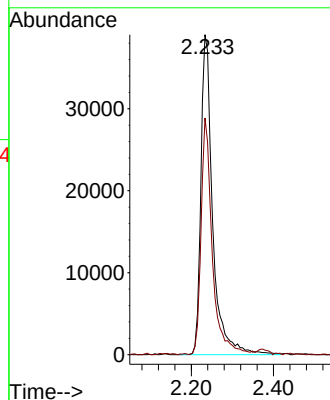
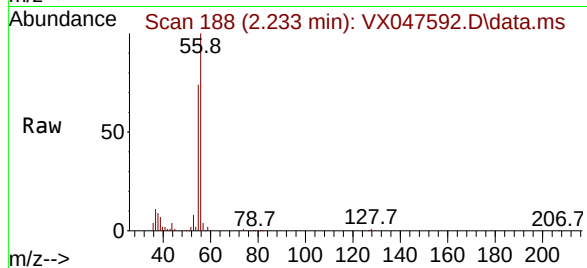
55 70.3 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#14

Allyl chloride

Concen: 46.742 ug/l

RT: 2.666 min Scan# 259

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

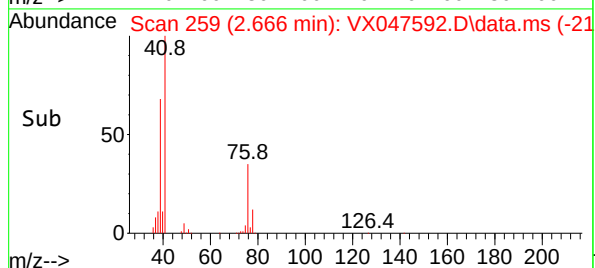
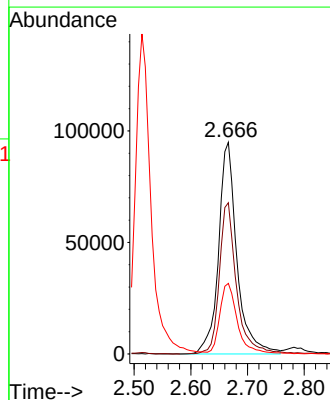
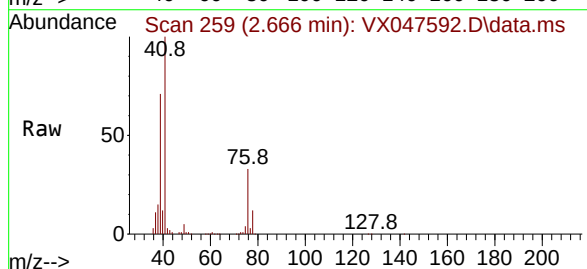
Tgt Ion: 41 Resp: 213704

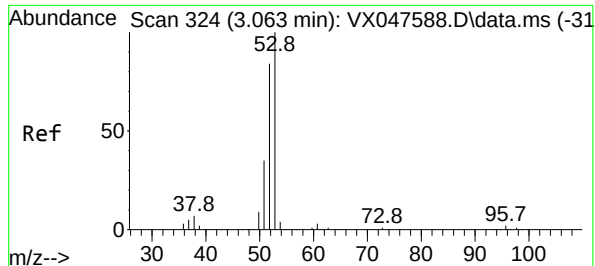
Ion Ratio Lower Upper

41 100

39 67.2 54.7 82.1

76 31.7 25.7 38.5





#15

Acrylonitrile

Concen: 253.567 ug/l

RT: 3.056 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

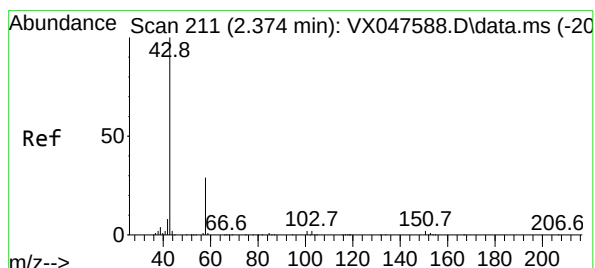
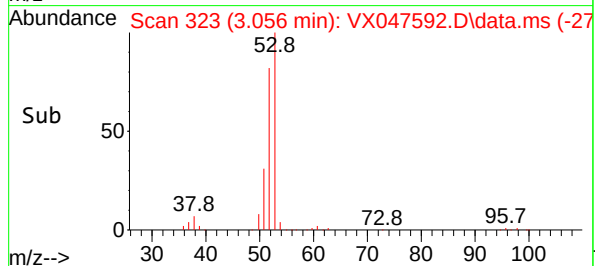
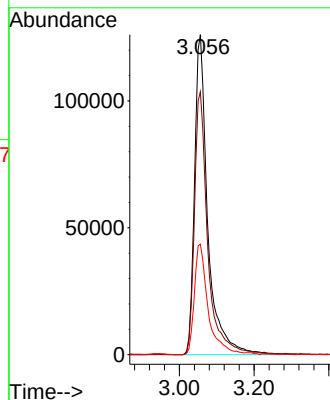
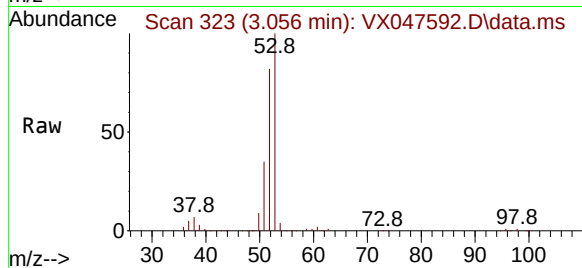
ICVVX091625

Tgt Ion:	53	Resp:	31050
Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.4	99.6
51	36.2	29.5	44.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#16

Acetone

Concen: 245.006 ug/l

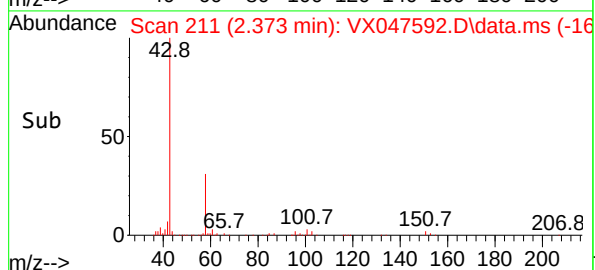
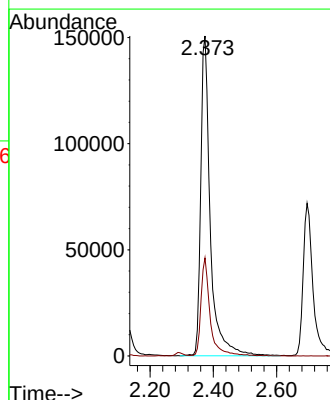
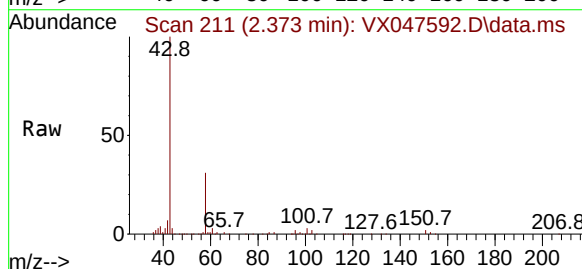
RT: 2.373 min Scan# 211

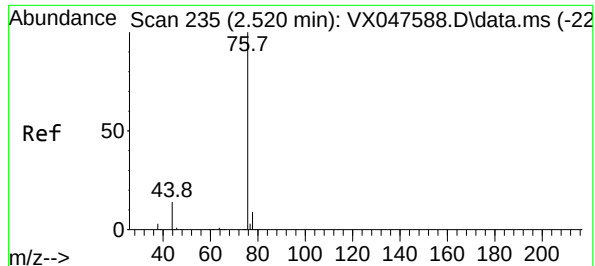
Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Tgt Ion:	43	Resp:	316217
Ion	Ratio	Lower	Upper
43	100		
58	30.6	23.4	35.0





#17

Carbon Disulfide

Concen: 44.966 ug/l

RT: 2.514 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion: 76 Resp: 27274

Ion Ratio Lower Upper

76 100

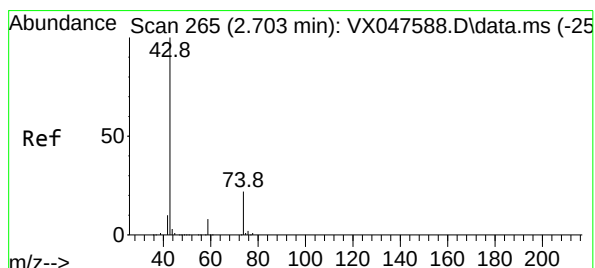
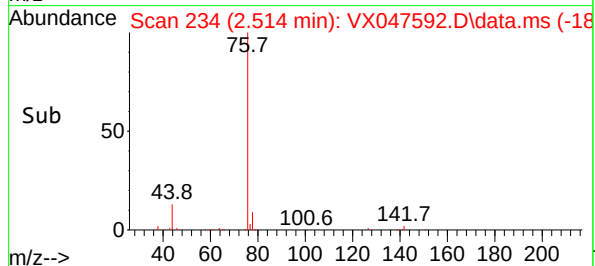
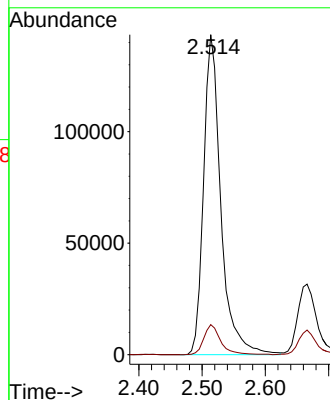
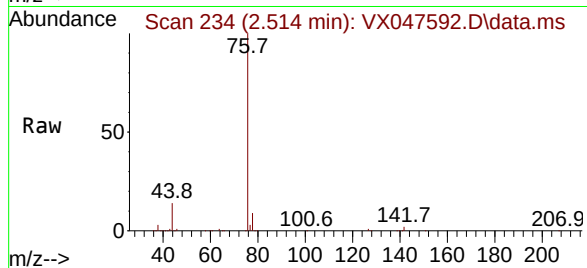
78 9.6 6.8 10.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#18

Methyl Acetate

Concen: 55.175 ug/l

RT: 2.697 min Scan# 264

Delta R.T. -0.006 min

Lab File: VX047592.D

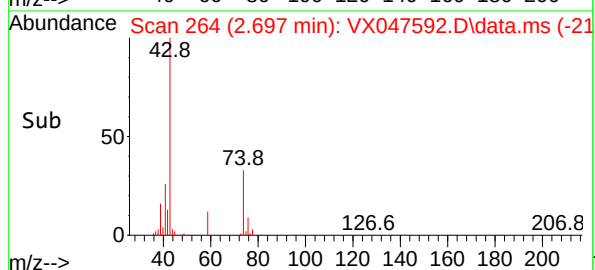
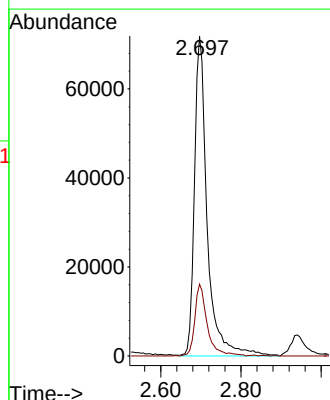
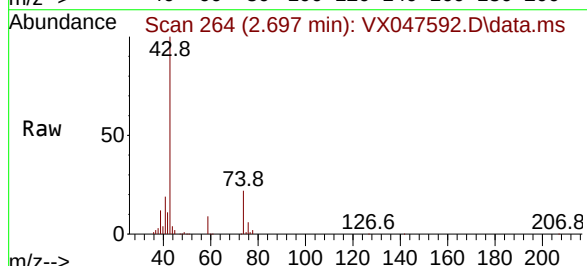
Acq: 16 Sep 2025 13:35

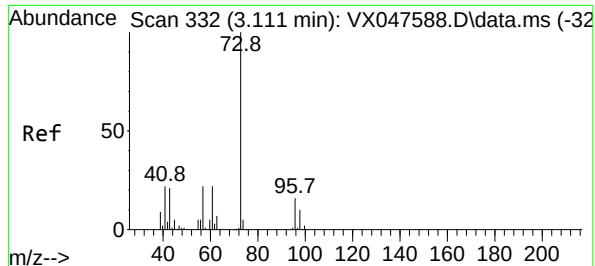
Tgt Ion: 43 Resp: 158480

Ion Ratio Lower Upper

43 100

74 21.8 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 48.538 ug/l

RT: 3.105 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion: 73 Resp: 392574

Ion Ratio Lower Upper

73 100

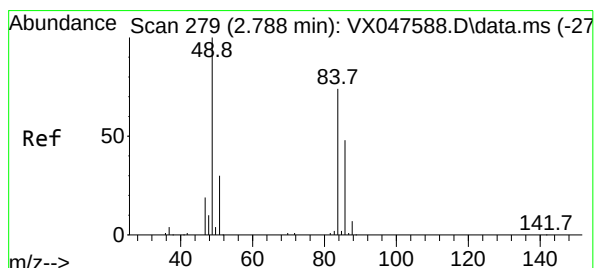
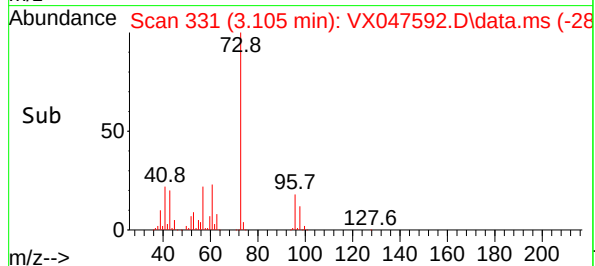
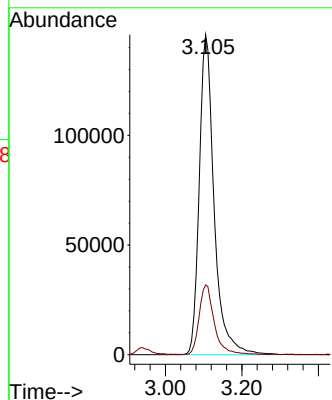
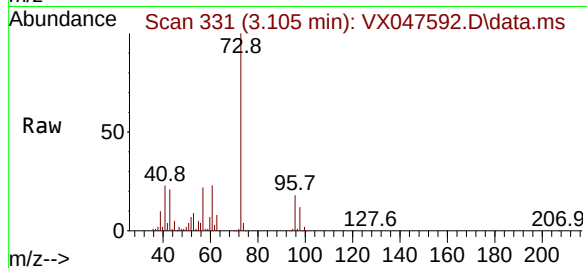
57 21.7 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#20

Methylene Chloride

Concen: 46.000 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Tgt Ion: 84 Resp: 125669

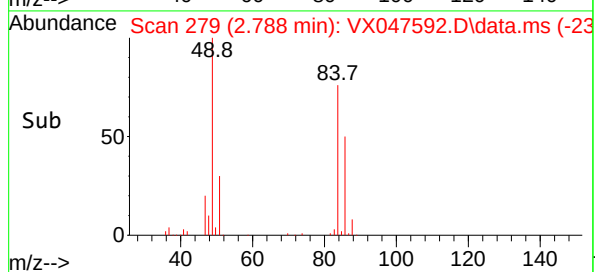
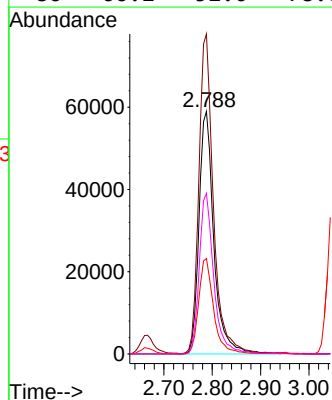
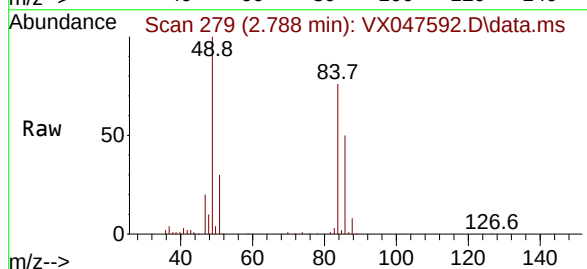
Ion Ratio Lower Upper

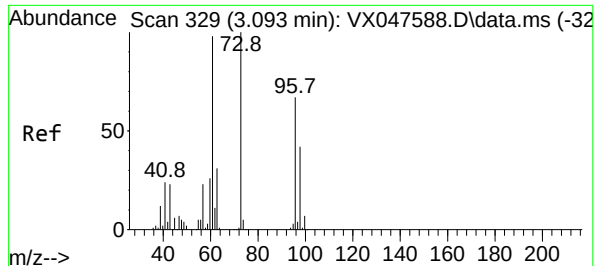
84 100

49 131.8 108.6 162.8

51 39.4 32.6 48.8

86 66.2 52.0 78.0





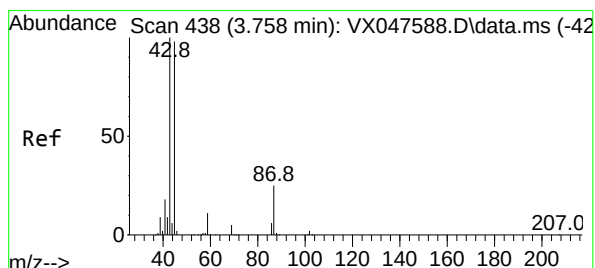
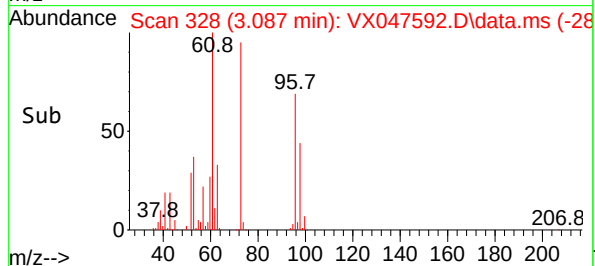
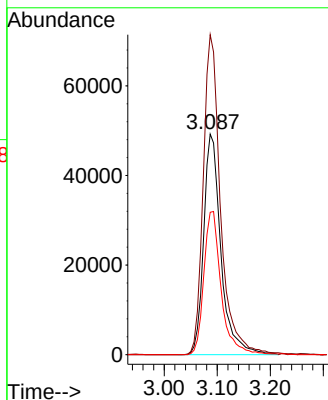
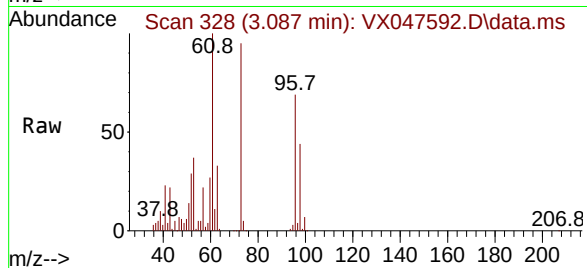
#21
trans-1,2-Dichloroethene
Concen: 46.709 ug/l
RT: 3.087 min Scan# 311
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 96 Resp: 111418
Ion Ratio Lower Upper
96 100
61 145.1 116.2 174.2
98 64.5 49.3 73.9

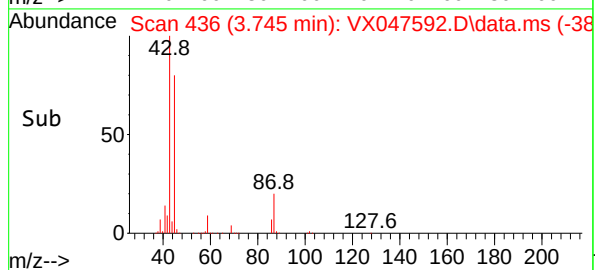
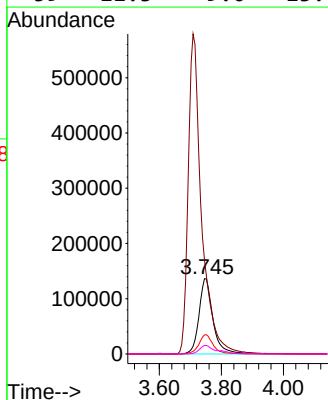
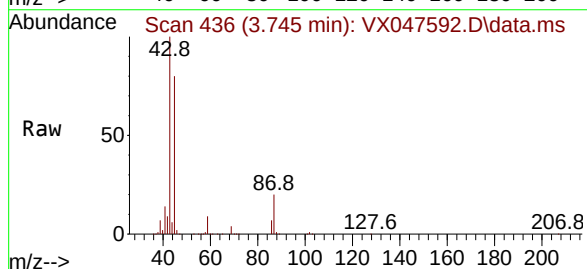
Manual Integrations
APPROVED

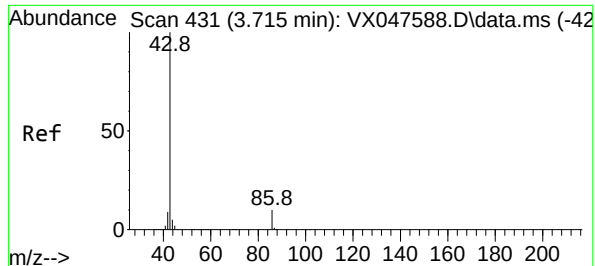
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#22
Diisopropyl ether
Concen: 48.174 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 45 Resp: 426854
Ion Ratio Lower Upper
45 100
43 124.9 81.0 121.4#
87 25.2 20.3 30.5
59 11.3 9.0 13.4





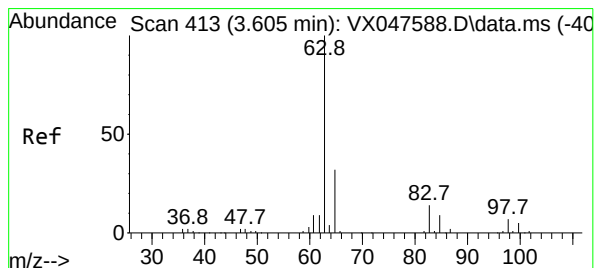
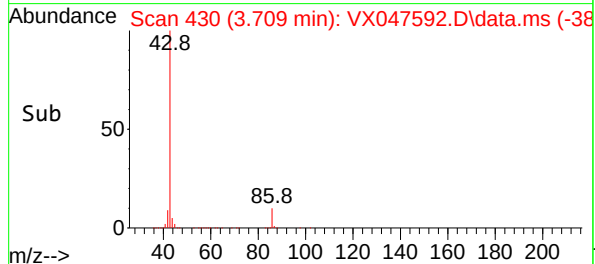
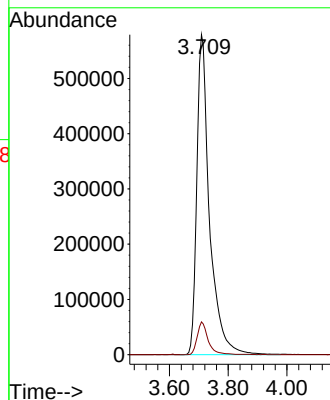
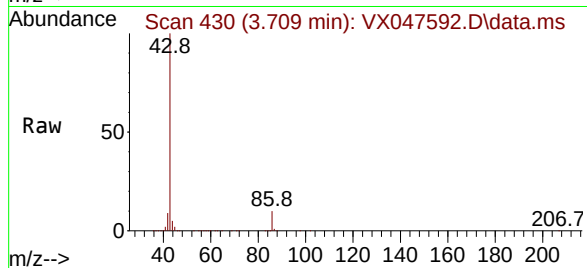
#23
Vinyl Acetate
Concen: 245.539 ug/l
RT: 3.709 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 43 Resp: 174126
Ion Ratio Lower Upper
43 100
86 10.2 7.8 11.8

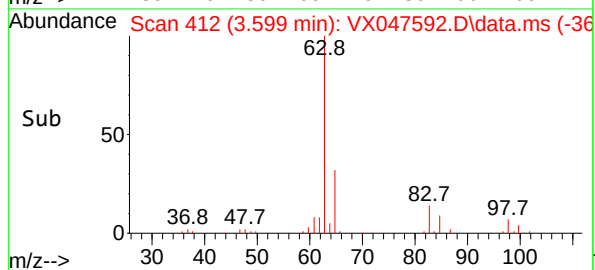
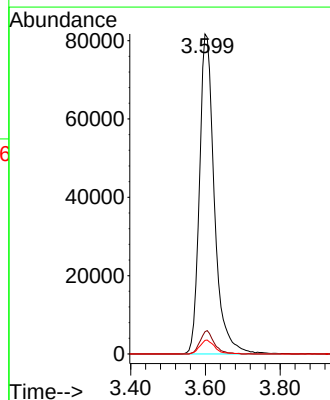
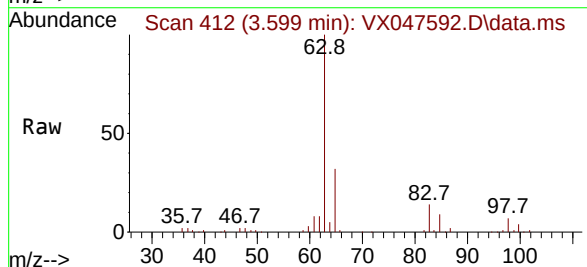
Manual Integrations
APPROVED

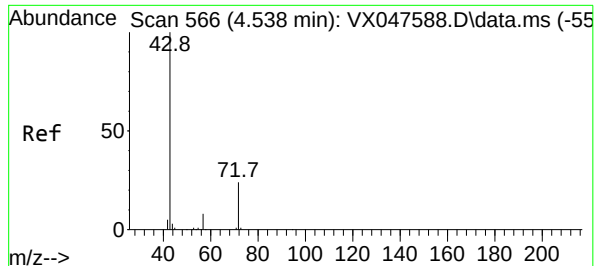
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#24
1,1-Dichloroethane
Concen: 48.041 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 63 Resp: 226249
Ion Ratio Lower Upper
63 100
98 6.9 3.8 11.2
100 4.4 2.3 6.9





#25

2-Butanone

Concen: 253.598 ug/l

RT: 4.532 min Scan# 50

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion: 43 Resp: 40827

Ion Ratio Lower Upper

43 100

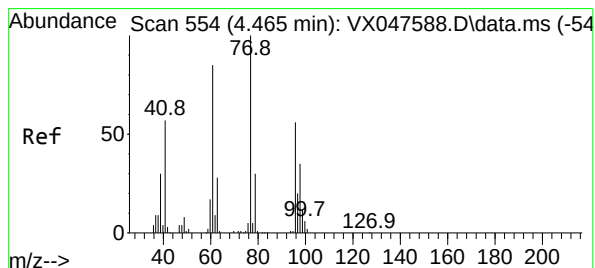
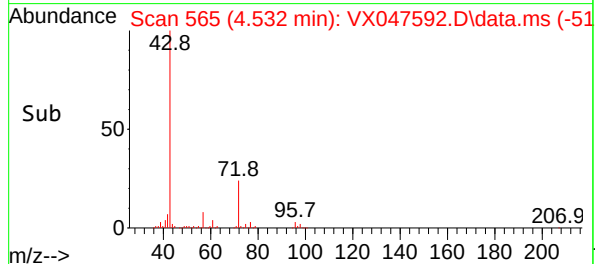
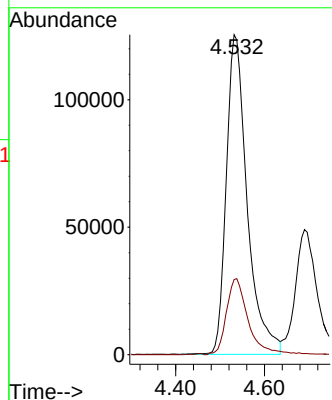
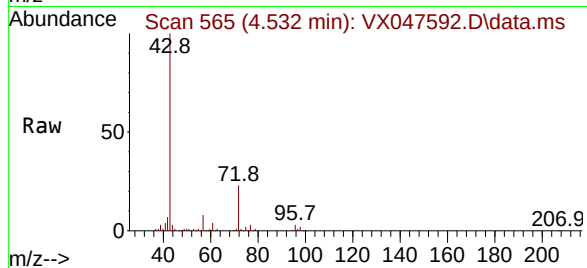
72 23.5 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#26

2,2-Dichloropropane

Concen: 49.494 ug/l

RT: 4.458 min Scan# 553

Delta R.T. -0.006 min

Lab File: VX047592.D

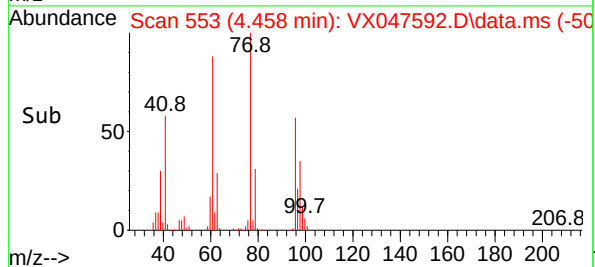
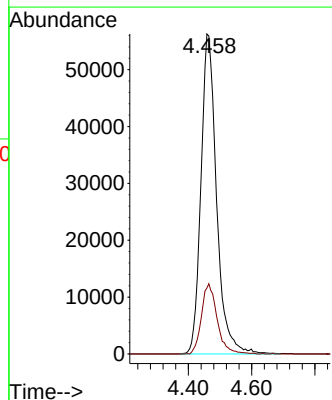
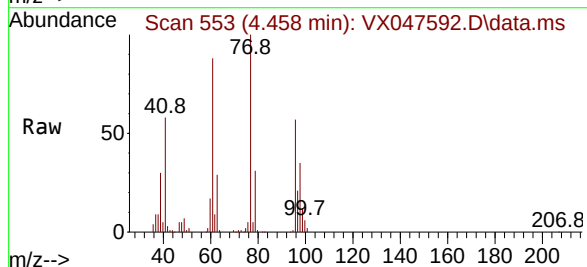
Acq: 16 Sep 2025 13:35

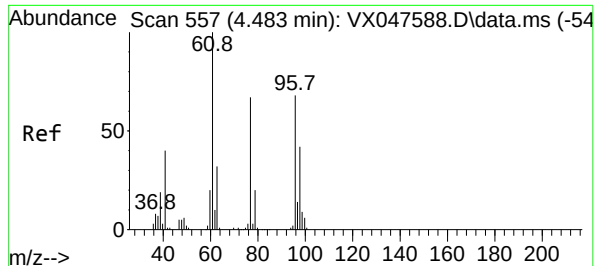
Tgt Ion: 77 Resp: 193760

Ion Ratio Lower Upper

77 100

97 22.0 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 48.826 ug/l

RT: 4.477 min Scan# 556

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion: 96 Resp: 14263

Ion Ratio Lower Upper

96 100

61 149.7 0.0 303.2

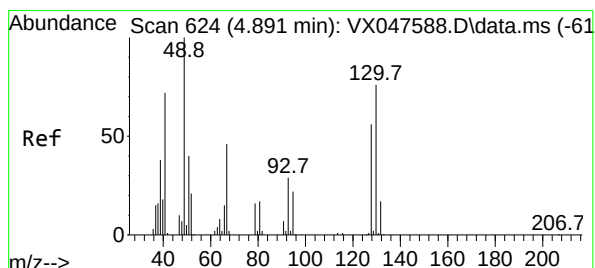
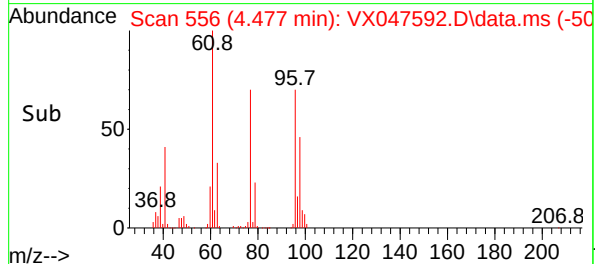
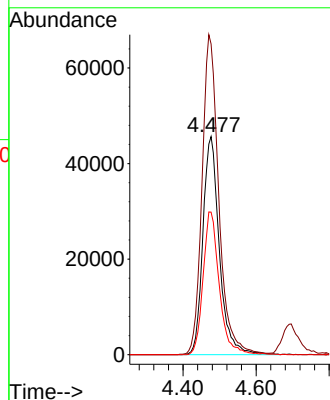
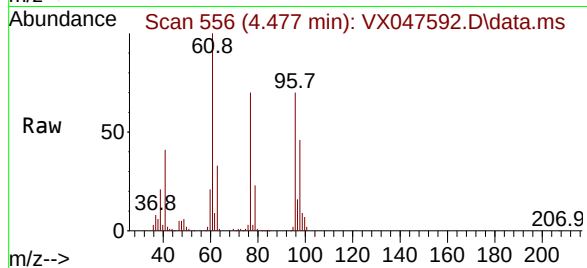
98 64.3 0.0 127.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#28

Bromochloromethane

Concen: 46.586 ug/l

RT: 4.879 min Scan# 622

Delta R.T. -0.012 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

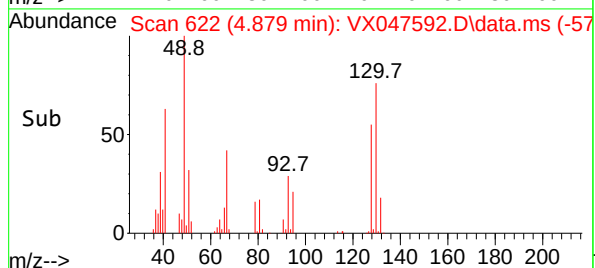
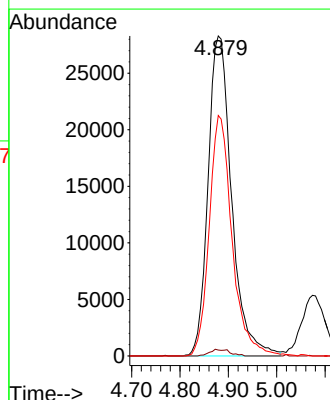
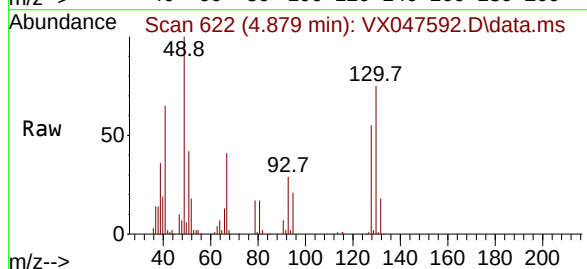
Tgt Ion: 49 Resp: 95782

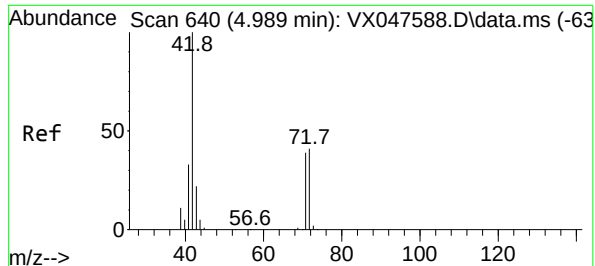
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.2

130 72.9 57.8 86.8





#29

Tetrahydrofuran

Concen: 253.375 ug/l

RT: 4.983 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion: 42 Resp: 245392

Ion Ratio Lower Upper

42 100

72 42.7 34.2 51.2

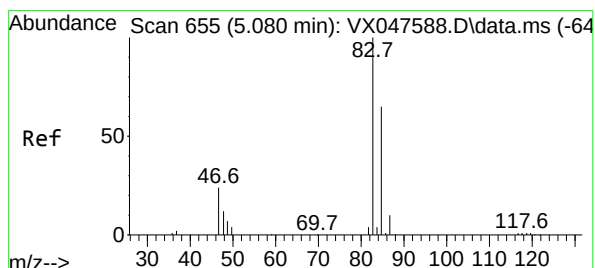
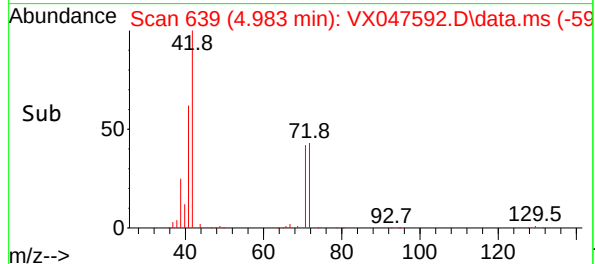
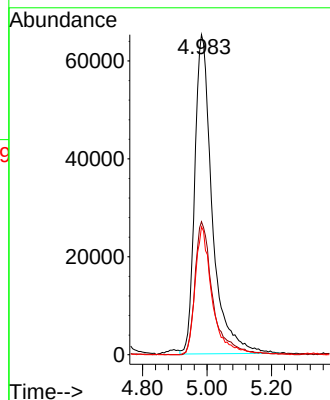
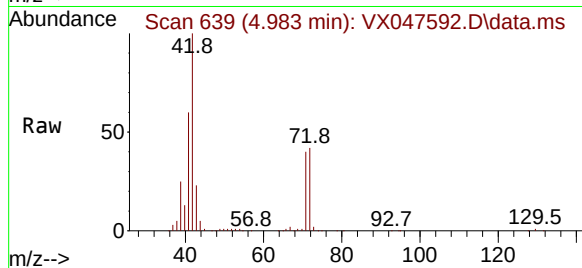
71 38.9 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

Chloroform

Concen: 48.739 ug/l

RT: 5.074 min Scan# 654

Delta R.T. -0.006 min

Lab File: VX047592.D

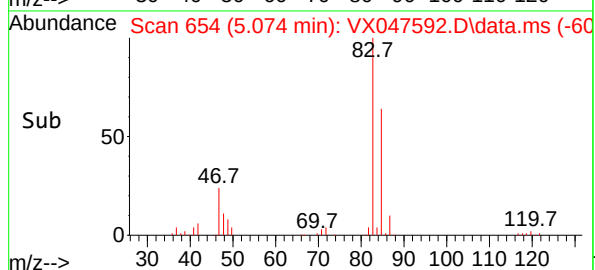
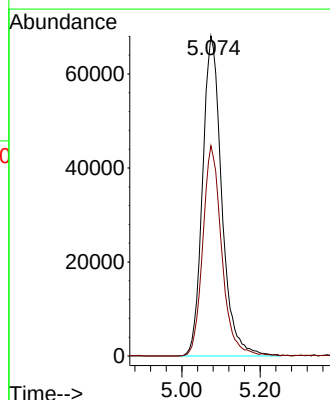
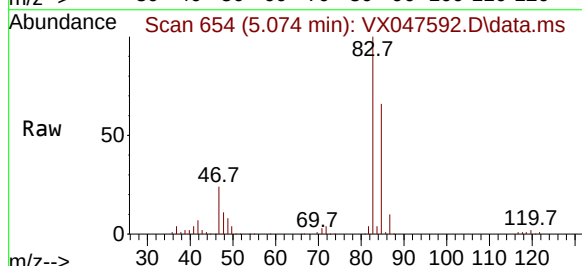
Acq: 16 Sep 2025 13:35

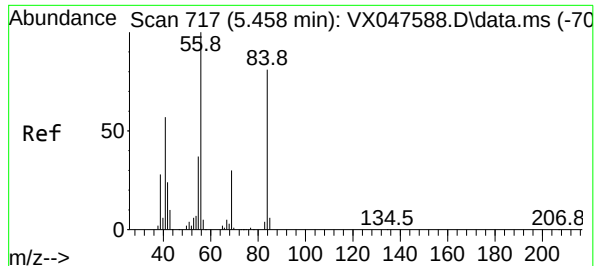
Tgt Ion: 83 Resp: 231954

Ion Ratio Lower Upper

83 100

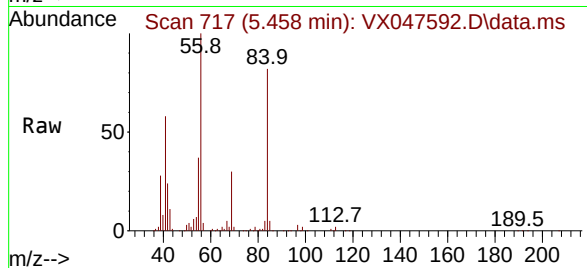
85 65.6 51.8 77.6





#31
Cyclohexane
Concen: 45.999 ug/l
RT: 5.458 min Scan# 717
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

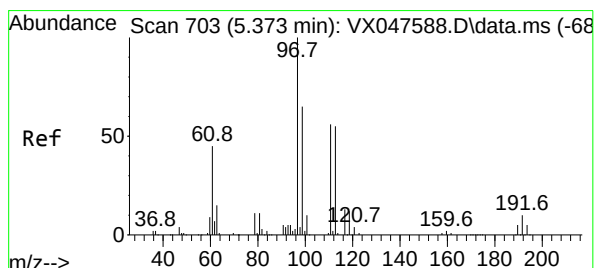
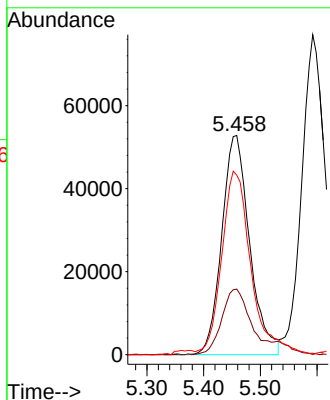
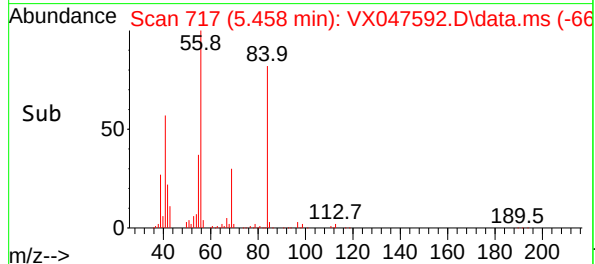
Instrument :
MSVOA_X
ClientSampleId :
ICVX091625



Tgt Ion: 56 Resp: 180430
Ion Ratio Lower Upper
56 100
69 29.6 23.8 35.8
84 80.3 64.6 97.0

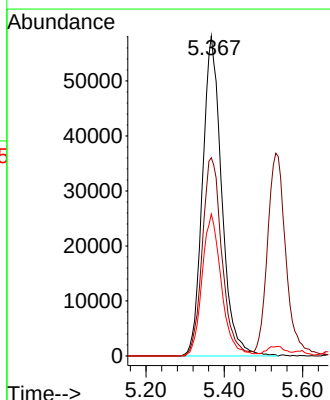
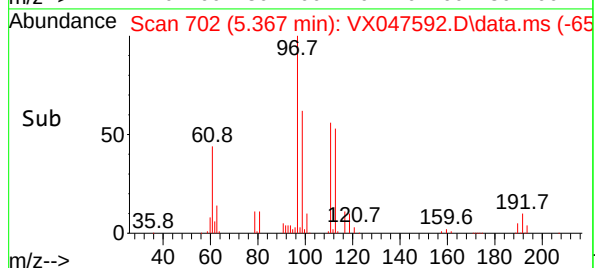
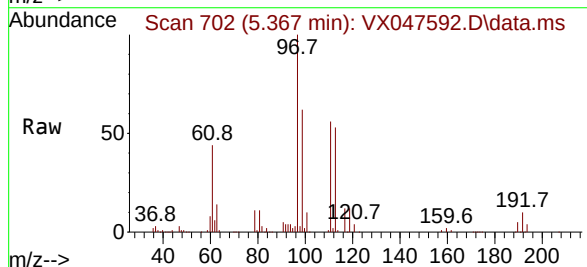
Manual Integrations
APPROVED

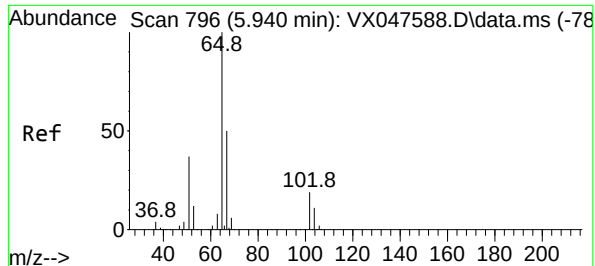
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#32
1,1,1-Trichloroethane
Concen: 48.978 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 97 Resp: 197711
Ion Ratio Lower Upper
97 100
99 63.5 50.6 76.0
61 44.6 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 45.550 ug/l

RT: 5.934 min Scan# 795

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion: 65 Resp: 135209

Ion Ratio Lower Upper

65 100

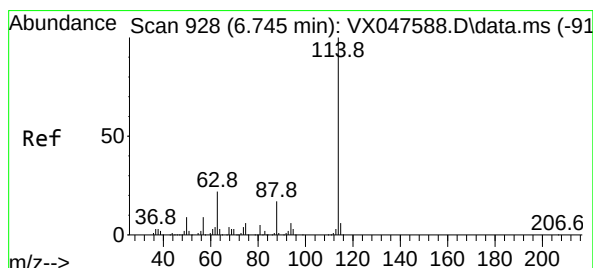
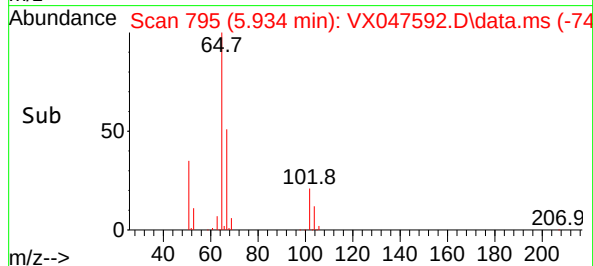
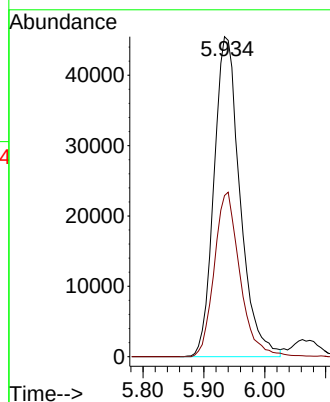
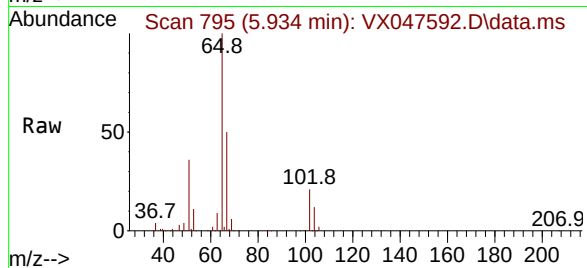
67 50.8 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

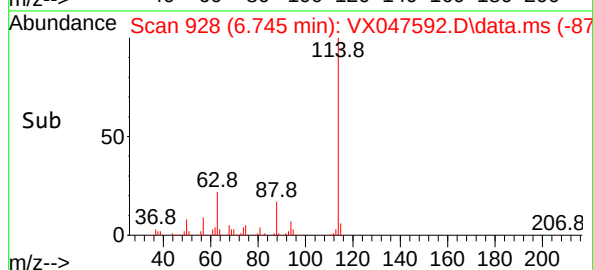
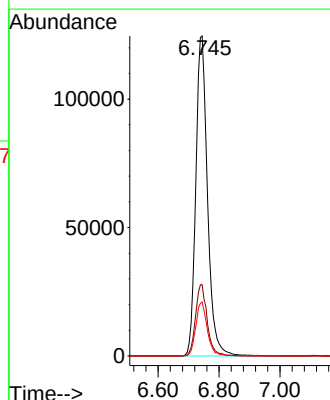
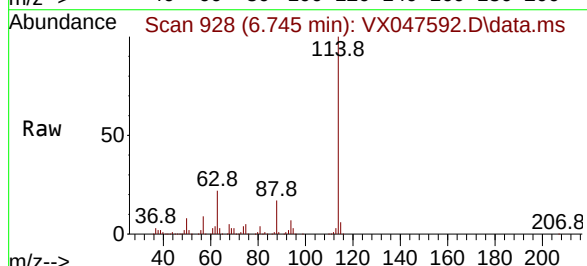
Tgt Ion:114 Resp: 331837

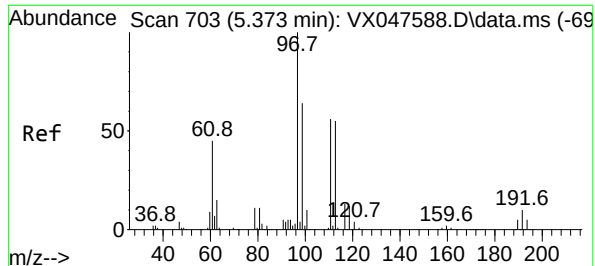
Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.0

88 16.8 0.0 34.2





#35

Dibromofluoromethane

Concen: 45.559 ug/l

RT: 5.367 min Scan# 703

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

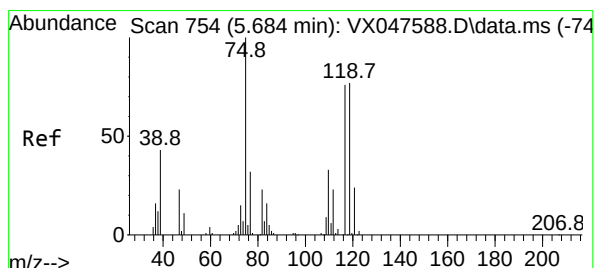
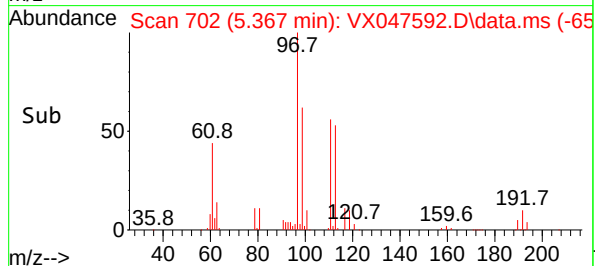
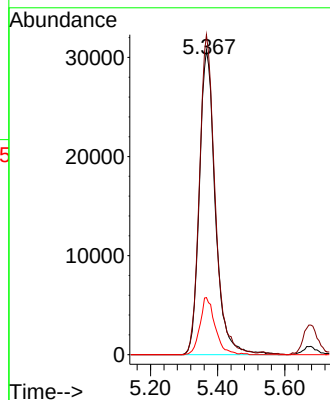
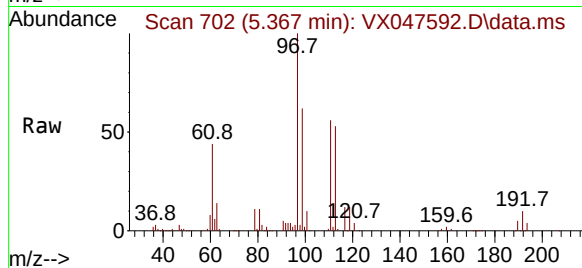
ICVX091625

Tgt Ion:	113	Resp:	101390
Ion	Ratio	Lower	Upper
113	100		
111	103.2	80.9	121.3
192	17.9	14.2	21.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#36

1,1-Dichloropropene

Concen: 46.663 ug/l

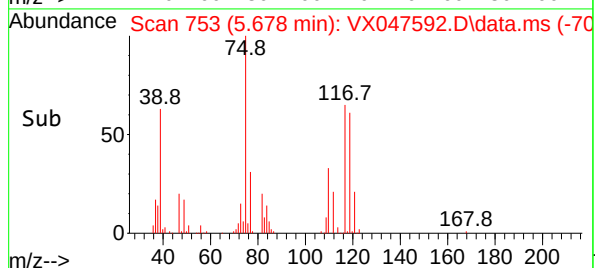
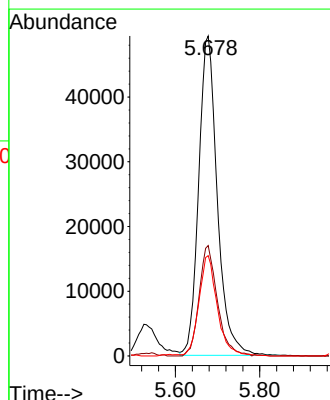
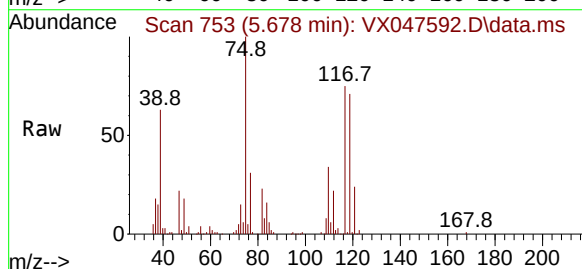
RT: 5.678 min Scan# 753

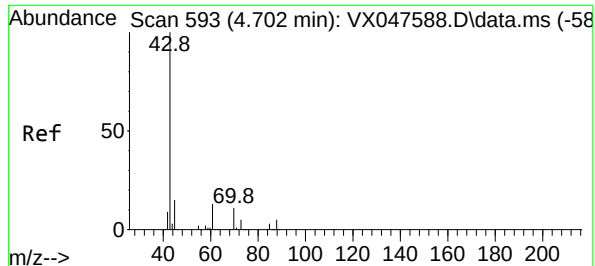
Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Tgt Ion:	75	Resp:	151745
Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.7	50.1
77	31.0	24.3	36.5





#37

Ethyl Acetate

Concen: 49.241 ug/l

RT: 4.690 min Scan# 593

Delta R.T. -0.012 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

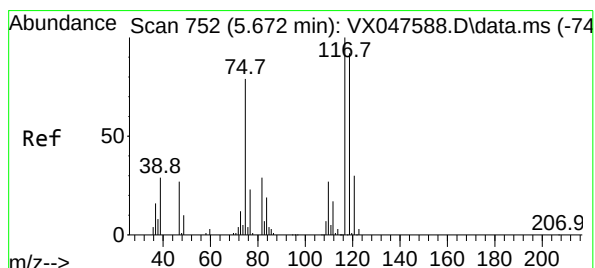
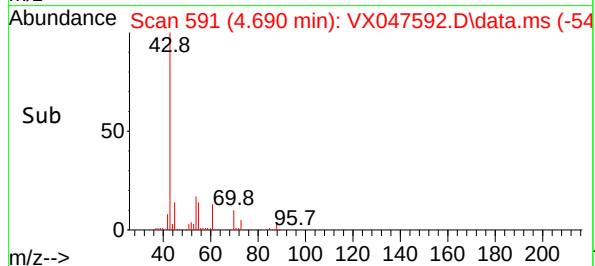
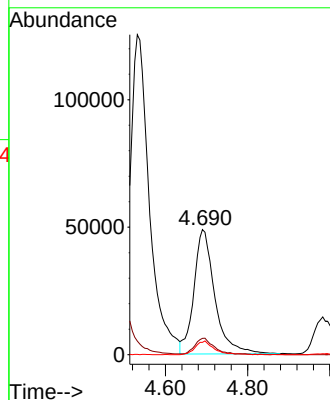
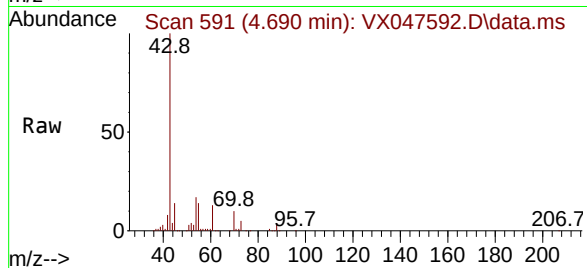
ICVVX091625

Tgt Ion:	43	Resp:	171454
Ion	Ratio	Lower	Upper
43	100		
61	10.8	9.8	14.8
70	9.8	7.9	11.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#38

Carbon Tetrachloride

Concen: 46.935 ug/l

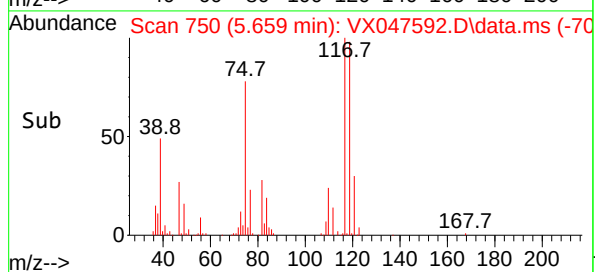
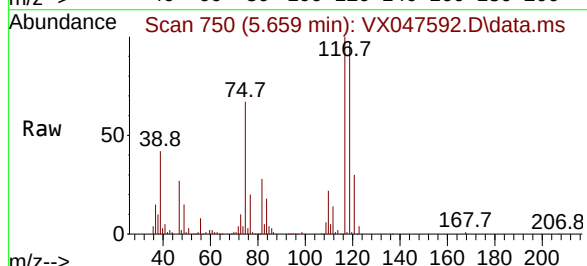
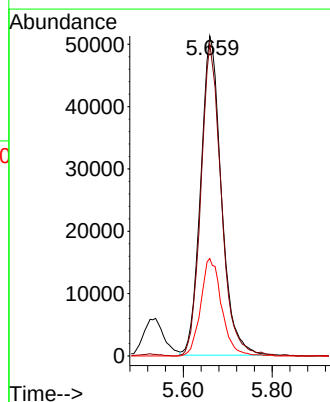
RT: 5.659 min Scan# 750

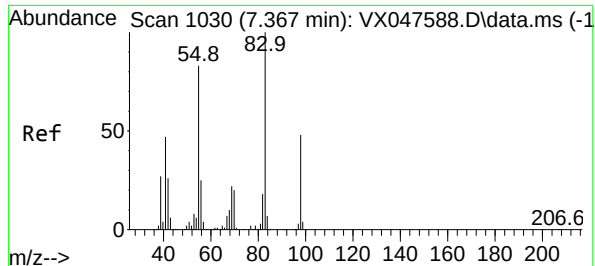
Delta R.T. -0.012 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Tgt Ion:	117	Resp:	165834
Ion	Ratio	Lower	Upper
117	100		
119	97.6	73.4	110.2
121	30.5	23.8	35.6





#39

Methylcyclohexane

Concen: 48.597 ug/l

RT: 7.360 min Scan# 1030

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion: 83 Resp: 179392

Ion Ratio Lower Upper

83 100

55 81.0 66.4 99.6

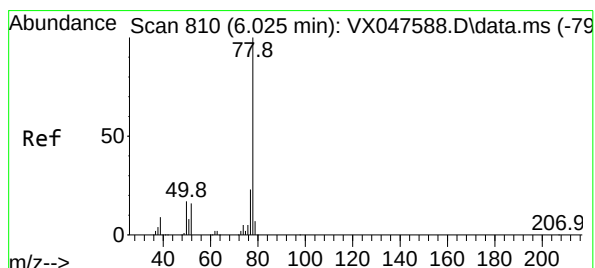
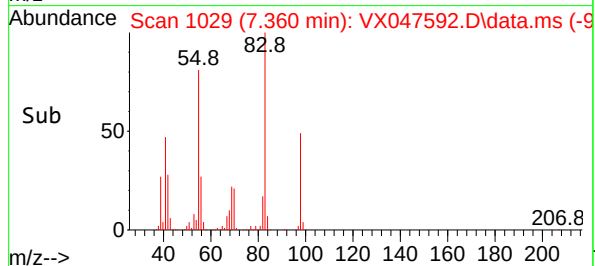
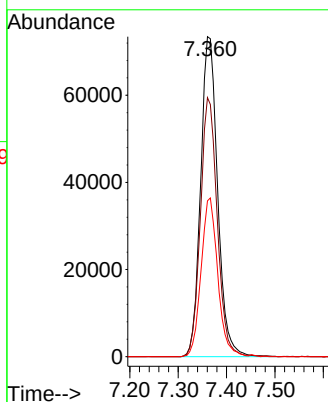
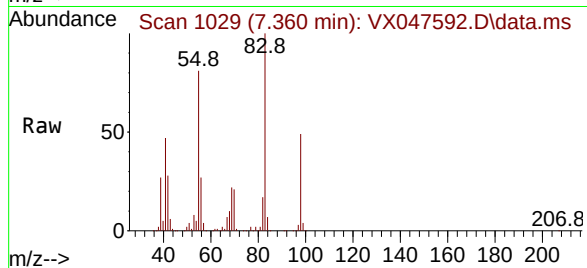
98 48.7 38.1 57.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#40

Benzene

Concen: 47.357 ug/l

RT: 6.019 min Scan# 809

Delta R.T. -0.006 min

Lab File: VX047592.D

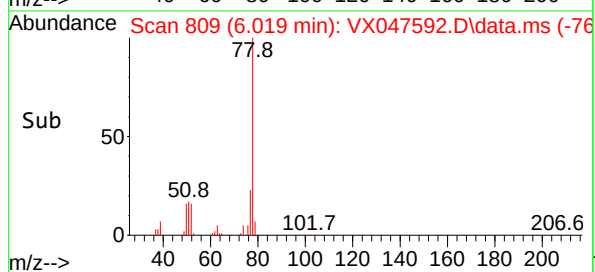
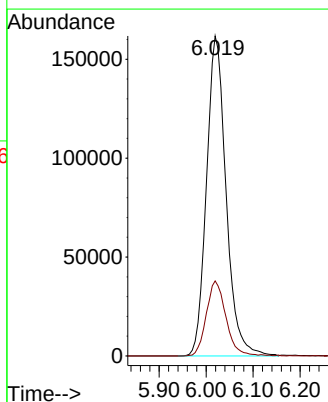
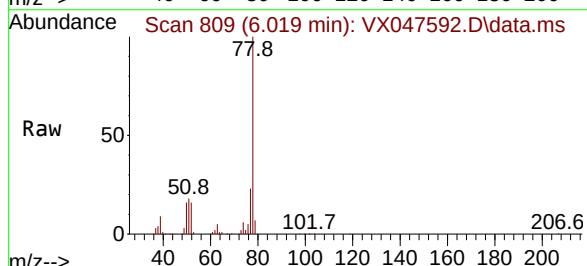
Acq: 16 Sep 2025 13:35

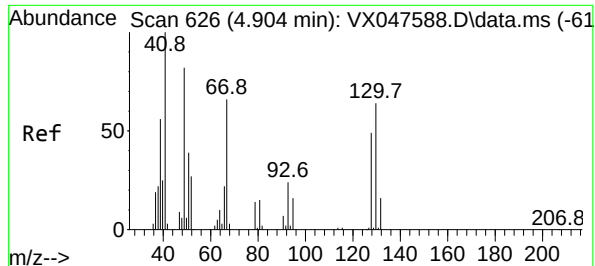
Tgt Ion: 78 Resp: 467748

Ion Ratio Lower Upper

78 100

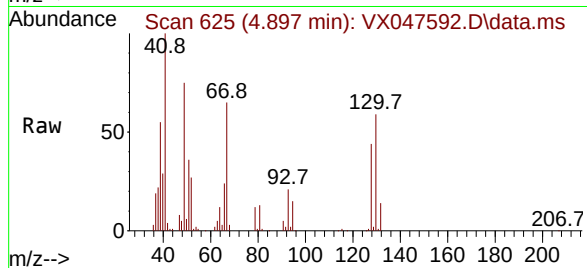
77 23.5 18.8 28.2





#41
Methacrylonitrile
Concen: 50.490 ug/l
RT: 4.897 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

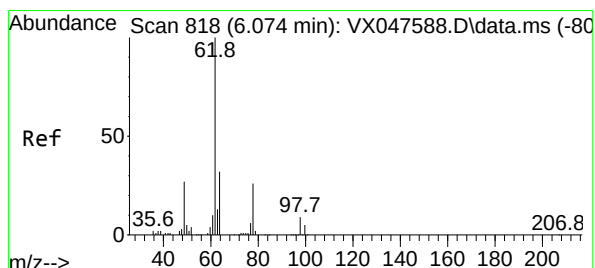
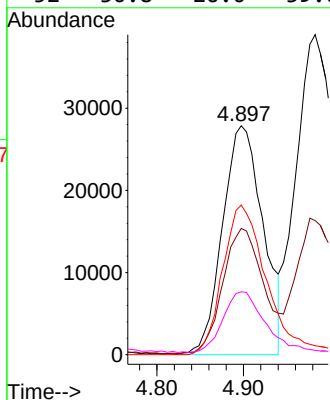
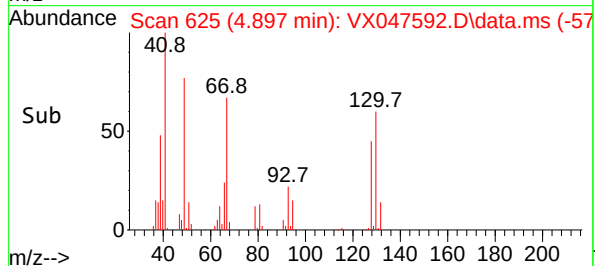
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



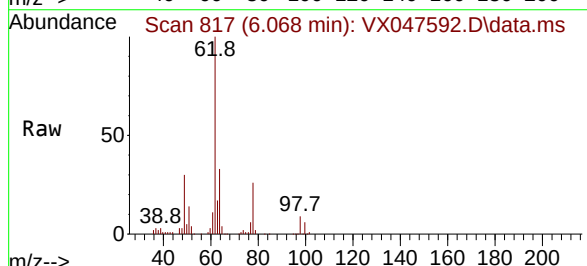
Tgt Ion: 41 Resp: 90758
Ion Ratio Lower Upper
41 100
39 55.9 43.3 64.9
67 72.5 58.6 87.8
52 30.8 26.0 39.0

Manual Integrations
APPROVED

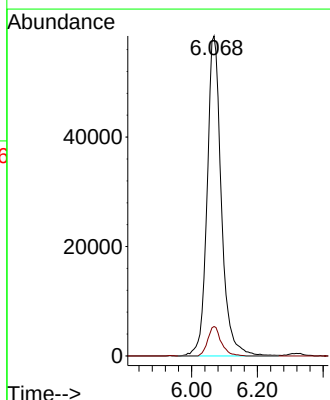
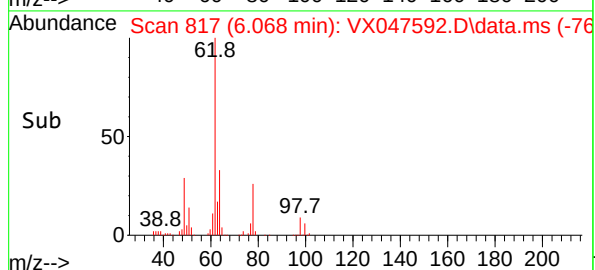
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

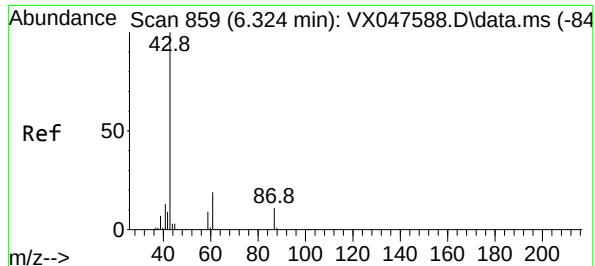


#42
1,2-Dichloroethane
Concen: 46.867 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35



Tgt Ion: 62 Resp: 176131
Ion Ratio Lower Upper
62 100
98 8.7 0.0 17.0





#43

Isopropyl Acetate

Concen: 49.136 ug/l

RT: 6.318 min Scan# 81

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

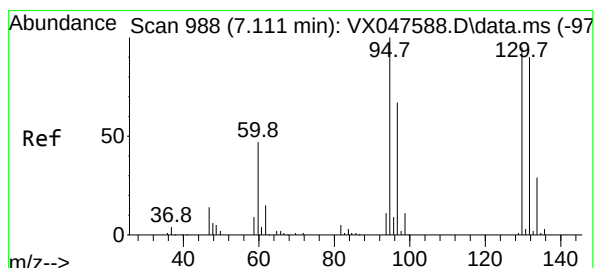
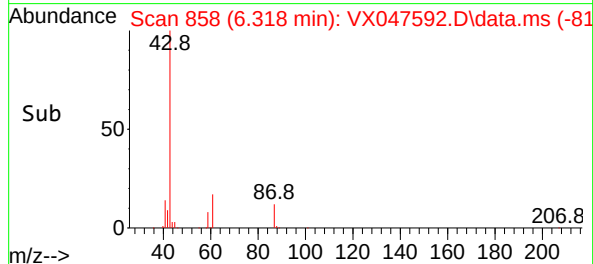
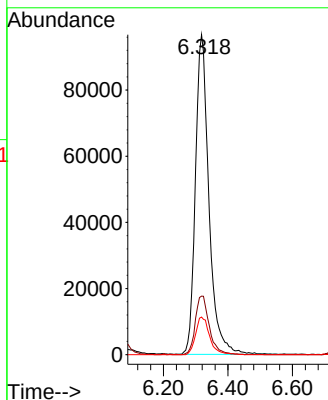
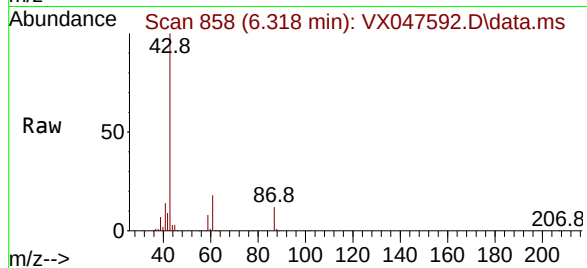
ICVVX091625

Tgt Ion:	43	Resp:	28059
Ion Ratio	Lower	Upper	
43	100		
61	19.1	15.2	22.8
87	12.2	9.6	14.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#44

Trichloroethene

Concen: 48.037 ug/l

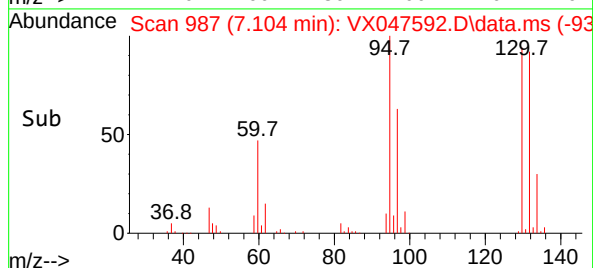
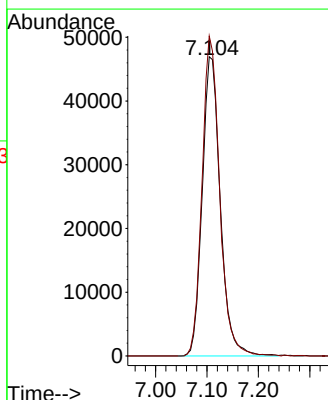
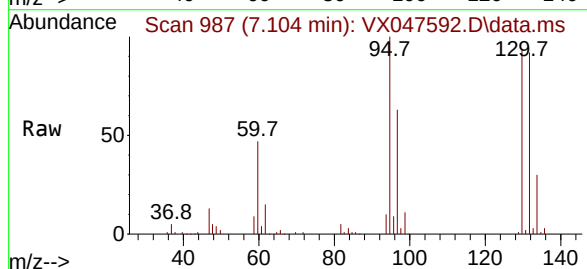
RT: 7.104 min Scan# 987

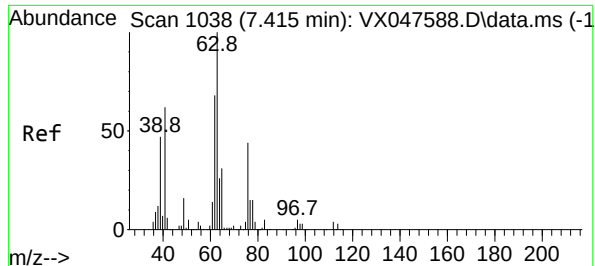
Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Tgt Ion:	130	Resp:	114708
Ion Ratio	Lower	Upper	
130	100		
95	107.0	0.0	210.8





#45

1,2-Dichloropropane

Concen: 48.053 ug/l

RT: 7.409 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion: 63 Resp: 12153

Ion Ratio Lower Upper

63 100

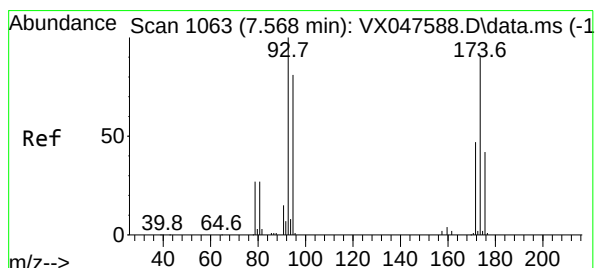
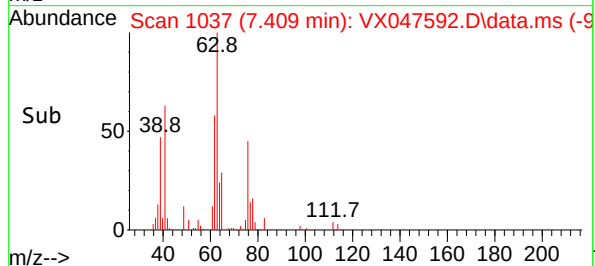
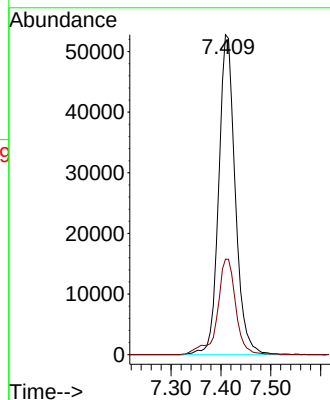
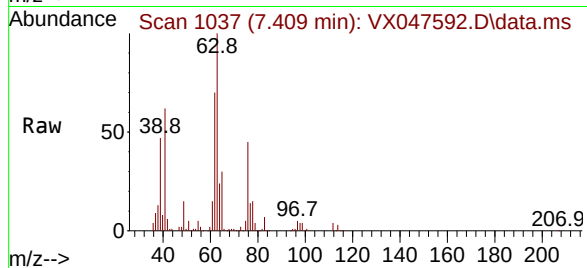
65 29.8 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#46

Dibromomethane

Concen: 47.976 ug/l

RT: 7.562 min Scan# 1062

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

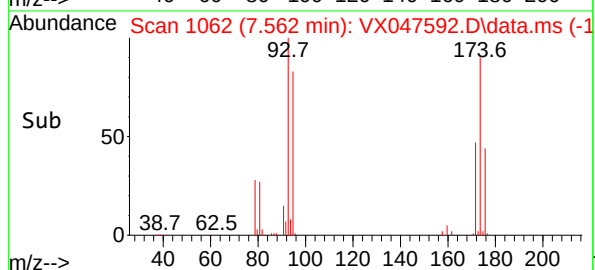
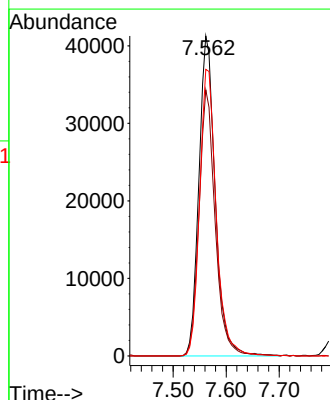
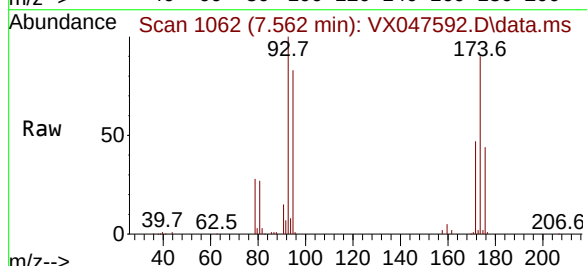
Tgt Ion: 93 Resp: 88297

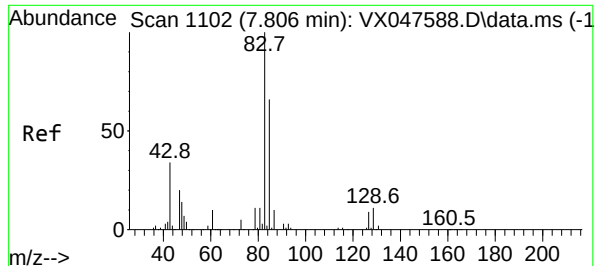
Ion Ratio Lower Upper

93 100

95 82.3 65.0 97.6

174 91.3 71.6 107.4





#47

Bromodichloromethane

Concen: 48.769 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

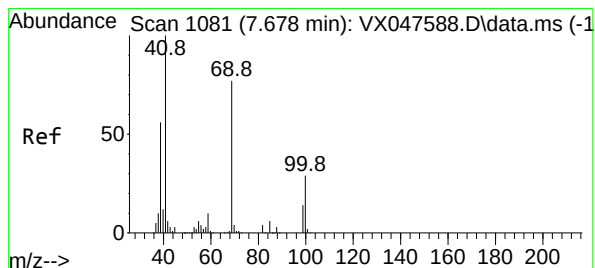
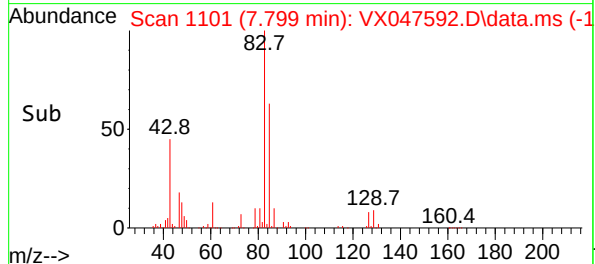
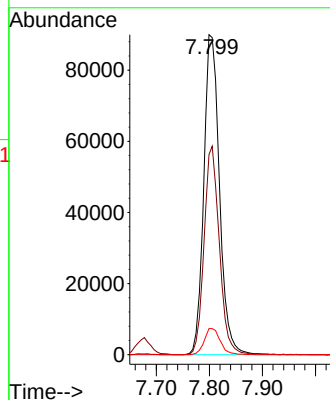
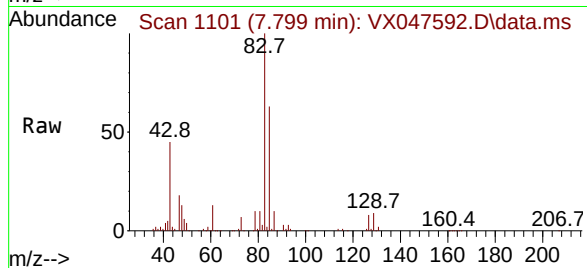
ICVX091625

Tgt Ion:	83	Resp:	185219
Ion	Ratio	Lower	Upper
83	100		
85	62.5	52.5	78.7
127	8.1	6.9	10.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#48

Methyl methacrylate

Concen: 49.757 ug/l

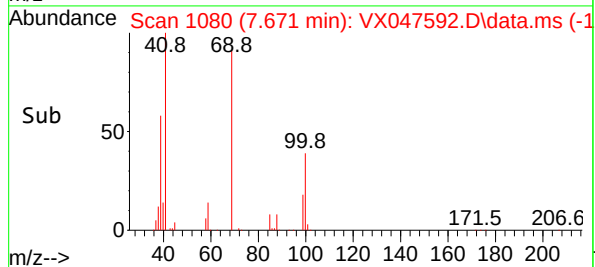
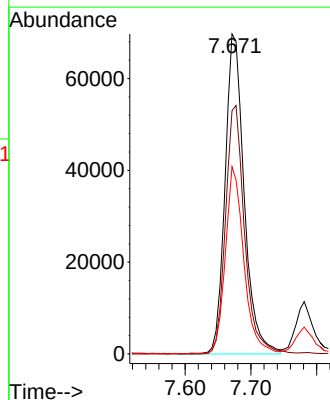
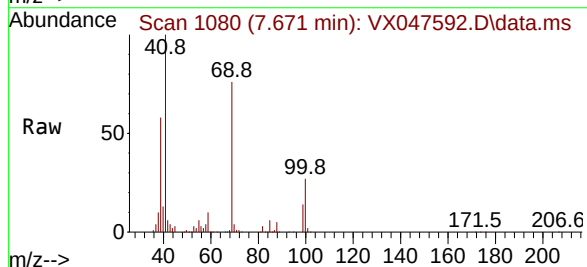
RT: 7.671 min Scan# 1080

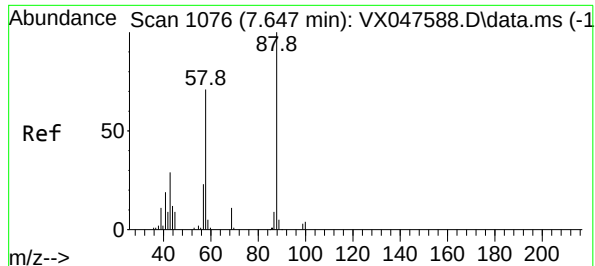
Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Tgt Ion:	41	Resp:	141532
Ion	Ratio	Lower	Upper
41	100		
69	77.1	61.4	92.2
39	56.4	45.8	68.6





#49

1,4-Dioxane

Concen: 1089.520 ug/l

RT: 7.641 min Scan# 1076

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

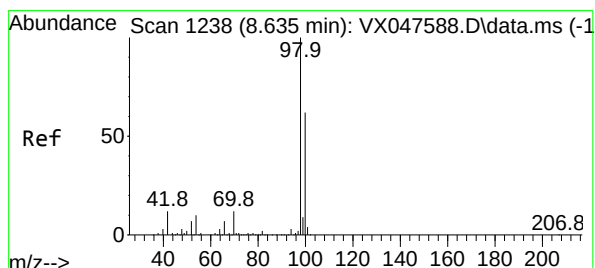
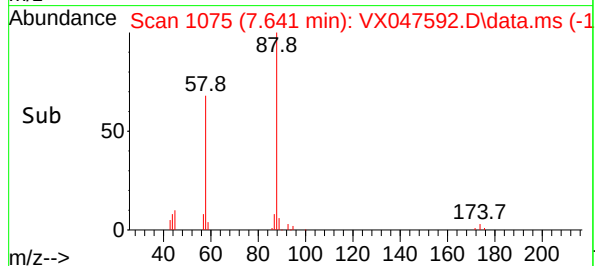
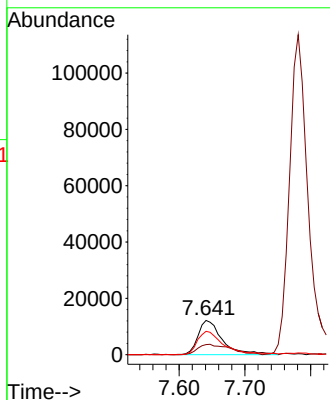
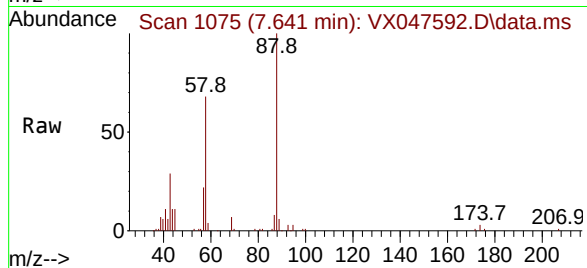
ICVX091625

Tgt Ion:	88	Resp:	31320
Ion	Ratio	Lower	Upper
88	100		
43	40.9	30.2	45.2
58	74.1	59.5	89.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#50

Toluene-d8

Concen: 46.411 ug/l

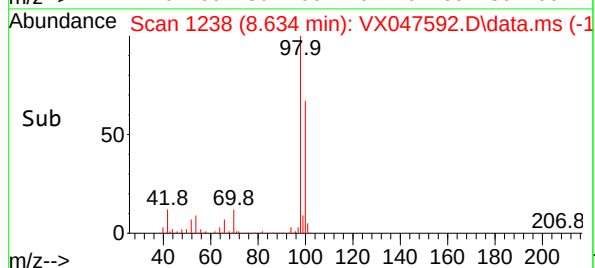
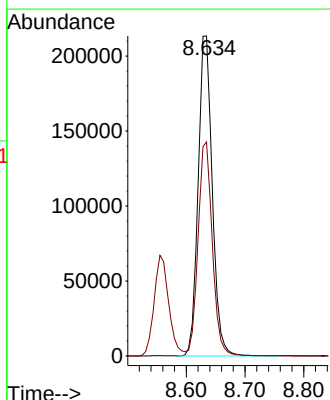
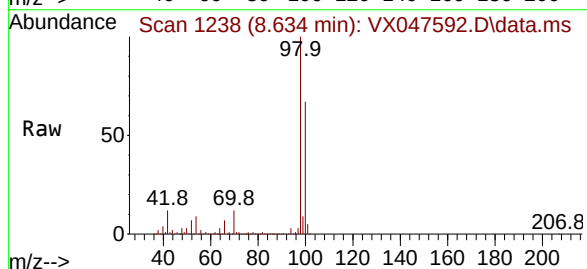
RT: 8.634 min Scan# 1238

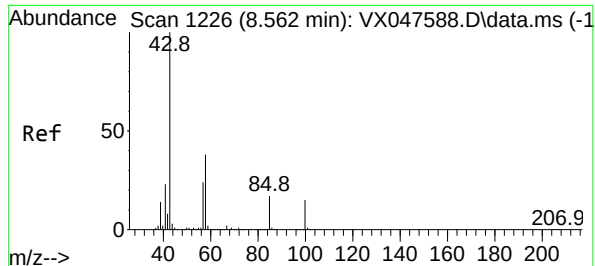
Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

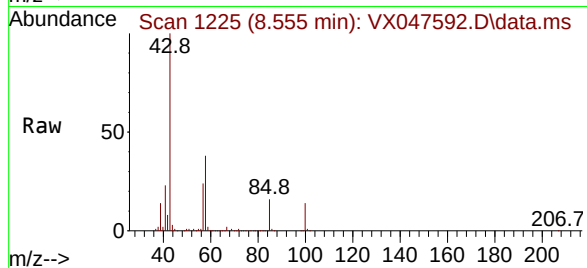
Tgt Ion:	98	Resp:	357393
Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 255.752 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

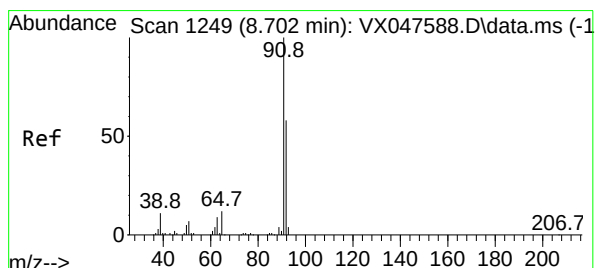
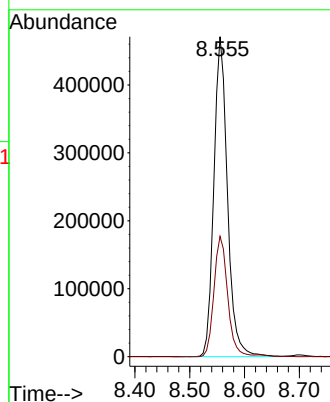
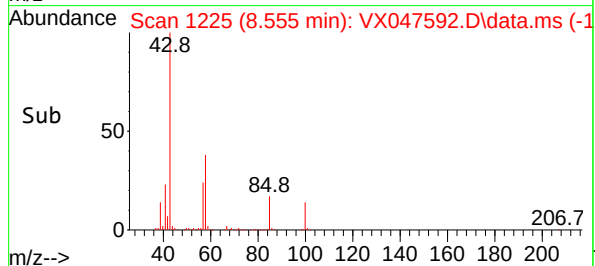
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion: 43 Resp: 80975
Ion Ratio Lower Upper
43 100
58 37.9 30.3 45.5

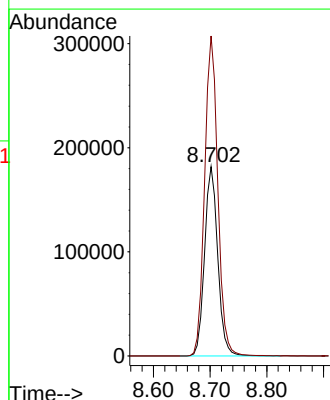
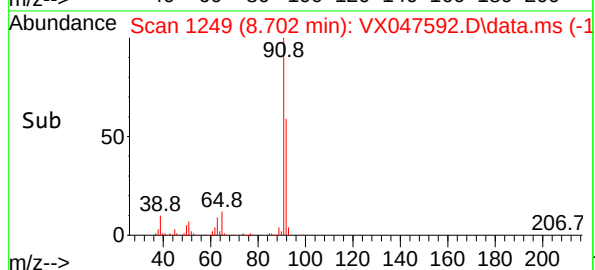
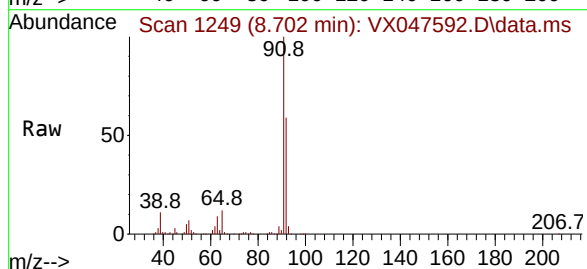
Manual Integrations
APPROVED

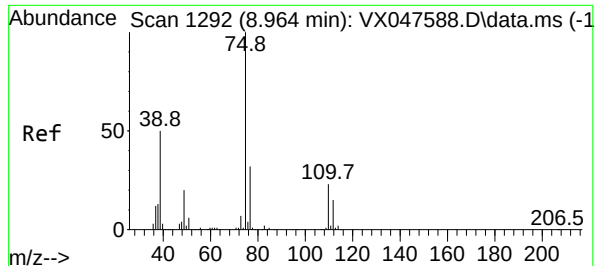
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#52
Toluene
Concen: 48.130 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 92 Resp: 292879
Ion Ratio Lower Upper
92 100
91 169.4 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 49.527 ug/l

RT: 8.964 min Scan# 1191

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion: 75 Resp: 19186

Ion Ratio Lower Upper

75 100

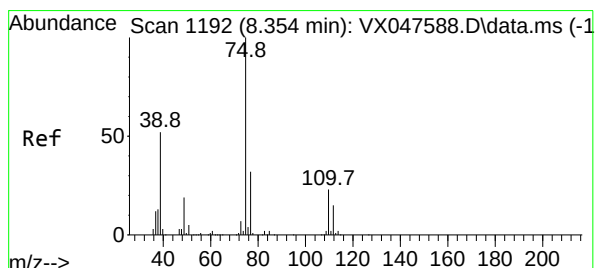
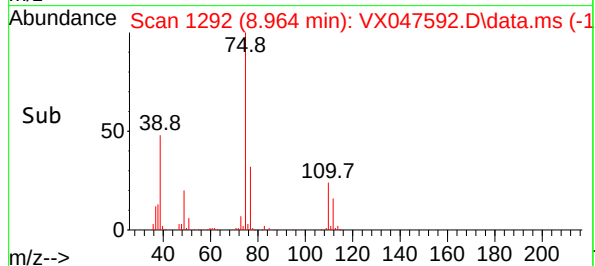
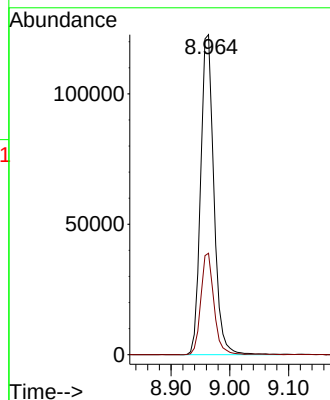
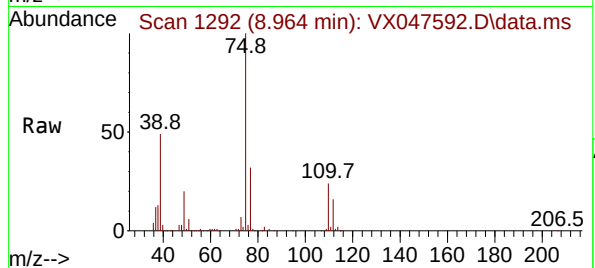
77 31.7 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#54

cis-1,3-Dichloropropene

Concen: 49.257 ug/l

RT: 8.348 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

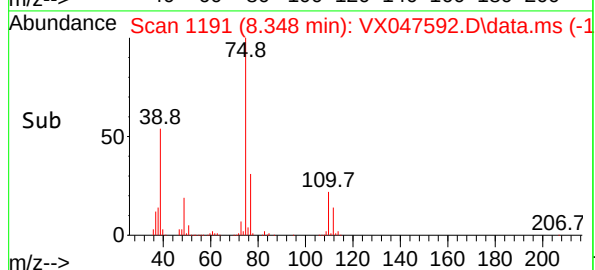
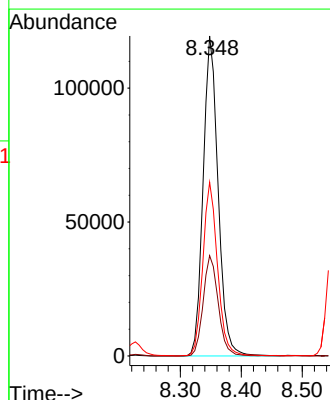
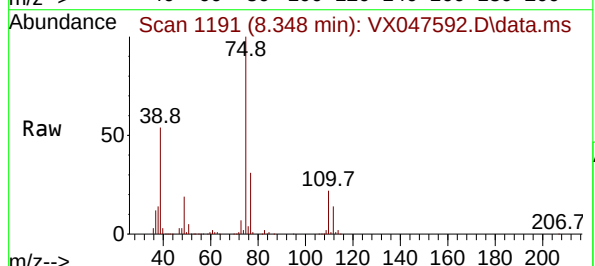
Tgt Ion: 75 Resp: 203954

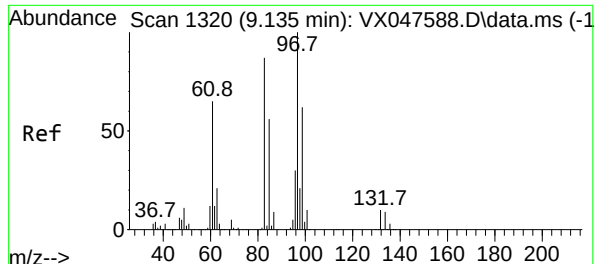
Ion Ratio Lower Upper

75 100

77 31.3 25.8 38.6

39 54.2 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 47.772 ug/l

RT: 9.134 min Scan# 112094

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

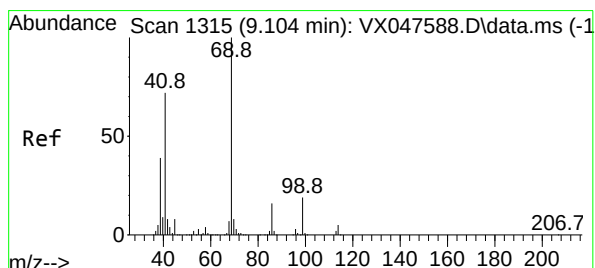
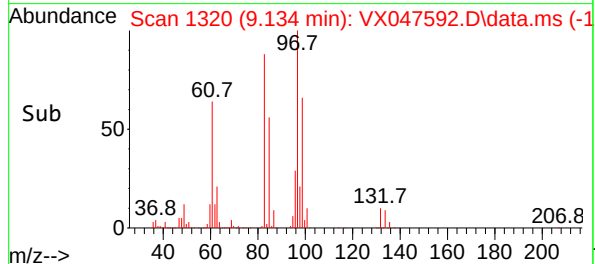
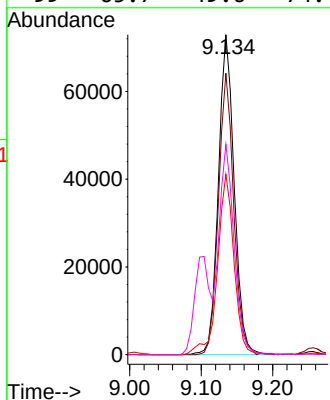
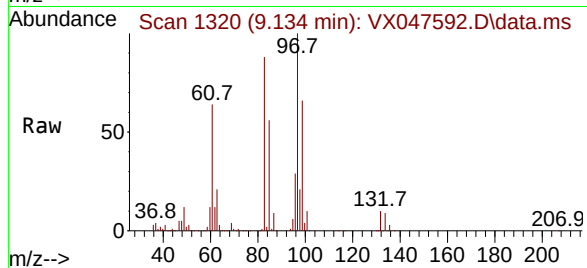
ICVX091625

Tgt Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.6	104.4
85	56.4	45.0	67.6
99	65.7	49.6	74.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#56

Ethyl methacrylate

Concen: 51.490 ug/l

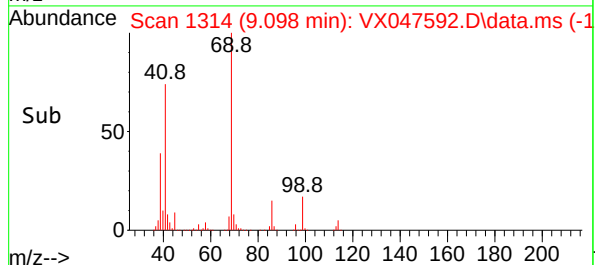
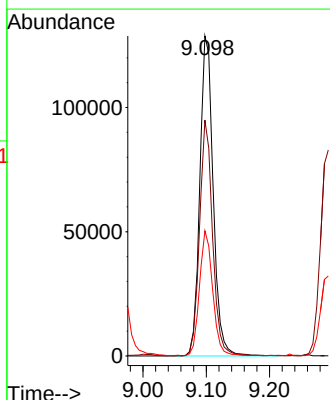
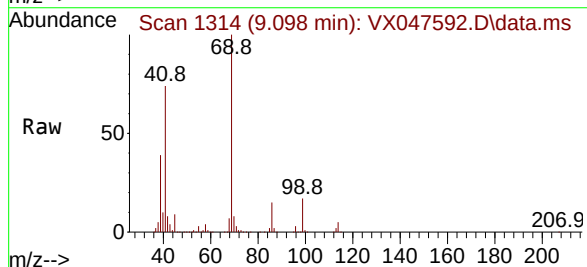
RT: 9.098 min Scan# 1314

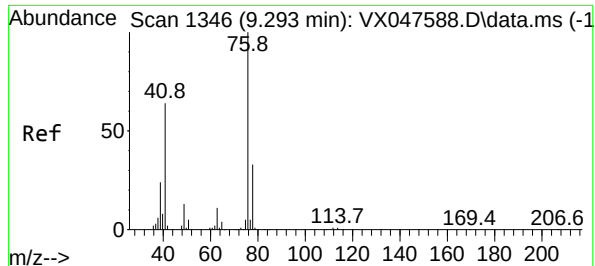
Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Tgt Ion	Ratio	Lower	Upper
69	100		
41	71.7	58.6	87.8
39	39.0	31.5	47.3





#57

1,3-Dichloropropane

Concen: 48.894 ug/l

RT: 9.293 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion: 76 Resp: 197079

Ion Ratio Lower Upper

76 100

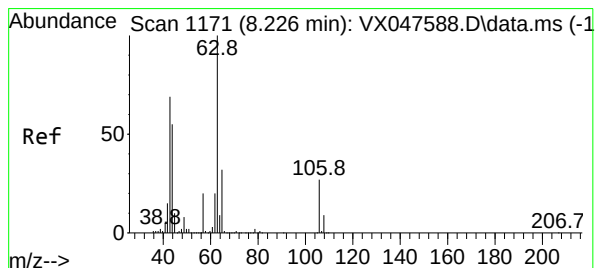
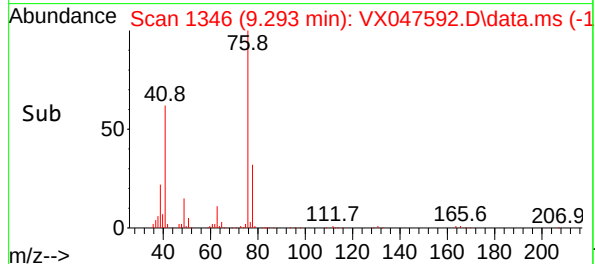
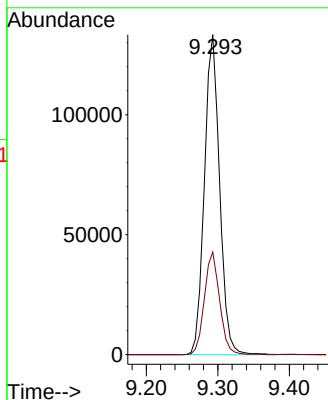
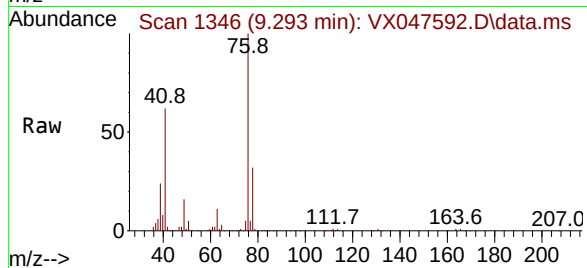
78 32.2 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#58

2-Chloroethyl Vinyl ether

Concen: 225.562 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX047592.D

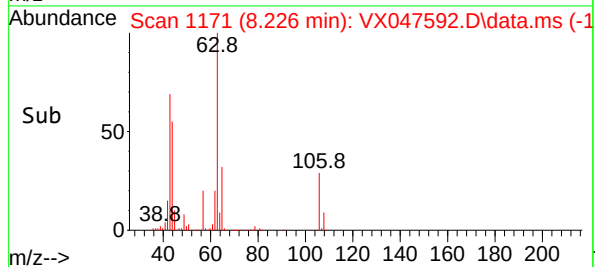
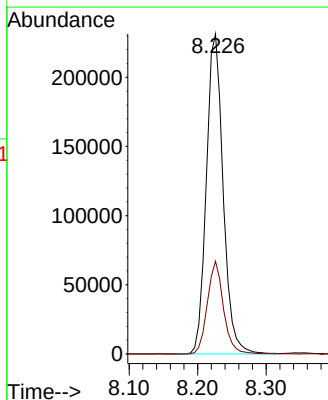
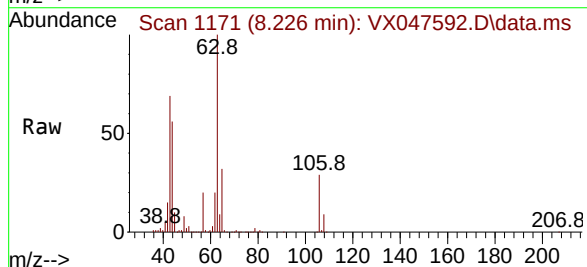
Acq: 16 Sep 2025 13:35

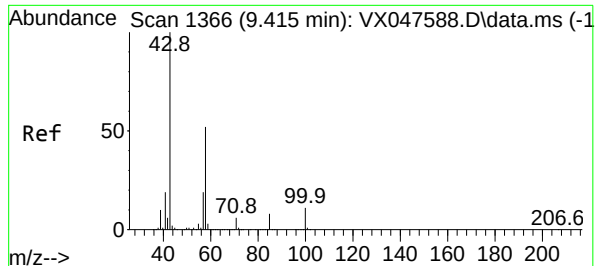
Tgt Ion: 63 Resp: 394205

Ion Ratio Lower Upper

63 100

106 27.8 21.9 32.9





#59

2-Hexanone

Concen: 253.126 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion: 43 Resp: 57559

Ion Ratio Lower Upper

43 100

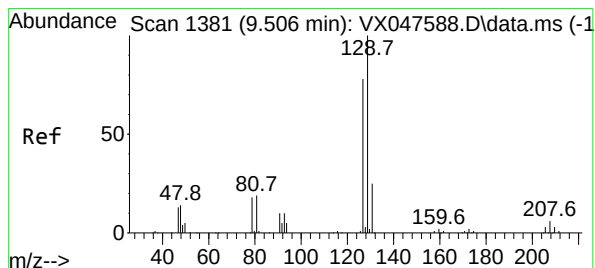
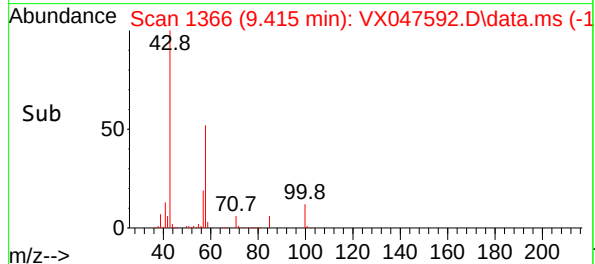
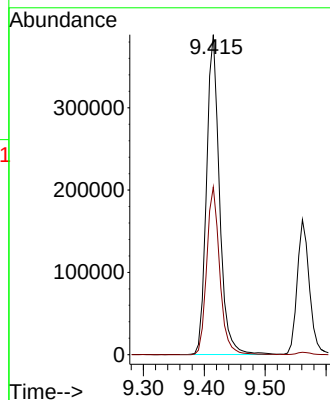
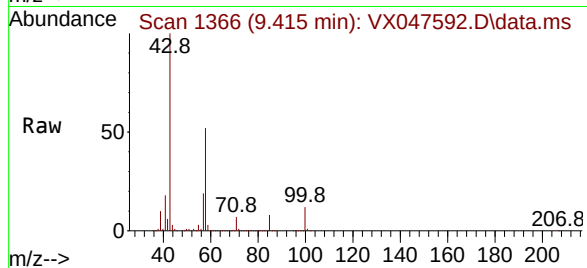
58 52.6 26.1 78.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#60

Dibromochloromethane

Concen: 49.824 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VX047592.D

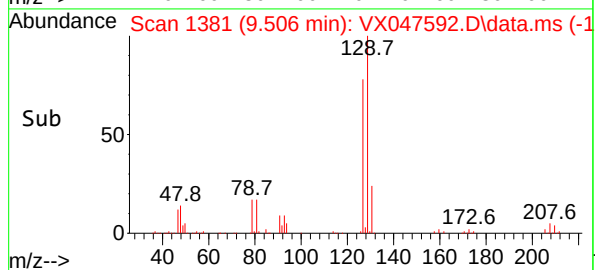
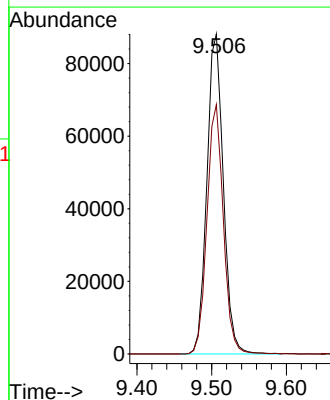
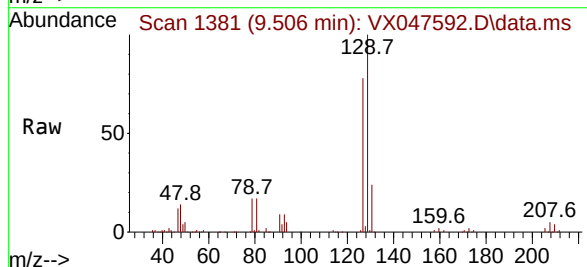
Acq: 16 Sep 2025 13:35

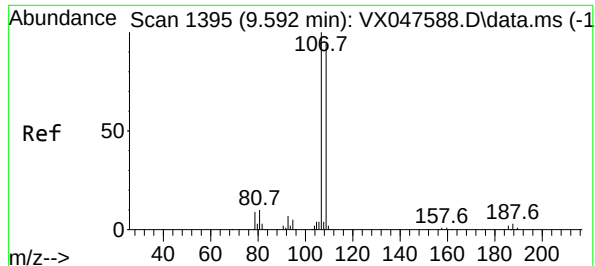
Tgt Ion:129 Resp: 134704

Ion Ratio Lower Upper

129 100

127 77.8 38.4 115.2





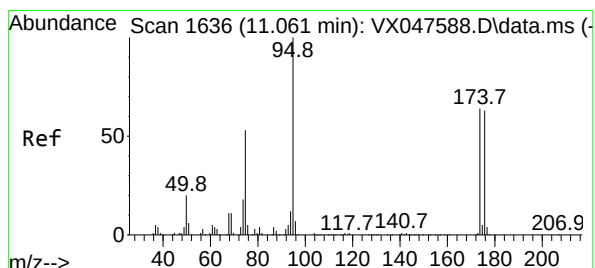
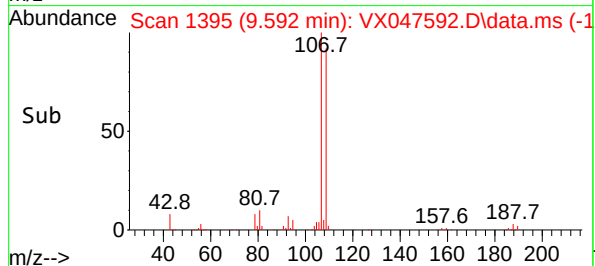
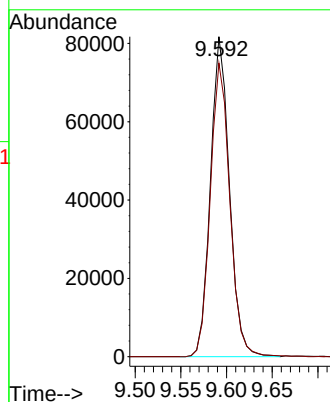
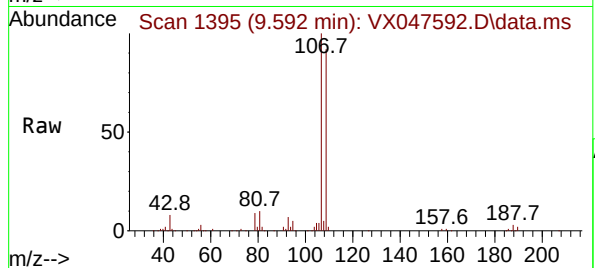
#61
1,2-Dibromoethane
Concen: 49.297 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 107 Resp: 11781
Ion Ratio Lower Upper
107 100
109 94.6 75.3 112.9

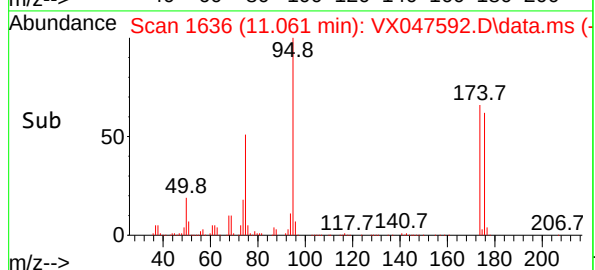
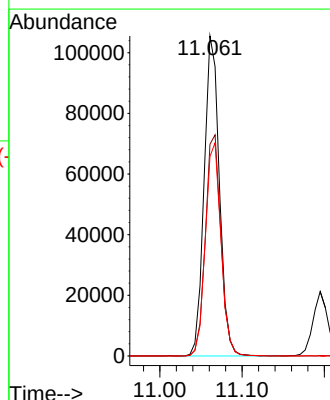
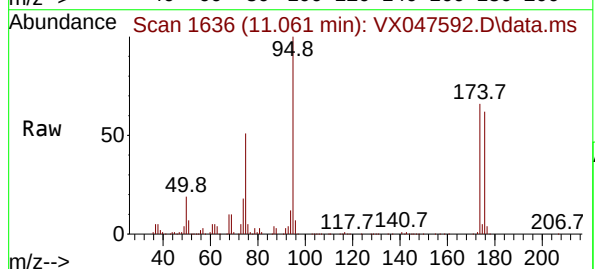
Manual Integrations
APPROVED

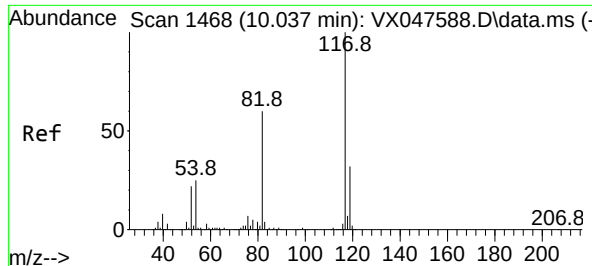
Reviewed By : John Carlone 09/17/2025
Supervised By : Mahesh Dadoda 09/18/2025



#62
4-Bromofluorobenzene
Concen: 46.520 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 95 Resp: 135957
Ion Ratio Lower Upper
95 100
174 70.3 0.0 141.6
176 68.0 0.0 138.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

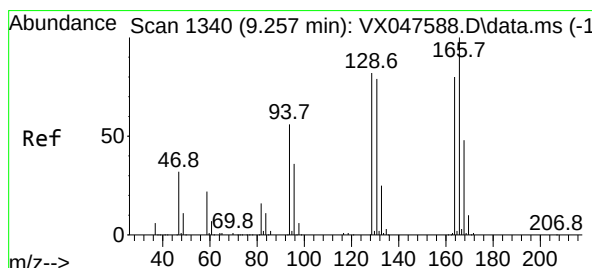
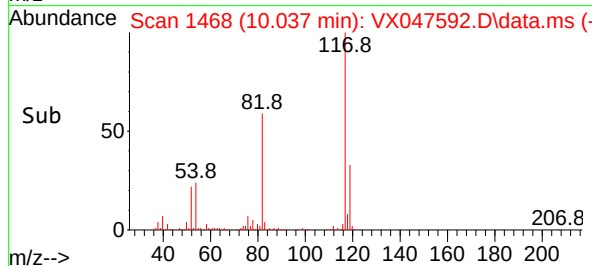
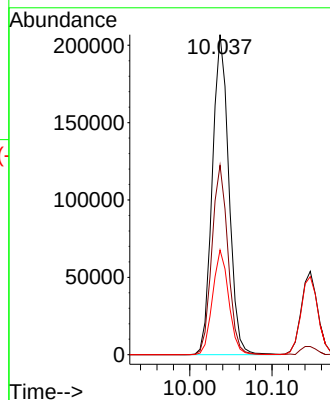
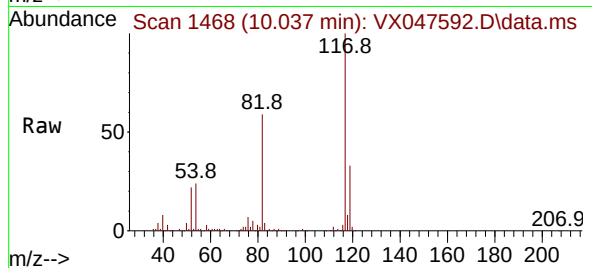
ICVVX091625

Tgt Ion:	117	Resp:	288660
Ion	Ratio	Lower	Upper
117	100		
82	59.2	47.8	71.6
119	32.7	25.2	37.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#64

Tetrachloroethene

Concen: 48.296 ug/l

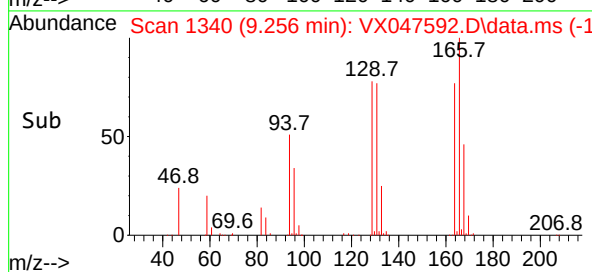
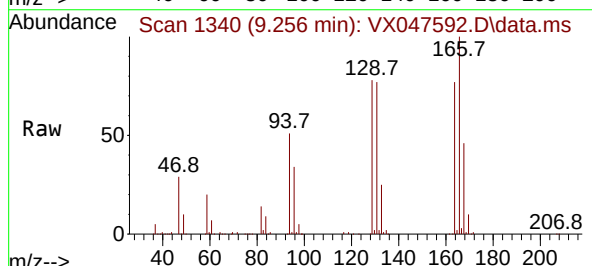
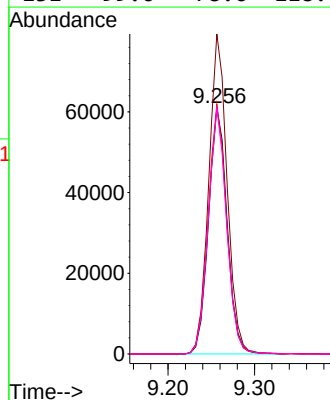
RT: 9.256 min Scan# 1340

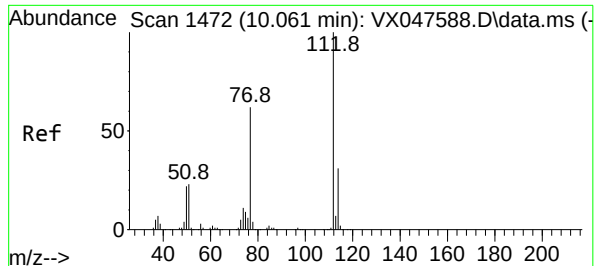
Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Tgt Ion:	164	Resp:	90881
Ion	Ratio	Lower	Upper
164	100		
166	129.8	100.2	150.2
129	101.3	81.8	122.6
131	99.6	78.6	118.0





#65

Chlorobenzene

Concen: 48.549 ug/l

RT: 10.061 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion:112 Resp: 31837

Ion Ratio Lower Upper

112 100

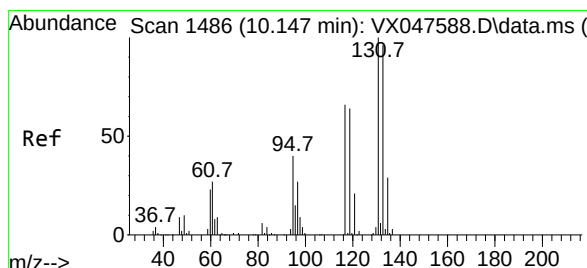
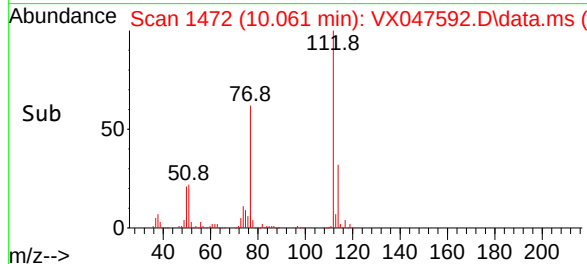
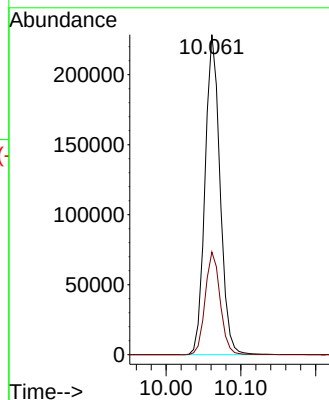
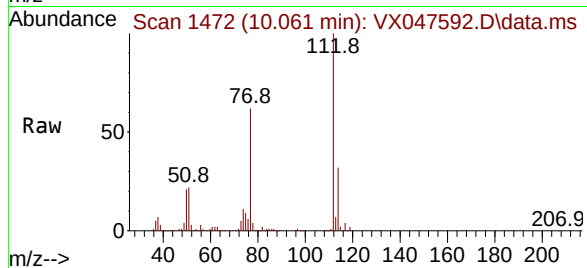
114 32.1 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 48.794 ug/l

RT: 10.146 min Scan# 1486

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

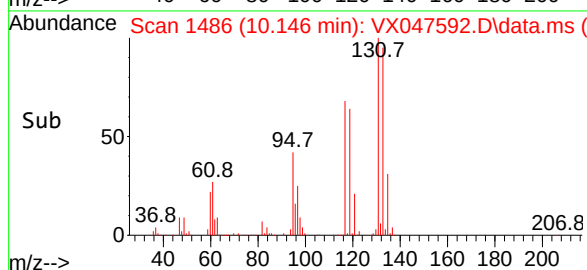
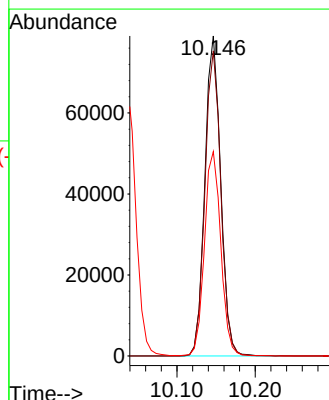
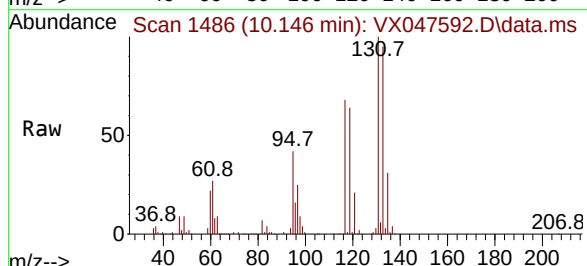
Tgt Ion:131 Resp: 110416

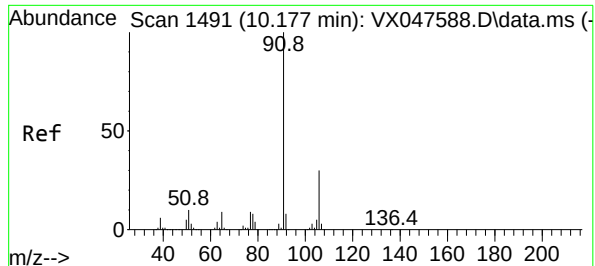
Ion Ratio Lower Upper

131 100

133 96.3 47.3 142.0

119 66.3 32.0 96.0





#67

Ethyl Benzene

Concen: 49.813 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion: 91 Resp: 563634

Ion Ratio Lower Upper

91 100

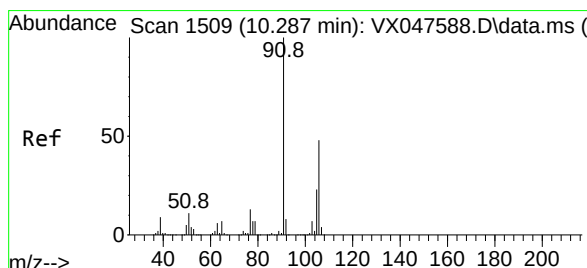
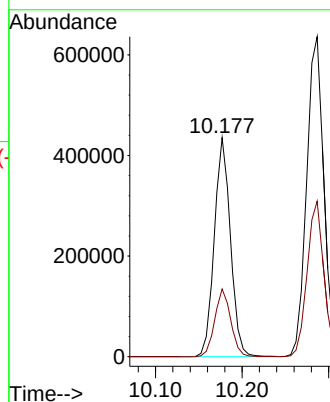
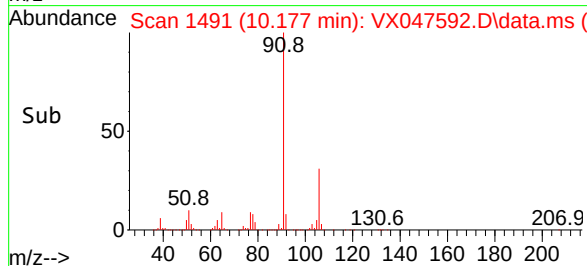
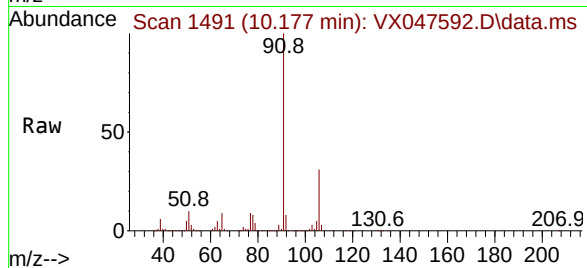
106 30.9 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#68

m/p-Xylenes

Concen: 98.956 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX047592.D

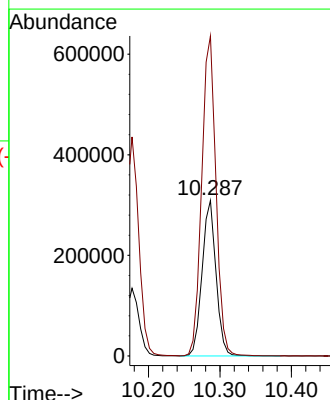
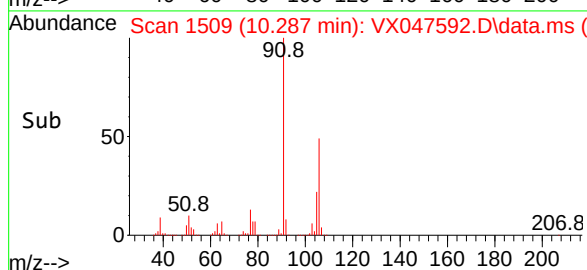
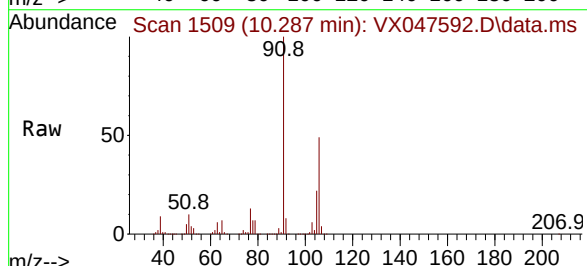
Acq: 16 Sep 2025 13:35

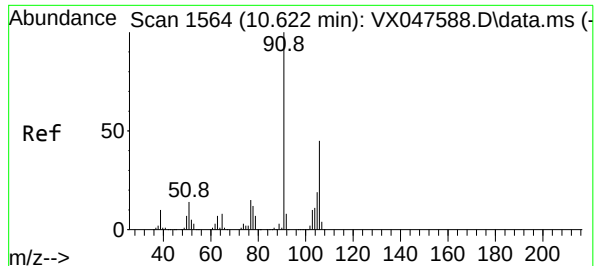
Tgt Ion:106 Resp: 416757

Ion Ratio Lower Upper

106 100

91 211.1 167.8 251.8





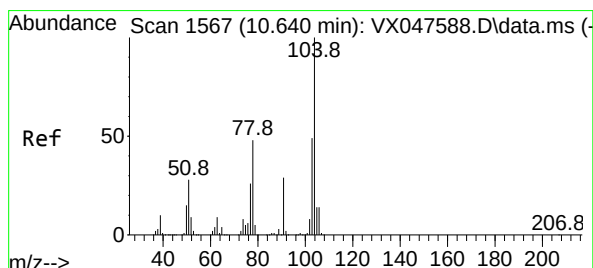
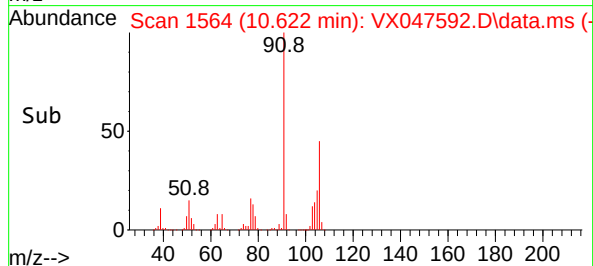
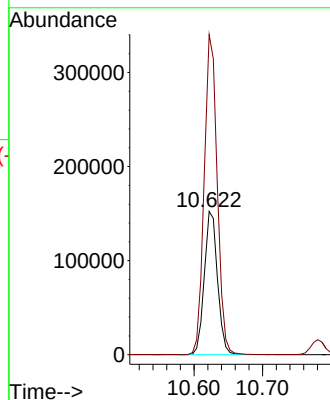
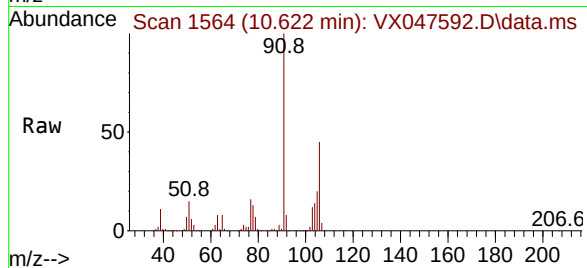
#69
o-Xylene
Concen: 50.159 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVX091625

Tgt Ion:106 Resp: 20432
Ion Ratio Lower Upper
106 100
91 221.0 111.1 333.4

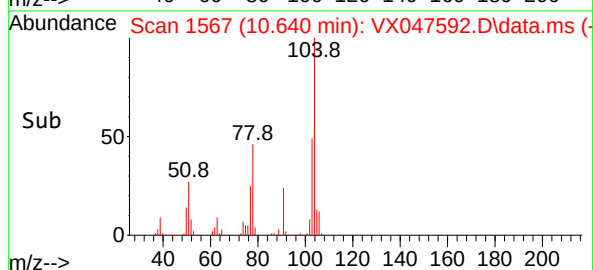
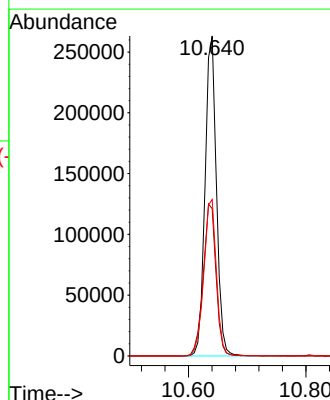
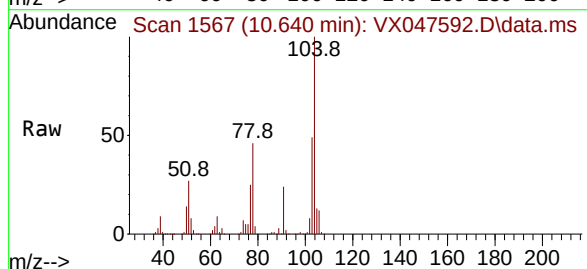
Manual Integrations
APPROVED

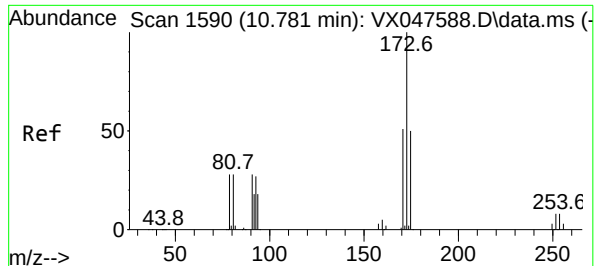
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#70
Styrene
Concen: 49.536 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

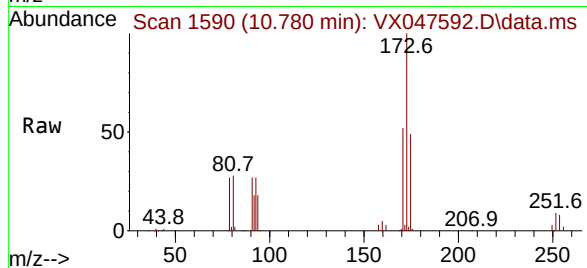
Tgt Ion:104 Resp: 353567
Ion Ratio Lower Upper
104 100
78 53.4 43.1 64.7
103 54.3 43.1 64.7





#71
Bromoform
Concen: 51.207 ug/l
RT: 10.780 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

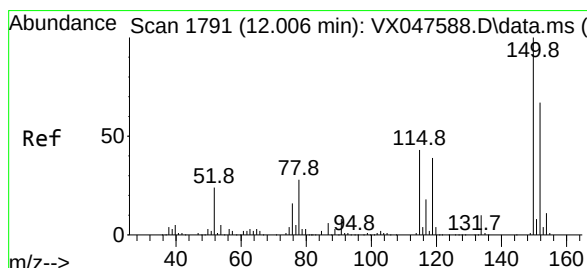
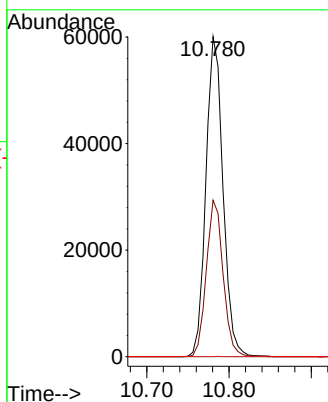
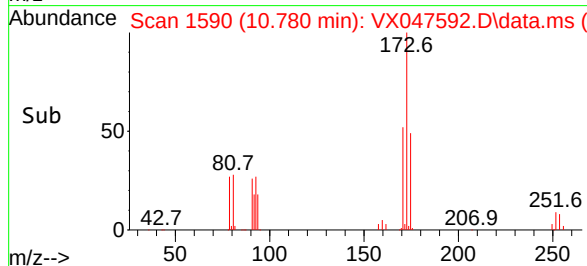
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



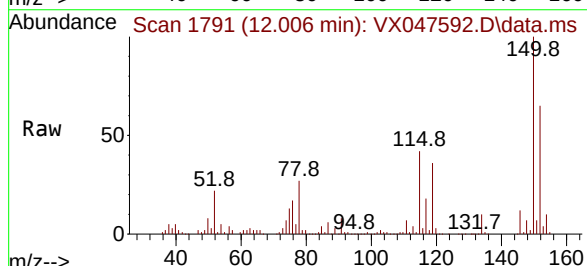
Tgt Ion:173 Resp: 86524
Ion Ratio Lower Upper
173 100
175 48.2 24.9 74.6
254 0.0 0.1 0.1

Manual Integrations
APPROVED

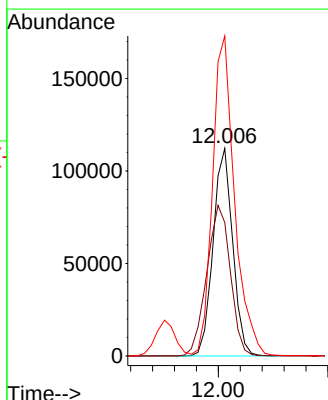
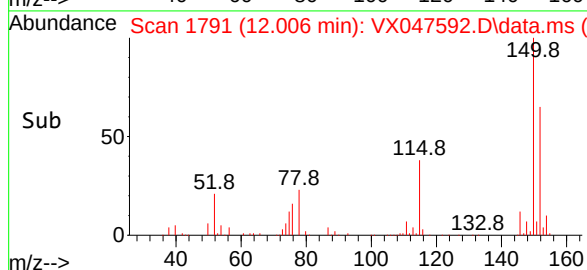
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

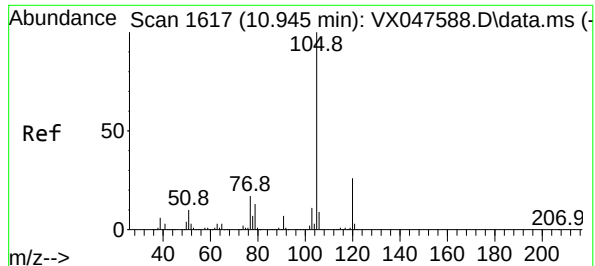


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35



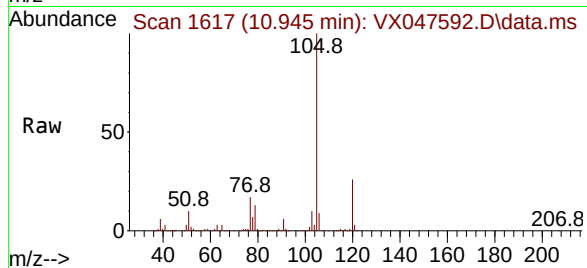
Tgt Ion:152 Resp: 139252
Ion Ratio Lower Upper
152 100
115 87.5 44.9 134.5
150 173.5 0.0 352.0





#73
Isopropylbenzene
Concen: 49.479 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

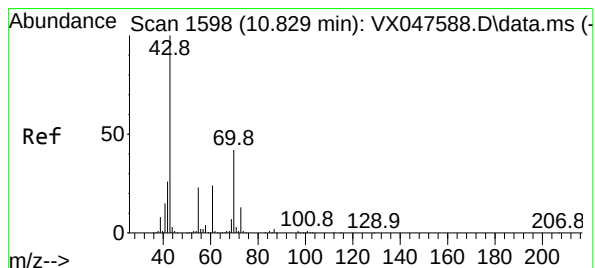
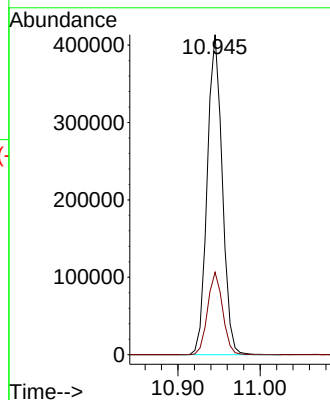
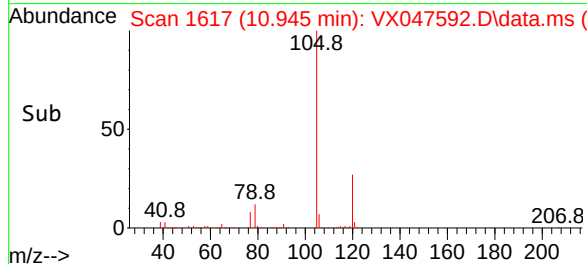
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion:105 Resp: 523820
Ion Ratio Lower Upper
105 100
120 25.7 12.8 38.4

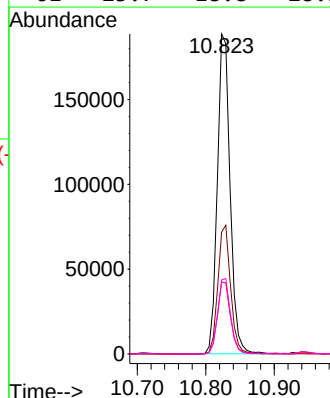
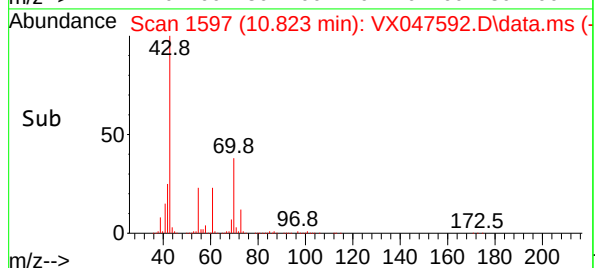
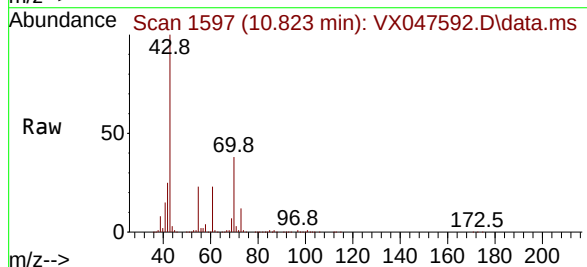
Manual Integrations
APPROVED

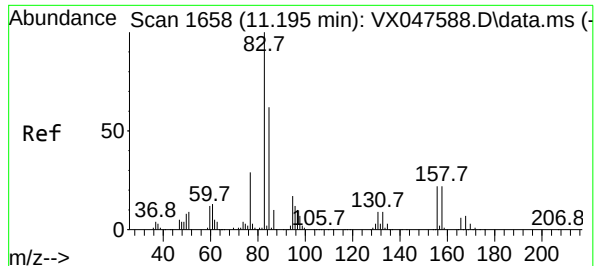
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#74
N-ethyl acetate
Concen: 50.375 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 43 Resp: 243198
Ion Ratio Lower Upper
43 100
70 40.2 32.0 48.0
55 23.2 18.9 28.3
61 23.7 18.8 28.2





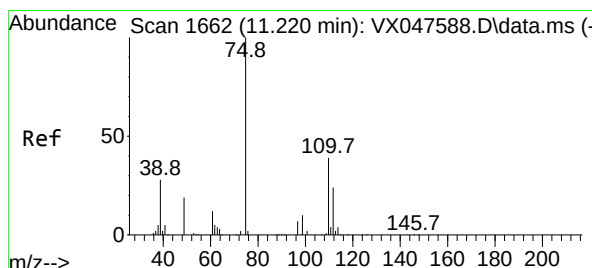
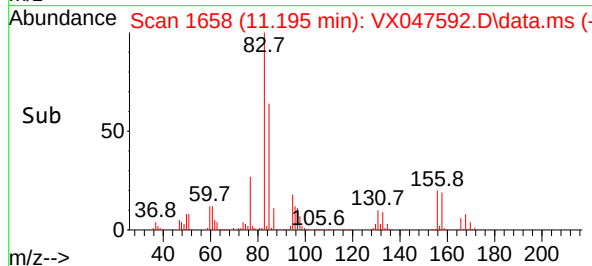
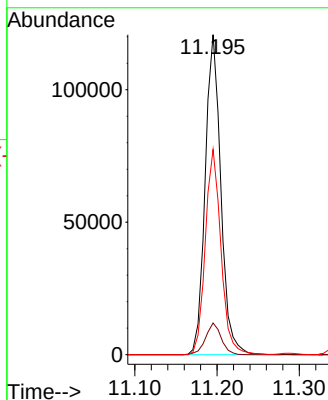
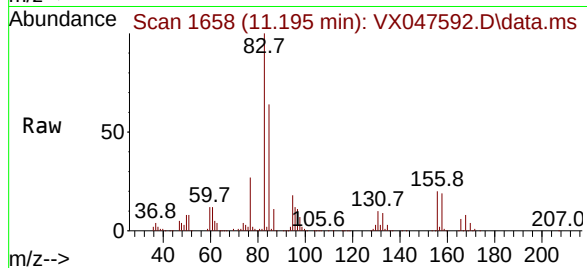
#75
1,1,2,2-Tetrachloroethane
Concen: 49.851 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 83 Resp: 159670
Ion Ratio Lower Upper
83 100
131 9.9 5.0 14.9
85 64.2 31.6 95.0

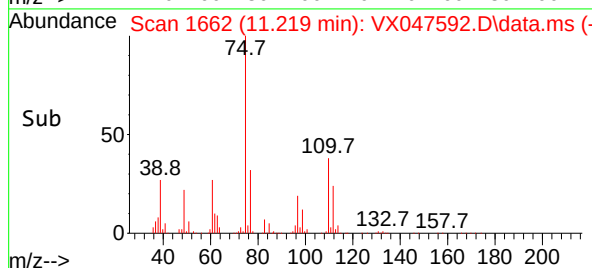
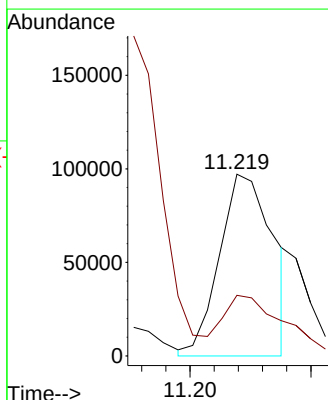
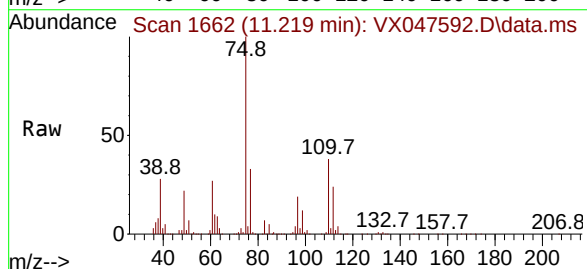
Manual Integrations
APPROVED

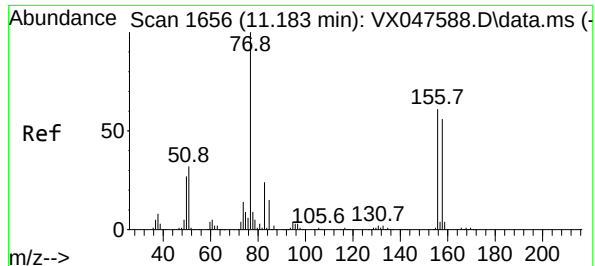
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#76
1,2,3-Trichloropropane
Concen: 53.124 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 149779
Ion Ratio Lower Upper
75 100
77 38.0 18.8 56.4





#77

Bromobenzene

Concen: 48.173 ug/l

RT: 11.183 min Scan# 1656

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion:156 Resp: 125610

Ion Ratio Lower Upper

156 100

77 182.2 89.7 269.1

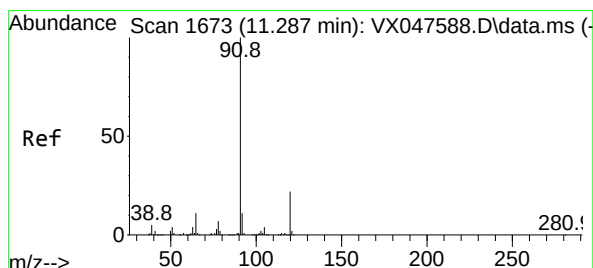
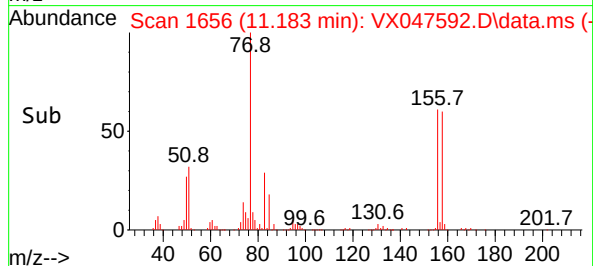
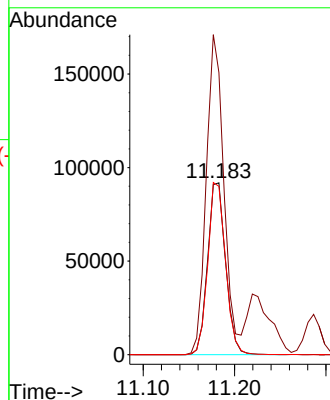
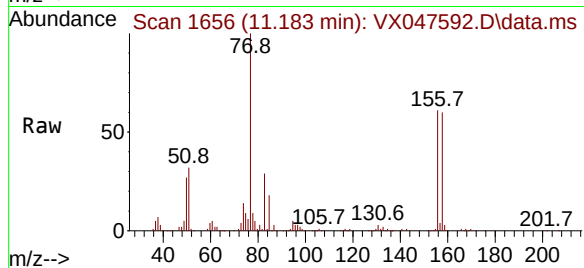
158 99.0 47.9 143.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#78

n-propylbenzene

Concen: 49.295 ug/l

RT: 11.286 min Scan# 1673

Delta R.T. -0.000 min

Lab File: VX047592.D

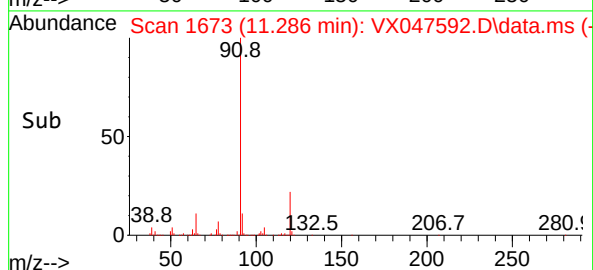
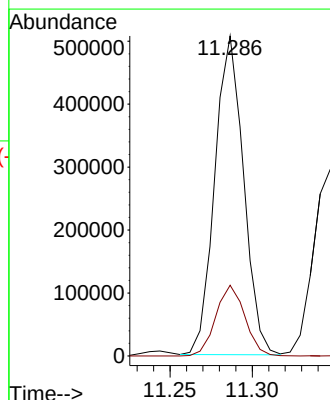
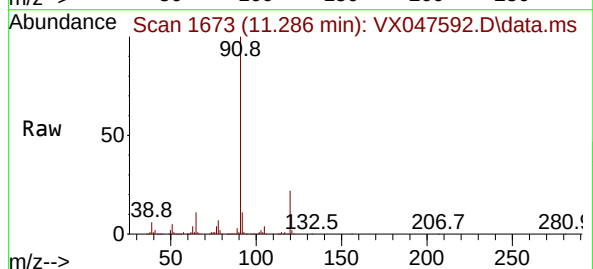
Acq: 16 Sep 2025 13:35

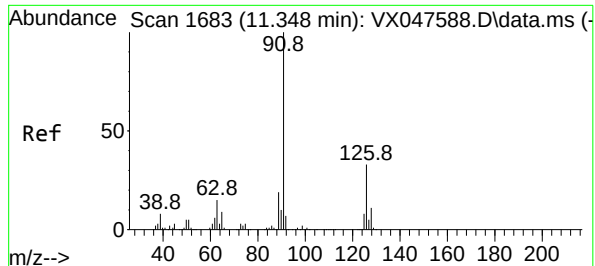
Tgt Ion: 91 Resp: 616928

Ion Ratio Lower Upper

91 100

120 22.4 11.1 33.1





#79

2-Chlorotoluene

Concen: 49.117 ug/l

RT: 11.347 min Scan# 1683

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion: 91 Resp: 376480

Ion Ratio Lower Upper

91 100

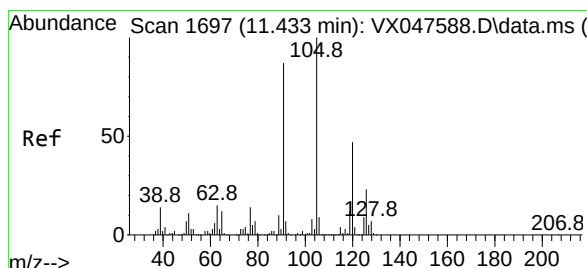
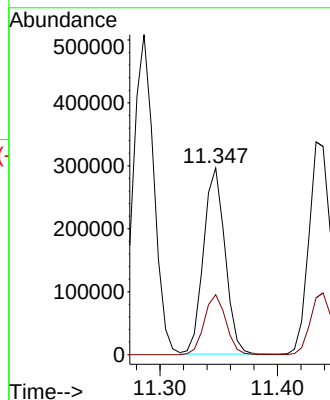
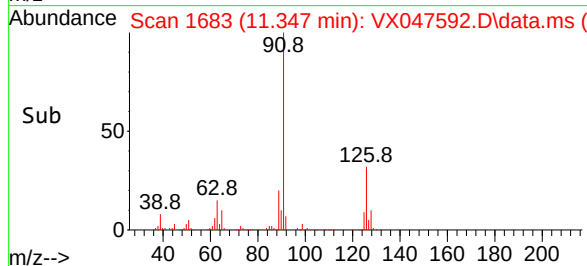
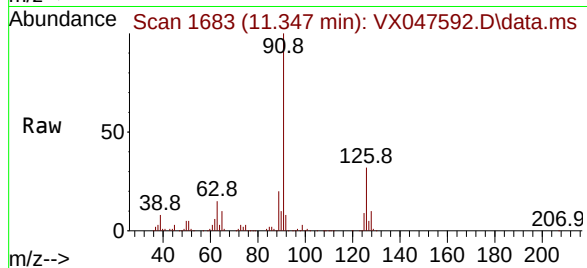
126 32.4 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#80

1,3,5-Trimethylbenzene

Concen: 50.055 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX047592.D

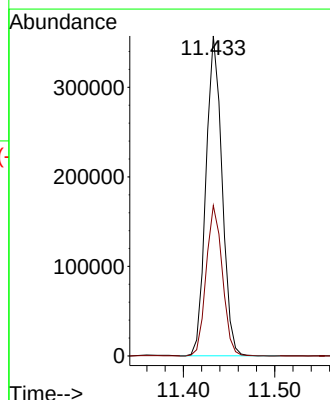
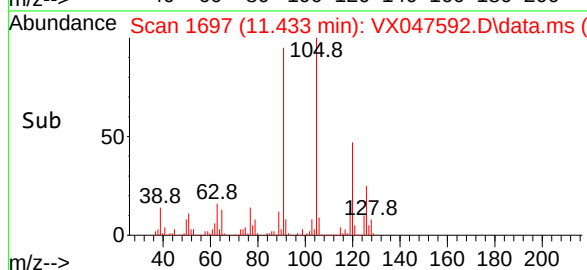
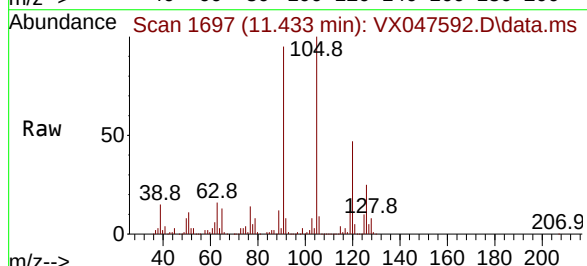
Acq: 16 Sep 2025 13:35

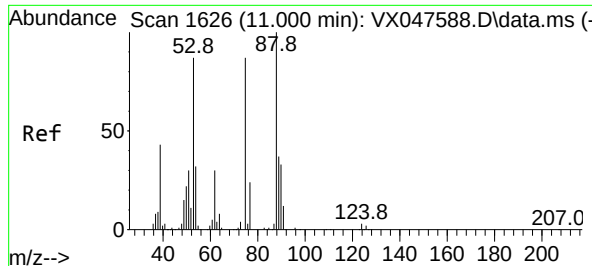
Tgt Ion:105 Resp: 435375

Ion Ratio Lower Upper

105 100

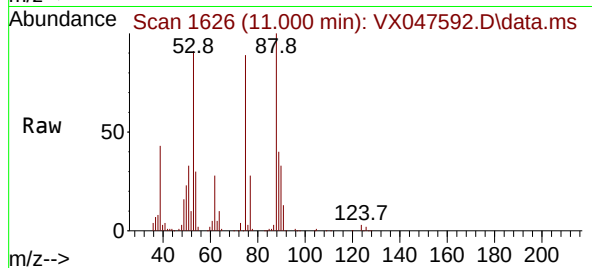
120 47.5 23.6 70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 50.543 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

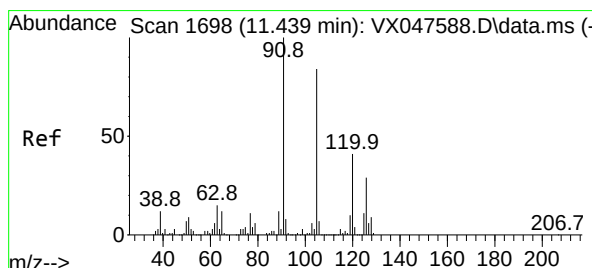
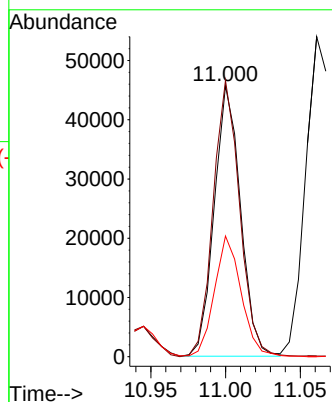
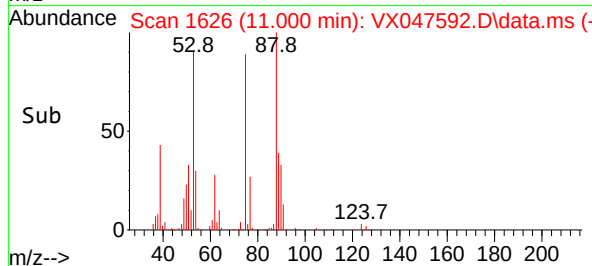
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion: 75 Resp: 55880
Ion Ratio Lower Upper
75 100
53 103.4 83.4 125.2
89 45.4 36.3 54.5

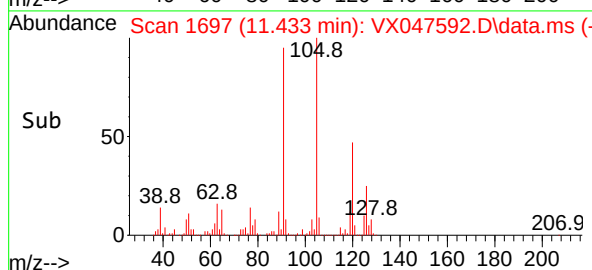
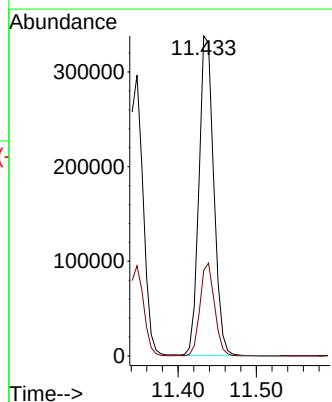
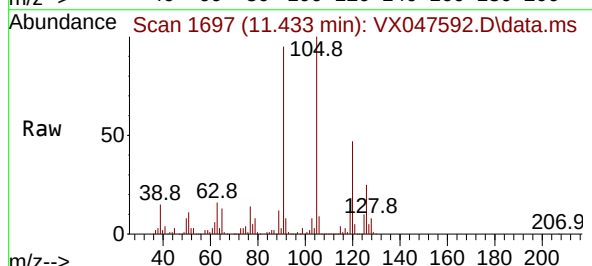
Manual Integrations
APPROVED

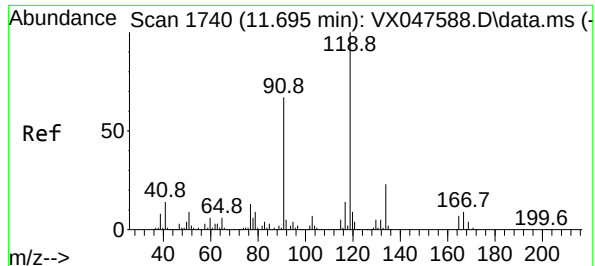
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#82
4-Chlorotoluene
Concen: 49.164 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

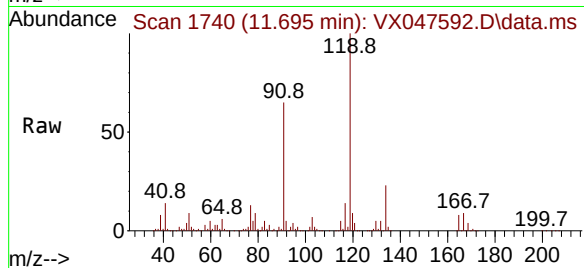
Tgt Ion: 91 Resp: 445075
Ion Ratio Lower Upper
91 100
126 28.6 14.2 42.6





#83
tert-Butylbenzene
Concen: 49.679 ug/l
RT: 11.695 min Scan# 1740
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

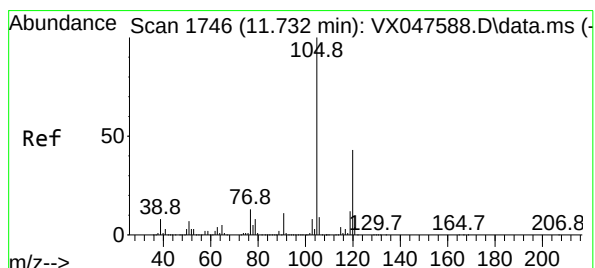
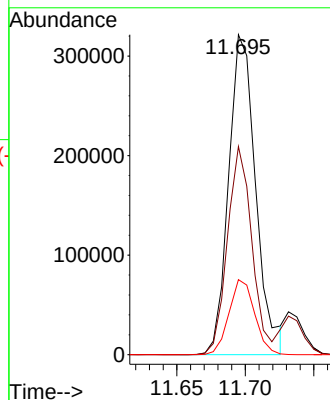
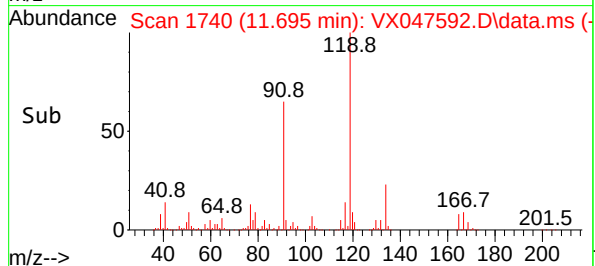
Instrument :
MSVOA_X
ClientSampleId :
ICVX091625



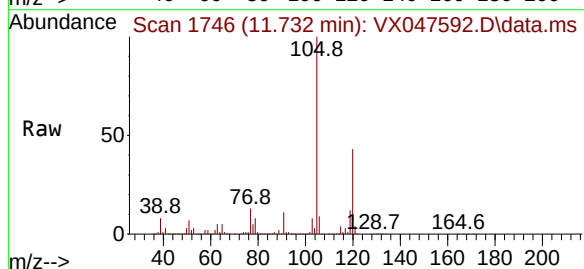
Tgt Ion:119 Resp: 44234
Ion Ratio Lower Upper
119 100
91 58.7 29.6 88.8
134 22.3 11.0 33.0

Manual Integrations
APPROVED

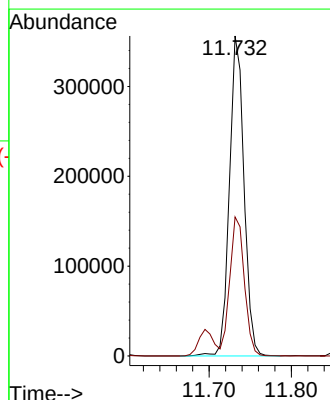
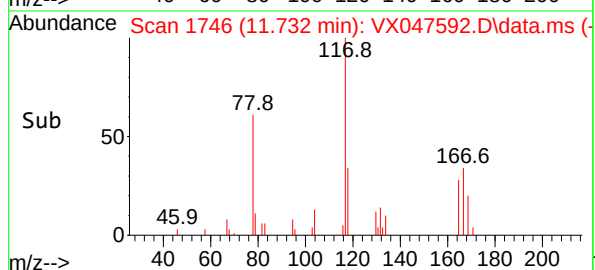
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

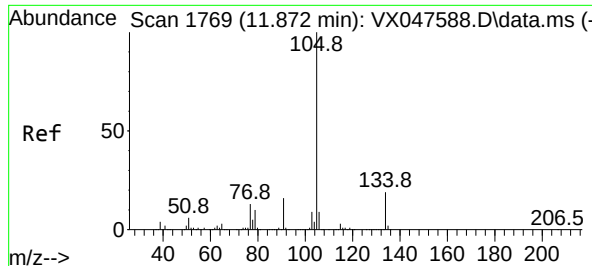


#84
1,2,4-Trimethylbenzene
Concen: 49.911 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35



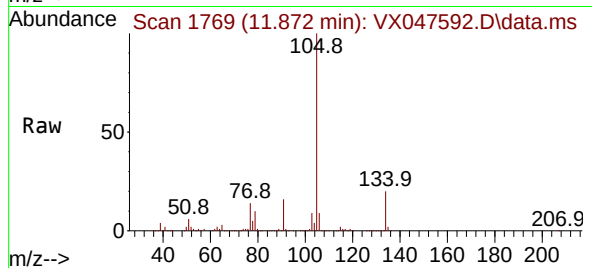
Tgt Ion:105 Resp: 440134
Ion Ratio Lower Upper
105 100
120 43.5 22.1 66.1





#85
sec-Butylbenzene
Concen: 50.100 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

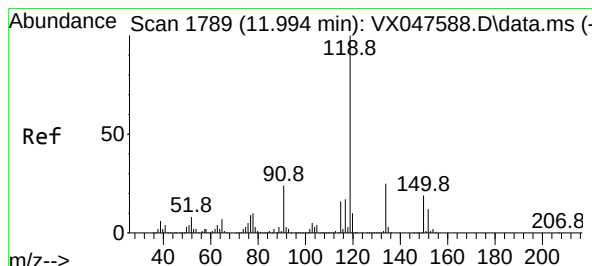
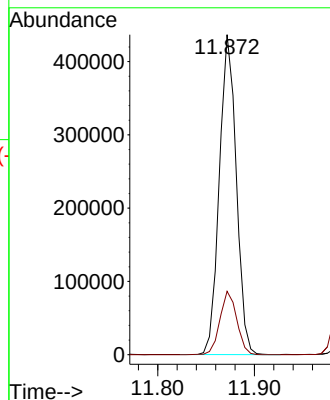
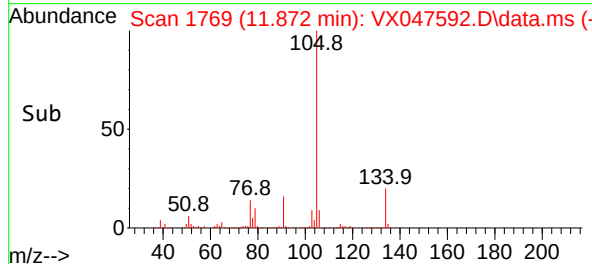
Instrument :
MSVOA_X
ClientSampleId :
ICVX091625



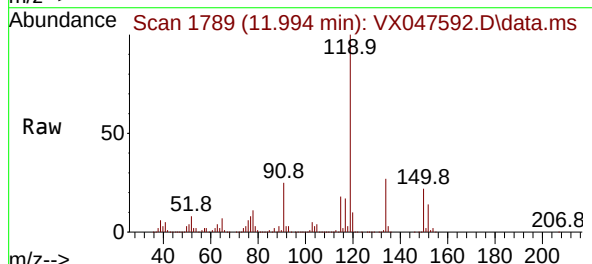
Tgt Ion:105 Resp: 529869
Ion Ratio Lower Upper
105 100
134 19.7 9.8 29.5

Manual Integrations
APPROVED

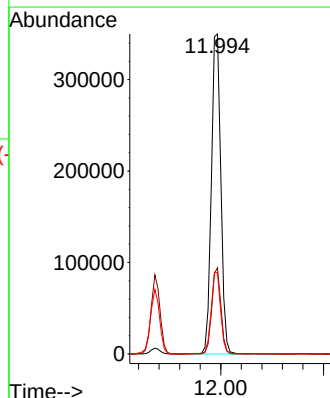
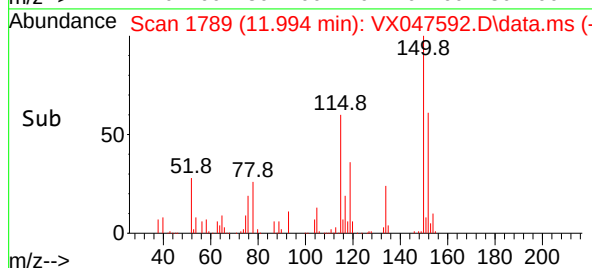
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

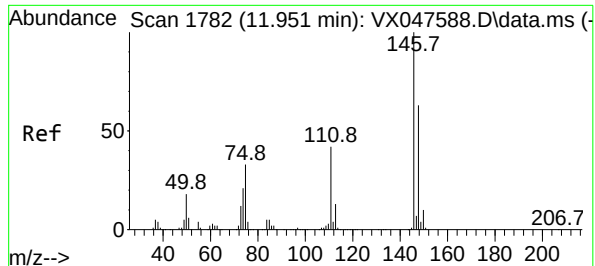


#86
p-Isopropyltoluene
Concen: 49.861 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35



Tgt Ion:119 Resp: 446441
Ion Ratio Lower Upper
119 100
134 25.9 12.6 37.8
91 25.4 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 49.014 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion:146 Resp: 23738

Ion Ratio Lower Upper

146 100

111 42.1 21.5 64.5

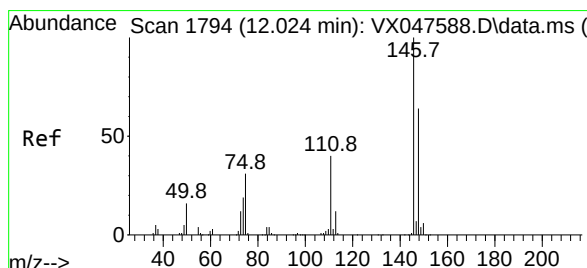
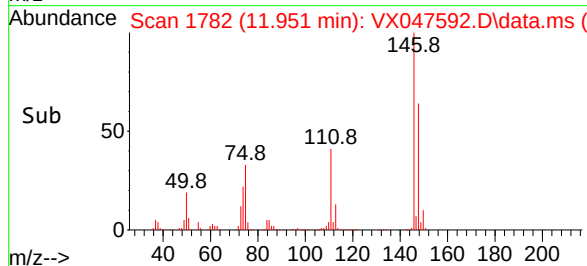
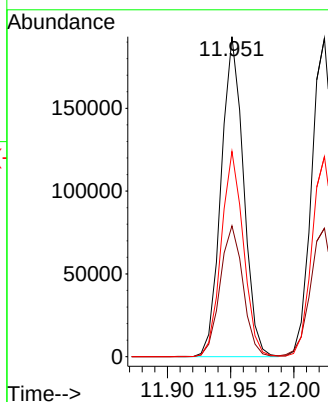
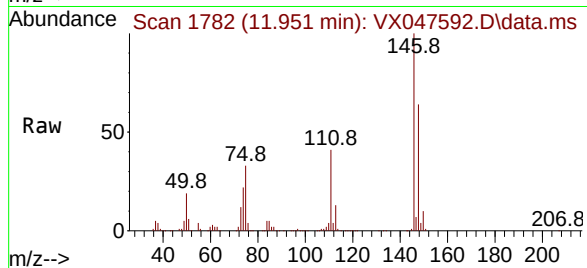
148 63.5 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#88

1,4-Dichlorobenzene

Concen: 49.011 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

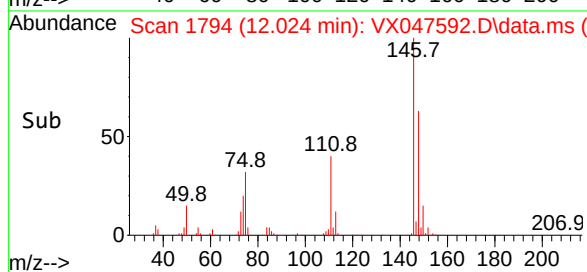
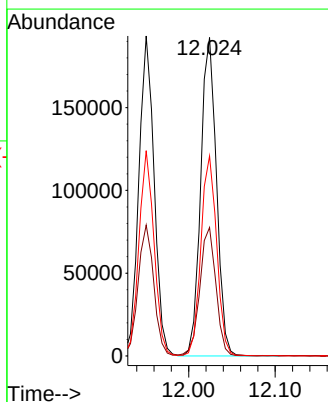
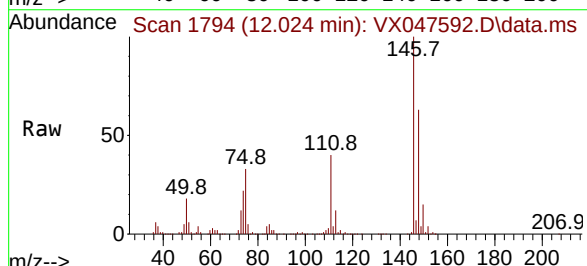
Tgt Ion:146 Resp: 243618

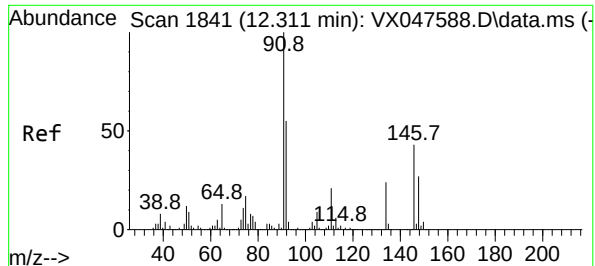
Ion Ratio Lower Upper

146 100

111 41.0 20.8 62.4

148 62.7 31.7 95.1





#89

n-Butylbenzene

Concen: 50.752 ug/l

RT: 12.317 min Scan# 1841

Delta R.T. 0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVX091625

Tgt Ion: 91 Resp: 420478

Ion Ratio Lower Upper

91 100

92 55.2 27.6 82.7

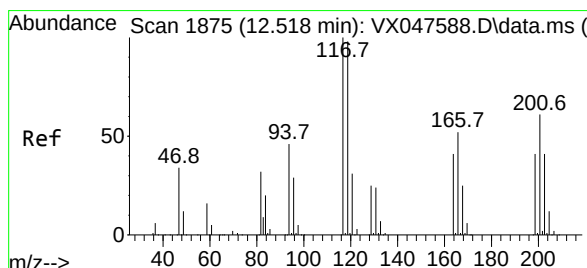
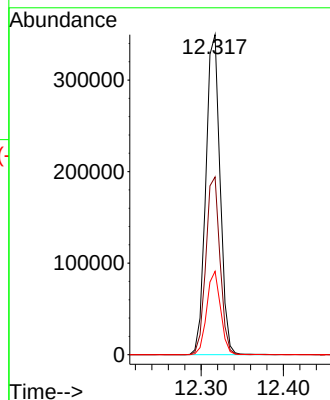
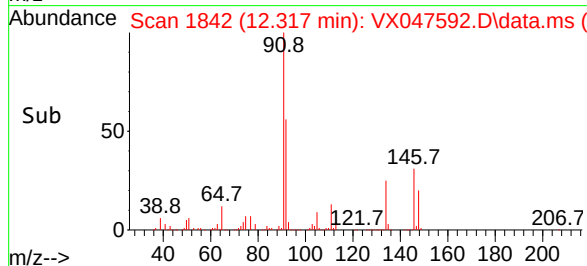
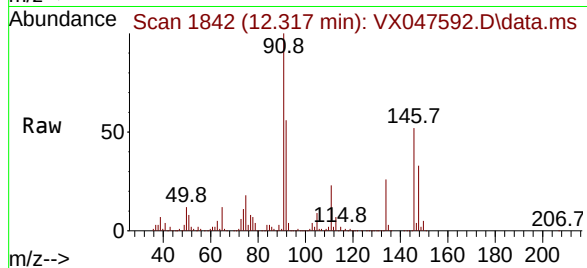
134 25.3 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachloroethane

Concen: 50.732 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX047592.D

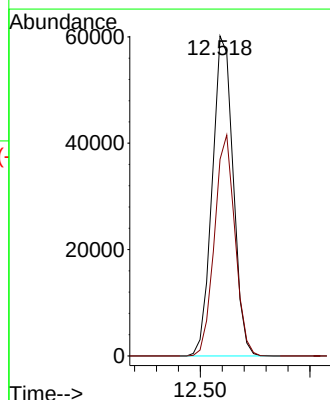
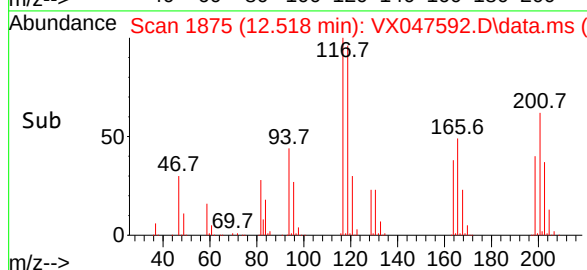
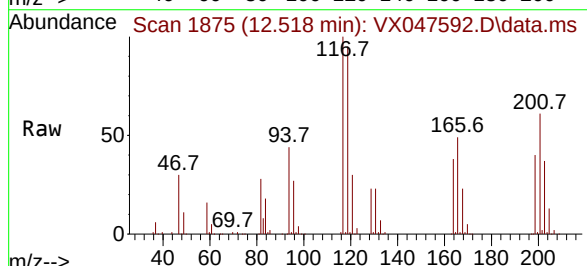
Acq: 16 Sep 2025 13:35

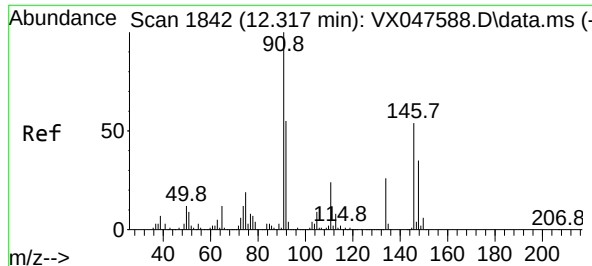
Tgt Ion:117 Resp: 79751

Ion Ratio Lower Upper

117 100

201 67.7 34.2 102.5





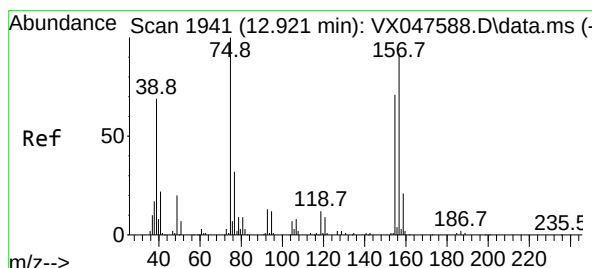
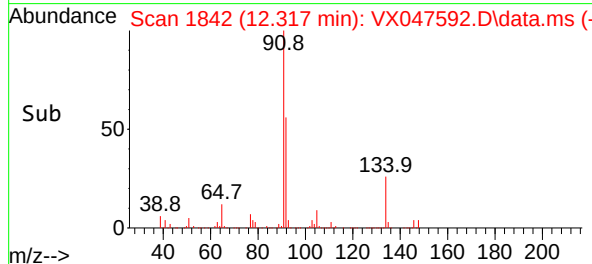
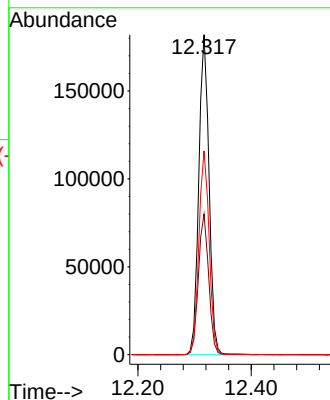
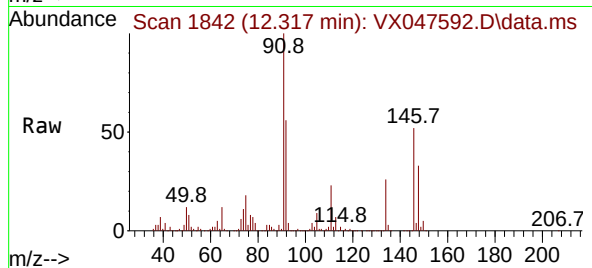
#91
1,2-Dichlorobenzene
Concen: 49.304 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVX091625

Tgt Ion:146 Resp: 22749
Ion Ratio Lower Upper
146 100
111 44.2 22.2 66.6
148 64.1 31.8 95.4

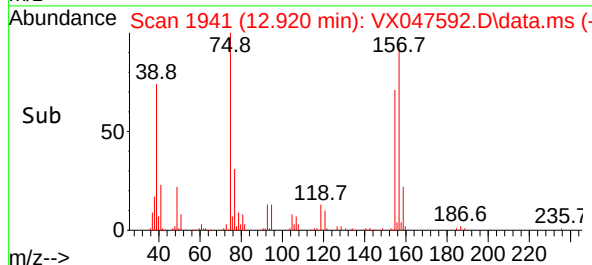
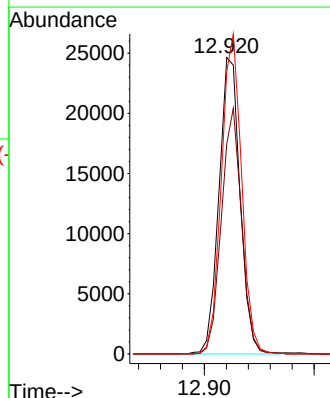
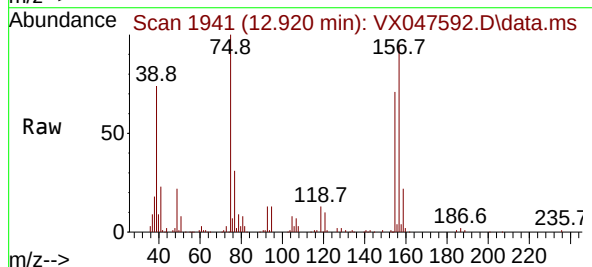
Manual Integrations
APPROVED

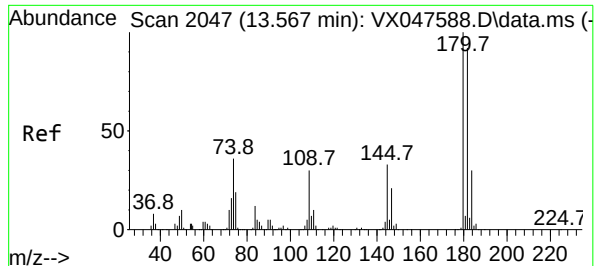
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 50.918 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Tgt Ion: 75 Resp: 33020
Ion Ratio Lower Upper
75 100
155 79.1 37.7 113.1
157 103.2 49.8 149.4





#93

1,2,4-Trichlorobenzene

Concen: 51.133 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625

Tgt Ion:180 Resp: 15333

Ion Ratio Lower Upper

180 100

182 93.1 46.6 139.8

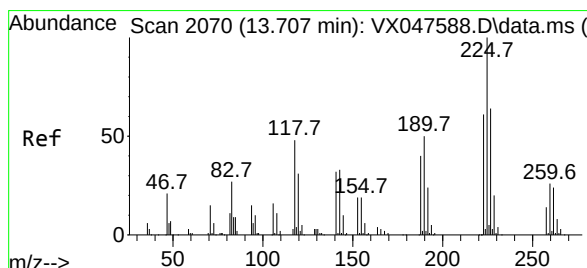
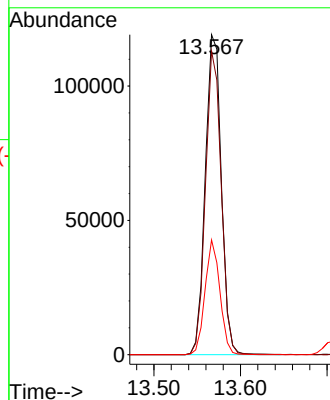
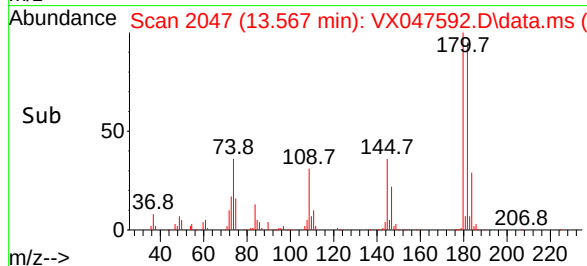
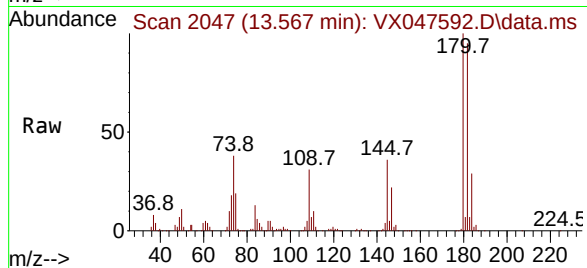
145 33.3 16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#94

Hexachlorobutadiene

Concen: 52.131 ug/l

RT: 13.707 min Scan# 2070

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

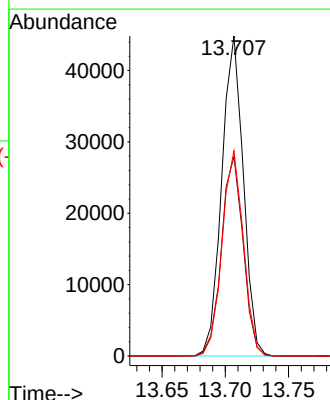
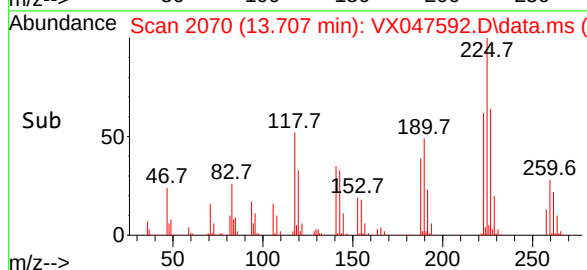
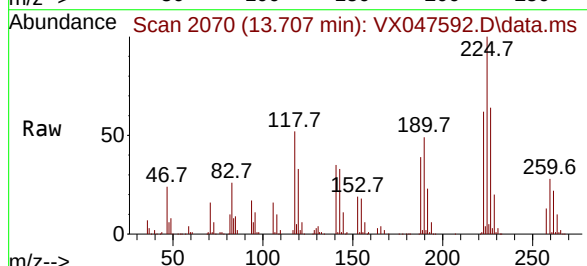
Tgt Ion:225 Resp: 53099

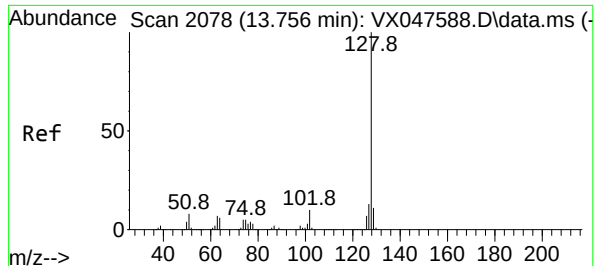
Ion Ratio Lower Upper

225 100

223 62.6 31.7 95.1

227 63.3 32.0 96.0





#95

Naphthalene

Concen: 50.836 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

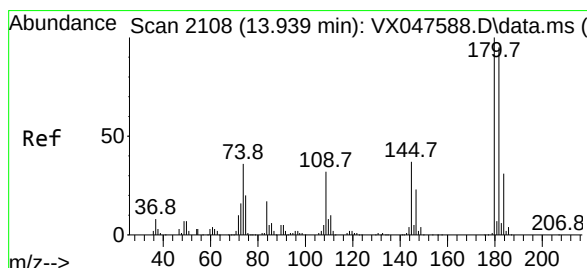
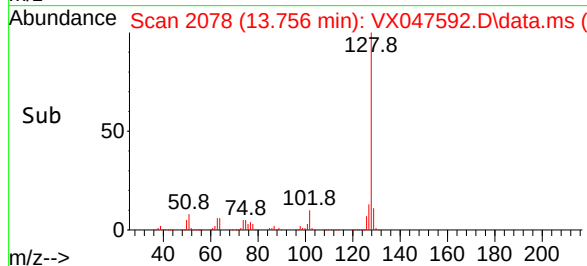
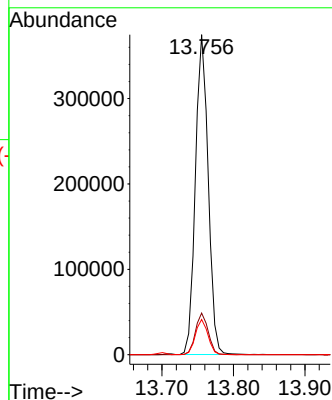
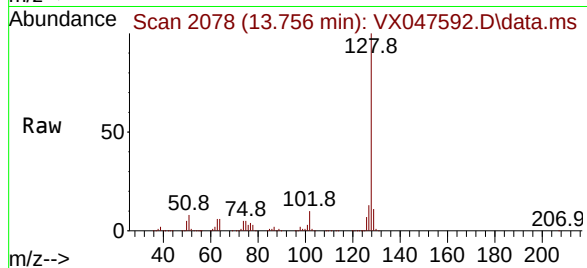
ICVX091625

Tgt Ion:	128	Resp:	464200
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.2	15.2
129	10.9	8.8	13.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#96

1,2,3-Trichlorobenzene

Concen: 51.054 ug/l

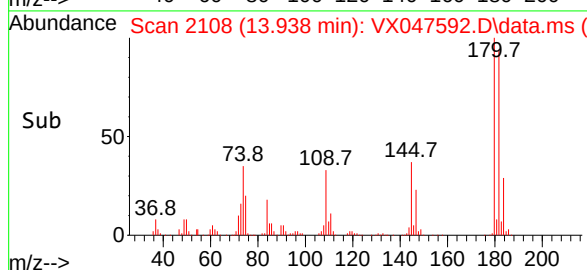
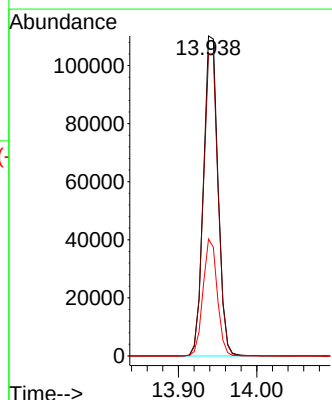
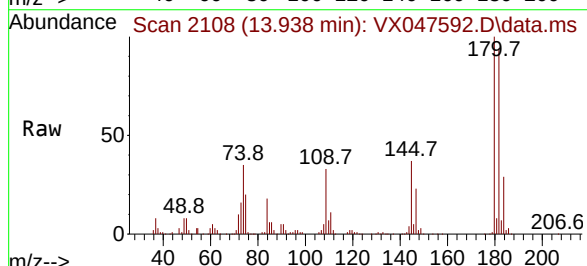
RT: 13.938 min Scan# 2108

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Tgt Ion:	180	Resp:	142413
Ion Ratio	Lower	Upper	
180	100		
182	95.5	47.6	142.8
145	35.6	17.9	53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	108	-0.01
2 T	Dichlorodifluoromethane	0.518	0.462	10.8	99	0.00
3 P	Chloromethane	0.680	0.595	12.5	97	0.00
4 C	Vinyl Chloride	0.666	0.610	8.4#	99	0.00
5 T	Bromomethane	0.422	0.410	2.8	104	0.00
6 T	Chloroethane	0.445	0.415	6.7	101	0.00
7 T	Trichlorofluoromethane	0.989	0.931	5.9	101	0.00
8 T	Diethyl Ether	0.405	0.378	6.7	99	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.578	0.561	2.9	103	0.00
10 T	Methyl Iodide	0.902	0.834	7.5	98	0.00
11 T	Tert butyl alcohol	0.089	0.091	-2.2	110	0.00
12 CM	1,1-Dichloroethene	0.594	0.559	5.9#	100	0.00
13 T	Acrolein	0.082	0.083	-1.2	110	0.00
14 T	Allyl chloride	1.226	1.146	6.5	102	0.00
15 T	Acrylonitrile	0.328	0.333	-1.5	103	0.00
16 T	Acetone	0.346	0.339	2.0	115	0.00
17 T	Carbon Disulfide	1.626	1.463	10.0	100	0.00
18 T	Methyl Acetate	0.770	0.850	-10.4	104	0.00
19 T	Methyl tert-butyl Ether	2.169	2.105	3.0	101	0.00
20 T	Methylene Chloride	0.732	0.674	7.9	99	0.00
21 T	trans-1,2-Dichloroethene	0.640	0.597	6.7	99	0.00
22 T	Diisopropyl ether	2.376	2.289	3.7	99	-0.01
23 T	Vinyl Acetate	1.901	1.867	1.8	101	0.00
24 P	1,1-Dichloroethane	1.263	1.213	4.0	101	0.00
25 T	2-Butanone	0.432	0.438	-1.4	107	0.00
26 T	2,2-Dichloropropane	1.050	1.039	1.0	105	0.00
27 T	cis-1,2-Dichloroethene	0.783	0.765	2.3	102	0.00
28 T	Bromochloromethane	0.551	0.514	6.7	96	-0.01
29 T	Tetrahydrofuran	0.260	0.263	-1.2	103	0.00
30 C	Chloroform	1.276	1.244	2.5#	101	0.00
31 T	Cyclohexane	1.052	0.968	8.0	101	0.00
32 T	1,1,1-Trichloroethane	1.082	1.060	2.0	101	0.00
33 S	1,2-Dichloroethane-d4	0.796	0.725	8.9	101	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	108	0.00
35 S	Dibromofluoromethane	0.335	0.306	8.7	100	0.00
36 T	1,1-Dichloropropene	0.490	0.457	6.7	101	0.00
37 T	Ethyl Acetate	0.525	0.517	1.5	105	-0.01
38 T	Carbon Tetrachloride	0.532	0.500	6.0	100	-0.01
39 T	Methylcyclohexane	0.556	0.541	2.7	103	0.00
40 TM	Benzene	1.488	1.410	5.2	100	0.00
41 T	Methacrylonitrile	0.271	0.274	-1.1	103	0.00
42 TM	1,2-Dichloroethane	0.566	0.531	6.2	98	0.00
43 T	Isopropyl Acetate	0.860	0.846	1.6	102	0.00
44 TM	Trichloroethene	0.360	0.346	3.9	101	0.00
45 C	1,2-Dichloropropane	0.381	0.366	3.9#	100	0.00
46 T	Dibromomethane	0.277	0.266	4.0	100	0.00
47 T	Bromodichloromethane	0.572	0.558	2.4	99	0.00
48 T	Methyl methacrylate	0.429	0.427	0.5	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	0.004	0.005	-25.0	106	0.00
50 S	Toluene-d8	1.160	1.077	7.2	101	0.00
51 T	4-Methyl-2-Pentanone	0.477	0.488	-2.3	103	0.00
52 CM	Toluene	0.917	0.883	3.7#	101	0.00
53 T	t-1,3-Dichloropropene	0.584	0.578	1.0	101	0.00
54 T	cis-1,3-Dichloropropene	0.624	0.615	1.4	102	0.00
55 T	1,1,2-Trichloroethane	0.354	0.338	4.5	99	0.00
56 T	Ethyl methacrylate	0.555	0.572	-3.1	103	0.00
57 T	1,3-Dichloropropane	0.607	0.594	2.1	101	0.00
58 T	2-Chloroethyl Vinyl ether	0.227	0.238	-4.8	94	0.00
59 T	2-Hexanone	0.343	0.347	-1.2	104	0.00
60 T	Dibromochloromethane	0.407	0.406	0.2	101	0.00
61 T	1,2-Dibromoethane	0.360	0.355	1.4	101	0.00
62 S	4-Bromofluorobenzene	0.440	0.410	6.8	104	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
64 T	Tetrachloroethene	0.326	0.315	3.4	103	0.00
65 PM	Chlorobenzene	1.136	1.103	2.9	100	0.00
66 T	1,1,1,2-Tetrachloroethane	0.392	0.383	2.3	99	0.00
67 C	Ethyl Benzene	1.960	1.953	0.4#	102	0.00
68 T	m/p-Xylenes	0.729	0.722	1.0	101	0.00
69 T	o-Xylene	0.706	0.708	-0.3	101	0.00
70 T	Styrene	1.236	1.225	0.9	101	0.00
71 P	Bromoform	0.293	0.300	-2.4	102	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00
73 T	Isopropylbenzene	3.801	3.762	1.0	101	0.00
74 T	N-amyl acetate	1.733	1.746	-0.8	102	0.00
75 P	1,1,2,2-Tetrachloroethane	1.150	1.147	0.3	102	0.00
76 T	1,2,3-Trichloropropane	1.012	1.076	-6.3	104	0.00
77 T	Bromobenzene	0.936	0.902	3.6	100	0.00
78 T	n-propylbenzene	4.494	4.430	1.4	101	0.00
79 T	2-Chlorotoluene	2.752	2.704	1.7	101	0.00
80 T	1,3,5-Trimethylbenzene	3.123	3.127	-0.1	102	0.00
81 T	trans-1,4-Dichloro-2-butene	0.397	0.401	-1.0	106	0.00
82 T	4-Chlorotoluene	3.251	3.196	1.7	101	0.00
83 T	tert-Butylbenzene	3.197	3.177	0.6	103	0.00
84 T	1,2,4-Trimethylbenzene	3.166	3.161	0.2	103	0.00
85 T	sec-Butylbenzene	3.797	3.805	-0.2	103	0.00
86 T	p-Isopropyltoluene	3.215	3.206	0.3	102	0.00
87 T	1,3-Dichlorobenzene	1.739	1.705	2.0	102	0.00
88 T	1,4-Dichlorobenzene	1.785	1.749	2.0	104	0.00
89 T	n-Butylbenzene	2.975	3.020	-1.5	105	0.00
90 T	Hexachloroethane	0.564	0.573	-1.6	105	0.00
91 T	1,2-Dichlorobenzene	1.657	1.634	1.4	102	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.233	0.237	-1.7	102	0.00
93 T	1,2,4-Trichlorobenzene	1.077	1.101	-2.2	104	0.00
94 T	Hexachlorobutadiene	0.366	0.381	-4.1	108	0.00
95 T	Naphthalene	3.279	3.334	-1.7	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	1.002	1.023	-2.1	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX091625\
Data File : WX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	108	-0.01
2 T	Dichlorodifluoromethane	50.000	44.592	10.8	99	0.00
3 P	Chloromethane	50.000	43.710	12.6	97	0.00
4 C	Vinyl Chloride	50.000	45.783	8.4#	99	0.00
5 T	Bromomethane	50.000	48.489	3.0	104	0.00
6 T	Chloroethane	50.000	46.575	6.8	101	0.00
7 T	Trichlorofluoromethane	50.000	47.074	5.9	101	0.00
8 T	Diethyl Ether	50.000	46.693	6.6	99	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.524	3.0	103	0.00
10 T	Methyl Iodide	50.000	46.210	7.6	98	0.00
11 T	Tert butyl alcohol	250.000	256.271	-2.5	110	0.00
12 CM	1,1-Dichloroethene	50.000	47.076	5.8#	100	0.00
13 T	Acrolein	250.000	254.867	-1.9	110	0.00
14 T	Allyl chloride	50.000	46.742	6.5	102	0.00
15 T	Acrylonitrile	250.000	253.567	-1.4	103	0.00
16 T	Acetone	250.000	245.006	2.0	115	0.00
17 T	Carbon Disulfide	50.000	44.966	10.1	100	0.00
18 T	Methyl Acetate	50.000	55.175	-10.3	104	0.00
19 T	Methyl tert-butyl Ether	50.000	48.538	2.9	101	0.00
20 T	Methylene Chloride	50.000	46.000	8.0	99	0.00
21 T	trans-1,2-Dichloroethene	50.000	46.709	6.6	99	0.00
22 T	Diisopropyl ether	50.000	48.174	3.7	99	-0.01
23 T	Vinyl Acetate	250.000	245.539	1.8	101	0.00
24 P	1,1-Dichloroethane	50.000	48.041	3.9	101	0.00
25 T	2-Butanone	250.000	253.598	-1.4	107	0.00
26 T	2,2-Dichloropropane	50.000	49.494	1.0	105	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.826	2.3	102	0.00
28 T	Bromochloromethane	50.000	46.586	6.8	96	-0.01
29 T	Tetrahydrofuran	250.000	253.375	-1.4	103	0.00
30 C	Chloroform	50.000	48.739	2.5#	101	0.00
31 T	Cyclohexane	50.000	45.999	8.0	101	0.00
32 T	1,1,1-Trichloroethane	50.000	48.978	2.0	101	0.00
33 S	1,2-Dichloroethane-d4	50.000	45.550	8.9	101	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	108	0.00
35 S	Dibromofluoromethane	50.000	45.559	8.9	100	0.00
36 T	1,1-Dichloropropene	50.000	46.663	6.7	101	0.00
37 T	Ethyl Acetate	50.000	49.241	1.5	105	-0.01
38 T	Carbon Tetrachloride	50.000	46.935	6.1	100	-0.01
39 T	Methylcyclohexane	50.000	48.597	2.8	103	0.00
40 TM	Benzene	50.000	47.357	5.3	100	0.00
41 T	Methacrylonitrile	50.000	50.490	-1.0	103	0.00
42 TM	1,2-Dichloroethane	50.000	46.867	6.3	98	0.00
43 T	Isopropyl Acetate	50.000	49.136	1.7	102	0.00
44 TM	Trichloroethene	50.000	48.037	3.9	101	0.00
45 C	1,2-Dichloropropane	50.000	48.053	3.9#	100	0.00
46 T	Dibromomethane	50.000	47.976	4.0	100	0.00
47 T	Bromodichloromethane	50.000	48.769	2.5	99	0.00
48 T	Methyl methacrylate	50.000	49.757	0.5	102	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	1089.520	-9.0	106	0.00
50 S	Toluene-d8	50.000	46.411	7.2	101	0.00
51 T	4-Methyl-2-Pentanone	250.000	255.752	-2.3	103	0.00
52 CM	Toluene	50.000	48.130	3.7#	101	0.00
53 T	t-1,3-Dichloropropene	50.000	49.527	0.9	101	0.00
54 T	cis-1,3-Dichloropropene	50.000	49.257	1.5	102	0.00
55 T	1,1,2-Trichloroethane	50.000	47.772	4.5	99	0.00
56 T	Ethyl methacrylate	50.000	51.490	-3.0	103	0.00
57 T	1,3-Dichloropropane	50.000	48.894	2.2	101	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	225.562	9.8	94	0.00
59 T	2-Hexanone	250.000	253.126	-1.3	104	0.00
60 T	Dibromochloromethane	50.000	49.824	0.4	101	0.00
61 T	1,2-Dibromoethane	50.000	49.297	1.4	101	0.00
62 S	4-Bromofluorobenzene	50.000	46.520	7.0	104	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	107	0.00
64 T	Tetrachloroethene	50.000	48.296	3.4	103	0.00
65 PM	Chlorobenzene	50.000	48.549	2.9	100	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	48.794	2.4	99	0.00
67 C	Ethyl Benzene	50.000	49.813	0.4#	102	0.00
68 T	m/p-Xylenes	100.000	98.956	1.0	101	0.00
69 T	o-Xylene	50.000	50.159	-0.3	101	0.00
70 T	Styrene	50.000	49.536	0.9	101	0.00
71 P	Bromoform	50.000	51.207	-2.4	102	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	109	0.00
73 T	Isopropylbenzene	50.000	49.479	1.0	101	0.00
74 T	N-amyl acetate	50.000	50.375	-0.8	102	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.851	0.3	102	0.00
76 T	1,2,3-Trichloropropane	50.000	53.124	-6.2	104	0.00
77 T	Bromobenzene	50.000	48.173	3.7	100	0.00
78 T	n-propylbenzene	50.000	49.295	1.4	101	0.00
79 T	2-Chlorotoluene	50.000	49.117	1.8	101	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.055	-0.1	102	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	50.543	-1.1	106	0.00
82 T	4-Chlorotoluene	50.000	49.164	1.7	101	0.00
83 T	tert-Butylbenzene	50.000	49.679	0.6	103	0.00
84 T	1,2,4-Trimethylbenzene	50.000	49.911	0.2	103	0.00
85 T	sec-Butylbenzene	50.000	50.100	-0.2	103	0.00
86 T	p-Isopropyltoluene	50.000	49.861	0.3	102	0.00
87 T	1,3-Dichlorobenzene	50.000	49.014	2.0	102	0.00
88 T	1,4-Dichlorobenzene	50.000	49.011	2.0	104	0.00
89 T	n-Butylbenzene	50.000	50.752	-1.5	105	0.00
90 T	Hexachloroethane	50.000	50.732	-1.5	105	0.00
91 T	1,2-Dichlorobenzene	50.000	49.304	1.4	102	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	50.918	-1.8	102	0.00
93 T	1,2,4-Trichlorobenzene	50.000	51.133	-2.3	104	0.00
94 T	Hexachlorobutadiene	50.000	52.131	-4.3	108	0.00
95 T	Naphthalene	50.000	50.836	-1.7	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047592.D
Acq On : 16 Sep 2025 13:35
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Quant Time: Sep 17 06:47:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	51.054	-2.1	102	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:	<u>Alliance</u>	Contract:	<u>CORE02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3312</u>
Instrument ID:	<u>MSVOA_X</u>	Calibration Date/Time:	<u>10/14/2025</u> <u>10:02</u>
Lab File ID:	<u>VX048153.D</u>	Init. Calib. Date(s):	<u>09/16/2025</u> <u>09/16/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:23</u> <u>12:01</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Benzene	1.488	1.679		12.84	20
Toluene	0.917	1.028		12.1	20
Ethyl Benzene	1.960	2.162		10.31	20
m/p-Xylenes	0.729	0.814		11.66	20
o-Xylene	0.706	0.754		6.8	20
1,2-Dichloroethane-d4	0.796	0.845		6.16	20
Dibromofluoromethane	0.335	0.391		16.72	20
Toluene-d8	1.160	1.287		10.95	20
4-Bromofluorobenzene	0.440	0.491		11.59	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\VX101425\
 Data File : VX048153.D
 Acq On : 14 Oct 2025 10:02
 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 10/15/2025
 Supervised By : Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 02:39:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	124958	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	212282	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	195629	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	95000	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	105555	53.069	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 106.140%			
35) Dibromofluoromethane	5.367	113	83107	58.375	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 116.740%			
50) Toluene-d8	8.634	98	273280	55.475	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 110.940%			
62) 4-Bromofluorobenzene	11.061	95	104295	55.785	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.580%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.179	85	83323	64.394	ug/l	99
3) Chloromethane	1.300	50	94592	55.622	ug/l	99
4) Vinyl Chloride	1.380	62	105820	63.566	ug/l	99
5) Bromomethane	1.611	94	64973	61.550	ug/l	99
6) Chloroethane	1.691	64	64713	58.162	ug/l	97
7) Trichlorofluoromethane	1.892	101	161648	65.398	ug/l	97
8) Diethyl Ether	2.136	74	53778	53.186	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	89852	62.168	ug/l	99
10) Methyl Iodide	2.453	142	99997	44.362	ug/l	98
11) Tert butyl alcohol	2.940	59	47281	213.436	ug/l	98
12) 1,1-Dichloroethene	2.325	96	87694	59.068	ug/l	93
13) Acrolein	2.233	56	56174	275.177	ug/l	99
14) Allyl chloride	2.666	41	155995	50.919	ug/l	99
15) Acrylonitrile	3.056	53	208181	253.713	ug/l	99
16) Acetone	2.373	43	198490	229.513	ug/l	98
17) Carbon Disulfide	2.514	76	260707	64.145	ug/l	98
18) Methyl Acetate	2.697	43	85646	44.499	ug/l	99
19) Methyl tert-butyl Ether	3.105	73	271738	50.140	ug/l	100
20) Methylene Chloride	2.788	84	97302	53.153	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	92192	57.678	ug/l	97
22) Diisopropyl ether	3.745	45	312969	52.712	ug/l	89
23) Vinyl Acetate	3.709	43	1187970	249.999	ug/l	100
24) 1,1-Dichloroethane	3.599	63	170542	54.042	ug/l	100
25) 2-Butanone	4.532	43	247988	229.881	ug/l	99
26) 2,2-Dichloropropane	4.465	77	139256	53.086	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	104261	53.263	ug/l	99
28) Bromochloromethane	4.879	49	66003	47.909	ug/l	99
29) Tetrahydrofuran	4.983	42	152425	234.875	ug/l	99
30) Chloroform	5.074	83	174306	54.659	ug/l	97
31) Cyclohexane	5.452	56	146119	55.594	ug/l	95
32) 1,1,1-Trichloroethane	5.367	97	153370	56.700	ug/l	98
36) 1,1-Dichloropropene	5.672	75	117898	56.673	ug/l	99
37) Ethyl Acetate	4.690	43	106836	47.964	ug/l	99
38) Carbon Tetrachloride	5.659	117	136874	60.555	ug/l	97
39) Methylcyclohexane	7.366	83	140080	59.319	ug/l	96
40) Benzene	6.019	78	356505	56.422	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101425\
 Data File : VX048153.D
 Acq On : 14 Oct 2025 10:02
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Quant Time: Oct 15 02:39:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 10/15/2025
 Supervised By :Mahesh Dadoda 10/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.897	41	59489	51.733	ug/l	98
42) 1,2-Dichloroethane	6.068	62	131107	54.535	ug/l	99
43) Isopropyl Acetate	6.318	43	171708	47.003	ug/l	100
44) Trichloroethene	7.104	130	88141	57.700	ug/l	93
45) 1,2-Dichloropropane	7.409	63	89187	55.124	ug/l	98
46) Dibromomethane	7.562	93	64264	54.583	ug/l	98
47) Bromodichloromethane	7.799	83	139683	57.493	ug/l	98
48) Methyl methacrylate	7.671	41	87675	48.182	ug/l	96
49) 1,4-Dioxane	7.641	88	19859	1079.897	ug/l	97
51) 4-Methyl-2-Pentanone	8.555	43	499181	246.453	ug/l	99
52) Toluene	8.702	92	218251	56.065	ug/l	99
53) t-1,3-Dichloropropene	8.958	75	132903	53.629	ug/l	99
54) cis-1,3-Dichloropropene	8.348	75	145065	54.766	ug/l	98
55) 1,1,2-Trichloroethane	9.134	97	80937	53.920	ug/l	99
56) Ethyl methacrylate	9.098	69	117815	49.978	ug/l	98
57) 1,3-Dichloropropane	9.293	76	141969	55.058	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.226	63	288271	255.570	ug/l	100
59) 2-Hexanone	9.415	43	347109	238.613	ug/l	99
60) Dibromochloromethane	9.500	129	100375	58.035	ug/l	98
61) 1,2-Dibromoethane	9.592	107	83730	54.765	ug/l	100
64) Tetrachloroethene	9.256	164	74940	58.763	ug/l	98
65) Chlorobenzene	10.061	112	241798	54.406	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.146	131	86732	56.554	ug/l	100
67) Ethyl Benzene	10.177	91	423004	55.162	ug/l	100
68) m/p-Xylenes	10.281	106	318453	111.573	ug/l	99
69) o-Xylene	10.622	106	147504	53.430	ug/l	98
70) Styrene	10.640	104	258201	53.377	ug/l	99
71) Bromoform	10.780	173	61853	54.014	ug/l #	98
73) Isopropylbenzene	10.945	105	379155	52.496	ug/l	99
74) N-amyl acetate	10.823	43	150652	45.741	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	107774	49.321	ug/l	98
76) 1,2,3-Trichloropropane	11.219	75	97890m	50.893	ug/l	
77) Bromobenzene	11.183	156	91421	51.393	ug/l	96
78) n-propylbenzene	11.286	91	457693	53.607	ug/l	100
79) 2-Chlorotoluene	11.347	91	269324	51.503	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	312991	52.746	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	35151	46.604	ug/l	98
82) 4-Chlorotoluene	11.433	91	319730	51.769	ug/l	99
83) tert-Butylbenzene	11.695	119	302438	49.789	ug/l	98
84) 1,2,4-Trimethylbenzene	11.732	105	314796	52.326	ug/l	99
85) sec-Butylbenzene	11.872	105	379931	52.657	ug/l	100
86) p-Isopropyltoluene	11.988	119	318657	52.167	ug/l	100
87) 1,3-Dichlorobenzene	11.951	146	169017	51.154	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	170864	50.386	ug/l	100
89) n-Butylbenzene	12.311	91	293985	52.013	ug/l	98
90) Hexachloroethane	12.518	117	61342	57.198	ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	159552	50.687	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	19922	45.030	ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	97532	47.675	ug/l	99
94) Hexachlorobutadiene	13.707	225	34324	49.395	ug/l	99
95) Naphthalene	13.756	128	283930	45.578	ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	91741	48.208	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101425\
Data File : VX048153.D
Acq On : 14 Oct 2025 10:02
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 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 02:39:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

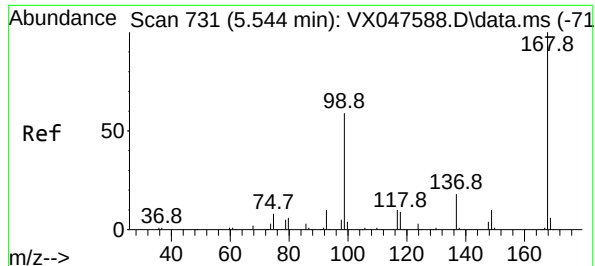
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025





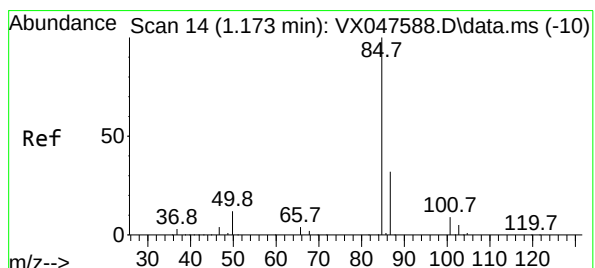
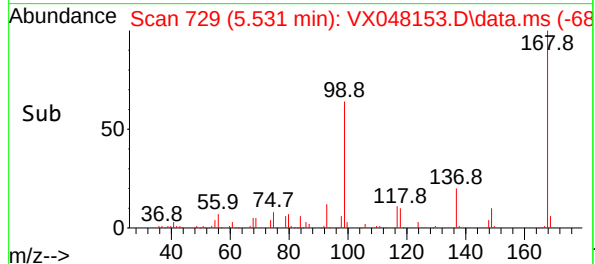
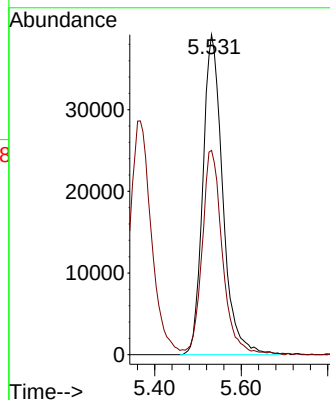
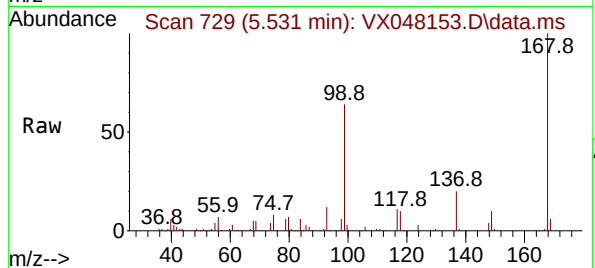
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 71
Delta R.T. -0.013 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 124958
Ion Ratio Lower Upper
168 100
99 63.6 48.8 73.2

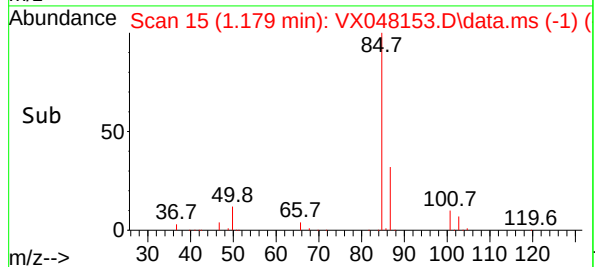
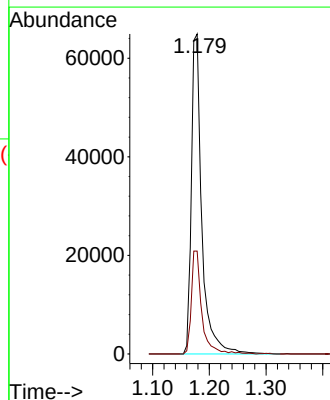
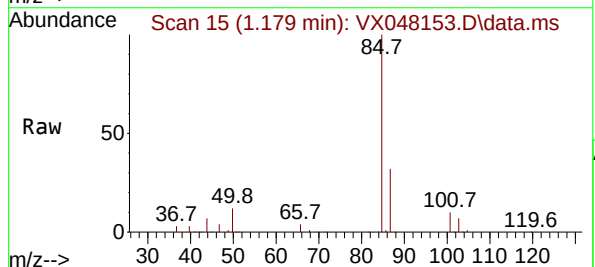
Manual Integrations
APPROVED

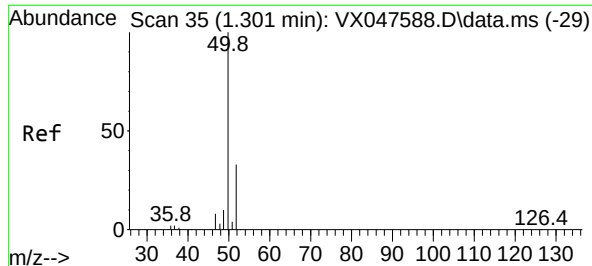
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#2
Dichlorodifluoromethane
Concen: 64.394 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

Tgt Ion: 85 Resp: 83323
Ion Ratio Lower Upper
85 100
87 32.1 15.8 47.3





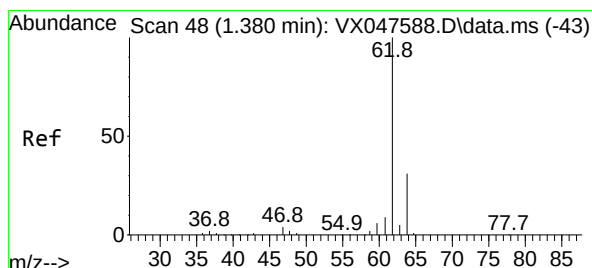
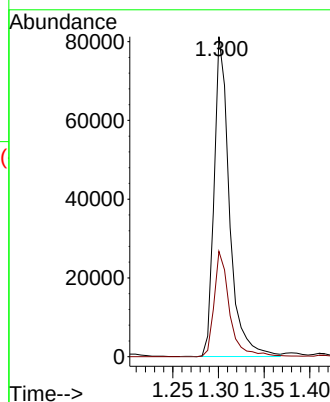
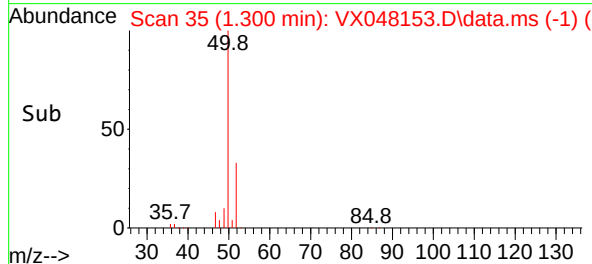
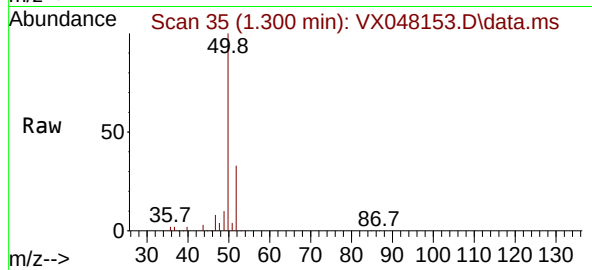
#3
Chloromethane
Concen: 55.622 ug/l
RT: 1.300 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 94592
Ion Ratio Lower Upper
50 100
52 32.9 26.1 39.1

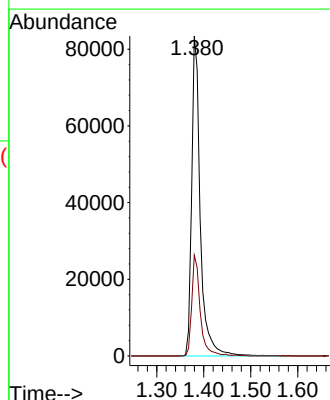
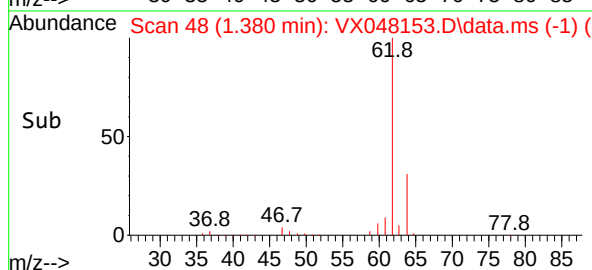
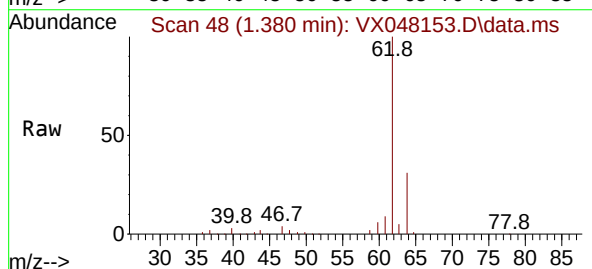
Manual Integrations
APPROVED

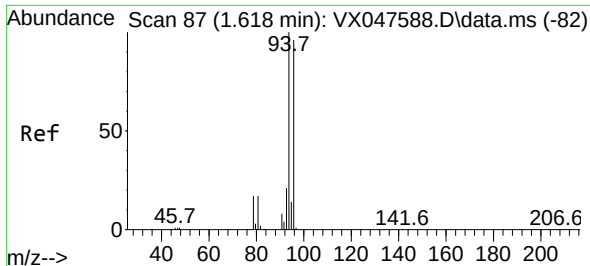
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#4
Vinyl Chloride
Concen: 63.566 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

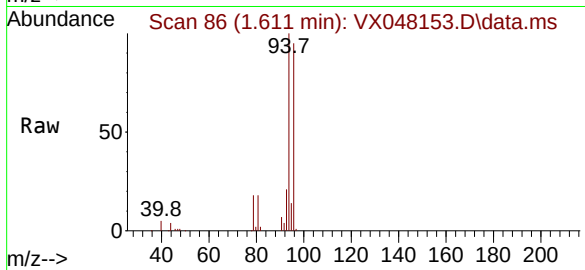
Tgt Ion: 62 Resp: 105820
Ion Ratio Lower Upper
62 100
64 31.5 24.9 37.3





#5
Bromomethane
Concen: 61.550 ug/l
RT: 1.611 min Scan# 80
Delta R.T. -0.006 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

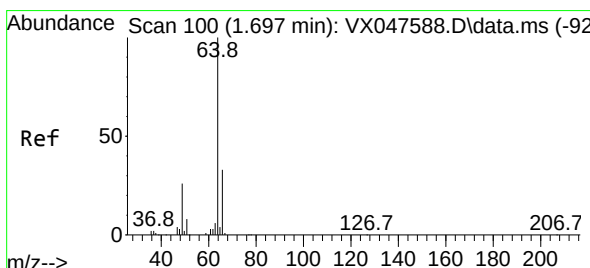
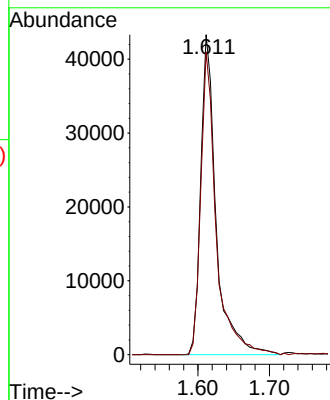
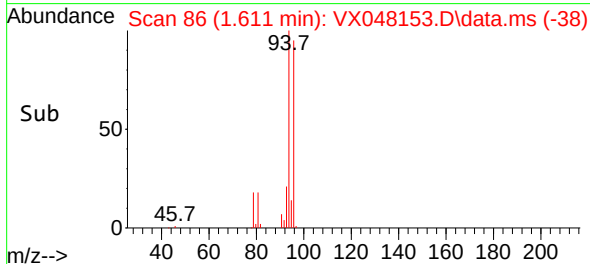
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



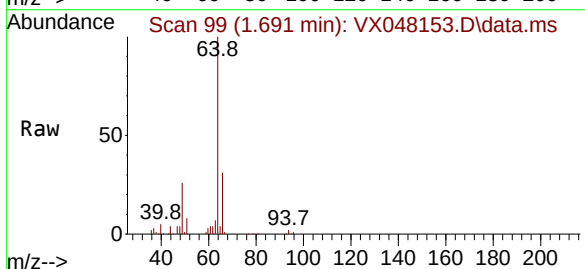
Tgt Ion: 94 Resp: 6497
Ion Ratio Lower Upper
94 100
96 94.7 76.6 115.0

Manual Integrations
APPROVED

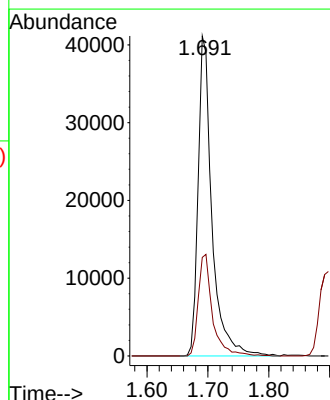
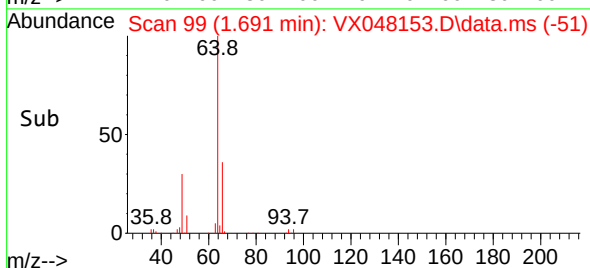
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

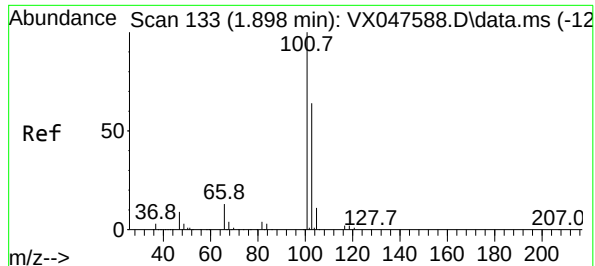


#6
Chloroethane
Concen: 58.162 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02



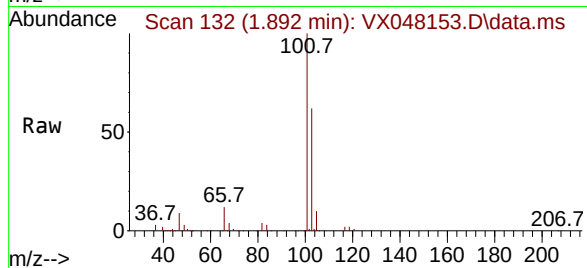
Tgt Ion: 64 Resp: 64713
Ion Ratio Lower Upper
64 100
66 30.8 26.1 39.1





#7
Trichlorofluoromethane
Concen: 65.398 ug/l
RT: 1.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

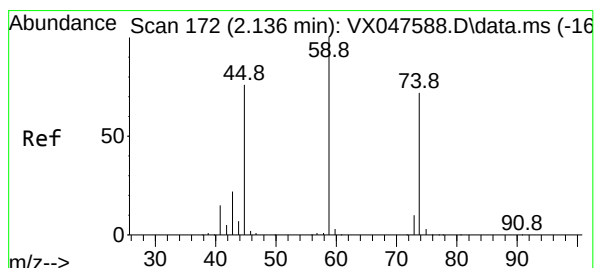
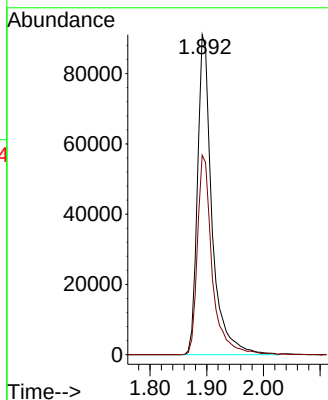
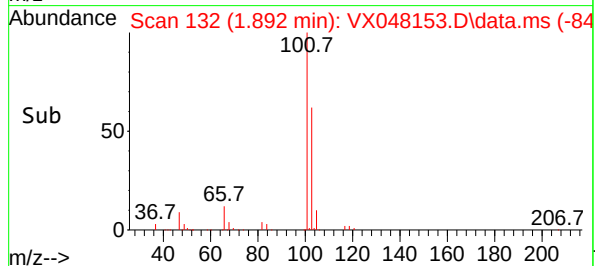
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



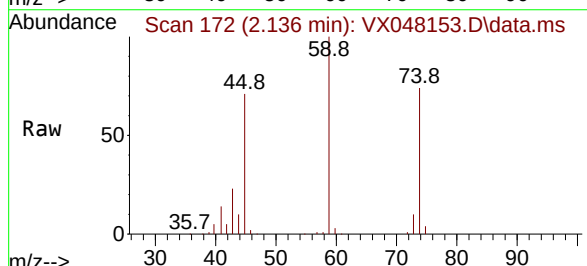
Tgt Ion:101 Resp: 16164
Ion Ratio Lower Upper
101 100
103 62.3 51.4 77.2

Manual Integrations
APPROVED

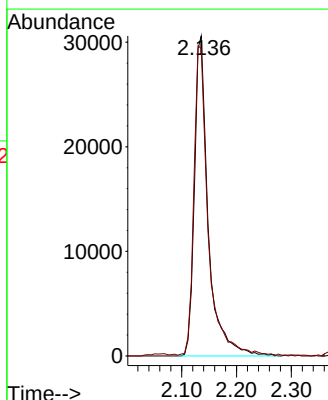
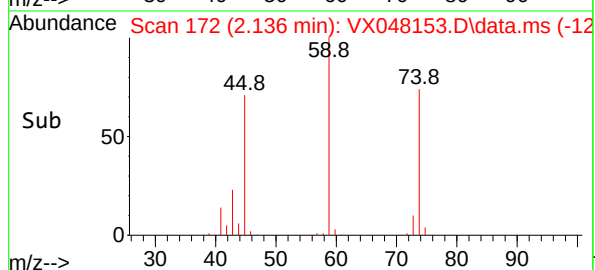
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

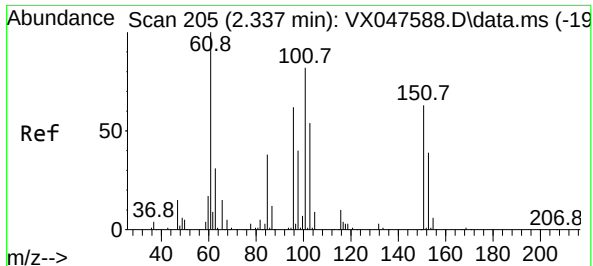


#8
Diethyl Ether
Concen: 53.186 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02



Tgt Ion: 74 Resp: 53778
Ion Ratio Lower Upper
74 100
45 100.9 52.3 156.8





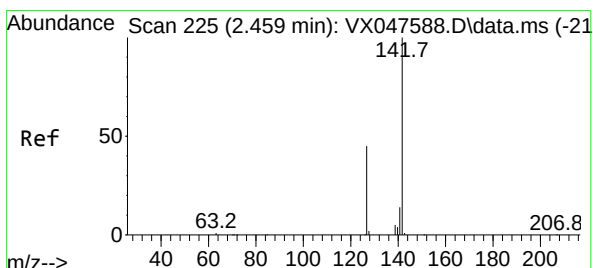
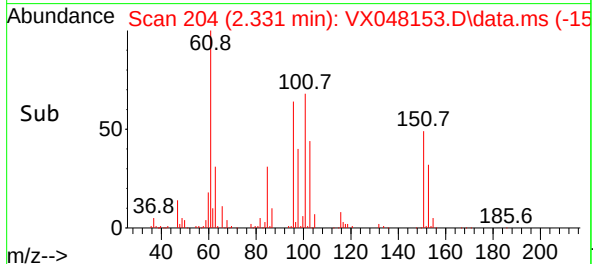
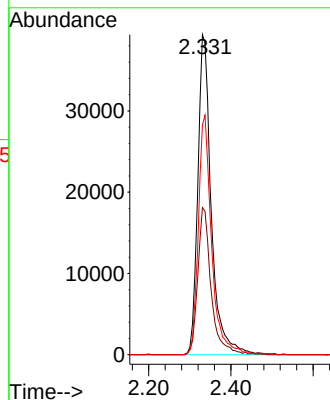
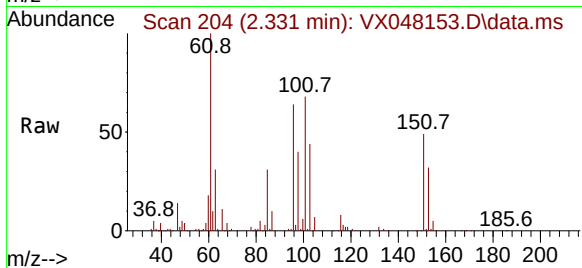
#9
1,1,2-Trichlorotrifluoroethane
Concen: 62.168 ug/l
RT: 2.331 min Scan# 204
Delta R.T. -0.006 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 8985
Ion Ratio Lower Upper
101 100
85 45.5 35.5 53.3
151 73.7 59.4 89.0

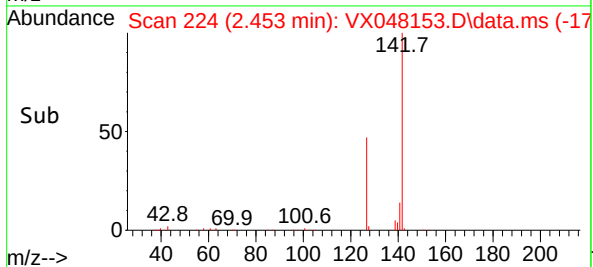
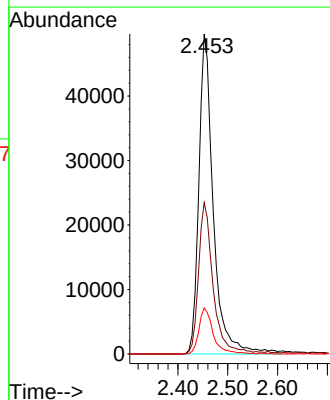
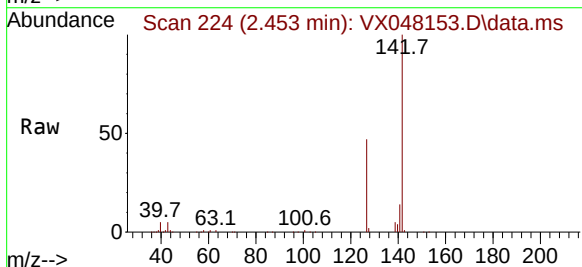
Manual Integrations
APPROVED

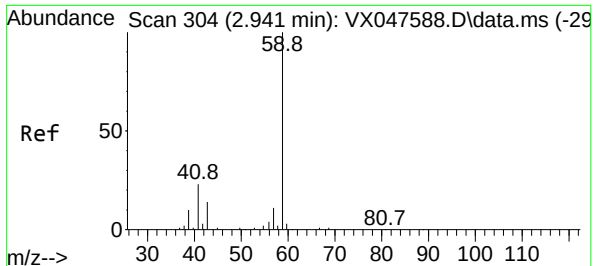
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#10
Methyl Iodide
Concen: 44.362 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

Tgt Ion:142 Resp: 99997
Ion Ratio Lower Upper
142 100
127 47.9 37.2 55.8
141 14.2 11.4 17.0





#11

Tert butyl alcohol

Concen: 213.436 ug/l

RT: 2.940 min Scan# 304

Delta R.T. -0.000 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 4728

Ion Ratio Lower Upper

59 100

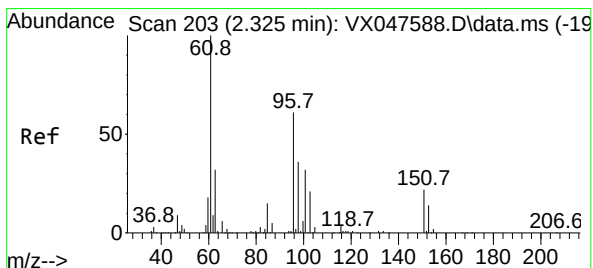
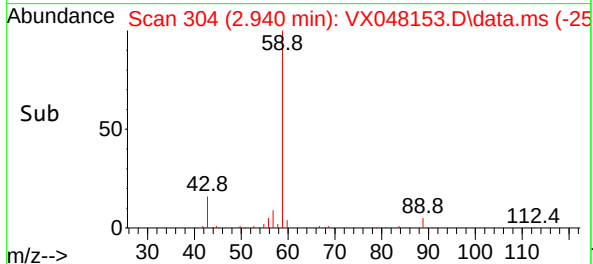
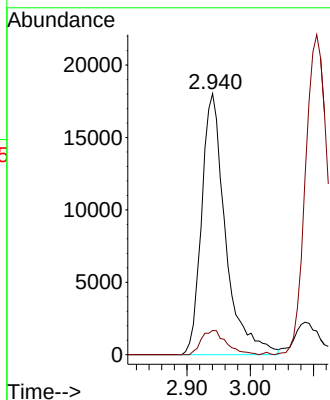
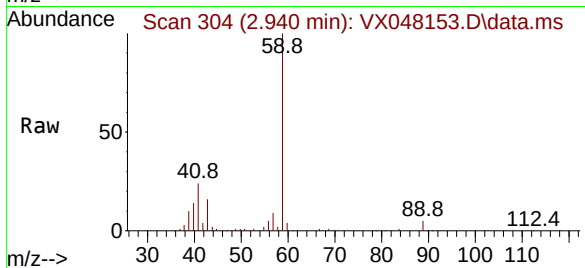
57 9.7 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#12

1,1-Dichloroethene

Concen: 59.068 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

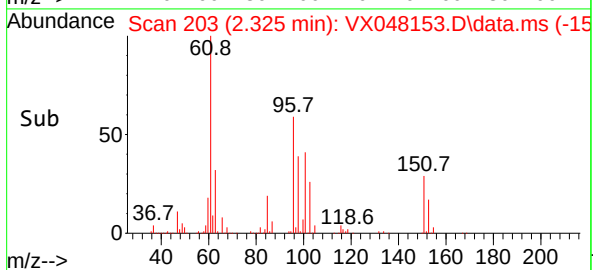
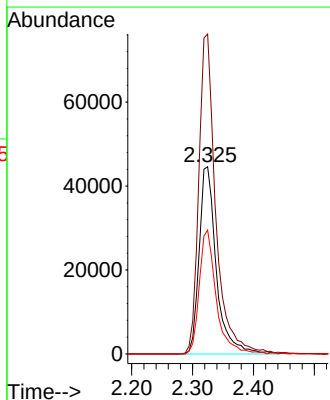
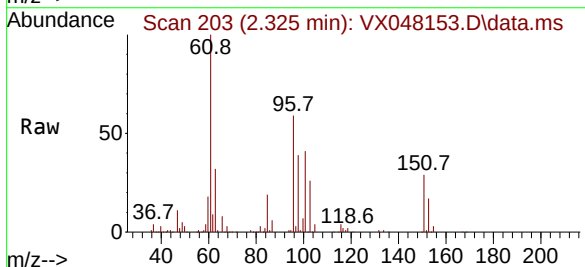
Tgt Ion: 96 Resp: 87694

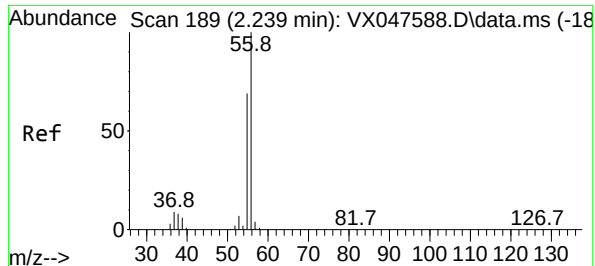
Ion Ratio Lower Upper

96 100

61 170.9 131.0 196.6

98 68.0 47.7 71.5





#13

Acrolein

Concen: 275.177 ug/l

RT: 2.233 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 56174

Ion Ratio Lower Upper

56 100

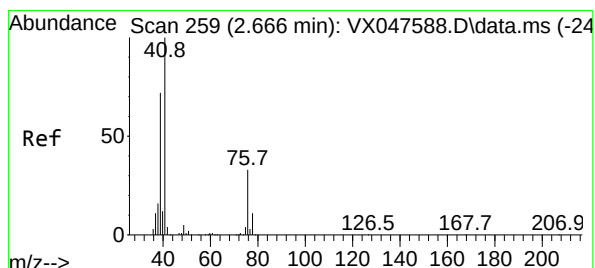
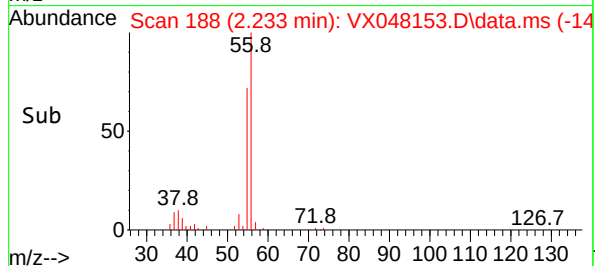
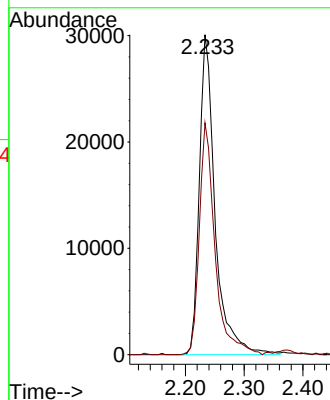
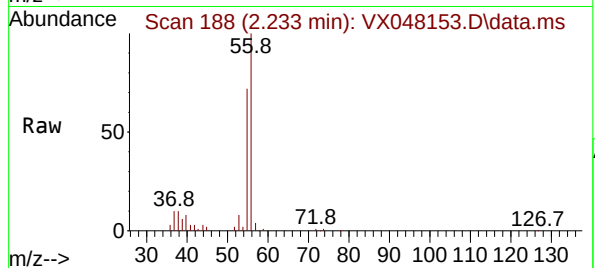
55 72.1 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#14

Allyl chloride

Concen: 50.919 ug/l

RT: 2.666 min Scan# 259

Delta R.T. -0.000 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

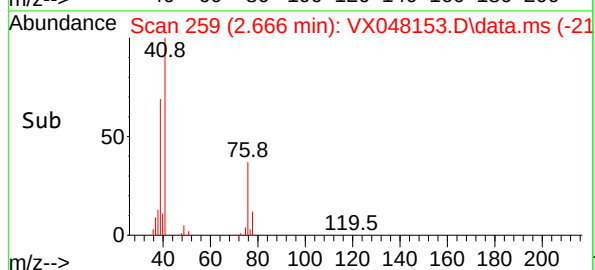
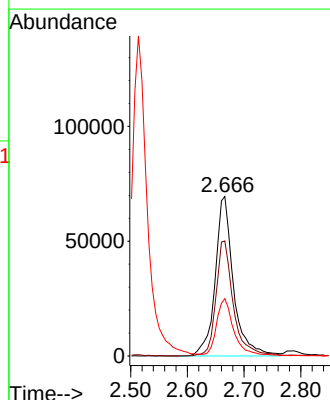
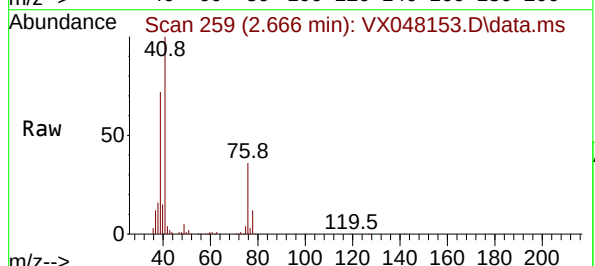
Tgt Ion: 41 Resp: 155995

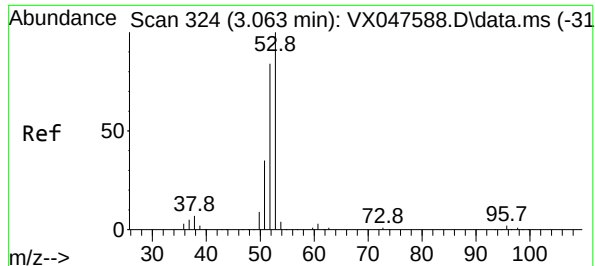
Ion Ratio Lower Upper

41 100

39 68.4 54.7 82.1

76 33.6 25.7 38.5





#15

Acrylonitrile

Concen: 253.713 ug/l

RT: 3.056 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 53 Resp: 20818

Ion Ratio Lower Upper

53 100

52 82.1 66.4 99.6

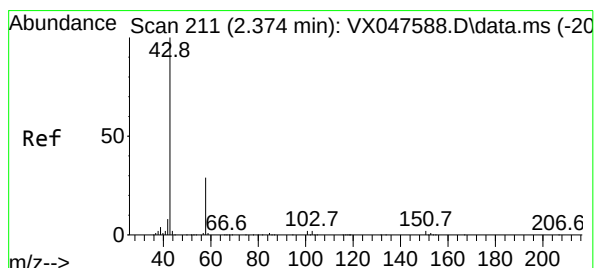
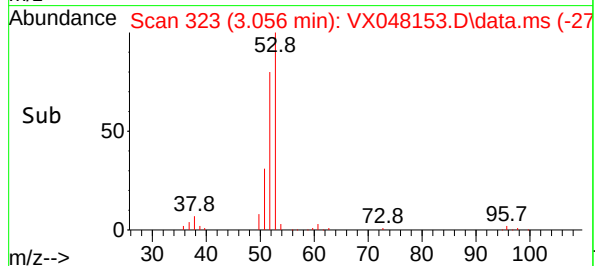
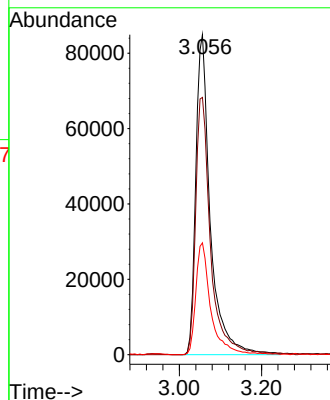
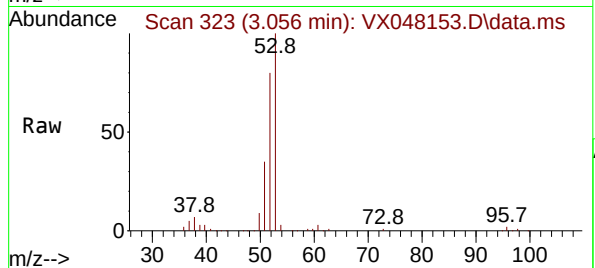
51 36.3 29.5 44.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#16

Acetone

Concen: 229.513 ug/l

RT: 2.373 min Scan# 211

Delta R.T. -0.000 min

Lab File: VX048153.D

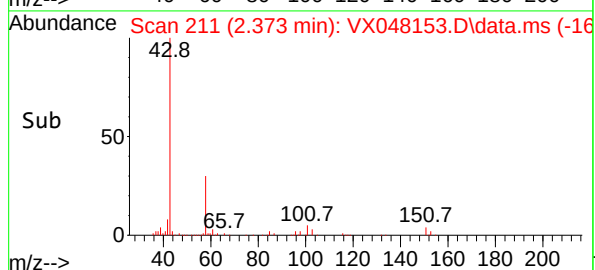
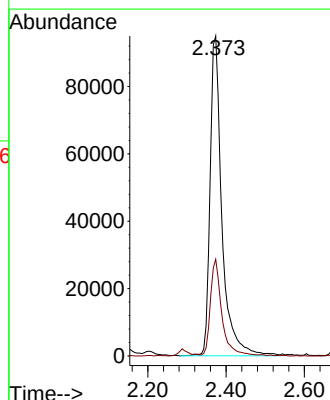
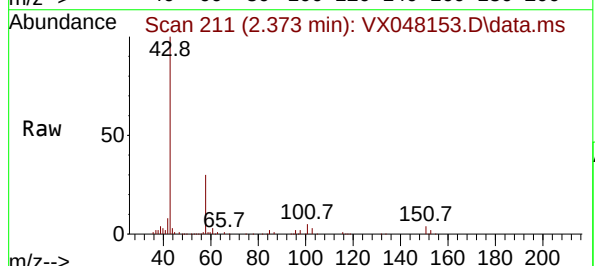
Acq: 14 Oct 2025 10:02

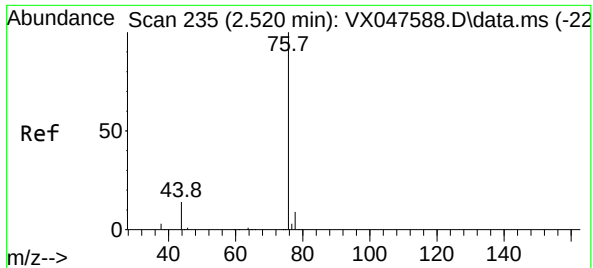
Tgt Ion: 43 Resp: 198490

Ion Ratio Lower Upper

43 100

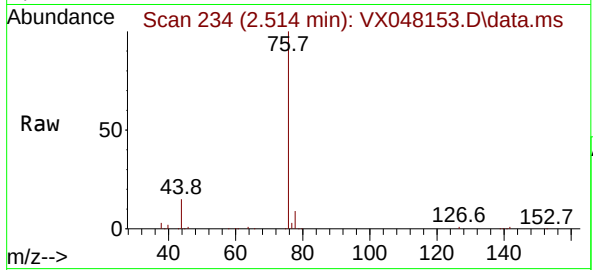
58 30.0 23.4 35.0





#17
Carbon Disulfide
Concen: 64.145 ug/l
RT: 2.514 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

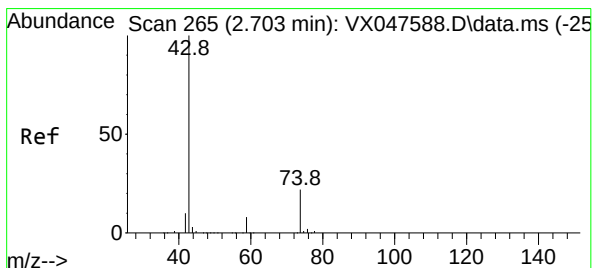
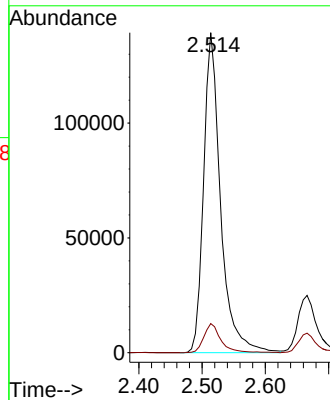
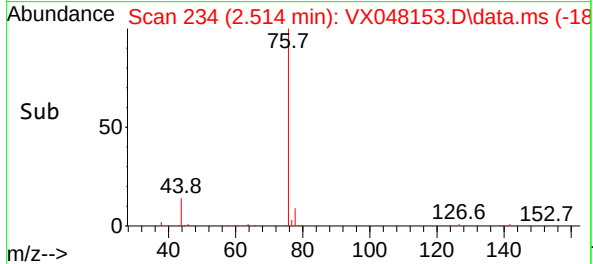
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 76 Resp: 26070
Ion Ratio Lower Upper
76 100
78 9.1 6.8 10.2

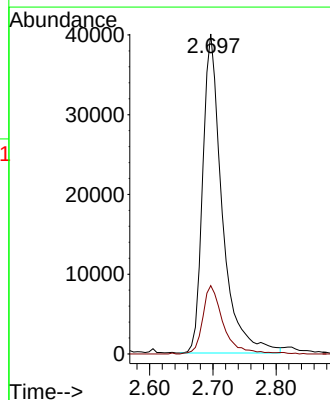
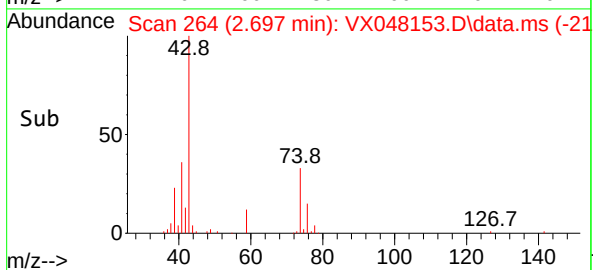
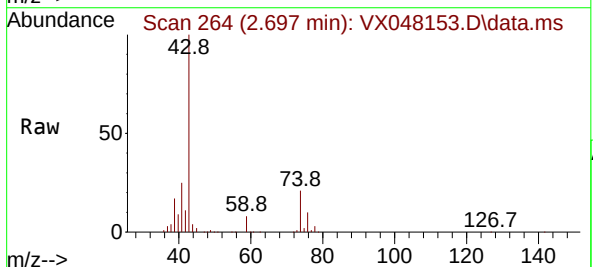
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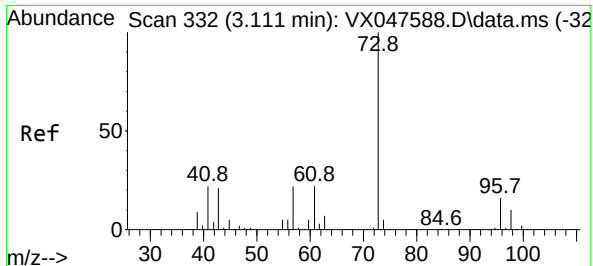
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#18
Methyl Acetate
Concen: 44.499 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

Tgt Ion: 43 Resp: 85646
Ion Ratio Lower Upper
43 100
74 22.3 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 50.140 ug/l

RT: 3.105 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 271738

Ion Ratio Lower Upper

73 100

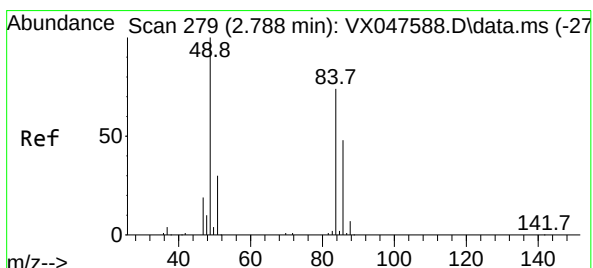
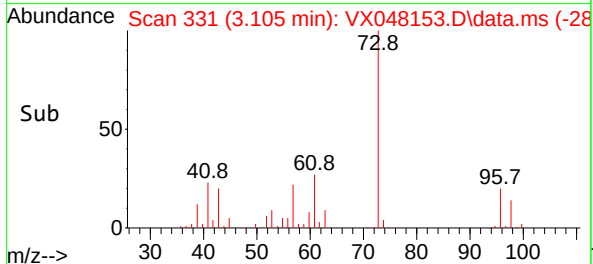
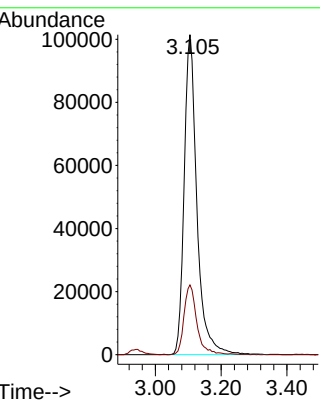
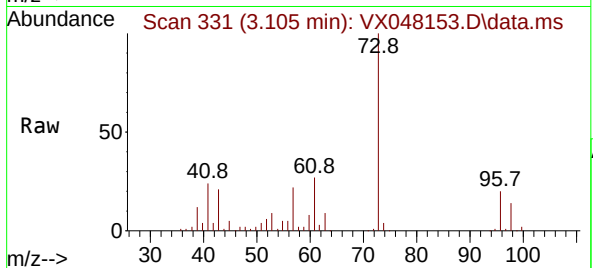
57 21.8 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#20

Methylene Chloride

Concen: 53.153 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Tgt Ion: 84 Resp: 97302

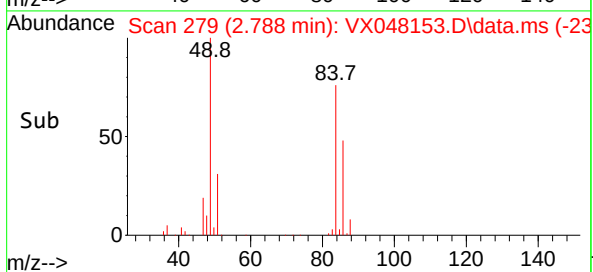
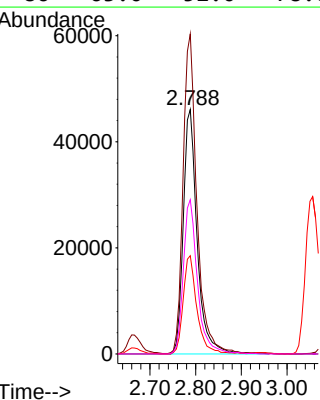
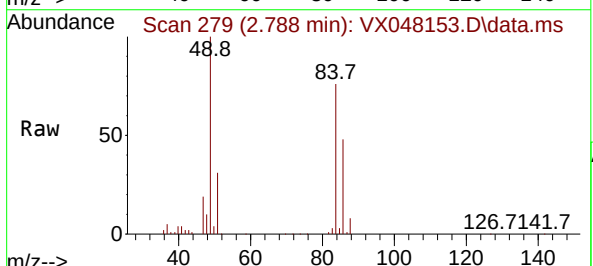
Ion Ratio Lower Upper

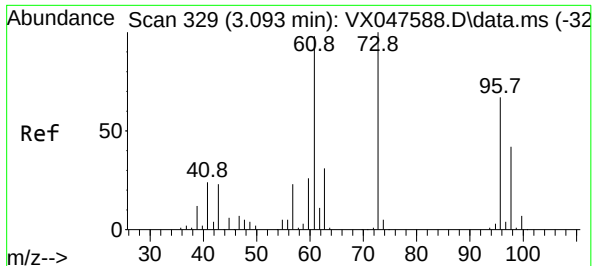
84 100

49 130.7 108.6 162.8

51 40.2 32.6 48.8

86 63.0 52.0 78.0





#21

trans-1,2-Dichloroethene

Concen: 57.678 ug/l

RT: 3.087 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 9219

Ion Ratio Lower Upper

96 100

61 148.8 116.2 174.2

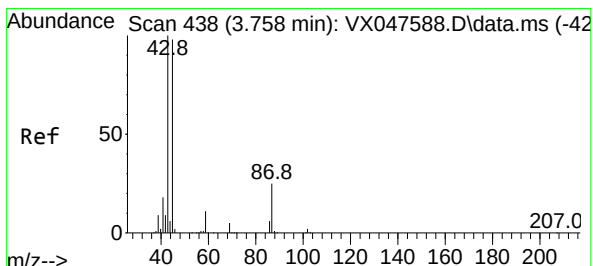
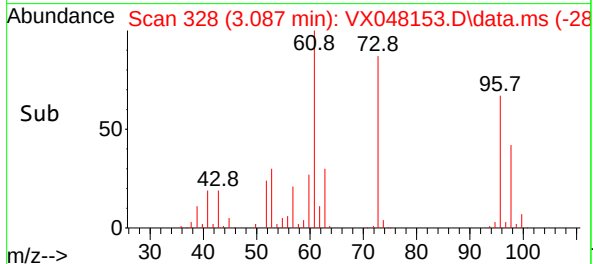
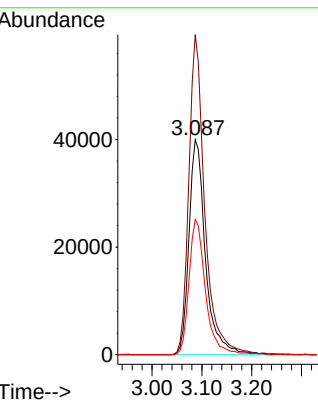
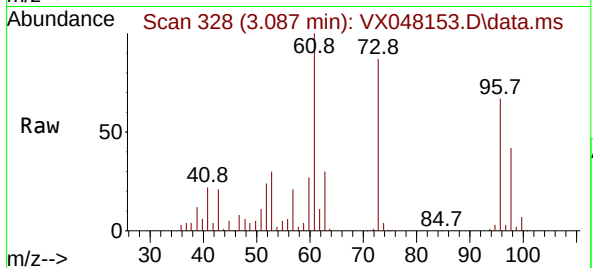
98 62.9 49.3 73.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#22

Diisopropyl ether

Concen: 52.712 ug/l

RT: 3.745 min Scan# 436

Delta R.T. -0.012 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Tgt Ion: 45 Resp: 312969

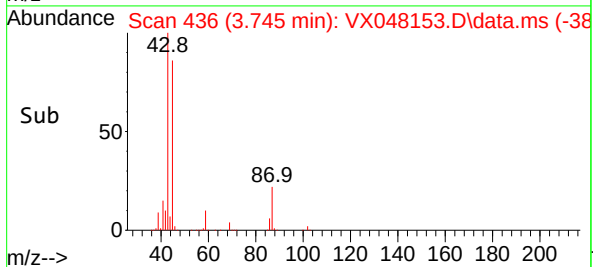
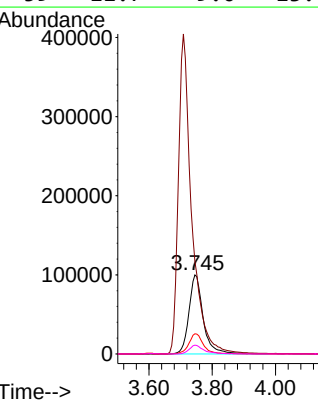
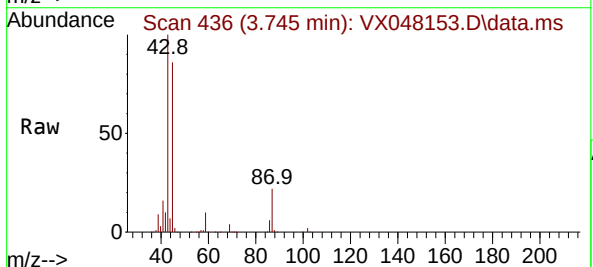
Ion Ratio Lower Upper

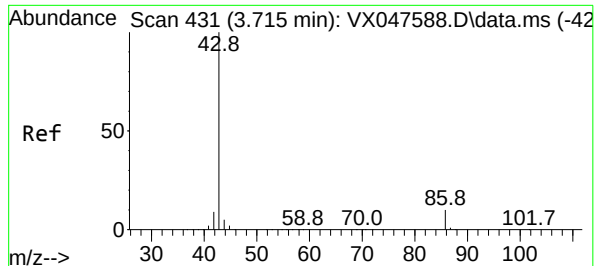
45 100

43 116.4 81.0 121.4

87 25.6 20.3 30.5

59 11.7 9.0 13.4





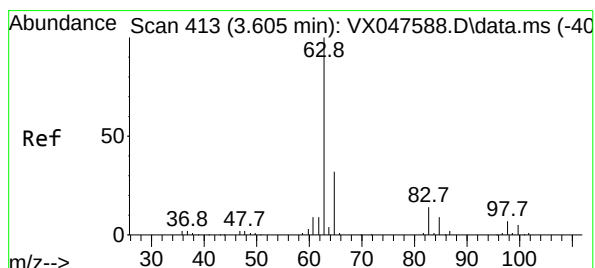
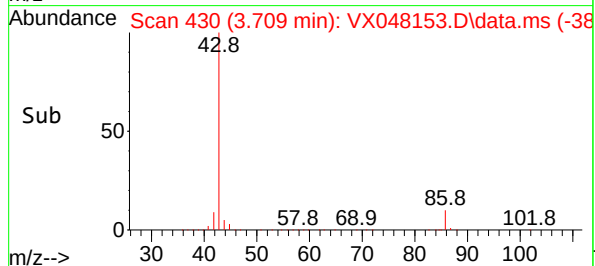
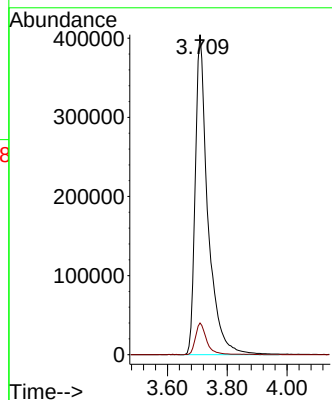
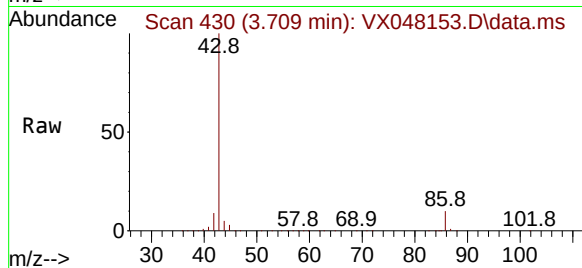
#23
Vinyl Acetate
Concen: 249.999 ug/l
RT: 3.709 min Scan# 411
Delta R.T. -0.006 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 1187970
Ion Ratio Lower Upper
43 100
86 9.8 7.8 11.8

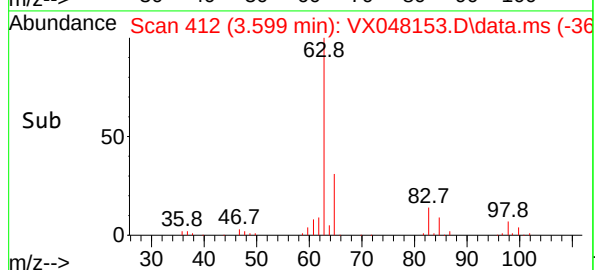
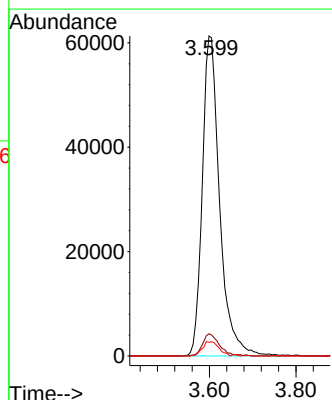
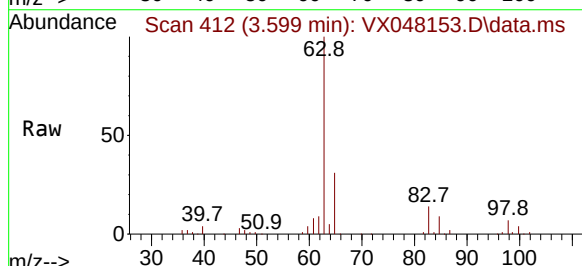
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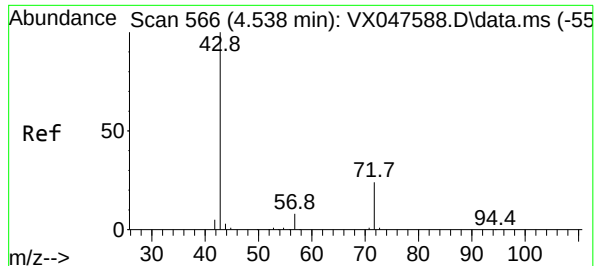
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#24
1,1-Dichloroethane
Concen: 54.042 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

Tgt Ion: 63 Resp: 170542
Ion Ratio Lower Upper
63 100
98 7.6 3.8 11.2
100 4.3 2.3 6.9





#25

2-Butanone

Concen: 229.881 ug/l

RT: 4.532 min Scan# 566

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 247988

Ion Ratio Lower Upper

43 100

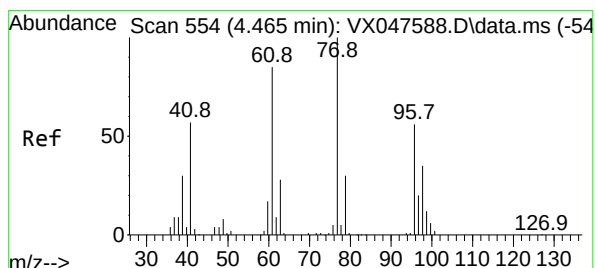
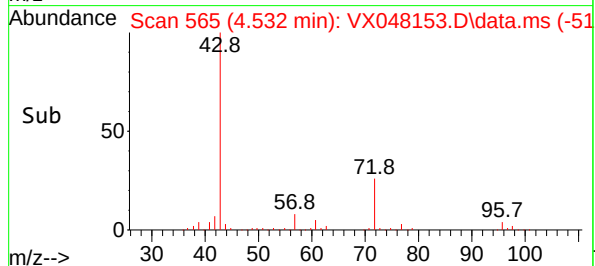
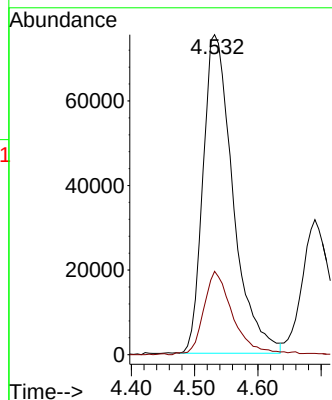
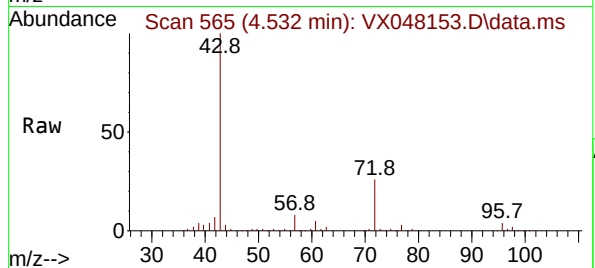
72 25.6 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#26

2,2-Dichloropropane

Concen: 53.086 ug/l

RT: 4.465 min Scan# 554

Delta R.T. -0.000 min

Lab File: VX048153.D

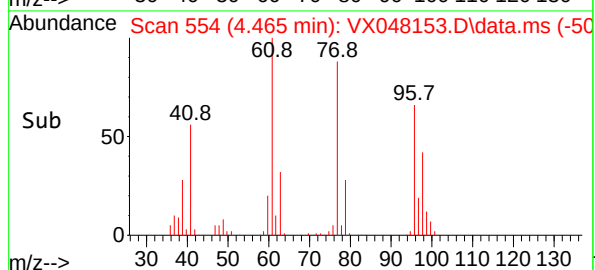
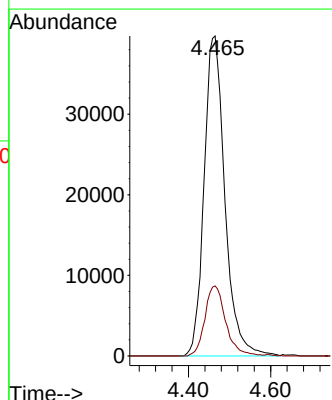
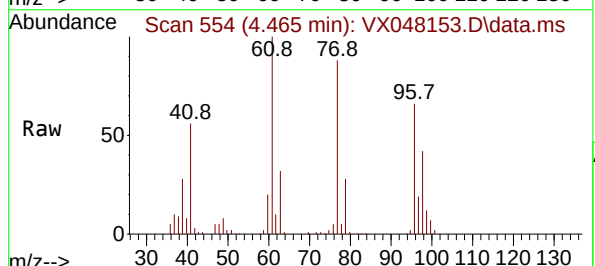
Acq: 14 Oct 2025 10:02

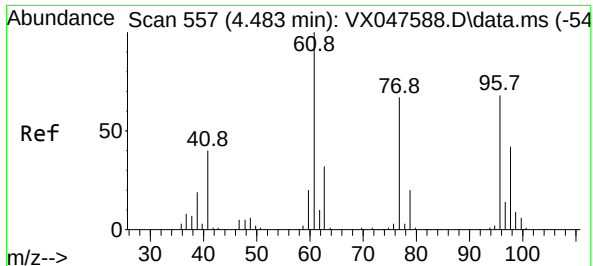
Tgt Ion: 77 Resp: 139256

Ion Ratio Lower Upper

77 100

97 21.9 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 53.263 ug/l

RT: 4.477 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 10426

Ion Ratio Lower Upper

96 100

61 149.9 0.0 303.2

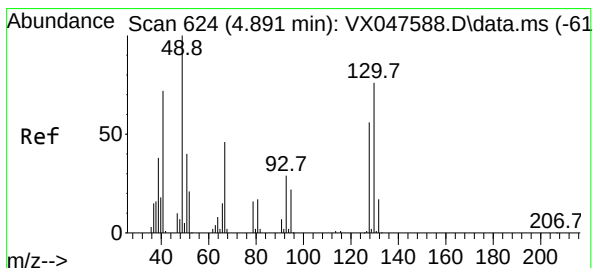
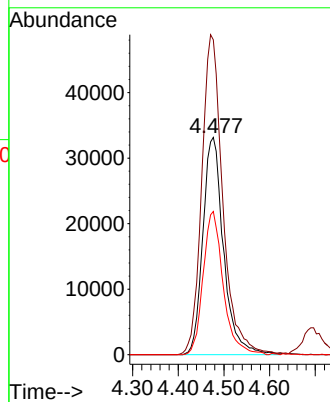
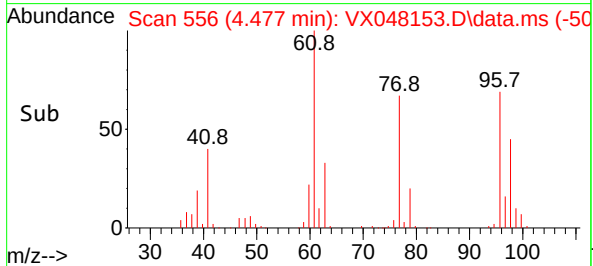
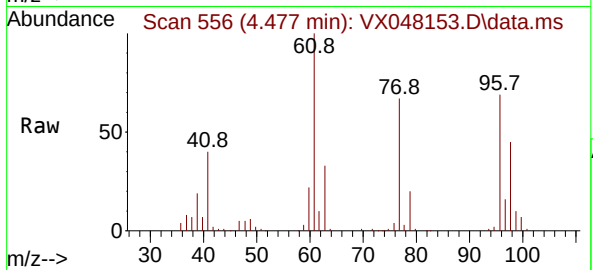
98 63.9 0.0 127.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#28

Bromochloromethane

Concen: 47.909 ug/l

RT: 4.879 min Scan# 622

Delta R.T. -0.012 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

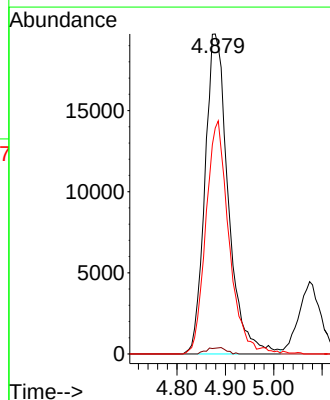
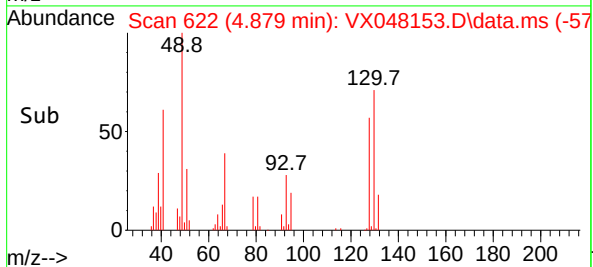
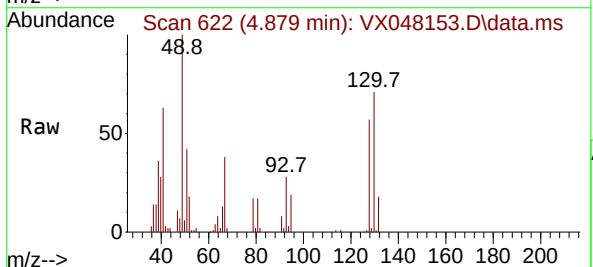
Tgt Ion: 49 Resp: 66003

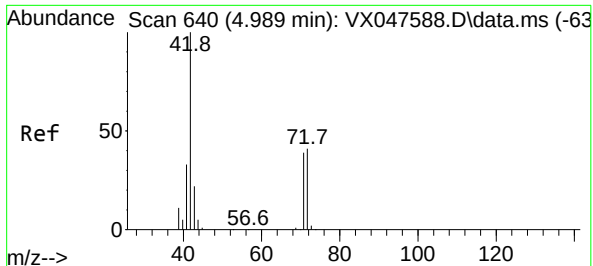
Ion Ratio Lower Upper

49 100

129 1.6 0.0 3.2

130 71.5 57.8 86.8





#29

Tetrahydrofuran

Concen: 234.875 ug/l

RT: 4.983 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 15242

Ion Ratio Lower Upper

42 100

72 42.7 34.2 51.2

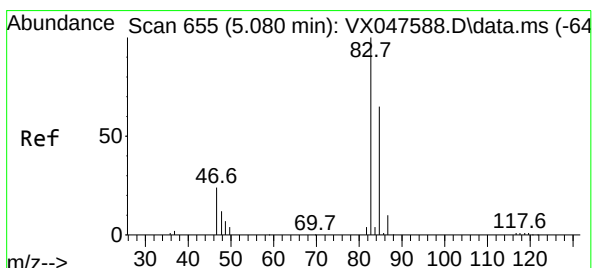
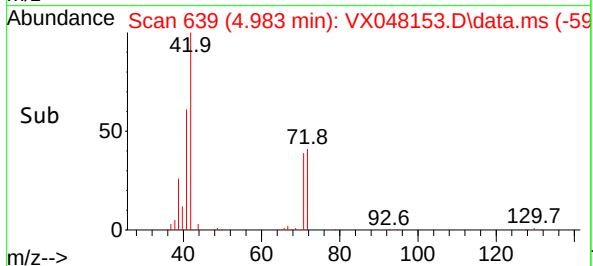
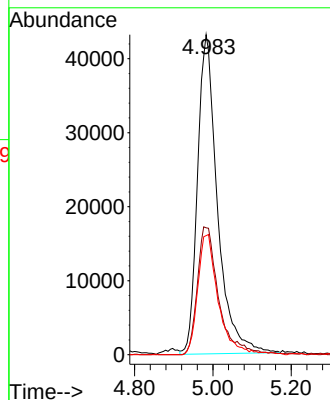
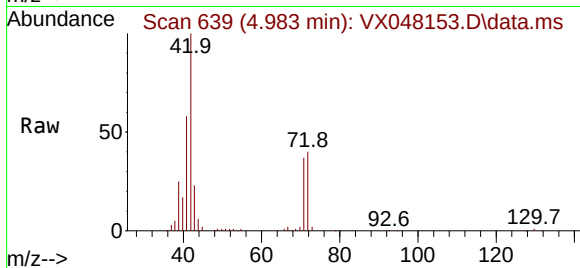
71 39.0 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#30

Chloroform

Concen: 54.659 ug/l

RT: 5.074 min Scan# 654

Delta R.T. -0.006 min

Lab File: VX048153.D

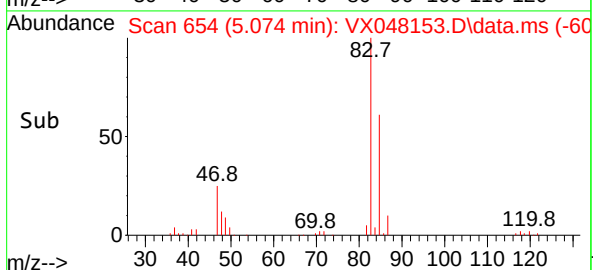
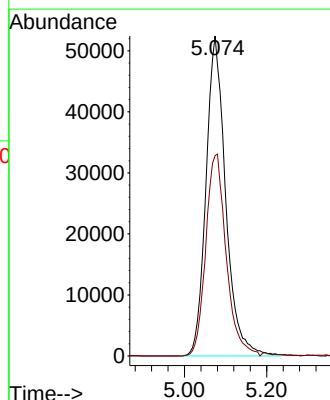
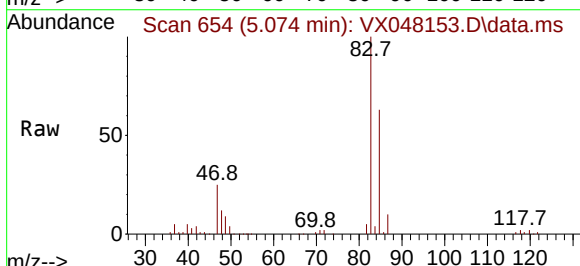
Acq: 14 Oct 2025 10:02

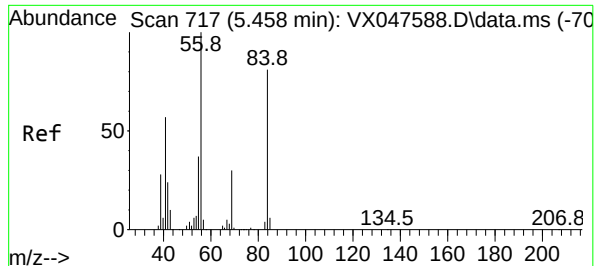
Tgt Ion: 83 Resp: 174306

Ion Ratio Lower Upper

83 100

85 62.6 51.8 77.6





#31

Cyclohexane

Concen: 55.594 ug/l

RT: 5.452 min Scan# 716

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 146119

Ion Ratio Lower Upper

56 100

69 28.1 23.8 35.8

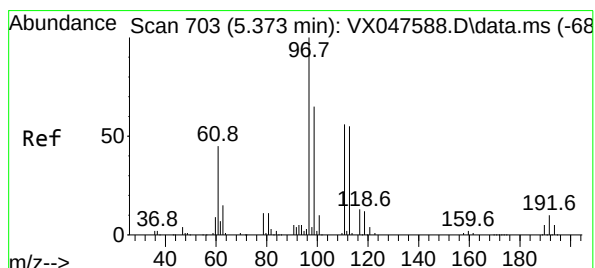
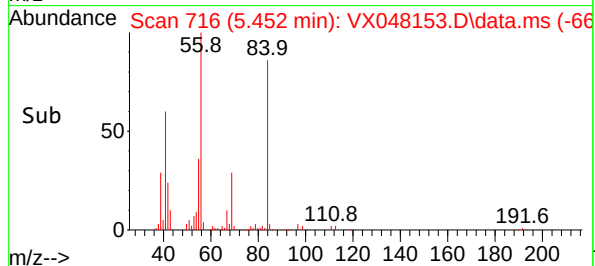
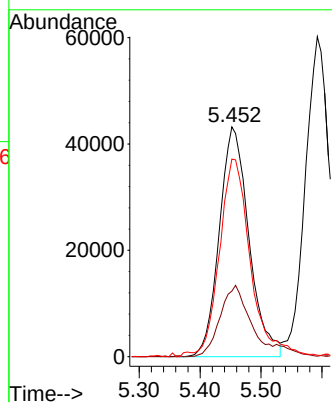
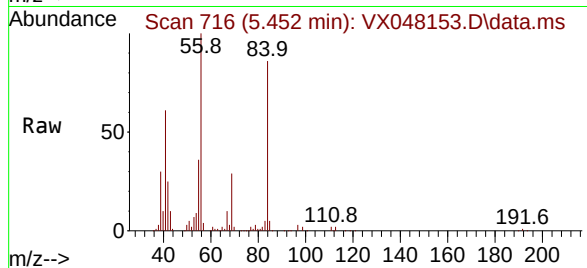
84 86.0 64.6 97.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#32

1,1,1-Trichloroethane

Concen: 56.700 ug/l

RT: 5.367 min Scan# 702

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

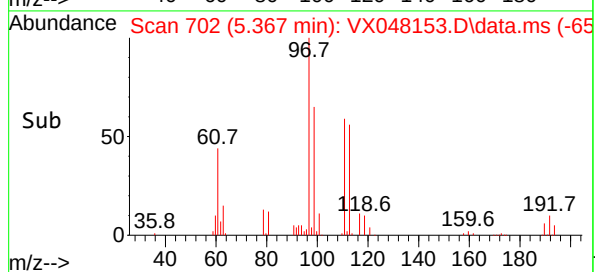
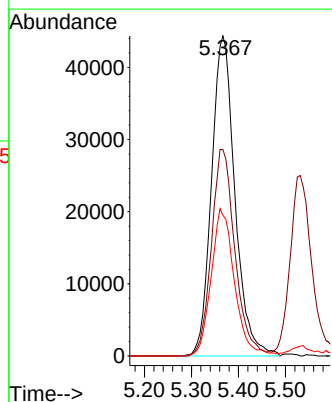
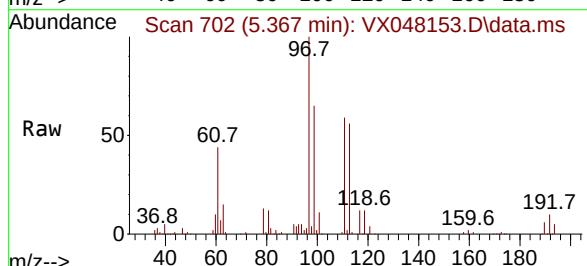
Tgt Ion: 97 Resp: 153370

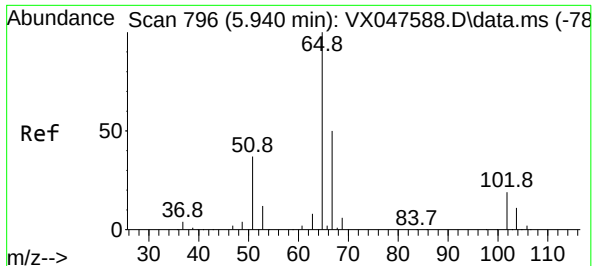
Ion Ratio Lower Upper

97 100

99 64.9 50.6 76.0

61 45.8 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 53.069 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 10555

Ion Ratio Lower Upper

65 100

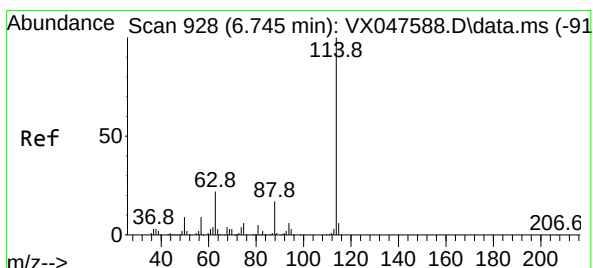
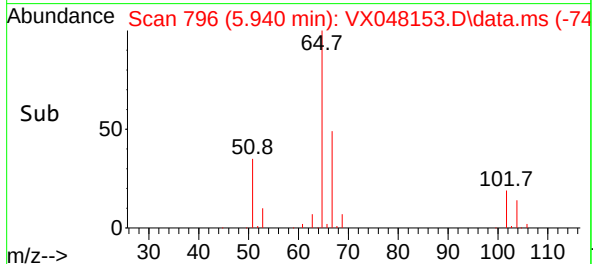
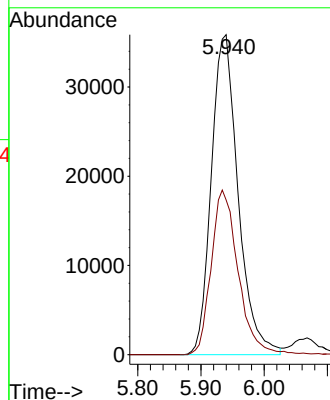
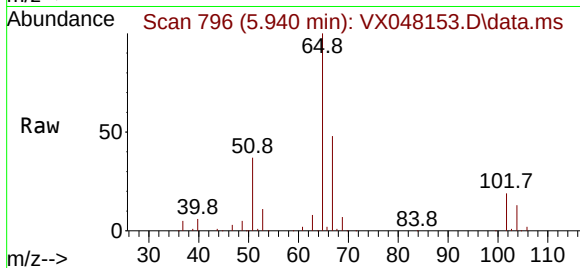
67 52.0 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.739 min Scan# 927

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

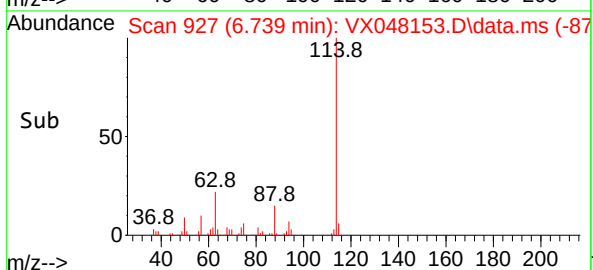
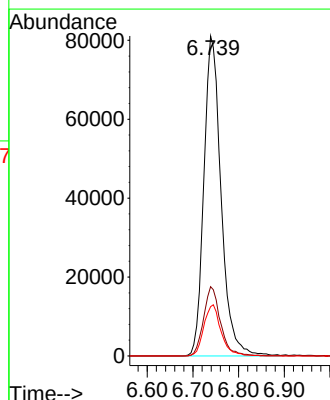
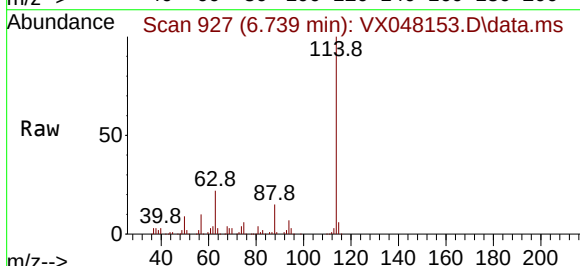
Tgt Ion:114 Resp: 212282

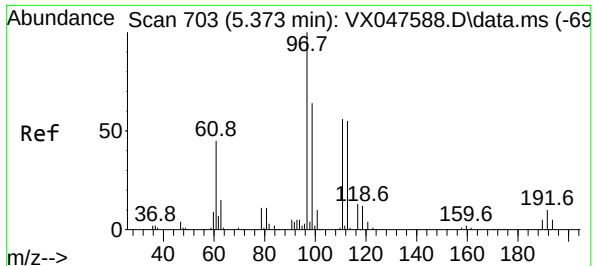
Ion Ratio Lower Upper

114 100

63 21.6 0.0 44.0

88 15.4 0.0 34.2





#35

Dibromofluoromethane

Concen: 58.375 ug/l

RT: 5.367 min Scan# 703

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

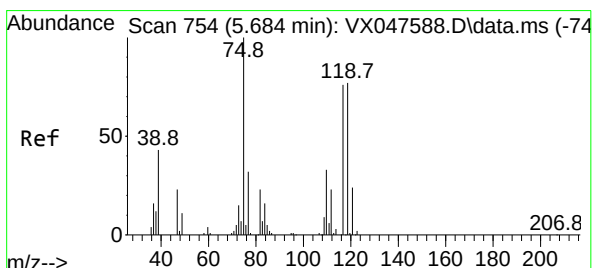
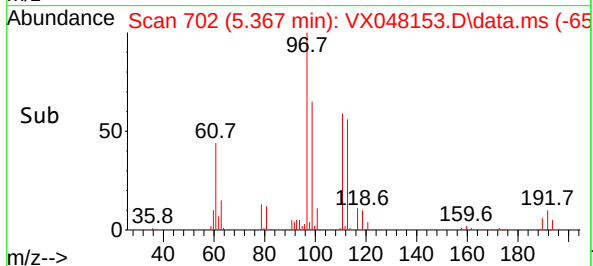
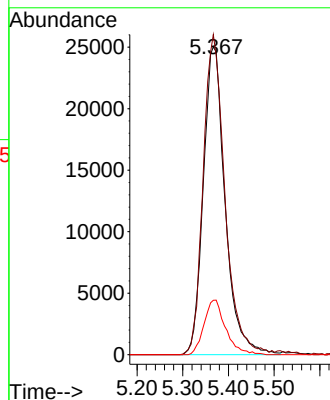
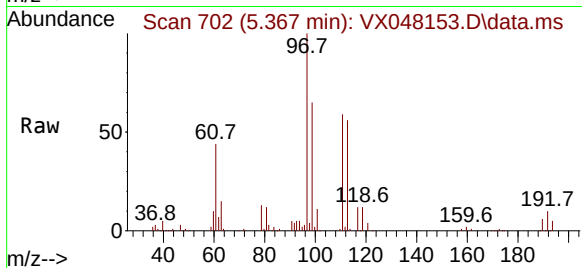
VSTDCCC050

Tgt Ion:	113	Resp:	8310
Ion	Ratio	Lower	Upper
113	100		
111	103.8	80.9	121.3
192	17.6	14.2	21.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#36

1,1-Dichloropropene

Concen: 56.673 ug/l

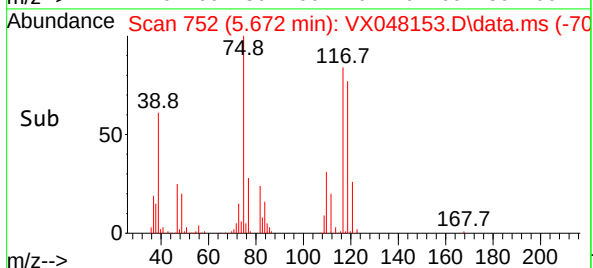
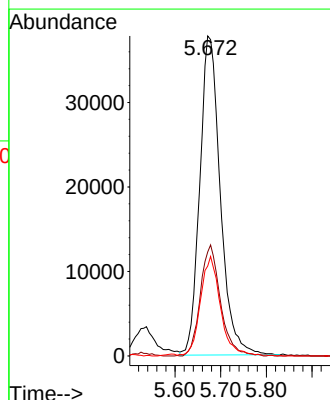
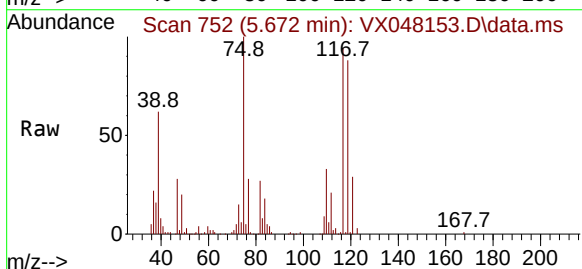
RT: 5.672 min Scan# 752

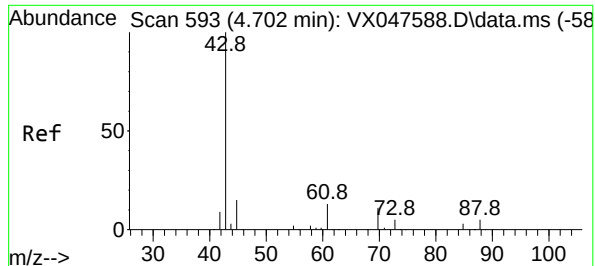
Delta R.T. -0.012 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Tgt Ion:	75	Resp:	117898
Ion	Ratio	Lower	Upper
75	100		
110	34.1	16.7	50.1
77	30.5	24.3	36.5





#37

Ethyl Acetate

Concen: 47.964 ug/l

RT: 4.690 min Scan# 593

Delta R.T. -0.012 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 106830

Ion Ratio Lower Upper

43 100

61 12.2 9.8 14.8

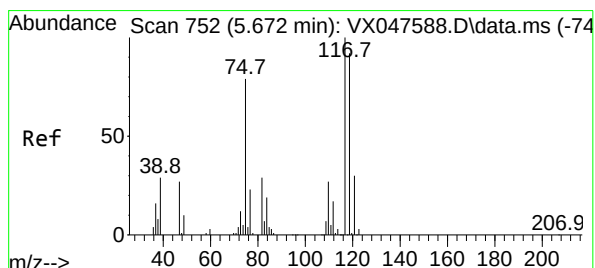
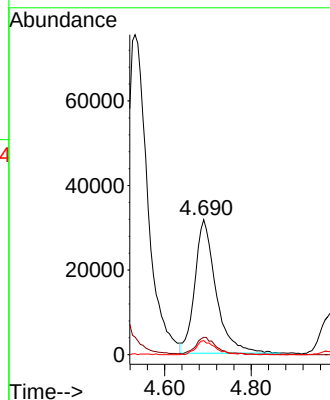
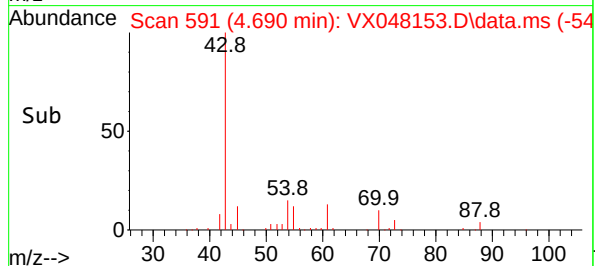
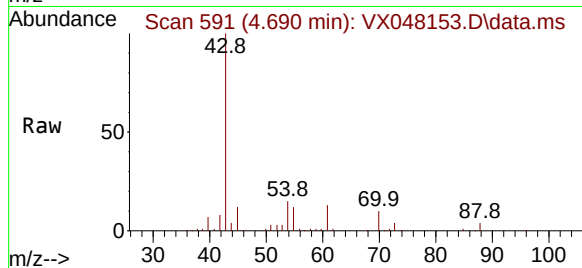
70 9.5 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#38

Carbon Tetrachloride

Concen: 60.555 ug/l

RT: 5.659 min Scan# 750

Delta R.T. -0.012 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

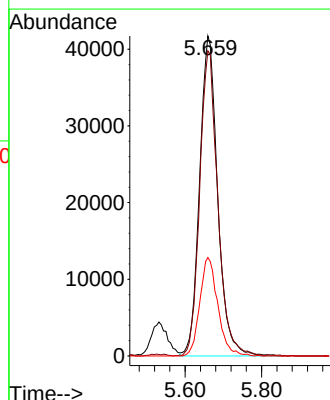
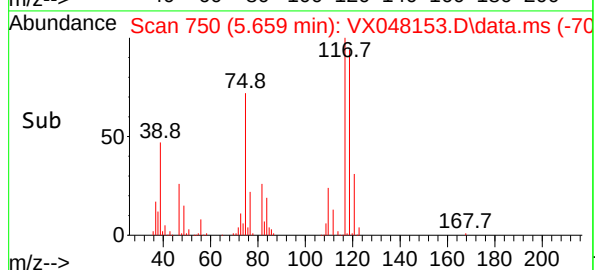
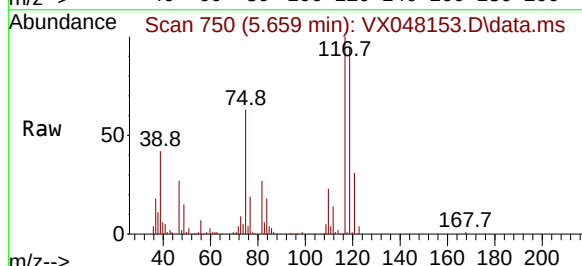
Tgt Ion:117 Resp: 136874

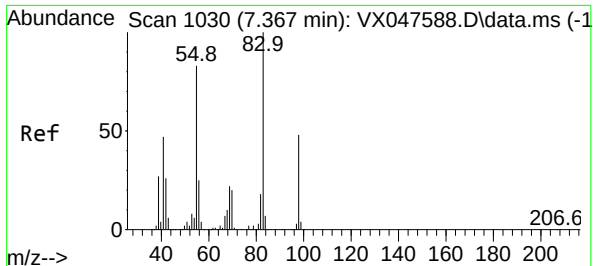
Ion Ratio Lower Upper

117 100

119 95.1 73.4 110.2

121 30.7 23.8 35.6





#39

Methylcyclohexane

Concen: 59.319 ug/l

RT: 7.366 min Scan# 1030

Delta R.T. -0.000 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 140080

Ion Ratio Lower Upper

83 100

55 80.8 66.4 99.6

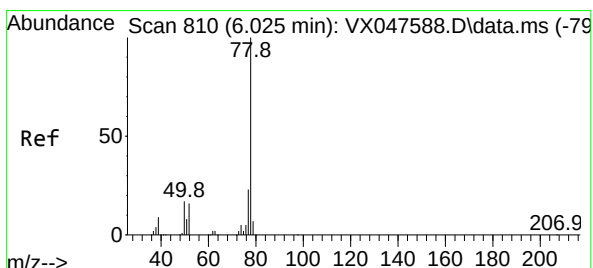
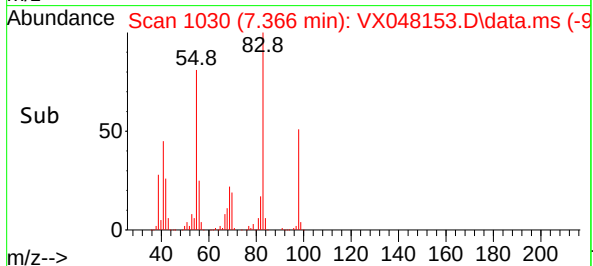
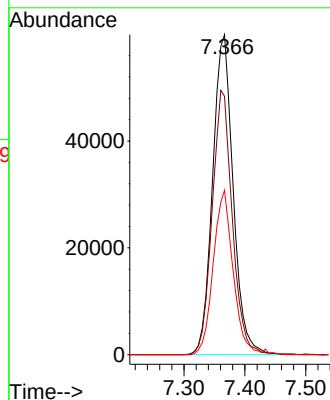
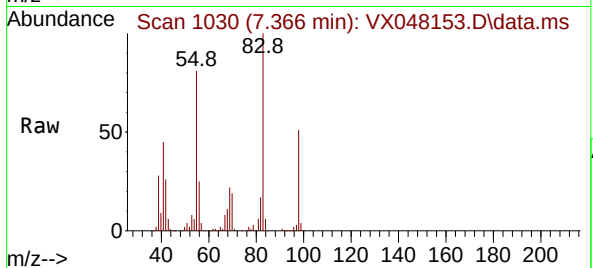
98 51.4 38.1 57.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#40

Benzene

Concen: 56.422 ug/l

RT: 6.019 min Scan# 809

Delta R.T. -0.006 min

Lab File: VX048153.D

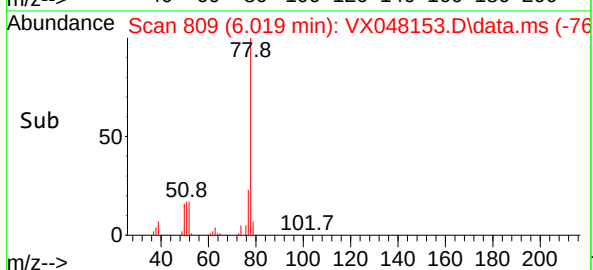
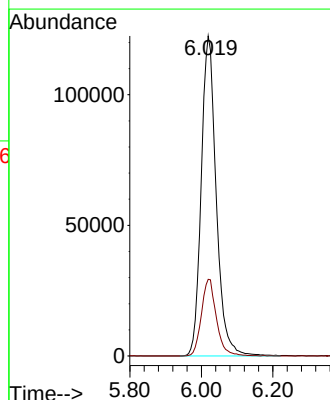
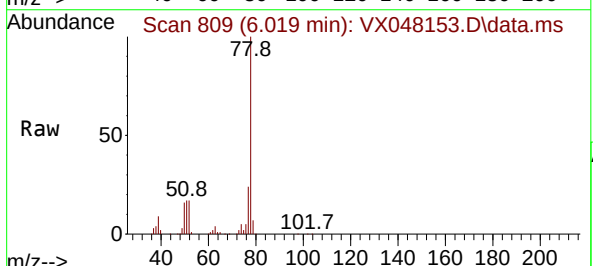
Acq: 14 Oct 2025 10:02

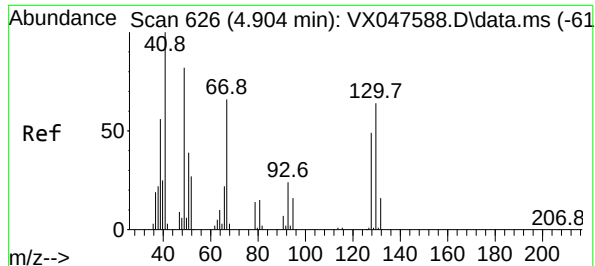
Tgt Ion: 78 Resp: 356505

Ion Ratio Lower Upper

78 100

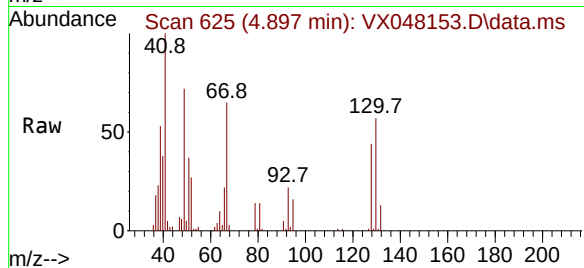
77 23.9 18.8 28.2





#41
Methacrylonitrile
Concen: 51.733 ug/l
RT: 4.897 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

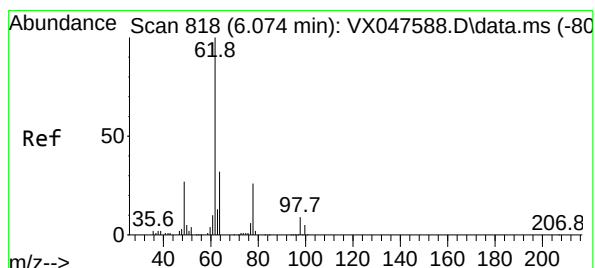
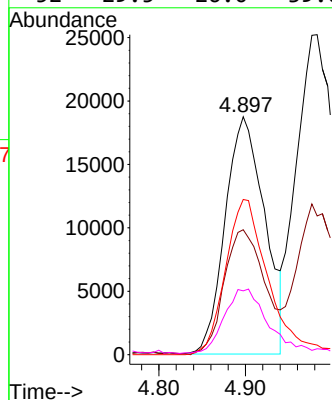
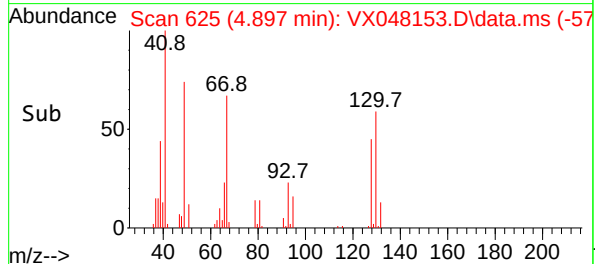
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



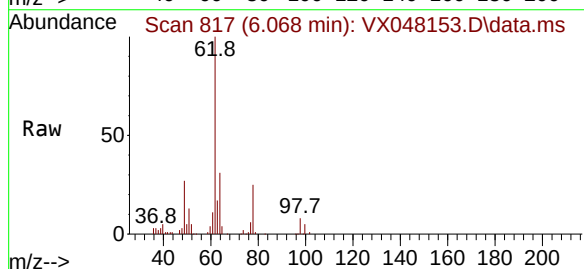
Tgt Ion: 41 Resp: 59489
Ion Ratio Lower Upper
41 100
39 54.3 43.3 64.9
67 71.8 58.6 87.8
52 29.5 26.0 39.0

Manual Integrations
APPROVED

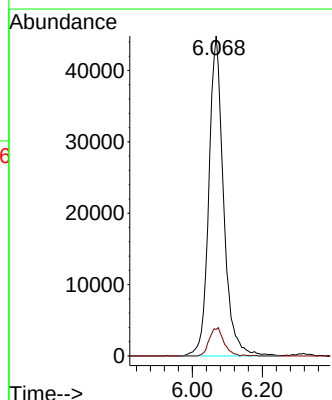
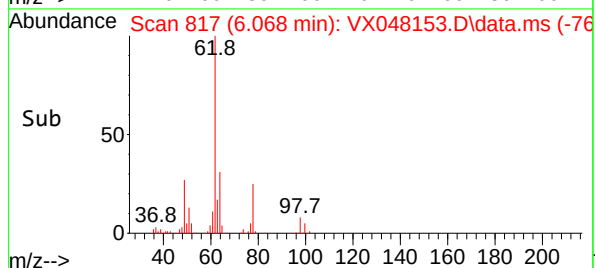
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

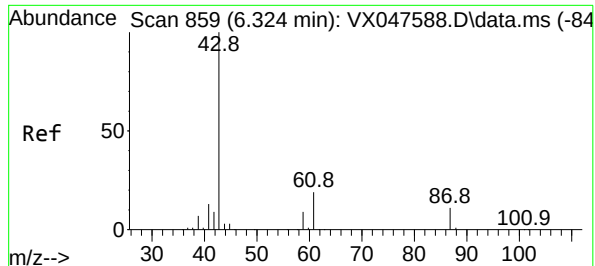


#42
1,2-Dichloroethane
Concen: 54.535 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02



Tgt Ion: 62 Resp: 131107
Ion Ratio Lower Upper
62 100
98 8.7 0.0 17.0





#43

Isopropyl Acetate

Concen: 47.003 ug/l

RT: 6.318 min Scan# 81

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 171708

Ion Ratio Lower Upper

43 100

61 19.0 15.2 22.8

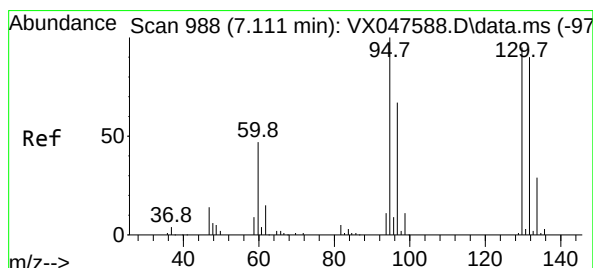
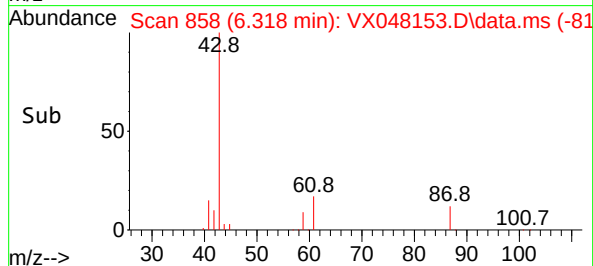
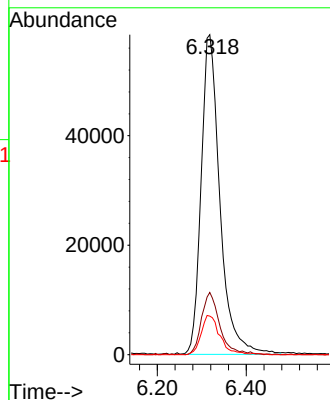
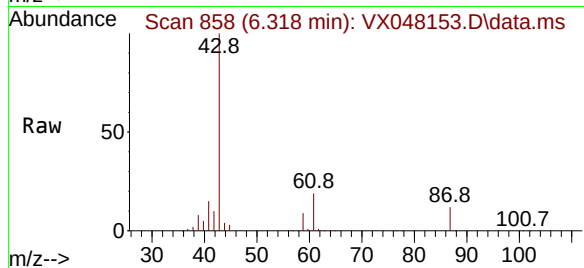
87 12.2 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#44

Trichloroethene

Concen: 57.700 ug/l

RT: 7.104 min Scan# 987

Delta R.T. -0.006 min

Lab File: VX048153.D

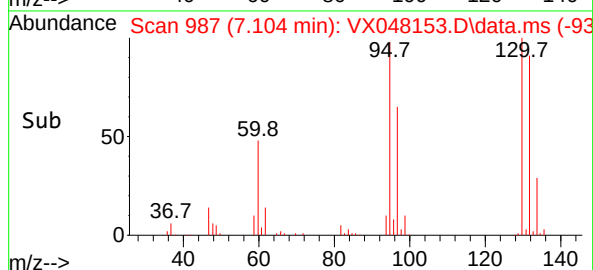
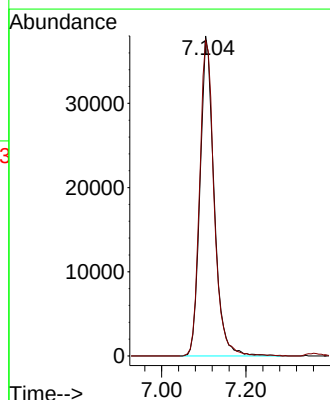
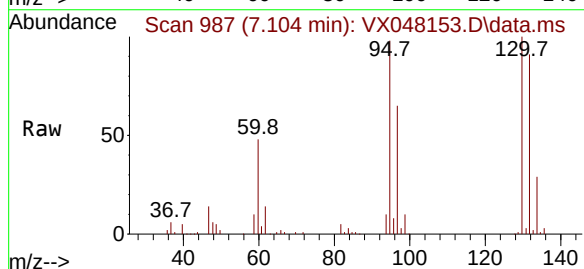
Acq: 14 Oct 2025 10:02

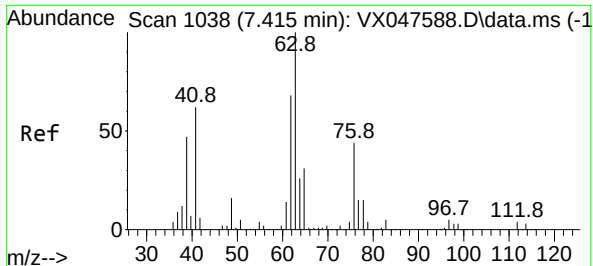
Tgt Ion:130 Resp: 88141

Ion Ratio Lower Upper

130 100

95 98.5 0.0 210.8





#45

1,2-Dichloropropane

Concen: 55.124 ug/l

RT: 7.409 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 8918

Ion Ratio Lower Upper

63 100

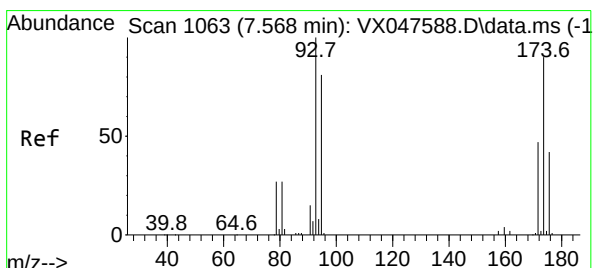
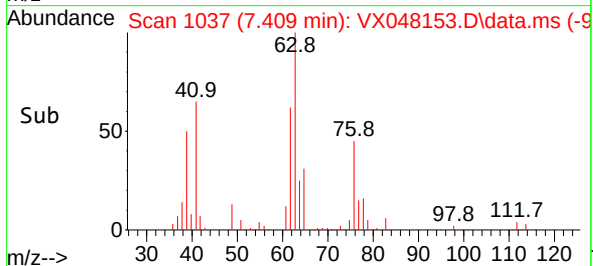
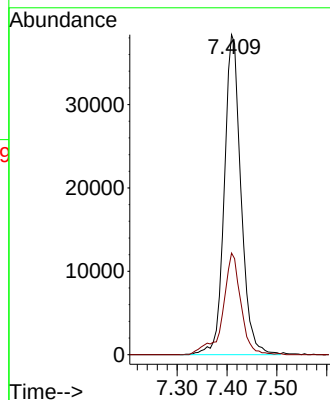
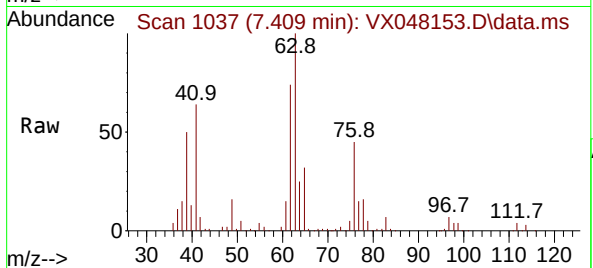
65 31.8 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#46

Dibromomethane

Concen: 54.583 ug/l

RT: 7.562 min Scan# 1062

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

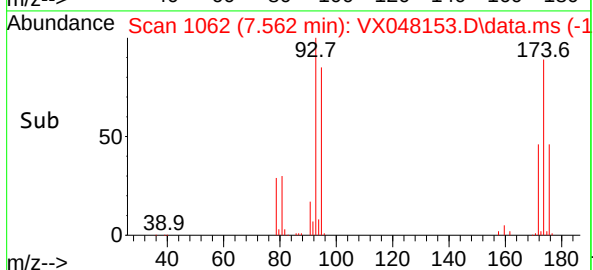
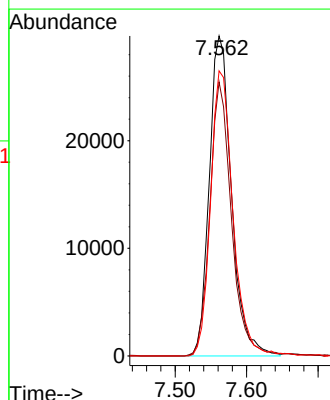
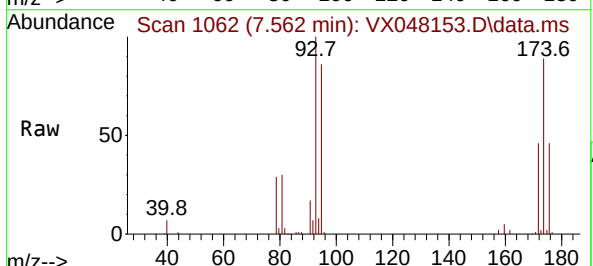
Tgt Ion: 93 Resp: 64264

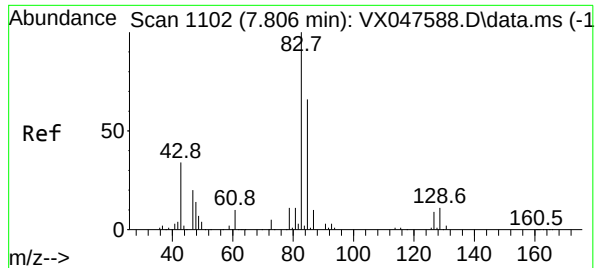
Ion Ratio Lower Upper

93 100

95 83.8 65.0 97.6

174 89.9 71.6 107.4





#47

Bromodichloromethane

Concen: 57.493 ug/l

RT: 7.799 min Scan# 1102

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 13968

Ion Ratio Lower Upper

83 100

85 64.4 52.5 78.7

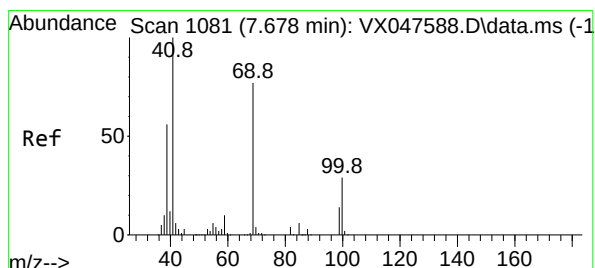
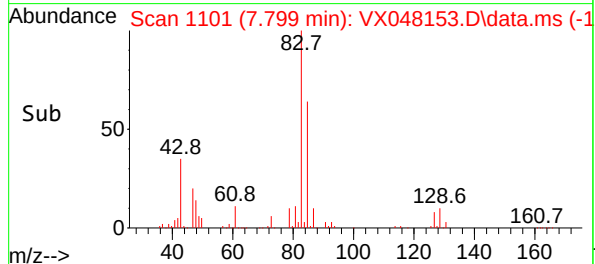
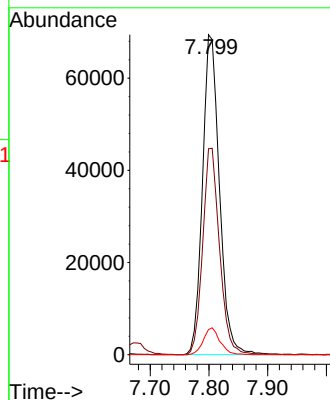
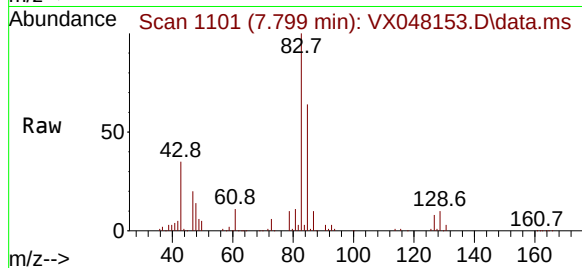
127 7.9 6.9 10.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#48

Methyl methacrylate

Concen: 48.182 ug/l

RT: 7.671 min Scan# 1080

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

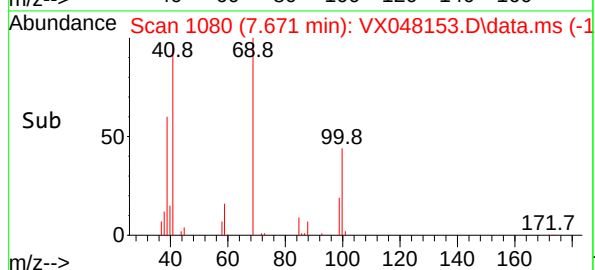
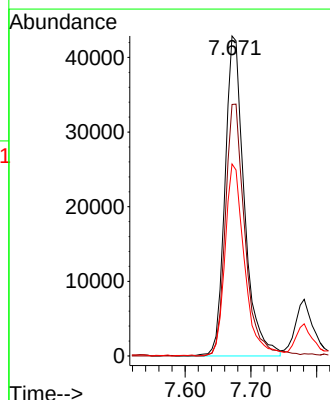
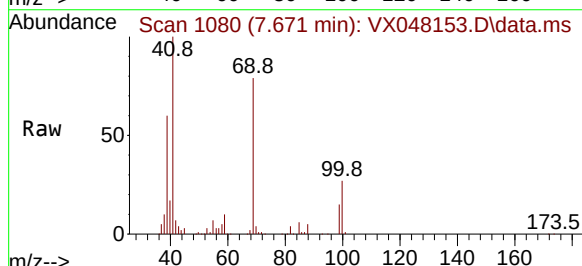
Tgt Ion: 41 Resp: 87675

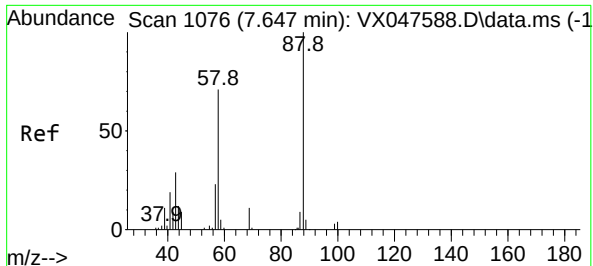
Ion Ratio Lower Upper

41 100

69 79.6 61.4 92.2

39 60.4 45.8 68.6





#49

1,4-Dioxane

Concen: 1079.897 ug/l

RT: 7.641 min Scan# 1075

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 1985

Ion Ratio Lower Upper

88 100

43 38.5 30.2 45.2

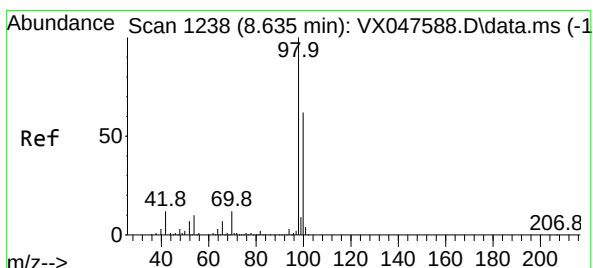
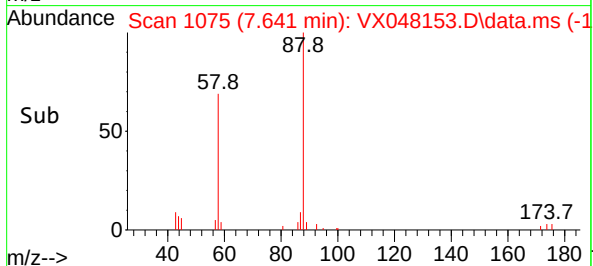
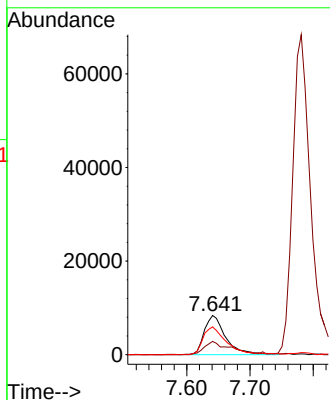
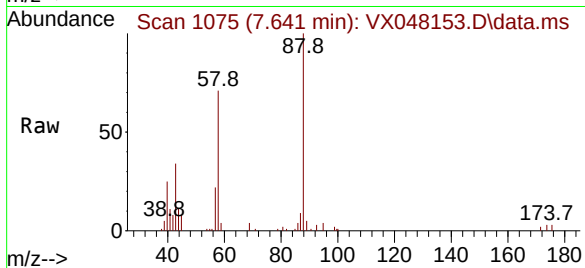
58 78.0 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#50

Toluene-d8

Concen: 55.475 ug/l

RT: 8.634 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX048153.D

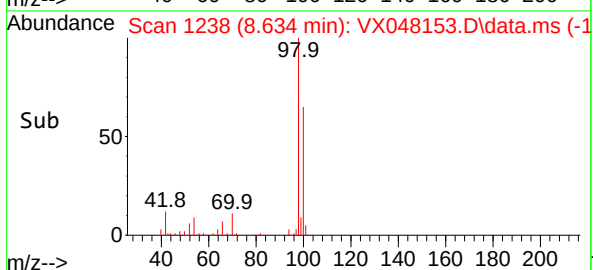
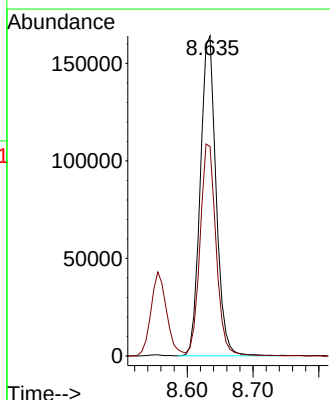
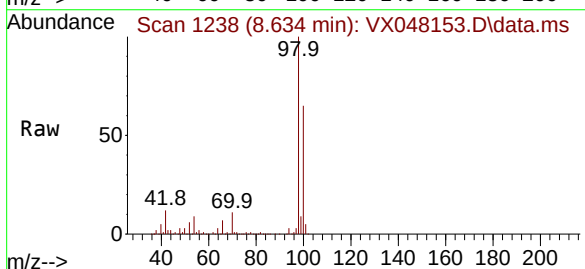
Acq: 14 Oct 2025 10:02

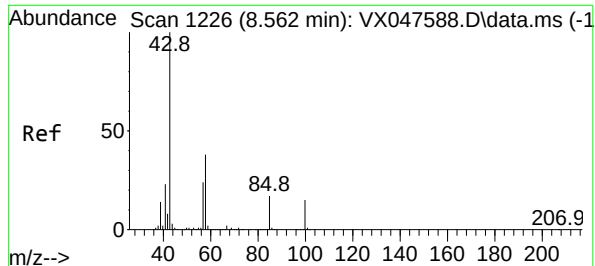
Tgt Ion: 98 Resp: 273280

Ion Ratio Lower Upper

98 100

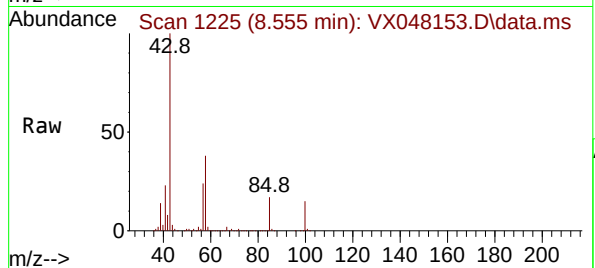
100 67.2 53.0 79.4





#51
4-Methyl-2-Pentanone
Concen: 246.453 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

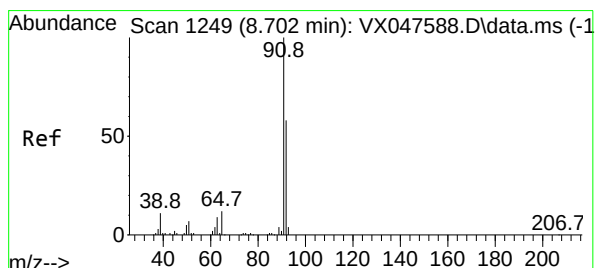
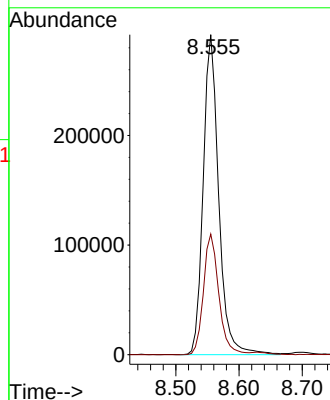
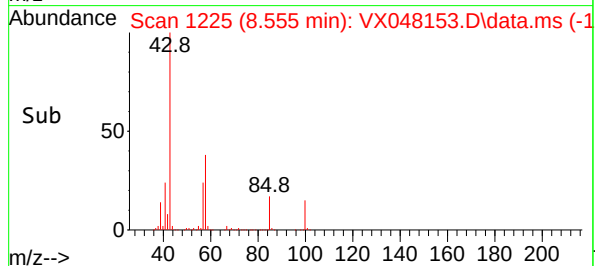
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 49918
Ion Ratio Lower Upper
43 100
58 37.3 30.3 45.5

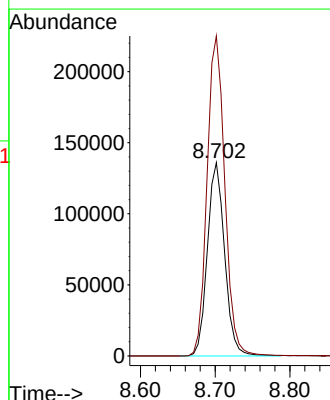
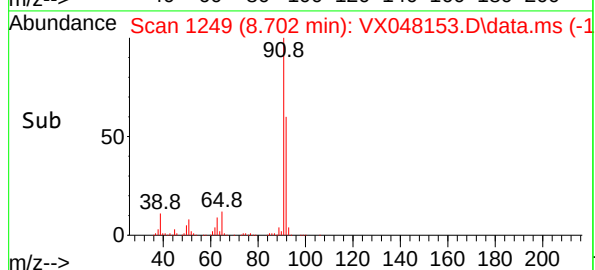
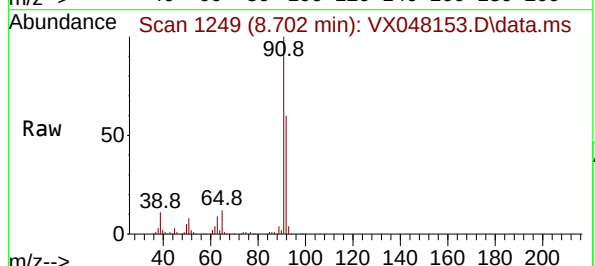
Manual Integrations
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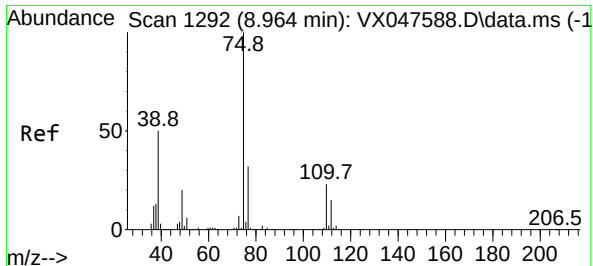
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#52
Toluene
Concen: 56.065 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

Tgt Ion: 92 Resp: 218251
Ion Ratio Lower Upper
92 100
91 170.4 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 53.629 ug/l

RT: 8.958 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 13290

Ion Ratio Lower Upper

75 100

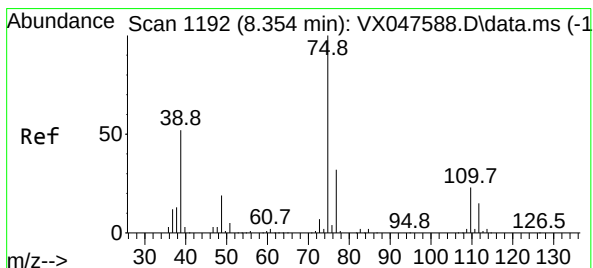
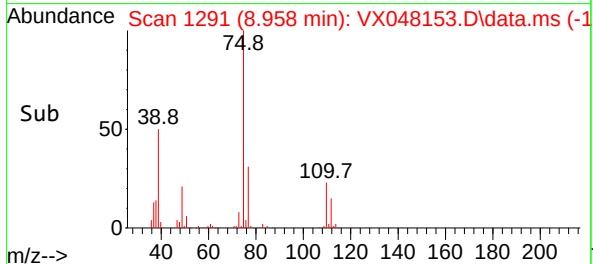
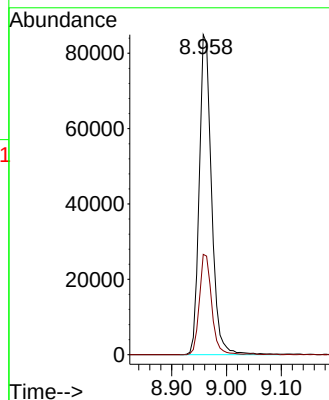
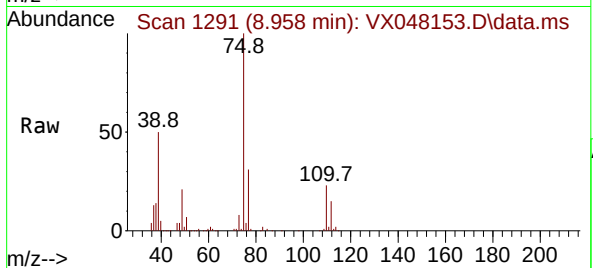
77 31.4 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#54

cis-1,3-Dichloropropene

Concen: 54.766 ug/l

RT: 8.348 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

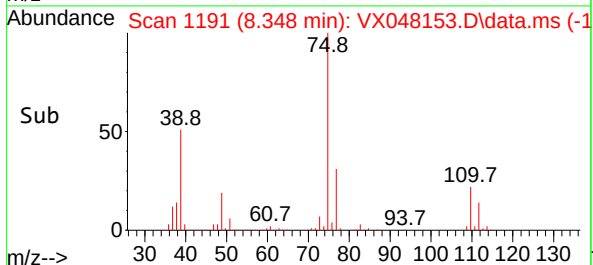
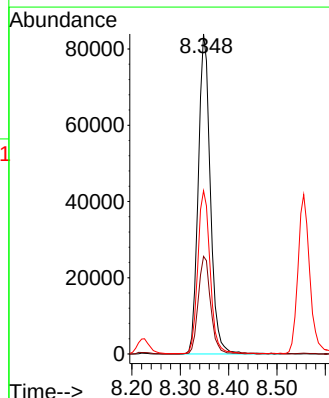
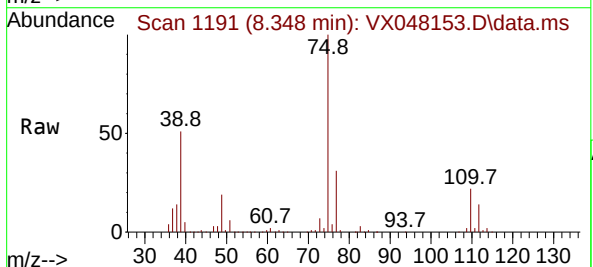
Tgt Ion: 75 Resp: 145065

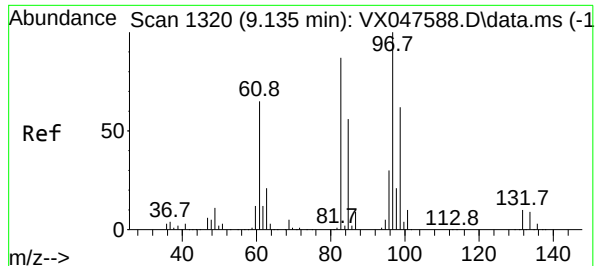
Ion Ratio Lower Upper

75 100

77 30.5 25.8 38.6

39 50.8 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 53.920 ug/l

RT: 9.134 min Scan# 1320

Delta R.T. -0.000 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 8093

Ion Ratio Lower Upper

97 100

83 88.1 69.6 104.4

85 55.5 45.0 67.6

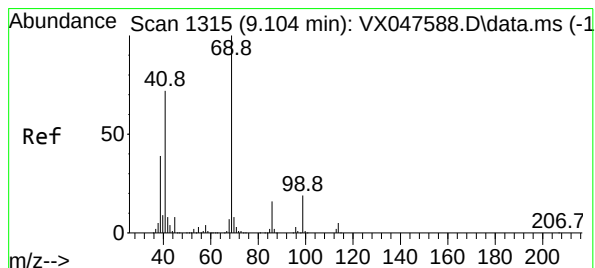
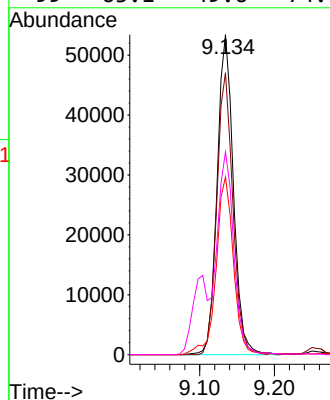
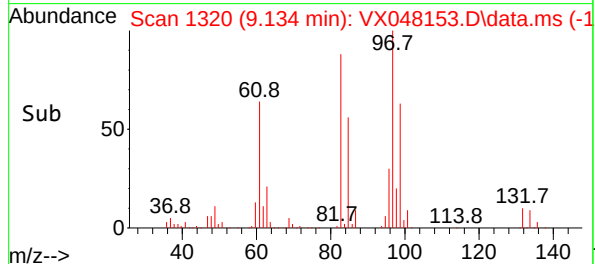
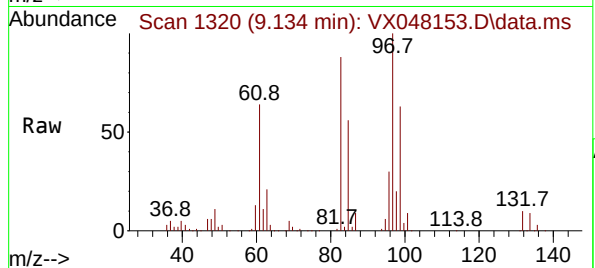
99 63.1 49.6 74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#56

Ethyl methacrylate

Concen: 49.978 ug/l

RT: 9.098 min Scan# 1314

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

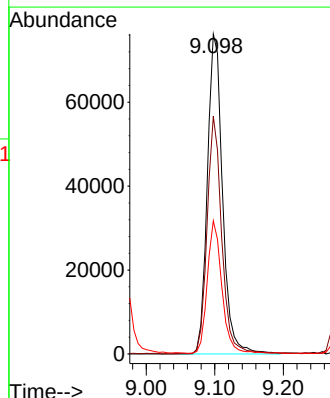
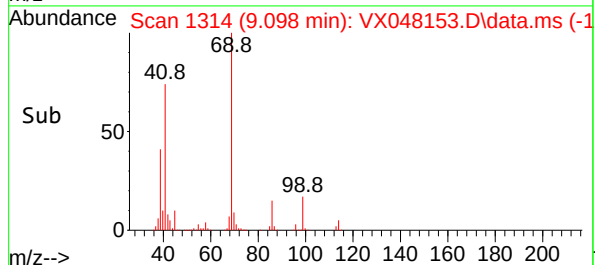
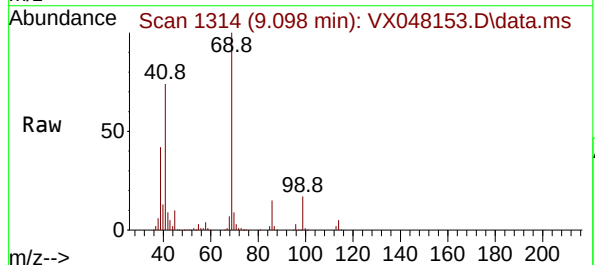
Tgt Ion: 69 Resp: 117815

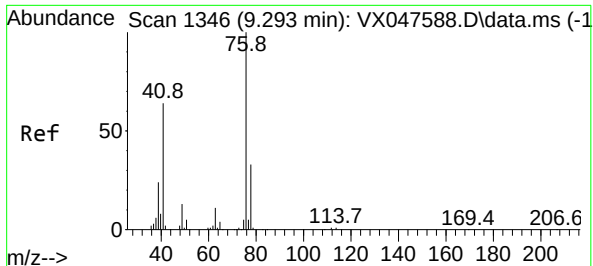
Ion Ratio Lower Upper

69 100

41 71.3 58.6 87.8

39 39.6 31.5 47.3





#57

1,3-Dichloropropane

Concen: 55.058 ug/l

RT: 9.293 min Scan# 1119

Delta R.T. -0.000 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 141969

Ion Ratio Lower Upper

76 100

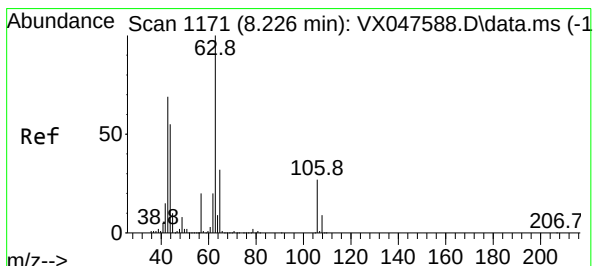
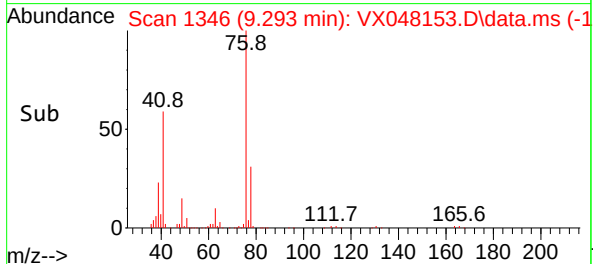
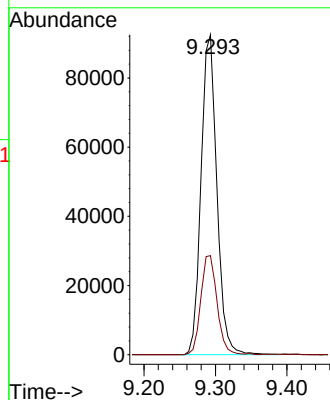
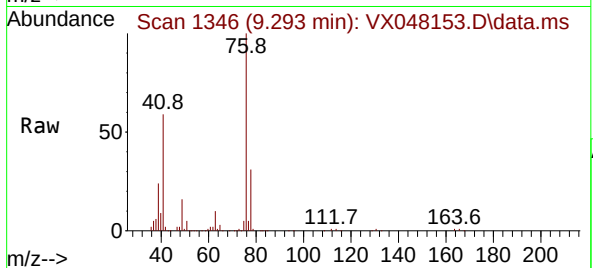
78 31.9 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#58

2-Chloroethyl Vinyl ether

Concen: 255.570 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX048153.D

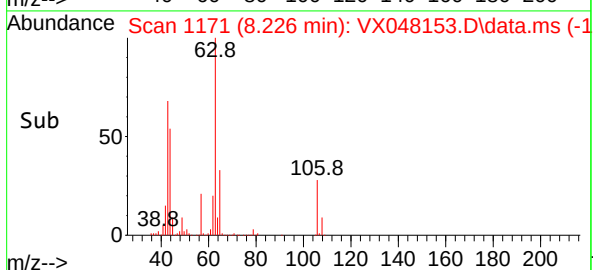
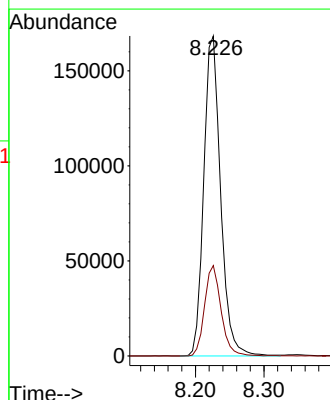
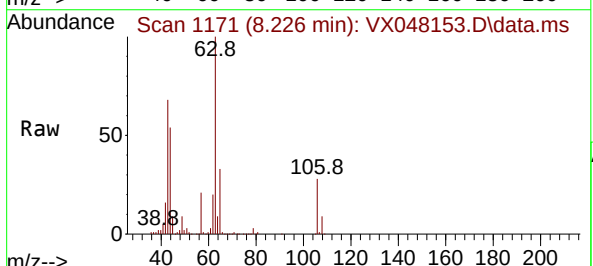
Acq: 14 Oct 2025 10:02

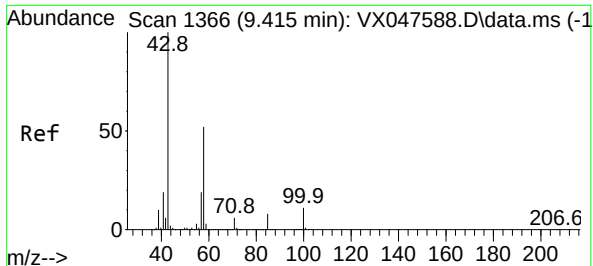
Tgt Ion: 63 Resp: 288271

Ion Ratio Lower Upper

63 100

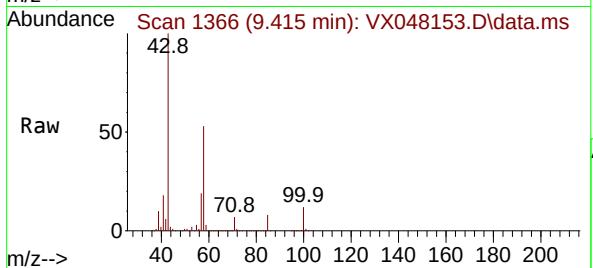
106 27.6 21.9 32.9





#59
2-Hexanone
Concen: 238.613 ug/l
RT: 9.415 min Scan# 1366
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

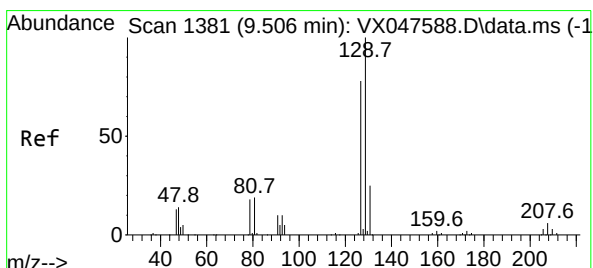
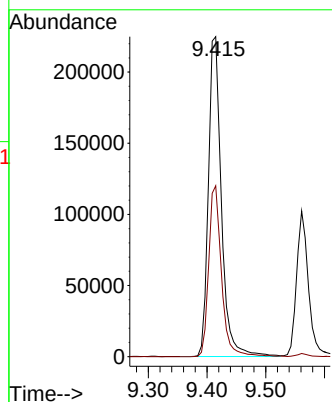
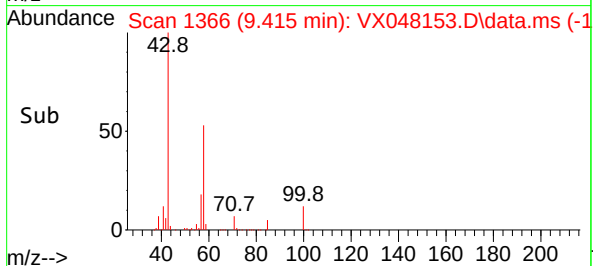
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 347109
Ion Ratio Lower Upper
43 100
58 52.5 26.1 78.2

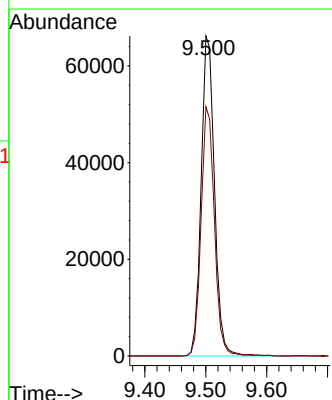
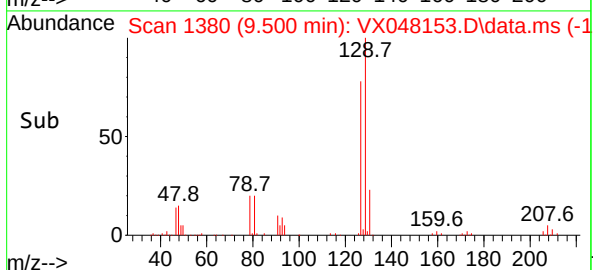
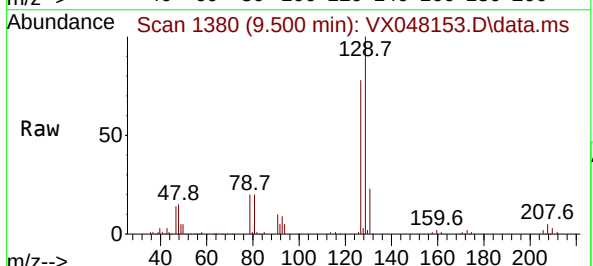
Manual Integrations
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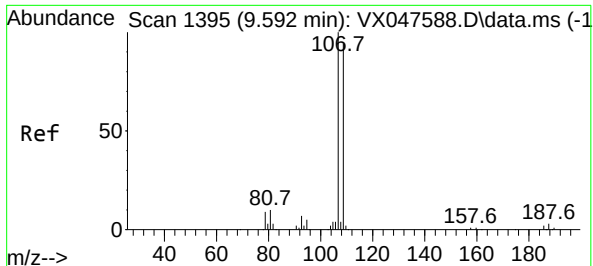
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#60
Dibromochloromethane
Concen: 58.035 ug/l
RT: 9.500 min Scan# 1380
Delta R.T. -0.006 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

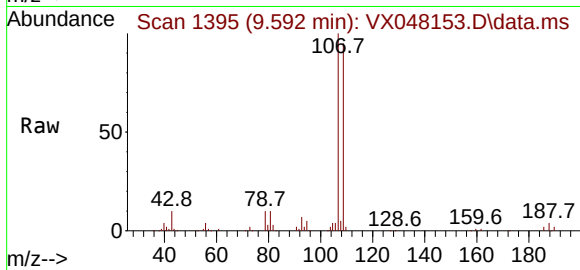
Tgt Ion:129 Resp: 100375
Ion Ratio Lower Upper
129 100
127 78.1 38.4 115.2





#61
1,2-Dibromoethane
Concen: 54.765 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

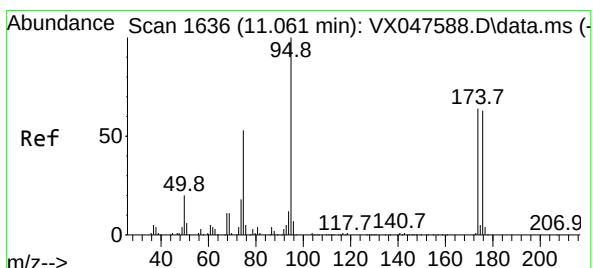
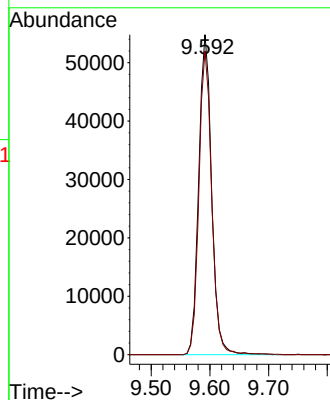
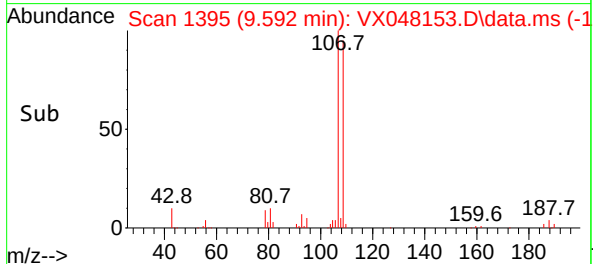
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 107 Resp: 83730
Ion Ratio Lower Upper
107 100
109 94.1 75.3 112.9

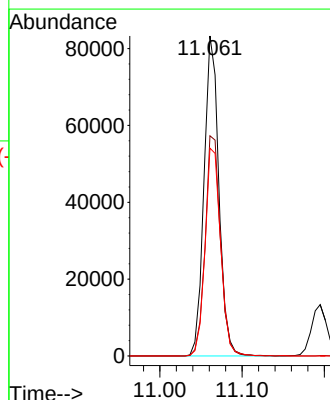
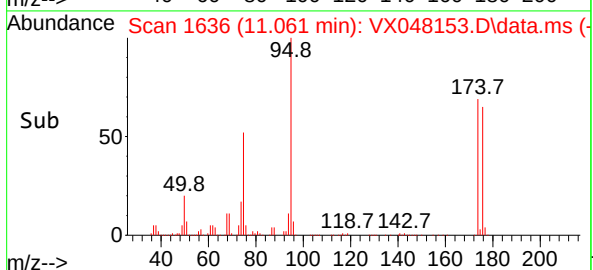
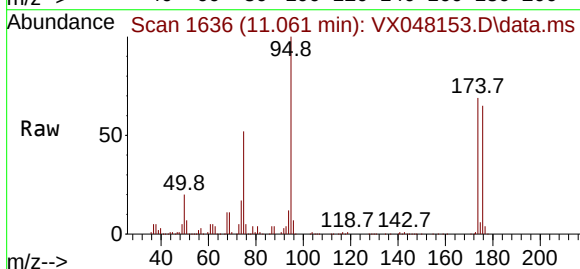
Manual Integrations
APPROVED

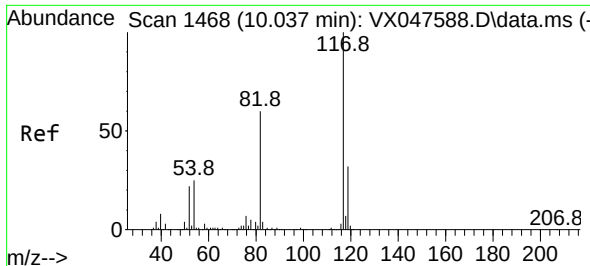
Reviewed By : John Carlone 10/15/2025
Supervised By : Mahesh Dadoda 10/16/2025



#62
4-Bromofluorobenzene
Concen: 55.785 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

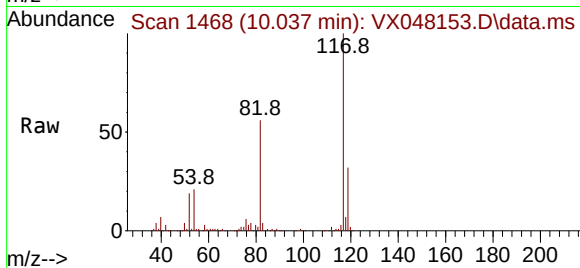
Tgt Ion: 95 Resp: 104295
Ion Ratio Lower Upper
95 100
174 71.0 0.0 141.6
176 68.0 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

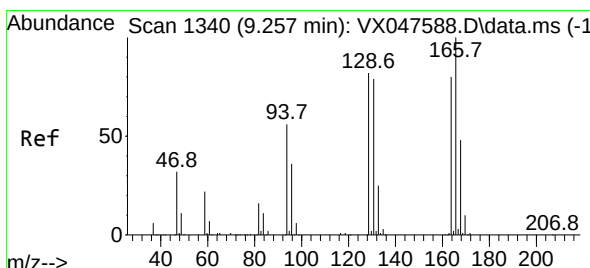
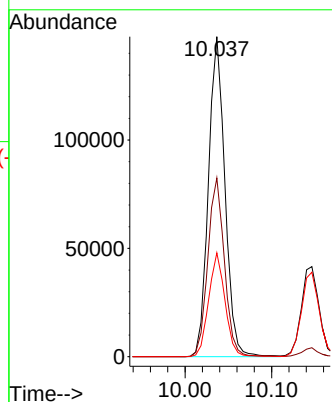
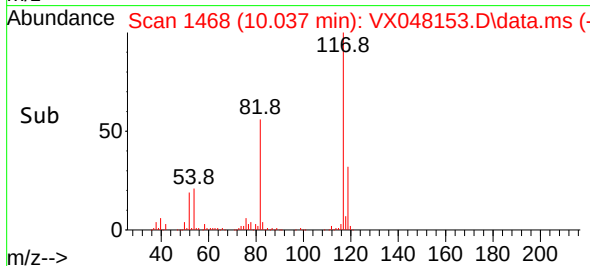
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:117 Resp: 195629
Ion Ratio Lower Upper
117 100
82 55.9 47.8 71.6
119 32.5 25.2 37.8

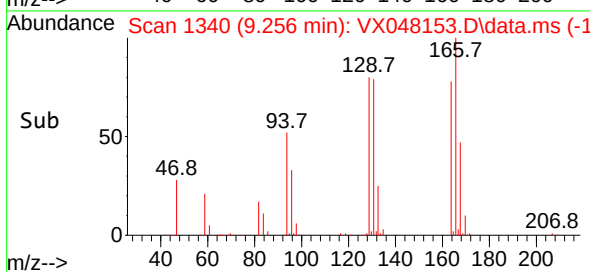
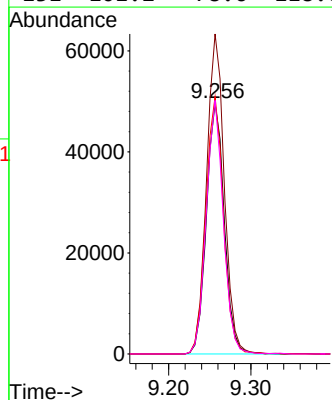
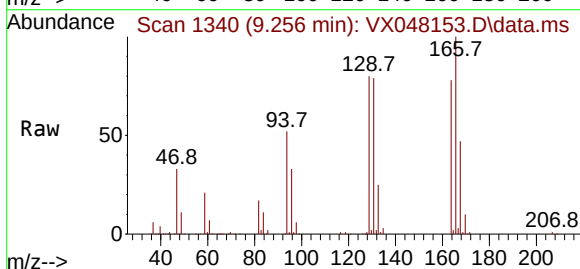
Manual Integrations
APPROVED

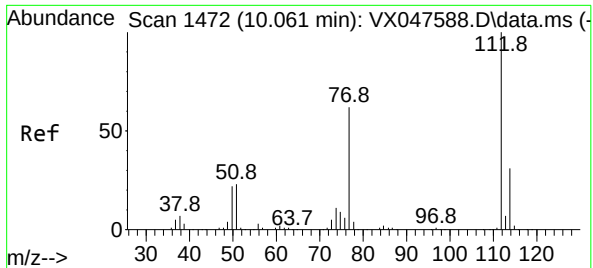
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#64
Tetrachloroethene
Concen: 58.763 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

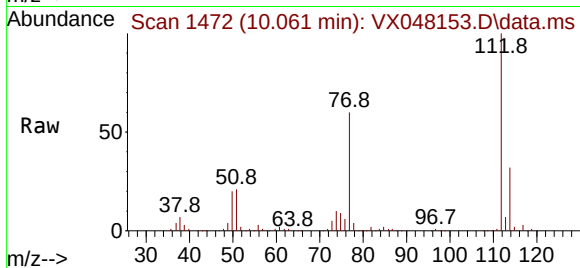
Tgt Ion:164 Resp: 74940
Ion Ratio Lower Upper
164 100
166 127.7 100.2 150.2
129 102.6 81.8 122.6
131 101.2 78.6 118.0





#65
Chlorobenzene
Concen: 54.406 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

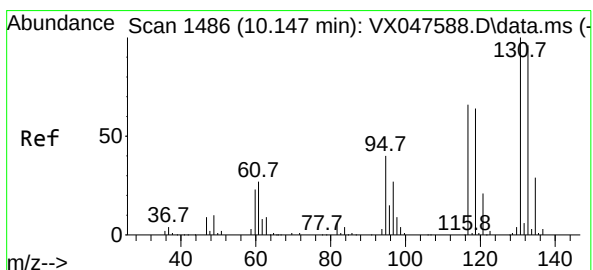
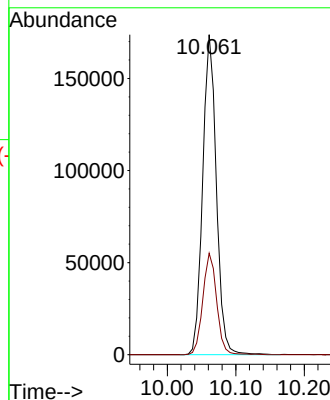
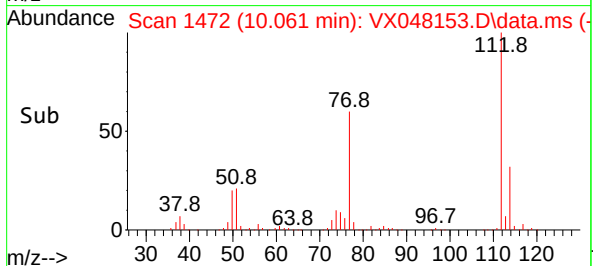
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:112 Resp: 241798
Ion Ratio Lower Upper
112 100
114 31.7 25.1 37.7

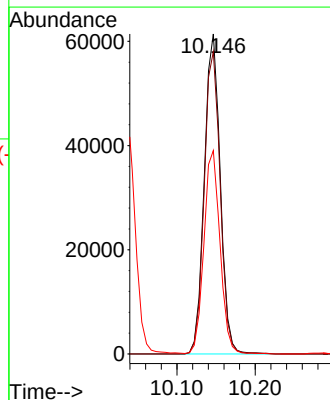
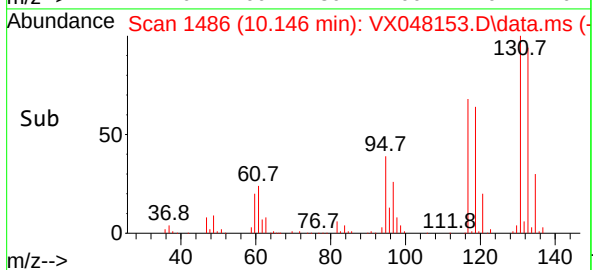
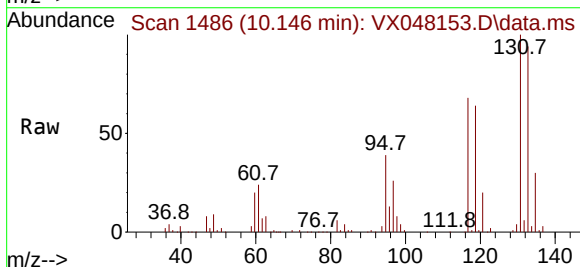
Manual Integrations
APPROVED

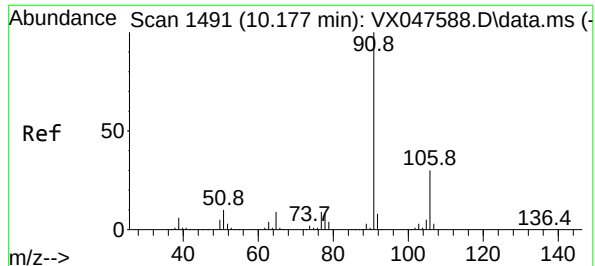
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 56.554 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

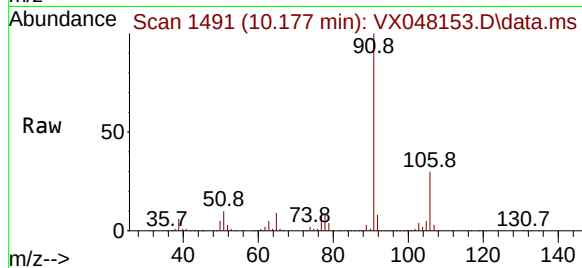
Tgt Ion:131 Resp: 86732
Ion Ratio Lower Upper
131 100
133 94.8 47.3 142.0
119 64.4 32.0 96.0





#67
Ethyl Benzene
Concen: 55.162 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

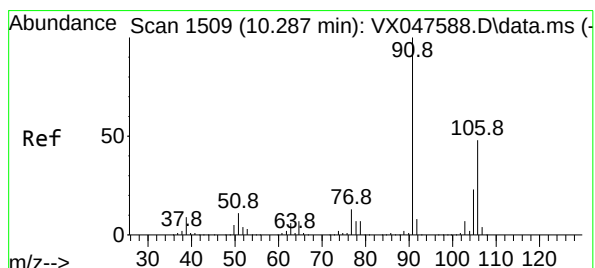
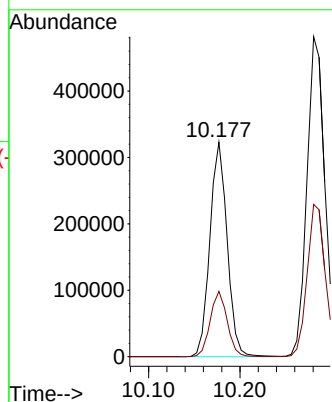
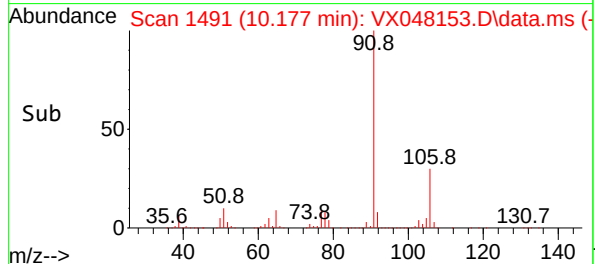
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 91 Resp: 423004
Ion Ratio Lower Upper
91 100
106 30.4 24.3 36.5

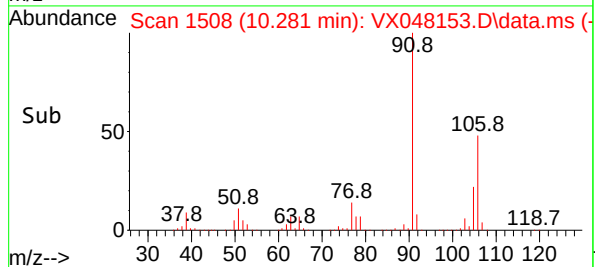
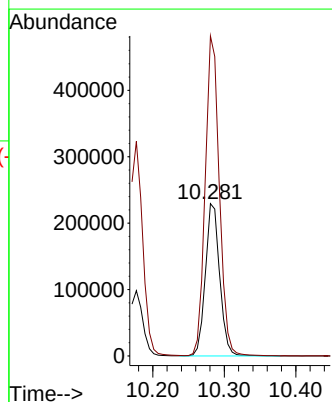
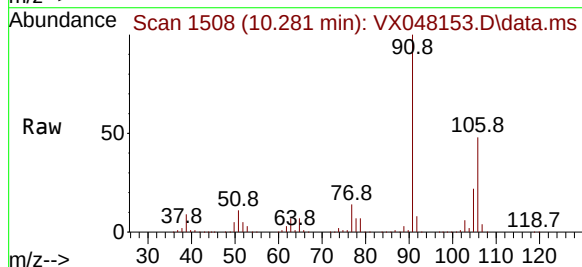
Manual Integrations
APPROVED

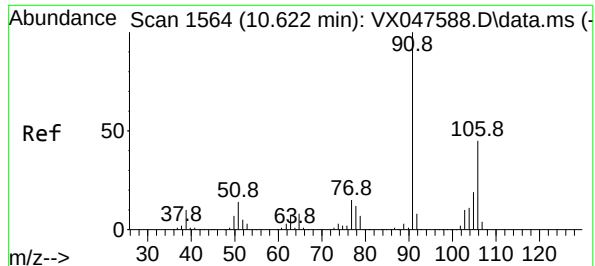
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#68
m/p-Xylenes
Concen: 111.573 ug/l
RT: 10.281 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

Tgt Ion:106 Resp: 318453
Ion Ratio Lower Upper
106 100
91 208.3 167.8 251.8





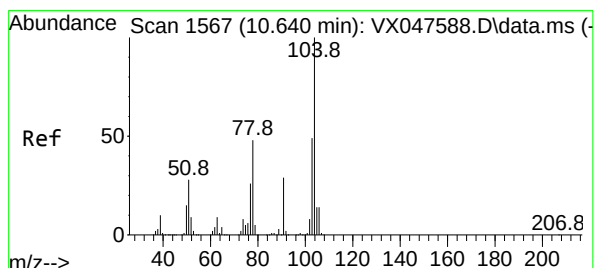
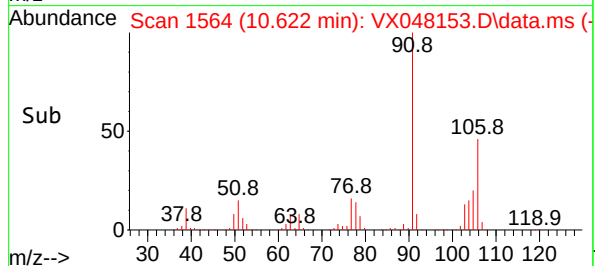
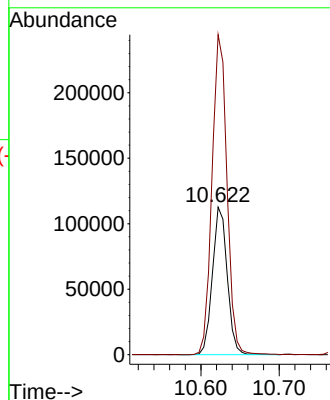
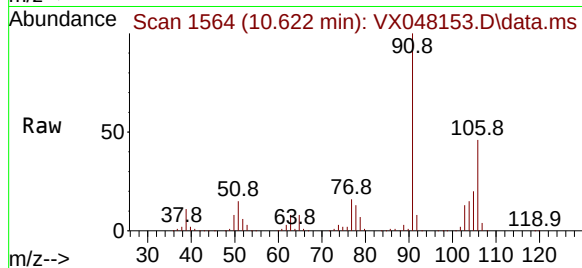
#69
o-Xylene
Concen: 53.430 ug/l
RT: 10.622 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 147504
Ion Ratio Lower Upper
106 100
91 219.5 111.1 333.4

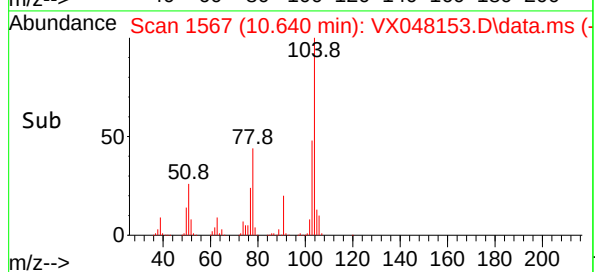
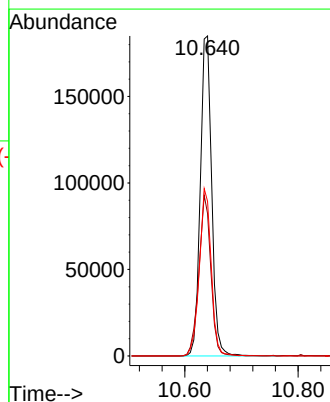
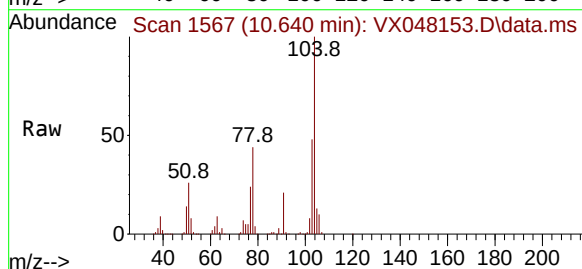
Manual Integrations
APPROVED

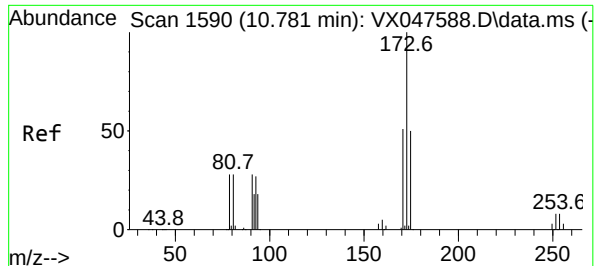
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#70
Styrene
Concen: 53.377 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

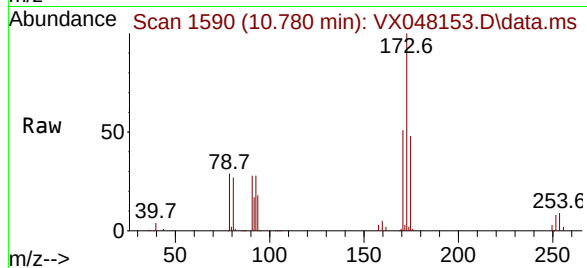
Tgt Ion:104 Resp: 258201
Ion Ratio Lower Upper
104 100
78 52.6 43.1 64.7
103 54.7 43.1 64.7





#71
Bromoform
Concen: 54.014 ug/l
RT: 10.780 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

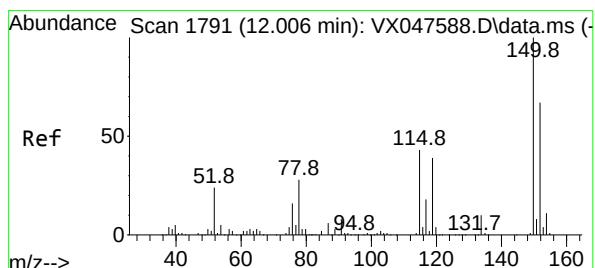
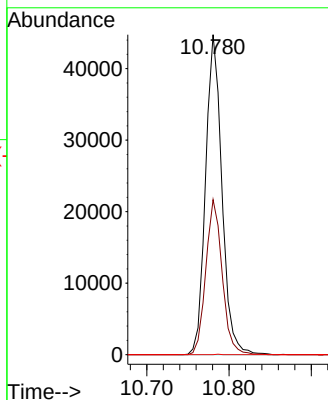
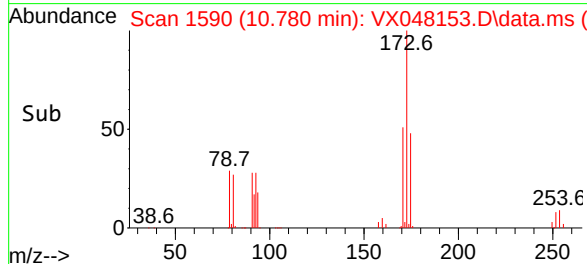
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



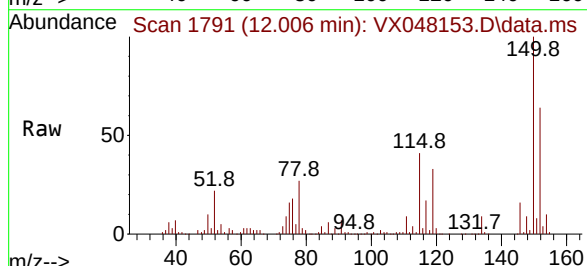
Tgt Ion:173 Resp: 6185
Ion Ratio Lower Upper
173 100
175 48.4 24.9 74.6
254 0.0 0.1 0.1

Manual Integrations
APPROVED

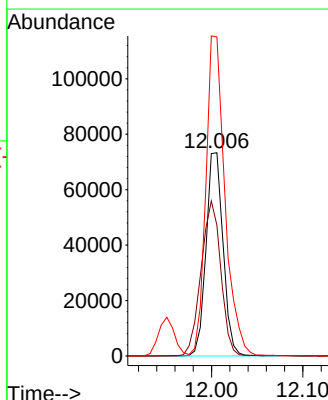
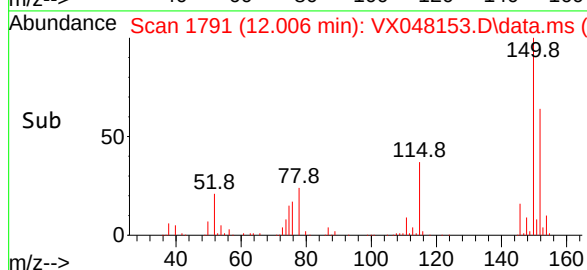
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

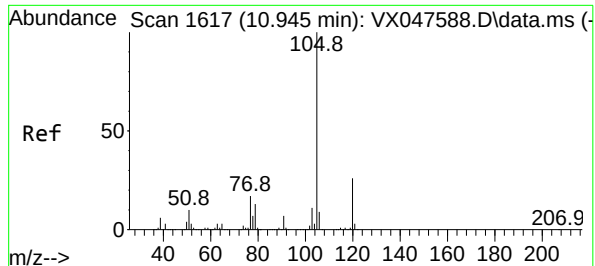


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02



Tgt Ion:152 Resp: 95000
Ion Ratio Lower Upper
152 100
115 88.5 44.9 134.5
150 175.5 0.0 352.0





#73

Isopropylbenzene

Concen: 52.496 ug/l

RT: 10.945 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 37915

Ion Ratio Lower Upper

105 100

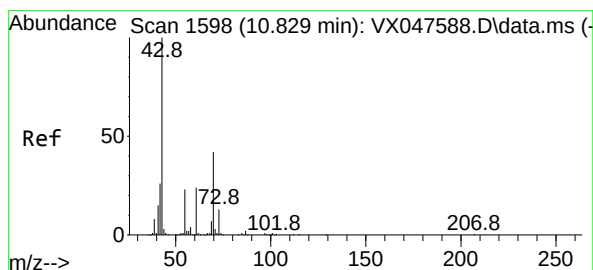
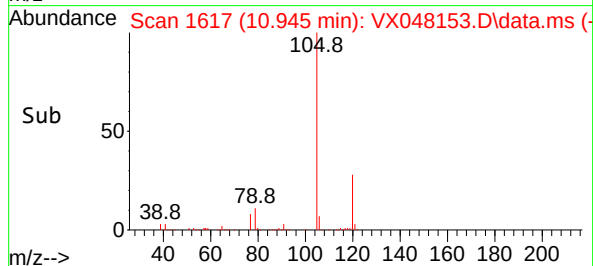
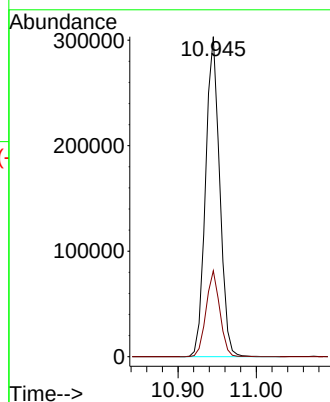
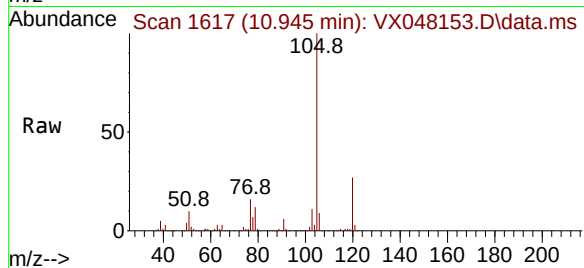
120 26.0 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#74

N-ethyl acetate

Concen: 45.741 ug/l

RT: 10.823 min Scan# 1597

Delta R.T. -0.006 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Tgt Ion: 43 Resp: 150652

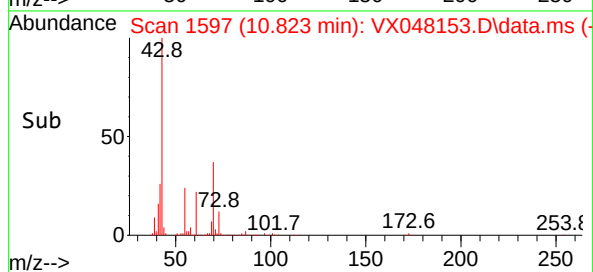
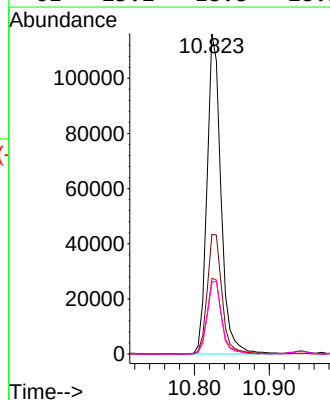
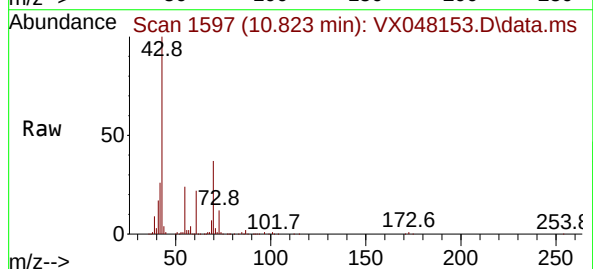
Ion Ratio Lower Upper

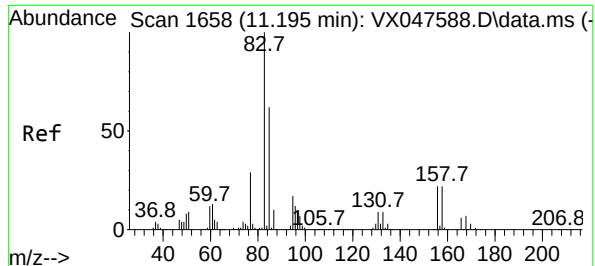
43 100

70 39.4 32.0 48.0

55 24.7 18.9 28.3

61 23.2 18.8 28.2





#75

1,1,2,2-Tetrachloroethane

Concen: 49.321 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 107774

Ion Ratio Lower Upper

83 100

131 9.8 5.0 14.9

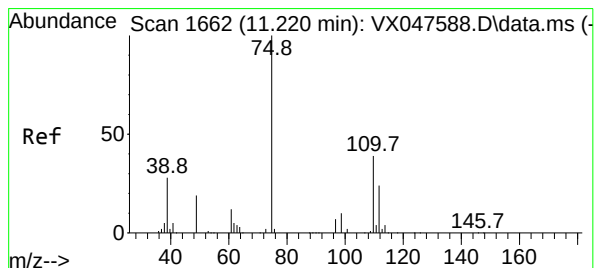
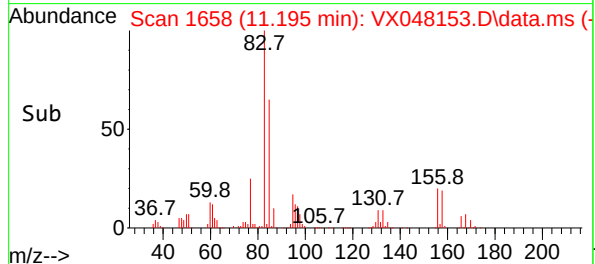
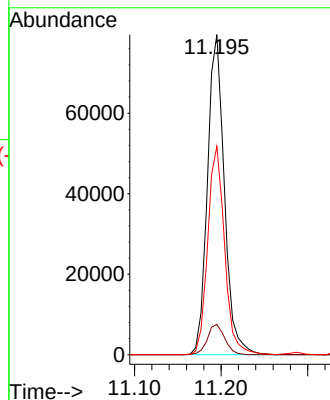
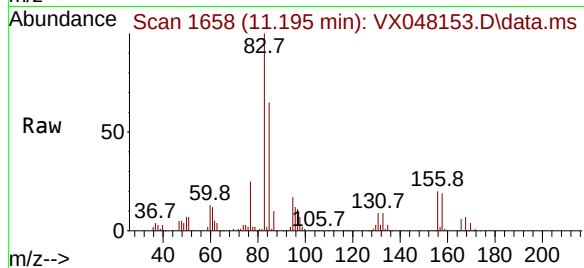
85 64.9 31.6 95.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#76

1,2,3-Trichloropropane

Concen: 50.893 ug/l m

RT: 11.219 min Scan# 1662

Delta R.T. -0.000 min

Lab File: VX048153.D

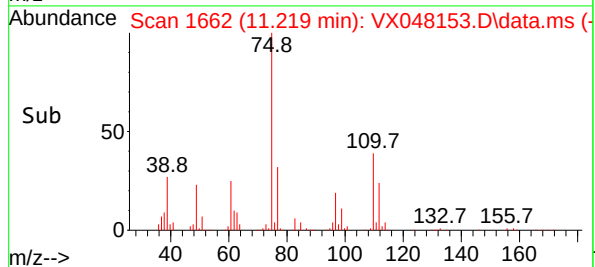
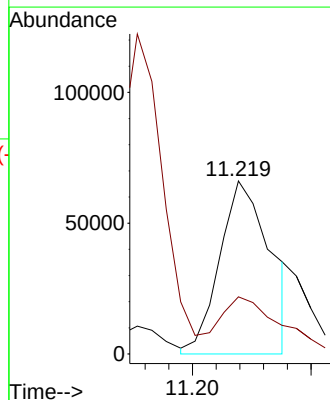
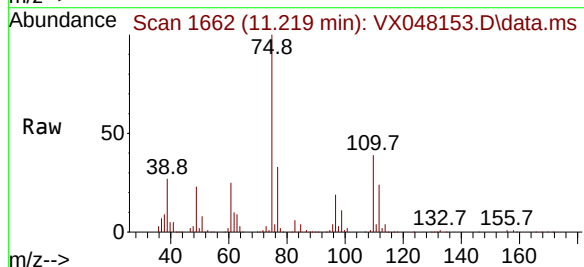
Acq: 14 Oct 2025 10:02

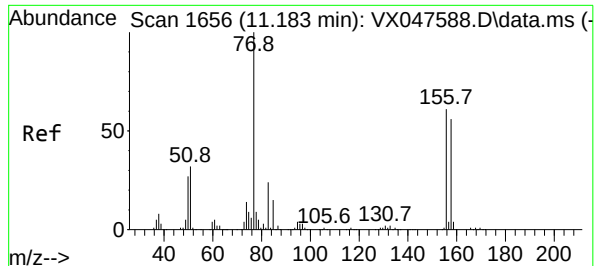
Tgt Ion: 75 Resp: 97890

Ion Ratio Lower Upper

75 100

77 40.5 18.8 56.4





#77

Bromobenzene

Concen: 51.393 ug/l

RT: 11.183 min Scan# 1656

Delta R.T. -0.000 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

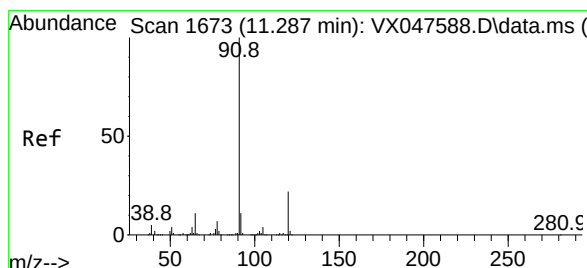
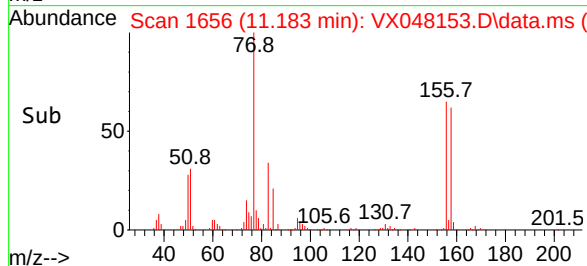
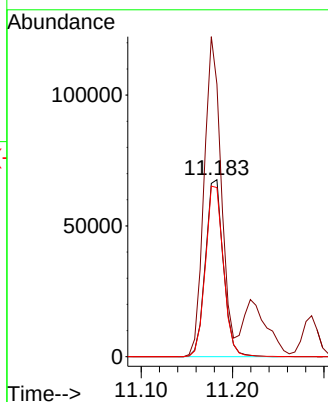
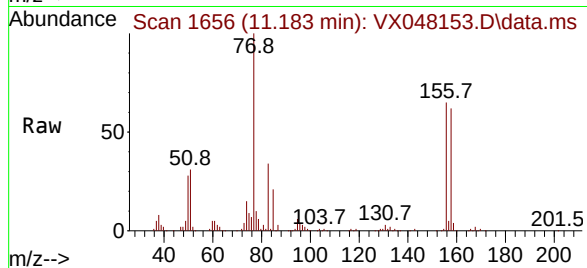
Tgt Ion:	156	Resp:	9142
Ion Ratio	Lower	Upper	
156	100		
77	173.0	89.7	269.1
158	97.5	47.9	143.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#78

n-propylbenzene

Concen: 53.607 ug/l

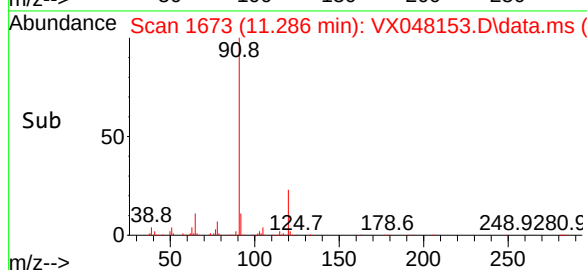
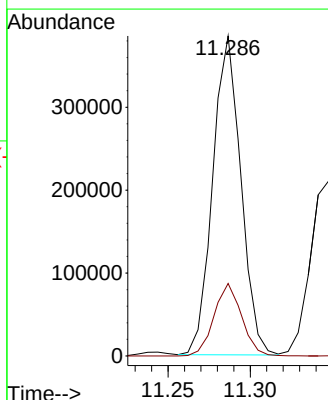
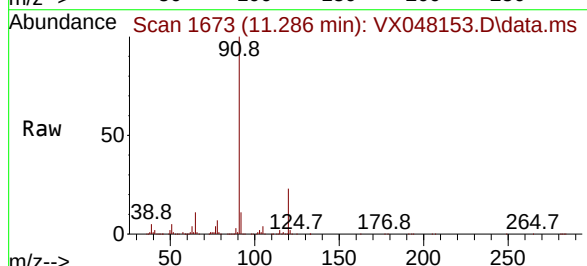
RT: 11.286 min Scan# 1673

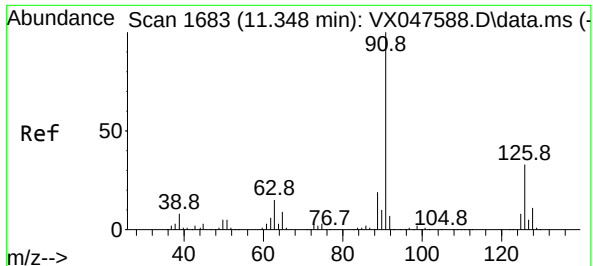
Delta R.T. -0.000 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Tgt Ion:	91	Resp:	457693
Ion Ratio	Lower	Upper	
91	100		
120	22.3	11.1	33.1





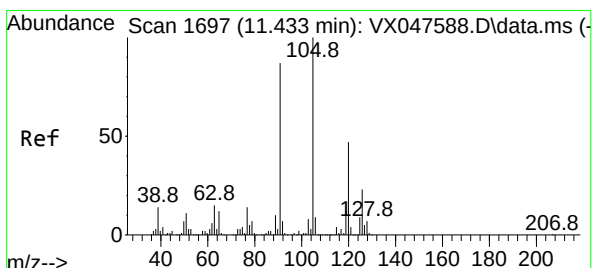
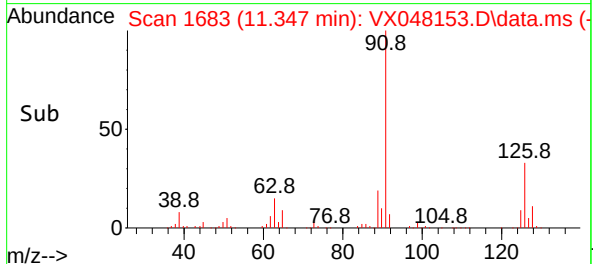
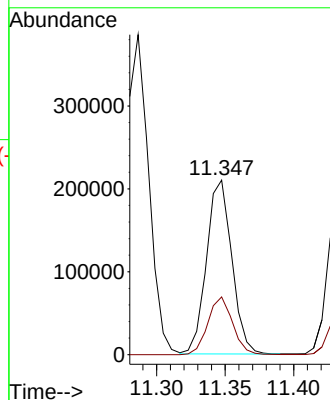
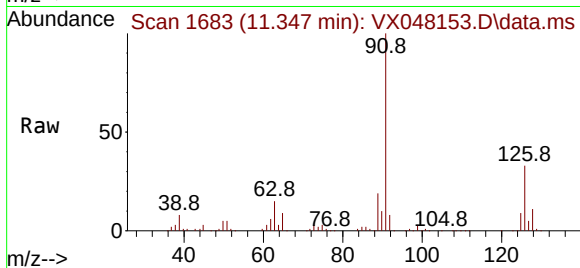
#79
2-Chlorotoluene
Concen: 51.503 ug/l
RT: 11.347 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 269324
Ion Ratio Lower Upper
91 100
126 32.5 16.1 48.3

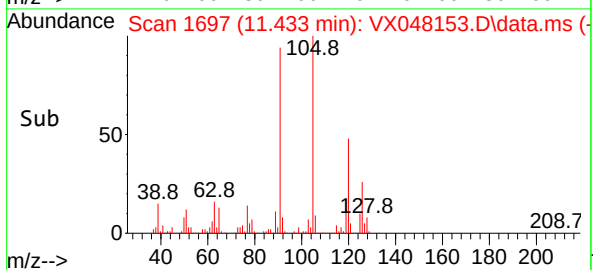
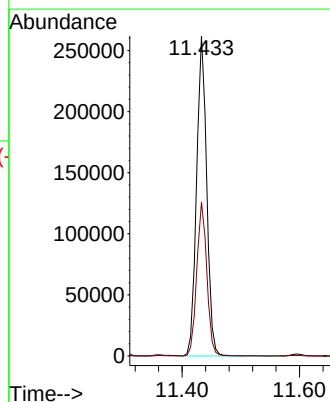
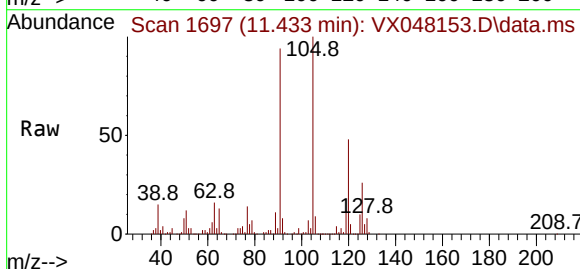
Manual Integrations
APPROVED

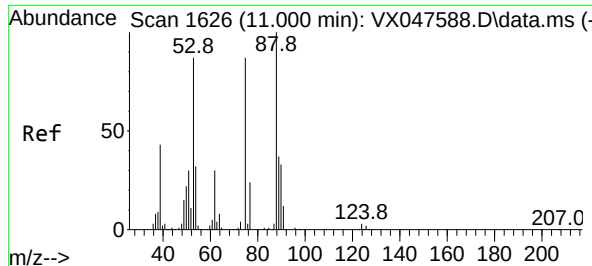
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#80
1,3,5-Trimethylbenzene
Concen: 52.746 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

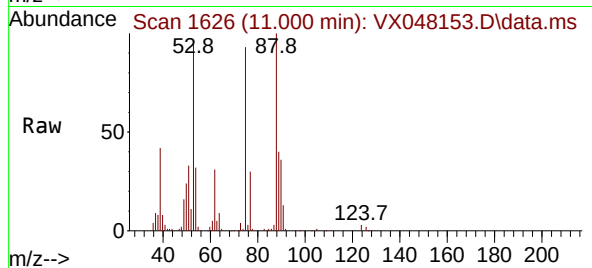
Tgt Ion:105 Resp: 312991
Ion Ratio Lower Upper
105 100
120 47.9 23.6 70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 46.604 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

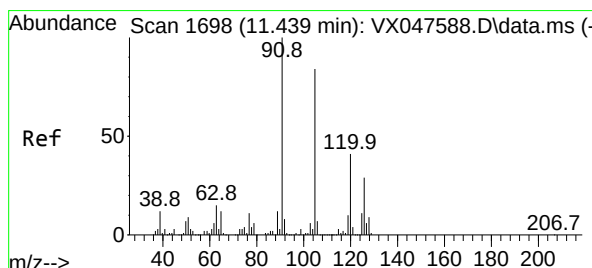
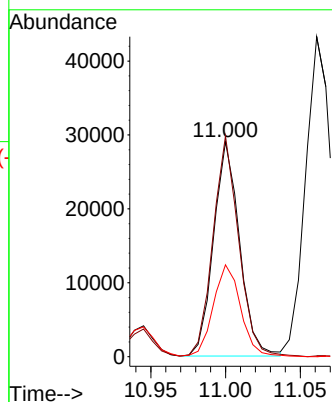
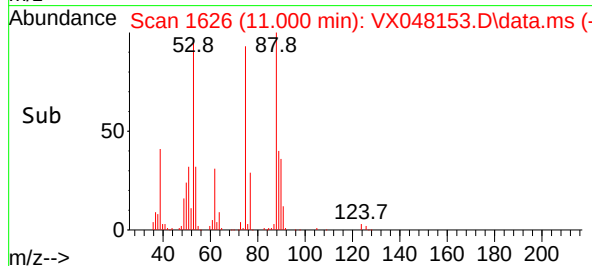
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 75 Resp: 3515
Ion Ratio Lower Upper
75 100
53 101.8 83.4 125.2
89 45.3 36.3 54.5

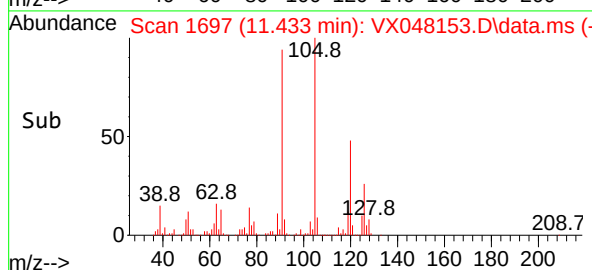
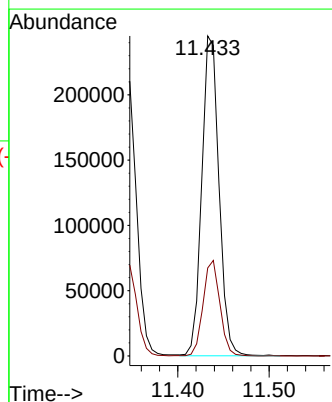
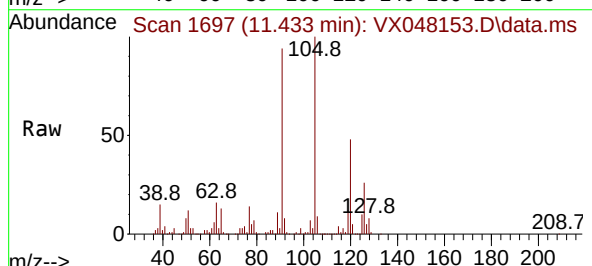
Manual Integrations
APPROVED

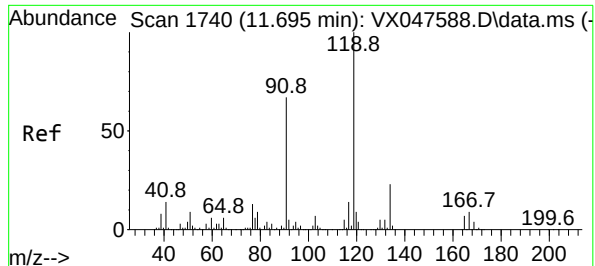
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#82
4-Chlorotoluene
Concen: 51.769 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

Tgt Ion: 91 Resp: 319730
Ion Ratio Lower Upper
91 100
126 29.2 14.2 42.6





#83

tert-Butylbenzene

Concen: 49.789 ug/l

RT: 11.695 min Scan# 1740

Delta R.T. -0.000 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 302438

Ion Ratio Lower Upper

119 100

91 60.9 29.6 88.8

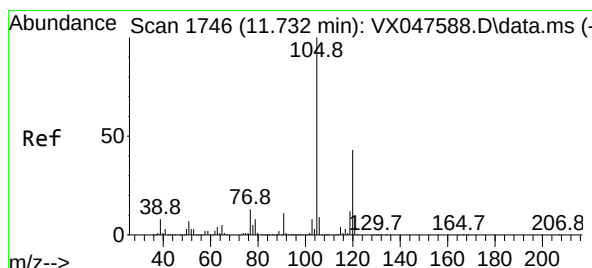
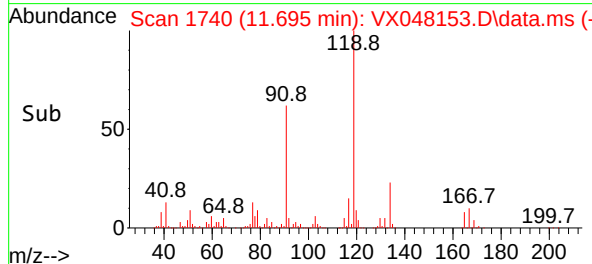
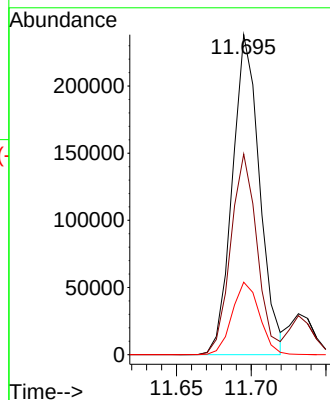
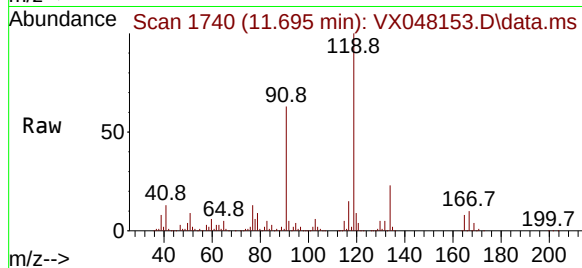
134 22.8 11.0 33.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#84

1,2,4-Trimethylbenzene

Concen: 52.326 ug/l

RT: 11.732 min Scan# 1746

Delta R.T. -0.000 min

Lab File: VX048153.D

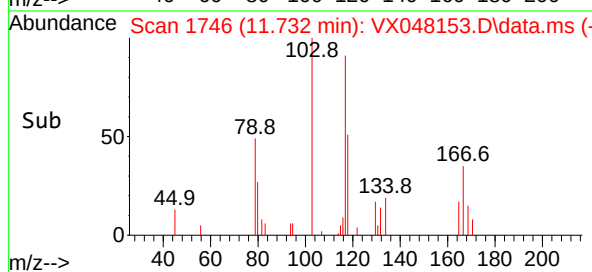
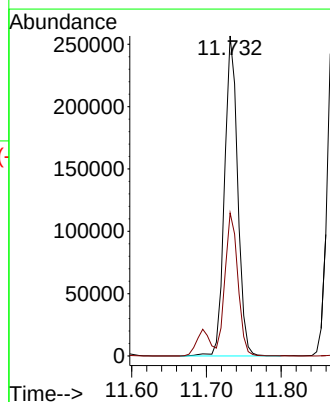
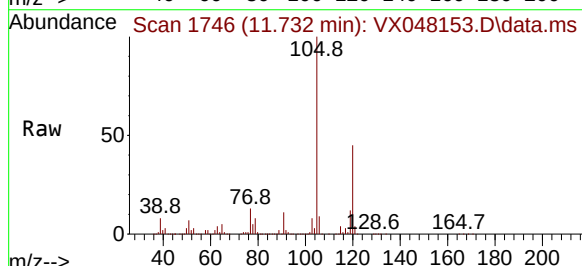
Acq: 14 Oct 2025 10:02

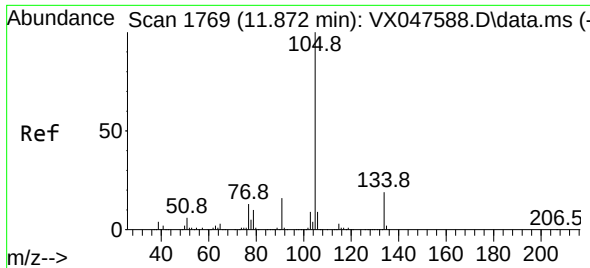
Tgt Ion:105 Resp: 314796

Ion Ratio Lower Upper

105 100

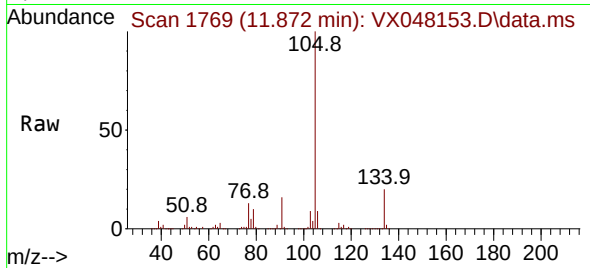
120 43.6 22.1 66.1





#85
 sec-Butylbenzene
 Concen: 52.657 ug/l
 RT: 11.872 min Scan# 1769
 Delta R.T. -0.000 min
 Lab File: VX048153.D
 Acq: 14 Oct 2025 10:02

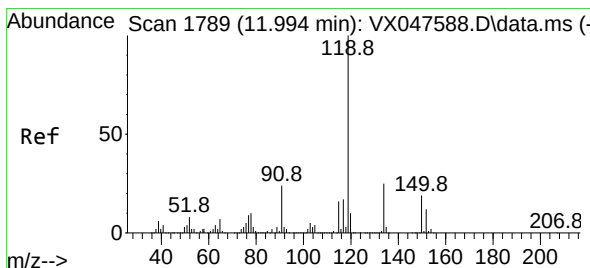
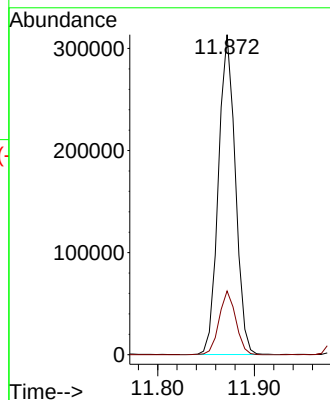
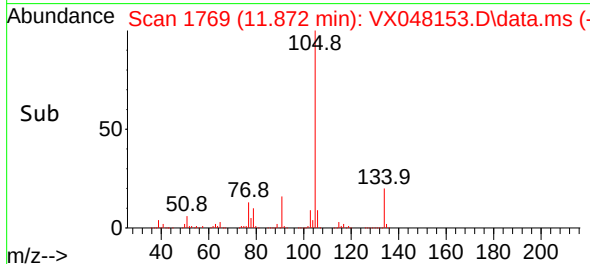
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050



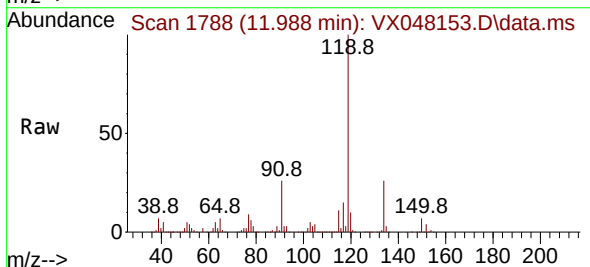
Tgt Ion:105 Resp: 37993
 Ion Ratio Lower Upper
 105 100
 134 19.6 9.8 29.5

Manual Integrations
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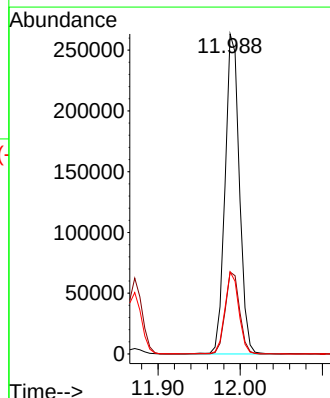
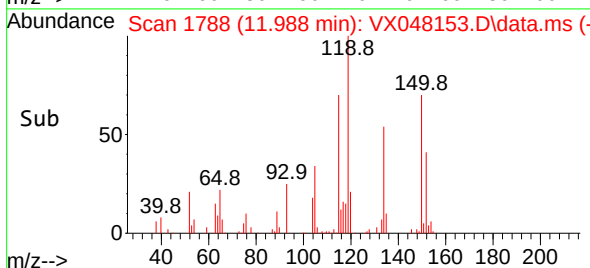
Reviewed By :John Carlone 10/15/2025
 Supervised By :Mahesh Dadoda 10/16/2025

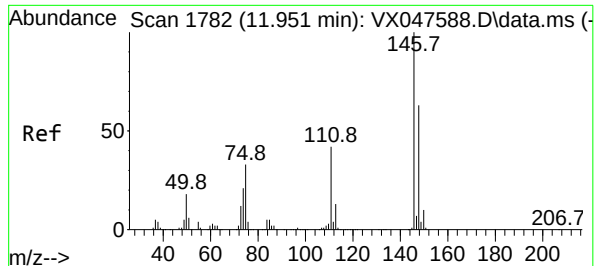


#86
 p-Isopropyltoluene
 Concen: 52.167 ug/l
 RT: 11.988 min Scan# 1788
 Delta R.T. -0.006 min
 Lab File: VX048153.D
 Acq: 14 Oct 2025 10:02



Tgt Ion:119 Resp: 318657
 Ion Ratio Lower Upper
 119 100
 134 25.7 12.6 37.8
 91 25.1 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 51.154 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 16901

Ion Ratio Lower Upper

146 100

111 42.6 21.5 64.5

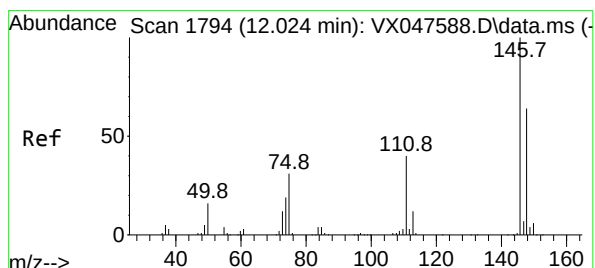
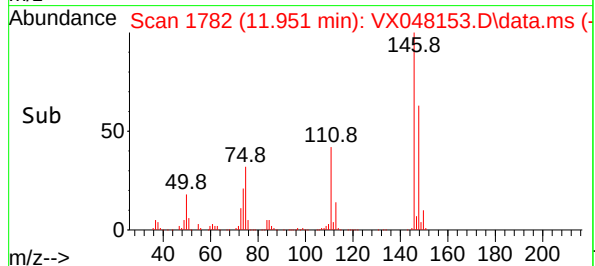
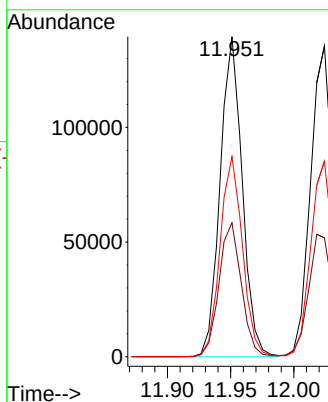
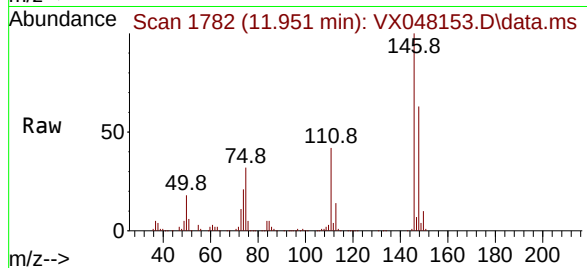
148 63.5 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#88

1,4-Dichlorobenzene

Concen: 50.386 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

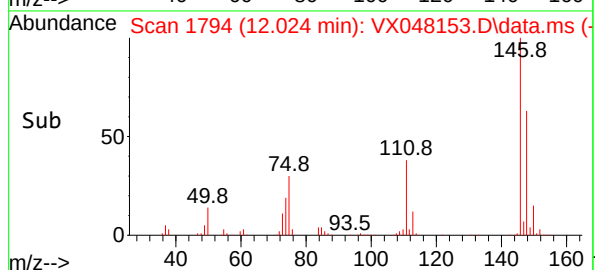
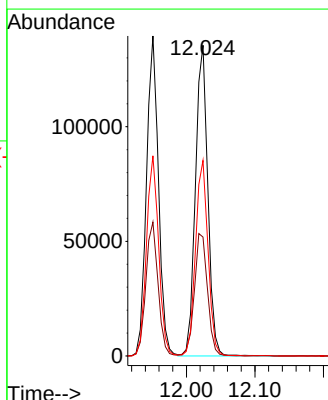
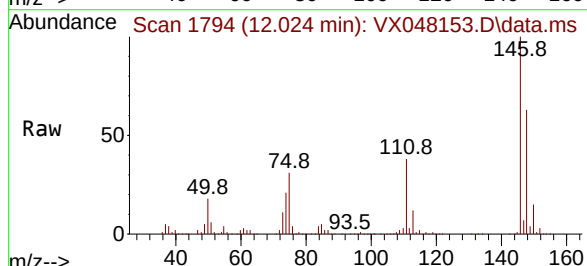
Tgt Ion:146 Resp: 170864

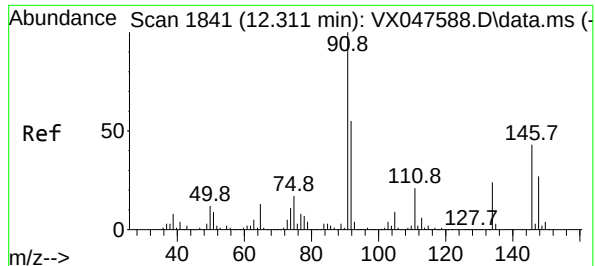
Ion Ratio Lower Upper

146 100

111 41.4 20.8 62.4

148 63.5 31.7 95.1





#89

n-Butylbenzene

Concen: 52.013 ug/l

RT: 12.311 min Scan# 1841

Delta R.T. -0.000 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 29398

Ion Ratio Lower Upper

91 100

92 53.3 27.6 82.7

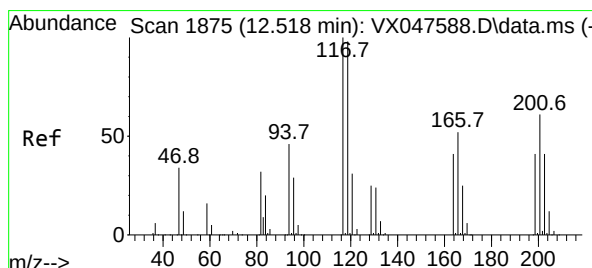
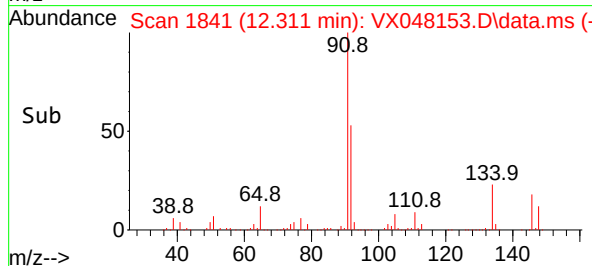
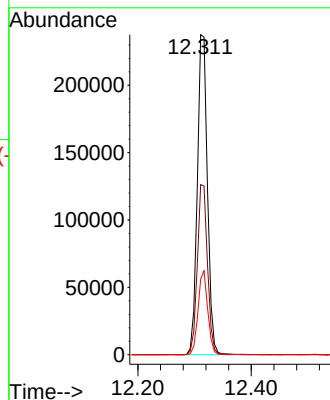
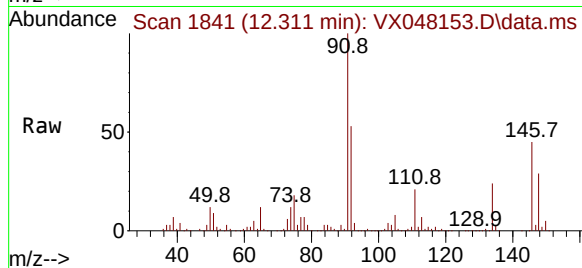
134 24.9 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#90

Hexachloroethane

Concen: 57.198 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX048153.D

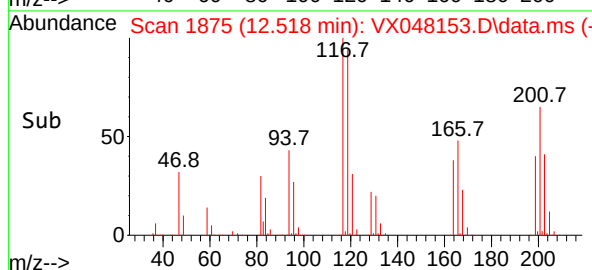
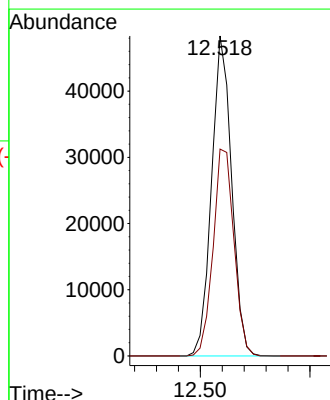
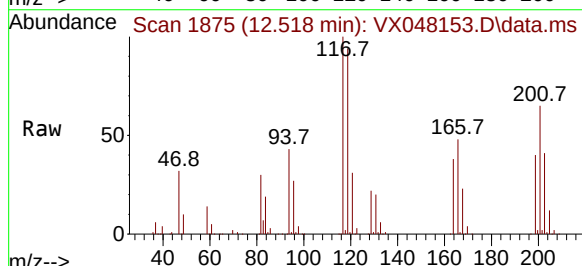
Acq: 14 Oct 2025 10:02

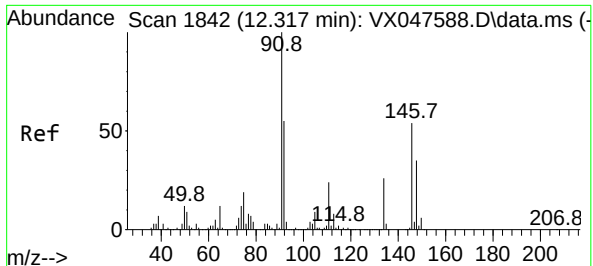
Tgt Ion:117 Resp: 61342

Ion Ratio Lower Upper

117 100

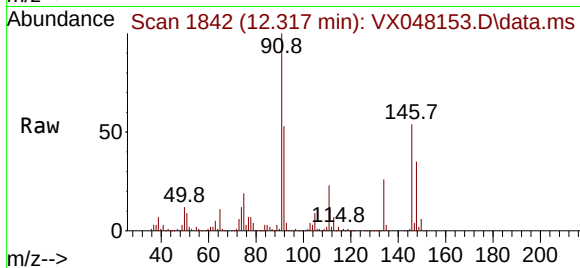
201 67.4 34.2 102.5





#91
1,2-Dichlorobenzene
Concen: 50.687 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

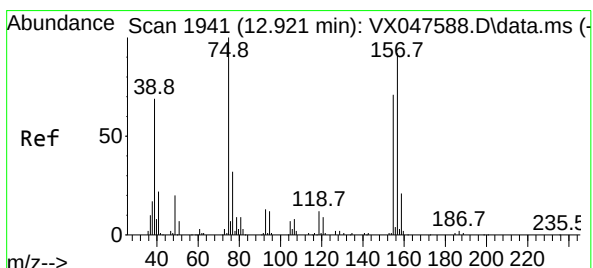
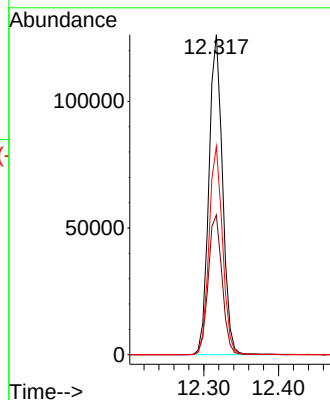
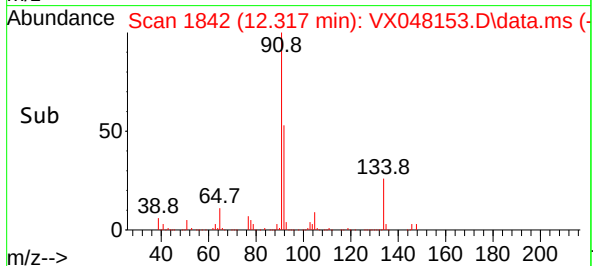
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



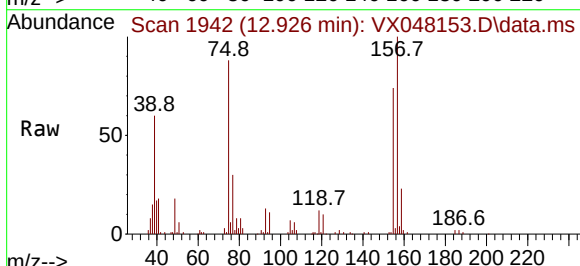
Tgt Ion:146 Resp: 159552
Ion Ratio Lower Upper
146 100
111 44.4 22.2 66.6
148 64.8 31.8 95.4

Manual Integrations
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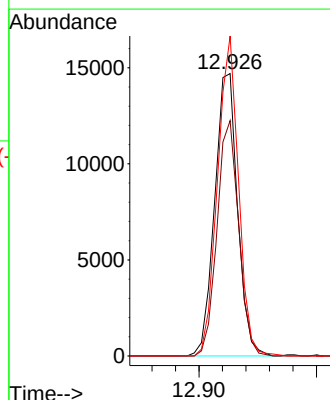
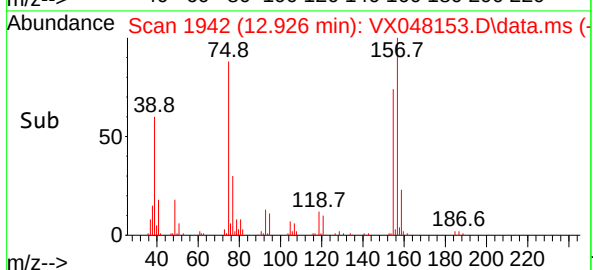
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

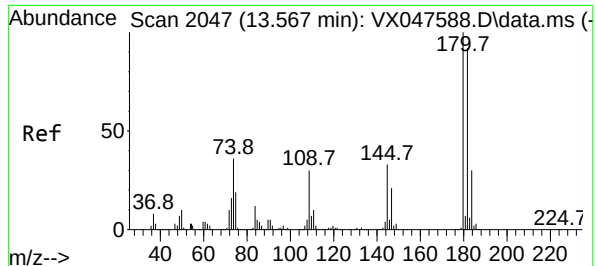


#92
1,2-Dibromo-3-Chloropropane
Concen: 45.030 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02



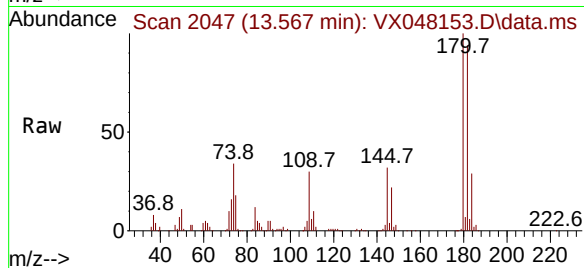
Tgt Ion: 75 Resp: 19922
Ion Ratio Lower Upper
75 100
155 78.4 37.7 113.1
157 103.4 49.8 149.4





#93
1,2,4-Trichlorobenzene
Concen: 47.675 ug/l
RT: 13.567 min Scan# 2047
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02

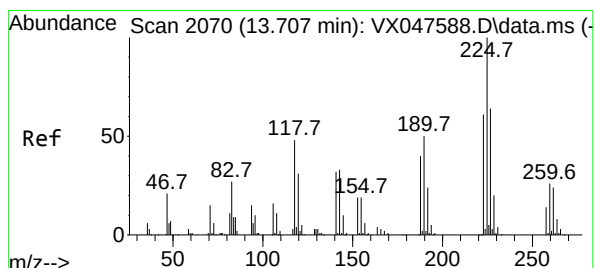
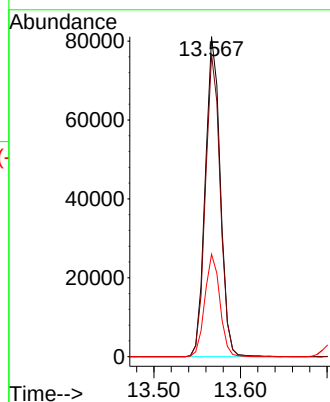
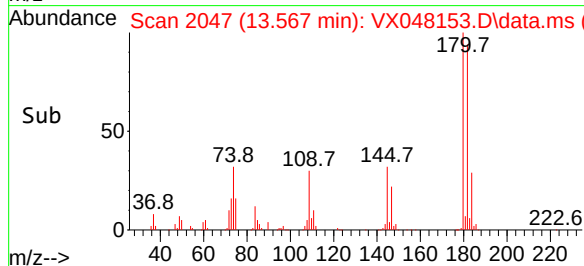
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



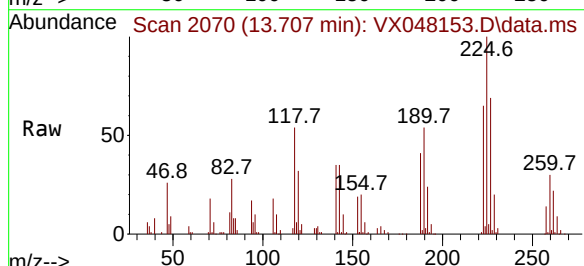
Tgt Ion:180 Resp: 9753
Ion Ratio Lower Upper
180 100
182 93.9 46.6 139.8
145 32.1 16.4 49.1

Manual Integrations
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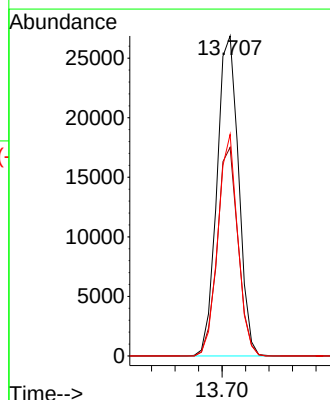
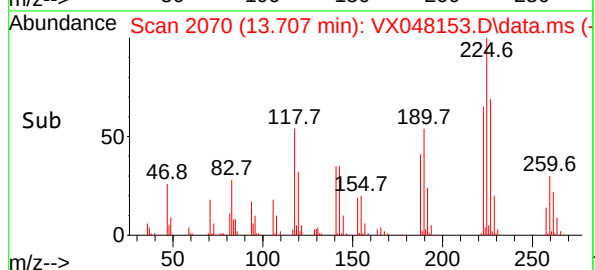
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

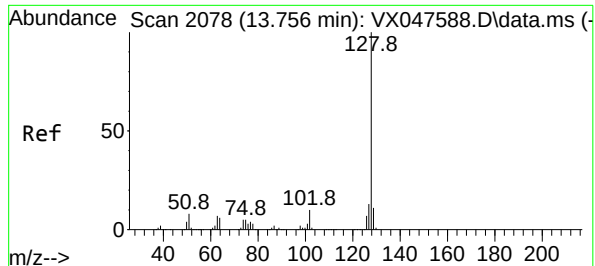


#94
Hexachlorobutadiene
Concen: 49.395 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX048153.D
Acq: 14 Oct 2025 10:02



Tgt Ion:225 Resp: 34324
Ion Ratio Lower Upper
225 100
223 62.8 31.7 95.1
227 63.6 32.0 96.0





#95

Naphthalene

Concen: 45.578 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. -0.000 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:128 Resp: 283930

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.2

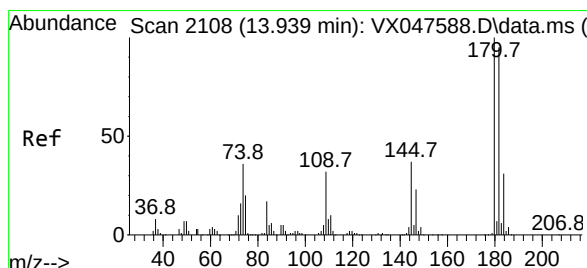
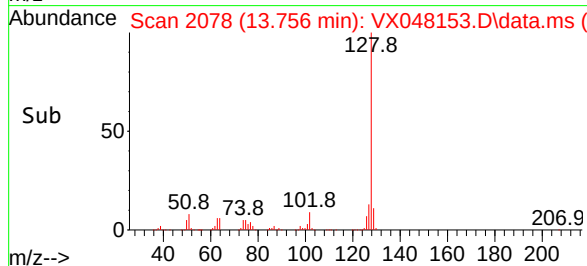
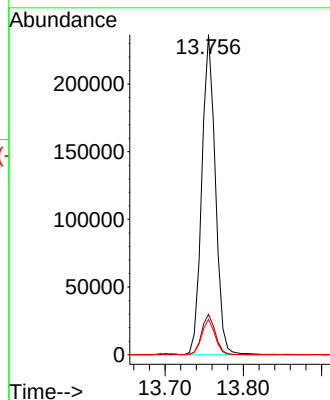
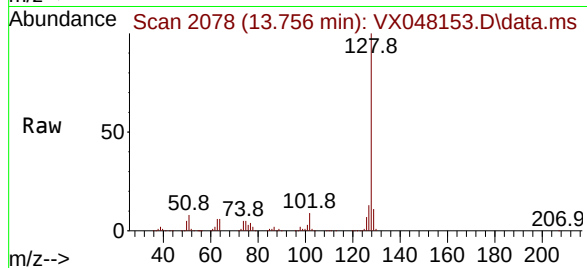
129 10.8 8.8 13.2

Manual Integrations

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Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#96

1,2,3-Trichlorobenzene

Concen: 48.208 ug/l

RT: 13.938 min Scan# 2108

Delta R.T. -0.000 min

Lab File: VX048153.D

Acq: 14 Oct 2025 10:02

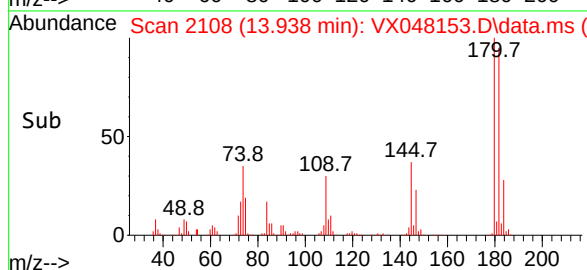
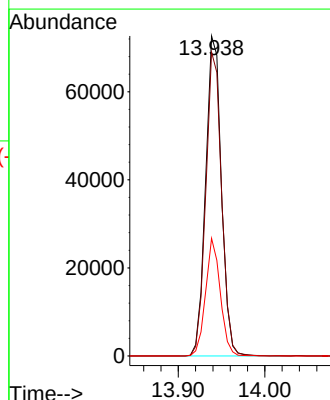
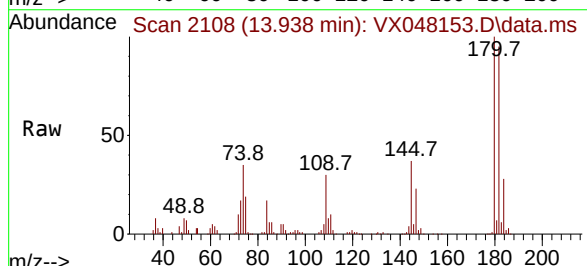
Tgt Ion:180 Resp: 91741

Ion Ratio Lower Upper

180 100

182 95.2 47.6 142.8

145 34.4 17.9 53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101425\
Data File : VX048153.D
Acq On : 14 Oct 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 15 02:39:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	72	-0.01
2 T	Dichlorodifluoromethane	0.518	0.667	-28.8#	96	0.00
3 P	Chloromethane	0.680	0.757	-11.3	82	0.00
4 C	Vinyl Chloride	0.666	0.847	-27.2#	92	0.00
5 T	Bromomethane	0.422	0.520	-23.2	88	0.00
6 T	Chloroethane	0.445	0.518	-16.4	84	0.00
7 T	Trichlorofluoromethane	0.989	1.294	-30.8#	94	0.00
8 T	Diethyl Ether	0.405	0.430	-6.2	76	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.578	0.719	-24.4	89	0.00
10 T	Methyl Iodide	0.902	0.800	11.3	63	0.00
11 T	Tert butyl alcohol	0.089	0.076	14.6	61	0.00
12 CM	1,1-Dichloroethene	0.594	0.702	-18.2#	84	0.00
13 T	Acrolein	0.082	0.090	-9.8	79	0.00
14 T	Allyl chloride	1.226	1.248	-1.8	74	0.00
15 T	Acrylonitrile	0.328	0.333	-1.5	69	0.00
16 T	Acetone	0.346	0.318	8.1	72	0.00
17 T	Carbon Disulfide	1.626	2.086	-28.3#	96	0.00
18 T	Methyl Acetate	0.770	0.685	11.0	56	0.00
19 T	Methyl tert-butyl Ether	2.169	2.175	-0.3	70	0.00
20 T	Methylene Chloride	0.732	0.779	-6.4	77	0.00
21 T	trans-1,2-Dichloroethene	0.640	0.738	-15.3	82	0.00
22 T	Diisopropyl ether	2.376	2.505	-5.4	73	-0.01
23 T	Vinyl Acetate	1.901	1.901	0.0	69	0.00
24 P	1,1-Dichloroethane	1.263	1.365	-8.1	76	0.00
25 T	2-Butanone	0.432	0.397	8.1	65	0.00
26 T	2,2-Dichloropropane	1.050	1.114	-6.1	75	0.00
27 T	cis-1,2-Dichloroethene	0.783	0.834	-6.5	74	0.00
28 T	Bromochloromethane	0.551	0.528	4.2	66	-0.01
29 T	Tetrahydrofuran	0.260	0.244	6.2	64	0.00
30 C	Chloroform	1.276	1.395	-9.3#	76	0.00
31 T	Cyclohexane	1.052	1.169	-11.1	82	0.00
32 T	1,1,1-Trichloroethane	1.082	1.227	-13.4	78	0.00
33 S	1,2-Dichloroethane-d4	0.796	0.845	-6.2	79	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	69	0.00
35 S	Dibromofluoromethane	0.335	0.391	-16.7	82	0.00
36 T	1,1-Dichloropropene	0.490	0.555	-13.3	79	-0.01
37 T	Ethyl Acetate	0.525	0.503	4.2	65	-0.01
38 T	Carbon Tetrachloride	0.532	0.645	-21.2	83	-0.01
39 T	Methylcyclohexane	0.556	0.660	-18.7	81	0.00
40 TM	Benzene	1.488	1.679	-12.8	76	0.00
41 T	Methacrylonitrile	0.271	0.280	-3.3	68	0.00
42 TM	1,2-Dichloroethane	0.566	0.618	-9.2	73	0.00
43 T	Isopropyl Acetate	0.860	0.809	5.9	62	0.00
44 TM	Trichloroethene	0.360	0.415	-15.3	77	0.00
45 C	1,2-Dichloropropane	0.381	0.420	-10.2#	73	0.00
46 T	Dibromomethane	0.277	0.303	-9.4	73	0.00
47 T	Bromodichloromethane	0.572	0.658	-15.0	75	0.00
48 T	Methyl methacrylate	0.429	0.413	3.7	63	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101425\
Data File : VX048153.D
Acq On : 14 Oct 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 15 02:39:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	0.004	0.005	-25.0	67	0.00
50 S	Toluene-d8	1.160	1.287	-10.9	78	0.00
51 T	4-Methyl-2-Pentanone	0.477	0.470	1.5	64	0.00
52 CM	Toluene	0.917	1.028	-12.1#	76	0.00
53 T	t-1,3-Dichloropropene	0.584	0.626	-7.2	70	0.00
54 T	cis-1,3-Dichloropropene	0.624	0.683	-9.5	72	0.00
55 T	1,1,2-Trichloroethane	0.354	0.381	-7.6	72	0.00
56 T	Ethyl methacrylate	0.555	0.555	0.0	64	0.00
57 T	1,3-Dichloropropane	0.607	0.669	-10.2	72	0.00
58 T	2-Chloroethyl Vinyl ether	0.227	0.272	-19.8	69	0.00
59 T	2-Hexanone	0.343	0.327	4.7	63	0.00
60 T	Dibromochloromethane	0.407	0.473	-16.2	75	0.00
61 T	1,2-Dibromoethane	0.360	0.394	-9.4	72	0.00
62 S	4-Bromofluorobenzene	0.440	0.491	-11.6	79	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	72	0.00
64 T	Tetrachloroethene	0.326	0.383	-17.5	85	0.00
65 PM	Chlorobenzene	1.136	1.236	-8.8	76	0.00
66 T	1,1,1,2-Tetrachloroethane	0.392	0.443	-13.0	78	0.00
67 C	Ethyl Benzene	1.960	2.162	-10.3#	77	0.00
68 T	m/p-Xylenes	0.729	0.814	-11.7	77	0.00
69 T	o-Xylene	0.706	0.754	-6.8	73	0.00
70 T	Styrene	1.236	1.320	-6.8	74	0.00
71 P	Bromoform	0.293	0.316	-7.8	73	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	74	0.00
73 T	Isopropylbenzene	3.801	3.991	-5.0	73	0.00
74 T	N-amyl acetate	1.733	1.586	8.5	63	0.00
75 P	1,1,2,2-Tetrachloroethane	1.150	1.134	1.4	69	0.00
76 T	1,2,3-Trichloropropane	1.012	1.030	-1.8	68	0.00
77 T	Bromobenzene	0.936	0.962	-2.8	72	0.00
78 T	n-propylbenzene	4.494	4.818	-7.2	75	0.00
79 T	2-Chlorotoluene	2.752	2.835	-3.0	72	0.00
80 T	1,3,5-Trimethylbenzene	3.123	3.295	-5.5	73	0.00
81 T	trans-1,4-Dichloro-2-butene	0.397	0.370	6.8	66	0.00
82 T	4-Chlorotoluene	3.251	3.366	-3.5	73	0.00
83 T	tert-Butylbenzene	3.197	3.184	0.4	70	0.00
84 T	1,2,4-Trimethylbenzene	3.166	3.314	-4.7	74	0.00
85 T	sec-Butylbenzene	3.797	3.999	-5.3	74	0.00
86 T	p-Isopropyltoluene	3.215	3.354	-4.3	73	0.00
87 T	1,3-Dichlorobenzene	1.739	1.779	-2.3	73	0.00
88 T	1,4-Dichlorobenzene	1.785	1.799	-0.8	73	0.00
89 T	n-Butylbenzene	2.975	3.095	-4.0	73	0.00
90 T	Hexachloroethane	0.564	0.646	-14.5	81	0.00
91 T	1,2-Dichlorobenzene	1.657	1.679	-1.3	72	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.233	0.210	9.9	61	0.00
93 T	1,2,4-Trichlorobenzene	1.077	1.027	4.6	66	0.00
94 T	Hexachlorobutadiene	0.366	0.361	1.4	70	0.00
95 T	Naphthalene	3.279	2.989	8.8	63	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101425\
Data File : VX048153.D
Acq On : 14 Oct 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 15 02:39:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	1.002	0.966	3.6	66	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101425\
Data File : VX048153.D
Acq On : 14 Oct 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 15 02:39:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	72	-0.01
2 T	Dichlorodifluoromethane	50.000	64.394	-28.8#	96	0.00
3 P	Chloromethane	50.000	55.622	-11.2	82	0.00
4 C	Vinyl Chloride	50.000	63.566	-27.1#	92	0.00
5 T	Bromomethane	50.000	61.550	-23.1	88	0.00
6 T	Chloroethane	50.000	58.162	-16.3	84	0.00
7 T	Trichlorofluoromethane	50.000	65.398	-30.8#	94	0.00
8 T	Diethyl Ether	50.000	53.186	-6.4	76	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	62.168	-24.3	89	0.00
10 T	Methyl Iodide	50.000	44.362	11.3	63	0.00
11 T	Tert butyl alcohol	250.000	213.436	14.6	61	0.00
12 CM	1,1-Dichloroethene	50.000	59.068	-18.1#	84	0.00
13 T	Acrolein	250.000	275.177	-10.1	79	0.00
14 T	Allyl chloride	50.000	50.919	-1.8	74	0.00
15 T	Acrylonitrile	250.000	253.713	-1.5	69	0.00
16 T	Acetone	250.000	229.513	8.2	72	0.00
17 T	Carbon Disulfide	50.000	64.145	-28.3#	96	0.00
18 T	Methyl Acetate	50.000	44.499	11.0	56	0.00
19 T	Methyl tert-butyl Ether	50.000	50.140	-0.3	70	0.00
20 T	Methylene Chloride	50.000	53.153	-6.3	77	0.00
21 T	trans-1,2-Dichloroethene	50.000	57.678	-15.4	82	0.00
22 T	Diisopropyl ether	50.000	52.712	-5.4	73	-0.01
23 T	Vinyl Acetate	250.000	249.999	0.0	69	0.00
24 P	1,1-Dichloroethane	50.000	54.042	-8.1	76	0.00
25 T	2-Butanone	250.000	229.881	8.0	65	0.00
26 T	2,2-Dichloropropane	50.000	53.086	-6.2	75	0.00
27 T	cis-1,2-Dichloroethene	50.000	53.263	-6.5	74	0.00
28 T	Bromochloromethane	50.000	47.909	4.2	66	-0.01
29 T	Tetrahydrofuran	250.000	234.875	6.0	64	0.00
30 C	Chloroform	50.000	54.659	-9.3#	76	0.00
31 T	Cyclohexane	50.000	55.594	-11.2	82	0.00
32 T	1,1,1-Trichloroethane	50.000	56.700	-13.4	78	0.00
33 S	1,2-Dichloroethane-d4	50.000	53.069	-6.1	79	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	69	0.00
35 S	Dibromofluoromethane	50.000	58.375	-16.8	82	0.00
36 T	1,1-Dichloropropene	50.000	56.673	-13.3	79	-0.01
37 T	Ethyl Acetate	50.000	47.964	4.1	65	-0.01
38 T	Carbon Tetrachloride	50.000	60.555	-21.1	83	-0.01
39 T	Methylcyclohexane	50.000	59.319	-18.6	81	0.00
40 TM	Benzene	50.000	56.422	-12.8	76	0.00
41 T	Methacrylonitrile	50.000	51.733	-3.5	68	0.00
42 TM	1,2-Dichloroethane	50.000	54.535	-9.1	73	0.00
43 T	Isopropyl Acetate	50.000	47.003	6.0	62	0.00
44 TM	Trichloroethene	50.000	57.700	-15.4	77	0.00
45 C	1,2-Dichloropropane	50.000	55.124	-10.2#	73	0.00
46 T	Dibromomethane	50.000	54.583	-9.2	73	0.00
47 T	Bromodichloromethane	50.000	57.493	-15.0	75	0.00
48 T	Methyl methacrylate	50.000	48.182	3.6	63	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101425\
Data File : VX048153.D
Acq On : 14 Oct 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 15 02:39:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	1079.897	-8.0	67	0.00
50 S	Toluene-d8	50.000	55.475	-11.0	78	0.00
51 T	4-Methyl-2-Pentanone	250.000	246.453	1.4	64	0.00
52 CM	Toluene	50.000	56.065	-12.1#	76	0.00
53 T	t-1,3-Dichloropropene	50.000	53.629	-7.3	70	0.00
54 T	cis-1,3-Dichloropropene	50.000	54.766	-9.5	72	0.00
55 T	1,1,2-Trichloroethane	50.000	53.920	-7.8	72	0.00
56 T	Ethyl methacrylate	50.000	49.978	0.0	64	0.00
57 T	1,3-Dichloropropane	50.000	55.058	-10.1	72	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	255.570	-2.2	69	0.00
59 T	2-Hexanone	250.000	238.613	4.6	63	0.00
60 T	Dibromochloromethane	50.000	58.035	-16.1	75	0.00
61 T	1,2-Dibromoethane	50.000	54.765	-9.5	72	0.00
62 S	4-Bromofluorobenzene	50.000	55.785	-11.6	79	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	72	0.00
64 T	Tetrachloroethene	50.000	58.763	-17.5	85	0.00
65 PM	Chlorobenzene	50.000	54.406	-8.8	76	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	56.554	-13.1	78	0.00
67 C	Ethyl Benzene	50.000	55.162	-10.3#	77	0.00
68 T	m/p-Xylenes	100.000	111.573	-11.6	77	0.00
69 T	o-Xylene	50.000	53.430	-6.9	73	0.00
70 T	Styrene	50.000	53.377	-6.8	74	0.00
71 P	Bromoform	50.000	54.014	-8.0	73	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	74	0.00
73 T	Isopropylbenzene	50.000	52.496	-5.0	73	0.00
74 T	N-amyl acetate	50.000	45.741	8.5	63	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.321	1.4	69	0.00
76 T	1,2,3-Trichloropropane	50.000	50.893	-1.8	68	0.00
77 T	Bromobenzene	50.000	51.393	-2.8	72	0.00
78 T	n-propylbenzene	50.000	53.607	-7.2	75	0.00
79 T	2-Chlorotoluene	50.000	51.503	-3.0	72	0.00
80 T	1,3,5-Trimethylbenzene	50.000	52.746	-5.5	73	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	46.604	6.8	66	0.00
82 T	4-Chlorotoluene	50.000	51.769	-3.5	73	0.00
83 T	tert-Butylbenzene	50.000	49.789	0.4	70	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.326	-4.7	74	0.00
85 T	sec-Butylbenzene	50.000	52.657	-5.3	74	0.00
86 T	p-Isopropyltoluene	50.000	52.167	-4.3	73	0.00
87 T	1,3-Dichlorobenzene	50.000	51.154	-2.3	73	0.00
88 T	1,4-Dichlorobenzene	50.000	50.386	-0.8	73	0.00
89 T	n-Butylbenzene	50.000	52.013	-4.0	73	0.00
90 T	Hexachloroethane	50.000	57.198	-14.4	81	0.00
91 T	1,2-Dichlorobenzene	50.000	50.687	-1.4	72	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	45.030	9.9	61	0.00
93 T	1,2,4-Trichlorobenzene	50.000	47.675	4.7	66	0.00
94 T	Hexachlorobutadiene	50.000	49.395	1.2	70	0.00
95 T	Naphthalene	50.000	45.578	8.8	63	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101425\
Data File : VX048153.D
Acq On : 14 Oct 2025 10:02
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Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Oct 15 02:39:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 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	48.208	3.6	66	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



QC SAMPLE DATA

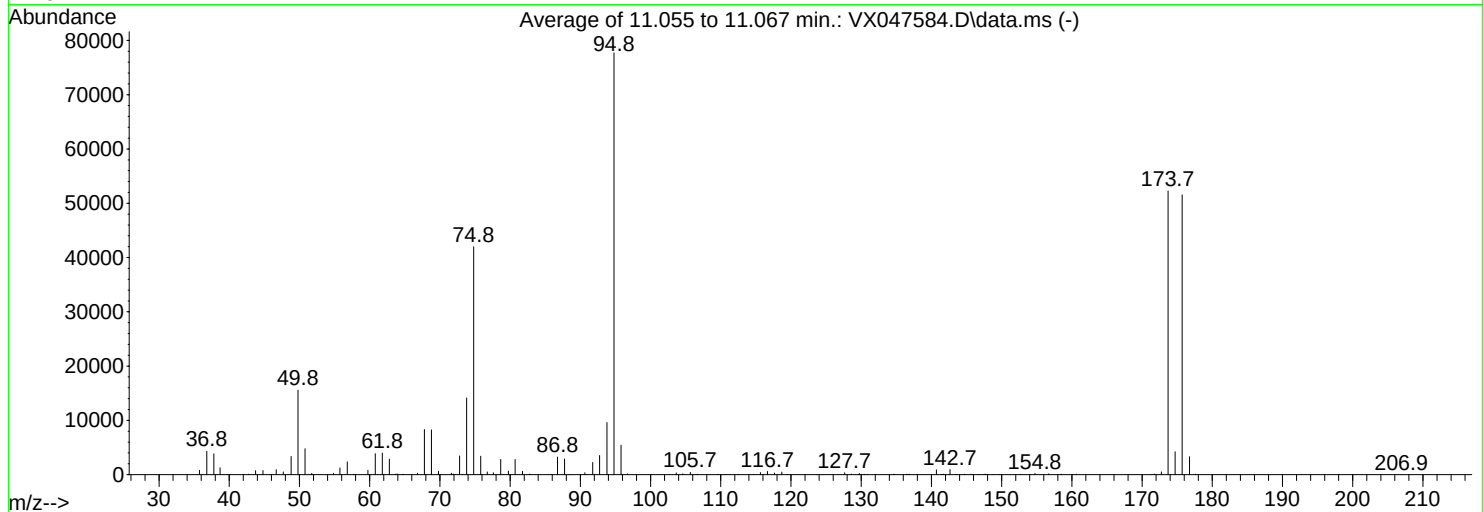
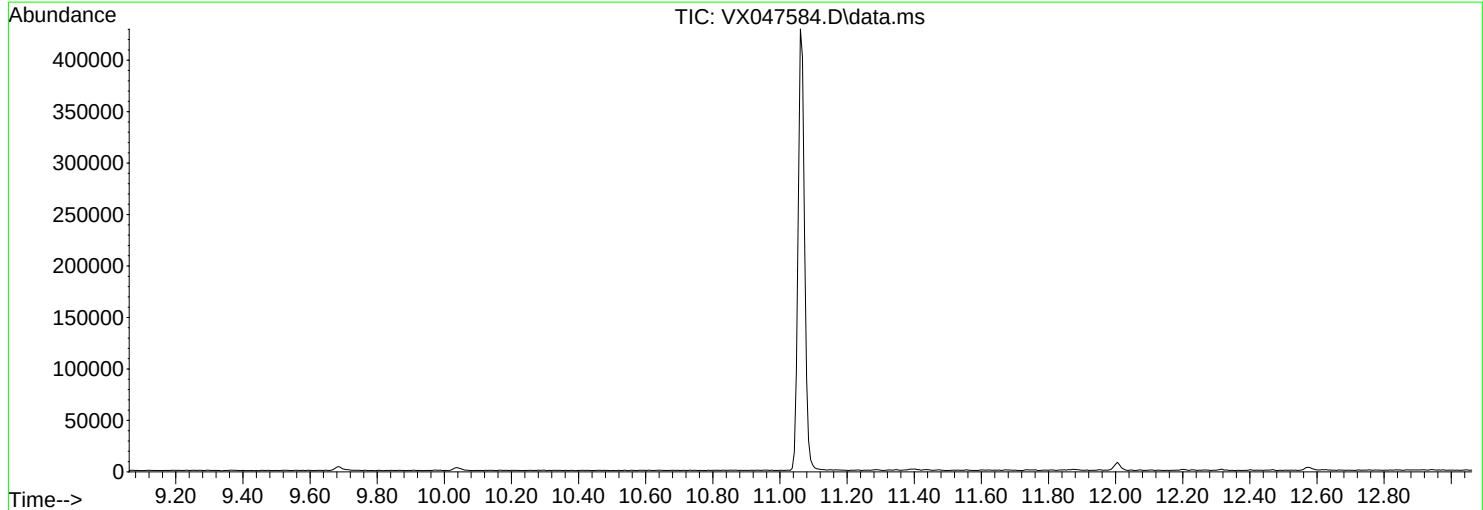
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- 13
- 14
- 15
- 16

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047584.D
Acq On : 16 Sep 2025 08:56
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\82X091625W.M
Title : SW846 8260
Last Update : Wed Sep 17 06:39:58 2025



AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1628

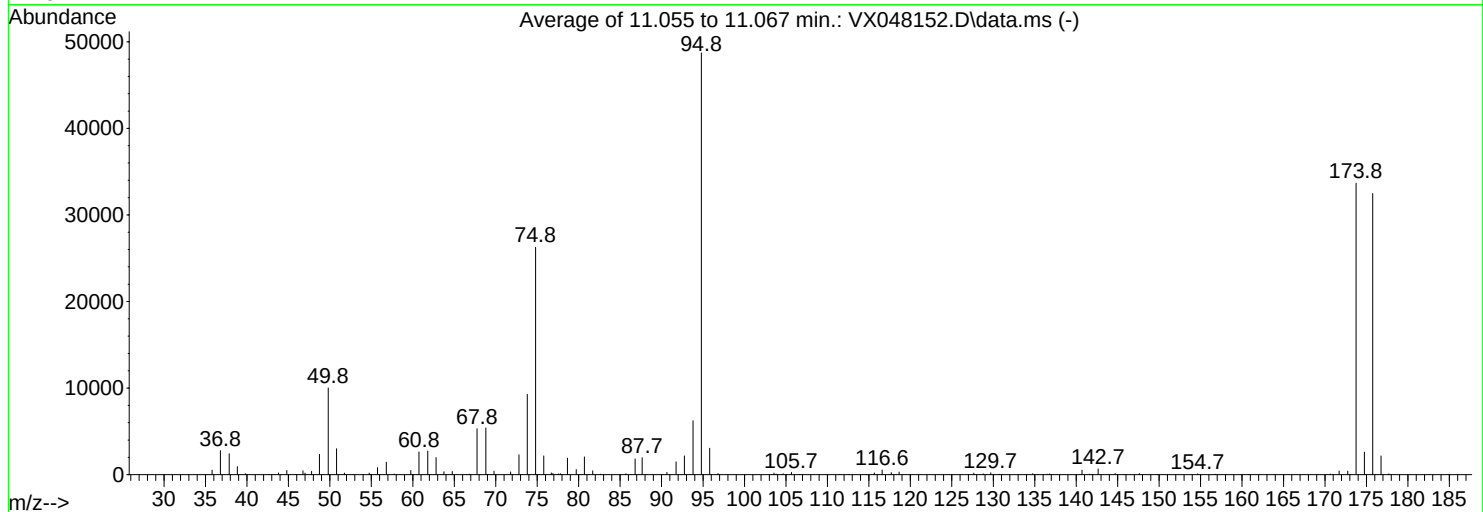
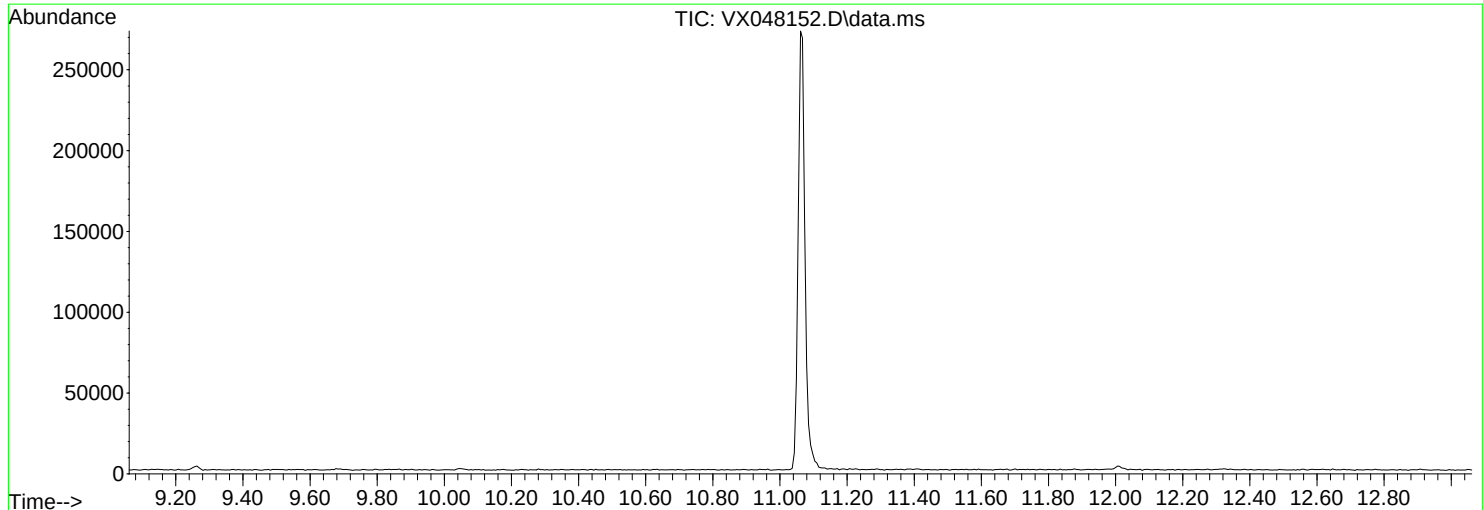
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	20.0	15566	PASS
75	95	30	60	54.0	41979	PASS
95	95	100	100	100.0	77717	PASS
96	95	5	9	7.0	5432	PASS
173	174	0.00	2	1.0	507	PASS
174	95	50	100	67.3	52275	PASS
175	174	5	9	8.1	4209	PASS
176	174	95	101	98.6	51560	PASS
177	176	5	9	6.4	3311	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101425\
Data File : VX048152.D
Acq On : 14 Oct 2025 09:33
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\82X091625W.M
Title : SW846 8260
Last Update : Wed Sep 17 06:39:58 2025



AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1629

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	20.6	10025	PASS
75	95	30	60	53.9	26259	PASS
95	95	100	100	100.0	48723	PASS
96	95	5	9	6.2	3044	PASS
173	174	0.00	2	1.2	399	PASS
174	95	50	100	69.1	33677	PASS
175	174	5	9	7.7	2598	PASS
176	174	95	101	96.5	32483	PASS
177	176	5	9	6.7	2171	PASS



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

Report of Analysis

Client: Core Environmental Consultants and Services, Inc.
Project: The Wills Building
Client Sample ID: VX1014WBL01
Lab Sample ID: VX1014WBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level : LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3312
Matrix: Water
% Solid: 0
Test: VOC-BTEX

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
71-43-2	Benzene	1.00	U	1	0.15	1.00	ug/L	10/14/25 10:52	VX101425
108-88-3	Toluene	1.00	U	1	0.14	1.00	ug/L	10/14/25 10:52	VX101425
100-41-4	Ethyl Benzene	1.00	U	1	0.13	1.00	ug/L	10/14/25 10:52	VX101425
179601-23-1	m/p-Xylenes	2.00	U	1	0.24	2.00	ug/L	10/14/25 10:52	VX101425
95-47-6	o-Xylene	1.00	U	1	0.12	1.00	ug/L	10/14/25 10:52	VX101425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	55.0			74 - 125	110%	SPK: 50		
1868-53-7	Dibromofluoromethane	52.0			75 - 124	104%	SPK: 50		
2037-26-5	Toluene-d8	50.4			86 - 113	101%	SPK: 50		
460-00-4	4-Bromofluorobenzene	56.5			77 - 121	113%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	132000							
540-36-3	1,4-Difluorobenzene	270000							
3114-55-4	Chlorobenzene-d5	286000							
3855-82-1	1,4-Dichlorobenzene-d4	142000							

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\VX101425\
Data File : VX048155.D
Acq On : 14 Oct 2025 10:52
Operator : JC/MD
Sample : VX1014WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBL01

Quant Time: Oct 15 02:40:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	131511	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	270081	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	285912	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	141849	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	115134	55.001	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	110.000%
35) Dibromofluoromethane	5.379	113	94255	52.037	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.080%
50) Toluene-d8	8.635	98	316005	50.420	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	100.840%
62) 4-Bromofluorobenzene	11.067	95	134411	56.508	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	113.020%

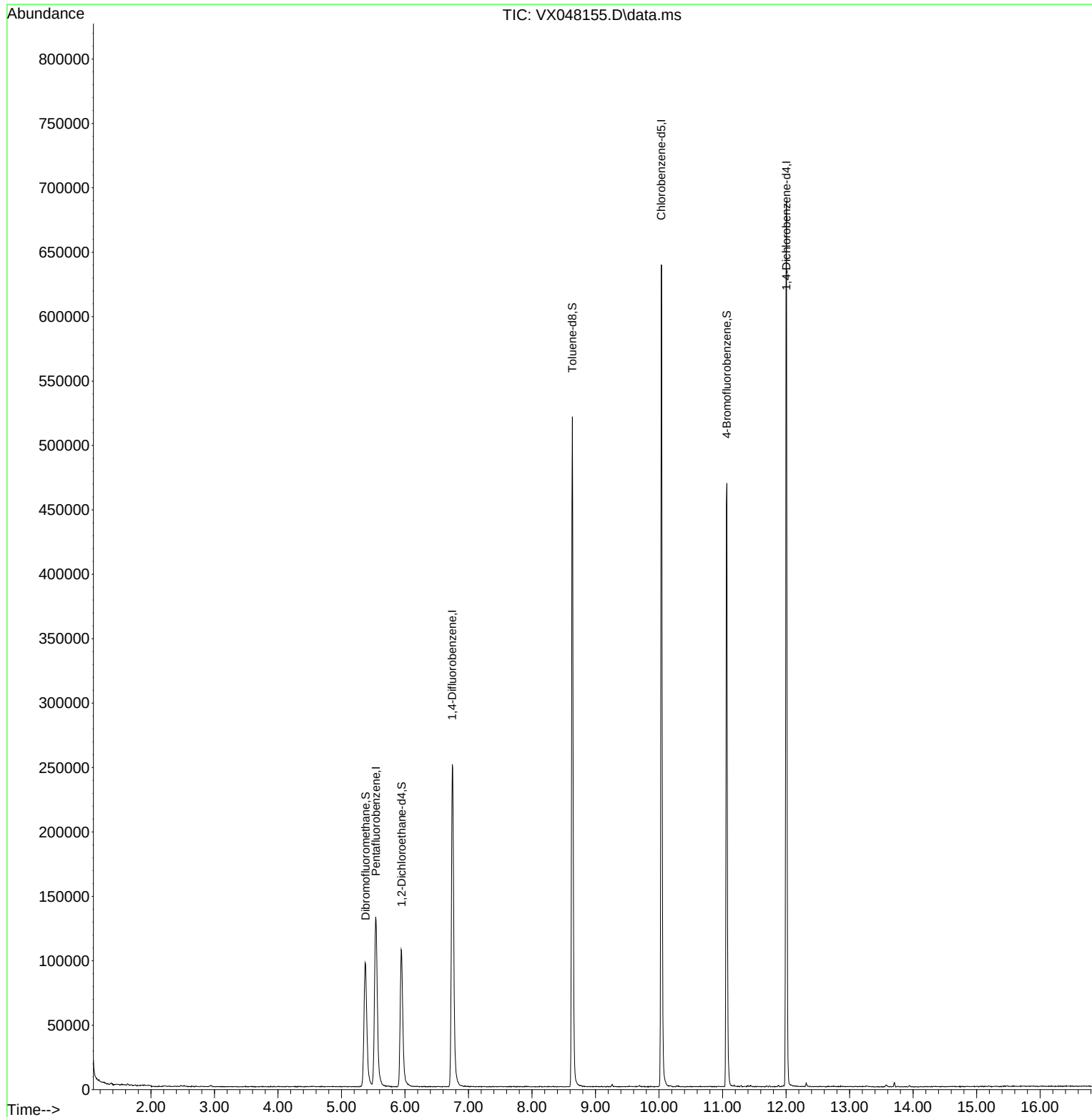
Target Compounds	Qvalue

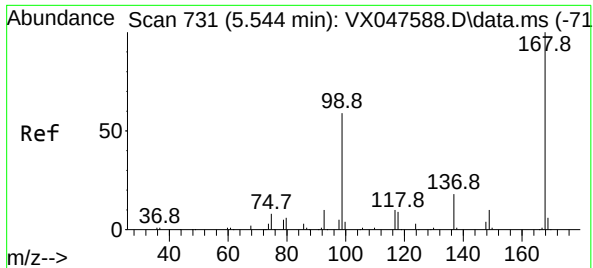
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101425\
Data File : VX048155.D
Acq On : 14 Oct 2025 10:52
Operator : JC/MD
Sample : VX1014WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBL01

Quant Time: Oct 15 02:40:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

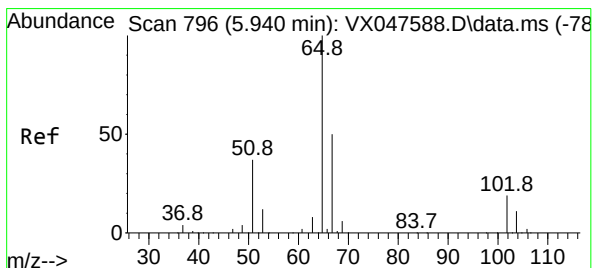
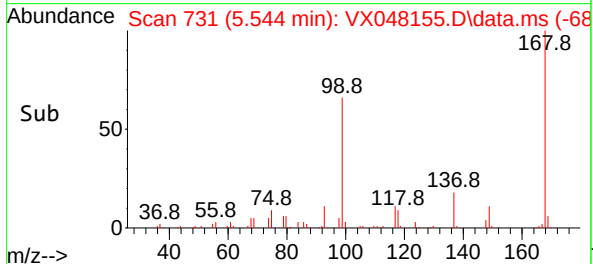
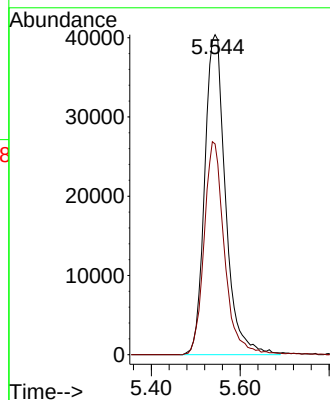
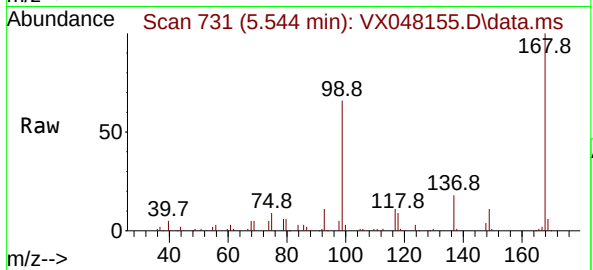




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 711
Delta R.T. -0.000 min
Lab File: VX048155.D
Acq: 14 Oct 2025 10:52

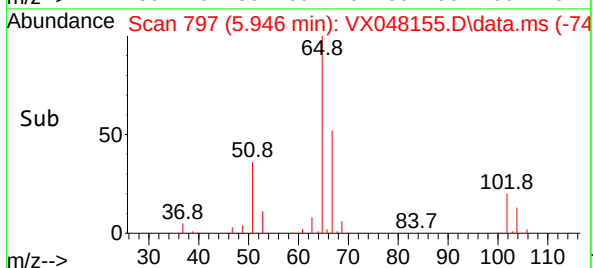
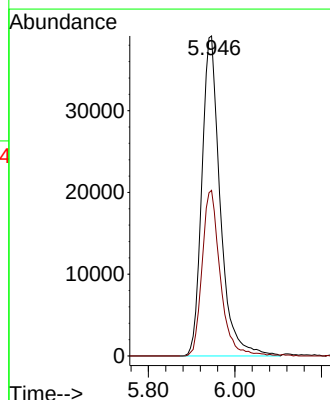
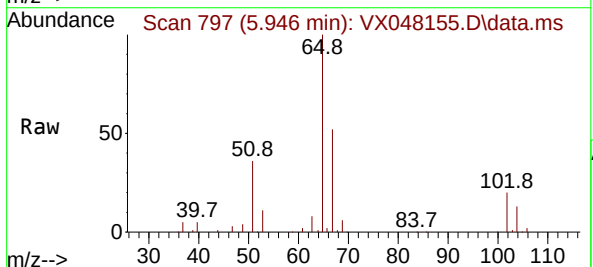
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBL01

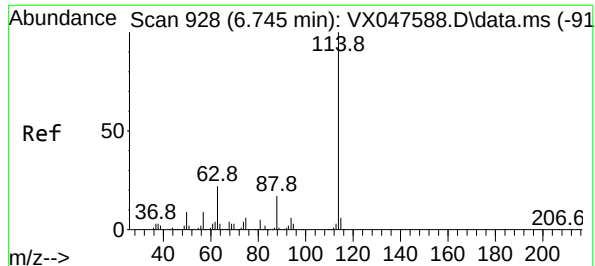
Tgt Ion:168 Resp: 131511
Ion Ratio Lower Upper
168 100
99 65.8 48.8 73.2



#33
1,2-Dichloroethane-d4
Concen: 55.001 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX048155.D
Acq: 14 Oct 2025 10:52

Tgt Ion: 65 Resp: 115134
Ion Ratio Lower Upper
65 100
67 51.3 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX048155.D

Acq: 14 Oct 2025 10:52

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBL01

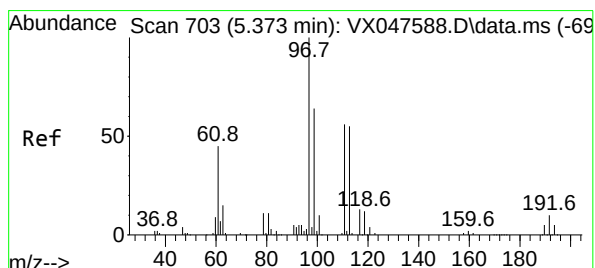
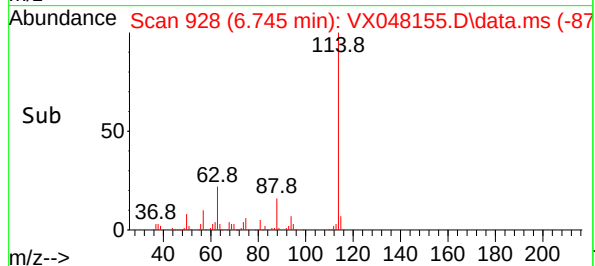
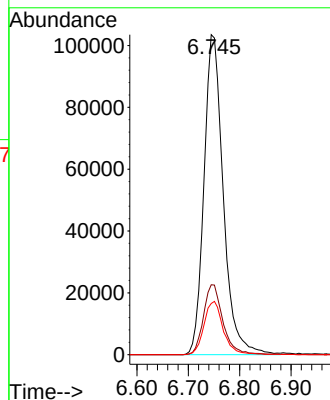
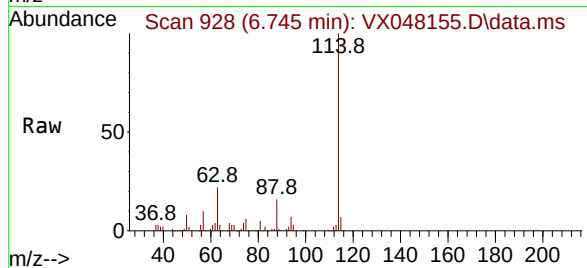
Tgt Ion:114 Resp: 270081

Ion Ratio Lower Upper

114 100

63 21.8 0.0 44.0

88 16.0 0.0 34.2



#35

Dibromofluoromethane

Concen: 52.037 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX048155.D

Acq: 14 Oct 2025 10:52

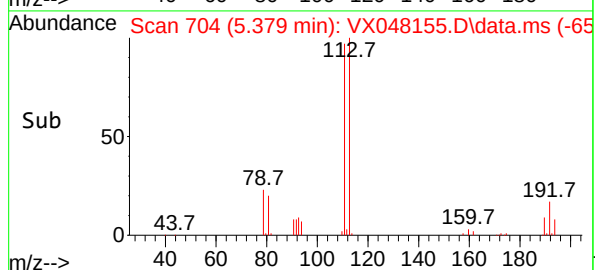
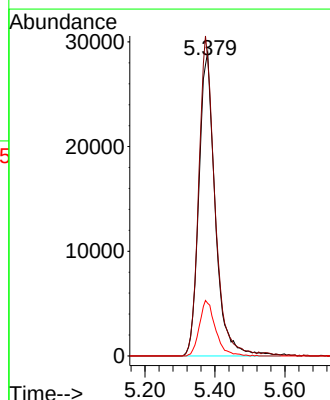
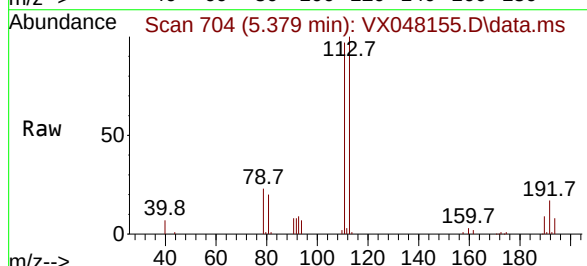
Tgt Ion:113 Resp: 94255

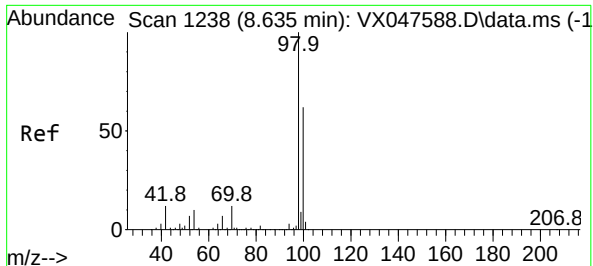
Ion Ratio Lower Upper

113 100

111 102.7 80.9 121.3

192 17.9 14.2 21.4

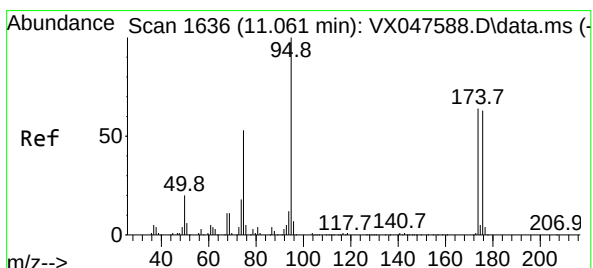
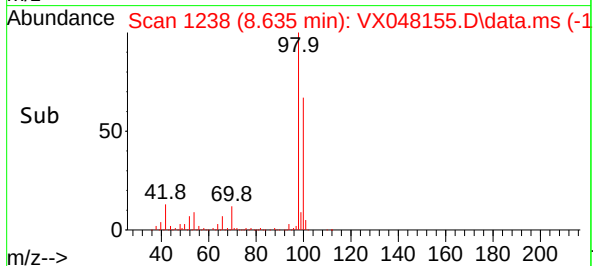
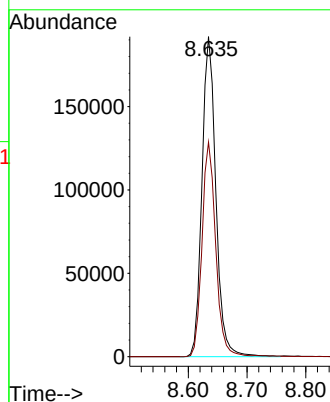
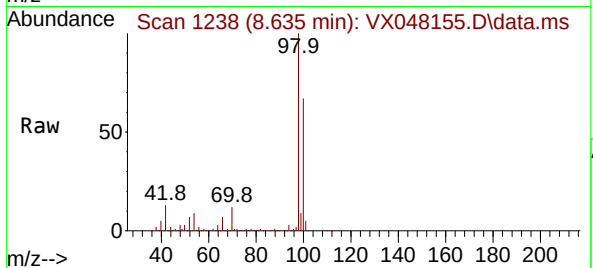




#50
Toluene-d8
Concen: 50.420 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048155.D
Acq: 14 Oct 2025 10:52

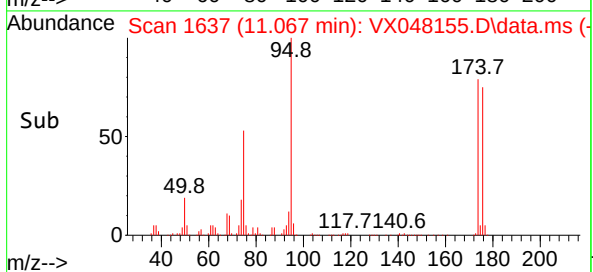
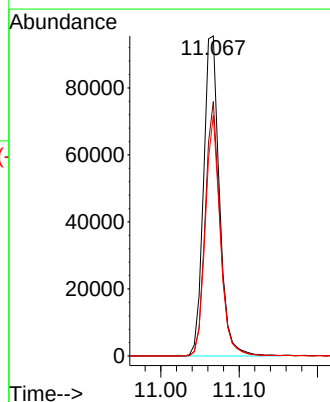
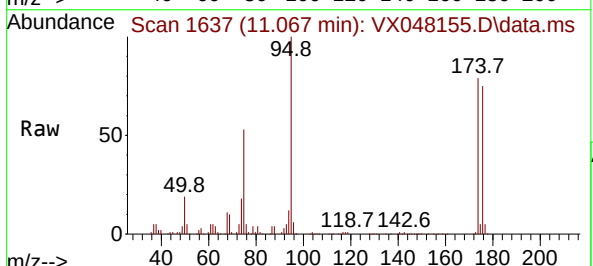
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBL01

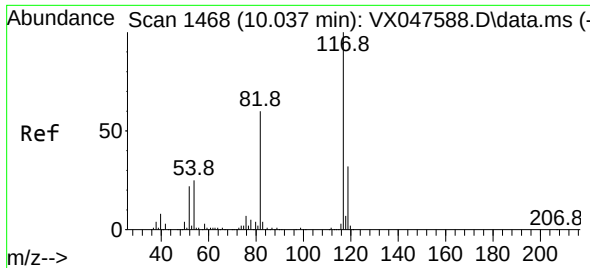
Tgt Ion: 98 Resp: 316005
Ion Ratio Lower Upper
98 100
100 66.3 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 56.508 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX048155.D
Acq: 14 Oct 2025 10:52

Tgt Ion: 95 Resp: 134411
Ion Ratio Lower Upper
95 100
174 75.2 0.0 141.6
176 70.4 0.0 138.4

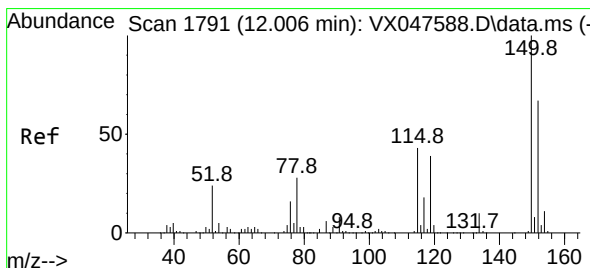
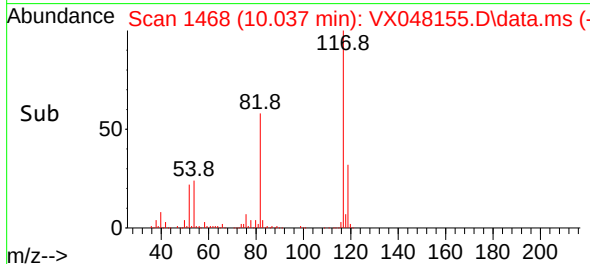
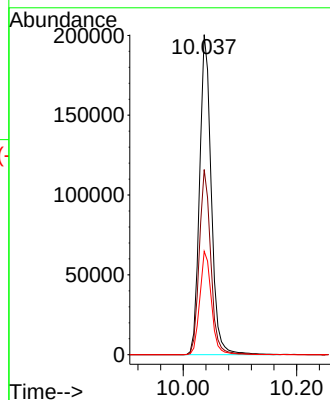
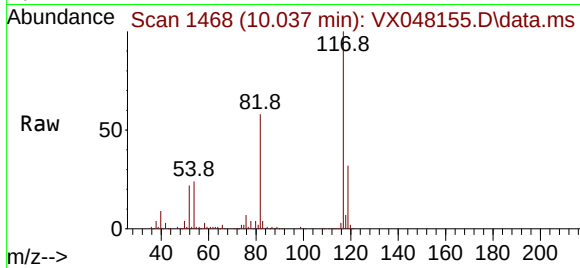




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048155.D
Acq: 14 Oct 2025 10:52

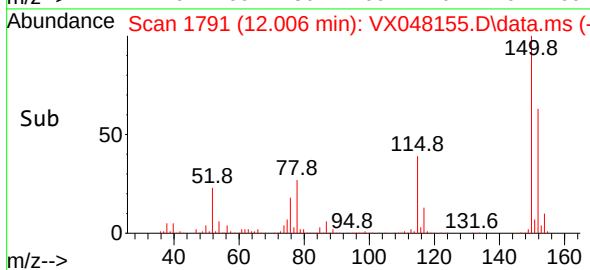
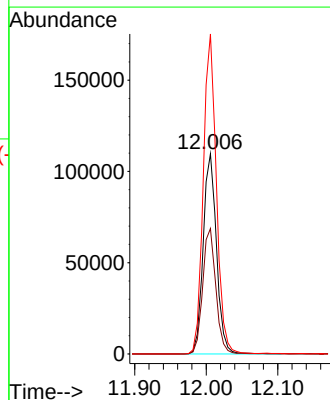
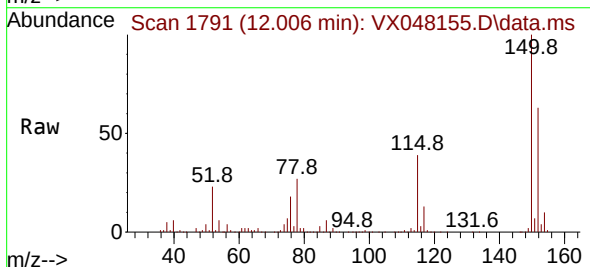
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBL01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.9	47.8	71.6
119	32.3	25.2	37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048155.D
Acq: 14 Oct 2025 10:52

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.2	44.9	134.5
150	157.3	0.0	352.0



Report of Analysis

Client: Core Environmental Consultants and Services, Inc.
 Project: The Wills Building
 Client Sample ID: VX1014WBS01
 Lab Sample ID: VX1014WBS01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level : LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3312
 Matrix: Water
 % Solid: 0
 Test: VOC-BTEX

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
71-43-2	Benzene	19.6		1	0.15	1.00	ug/L	10/14/25 11:20	VX101425
108-88-3	Toluene	20.0		1	0.14	1.00	ug/L	10/14/25 11:20	VX101425
100-41-4	Ethyl Benzene	19.2		1	0.13	1.00	ug/L	10/14/25 11:20	VX101425
179601-23-1	m/p-Xylenes	39.5		1	0.24	2.00	ug/L	10/14/25 11:20	VX101425
95-47-6	o-Xylene	19.2		1	0.12	1.00	ug/L	10/14/25 11:20	VX101425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	42.8			74 - 125	86%	SPK: 50		
1868-53-7	Dibromofluoromethane	52.5			75 - 124	105%	SPK: 50		
2037-26-5	Toluene-d8	51.6			86 - 113	103%	SPK: 50		
460-00-4	4-Bromofluorobenzene	52.1			77 - 121	104%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	142000							
540-36-3	1,4-Difluorobenzene	232000							
3114-55-4	Chlorobenzene-d5	210000							
3855-82-1	1,4-Dichlorobenzene-d4	113000							

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\VX101425\
 Data File : VX048156.D
 Acq On : 14 Oct 2025 11:20
 Operator : JC/MD
 Sample : VX1014WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1014WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 10/15/2025
 Supervised By : Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 02:40:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	142018	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	232029	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	210304	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	112794	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	96724	42.787	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 85.580%			
35) Dibromofluoromethane	5.367	113	81734	52.524	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.040%			
50) Toluene-d8	8.635	98	277852	51.603	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 103.200%			
62) 4-Bromofluorobenzene	11.061	95	106490	52.112	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.220%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.179	85	33620	22.861	ug/l	97
3) Chloromethane	1.300	50	34072	17.628	ug/l	97
4) Vinyl Chloride	1.380	62	35065	18.533	ug/l	99
5) Bromomethane	1.617	94	23170	19.313	ug/l	95
6) Chloroethane	1.697	64	21619	17.096	ug/l	95
7) Trichlorofluoromethane	1.898	101	54386	19.360	ug/l	98
8) Diethyl Ether	2.136	74	16812	14.630	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	33278	20.259	ug/l	99
10) Methyl Iodide	2.459	142	34342	13.405	ug/l	98
11) Tert butyl alcohol	2.940	59	15408	61.199	ug/l	97
12) 1,1-Dichloroethene	2.325	96	31946	18.933	ug/l	95
13) Acrolein	2.233	56	15519	66.890	ug/l	100
14) Allyl chloride	2.666	41	53446	15.350	ug/l	96
15) Acrylonitrile	3.056	53	70373	75.462	ug/l	98
16) Acetone	2.373	43	61217	62.282	ug/l	93
17) Carbon Disulfide	2.514	76	96326	20.853	ug/l	99
18) Methyl Acetate	2.697	43	28110	12.851	ug/l	97
19) Methyl tert-butyl Ether	3.105	73	93669	15.207	ug/l	98
20) Methylene Chloride	2.788	84	35652	17.136	ug/l	90
21) trans-1,2-Dichloroethene	3.093	96	33587	18.489	ug/l	89
22) Diisopropyl ether	3.745	45	109745	16.264	ug/l	87
23) Vinyl Acetate	3.709	43	391665	72.522	ug/l	99
24) 1,1-Dichloroethane	3.605	63	60815	16.956	ug/l	98
25) 2-Butanone	4.538	43	82654	67.415	ug/l	98
26) 2,2-Dichloropropane	4.458	77	51631	17.318	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	38377	17.250	ug/l	98
28) Bromochloromethane	4.879	49	27637	17.651	ug/l	91
29) Tetrahydrofuran	4.989	42	50003	67.795	ug/l	99
30) Chloroform	5.074	83	63951	17.645	ug/l	97
31) Cyclohexane	5.458	56	56015	18.752	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	57168	18.596	ug/l	99
36) 1,1-Dichloropropene	5.678	75	43496	19.129	ug/l	96
37) Ethyl Acetate	4.696	43	37167	15.266	ug/l	97
38) Carbon Tetrachloride	5.659	117	52488	21.245	ug/l	97
39) Methylcyclohexane	7.366	83	54184	20.992	ug/l	95
40) Benzene	6.019	78	135301	19.591	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101425\
 Data File : VX048156.D
 Acq On : 14 Oct 2025 11:20
 Operator : JC/MD
 Sample : VX1014WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1014WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/15/2025
 Supervised By : Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 02:40:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.897	41	19538	15.545	ug/l	99
42) 1,2-Dichloroethane	6.068	62	45764	17.416	ug/l	95
43) Isopropyl Acetate	6.324	43	58928	14.758	ug/l	98
44) Trichloroethene	7.104	130	35172	21.065	ug/l	87
45) 1,2-Dichloropropane	7.409	63	32826	18.562	ug/l	99
46) Dibromomethane	7.562	93	23919	18.587	ug/l	94
47) Bromodichloromethane	7.805	83	50797	19.128	ug/l	99
48) Methyl methacrylate	7.677	41	28826	14.493	ug/l	95
49) 1,4-Dioxane	7.647	88	6994	347.954	ug/l	98
51) 4-Methyl-2-Pentanone	8.555	43	170189	76.874	ug/l	99
52) Toluene	8.702	92	85201	20.024	ug/l	97
53) t-1,3-Dichloropropene	8.964	75	48713	17.984	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	53266	18.398	ug/l	97
55) 1,1,2-Trichloroethane	9.134	97	30604	18.653	ug/l	99
56) Ethyl methacrylate	9.098	69	41297	16.027	ug/l	95
57) 1,3-Dichloropropane	9.293	76	53047	18.822	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.226	63	92446	82.539	ug/l	98
59) 2-Hexanone	9.415	43	118193	74.335	ug/l	98
60) Dibromochloromethane	9.500	129	38451	20.340	ug/l	97
61) 1,2-Dibromoethane	9.592	107	32016	19.158	ug/l	99
64) Tetrachloroethene	9.256	164	31243	22.789	ug/l	95
65) Chlorobenzene	10.061	112	93338	19.536	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.146	131	33227	20.154	ug/l	99
67) Ethyl Benzene	10.177	91	157968	19.163	ug/l	99
68) m/p-Xylenes	10.287	106	121203	39.501	ug/l	97
69) o-Xylene	10.622	106	56980	19.199	ug/l	95
70) Styrene	10.640	104	99914	19.214	ug/l	98
71) Bromoform	10.780	173	24461	19.870	ug/l #	99
73) Isopropylbenzene	10.945	105	151949	17.719	ug/l	100
74) N-amyl acetate	10.823	43	51175	13.087	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.195	83	41410	15.961	ug/l	99
76) 1,2,3-Trichloropropane	11.219	75	39967m	17.501	ug/l	
77) Bromobenzene	11.177	156	36845	17.445	ug/l	94
78) n-propylbenzene	11.286	91	181568	17.911	ug/l	99
79) 2-Chlorotoluene	11.347	91	106892	17.216	ug/l	96
80) 1,3,5-Trimethylbenzene	11.433	105	124542	17.677	ug/l	97
81) trans-1,4-Dichloro-2-b...	11.000	75	12293	13.727	ug/l	96
82) 4-Chlorotoluene	11.439	91	127403	17.374	ug/l	98
83) tert-Butylbenzene	11.695	119	124884	17.316	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	124291	17.401	ug/l	99
85) sec-Butylbenzene	11.872	105	156752	18.298	ug/l	100
86) p-Isopropyltoluene	11.988	119	134054	18.484	ug/l	100
87) 1,3-Dichlorobenzene	11.951	146	70803	18.048	ug/l	97
88) 1,4-Dichlorobenzene	12.024	146	71083	17.655	ug/l	99
89) n-Butylbenzene	12.311	91	118487	17.656	ug/l	99
90) Hexachloroethane	12.518	117	25707	20.189	ug/l	99
91) 1,2-Dichlorobenzene	12.317	146	65420	17.504	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	7417	14.120	ug/l	95
93) 1,2,4-Trichlorobenzene	13.567	180	39152	16.119	ug/l	98
94) Hexachlorobutadiene	13.707	225	15606	18.915	ug/l	97
95) Naphthalene	13.756	128	103418	13.982	ug/l	99
96) 1,2,3-Trichlorobenzene	13.938	180	37041	16.394	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101425\
Data File : VX048156.D
Acq On : 14 Oct 2025 11:20
Operator : JC/MD
Sample : VX1014WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 02:40:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

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

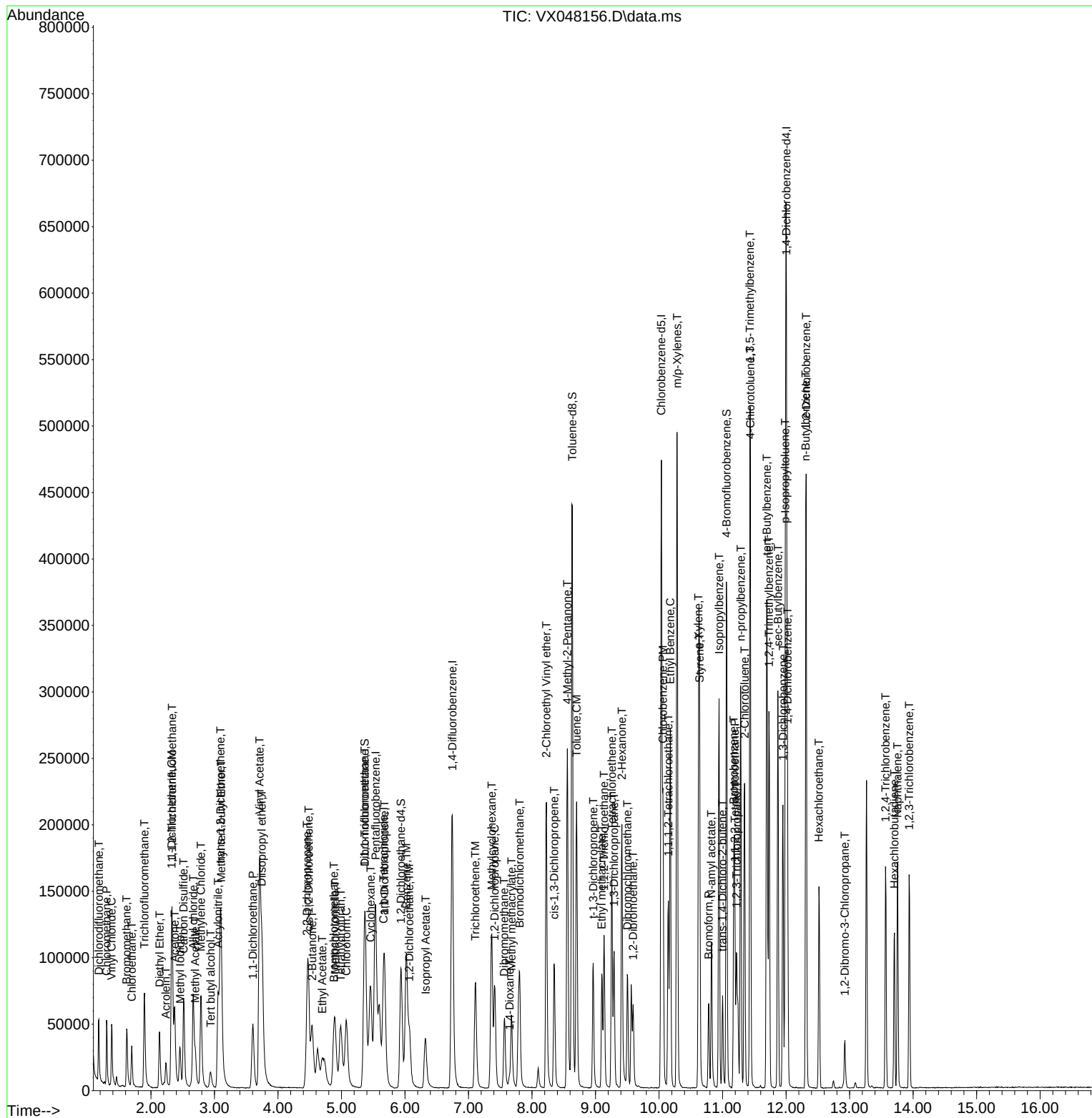
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Data File : VX048156.D
Acq On : 14 Oct 2025 11:20
Operator : JC/MD
Sample : VX1014WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

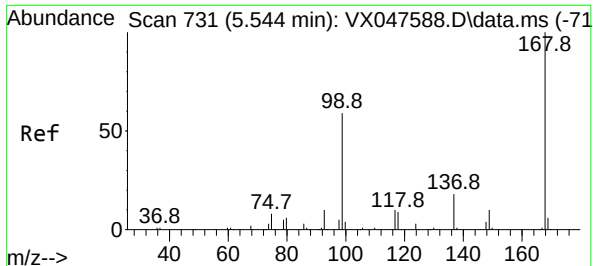
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01

Manual Integrations
APPROVED

Reviewed By : John Carlone 10/15/2025
Supervised By : Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 02:40:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration





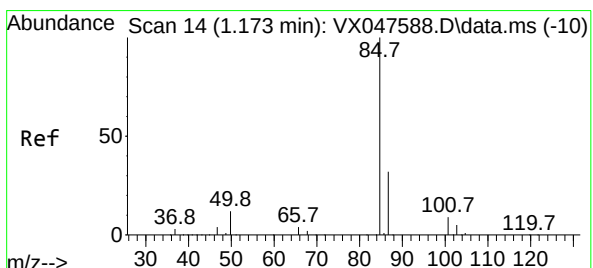
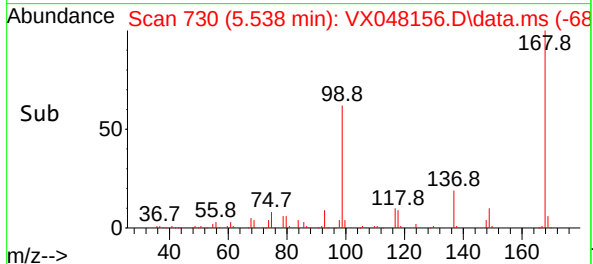
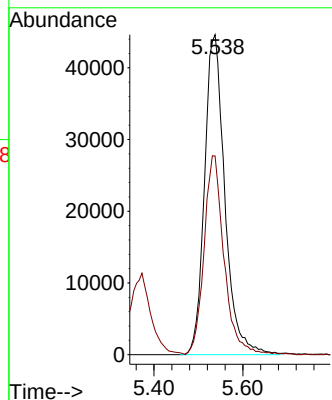
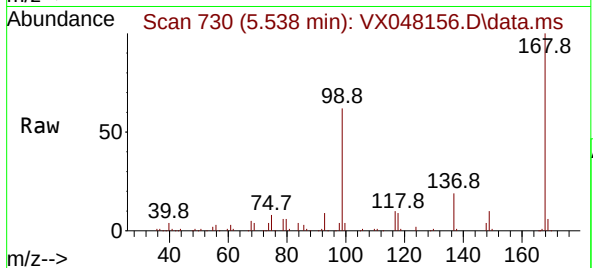
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Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01

Tgt Ion:168 Resp: 142018
Ion Ratio Lower Upper
168 100
99 61.7 48.8 73.2

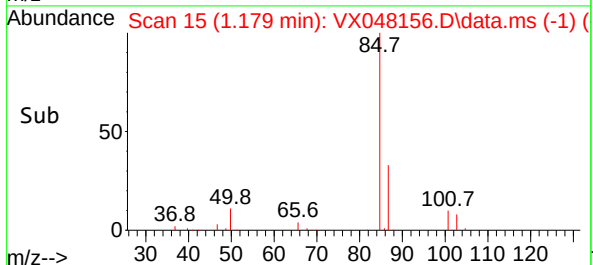
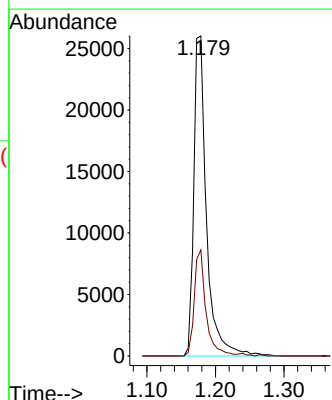
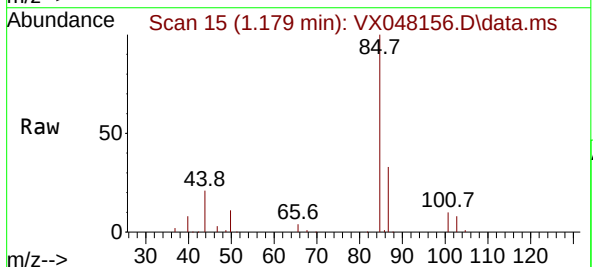
Manual Integrations
APPROVED

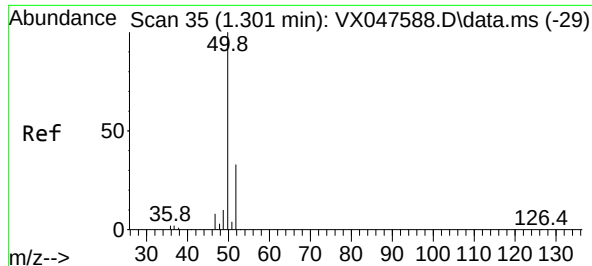
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#2
Dichlorodifluoromethane
Concen: 22.861 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

Tgt Ion: 85 Resp: 33620
Ion Ratio Lower Upper
85 100
87 33.2 15.8 47.3





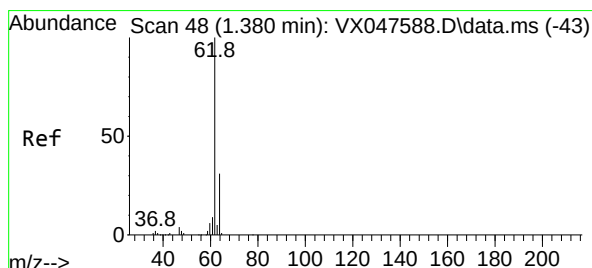
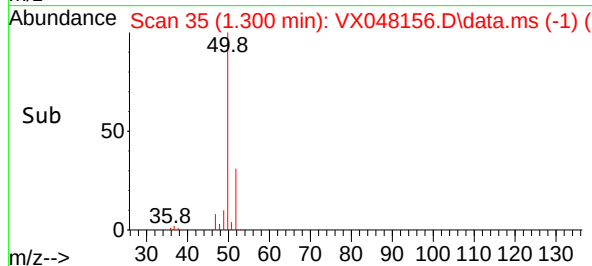
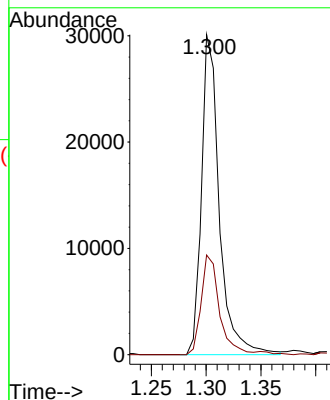
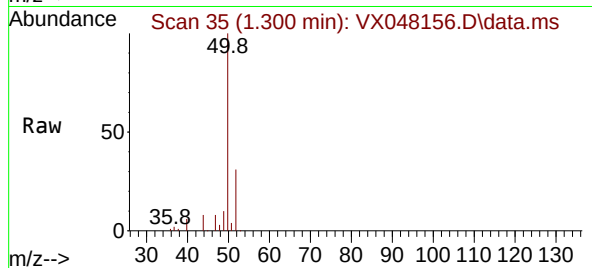
#3
Chloromethane
Concen: 17.628 ug/l
RT: 1.300 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01

Tgt Ion: 50 Resp: 34072
Ion Ratio Lower Upper
50 100
52 31.2 26.1 39.1

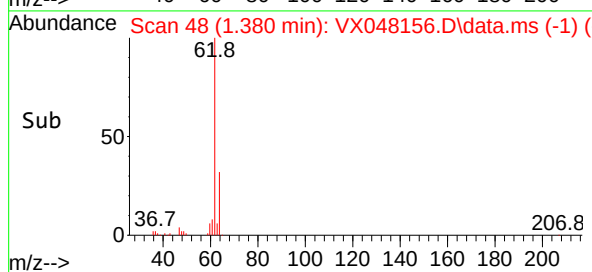
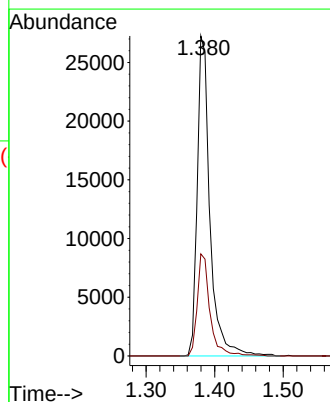
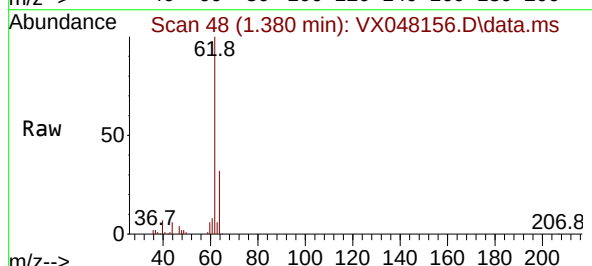
Manual Integrations
APPROVED

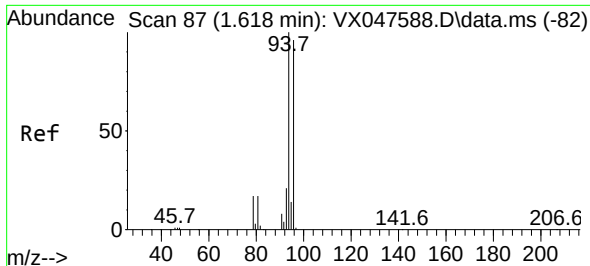
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#4
Vinyl Chloride
Concen: 18.533 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

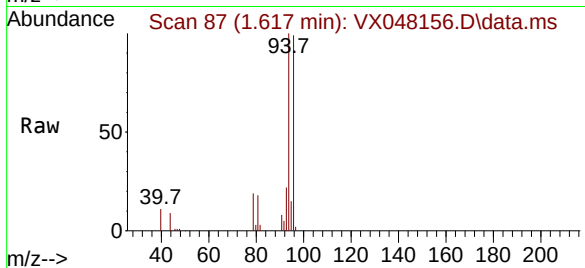
Tgt Ion: 62 Resp: 35065
Ion Ratio Lower Upper
62 100
64 31.9 24.9 37.3





#5
Bromomethane
Concen: 19.313 ug/l
RT: 1.617 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

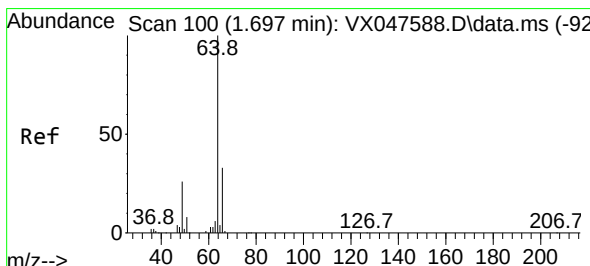
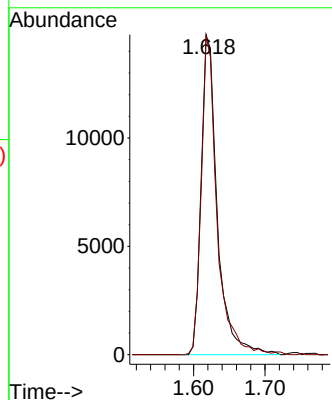
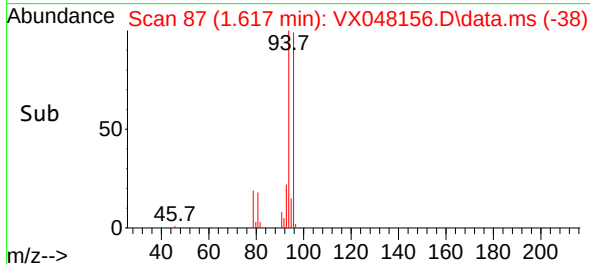
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01



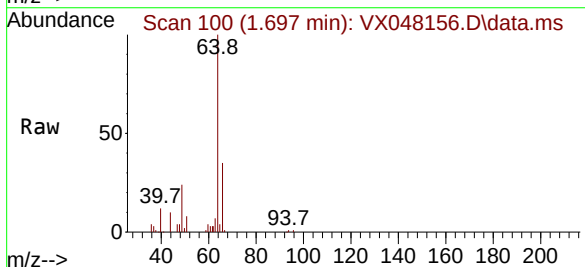
Tgt Ion: 94 Resp: 23170
Ion Ratio Lower Upper
94 100
96 101.0 76.6 115.0

Manual Integrations
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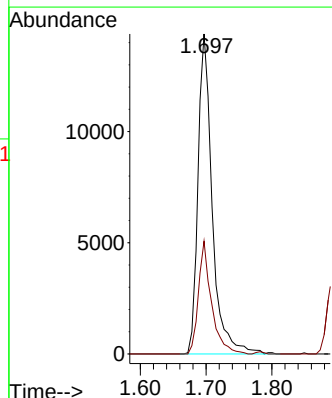
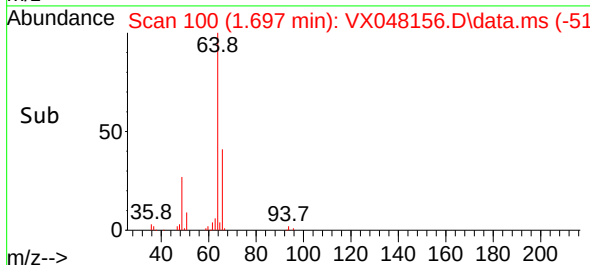
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

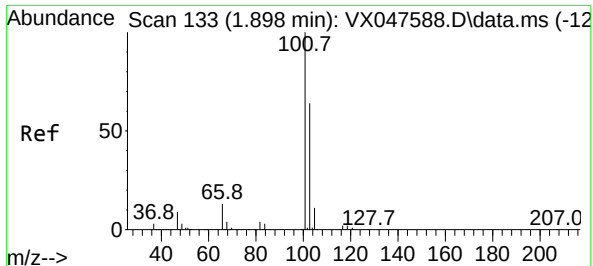


#6
Chloroethane
Concen: 17.096 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20



Tgt Ion: 64 Resp: 21619
Ion Ratio Lower Upper
64 100
66 35.2 26.1 39.1





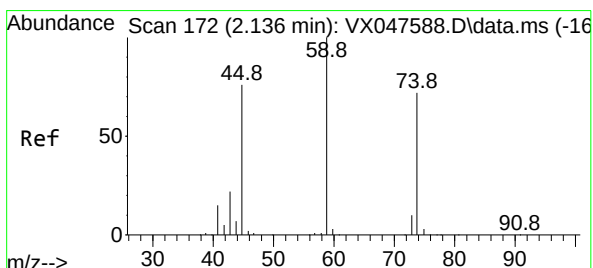
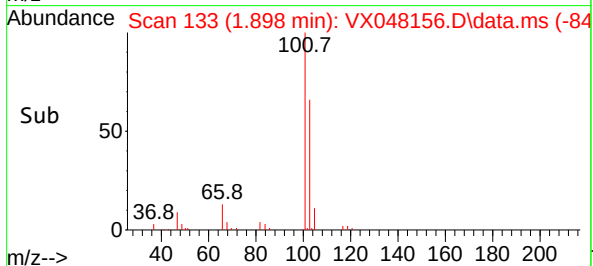
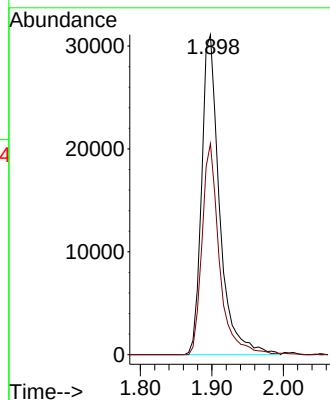
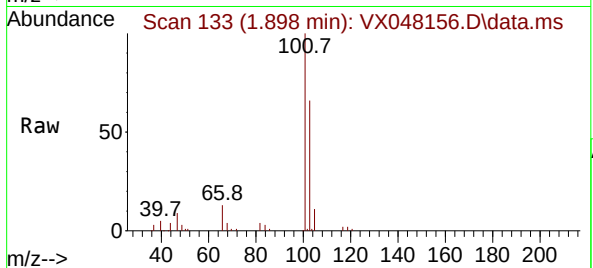
#7
Trichlorofluoromethane
Concen: 19.360 ug/l
RT: 1.898 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01

Tgt Ion:101 Resp: 5438
Ion Ratio Lower Upper
101 100
103 65.9 51.4 77.2

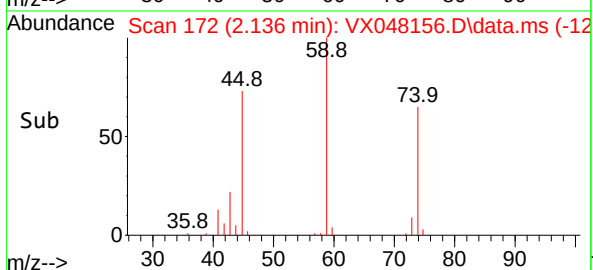
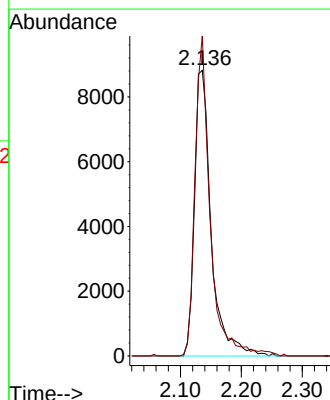
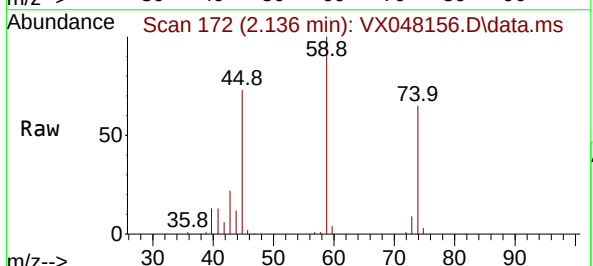
Manual Integrations
APPROVED

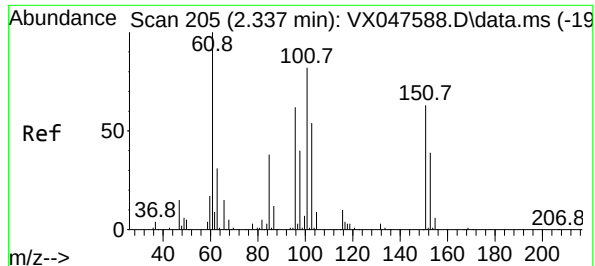
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#8
Diethyl Ether
Concen: 14.630 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

Tgt Ion: 74 Resp: 16812
Ion Ratio Lower Upper
74 100
45 101.6 52.3 156.8





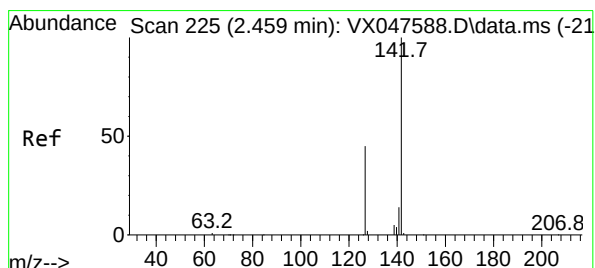
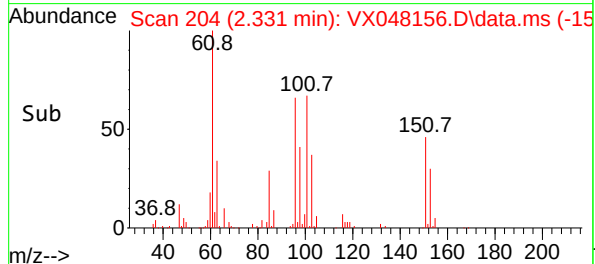
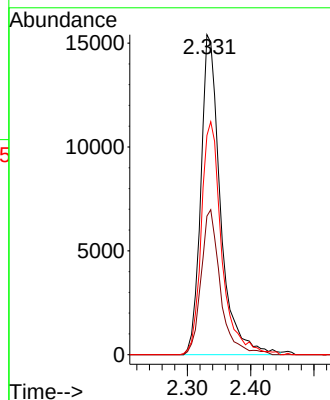
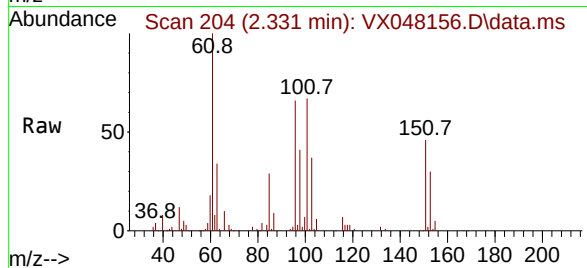
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.259 ug/l
RT: 2.331 min Scan# 204
Delta R.T. -0.006 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01

Tgt Ion:101 Resp: 33278
Ion Ratio Lower Upper
101 100
85 44.6 35.5 53.3
151 75.9 59.4 89.0

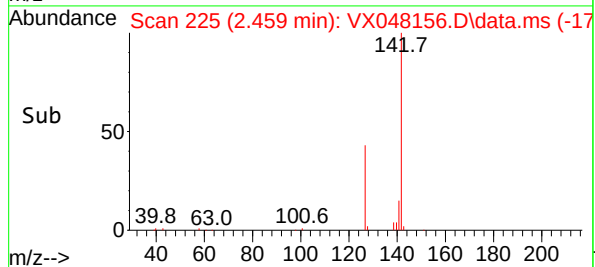
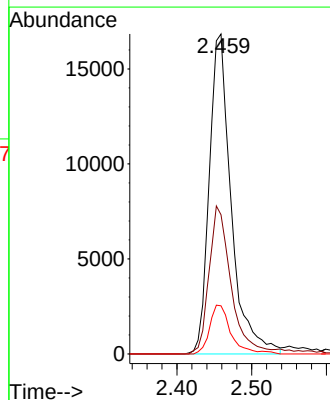
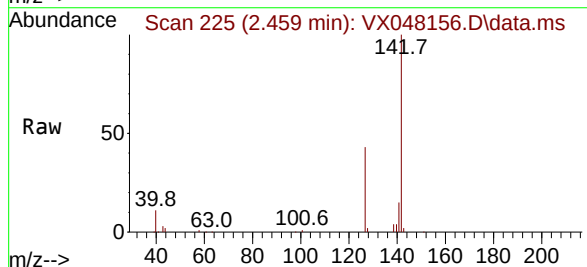
Manual Integrations
APPROVED

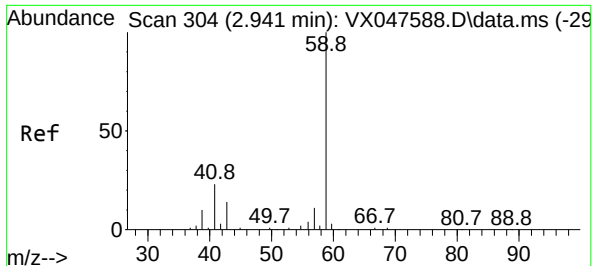
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#10
Methyl Iodide
Concen: 13.405 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

Tgt Ion:142 Resp: 34342
Ion Ratio Lower Upper
142 100
127 48.1 37.2 55.8
141 14.9 11.4 17.0





#11

Tert butyl alcohol

Concen: 61.199 ug/l

RT: 2.940 min Scan# 304

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 59 Resp: 15408

Ion Ratio Lower Upper

59 100

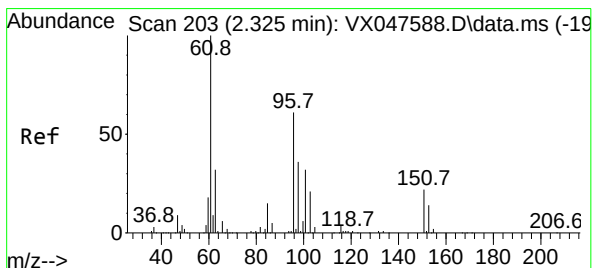
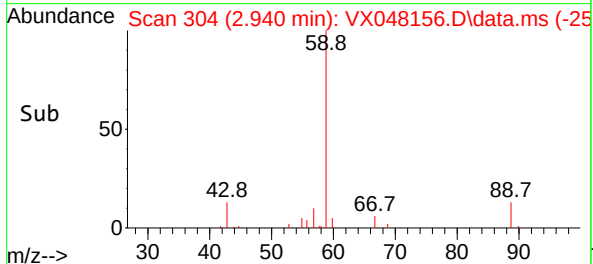
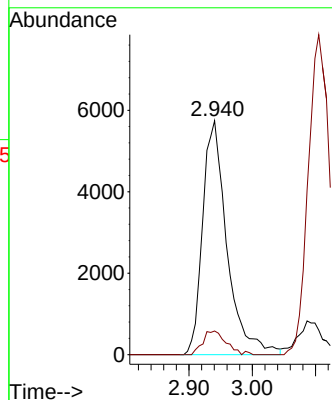
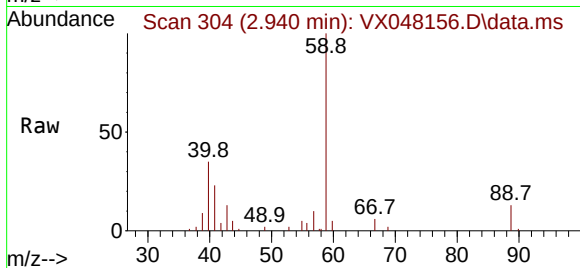
57 9.4 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#12

1,1-Dichloroethene

Concen: 18.933 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

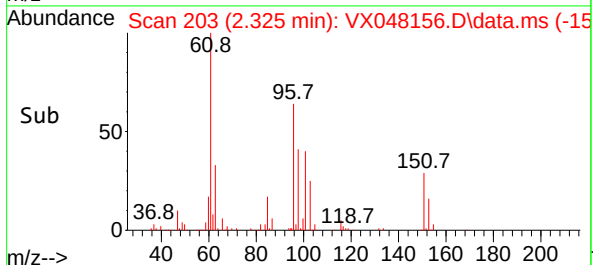
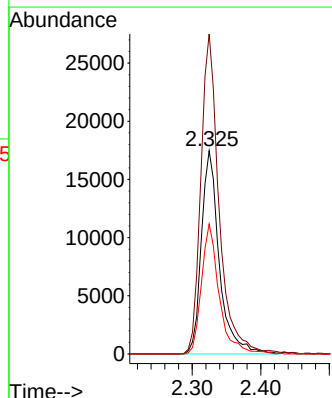
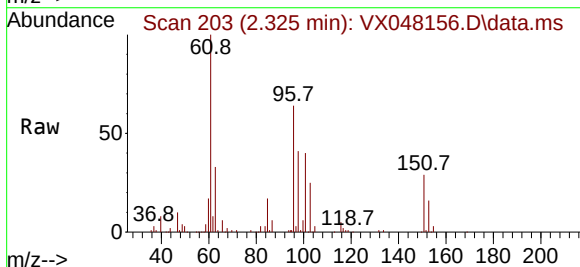
Tgt Ion: 96 Resp: 31946

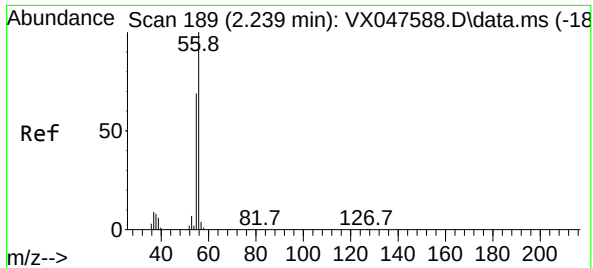
Ion Ratio Lower Upper

96 100

61 157.4 131.0 196.6

98 64.0 47.7 71.5





#13

Acrolein

Concen: 66.890 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.006 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 56 Resp: 15519

Ion Ratio Lower Upper

56 100

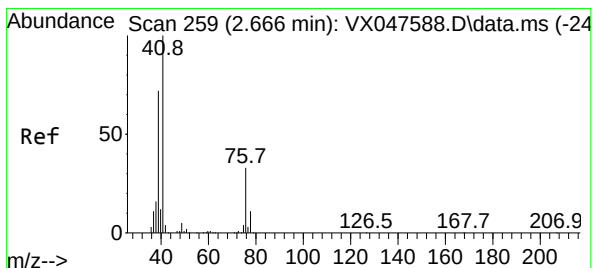
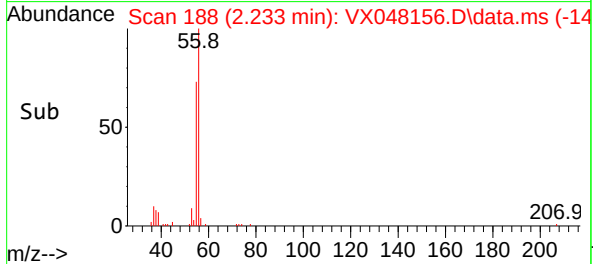
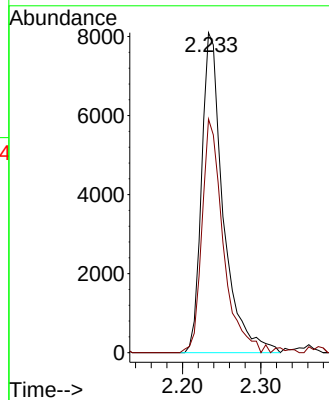
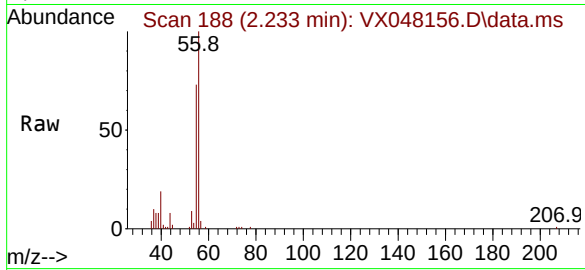
55 71.8 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#14

Allyl chloride

Concen: 15.350 ug/l

RT: 2.666 min Scan# 259

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

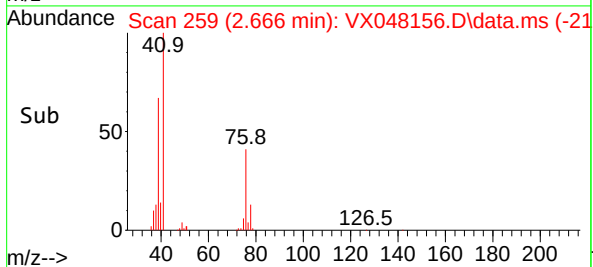
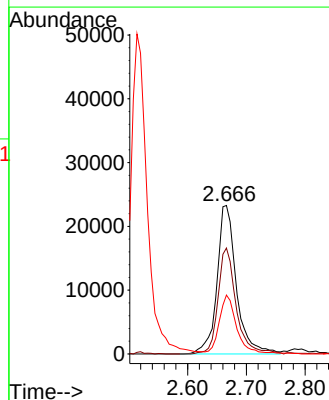
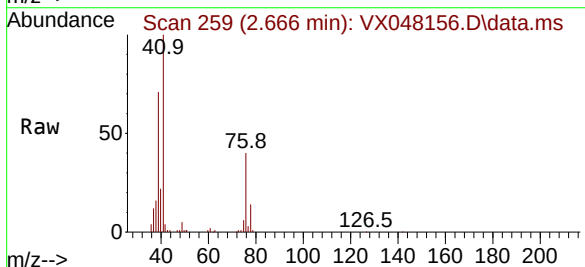
Tgt Ion: 41 Resp: 53446

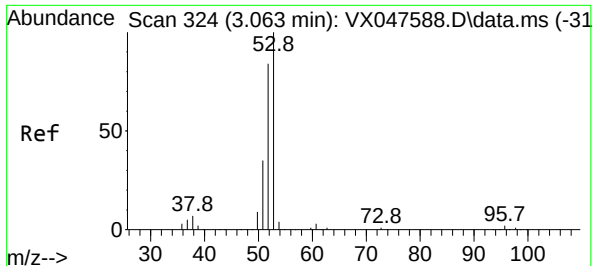
Ion Ratio Lower Upper

41 100

39 66.6 54.7 82.1

76 35.9 25.7 38.5





#15

Acrylonitrile

Concen: 75.462 ug/l

RT: 3.056 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

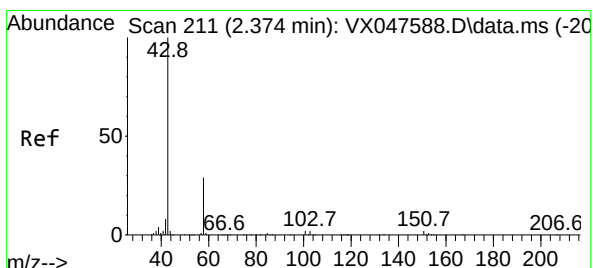
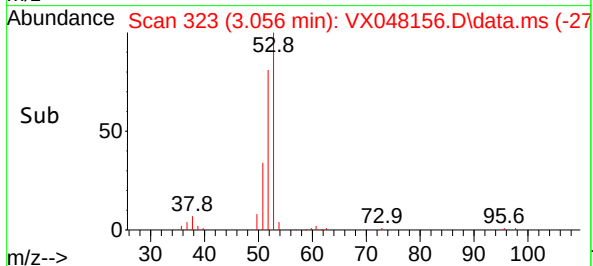
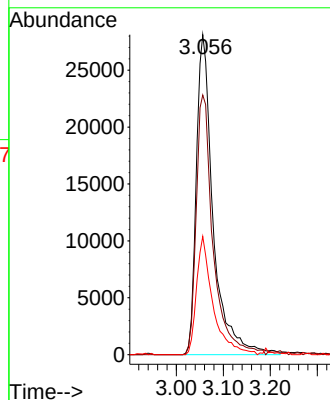
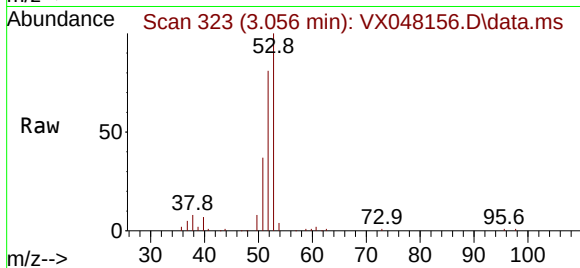
ClientSampleId :

VX1014WBS01

Tgt Ion:	53	Resp:	7037
Ion	Ratio	Lower	Upper
53	100		
52	81.0	66.4	99.6
51	36.0	29.5	44.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#16

Acetone

Concen: 62.282 ug/l

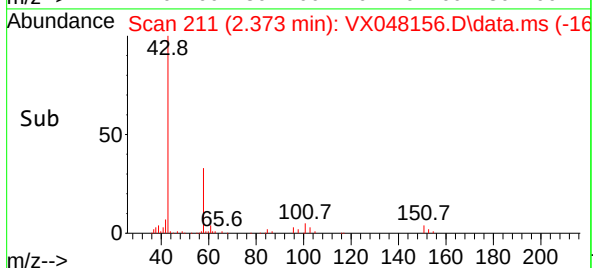
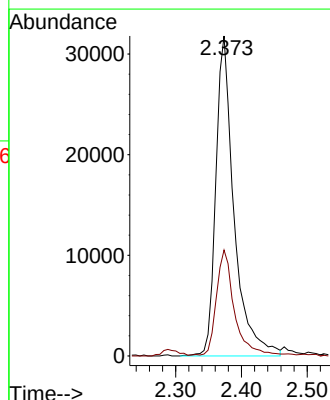
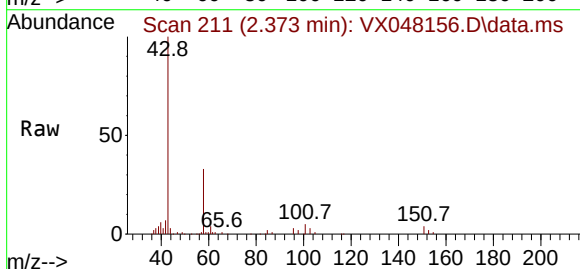
RT: 2.373 min Scan# 211

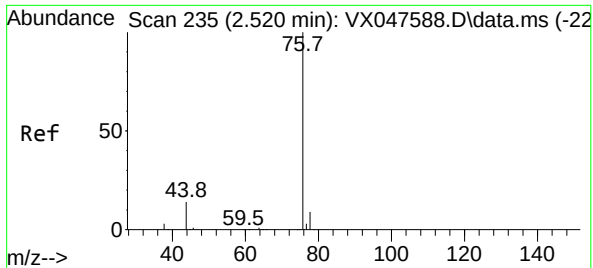
Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

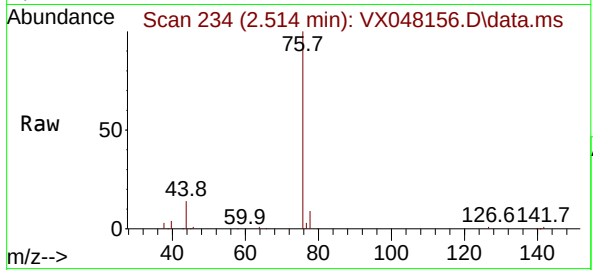
Tgt Ion:	43	Resp:	61217
Ion	Ratio	Lower	Upper
43	100		
58	32.9	23.4	35.0





#17
Carbon Disulfide
Concen: 20.853 ug/l
RT: 2.514 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

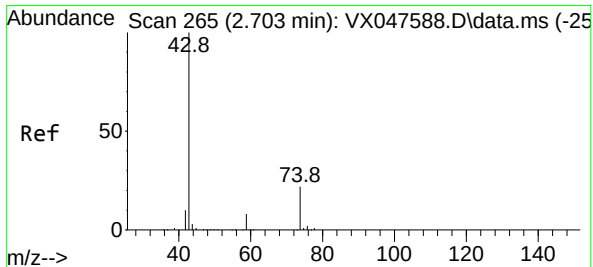
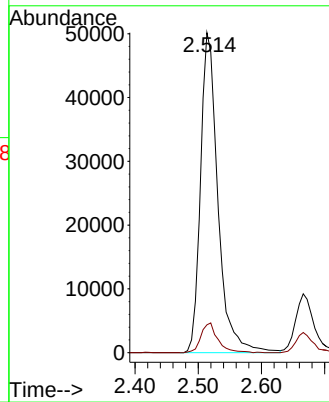
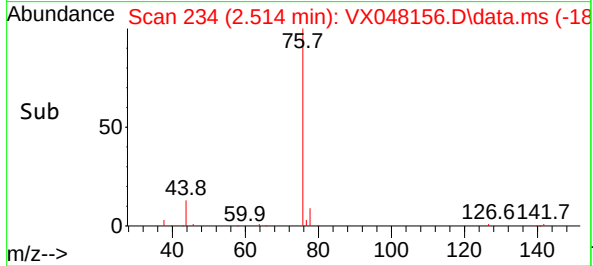
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01



Tgt Ion: 76 Resp: 96320
Ion Ratio Lower Upper
76 100
78 8.7 6.8 10.2

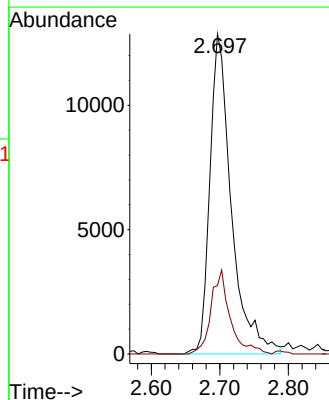
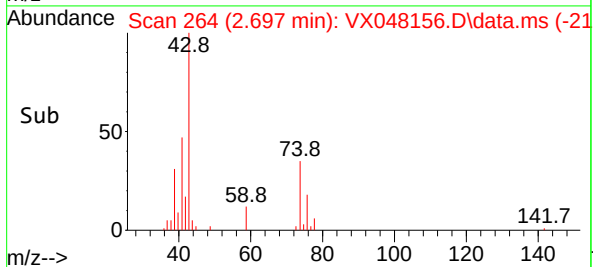
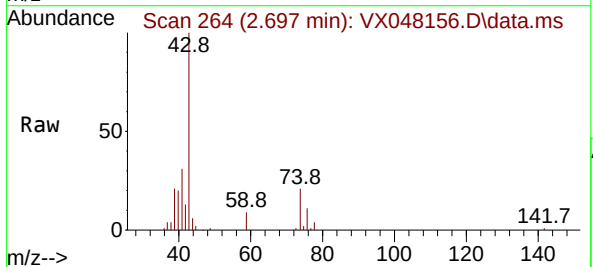
Manual Integrations
APPROVED

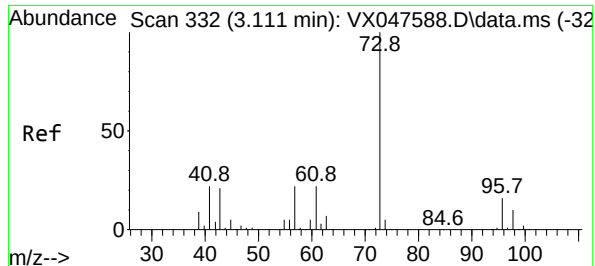
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#18
Methyl Acetate
Concen: 12.851 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

Tgt Ion: 43 Resp: 28110
Ion Ratio Lower Upper
43 100
74 23.4 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 15.207 ug/l

RT: 3.105 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 73 Resp: 9366

Ion Ratio Lower Upper

73 100

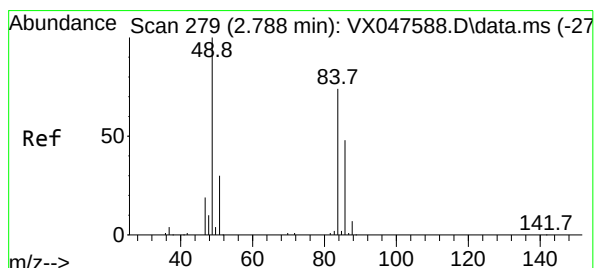
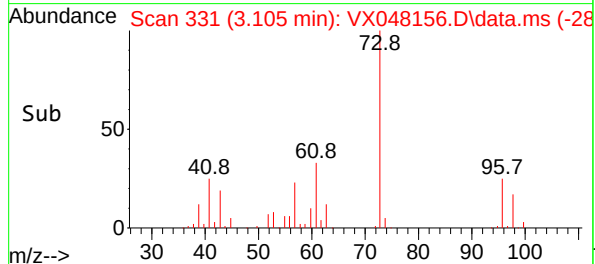
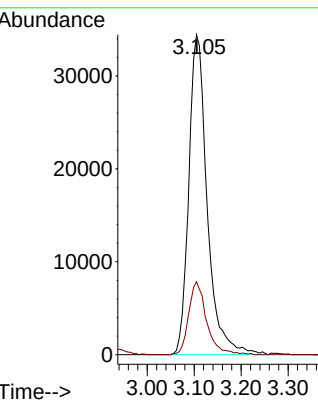
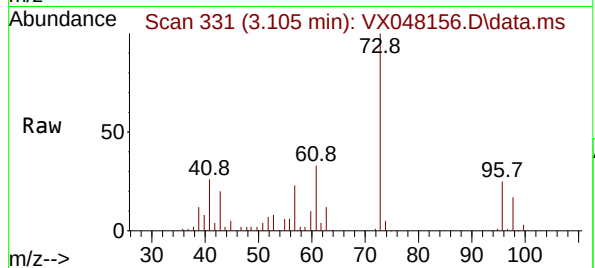
57 22.8 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#20

Methylene Chloride

Concen: 17.136 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Tgt Ion: 84 Resp: 35652

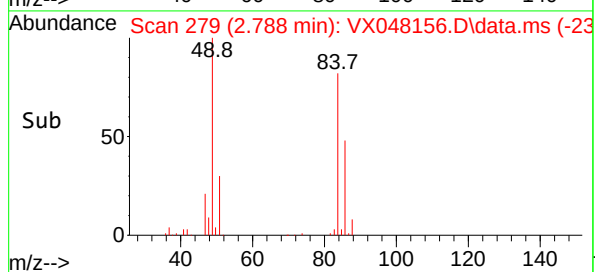
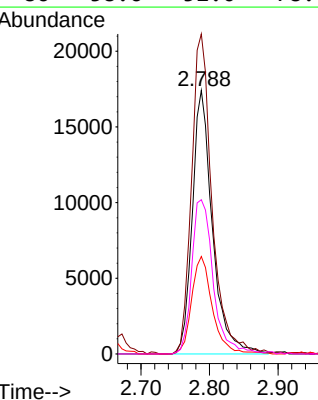
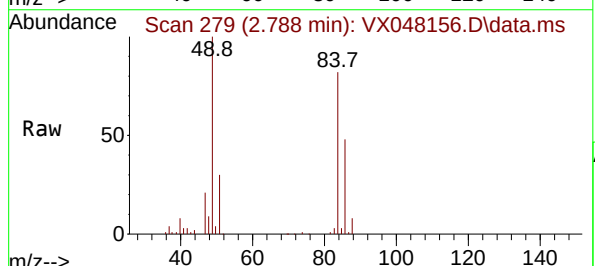
Ion Ratio Lower Upper

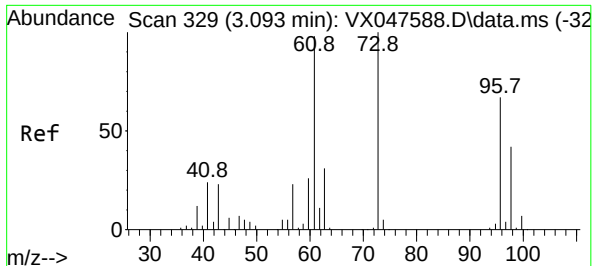
84 100

49 121.5 108.6 162.8

51 37.0 32.6 48.8

86 58.6 52.0 78.0





#21

trans-1,2-Dichloroethene

Concen: 18.489 ug/l

RT: 3.093 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 96 Resp: 3358

Ion Ratio Lower Upper

96 100

61 130.5 116.2 174.2

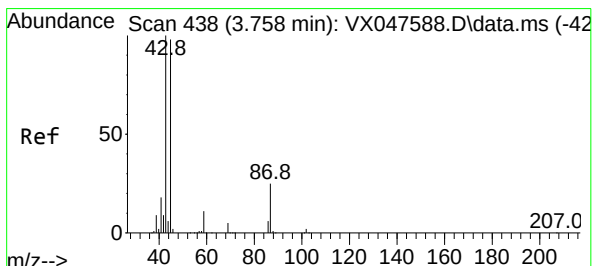
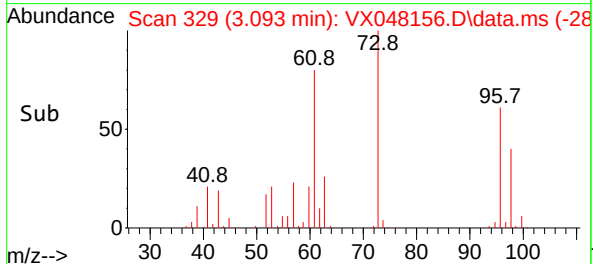
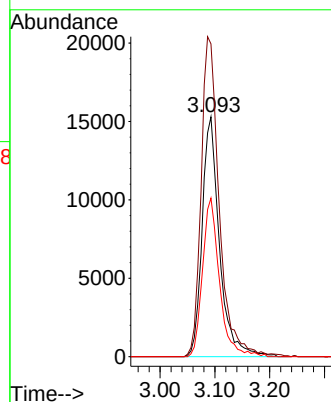
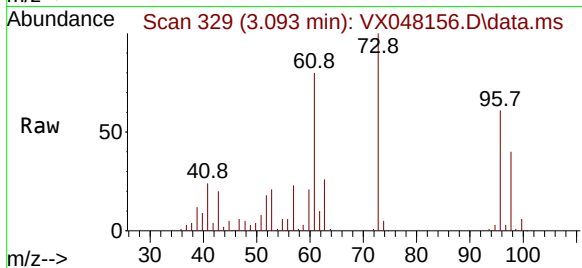
98 67.6 49.3 73.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#22

Diisopropyl ether

Concen: 16.264 ug/l

RT: 3.745 min Scan# 436

Delta R.T. -0.012 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Tgt Ion: 45 Resp: 109745

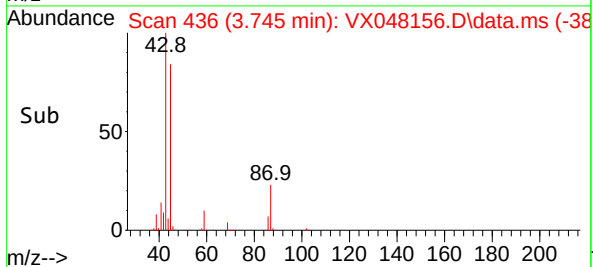
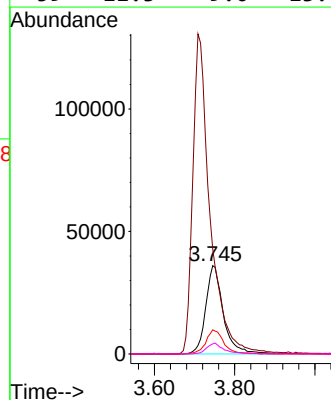
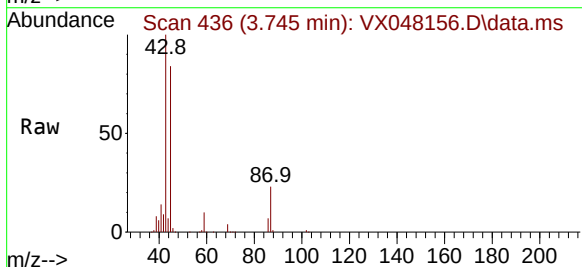
Ion Ratio Lower Upper

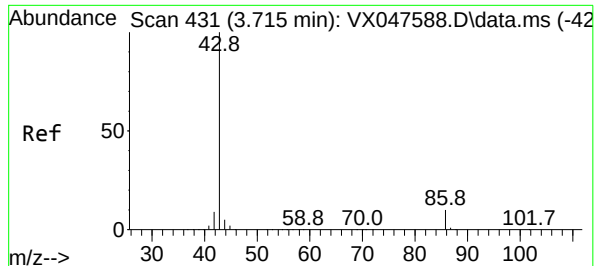
45 100

43 117.9 81.0 121.4

87 27.3 20.3 30.5

59 11.3 9.0 13.4





#23

Vinyl Acetate

Concen: 72.522 ug/l

RT: 3.709 min Scan# 41

Delta R.T. -0.006 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 43 Resp: 39166

Ion Ratio Lower Upper

43

100

86

10.1

7.8

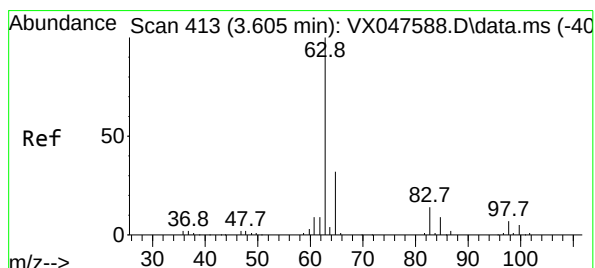
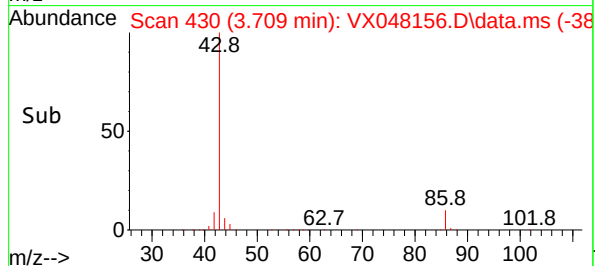
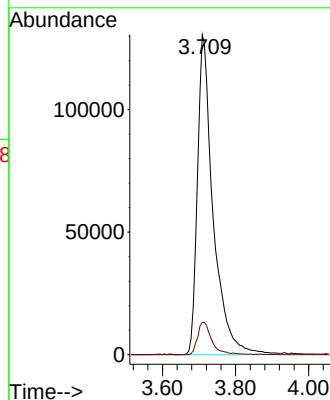
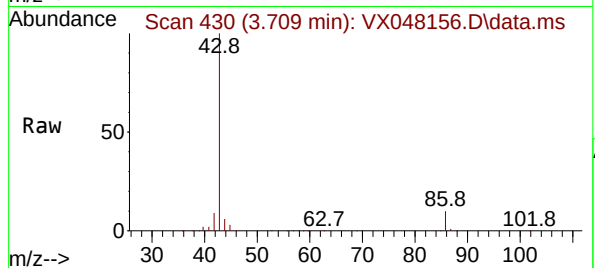
11.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#24

1,1-Dichloroethane

Concen: 16.956 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Tgt Ion: 63 Resp: 60815

Ion Ratio Lower Upper

63

100

98

7.3

3.8

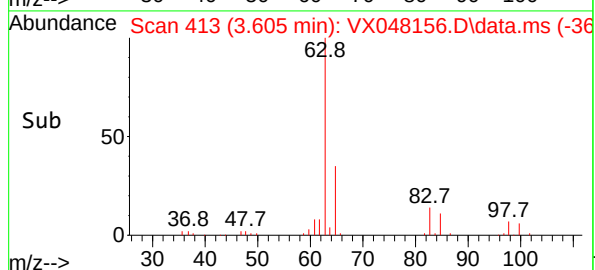
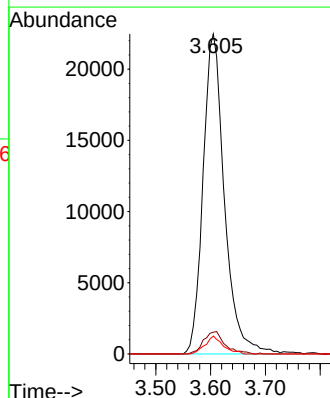
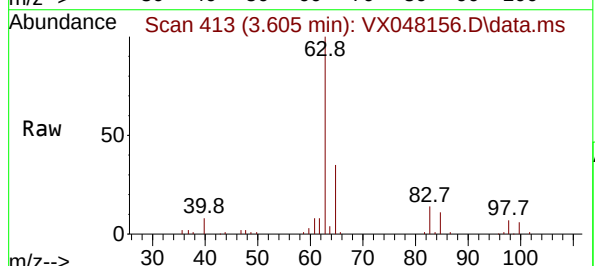
11.2

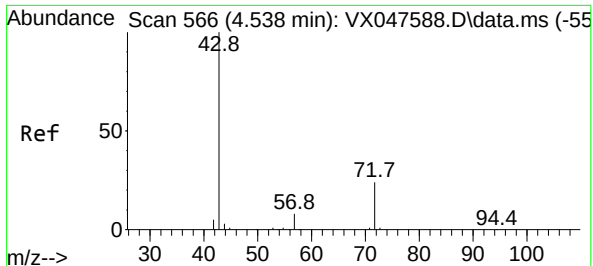
100

5.6

2.3

6.9





#25

2-Butanone

Concen: 67.415 ug/l

RT: 4.538 min Scan# 50

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 43 Resp: 82654

Ion Ratio Lower Upper

43 100

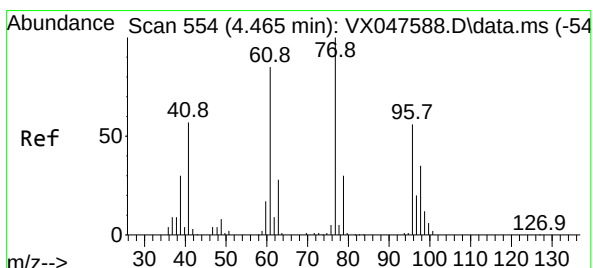
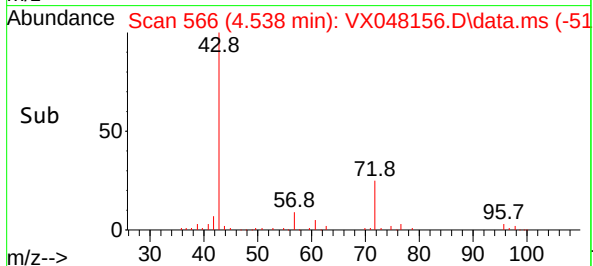
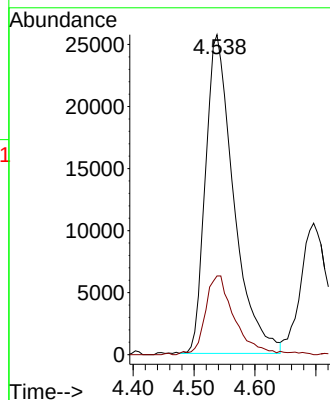
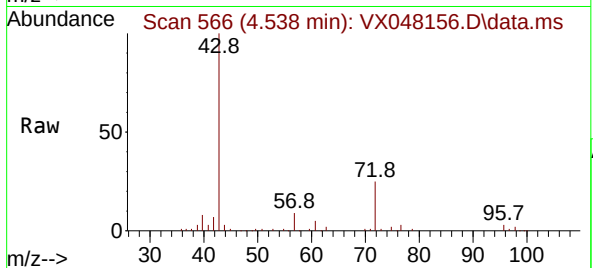
72 24.2 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#26

2,2-Dichloropropane

Concen: 17.318 ug/l

RT: 4.458 min Scan# 553

Delta R.T. -0.006 min

Lab File: VX048156.D

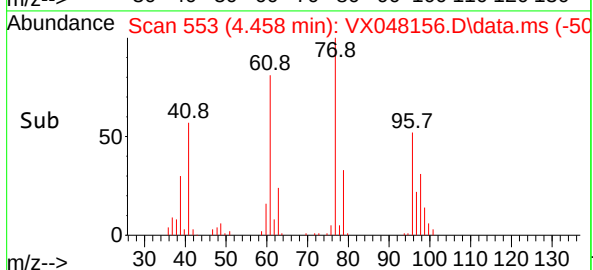
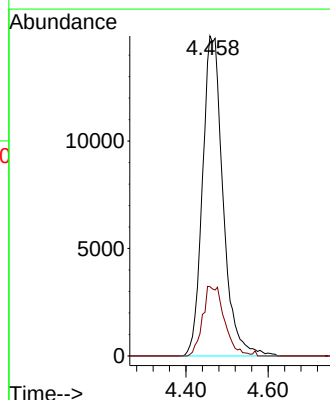
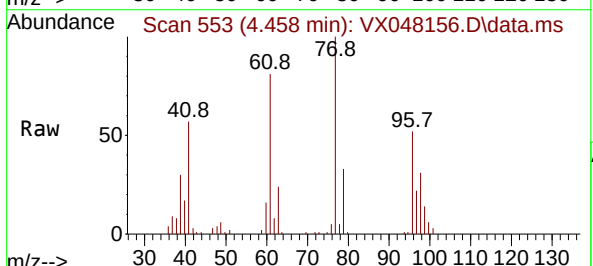
Acq: 14 Oct 2025 11:20

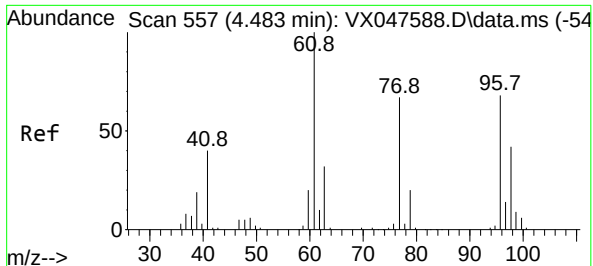
Tgt Ion: 77 Resp: 51631

Ion Ratio Lower Upper

77 100

97 23.0 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 17.250 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 96 Resp: 3837

Ion Ratio Lower Upper

96 100

61 147.7 0.0 303.2

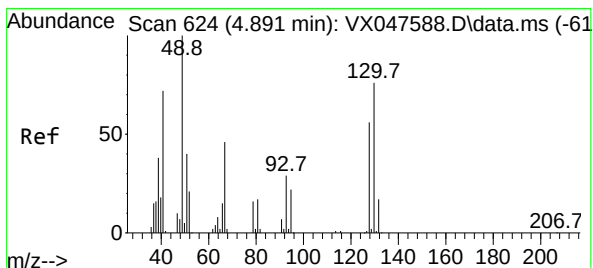
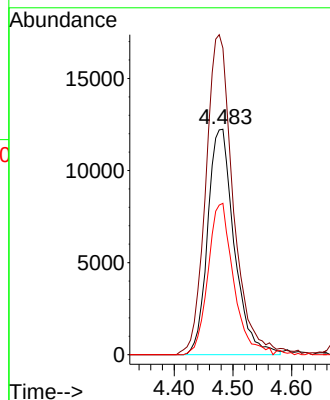
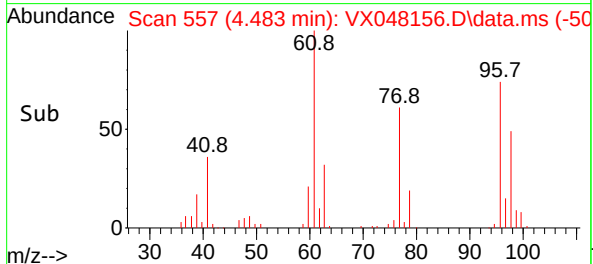
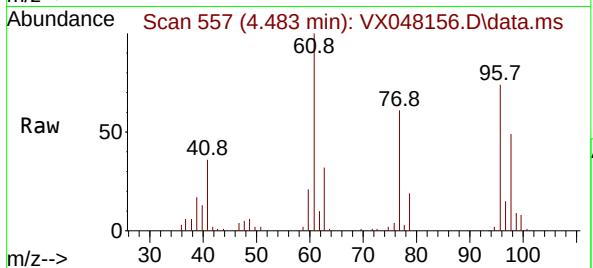
98 64.7 0.0 127.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#28

Bromochloromethane

Concen: 17.651 ug/l

RT: 4.879 min Scan# 622

Delta R.T. -0.012 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

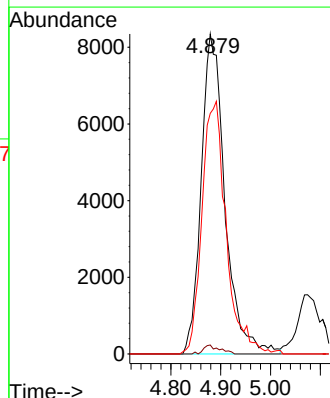
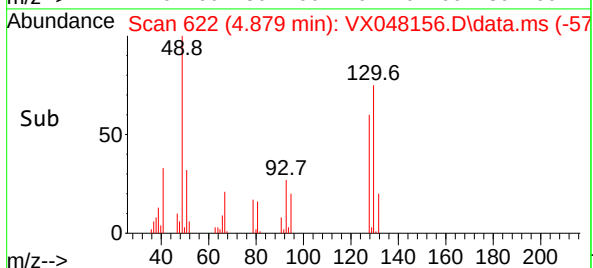
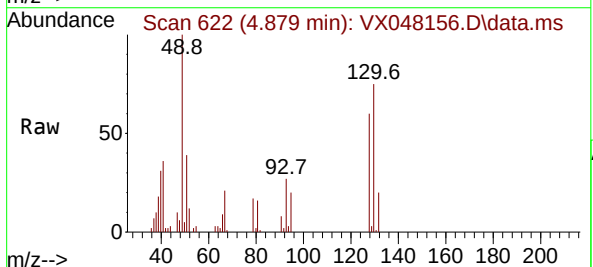
Tgt Ion: 49 Resp: 27637

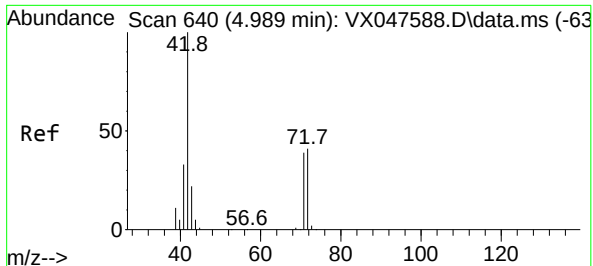
Ion Ratio Lower Upper

49 100

129 1.9 0.0 3.2

130 80.3 57.8 86.8





#29

Tetrahydrofuran

Concen: 67.795 ug/l

RT: 4.989 min Scan# 640

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

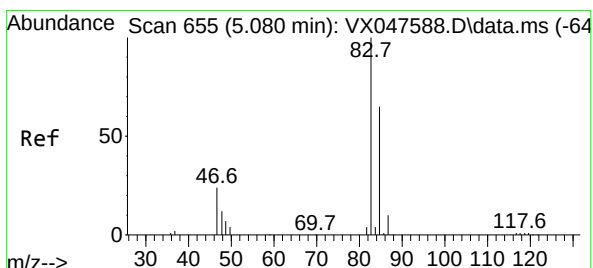
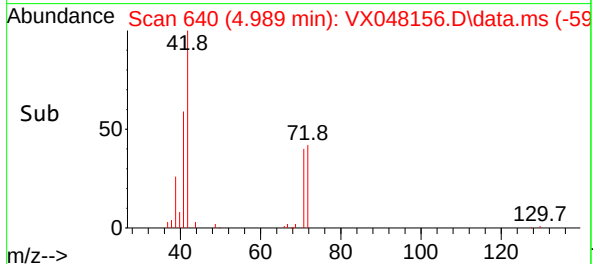
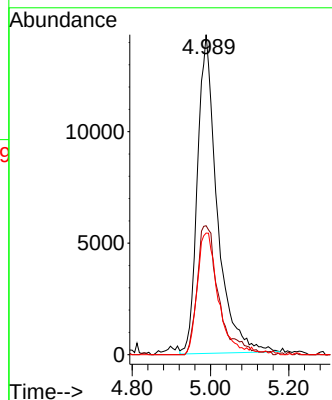
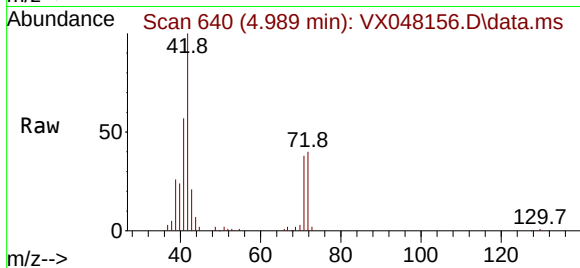
Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion:	42	Resp:	5000
Ion	Ratio	Lower	Upper
42	100		
72	44.4	34.2	51.2
71	40.0	31.9	47.9

Manual Integrations
APPROVEDReviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

#30

Chloroform

Concen: 17.645 ug/l

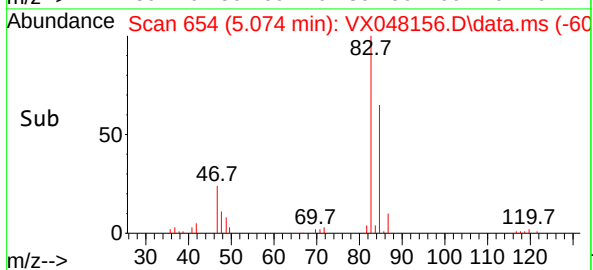
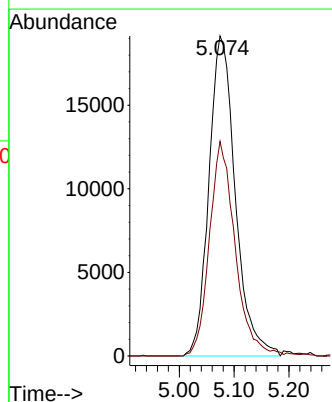
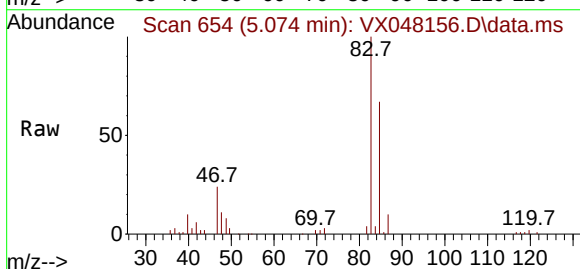
RT: 5.074 min Scan# 654

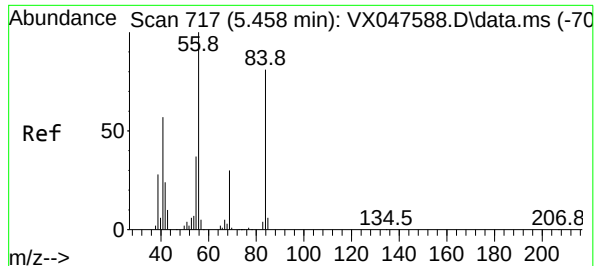
Delta R.T. -0.006 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Tgt Ion:	83	Resp:	63951
Ion	Ratio	Lower	Upper
83	100		
85	67.1	51.8	77.6





#31

Cyclohexane

Concen: 18.752 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 56 Resp: 5601

Ion Ratio Lower Upper

56 100

69 28.4 23.8 35.8

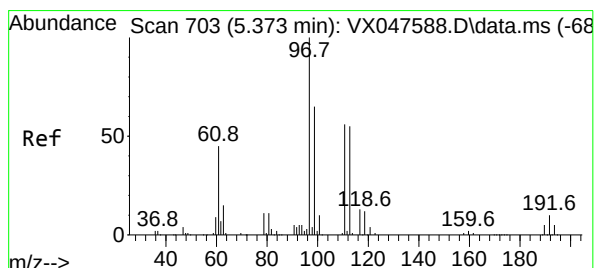
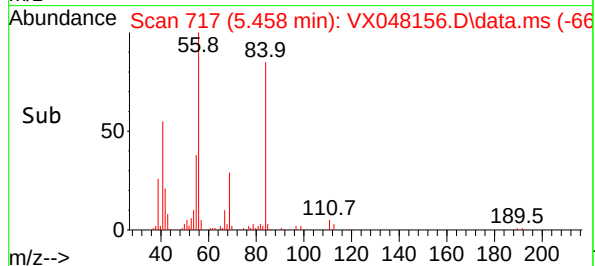
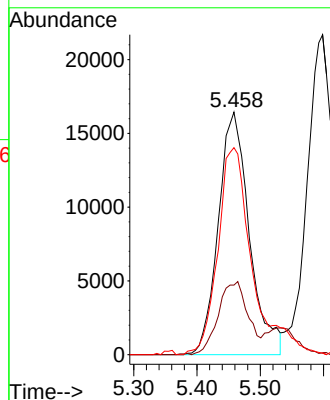
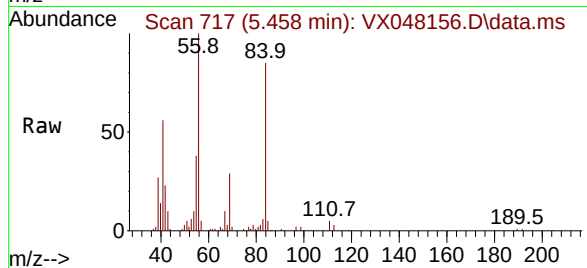
84 85.3 64.6 97.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#32

1,1,1-Trichloroethane

Concen: 18.596 ug/l

RT: 5.367 min Scan# 702

Delta R.T. -0.006 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

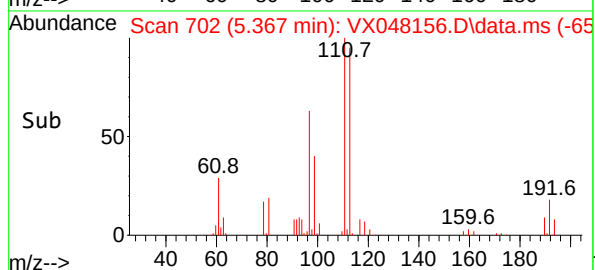
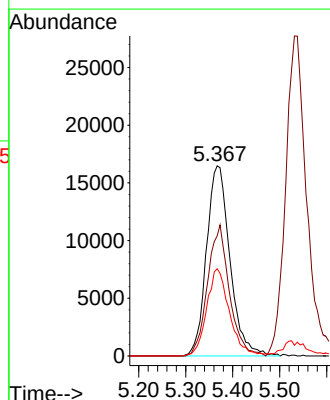
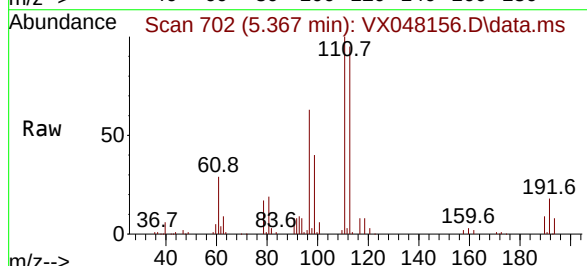
Tgt Ion: 97 Resp: 57168

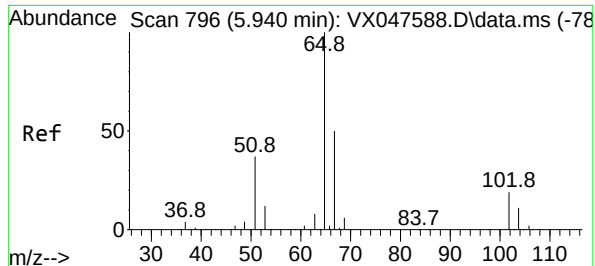
Ion Ratio Lower Upper

97 100

99 63.9 50.6 76.0

61 44.4 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 42.787 ug/l

RT: 5.934 min Scan# 796

Delta R.T. -0.006 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 65 Resp: 96724

Ion Ratio Lower Upper

65 100

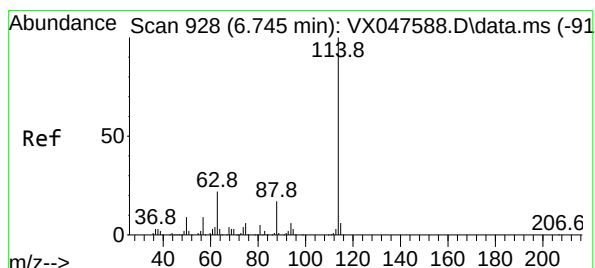
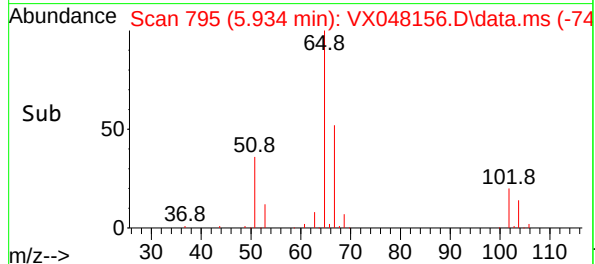
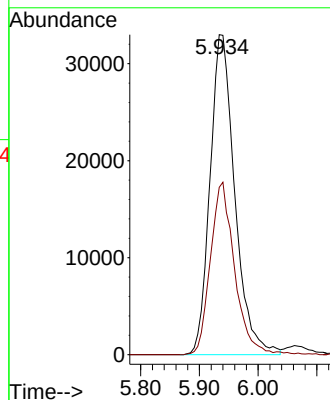
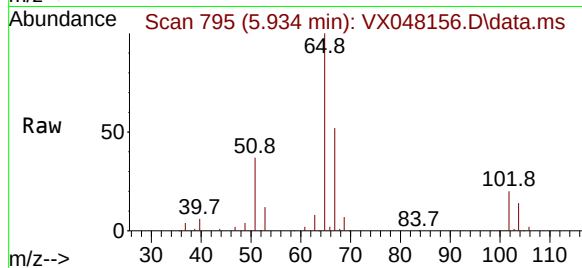
67 52.6 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

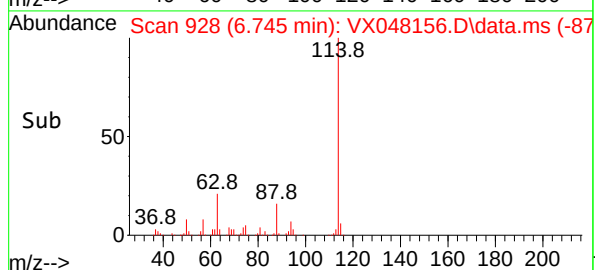
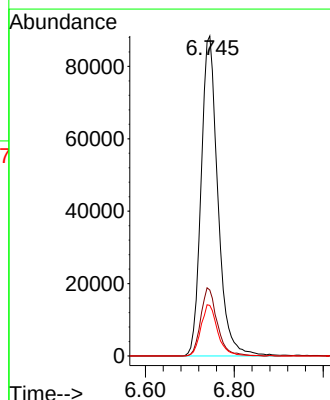
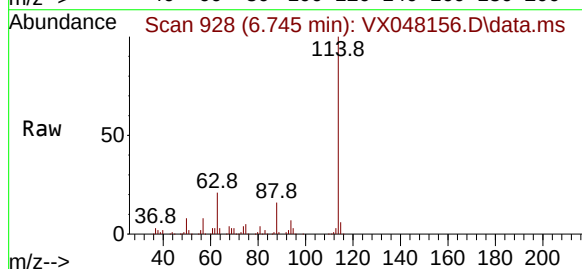
Tgt Ion:114 Resp: 232029

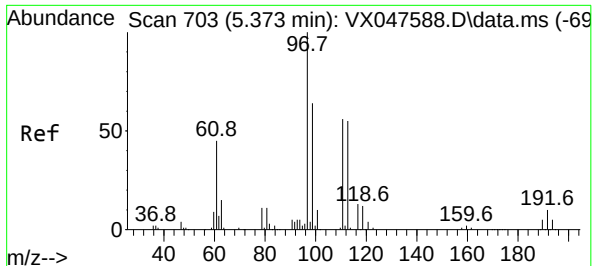
Ion Ratio Lower Upper

114 100

63 20.6 0.0 44.0

88 15.8 0.0 34.2





#35

Dibromofluoromethane

Concen: 52.524 ug/l

RT: 5.367 min Scan# 703

Delta R.T. -0.006 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

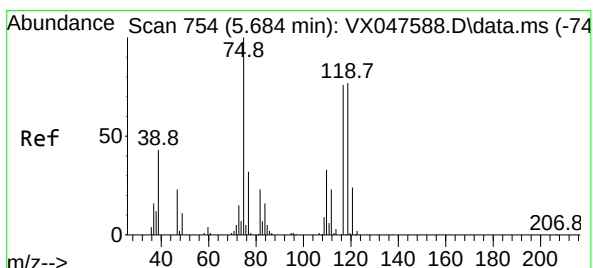
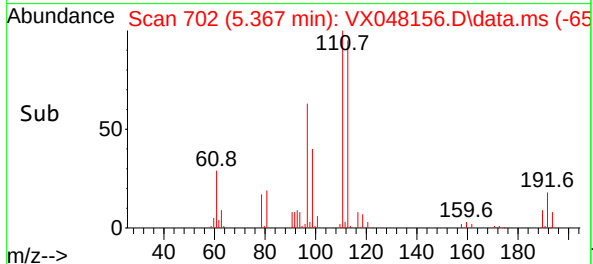
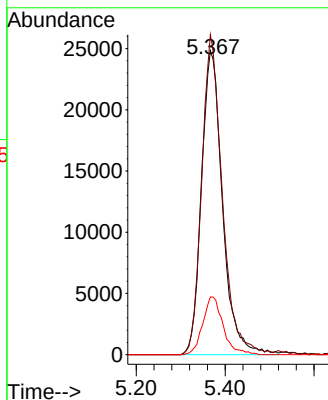
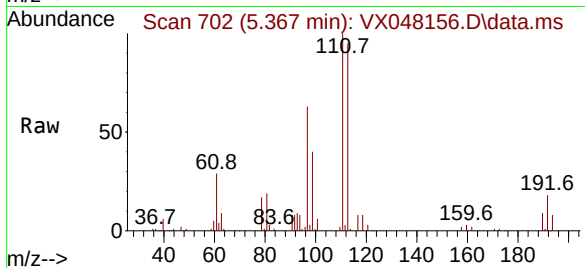
Tgt Ion:	113	Resp:	81734
Ion	Ratio	Lower	Upper
113	100		
111	102.7	80.9	121.3
192	18.5	14.2	21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#36

1,1-Dichloropropene

Concen: 19.129 ug/l

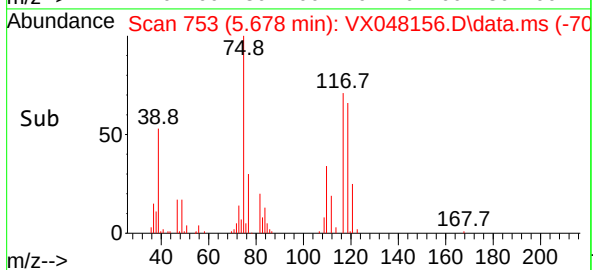
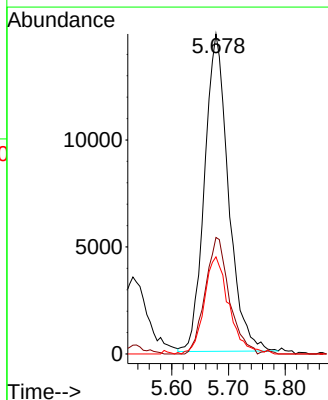
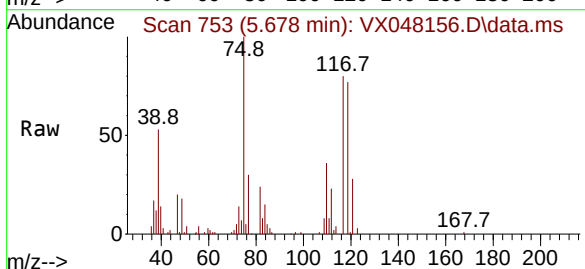
RT: 5.678 min Scan# 753

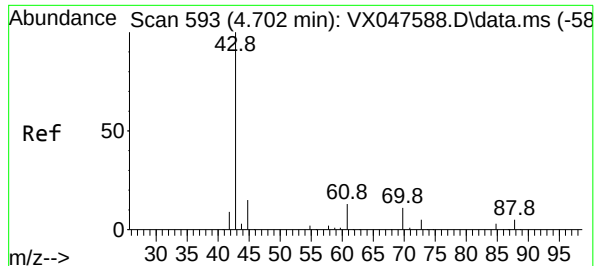
Delta R.T. -0.006 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Tgt Ion:	75	Resp:	43496
Ion	Ratio	Lower	Upper
75	100		
110	36.8	16.7	50.1
77	31.8	24.3	36.5





#37

Ethyl Acetate

Concen: 15.266 ug/l

RT: 4.696 min Scan# 593

Delta R.T. -0.006 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

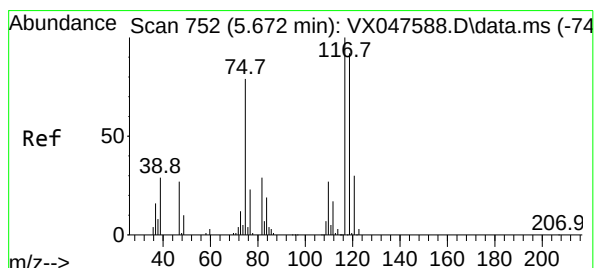
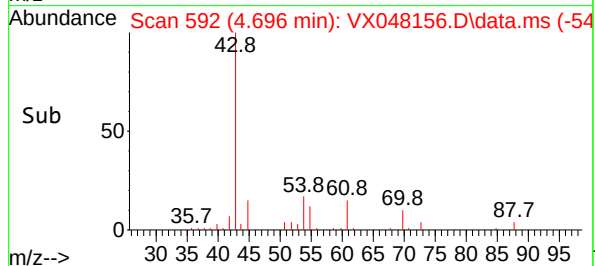
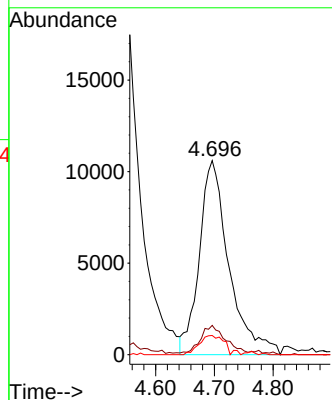
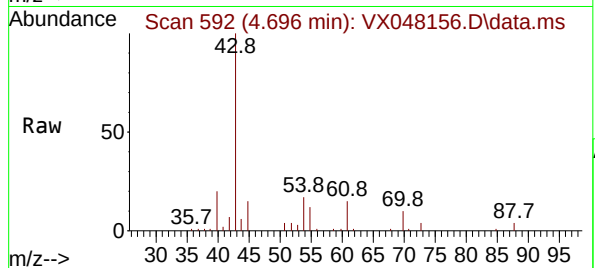
ClientSampleId :

VX1014WBS01

Tgt Ion:	43	Resp:	3716
Ion	Ratio	Lower	Upper
43	100		
61	11.3	9.8	14.8
70	8.5	7.9	11.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#38

Carbon Tetrachloride

Concen: 21.245 ug/l

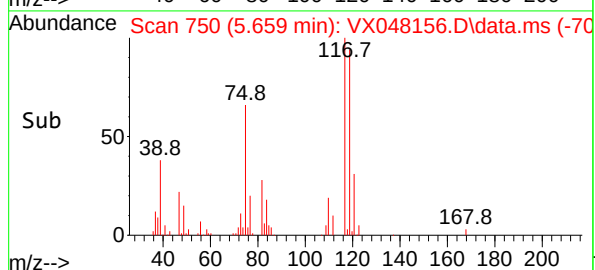
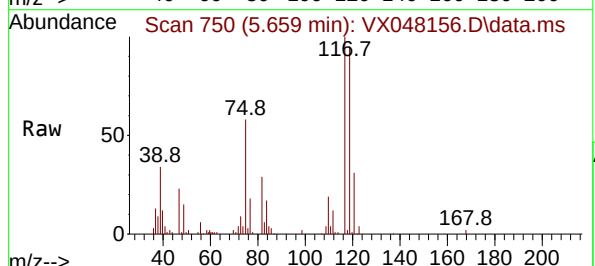
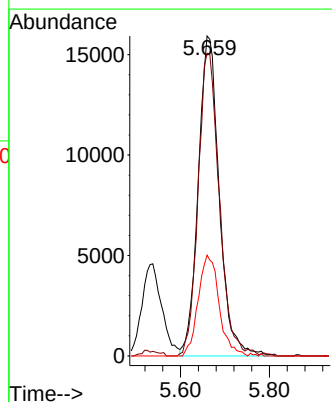
RT: 5.659 min Scan# 750

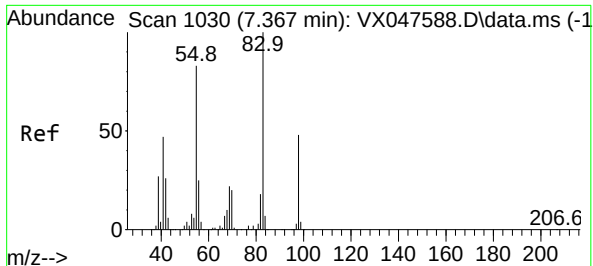
Delta R.T. -0.012 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Tgt Ion:	117	Resp:	52488
Ion	Ratio	Lower	Upper
117	100		
119	94.6	73.4	110.2
121	31.5	23.8	35.6





#39

Methylcyclohexane

Concen: 20.992 ug/l

RT: 7.366 min Scan# 1030

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

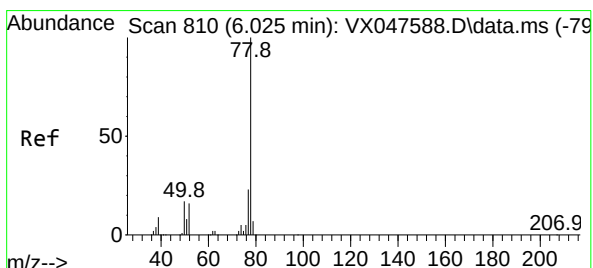
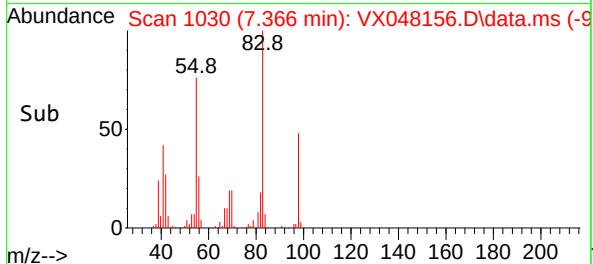
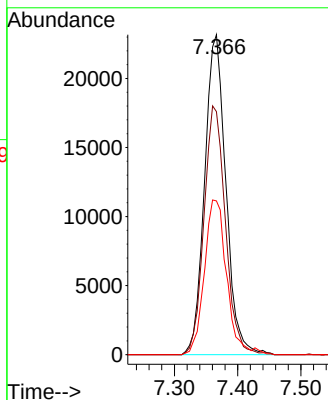
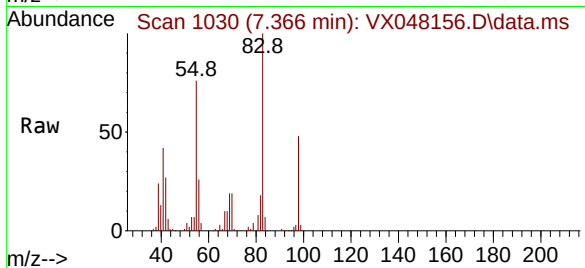
ClientSampleId :

VX1014WBS01

Tgt Ion:	83	Resp:	54184
Ion	Ratio	Lower	Upper
83	100		
55	75.9	66.4	99.6
98	48.0	38.1	57.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#40

Benzene

Concen: 19.591 ug/l

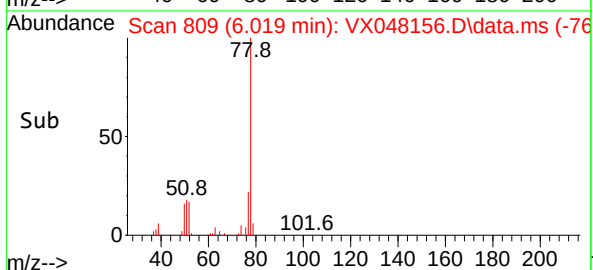
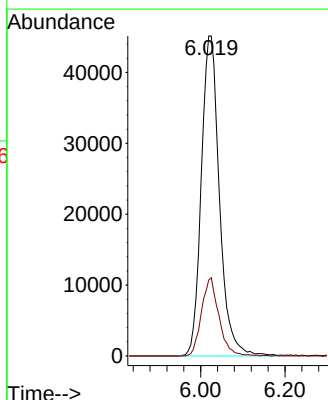
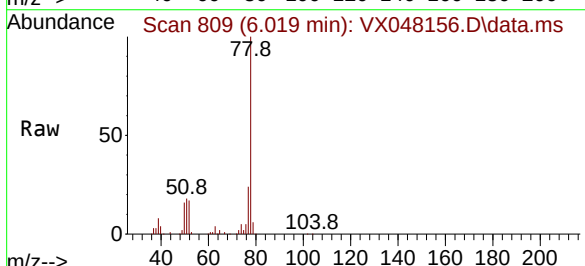
RT: 6.019 min Scan# 809

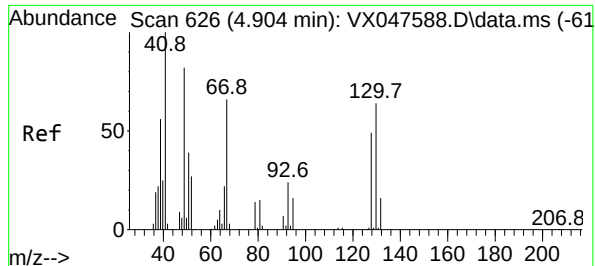
Delta R.T. -0.006 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Tgt Ion:	78	Resp:	135301
Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.8	28.2





#41

Methacrylonitrile

Concen: 15.545 ug/l

RT: 4.897 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 41 Resp: 1953

Ion Ratio Lower Upper

41 100

39 54.6 43.3 64.9

67 73.9 58.6 87.8

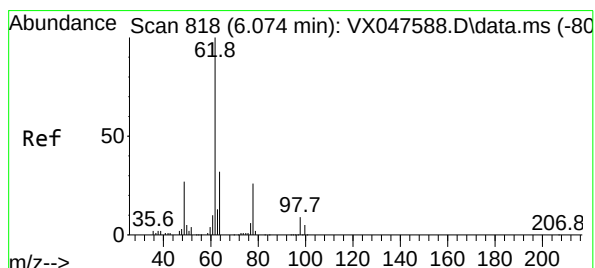
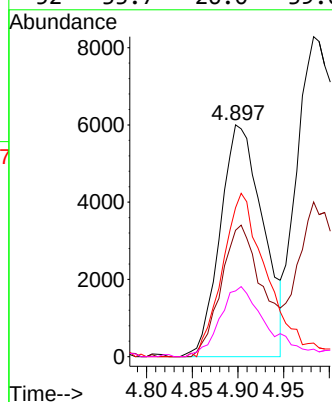
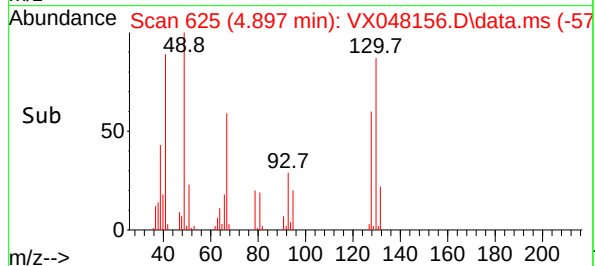
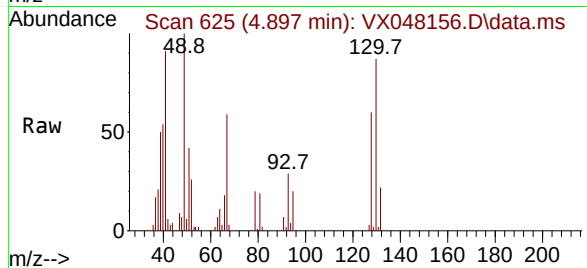
52 33.7 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#42

1,2-Dichloroethane

Concen: 17.416 ug/l

RT: 6.068 min Scan# 817

Delta R.T. -0.006 min

Lab File: VX048156.D

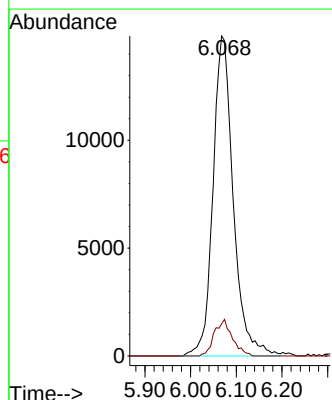
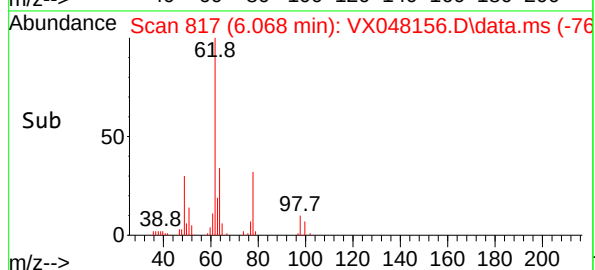
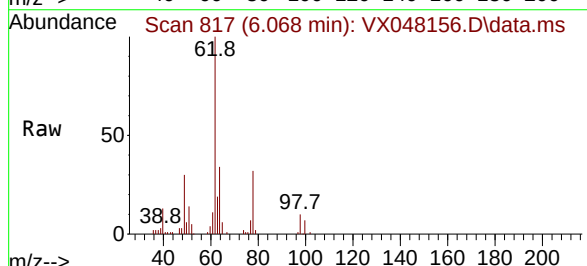
Acq: 14 Oct 2025 11:20

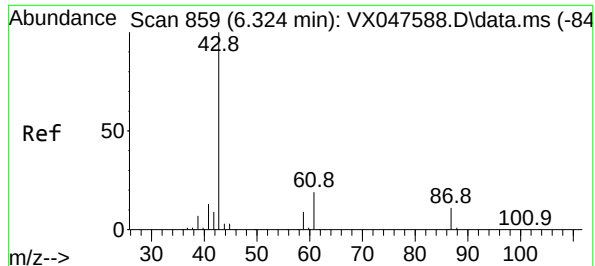
Tgt Ion: 62 Resp: 45764

Ion Ratio Lower Upper

62 100

98 10.1 0.0 17.0





#43

Isopropyl Acetate

Concen: 14.758 ug/l

RT: 6.324 min Scan# 859

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

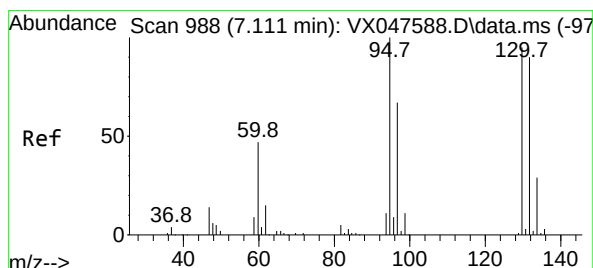
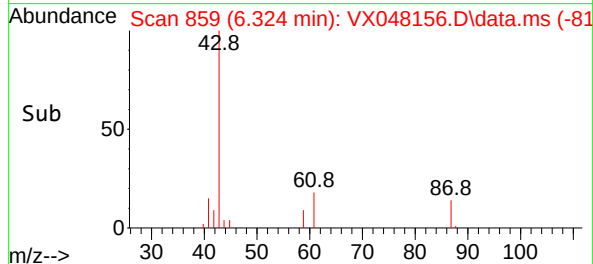
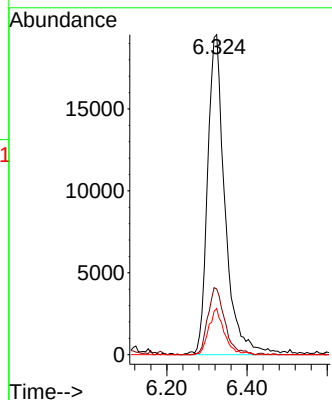
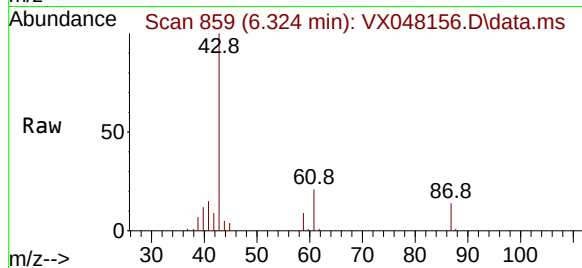
Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion:	43	Resp:	58928
Ion Ratio	Lower	Upper	
43	100		
61	20.3	15.2	22.8
87	12.7	9.6	14.4

Manual Integrations
APPROVEDReviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

#44

Trichloroethene

Concen: 21.065 ug/l

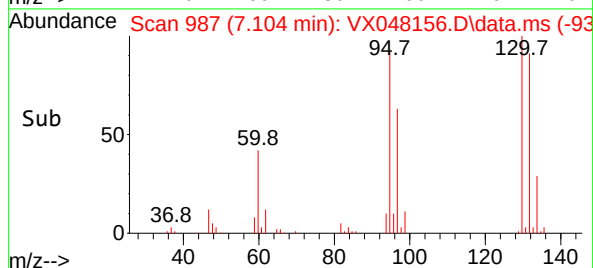
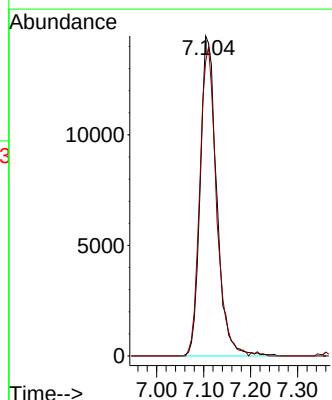
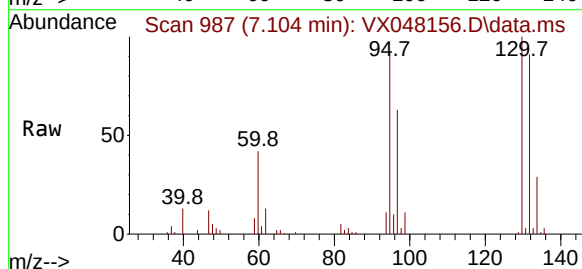
RT: 7.104 min Scan# 987

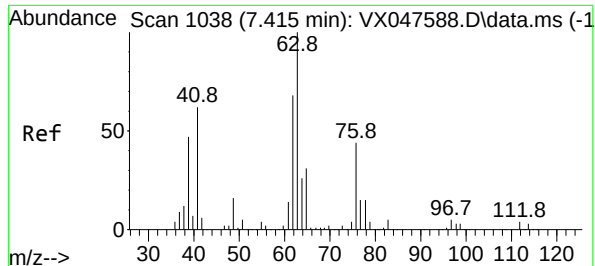
Delta R.T. -0.006 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Tgt Ion:	130	Resp:	35172
Ion Ratio	Lower	Upper	
130	100		
95	92.0	0.0	210.8





#45

1,2-Dichloropropane

Concen: 18.562 ug/l

RT: 7.409 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 63 Resp: 32820

Ion Ratio Lower Upper

63 100

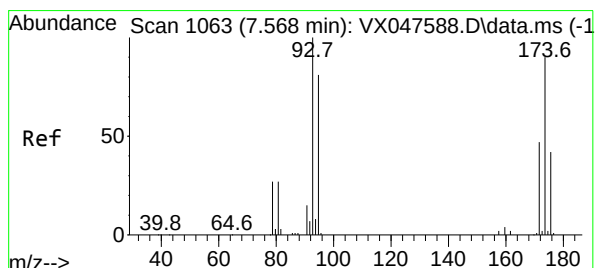
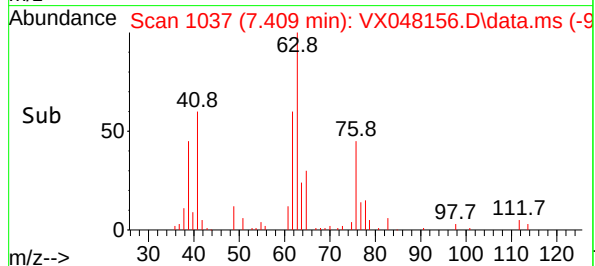
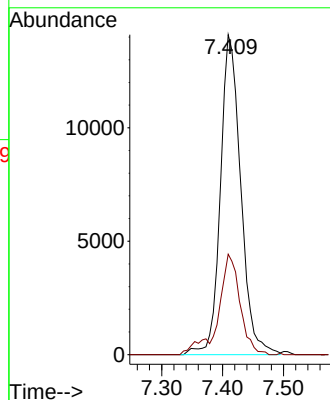
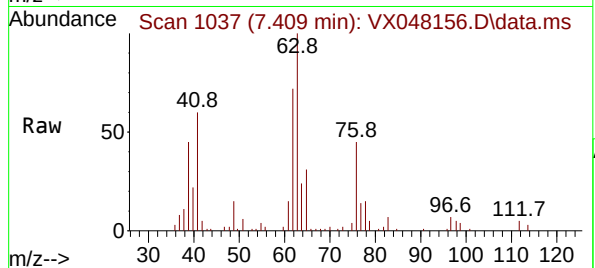
65 31.4 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#46

Dibromomethane

Concen: 18.587 ug/l

RT: 7.562 min Scan# 1062

Delta R.T. -0.006 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

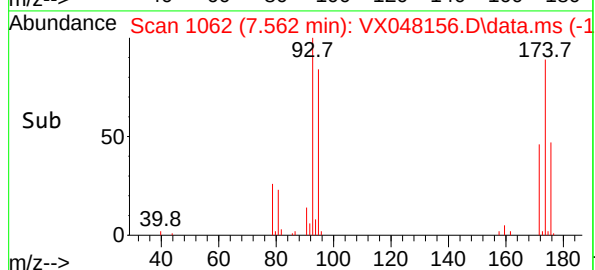
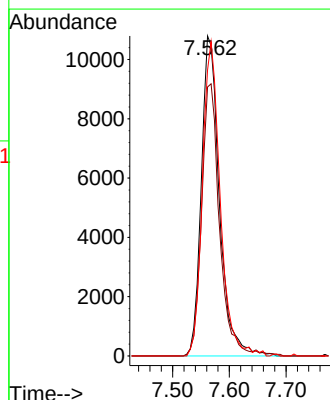
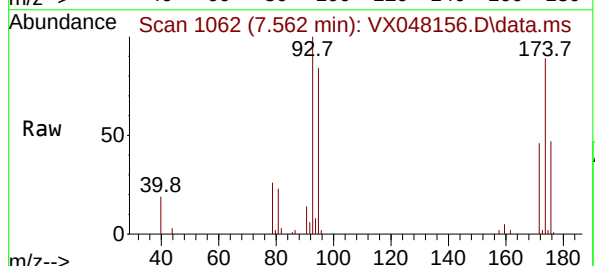
Tgt Ion: 93 Resp: 23919

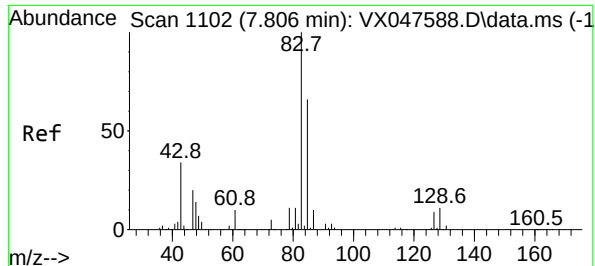
Ion Ratio Lower Upper

93 100

95 84.6 65.0 97.6

174 96.9 71.6 107.4





#47

Bromodichloromethane

Concen: 19.128 ug/l

RT: 7.805 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

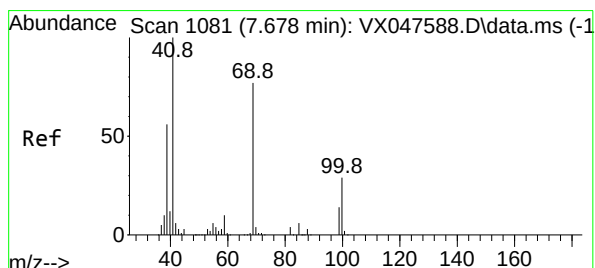
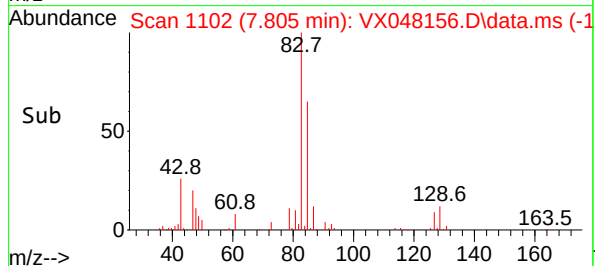
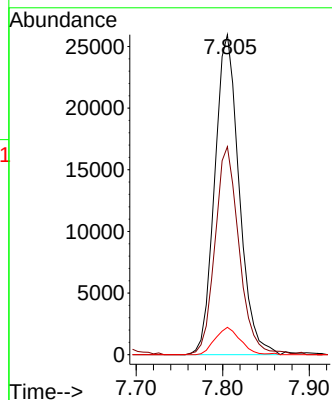
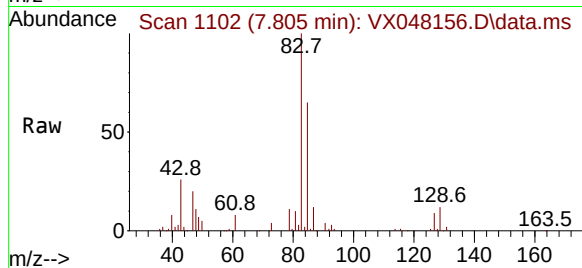
VX1014WBS01

Tgt Ion:	83	Resp:	5079
Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.5	78.7
127	8.6	6.9	10.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#48

Methyl methacrylate

Concen: 14.493 ug/l

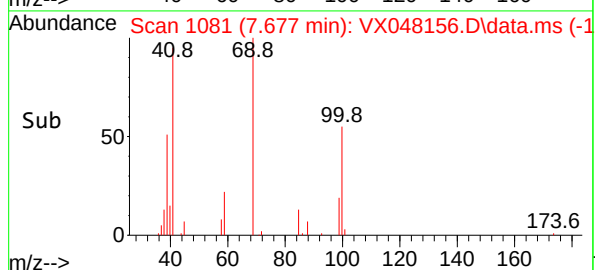
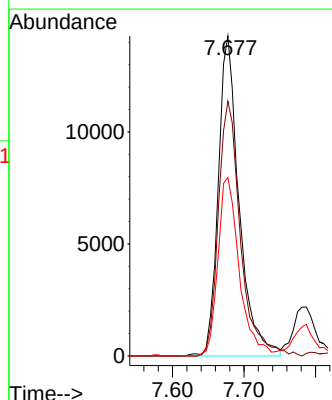
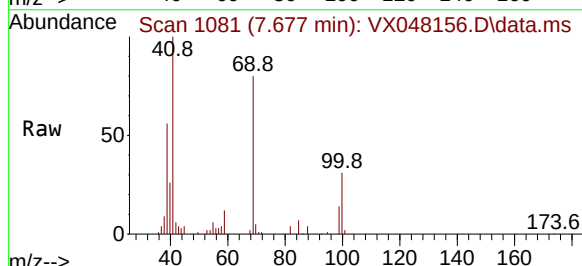
RT: 7.677 min Scan# 1081

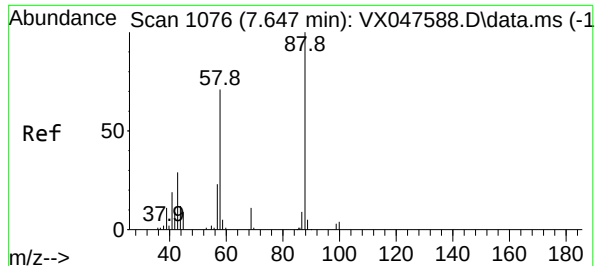
Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Tgt Ion:	41	Resp:	28826
Ion	Ratio	Lower	Upper
41	100		
69	84.6	61.4	92.2
39	57.5	45.8	68.6





#49

1,4-Dioxane

Concen: 347.954 ug/l

RT: 7.647 min Scan# 1076

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 88 Resp: 6994

Ion Ratio Lower Upper

88 100

43 37.4 30.2 45.2

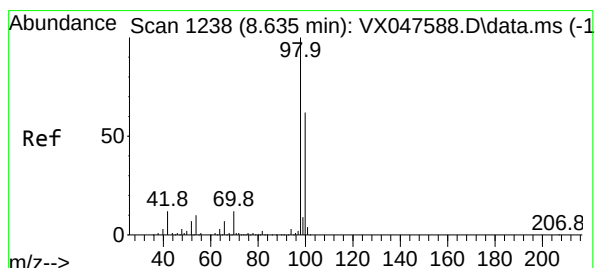
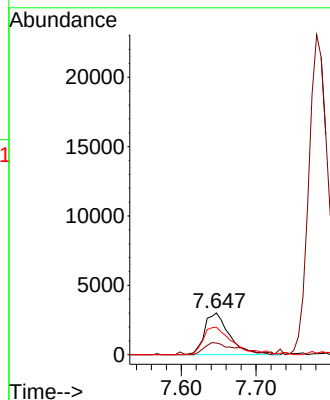
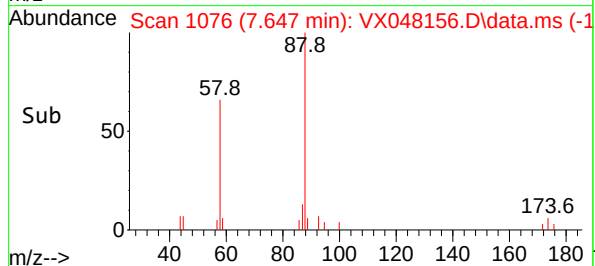
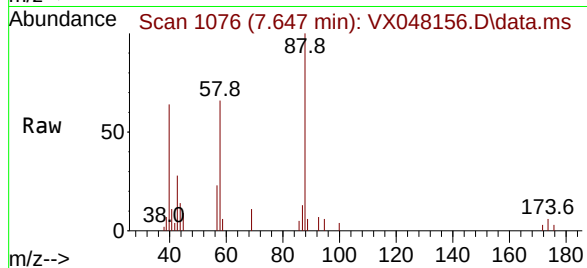
58 77.1 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#50

Toluene-d8

Concen: 51.603 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX048156.D

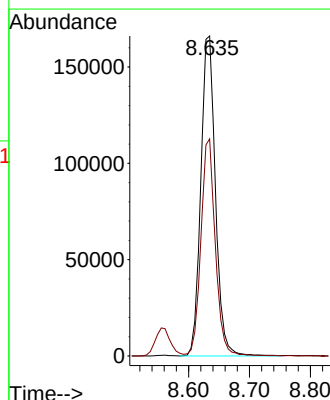
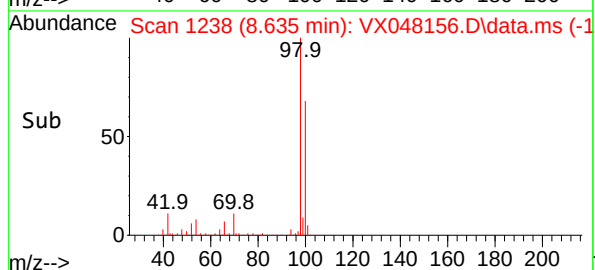
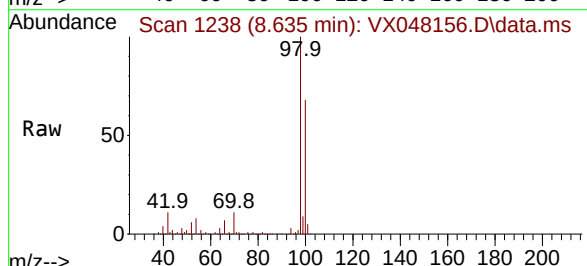
Acq: 14 Oct 2025 11:20

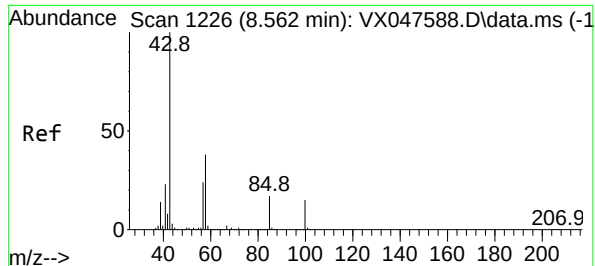
Tgt Ion: 98 Resp: 277852

Ion Ratio Lower Upper

98 100

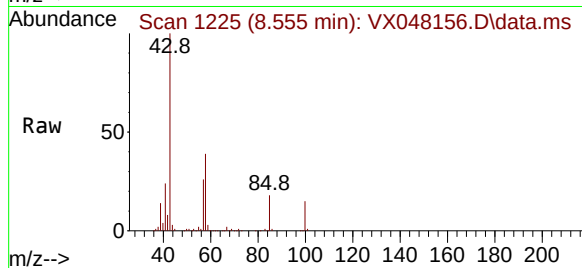
100 66.5 53.0 79.4





#51
4-Methyl-2-Pentanone
Concen: 76.874 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

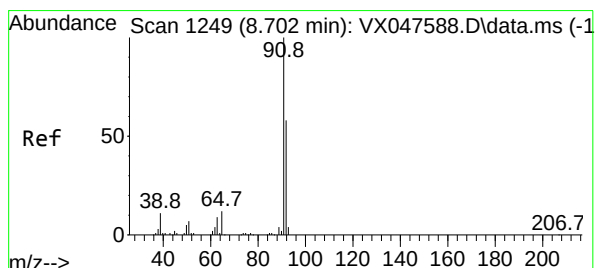
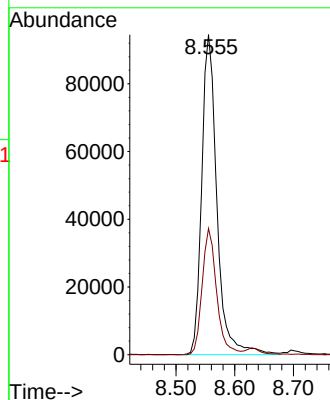
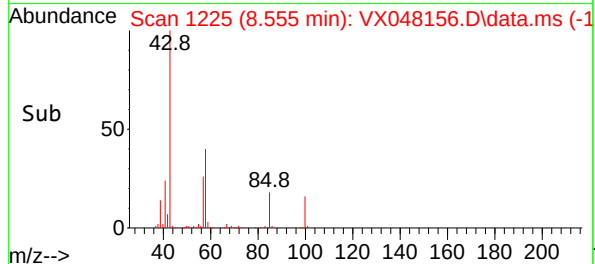
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01



Tgt Ion: 43 Resp: 170189
Ion Ratio Lower Upper
43 100
58 37.5 30.3 45.5

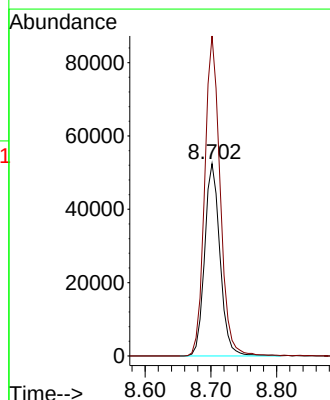
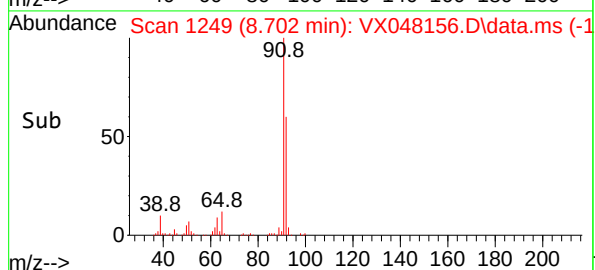
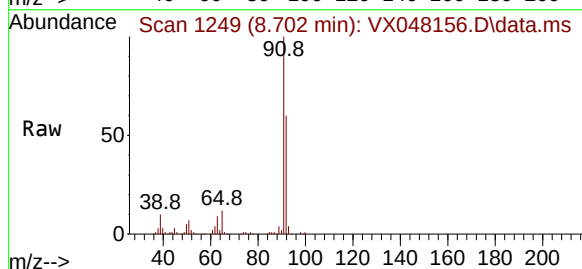
Manual Integrations
APPROVED

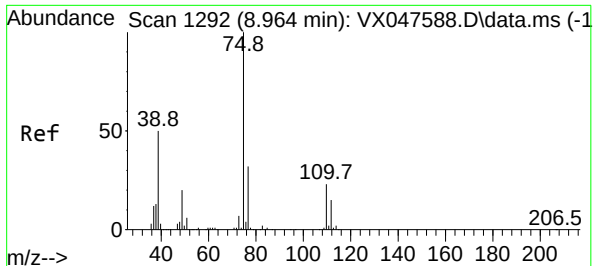
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#52
Toluene
Concen: 20.024 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

Tgt Ion: 92 Resp: 85201
Ion Ratio Lower Upper
92 100
91 167.3 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 17.984 ug/l

RT: 8.964 min Scan# 1191

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 75 Resp: 4871

Ion Ratio Lower Upper

75 100

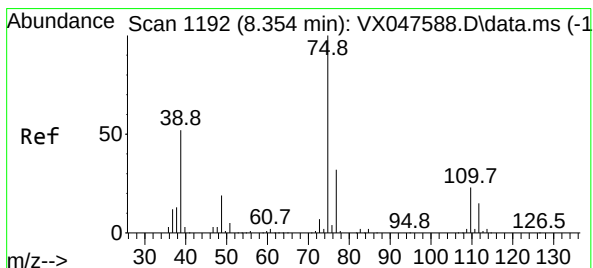
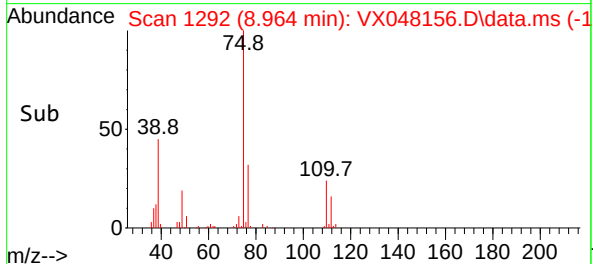
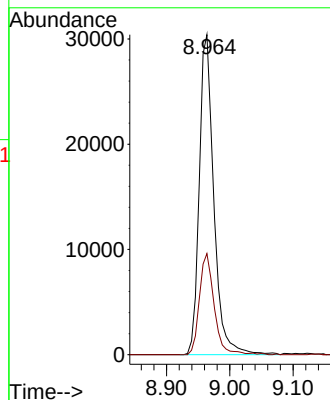
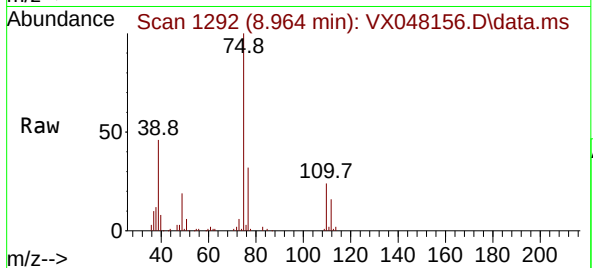
77 31.6 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#54

cis-1,3-Dichloropropene

Concen: 18.398 ug/l

RT: 8.348 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

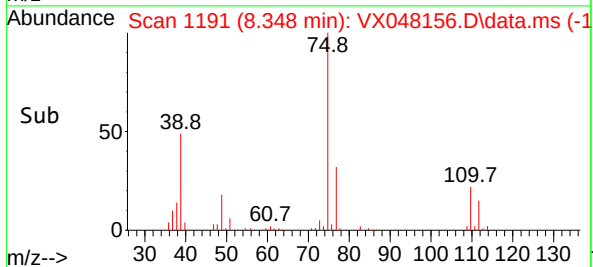
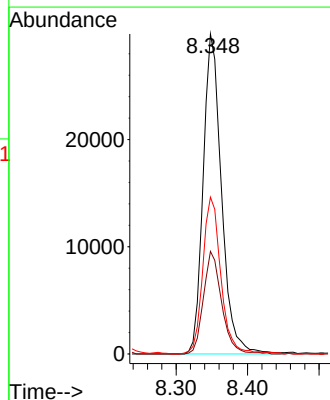
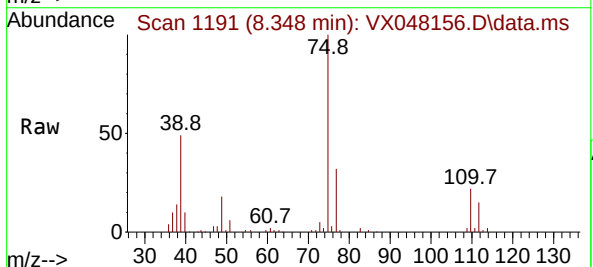
Tgt Ion: 75 Resp: 53266

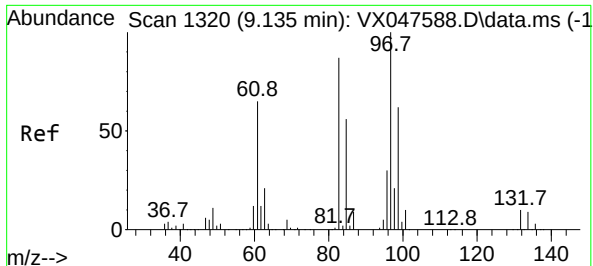
Ion Ratio Lower Upper

75 100

77 32.1 25.8 38.6

39 48.6 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 18.653 ug/l

RT: 9.134 min Scan# 1320

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 97 Resp: 3060

Ion Ratio Lower Upper

97 100

83 89.0 69.6 104.4

85 55.8 45.0 67.6

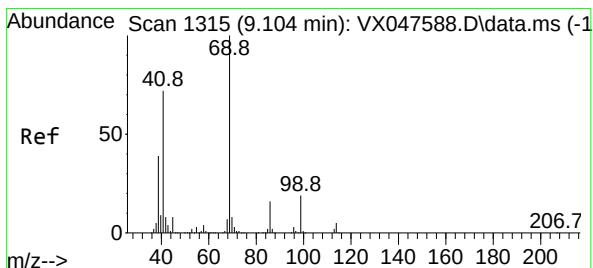
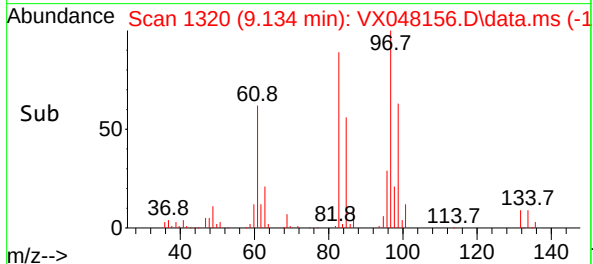
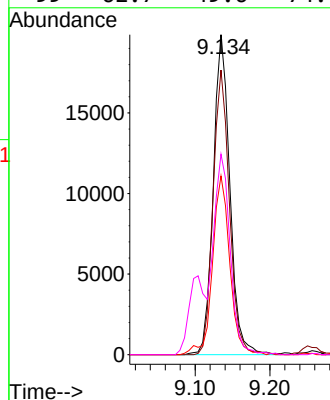
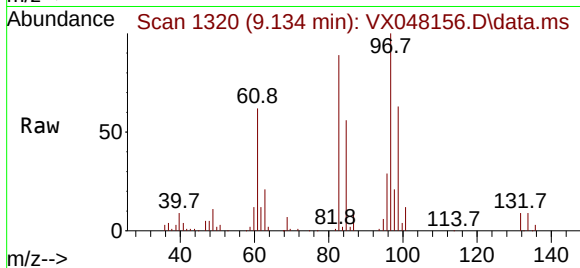
99 62.7 49.6 74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#56

Ethyl methacrylate

Concen: 16.027 ug/l

RT: 9.098 min Scan# 1314

Delta R.T. -0.006 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

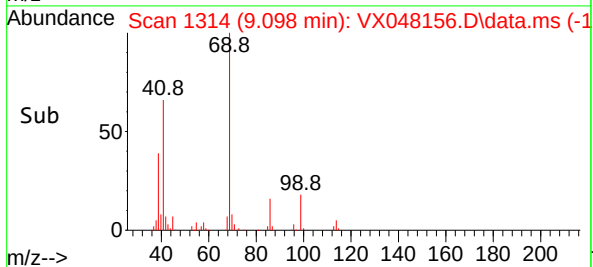
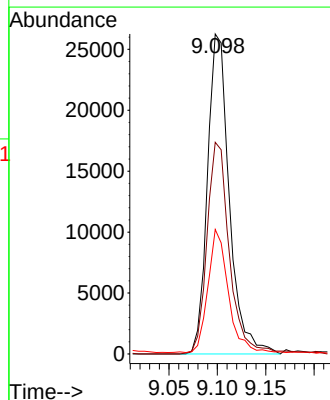
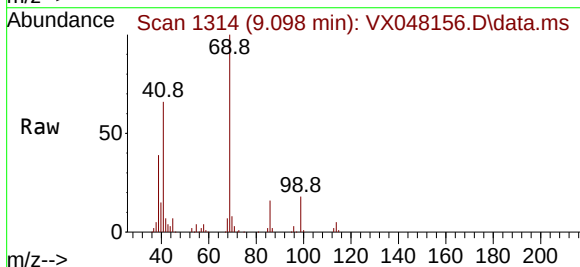
Tgt Ion: 69 Resp: 41297

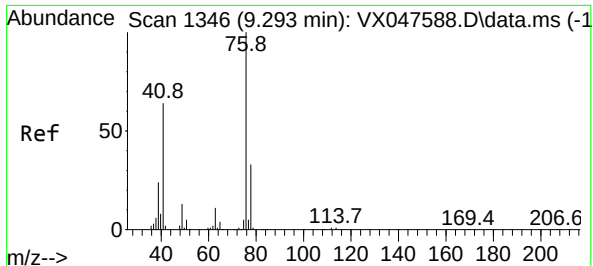
Ion Ratio Lower Upper

69 100

41 68.8 58.6 87.8

39 36.0 31.5 47.3





#57

1,3-Dichloropropane

Concen: 18.822 ug/l

RT: 9.293 min Scan# 11346

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 76 Resp: 5304

Ion Ratio Lower Upper

76 100

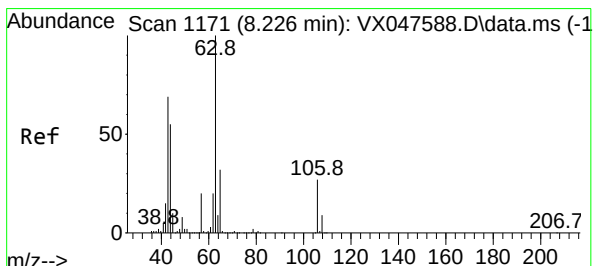
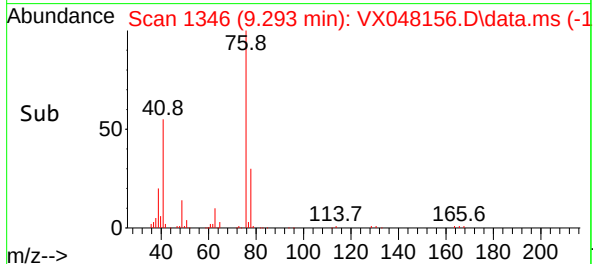
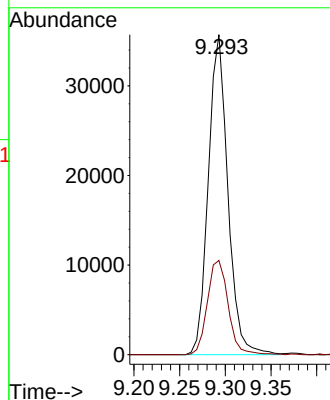
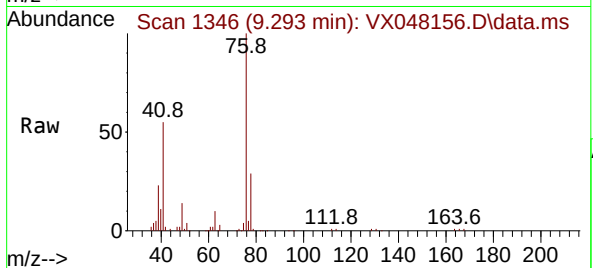
78 31.4 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#58

2-Chloroethyl Vinyl ether

Concen: 82.539 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX048156.D

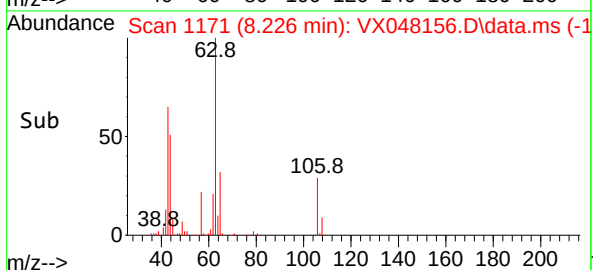
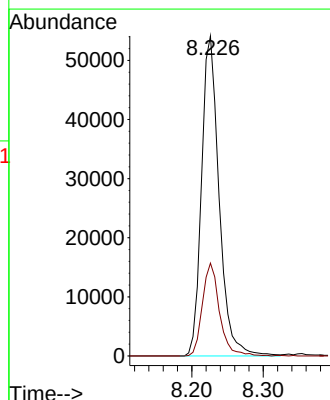
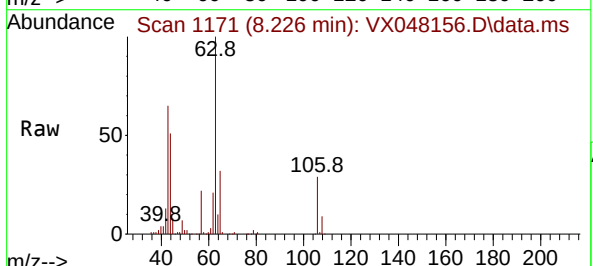
Acq: 14 Oct 2025 11:20

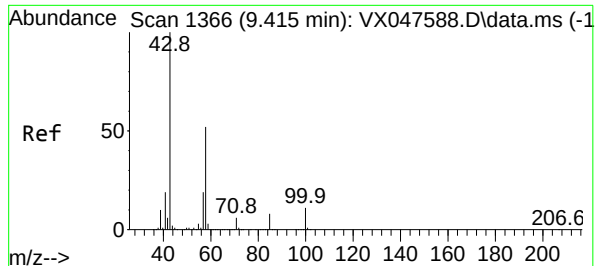
Tgt Ion: 63 Resp: 92446

Ion Ratio Lower Upper

63 100

106 28.2 21.9 32.9





#59

2-Hexanone

Concen: 74.335 ug/l

RT: 9.415 min Scan# 11819

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 43 Resp: 11819

Ion Ratio Lower Upper

43 100

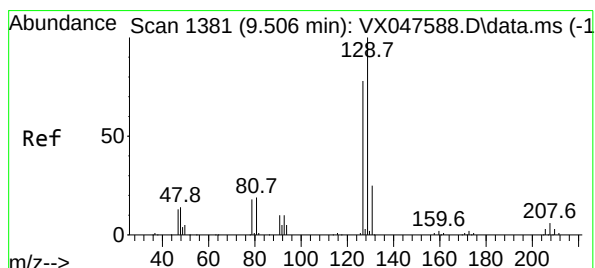
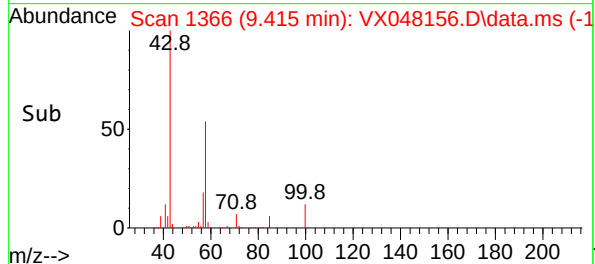
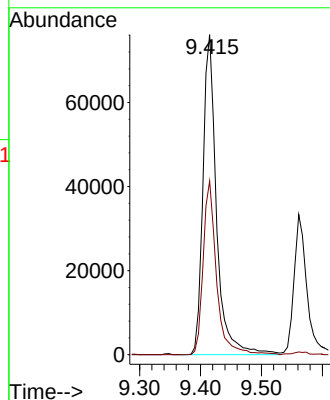
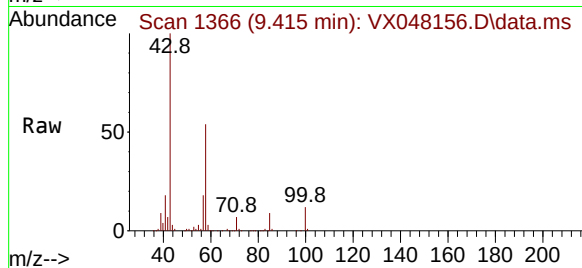
58 53.5 26.1 78.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#60

Dibromochloromethane

Concen: 20.340 ug/l

RT: 9.500 min Scan# 1380

Delta R.T. -0.006 min

Lab File: VX048156.D

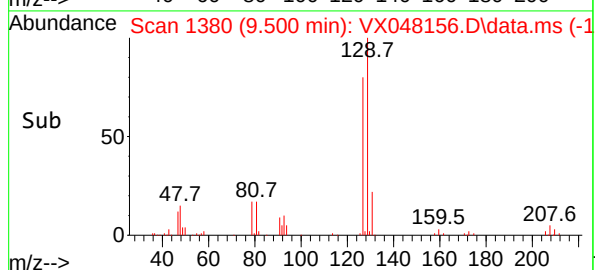
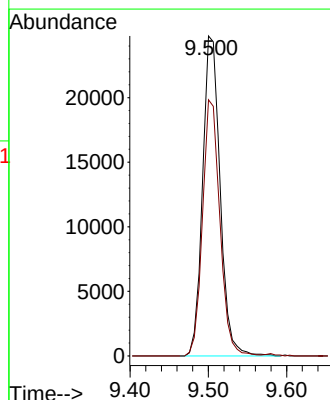
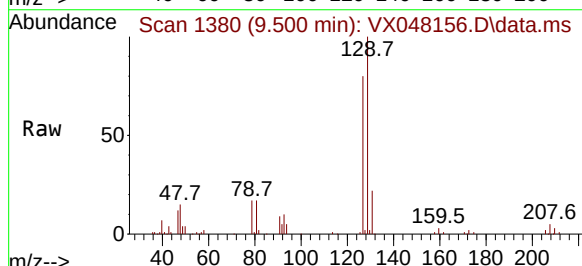
Acq: 14 Oct 2025 11:20

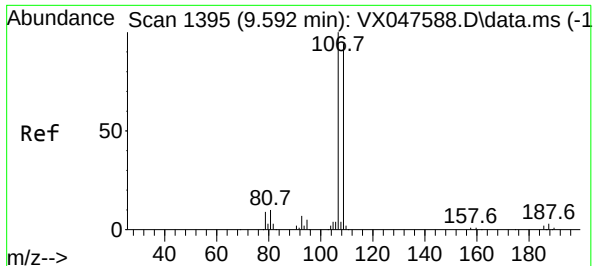
Tgt Ion:129 Resp: 38451

Ion Ratio Lower Upper

129 100

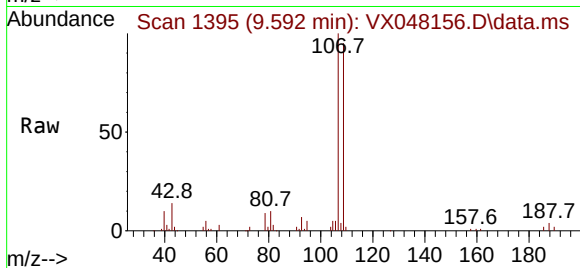
127 79.5 38.4 115.2





#61
1,2-Dibromoethane
Concen: 19.158 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

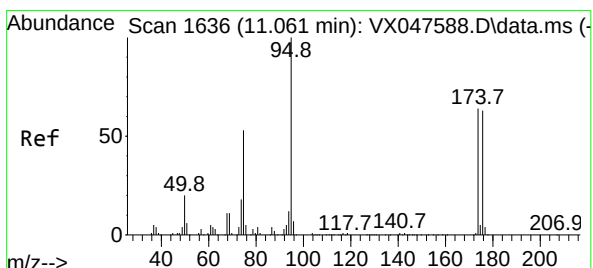
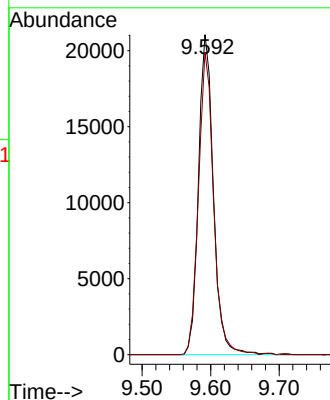
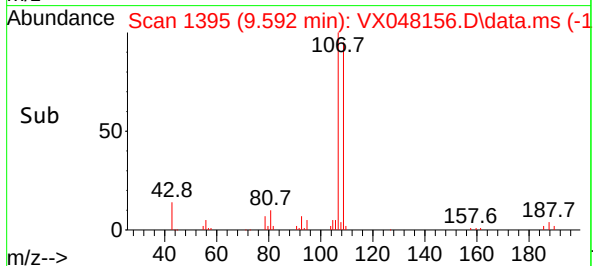
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01



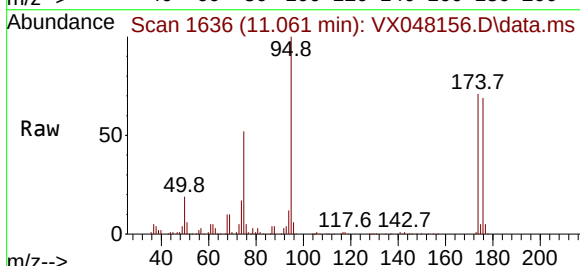
Tgt Ion:107 Resp: 32010
Ion Ratio Lower Upper
107 100
109 95.4 75.3 112.9

Manual Integrations
APPROVED

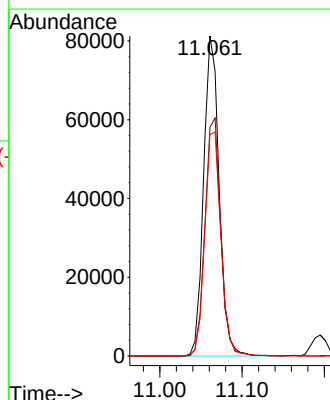
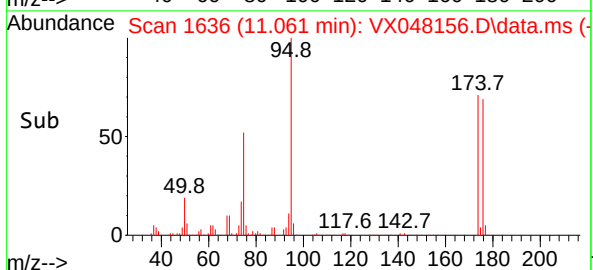
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

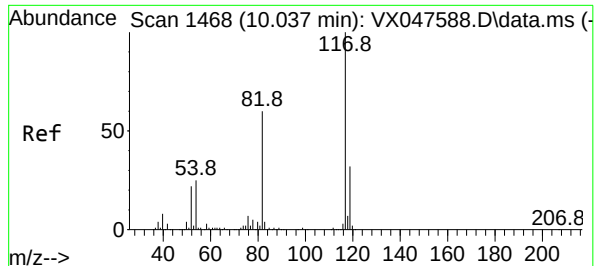


#62
4-Bromofluorobenzene
Concen: 52.112 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20



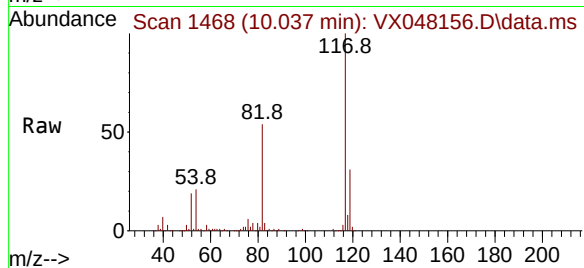
Tgt Ion: 95 Resp: 106490
Ion Ratio Lower Upper
95 100
174 75.7 0.0 141.6
176 72.4 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

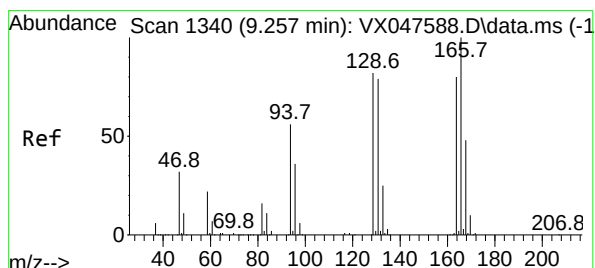
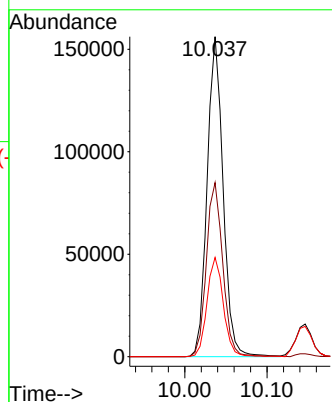
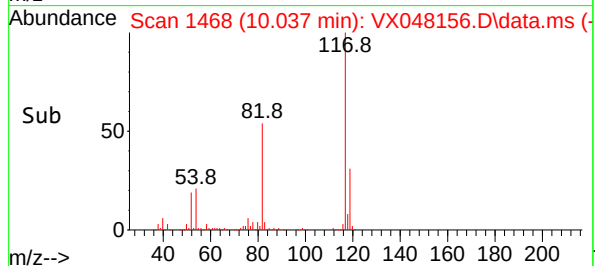
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01



Tgt Ion:117 Resp: 210304
Ion Ratio Lower Upper
117 100
82 54.4 47.8 71.6
119 31.0 25.2 37.8

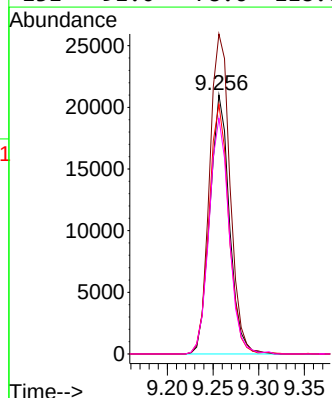
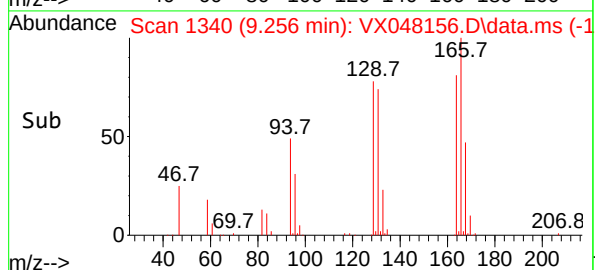
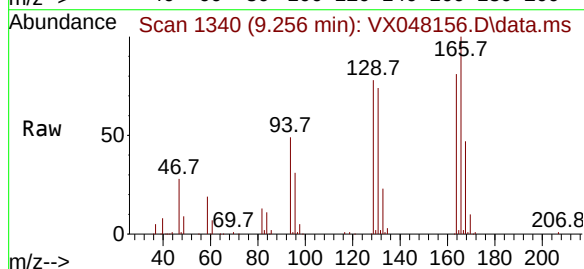
Manual Integrations
APPROVED

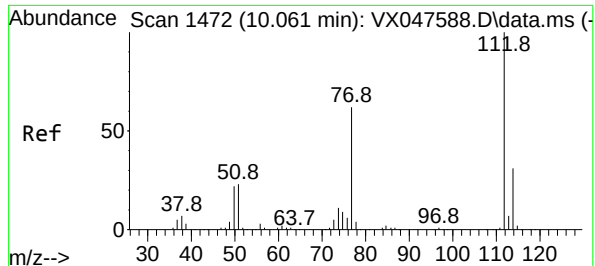
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#64
Tetrachloroethene
Concen: 22.789 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

Tgt Ion:164 Resp: 31243
Ion Ratio Lower Upper
164 100
166 123.5 100.2 150.2
129 96.4 81.8 122.6
131 91.0 78.6 118.0





#65

Chlorobenzene

Concen: 19.536 ug/l

RT: 10.061 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion:112 Resp: 93338

Ion Ratio Lower Upper

112 100

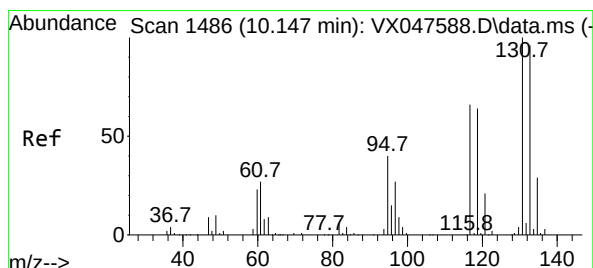
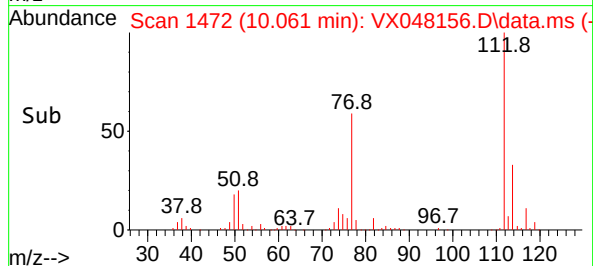
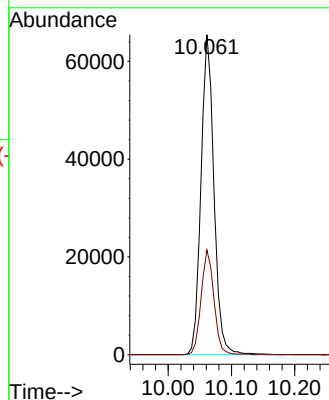
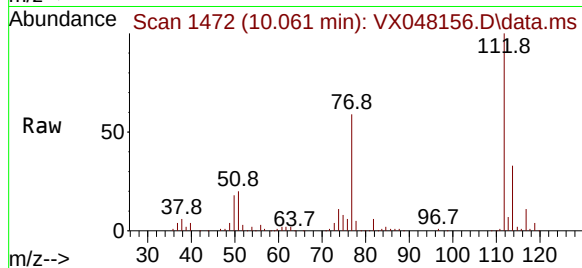
114 32.7 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 20.154 ug/l

RT: 10.146 min Scan# 1486

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

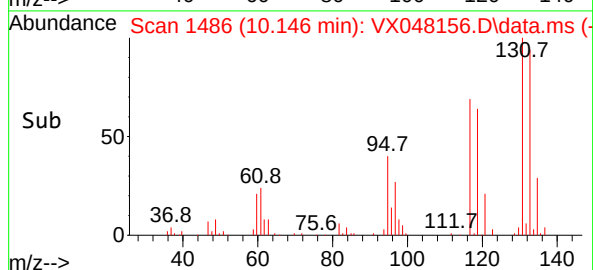
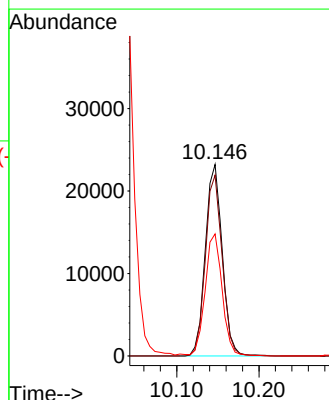
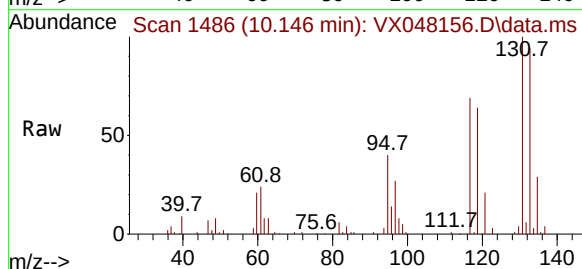
Tgt Ion:131 Resp: 33227

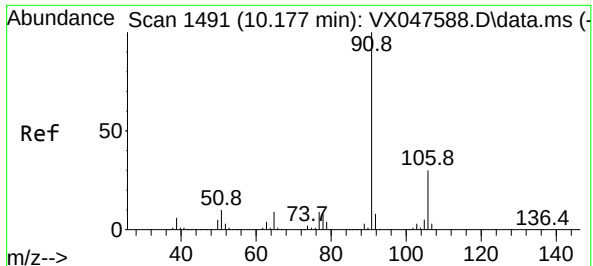
Ion Ratio Lower Upper

131 100

133 93.6 47.3 142.0

119 64.2 32.0 96.0





#67

Ethyl Benzene

Concen: 19.163 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 91 Resp: 157968

Ion Ratio Lower Upper

91 100

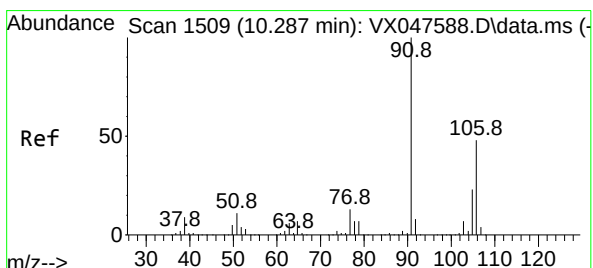
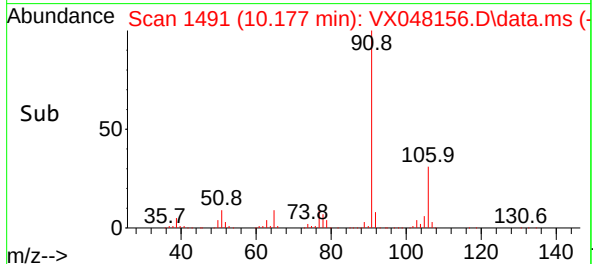
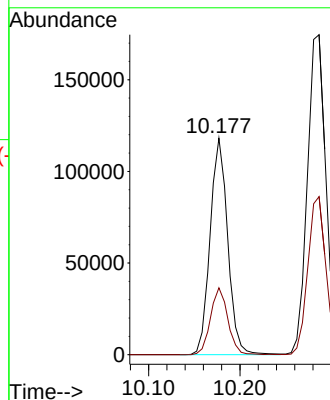
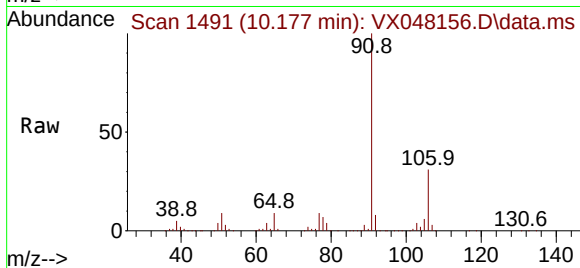
106 30.9 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#68

m/p-Xylenes

Concen: 39.501 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX048156.D

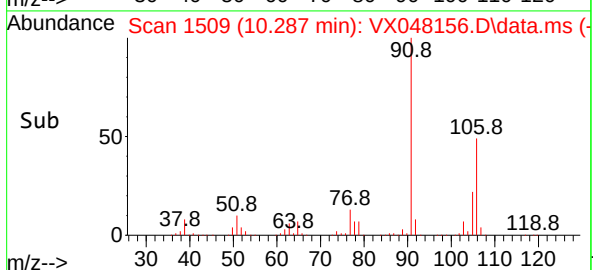
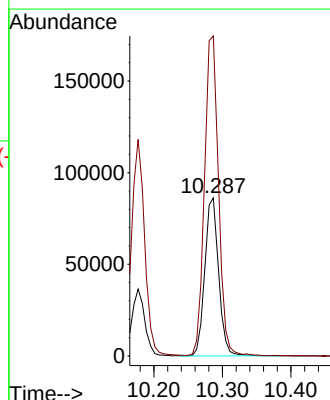
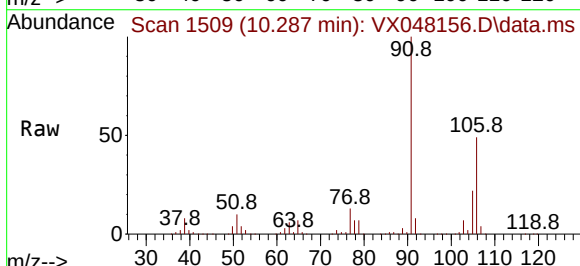
Acq: 14 Oct 2025 11:20

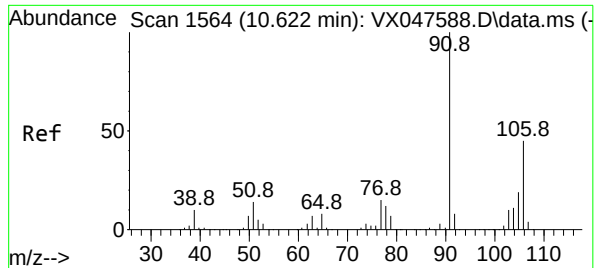
Tgt Ion:106 Resp: 121203

Ion Ratio Lower Upper

106 100

91 205.4 167.8 251.8





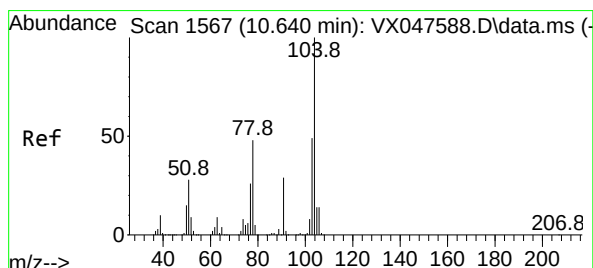
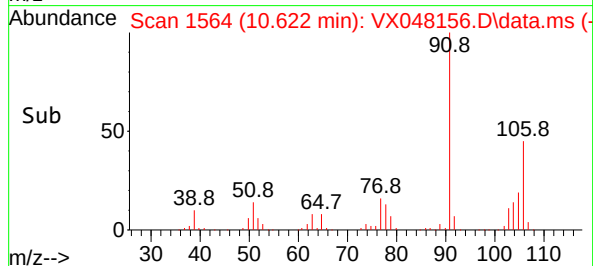
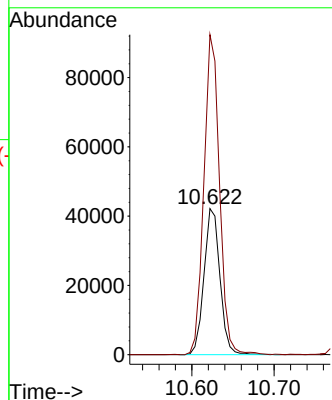
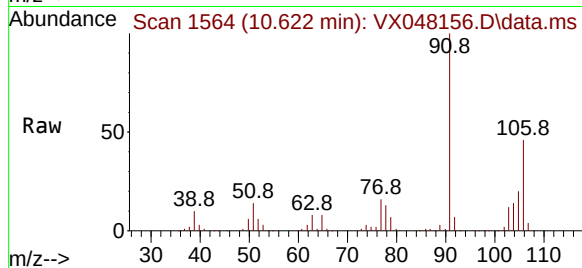
#69
o-Xylene
Concen: 19.199 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01

Tgt Ion:106 Resp: 56980
Ion Ratio Lower Upper
106 100
91 214.6 111.1 333.4

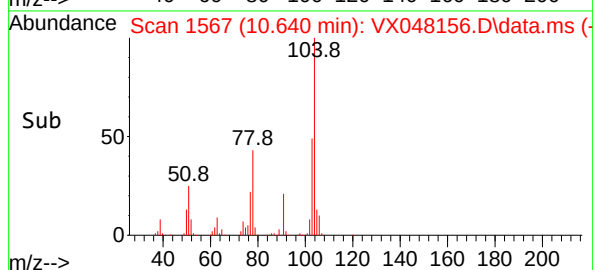
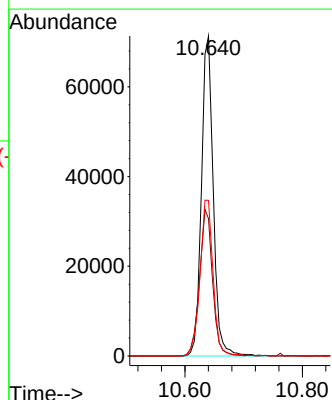
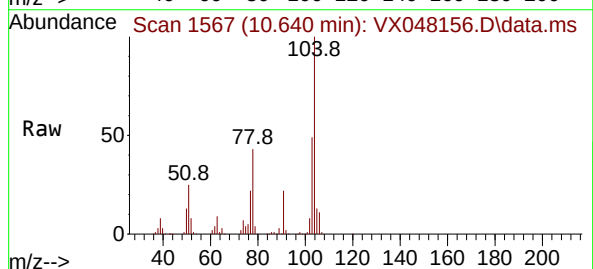
Manual Integrations
APPROVED

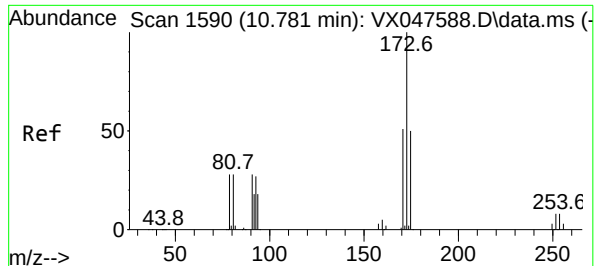
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#70
Styrene
Concen: 19.214 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

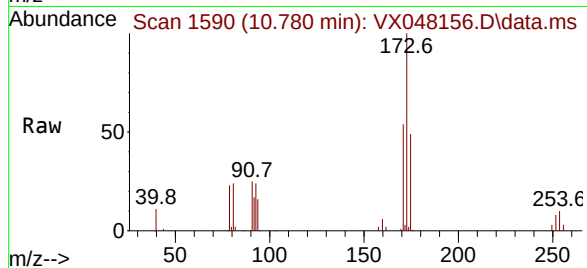
Tgt Ion:104 Resp: 99914
Ion Ratio Lower Upper
104 100
78 50.4 43.1 64.7
103 54.0 43.1 64.7





#71
Bromoform
Concen: 19.870 ug/l
RT: 10.780 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

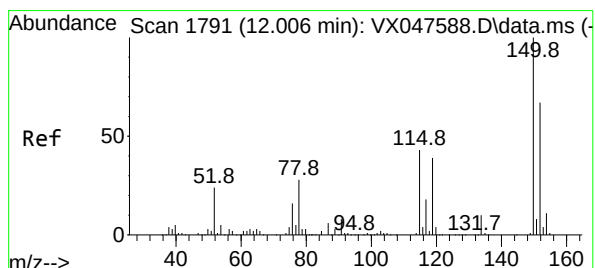
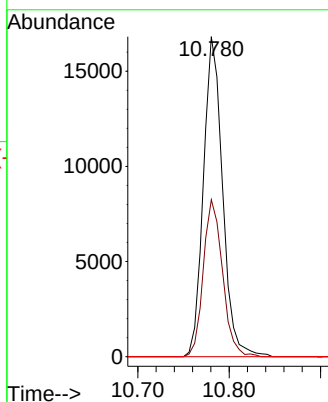
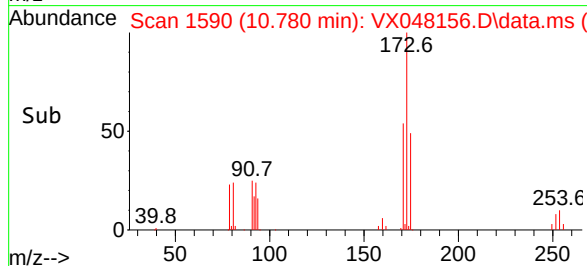
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01



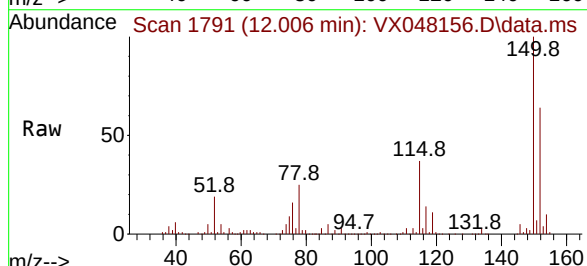
Tgt Ion:173 Resp: 2446
Ion Ratio Lower Upper
173 100
175 49.2 24.9 74.6
254 0.0 0.1 0.1

Manual Integrations
APPROVED

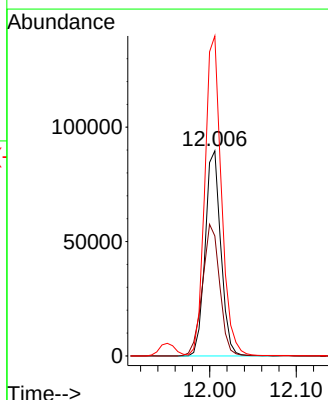
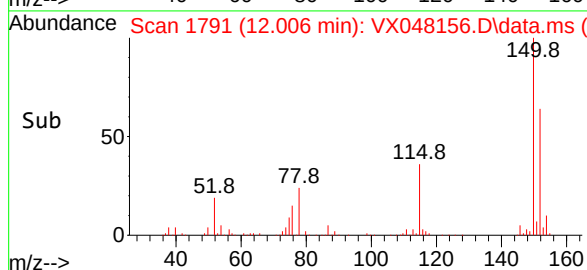
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

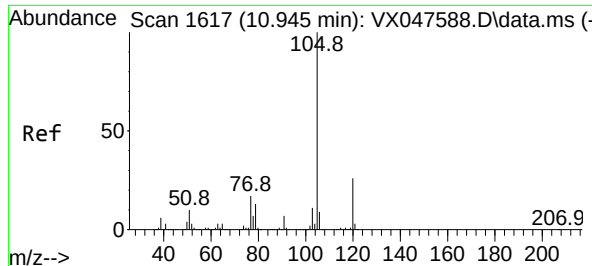


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20



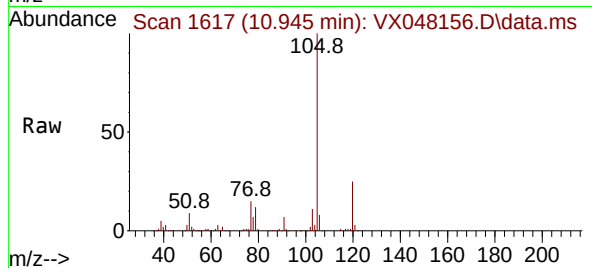
Tgt Ion:152 Resp: 112794
Ion Ratio Lower Upper
152 100
115 70.6 44.9 134.5
150 164.9 0.0 352.0





#73
Isopropylbenzene
Concen: 17.719 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

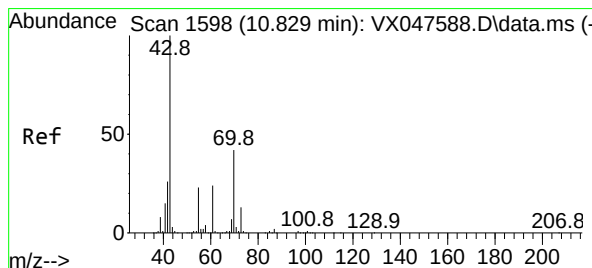
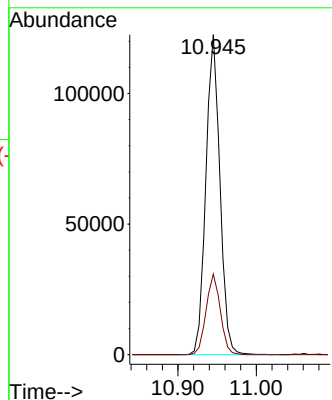
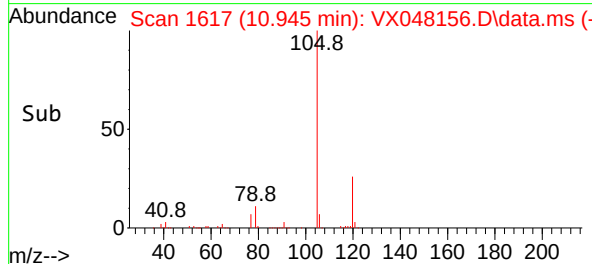
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01



Tgt Ion:105 Resp: 151949
Ion Ratio Lower Upper
105 100
120 25.5 12.8 38.4

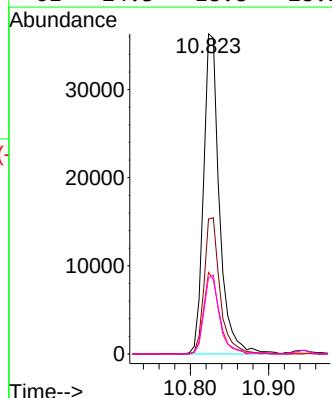
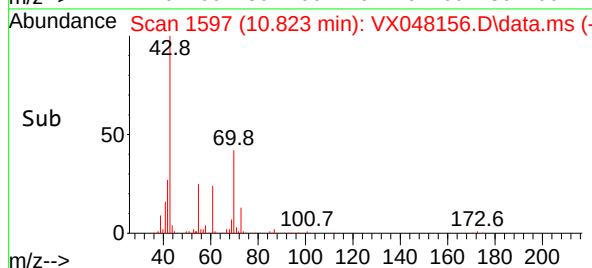
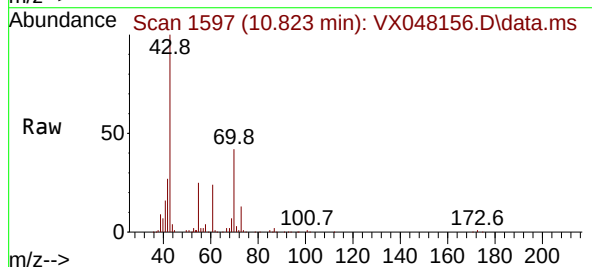
Manual Integrations
APPROVED

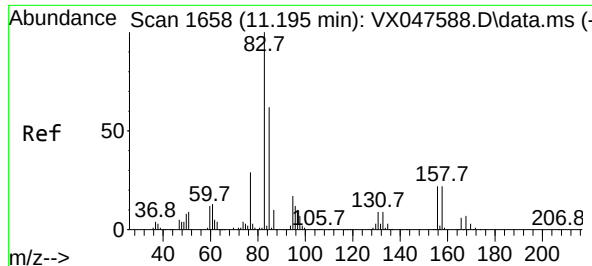
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#74
N-ethyl acetate
Concen: 13.087 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

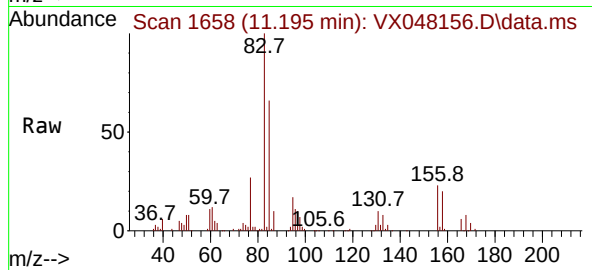
Tgt Ion: 43 Resp: 51175
Ion Ratio Lower Upper
43 100
70 42.6 32.0 48.0
55 25.4 18.9 28.3
61 24.3 18.8 28.2





#75
1,1,2,2-Tetrachloroethane
Concen: 15.961 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

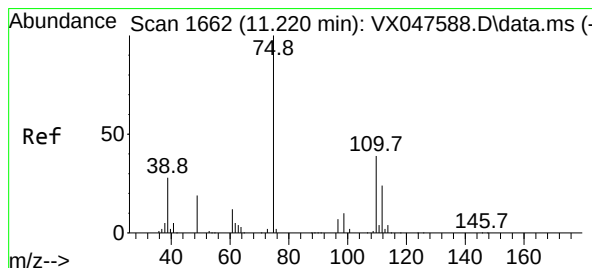
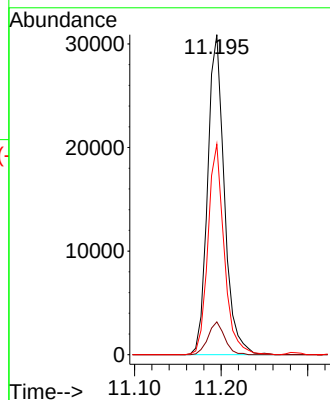
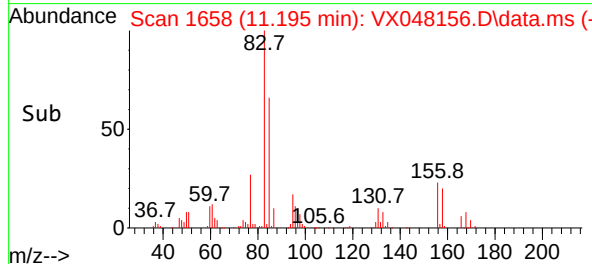
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01



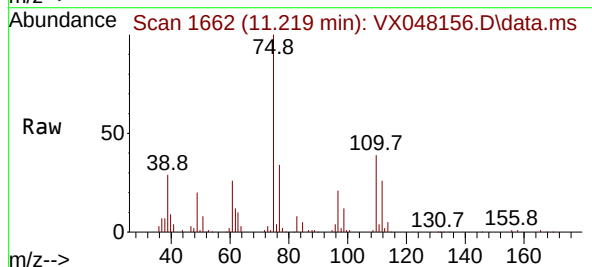
Tgt Ion: 83 Resp: 41410
Ion Ratio Lower Upper
83 100
131 10.1 5.0 14.9
85 64.1 31.6 95.0

Manual Integrations
APPROVED

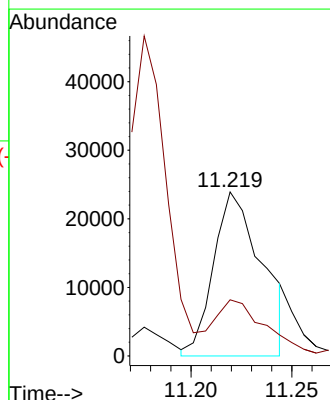
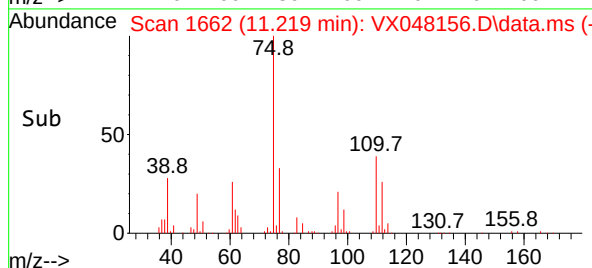
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

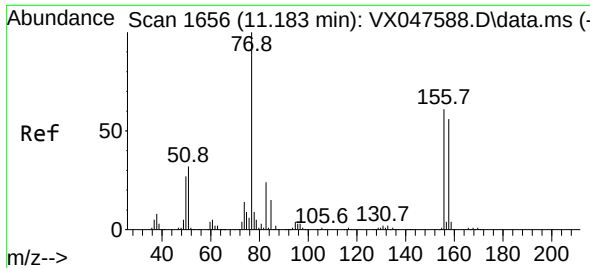


#76
1,2,3-Trichloropropane
Concen: 17.501 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20



Tgt Ion: 75 Resp: 39967
Ion Ratio Lower Upper
75 100
77 34.0 18.8 56.4





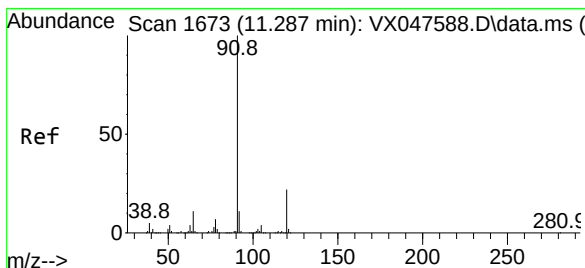
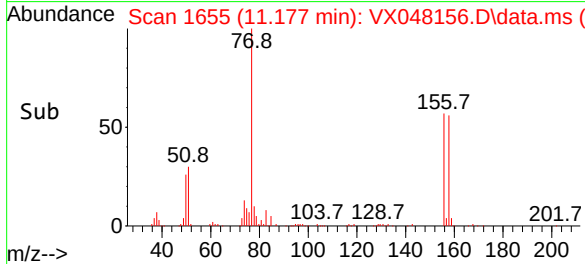
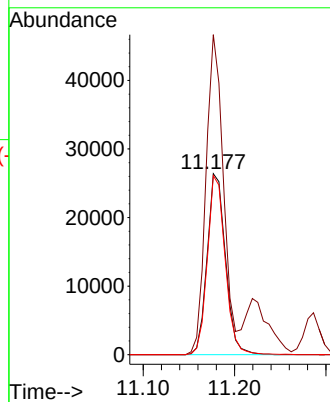
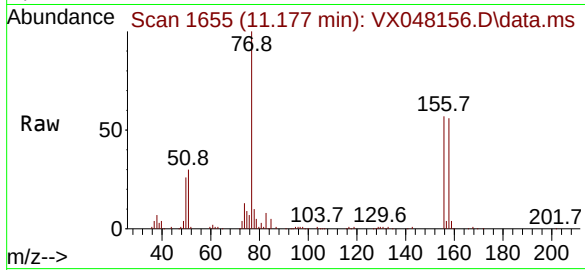
#77
Bromobenzene
Concen: 17.445 ug/l
RT: 11.177 min Scan# 1655
Delta R.T. -0.006 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01

Tgt Ion:156 Resp: 3684
Ion Ratio Lower Upper
156 100
77 166.7 89.7 269.1
158 96.4 47.9 143.6

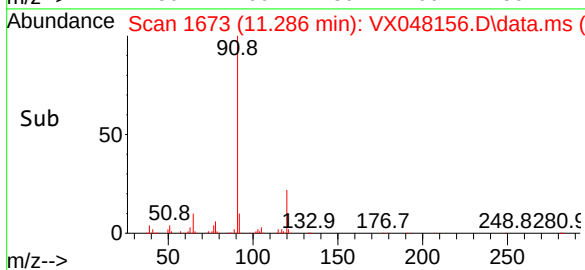
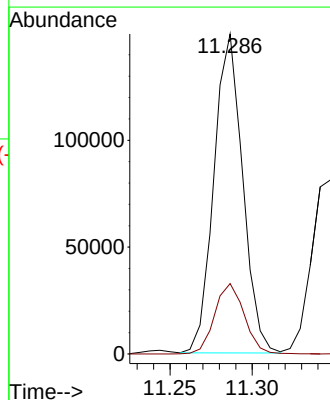
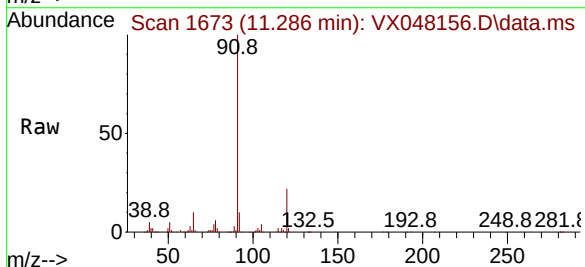
Manual Integrations
APPROVED

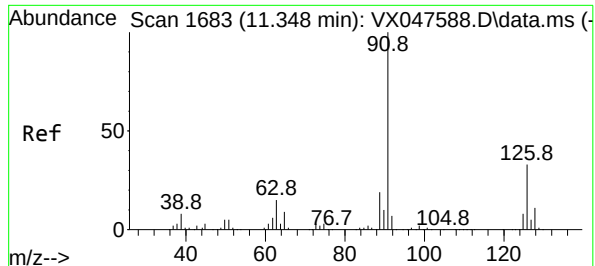
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#78
n-propylbenzene
Concen: 17.911 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

Tgt Ion: 91 Resp: 181568
Ion Ratio Lower Upper
91 100
120 22.7 11.1 33.1





#79

2-Chlorotoluene

Concen: 17.216 ug/l

RT: 11.347 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 91 Resp: 106892

Ion Ratio Lower Upper

91 100

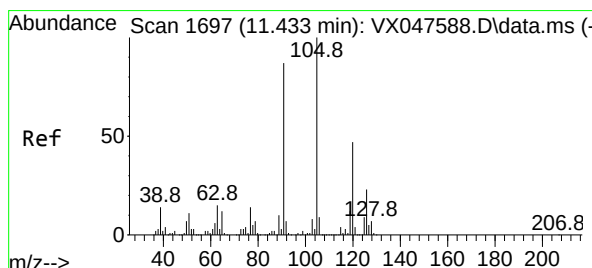
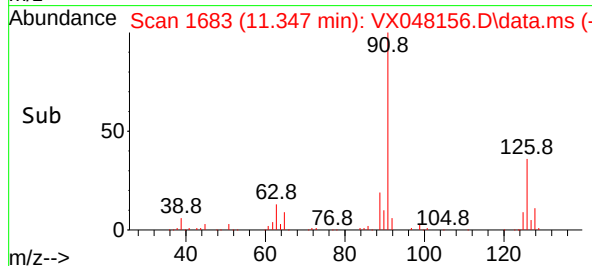
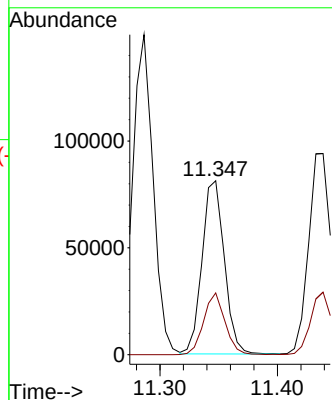
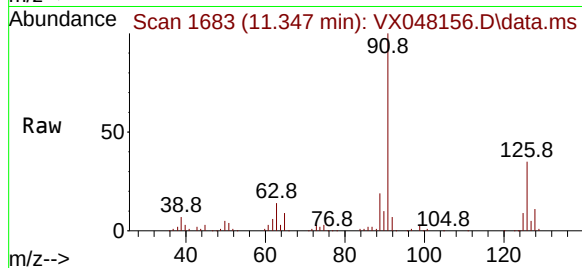
126 34.3 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#80

1,3,5-Trimethylbenzene

Concen: 17.677 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX048156.D

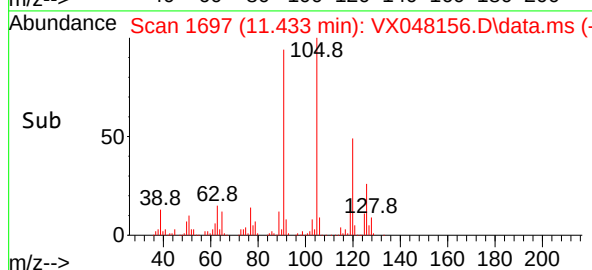
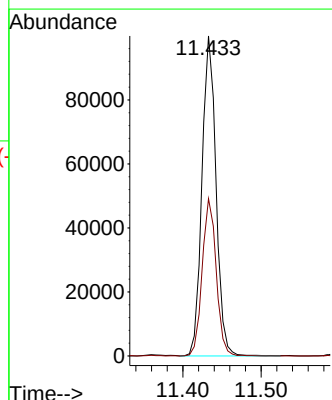
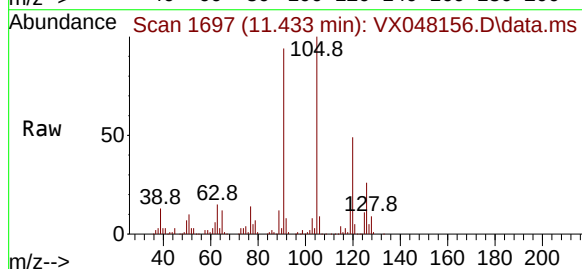
Acq: 14 Oct 2025 11:20

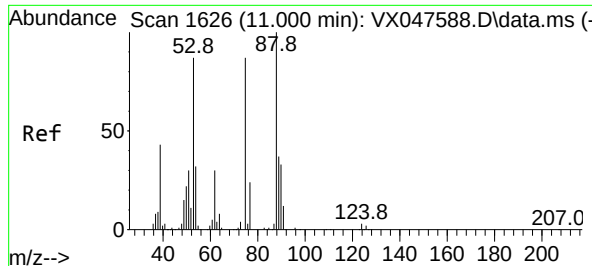
Tgt Ion:105 Resp: 124542

Ion Ratio Lower Upper

105 100

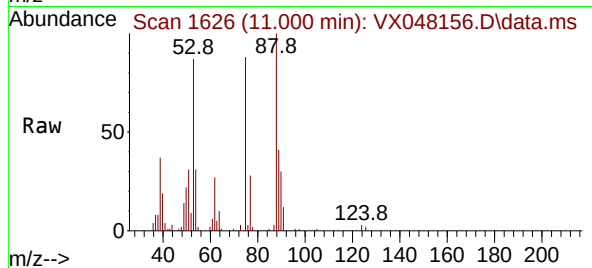
120 49.0 23.6 70.8





#81
trans-1,4-Dichloro-2-butene
Concen: 13.727 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

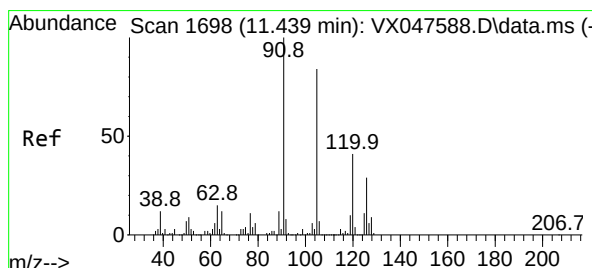
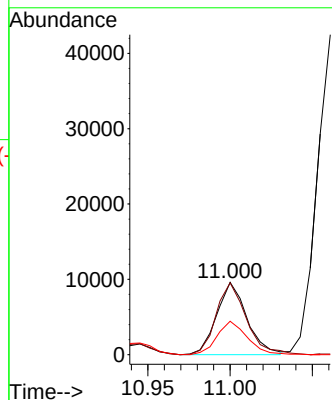
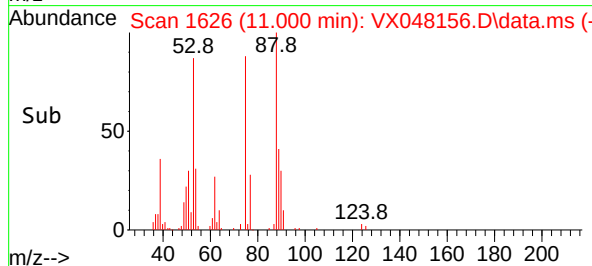
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01



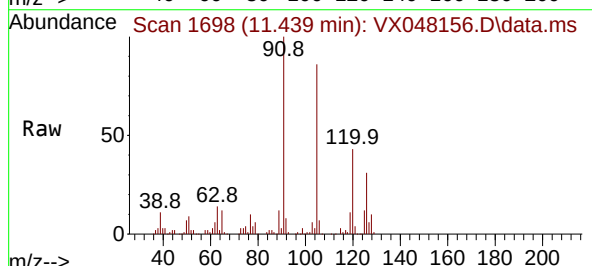
Tgt Ion: 75 Resp: 1229
Ion Ratio Lower Upper
75 100
53 99.2 83.4 125.2
89 46.1 36.3 54.5

Manual Integrations
APPROVED

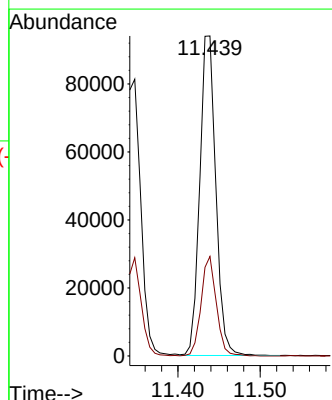
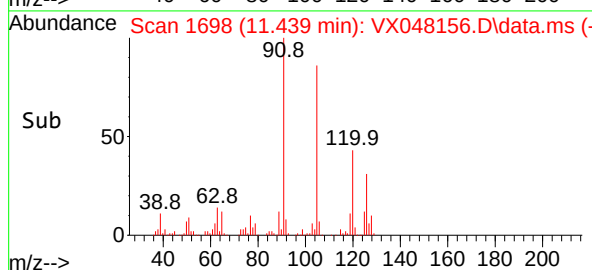
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

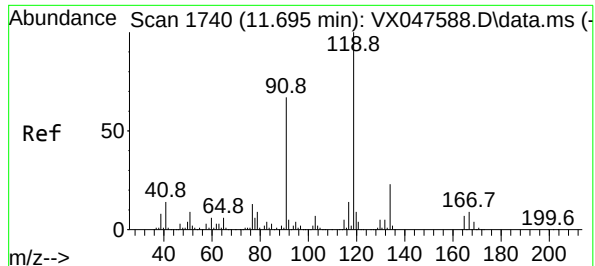


#82
4-Chlorotoluene
Concen: 17.374 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20



Tgt Ion: 91 Resp: 127403
Ion Ratio Lower Upper
91 100
126 29.6 14.2 42.6





#83

tert-Butylbenzene

Concen: 17.316 ug/l

RT: 11.695 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion:119 Resp: 124884

Ion Ratio Lower Upper

119 100

91 58.0 29.6 88.8

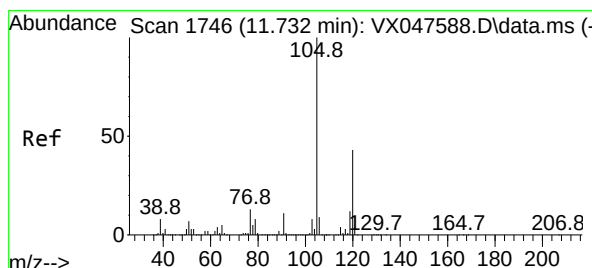
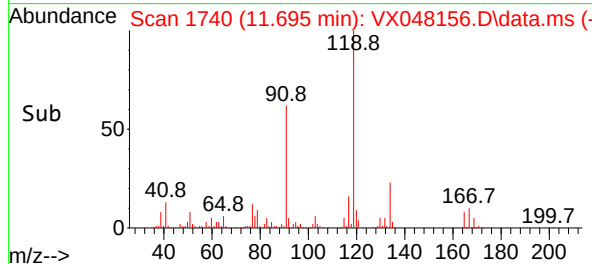
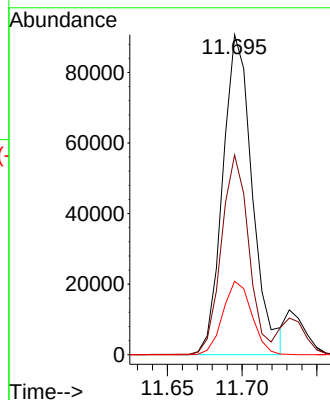
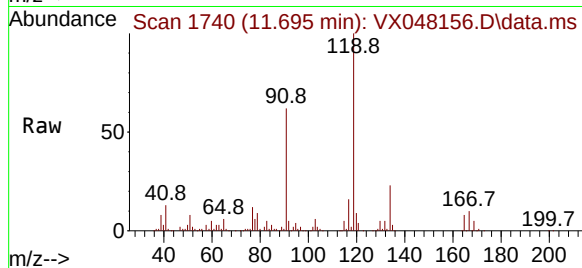
134 22.4 11.0 33.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#84

1,2,4-Trimethylbenzene

Concen: 17.401 ug/l

RT: 11.732 min Scan# 1746

Delta R.T. -0.000 min

Lab File: VX048156.D

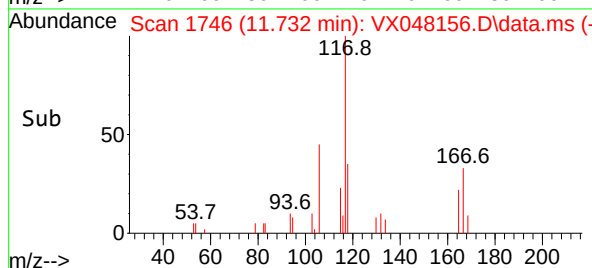
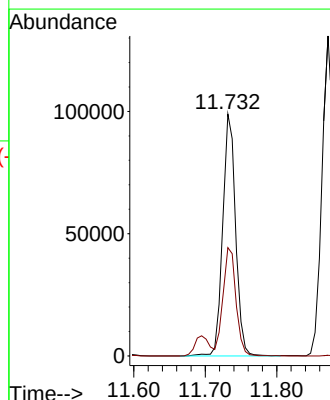
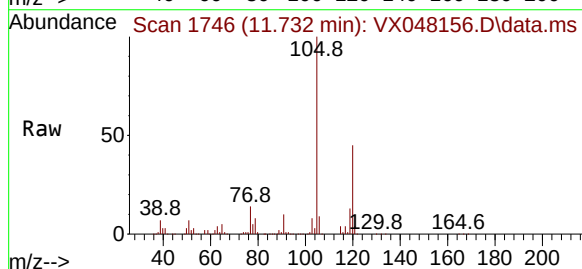
Acq: 14 Oct 2025 11:20

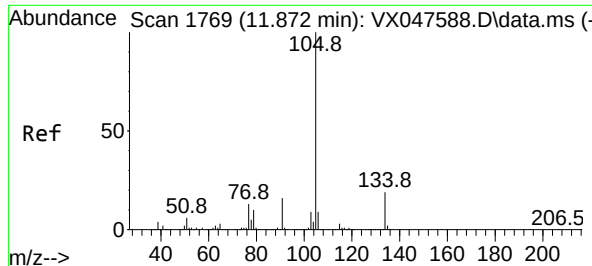
Tgt Ion:105 Resp: 124291

Ion Ratio Lower Upper

105 100

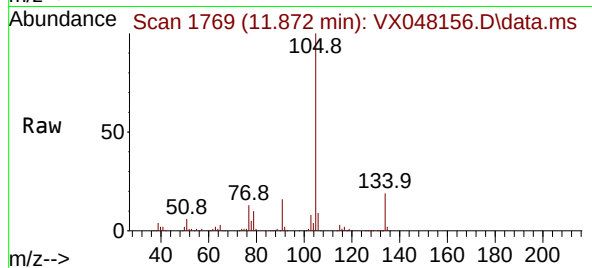
120 45.0 22.1 66.1





#85
sec-Butylbenzene
Concen: 18.298 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

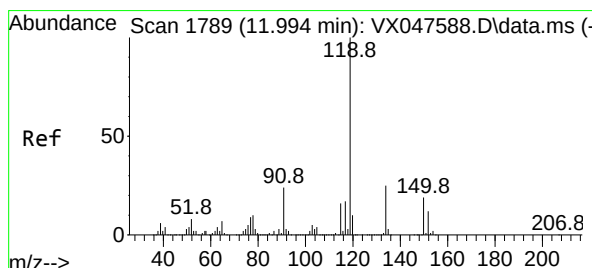
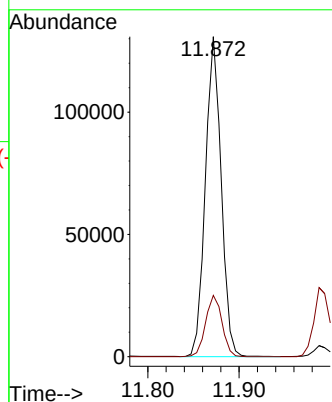
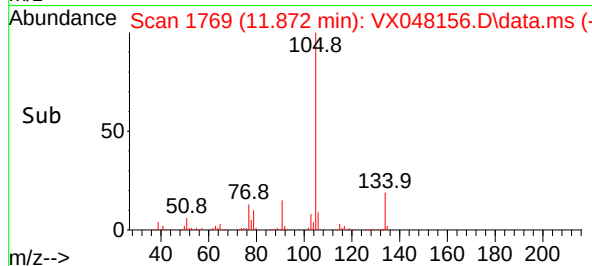
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01



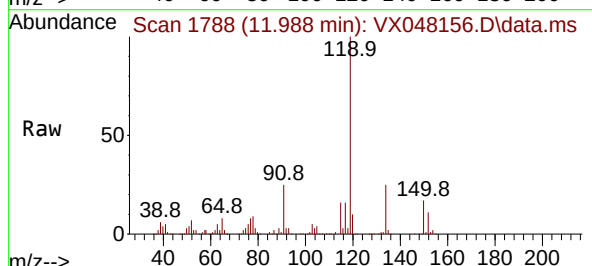
Tgt Ion:105 Resp: 156752
Ion Ratio Lower Upper
105 100
134 19.9 9.8 29.5

Manual Integrations
APPROVED

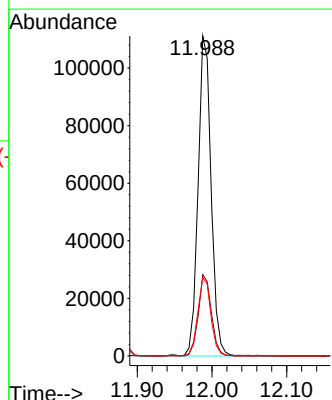
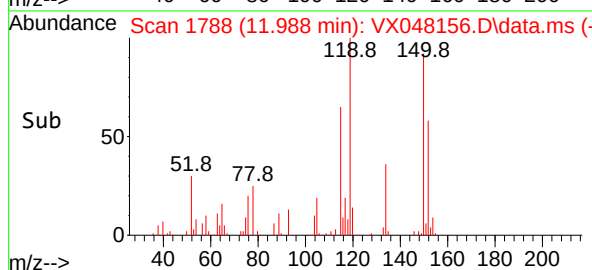
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

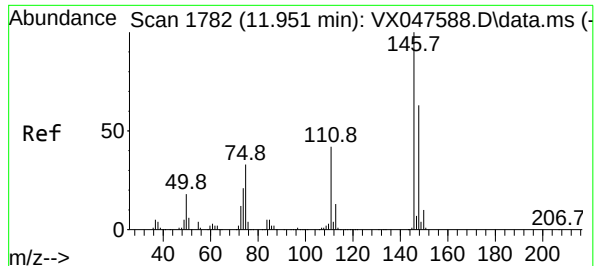


#86
p-Isopropyltoluene
Concen: 18.484 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20



Tgt Ion:119 Resp: 134054
Ion Ratio Lower Upper
119 100
134 25.3 12.6 37.8
91 24.9 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 18.048 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

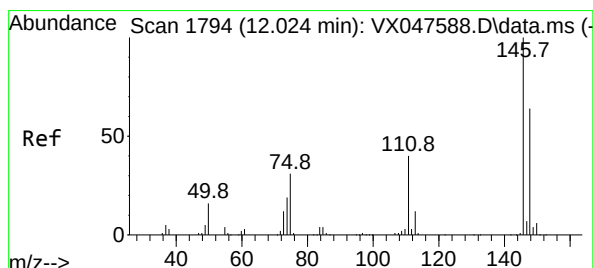
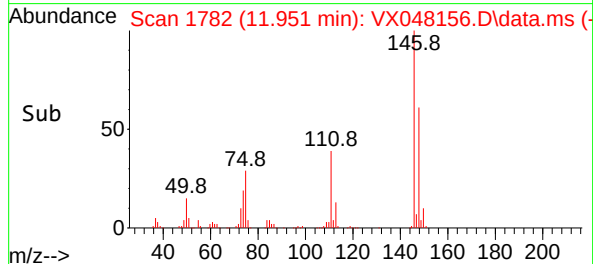
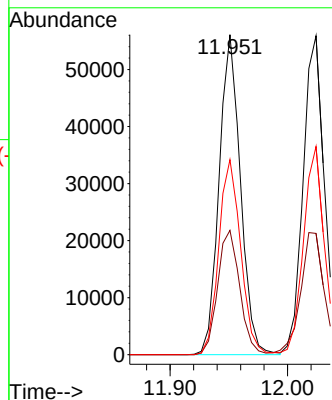
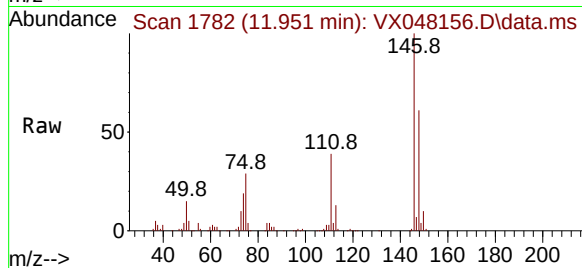
Tgt Ion:146	Resp:	7080
Ion Ratio	Lower	Upper
146	100	
111	40.3	21.5 64.5
148	62.7	32.0 96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#88

1,4-Dichlorobenzene

Concen: 17.655 ug/l

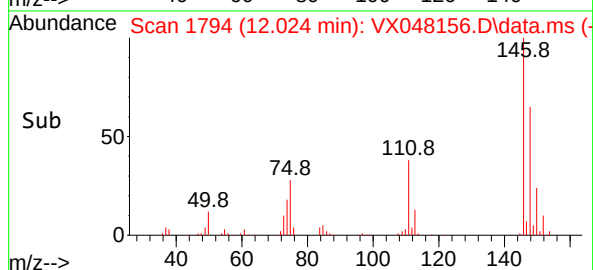
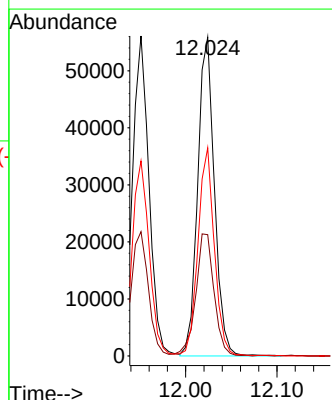
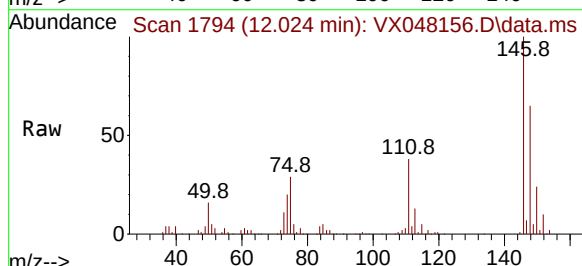
RT: 12.024 min Scan# 1794

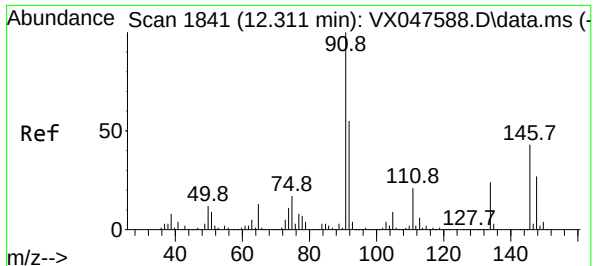
Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Tgt Ion:146	Resp:	71083
Ion Ratio	Lower	Upper
146	100	
111	42.1	20.8 62.4
148	63.7	31.7 95.1





#89

n-Butylbenzene

Concen: 17.656 ug/l

RT: 12.311 min Scan# 1841

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

Tgt Ion: 91 Resp: 11848

Ion Ratio Lower Upper

91 100

92 53.9 27.6 82.7

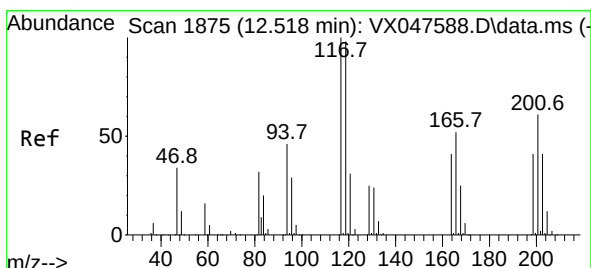
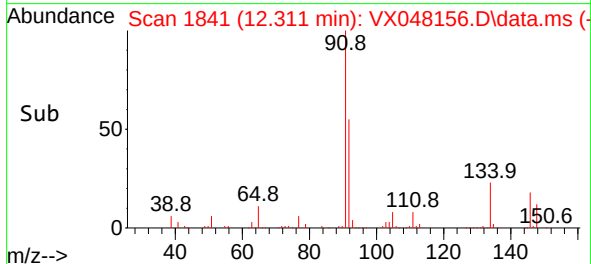
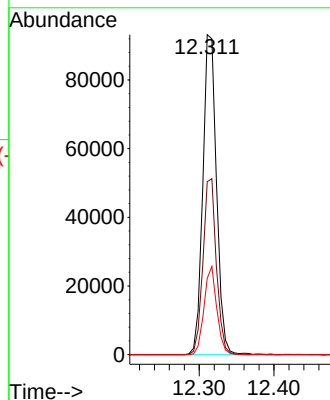
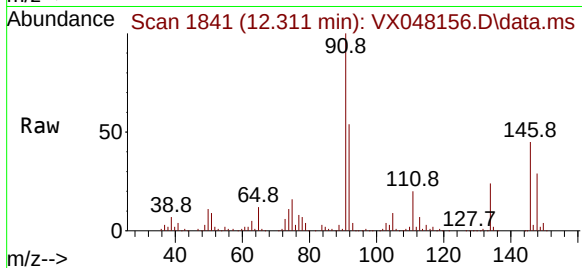
134 25.6 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#90

Hexachloroethane

Concen: 20.189 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX048156.D

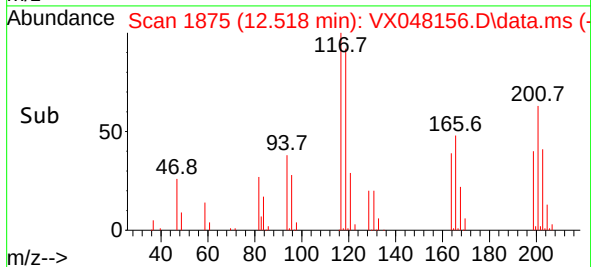
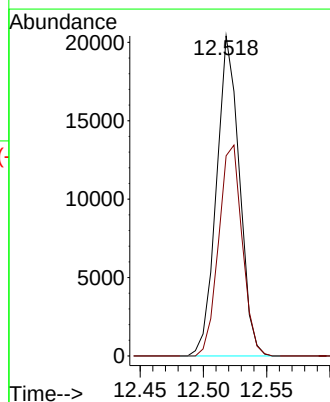
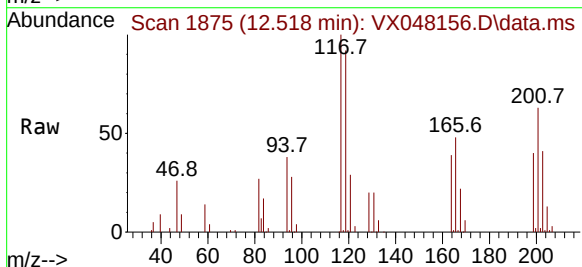
Acq: 14 Oct 2025 11:20

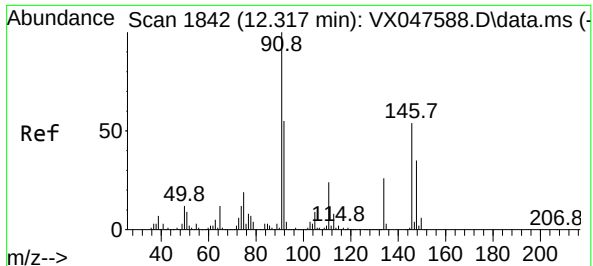
Tgt Ion:117 Resp: 25707

Ion Ratio Lower Upper

117 100

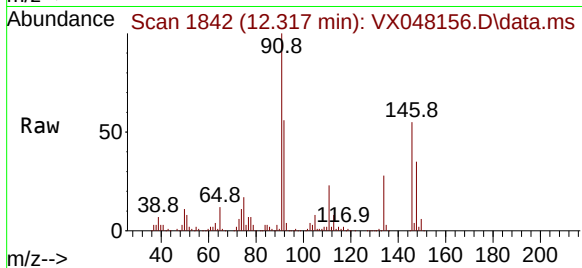
201 67.7 34.2 102.5





#91
1,2-Dichlorobenzene
Concen: 17.504 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

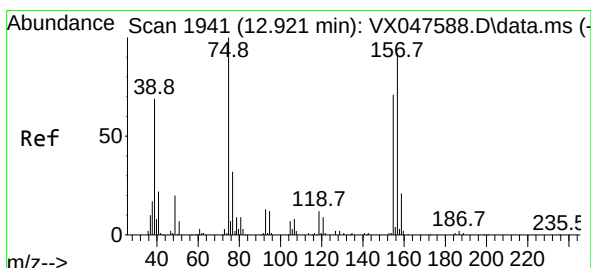
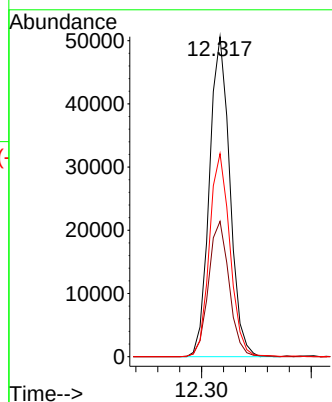
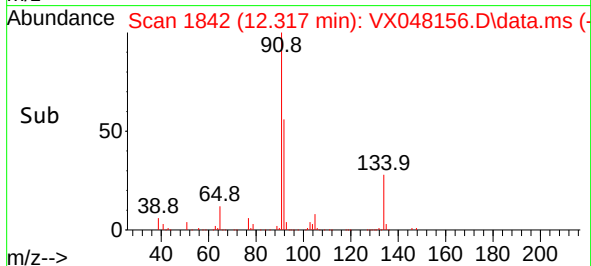
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01



Tgt Ion:146 Resp: 65420
Ion Ratio Lower Upper
146 100
111 42.9 22.2 66.6
148 64.2 31.8 95.4

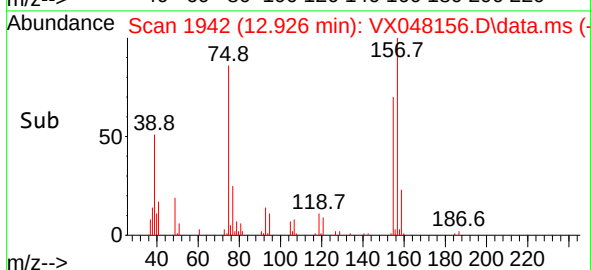
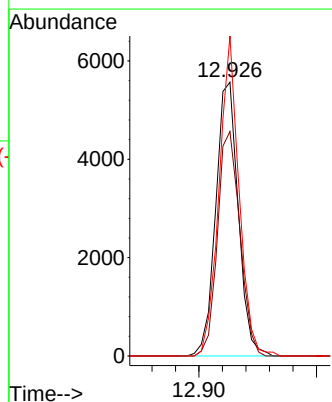
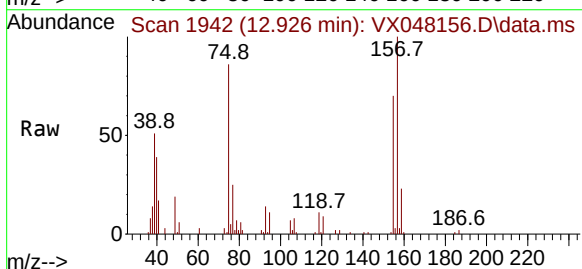
Manual Integrations
APPROVED

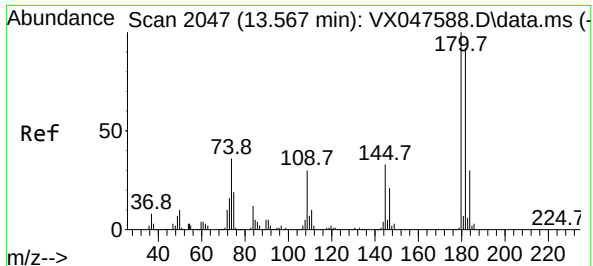
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 14.120 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

Tgt Ion: 75 Resp: 7417
Ion Ratio Lower Upper
75 100
155 81.5 37.7 113.1
157 103.4 49.8 149.4





#93

1,2,4-Trichlorobenzene

Concen: 16.119 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBS01

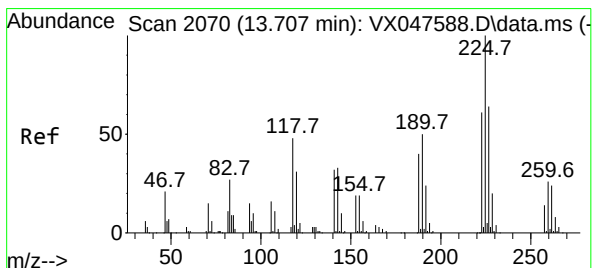
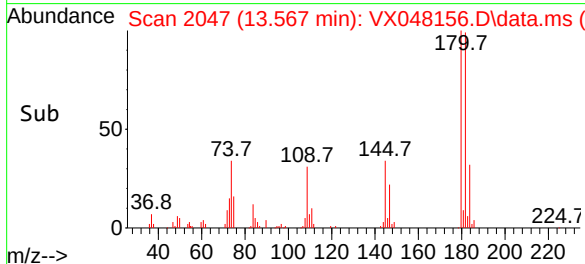
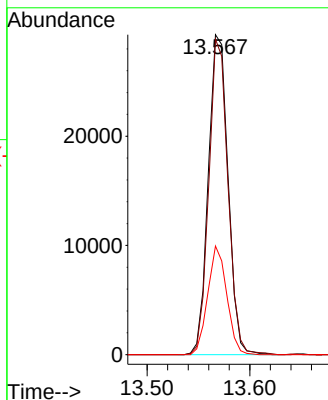
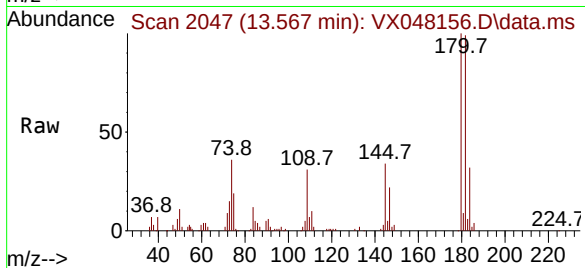
Tgt Ion:180	Resp:	3915
Ion Ratio	Lower	Upper
180	100	
182	95.7	46.6 139.8
145	32.8	16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#94

Hexachlorobutadiene

Concen: 18.915 ug/l

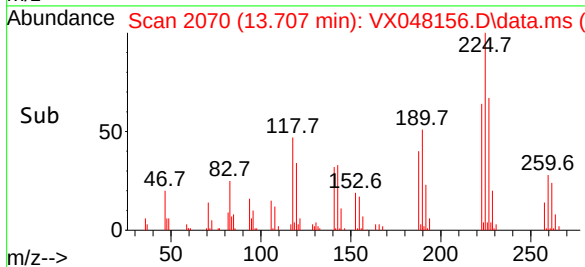
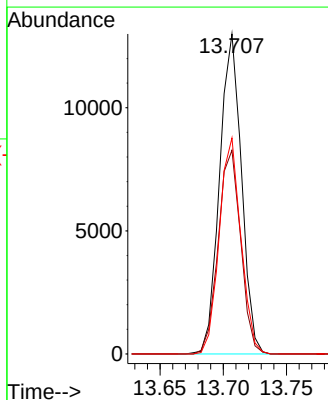
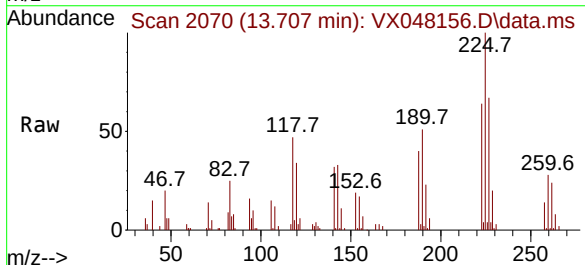
RT: 13.707 min Scan# 2070

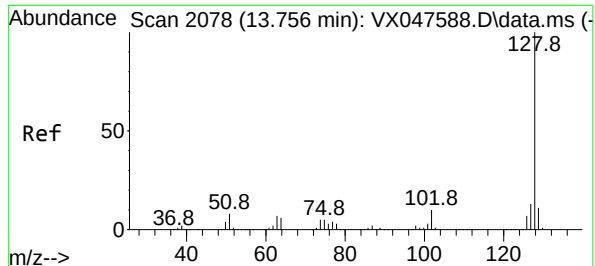
Delta R.T. -0.000 min

Lab File: VX048156.D

Acq: 14 Oct 2025 11:20

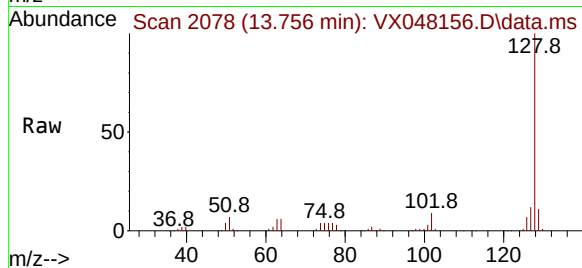
Tgt Ion:225	Resp:	15606
Ion Ratio	Lower	Upper
225	100	
223	65.1	31.7 95.1
227	66.6	32.0 96.0





#95
Naphthalene
Concen: 13.982 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20

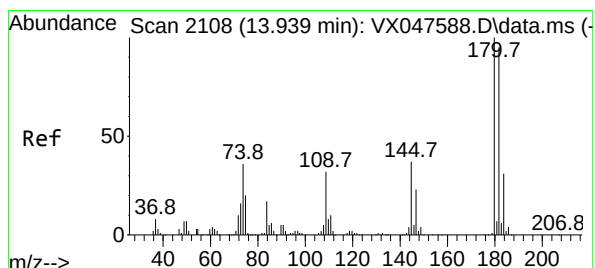
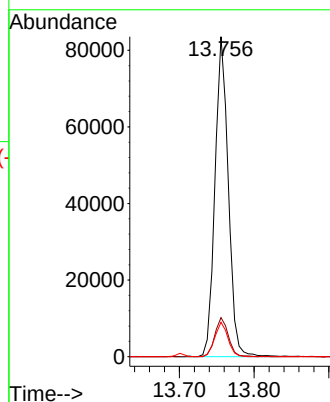
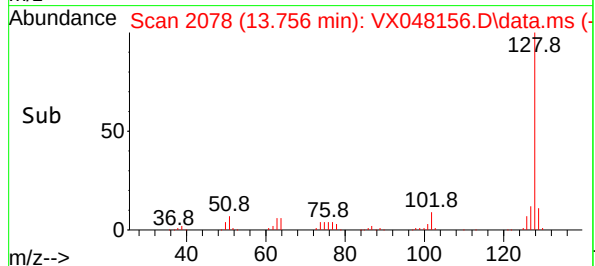
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBS01



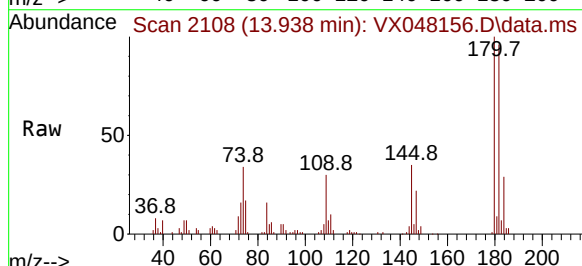
Tgt Ion:128 Resp: 103418
Ion Ratio Lower Upper
128 100
127 12.3 10.2 15.2
129 10.6 8.8 13.2

Manual Integrations
APPROVED

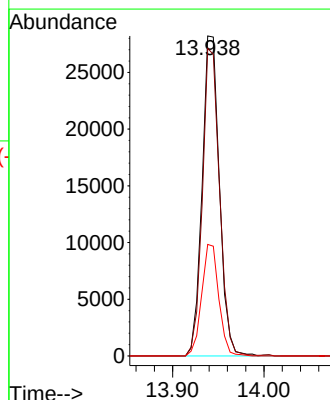
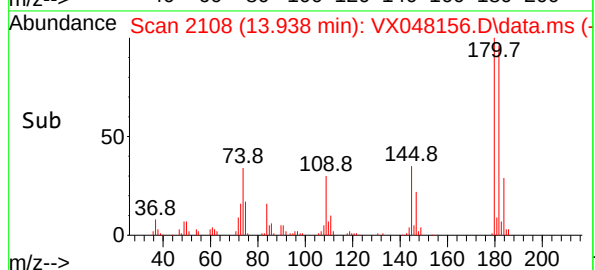
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 16.394 ug/l
RT: 13.938 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX048156.D
Acq: 14 Oct 2025 11:20



Tgt Ion:180 Resp: 37041
Ion Ratio Lower Upper
180 100
182 95.1 47.6 142.8
145 34.5 17.9 53.7



Report of Analysis

Client: Core Environmental Consultants and Services, Inc.
 Project: The Wills Building
 Client Sample ID: VX1014WBSD01
 Lab Sample ID: VX1014WBSD01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level : LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3312
 Matrix: Water
 % Solid: 0
 Test: VOC-BTEX

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
71-43-2	Benzene	20.3		1	0.15	1.00	ug/L	10/14/25 11:47	VX101425
108-88-3	Toluene	20.8		1	0.14	1.00	ug/L	10/14/25 11:47	VX101425
100-41-4	Ethyl Benzene	19.2		1	0.13	1.00	ug/L	10/14/25 11:47	VX101425
179601-23-1	m/p-Xylenes	39.9		1	0.24	2.00	ug/L	10/14/25 11:47	VX101425
95-47-6	o-Xylene	19.3		1	0.12	1.00	ug/L	10/14/25 11:47	VX101425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	44.3			74 - 125	89%	SPK: 50		
1868-53-7	Dibromofluoromethane	54.1			75 - 124	108%	SPK: 50		
2037-26-5	Toluene-d8	52.2			86 - 113	104%	SPK: 50		
460-00-4	4-Bromofluorobenzene	54.7			77 - 121	109%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	131000							
540-36-3	1,4-Difluorobenzene	213000							
3114-55-4	Chlorobenzene-d5	201000							
3855-82-1	1,4-Dichlorobenzene-d4	107000							

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\VX101425\
 Data File : VX048157.D
 Acq On : 14 Oct 2025 11:47
 Operator : JC/MD
 Sample : VX1014WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1014WBSD01

Manual Integrations APPROVED

Reviewed By : John Carlone 10/15/2025
 Supervised By : Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 02:41:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.531	168	130530	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	213217	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	200566	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	106639	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.934	65	92038	44.298	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	88.600%
35) Dibromofluoromethane	5.367	113	77345	54.089	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	108.180%
50) Toluene-d8	8.635	98	258374	52.219	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	104.440%
62) 4-Bromofluorobenzene	11.061	95	102670	54.675	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	109.360%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.179	85	29476	21.807	ug/l	94
3) Chloromethane	1.300	50	32046	18.039	ug/l	98
4) Vinyl Chloride	1.380	62	33071	19.018	ug/l	97
5) Bromomethane	1.617	94	20708	18.780	ug/l	99
6) Chloroethane	1.697	64	18547	15.958	ug/l	98
7) Trichlorofluoromethane	1.898	101	47096	18.240	ug/l	99
8) Diethyl Ether	2.136	74	14507	13.735	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.337	101	29464	19.516	ug/l	99
10) Methyl Iodide	2.453	142	33428	14.197	ug/l	99
11) Tert butyl alcohol	2.940	59	14374	62.117	ug/l	99
12) 1,1-Dichloroethene	2.325	96	28376	18.297	ug/l	95
13) Acrolein	2.233	56	13742	64.444	ug/l	97
14) Allyl chloride	2.666	41	47286	14.776	ug/l	96
15) Acrylonitrile	3.056	53	65253	76.130	ug/l	99
16) Acetone	2.373	43	56532	62.577	ug/l	95
17) Carbon Disulfide	2.514	76	84341	19.866	ug/l	99
18) Methyl Acetate	2.697	43	26071	12.967	ug/l	96
19) Methyl tert-butyl Ether	3.105	73	89682	15.841	ug/l	100
20) Methylene Chloride	2.788	84	32653	17.076	ug/l	94
21) trans-1,2-Dichloroethene	3.087	96	30136	18.049	ug/l	93
22) Diisopropyl ether	3.751	45	102369	16.506	ug/l	99
23) Vinyl Acetate	3.709	43	375976	75.744	ug/l	98
24) 1,1-Dichloroethane	3.605	63	57257	17.369	ug/l	99
25) 2-Butanone	4.538	43	79711	70.737	ug/l	98
26) 2,2-Dichloropropane	4.458	77	47984	17.511	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	36523	17.862	ug/l	97
28) Bromochloromethane	4.885	49	26087	18.127	ug/l	91
29) Tetrahydrofuran	4.989	42	47915	70.682	ug/l	97
30) Chloroform	5.080	83	61094	18.340	ug/l	93
31) Cyclohexane	5.458	56	51644	18.810	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	53496	18.933	ug/l	99
36) 1,1-Dichloropropene	5.678	75	42143	20.169	ug/l	98
37) Ethyl Acetate	4.696	43	33480	14.965	ug/l #	96
38) Carbon Tetrachloride	5.666	117	48003	21.144	ug/l	96
39) Methylcyclohexane	7.366	83	50477	21.282	ug/l	94
40) Benzene	6.019	78	128511	20.250	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101425\
 Data File : VX048157.D
 Acq On : 14 Oct 2025 11:47
 Operator : JC/MD
 Sample : VX1014WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1014WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/15/2025
 Supervised By : Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 02:41:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.897	41	17825	15.433	ug/l	96
42) 1,2-Dichloroethane	6.068	62	45254	18.741	ug/l	97
43) Isopropyl Acetate	6.318	43	57277	15.610	ug/l	97
44) Trichloroethene	7.110	130	32450	21.150	ug/l	94
45) 1,2-Dichloropropane	7.409	63	31425	19.338	ug/l	96
46) Dibromomethane	7.568	93	22506	19.032	ug/l	93
47) Bromodichloromethane	7.805	83	48507	19.878	ug/l	97
48) Methyl methacrylate	7.677	41	29284	16.022	ug/l	97
49) 1,4-Dioxane	7.641	88	6785	367.338	ug/l	95
51) 4-Methyl-2-Pentanone	8.555	43	168280	82.718	ug/l	100
52) Toluene	8.702	92	81287	20.790	ug/l	98
53) t-1,3-Dichloropropene	8.964	75	46963	18.867	ug/l	98
54) cis-1,3-Dichloropropene	8.348	75	51810	19.474	ug/l	98
55) 1,1,2-Trichloroethane	9.134	97	30344	20.127	ug/l	99
56) Ethyl methacrylate	9.098	69	41227	17.412	ug/l	95
57) 1,3-Dichloropropane	9.293	76	52323	20.203	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.226	63	89842	86.784	ug/l	96
59) 2-Hexanone	9.415	43	113847	77.919	ug/l	95
60) Dibromochloromethane	9.506	129	37625	21.659	ug/l	99
61) 1,2-Dibromoethane	9.592	107	31923	20.788	ug/l	99
64) Tetrachloroethene	9.256	164	29991	22.938	ug/l	96
65) Chlorobenzene	10.061	112	90122	19.779	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.146	131	31973	20.335	ug/l	98
67) Ethyl Benzene	10.177	91	151137	19.224	ug/l	100
68) m/p-Xylenes	10.287	106	116808	39.917	ug/l	97
69) o-Xylene	10.622	106	54569	19.280	ug/l	96
70) Styrene	10.640	104	95353	19.227	ug/l	98
71) Bromoform	10.780	173	24382	20.768	ug/l #	98
73) Isopropylbenzene	10.945	105	143591	17.711	ug/l	98
74) N-amyl acetate	10.823	43	50968	13.786	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.195	83	41095	16.754	ug/l	99
76) 1,2,3-Trichloropropane	11.219	75	39683m	18.379	ug/l	
77) Bromobenzene	11.183	156	36590	18.324	ug/l	93
78) n-propylbenzene	11.286	91	172966	18.047	ug/l	99
79) 2-Chlorotoluene	11.347	91	104052	17.726	ug/l	98
80) 1,3,5-Trimethylbenzene	11.433	105	120053	18.024	ug/l	97
81) trans-1,4-Dichloro-2-b...	11.000	75	11963	14.130	ug/l	99
82) 4-Chlorotoluene	11.439	91	123395	17.799	ug/l	99
83) tert-Butylbenzene	11.695	119	119295	17.495	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	121604	18.007	ug/l	99
85) sec-Butylbenzene	11.872	105	148790	18.371	ug/l	100
86) p-Isopropyltoluene	11.994	119	127115	18.539	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	67962	18.324	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	69178	18.173	ug/l	98
89) n-Butylbenzene	12.317	91	114516	18.049	ug/l	98
90) Hexachloroethane	12.518	117	24591	20.427	ug/l	97
91) 1,2-Dichlorobenzene	12.317	146	63752	18.042	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	7433	14.967	ug/l	94
93) 1,2,4-Trichlorobenzene	13.567	180	38659	16.834	ug/l	98
94) Hexachlorobutadiene	13.707	225	15799	20.254	ug/l	98
95) Naphthalene	13.756	128	102780	14.698	ug/l	99
96) 1,2,3-Trichlorobenzene	13.945	180	36384	17.032	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101425\
Data File : VX048157.D
Acq On : 14 Oct 2025 11:47
Operator : JC/MD
Sample : VX1014WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

Quant Time: Oct 15 02:41:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

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

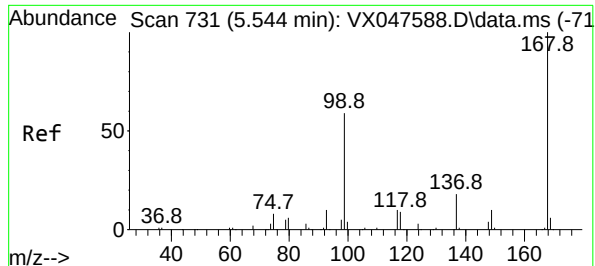
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBSD01

Manual Integrations

Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025





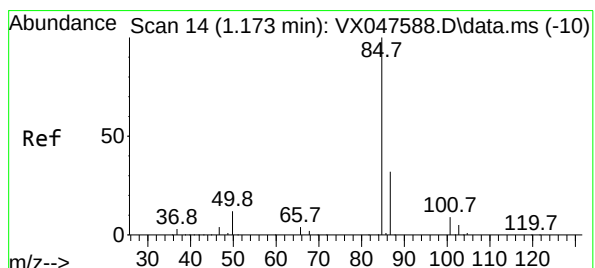
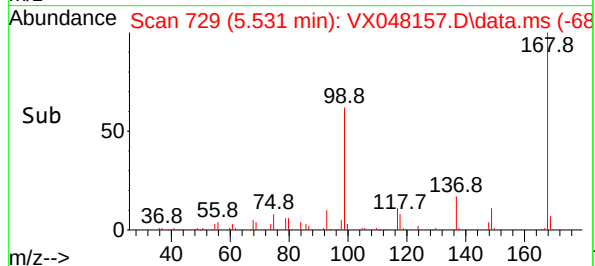
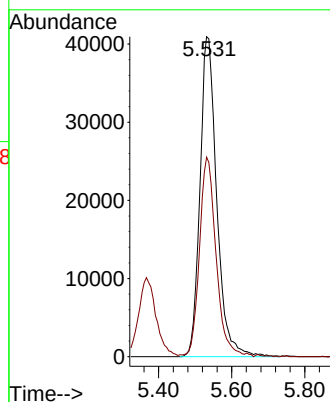
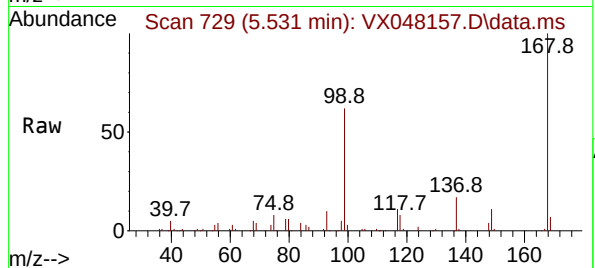
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 71
Delta R.T. -0.013 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBSD01

Tgt Ion:168 Resp: 130530
Ion Ratio Lower Upper
168 100
99 62.3 48.8 73.2

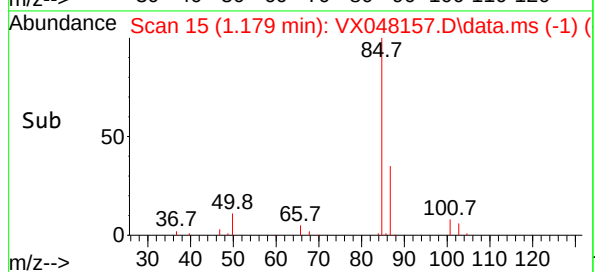
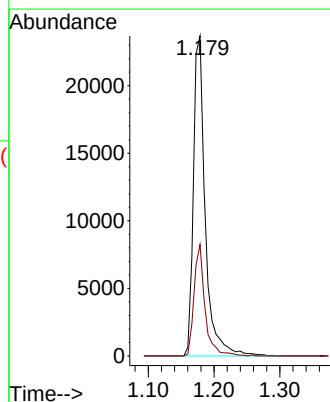
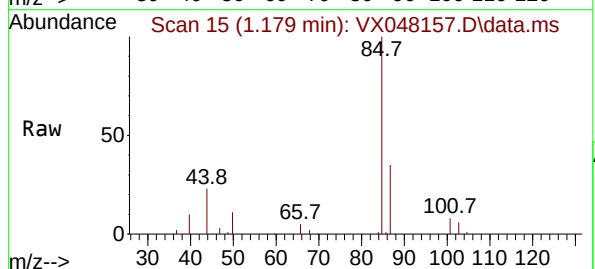
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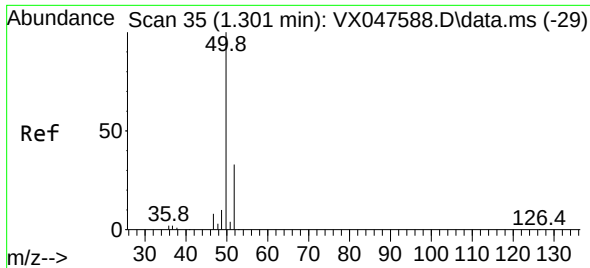
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#2
Dichlorodifluoromethane
Concen: 21.807 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

Tgt Ion: 85 Resp: 29476
Ion Ratio Lower Upper
85 100
87 34.8 15.8 47.3





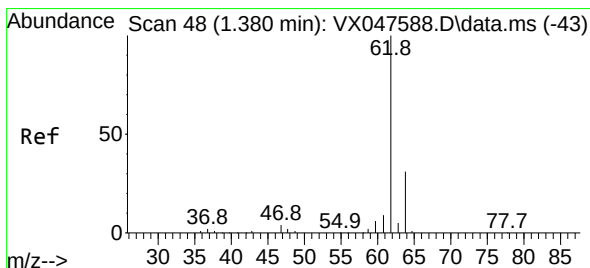
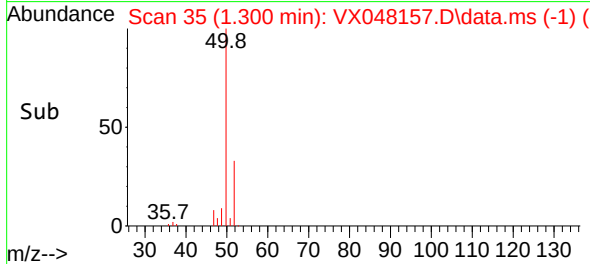
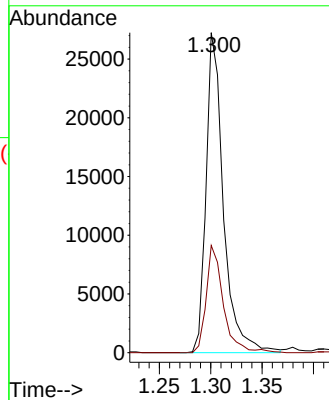
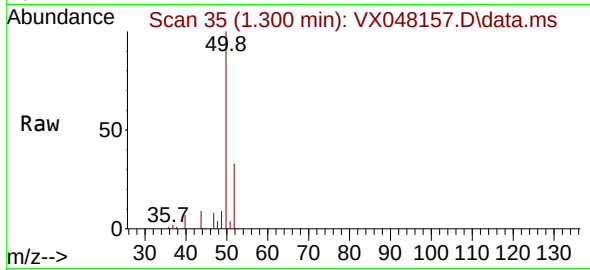
#3
Chloromethane
Concen: 18.039 ug/l
RT: 1.300 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBSD01

Tgt Ion: 50 Resp: 32040
Ion Ratio Lower Upper
50 100
52 33.5 26.1 39.1

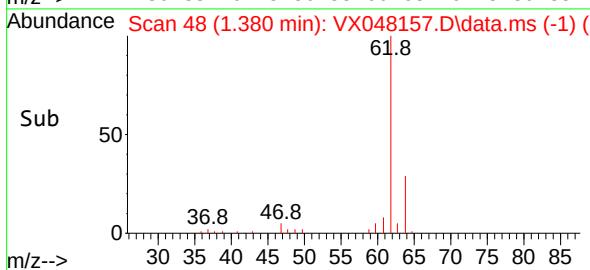
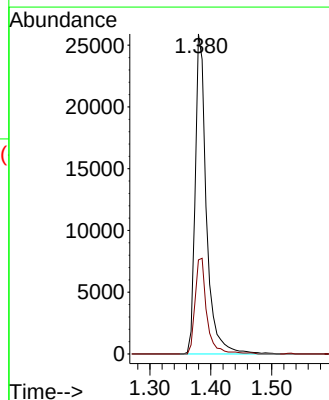
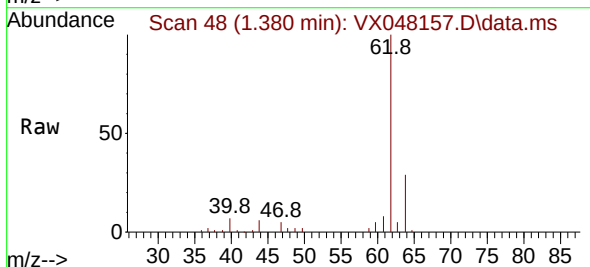
Manual Integrations
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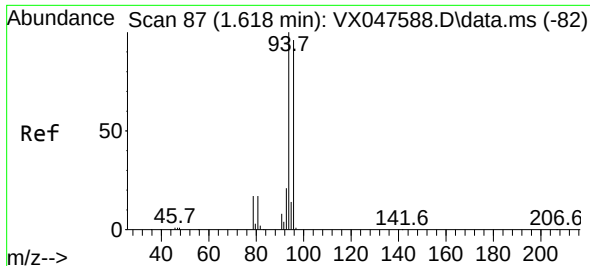
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#4
Vinyl Chloride
Concen: 19.018 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

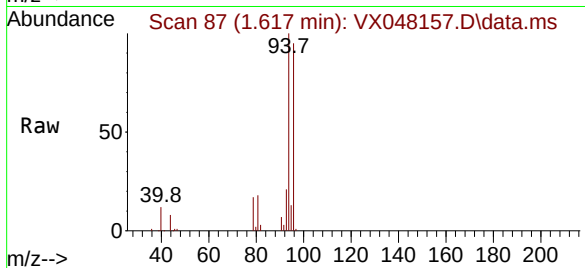
Tgt Ion: 62 Resp: 33071
Ion Ratio Lower Upper
62 100
64 29.4 24.9 37.3





#5
Bromomethane
Concen: 18.780 ug/l
RT: 1.617 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

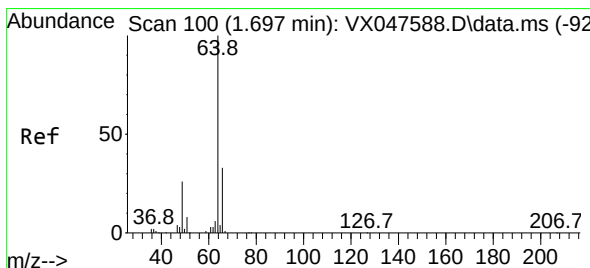
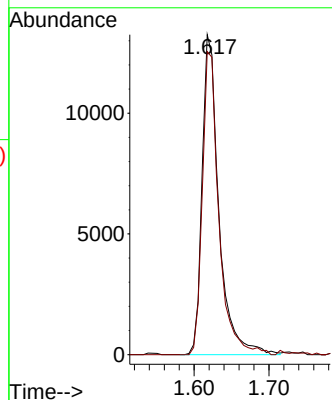
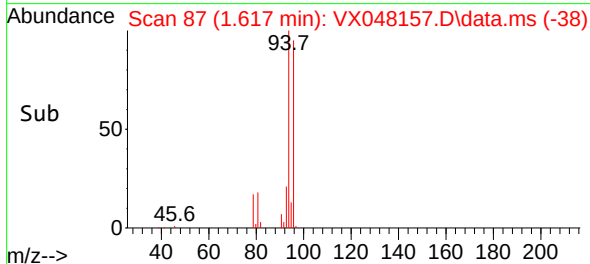
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBSD01



Tgt Ion: 94 Resp: 20708
Ion Ratio Lower Upper
94 100
96 94.7 76.6 115.0

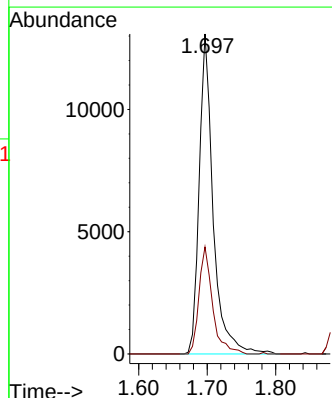
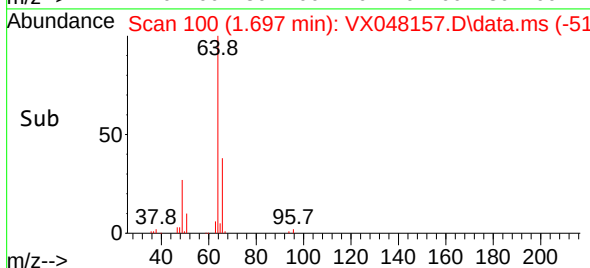
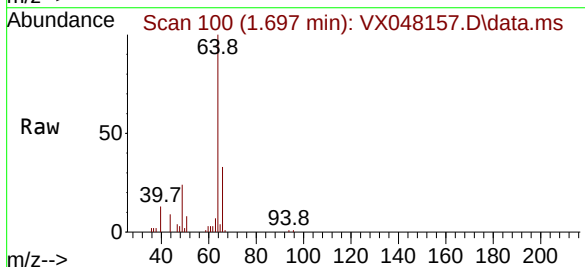
Manual Integrations
APPROVED

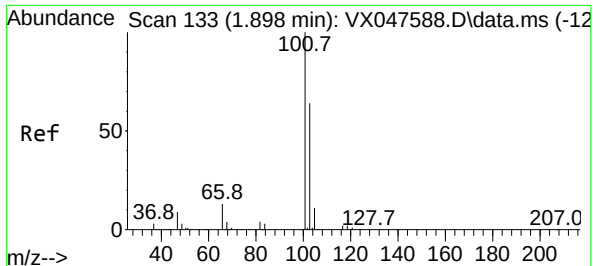
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#6
Chloroethane
Concen: 15.958 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

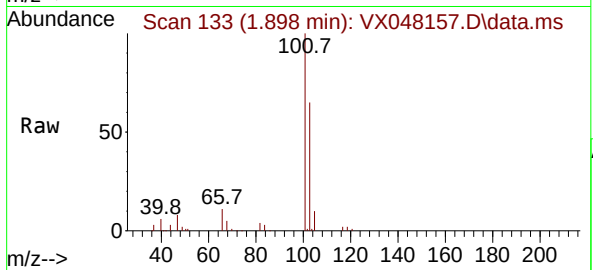
Tgt Ion: 64 Resp: 18547
Ion Ratio Lower Upper
64 100
66 33.4 26.1 39.1





#7
Trichlorofluoromethane
Concen: 18.240 ug/l
RT: 1.898 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

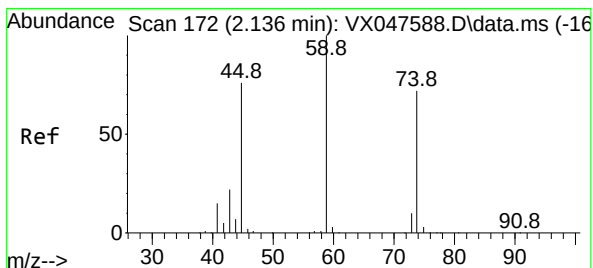
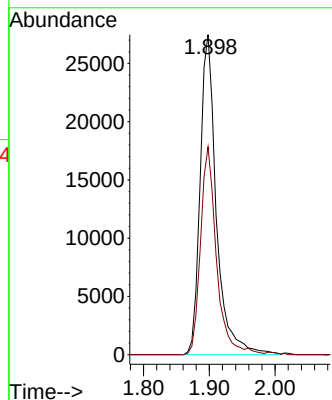
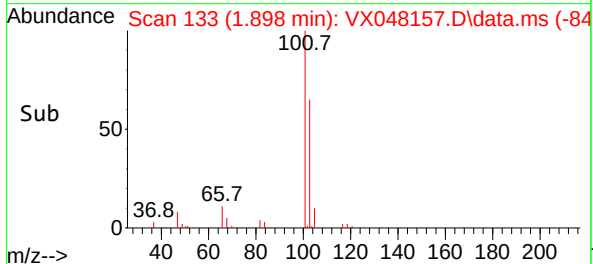
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBSD01



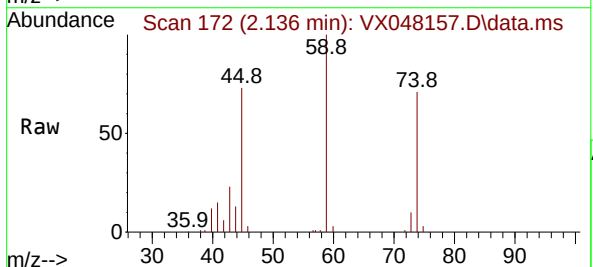
Tgt Ion:101 Resp: 47090
Ion Ratio Lower Upper
101 100
103 65.0 51.4 77.2

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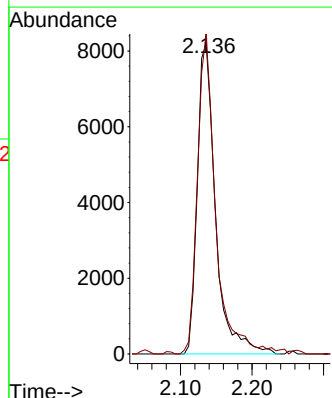
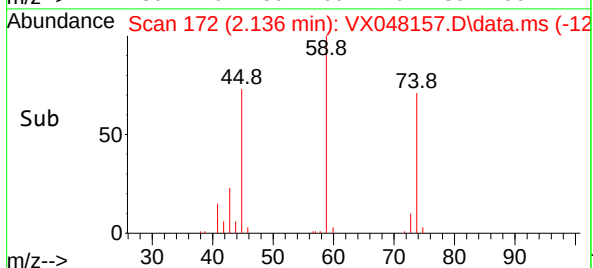
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

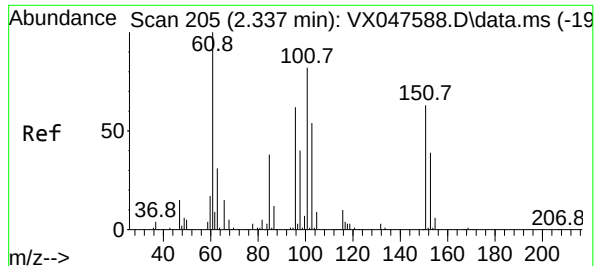


#8
Diethyl Ether
Concen: 13.735 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47



Tgt Ion: 74 Resp: 14507
Ion Ratio Lower Upper
74 100
45 103.6 52.3 156.8





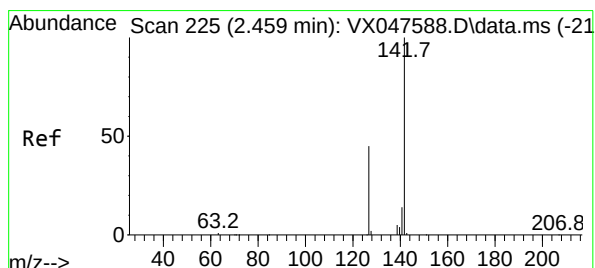
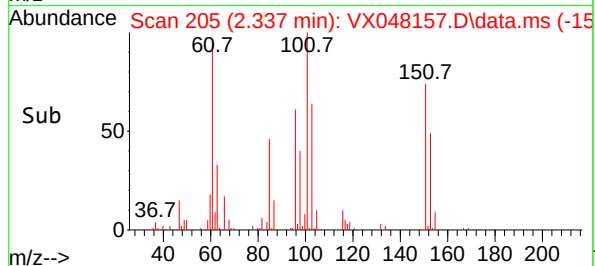
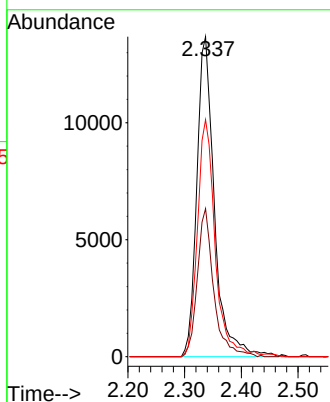
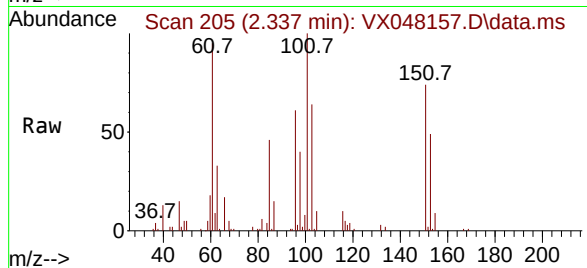
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.516 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBSD01

Tgt Ion	Ratio	Lower	Upper
101	100		
85	43.2	35.5	53.3
151	74.7	59.4	89.0

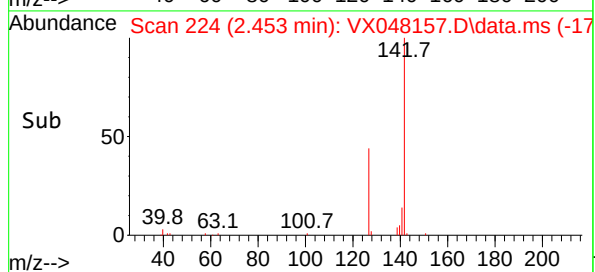
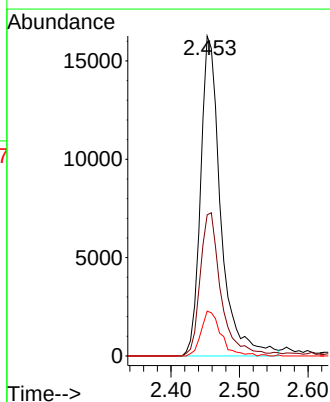
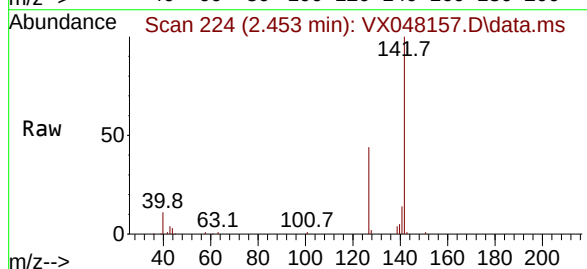
Manual Integrations
APPROVED

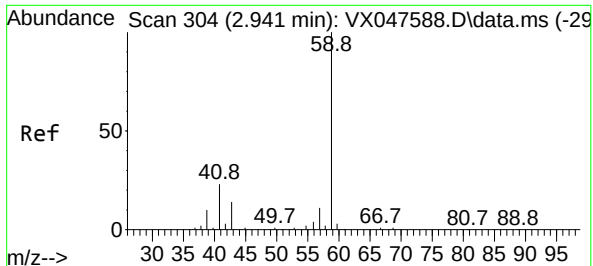
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#10
Methyl Iodide
Concen: 14.197 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

Tgt Ion	Ratio	Lower	Upper
142	100		
127	46.0	37.2	55.8
141	13.9	11.4	17.0





#11

Tert butyl alcohol

Concen: 62.117 ug/l

RT: 2.940 min Scan# 304

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion: 59 Resp: 14374

Ion Ratio Lower Upper

59 100

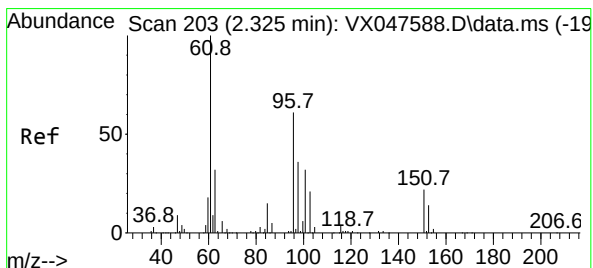
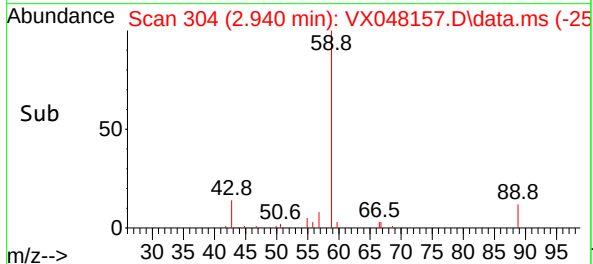
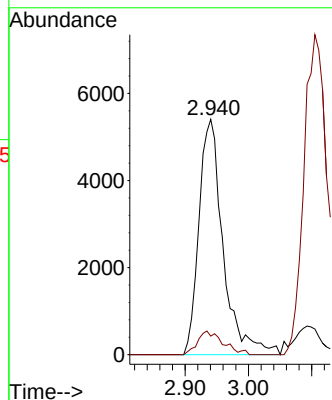
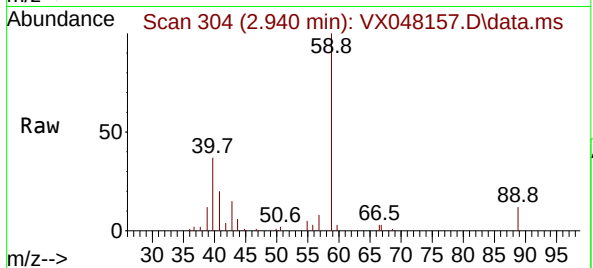
57 10.6 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#12

1,1-Dichloroethene

Concen: 18.297 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

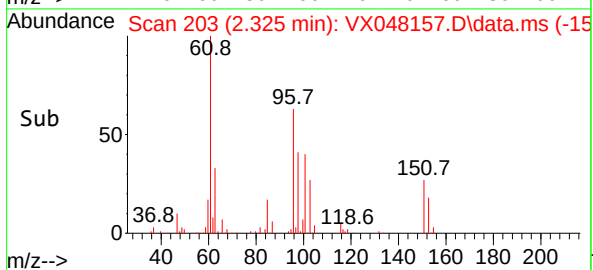
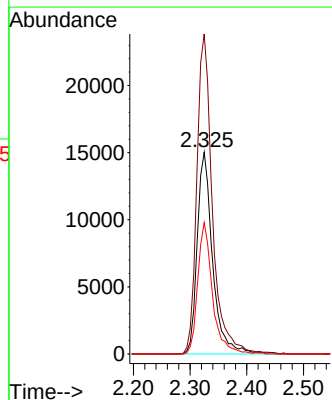
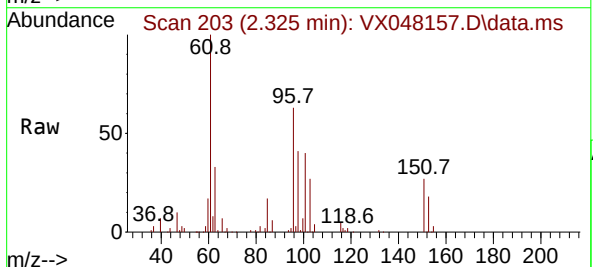
Tgt Ion: 96 Resp: 28376

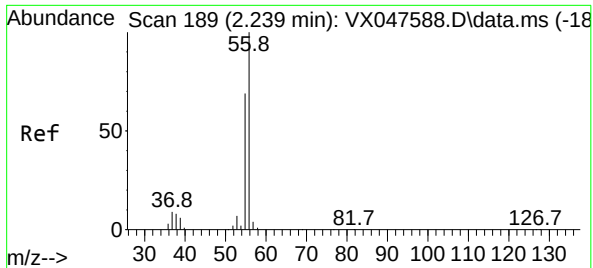
Ion Ratio Lower Upper

96 100

61 158.7 131.0 196.6

98 65.2 47.7 71.5





#13

Acrolein

Concen: 64.444 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion: 56 Resp: 1374

Ion Ratio Lower Upper

56 100

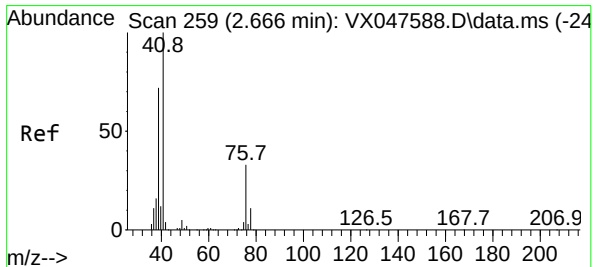
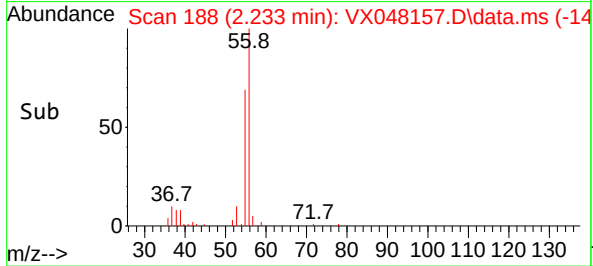
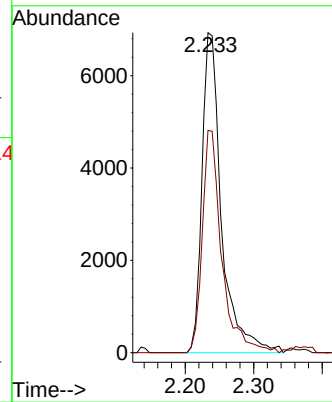
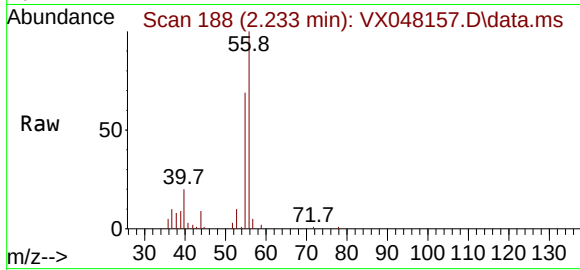
55 69.2 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#14

Allyl chloride

Concen: 14.776 ug/l

RT: 2.666 min Scan# 259

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

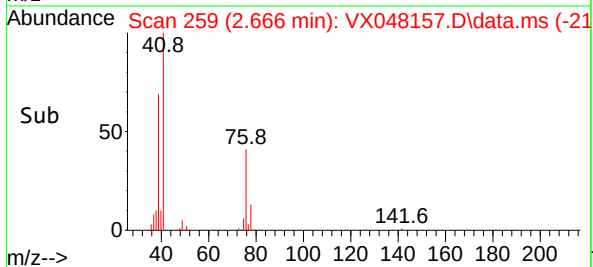
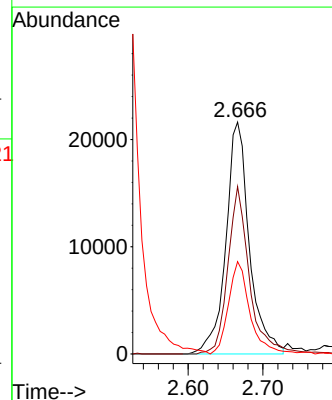
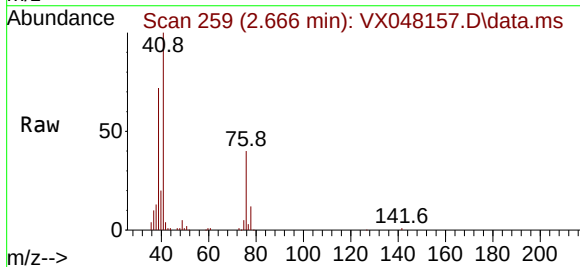
Tgt Ion: 41 Resp: 47286

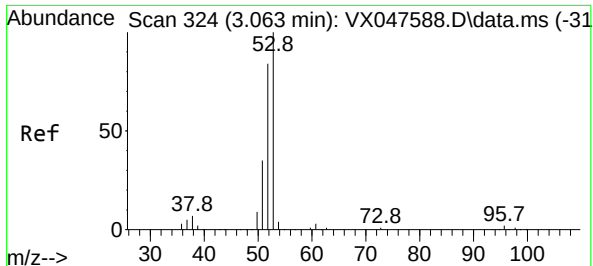
Ion Ratio Lower Upper

41 100

39 66.6 54.7 82.1

76 36.3 25.7 38.5





#15

Acrylonitrile

Concen: 76.130 ug/l

RT: 3.056 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

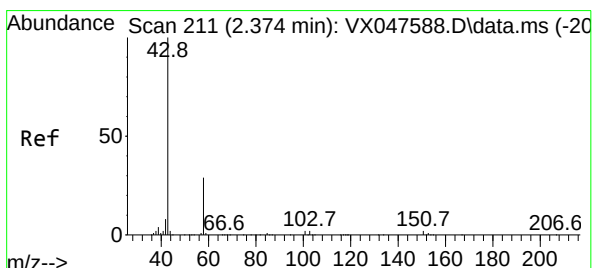
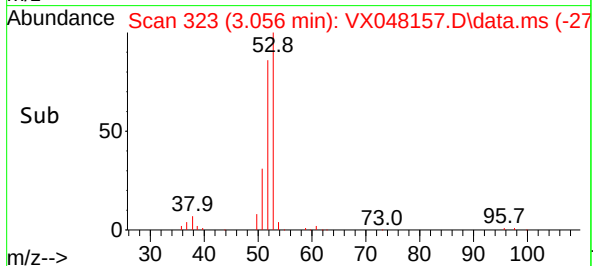
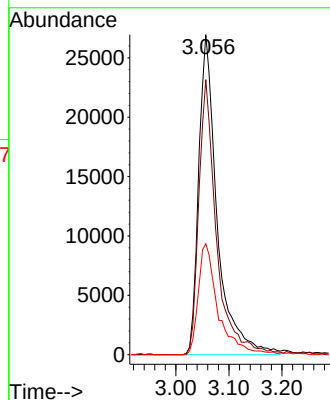
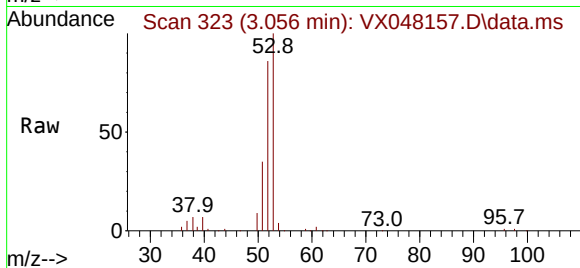
VX1014WBSD01

Tgt Ion:	53	Resp:	6525
Ion	Ratio	Lower	Upper
53	100		
52	82.0	66.4	99.6
51	37.6	29.5	44.3

Manual Integrations
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Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#16

Acetone

Concen: 62.577 ug/l

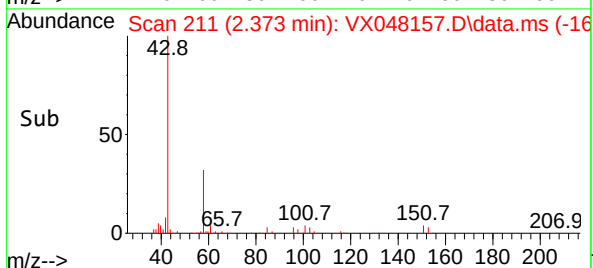
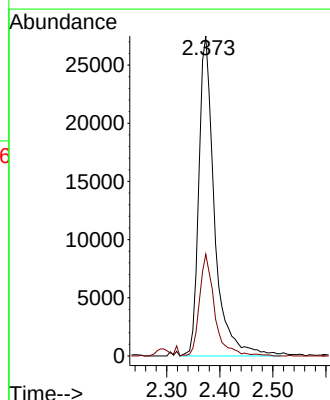
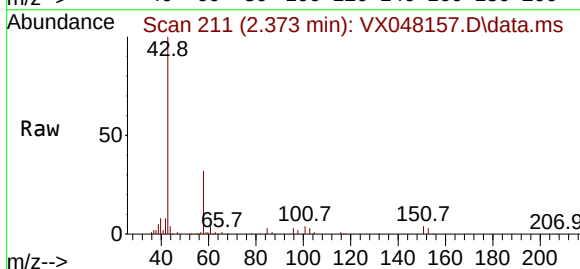
RT: 2.373 min Scan# 211

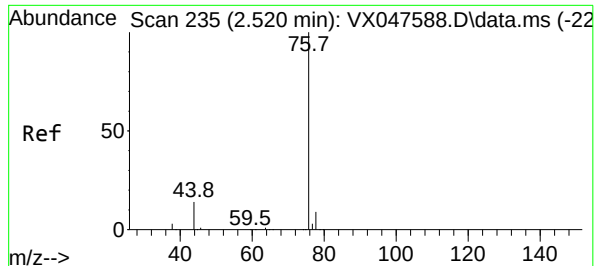
Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Tgt Ion:	43	Resp:	56532
Ion	Ratio	Lower	Upper
43	100		
58	32.0	23.4	35.0





#17

Carbon Disulfide

Concen: 19.866 ug/l

RT: 2.514 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion: 76 Resp: 8434

Ion Ratio Lower Upper

76 100

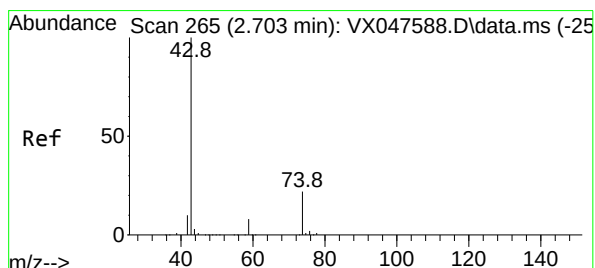
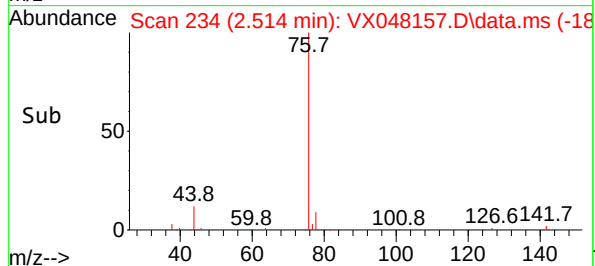
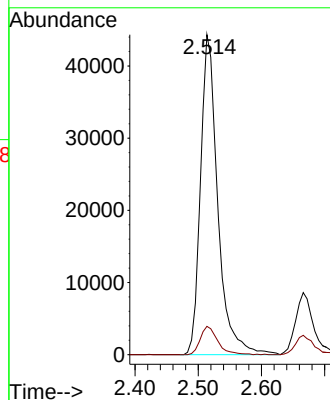
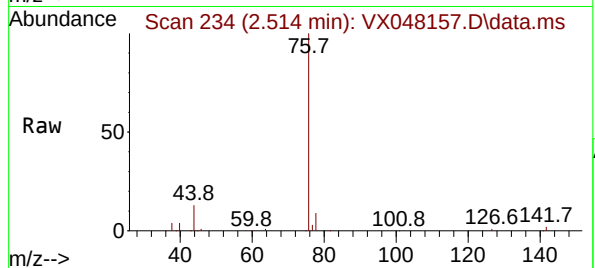
78 8.9 6.8 10.2

Manual Integrations

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Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#18

Methyl Acetate

Concen: 12.967 ug/l

RT: 2.697 min Scan# 264

Delta R.T. -0.006 min

Lab File: VX048157.D

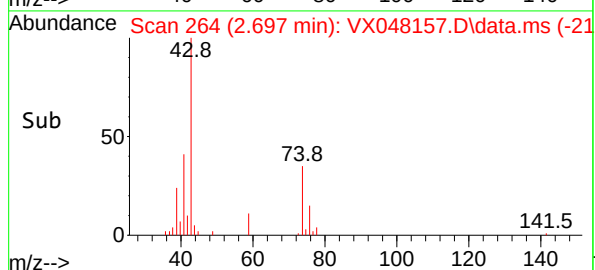
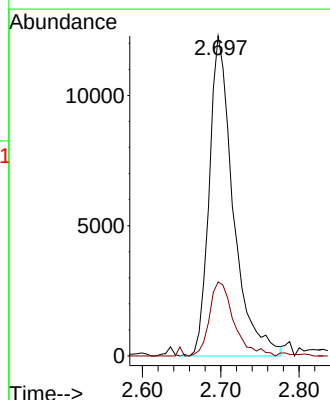
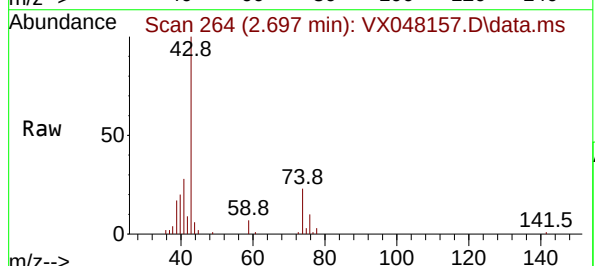
Acq: 14 Oct 2025 11:47

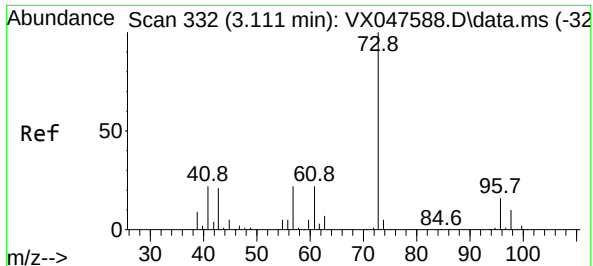
Tgt Ion: 43 Resp: 26071

Ion Ratio Lower Upper

43 100

74 23.6 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 15.841 ug/l

RT: 3.105 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion: 73 Resp: 8968

Ion Ratio Lower Upper

73 100

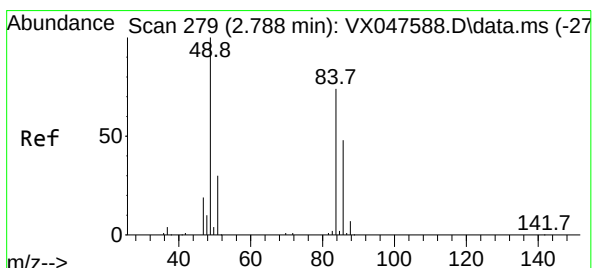
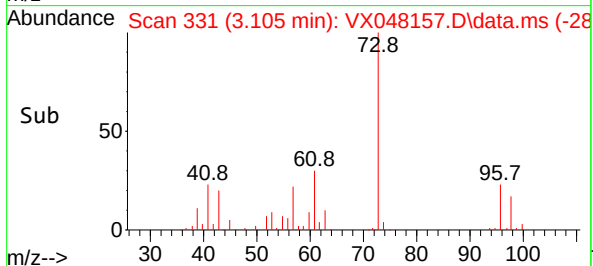
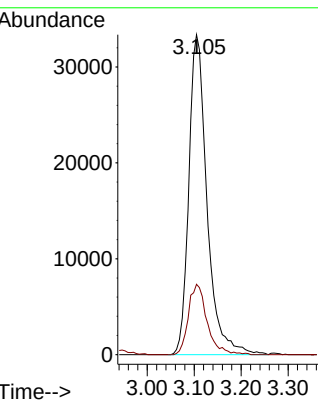
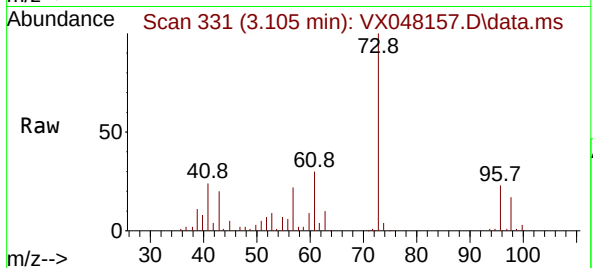
57 22.0 17.4 26.2

Manual Integrations

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Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#20

Methylene Chloride

Concen: 17.076 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Tgt Ion: 84 Resp: 32653

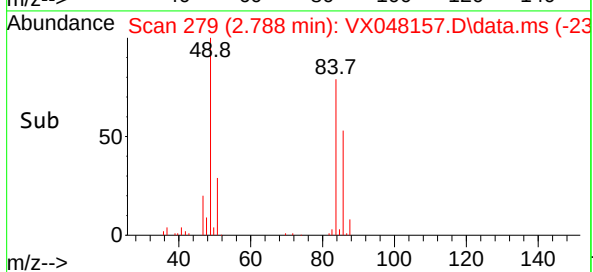
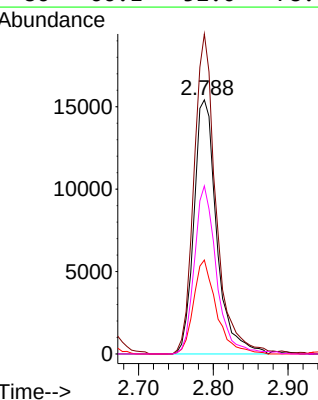
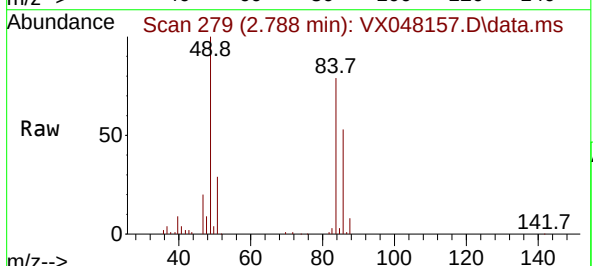
Ion Ratio Lower Upper

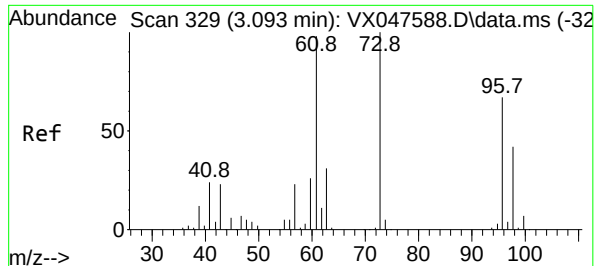
84 100

49 125.9 108.6 162.8

51 37.0 32.6 48.8

86 66.1 52.0 78.0





#21

trans-1,2-Dichloroethene

Concen: 18.049 ug/l

RT: 3.087 min Scan# 301

Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion: 96 Resp: 30130

Ion Ratio Lower Upper

96 100

61 132.5 116.2 174.2

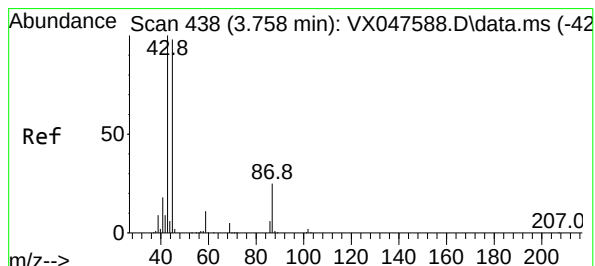
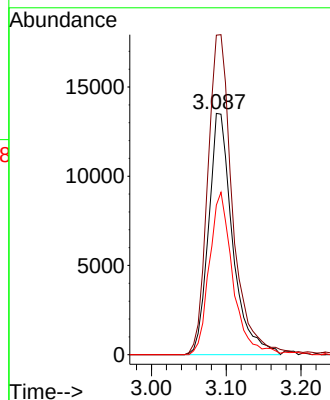
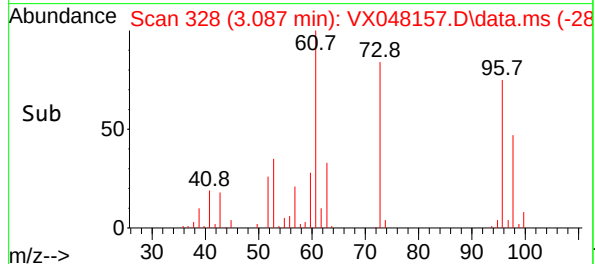
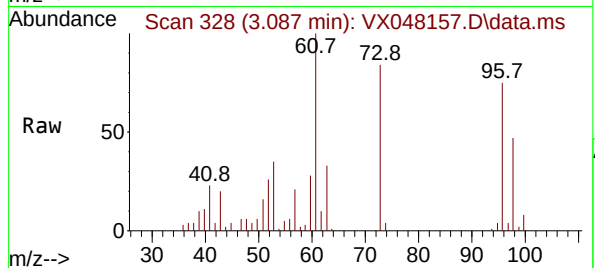
98 62.0 49.3 73.9

Manual Integrations

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Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#22

Diisopropyl ether

Concen: 16.506 ug/l

RT: 3.751 min Scan# 437

Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Tgt Ion: 45 Resp: 102369

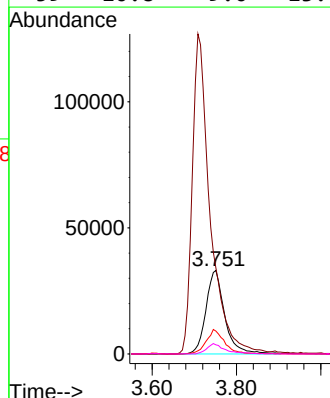
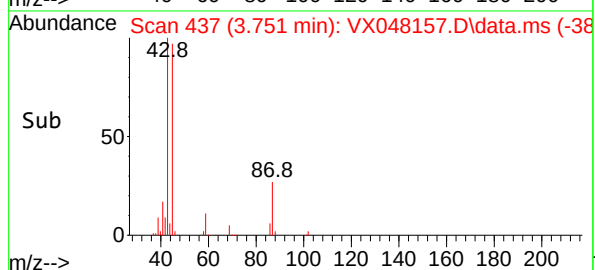
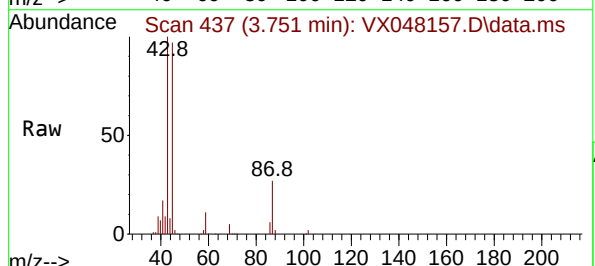
Ion Ratio Lower Upper

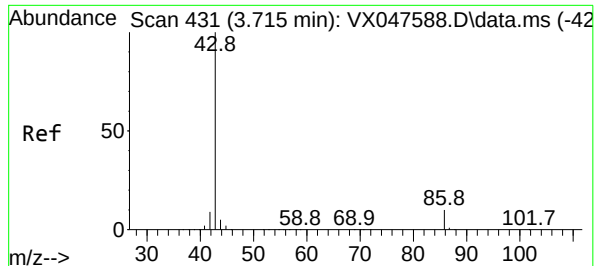
45 100

43 101.6 81.0 121.4

87 27.4 20.3 30.5

59 10.8 9.0 13.4





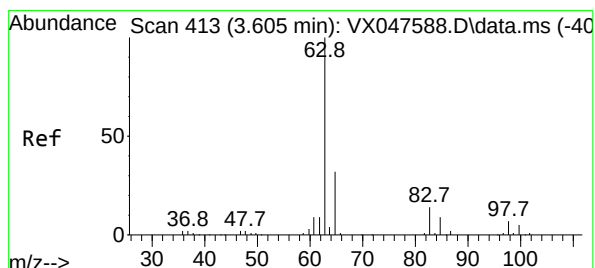
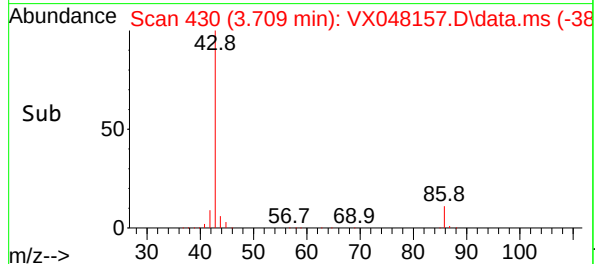
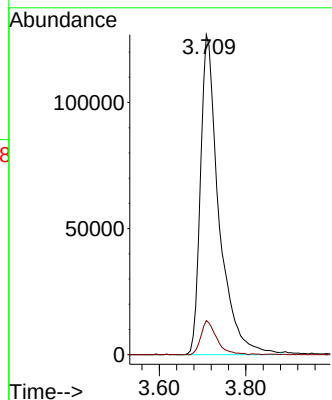
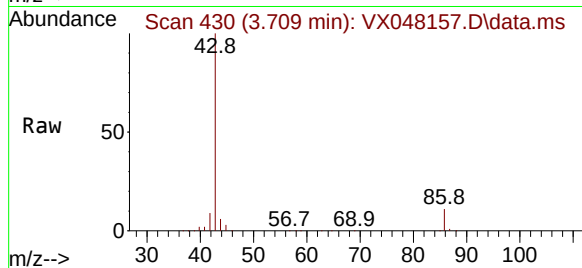
#23
 Vinyl Acetate
 Concen: 75.744 ug/l
 RT: 3.709 min Scan# 41
 Delta R.T. -0.006 min
 Lab File: VX048157.D
 Acq: 14 Oct 2025 11:47

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1014WBSD01

Tgt Ion: 43 Resp: 375970
 Ion Ratio Lower Upper
 43 100
 86 10.7 7.8 11.8

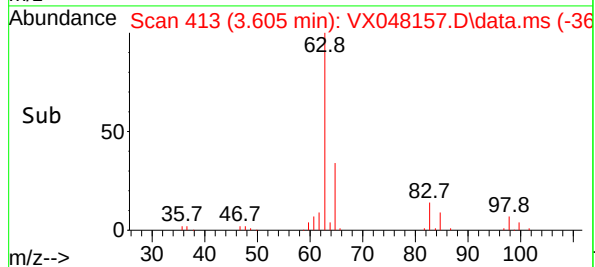
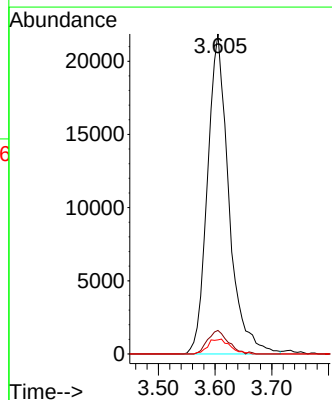
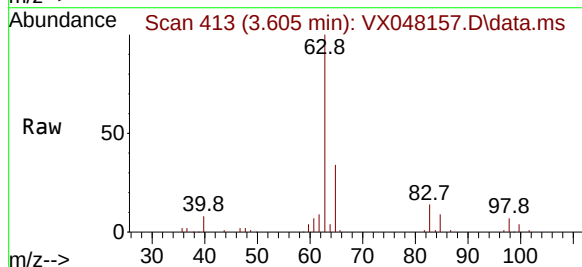
Manual Integrations
 APPROVED

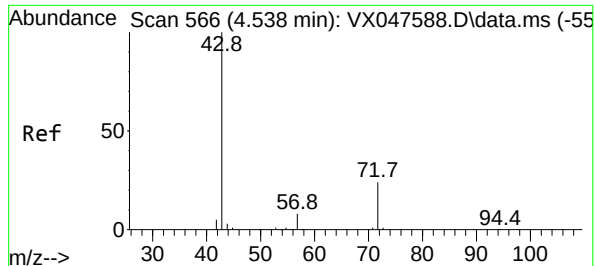
Reviewed By :John Carlone 10/15/2025
 Supervised By :Mahesh Dadoda 10/16/2025



#24
 1,1-Dichloroethane
 Concen: 17.369 ug/l
 RT: 3.605 min Scan# 413
 Delta R.T. -0.000 min
 Lab File: VX048157.D
 Acq: 14 Oct 2025 11:47

Tgt Ion: 63 Resp: 57257
 Ion Ratio Lower Upper
 63 100
 98 7.3 3.8 11.2
 100 4.4 2.3 6.9





#25

2-Butanone

Concen: 70.737 ug/l

RT: 4.538 min Scan# 50

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion: 43 Resp: 7971

Ion Ratio Lower Upper

43 100

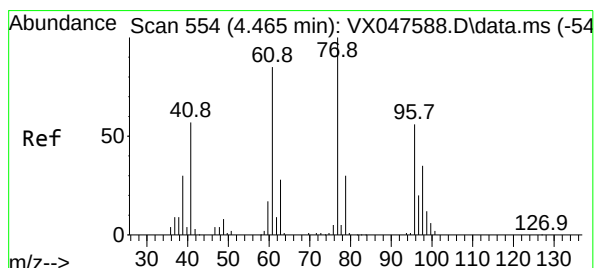
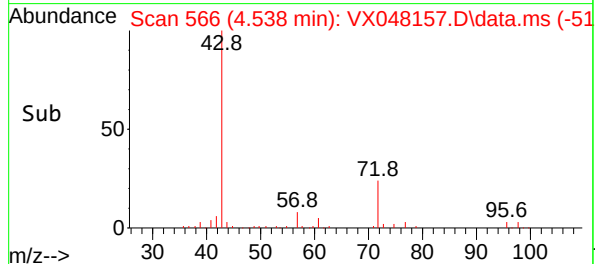
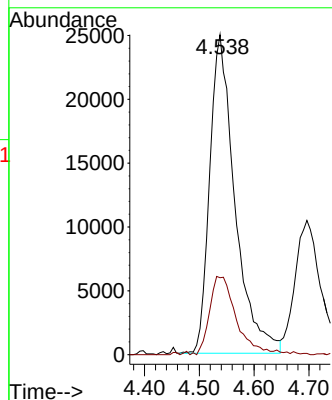
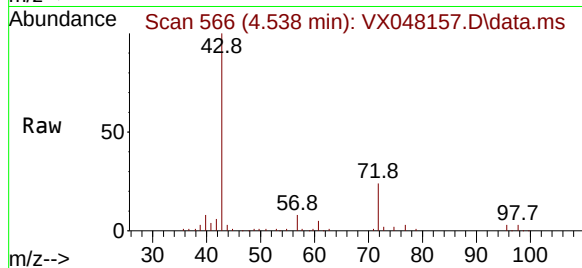
72 24.2 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#26

2,2-Dichloropropane

Concen: 17.511 ug/l

RT: 4.458 min Scan# 553

Delta R.T. -0.006 min

Lab File: VX048157.D

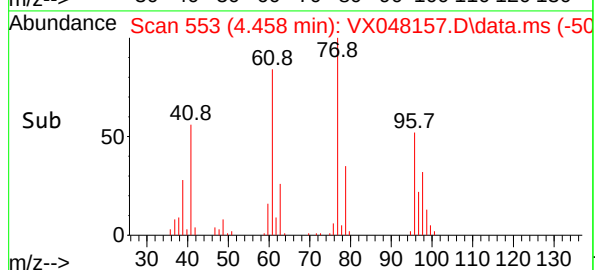
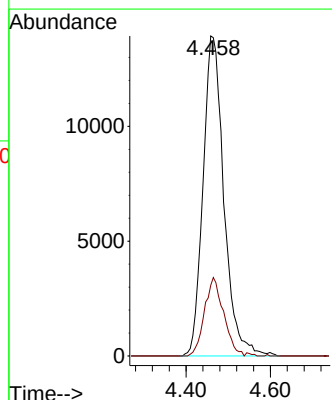
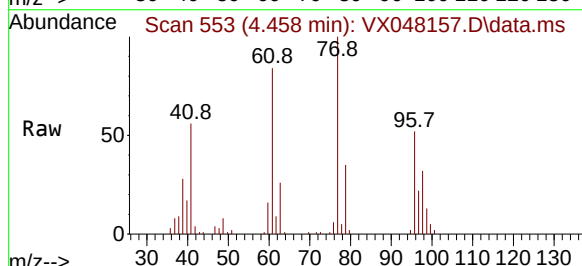
Acq: 14 Oct 2025 11:47

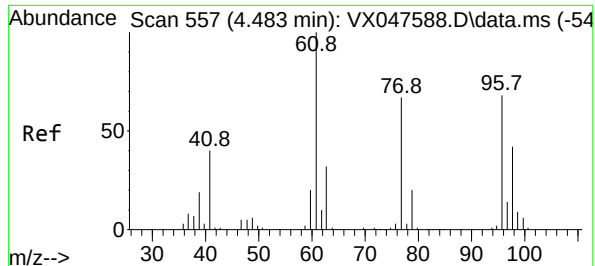
Tgt Ion: 77 Resp: 47984

Ion Ratio Lower Upper

77 100

97 22.5 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 17.862 ug/l

RT: 4.477 min Scan# 556

Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion: 96 Resp: 3652

Ion Ratio Lower Upper

96 100

61 146.5 0.0 303.2

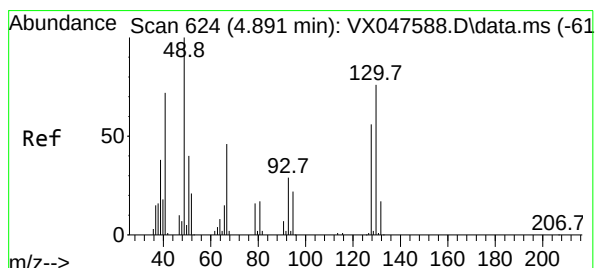
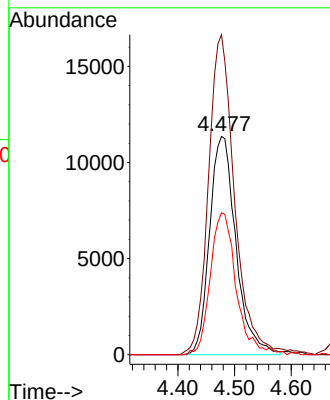
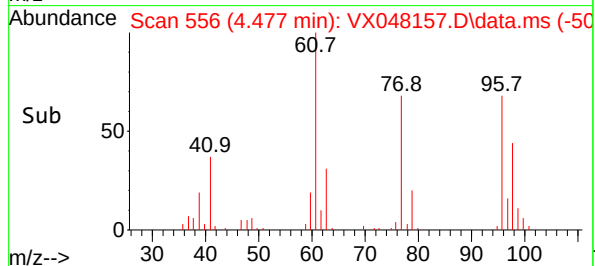
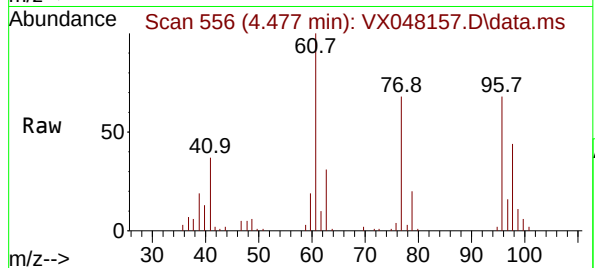
98 64.1 0.0 127.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#28

Bromochloromethane

Concen: 18.127 ug/l

RT: 4.885 min Scan# 623

Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

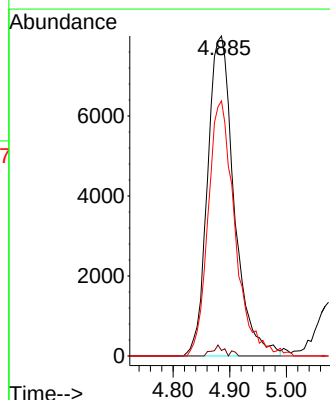
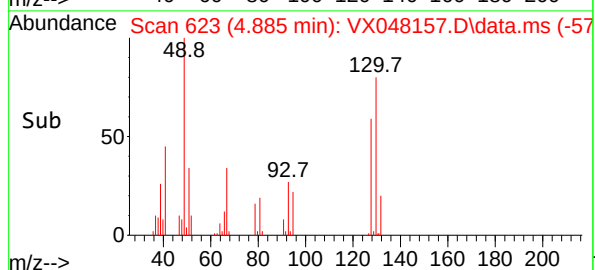
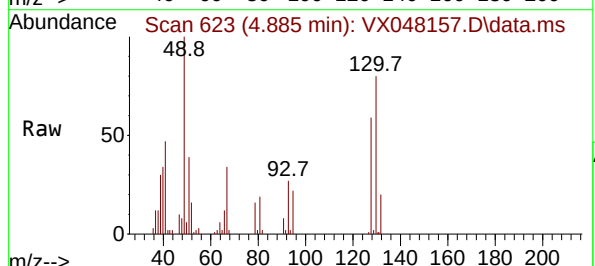
Tgt Ion: 49 Resp: 26087

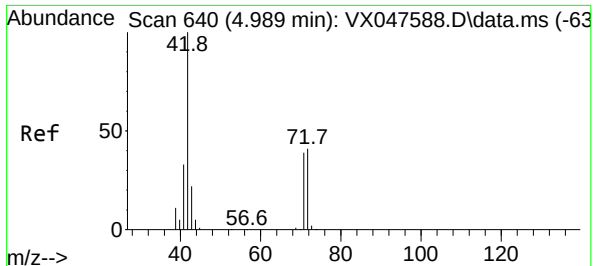
Ion Ratio Lower Upper

49 100

129 1.3 0.0 3.2

130 79.9 57.8 86.8





#29

Tetrahydrofuran

Concen: 70.682 ug/l

RT: 4.989 min Scan# 640

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

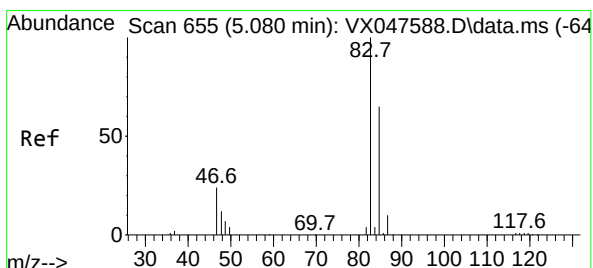
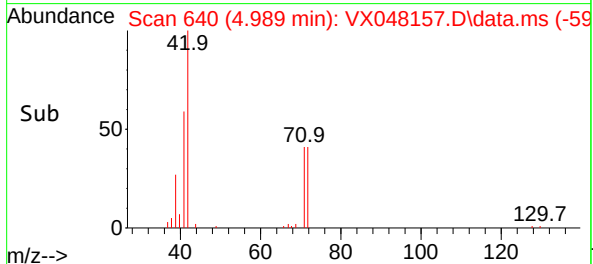
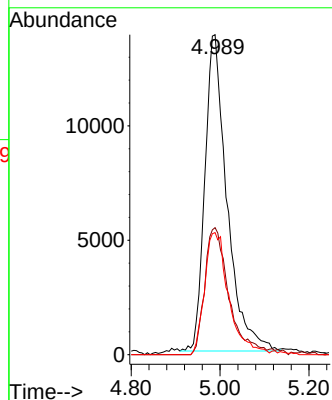
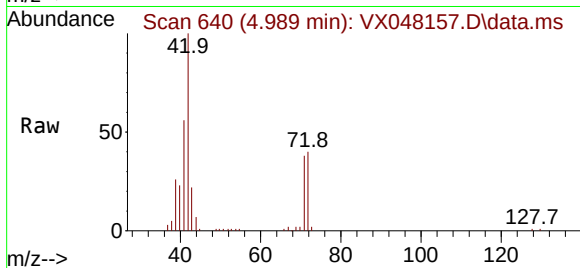
Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion:	42	Resp:	4791
Ion Ratio	Lower	Upper	
42	100		
72	43.9	34.2	51.2
71	42.1	31.9	47.9

Manual Integrations
APPROVEDReviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

#30

Chloroform

Concen: 18.340 ug/l

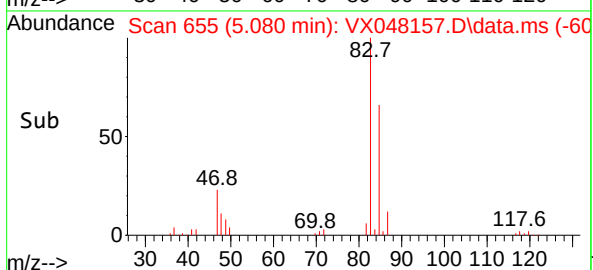
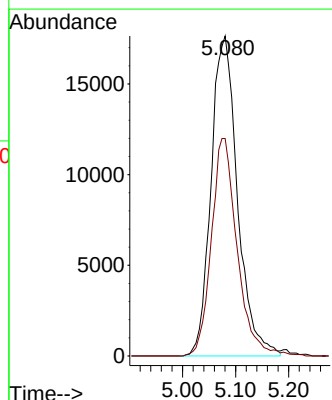
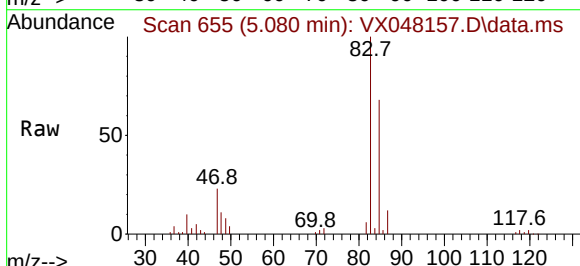
RT: 5.080 min Scan# 655

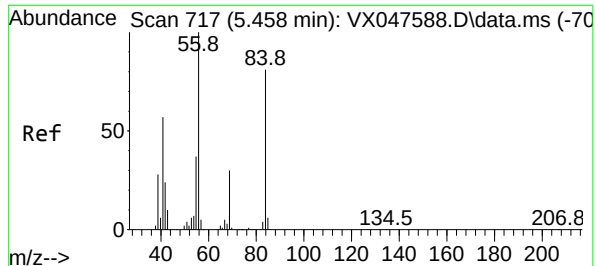
Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Tgt Ion:	83	Resp:	61094
Ion Ratio	Lower	Upper	
83	100		
85	69.9	51.8	77.6





#31

Cyclohexane

Concen: 18.810 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

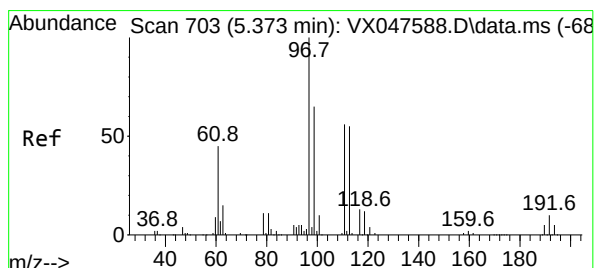
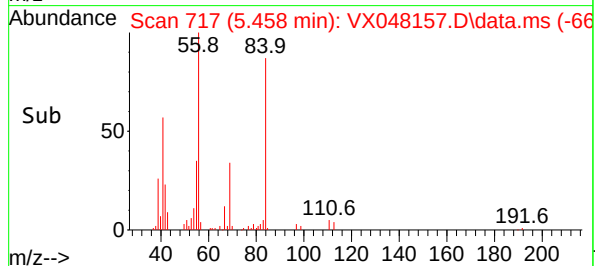
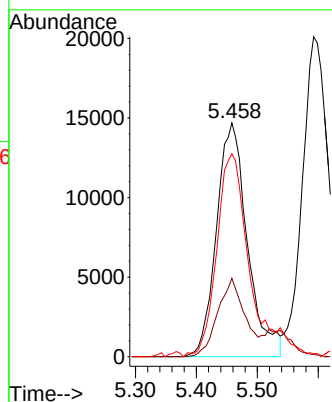
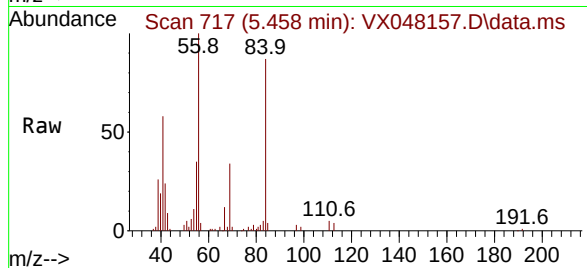
Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion:	56	Resp:	5164
Ion Ratio	Lower	Upper	
56	100		
69	32.1	23.8	35.8
84	81.8	64.6	97.0

Manual Integrations
APPROVEDReviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

#32

1,1,1-Trichloroethane

Concen: 18.933 ug/l

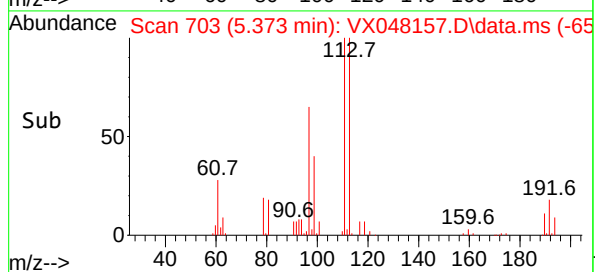
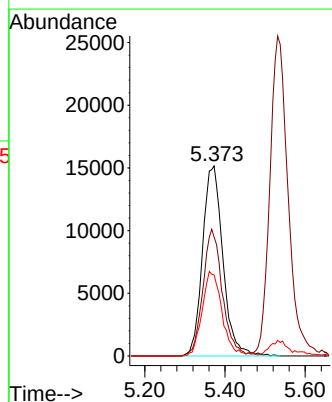
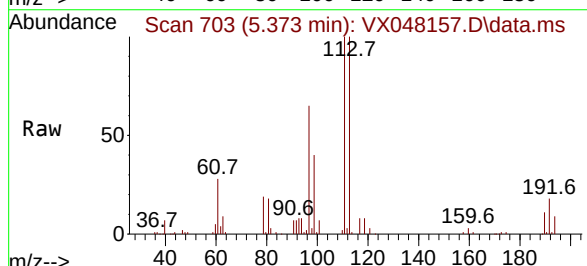
RT: 5.373 min Scan# 703

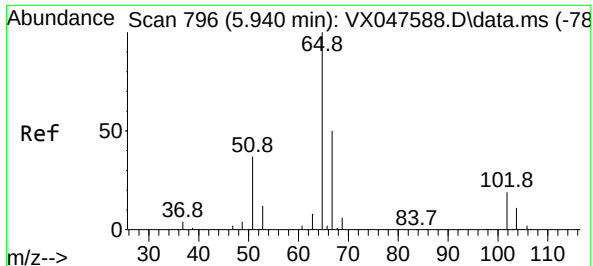
Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Tgt Ion:	97	Resp:	53496
Ion Ratio	Lower	Upper	
97	100		
99	63.0	50.6	76.0
61	43.4	35.8	53.8





#33

1,2-Dichloroethane-d4

Concen: 44.298 ug/l

RT: 5.934 min Scan# 796

Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion: 65 Resp: 92038

Ion Ratio Lower Upper

65 100

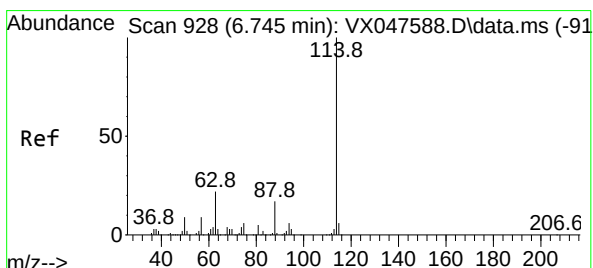
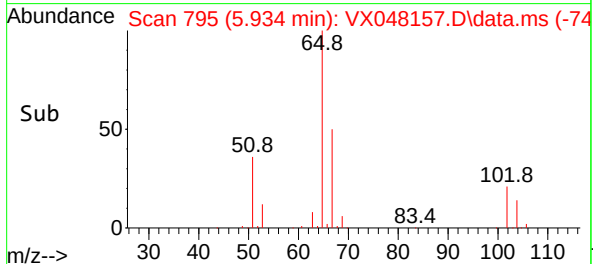
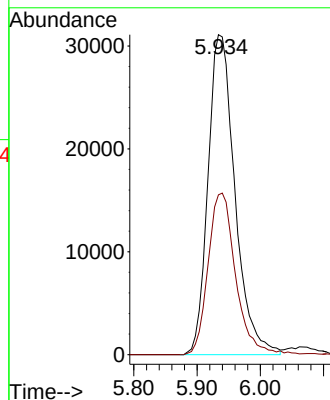
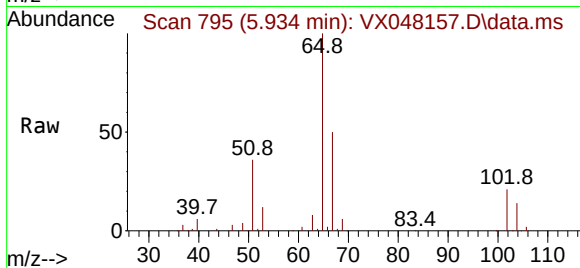
67 51.7 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

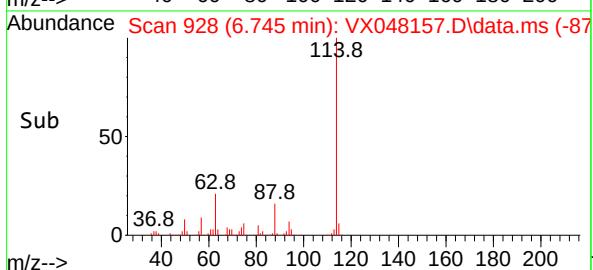
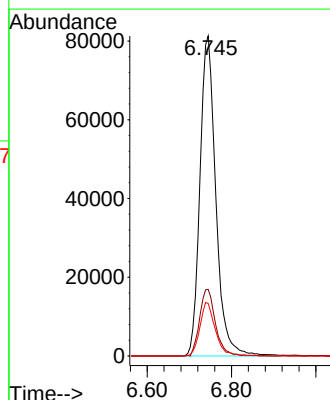
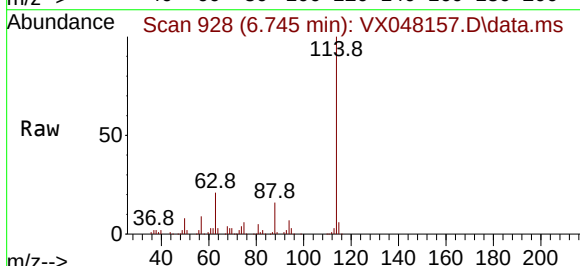
Tgt Ion:114 Resp: 213217

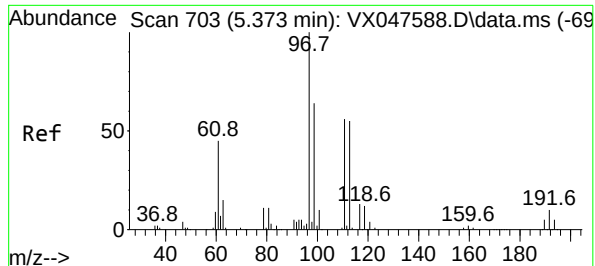
Ion Ratio Lower Upper

114 100

63 20.8 0.0 44.0

88 16.4 0.0 34.2





#35

Dibromofluoromethane

Concen: 54.089 ug/l

RT: 5.367 min Scan# 703

Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion:113 Resp: 7734

Ion Ratio Lower Upper

113 100

111 102.4 80.9 121.3

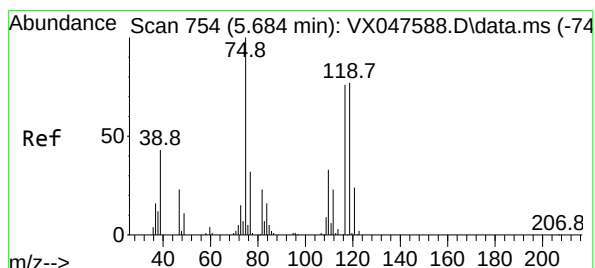
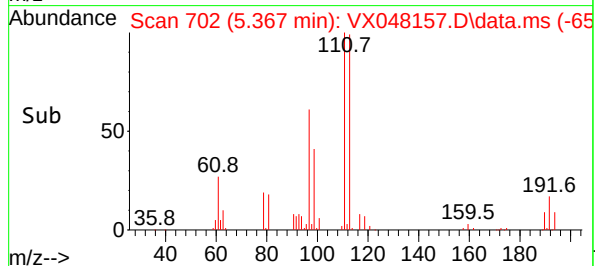
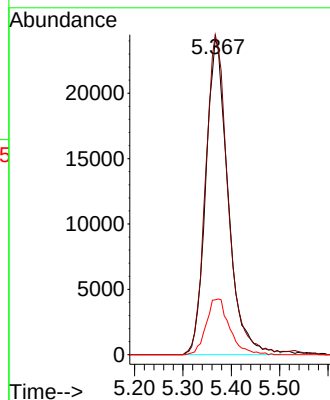
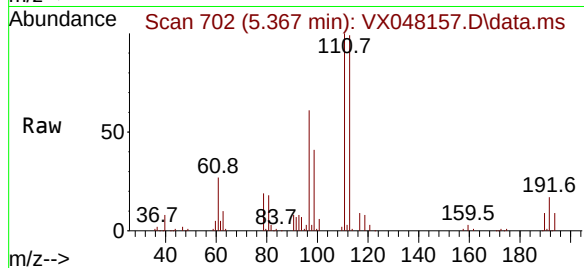
192 18.6 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#36

1,1-Dichloropropene

Concen: 20.169 ug/l

RT: 5.678 min Scan# 753

Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

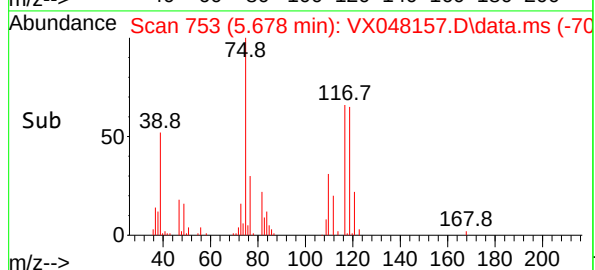
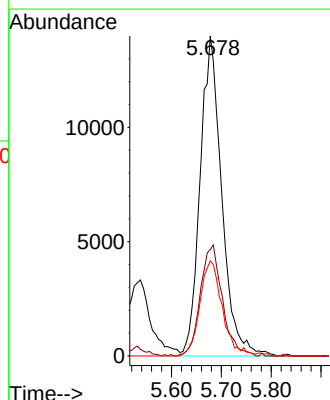
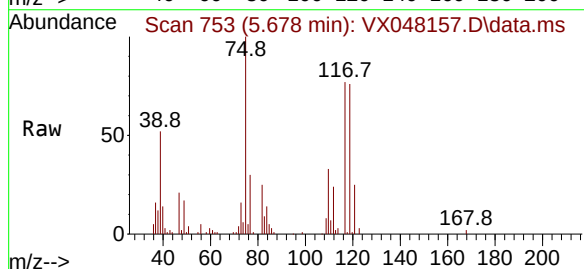
Tgt Ion: 75 Resp: 42143

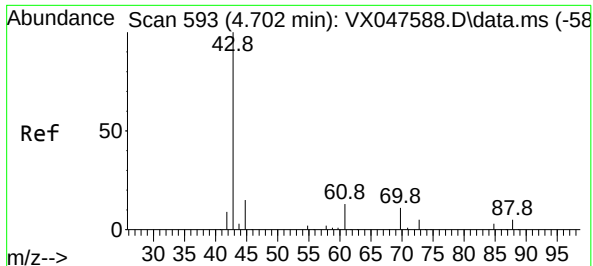
Ion Ratio Lower Upper

75 100

110 35.2 16.7 50.1

77 30.8 24.3 36.5





#37

Ethyl Acetate

Concen: 14.965 ug/l

RT: 4.696 min Scan# 593

Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

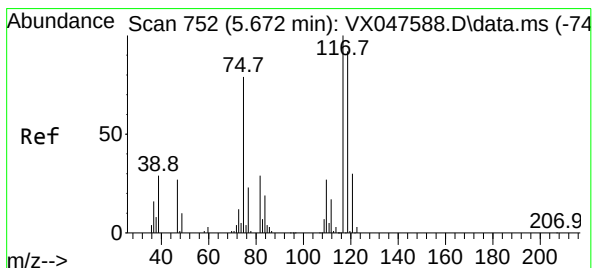
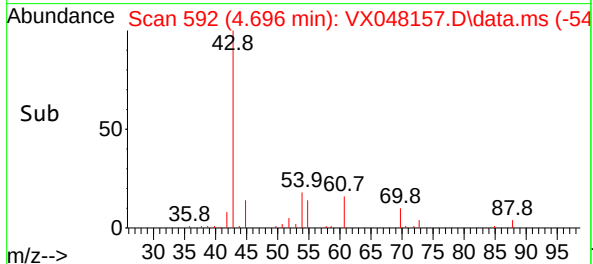
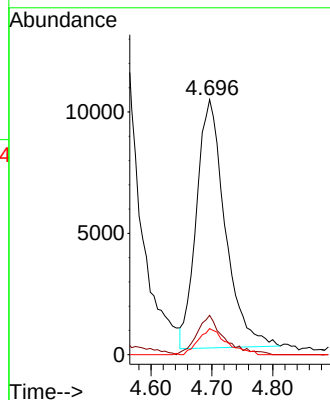
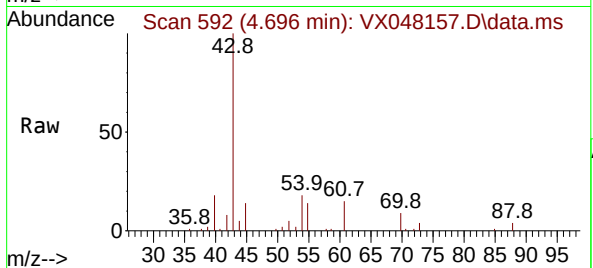
Tgt Ion:	43	Resp:	33480
Ion	Ratio	Lower	Upper
43	100		
61	14.9	9.8	14.8
70	10.3	7.9	11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#38

Carbon Tetrachloride

Concen: 21.144 ug/l

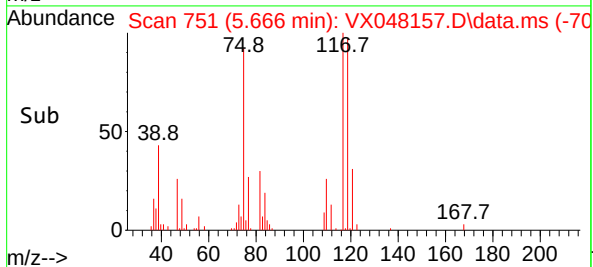
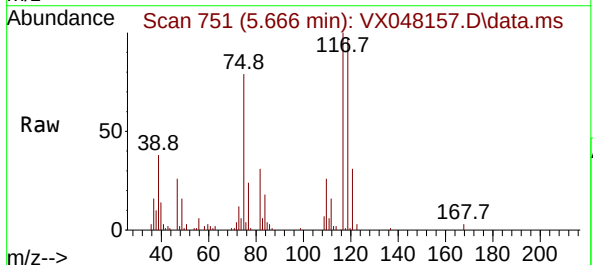
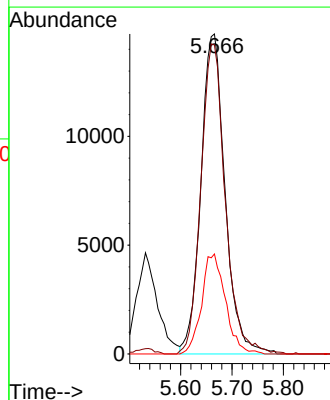
RT: 5.666 min Scan# 751

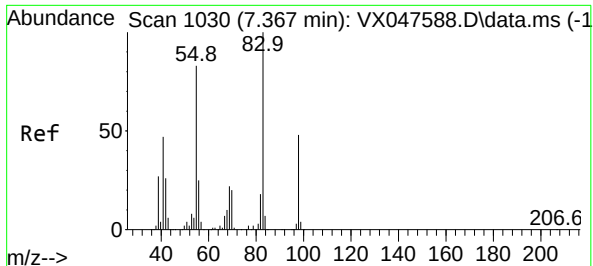
Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Tgt Ion:	117	Resp:	48003
Ion	Ratio	Lower	Upper
117	100		
119	96.0	73.4	110.2
121	31.2	23.8	35.6





#39

Methylcyclohexane

Concen: 21.282 ug/l

RT: 7.366 min Scan# 1030

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

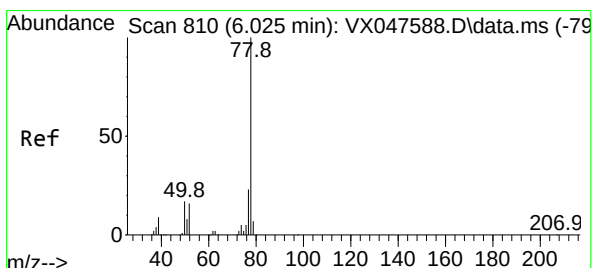
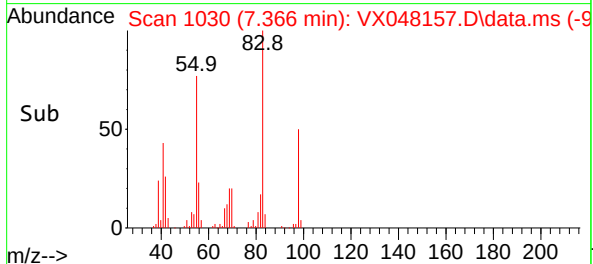
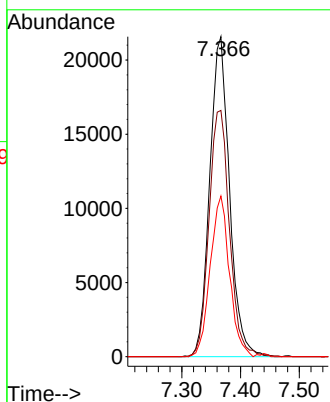
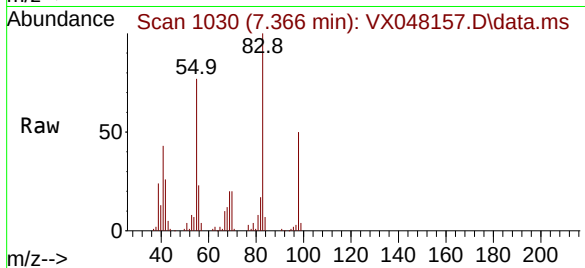
ClientSampleId :

VX1014WBSD01

Tgt Ion:	83	Resp:	5047
Ion	Ratio	Lower	Upper
83	100		
55	76.9	66.4	99.6
98	50.2	38.1	57.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#40

Benzene

Concen: 20.250 ug/l

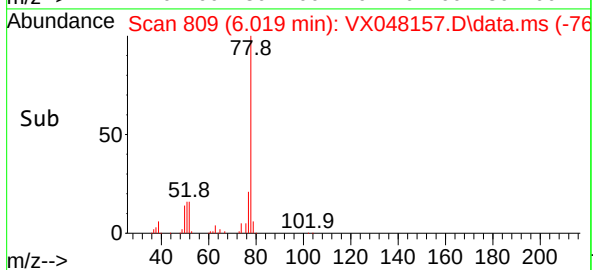
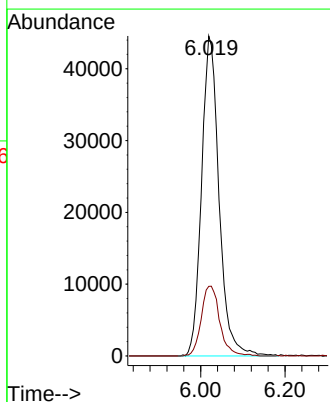
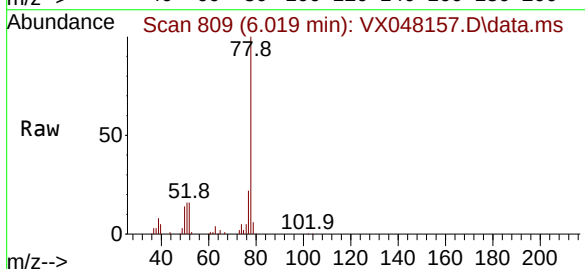
RT: 6.019 min Scan# 809

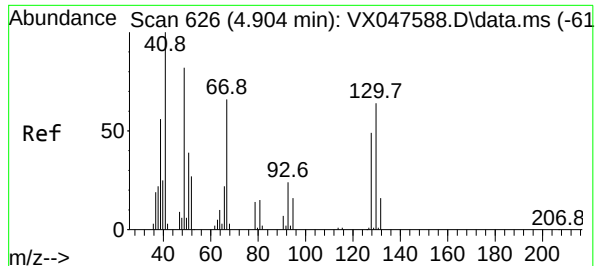
Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

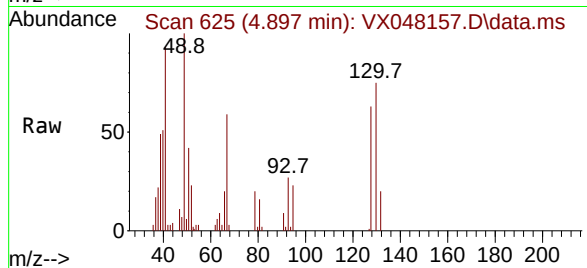
Tgt Ion:	78	Resp:	128511
Ion	Ratio	Lower	Upper
78	100		
77	21.7	18.8	28.2





#41
Methacrylonitrile
Concen: 15.433 ug/l
RT: 4.897 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

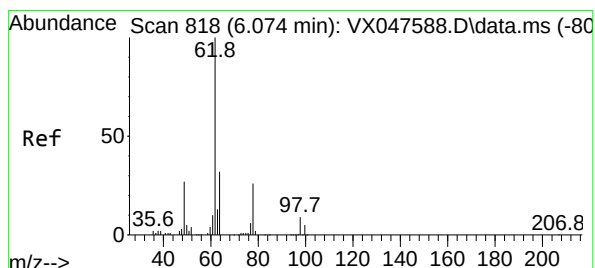
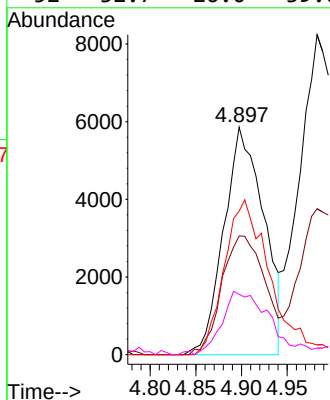
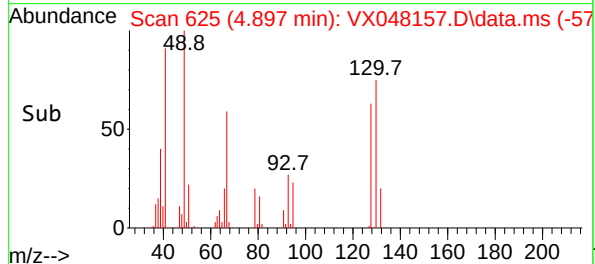
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBSD01



Tgt Ion: 41 Resp: 1782
Ion Ratio Lower Upper
41 100
39 56.2 43.3 64.9
67 77.8 58.6 87.8
52 32.7 26.0 39.0

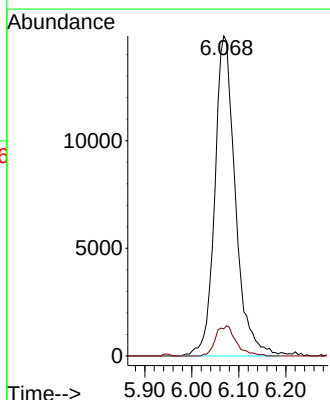
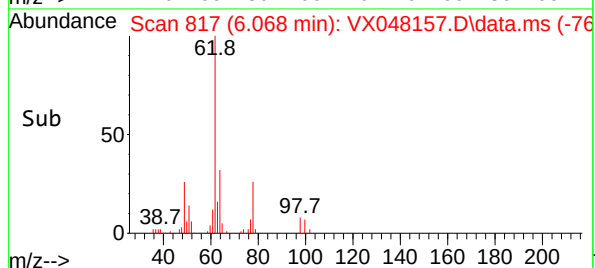
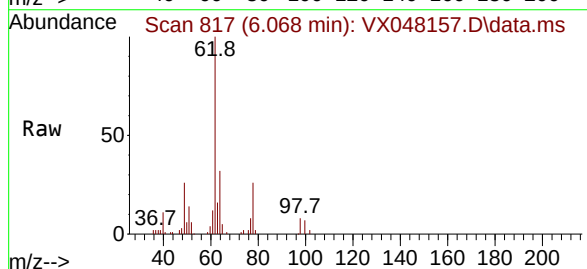
Manual Integrations
APPROVED

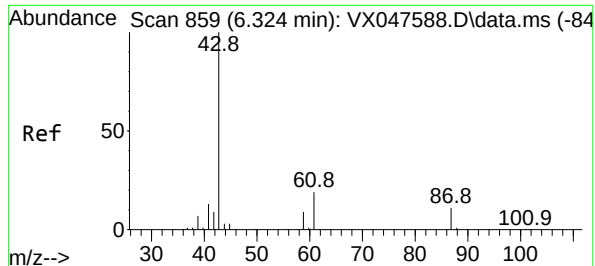
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#42
1,2-Dichloroethane
Concen: 18.741 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

Tgt Ion: 62 Resp: 45254
Ion Ratio Lower Upper
62 100
98 9.4 0.0 17.0





#43

Isopropyl Acetate

Concen: 15.610 ug/l

RT: 6.318 min Scan# 858

Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

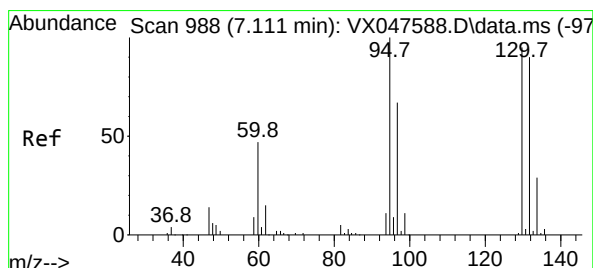
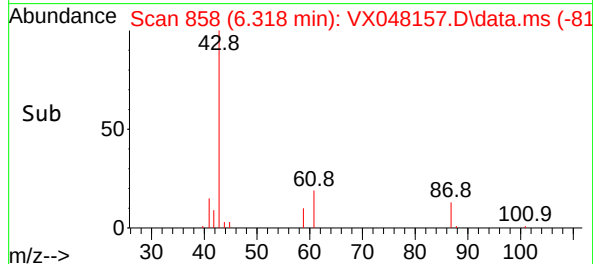
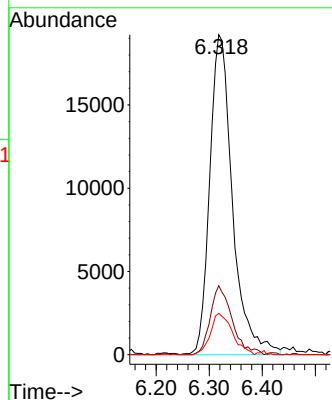
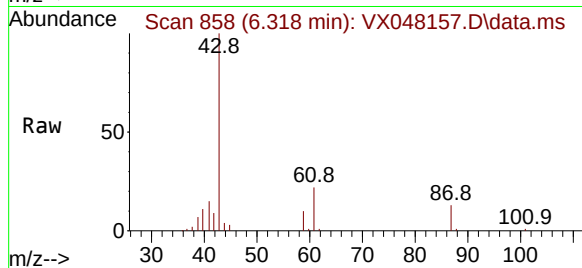
VX1014WBSD01

Tgt Ion:	43	Resp:	5727
Ion Ratio	Lower	Upper	
43	100		
61	20.6	15.2	22.8
87	12.4	9.6	14.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#44

Trichloroethene

Concen: 21.150 ug/l

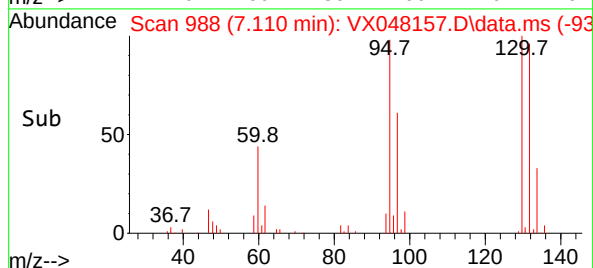
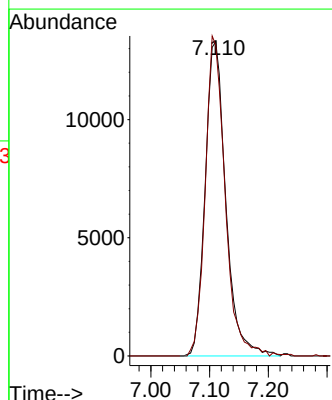
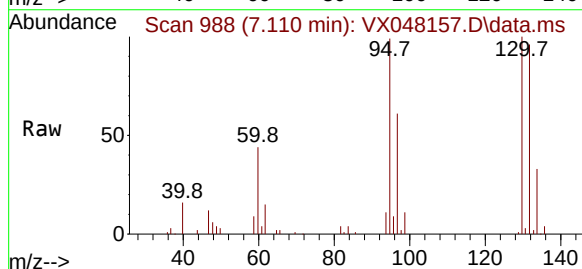
RT: 7.110 min Scan# 988

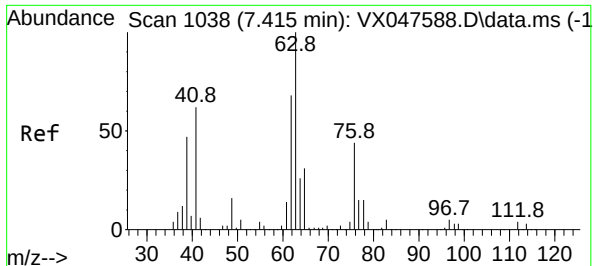
Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Tgt Ion:	130	Resp:	32450
Ion Ratio	Lower	Upper	
130	100		
95	99.0	0.0	210.8





#45

1,2-Dichloropropane

Concen: 19.338 ug/l

RT: 7.409 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion: 63 Resp: 3142

Ion Ratio Lower Upper

63 100

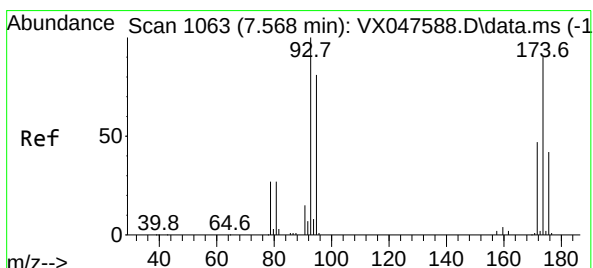
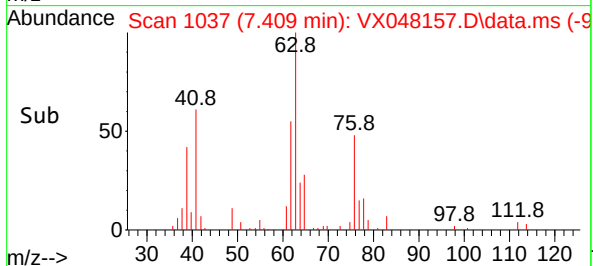
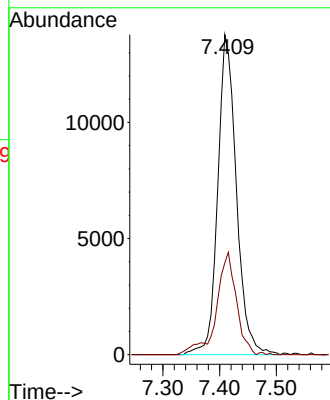
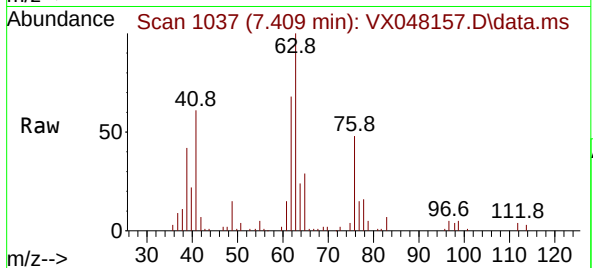
65 28.7 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#46

Dibromomethane

Concen: 19.032 ug/l

RT: 7.568 min Scan# 1063

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

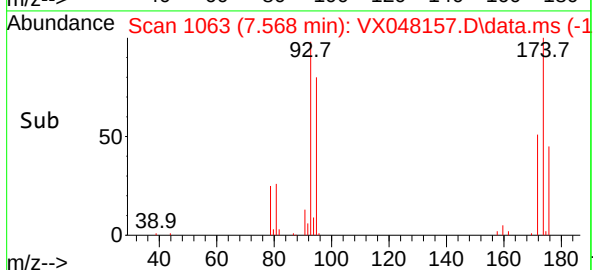
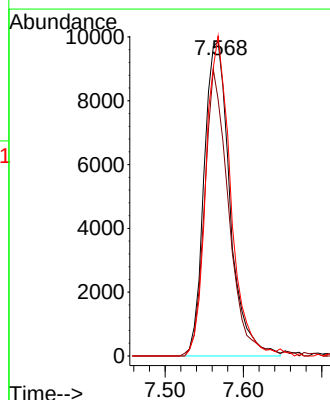
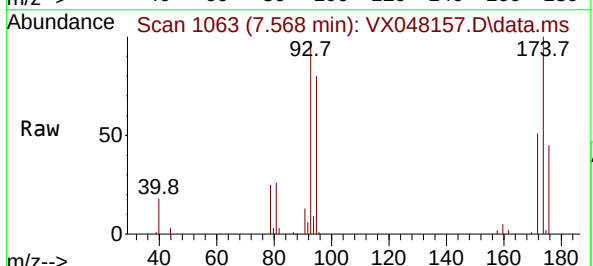
Tgt Ion: 93 Resp: 22506

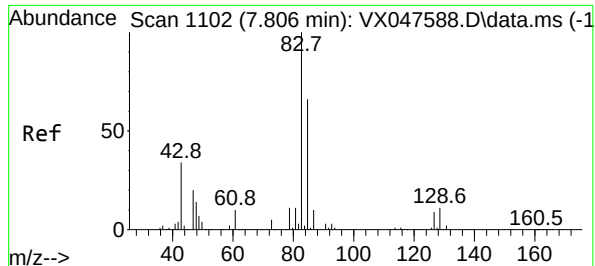
Ion Ratio Lower Upper

93 100

95 85.0 65.0 97.6

174 98.3 71.6 107.4





#47

Bromodichloromethane

Concen: 19.878 ug/l

RT: 7.805 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

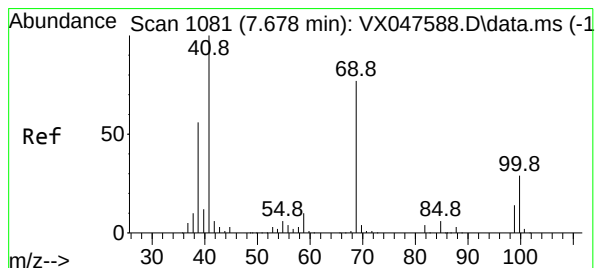
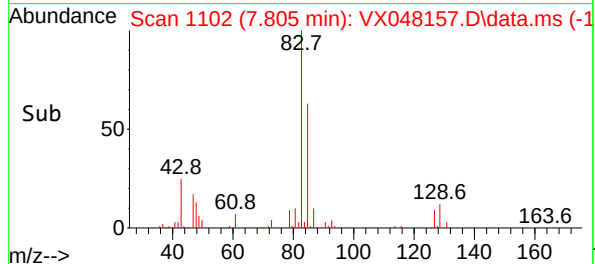
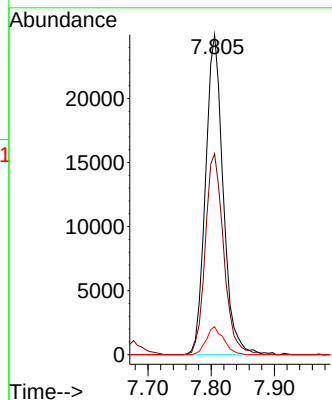
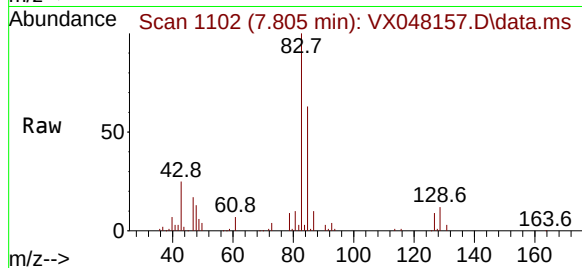
VX1014WBSD01

Tgt Ion:	83	Resp:	4850
Ion	Ratio	Lower	Upper
83	100		
85	62.8	52.5	78.7
127	8.7	6.9	10.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#48

Methyl methacrylate

Concen: 16.022 ug/l

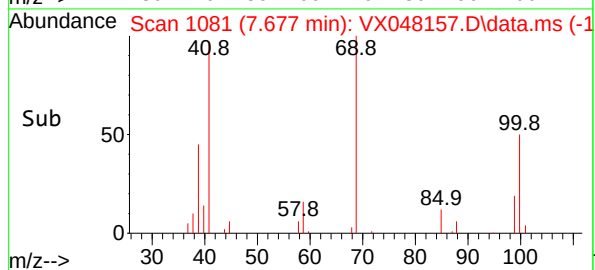
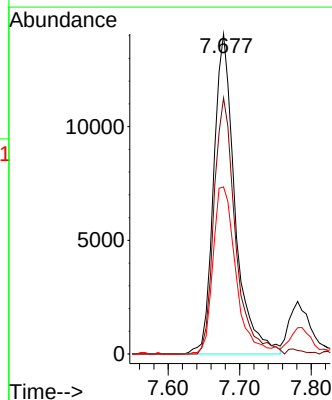
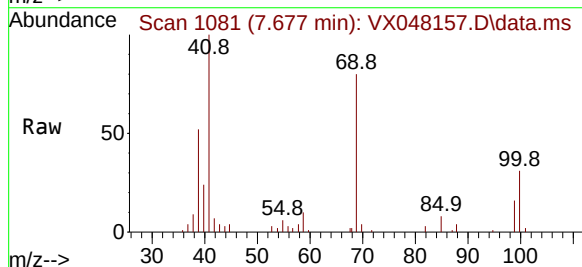
RT: 7.677 min Scan# 1081

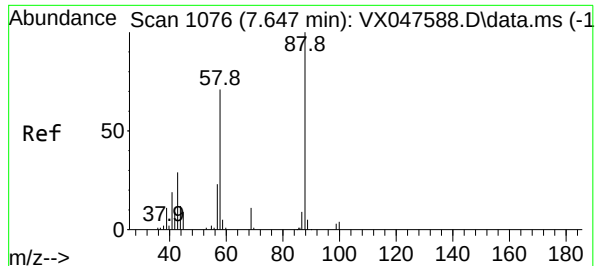
Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Tgt Ion:	41	Resp:	29284
Ion	Ratio	Lower	Upper
41	100		
69	79.7	61.4	92.2
39	55.6	45.8	68.6





#49

1,4-Dioxane

Concen: 367.338 ug/l

RT: 7.641 min Scan# 1076

Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

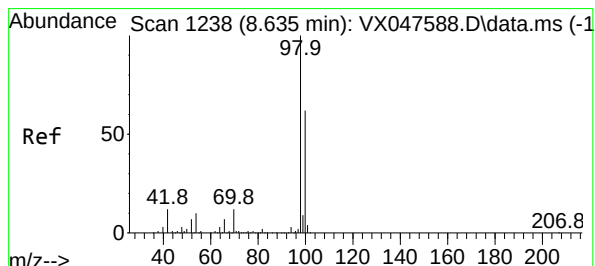
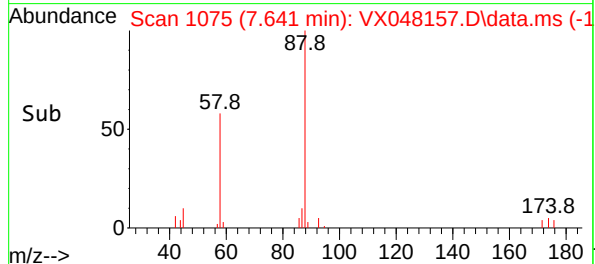
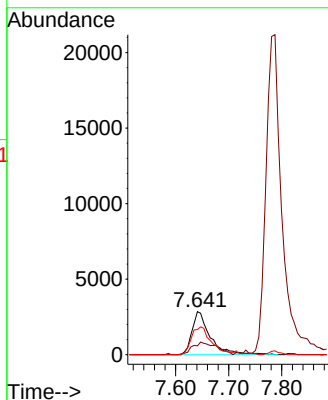
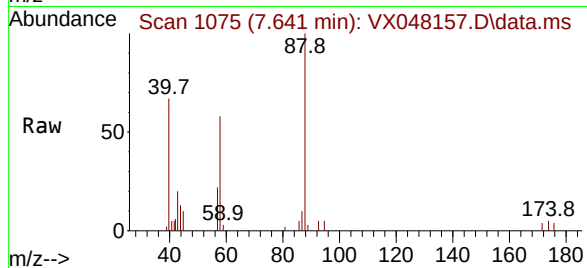
VX1014WBSD01

Tgt Ion: 88 Resp: 6785
Ion Ratio Lower Upper
88 100
43 38.8 30.2 45.2
58 69.3 59.5 89.3

Manual Integrations
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Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#50

Toluene-d8

Concen: 52.219 ug/l

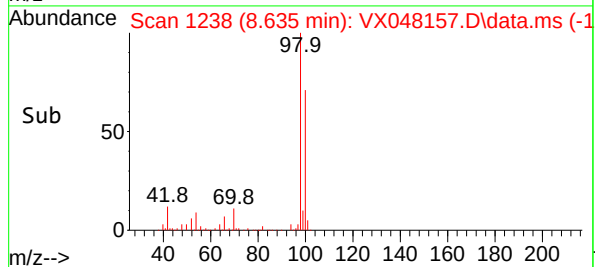
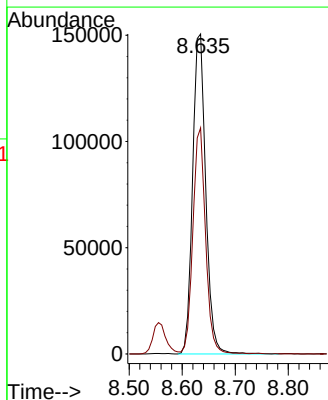
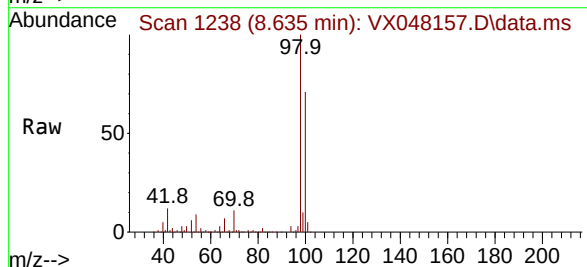
RT: 8.635 min Scan# 1238

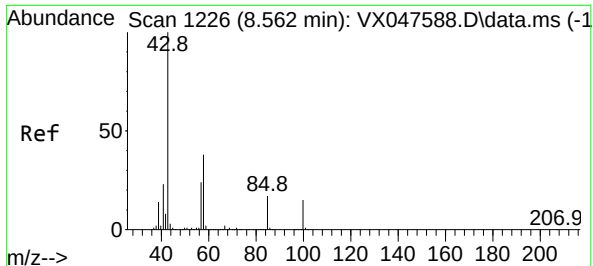
Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

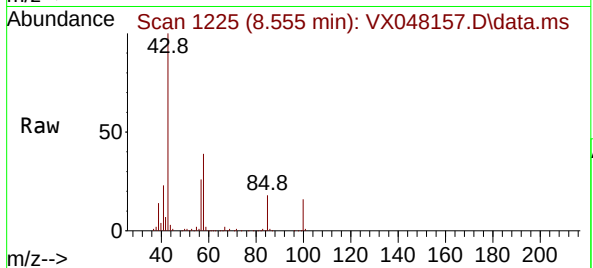
Tgt Ion: 98 Resp: 258374
Ion Ratio Lower Upper
98 100
100 68.0 53.0 79.4





#51
4-Methyl-2-Pentanone
Concen: 82.718 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

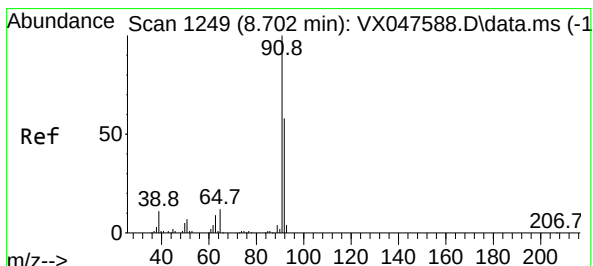
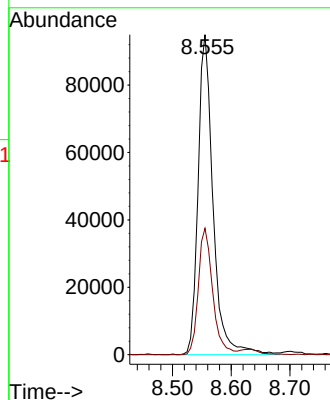
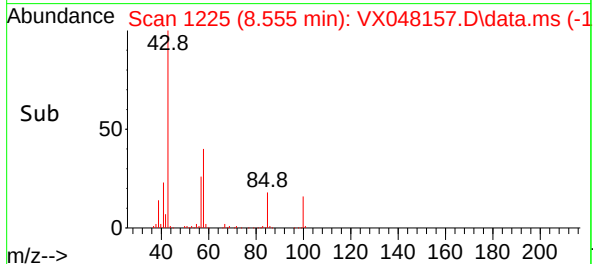
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBSD01



Tgt Ion: 43 Resp: 168280
Ion Ratio Lower Upper
43 100
58 38.0 30.3 45.5

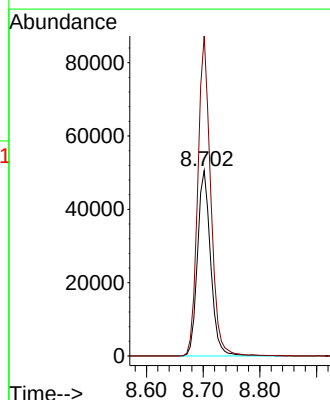
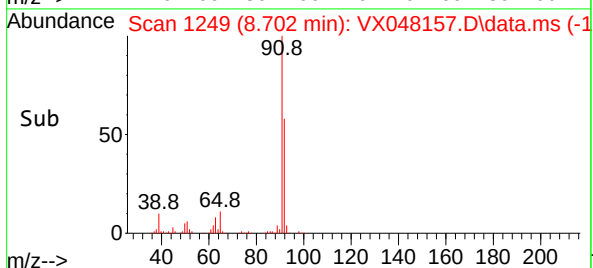
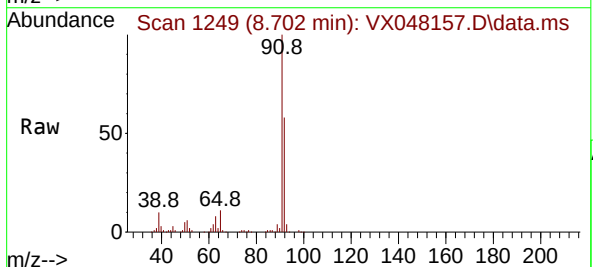
Manual Integrations
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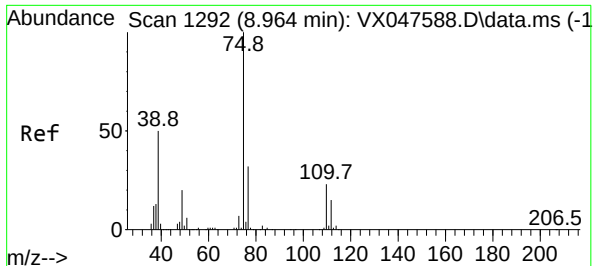
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#52
Toluene
Concen: 20.790 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

Tgt Ion: 92 Resp: 81287
Ion Ratio Lower Upper
92 100
91 169.0 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 18.867 ug/l

RT: 8.964 min Scan# 1191

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion: 75 Resp: 4696

Ion Ratio Lower Upper

75 100

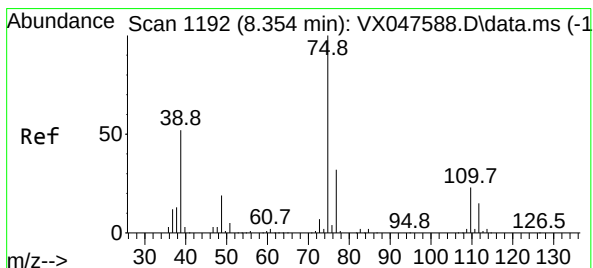
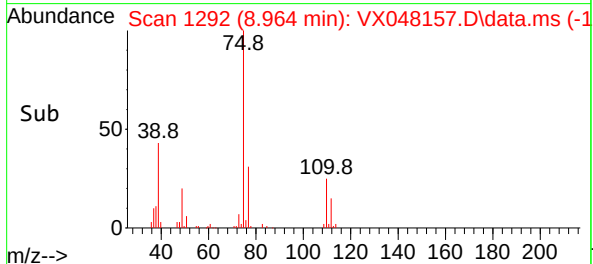
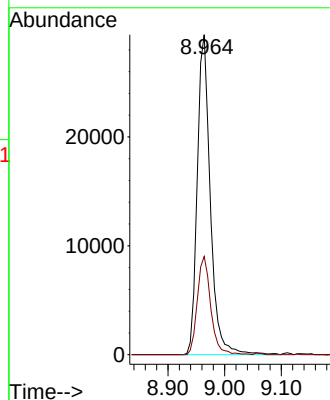
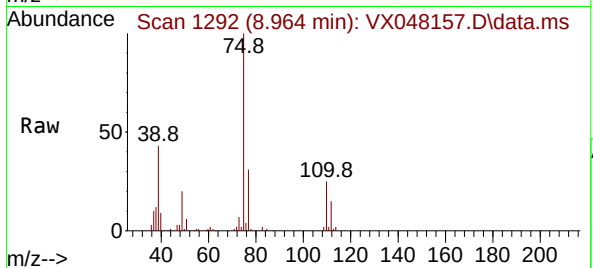
77 30.7 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#54

cis-1,3-Dichloropropene

Concen: 19.474 ug/l

RT: 8.348 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

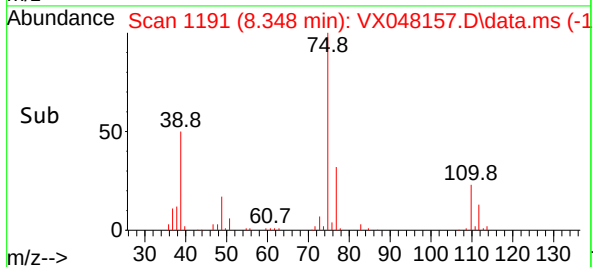
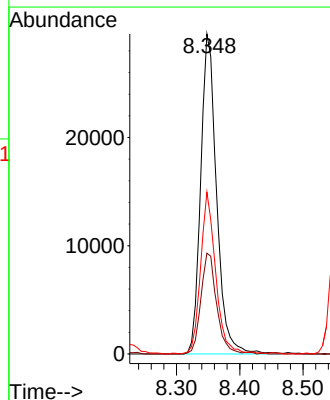
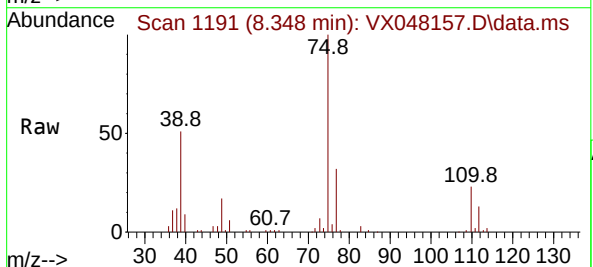
Tgt Ion: 75 Resp: 51810

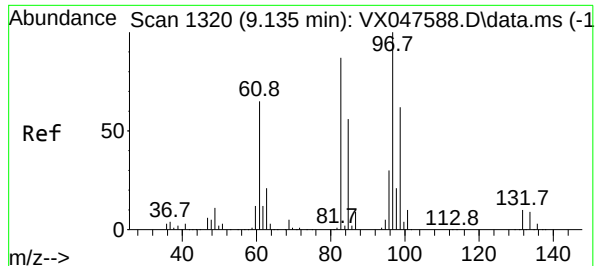
Ion Ratio Lower Upper

75 100

77 31.5 25.8 38.6

39 50.5 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 20.127 ug/l

RT: 9.134 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion: 97 Resp: 3034

Ion Ratio Lower Upper

97 100

83 87.1 69.6 104.4

85 55.2 45.0 67.6

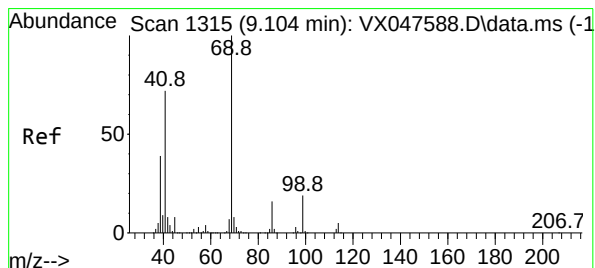
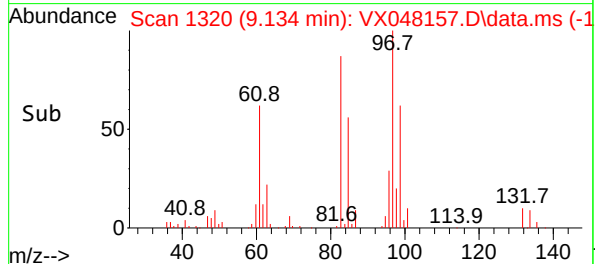
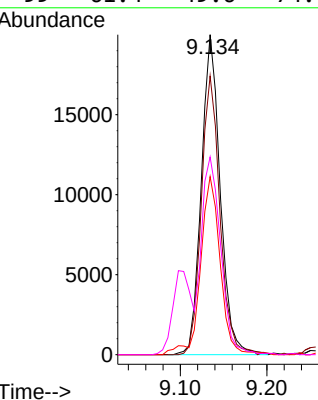
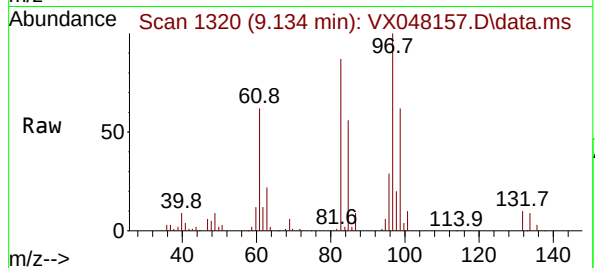
99 61.4 49.6 74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#56

Ethyl methacrylate

Concen: 17.412 ug/l

RT: 9.098 min Scan# 1314

Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

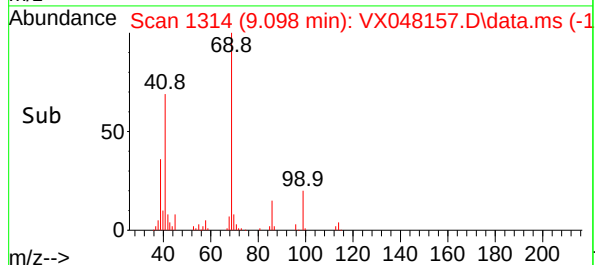
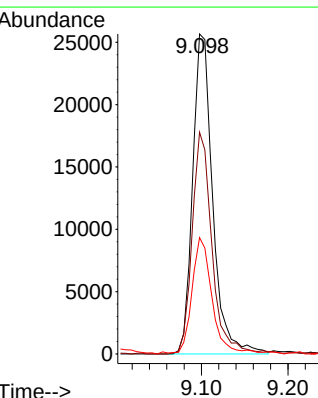
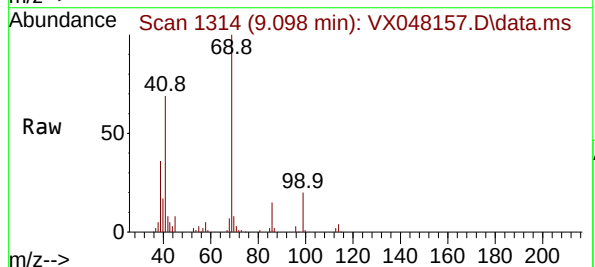
Tgt Ion: 69 Resp: 41227

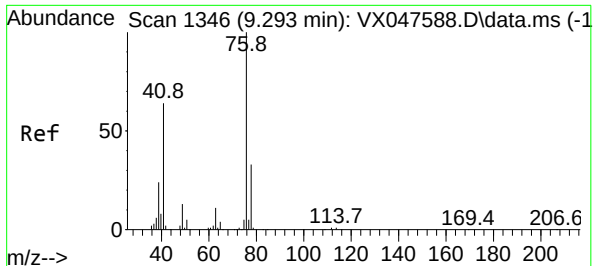
Ion Ratio Lower Upper

69 100

41 68.9 58.6 87.8

39 36.5 31.5 47.3





#57

1,3-Dichloropropane

Concen: 20.203 ug/l

RT: 9.293 min Scan# 11346

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion: 76 Resp: 5232

Ion Ratio Lower Upper

76 100

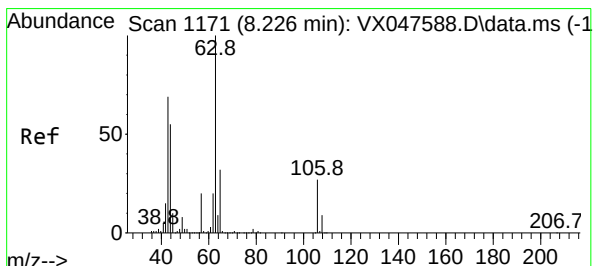
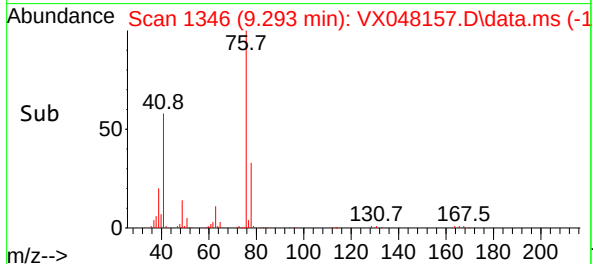
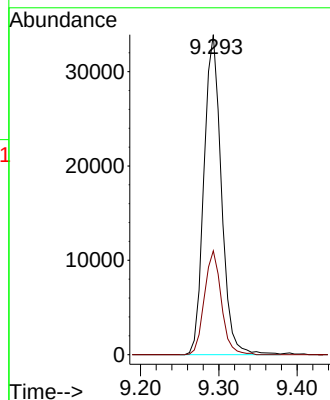
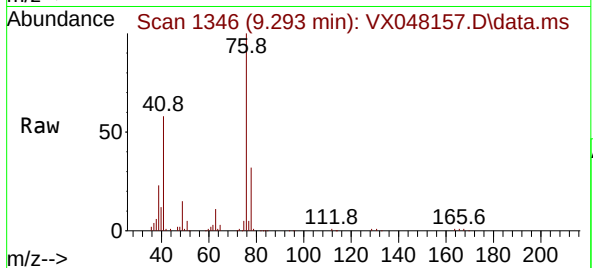
78 31.5 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#58

2-Chloroethyl Vinyl ether

Concen: 86.784 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX048157.D

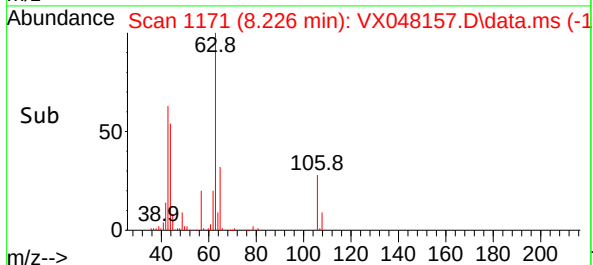
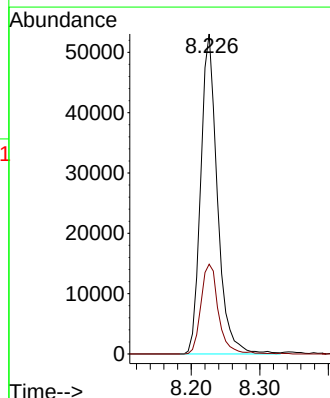
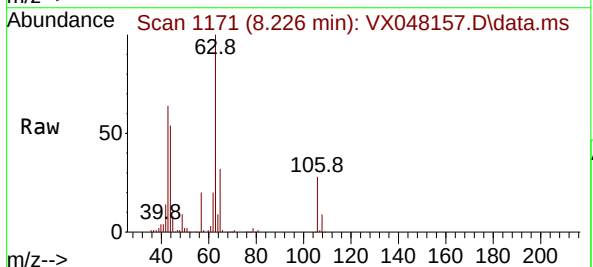
Acq: 14 Oct 2025 11:47

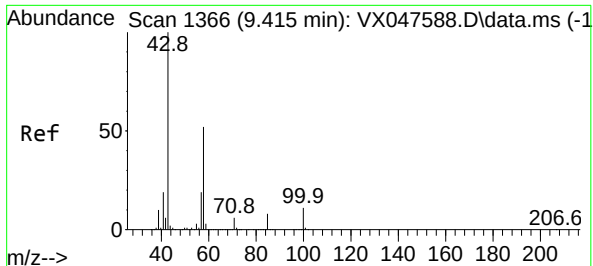
Tgt Ion: 63 Resp: 89842

Ion Ratio Lower Upper

63 100

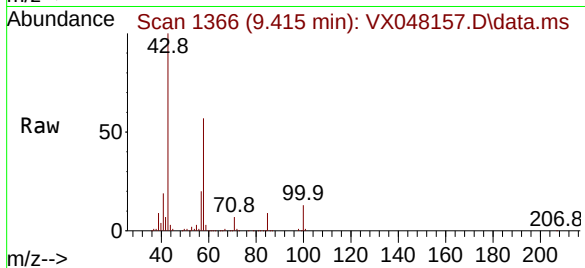
106 29.3 21.9 32.9





#59
2-Hexanone
Concen: 77.919 ug/l
RT: 9.415 min Scan# 11384
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

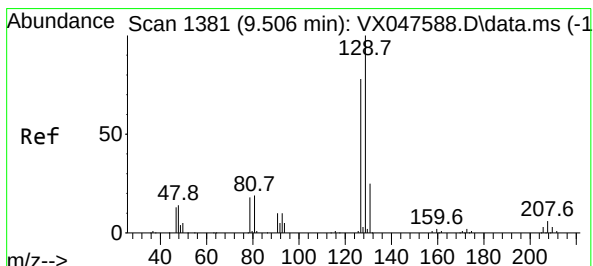
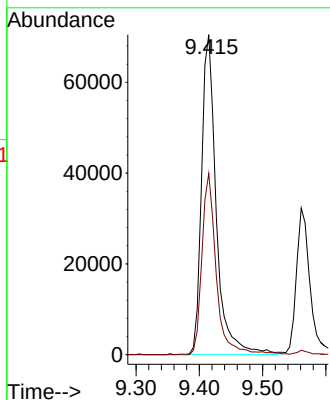
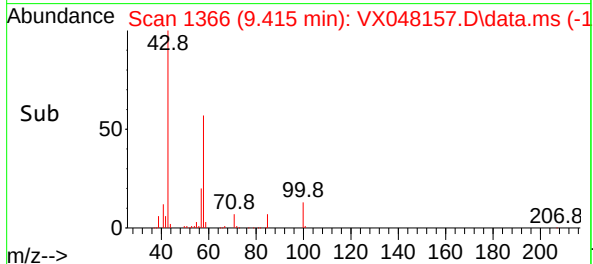
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBSD01



Tgt Ion: 43 Resp: 11384
Ion Ratio Lower Upper
43 100
58 55.6 26.1 78.2

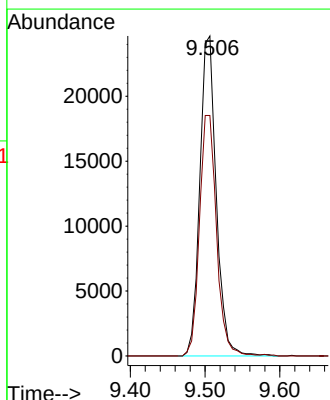
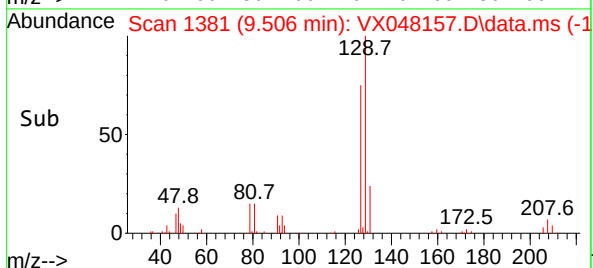
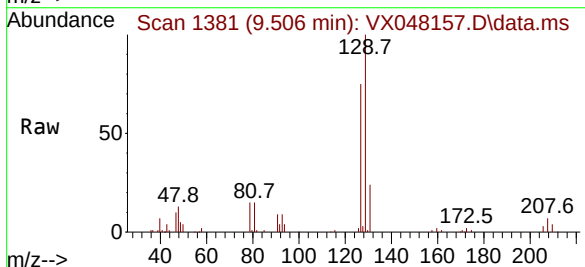
Manual Integrations
APPROVED

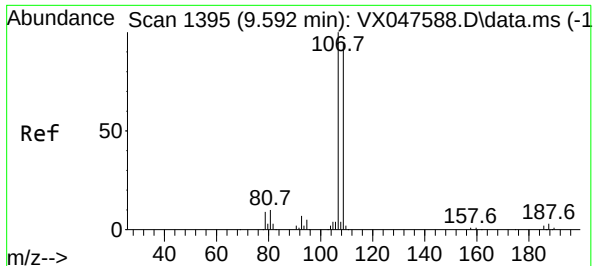
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#60
Dibromochloromethane
Concen: 21.659 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

Tgt Ion:129 Resp: 37625
Ion Ratio Lower Upper
129 100
127 78.0 38.4 115.2





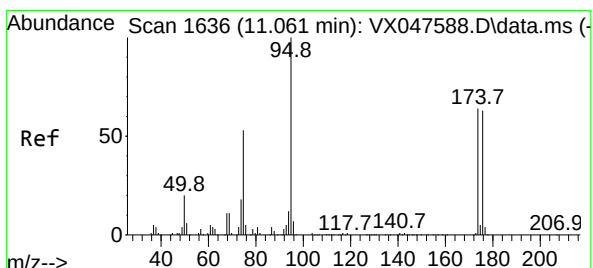
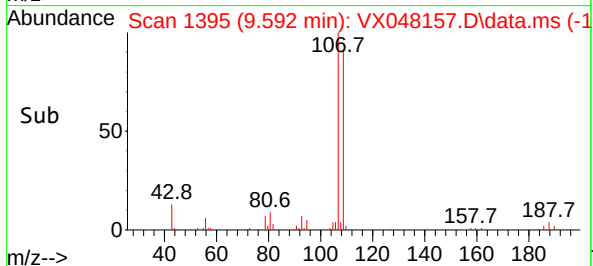
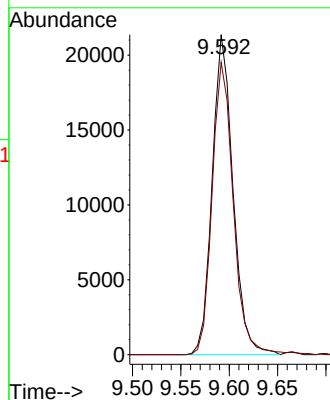
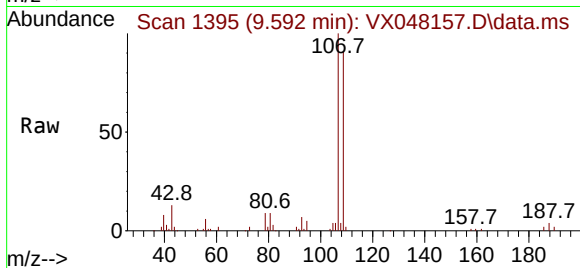
#61
1,2-Dibromoethane
Concen: 20.788 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBSD01

Tgt Ion: 107 Resp: 3192
Ion Ratio Lower Upper
107 100
109 93.2 75.3 112.9

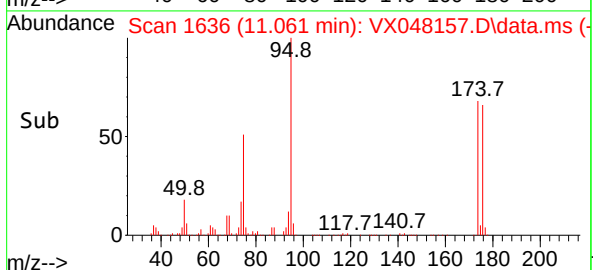
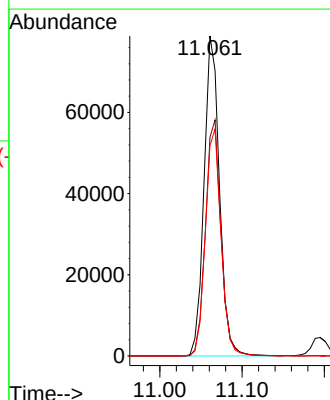
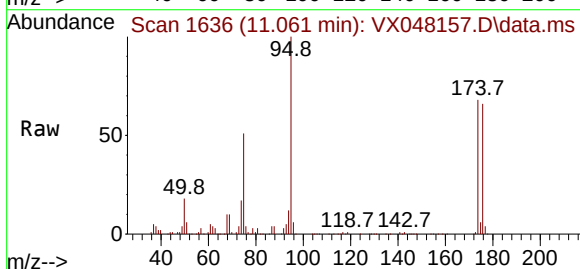
Manual Integrations
APPROVED

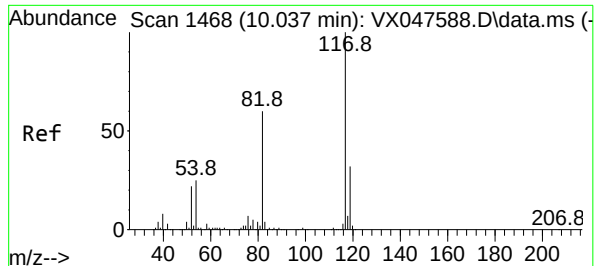
Reviewed By : John Carlone 10/15/2025
Supervised By : Mahesh Dadoda 10/16/2025



#62
4-Bromofluorobenzene
Concen: 54.675 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

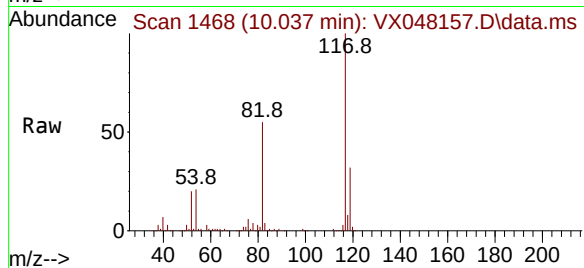
Tgt Ion: 95 Resp: 102670
Ion Ratio Lower Upper
95 100
174 74.4 0.0 141.6
176 71.8 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

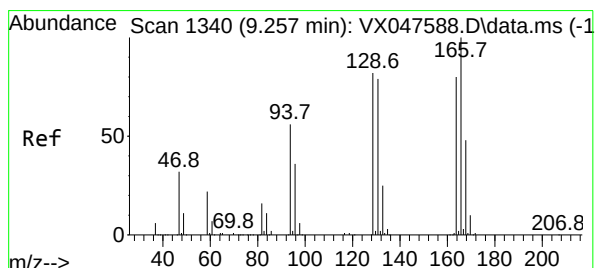
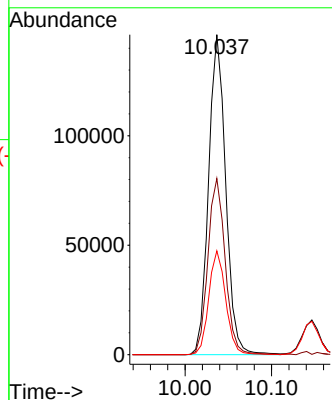
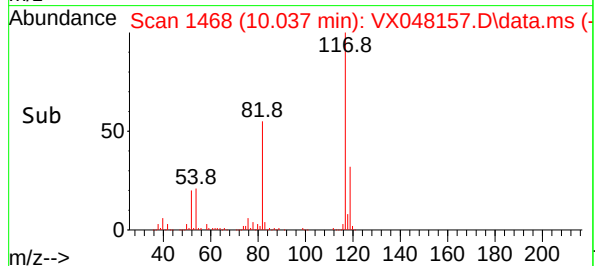
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBSD01



Tgt Ion:117 Resp: 200560
Ion Ratio Lower Upper
117 100
82 55.1 47.8 71.6
119 32.4 25.2 37.8

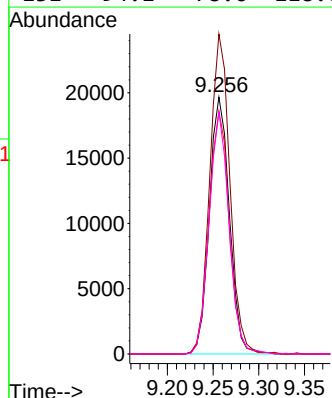
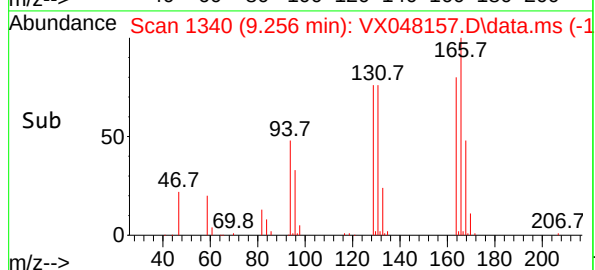
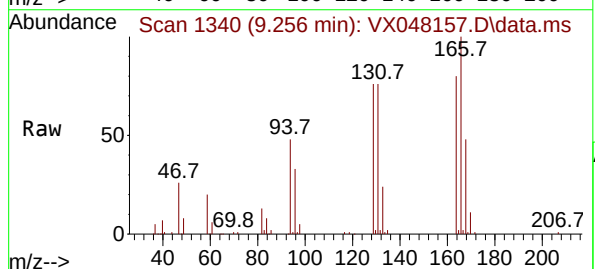
Manual Integrations
APPROVED

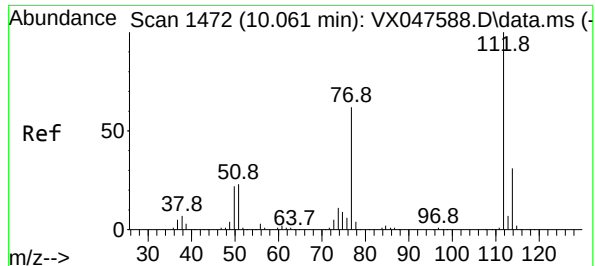
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#64
Tetrachloroethene
Concen: 22.938 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

Tgt Ion:164 Resp: 29991
Ion Ratio Lower Upper
164 100
166 124.6 100.2 150.2
129 94.4 81.8 122.6
131 94.1 78.6 118.0





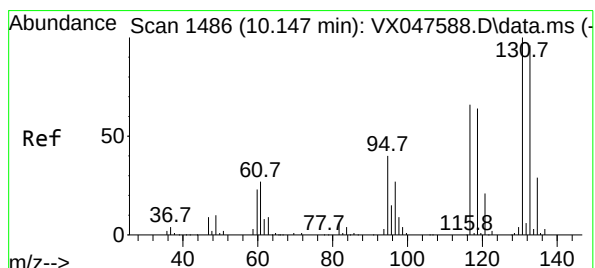
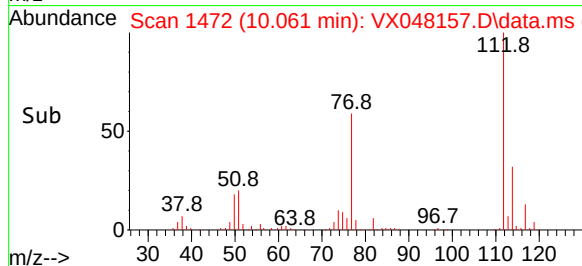
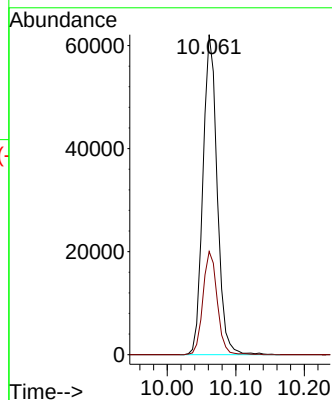
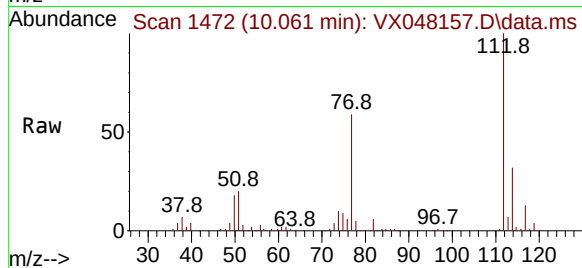
#65
Chlorobenzene
Concen: 19.779 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBSD01

Tgt Ion:112 Resp: 9012
Ion Ratio Lower Upper
112 100
114 32.2 25.1 37.7

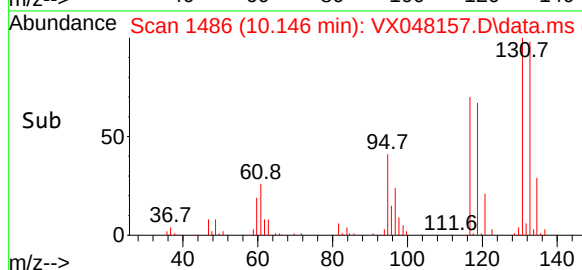
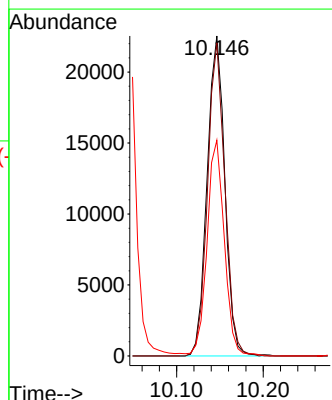
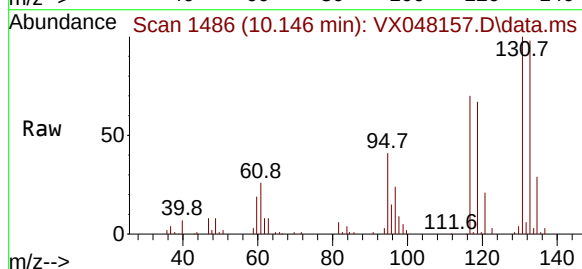
Manual Integrations
APPROVED

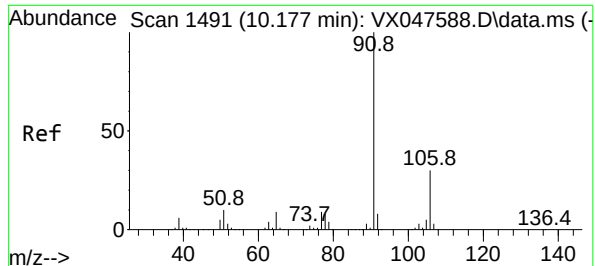
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 20.335 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

Tgt Ion:131 Resp: 31973
Ion Ratio Lower Upper
131 100
133 95.9 47.3 142.0
119 65.9 32.0 96.0





#67

Ethyl Benzene

Concen: 19.224 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion: 91 Resp: 15113

Ion Ratio Lower Upper

91 100

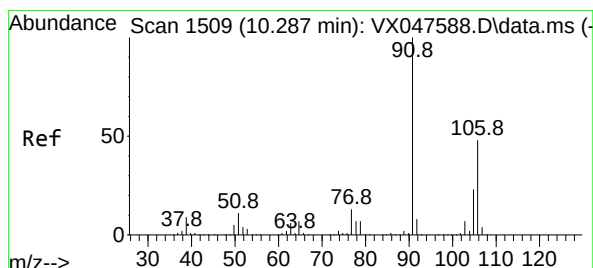
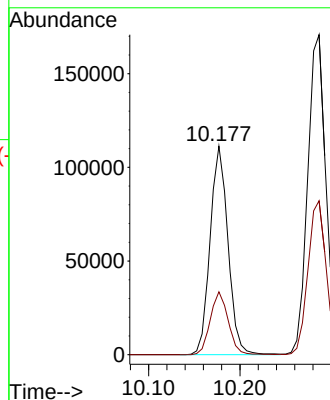
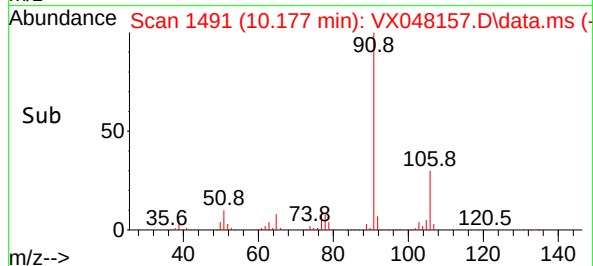
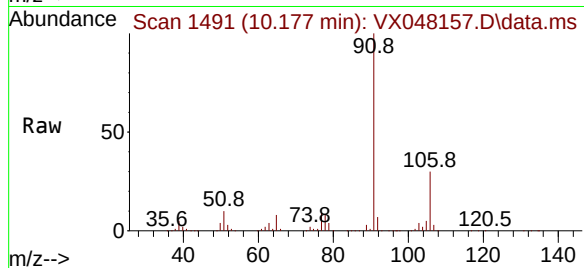
106 30.2 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#68

m/p-Xylenes

Concen: 39.917 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX048157.D

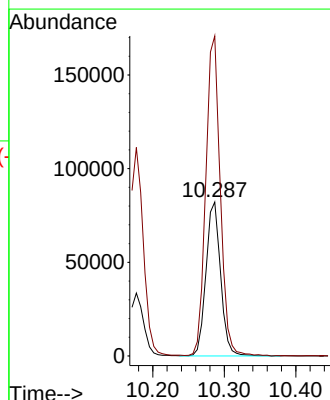
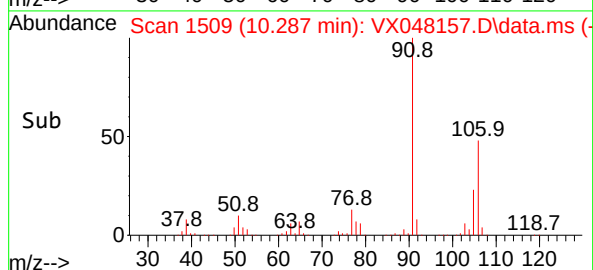
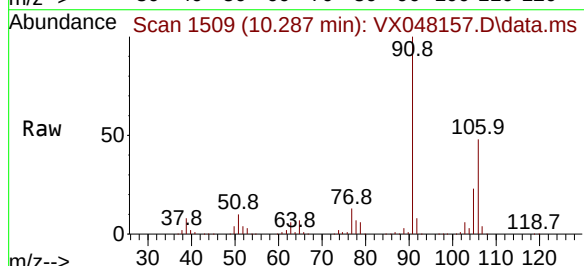
Acq: 14 Oct 2025 11:47

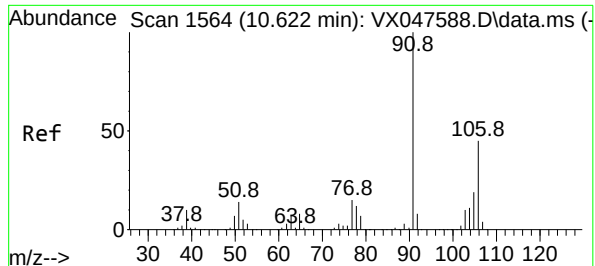
Tgt Ion:106 Resp: 116808

Ion Ratio Lower Upper

106 100

91 205.4 167.8 251.8





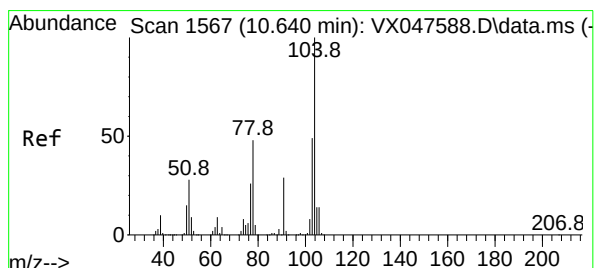
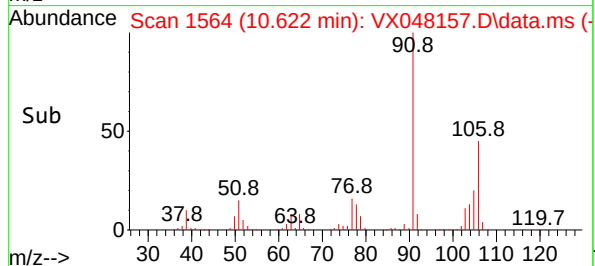
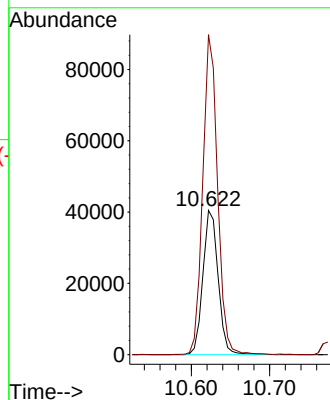
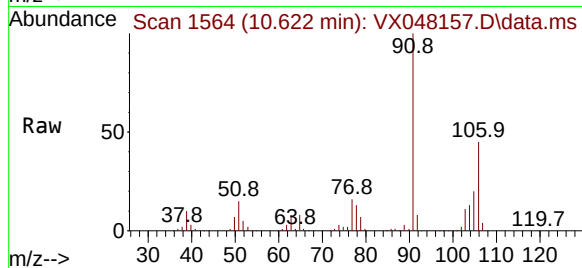
#69
o-Xylene
Concen: 19.280 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBSD01

Tgt Ion:106 Resp: 54569
Ion Ratio Lower Upper
106 100
91 216.1 111.1 333.4

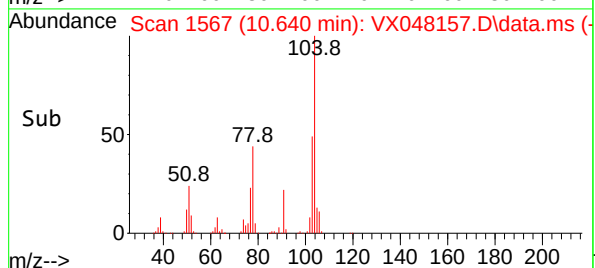
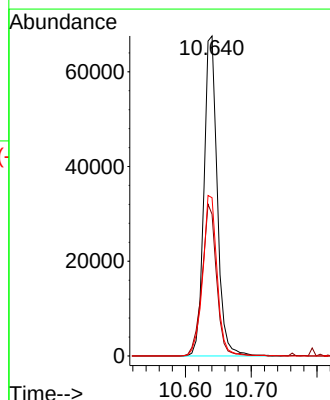
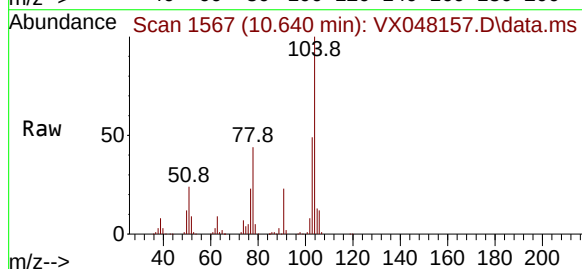
Manual Integrations
APPROVED

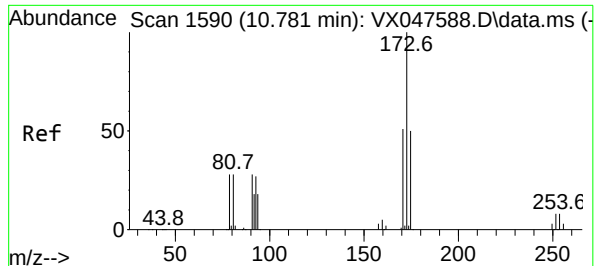
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#70
Styrene
Concen: 19.227 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

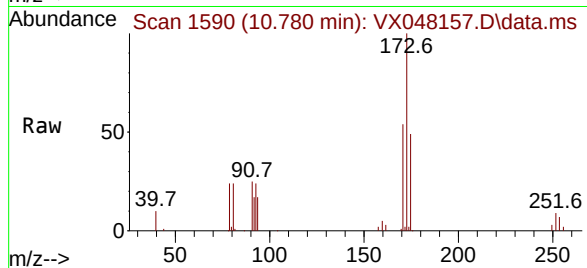
Tgt Ion:104 Resp: 95353
Ion Ratio Lower Upper
104 100
78 51.4 43.1 64.7
103 54.1 43.1 64.7





#71
Bromoform
Concen: 20.768 ug/l
RT: 10.780 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

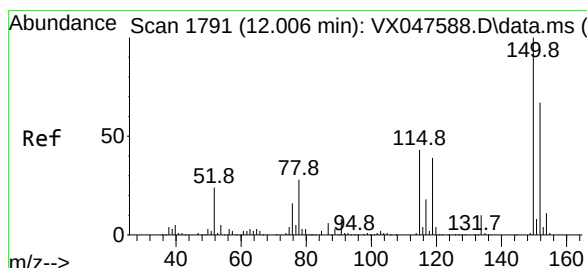
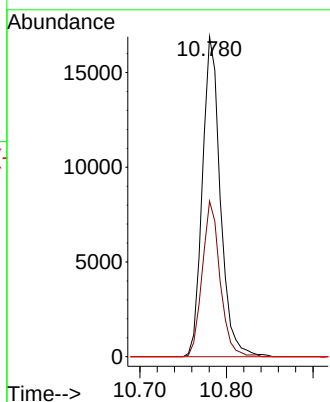
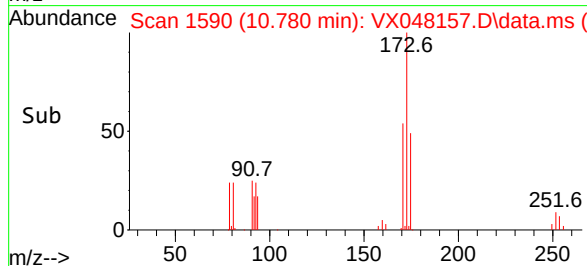
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBSD01



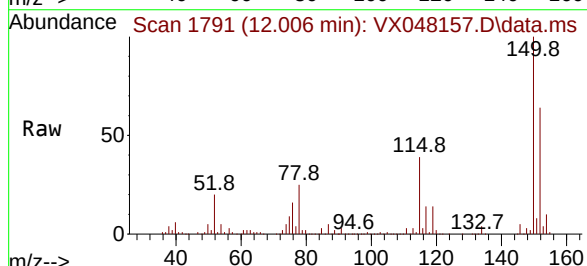
Tgt Ion:173 Resp: 2438
Ion Ratio Lower Upper
173 100
175 48.1 24.9 74.6
254 0.0 0.1 0.1

Manual Integrations
APPROVED

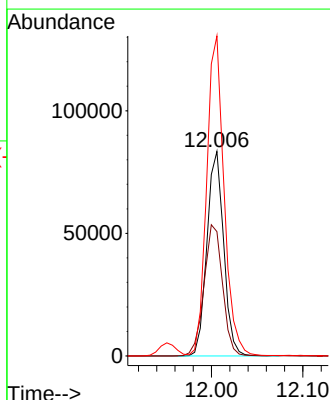
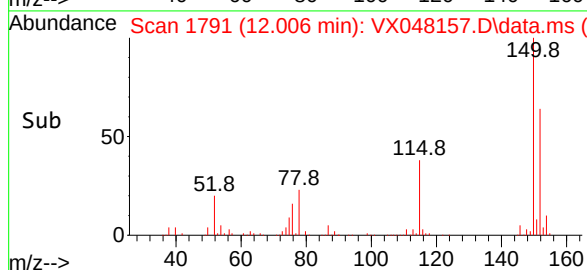
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

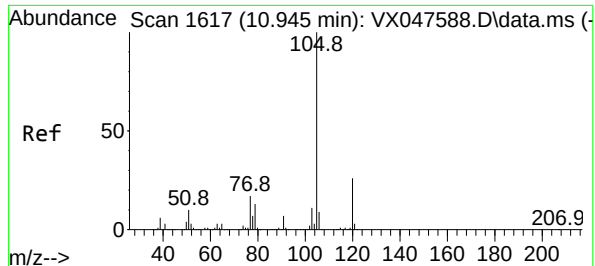


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47



Tgt Ion:152 Resp: 106639
Ion Ratio Lower Upper
152 100
115 70.8 44.9 134.5
150 161.6 0.0 352.0





#73

Isopropylbenzene

Concen: 17.711 ug/l

RT: 10.945 min Scan# 1617

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion:105 Resp: 14359

Ion Ratio Lower Upper

105 100

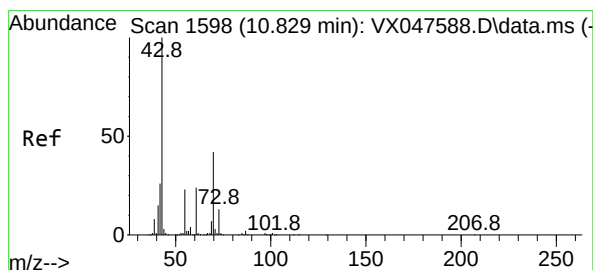
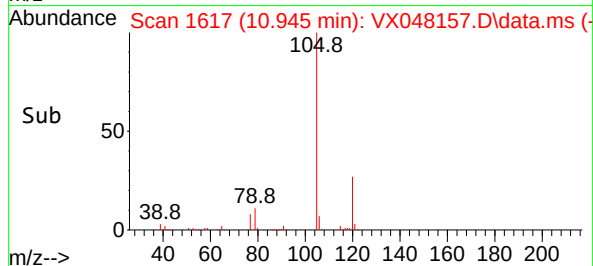
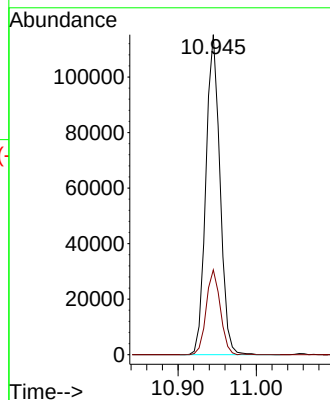
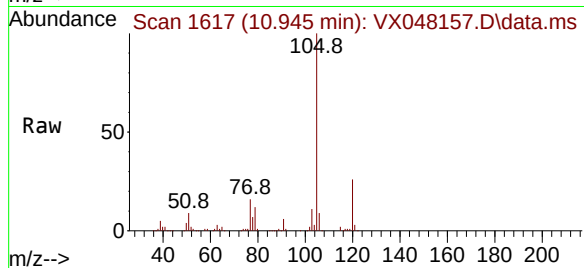
120 26.5 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#74

N-ethyl acetate

Concen: 13.786 ug/l

RT: 10.823 min Scan# 1597

Delta R.T. -0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Tgt Ion: 43 Resp: 50968

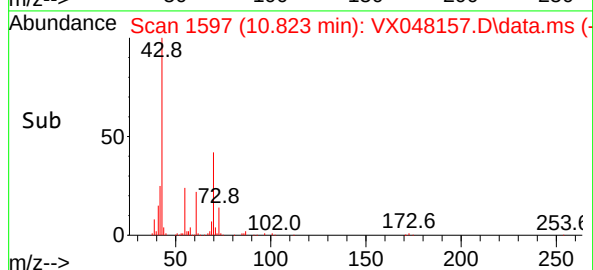
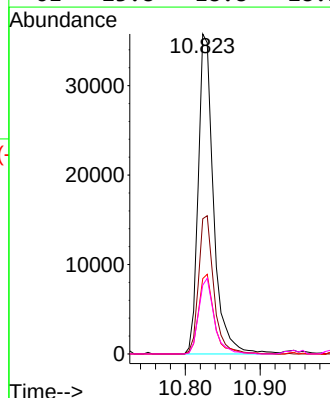
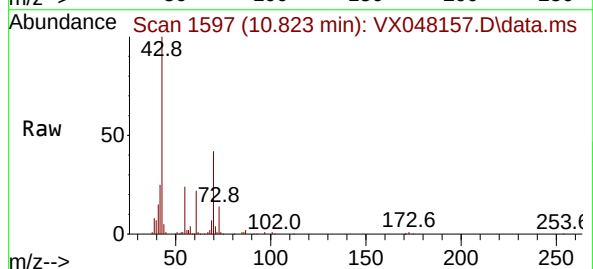
Ion Ratio Lower Upper

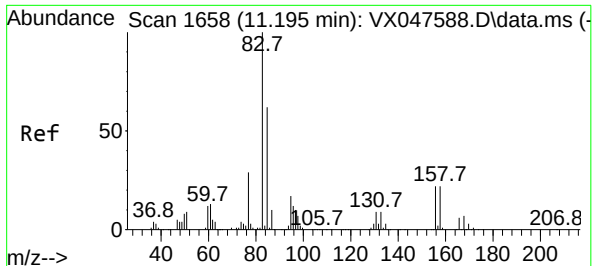
43 100

70 42.9 32.0 48.0

55 25.1 18.9 28.3

61 23.8 18.8 28.2





#75

1,1,2,2-Tetrachloroethane

Concen: 16.754 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

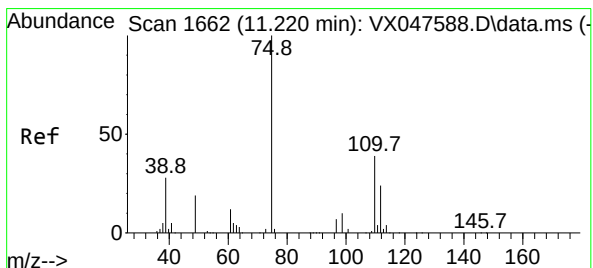
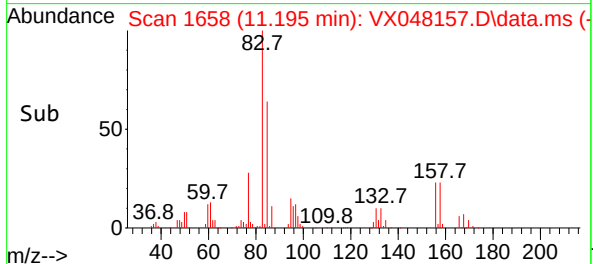
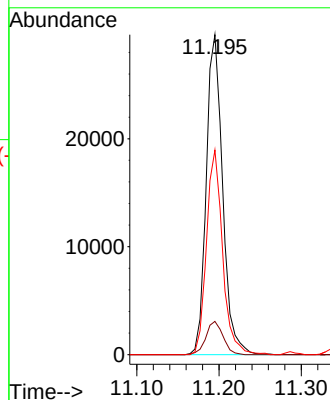
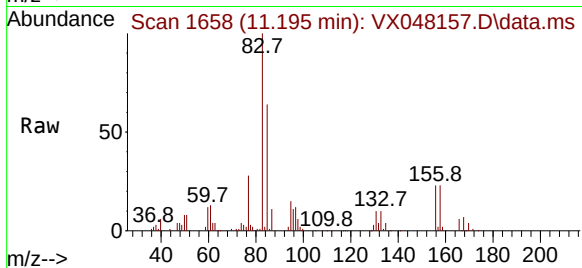
Tgt Ion:	83	Resp:	4109
Ion	Ratio	Lower	Upper
83	100		
131	10.9	5.0	14.9
85	62.9	31.6	95.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#76

1,2,3-Trichloropropane

Concen: 18.379 ug/l m

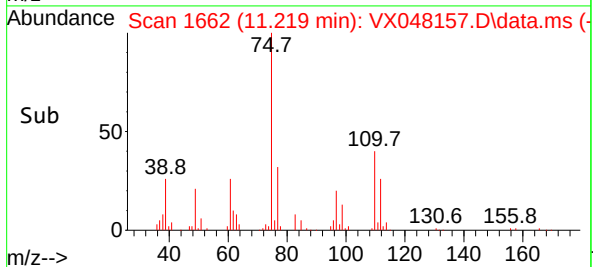
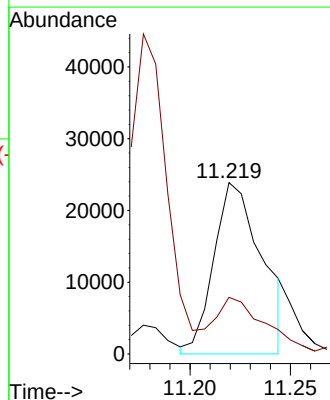
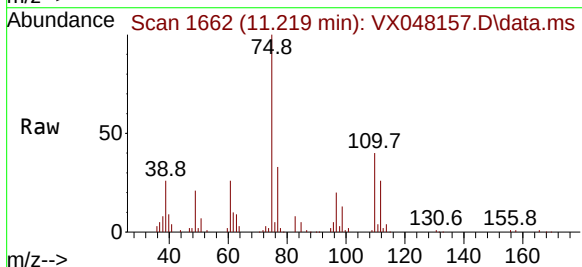
RT: 11.219 min Scan# 1662

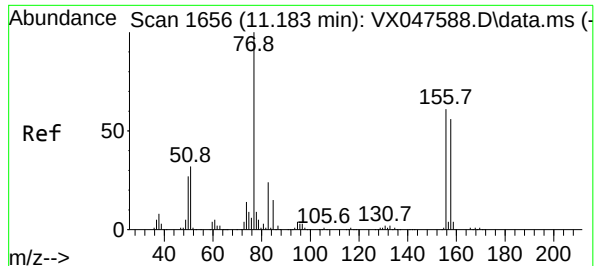
Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Tgt Ion:	75	Resp:	39683
Ion	Ratio	Lower	Upper
75	100		
77	33.1	18.8	56.4





#77

Bromobenzene

Concen: 18.324 ug/l

RT: 11.183 min Scan# 1656

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

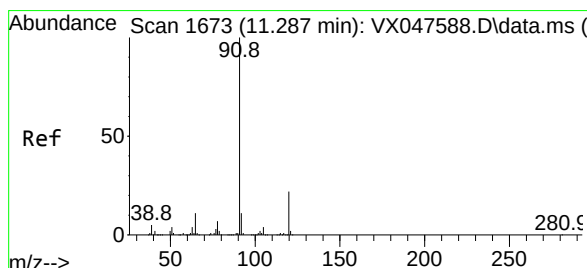
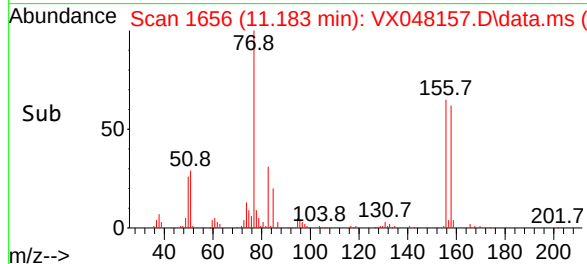
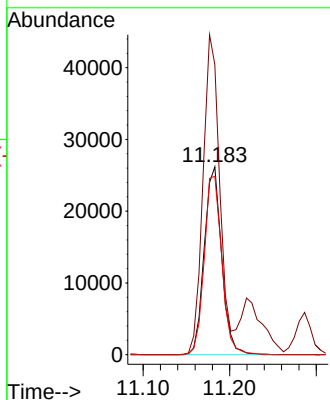
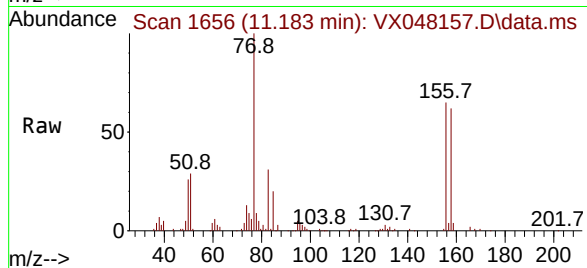
ClientSampleId :

VX1014WBSD01

Tgt Ion:	156	Resp:	36590
Ion	Ratio	Lower	Upper
156	100		
77	165.4	89.7	269.1
158	95.8	47.9	143.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#78

n-propylbenzene

Concen: 18.047 ug/l

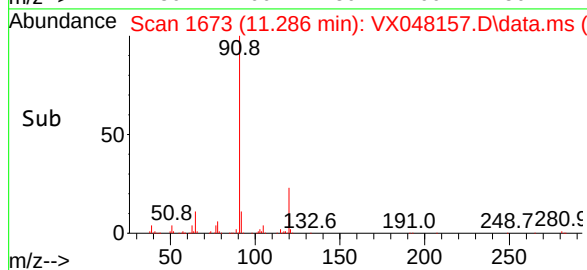
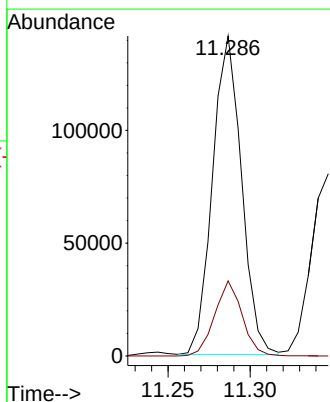
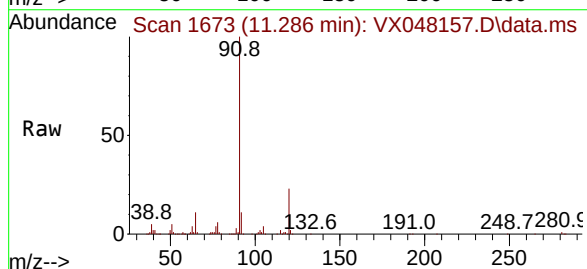
RT: 11.286 min Scan# 1673

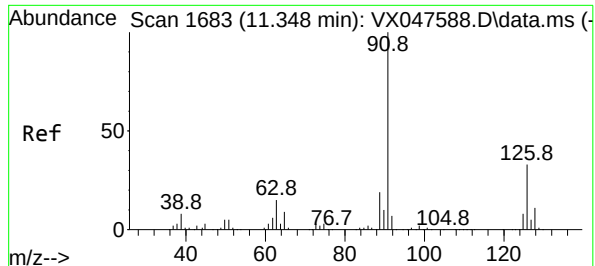
Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Tgt Ion:	91	Resp:	172966
Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.1	33.1





#79

2-Chlorotoluene

Concen: 17.726 ug/l

RT: 11.347 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion: 91 Resp: 10405

Ion Ratio Lower Upper

91 100

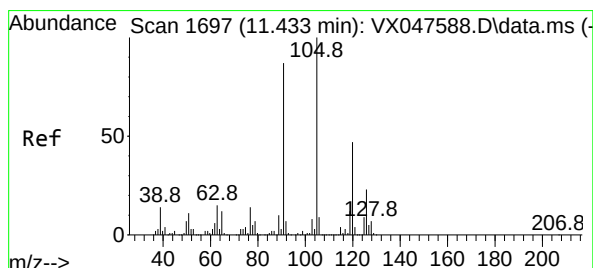
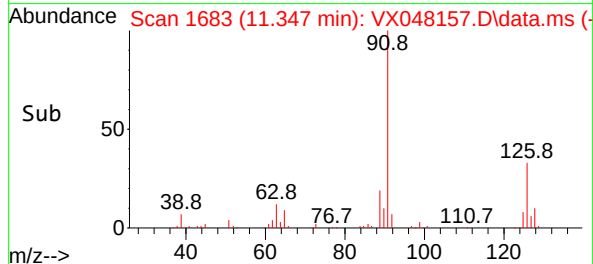
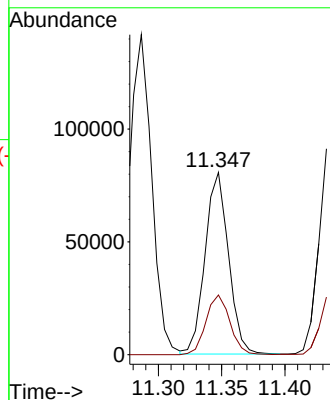
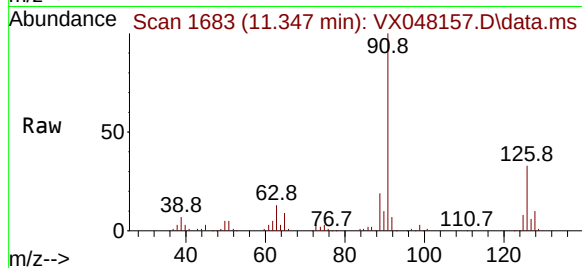
126 33.5 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#80

1,3,5-Trimethylbenzene

Concen: 18.024 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX048157.D

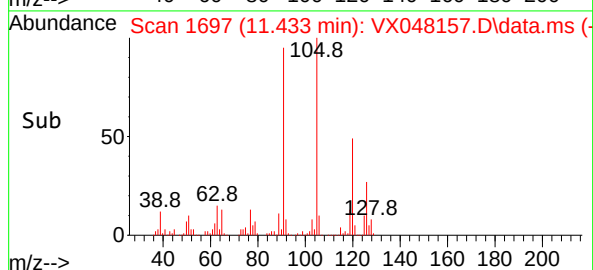
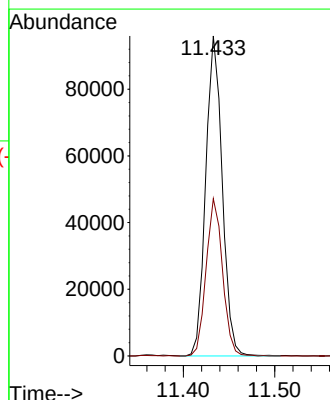
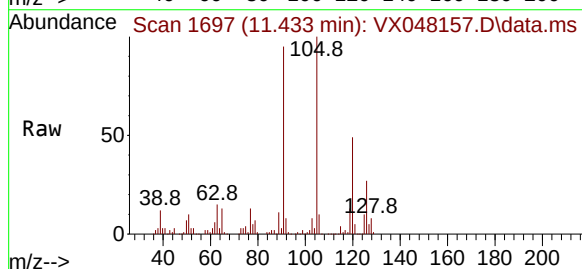
Acq: 14 Oct 2025 11:47

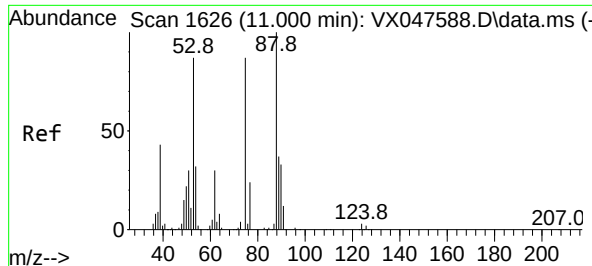
Tgt Ion:105 Resp: 120053

Ion Ratio Lower Upper

105 100

120 48.9 23.6 70.8





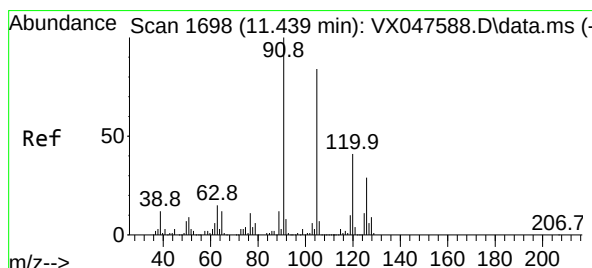
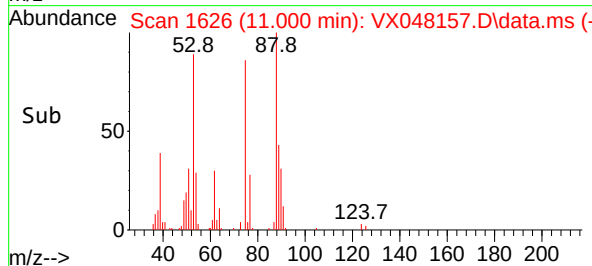
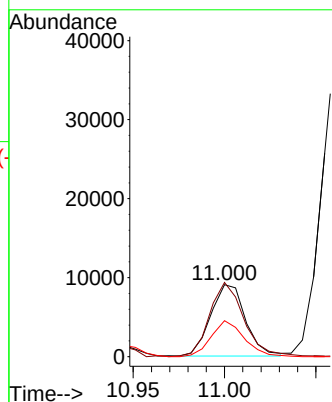
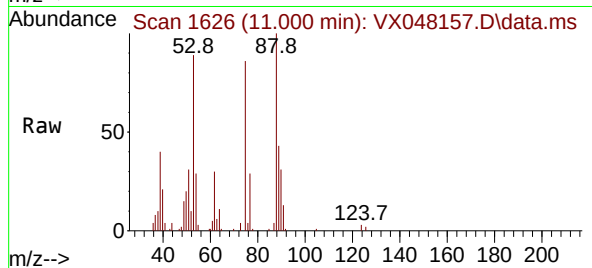
#81
trans-1,4-Dichloro-2-butene
Concen: 14.130 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBSD01

Tgt Ion: 75 Resp: 1196
Ion Ratio Lower Upper
75 100
53 104.0 83.4 125.2
89 48.0 36.3 54.5

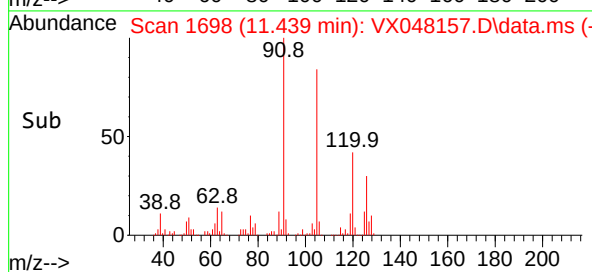
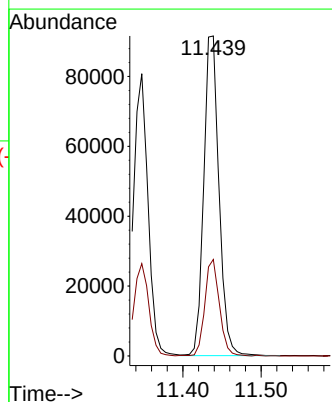
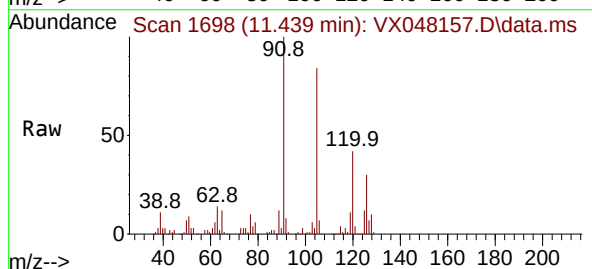
Manual Integrations
APPROVED

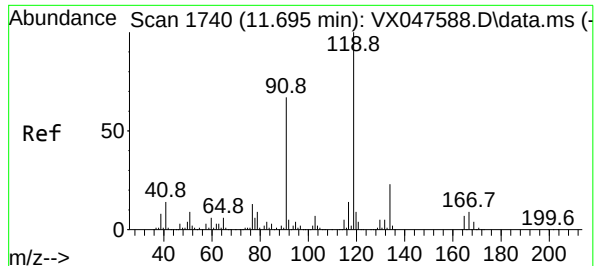
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#82
4-Chlorotoluene
Concen: 17.799 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

Tgt Ion: 91 Resp: 123395
Ion Ratio Lower Upper
91 100
126 28.9 14.2 42.6





#83

tert-Butylbenzene

Concen: 17.495 ug/l

RT: 11.695 min Scan# 119

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion:119 Resp: 11929

Ion Ratio Lower Upper

119 100

91 58.6 29.6 88.8

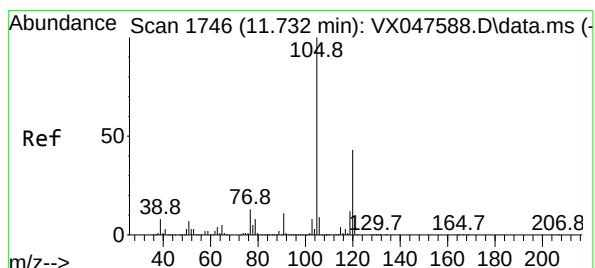
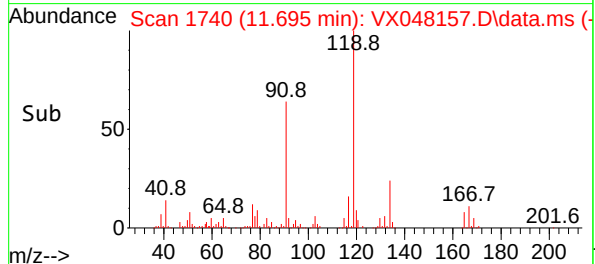
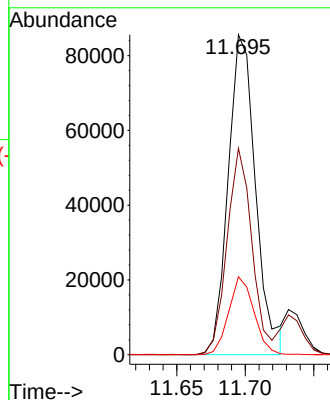
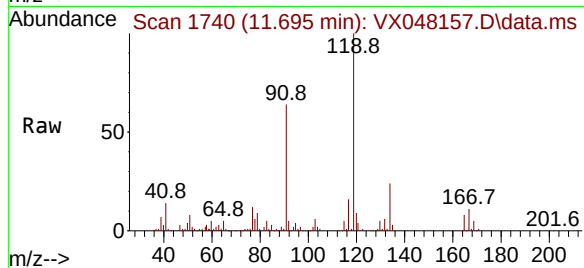
134 22.5 11.0 33.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#84

1,2,4-Trimethylbenzene

Concen: 18.007 ug/l

RT: 11.732 min Scan# 1746

Delta R.T. -0.000 min

Lab File: VX048157.D

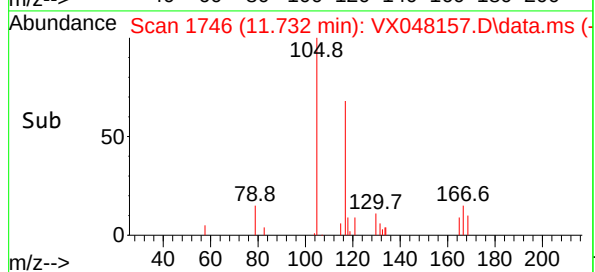
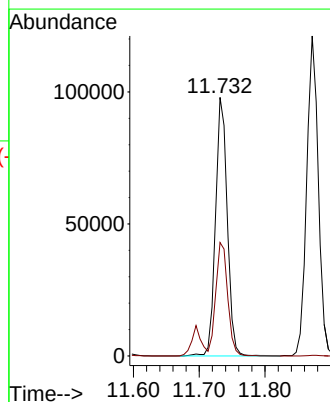
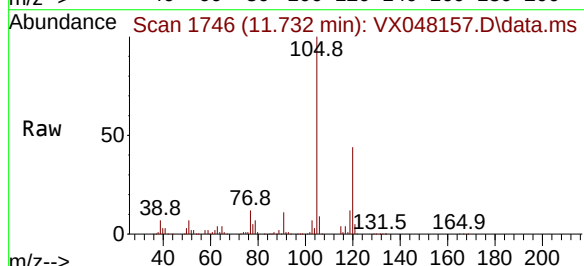
Acq: 14 Oct 2025 11:47

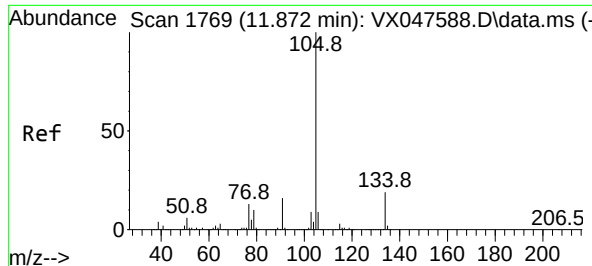
Tgt Ion:105 Resp: 121604

Ion Ratio Lower Upper

105 100

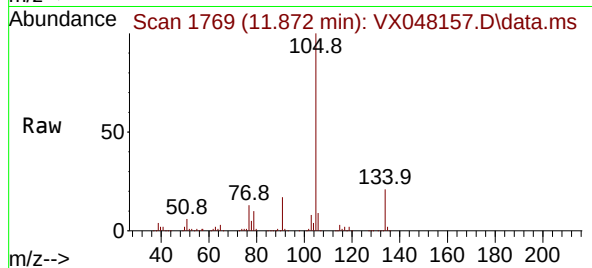
120 44.5 22.1 66.1





#85
sec-Butylbenzene
Concen: 18.371 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

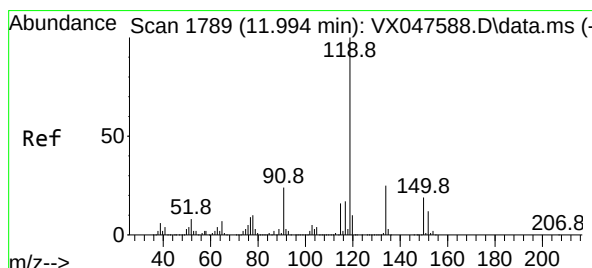
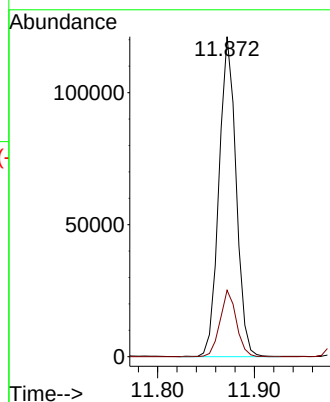
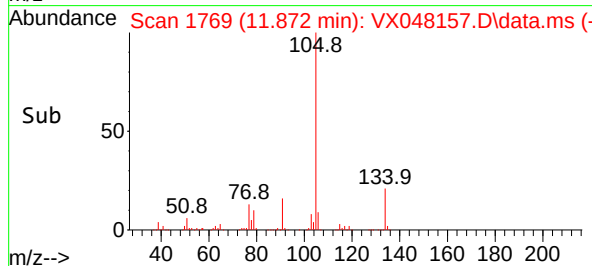
Instrument :
MSVOA_X
ClientSampleId :
VX1014WBSD01



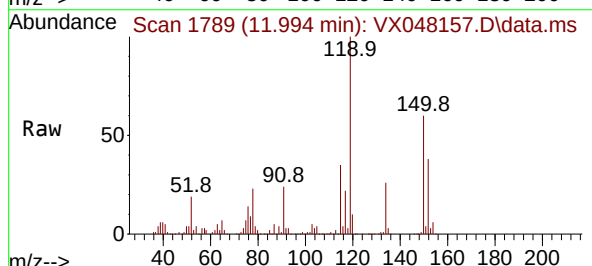
Tgt Ion:105 Resp: 148790
Ion Ratio Lower Upper
105 100
134 19.8 9.8 29.5

Manual Integrations
APPROVED

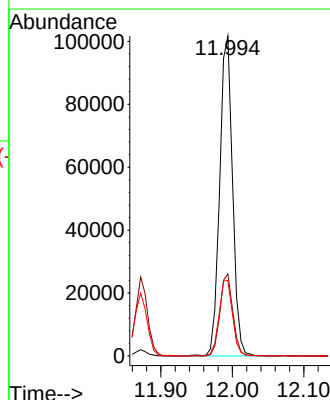
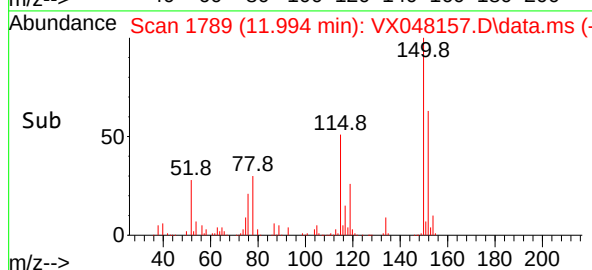
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025

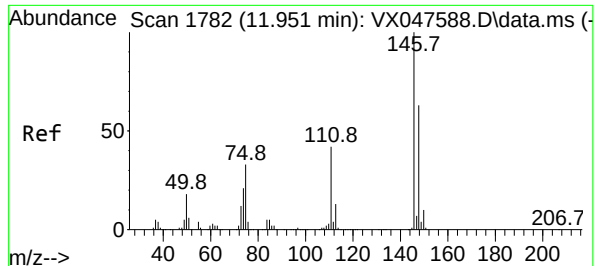


#86
p-Isopropyltoluene
Concen: 18.539 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47



Tgt Ion:119 Resp: 127115
Ion Ratio Lower Upper
119 100
134 25.6 12.6 37.8
91 24.7 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 18.324 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

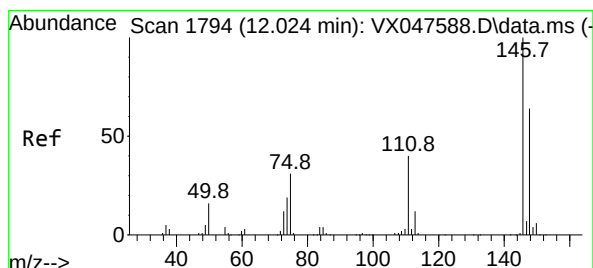
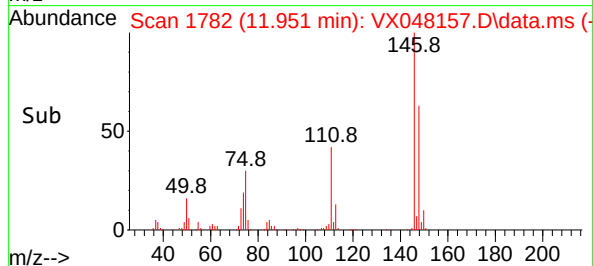
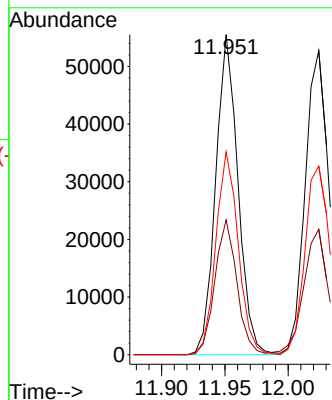
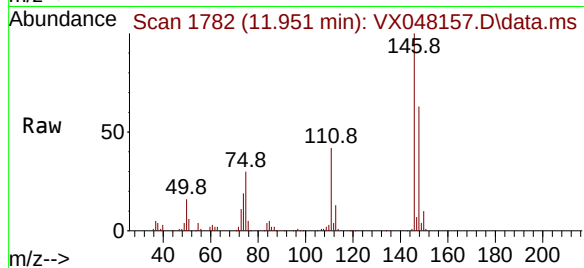
VX1014WBSD01

Tgt Ion:	146	Resp:	67962
Ion Ratio	Lower	Upper	
146	100		
111	41.5	21.5	64.5
148	63.7	32.0	96.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#88

1,4-Dichlorobenzene

Concen: 18.173 ug/l

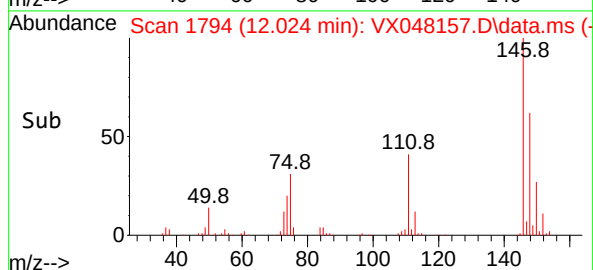
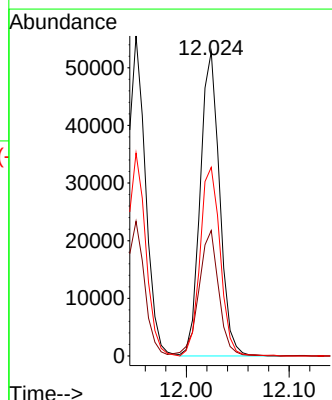
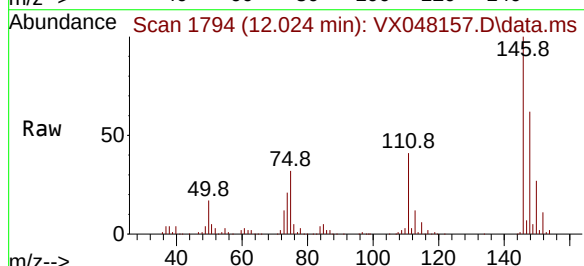
RT: 12.024 min Scan# 1794

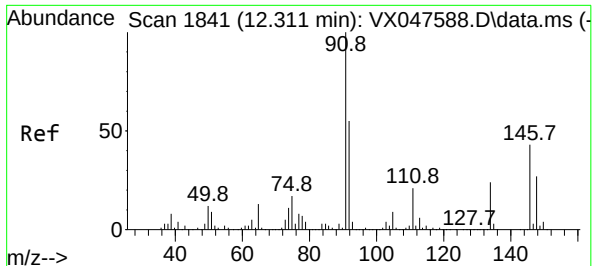
Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Tgt Ion:	146	Resp:	69178
Ion Ratio	Lower	Upper	
146	100		
111	42.4	20.8	62.4
148	64.7	31.7	95.1





#89

n-Butylbenzene

Concen: 18.049 ug/l

RT: 12.317 min Scan# 1842

Delta R.T. 0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion: 91 Resp: 114510

Ion Ratio Lower Upper

91 100

92 53.2 27.6 82.7

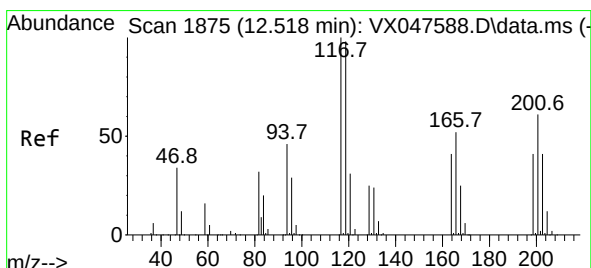
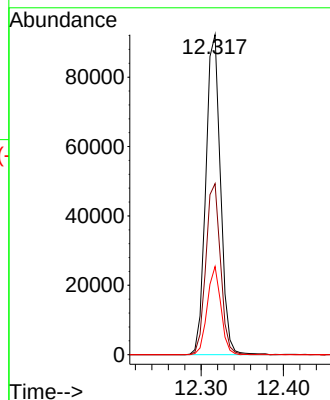
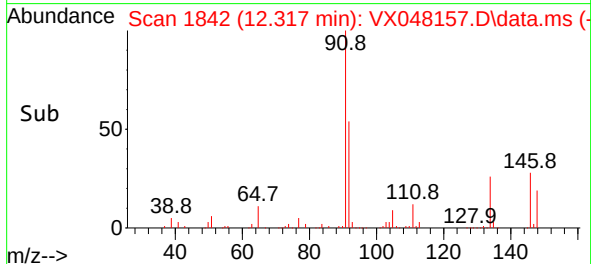
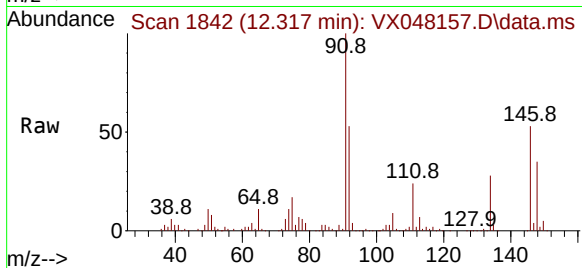
134 25.5 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#90

Hexachloroethane

Concen: 20.427 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX048157.D

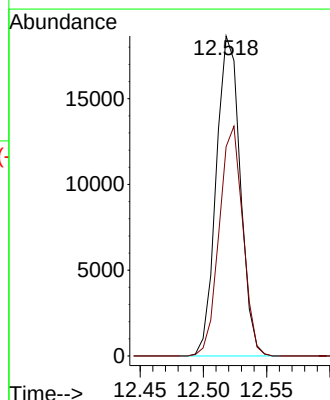
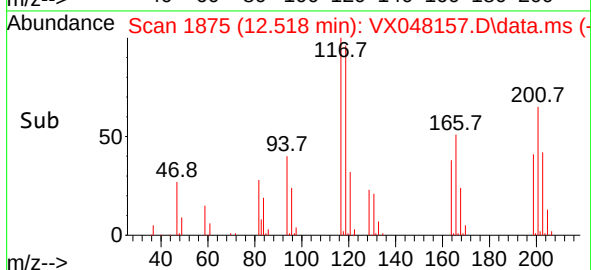
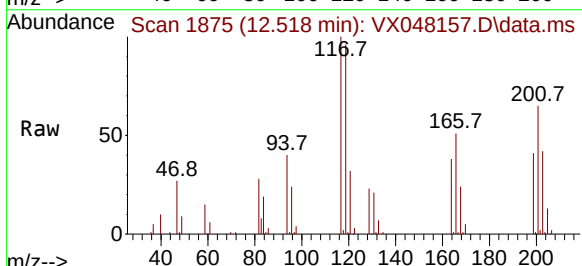
Acq: 14 Oct 2025 11:47

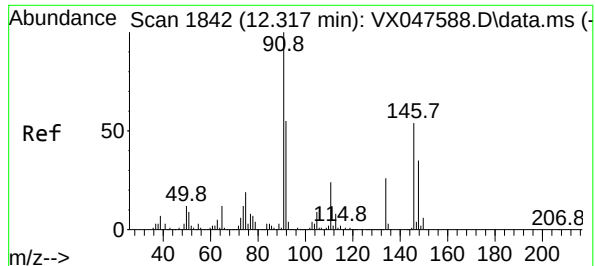
Tgt Ion:117 Resp: 24591

Ion Ratio Lower Upper

117 100

201 70.5 34.2 102.5





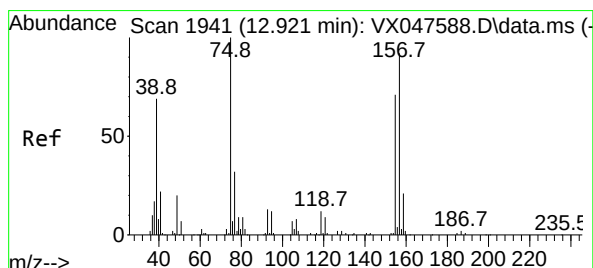
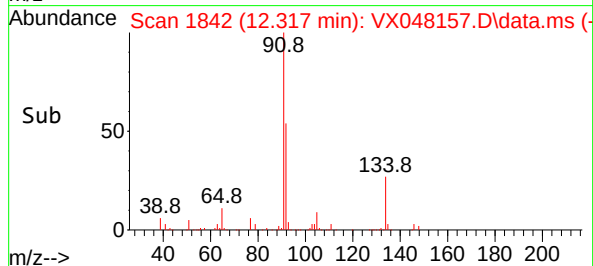
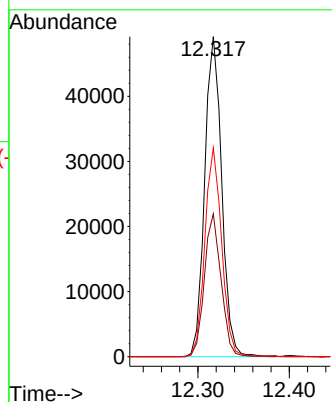
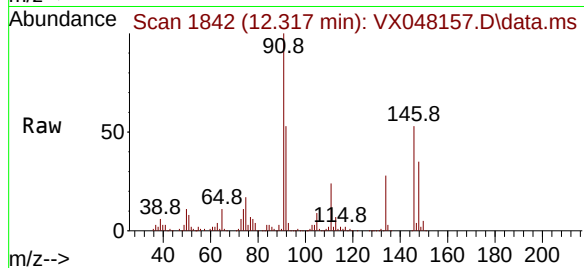
#91
1,2-Dichlorobenzene
Concen: 18.042 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

Instrument :
MSVOA_X
ClientSampleId :
VX1014WBSD01

Tgt Ion:146 Resp: 63752
Ion Ratio Lower Upper
146 100
111 43.7 22.2 66.6
148 64.5 31.8 95.4

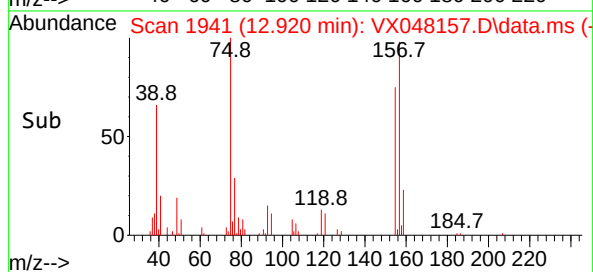
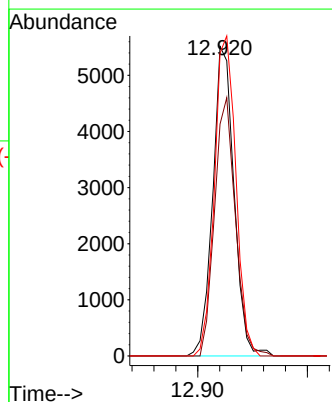
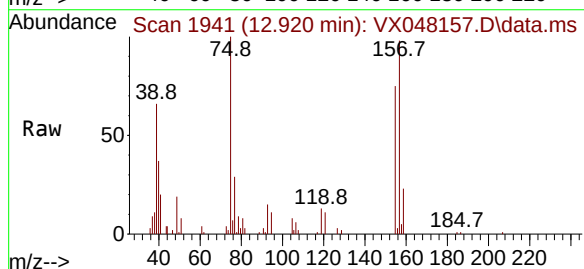
Manual Integrations
APPROVED

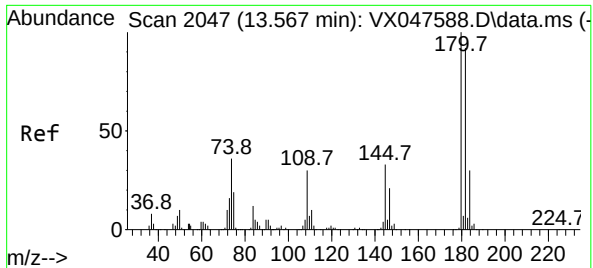
Reviewed By :John Carlone 10/15/2025
Supervised By :Mahesh Dadoda 10/16/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 14.967 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048157.D
Acq: 14 Oct 2025 11:47

Tgt Ion: 75 Resp: 7433
Ion Ratio Lower Upper
75 100
155 81.8 37.7 113.1
157 103.8 49.8 149.4





#93

1,2,4-Trichlorobenzene

Concen: 16.834 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

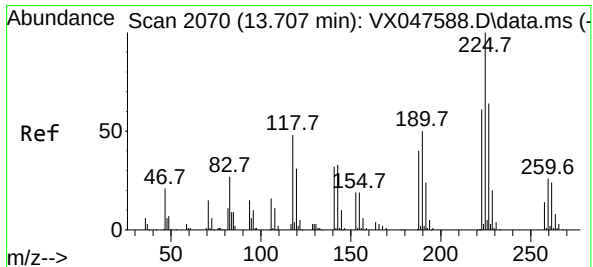
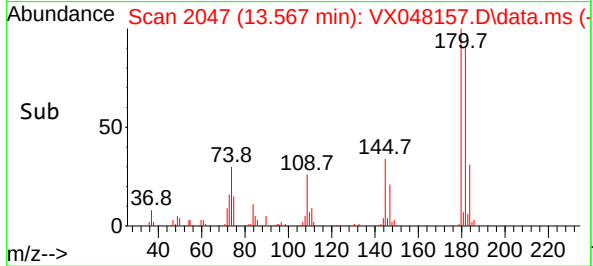
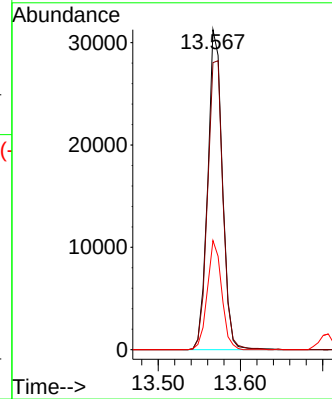
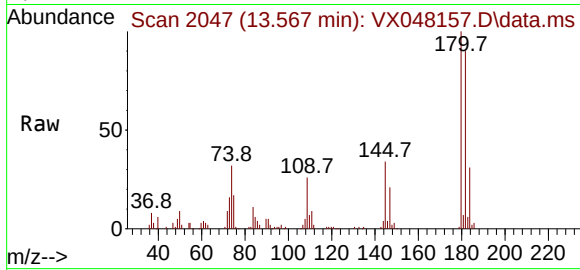
Tgt Ion:180	Resp:	3865
Ion Ratio	Lower	Upper
180	100	
182	94.9	46.6 139.8
145	33.5	16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#94

Hexachlorobutadiene

Concen: 20.254 ug/l

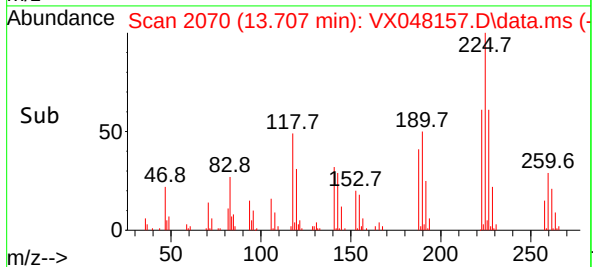
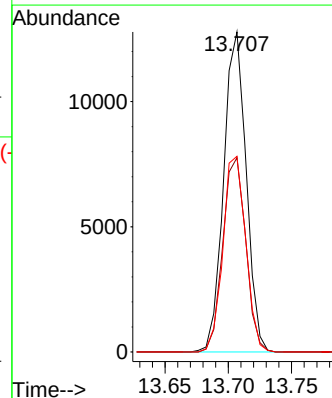
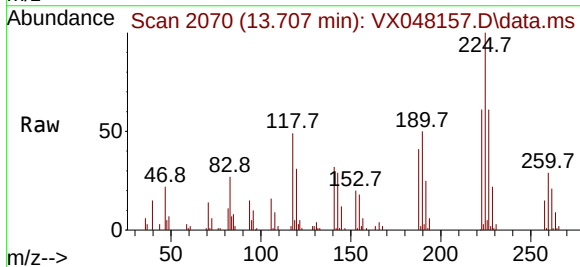
RT: 13.707 min Scan# 2070

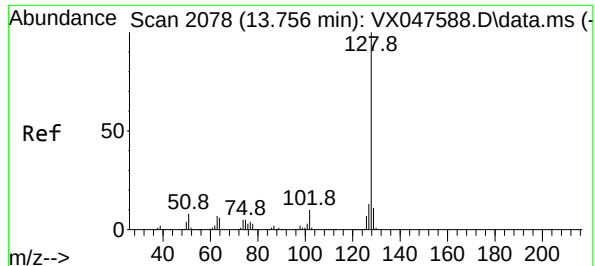
Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Tgt Ion:225	Resp:	15799
Ion Ratio	Lower	Upper
225	100	
223	61.7	31.7 95.1
227	61.9	32.0 96.0





#95

Naphthalene

Concen: 14.698 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. -0.000 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

Instrument :

MSVOA_X

ClientSampleId :

VX1014WBSD01

Tgt Ion:128 Resp: 102780

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.2

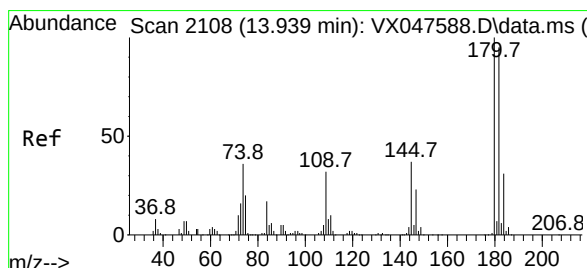
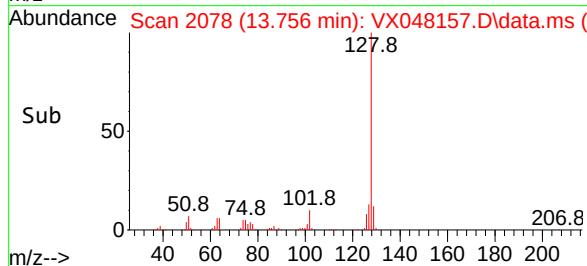
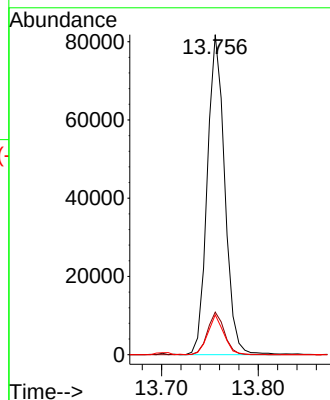
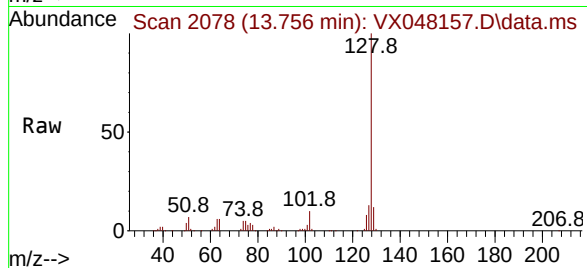
129 11.5 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/15/2025

Supervised By :Mahesh Dadoda 10/16/2025



#96

1,2,3-Trichlorobenzene

Concen: 17.032 ug/l

RT: 13.945 min Scan# 2109

Delta R.T. 0.006 min

Lab File: VX048157.D

Acq: 14 Oct 2025 11:47

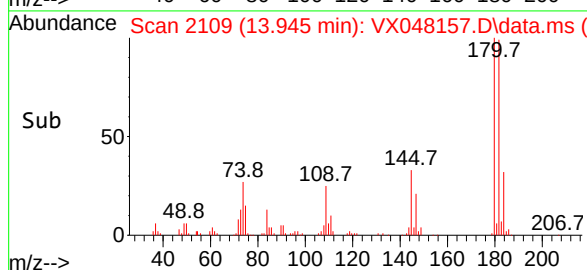
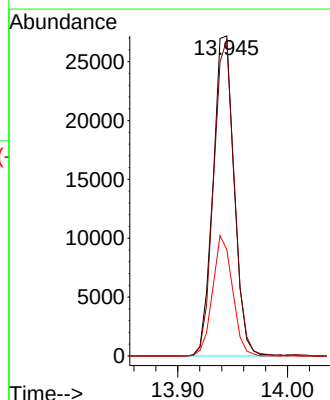
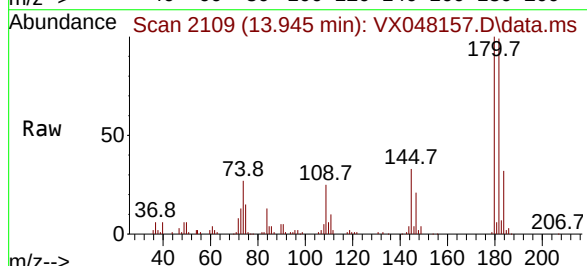
Tgt Ion:180 Resp: 36384

Ion Ratio Lower Upper

180 100

182 96.9 47.6 142.8

145 35.5 17.9 53.7



Manual Integration Report

Sequence:	vx091625	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX047585.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:25:46 AM	MMDadoda	9/18/2025 3:22:10 PM	Peak Integrated by Software
VSTDICC001	VX047585.D	1,4-Dichlorobenzene	JOHN	9/17/2025 8:25:46 AM	MMDadoda	9/18/2025 3:22:10 PM	Peak Integrated by Software
VSTDICC001	VX047585.D	1,4-Dioxane	JOHN	9/17/2025 8:25:46 AM	MMDadoda	9/18/2025 3:22:10 PM	Peak Integrated by Software
VSTDICC005	VX047586.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:25:50 AM	MMDadoda	9/18/2025 3:22:12 PM	Peak Integrated by Software
VSTDICC020	VX047587.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:25:57 AM	MMDadoda	9/18/2025 3:22:15 PM	Peak Integrated by Software
VSTDICCC050	VX047588.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:01 AM	MMDadoda	9/18/2025 3:22:17 PM	Peak Integrated by Software
VSTDICC100	VX047589.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:06 AM	MMDadoda	9/18/2025 3:22:20 PM	Peak Integrated by Software
VSTDICC150	VX047590.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:11 AM	MMDadoda	9/18/2025 3:22:24 PM	Peak Integrated by Software
VSTDICV050	VX047592.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:15 AM	MMDadoda	9/18/2025 3:22:26 PM	Peak Integrated by Software
VSTDCCC050	VX047599.D	1,2,3-Trichloropropane	JOHN	9/17/2025 8:26:34 AM	MMDadoda	9/18/2025 3:22:31 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VX101425	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX048153.D	1,2,3-Trichloropropane	JOHN	10/15/2025 12:05:59 PM	MMDadoda	10/16/2025 2:42:43 AM	Peak Integrated by Software
VX1014WBS01	VX048156.D	1,2,3-Trichloropropane	JOHN	10/15/2025 12:06:03 PM	MMDadoda	10/16/2025 2:42:46 AM	Peak Integrated by Software
VX1014WBSD0 1	VX048157.D	1,2,3-Trichloropropane	JOHN	10/15/2025 12:06:09 PM	MMDadoda	10/16/2025 2:42:49 AM	Peak Integrated by Software
VSTDCCC050	VX048179.D	1,2,3-Trichloropropane	JOHN	10/15/2025 12:07:14 PM	MMDadoda	10/16/2025 2:43:11 AM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX091625

Review By	John Carlone	Review On	9/17/2025 8:27:00 AM
Supervise By	Maresh Dadoda	Supervise On	9/18/2025 3:22:52 PM
SubDirectory	VX091625	HP Acquire Method	HP Processing Method 82X091625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135487		
Initial Calibration Stds	VP135489,VP135490,VP135491,VP135492,VP135493,VP135494		
CCC	VP135488		
Internal Standard/PEM			
ICV/I.BLK	VP135495		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047584.D	16 Sep 2025 08:56	JC/MD	Ok
2	VSTDIC001	VX047585.D	16 Sep 2025 09:23	JC/MD	Ok,M
3	VSTDIC005	VX047586.D	16 Sep 2025 10:16	JC/MD	Ok,M
4	VSTDIC020	VX047587.D	16 Sep 2025 10:37	JC/MD	Ok,M
5	VSTDIC050	VX047588.D	16 Sep 2025 10:58	JC/MD	Ok,M
6	VSTDIC100	VX047589.D	16 Sep 2025 11:40	JC/MD	Ok,M
7	VSTDIC150	VX047590.D	16 Sep 2025 12:01	JC/MD	Ok,M
8	IBLK	VX047591.D	16 Sep 2025 12:22	JC/MD	Ok
9	VSTDICV050	VX047592.D	16 Sep 2025 13:35	JC/MD	Ok,M
10	VX0916MBL01	VX047593.D	16 Sep 2025 14:03	JC/MD	Ok
11	VX0916WBL01	VX047594.D	16 Sep 2025 14:53	JC/MD	Ok
12	VX0916WBS01	VX047595.D	16 Sep 2025 15:21	JC/MD	Ok,M
13	VX0916WBSD01	VX047596.D	16 Sep 2025 15:46	JC/MD	Ok,M
14	Q3015-01	VX047597.D	16 Sep 2025 16:07	JC/MD	Ok,M
15	VIBLK	VX047598.D	16 Sep 2025 16:30	JC/MD	Ok
16	VSTDIC050	VX047599.D	16 Sep 2025 16:51	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QCBatch ID # VX101425

Review By	Mahesh Dadoda	Review On	10/16/2025 2:42:04 AM
Supervise By	Semsettin Yesilyurt	Supervise On	10/16/2025 2:46:27 AM
SubDirectory	VX101425	HP Acquire Method	HP Processing Method 82X091625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135811		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135812,VP135813		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX048152.D	14 Oct 2025 09:33	JC/MD	Ok
2	VSTDCCC050	VX048153.D	14 Oct 2025 10:02	JC/MD	Ok,M
3	VX1014MBL01	VX048154.D	14 Oct 2025 10:32	JC/MD	Ok
4	VX1014WBL01	VX048155.D	14 Oct 2025 10:52	JC/MD	Ok
5	VX1014WBS01	VX048156.D	14 Oct 2025 11:20	JC/MD	Ok,M
6	VX1014WBSD01	VX048157.D	14 Oct 2025 11:47	JC/MD	Ok,M
7	Q3311-13DL	VX048158.D	14 Oct 2025 12:28	JC/MD	Not Ok
8	Q3311-14	VX048159.D	14 Oct 2025 12:49	JC/MD	ReRun
9	Q3311-14DL	VX048160.D	14 Oct 2025 13:09	JC/MD	ReRun
10	Q3311-15	VX048161.D	14 Oct 2025 13:30	JC/MD	ReRun
11	Q3312-01	VX048162.D	14 Oct 2025 13:50	JC/MD	Not Ok
12	VX1014MBS01	VX048163.D	14 Oct 2025 14:11	JC/MD	Ok,M
13	VX1014MBSD01	VX048164.D	14 Oct 2025 14:31	JC/MD	Ok,M
14	Q3276-01	VX048165.D	14 Oct 2025 14:52	JC/MD	Not Ok
15	Q3276-02	VX048166.D	14 Oct 2025 15:13	JC/MD	Ok,M
16	IBLK	VX048167.D	14 Oct 2025 15:33	JC/MD	Ok
17	Q3276-01	VX048168.D	14 Oct 2025 15:54	JC/MD	Ok
18	IBLK	VX048169.D	14 Oct 2025 16:14	JC/MD	Ok
19	Q3345-07	VX048170.D	14 Oct 2025 16:35	JC/MD	Ok
20	Q3312-01	VX048171.D	14 Oct 2025 16:56	JC/MD	Ok
21	Q3325-07	VX048172.D	14 Oct 2025 17:16	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QCBatch ID # VX101425

Review By	Mahesh Dadoda	Review On	10/16/2025 2:42:04 AM
Supervise By	Semsettin Yesilyurt	Supervise On	10/16/2025 2:46:27 AM
SubDirectory	VX101425	HP Acquire Method	HP Processing Method 82X091625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135811		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135812,VP135813		

22	Q3325-08	VX048173.D	14 Oct 2025 17:37	JC/MD	Ok
23	Q3325-09	VX048174.D	14 Oct 2025 17:57	JC/MD	Ok
24	Q3325-10	VX048175.D	14 Oct 2025 18:18	JC/MD	Ok
25	Q3311-02	VX048176.D	14 Oct 2025 18:38	JC/MD	ReRun
26	Q3311-03MS	VX048177.D	14 Oct 2025 18:59	JC/MD	Ok,M
27	Q3311-04MSD	VX048178.D	14 Oct 2025 19:20	JC/MD	Ok,M
28	VSTDCCC050	VX048179.D	14 Oct 2025 19:40	JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX091625

Review By	John Carlone	Review On	9/17/2025 8:27:00 AM
Supervise By	Mahesh Dadoda	Supervise On	9/18/2025 3:22:52 PM
SubDirectory	VX091625	HP Acquire Method	HP Processing Method 82X091625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135487		
Initial Calibration Stds	VP135489,VP135490,VP135491,VP135492,VP135493,VP135494		
CCC	VP135488		
Internal Standard/PEM			
ICV/I.BLK	VP135495		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047584.D	16 Sep 2025 08:56		JC/MD	Ok
2	VSTDIC001	VSTDIC001	VX047585.D	16 Sep 2025 09:23		JC/MD	Ok,M
3	VSTDIC005	VSTDIC005	VX047586.D	16 Sep 2025 10:16	QR-58	JC/MD	Ok,M
4	VSTDIC020	VSTDIC020	VX047587.D	16 Sep 2025 10:37		JC/MD	Ok,M
5	VSTDIC050	VSTDIC050	VX047588.D	16 Sep 2025 10:58		JC/MD	Ok,M
6	VSTDIC100	VSTDIC100	VX047589.D	16 Sep 2025 11:40		JC/MD	Ok,M
7	VSTDIC150	VSTDIC150	VX047590.D	16 Sep 2025 12:01		JC/MD	Ok,M
8	IBLK	IBLK	VX047591.D	16 Sep 2025 12:22		JC/MD	Ok
9	VSTDICV050	ICVVX091625	VX047592.D	16 Sep 2025 13:35		JC/MD	Ok,M
10	VX0916MBL01	VX0916MBL01	VX047593.D	16 Sep 2025 14:03		JC/MD	Ok
11	VX0916WBL01	VX0916WBL01	VX047594.D	16 Sep 2025 14:53		JC/MD	Ok
12	VX0916WBS01	VX0916WBS01	VX047595.D	16 Sep 2025 15:21		JC/MD	Ok,M
13	VX0916WBSD01	VX0916WBSD01	VX047596.D	16 Sep 2025 15:46		JC/MD	Ok,M
14	Q3015-01	WP0925-PT-VOA-WP	VX047597.D	16 Sep 2025 16:07		JC/MD	Ok,M
15	VIBLK	VIBLK	VX047598.D	16 Sep 2025 16:30		JC/MD	Ok
16	VSTDIC050	VSTDIC050EC	VX047599.D	16 Sep 2025 16:51		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX101425

Review By	Maresh Dadoda	Review On	10/16/2025 2:42:04 AM
Supervise By	Semsettin Yesilyurt	Supervise On	10/16/2025 2:46:27 AM
SubDirectory	VX101425	HP Acquire Method	HP Processing Method 82X091625W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP135811
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135812,VP135813

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX048152.D	14 Oct 2025 09:33		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX048153.D	14 Oct 2025 10:02		JC/MD	Ok,M
3	VX1014MBL01	VX1014MBL01	VX048154.D	14 Oct 2025 10:32		JC/MD	Ok
4	VX1014WBL01	VX1014WBL01	VX048155.D	14 Oct 2025 10:52		JC/MD	Ok
5	VX1014WBS01	VX1014WBS01	VX048156.D	14 Oct 2025 11:20	Recovery failed low for comp. #18,19	JC/MD	Ok,M
6	VX1014WBSD01	VX1014WBSD01	VX048157.D	14 Oct 2025 11:47	Recovery failed low for comp. #18	JC/MD	Ok,M
7	Q3311-13DL	MW-215DDL	VX048158.D	14 Oct 2025 12:28	Not match	JC/MD	Not Ok
8	Q3311-14	MW-227B	VX048159.D	14 Oct 2025 12:49	Need 5X;BS failed low	JC/MD	ReRun
9	Q3311-14DL	MW-227BDL	VX048160.D	14 Oct 2025 13:09	BS failed low	JC/MD	ReRun
10	Q3311-15	GW-DUP	VX048161.D	14 Oct 2025 13:30	BS failed low	JC/MD	ReRun
11	Q3312-01	362Kingsland-001S	VX048162.D	14 Oct 2025 13:50	Need Straight Run	JC/MD	Not Ok
12	VX1014MBS01	VX1014MBS01	VX048163.D	14 Oct 2025 14:11	Recovery failed low for comp. #73,93	JC/MD	Ok,M
13	VX1014MBSD01	VX1014MBSD01	VX048164.D	14 Oct 2025 14:31		JC/MD	Ok,M
14	Q3276-01	SB2	VX048165.D	14 Oct 2025 14:52	Need Straight Run	JC/MD	Not Ok
15	Q3276-02	SB2A	VX048166.D	14 Oct 2025 15:13	MBS failed low	JC/MD	Ok,M
16	IBLK	IBLK	VX048167.D	14 Oct 2025 15:33		JC/MD	Ok
17	Q3276-01	SB2	VX048168.D	14 Oct 2025 15:54	MBS failed low	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX101425

Review By	Maresh Dadoda	Review On	10/16/2025 2:42:04 AM
Supervise By	Semsettin Yesilyurt	Supervise On	10/16/2025 2:46:27 AM
SubDirectory	VX101425	HP Acquire Method	HP Processing Method 82X091625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135811		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135812,VP135813		

18	IBLK	IBLK	VX048169.D	14 Oct 2025 16:14		JC/MD	Ok
19	Q3345-07	TANK-FARM-WATER	VX048170.D	14 Oct 2025 16:35		JC/MD	Ok
20	Q3312-01	362Kingsland-001S	VX048171.D	14 Oct 2025 16:56		JC/MD	Ok
21	Q3325-07	STORAGE-BLANK-SAI	VX048172.D	14 Oct 2025 17:16		JC/MD	Ok
22	Q3325-08	STORAGE-BLANK-WA	VX048173.D	14 Oct 2025 17:37		JC/MD	Ok
23	Q3325-09	STORAGE-BLANK-WA	VX048174.D	14 Oct 2025 17:57		JC/MD	Ok
24	Q3325-10	STORAGE-BLANK-SAI	VX048175.D	14 Oct 2025 18:18		JC/MD	Ok
25	Q3311-02	MW-219	VX048176.D	14 Oct 2025 18:38	BS failed low	JC/MD	ReRun
26	Q3311-03MS	MW-219MS	VX048177.D	14 Oct 2025 18:59		JC/MD	Ok,M
27	Q3311-04MSD	MW-219MSD	VX048178.D	14 Oct 2025 19:20		JC/MD	Ok,M
28	VSTDCCC050	VSTDCCC050EC	VX048179.D	14 Oct 2025 19:40		JC/MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q3312

Test : VOC-BTEX

Prepbatch ID :

Sequence ID/Qc Batch ID: VX101425,

Standard ID :

VP134142,VP134149,VP134933,VP134956,VP134957,VP135480,VP135552,VP135811,VP135812,VP135813,

Chemical ID :

V13391,V14200,V14204,V14205,V14290,V14509,V14510,V14531,V14532,V14625,V14626,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14727,V14728,V14803,V14815,V14844,V14906,V14928,V14929,V14951,V14952,V15066,V15067,V15068,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>
719	8260 Working STD (BCM)-First source, 400PPM	VP134142	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/10/2025

FROM 1.00000ml of V14668 + 1.00000ml of V14671 + 1.00000ml of V14673 + 1.00000ml of V14675 + 16.00000ml of V14929 = Final
Quantity: 20.000 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	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/10/2025

FROM 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = 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>
617	8260 Surrogate, 400PPM	VP134933	07/29/2025	01/29/2026	Semsettin Yesilyurt	None	None	Maresh Dadoda
08/19/2025								

FROM 0.40000ml of V14906 + 24.60000ml of V14625 = 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	VP134956	08/01/2025	11/09/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
08/06/2025								

FROM 0.25000ml of V14290 + 24.75000ml of V14626 = 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>
218	BFB, 25PPM	VP134957	08/01/2025	11/22/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								08/06/2025

FROM 0.50000ml of V13391 + 49.50000ml of V14625 = 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>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP135480	09/16/2025	10/15/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								09/19/2025

FROM 1.00000ml of V15066 + 1.50000ml of V15067 + 1.50000ml of V15068 + 21.00000ml of V14625 = 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	VP135552	09/22/2025	11/03/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 09/26/2025

FROM 0.40000ml of V14844 + 1.00000ml of V14200 + 1.00000ml of V14509 + 1.00000ml of V14510 + 1.00000ml of V14531 + 1.00000ml of V14532 + 1.00000ml of V14727 + 1.00000ml of V14728 + 1.00000ml of V14803 + 1.00000ml of V14815 + 1.00000ml of V14951 + 1.00000ml of V14952 + 1.50000ml of V14204 + 1.50000ml of V14205 + 10.60000ml of V14928 = 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	VP135811	10/14/2025	10/15/2025	John Carlone	None	None	Maresh Dadoda 10/16/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP134957 = Final Quantity: 40.000 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>
620	50 PPB CCC, 8260-Water	VP135812	10/14/2025	10/15/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 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>
620	50 PPB CCC, 8260-Water	VP135813	10/14/2025	10/15/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = 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	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14200

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	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14204

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	A0200785	03/22/2026	09/22/2025 / sam	02/28/2024 / SAM	V14205

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	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

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	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14509

CHEMICAL RECEIPT LOG BOOK

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	03/22/2026	09/22/2025 / sam	09/17/2024 / SAM	V14510

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	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14531

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	03/22/2026	09/22/2025 / sam	09/18/2024 / SAM	V14532

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)	2310762004	01/29/2026	07/29/2025 / SAM	11/26/2024 / SAM	V14625

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)	2310762004	11/09/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14626

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14638

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14639

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	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14668

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	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14671

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	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14673

CHEMICAL RECEIPT LOG BOOK

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	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14675

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	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14727

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	03/22/2026	09/22/2025 / sam	12/17/2024 / SAM	V14728

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	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14803

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	03/22/2026	09/22/2025 / sam	01/08/2025 / SAM	V14815

LOTS

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	A0217535	03/22/2026	09/22/2025 / sam	01/21/2025 / SAM	V14844

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]	A0223904	07/29/2026	07/29/2025 / SAM	03/24/2025 / SAM	V14906

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)	24G0262002	03/22/2026	09/22/2025 / sam	05/09/2025 / SAM	V14928

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)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

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	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14951

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	A0222076	03/22/2026	09/22/2025 / sam	05/19/2025 / SAM	V14952

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15066

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)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15067

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	091525	10/15/2025	09/16/2025 / sam	09/16/2025 / sam	V15068

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
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Certificate of Analysis

Test	Specification	Result
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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



Ree 03117/24

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#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(KME)	Lot	DR	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
														(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
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)	102396	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 disulfide	(0060)	MKCR8561	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	0.21056	0.21069	2001.1	8.5	1478-11-6	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP9041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000C	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)	06128PX	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)	SHBF8718V	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 3460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 120mg/kg
11. Methyl acrylate	(0755)	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)	MKGW6137V	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 787mg/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)	HG02JXK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Pentachloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18990	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	78-13-1	1000 ppm (7600mg/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 915mg/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 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	or-rat 848mg/kg
20. trans-1,2-Dichloroethene	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-Dichloroethane	35171	101623	0.05	5.00	40003.2	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.2	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	20004.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/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 106mg/kg
27. 1,1-Trichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	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	20.5	75-34-3	100 ppm	N/A
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	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 (1800mg/m3/8H)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	86-12-8	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-93-4	20 ppm (8H)	or-rat 108mg/kg
33. 1,2-Dichloropropane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg
34. 1,2-Dichloroethane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1847mg/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	or-rat 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	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	40017.6	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	830-20-6	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 (45mg/m3/8H) (skin)	or-rat 936mg/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-mus 2402mg/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	98-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg
45. Benzene	35162	050823	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	or-rat 2699mg/kg
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	1999.8	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	40004.8	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	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	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	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	N/A	or-rat 5000mg/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	109-38-3	100 ppm (435mg/m3/8H)	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	96-06-6	N/A	N/A
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	1999.7	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	40003.3	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	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-rat 1062mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-46-7	75 ppm (450mg/m3/8H)	or-r

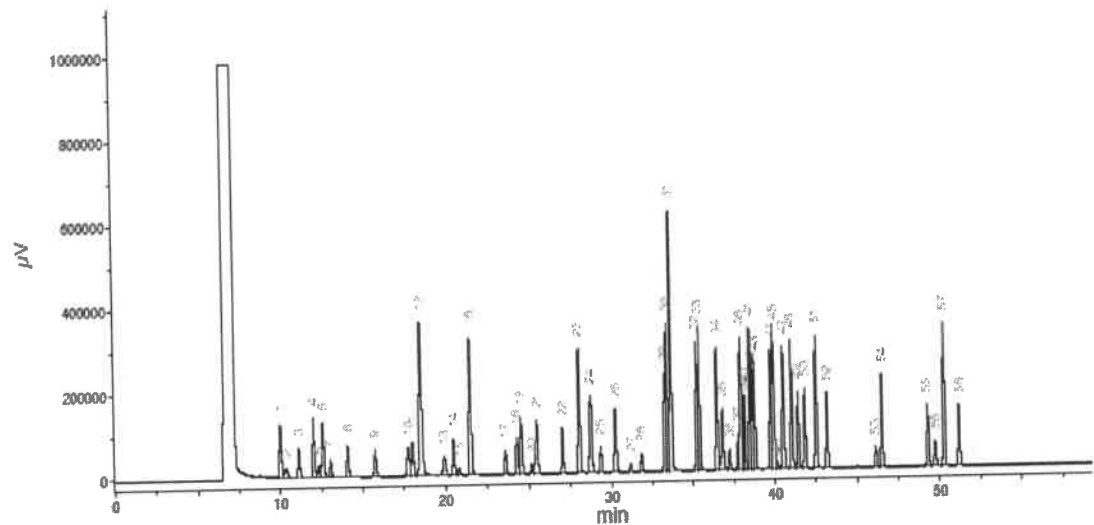


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

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	10.53
3	1,1-Dichloroethane	11.10
4	Acetone	12.00
5	Isodimethane	12.21
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	17.74
11	cis-1,2-Dichloroethane	18.00
12	Hexamethylcyclotriphosphazene/Hexyl acrylate/Chloroform	18.49
13	Isobutene/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.13
21	Dibromomethane/2,2-Dichloropropane	25.46
22	cis-1,2-Dichloroethane	27.07
23	Toluene	28.03
24	Ethyl methacrylate/Trans-1,2-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethane/1,2-Dichloropropane	30.94
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	32.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.53
33	Styrene	35.70
34	Isopropylbenzene/Bromofarm	35.78
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,2-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.62
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,3,5-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Trichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trichlorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
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, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225
H370
P271
P302,332Highly Flammable Liquid and Vapor
Cause damage to organs
Use in ventilated area
If on skin, wash with soap and waterH301, 311, 331
H351
P280
P305,351,338Toxic if swallowed, skin contact, inhaled
Suspected of causing cancer
Use gloves, eye protection/face shield
If in eyes, remove contacts, rinse with water

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))
Methanol METHYL ALCOHOL

CAS#: 67-56-1

% (optional)
> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice

If inhaled

In case of skin contact

In case of eye contact

If swallowed

Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Wash with soap and water. Consult a physician.
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
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.



Ree 03117/24

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#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

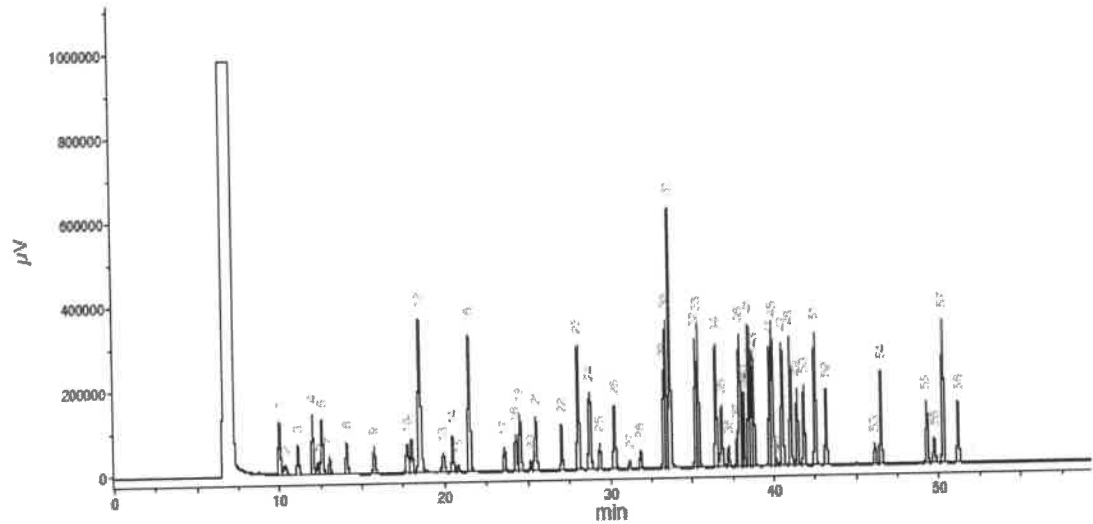
Compound	(KME)	Lot	DR	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
														(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	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 disulfide	(0060)	MKCR8561	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	0.21056	0.21069	2001.1	8.5	1478-11-6	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP9041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000C	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)	06128PX	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)	SHBF8718V	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 75mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 3460mg/kg
11. Methyl acrylate	(0755)	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 120mg/kg
12. Methyl methacrylate	(0404)	MKGW6137V	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 277mg/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 787mg/kg
14. 2-Nitropropane	(0461)	HG02JXK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Pentachloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18990	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	78-13-1	1000 ppm (7600mg/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 915mg/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 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	158-59-2	N/A	or-rat 848mg/kg
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	158-60-5	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-Dichloroethane	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	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 933mg/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	20002.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/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 106mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	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	20.5	75-34-3	100 ppm	N/A
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	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	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	86-12-8	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-83-4	20 ppm (8H)	or-rat 108mg/kg
33. 1,2-Dichloropropane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg
34. 1,2-Dichloroethane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1847mg/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	or-rat 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	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	10081-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10081-02-6	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	830-20-6	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 (45mg/m3/8H) (skin)	or-rat 936mg/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-mus 2402mg/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	98-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg
45. Benzene	35162	050823	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	or-rat 2699mg/kg
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	40004.8	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	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	N/A	or-mus 1390mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	N/A	or-rat 5000mg/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	109-38-3	100 ppm (435mg/m3/8H)	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	96-06-6	N/A	N/A
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	1999.7	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	40003.3	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	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-mus 1060mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-46-7	75 ppm (450mg/m3/8H)	or



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	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.60
5	Iodomethane	12.91
6	Allyl chloride	12.96
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	Hexamethylcyclotriphosphazene/Hexyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromodichloromethane	25.46
21	Dibromomethane/2,2-Dichloropropane	27.07
22	cis-1,2-Dichloroethane	28.03
23	Toluene	28.73
24	Ethyl methacrylate/Trans-1,2-Dichloroethane	29.34
25	1,1,2-Trichloroethane	30.94
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	32.84
28	1,2-Dibromomethane	33.26
29	Chlorobenzene	33.40
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.85
31	m-Xylene/p-Xylene	35.53
32	o-Xylene	35.70
33	Styrene	35.79
34	Isopropylbenzene/Bromofarm	36.48
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,2-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,3,5-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Trichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
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, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water

			Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol METHYL ALCOHOL	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

2 vlog



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
<https://Absolutestandards.com>

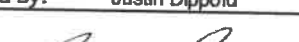
CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water
Lot# 072324Q

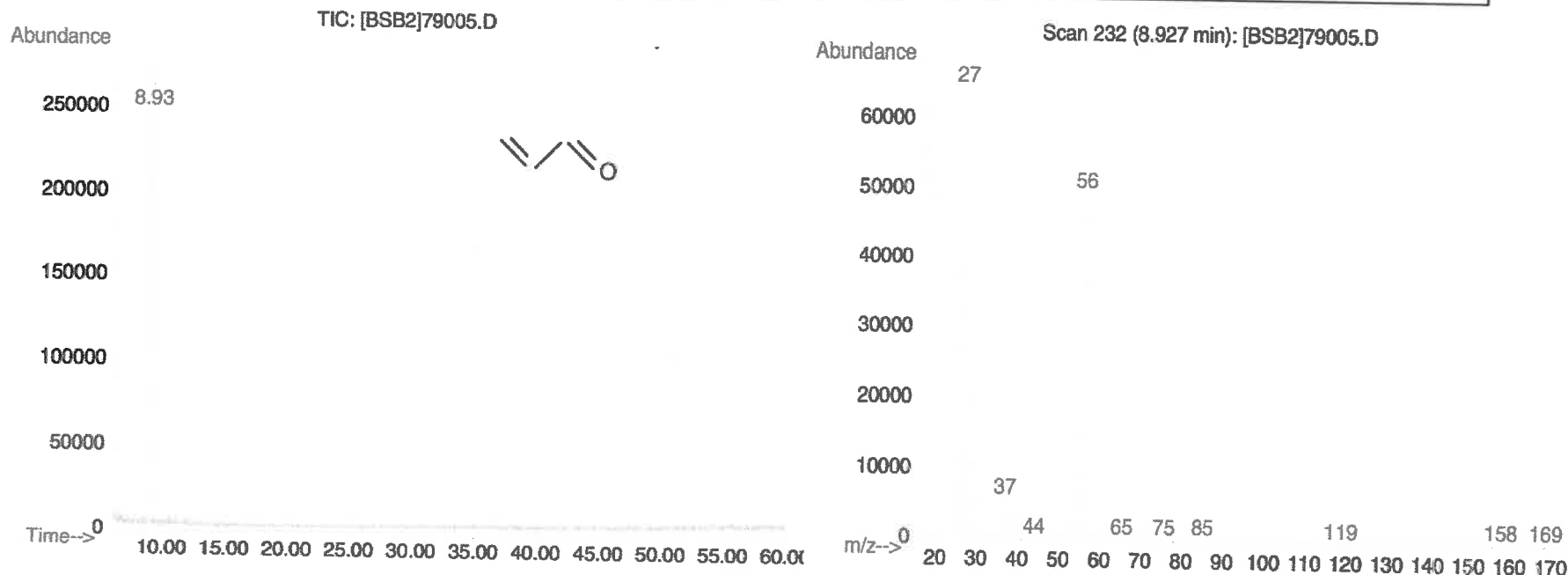
Expiration Date:	101424
Recommended Storage:	Refrigerate (4 °C)
Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Weight(s) shown below were combined and diluted to (mL):	10.0	0.001	Flask Uncertainty

		091424
Formulated By:	Justin Dippold	DATE
		091424
Reviewed By:	Pedro L. Rentas	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.)		
										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: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: 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.



- 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

2 vlog



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
<https://Absolutestandards.com>

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Water
Lot# 072324Q

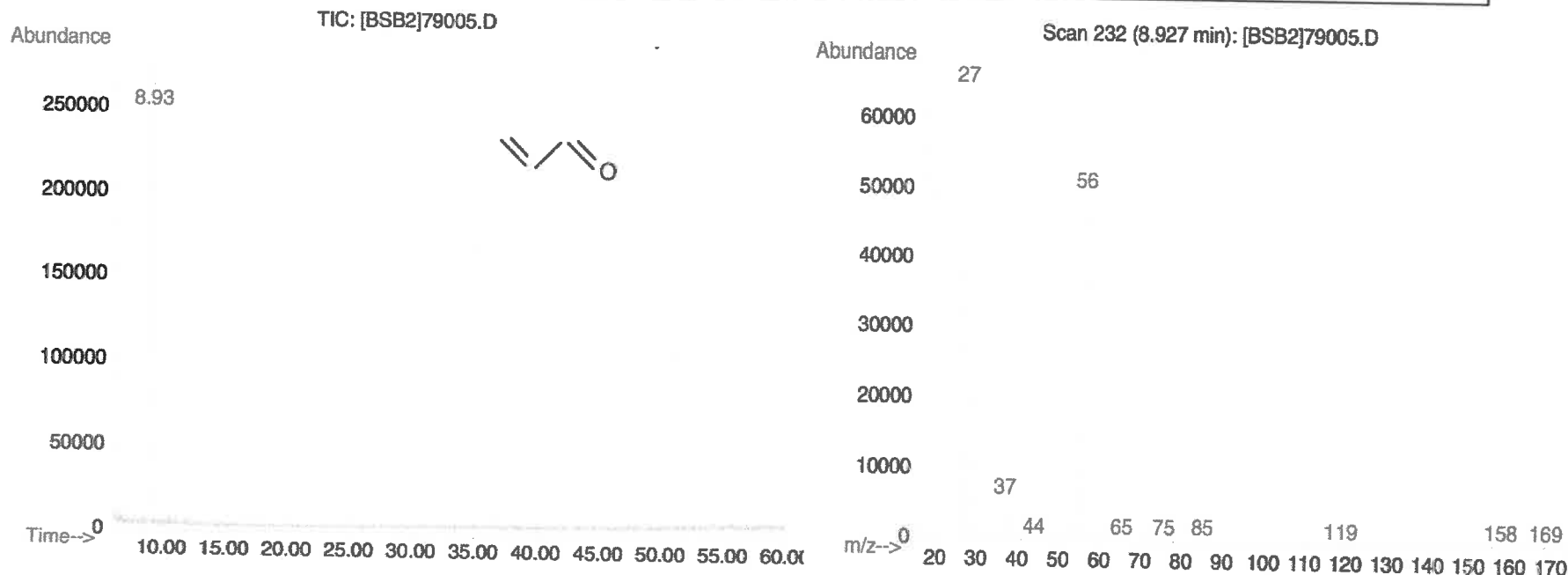
Expiration Date:	101424
Recommended Storage:	Refrigerate (4 °C)
Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Weight(s) shown below were combined and diluted to (mL):	10.0	0.001	Flask Uncertainty

		091424
Formulated By:	Justin Dippold	DATE
		091424
Reviewed By:	Pedro L. Rentas	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.)		
										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: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: 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.



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- 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



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

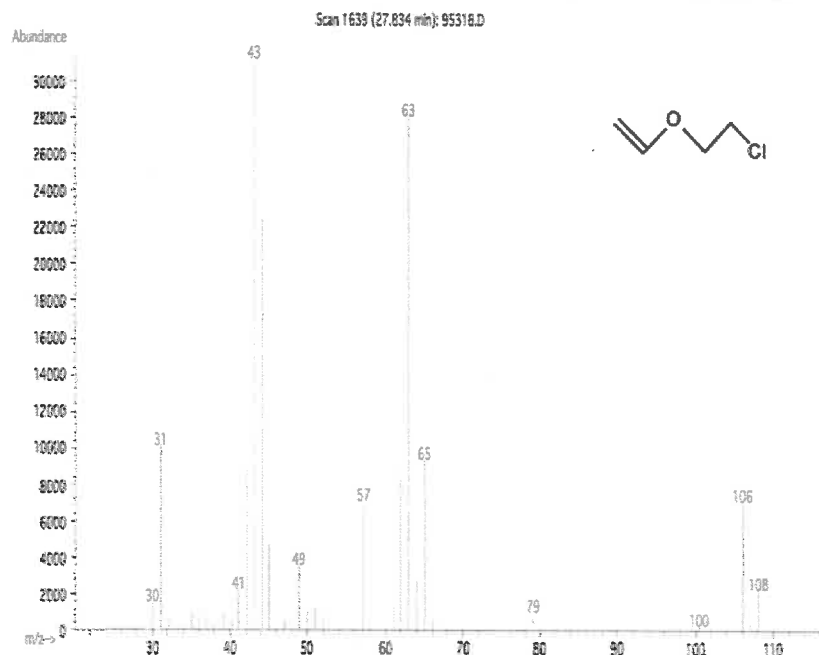
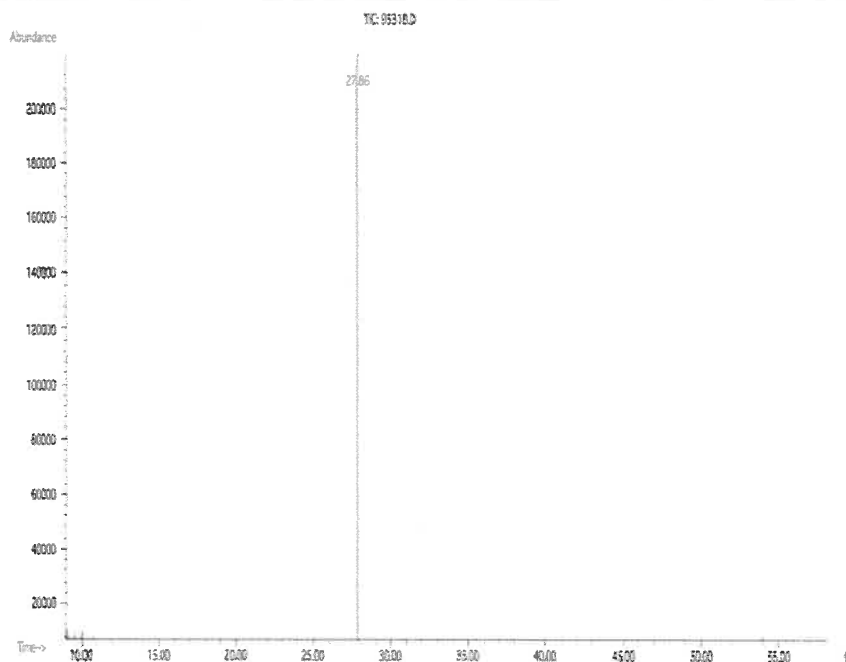
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

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.)		
										CAS#	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	ori-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	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 Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

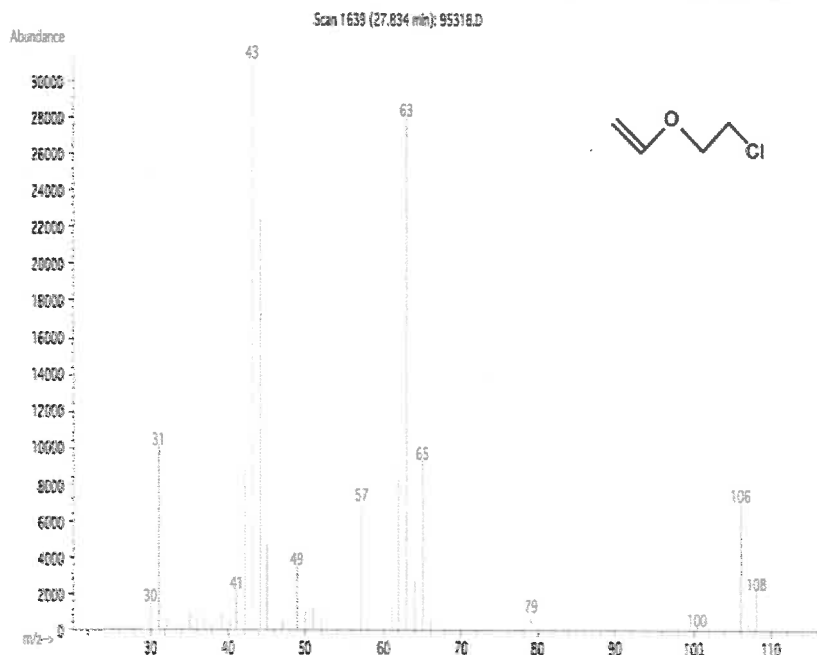
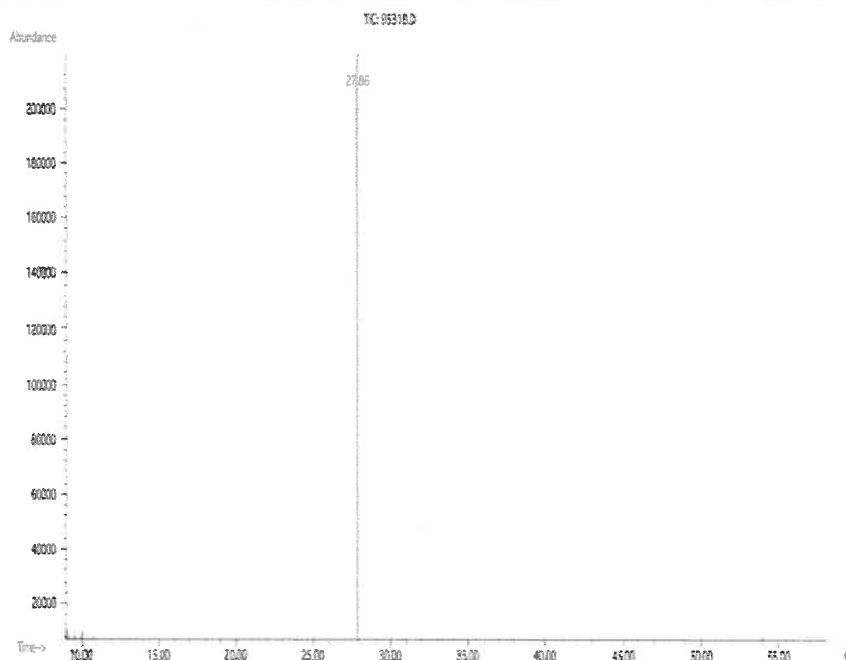
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

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.)		
										CAS#	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	ori-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	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 Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

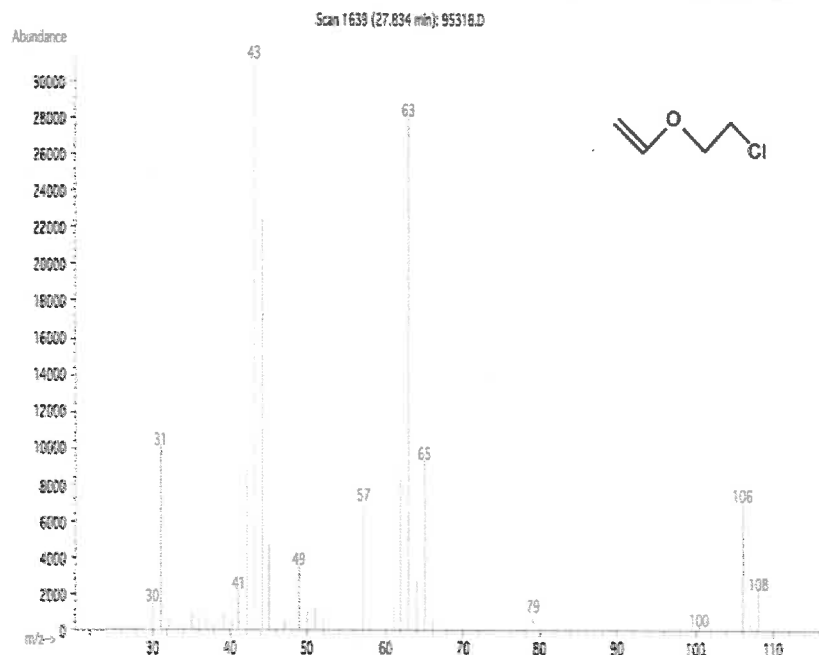
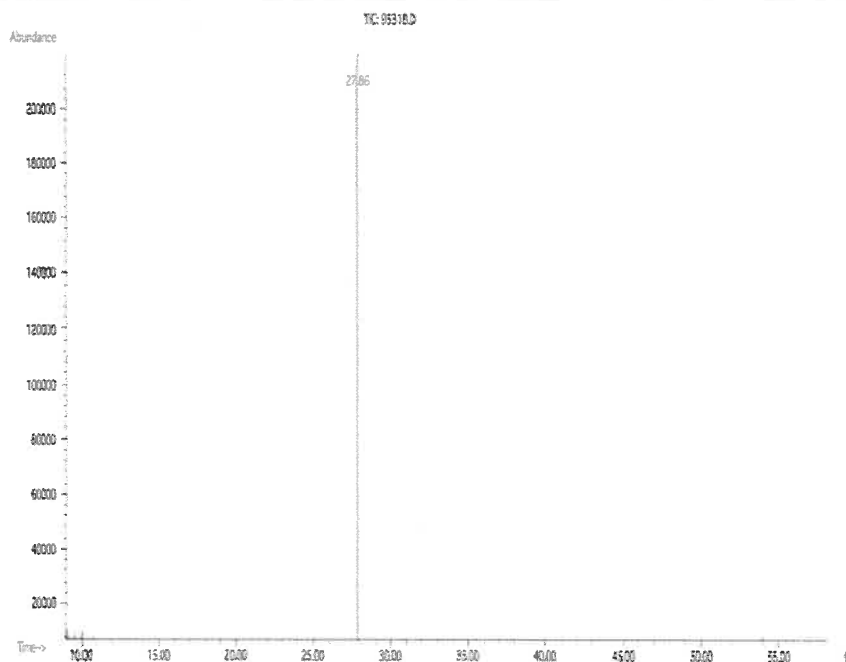
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

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.)		
										CAS#	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	ori-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.



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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
	CAS#: 67-56-1	

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.
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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.
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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 Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

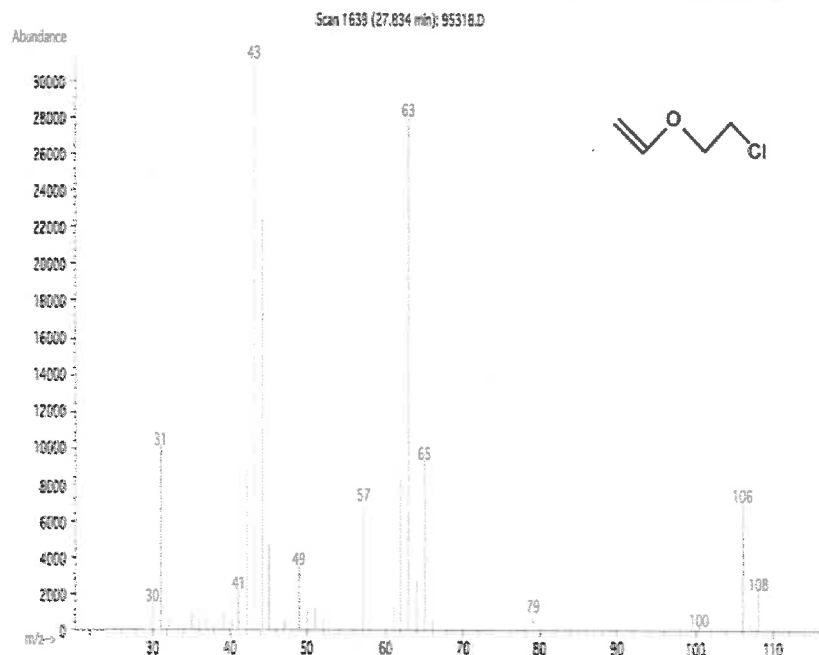
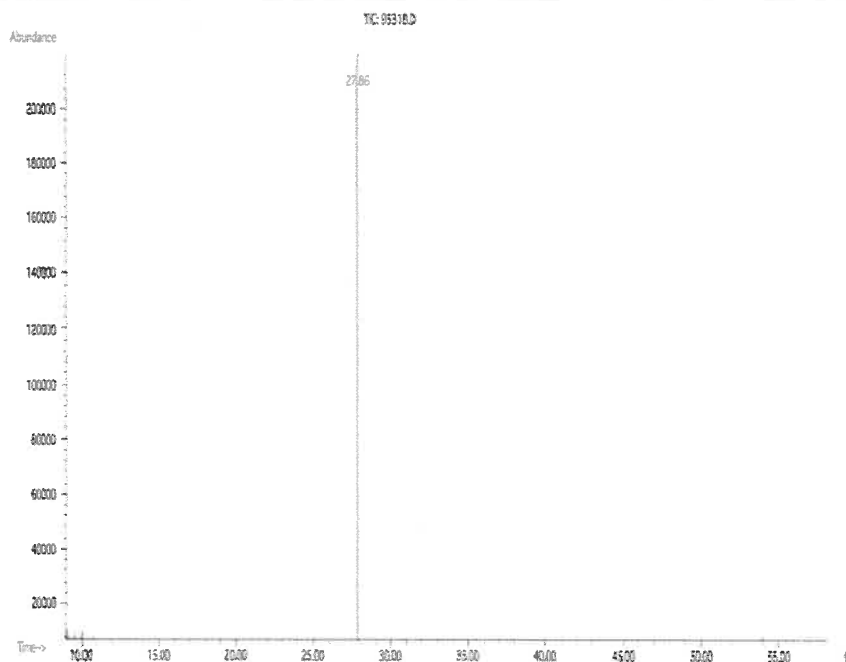
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

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.)		
										CAS#	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	ori-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	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.



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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:

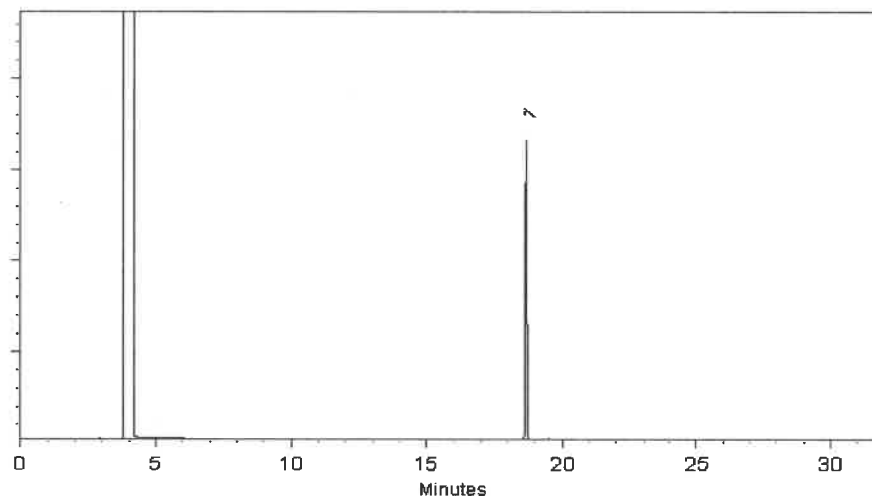
FID

Split Vent:

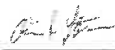
40 ml/min

Inj. Vol

1µl



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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.



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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. : 30006 **Lot No.:** A0200785

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 : November 30, 2026 **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	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* 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:

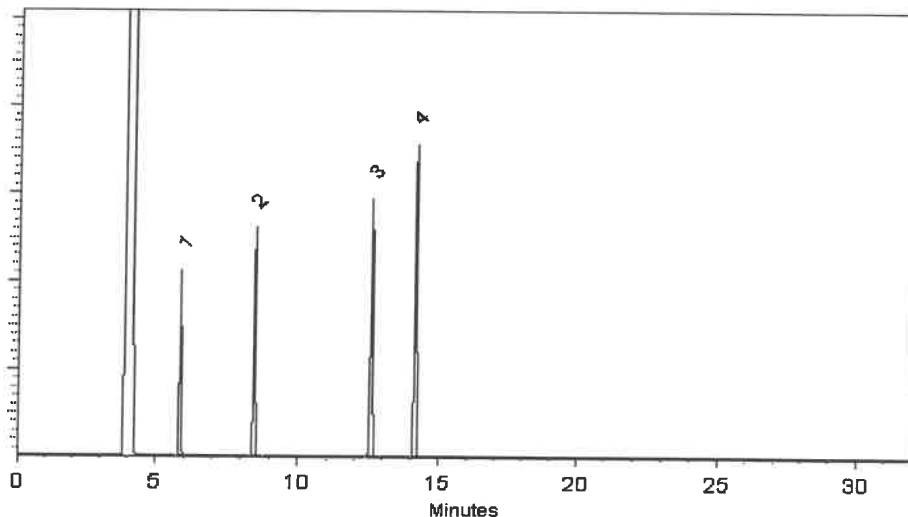
FID

Split Vent:

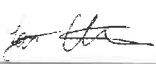
40 ml/min

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.


Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-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.
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chromatographic plus



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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.:** A0200785

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 : November 30, 2026 **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	SHBP8774	99%	5,018.5 µg/mL	+/- 173.4162
2	2-Butanone (MEK)	78-93-3	SHBL5543	99%	5,016.0 µg/mL	+/- 173.3298
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,010.7 µg/mL	+/- 173.1455
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,015.0 µg/mL	+/- 173.2952

* 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:

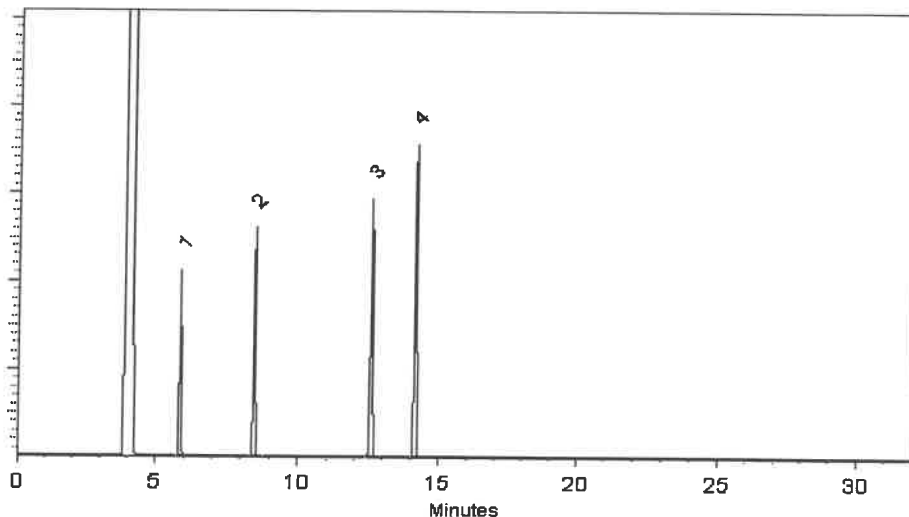
FID

Split Vent:

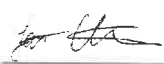
40 ml/min

Inj. Vol

1µl



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Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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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.
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chromatographic plus



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Catalog No. : 30006 **Lot No.:** A0200785

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 : November 30, 2026 **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)
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* 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:

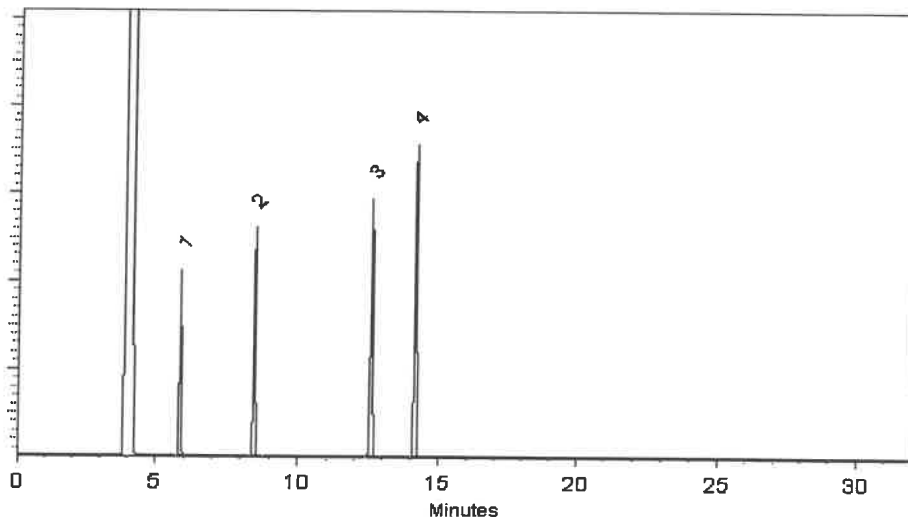
FID

Split Vent:

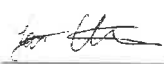
40 ml/min

Inj. Vol

1µl



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Laith Clemente - Operations Technician I

Date Mixed: 09-Aug-2023

Balance Serial # B707717271


Marlina Cowan - Operations Tech II ARM QC

Date Passed: 16-Aug-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



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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

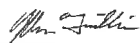
Expiration Date : April 30, 2027 **Storage:** 10°C or colder

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: 1127510105

REVISED
By Restek Review of 11-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/ 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.



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10 vial.
Dec: 12/09/24
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus
V14667-5
V14676



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.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **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	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* 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:

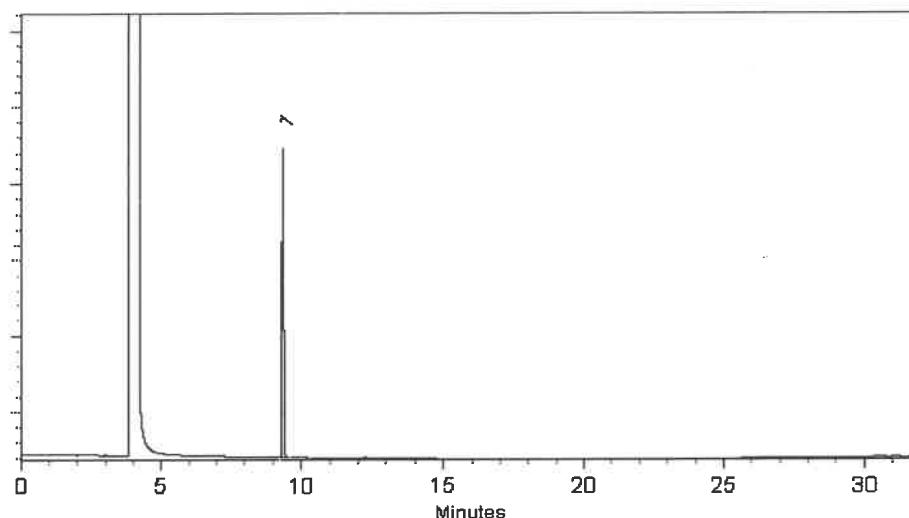
FID

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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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/ 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.



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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.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **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	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* 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:

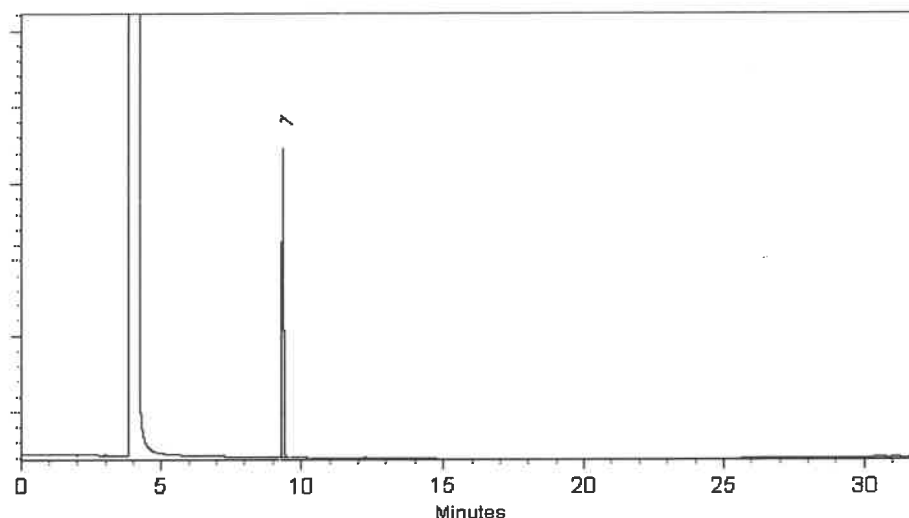
FID

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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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/ 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.



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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.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **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	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* 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:

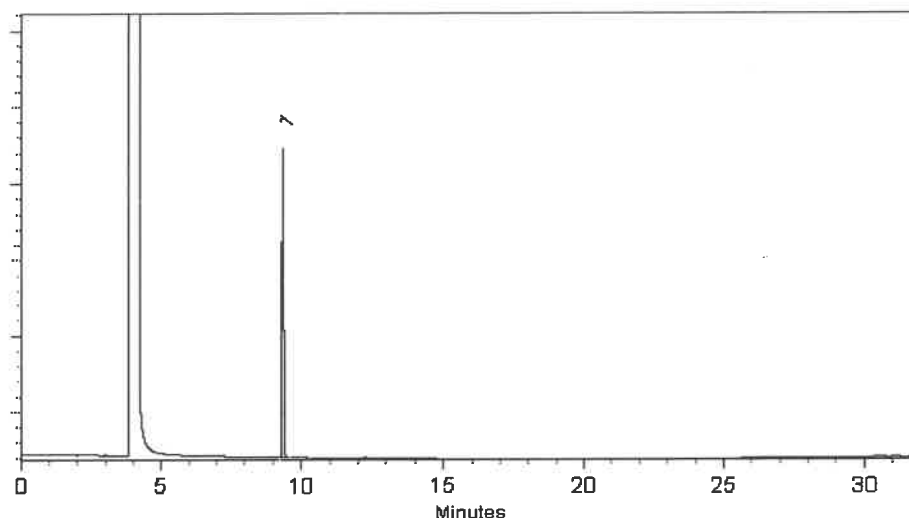
FID

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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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/ 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:

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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.



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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.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **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	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* 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:

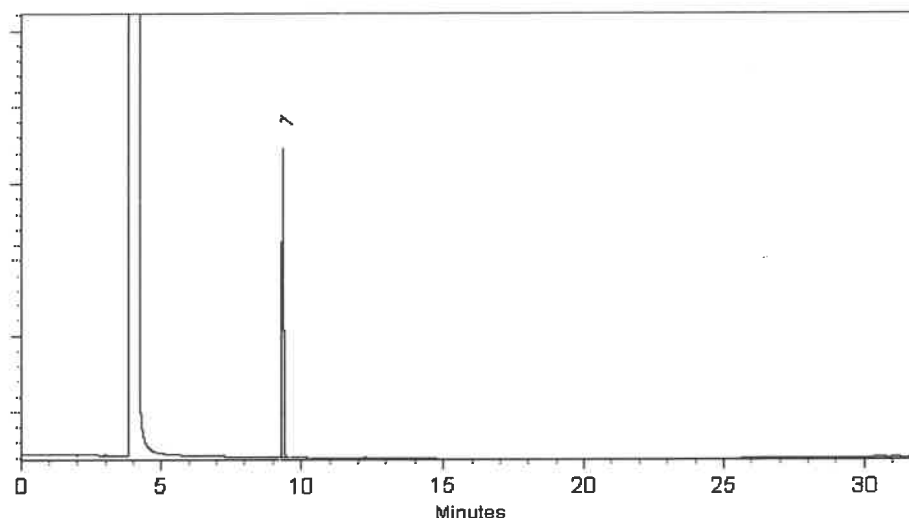
FID

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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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/ 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.



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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:

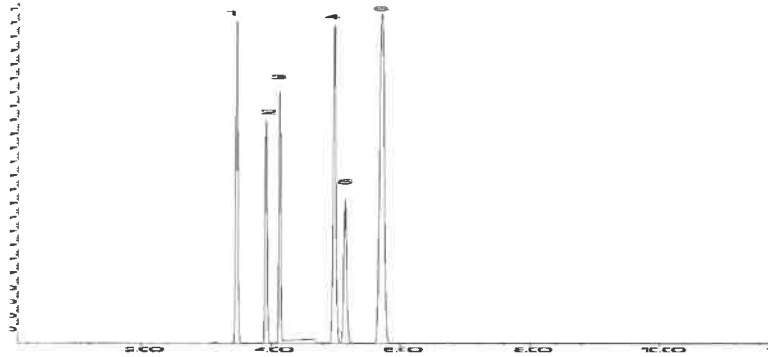
MSD

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.



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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:

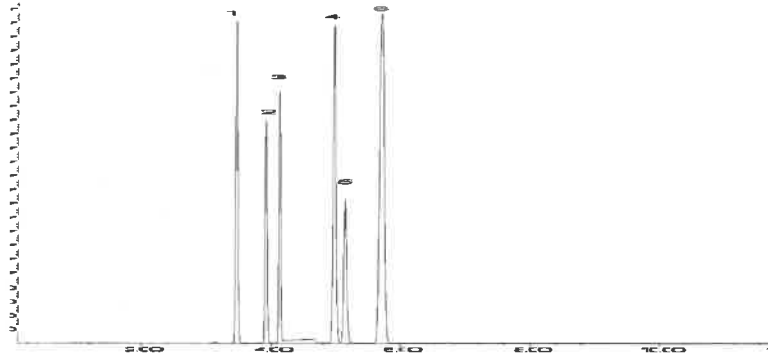
MSD

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.



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CERTIFIED REFERENCE MATERIAL

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chromatographic plus

✓ 14842 to 14846



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.:** A0217535
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 : October 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	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* 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:

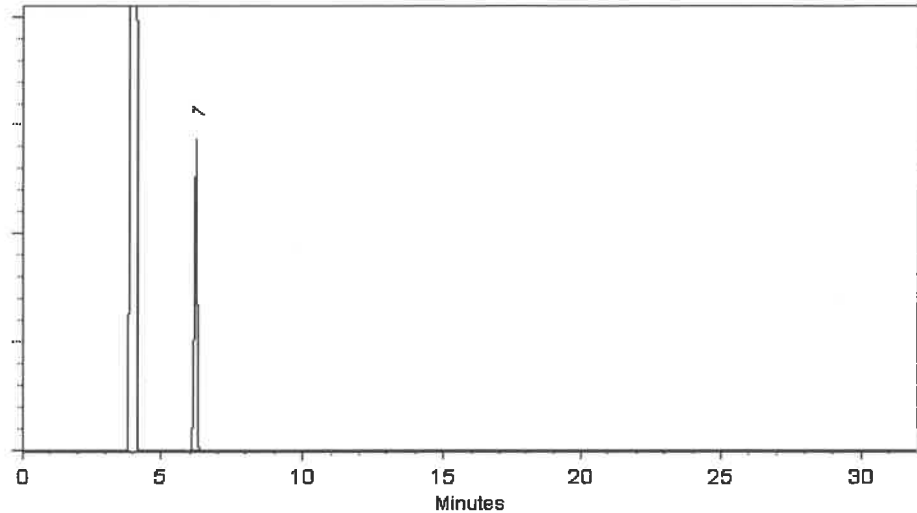
FID

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.

A. O. E.
Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024

Balance Serial # B251644995

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 09-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/ 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.



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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:

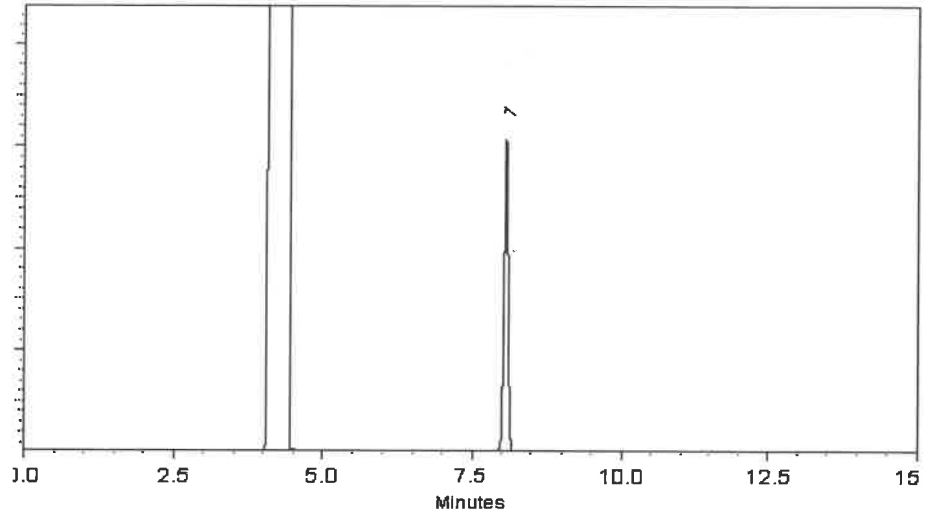
FID

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 Pabon 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/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.



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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:

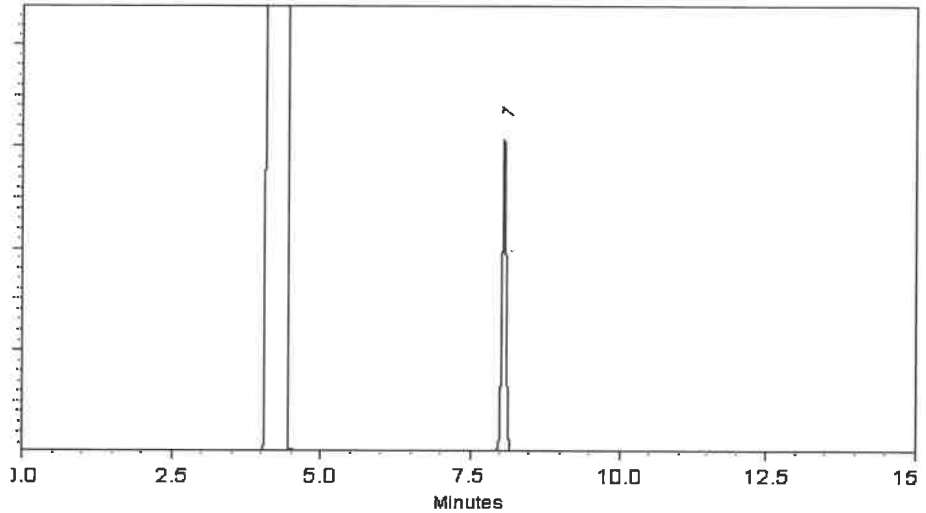
FID

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/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.
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10 vial
Dec 03/31/25
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
gravimetric

V14904 to V14913



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.:** A0223904
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 : March 31, 2028 **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-33313	99%	25,108.0 µg/mL	+/- 1,421.9957
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,108.0 µg/mL	+/- 1,421.9957
3	Dibromofluoromethane	1868-53-7	VENKAT02	99%	25,232.0 µg/mL	+/- 1,429.0184
4	Toluene-d8	2037-26-5	PR-34141	99%	25,156.0 µg/mL	+/- 1,424.7141

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Brittany Federlino - Operations Tech I

Date Mixed: 27-Mar-2025

Balance: B251644995

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

Rev 05/09/25
Avantor™



V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
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	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
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 Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rev 05/09/25
Avantor™



V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
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	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
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 Croak
Director Quality Operations, Bioscience Production



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2ee 05/19/25
CERTIFIED REFERENCE MATERIAL
20 vial

Certificate of Analysis

chromatographic plus

✓ 14951 to ✓ 14970



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.:** A0222076
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 : August 31, 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	Methyl acetate	79-20-9	SHBR1889	99%	2,004.0 µg/mL	+/- 69.2674
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,010.0 µg/mL	+/- 69.4748
3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* 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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

2ee 05/19/25
CERTIFIED REFERENCE MATERIAL
20 vial

Certificate of Analysis

chromatographic plus

✓ 14951 to ✓ 14970



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.:** A0222076
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 : August 31, 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	Methyl acetate	79-20-9	SHBR1889	99%	2,004.0 µg/mL	+/- 69.2674
2	Vinyl acetate	108-05-4	RD240423RSR	99%	2,010.0 µg/mL	+/- 69.4748
3	Ethyl acetate	141-78-6	SHBS3323	99%	2,019.3 µg/mL	+/- 69.7974
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,008.0 µg/mL	+/- 69.4057
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6	Butyl acetate	123-86-4	SHBR2024	99%	2,008.0 µg/mL	+/- 69.4057
7	Amyl acetate	628-63-7	BCBT7442	99%	2,006.7 µg/mL	+/- 69.3596

* 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



Rec 09/16/25 5 vial



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: AcroleinSolvent(s):
Water Lot#: 041725Q

091525	
Formulated By: Anthony Mahoney	DATE
091525	
Reviewed By: Pedro L. Rentas	DATE

Expiration Date: 101525

Recommended Storage: Refrigerate (2°C to 8°C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

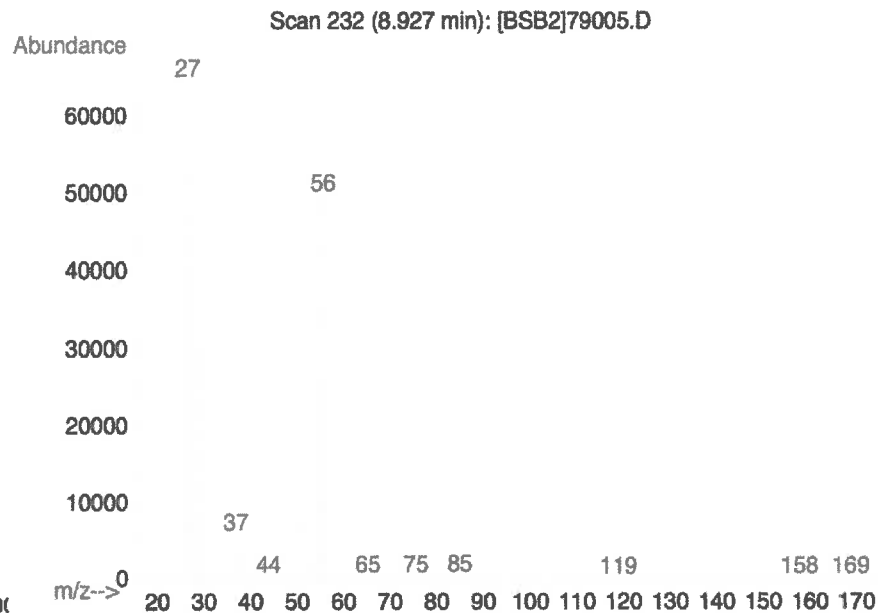
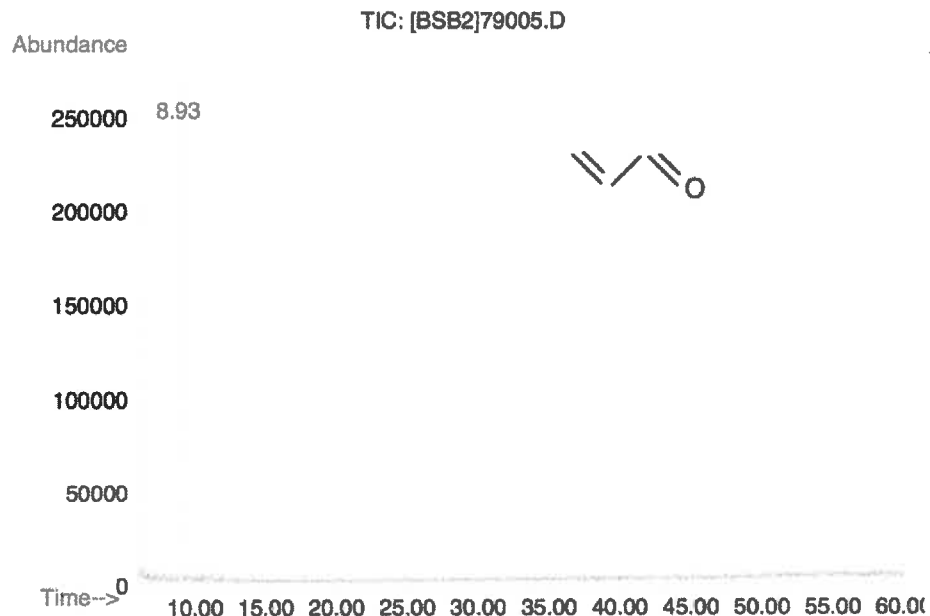
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

V15064 to
V15068

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.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: 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.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 - Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (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).
- Rev 1.0, 2/25/2025



Rec 09/16/25 5 vial



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: AcroleinSolvent(s):
Water Lot#: 041725Q

091525	
Formulated By: Anthony Mahoney	DATE
091525	
Reviewed By: Pedro L. Rentas	DATE

Expiration Date: 101525

Recommended Storage: Refrigerate (2°C to 8°C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

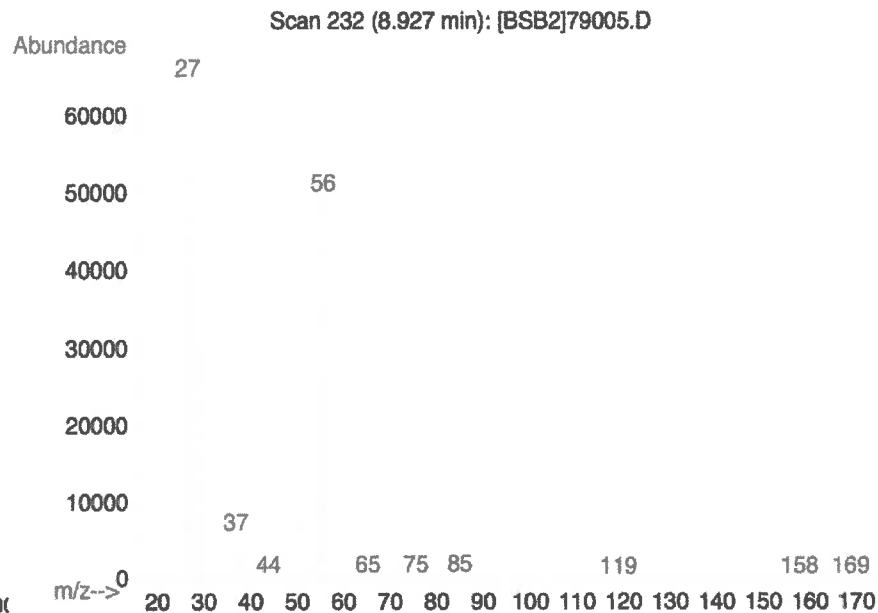
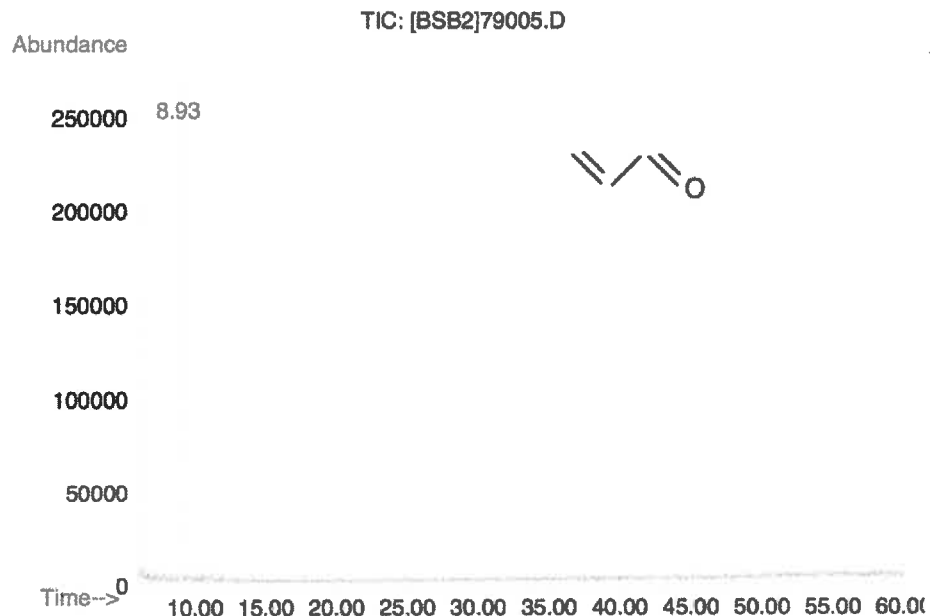
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

V15064 to
V15068

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.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5009.9	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: 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.



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 - 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).
- Rev 1.0, 2/25/2025



Rec 09/16/25 5 vial



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: Acrolein

Solvent(s):
Water
Lot#: 041725Q

091525	
Formulated By: Anthony Mahoney	DATE
091525	
Reviewed By: Pedro L. Rentas	DATE

Expiration Date: 101525

Recommended Storage: Refrigerate (2°C to 8°C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

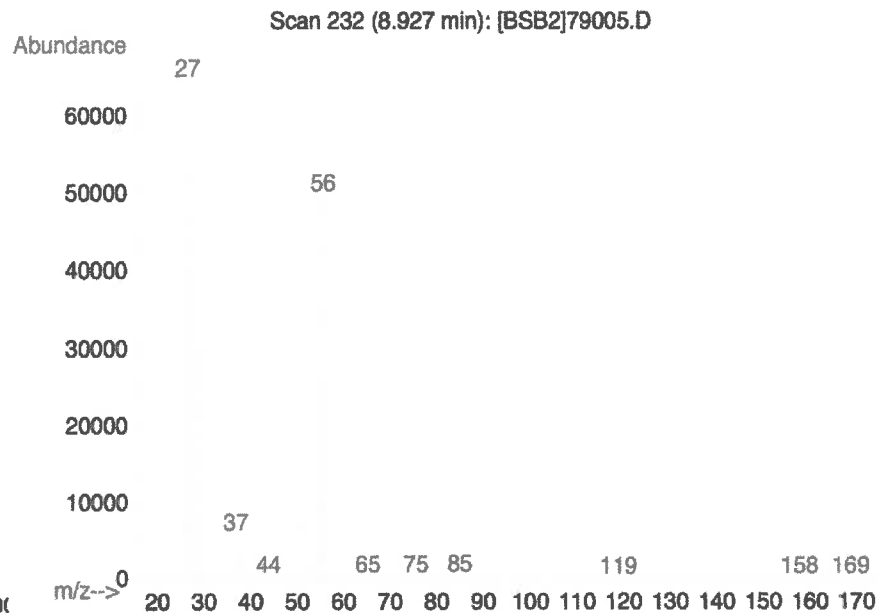
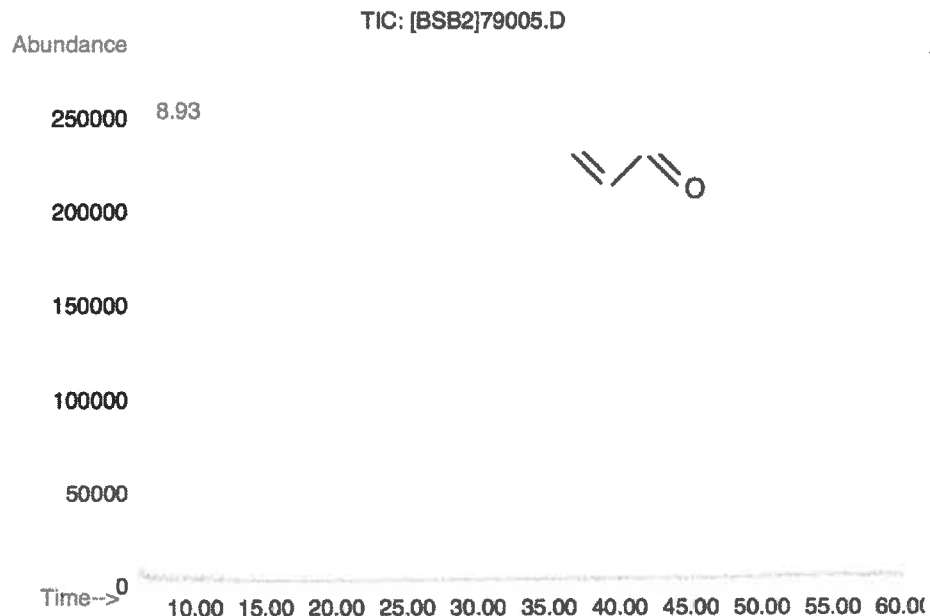
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

V15064 to
V15068

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.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05186	0.05176	5009.9	52.6	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: 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.



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- Rev 1.0, 2/25/2025



SHIPPING DOCUMENTS

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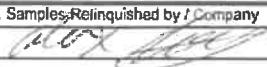
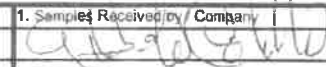
YORK

Field Chain-of-Custody Record

YORK Project No.

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

Page 1 of 1

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: Core Environmental Consultants		Company: Same		Company: Same				RUSH - Next Day	
Address: 22-48 119th Street College Point NY 11356		Address: Same		Address: Same				RUSH - Two Day	
Phone: (718) 786 - 4730		Phone.: Same		Phone.: Same		YOUR Project Name		RUSH - Three Day	
Contact: E. Trampusch		Contact: Roland Scardino		Contact: Joseph Zaheer		Mendon SWPPP		RUSH - Four Day	
E-mail: emt@coreenv.com		E-mail: rscardino@coreenv.com		E-mail: jzaheer@coreenv.com				Standard (5-7 Day)	
Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around time clock will not begin until any questions by YORK are resolved.									
Samples Collected by: (print your name above and sign below)  		Matrix Codes		Samples From		Report / EDD Type (circle selections)			YORK Reg. Comp.
		S - soil / solid		New York		Summary Report			Compared to the following Regulation(s): (please fill in)
		GW - groundwater		New Jersey		QA Report			
		DW - drinking water		Connecticut		NY ASP A Package			
		WW - wastewater		Pennsylvania		NY ASP B Package			
O - Oil : Other		Other		CT RCP Standard Excel EDD CT RCP DQA/DUE EQUIS (Standard) NJDEP Reduced NYSDEC EQUIS Deliverables NJDEP SRP HazSite NJDKQP Other:					
Sample Identification		Sample Matrix		Date/Time Sampled		Analysis Requested			Container Description
362Kingsland-001S		WW		10-8-25 @ 0100		BTEX (xylene m+o+p)			3x 40mL w/ HCl
Comments: Semi-Annual				Preservation: (check all that apply)				Special Instruction	
				HCl ___ MeOH ___ HNO ₃ <u>X</u> H ₂ SO ₄ <u>X</u> NaOH ___ ZnAc ___ Ascorbic Acid ___ Other: ___				Field Filtered ___ Lab to Filter ___	
1. Samples Relinquished by / Company		Date/Time		1. Samples Received by / Company		Date/Time		2. Samples Relinquished by / Company	
		10-8-25 @ 12:15				10/8/25 12:15			
2. Samples Received by / Company		Date/Time		3. Samples Relinquished by / Company		Date/Time		3. Samples Received by / Company	
4. Samples Relinquished by / Company		Date/Time		4. Samples Received by / Company		Date/Time		Samples Received In LAB by Date/Time Temp. Received at Lab	
								 10/08/25 11:00 Degrees C	

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3312	CORE02	Order Date : 10/8/2025 1:35:00 PM	Project Mgr :
Client Name : Core Environmental Consul		Project Name : The Wills Building	Report Type : NYS ASP B
Client Contact : Roland Scardino		Receive DateTime : 10/8/2025 12:15:00 PM	EDD Type : Excel NY
Invoice Name : Core Environmental Consul		Purchase Order : 16:30	Hard Copy Date :
Invoice Contact : Roland Scardino			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3312-01	362Kingsland-001S	Water	10/08/2025	07:00	VOC-BTEX		8260-Low		10 Bus. Days

Relinquished By : cl
Date / Time : 10/9/25 1050

Received By : AD
Date / Time : 10/09/25

Storage Area : VOA Refridgerator Room