

DATA PACKAGE VOLATILE ORGANICS

PROJECT NAME : RFP 918

**WESTON SOLUTIONS, INC.
1090 King Georges Post Road
Suite 201
Edison, NJ - 08837-3703
Phone No: 732-585-4410**

**ORDER ID : Q3321
ATTENTION : Smita Sumbaly**



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3321

Project ID : RFP 918

Client : Weston Solutions, Inc.

Lab Sample Number

Q3321-01
Q3321-02

Client Sample Number

P001-DS-01
P001-DS-01

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

Signature : _____

Date: 10/15/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 918
Project # N/A
Order ID # Q3321
Test Name: TCLP VOA

A. Number of Samples and Date of Receipt:

1 Solid sample was received on 10/09/2025.

B. Parameters

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

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 TCLP VOA was based on method 8260D and TCLP extraction method was 1311.

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 File ID VX048126.D met the requirements except for Vinyl Chloride is failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

E. Calculation:

Water Calculation in ug/L

$$\frac{(A_x)(I_s)(Df)}{(Ais)(RRF)(V0)}$$

Where,

Ax = Area for the compound to be measured
Ais = Area for the specific internal standard
Is = Amount of internal standard added in nanograms (ng)
RRF = Relative response factor of the initial calibration curve standard.
Vo = Volume of water purged in milliliters (mL)
Df = Dilution factor.

F. 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.

G. Manual Integration Comments:

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

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.

Signature_____

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: Q3321

MATRIX: TCLP

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 File ID VX048126.D met the requirements except for Vinyl Chloride is failing high but no positive hit in associate sample therefore no corrective action taken.		✓	
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.

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

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

NA NO YES

Trip Blank was not provided with this set of samples.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3321

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: 10/15/2025

LAB CHRONICLE

OrderID:	Q3321	OrderDate:	10/9/2025 10:30:00 AM
Client:	Weston Solutions, Inc.	Project:	RFP 918
Contact:	Smita Sumbaly	Location:	D41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3321-01	P001-DS-01	SOIL	VOC-TCLVOA-10	8260D	10/08/25		10/09/25	10/09/25
Q3321-02	P001-DS-01	TCLP	TCLP VOA	8260D	10/08/25		10/13/25	10/09/25

Hit Summary Sheet
SW-846

SDG No.: Q3321

Client: Weston Solutions, 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.: Q3321

Client: Weston Solutions, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3321-02	P001-DS-01	1,2-Dichloroethane-d4	50	56.5	113		74	125
		Dibromofluoromethane	50	51.5	103		75	124
		Toluene-d8	50	50.6	101		86	113
		4-Bromofluorobenzene	50	57.3	115		77	121

Surrogate Summary

SDG No.: Q3321

Client: Weston Solutions, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
VX1013WBL01	VX1013WBL01	1,2-Dichloroethane-d4	50	49.8	100		74	125
		Dibromofluoromethane	50	48.9	98		75	124
		Toluene-d8	50	48.3	97		86	113
		4-Bromofluorobenzene	50	54.5	109		77	121
VX1013WBS01	VX1013WBS01	1,2-Dichloroethane-d4	50	50.5	101		74	125
		Dibromofluoromethane	50	55.6	111		75	124
		Toluene-d8	50	53.9	108		86	113
		4-Bromofluorobenzene	50	54.8	110		77	121
VX1013WBSD0	VX1013WBSD01	1,2-Dichloroethane-d4	50	49.6	99		74	125
		Dibromofluoromethane	50	55.8	112		75	124
		Toluene-d8	50	53.9	108		86	113
		4-Bromofluorobenzene	50	55.0	110		77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3321</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>Weston Solutions, Inc.</u>	Datafile :	<u>VX048129.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1013WBS01	Vinyl chloride	20	20.0	ug/L	100			65	117	
	1,1-Dichloroethene	20	19.4	ug/L	97			74	110	
	2-Butanone	100	77.9	ug/L	78			65	122	
	Carbon Tetrachloride	20	20.0	ug/L	100			77	113	
	Chloroform	20	19.1	ug/L	96			79	113	
	Benzene	20	19.8	ug/L	99			82	109	
	1,2-Dichloroethane	20	19.1	ug/L	96			80	115	
	Trichloroethene	20	20.2	ug/L	101			77	113	
	Tetrachloroethene	20	20.4	ug/L	102			67	123	
	Chlorobenzene	20	19.5	ug/L	98			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3321</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>Weston Solutions, Inc.</u>	Datafile :	<u>VX048131.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1013WBSD01	Vinyl chloride	20	20.3	ug/L	102	2		65	117	19
	1,1-Dichloroethene	20	19.8	ug/L	99	2		74	110	20
	2-Butanone	100	83.2	ug/L	83	6		65	122	26
	Carbon Tetrachloride	20	21.5	ug/L	108	8		77	113	15
	Chloroform	20	19.7	ug/L	99	3		79	113	20
	Benzene	20	20.5	ug/L	103	4		82	109	15
	1,2-Dichloroethane	20	20.0	ug/L	100	4		80	115	20
	Trichloroethene	20	21.0	ug/L	105	4		77	113	15
	Tetrachloroethene	20	21.2	ug/L	106	4		67	123	15
	Chlorobenzene	20	20.0	ug/L	100	2		82	109	15

VOLATILE METHOD BLANK SUMMARY

Client ID

VX1013WBL01

Lab Name: Alliance

Contract: ROYF02

Lab Code: ACE

SDG NO.: Q3321

Lab File ID: VX048128.D

Lab Sample ID: VX1013WBL01

Date Analyzed: 10/13/2025

Time Analyzed: 09:46

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
VX1013WBS01	VX1013WBS01	VX048129.D	10/13/2025
VX1013WBSD01	VX1013WBSD01	VX048131.D	10/13/2025
P001-DS-01	Q3321-02	VX048143.D	10/13/2025

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: ROYF02

Lab Code: ACE

SDG NO.: Q3321

Lab File ID: VX047584.D

BFB Injection Date: 09/16/2025

Instrument ID: MSVOA_X

BFB Injection Time: 08:56

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	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



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: ROYF02

Lab Code: ACE

SDG NO.: Q3321

Lab File ID: VX048125.D

BFB Injection Date: 10/13/2025

Instrument ID: MSVOA_X

BFB Injection Time: 08:13

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.9
75	30.0 - 60.0% of mass 95	52.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.9 (1.3) 1
174	50.0 - 100.0% of mass 95	68.4
175	5.0 - 9.0% of mass 174	5.3 (7.8) 1
176	95.0 - 101.0% of mass 174	66.7 (97.5) 1
177	5.0 - 9.0% of mass 176	4.6 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX048126.D	10/13/2025	08:55
VX1013WBL01	VX1013WBL01	VX048128.D	10/13/2025	09:46
VX1013WBS01	VX1013WBS01	VX048129.D	10/13/2025	10:43
VX1013WBSD01	VX1013WBSD01	VX048131.D	10/13/2025	11:24
P001-DS-01	Q3321-02	VX048143.D	10/13/2025	15:30

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ROYF02
Lab Code: ACE SDG NO.: Q3321
Lab File ID: VX048126.D Date Analyzed: 10/13/2025
Instrument ID: MSVOA_X Time Analyzed: 08:55
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	154232	5.53	259451	6.74	223200	10.04
UPPER LIMIT	308464	6.025	518902	7.239	446400	10.537
LOWER LIMIT	77116	5.025	129726	6.239	111600	9.537
EPA SAMPLE NO.						
P001-DS-01	125413	5.54	262380	6.75	277983	10.04
VX1013WBL01	171399	5.54	348950	6.75	354107	10.04
VX1013WBS01	148350	5.53	252959	6.74	229883	10.04
VX1013WBSD01	139496	5.54	233746	6.75	212533	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: ROYF02
 Lab Code: ACE SDG NO.: Q3321
 Lab File ID: VX048126.D Date Analyzed: 10/13/2025
 Instrument ID: MSVOA_X Time Analyzed: 08:55
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	109642	12				
UPPER LIMIT	219284	12.5				
LOWER LIMIT	54821	11.5				
EPA SAMPLE NO.						
P001-DS-01	140622	12.01				
VX1013WBL01	171429	12.01				
VX1013WBS01	119033	12.00				
VX1013WBSD01	110079	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: Weston Solutions, Inc.
 Project: RFP 918
 Client Sample ID: P001-DS-01
 Lab Sample ID: Q3321-02
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected: 10/08/25
 Date Received: 10/09/25
 SDG No.: Q3321
 Matrix: TCLP
 % Solid: 0
 Test: TCLP VOA

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	5.00	ug/L	10/13/25 15:30	VX101325
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	5.00	ug/L	10/13/25 15:30	VX101325
78-93-3	2-Butanone	0.98	U	1	0.98	25.0	ug/L	10/13/25 15:30	VX101325
56-23-5	Carbon Tetrachloride	0.25	U	1	0.25	5.00	ug/L	10/13/25 15:30	VX101325
67-66-3	Chloroform	0.25	U	1	0.25	5.00	ug/L	10/13/25 15:30	VX101325
71-43-2	Benzene	0.15	U	1	0.15	5.00	ug/L	10/13/25 15:30	VX101325
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	5.00	ug/L	10/13/25 15:30	VX101325
79-01-6	Trichloroethene	0.090	U	1	0.090	5.00	ug/L	10/13/25 15:30	VX101325
127-18-4	Tetrachloroethene	0.23	U	1	0.23	5.00	ug/L	10/13/25 15:30	VX101325
108-90-7	Chlorobenzene	0.12	U	1	0.12	5.00	ug/L	10/13/25 15:30	VX101325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	56.5			74 - 125	113%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.5			75 - 124	103%	SPK: 50		
2037-26-5	Toluene-d8	50.6			86 - 113	101%	SPK: 50		
460-00-4	4-Bromofluorobenzene	57.3			77 - 121	115%	SPK: 50		
INTERNAL STANDARDS									
		Area							
363-72-4	Pentafluorobenzene	125000							
540-36-3	1,4-Difluorobenzene	262000							
3114-55-4	Chlorobenzene-d5	278000							
3855-82-1	1,4-Dichlorobenzene-d4	141000							

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\VX101325\
 Data File : VX048143.D
 Acq On : 13 Oct 2025 15:30
 Operator : JC/MD
 Sample : Q3321-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 P001-DS-01

Quant Time: Oct 14 01:56:05 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)

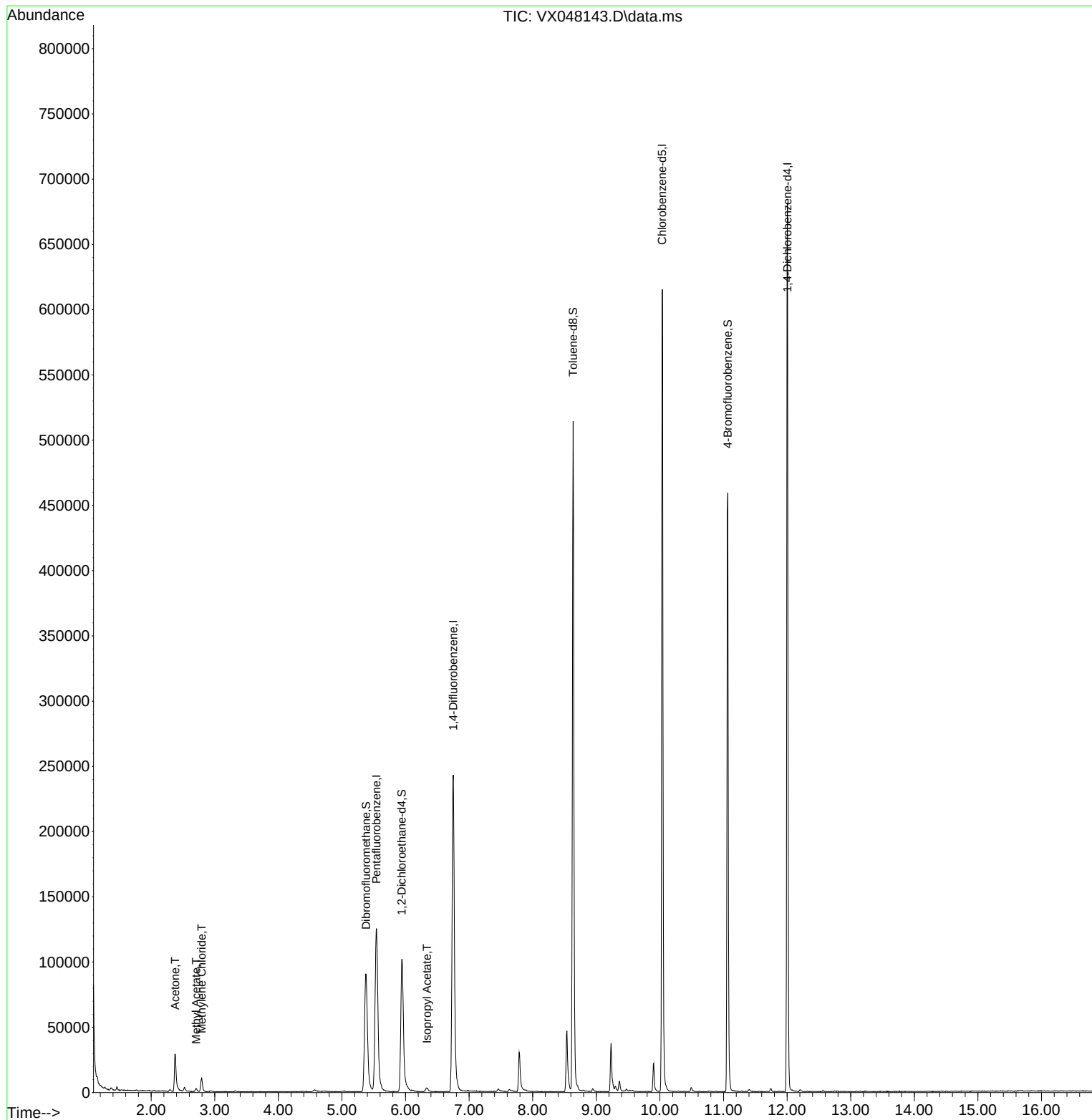
Internal Standards						
1) Pentafluorobenzene	5.544	168	125413	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	262380	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	277983	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	140622	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	112725	56.468	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 112.940%	
35) Dibromofluoromethane	5.379	113	90650	51.516	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.040%	
50) Toluene-d8	8.634	98	308347	50.642	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 101.280%	
62) 4-Bromofluorobenzene	11.067	95	132352	57.275	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 114.560%	
Target Compounds						
					Qvalue	
16) Acetone	2.379	43	37321	42.998	ug/l	99
18) Methyl Acetate	2.709	43	3801	1.968	ug/l	93
20) Methylene Chloride	2.794	84	5215	2.838	ug/l	93
43) Isopropyl Acetate	6.336	43	5035	1.115	ug/l #	87

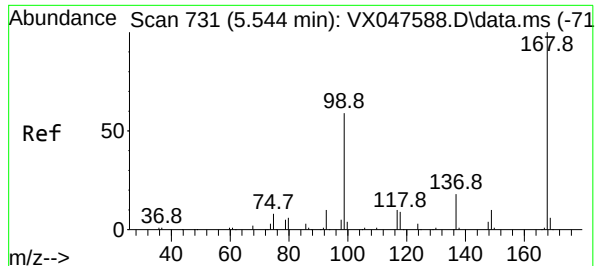
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101325\
Data File : VX048143.D
Acq On : 13 Oct 2025 15:30
Operator : JC/MD
Sample : Q3321-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
P001-DS-01

Quant Time: Oct 14 01:56:05 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

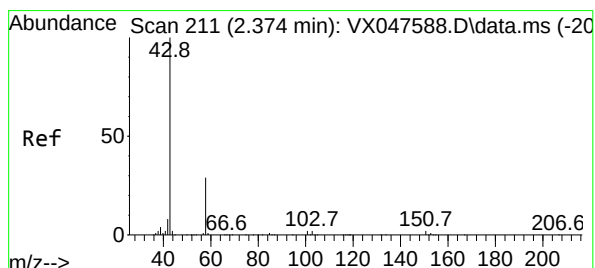
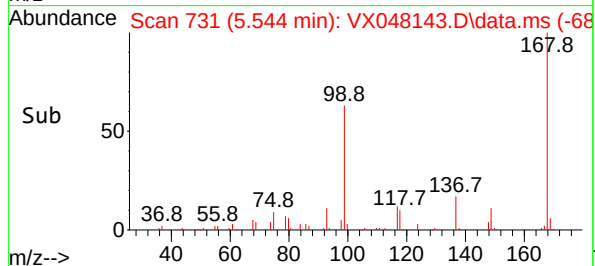
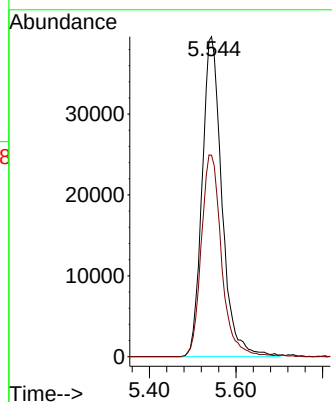
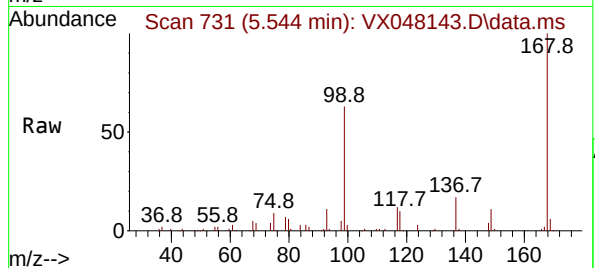




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048143.D
Acq: 13 Oct 2025 15:30

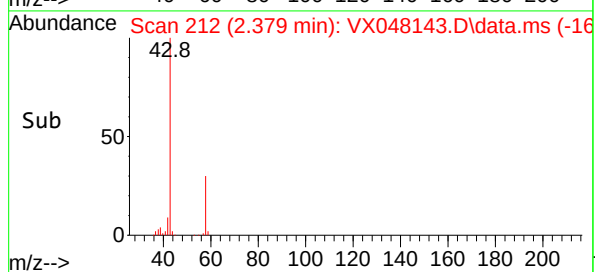
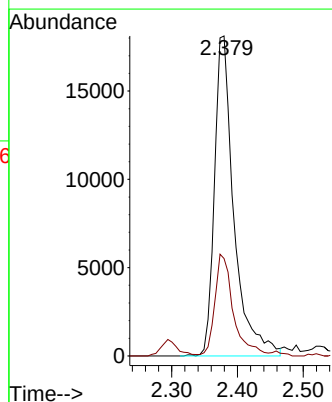
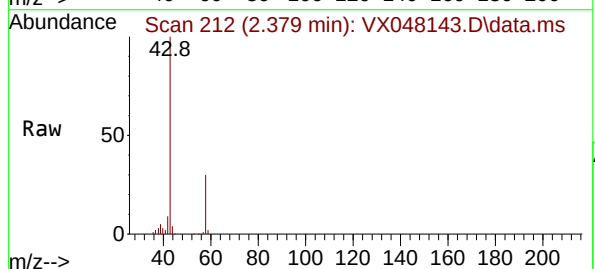
Instrument :
MSVOA_X
ClientSampleId :
P001-DS-01

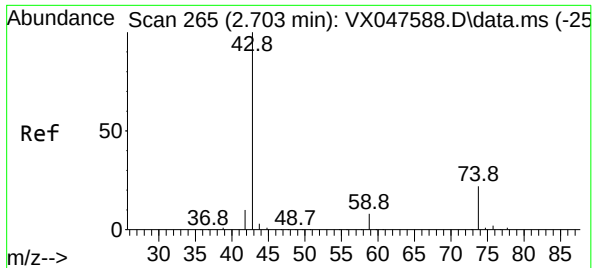
Tgt Ion:168 Resp: 125413
Ion Ratio Lower Upper
168 100
99 63.0 48.8 73.2



#16
Acetone
Concen: 42.998 ug/l
RT: 2.379 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX048143.D
Acq: 13 Oct 2025 15:30

Tgt Ion: 43 Resp: 37321
Ion Ratio Lower Upper
43 100
58 29.6 23.4 35.0





#18

Methyl Acetate

Concen: 1.968 ug/l

RT: 2.709 min Scan# 2

Delta R.T. 0.006 min

Lab File: VX048143.D

Acq: 13 Oct 2025 15:30

Instrument :

MSVOA_X

ClientSampleId :

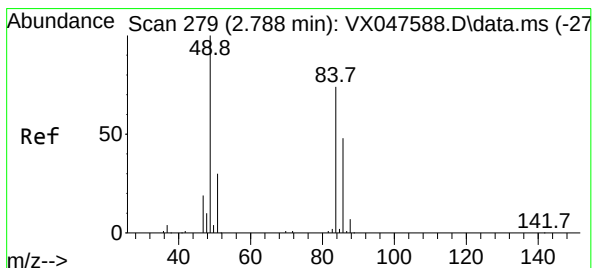
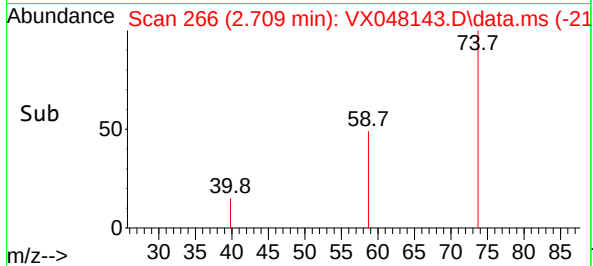
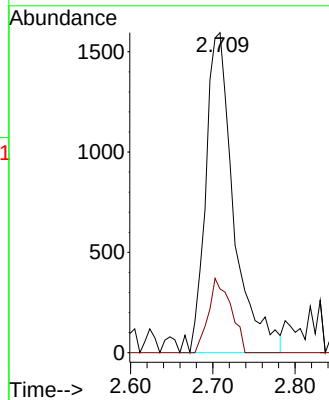
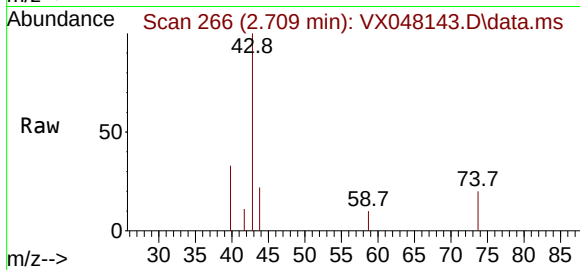
P001-DS-01

Tgt Ion: 43 Resp: 3801

Ion Ratio Lower Upper

43 100

74 18.6 17.4 26.2



#20

Methylene Chloride

Concen: 2.838 ug/l

RT: 2.794 min Scan# 280

Delta R.T. 0.006 min

Lab File: VX048143.D

Acq: 13 Oct 2025 15:30

Tgt Ion: 84 Resp: 5215

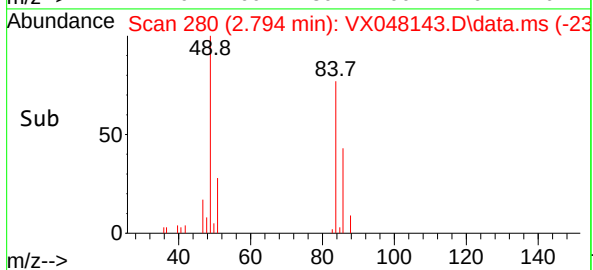
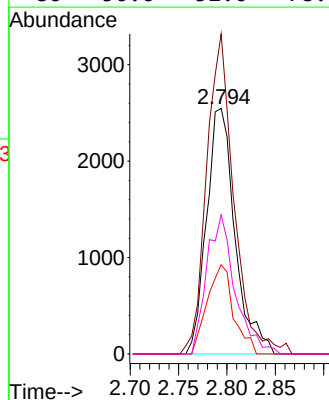
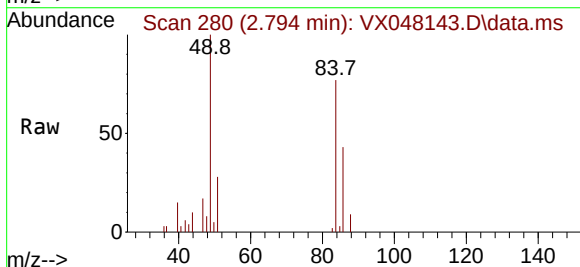
Ion Ratio Lower Upper

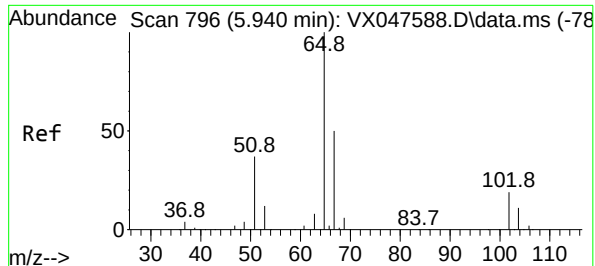
84 100

49 130.3 108.6 162.8

51 36.3 32.6 48.8

86 56.6 52.0 78.0





#33

1,2-Dichloroethane-d4

Concen: 56.468 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX048143.D

Acq: 13 Oct 2025 15:30

Instrument :

MSVOA_X

ClientSampleId :

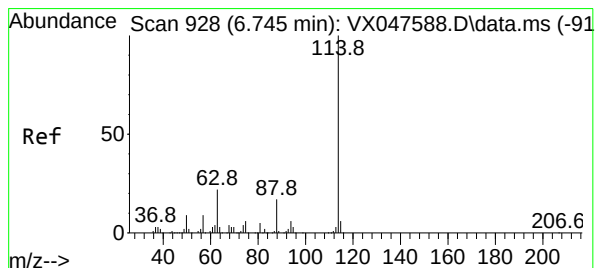
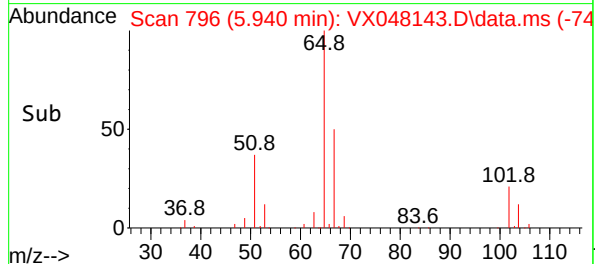
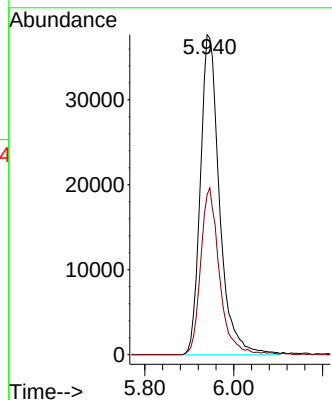
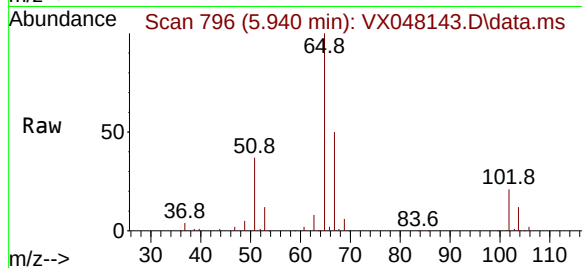
P001-DS-01

Tgt Ion: 65 Resp: 112725

Ion Ratio Lower Upper

65 100

67 50.7 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX048143.D

Acq: 13 Oct 2025 15:30

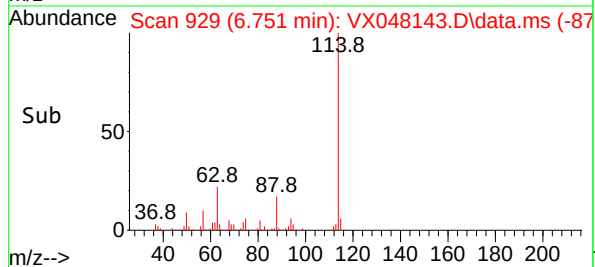
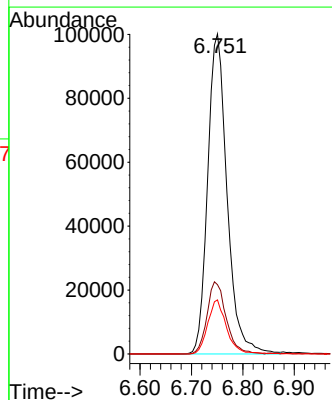
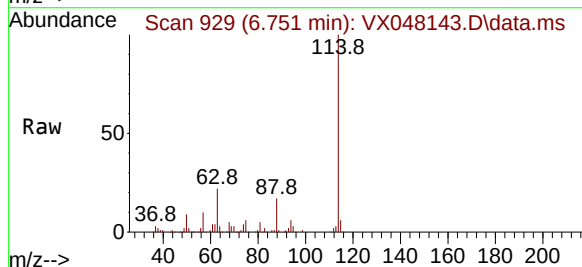
Tgt Ion: 114 Resp: 262380

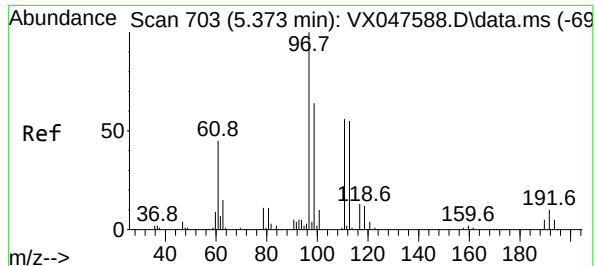
Ion Ratio Lower Upper

114 100

63 21.7 0.0 44.0

88 16.9 0.0 34.2





#35

Dibromofluoromethane

Concen: 51.516 ug/l

RT: 5.379 min Scan# 703

Delta R.T. 0.006 min

Lab File: VX048143.D

Acq: 13 Oct 2025 15:30

Instrument :

MSVOA_X

ClientSampleId :

P001-DS-01

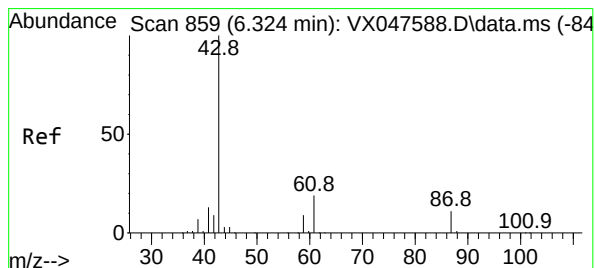
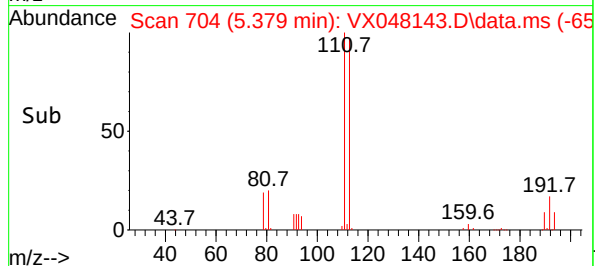
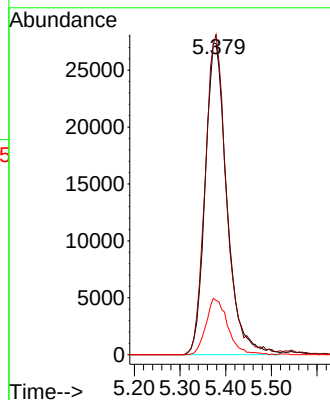
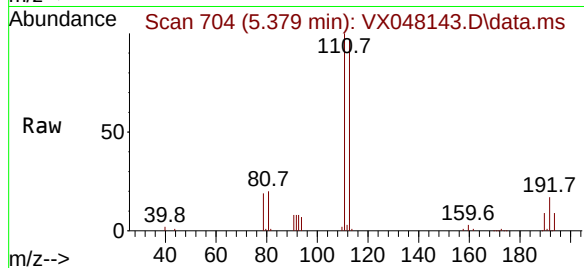
Tgt Ion:113 Resp: 90650

Ion Ratio Lower Upper

113 100

111 101.7 80.9 121.3

192 18.1 14.2 21.4



#43

Isopropyl Acetate

Concen: 1.115 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.012 min

Lab File: VX048143.D

Acq: 13 Oct 2025 15:30

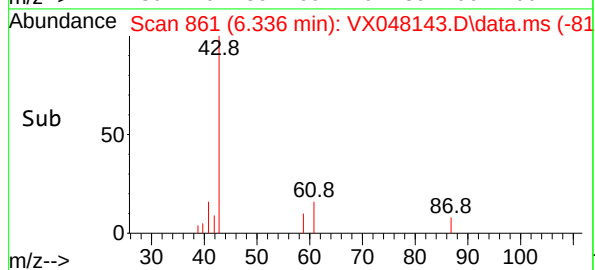
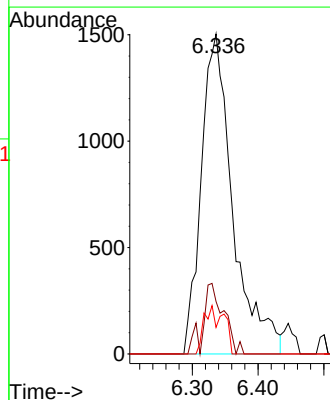
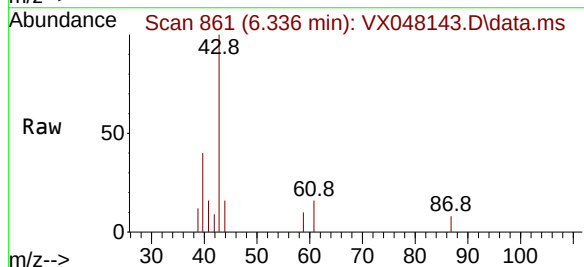
Tgt Ion: 43 Resp: 5035

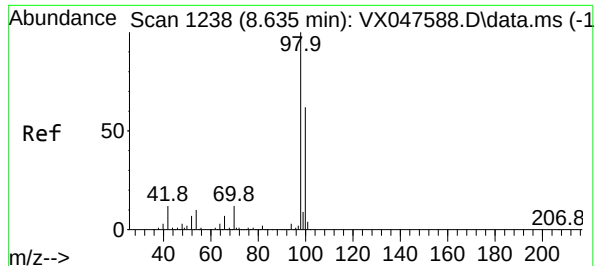
Ion Ratio Lower Upper

43 100

61 14.5 15.2 22.8#

87 5.5 9.6 14.4#

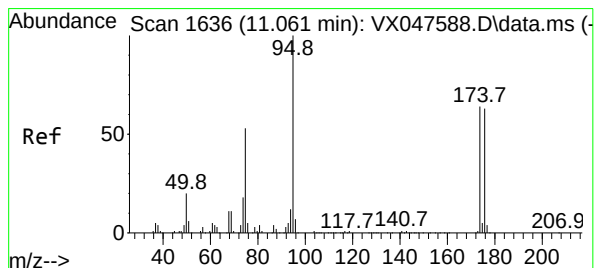
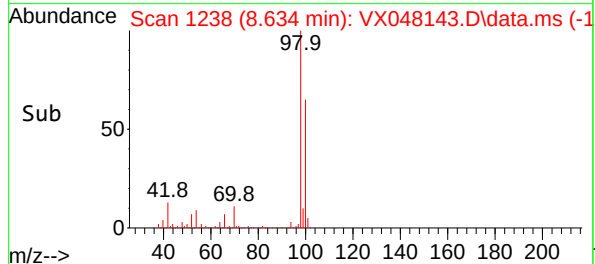
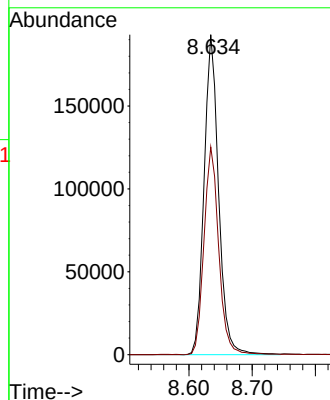
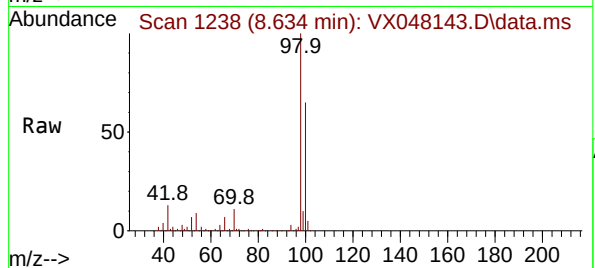




#50
Toluene-d8
Concen: 50.642 ug/l
RT: 8.634 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048143.D
Acq: 13 Oct 2025 15:30

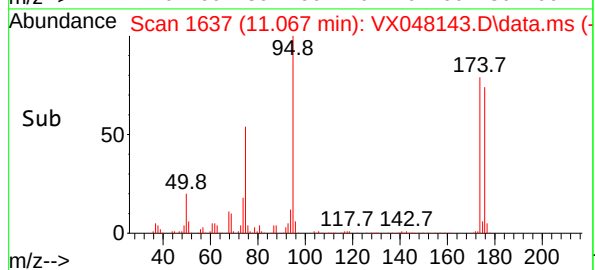
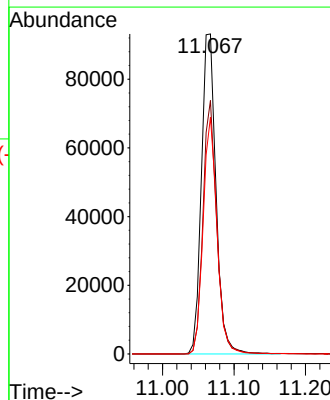
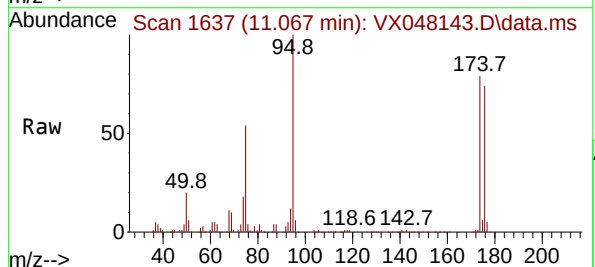
Instrument :
MSVOA_X
ClientSampleId :
P001-DS-01

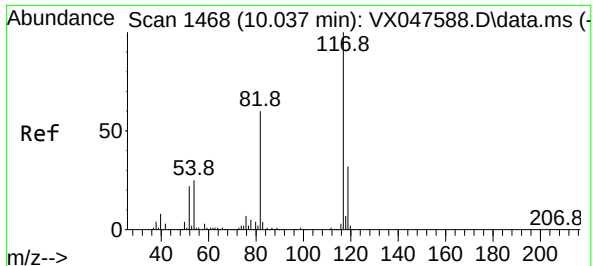
Tgt Ion: 98 Resp: 308347
Ion Ratio Lower Upper
98 100
100 65.8 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 57.275 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX048143.D
Acq: 13 Oct 2025 15:30

Tgt Ion: 95 Resp: 132352
Ion Ratio Lower Upper
95 100
174 74.3 0.0 141.6
176 70.8 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: VX048143.D

Acq: 13 Oct 2025 15:30

Instrument :

MSVOA_X

ClientSampleId :

P001-DS-01

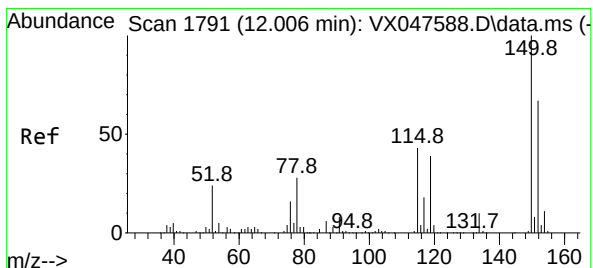
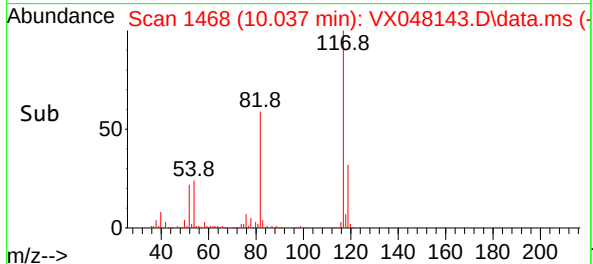
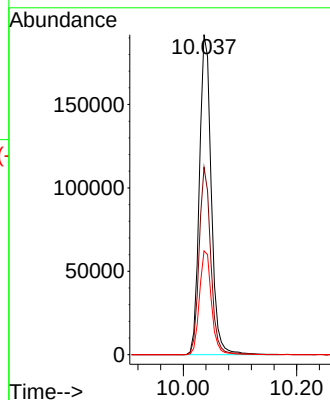
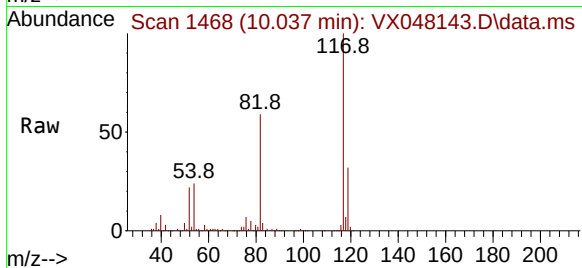
Tgt Ion:117 Resp: 277983

Ion Ratio Lower Upper

117 100

82 58.5 47.8 71.6

119 32.5 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: VX048143.D

Acq: 13 Oct 2025 15:30

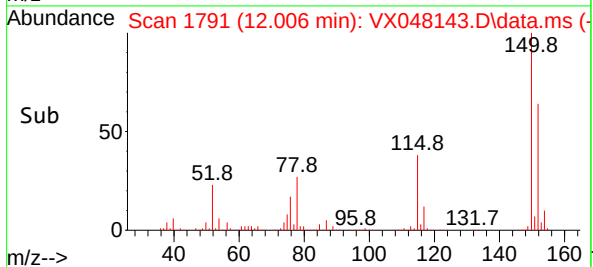
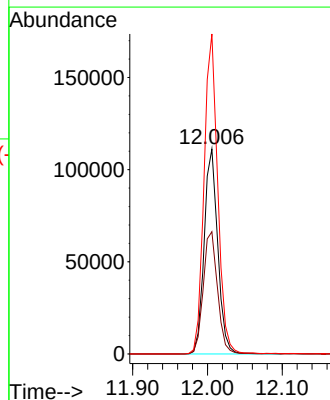
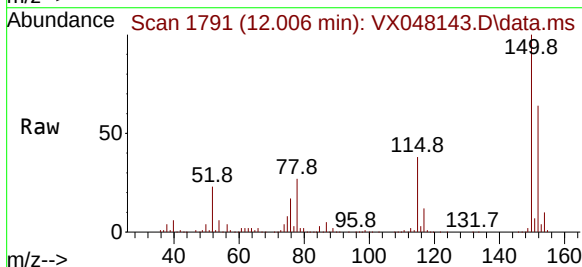
Tgt Ion:152 Resp: 140622

Ion Ratio Lower Upper

152 100

115 62.6 44.9 134.5

150 156.5 0.0 352.0





CALIBRATION SUMMARY

- 1
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- 16
- 17



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ROYF02
 Lab Code: ACE SDG No.: Q3321
 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	
Vinyl Chloride	0.572	0.713	0.716	0.661	0.677	0.658	0.666	7.9	
1,1-Dichloroethene	0.526	0.612	0.618	0.604	0.609	0.596	0.594	5.7	
2-Butanone	0.370	0.470	0.473	0.439	0.414	0.424	0.432	9	
Carbon Tetrachloride	0.482	0.574	0.555	0.539	0.526	0.518	0.532	6	
Chloroform	1.034	1.364	1.366	1.323	1.282	1.288	1.276	9.7	
Benzene	1.330	1.577	1.566	1.523	1.473	1.459	1.488	6.1	
1,2-Dichloroethane	0.513	0.595	0.600	0.582	0.554	0.553	0.566	5.8	
Trichloroethene	0.296	0.382	0.382	0.370	0.364	0.363	0.360	8.9	
Tetrachloroethene	0.299	0.354	0.342	0.326	0.320	0.314	0.326	6	
Chlorobenzene	0.998	1.182	1.177	1.178	1.139	1.142	1.136	6.2	
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

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

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)
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

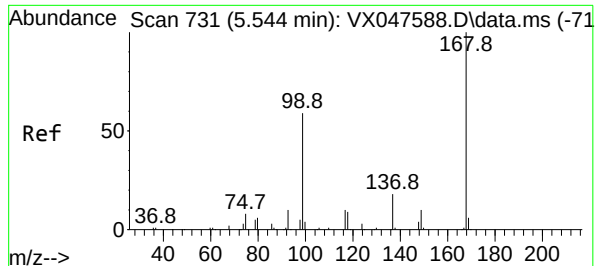
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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





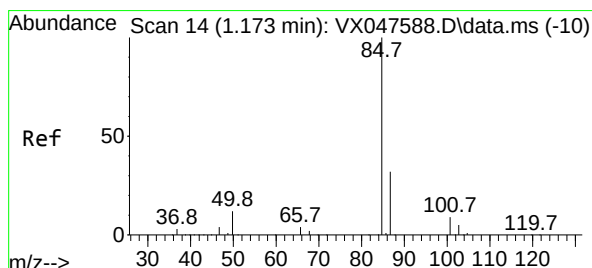
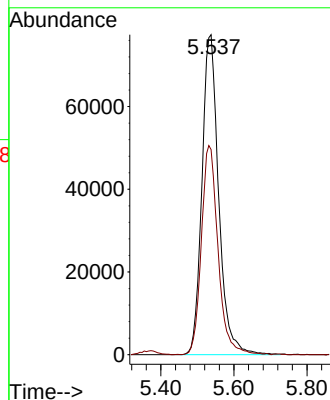
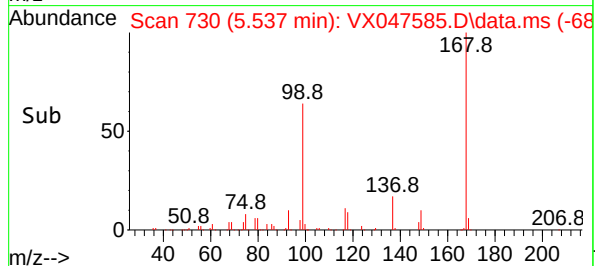
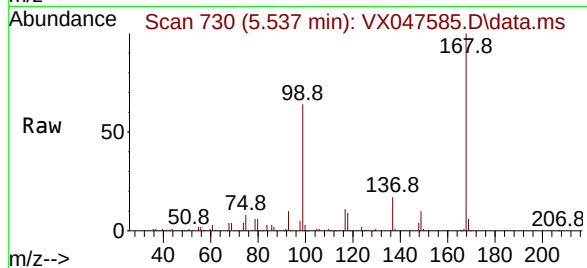
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.007 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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

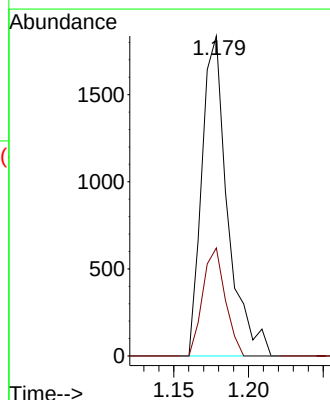
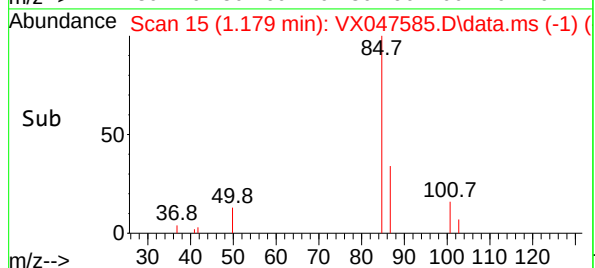
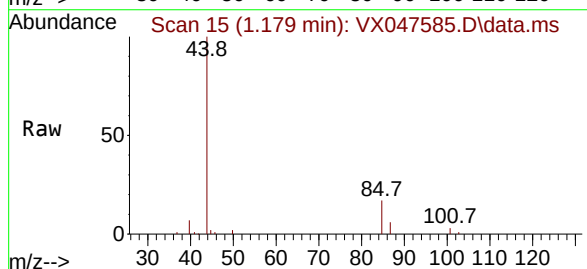
Manual Integrations
APPROVED

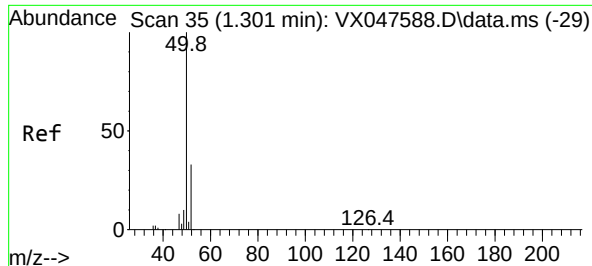
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





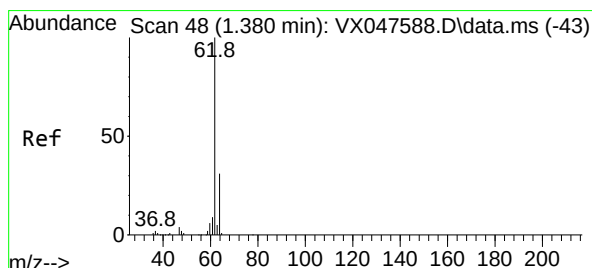
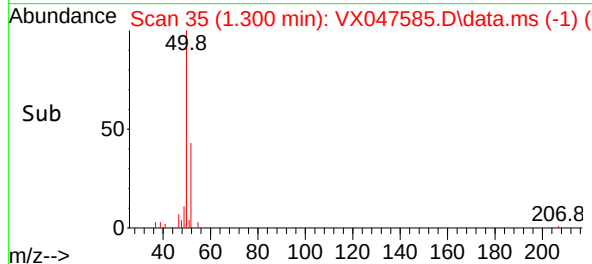
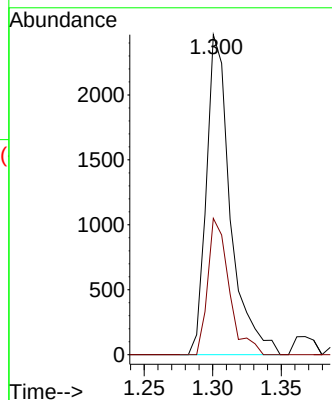
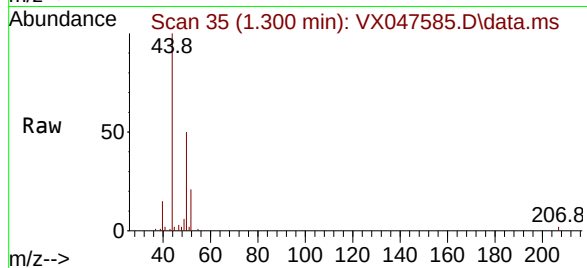
#3
Chloromethane
Concen: 0.897 ug/l
RT: 1.300 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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

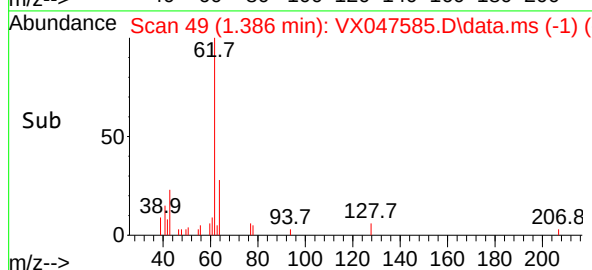
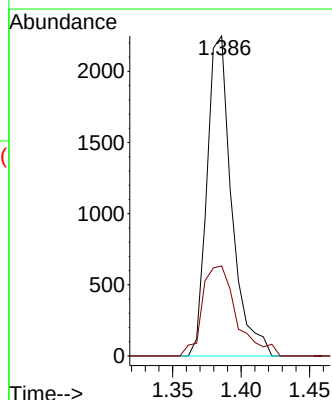
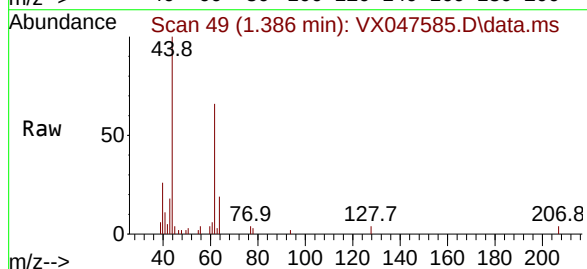
Manual Integrations
APPROVED

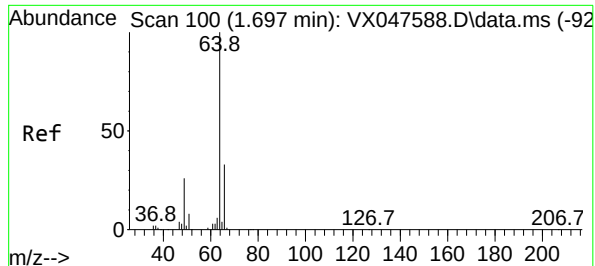
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

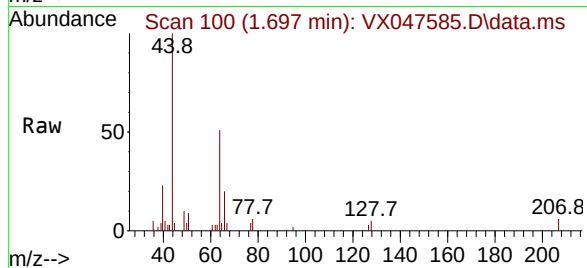
Tgt Ion: 62 Resp: 2818
Ion Ratio Lower Upper
62 100
64 28.2 24.9 37.3





#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

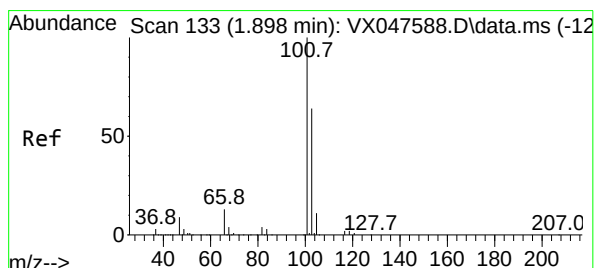
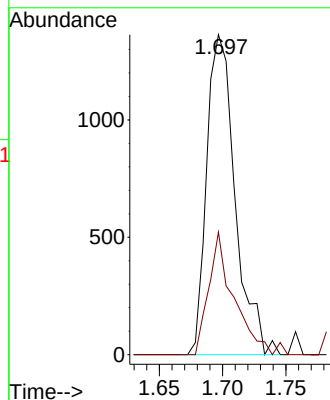
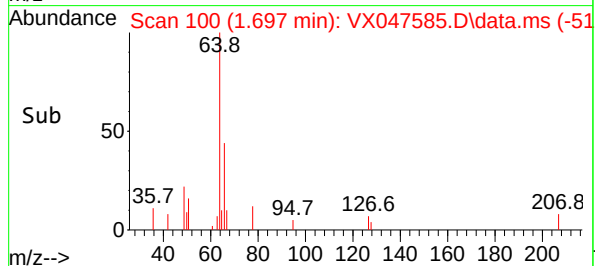
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



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

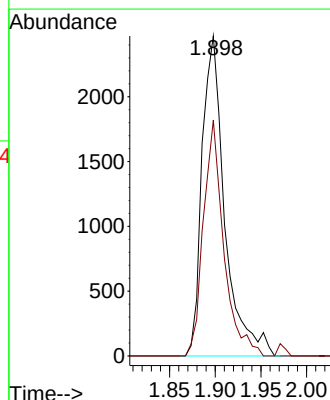
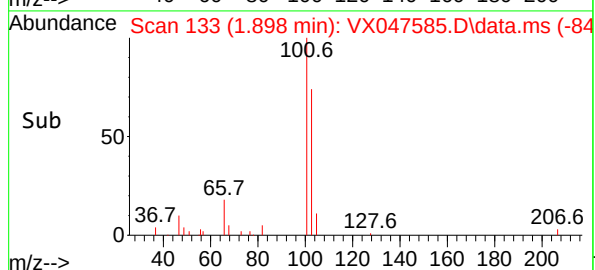
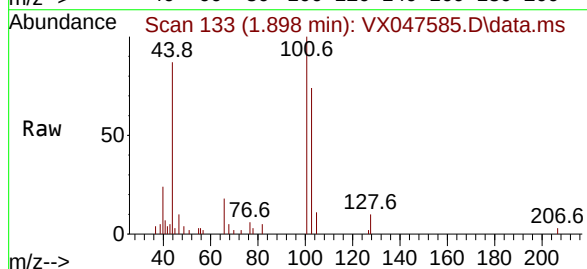
Manual Integrations
APPROVED

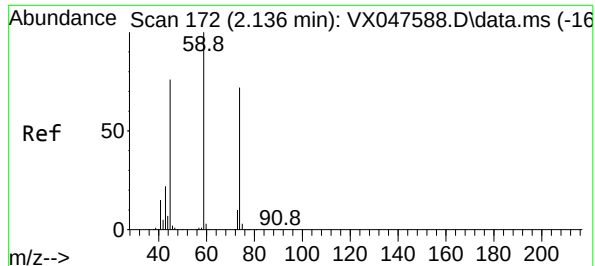
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

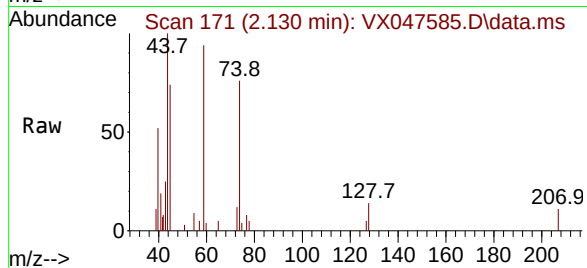
Tgt Ion:101 Resp: 4261
Ion Ratio Lower Upper
101 100
103 73.7 51.4 77.2





#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

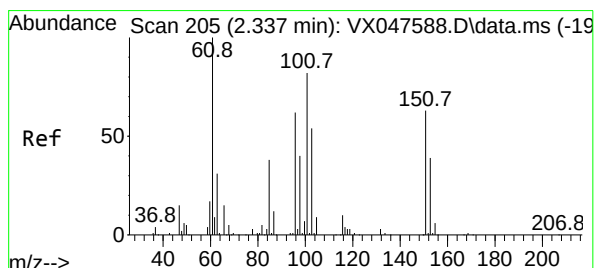
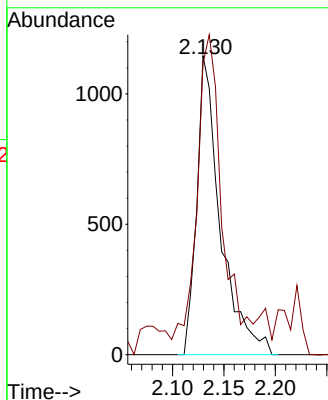
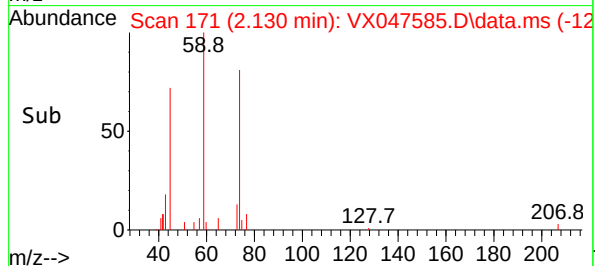
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



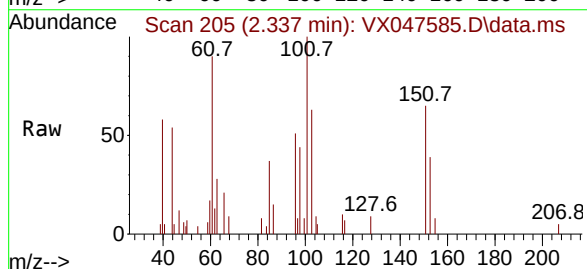
Tgt Ion: 74 Resp: 183
Ion Ratio Lower Upper
74 100
45 102.2 52.3 156.8

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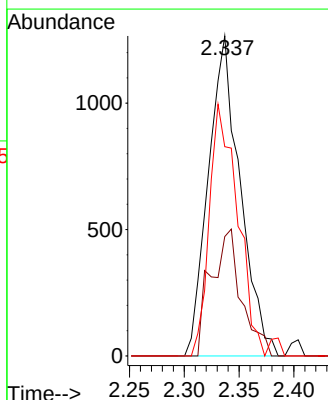
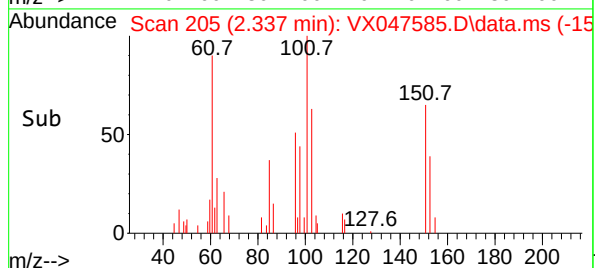
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

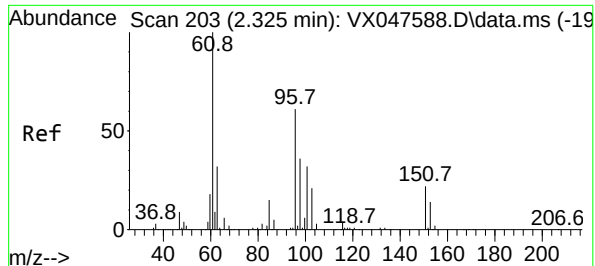


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.897 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23



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

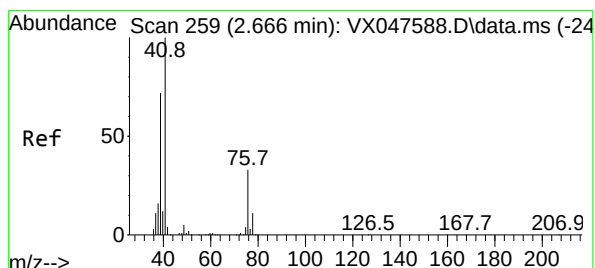
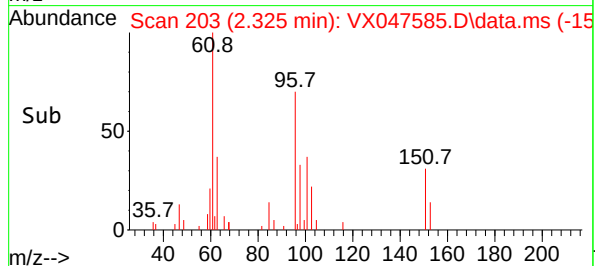
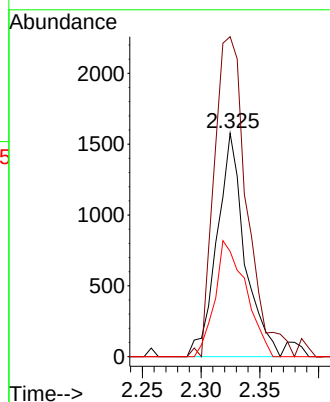
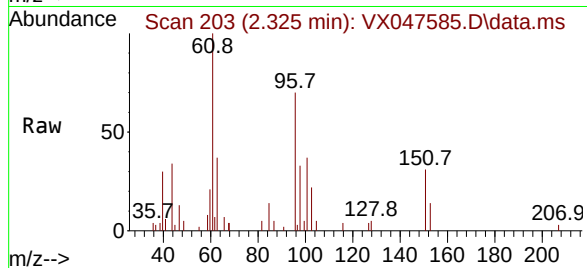
Tgt Ion:	96	Resp:	2594
Ion	Ratio	Lower	Upper
96	100		
61	137.3	131.0	196.6
98	45.2	47.7	71.5

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

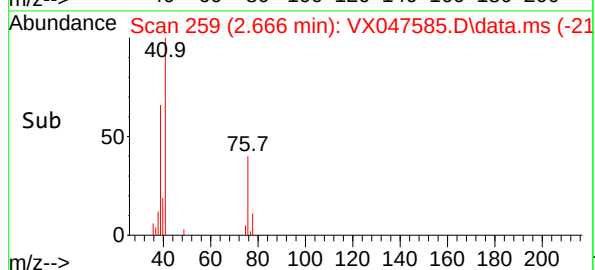
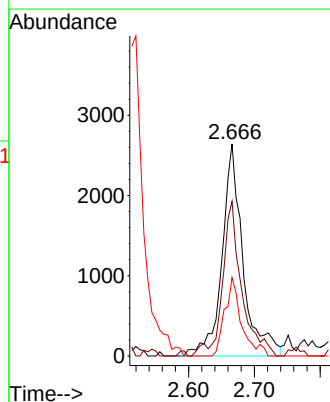
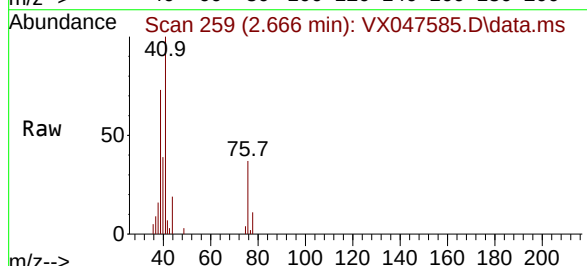
RT: 2.666 min Scan# 259

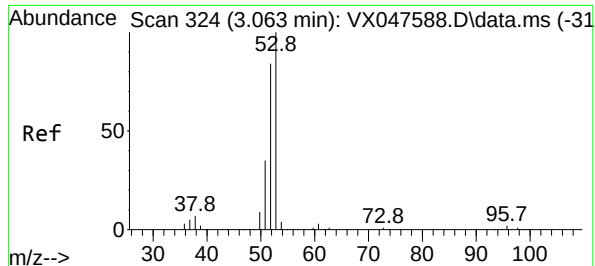
Delta R.T. -0.000 min

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 :

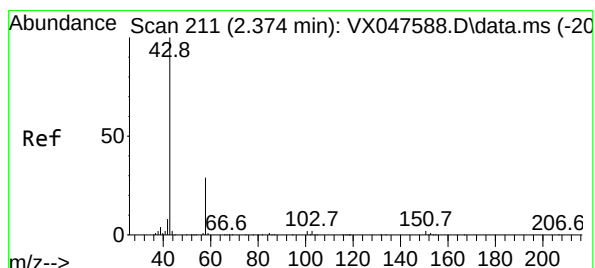
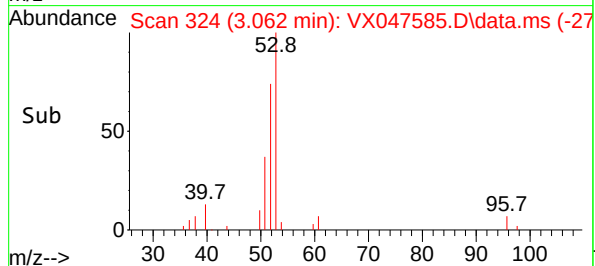
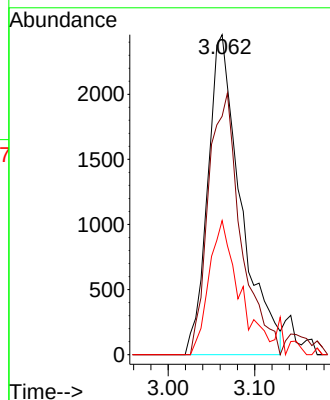
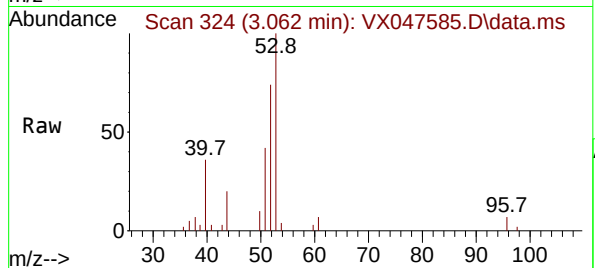
VSTDICC001

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
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#16

Acetone

Concen: 4.953 ug/l

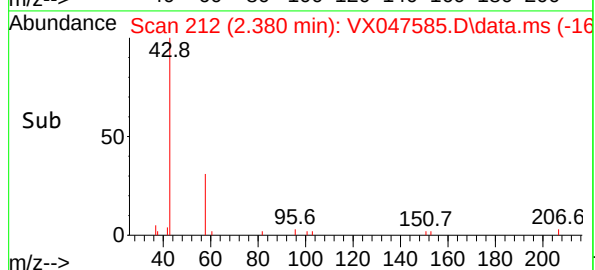
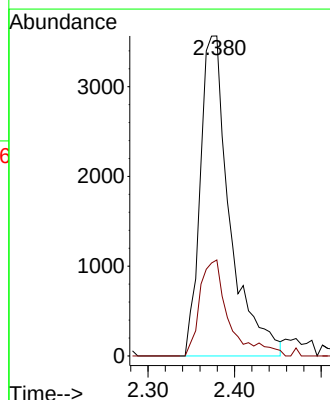
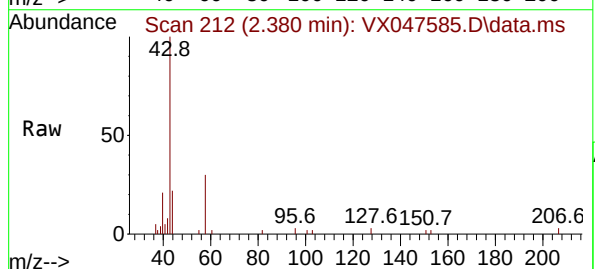
RT: 2.380 min Scan# 212

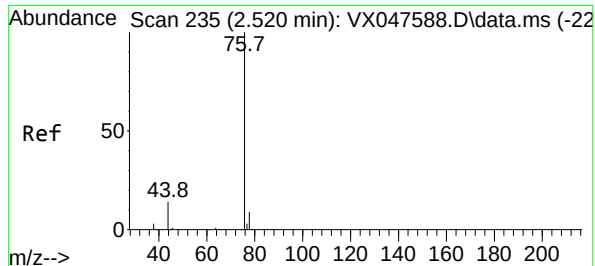
Delta R.T. 0.006 min

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

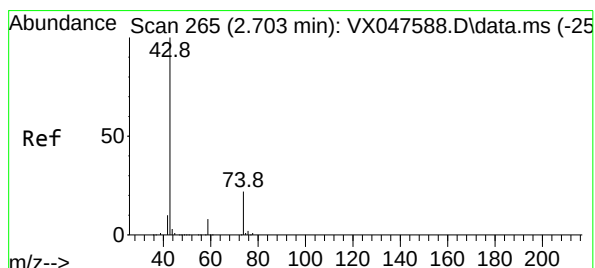
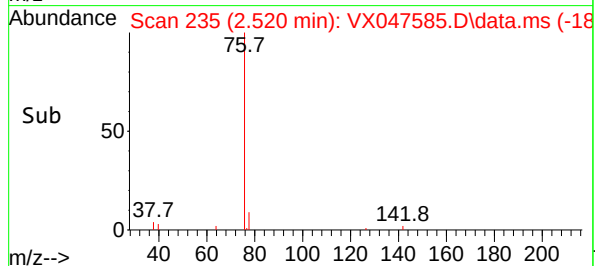
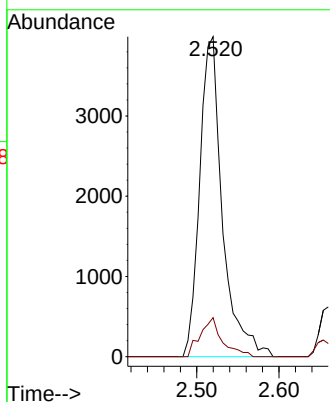
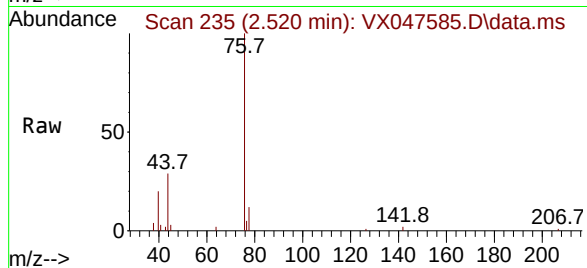
78 11.6 6.8 10.2

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

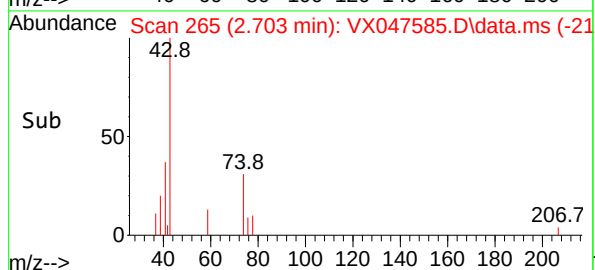
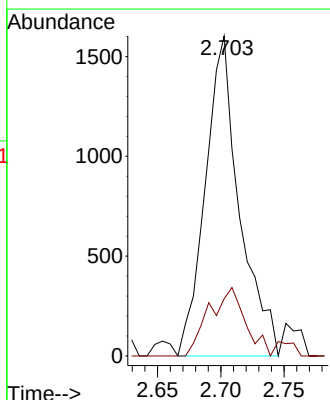
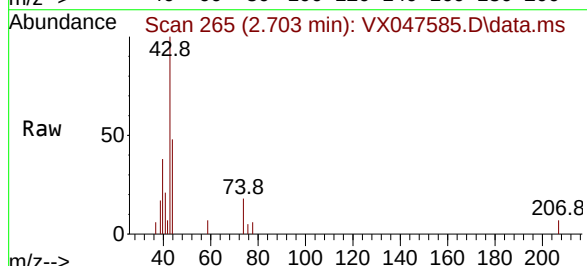
Acq: 16 Sep 2025 09:23

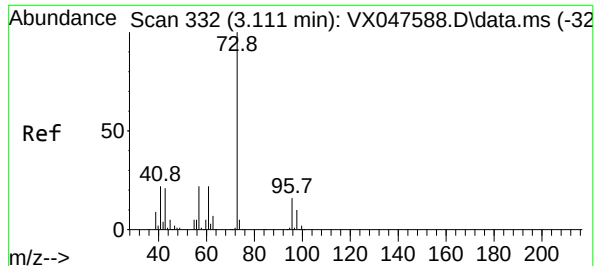
Tgt Ion: 43 Resp: 3013

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

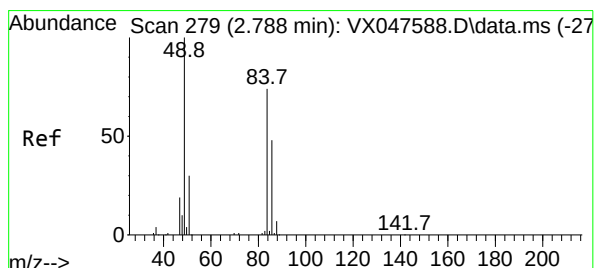
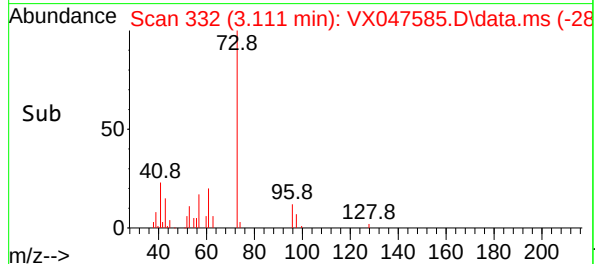
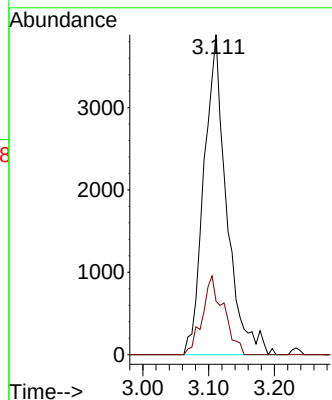
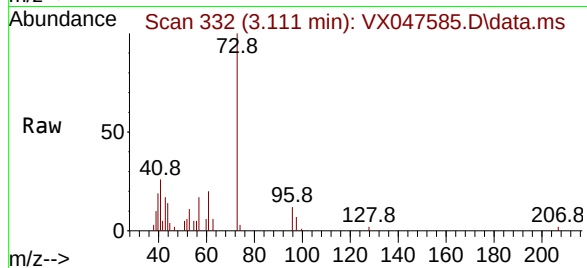
57 16.7 17.4 26.2

Manual Integrations

APPROVED

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

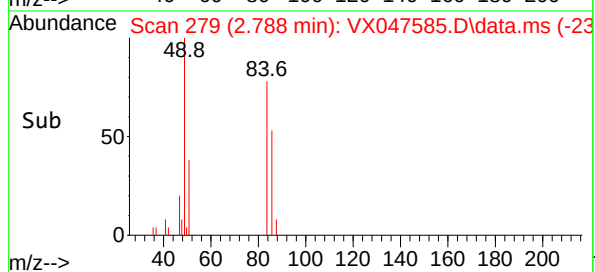
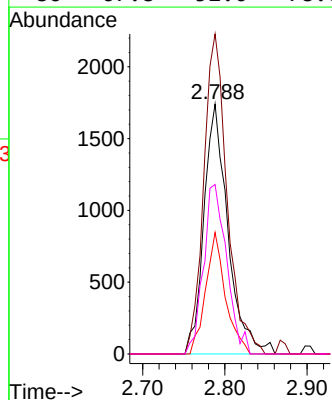
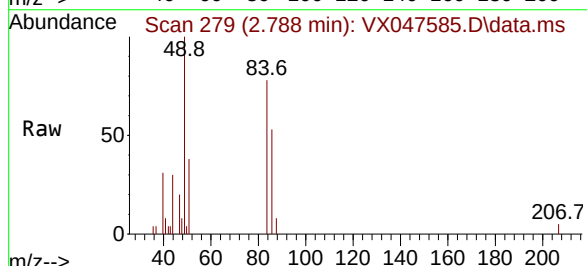
Ion Ratio Lower Upper

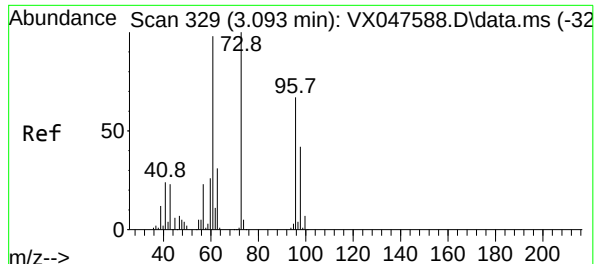
84 100

49 128.0 108.6 162.8

51 48.6 32.6 48.8

86 67.8 52.0 78.0





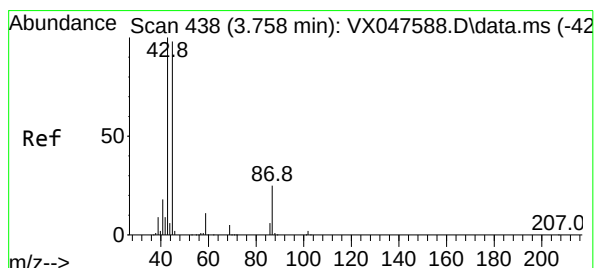
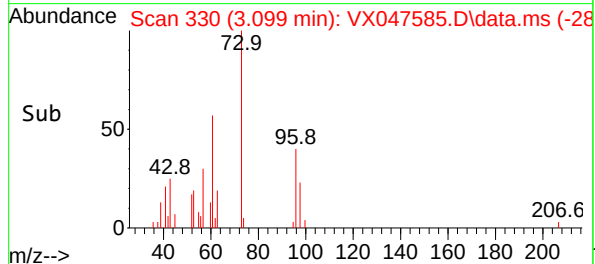
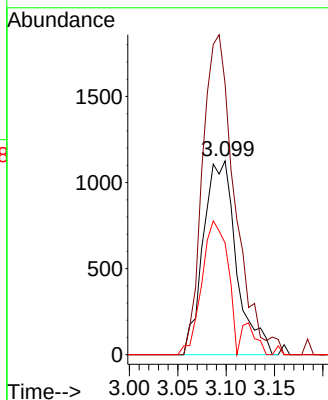
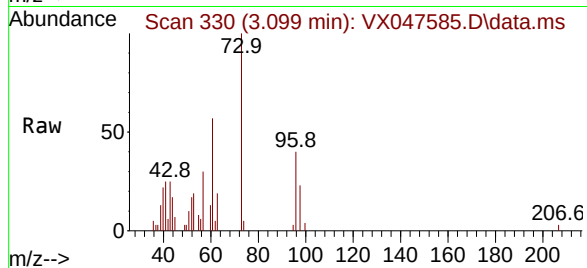
#21
trans-1,2-Dichloroethene
Concen: 0.849 ug/l
RT: 3.099 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

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

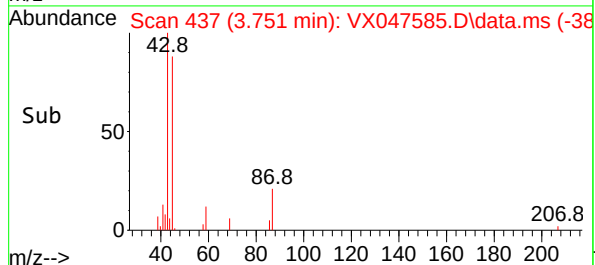
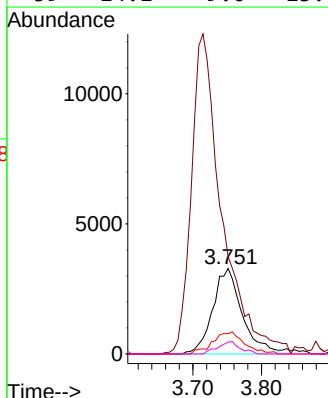
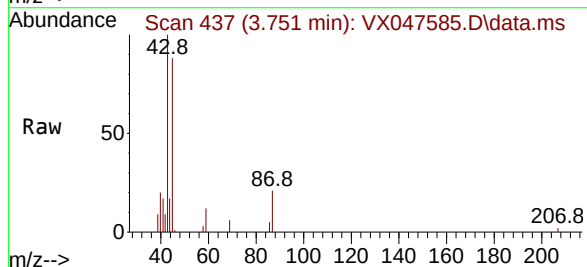
Manual Integrations
APPROVED

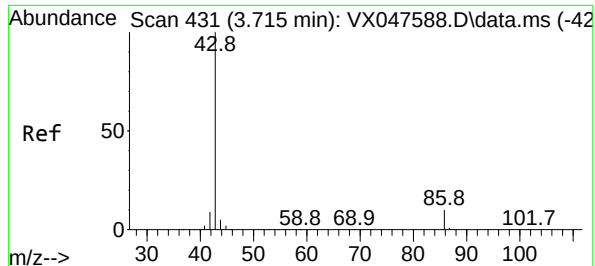
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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#





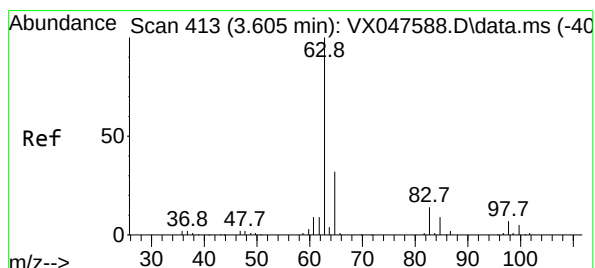
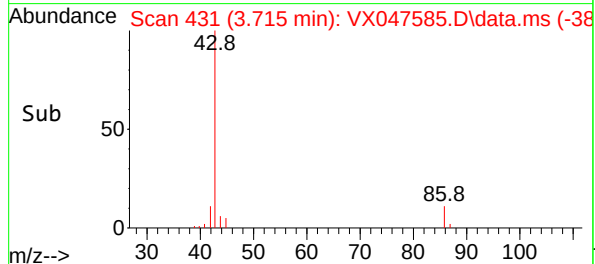
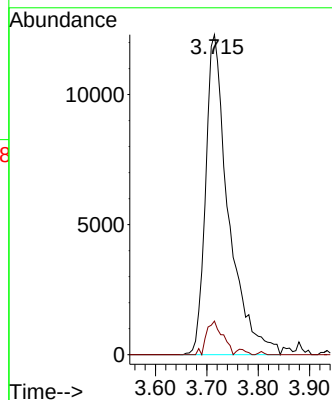
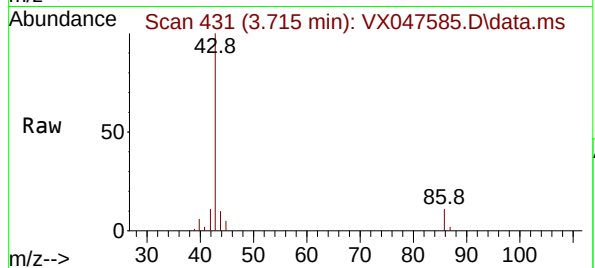
#23
Vinyl Acetate
Concen: 4.052 ug/l
RT: 3.715 min Scan# 41
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 3796
Ion Ratio Lower Upper
43 100
86 10.9 7.8 11.8

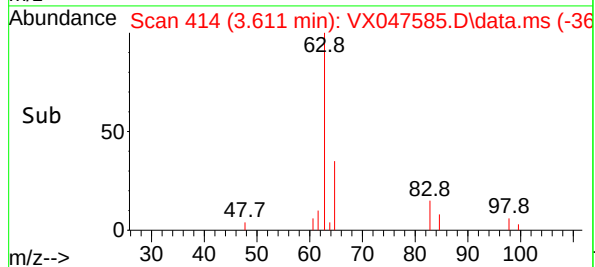
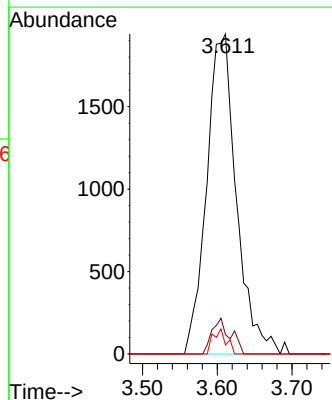
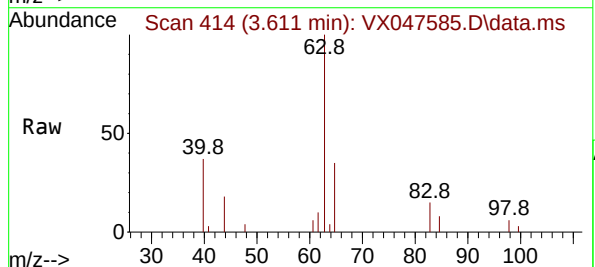
Manual Integrations
APPROVED

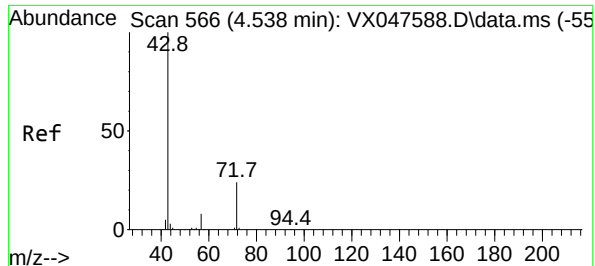
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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# 510

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

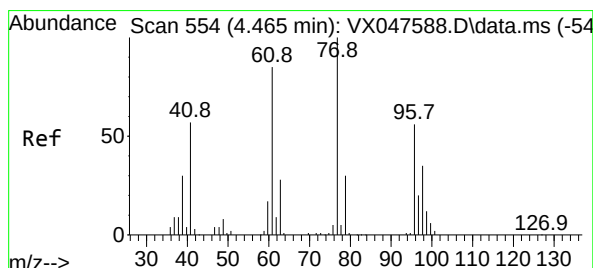
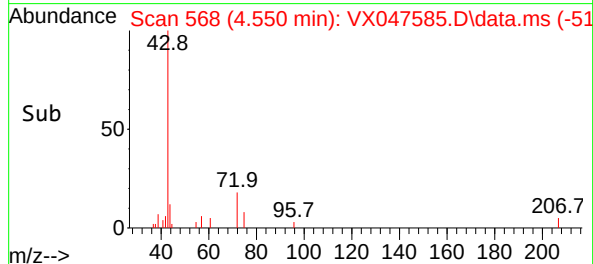
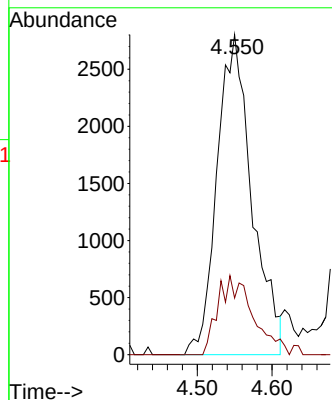
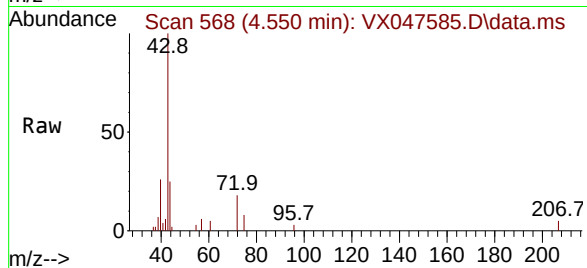
72 16.3 20.1 30.1

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

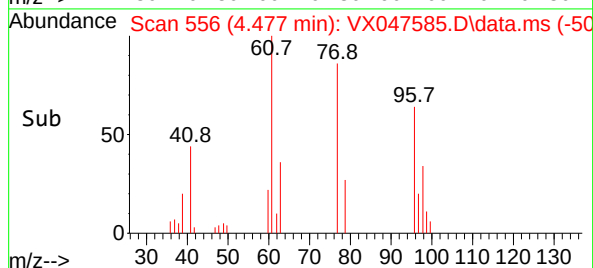
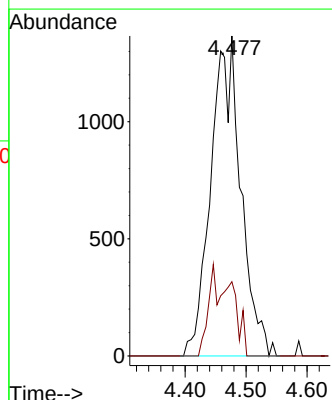
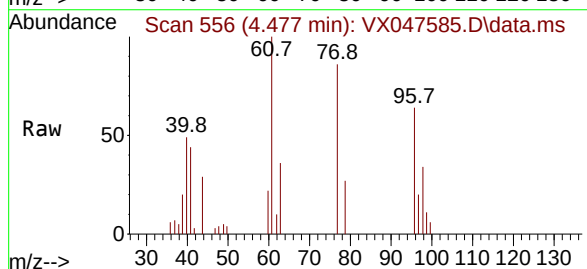
Acq: 16 Sep 2025 09:23

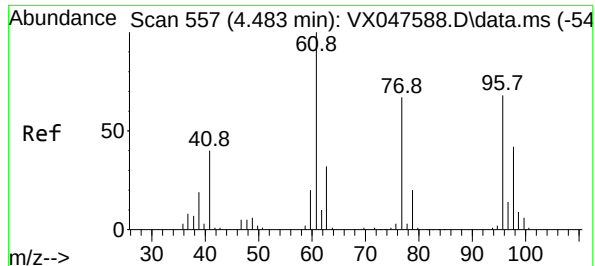
Tgt Ion: 77 Resp: 4657

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 :

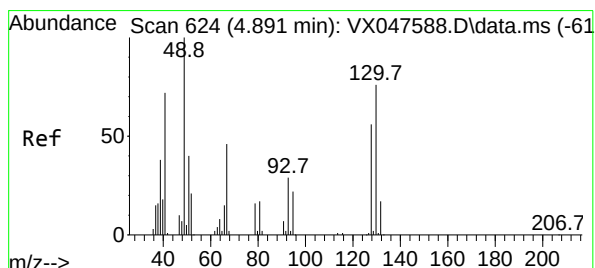
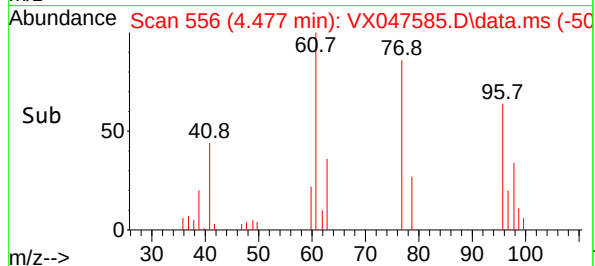
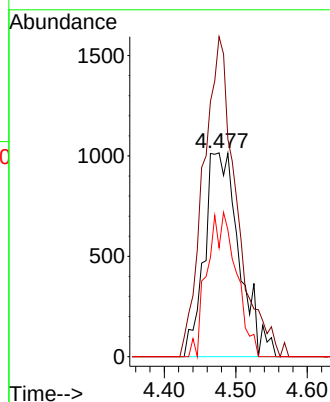
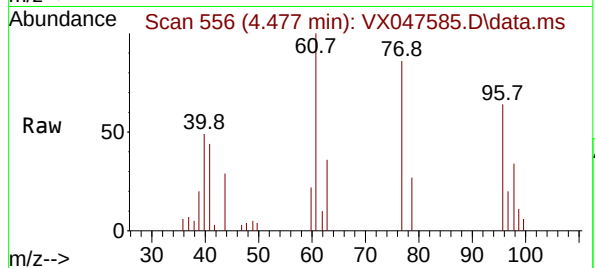
VSTDIC001

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

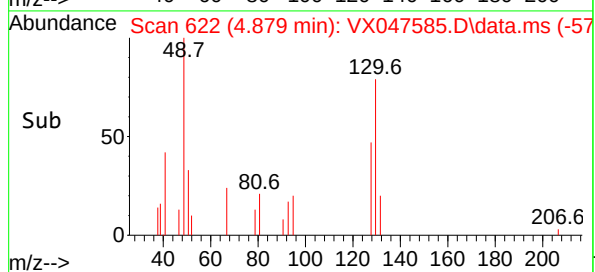
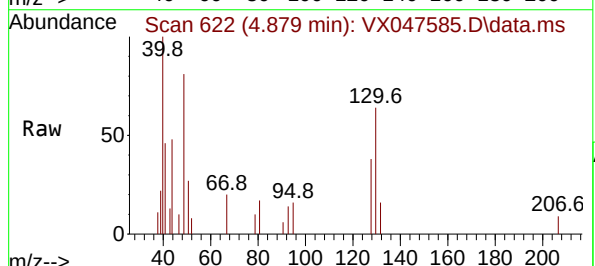
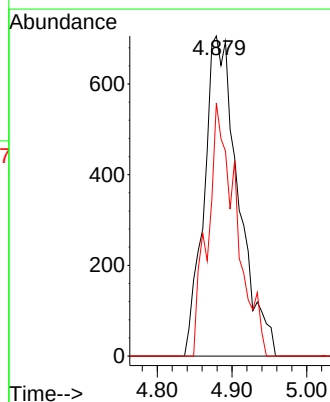
RT: 4.879 min Scan# 622

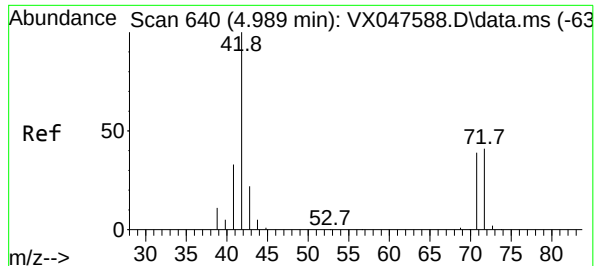
Delta R.T. -0.012 min

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 :

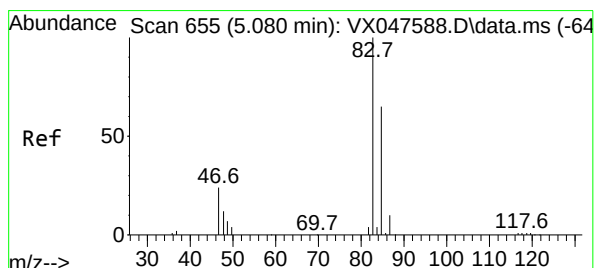
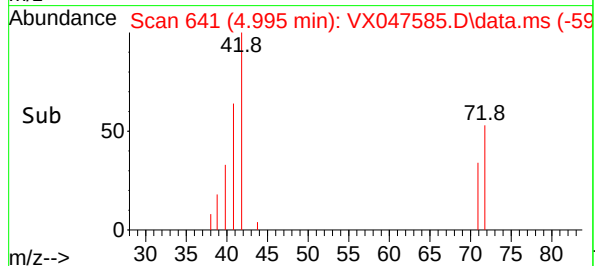
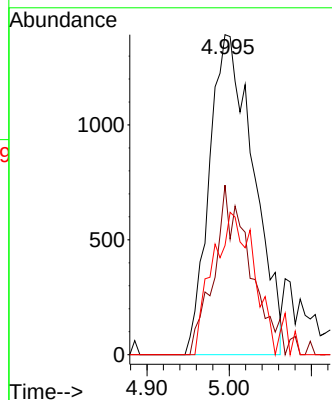
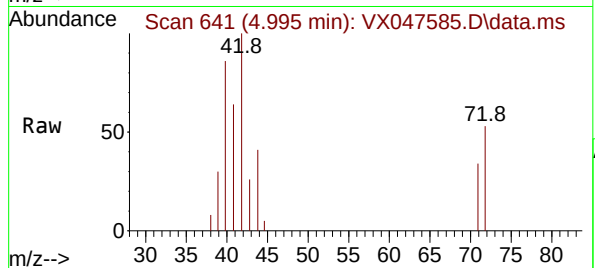
VSTDIC001

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

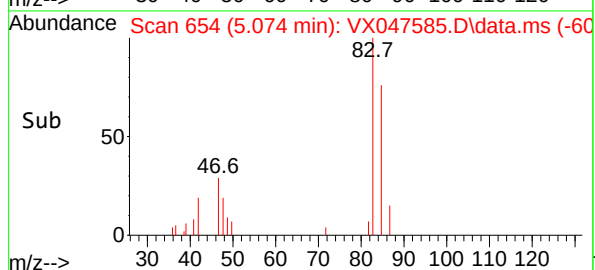
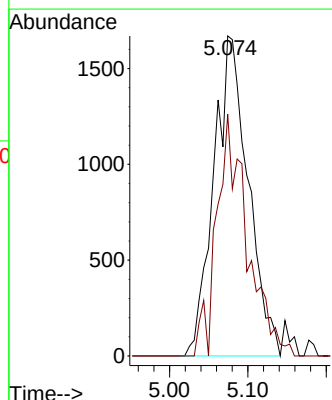
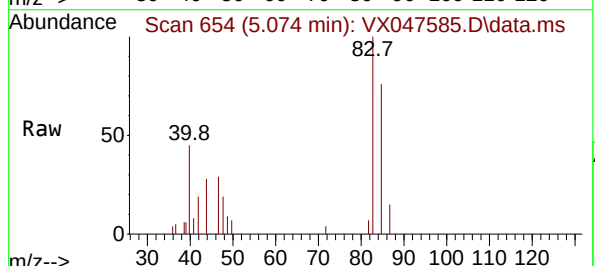
RT: 5.074 min Scan# 654

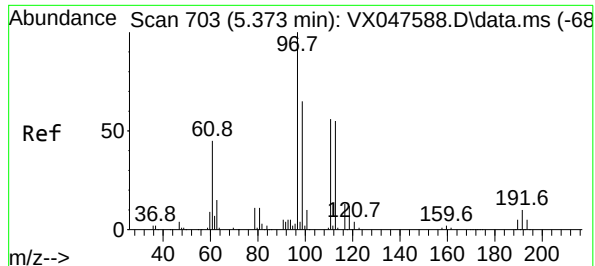
Delta R.T. -0.006 min

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 :

VSTDIC001

Tgt Ion: 97 Resp: 4439

Ion Ratio Lower Upper

97 100

99 0.0 50.6 76.0

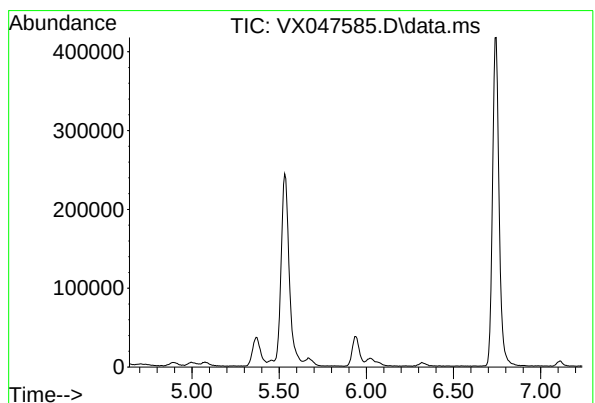
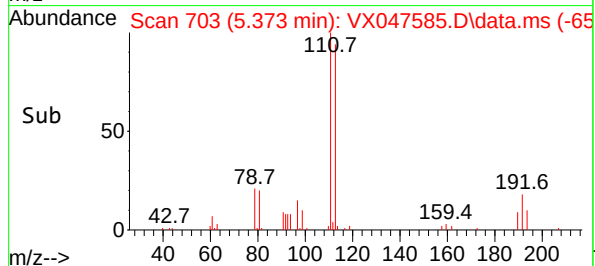
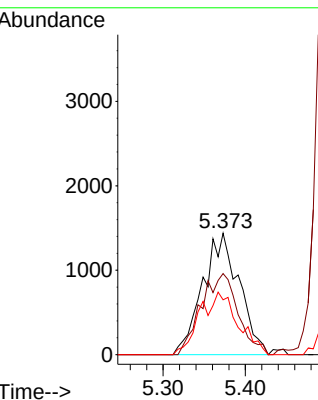
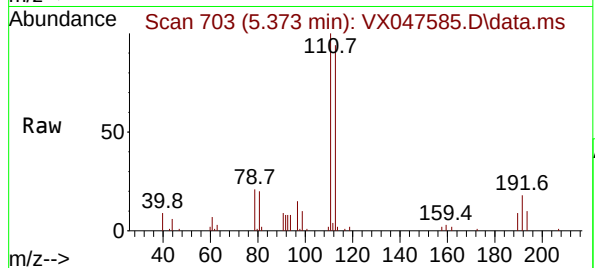
61 36.2 35.8 53.8

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

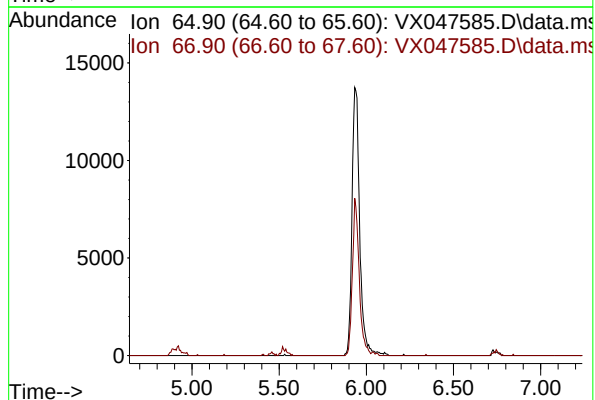
Acq: 16 Sep 2025 09:23

Tgt Ion: 65

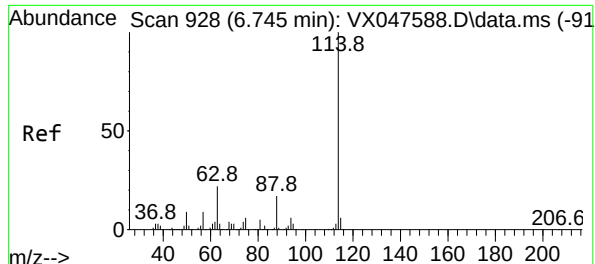
Sig Exp Ratio

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 :

VSTDIC001

Tgt Ion:114 Resp: 45150

Ion Ratio Lower Upper

114 100

63 22.8 0.0 44.0

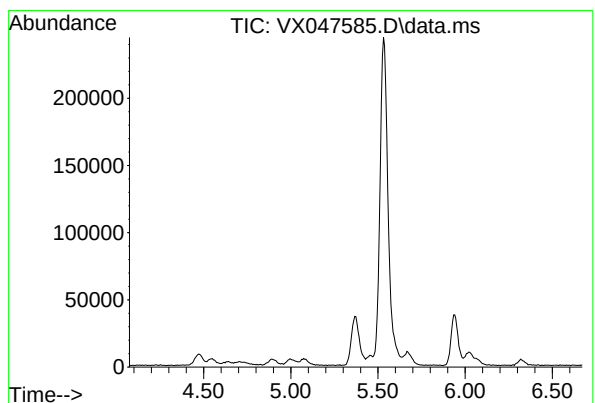
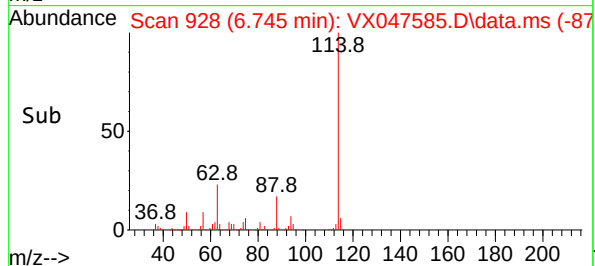
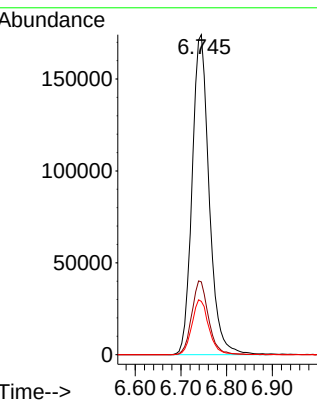
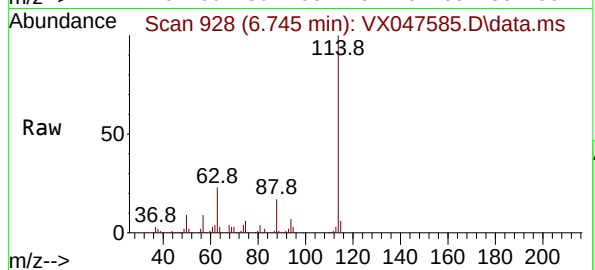
88 16.6 0.0 34.2

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

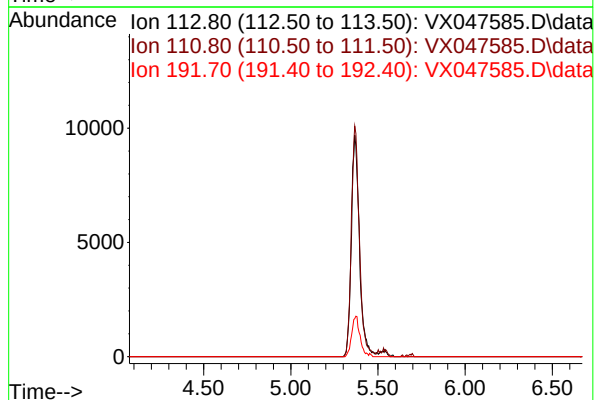
Tgt Ion: 113

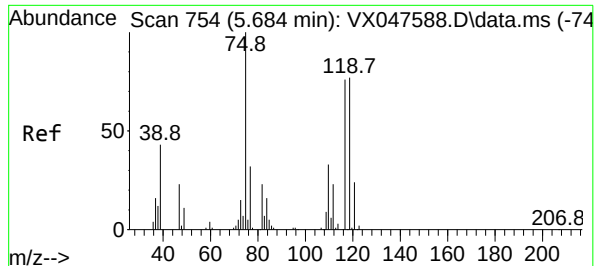
Sig Exp Ratio

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#

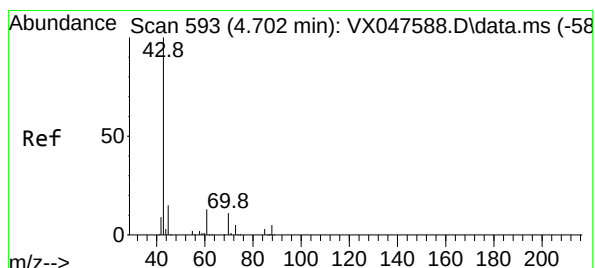
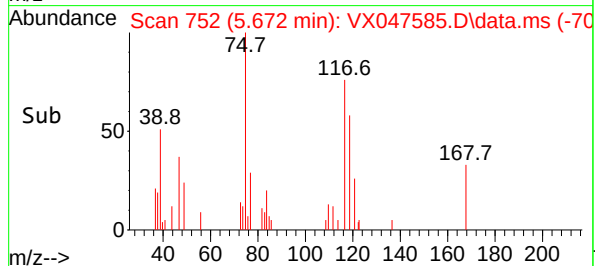
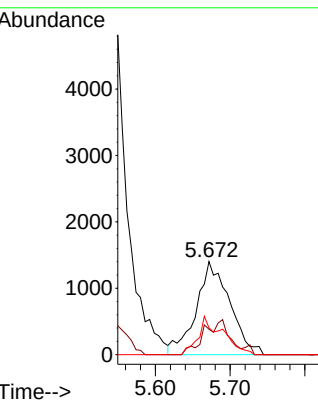
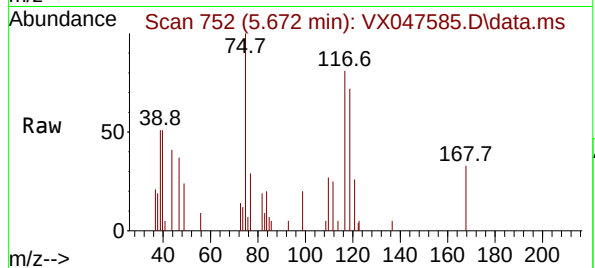
77 30.0 24.3 36.5#

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

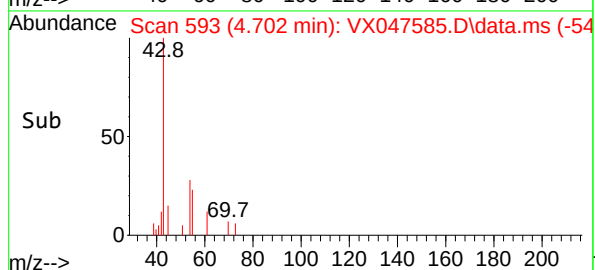
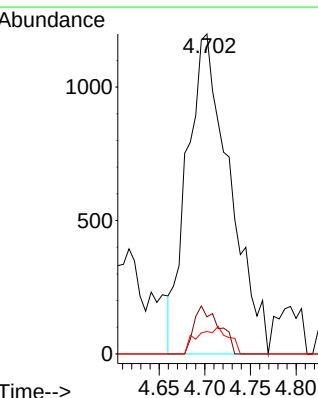
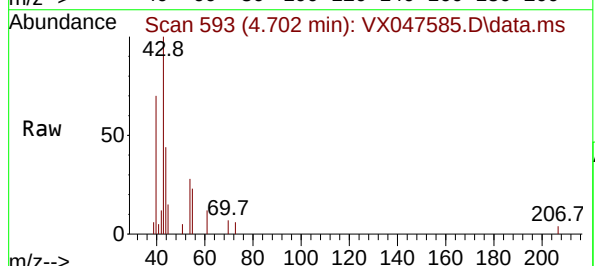
Tgt Ion: 43 Resp: 3873

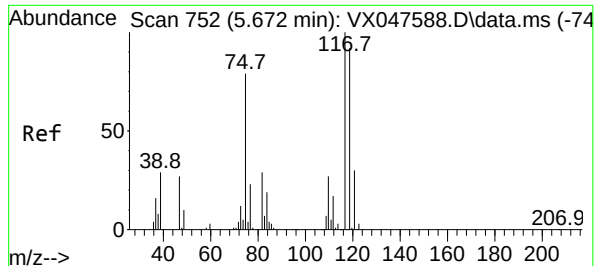
Ion Ratio Lower Upper

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

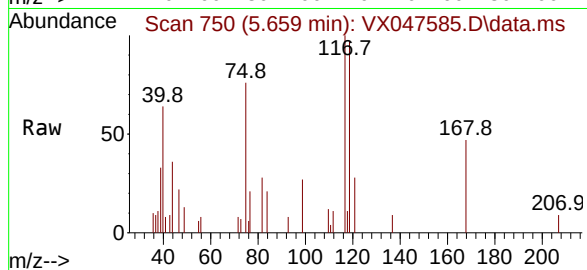
Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001



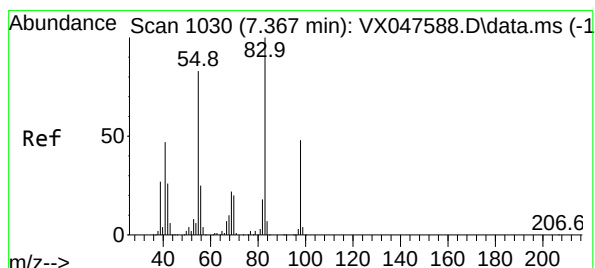
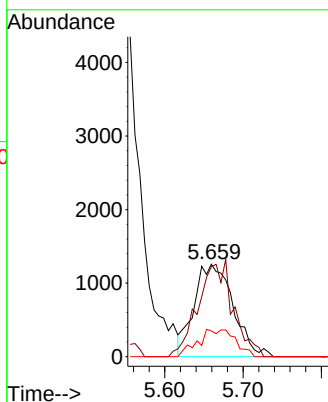
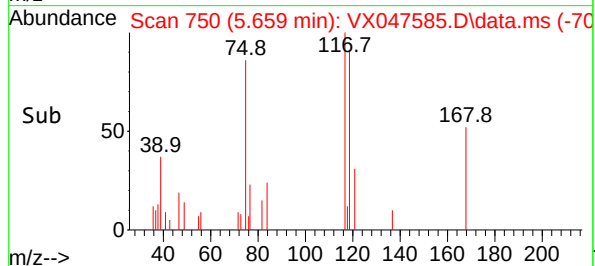
Tgt Ion:	117	Resp:	4349
Ion	Ratio	Lower	Upper
117	100		
119	97.3	73.4	110.2
121	27.8	23.8	35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#39

Methylcyclohexane

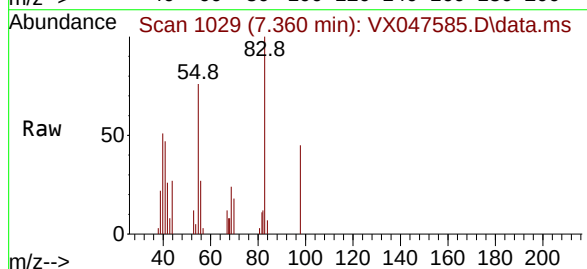
Concen: 0.882 ug/l

RT: 7.360 min Scan# 1029

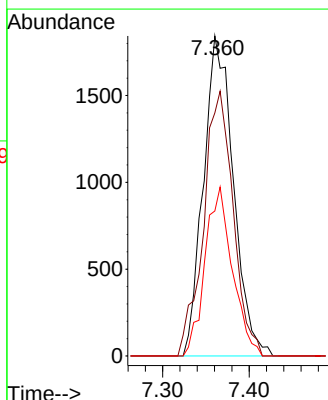
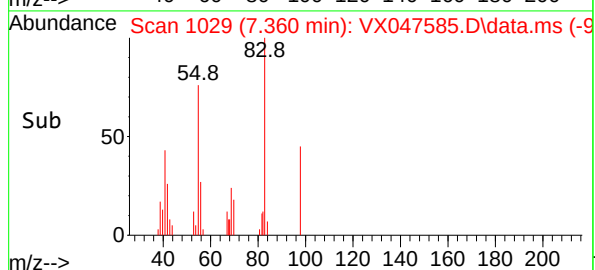
Delta R.T. -0.006 min

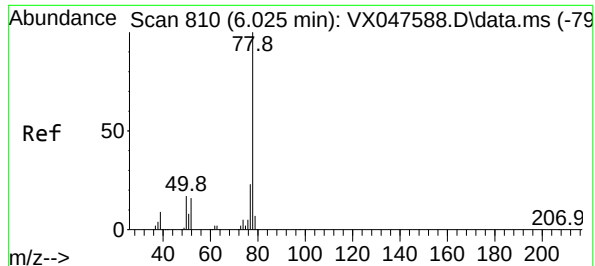
Lab File: VX047585.D

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

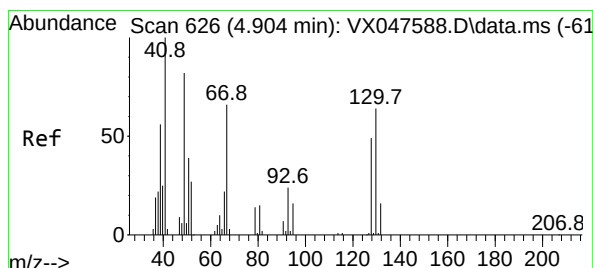
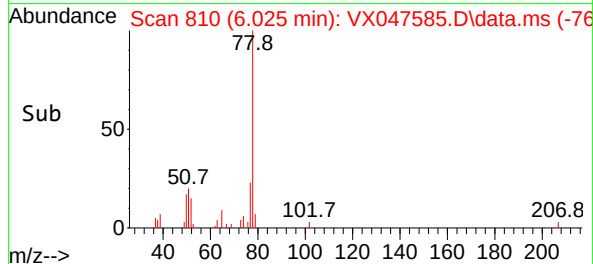
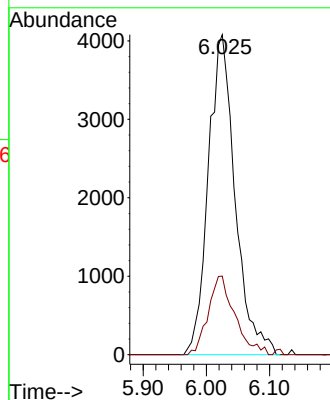
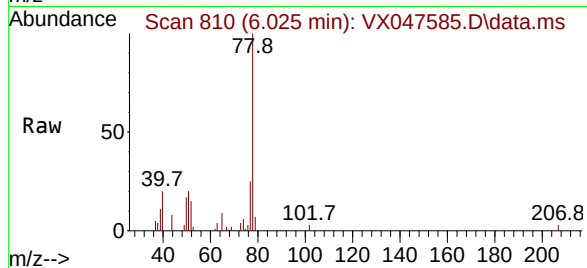
77 24.5 18.8 28.2

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

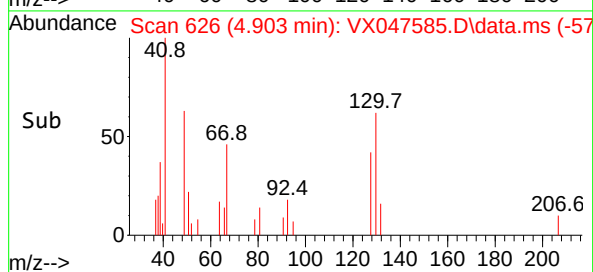
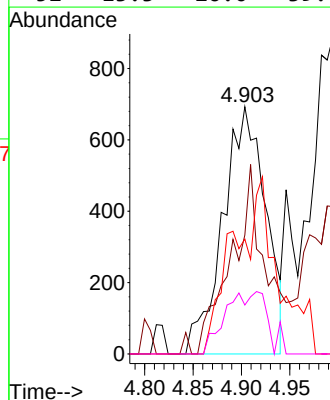
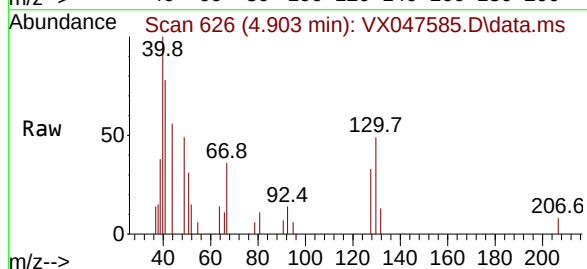
Ion Ratio Lower Upper

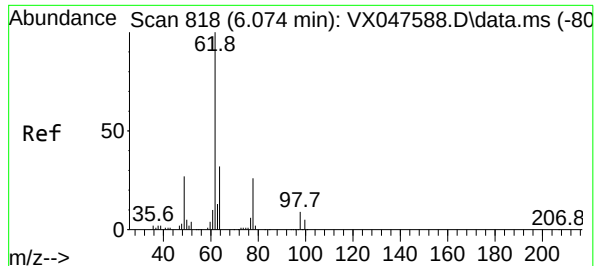
41 100

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 :

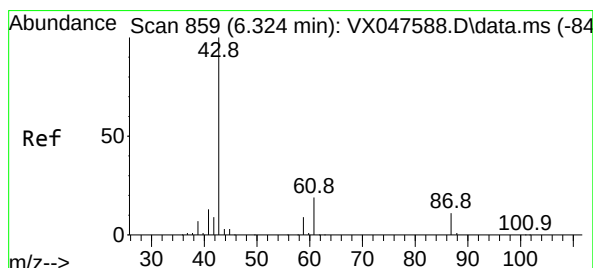
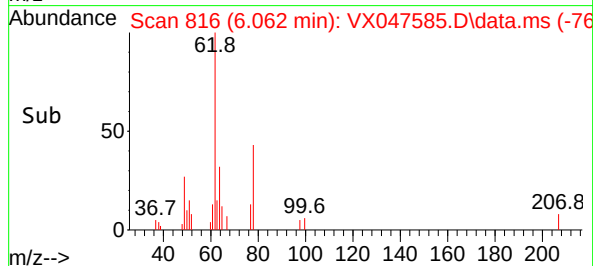
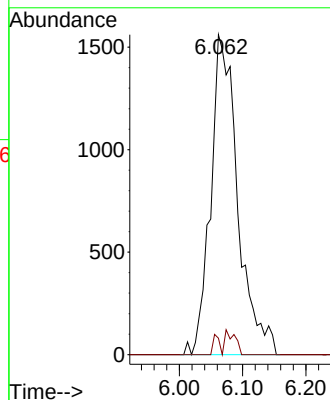
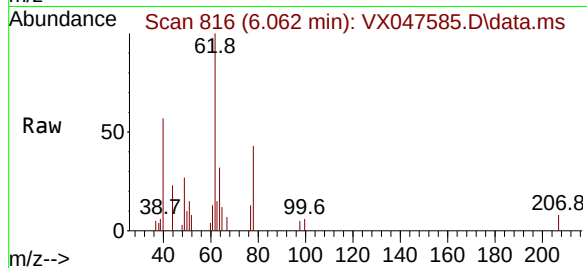
VSTDICC001

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

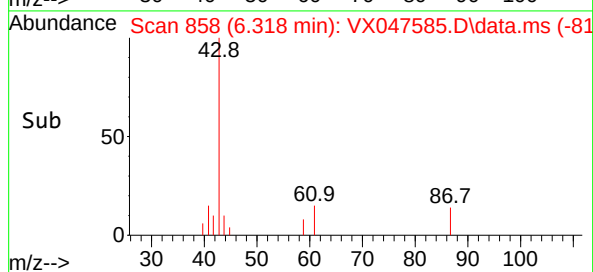
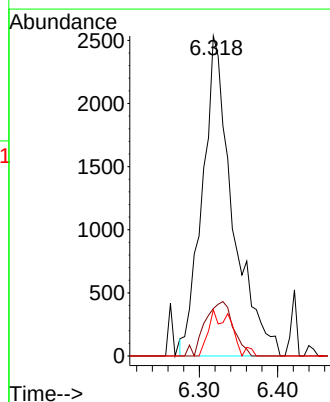
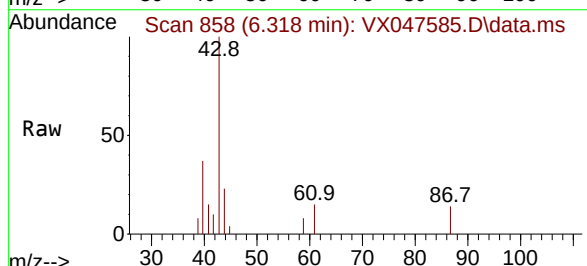
RT: 6.318 min Scan# 858

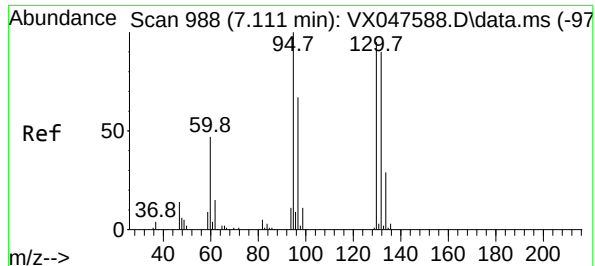
Delta R.T. -0.006 min

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

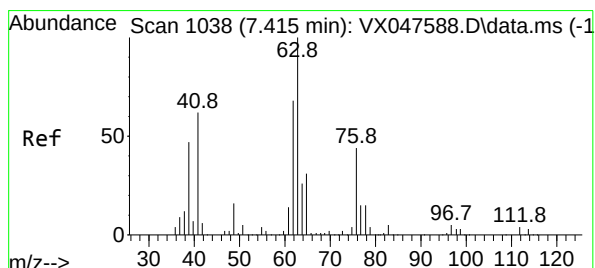
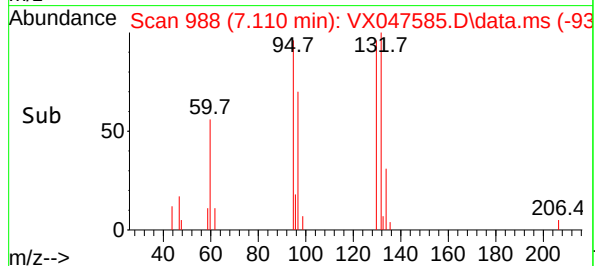
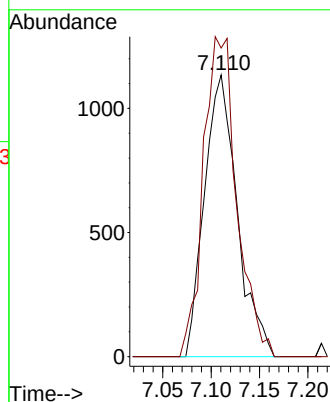
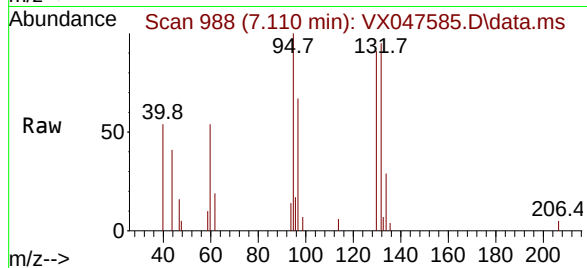
ClientSampleId :

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

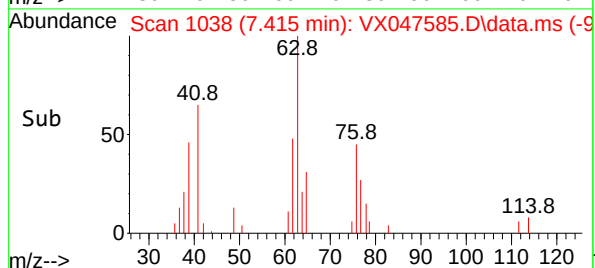
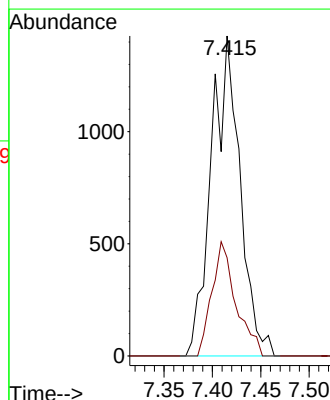
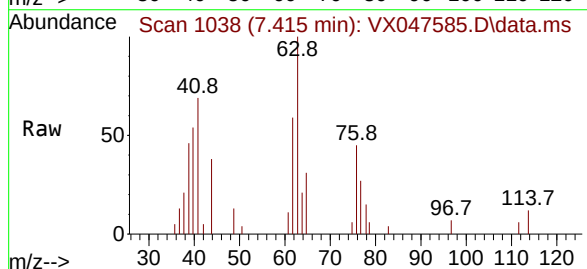
RT: 7.415 min Scan# 1038

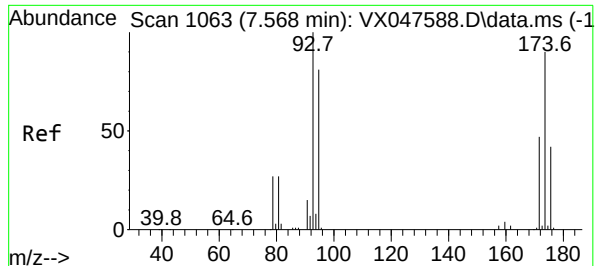
Delta R.T. -0.000 min

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

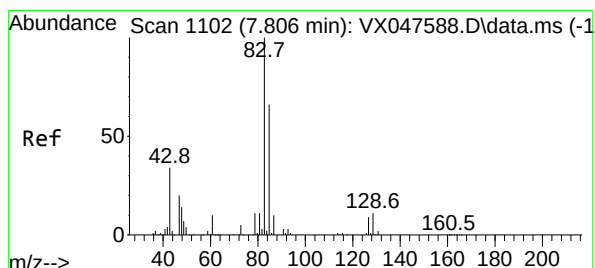
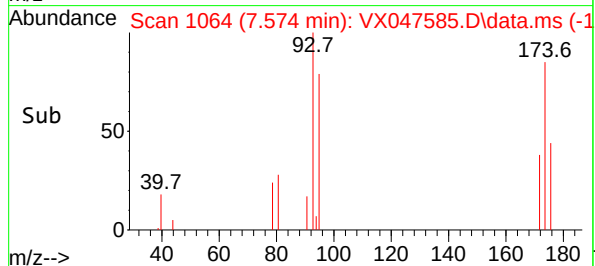
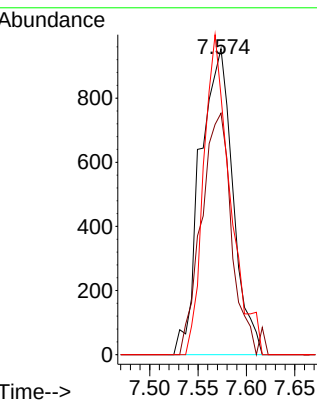
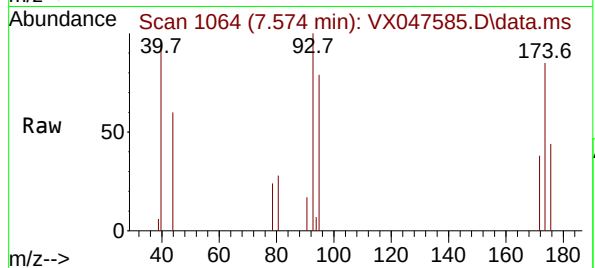
174 85.1 71.6 107.4

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

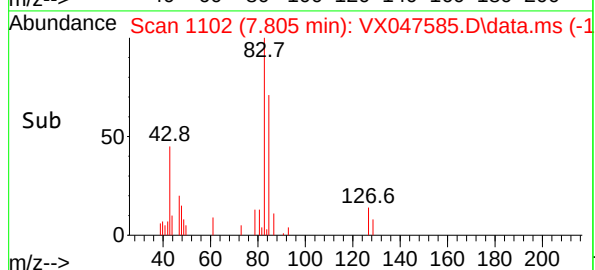
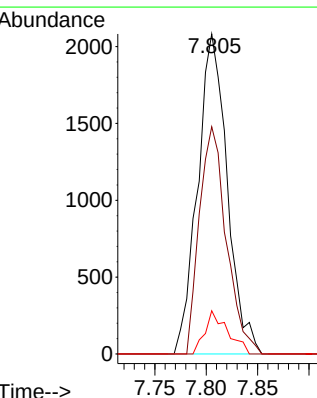
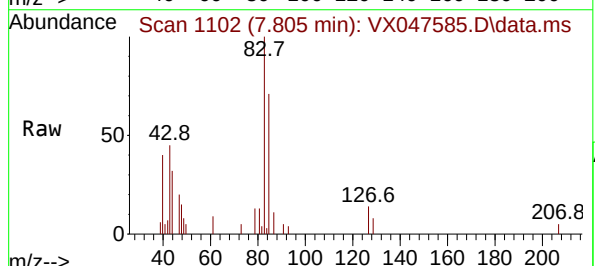
Tgt Ion: 83 Resp: 4167

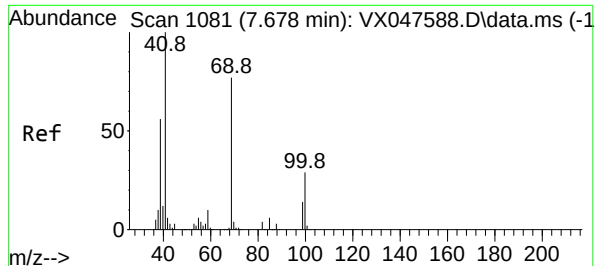
Ion Ratio Lower Upper

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# 1081

Delta R.T. 0.006 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

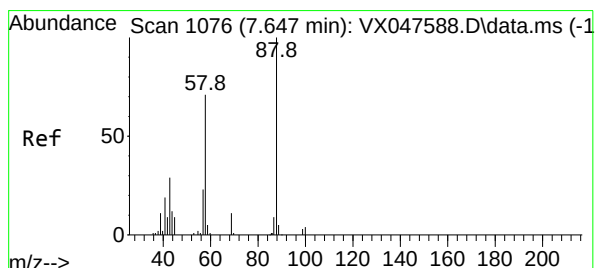
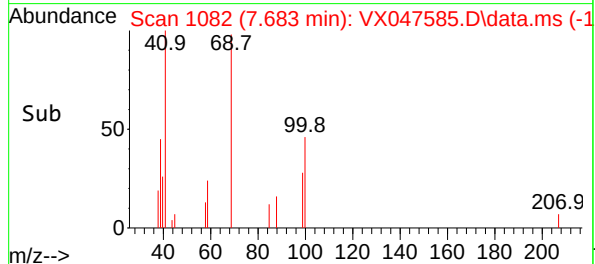
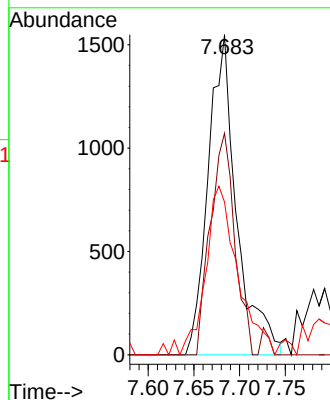
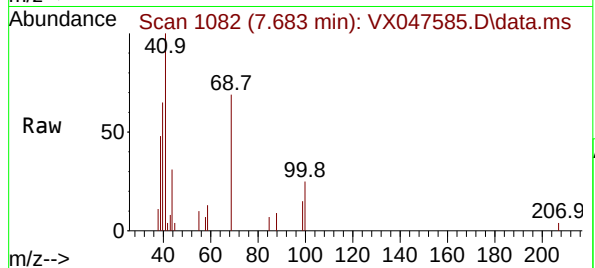
Tgt Ion:	41	Resp:	335
Ion	Ratio	Lower	Upper
41	100		
69	59.3	61.4	92.2
39	59.5	45.8	68.6

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

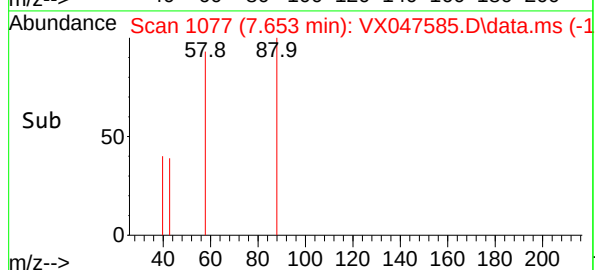
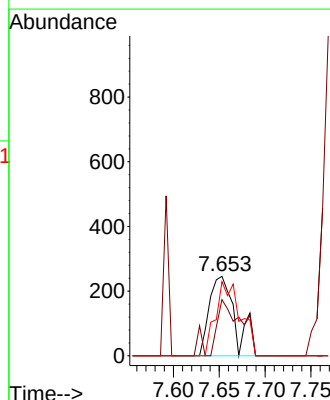
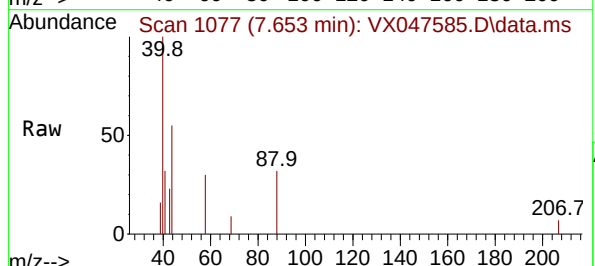
RT: 7.653 min Scan# 1077

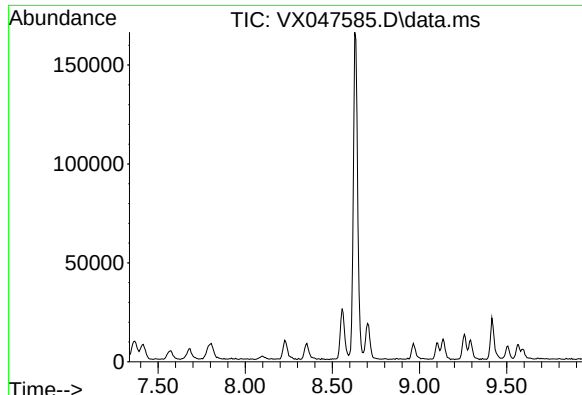
Delta R.T. 0.006 min

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

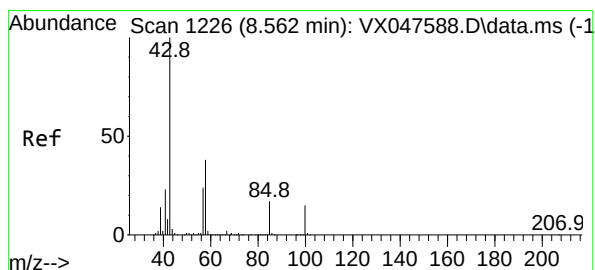
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Tgt Ion: 98
Sig Exp Ratio
98 100
100 66.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

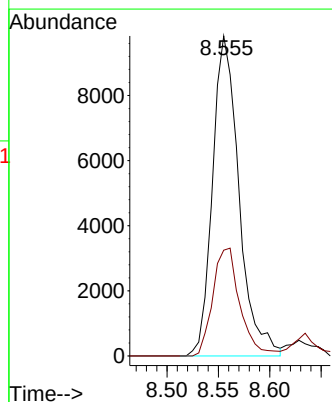
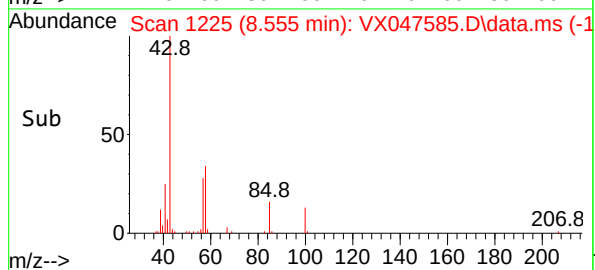
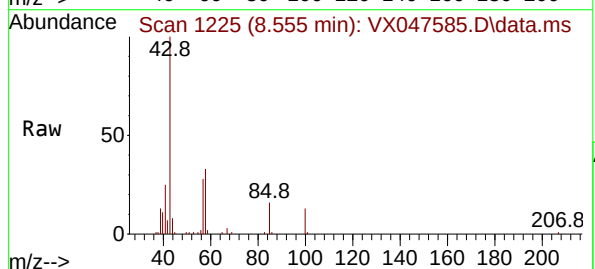
Manual Integrations
APPROVED

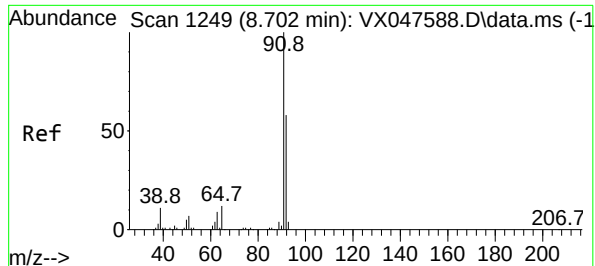
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





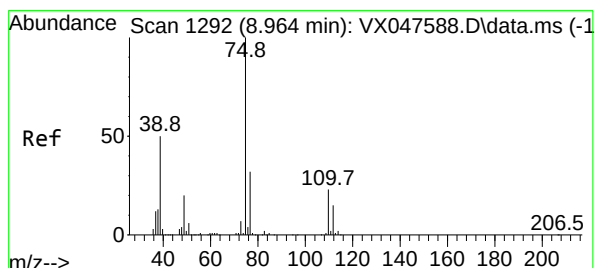
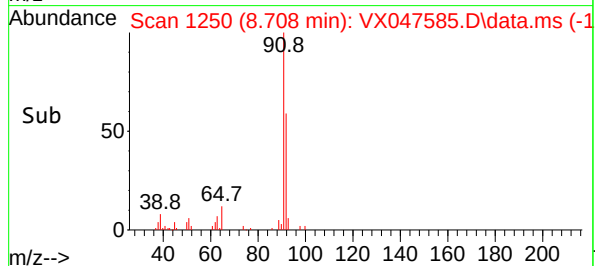
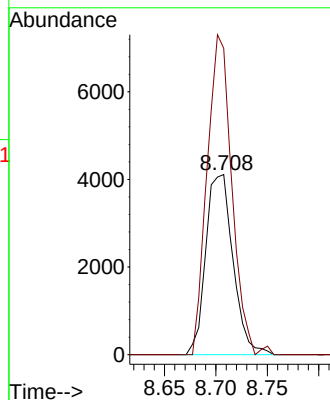
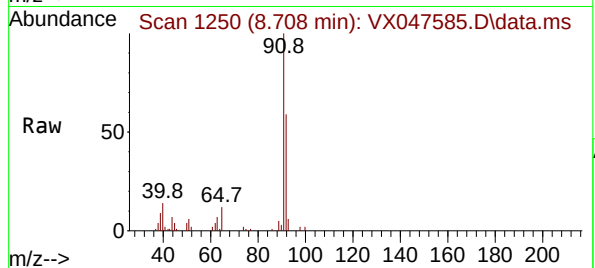
#52
Toluene
Concen: 0.917 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. 0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 92 Resp: 7598
Ion Ratio Lower Upper
92 100
91 160.7 137.1 205.7

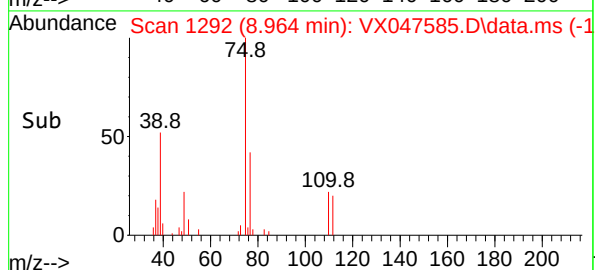
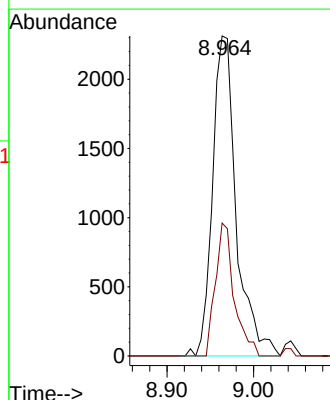
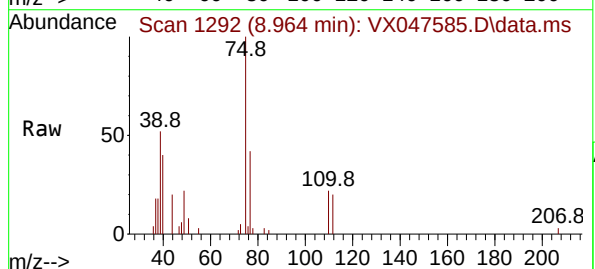
Manual Integrations
APPROVED

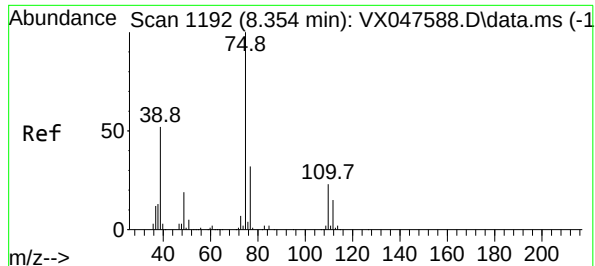
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

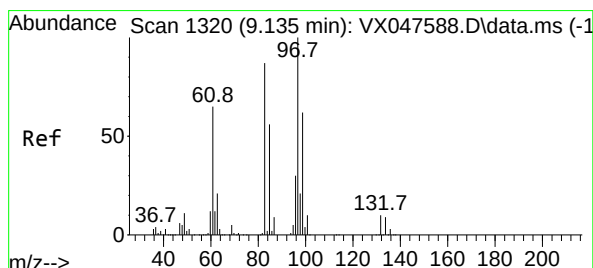
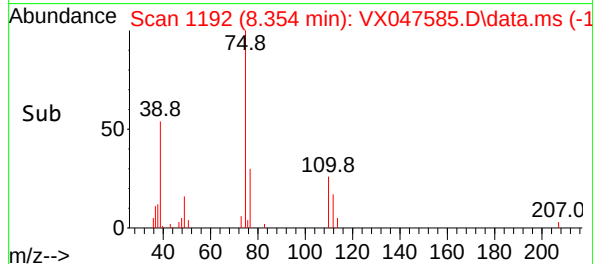
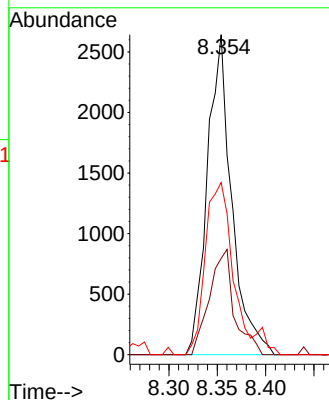
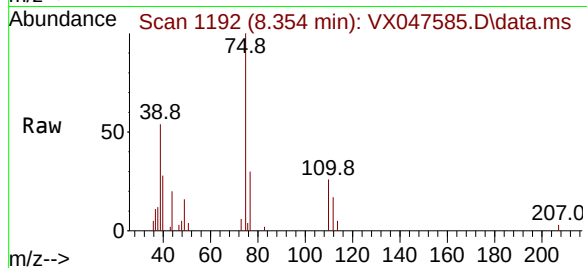
VSTDIC001

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

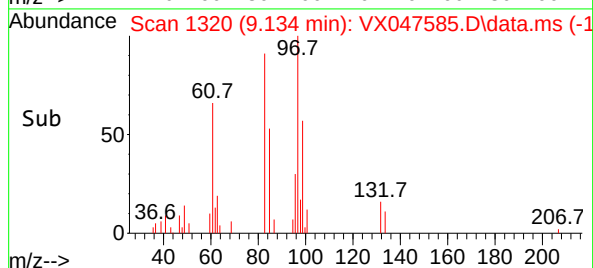
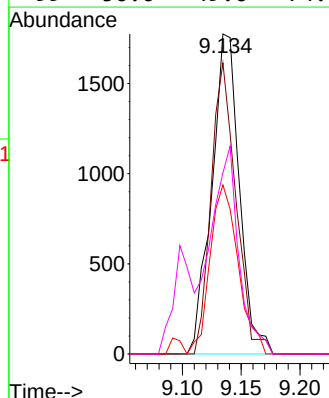
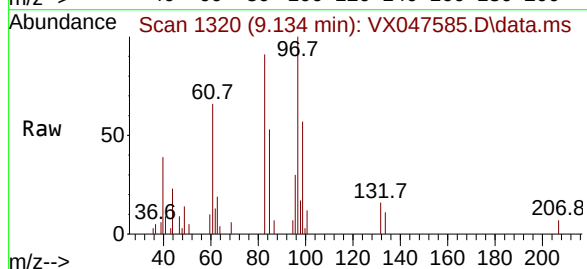
RT: 9.134 min Scan# 1320

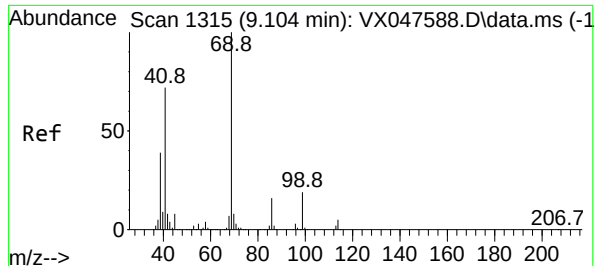
Delta R.T. -0.000 min

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 :

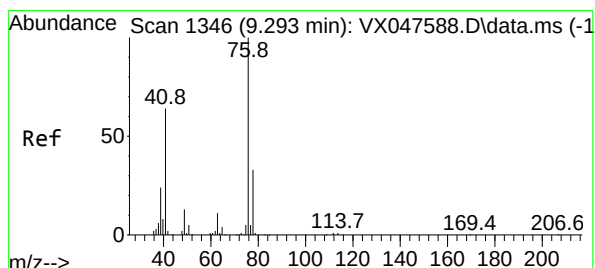
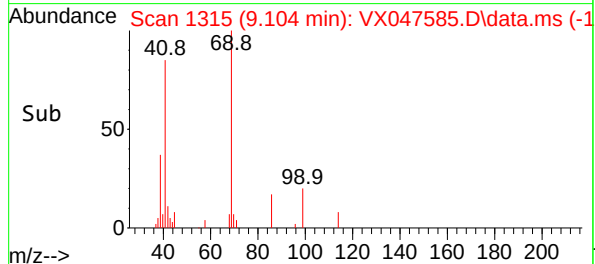
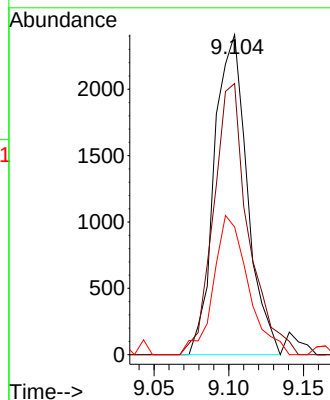
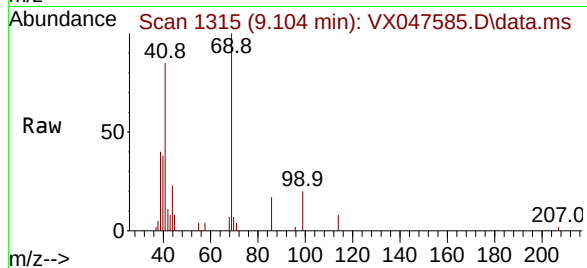
VSTDICC001

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

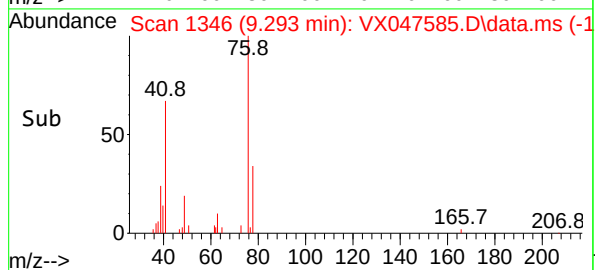
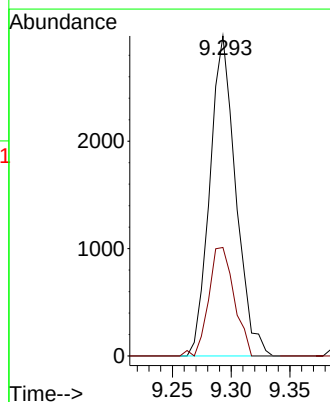
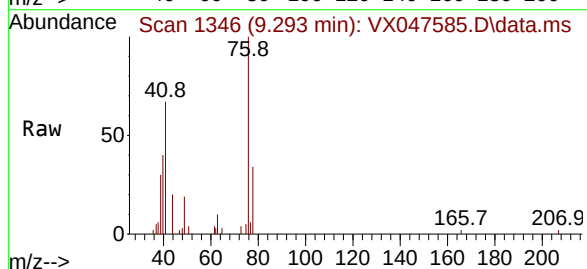
RT: 9.293 min Scan# 1346

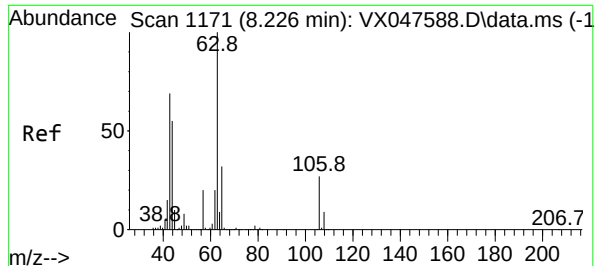
Delta R.T. -0.000 min

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

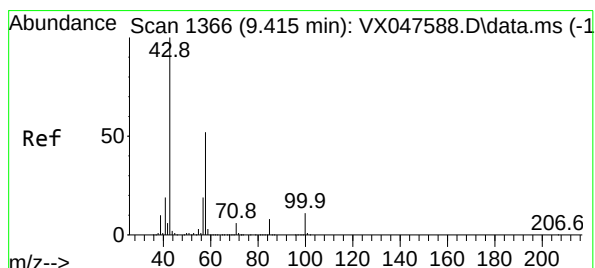
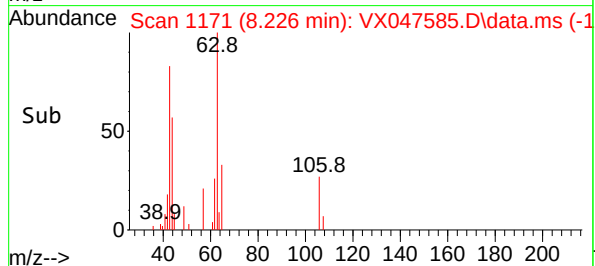
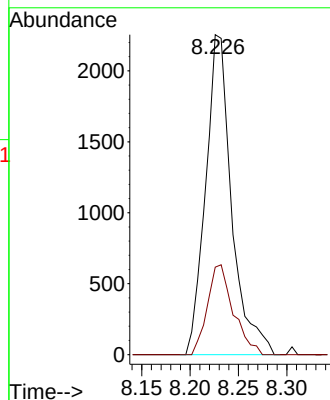
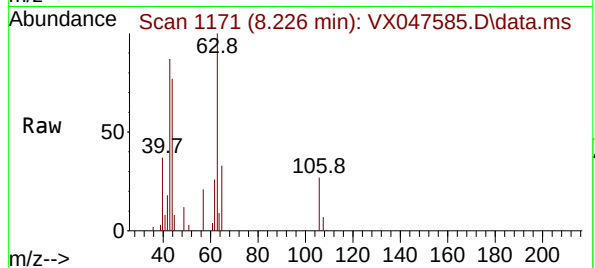
106 27.9 21.9 32.9

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

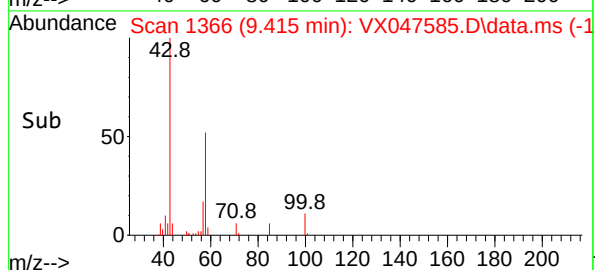
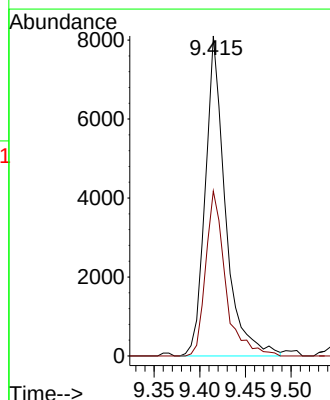
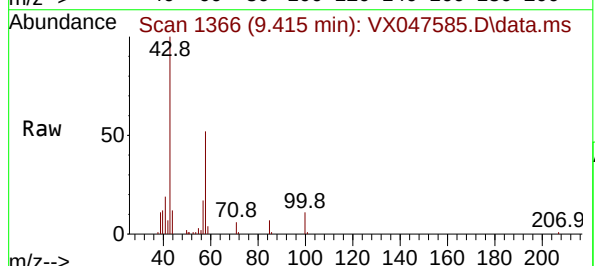
Acq: 16 Sep 2025 09:23

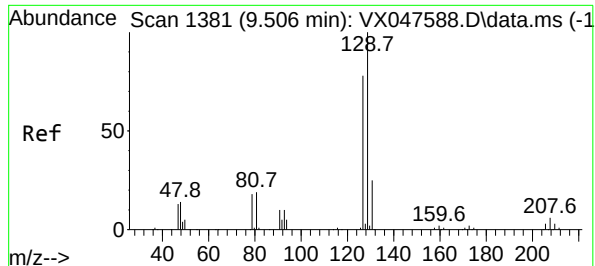
Tgt Ion: 43 Resp: 12385

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

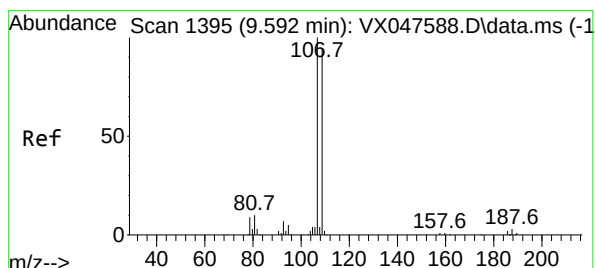
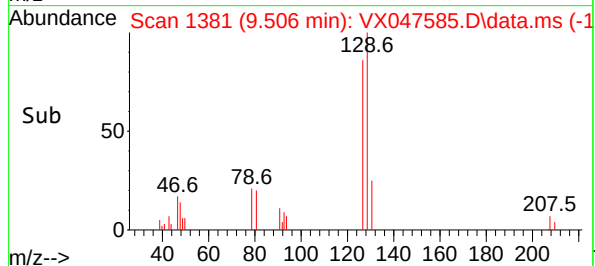
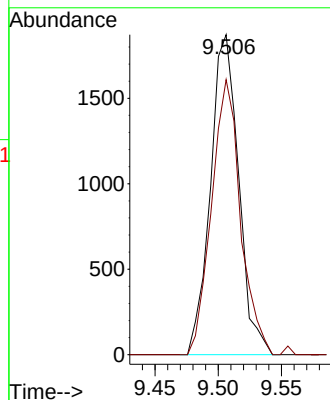
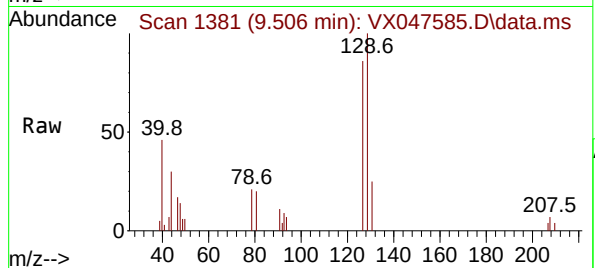
127 88.2 38.4 115.2

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

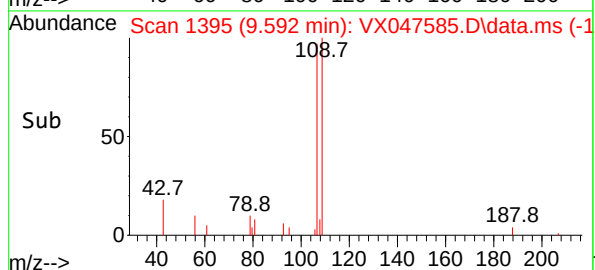
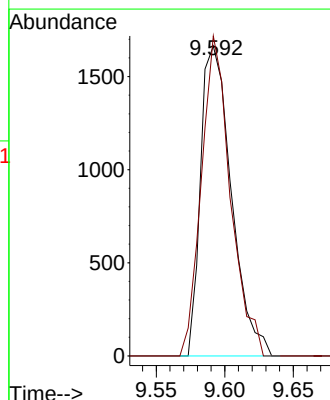
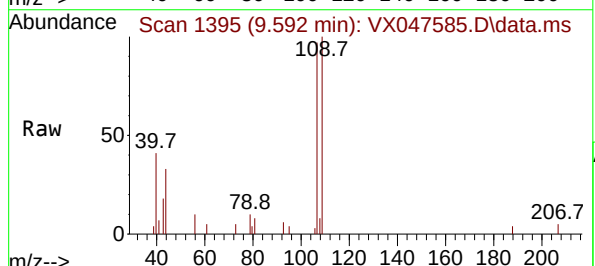
Acq: 16 Sep 2025 09:23

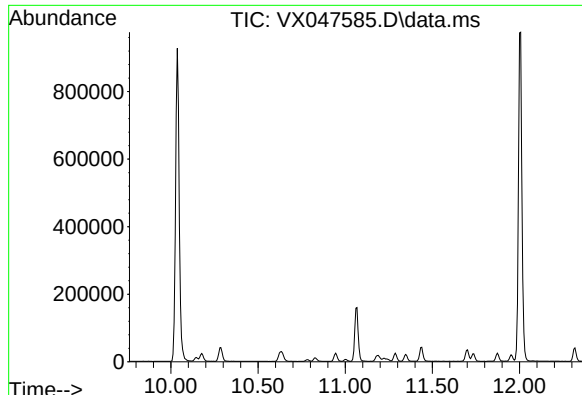
Tgt Ion:107 Resp: 2596

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

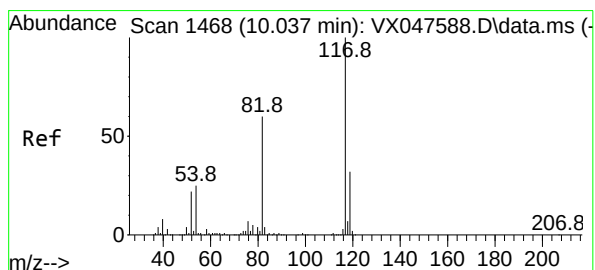
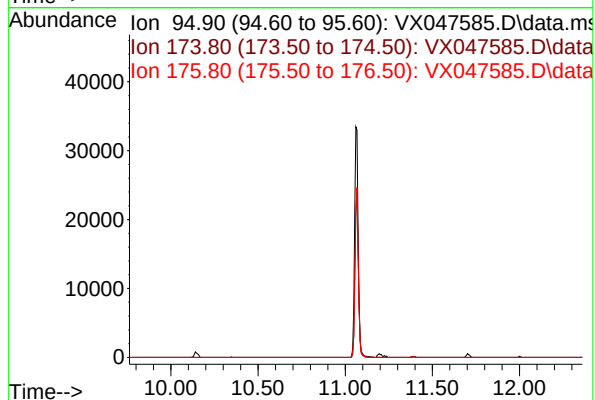
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

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

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

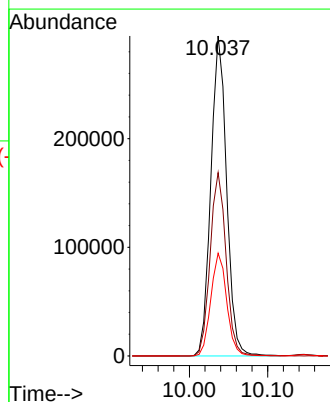
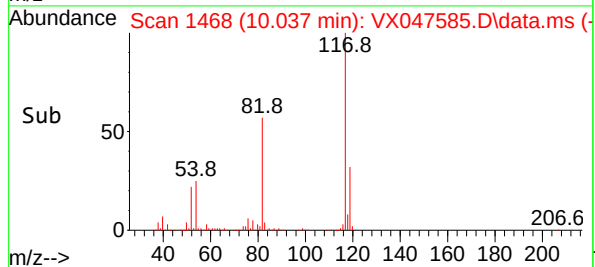
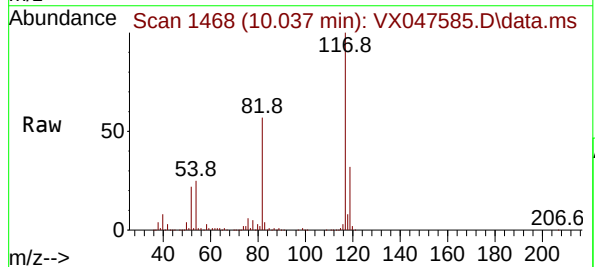
Manual Integrations
APPROVED

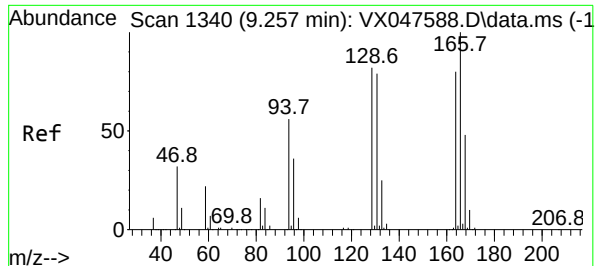
Reviewed By : John Carlone 09/17/2025
Supervised By : Mahesh Dadoda 09/18/2025



#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

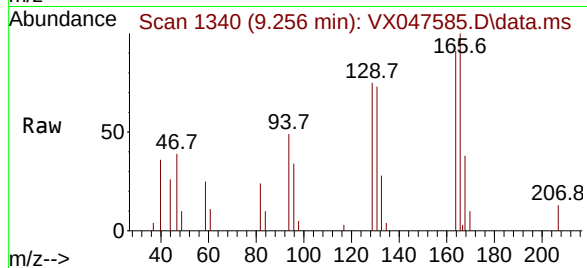
Tgt Ion: 117 Resp: 410953
Ion Ratio Lower Upper
117 100
82 57.3 47.8 71.6
119 32.1 25.2 37.8





#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

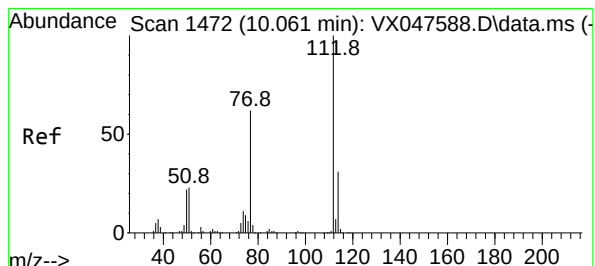
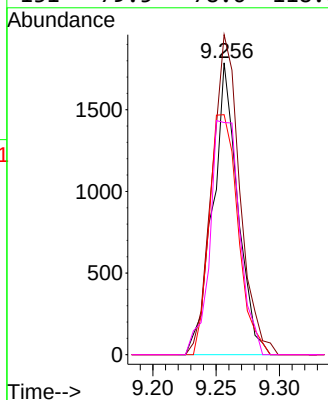
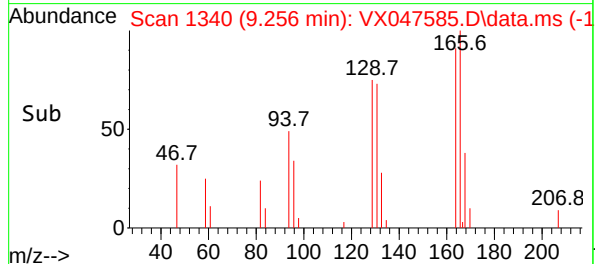
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



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

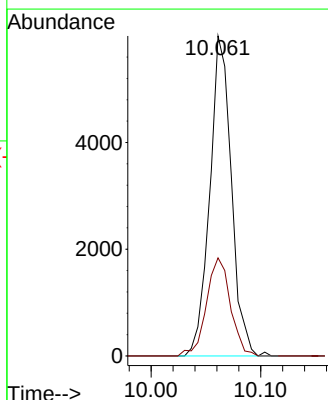
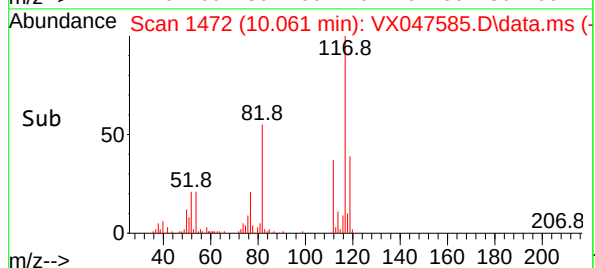
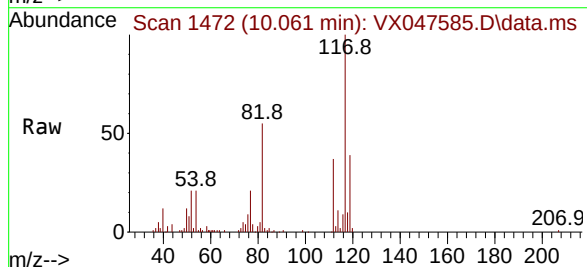
Manual Integrations
APPROVED

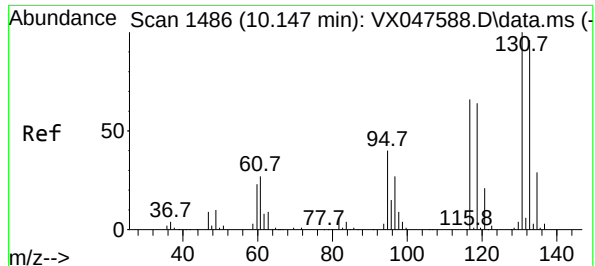
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





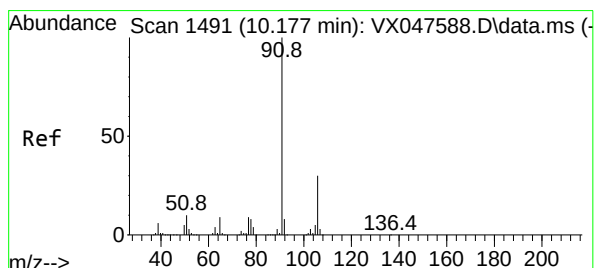
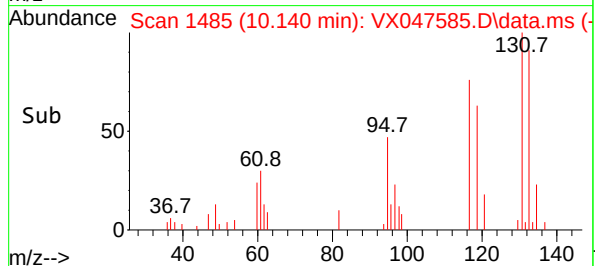
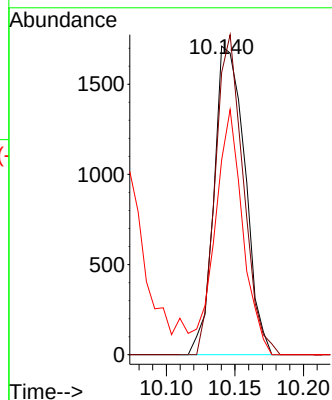
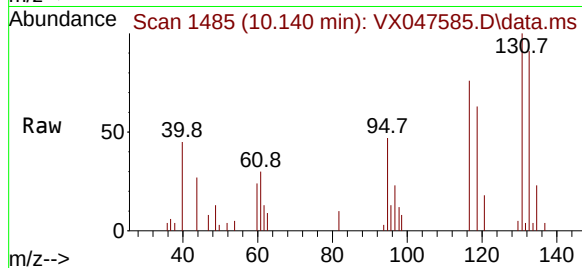
#66
1,1,1,2-Tetrachloroethane
Concen: 0.833 ug/l
RT: 10.140 min Scan# 1485
Delta R.T. -0.006 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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

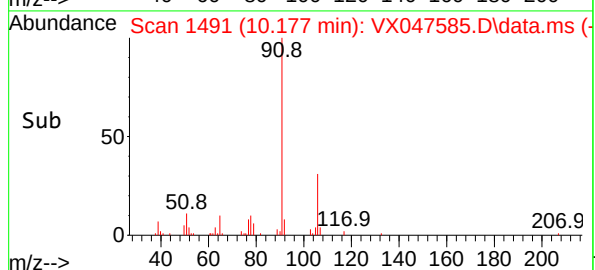
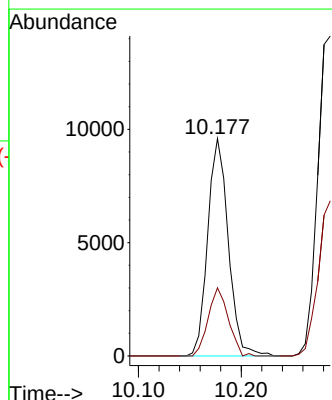
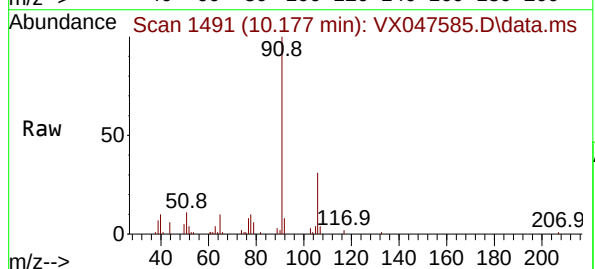
Manual Integrations
APPROVED

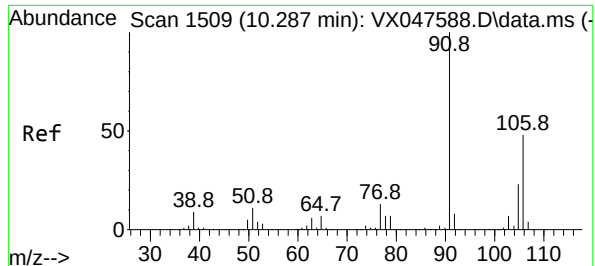
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





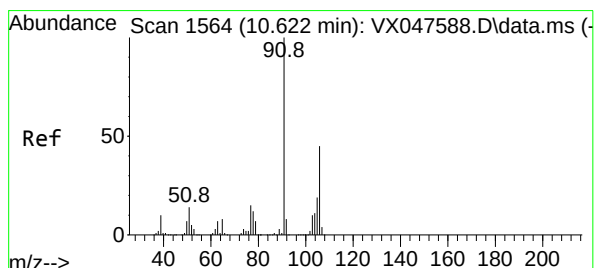
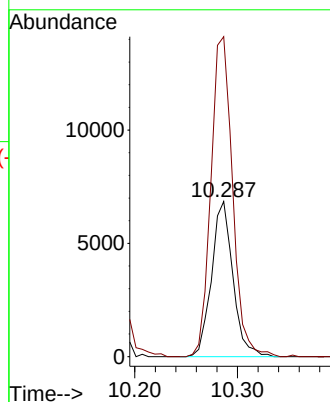
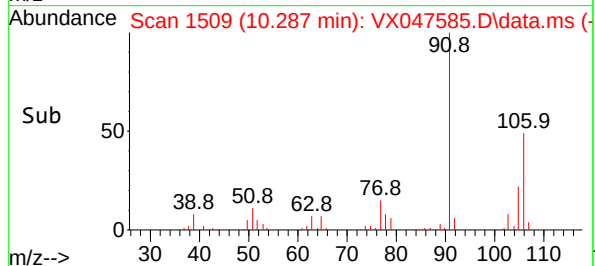
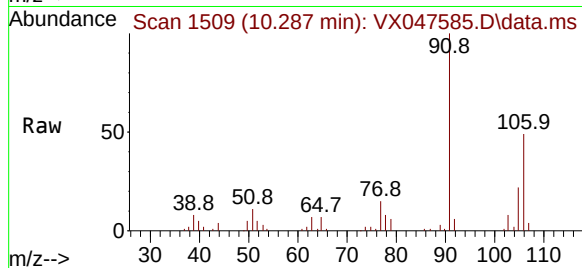
#68
m/p-Xylenes
Concen: 1.655 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

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

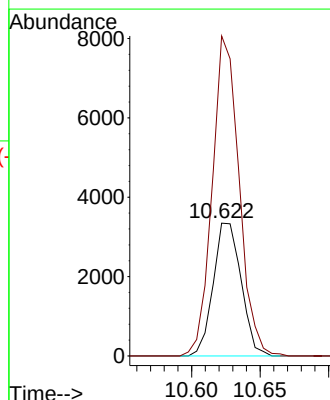
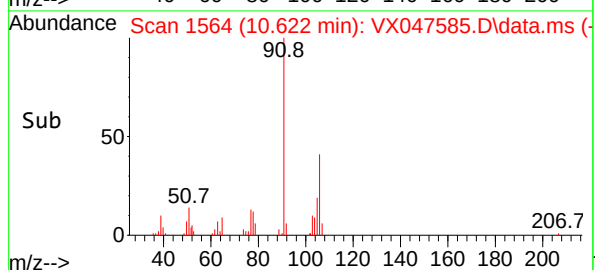
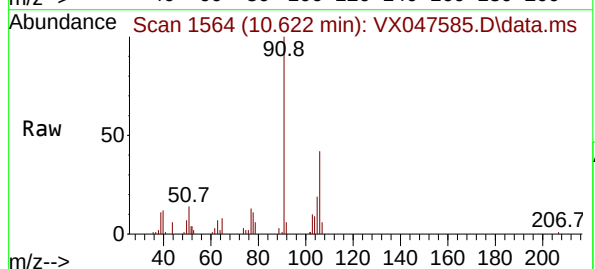
Manual Integrations
APPROVED

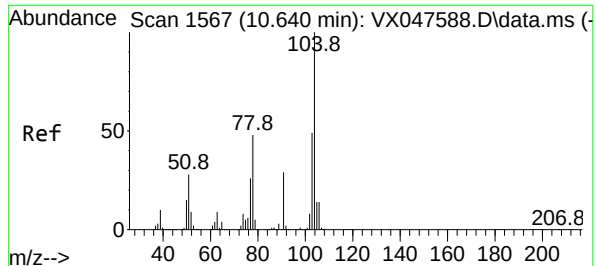
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

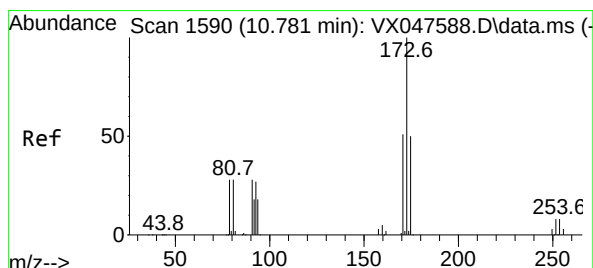
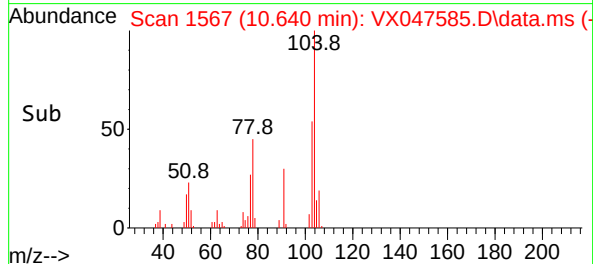
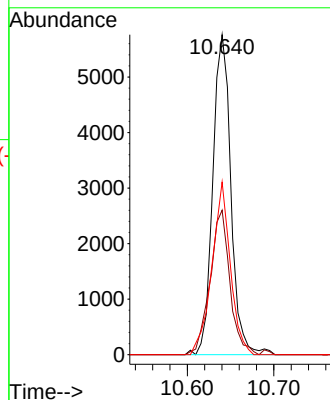
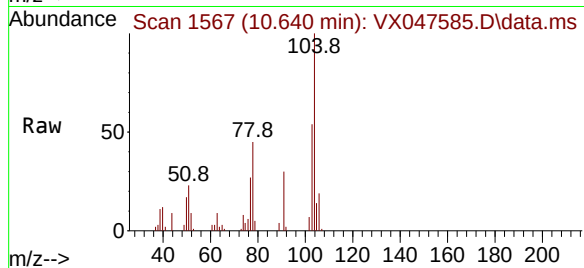
VSTDIC001

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

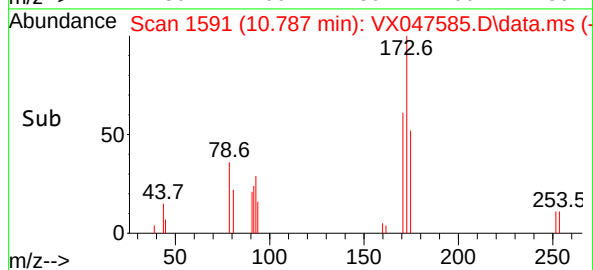
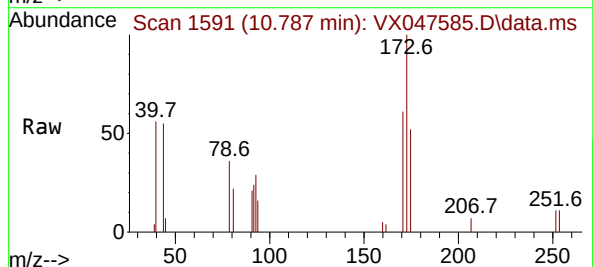
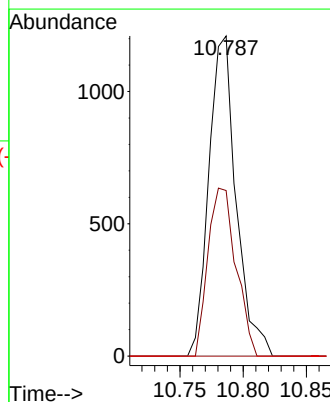
RT: 10.787 min Scan# 1591

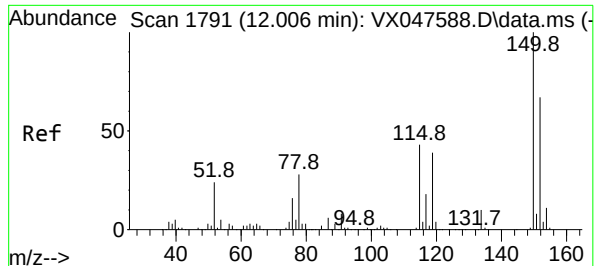
Delta R.T. 0.006 min

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# 1

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

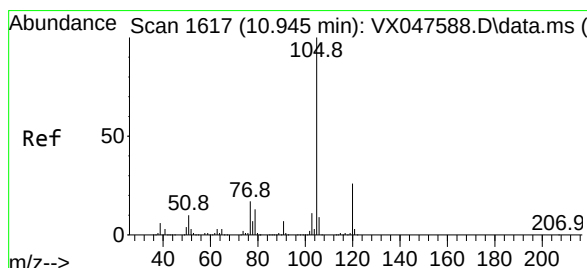
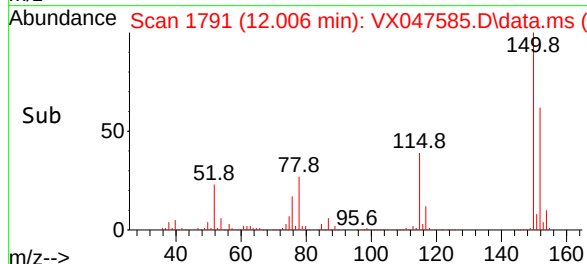
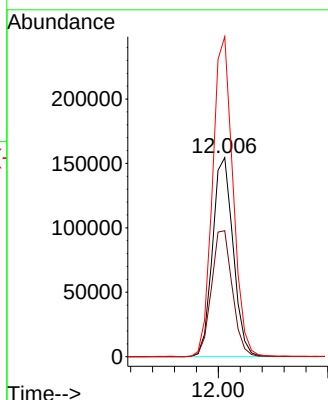
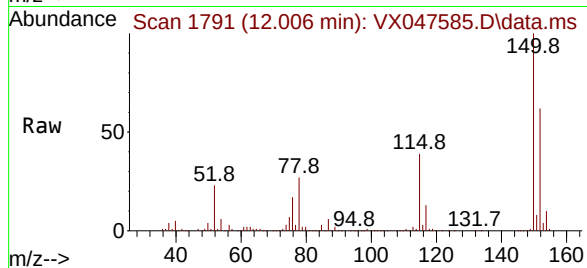
150 158.7 0.0 352.0

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

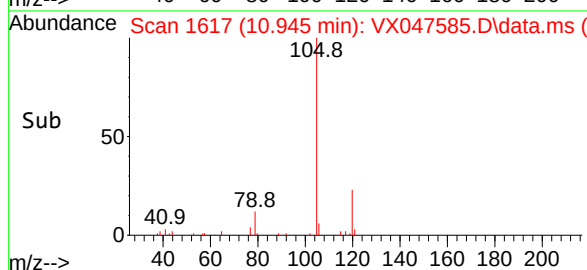
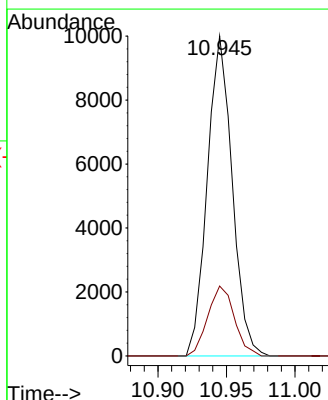
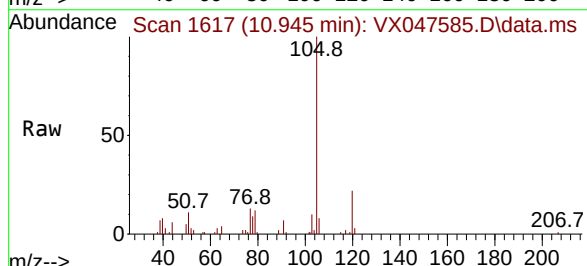
Acq: 16 Sep 2025 09:23

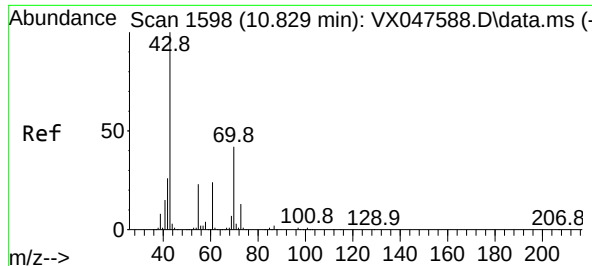
Tgt Ion:105 Resp: 12618

Ion Ratio Lower Upper

105 100

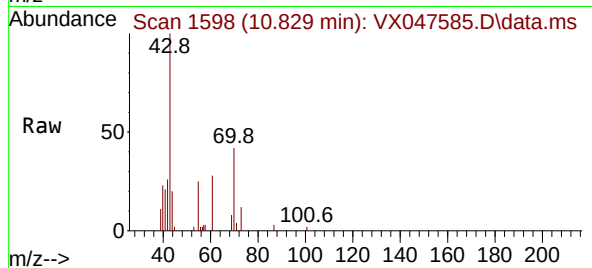
120 23.4 12.8 38.4





#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

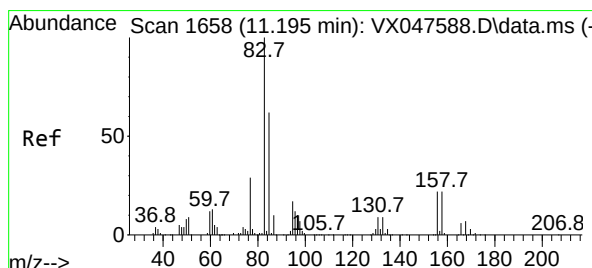
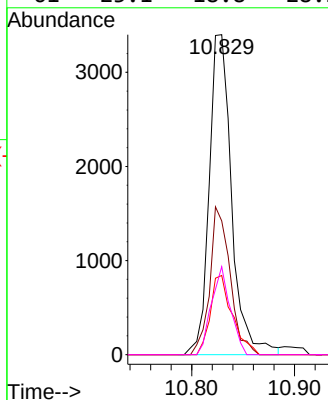
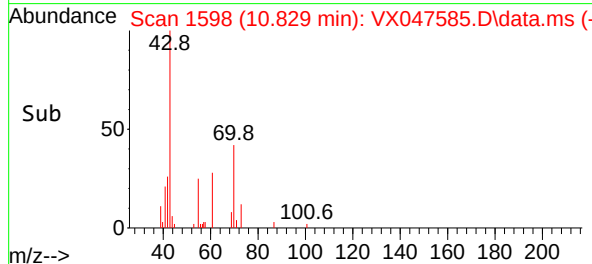
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



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

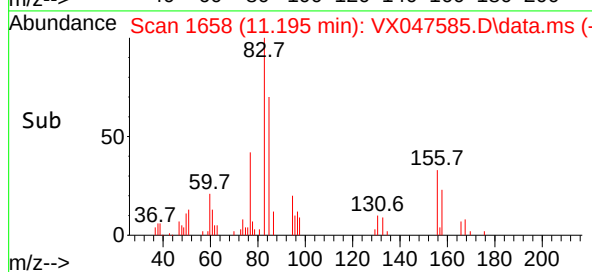
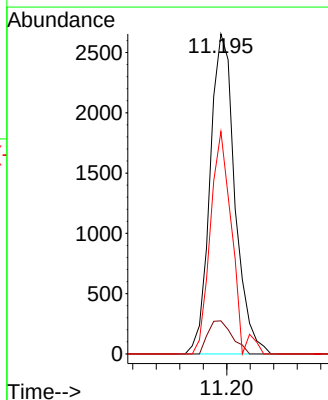
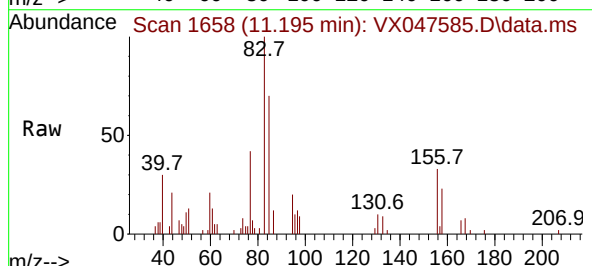
Manual Integrations
APPROVED

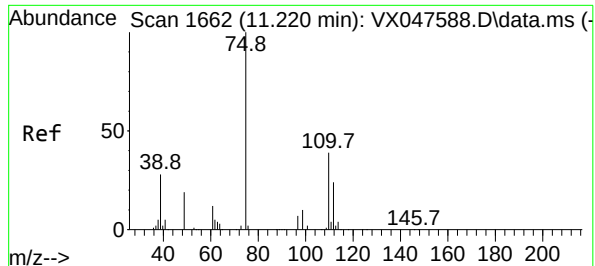
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

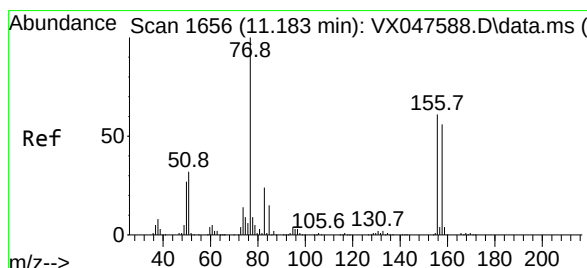
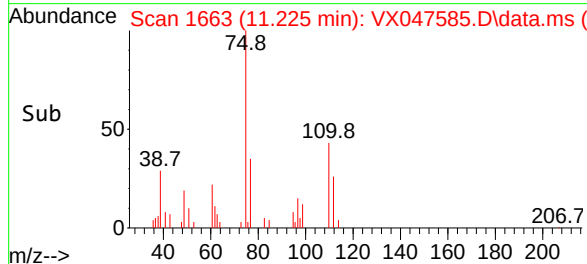
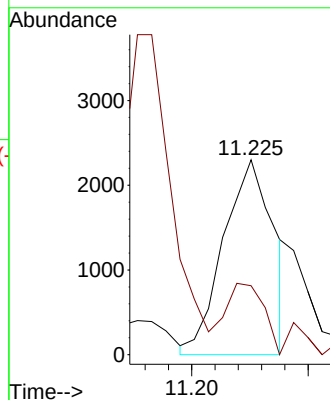
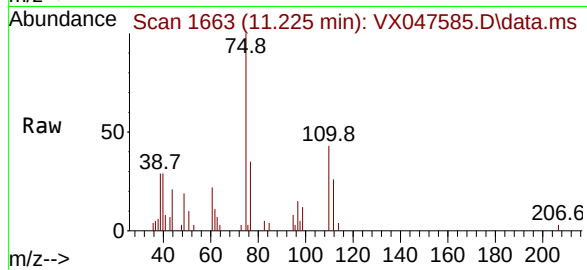
77 34.6 18.8 56.4

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

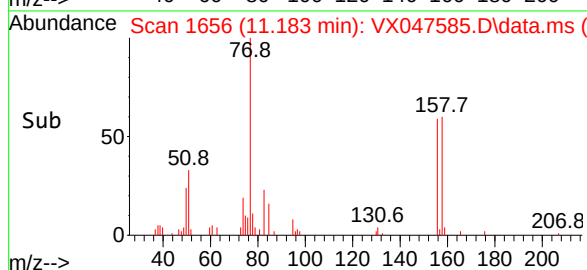
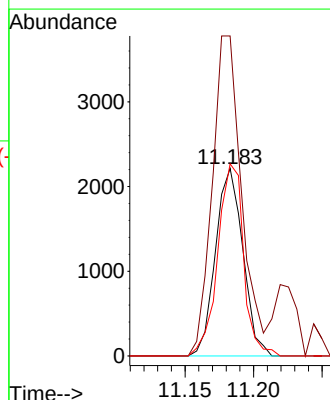
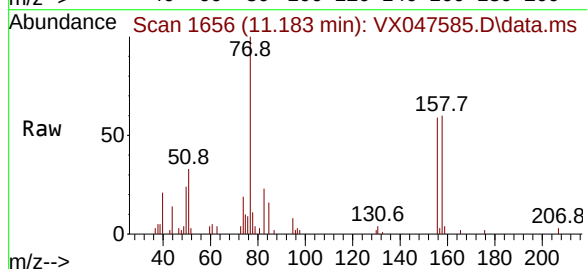
Tgt Ion:156 Resp: 3069

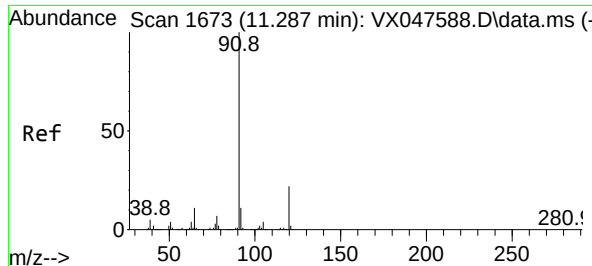
Ion Ratio Lower Upper

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

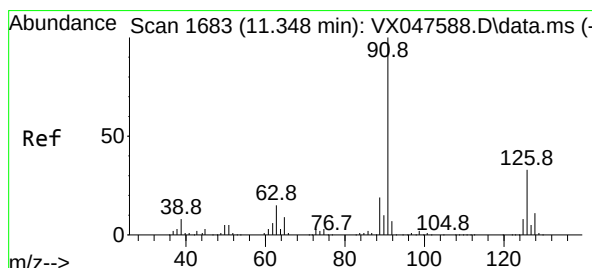
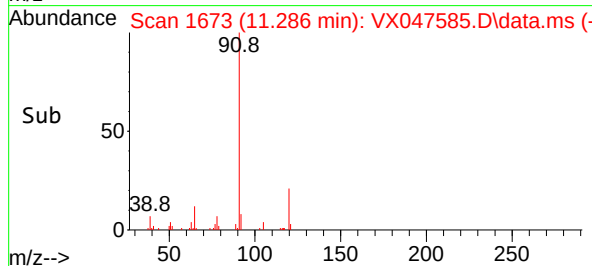
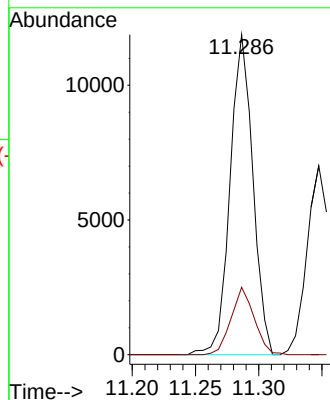
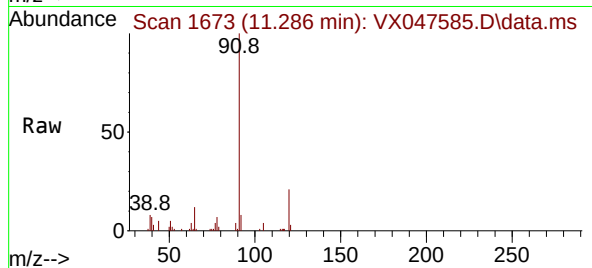
120 21.4 11.1 33.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

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#79

2-Chlorotoluene

Concen: 0.827 ug/l

RT: 11.347 min Scan# 1683

Delta R.T. -0.000 min

Lab File: VX047585.D

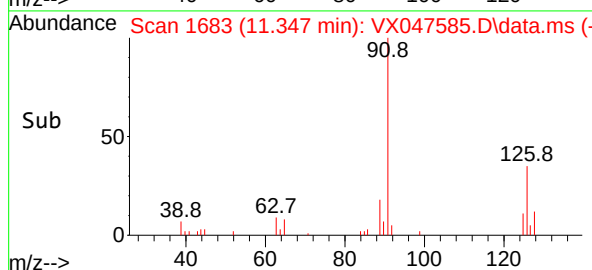
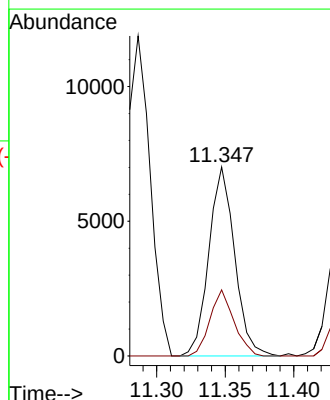
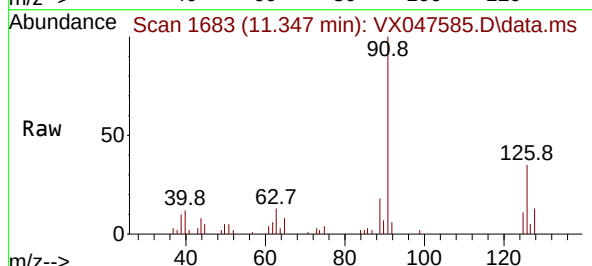
Acq: 16 Sep 2025 09:23

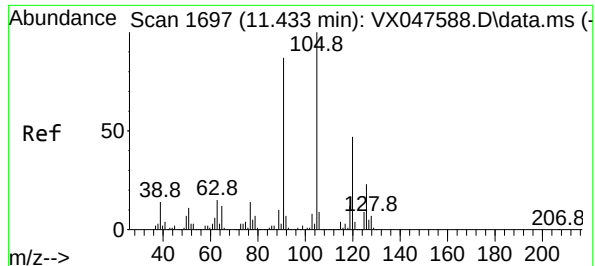
Tgt Ion: 91 Resp: 9195

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

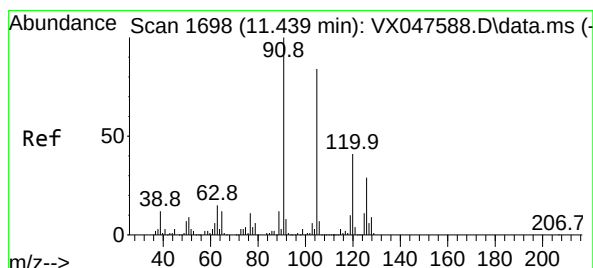
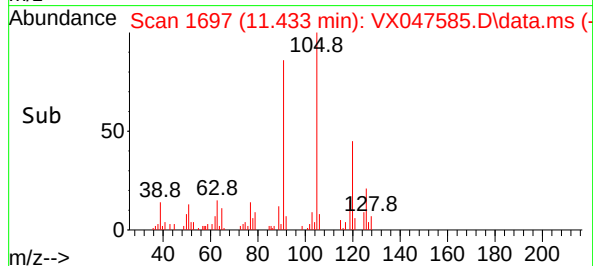
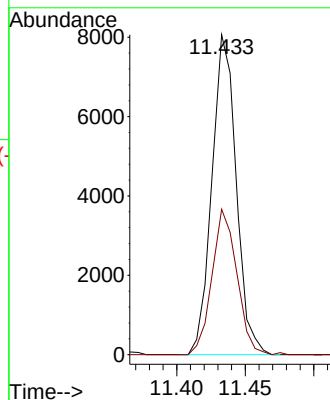
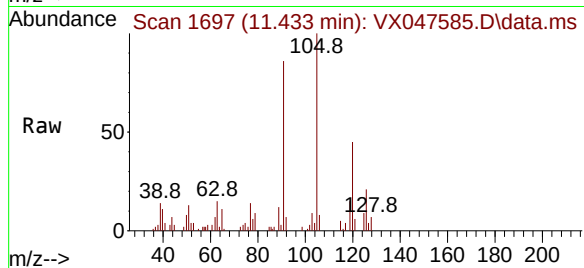
120 46.7 23.6 70.8

Manual Integrations

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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

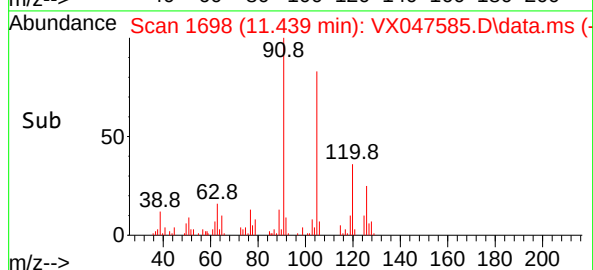
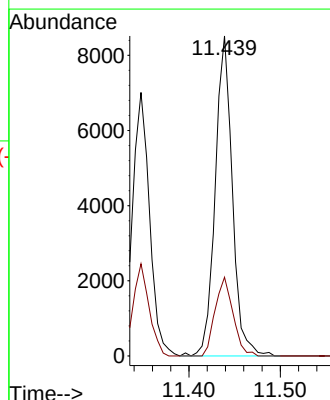
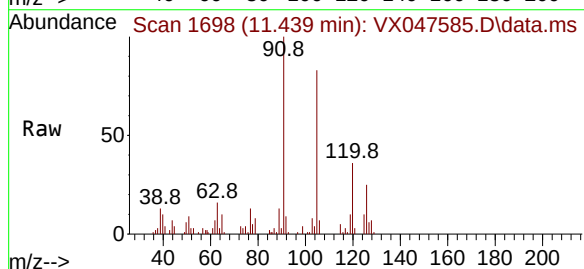
Acq: 16 Sep 2025 09:23

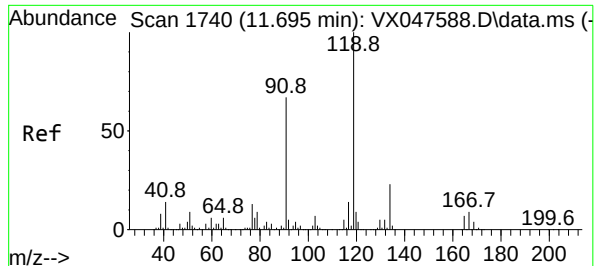
Tgt Ion: 91 Resp: 11123

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 :

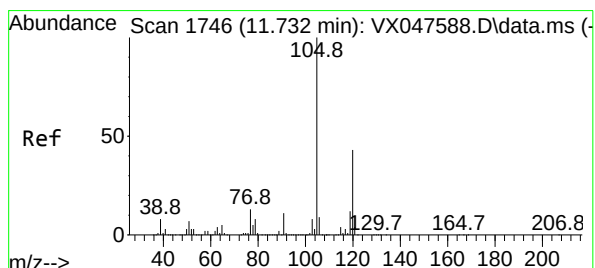
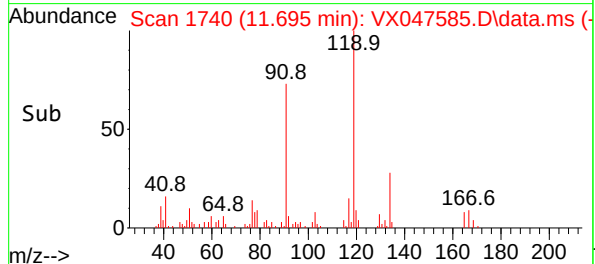
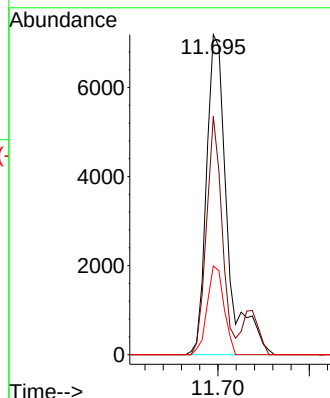
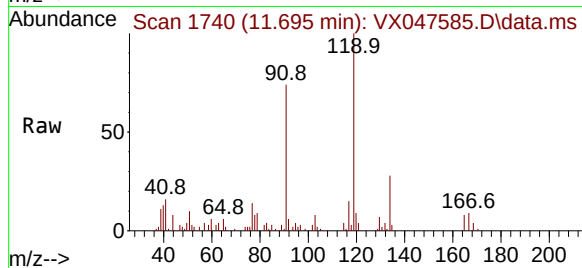
VSTDIC001

Tgt Ion:	119	Resp:	1131
Ion Ratio	Lower	Upper	
119	100		
91	56.1	29.6	88.8
134	22.5	11.0	33.0

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

Supervised By :Mahesh Dadoda 09/18/2025



#84

1,2,4-Trimethylbenzene

Concen: 0.796 ug/l

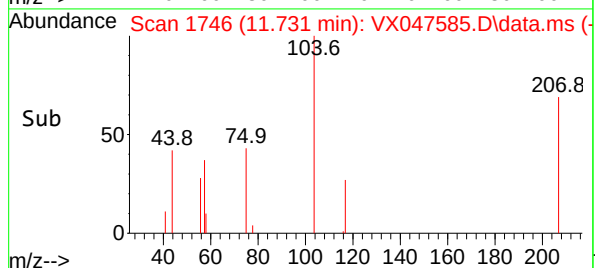
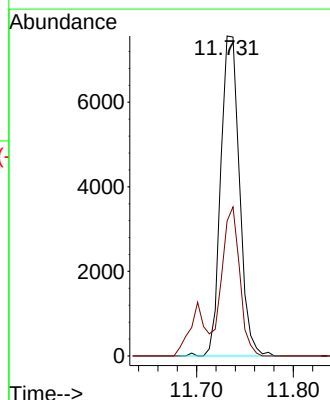
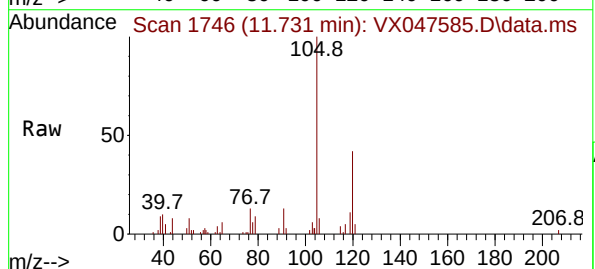
RT: 11.731 min Scan# 1746

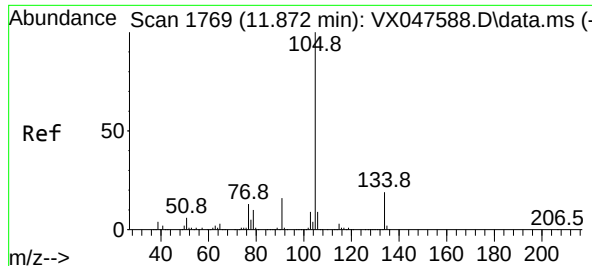
Delta R.T. -0.000 min

Lab File: VX047585.D

Acq: 16 Sep 2025 09:23

Tgt Ion:	105	Resp:	10187
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 :

VSTDICC001

Tgt Ion:105 Resp: 1256

Ion Ratio Lower Upper

105 100

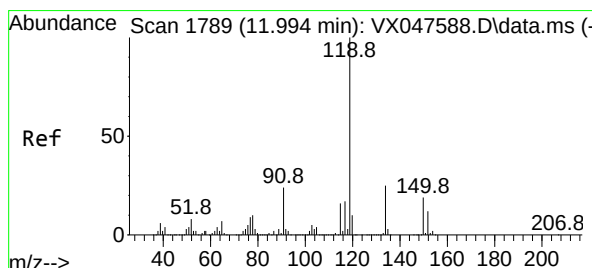
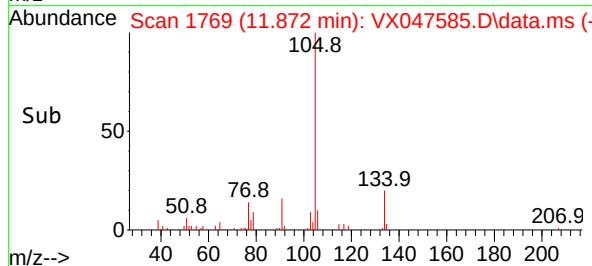
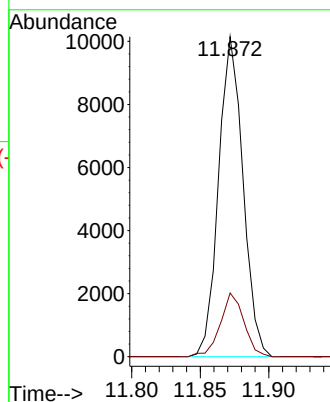
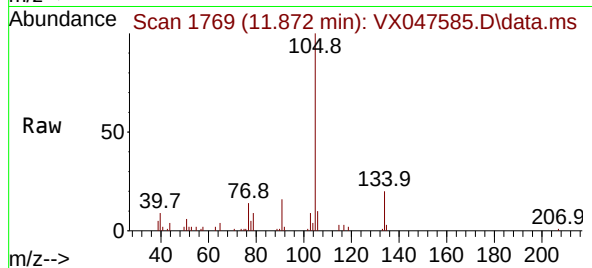
134 19.3 9.8 29.5

Manual Integrations

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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#86

p-Isopropyltoluene

Concen: 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

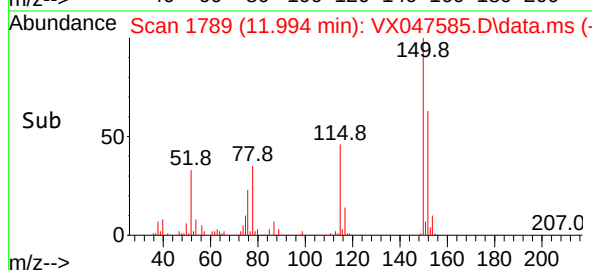
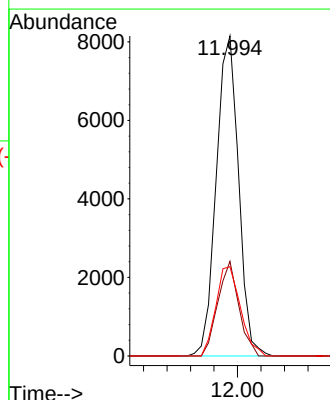
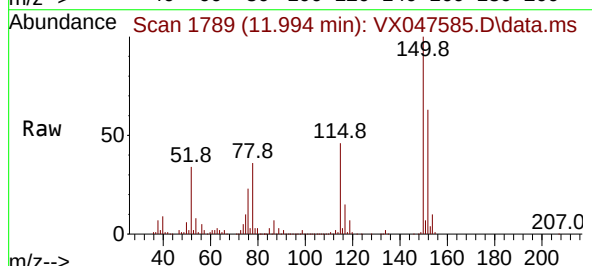
Tgt Ion:119 Resp: 10744

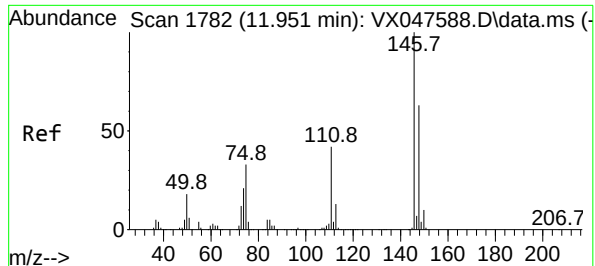
Ion Ratio Lower Upper

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

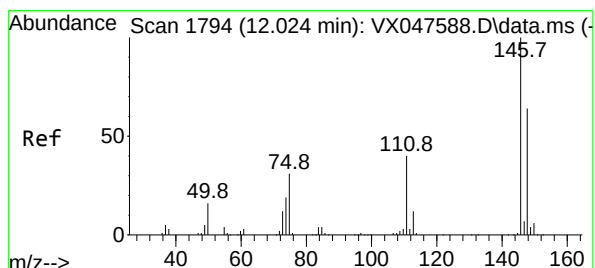
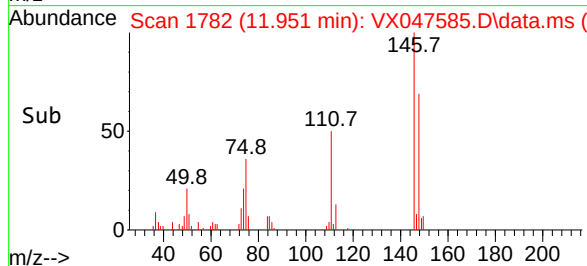
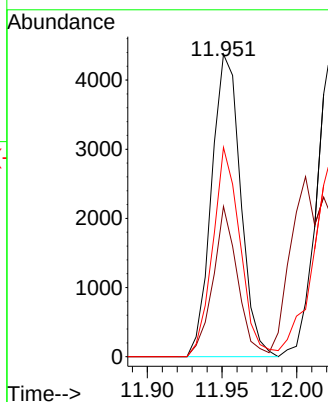
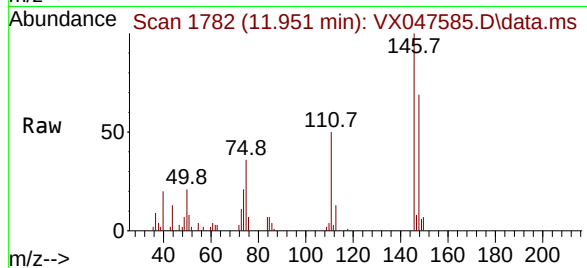
Tgt Ion:	146	Resp:	590
Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.5	64.5
148	65.5	32.0	96.0

Manual Integrations

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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#88

1,4-Dichlorobenzene

Concen: 0.880 ug/l m

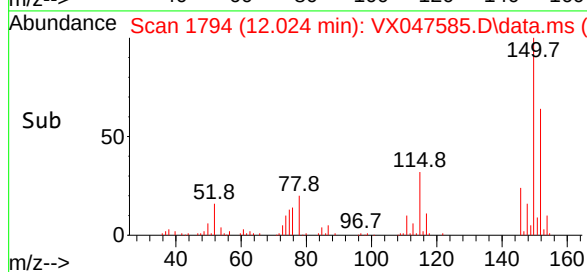
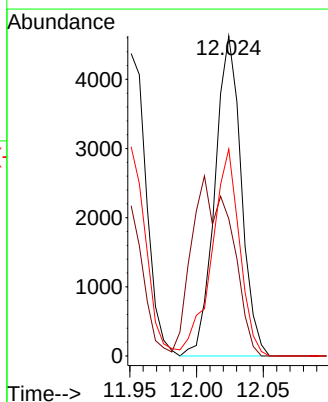
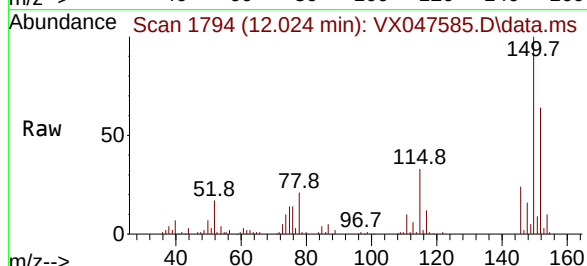
RT: 12.024 min Scan# 1794

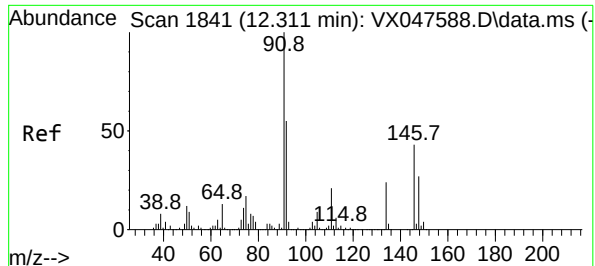
Delta R.T. -0.000 min

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 :

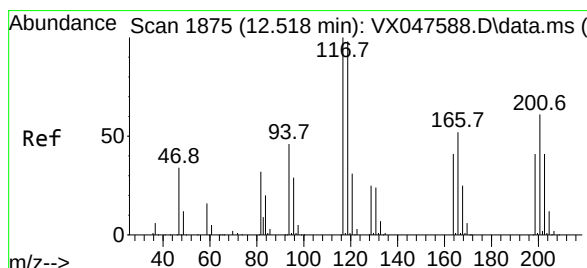
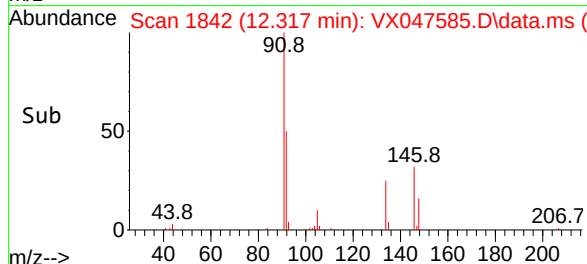
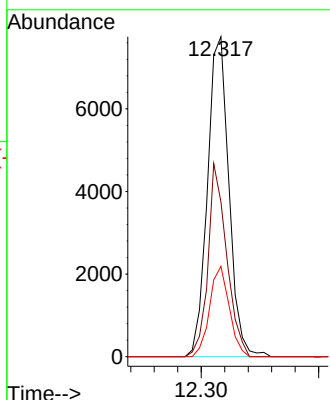
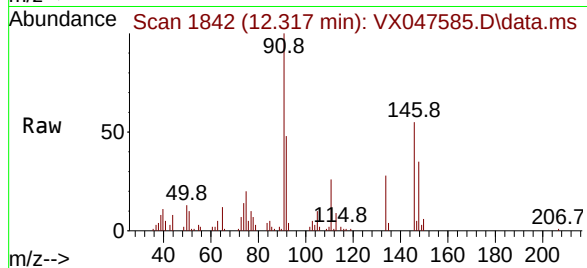
VSTDIC001

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
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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#90

Hexachloroethane

Concen: 0.768 ug/l

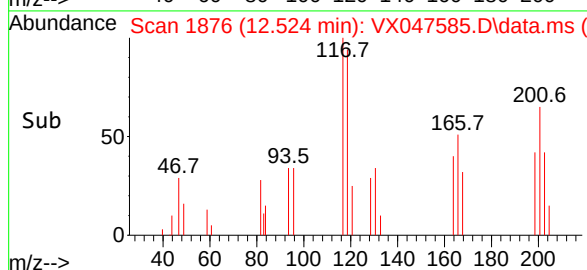
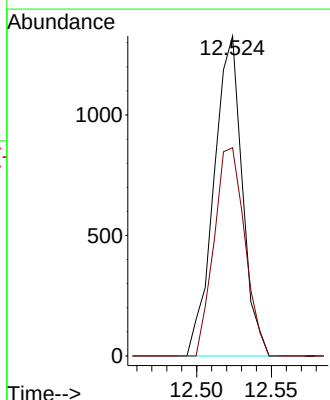
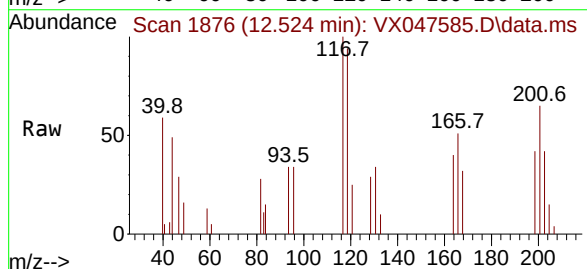
RT: 12.524 min Scan# 1876

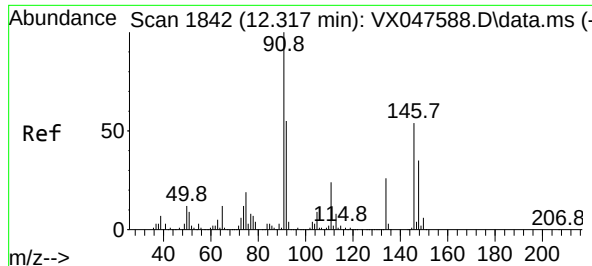
Delta R.T. 0.006 min

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





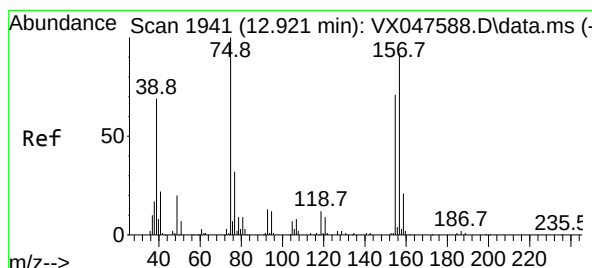
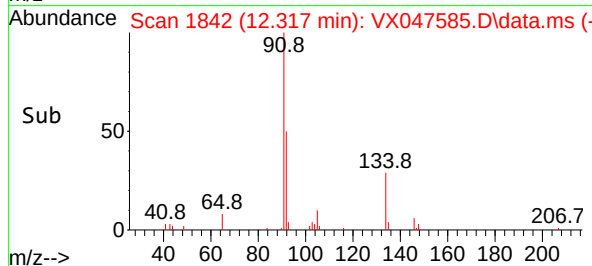
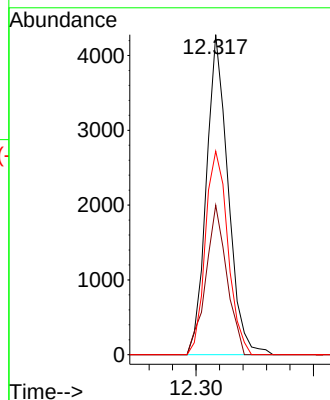
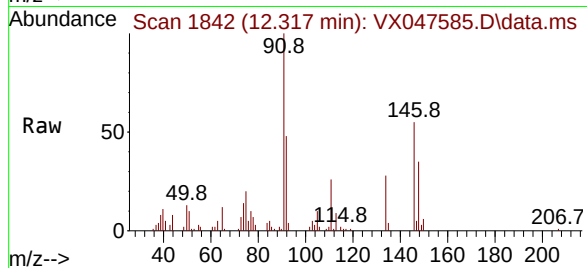
#91
1,2-Dichlorobenzene
Concen: 0.820 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047585.D
Acq: 16 Sep 2025 09:23

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

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

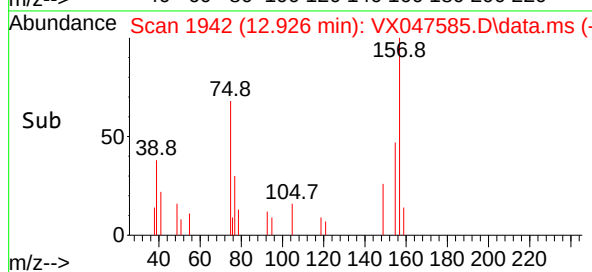
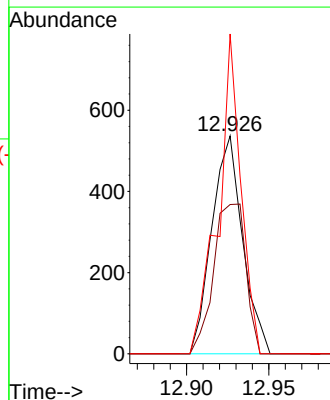
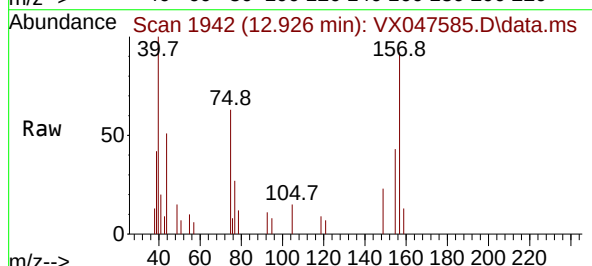
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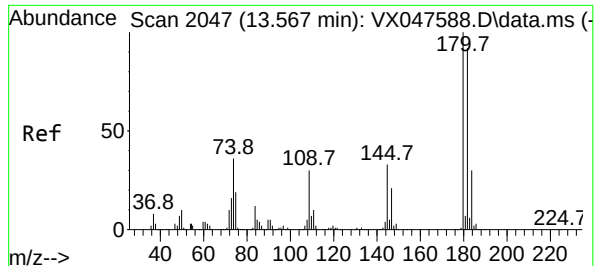
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 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	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

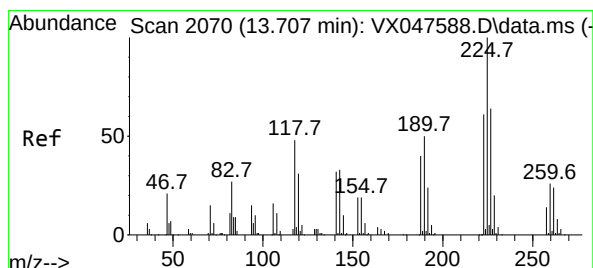
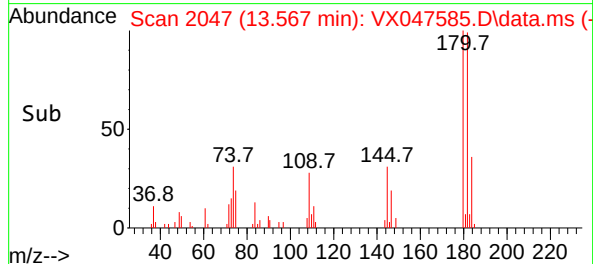
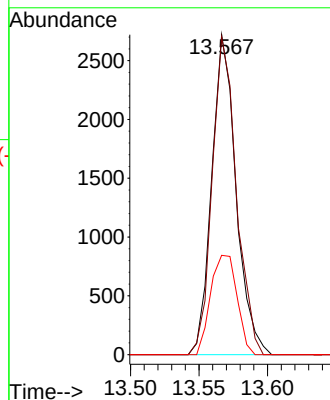
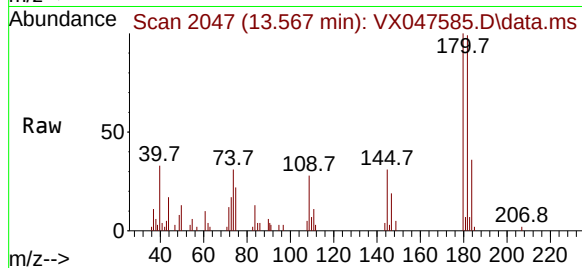
Tgt Ion:	180	Resp:	335
Ion	Ratio	Lower	Upper
180	100		
182	98.6	46.6	139.8
145	33.7	16.4	49.1

Manual Integrations

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#94

Hexachlorobutadiene

Concen: 0.933 ug/l

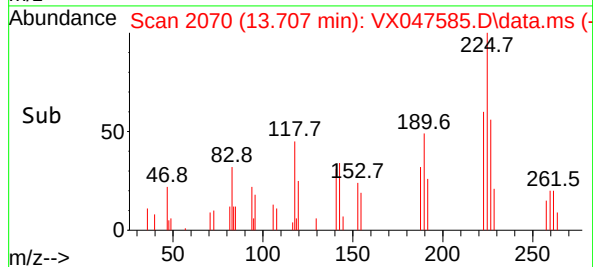
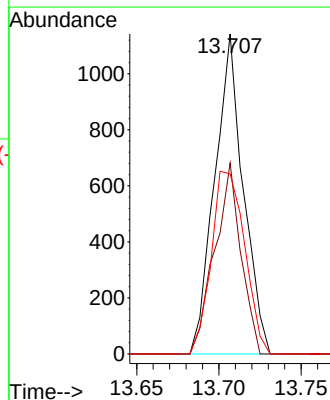
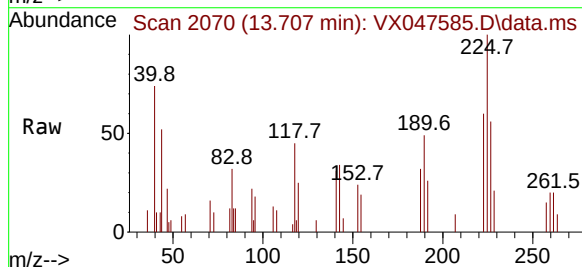
RT: 13.707 min Scan# 2070

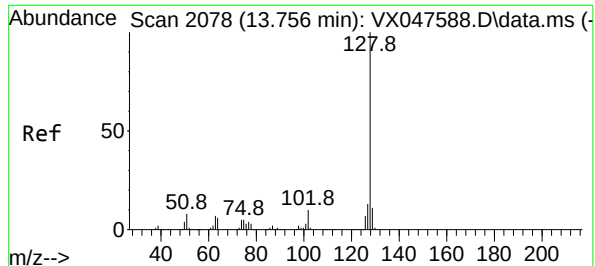
Delta R.T. -0.000 min

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 :

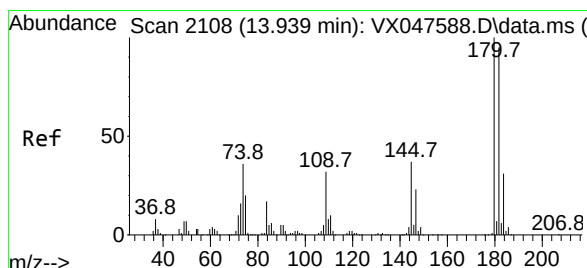
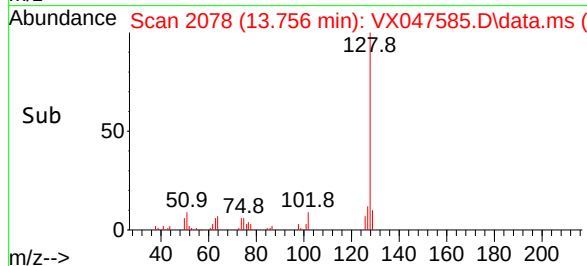
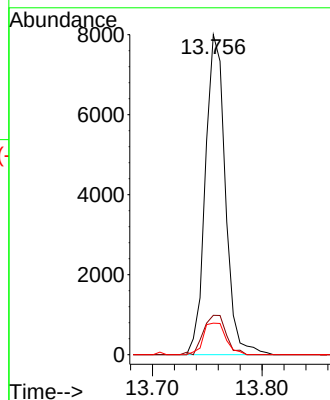
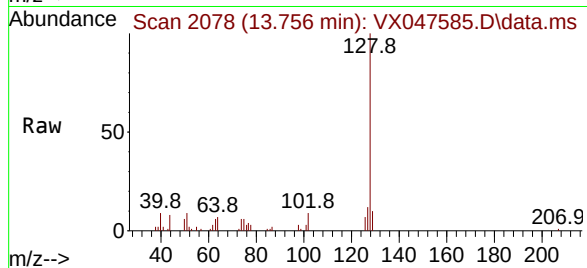
VSTDIC001

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

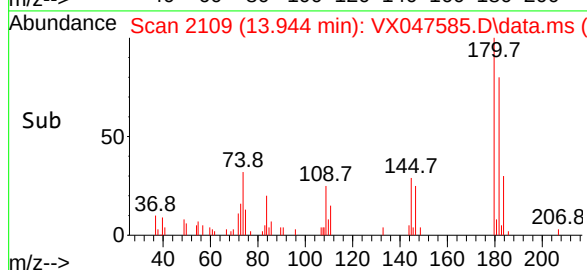
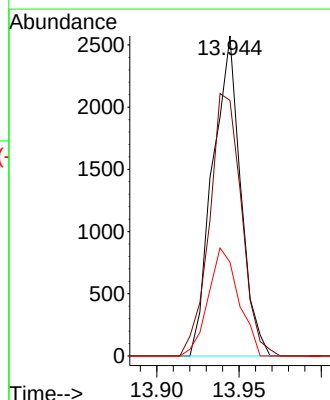
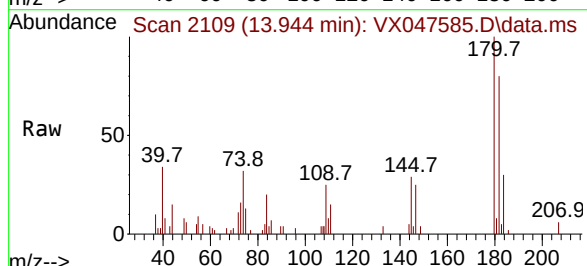
RT: 13.944 min Scan# 2109

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 : 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)
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

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

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

Instrument :

MSVOA_X

ClientSampleId :

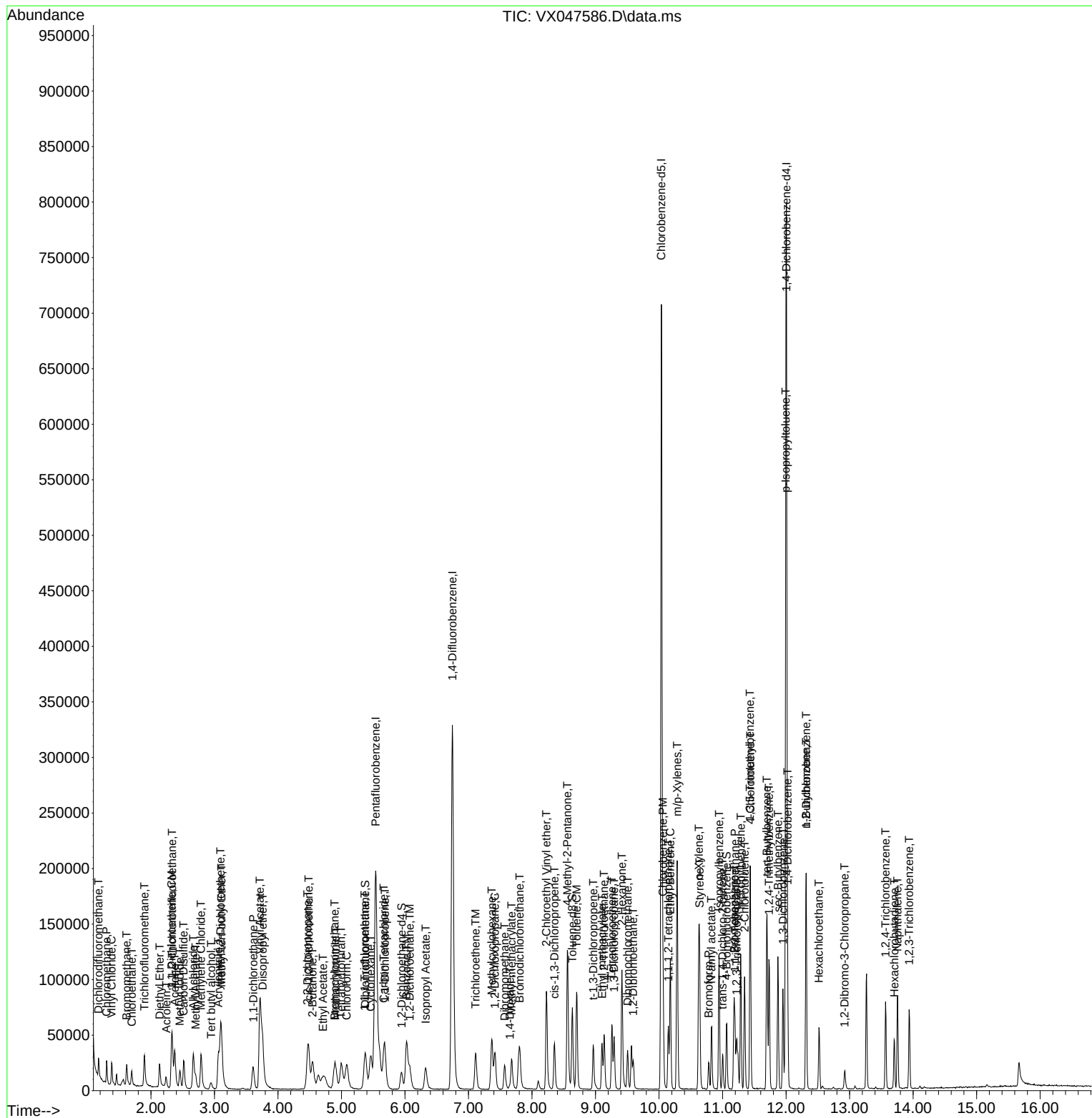
VSTDICC005

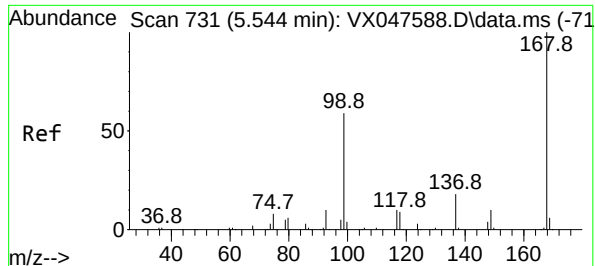
Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025





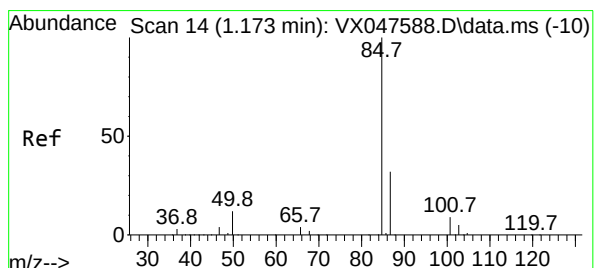
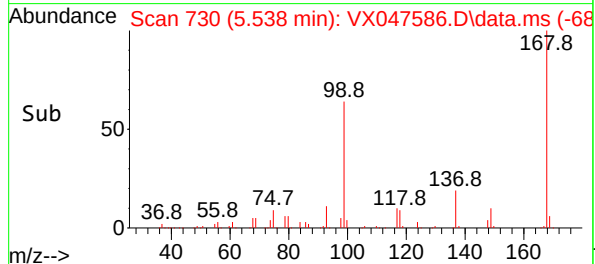
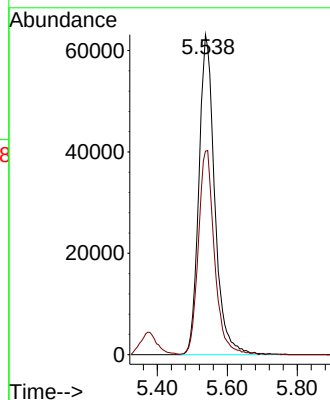
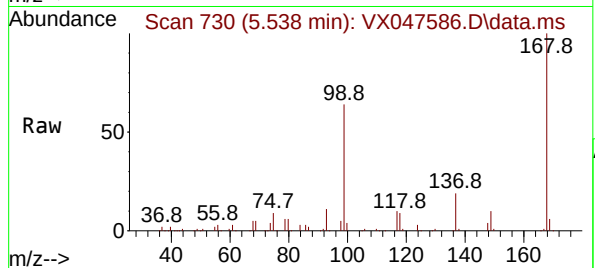
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

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

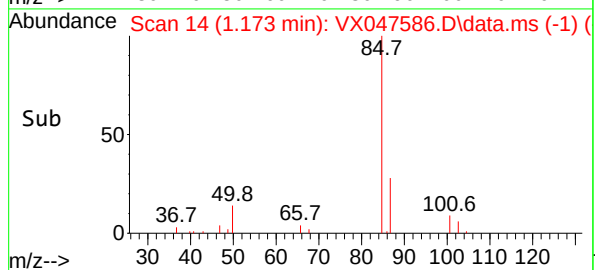
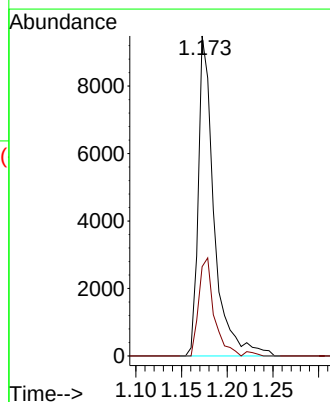
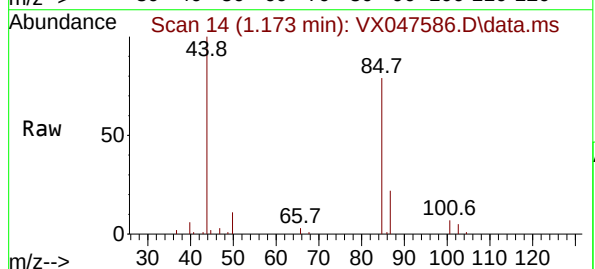
Manual Integrations
APPROVED

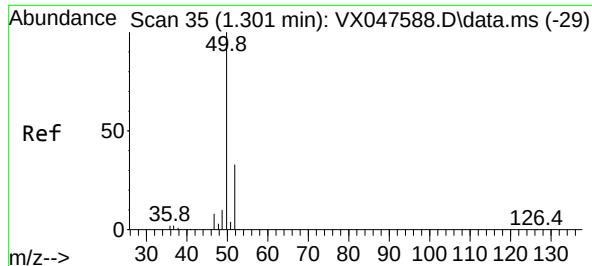
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





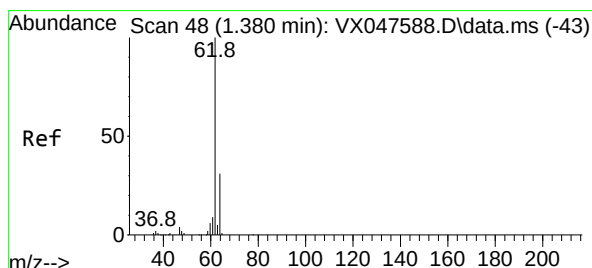
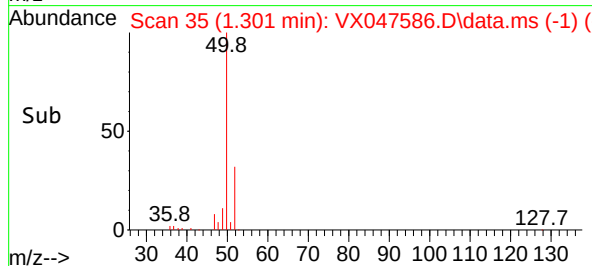
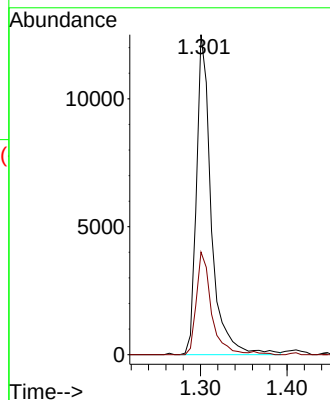
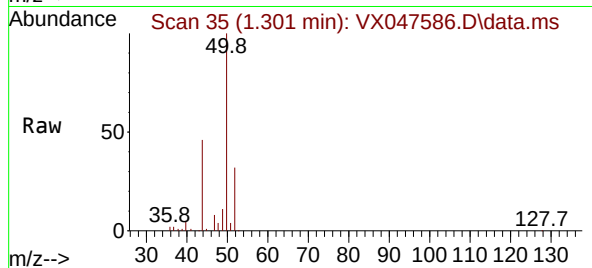
#3
Chloromethane
Concen: 5.502 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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

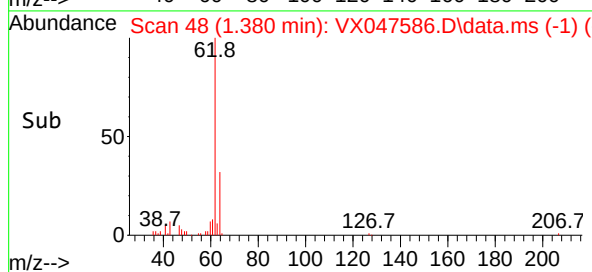
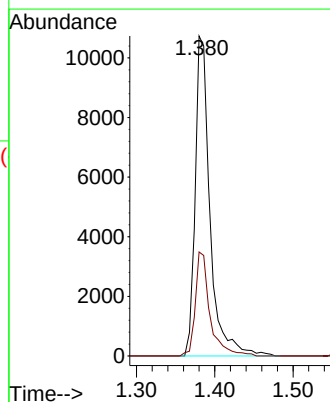
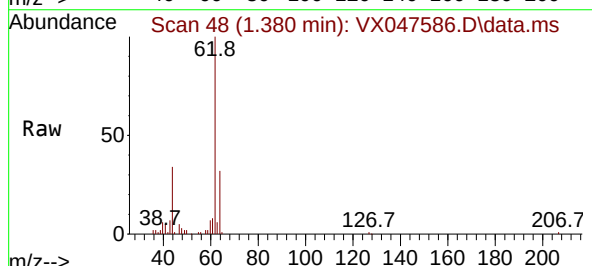
Manual Integrations
APPROVED

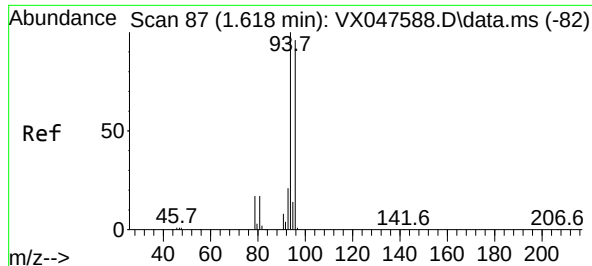
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





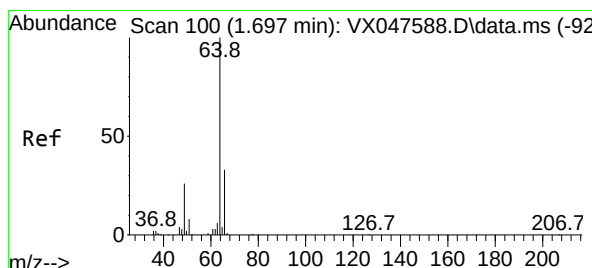
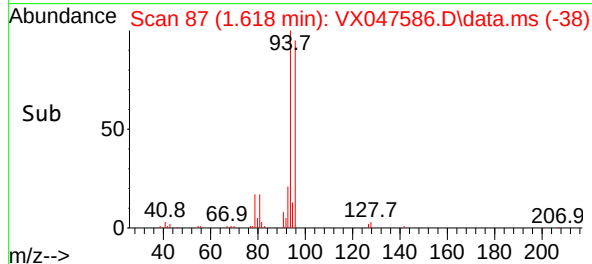
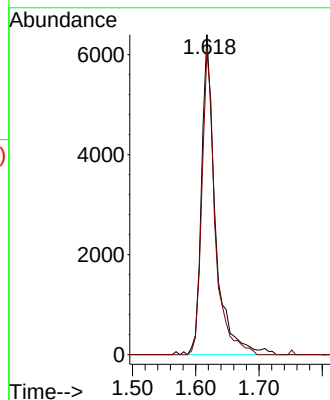
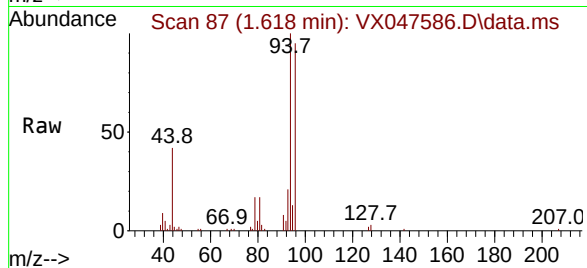
#5
Bromomethane
Concen: 5.836 ug/l
RT: 1.618 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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

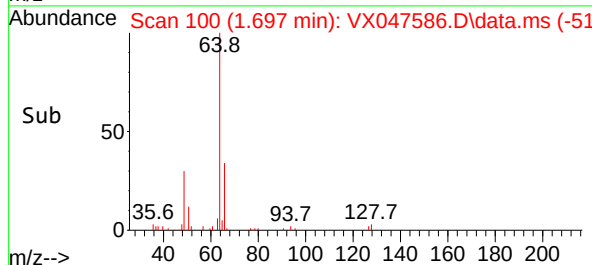
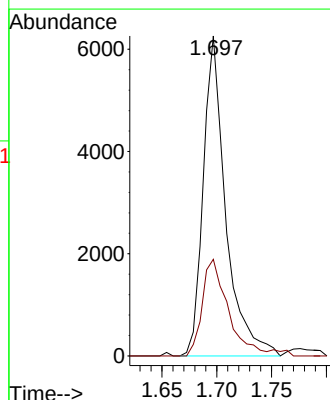
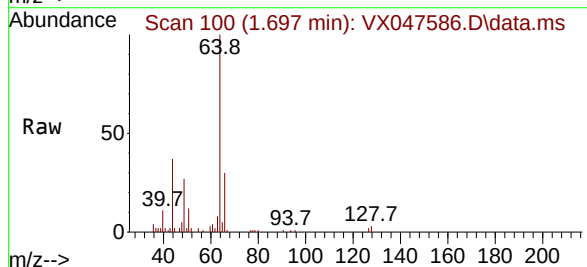
Manual Integrations
APPROVED

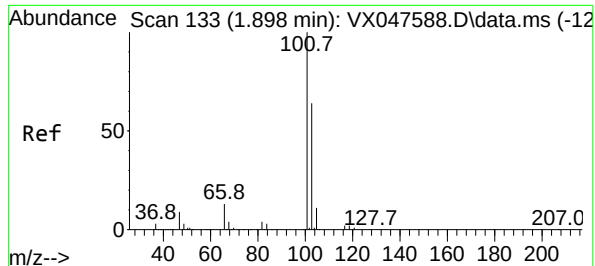
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

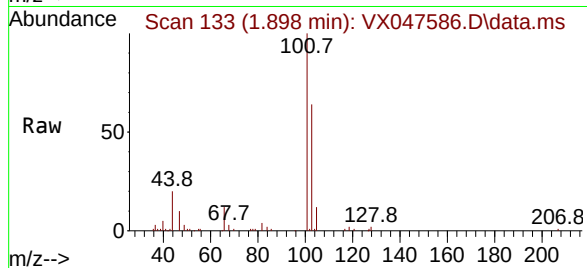
Tgt Ion: 64 Resp: 8926
Ion Ratio Lower Upper
64 100
66 30.2 26.1 39.1





#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

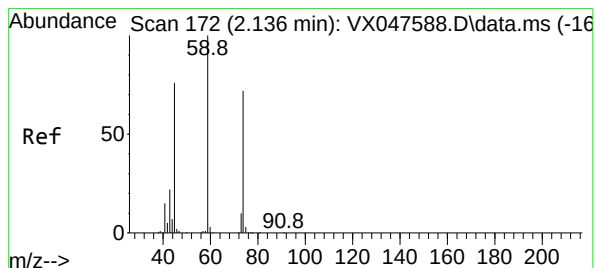
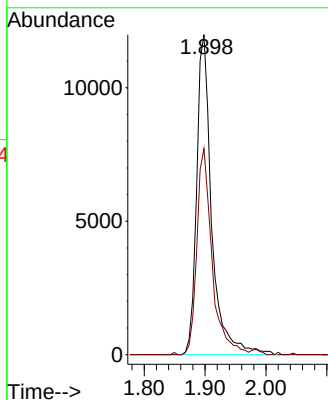
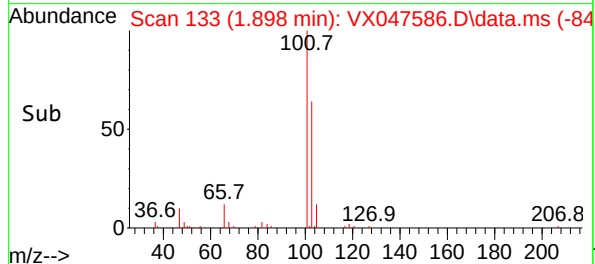
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



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

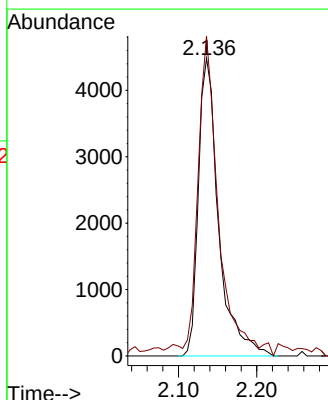
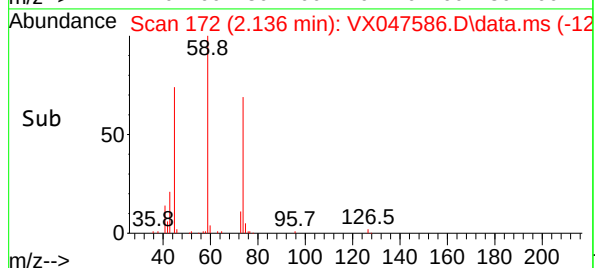
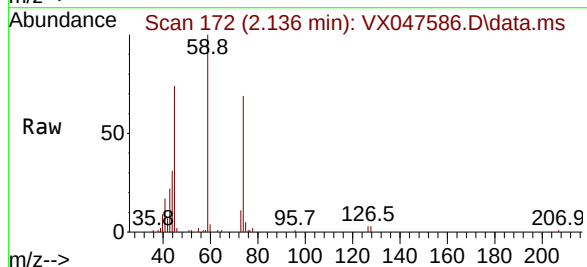
Manual Integrations
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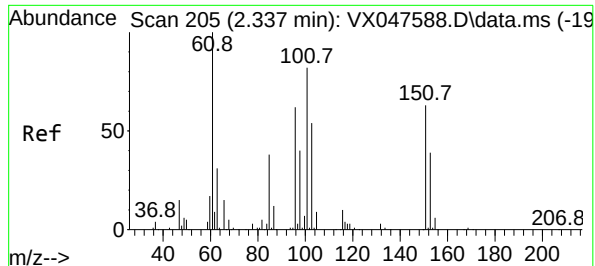
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

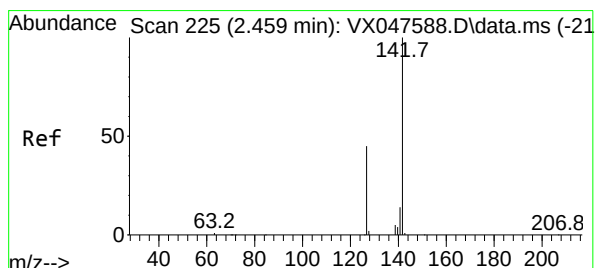
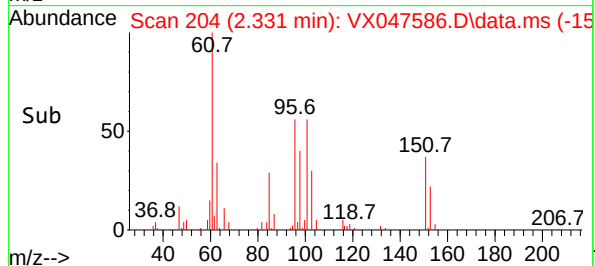
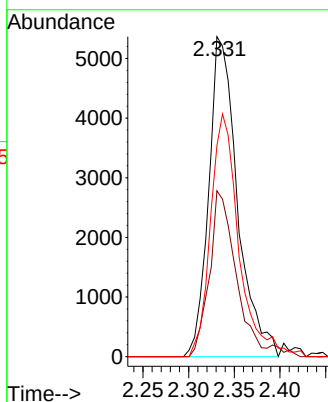
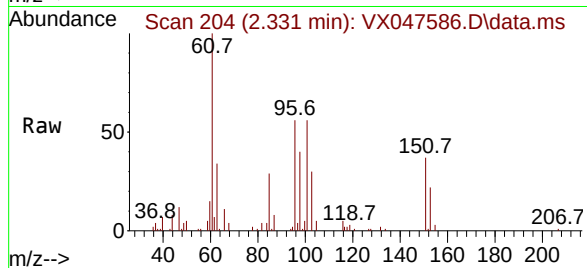
Tgt Ion:	101	Resp:	11729
Ion	Ratio	Lower	Upper
101	100		
85	47.5	35.5	53.3
151	75.0	59.4	89.0

Manual Integrations

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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#10

Methyl Iodide

Concen: 4.795 ug/l

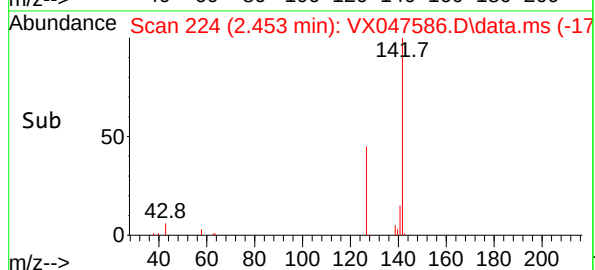
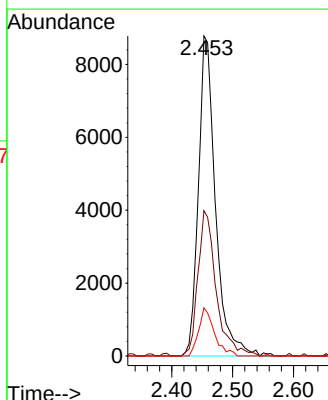
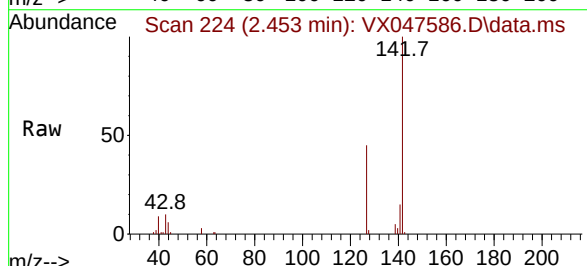
RT: 2.453 min Scan# 224

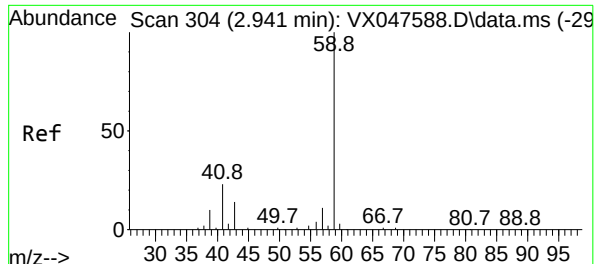
Delta R.T. -0.006 min

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

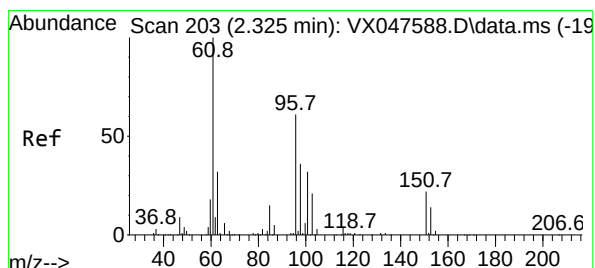
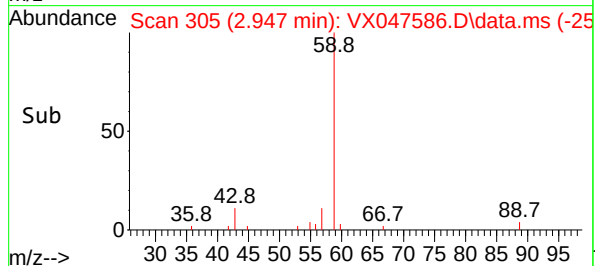
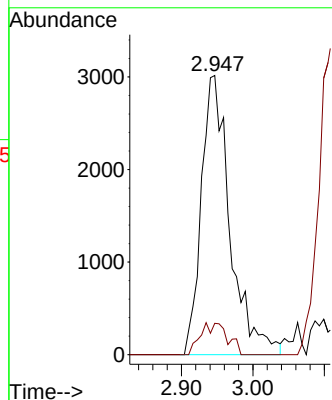
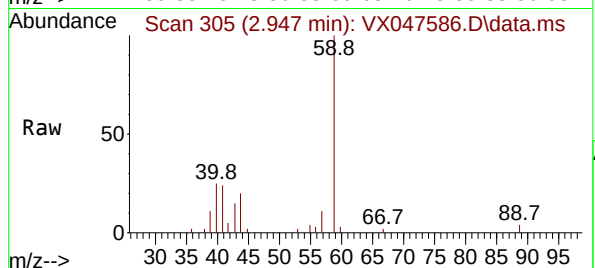
57 10.8 8.3 12.5

Manual Integrations

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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

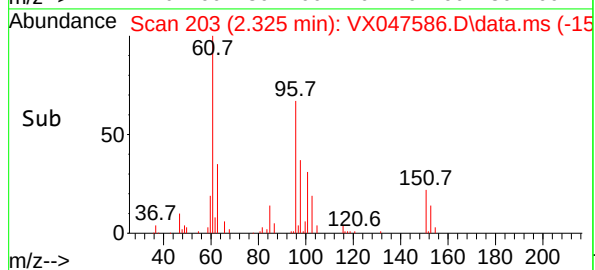
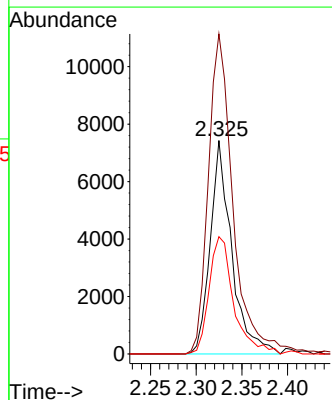
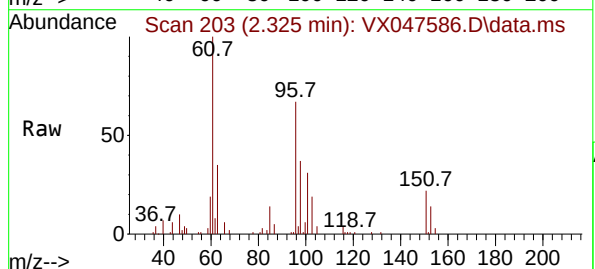
Tgt Ion: 96 Resp: 12131

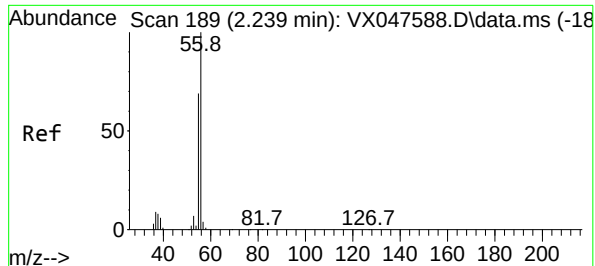
Ion Ratio Lower Upper

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

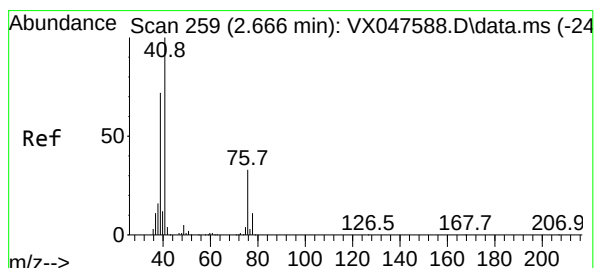
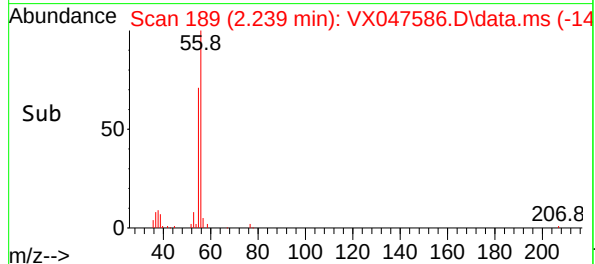
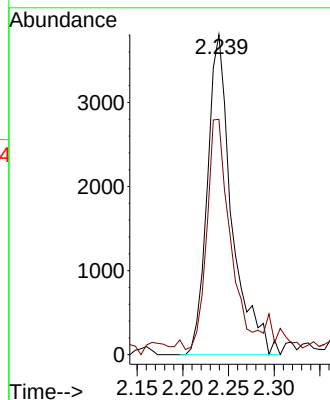
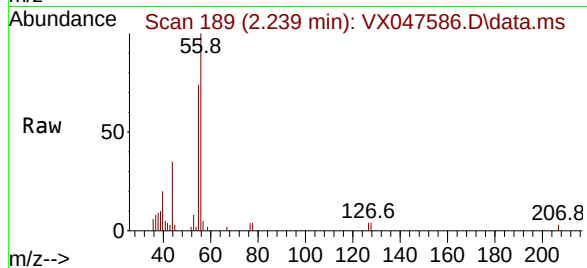
55 67.1 57.2 85.8

Manual Integrations

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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

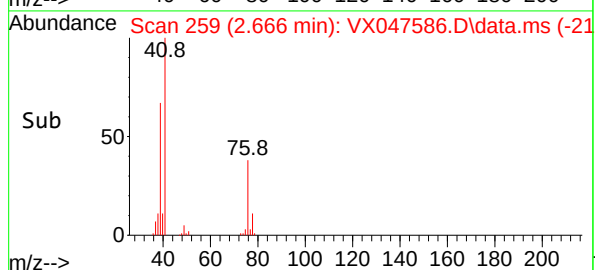
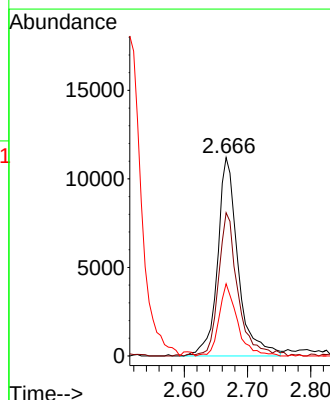
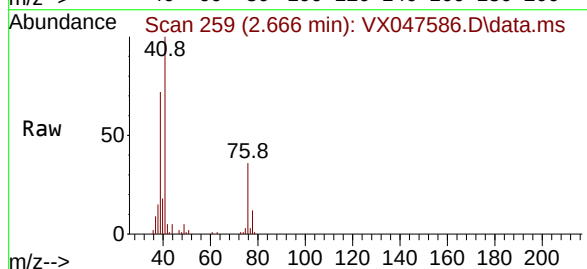
Tgt Ion: 41 Resp: 25135

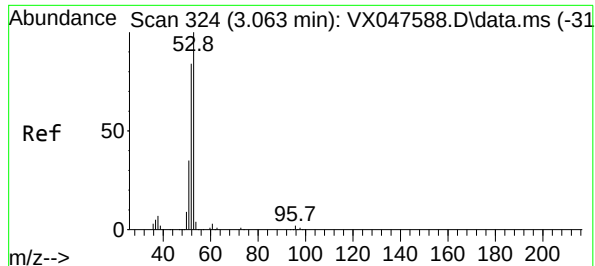
Ion Ratio Lower Upper

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 :

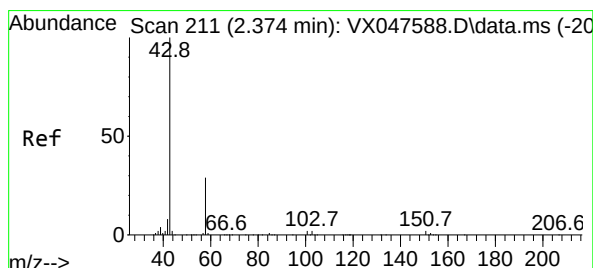
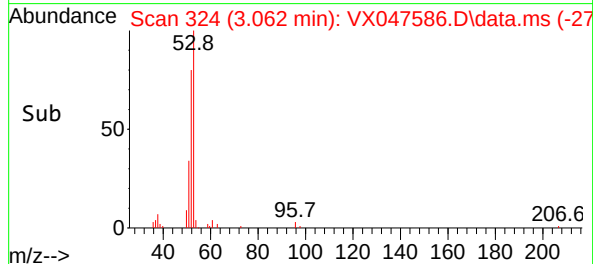
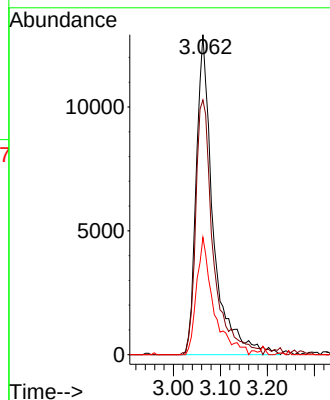
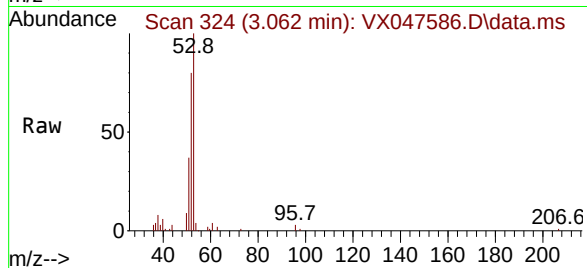
VSTDICC005

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

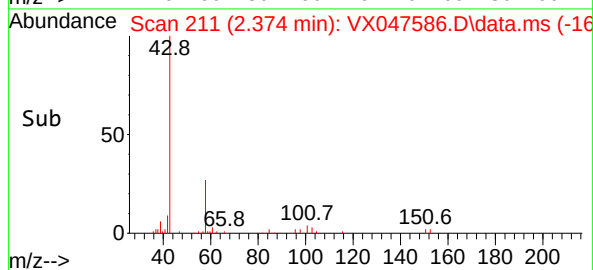
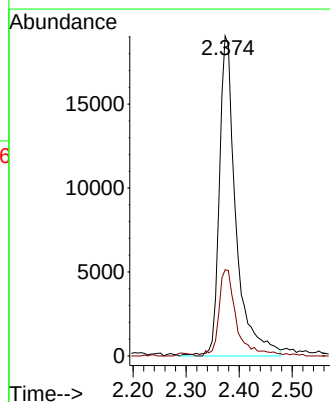
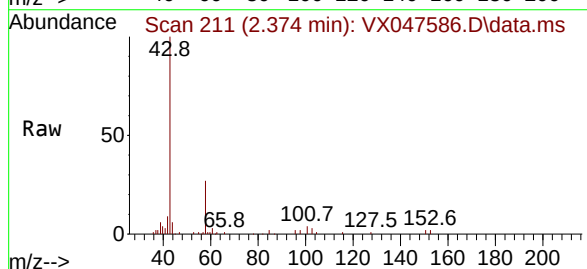
RT: 2.374 min Scan# 211

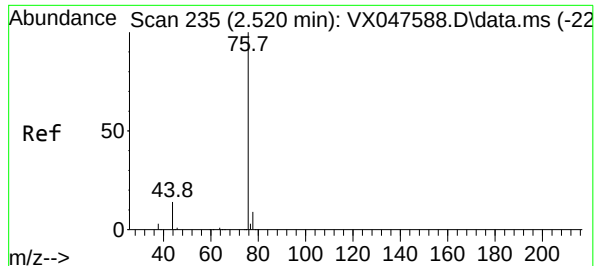
Delta R.T. -0.000 min

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





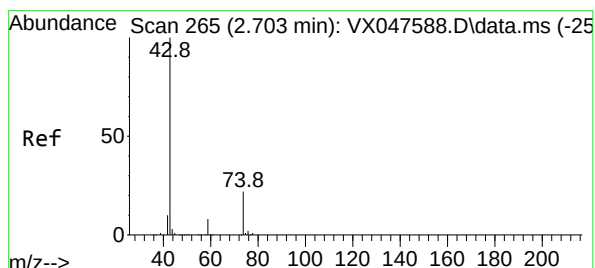
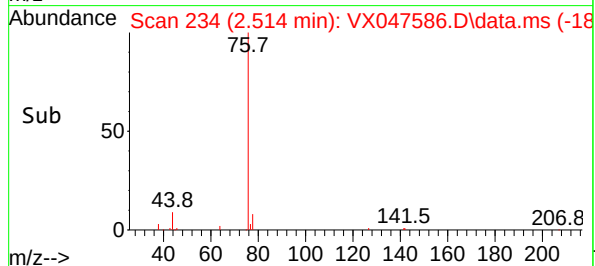
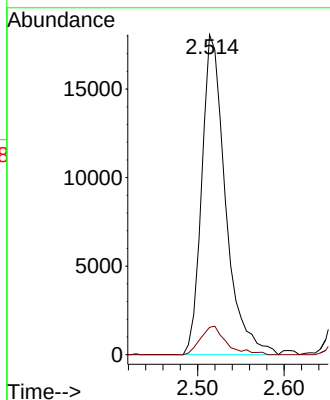
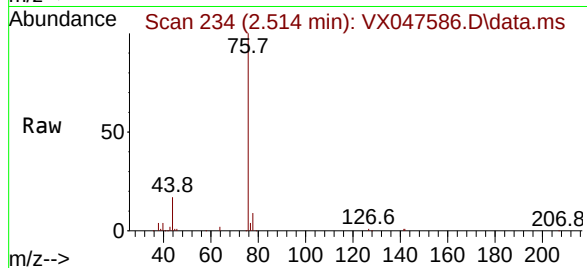
#17
Carbon Disulfide
Concen: 5.335 ug/l
RT: 2.514 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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

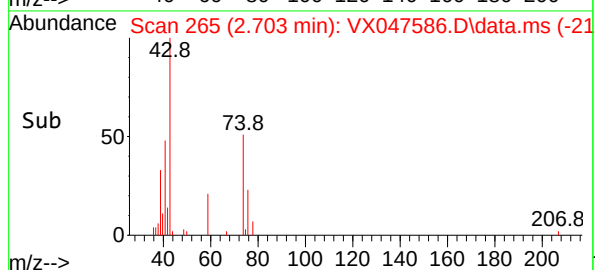
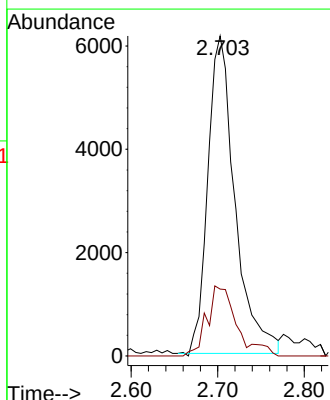
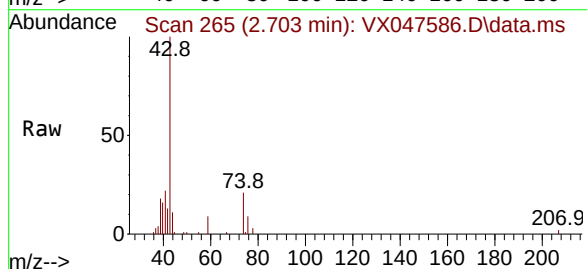
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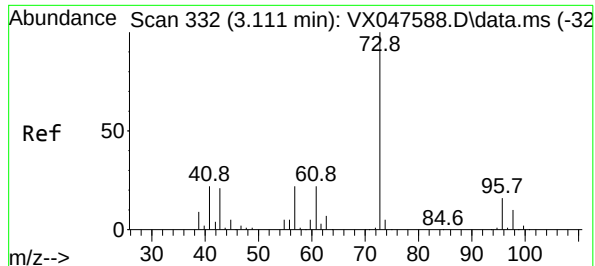
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

VSTDICC005

Tgt Ion: 73 Resp: 44390

Ion Ratio Lower Upper

73 100

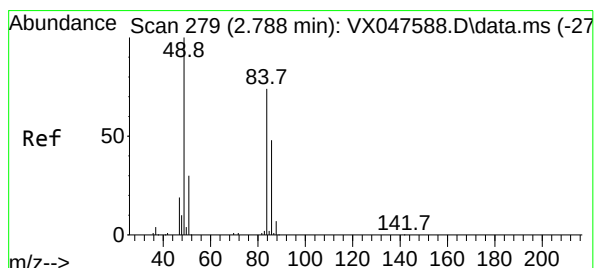
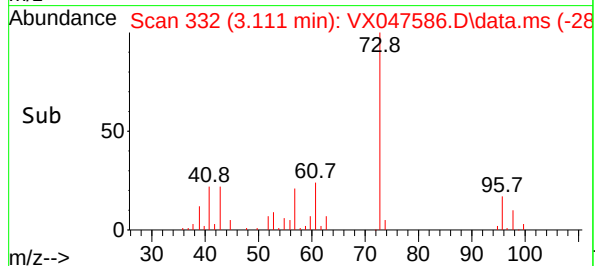
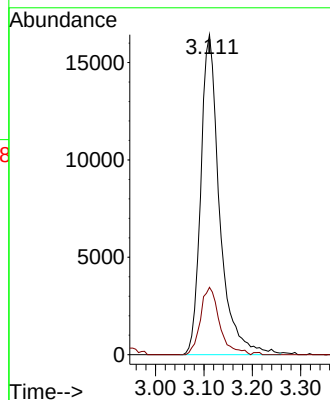
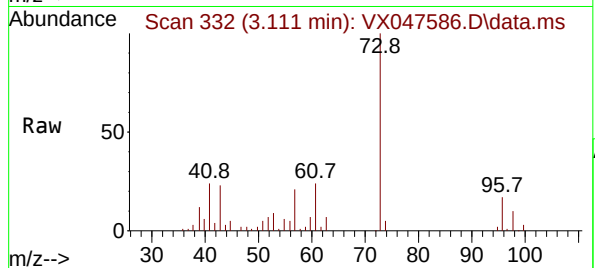
57 21.0 17.4 26.2

Manual Integrations

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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#20

Methylene Chloride

Concen: 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

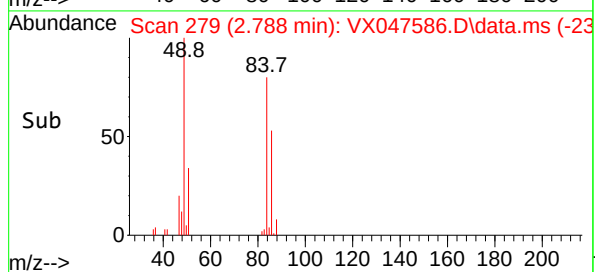
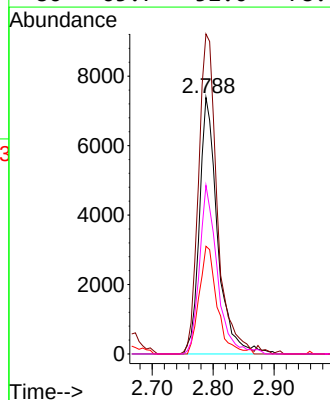
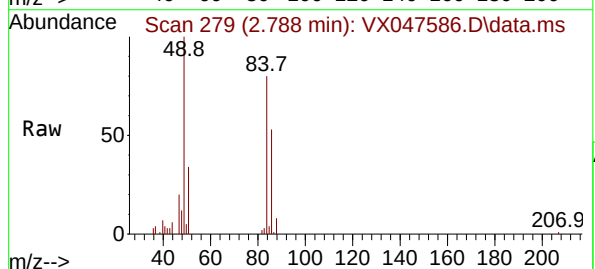
Ion Ratio Lower Upper

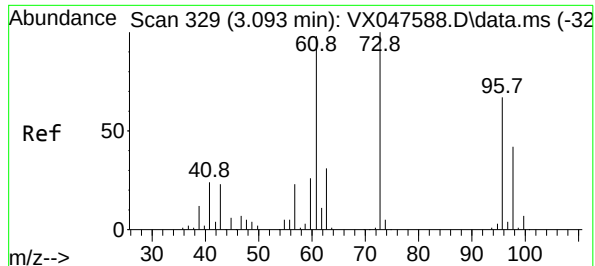
84 100

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 :

VSTDIC005

Tgt Ion: 96 Resp: 1393

Ion Ratio Lower Upper

96 100

61 140.4 116.2 174.2

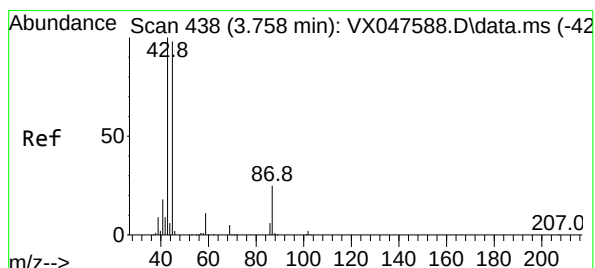
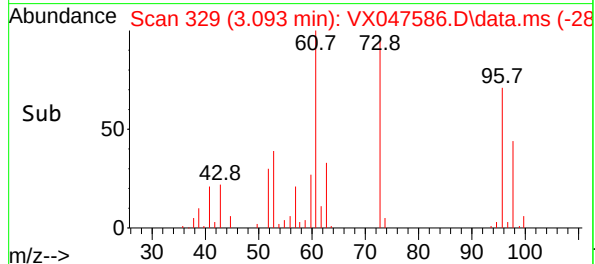
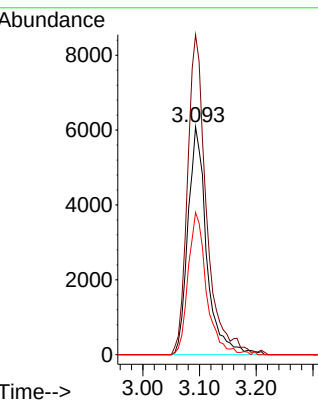
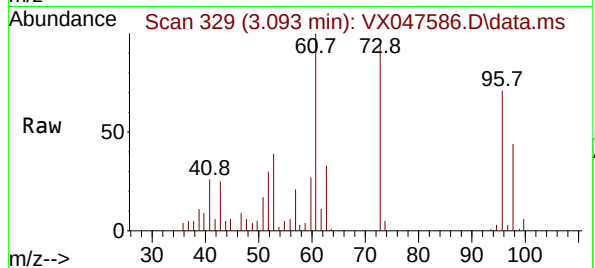
98 62.4 49.3 73.9

Manual Integrations

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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

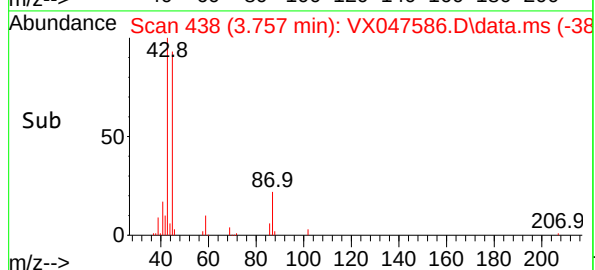
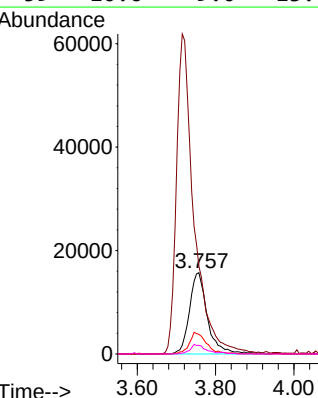
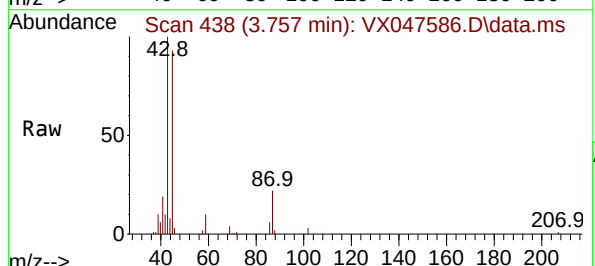
Ion Ratio Lower Upper

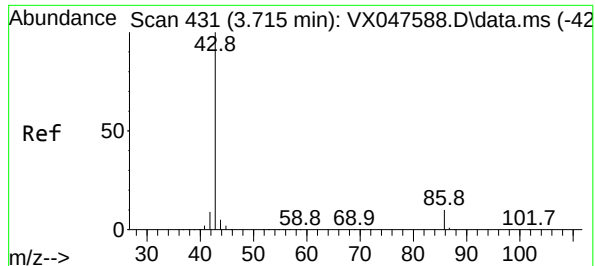
45 100

43 102.8 81.0 121.4

87 23.3 20.3 30.5

59 10.6 9.0 13.4





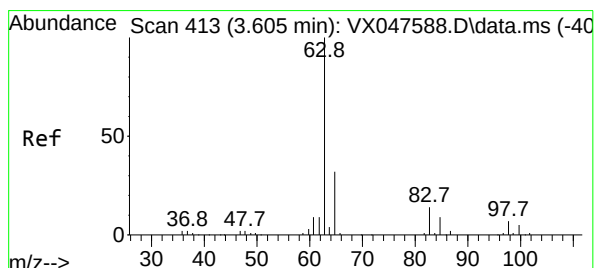
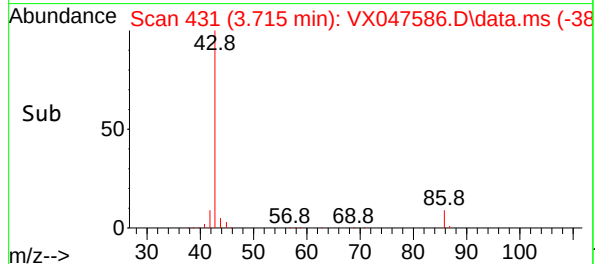
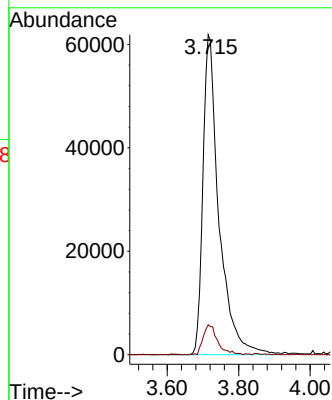
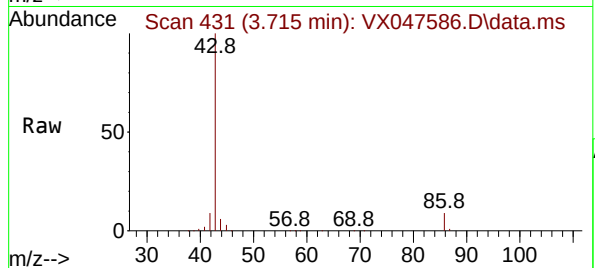
#23
Vinyl Acetate
Concen: 25.474 ug/l
RT: 3.715 min Scan# 411
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion: 43 Resp: 19217
Ion Ratio Lower Upper
43 100
86 9.4 7.8 11.8

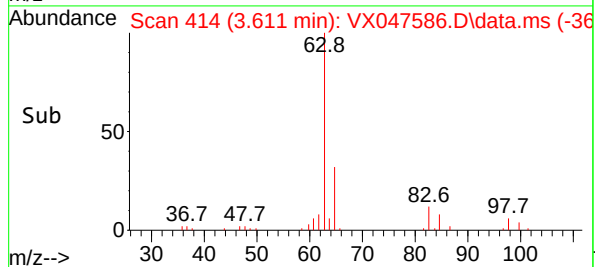
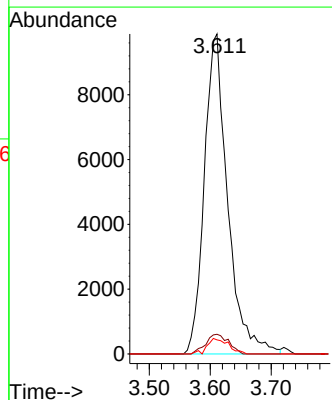
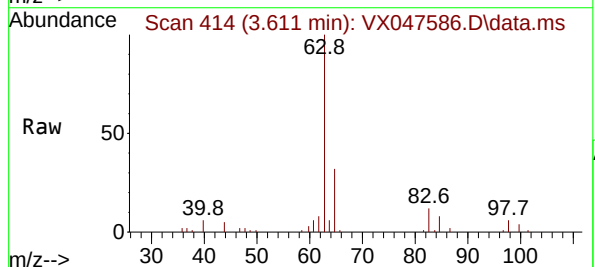
Manual Integrations
APPROVED

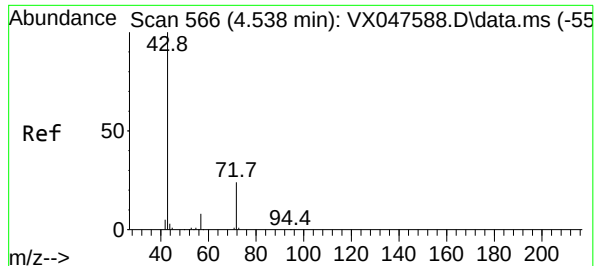
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

VSTDICC005

Tgt Ion: 43 Resp: 4665

Ion Ratio Lower Upper

43 100

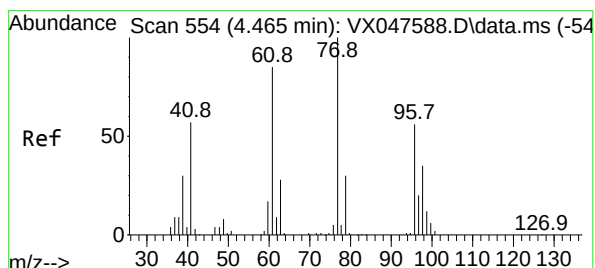
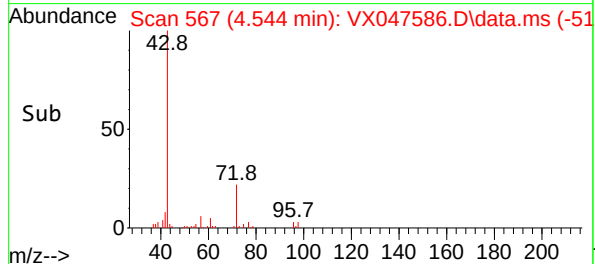
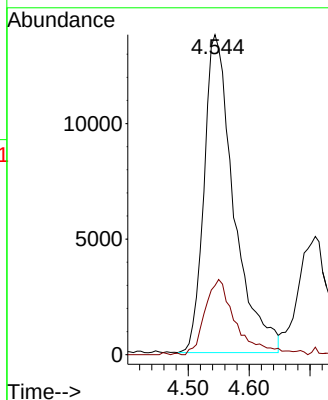
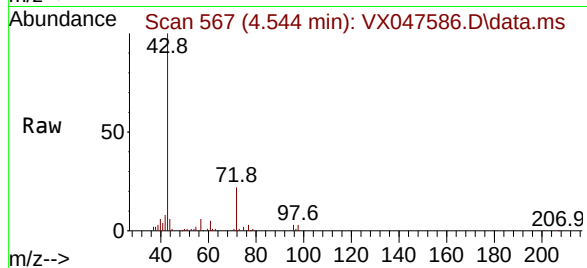
72 21.3 20.1 30.1

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

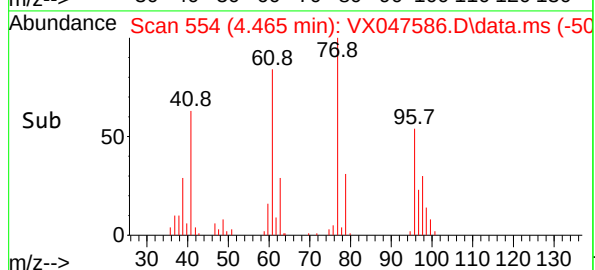
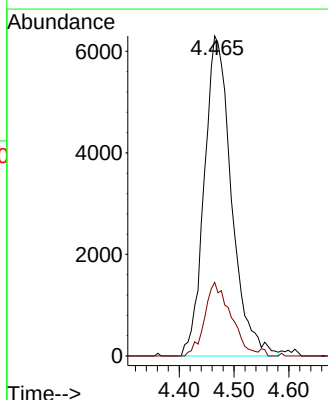
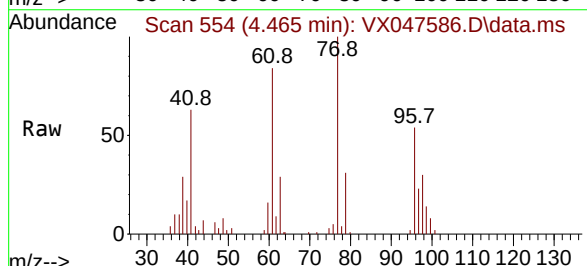
Acq: 16 Sep 2025 10:16

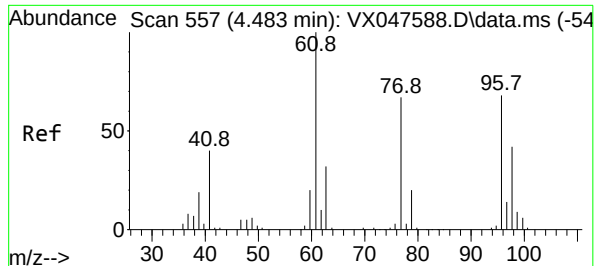
Tgt Ion: 77 Resp: 21738

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 :

VSTDIC005

Tgt Ion: 96 Resp: 15990

Ion Ratio Lower Upper

96 100

61 154.4 0.0 303.2

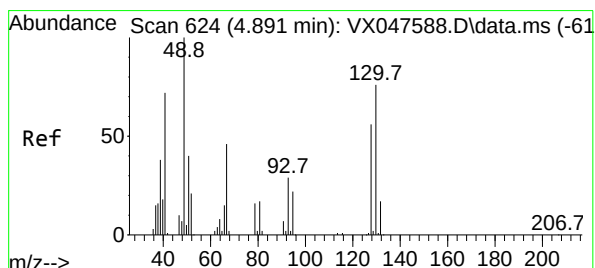
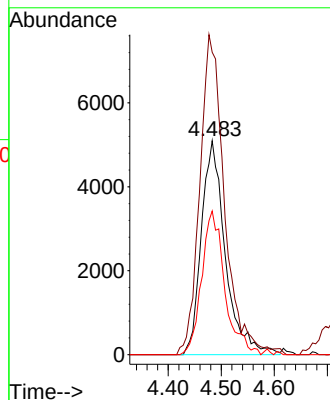
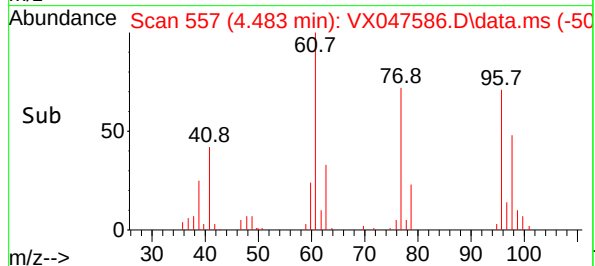
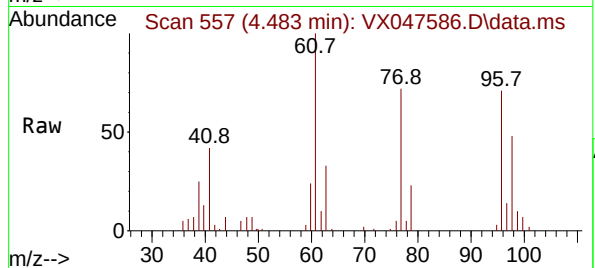
98 64.8 0.0 127.8

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

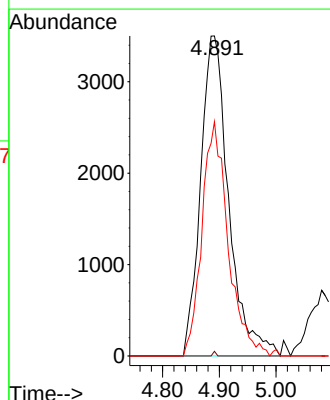
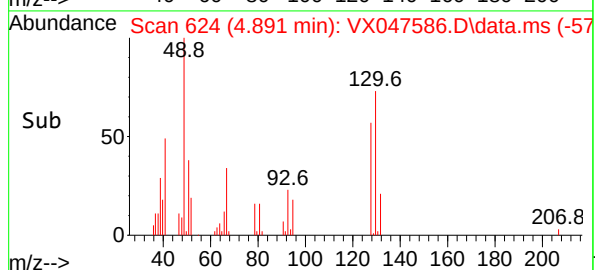
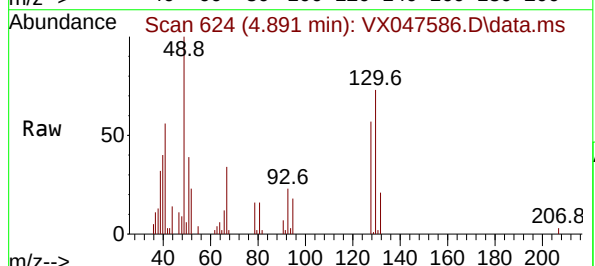
Tgt Ion: 49 Resp: 12047

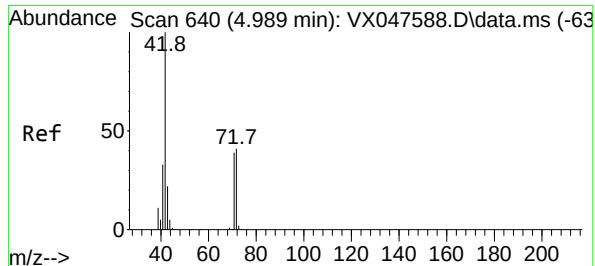
Ion Ratio Lower Upper

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 :

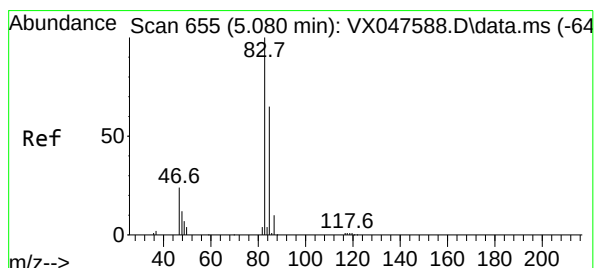
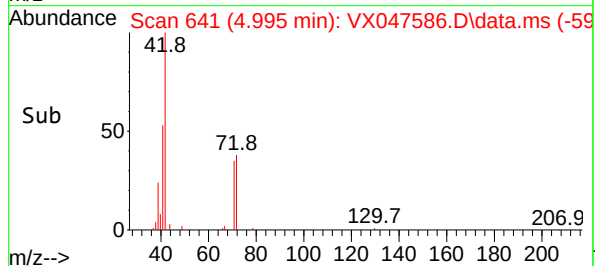
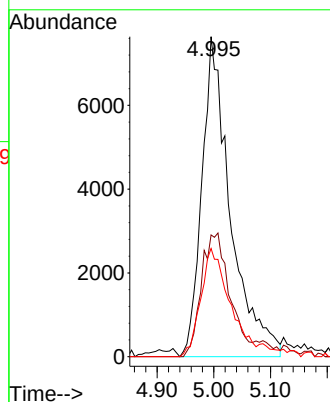
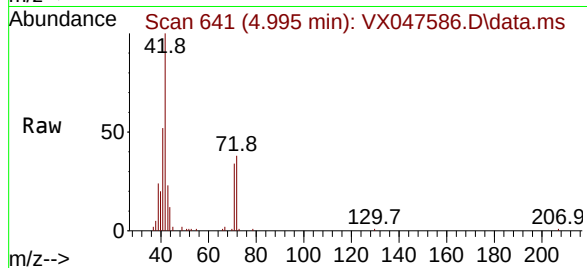
VSTDICC005

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

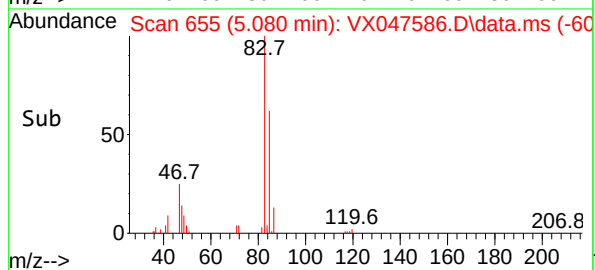
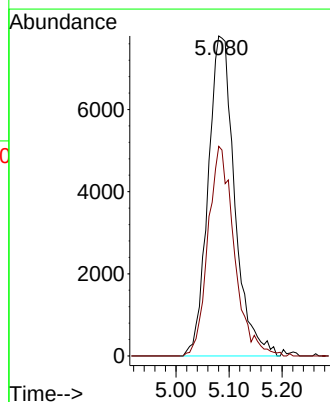
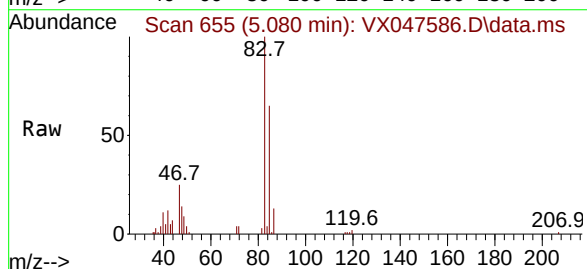
RT: 5.080 min Scan# 655

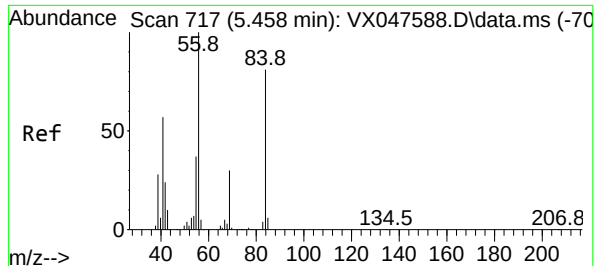
Delta R.T. -0.000 min

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

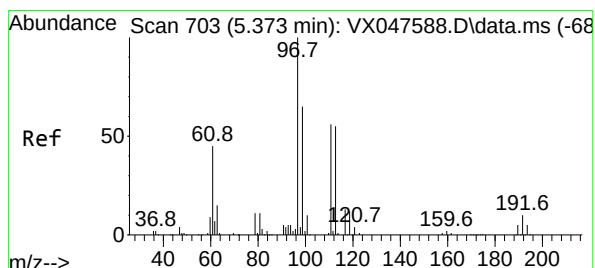
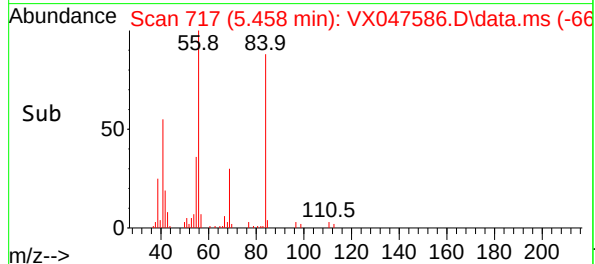
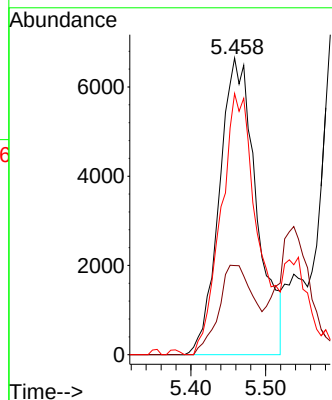
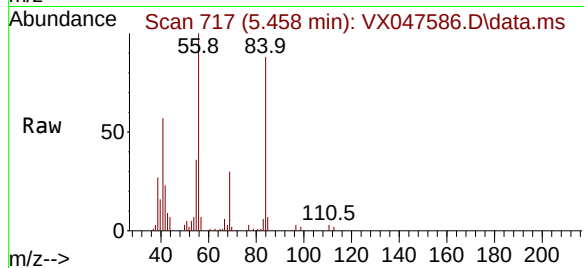
ClientSampleId :

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

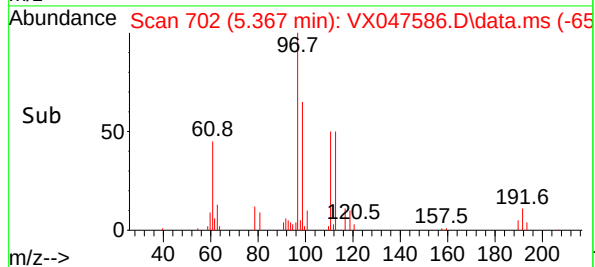
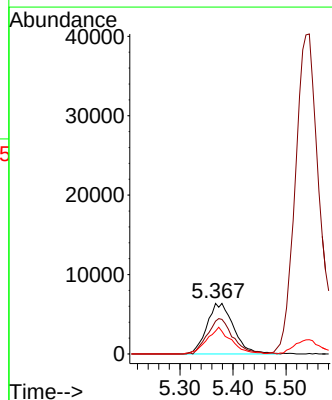
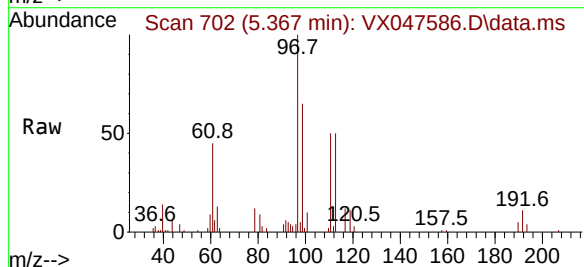
RT: 5.367 min Scan# 702

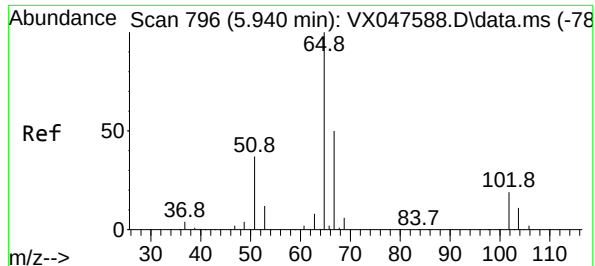
Delta R.T. -0.006 min

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

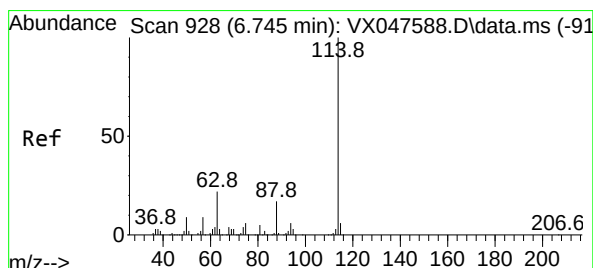
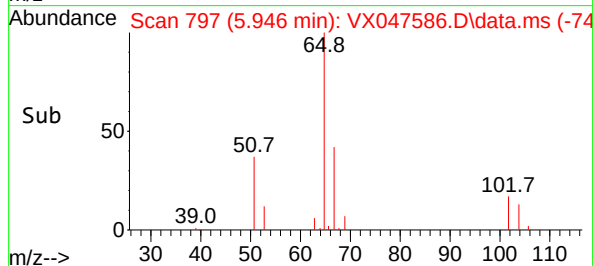
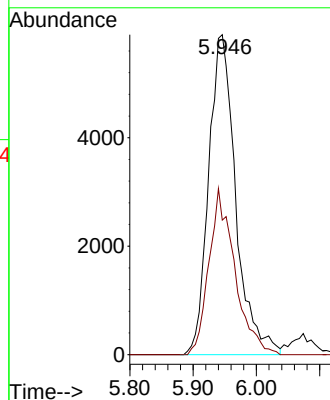
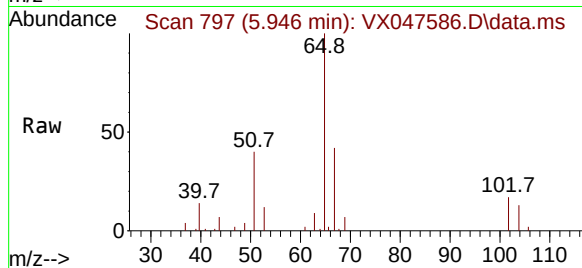
67 49.7 0.0 103.0

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

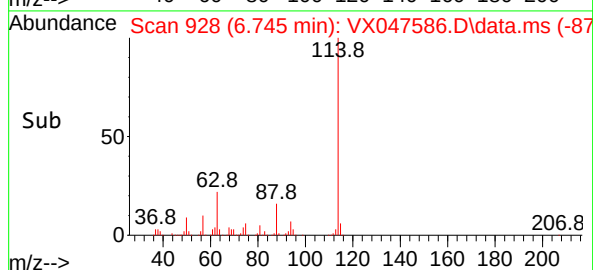
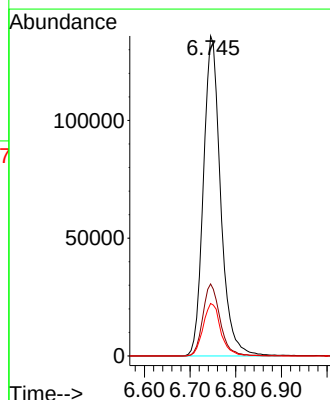
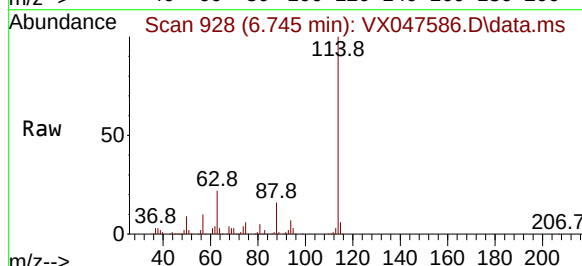
Tgt Ion:114 Resp: 355026

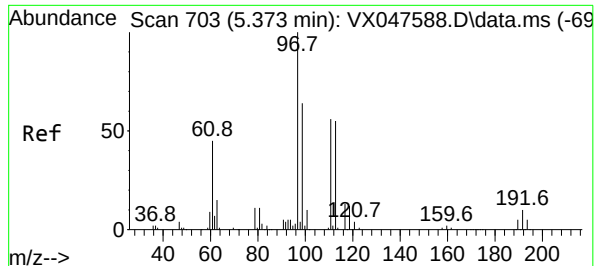
Ion Ratio Lower Upper

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

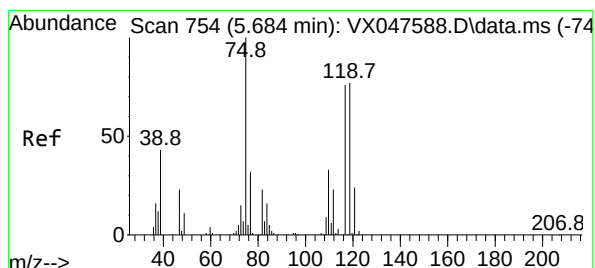
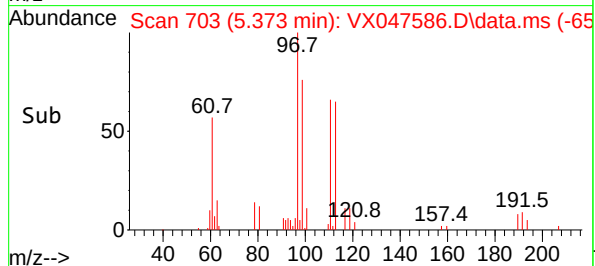
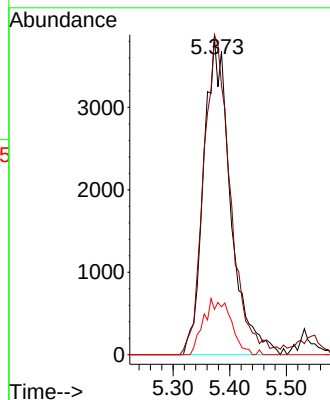
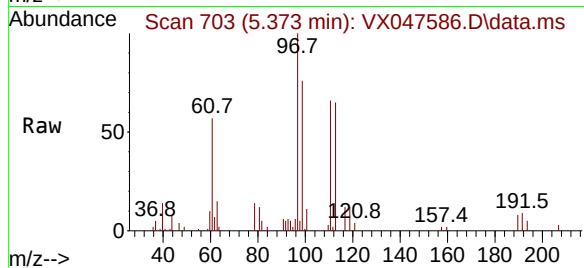
Tgt Ion:	113	Resp:	1264
Ion	Ratio	Lower	Upper
113	100		
111	100.5	80.9	121.3
192	17.8	14.2	21.4

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

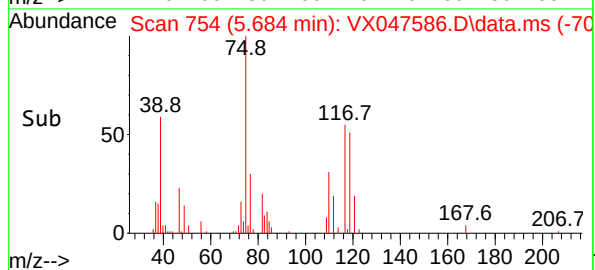
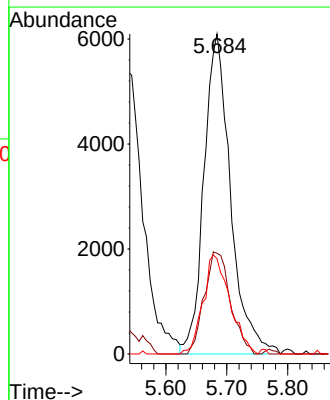
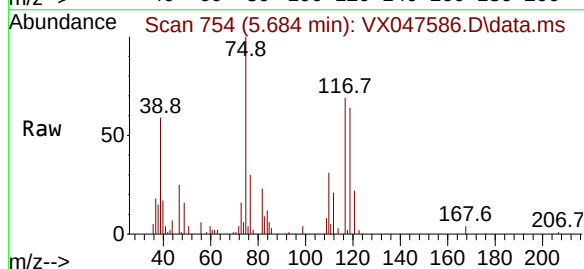
RT: 5.684 min Scan# 754

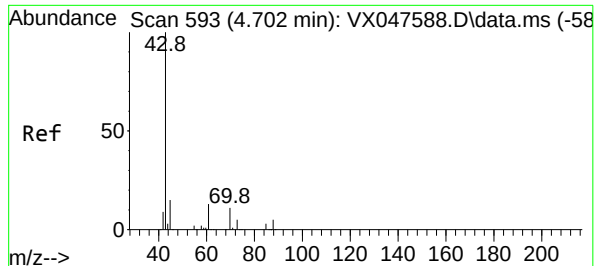
Delta R.T. -0.000 min

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

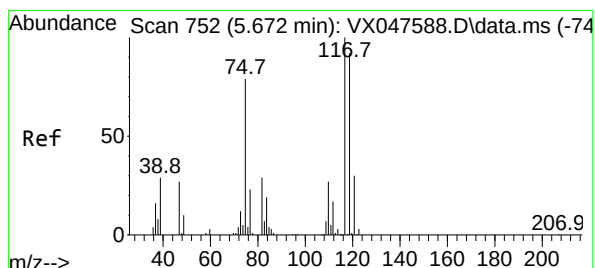
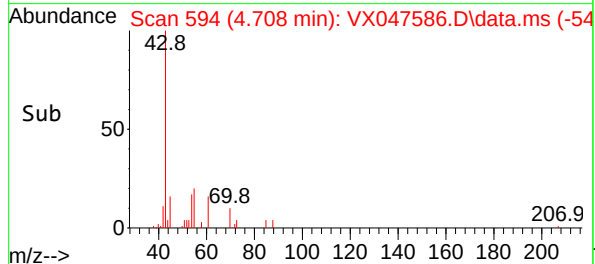
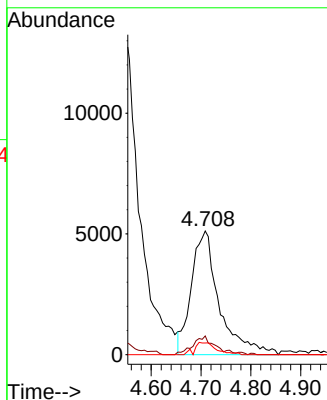
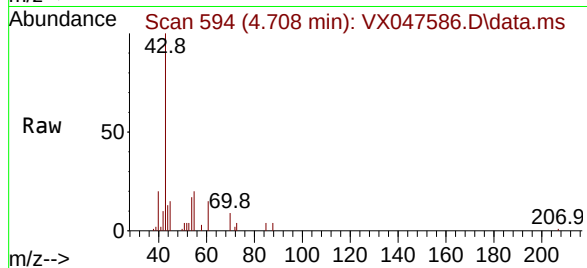
Tgt Ion:	43	Resp:	1991
Ion	Ratio	Lower	Upper
43	100		
61	11.9	9.8	14.8
70	7.6	7.9	11.9

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

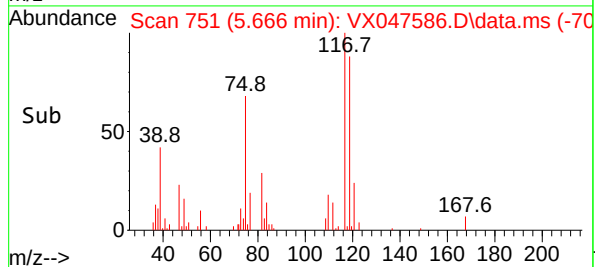
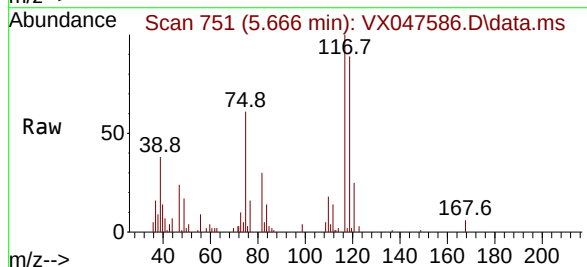
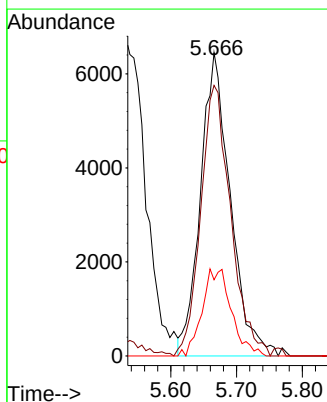
RT: 5.666 min Scan# 751

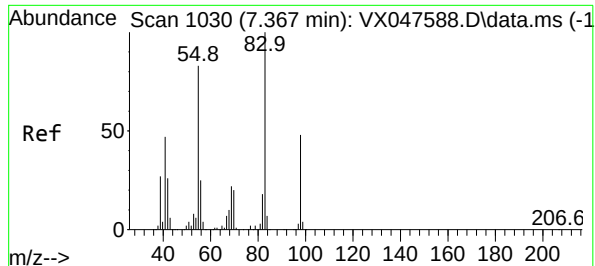
Delta R.T. -0.006 min

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 :

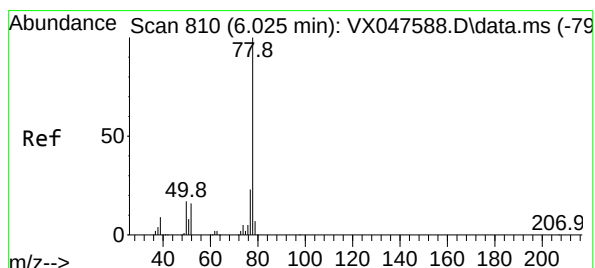
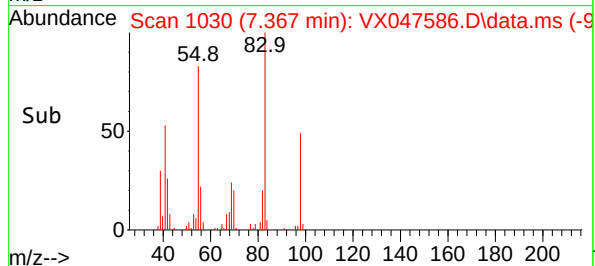
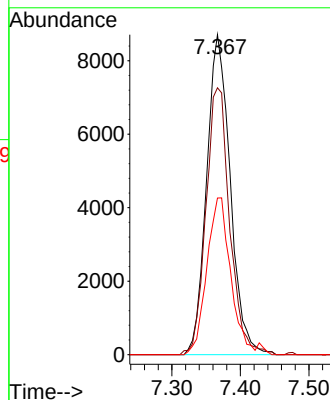
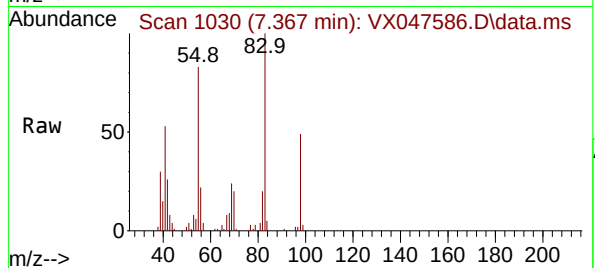
VSTDICC005

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

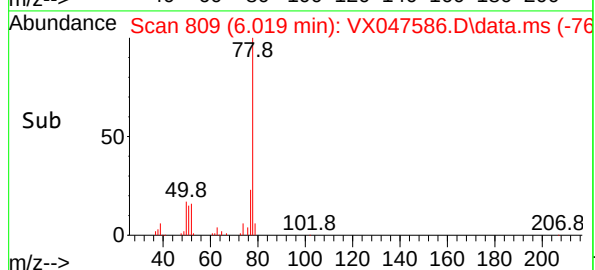
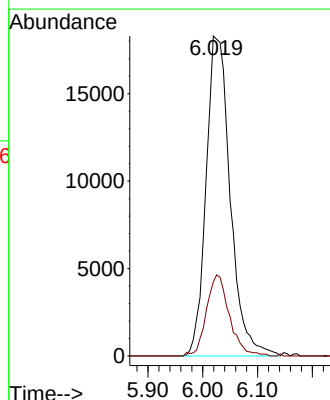
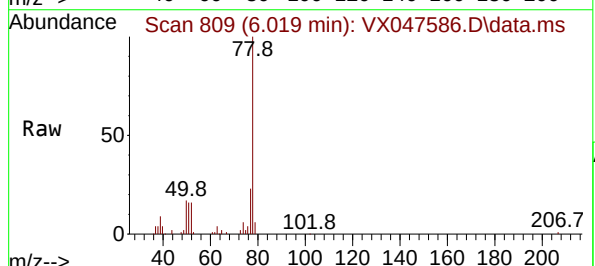
RT: 6.019 min Scan# 809

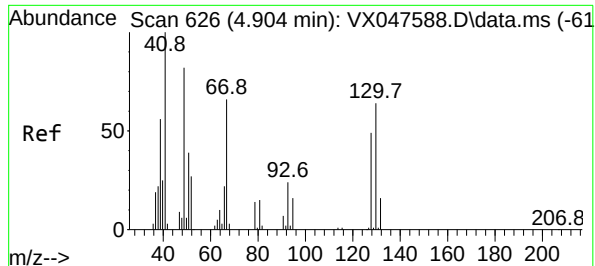
Delta R.T. -0.006 min

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





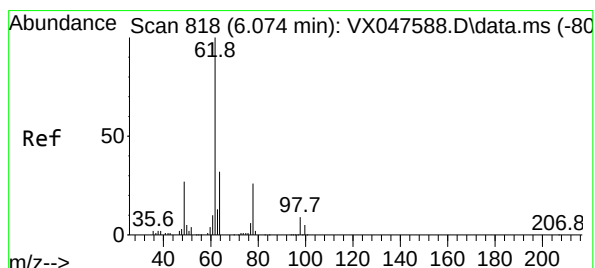
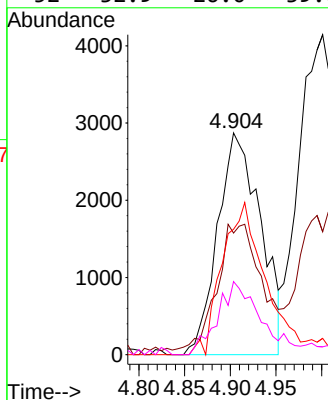
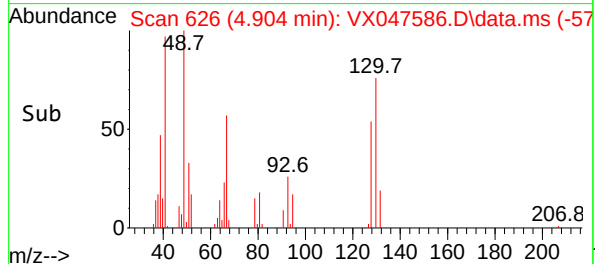
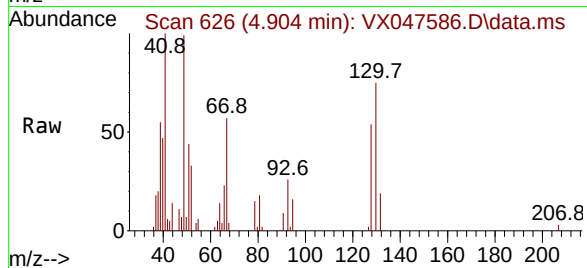
#41
Methacrylonitrile
Concen: 4.883 ug/l
RT: 4.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

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

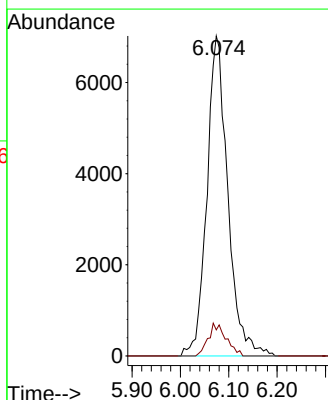
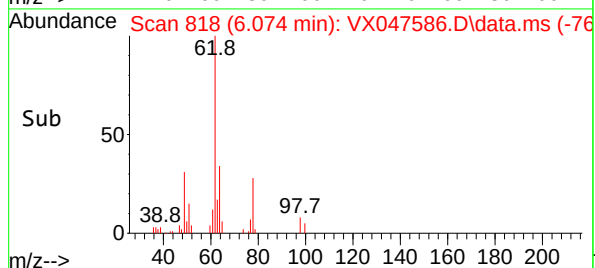
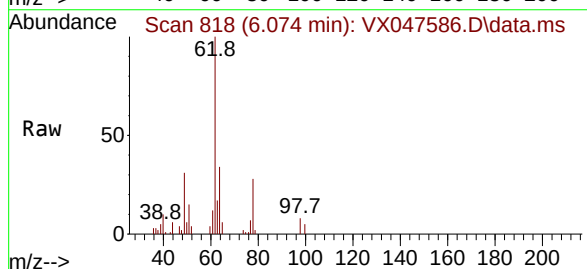
Manual Integrations
APPROVED

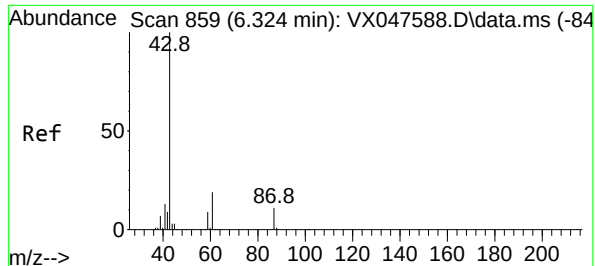
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

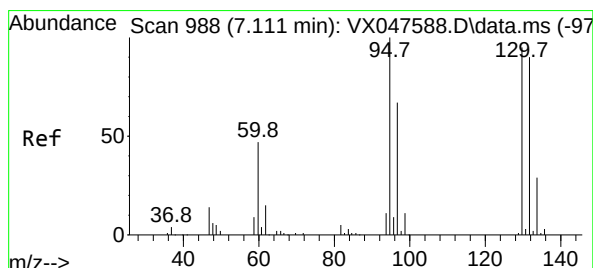
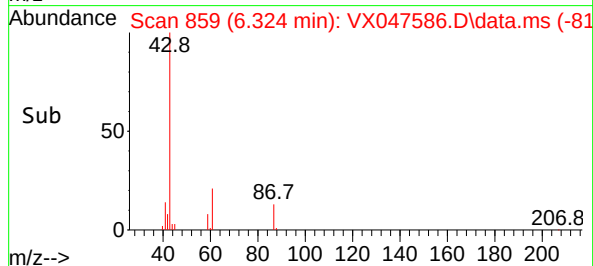
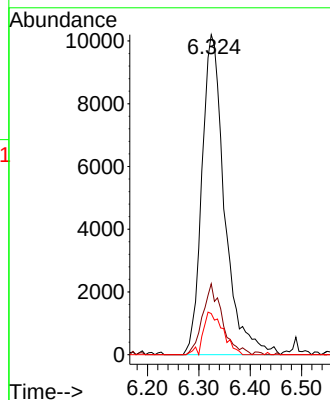
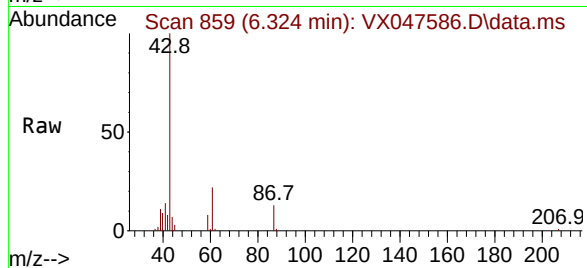
VSTDIC005

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

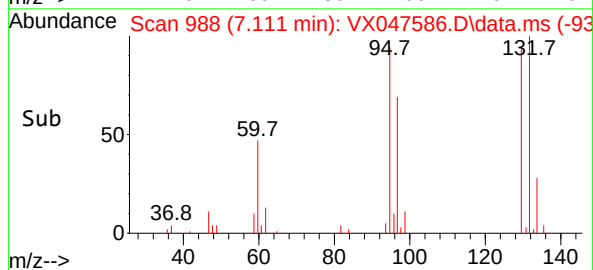
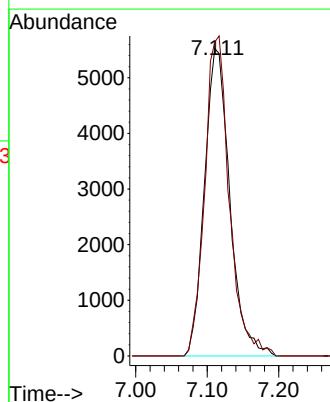
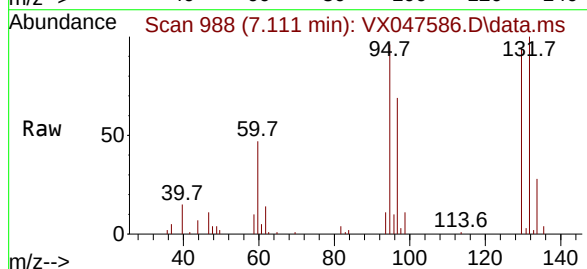
RT: 7.111 min Scan# 988

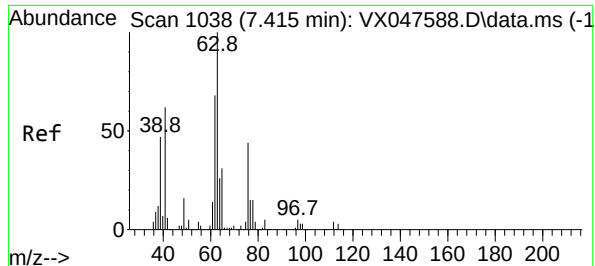
Delta R.T. -0.000 min

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

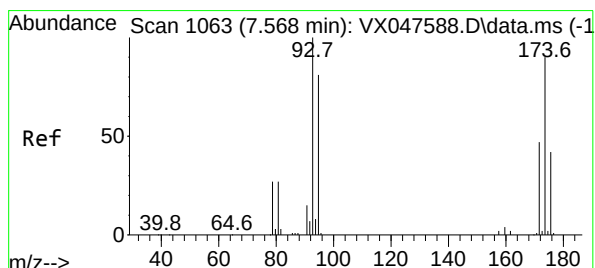
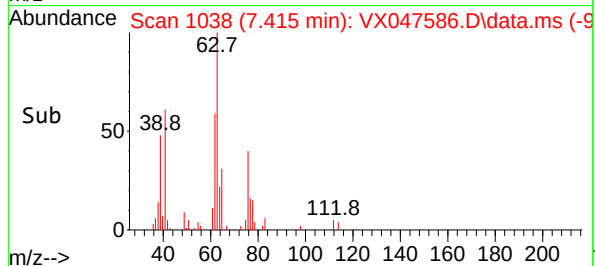
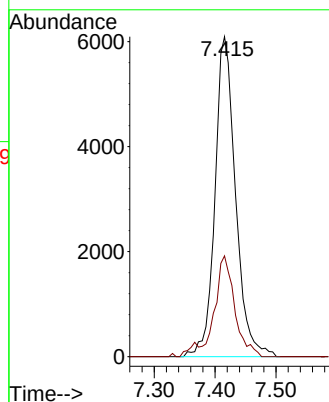
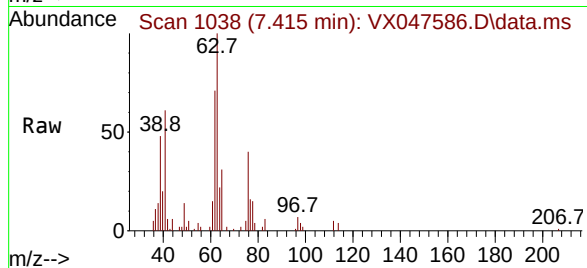
65 31.5 24.7 37.1

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

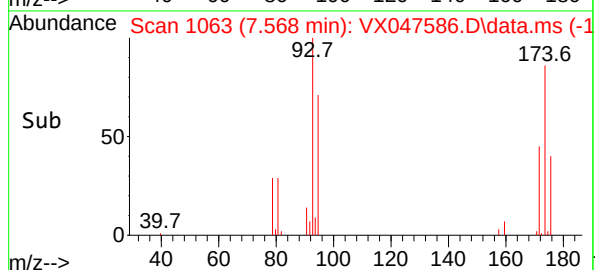
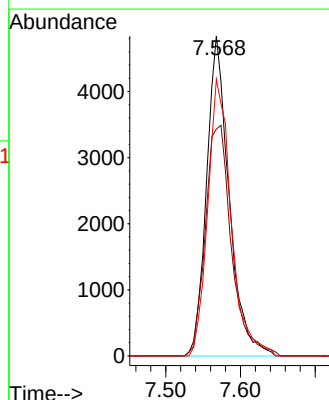
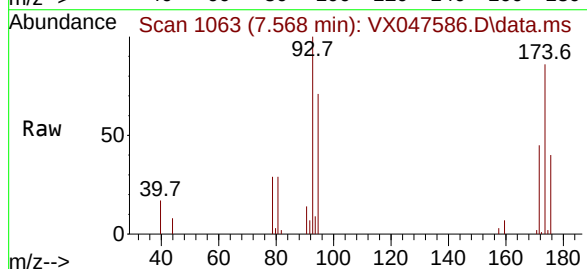
Tgt Ion: 93 Resp: 10133

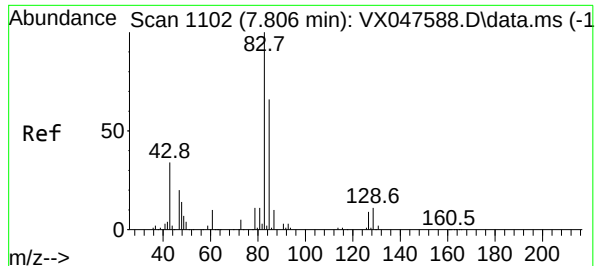
Ion Ratio Lower Upper

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

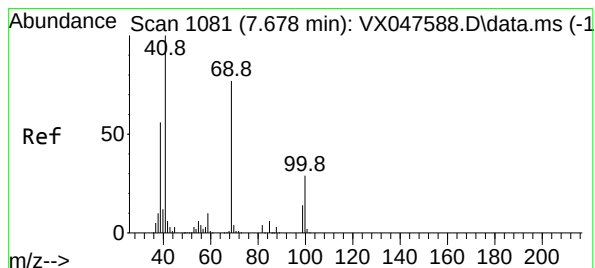
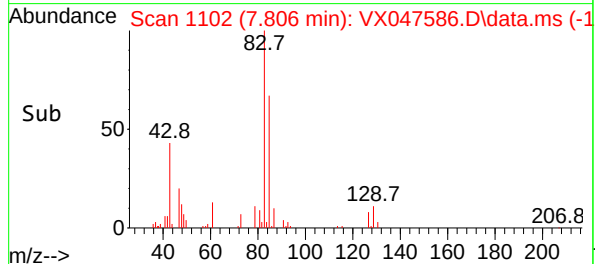
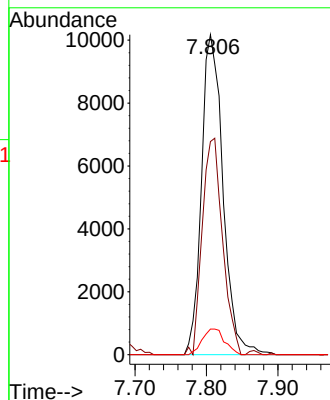
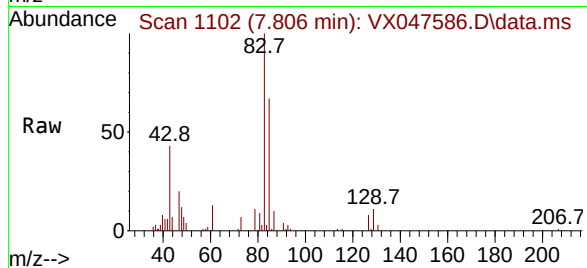
Tgt Ion:	83	Resp:	21270
Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.5	78.7
127	7.8	6.9	10.3

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

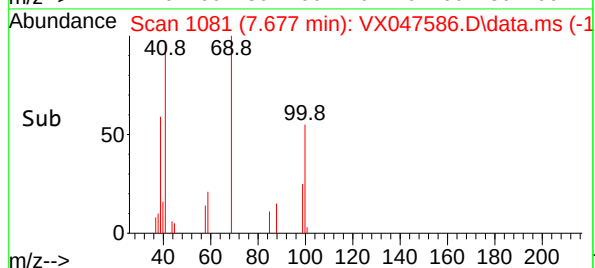
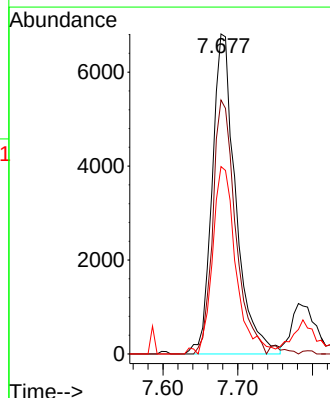
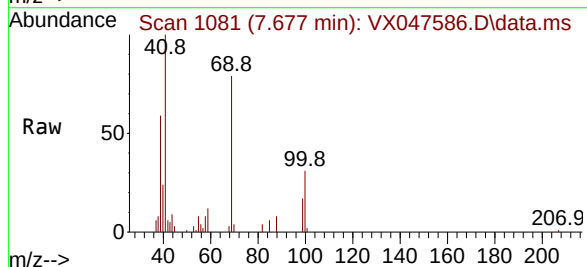
RT: 7.677 min Scan# 1081

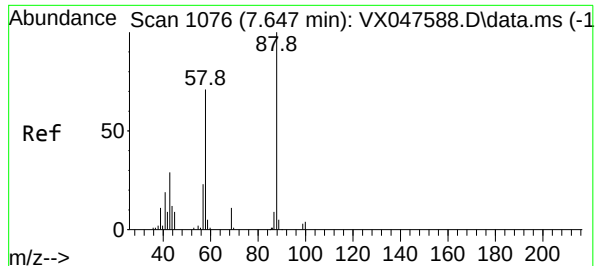
Delta R.T. -0.000 min

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 :

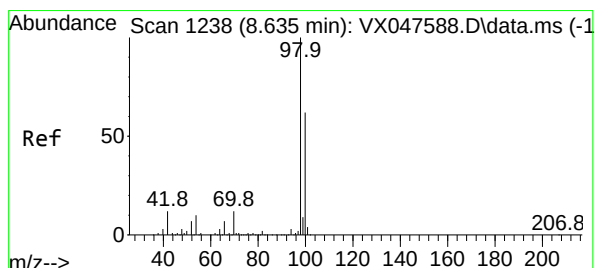
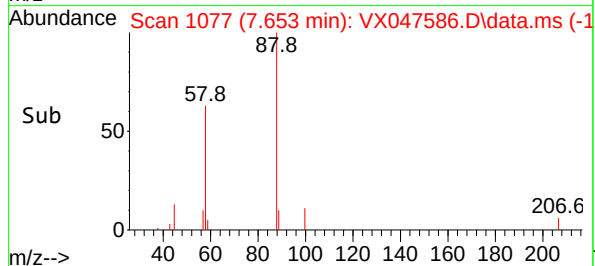
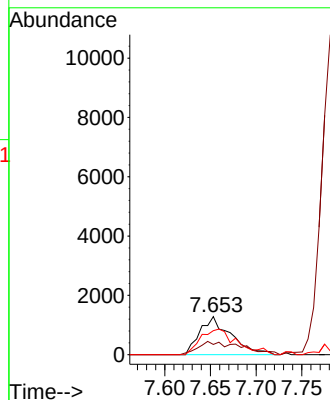
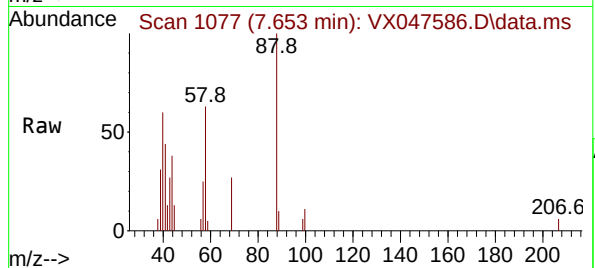
VSTDICC005

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

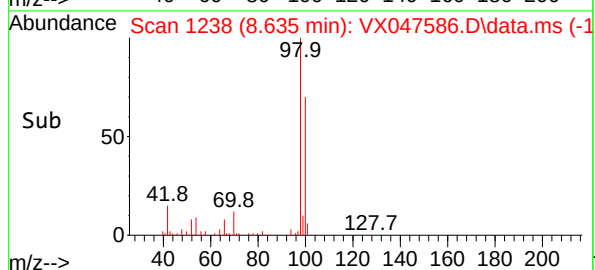
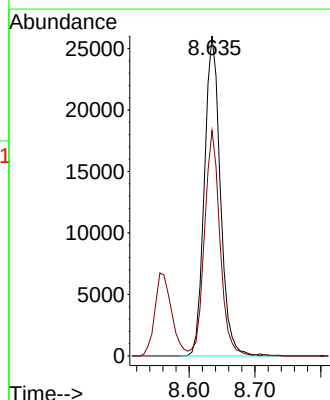
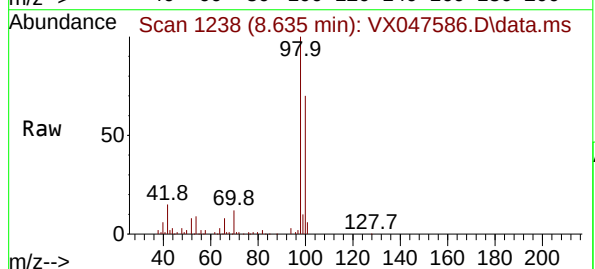
RT: 8.635 min Scan# 1238

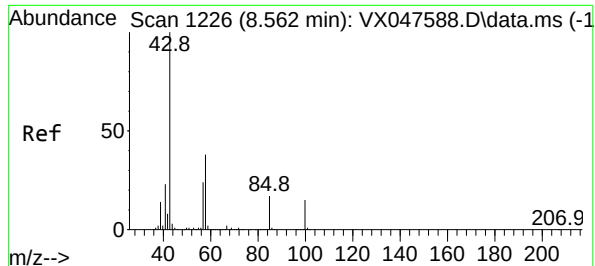
Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

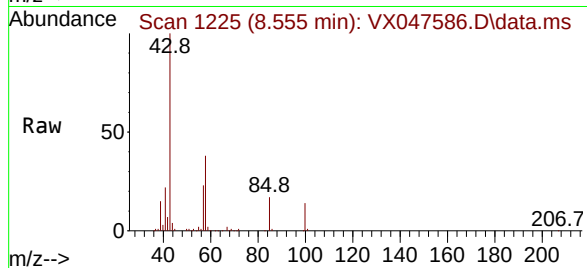
Tgt Ion:	98	Resp:	43926
Ion	Ratio	Lower	Upper
98	100		
100	68.4	53.0	79.4





#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

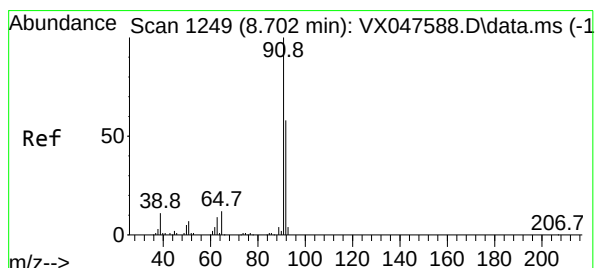
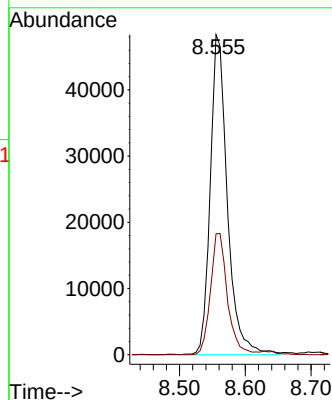
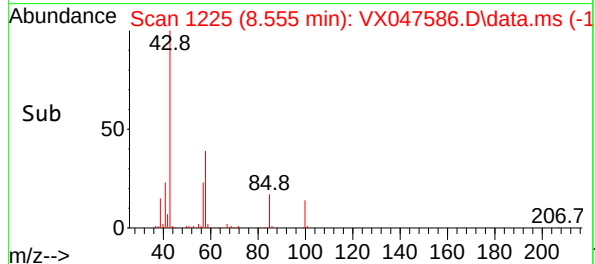
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



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

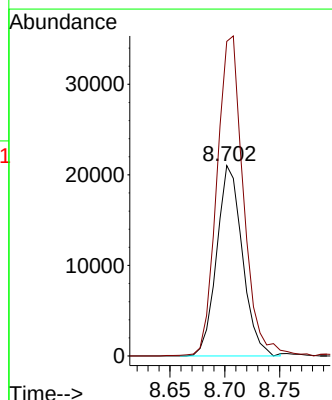
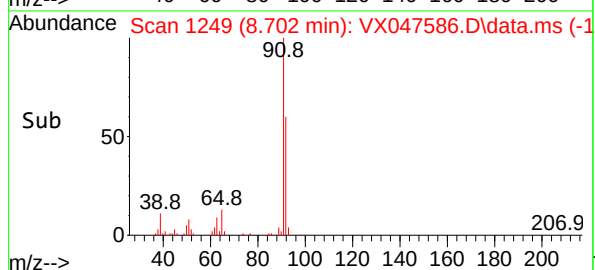
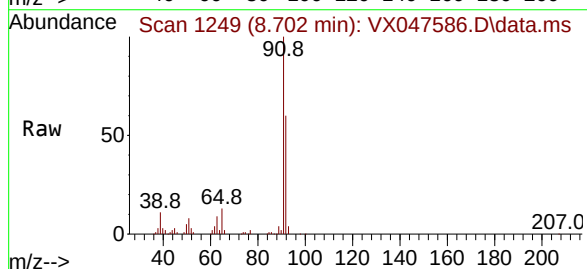
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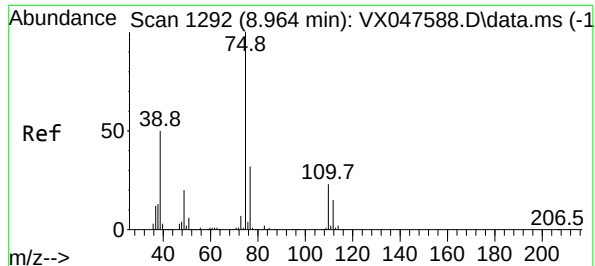
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

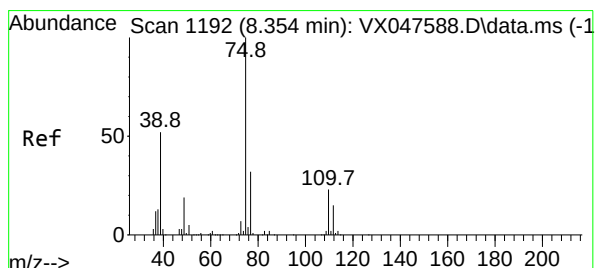
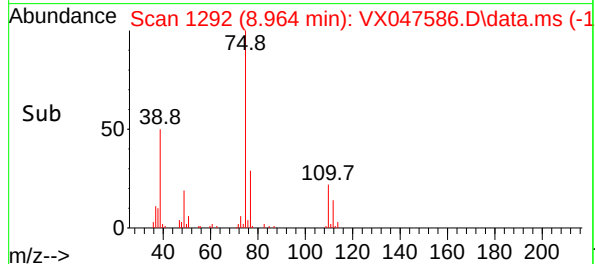
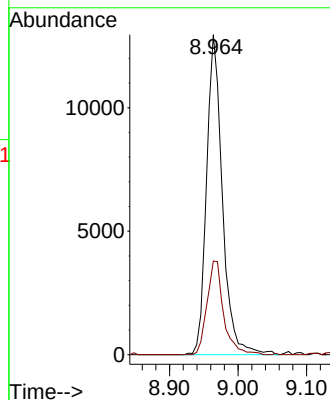
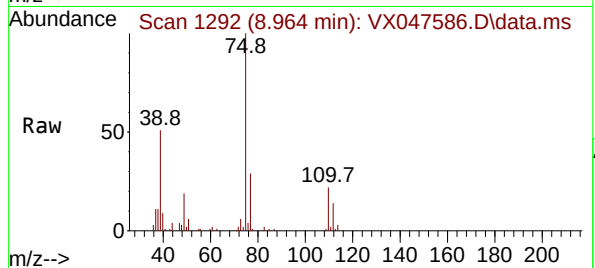
77 30.2 25.4 38.2

Manual Integrations

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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

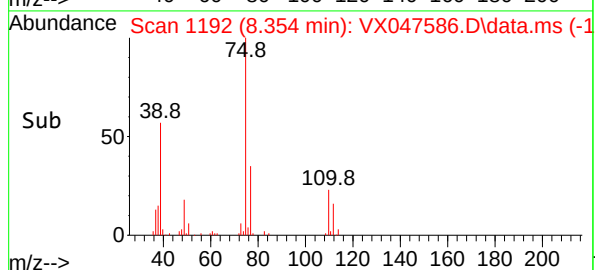
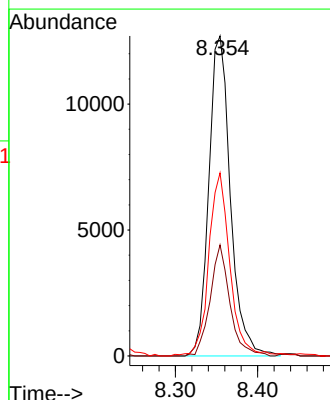
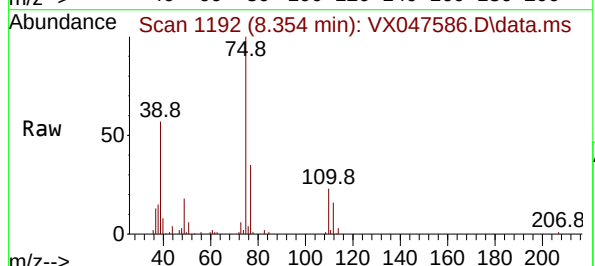
Tgt Ion: 75 Resp: 23157

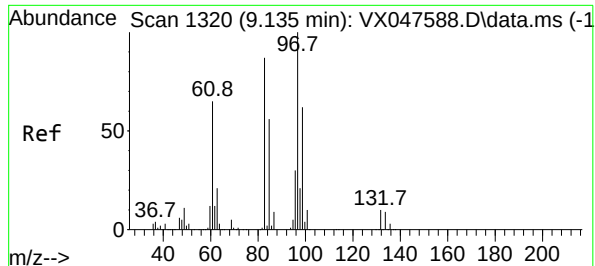
Ion Ratio Lower Upper

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 :

VSTDIC005

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

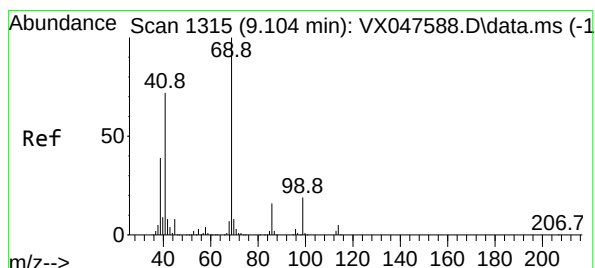
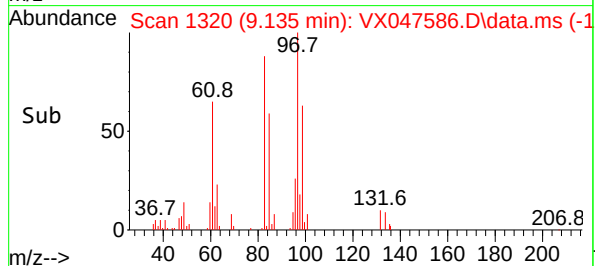
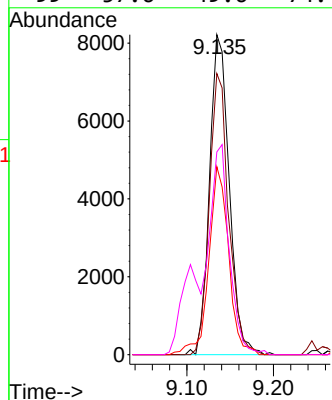
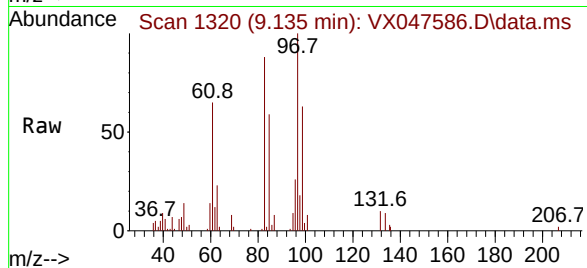
99 57.6 49.6 74.4

Manual Integrations

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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

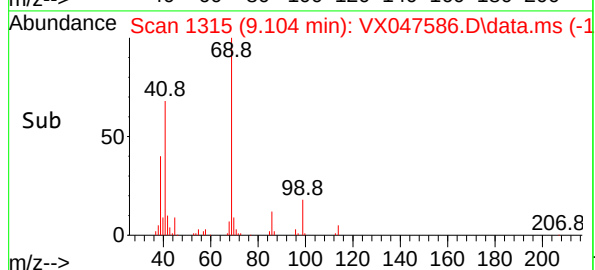
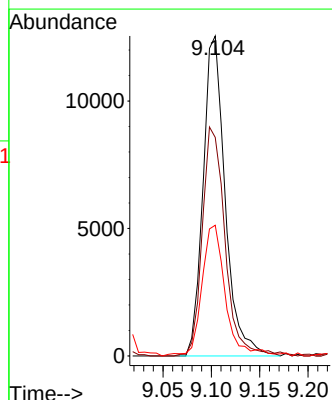
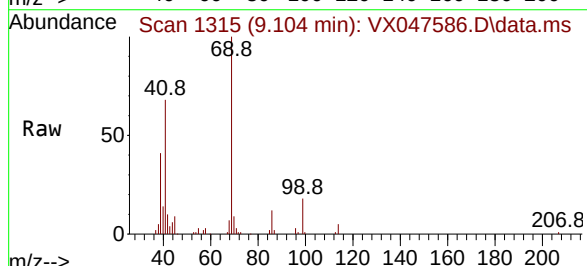
Tgt Ion: 69 Resp: 19980

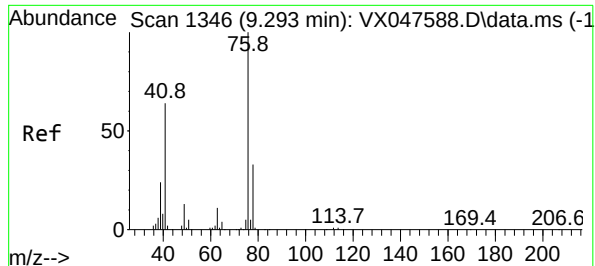
Ion Ratio Lower Upper

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# 11

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 22989

Ion Ratio Lower Upper

76 100

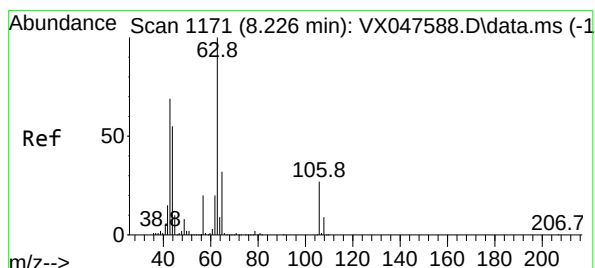
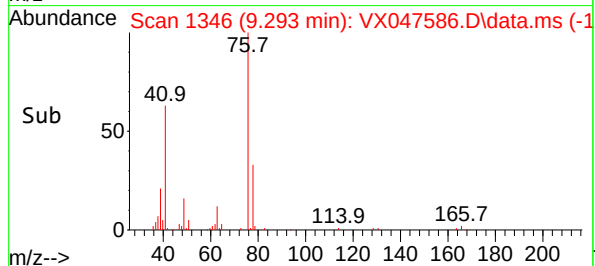
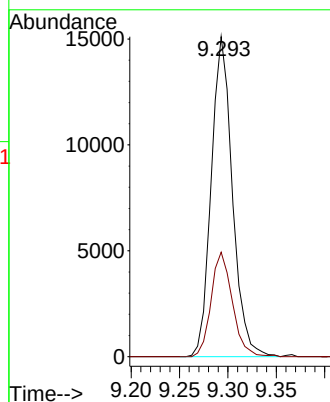
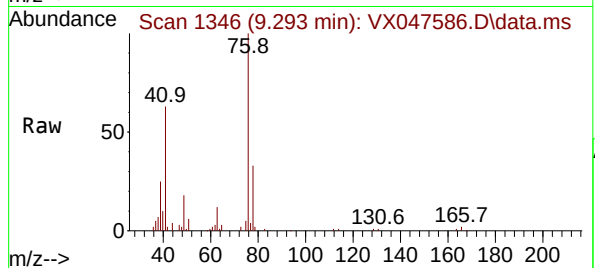
78 32.8 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#58

2-Chloroethyl Vinyl ether

Concen: 27.899 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX047586.D

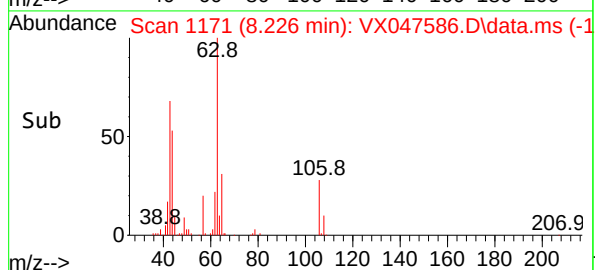
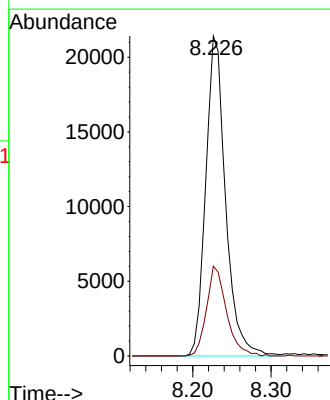
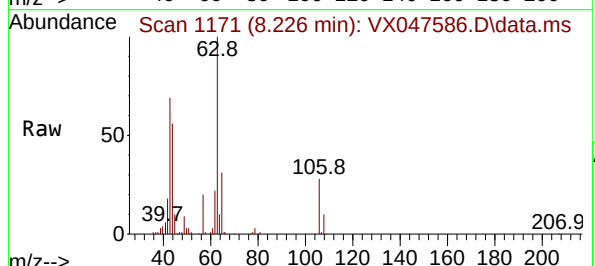
Acq: 16 Sep 2025 10:16

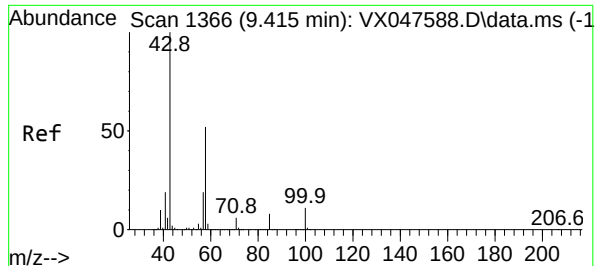
Tgt Ion: 63 Resp: 37585

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

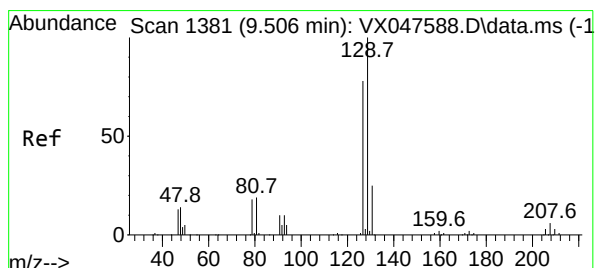
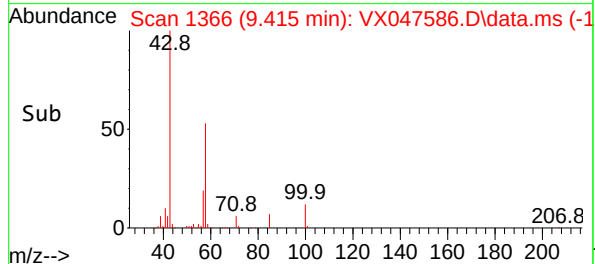
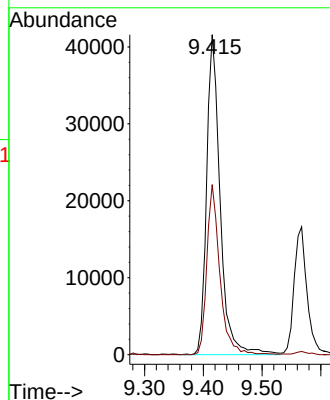
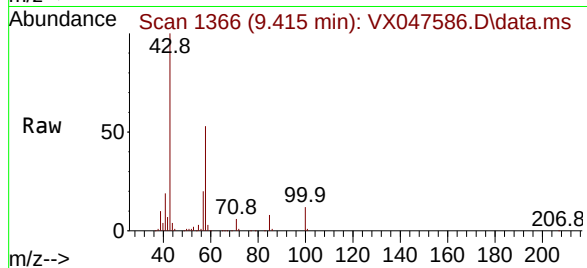
58 51.1 26.1 78.2

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

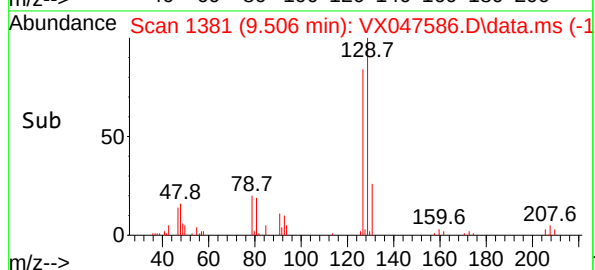
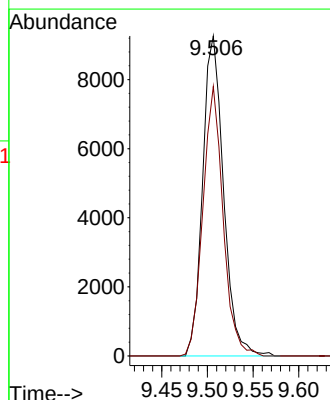
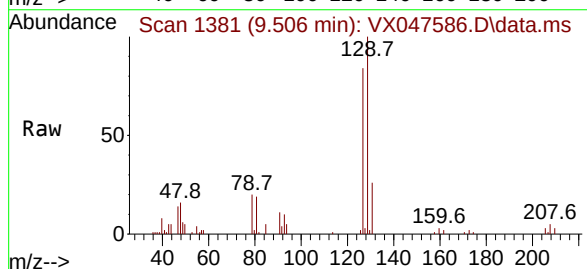
Acq: 16 Sep 2025 10:16

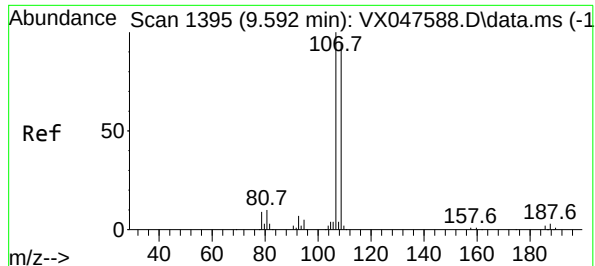
Tgt Ion:129 Resp: 14705

Ion Ratio Lower Upper

129 100

127 81.4 38.4 115.2





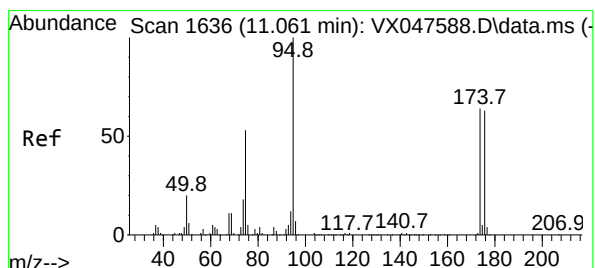
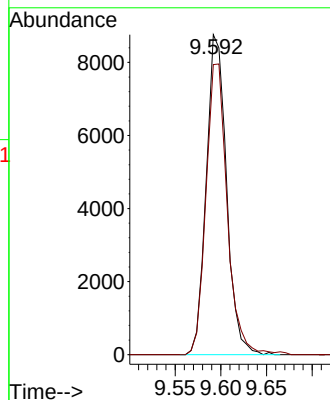
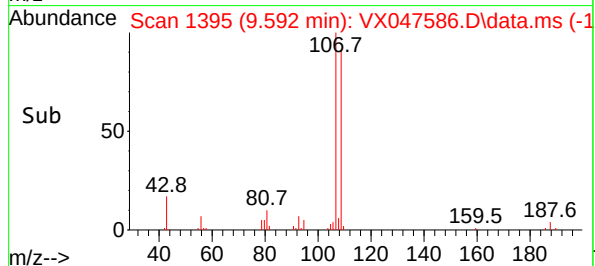
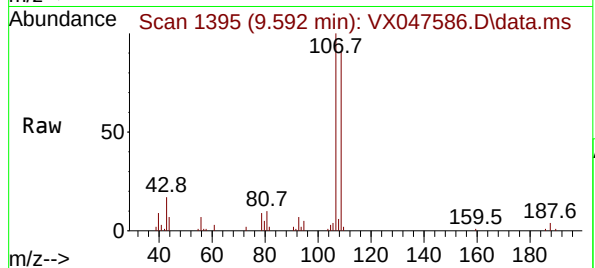
#61
1,2-Dibromoethane
Concen: 5.264 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:107 Resp: 1346
Ion Ratio Lower Upper
107 100
109 95.6 75.3 112.9

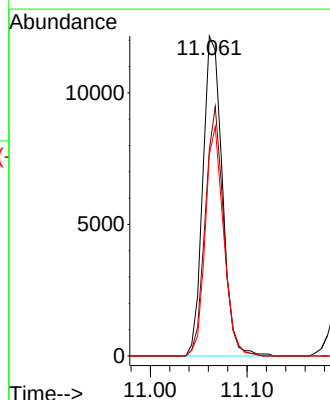
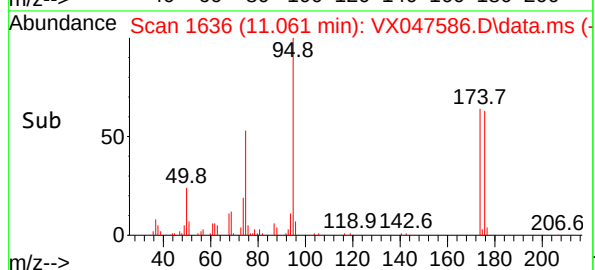
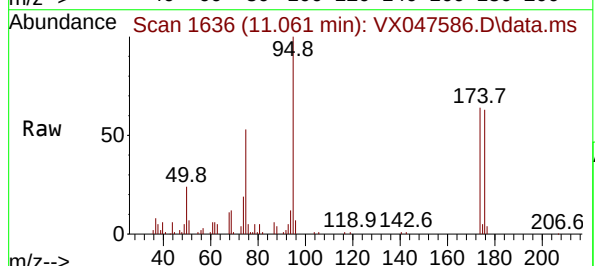
Manual Integrations
APPROVED

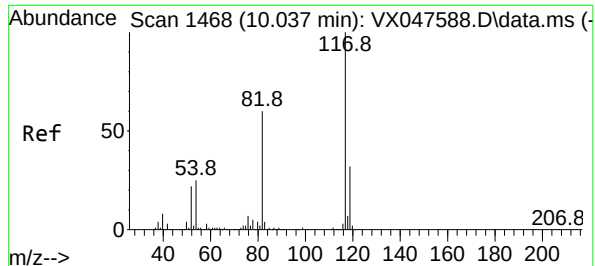
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

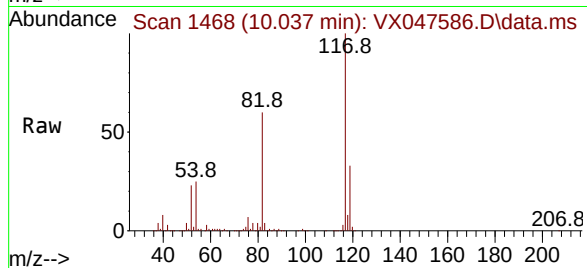
Tgt Ion: 95 Resp: 16974
Ion Ratio Lower Upper
95 100
174 74.0 0.0 141.6
176 67.9 0.0 138.4





#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

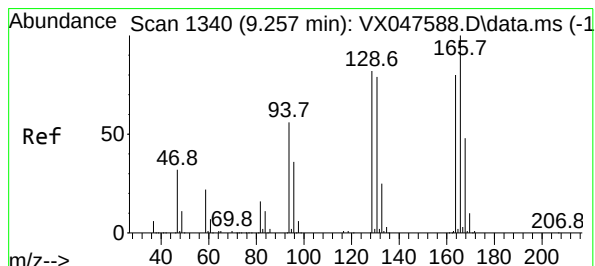
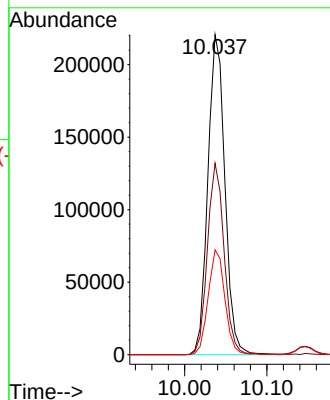
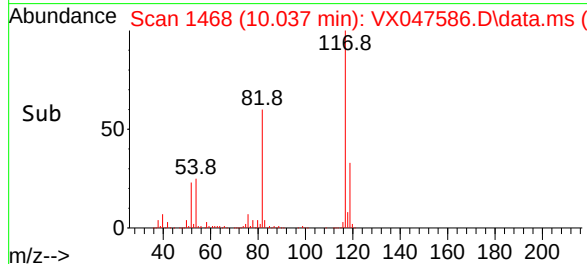
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



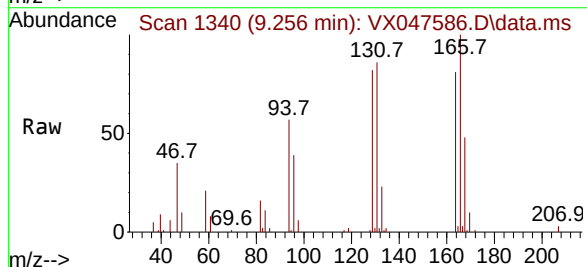
Tgt Ion:117 Resp: 31728
Ion Ratio Lower Upper
117 100
82 59.8 47.8 71.6
119 32.8 25.2 37.8

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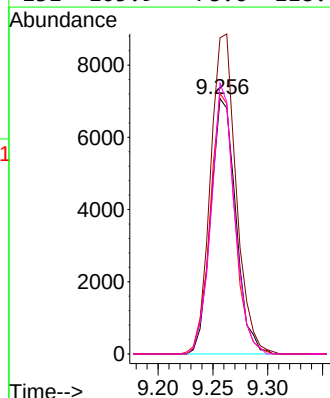
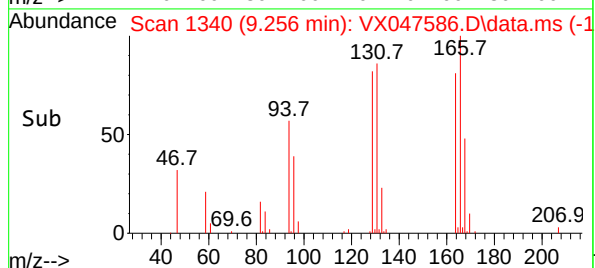
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

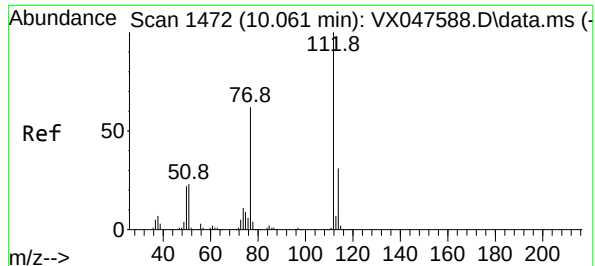


#64
Tetrachloroethene
Concen: 5.428 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16



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





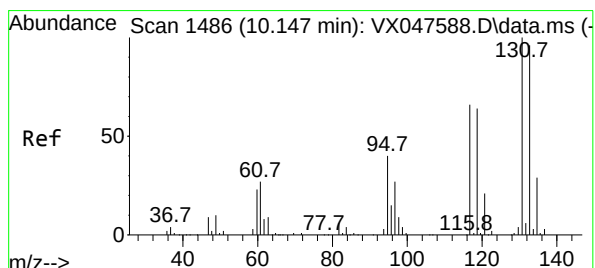
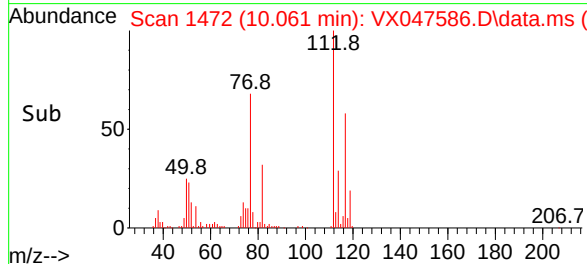
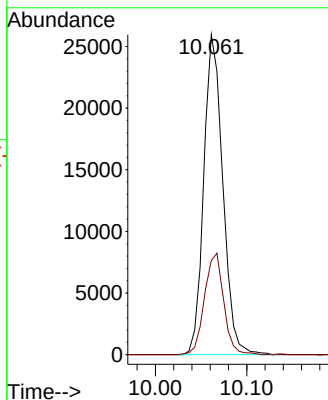
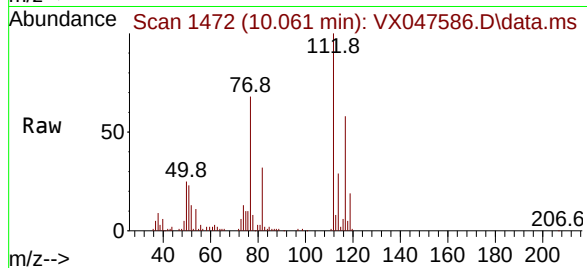
#65
Chlorobenzene
Concen: 5.203 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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

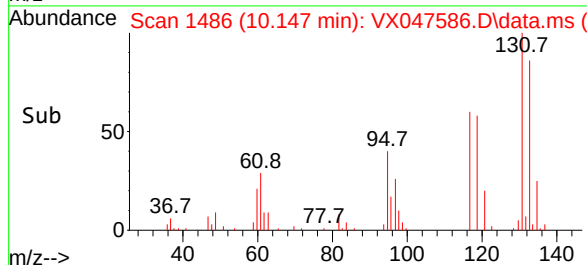
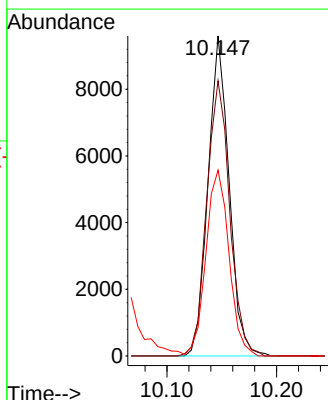
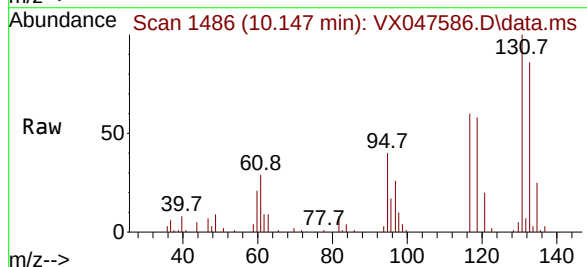
Manual Integrations
APPROVED

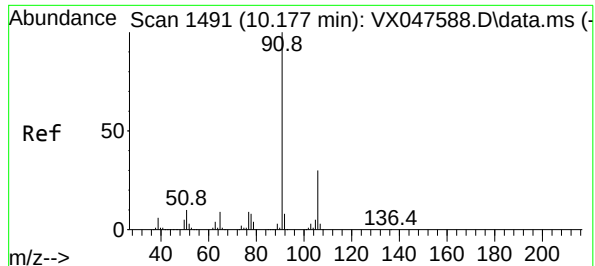
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

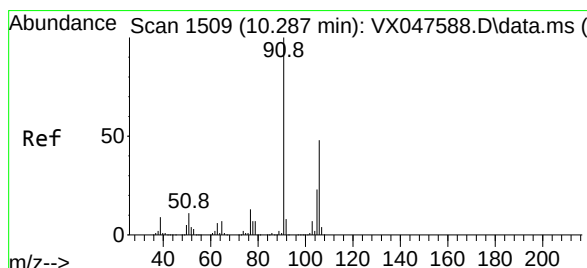
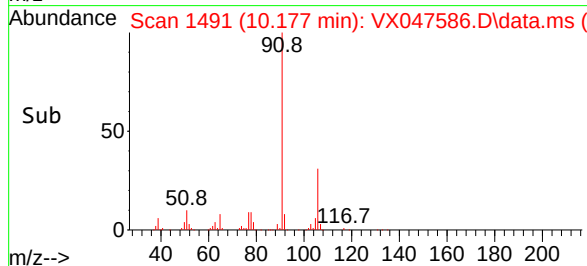
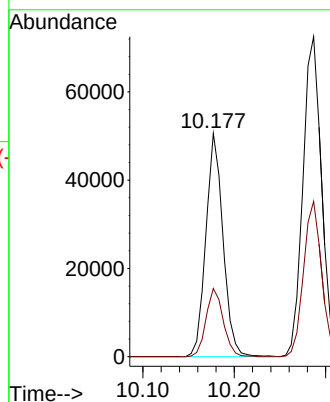
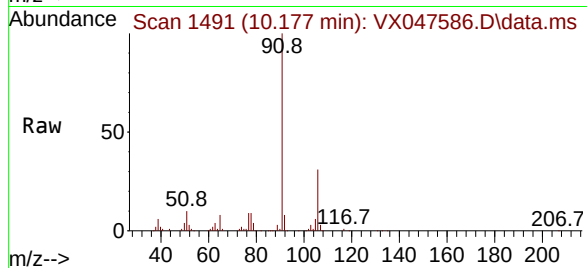
106 30.5 24.3 36.5

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

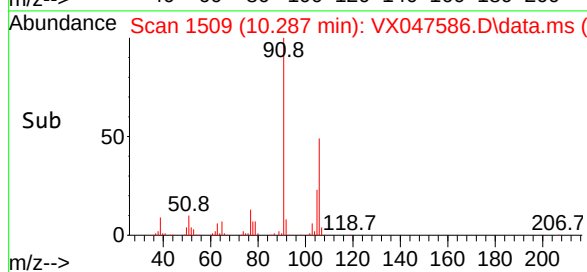
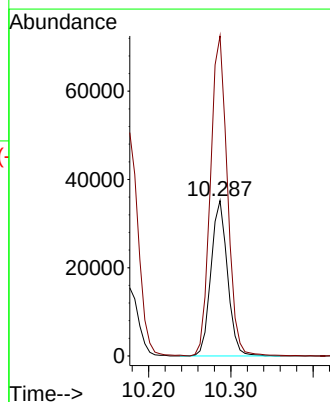
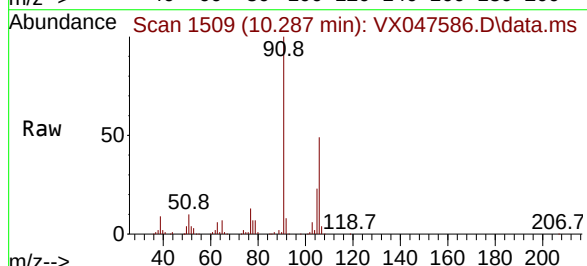
Acq: 16 Sep 2025 10:16

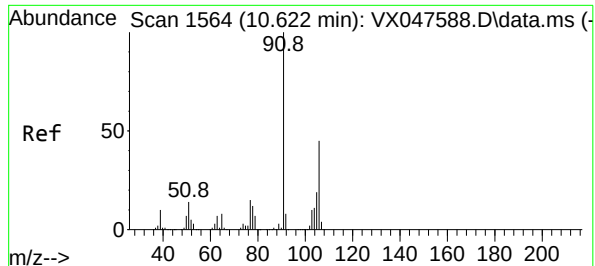
Tgt Ion:106 Resp: 49132

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

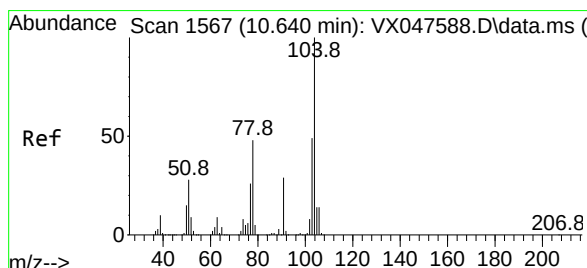
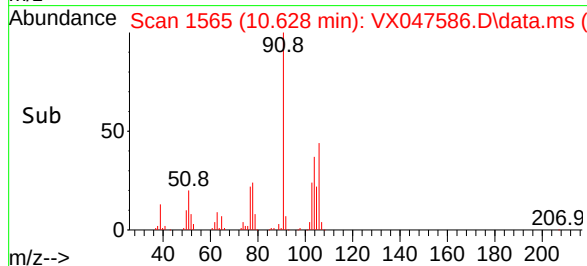
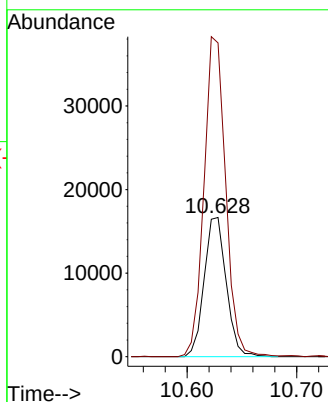
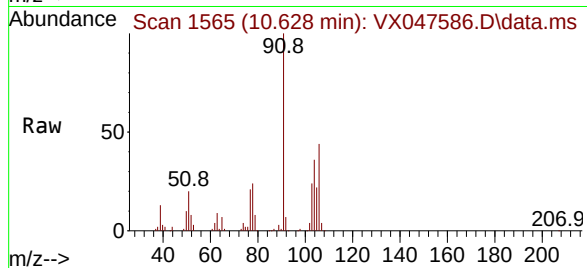
91 226.3 111.1 333.4

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

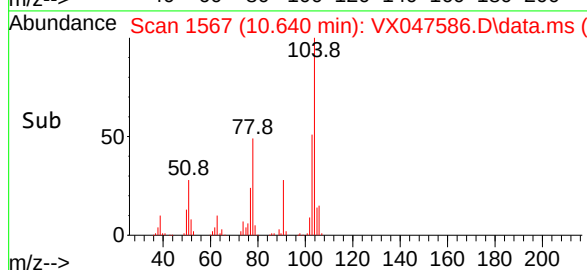
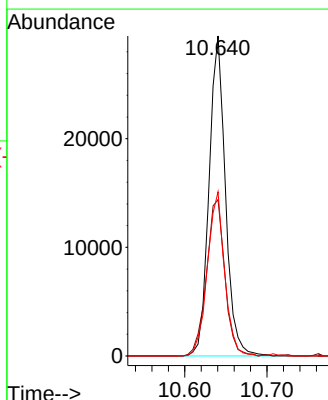
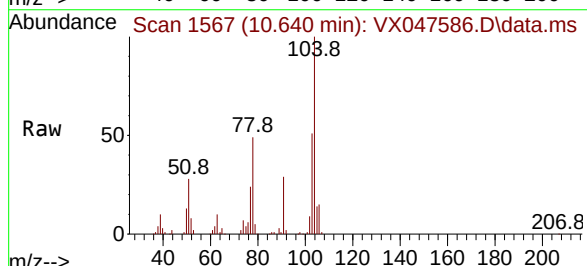
Tgt Ion:104 Resp: 40872

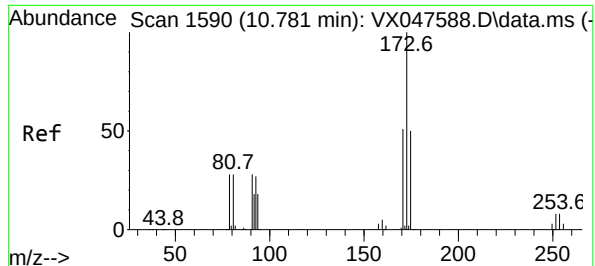
Ion Ratio Lower Upper

104 100

78 54.8 43.1 64.7

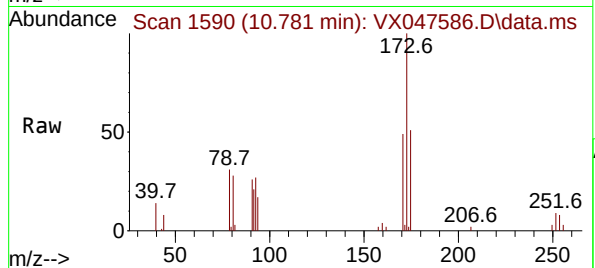
103 53.7 43.1 64.7





#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

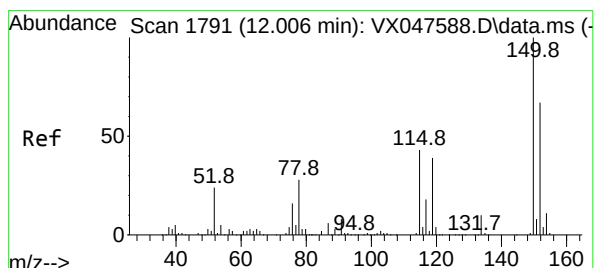
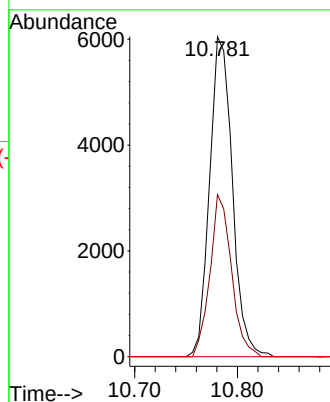
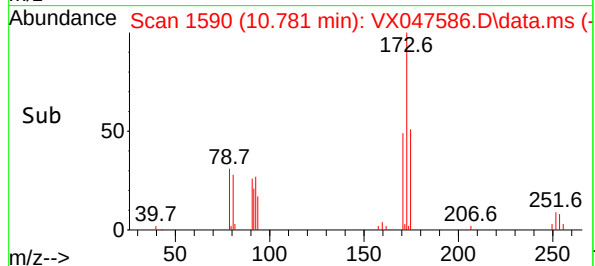
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



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

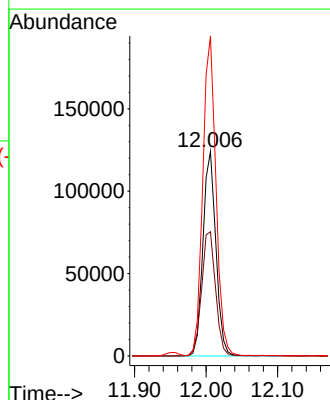
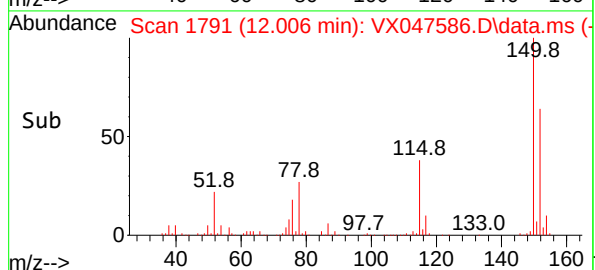
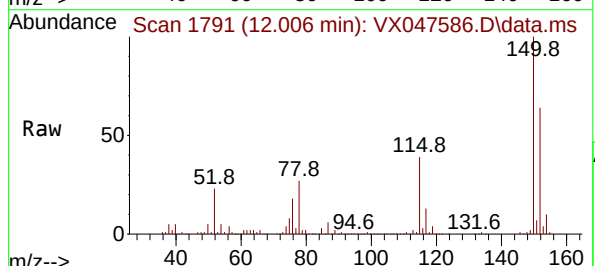
Manual Integrations
APPROVED

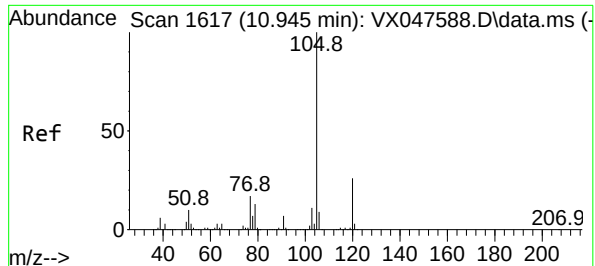
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

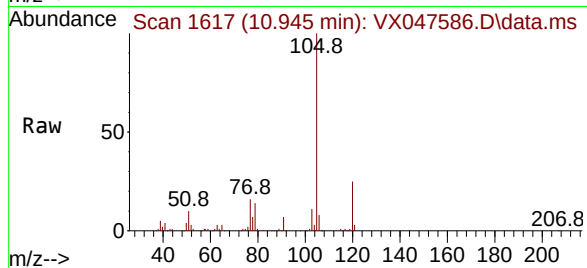
Tgt Ion:152 Resp: 156219
Ion Ratio Lower Upper
152 100
115 65.6 44.9 134.5
150 157.8 0.0 352.0





#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

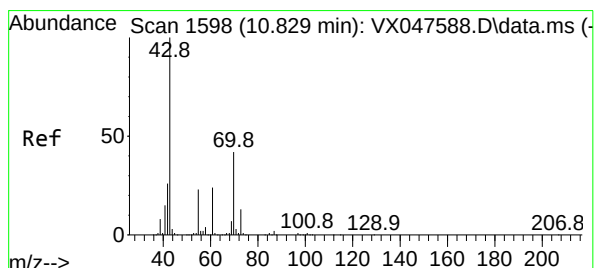
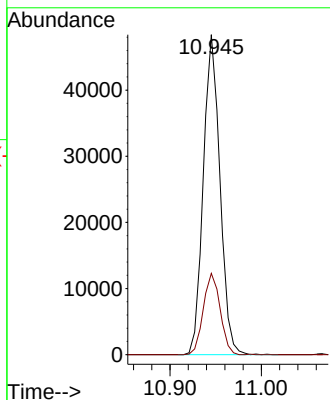
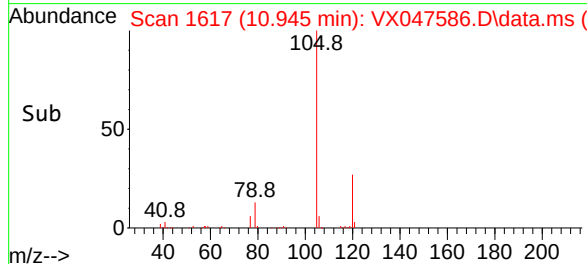
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



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

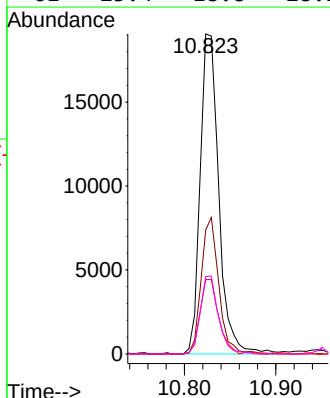
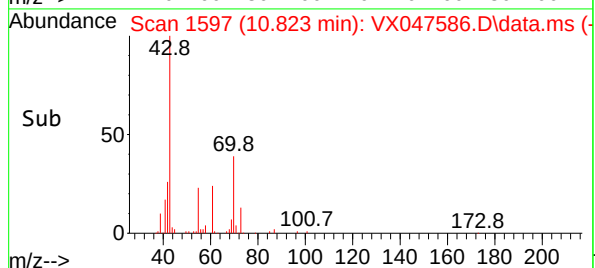
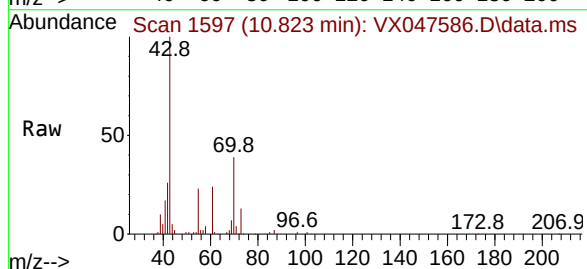
Manual Integrations
APPROVED

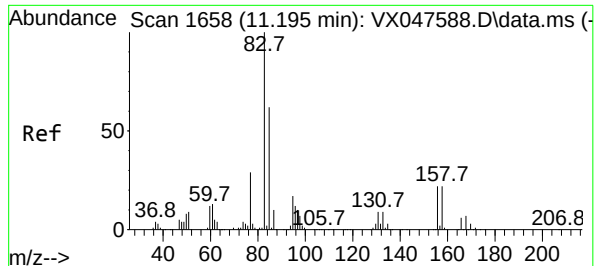
Reviewed By : John Carlone 09/17/2025
Supervised By : Mahesh Dadoda 09/18/2025



#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

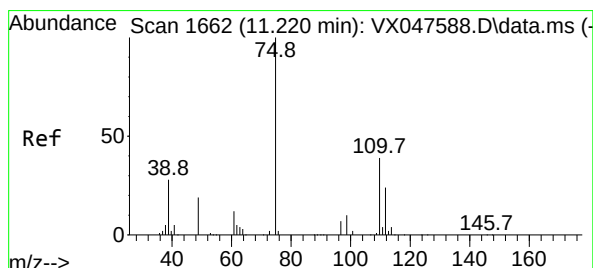
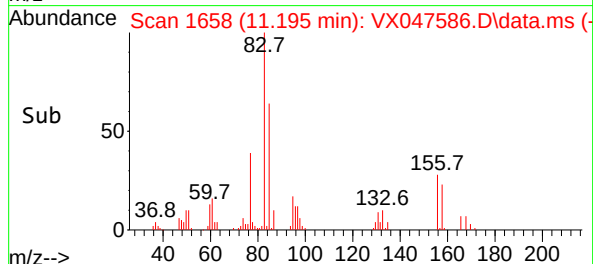
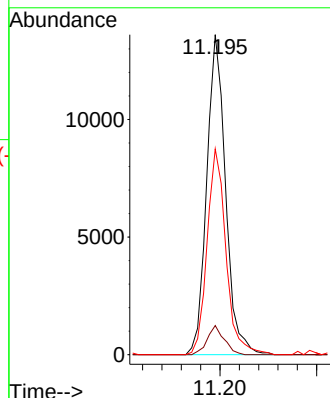
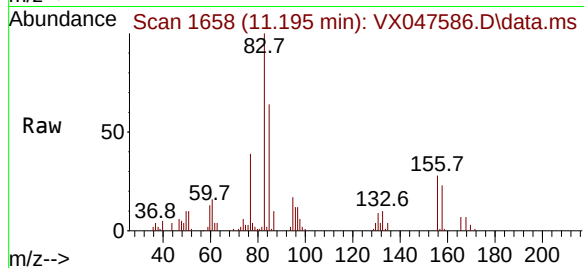
Tgt Ion:	83	Resp:	1846
Ion	Ratio	Lower	Upper
83	100		
131	8.2	5.0	14.9
85	64.4	31.6	95.0

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

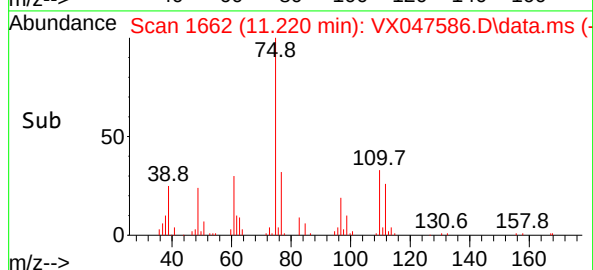
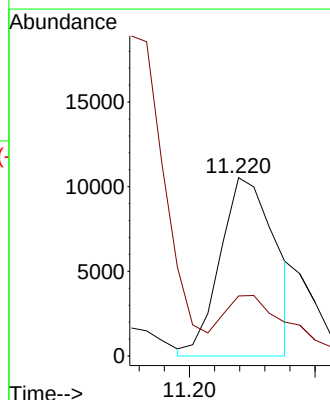
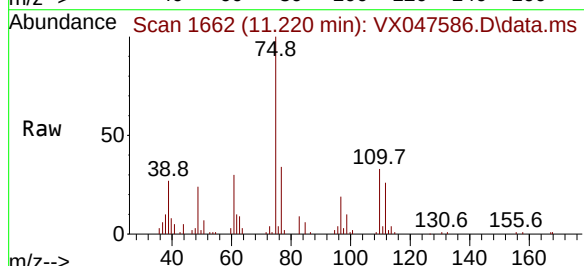
RT: 11.220 min Scan# 1662

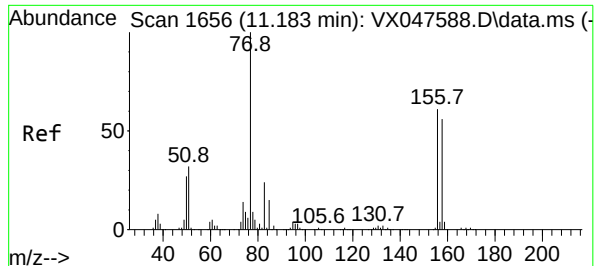
Delta R.T. -0.000 min

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 :

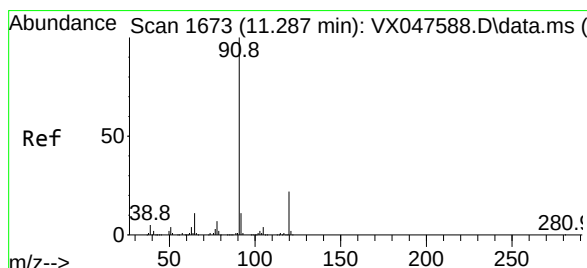
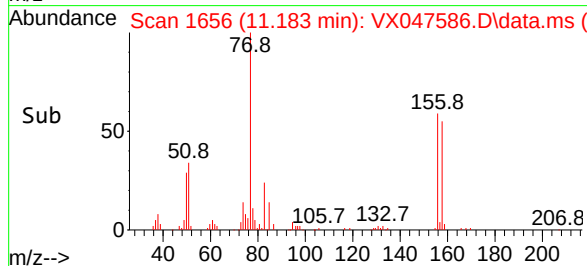
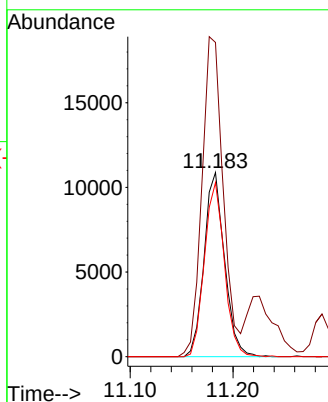
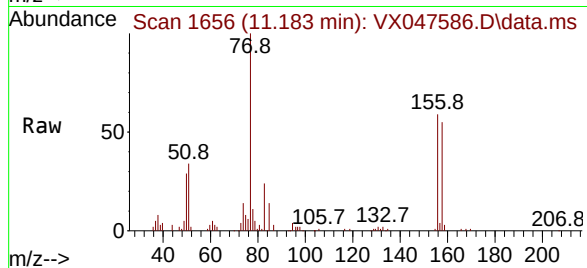
VSTDIC005

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

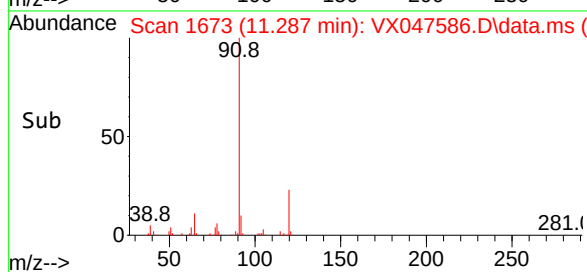
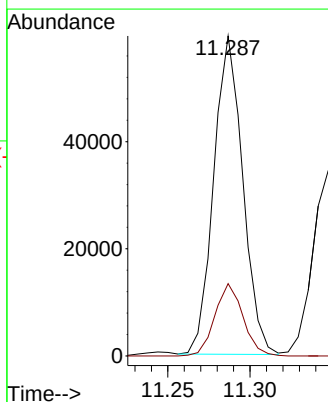
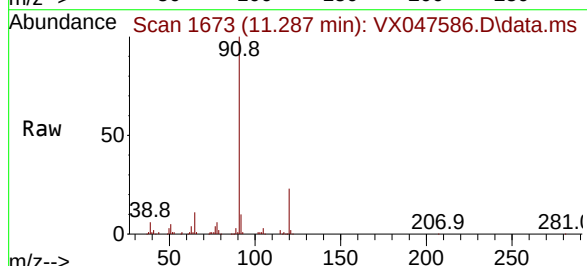
RT: 11.287 min Scan# 1673

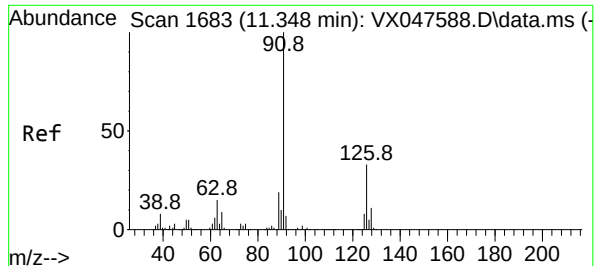
Delta R.T. -0.000 min

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

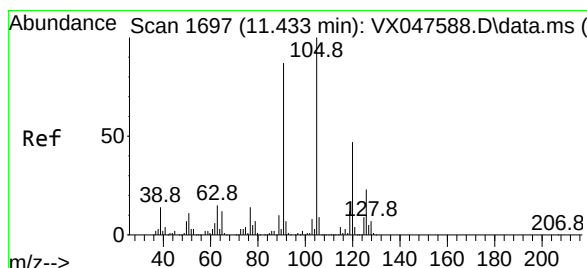
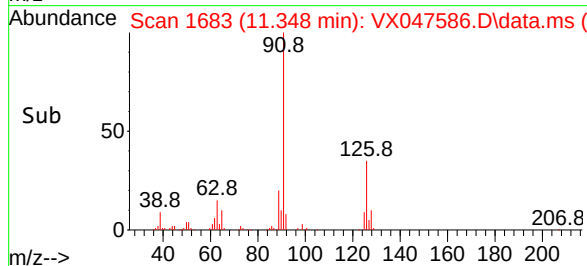
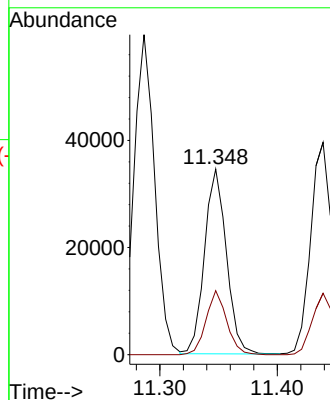
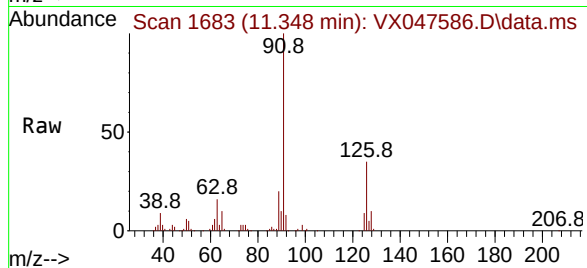
126 32.7 16.1 48.3

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

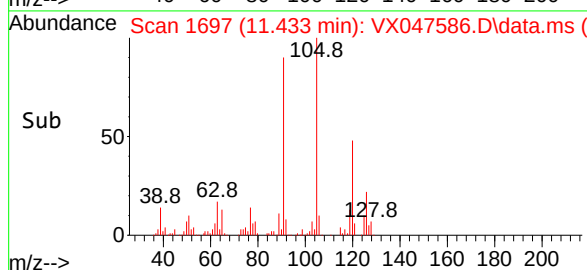
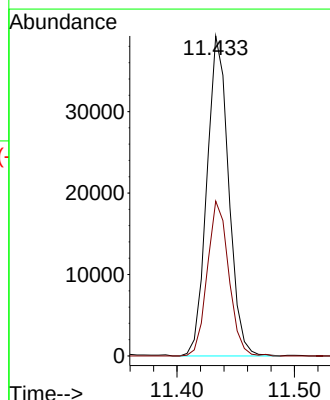
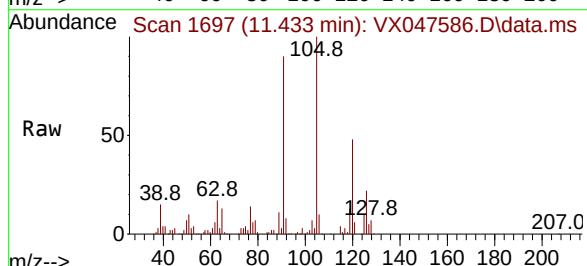
Acq: 16 Sep 2025 10:16

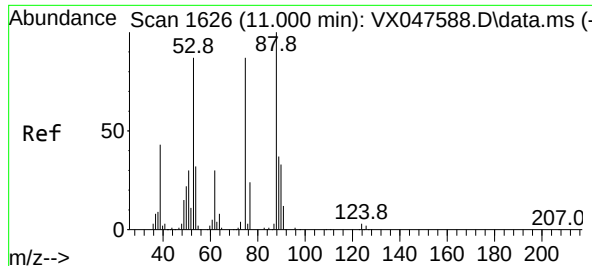
Tgt Ion:105 Resp: 50535

Ion Ratio Lower Upper

105 100

120 47.7 23.6 70.8





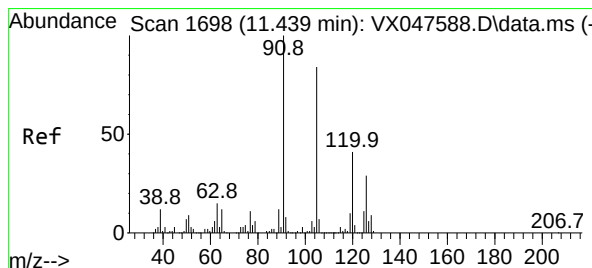
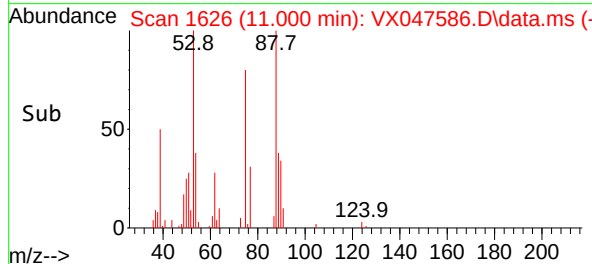
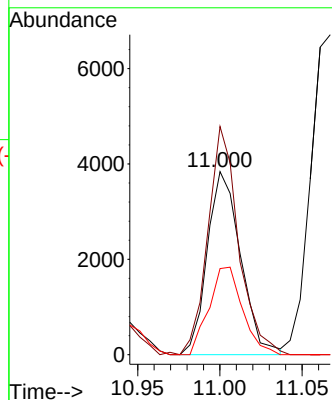
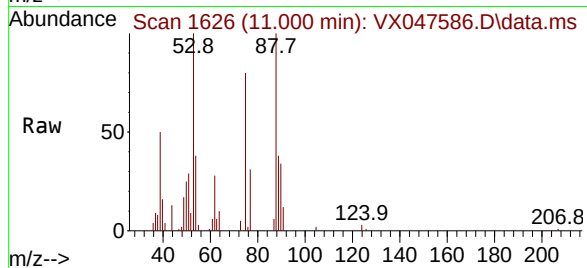
#81
trans-1,4-Dichloro-2-butene
Concen: 4.364 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

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

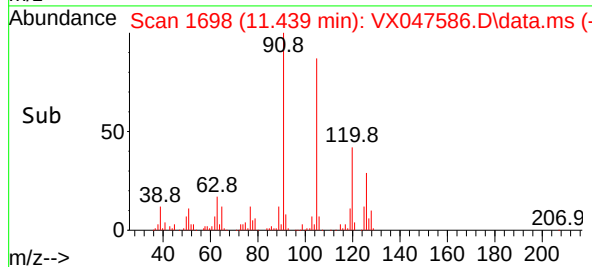
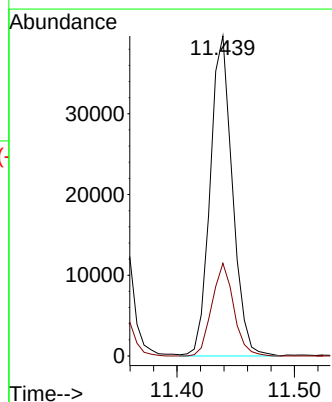
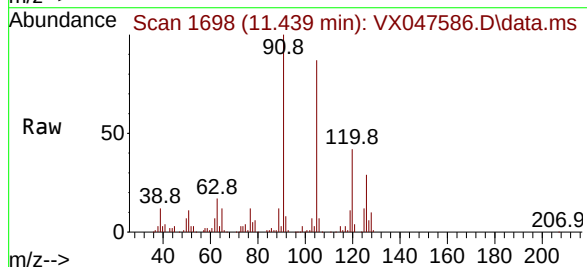
Manual Integrations
APPROVED

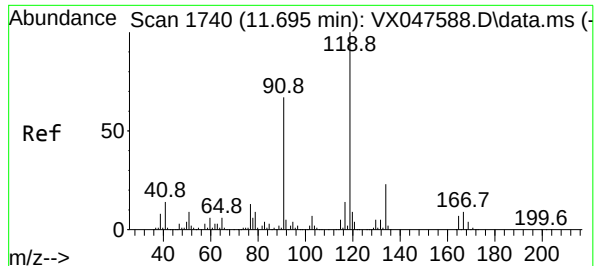
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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# 11

Delta R.T. -0.000 min

Lab File: VX047586.D

Acq: 16 Sep 2025 10:16

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

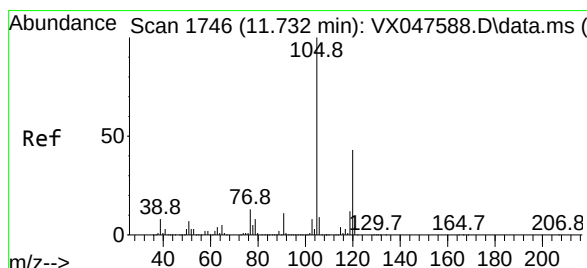
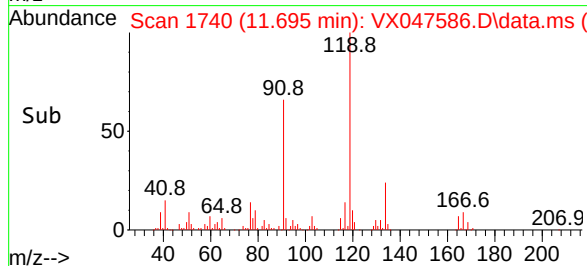
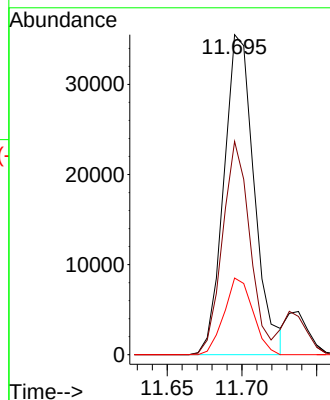
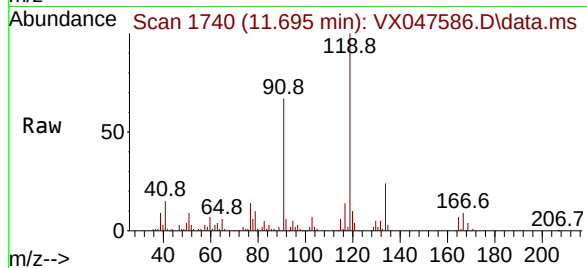
Tgt Ion	Ratio	Lower	Upper
119	100		
91	60.1	29.6	88.8
134	22.7	11.0	33.0

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

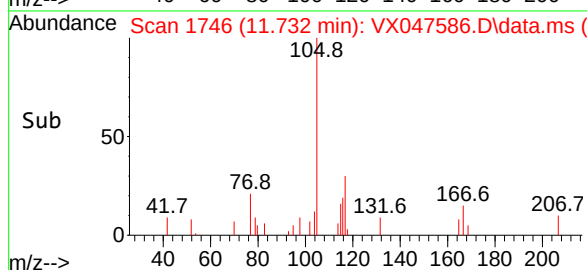
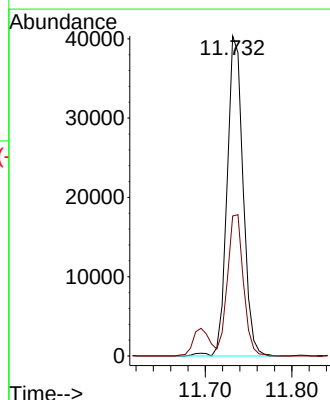
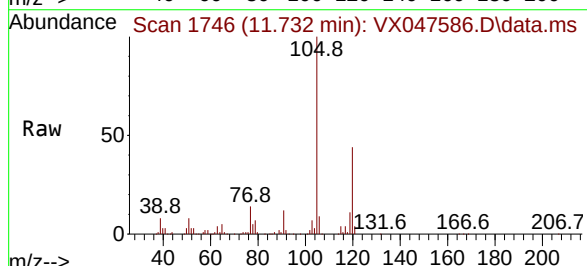
RT: 11.732 min Scan# 1746

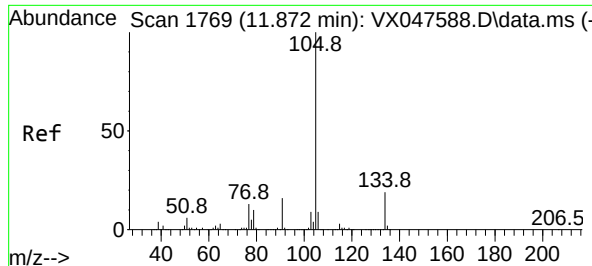
Delta R.T. -0.000 min

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

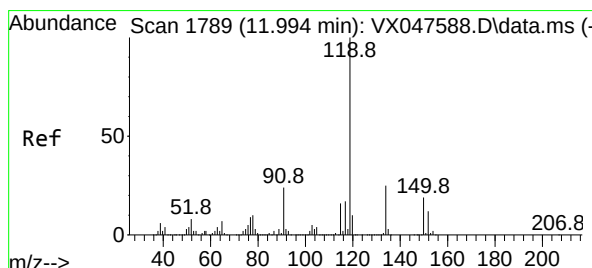
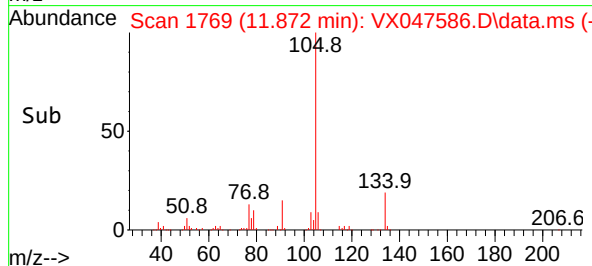
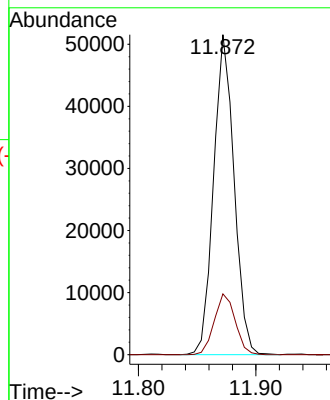
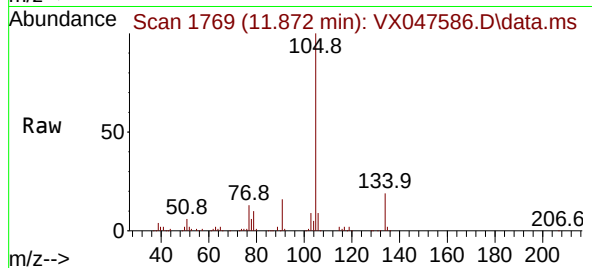
134 19.4 9.8 29.5

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

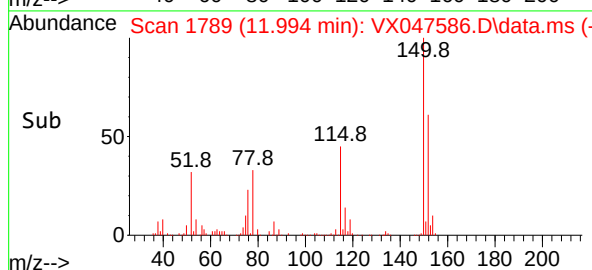
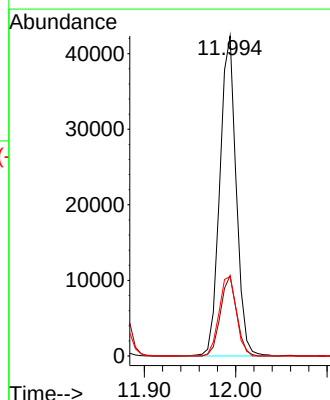
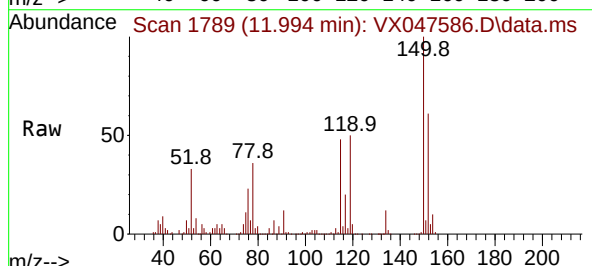
Tgt Ion:119 Resp: 52674

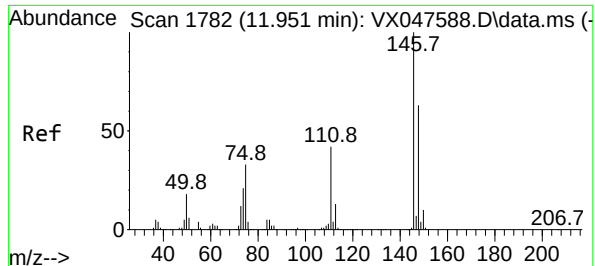
Ion Ratio Lower Upper

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 :

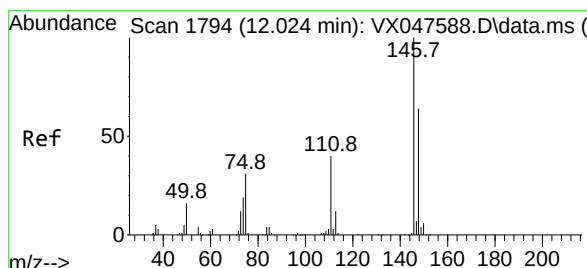
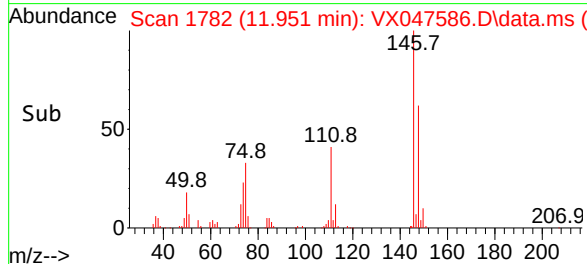
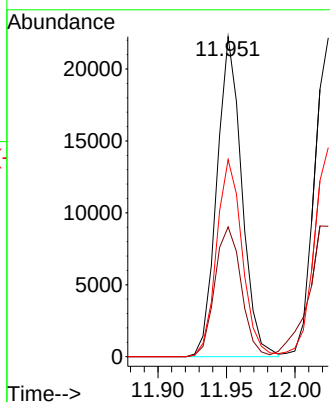
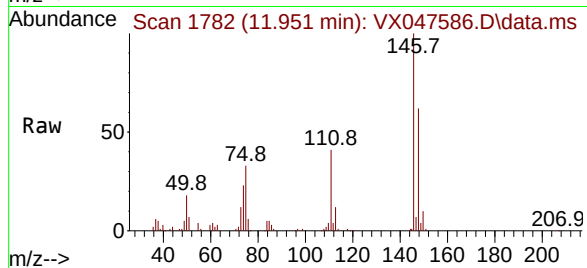
VSTDIC005

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

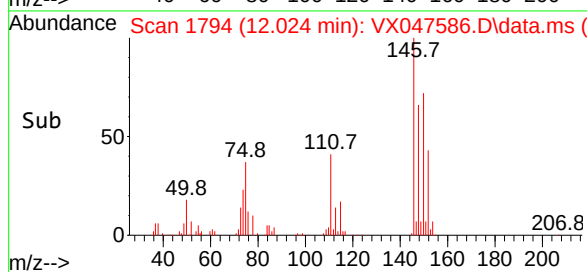
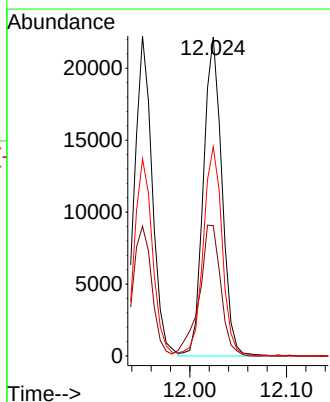
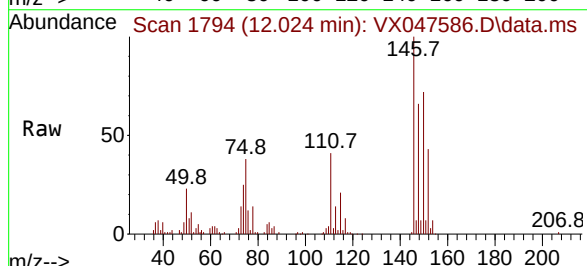
RT: 12.024 min Scan# 1794

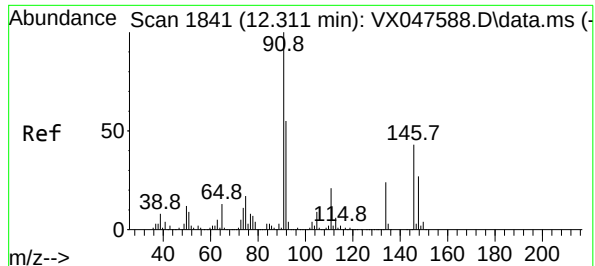
Delta R.T. -0.000 min

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 :

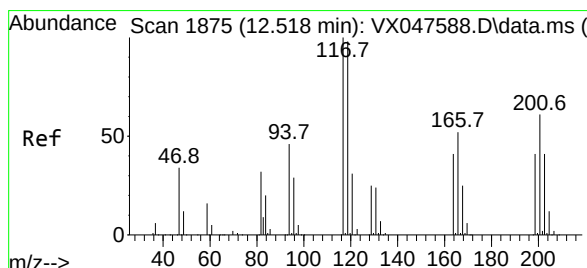
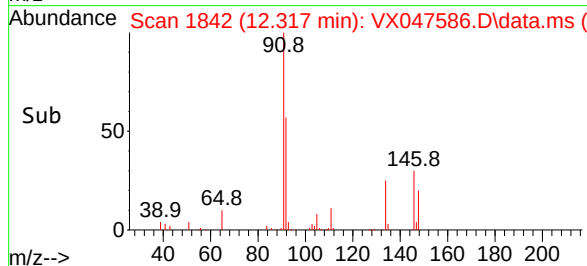
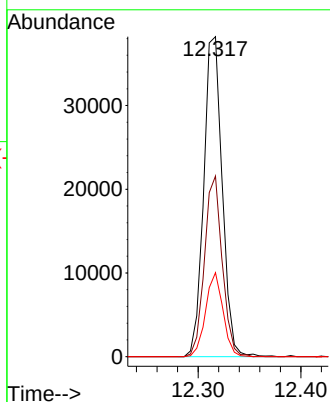
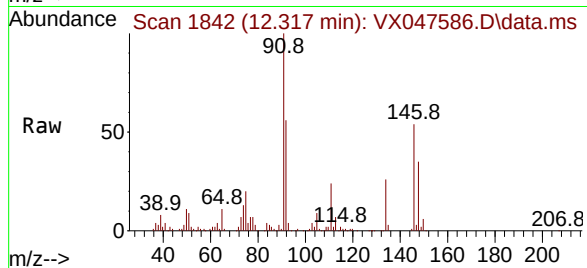
VSTDIC005

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

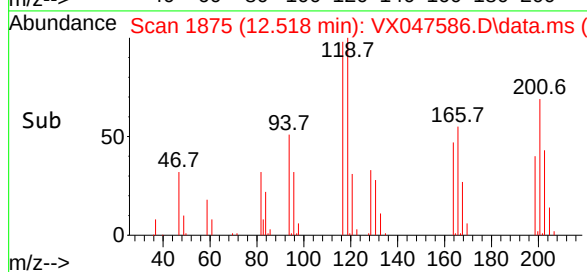
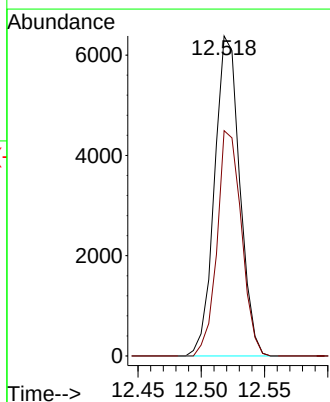
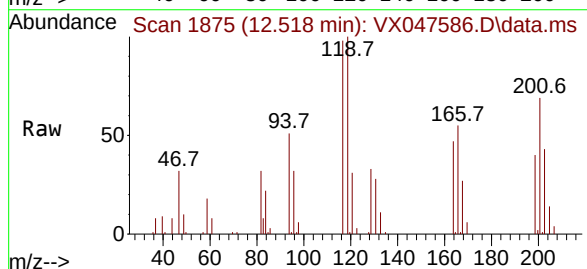
RT: 12.518 min Scan# 1875

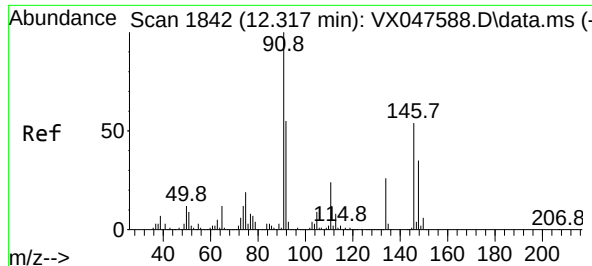
Delta R.T. -0.000 min

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





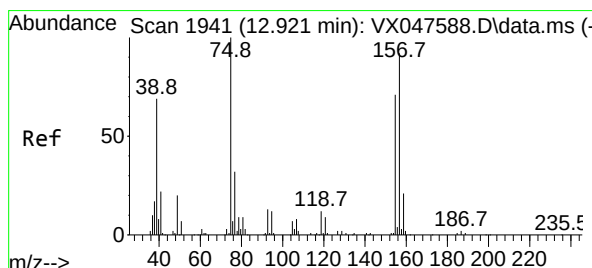
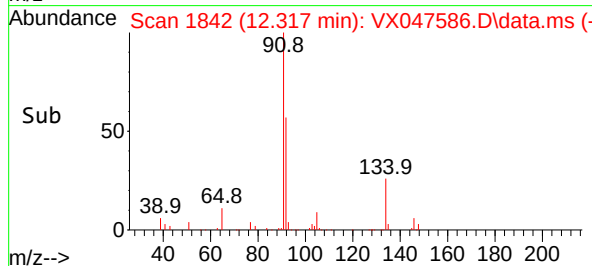
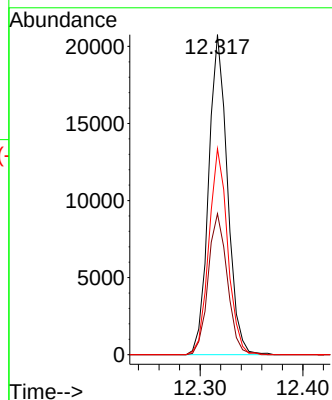
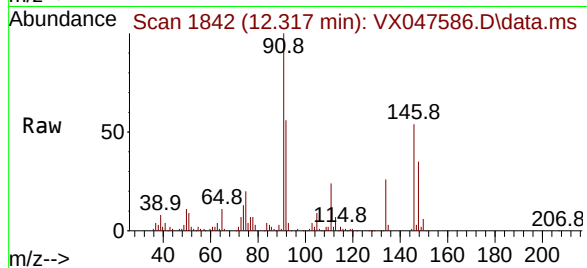
#91
1,2-Dichlorobenzene
Concen: 5.102 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047586.D
Acq: 16 Sep 2025 10:16

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:146 Resp: 26409
Ion Ratio Lower Upper
146 100
111 44.9 22.2 66.6
148 64.2 31.8 95.4

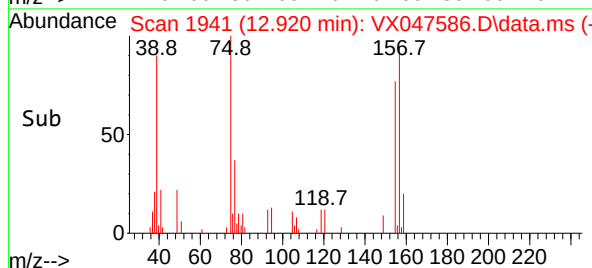
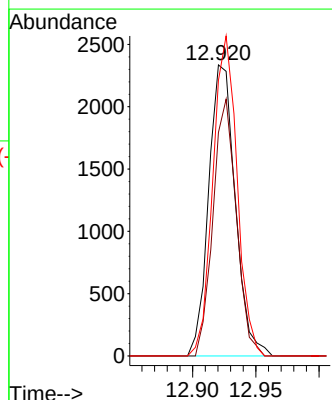
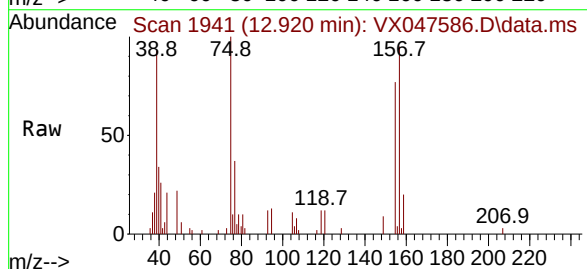
Manual Integrations
APPROVED

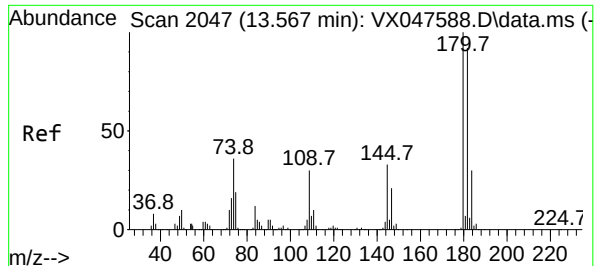
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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: 75 Resp: 3412
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 :

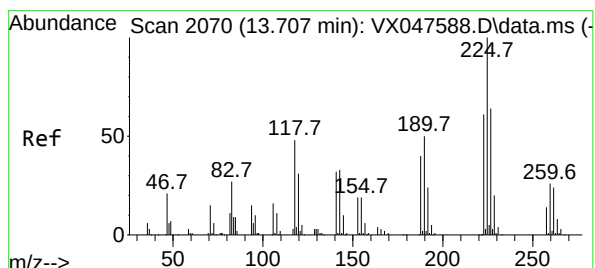
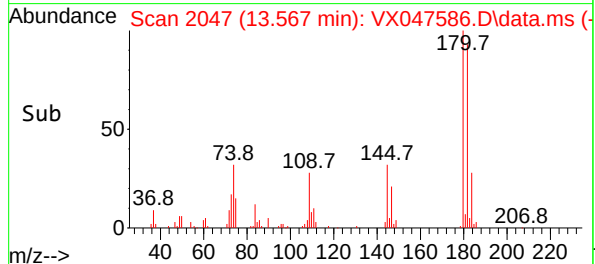
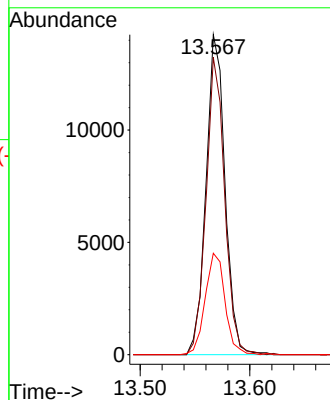
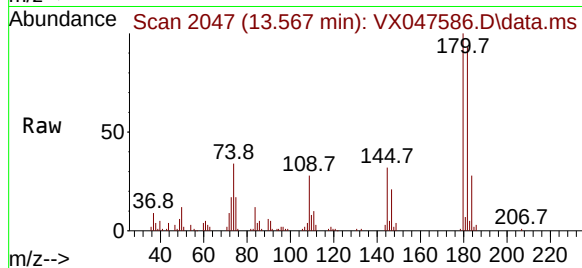
VSTDIC005

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

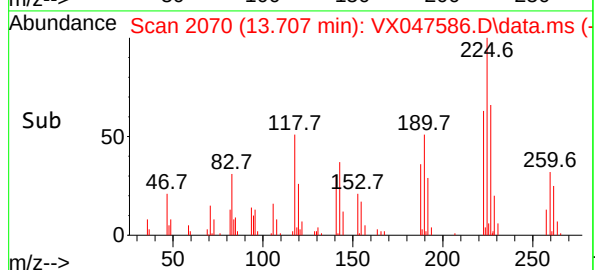
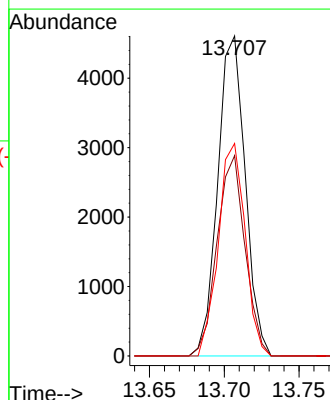
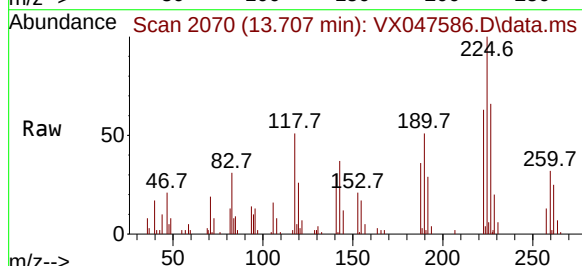
RT: 13.707 min Scan# 2070

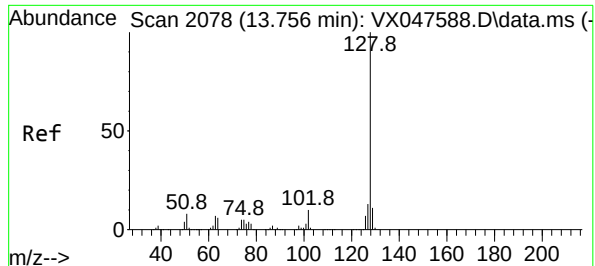
Delta R.T. -0.000 min

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 :

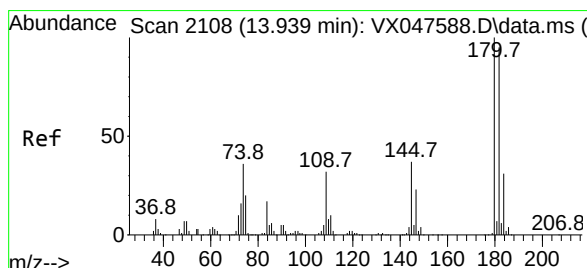
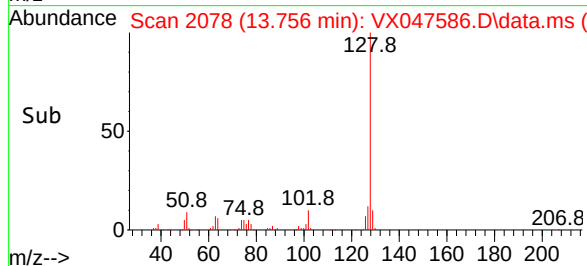
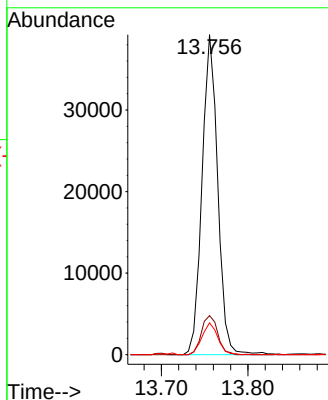
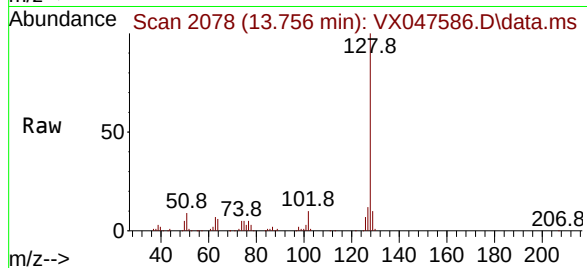
VSTDIC005

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

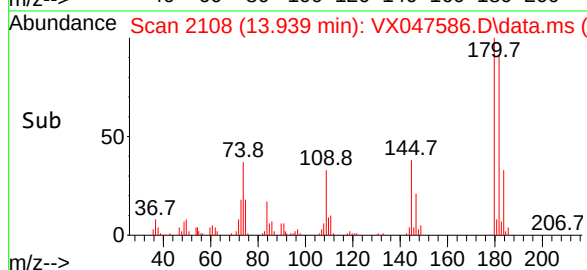
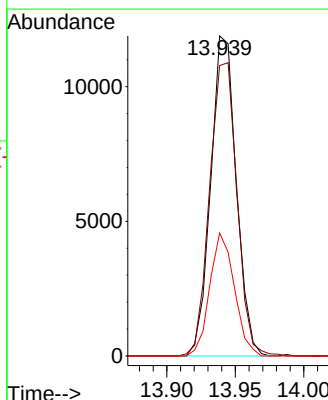
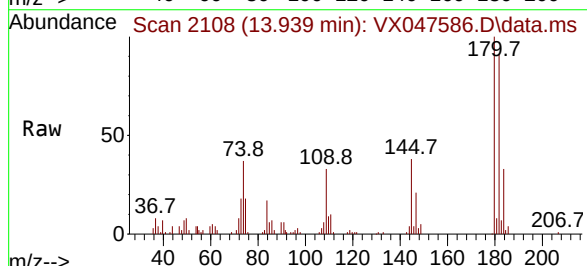
RT: 13.939 min Scan# 2108

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

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)

(#) = 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

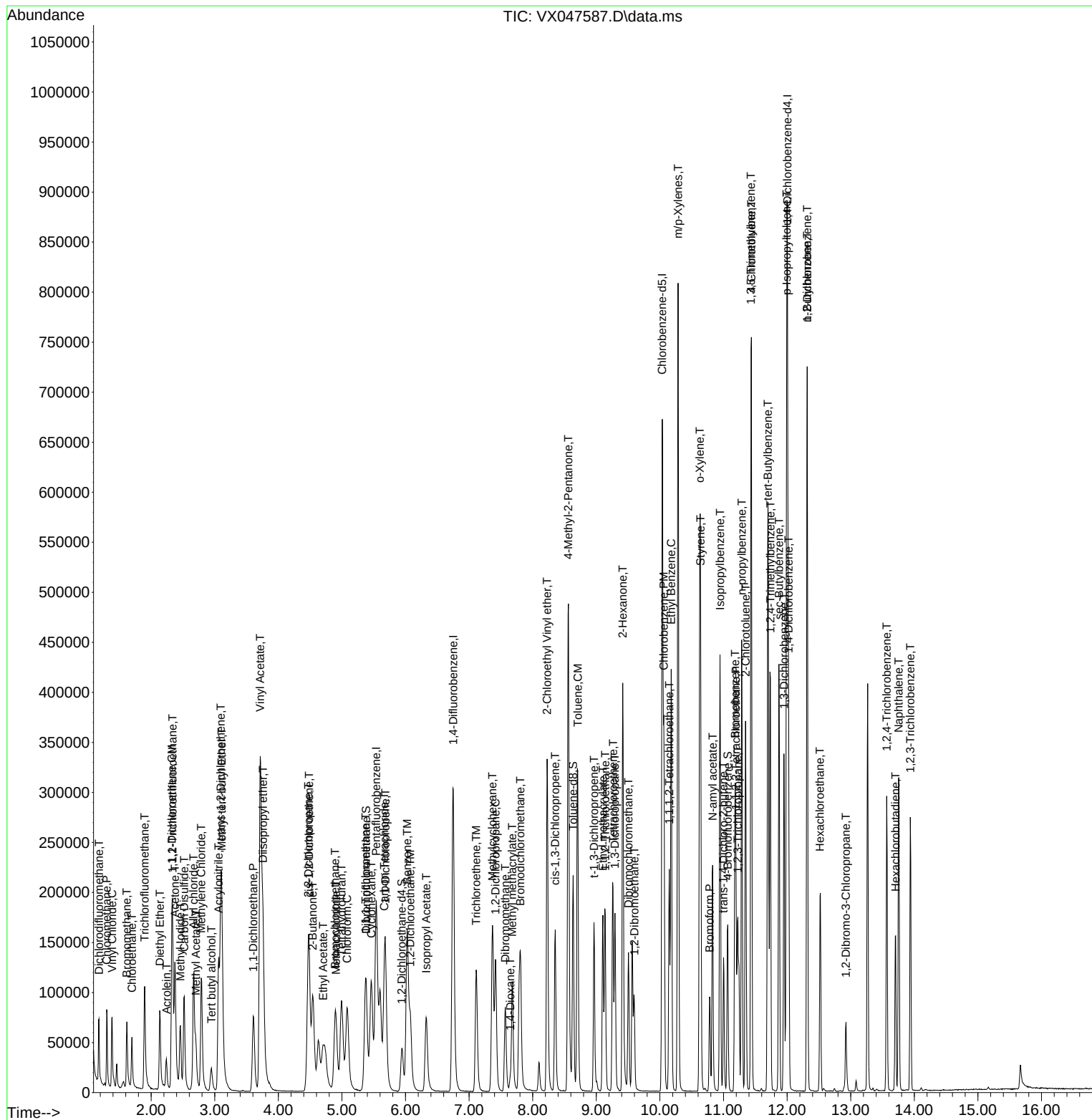
Quant Time: Sep 17 06:12:03 2025

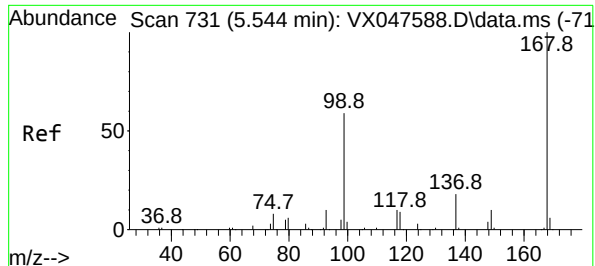
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M

Quant Title : SW846 8260

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

Response via : Initial Calibration





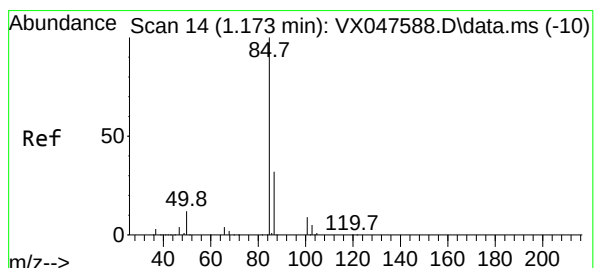
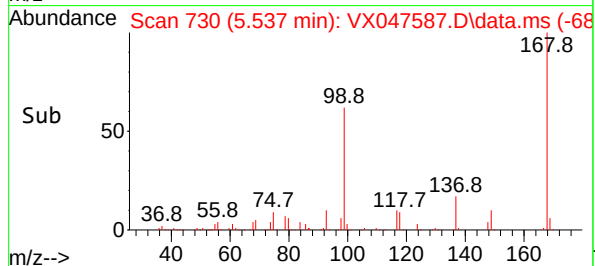
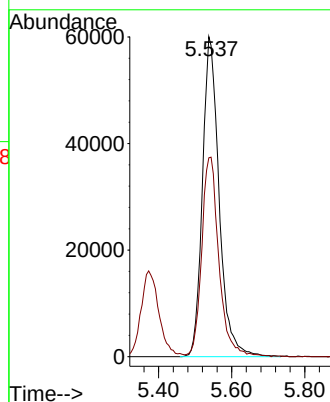
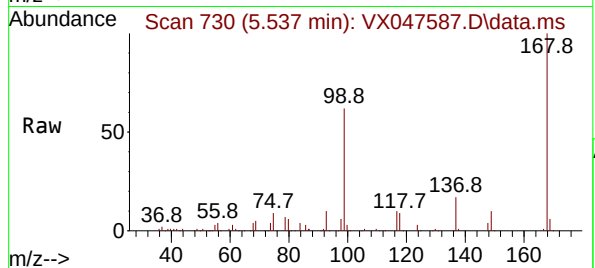
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.007 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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

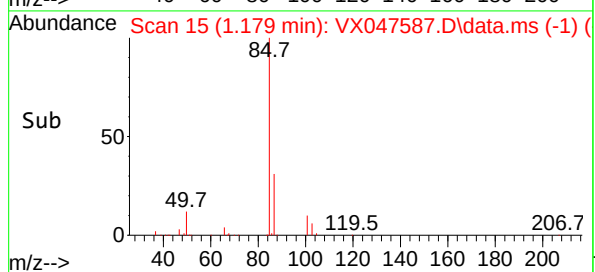
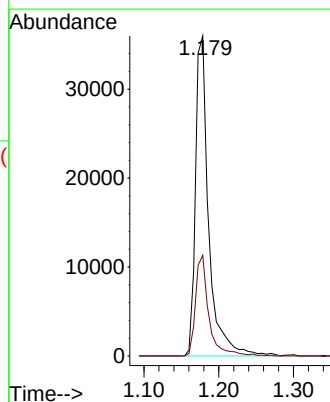
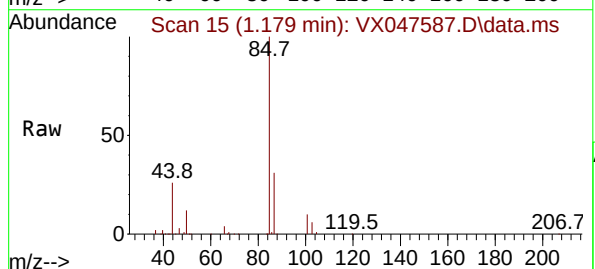
Manual Integrations
APPROVED

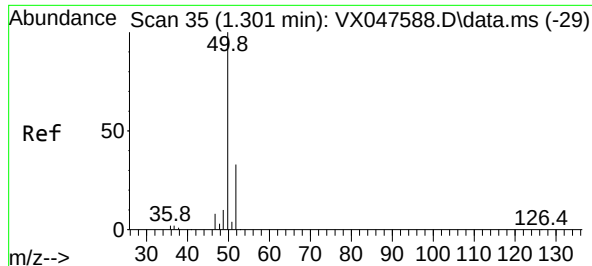
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





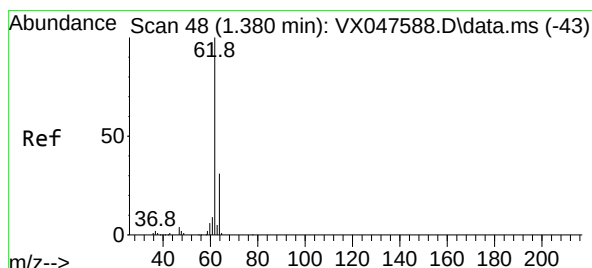
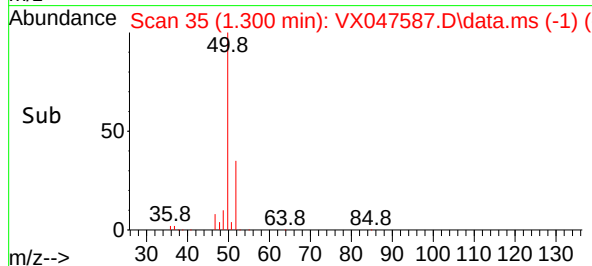
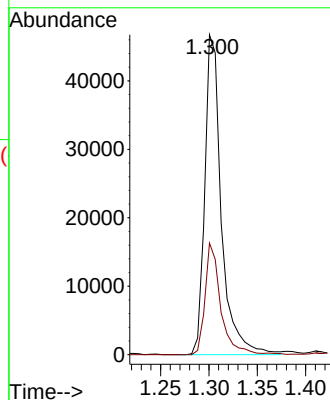
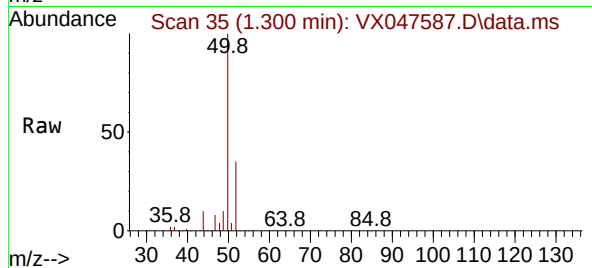
#3
Chloromethane
Concen: 21.716 ug/l
RT: 1.300 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 5602
Ion Ratio Lower Upper
50 100
52 34.9 26.1 39.1

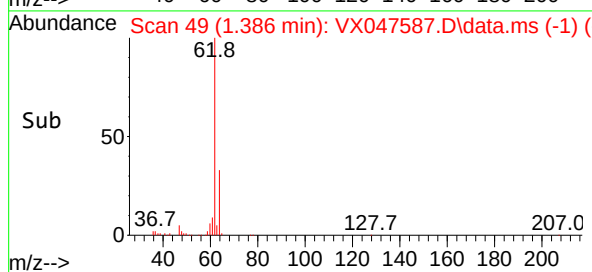
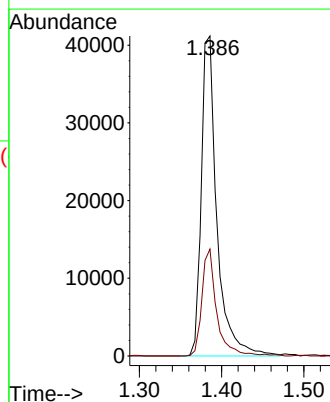
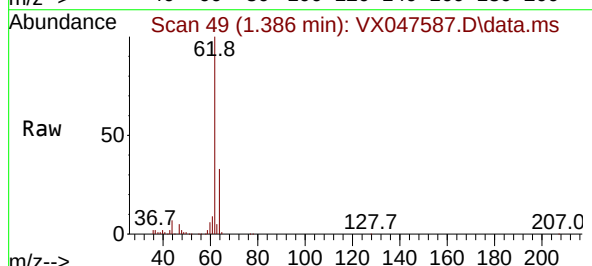
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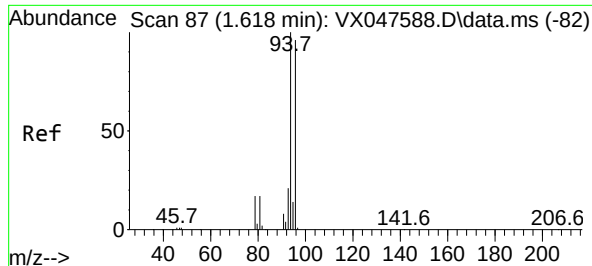
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





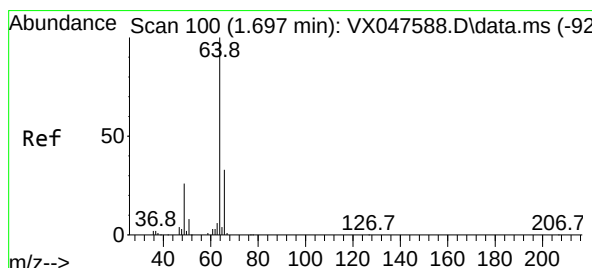
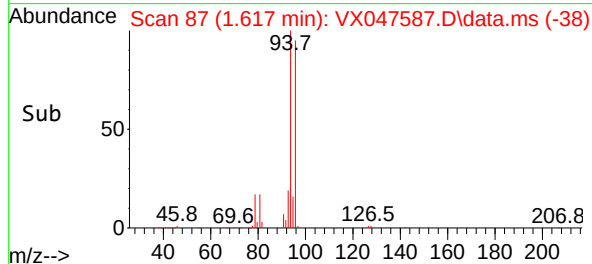
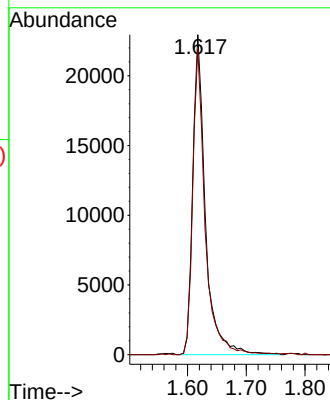
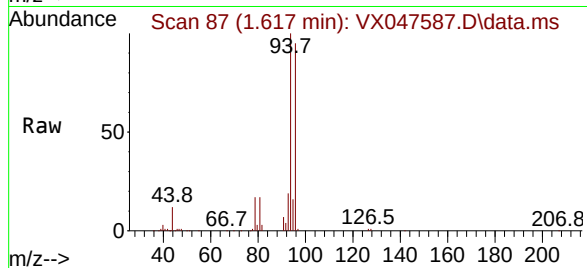
#5
Bromomethane
Concen: 21.353 ug/l
RT: 1.617 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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

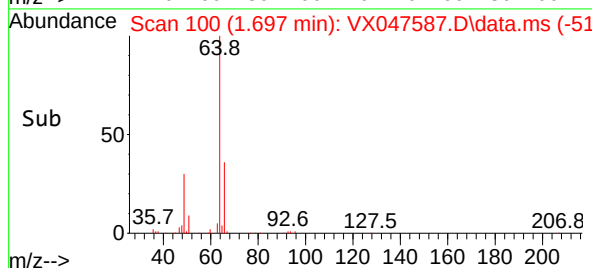
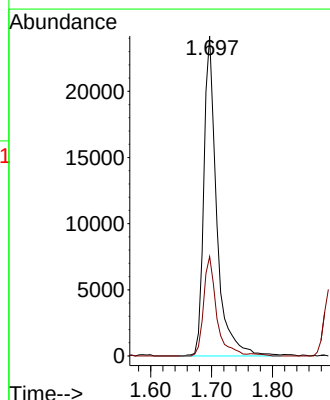
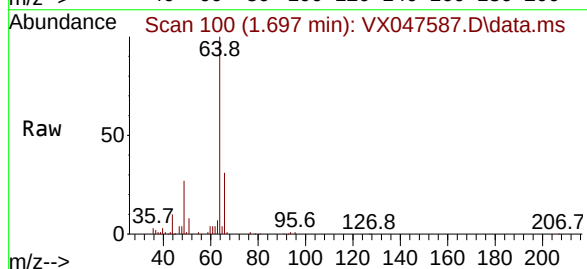
Manual Integrations
APPROVED

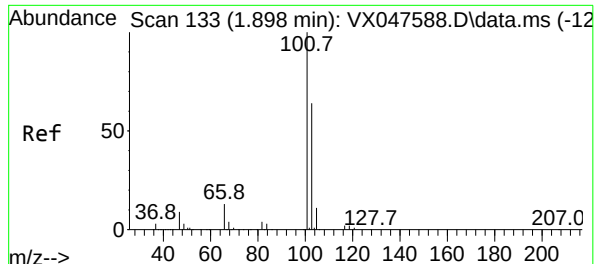
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





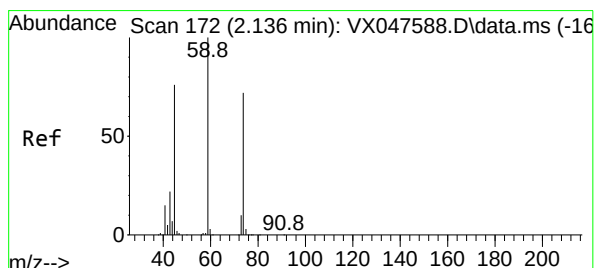
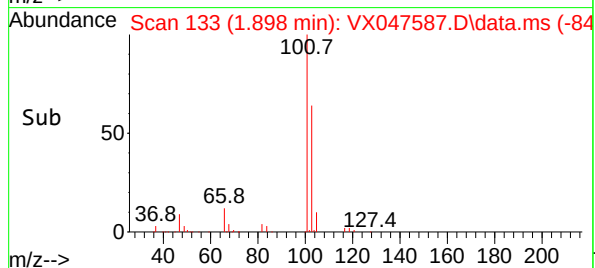
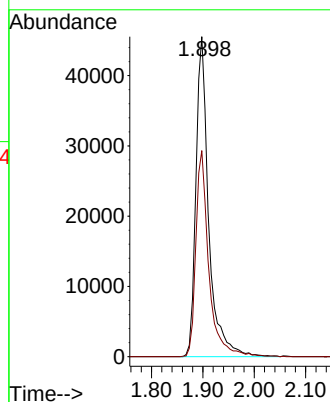
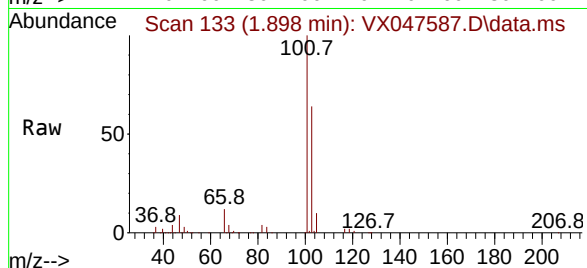
#7
Trichlorofluoromethane
Concen: 20.980 ug/l
RT: 1.898 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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

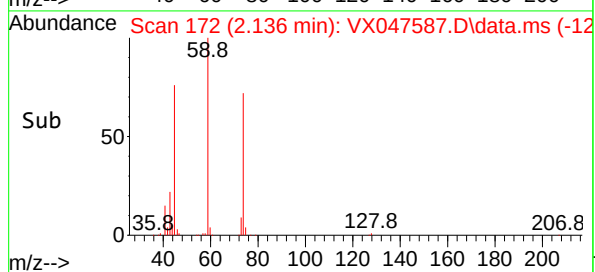
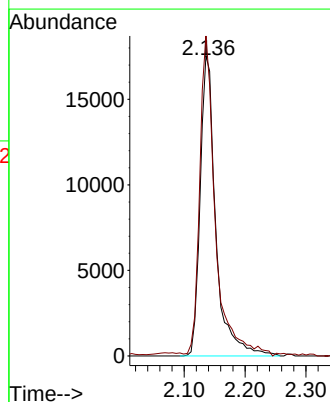
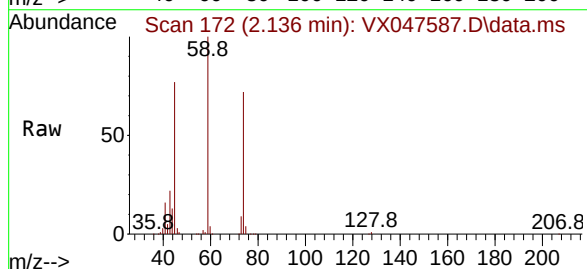
Manual Integrations
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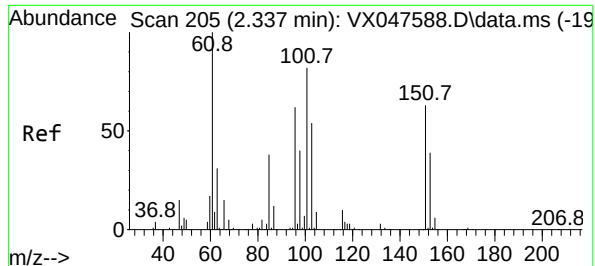
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

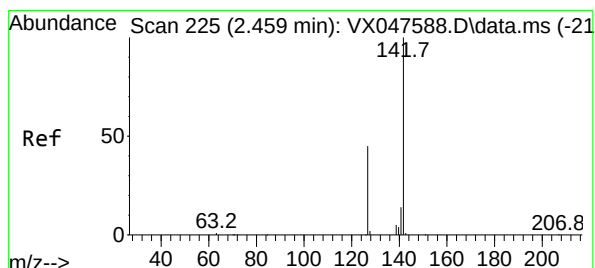
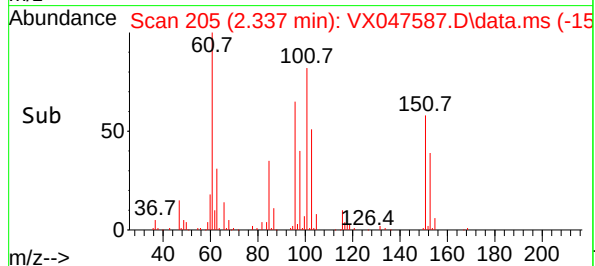
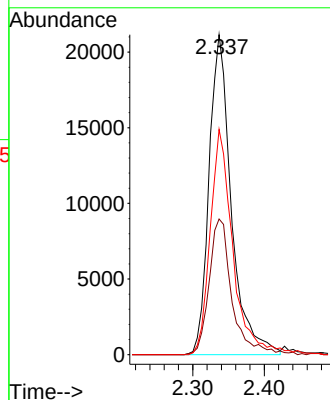
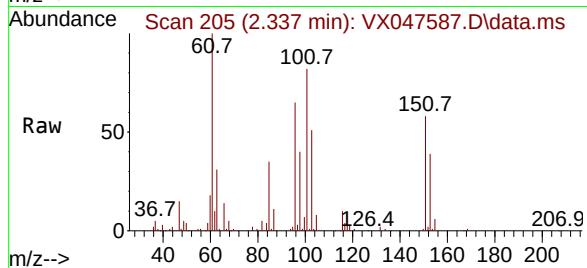
VSTDICC020

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

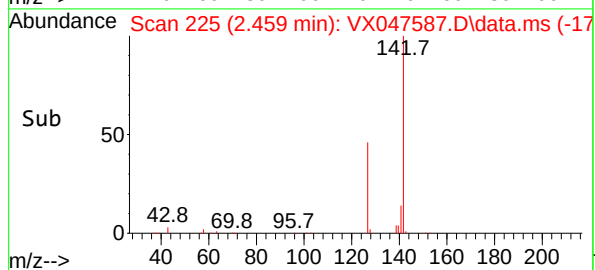
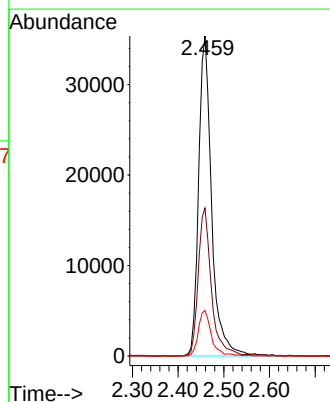
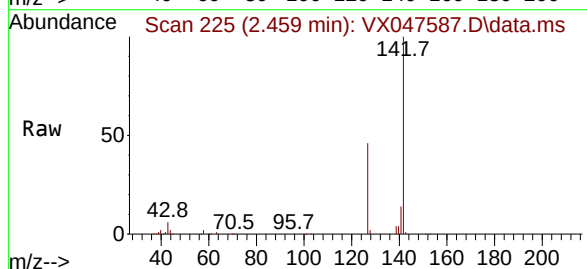
RT: 2.459 min Scan# 225

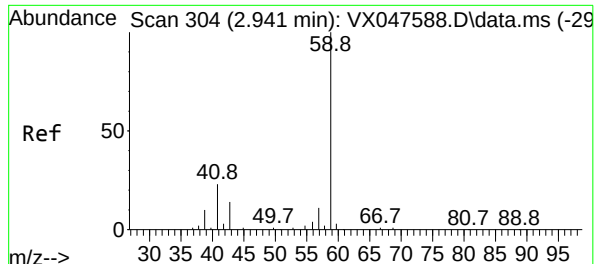
Delta R.T. -0.000 min

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 :

VSTDICC020

Tgt Ion: 59 Resp: 32450

Ion Ratio Lower Upper

59 100

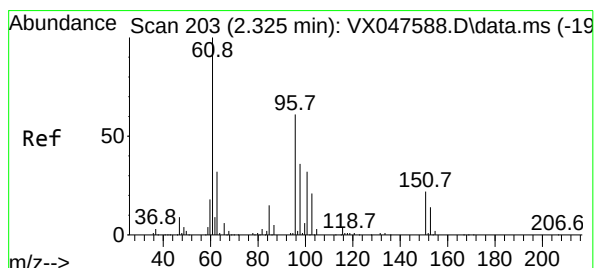
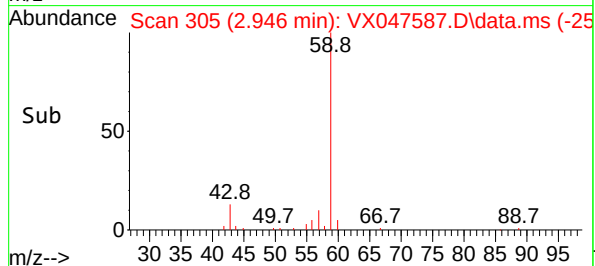
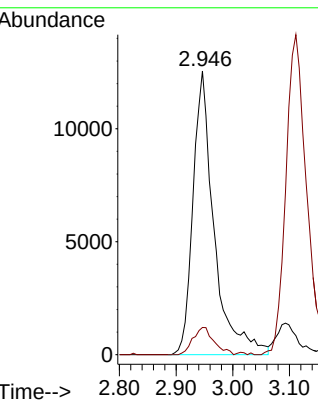
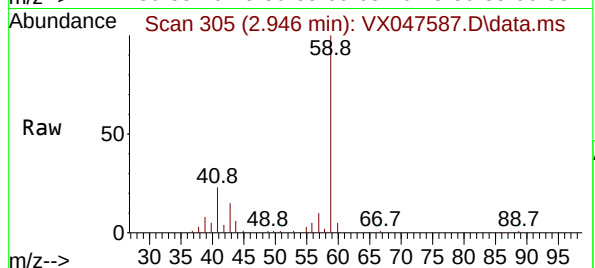
57 9.5 8.3 12.5

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

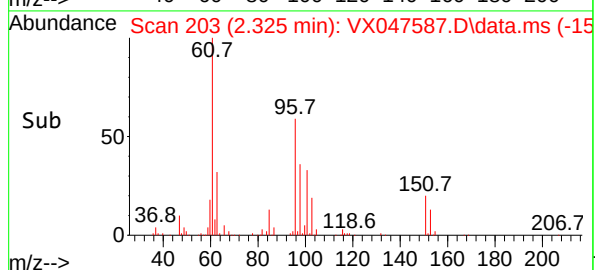
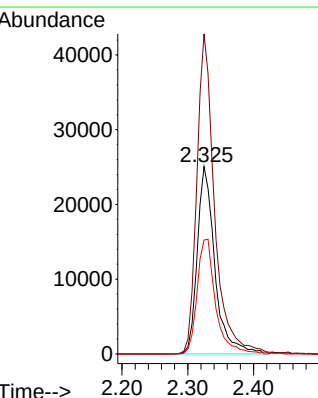
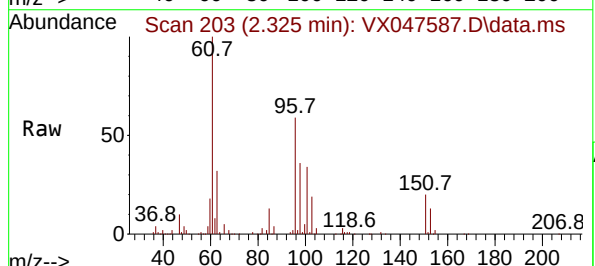
Tgt Ion: 96 Resp: 46863

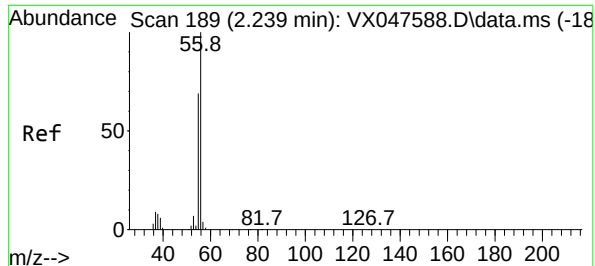
Ion Ratio Lower Upper

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

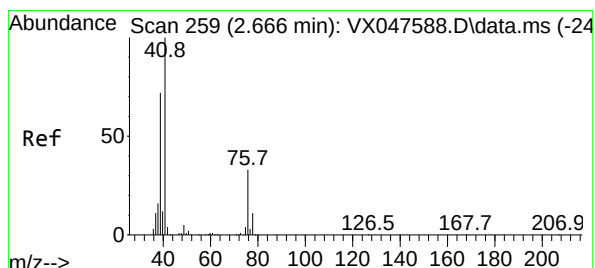
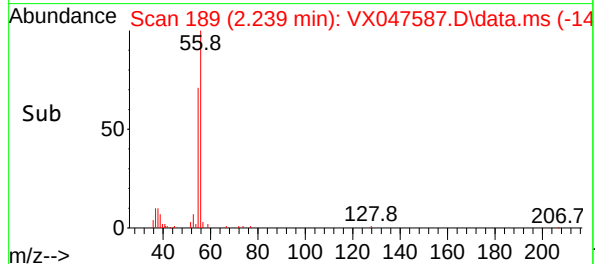
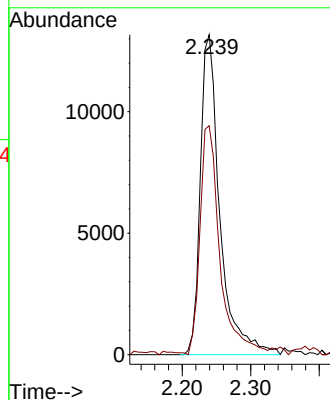
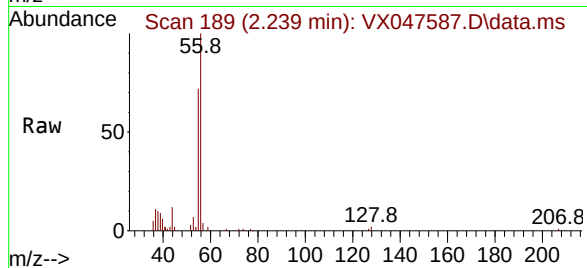
55 71.5 57.2 85.8

Manual Integrations

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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

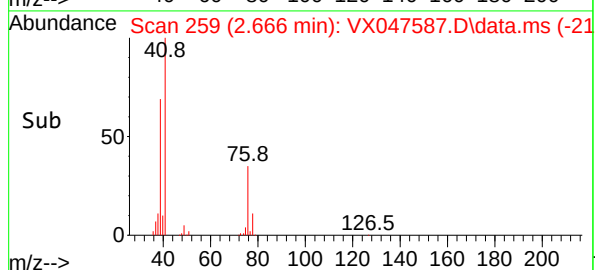
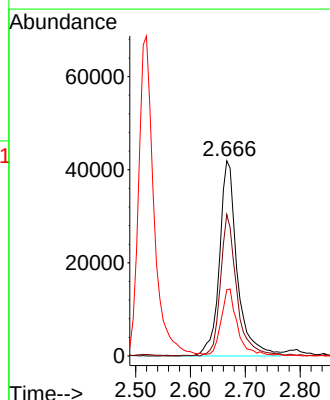
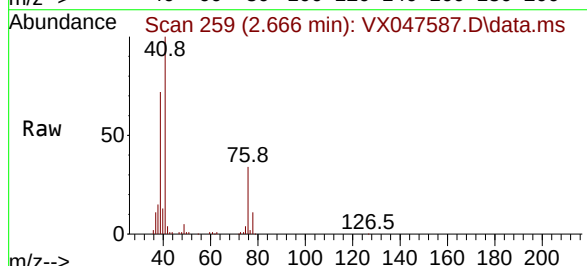
Tgt Ion: 41 Resp: 94710

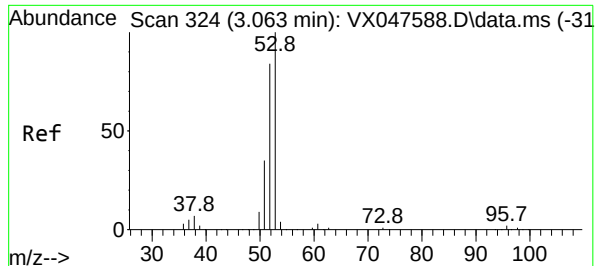
Ion Ratio Lower Upper

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 :

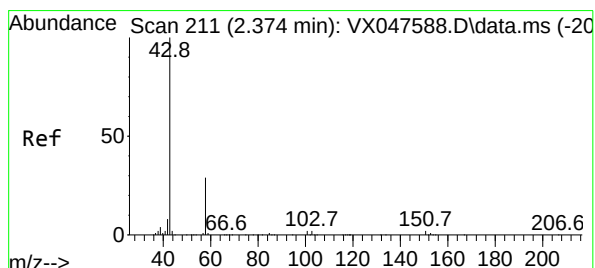
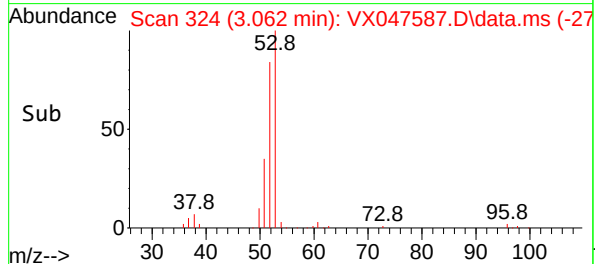
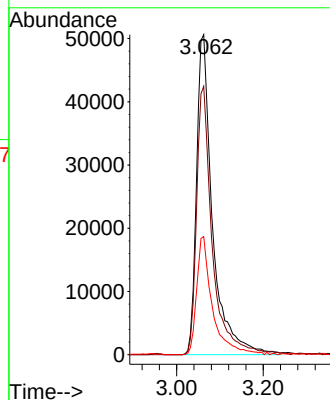
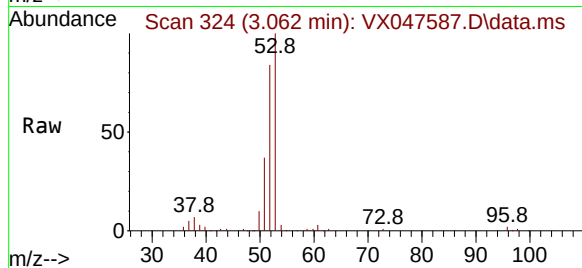
VSTDICC020

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
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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#16

Acetone

Concen: 115.507 ug/l

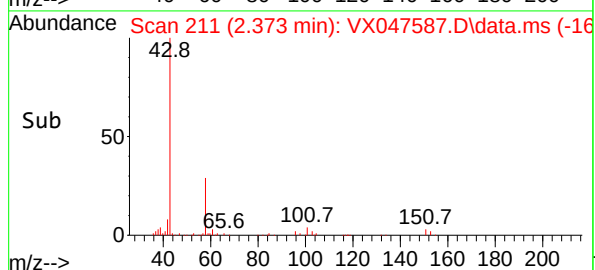
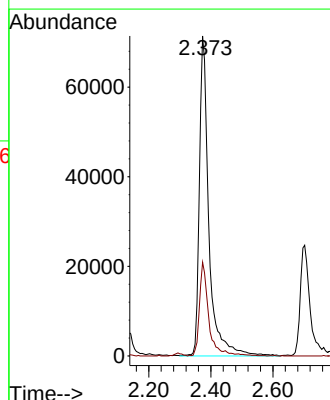
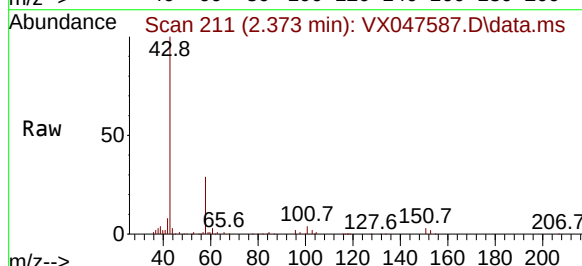
RT: 2.373 min Scan# 211

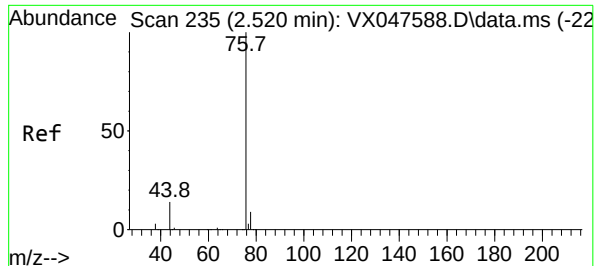
Delta R.T. -0.000 min

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 :

VSTDICC020

Tgt Ion: 76 Resp: 133290

Ion Ratio Lower Upper

76 100

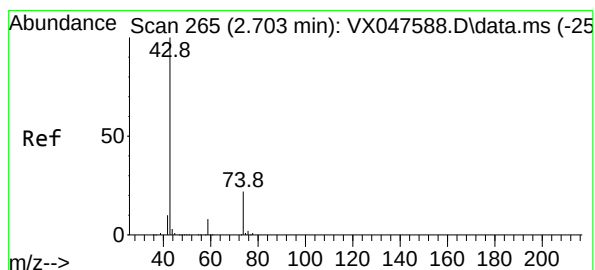
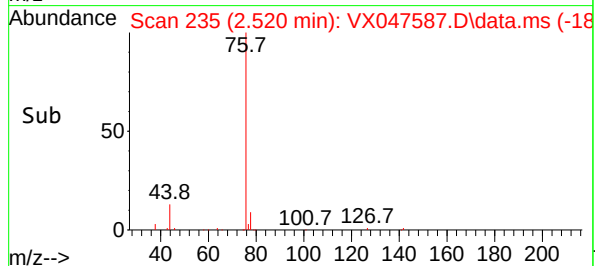
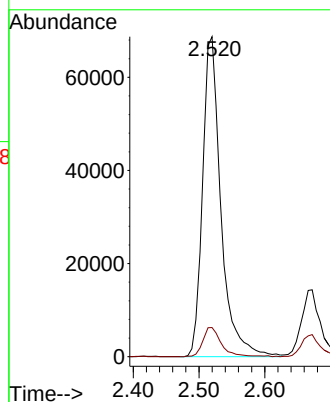
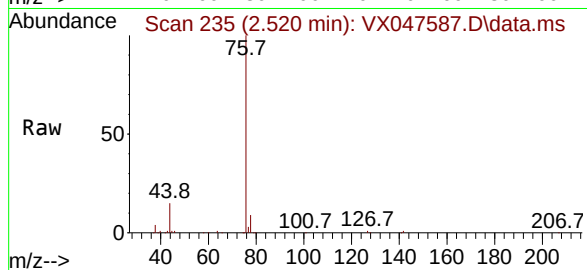
78 9.1 6.8 10.2

Manual Integrations

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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#18

Methyl Acetate

Concen: 18.536 ug/l

RT: 2.703 min Scan# 265

Delta R.T. -0.000 min

Lab File: VX047587.D

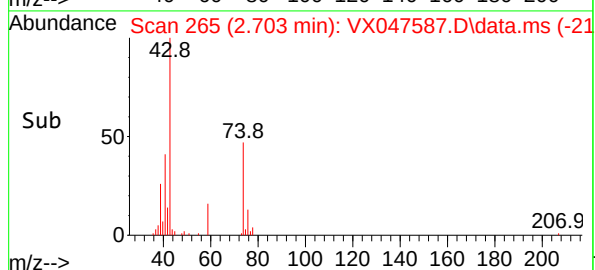
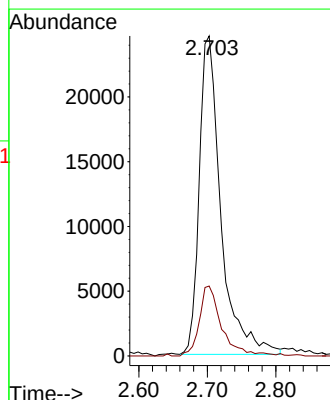
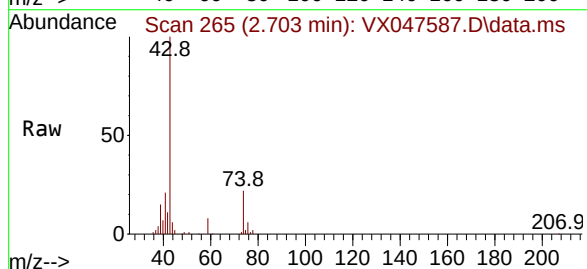
Acq: 16 Sep 2025 10:37

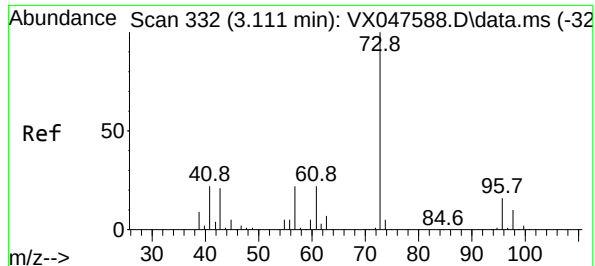
Tgt Ion: 43 Resp: 54120

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

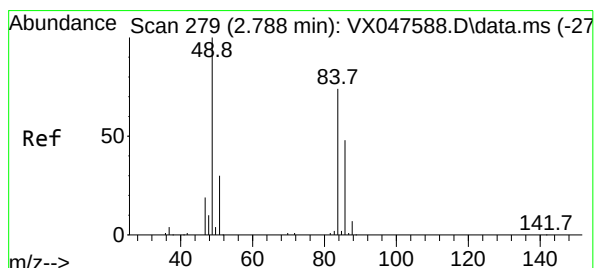
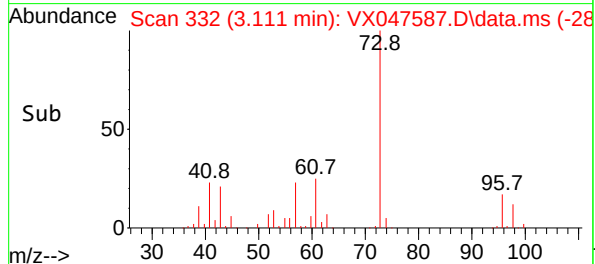
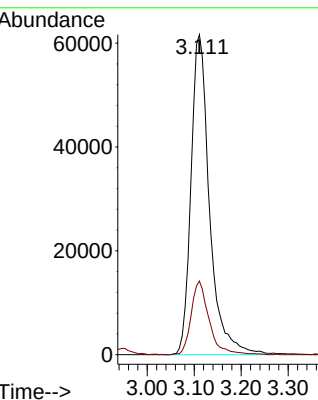
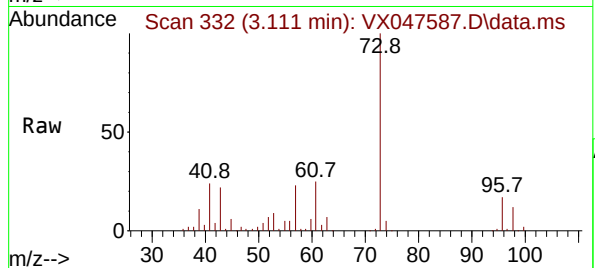
57 23.0 17.4 26.2

Manual Integrations

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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

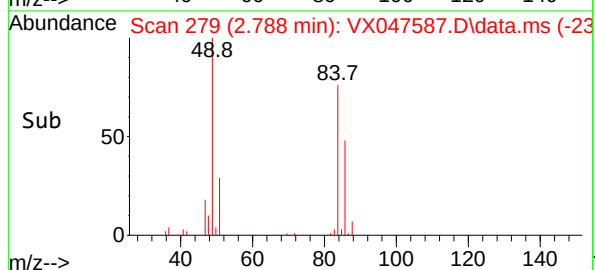
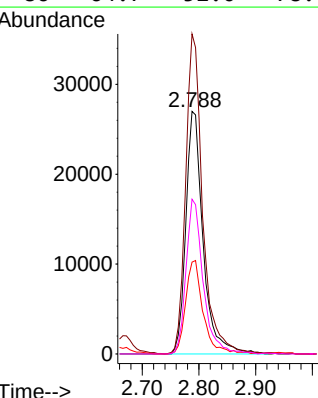
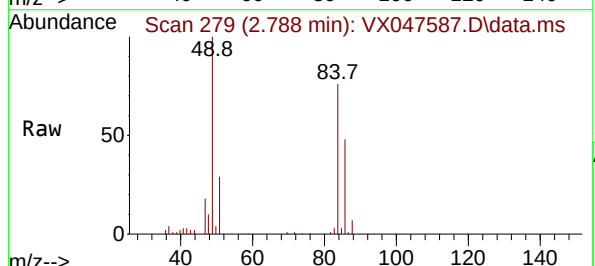
Ion Ratio Lower Upper

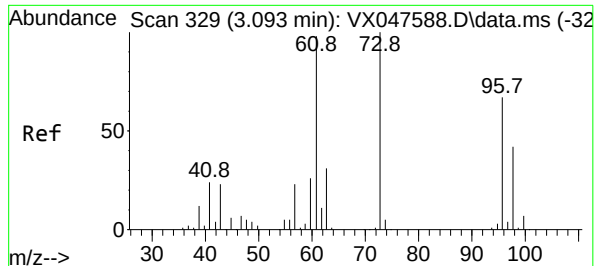
84 100

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 :

VSTDIC020

Tgt Ion: 96 Resp: 5041

Ion Ratio Lower Upper

96 100

61 151.3 116.2 174.2

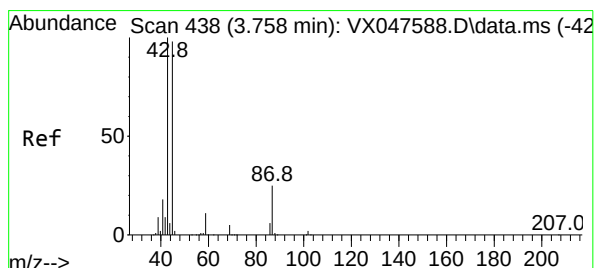
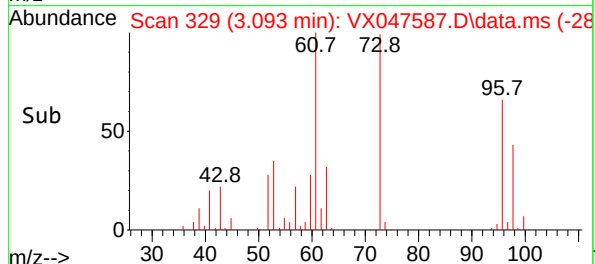
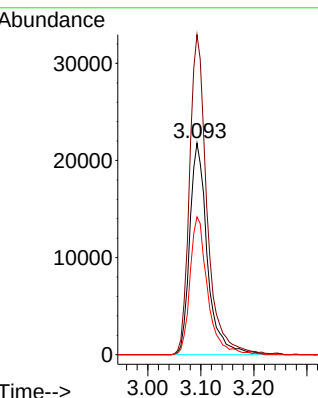
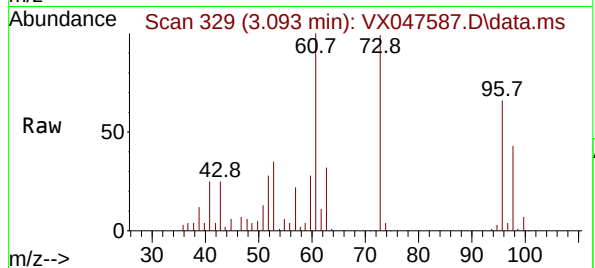
98 67.2 49.3 73.9

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

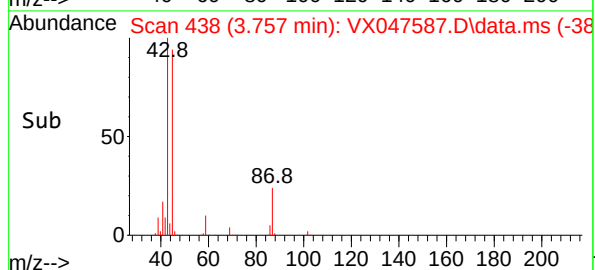
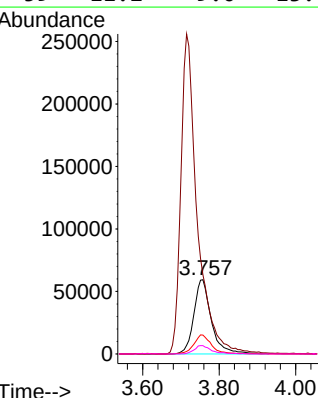
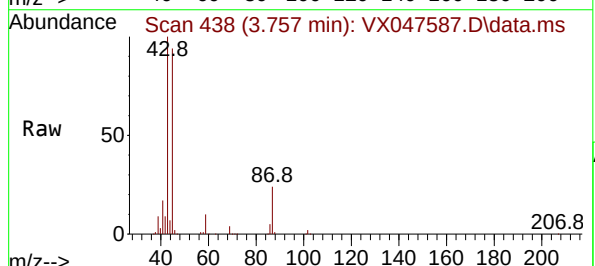
Ion Ratio Lower Upper

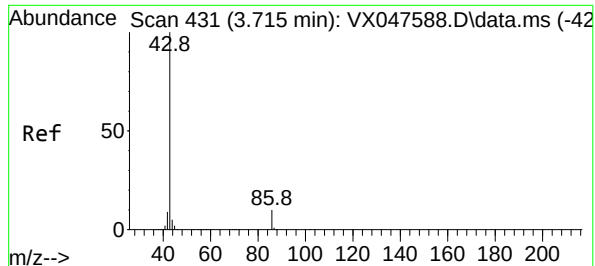
45 100

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

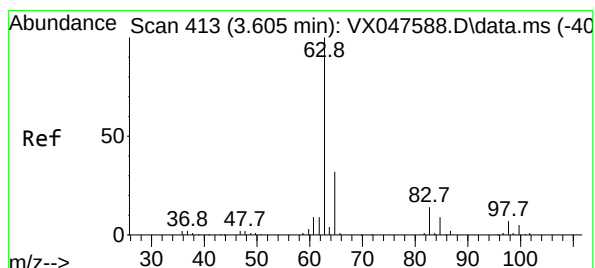
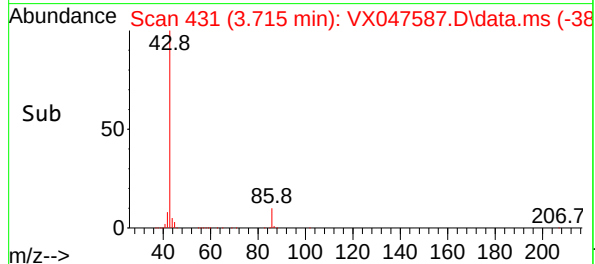
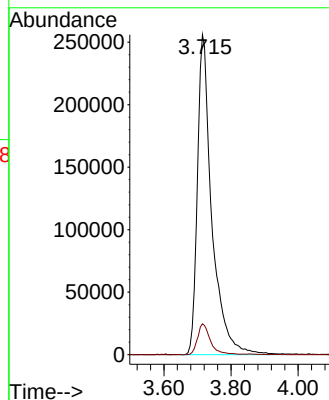
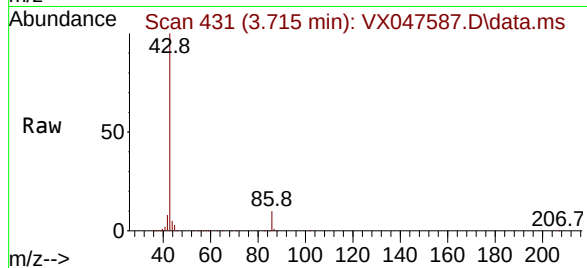
86 9.6 7.8 11.8

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

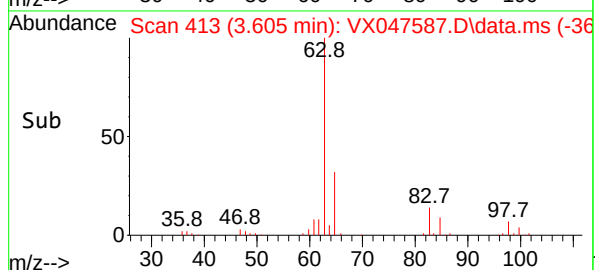
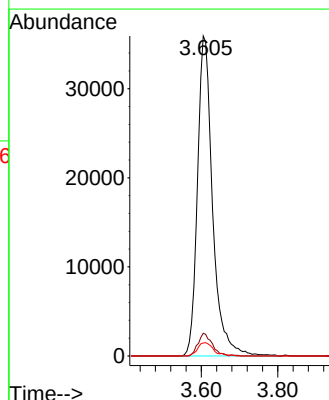
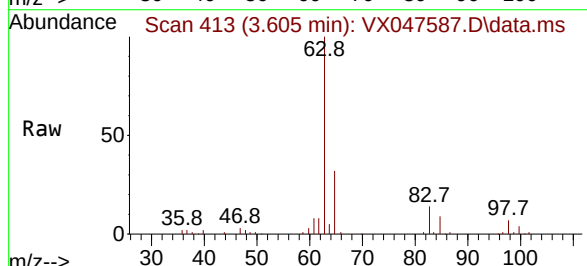
Tgt Ion: 63 Resp: 98509

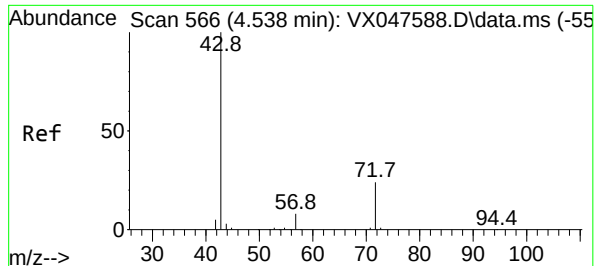
Ion Ratio Lower Upper

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

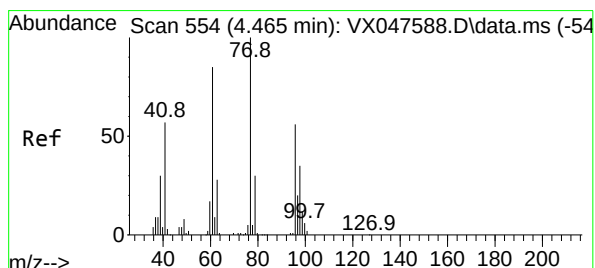
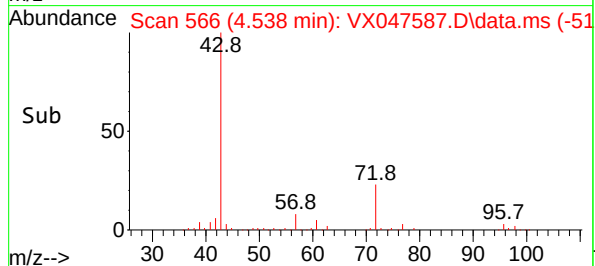
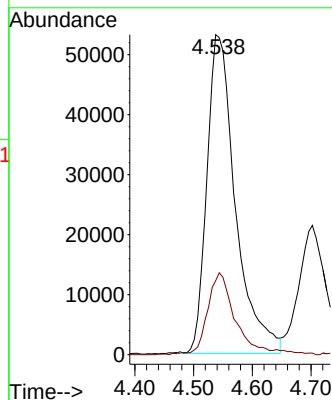
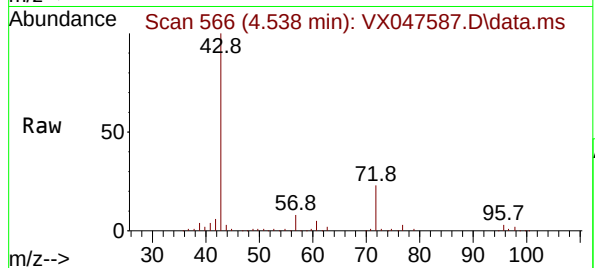
72 22.3 20.1 30.1

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

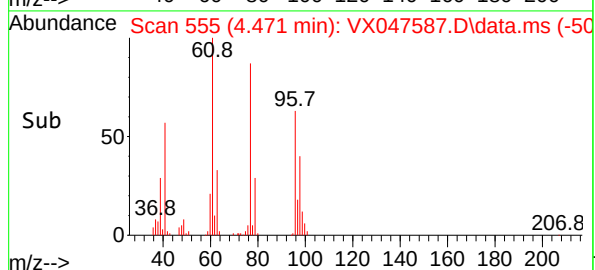
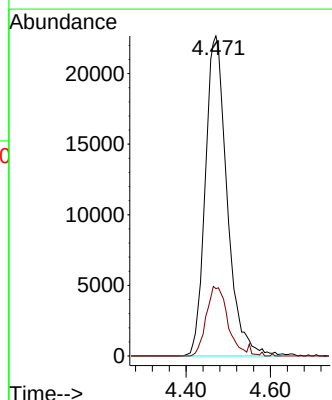
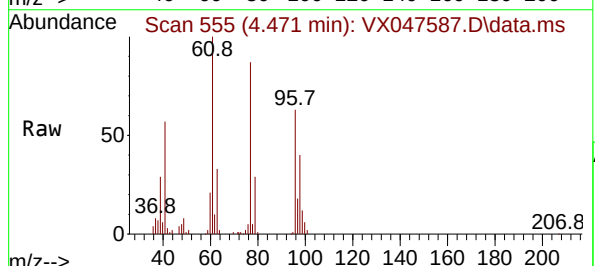
Acq: 16 Sep 2025 10:37

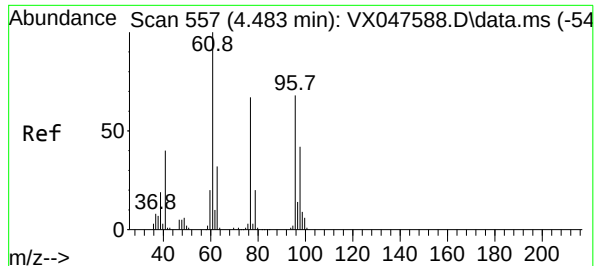
Tgt Ion: 77 Resp: 81413

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 :

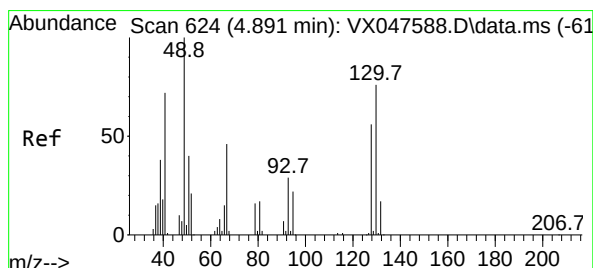
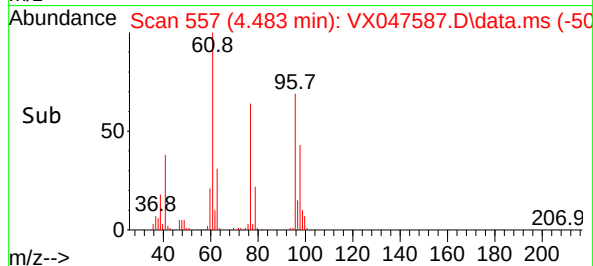
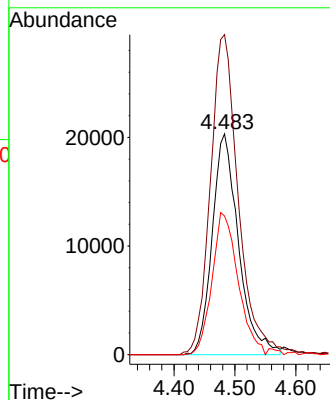
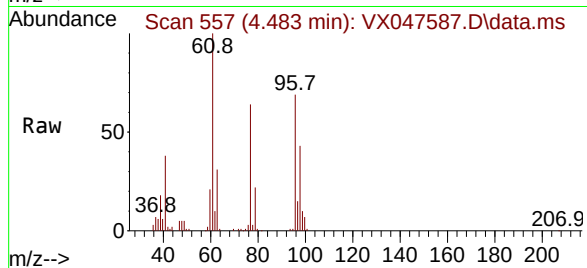
VSTDICC020

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

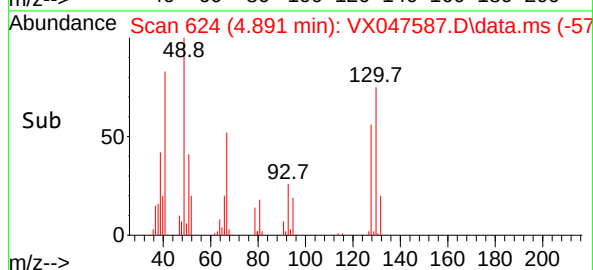
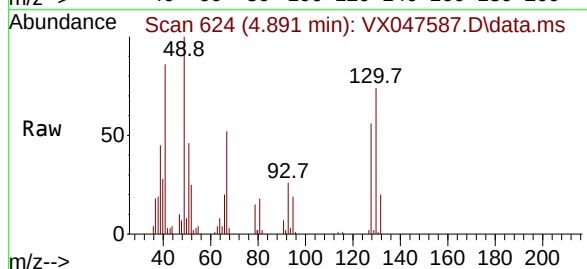
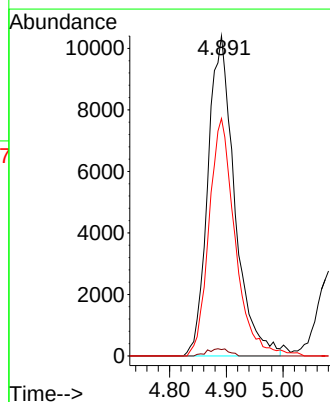
RT: 4.891 min Scan# 624

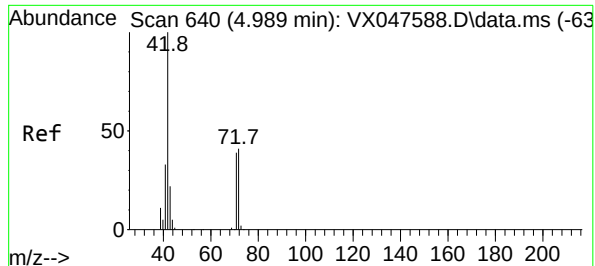
Delta R.T. -0.000 min

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# 640

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: 102935

Ion Ratio Lower Upper

42 100

72 41.5 34.2 51.2

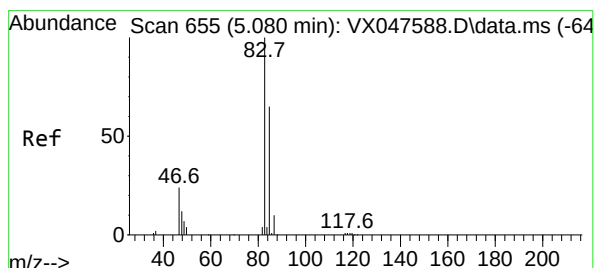
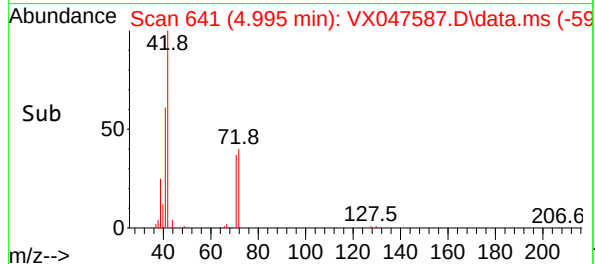
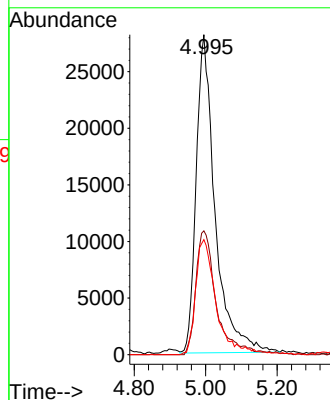
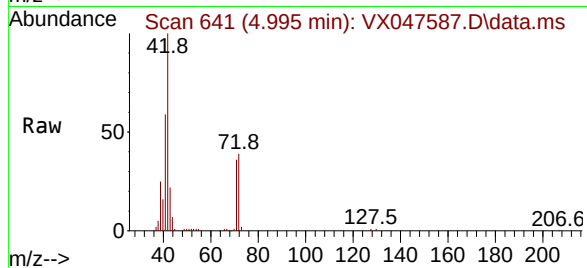
71 37.8 31.9 47.9

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

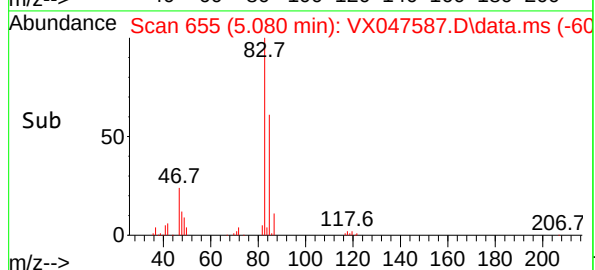
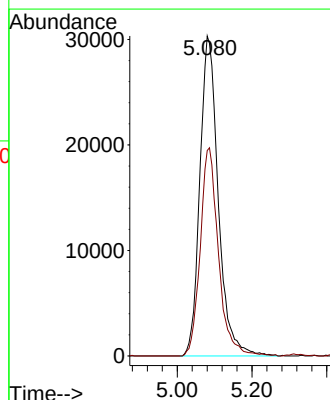
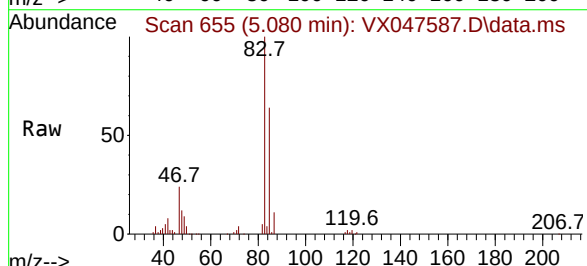
Acq: 16 Sep 2025 10:37

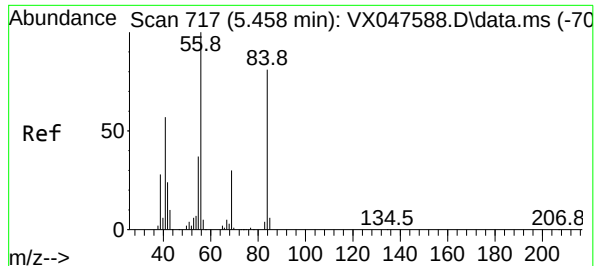
Tgt Ion: 83 Resp: 103586

Ion Ratio Lower Upper

83 100

85 64.2 51.8 77.6





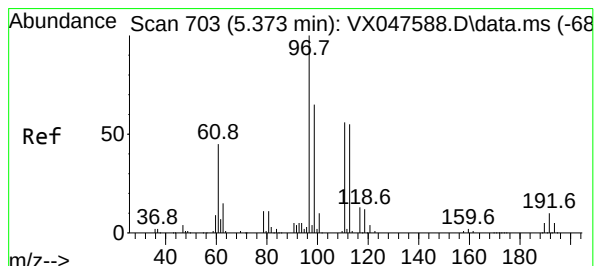
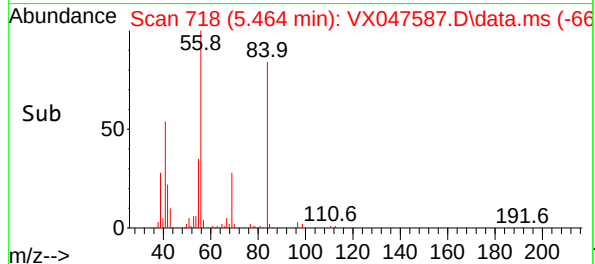
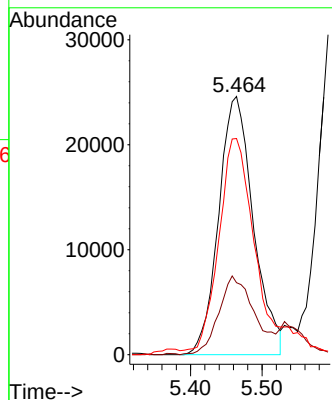
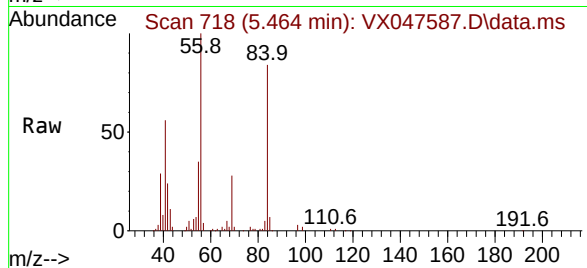
#31
Cyclohexane
Concen: 20.759 ug/l
RT: 5.464 min Scan# 717
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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

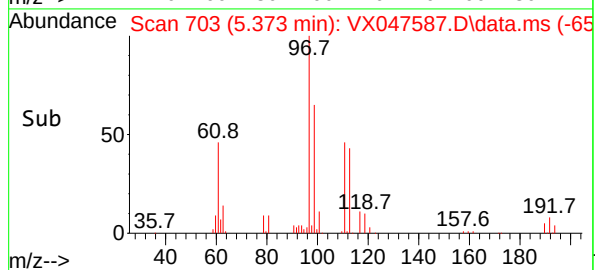
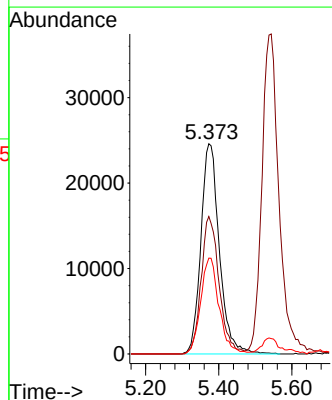
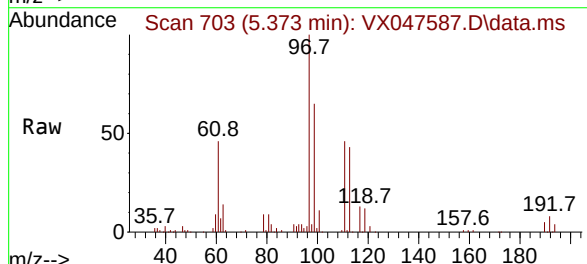
Manual Integrations
APPROVED

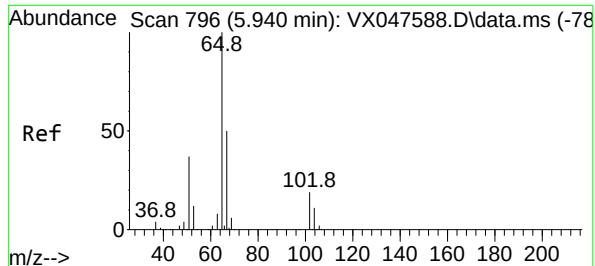
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

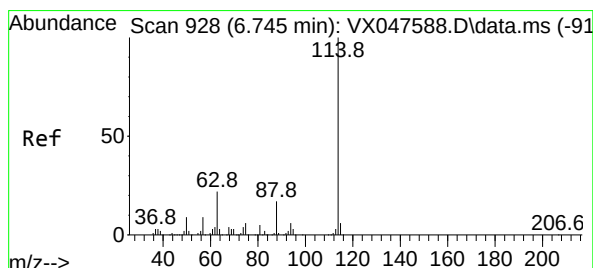
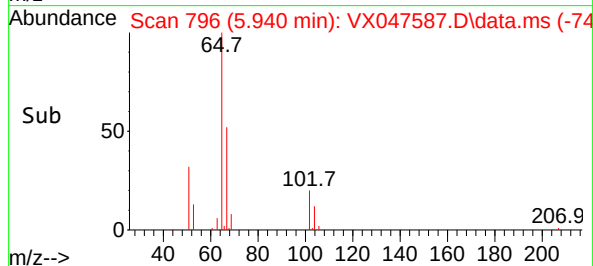
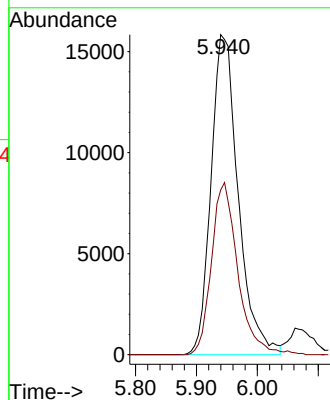
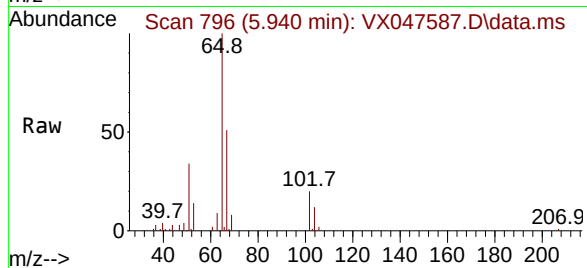
67 52.2 0.0 103.0

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

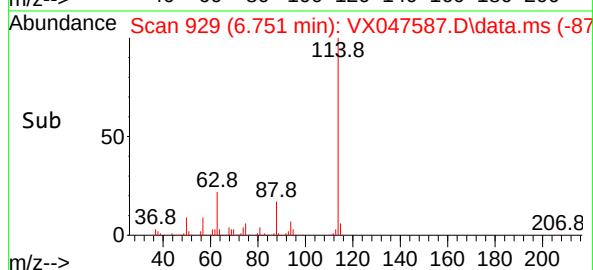
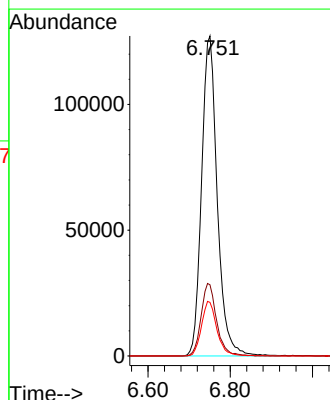
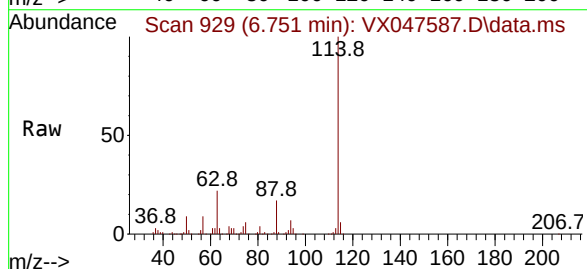
Tgt Ion:114 Resp: 336287

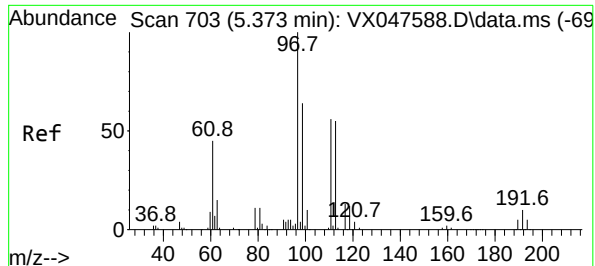
Ion Ratio Lower Upper

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

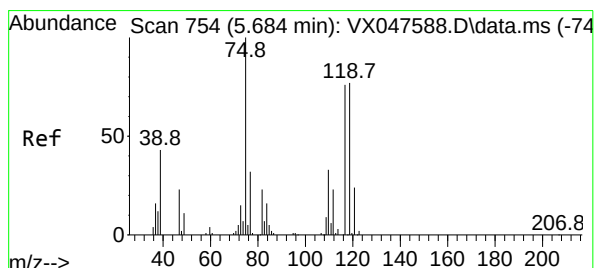
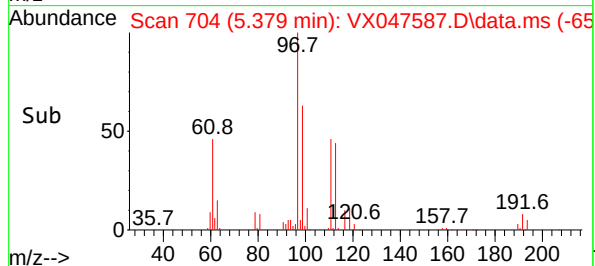
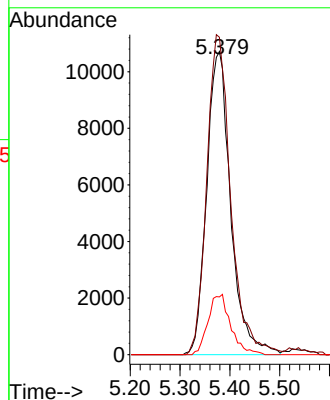
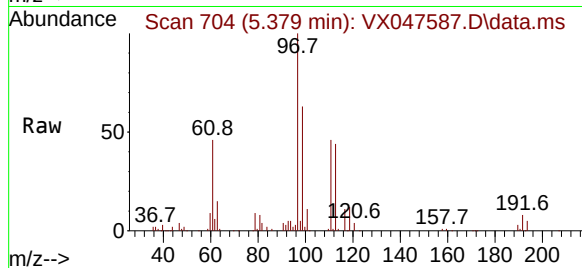
ClientSampleId :

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

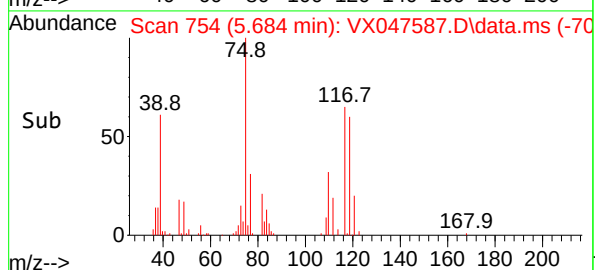
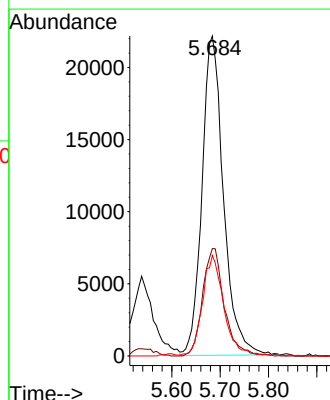
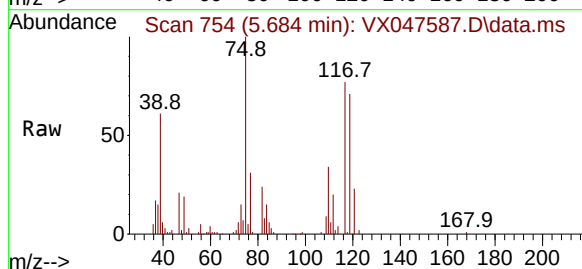
RT: 5.684 min Scan# 754

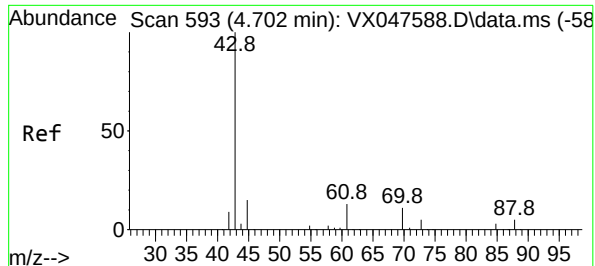
Delta R.T. -0.000 min

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 :

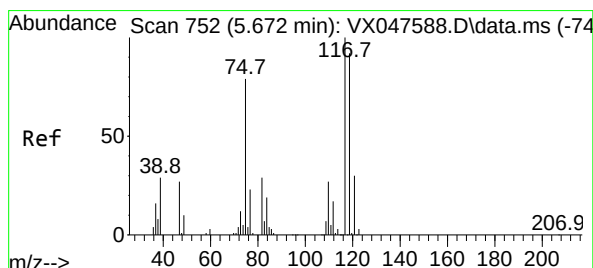
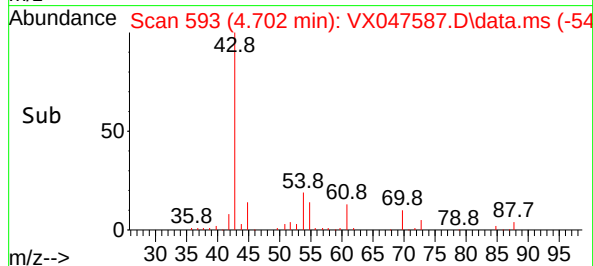
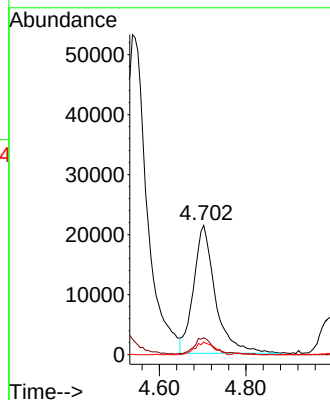
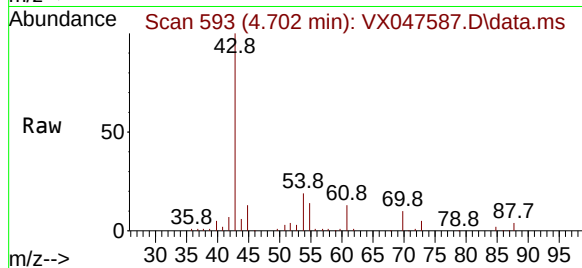
VSTDIC020

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

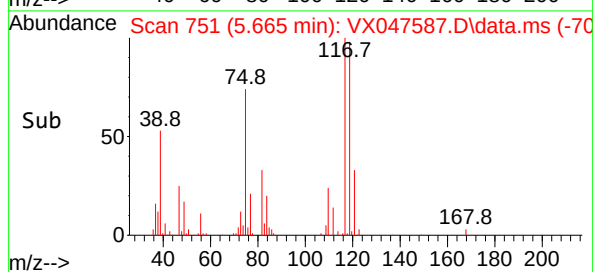
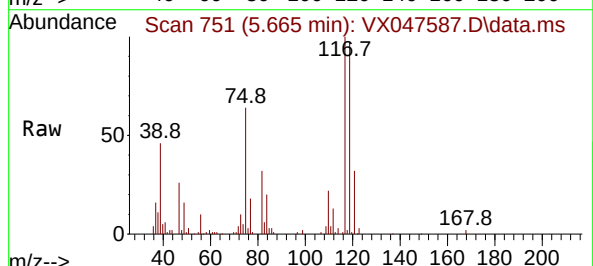
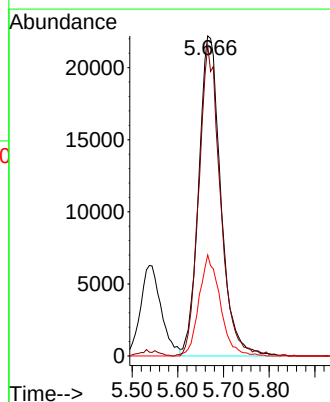
RT: 5.665 min Scan# 751

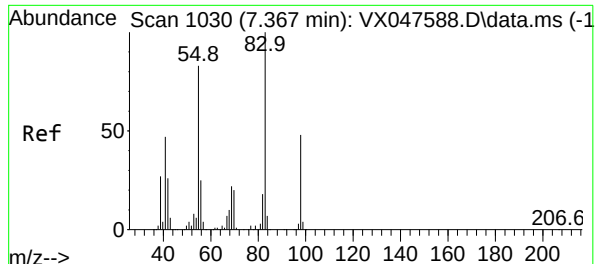
Delta R.T. -0.006 min

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 :

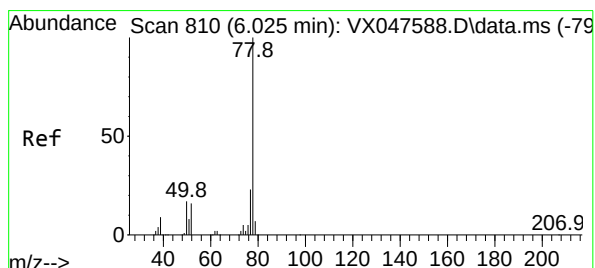
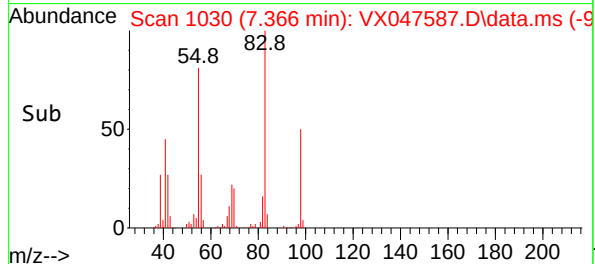
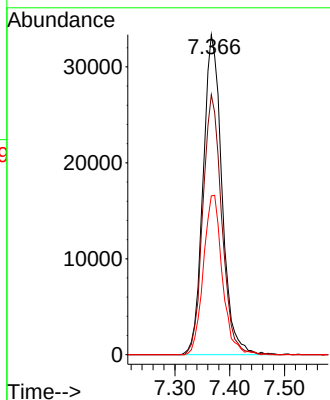
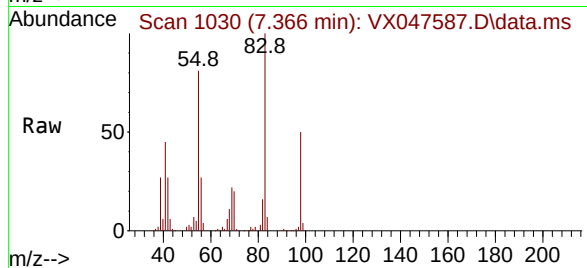
VSTDIC020

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

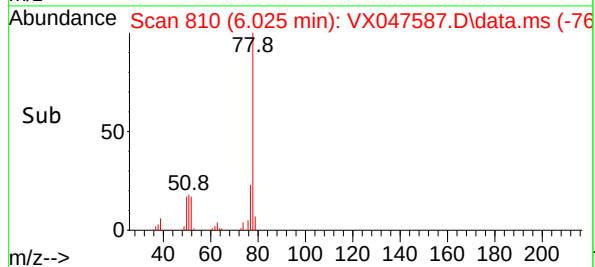
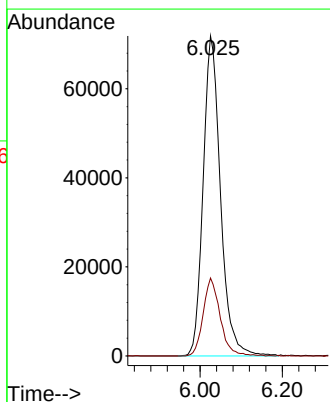
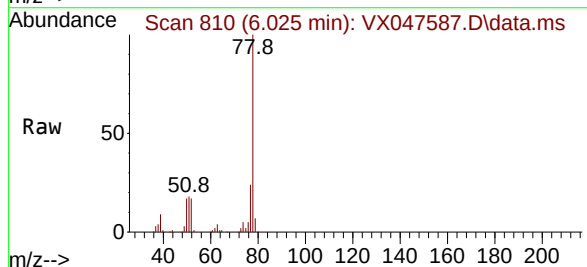
RT: 6.025 min Scan# 810

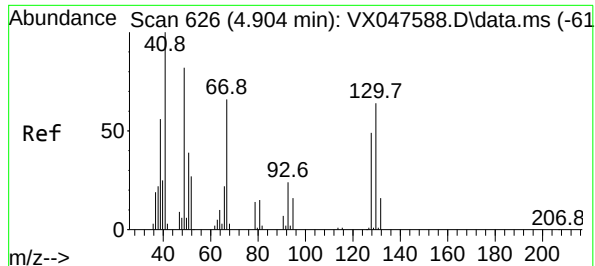
Delta R.T. -0.000 min

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





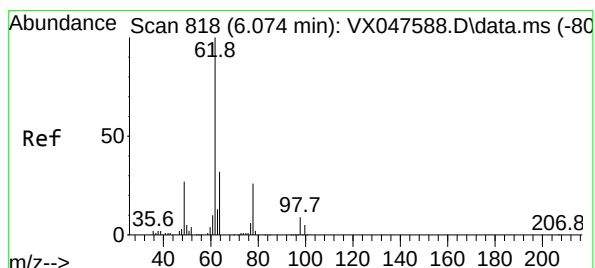
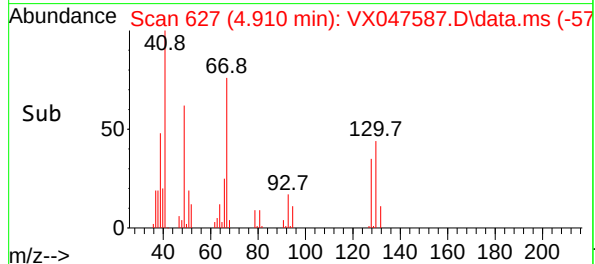
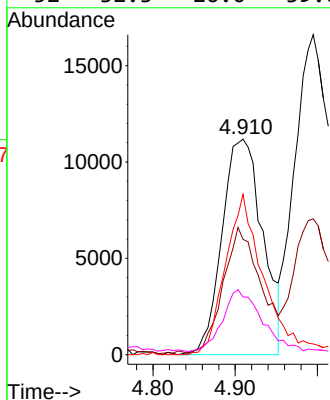
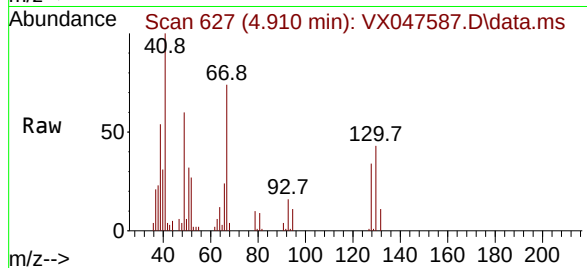
#41
Methacrylonitrile
Concen: 21.148 ug/l
RT: 4.910 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

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

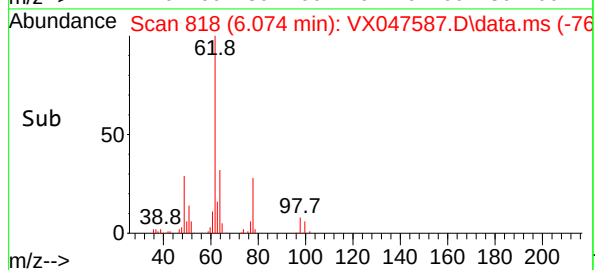
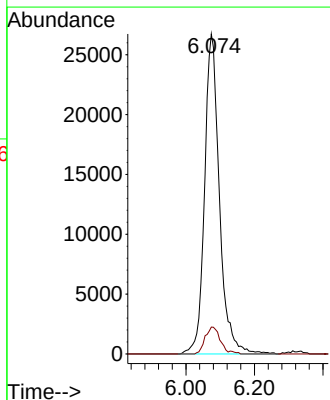
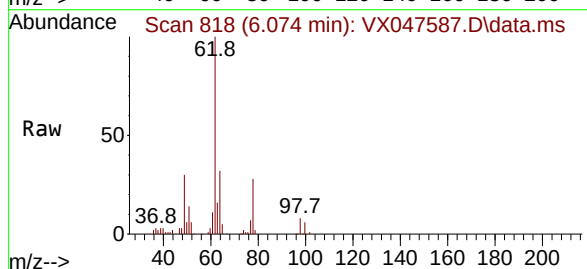
Manual Integrations
APPROVED

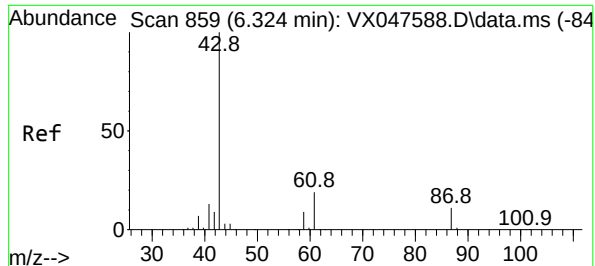
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

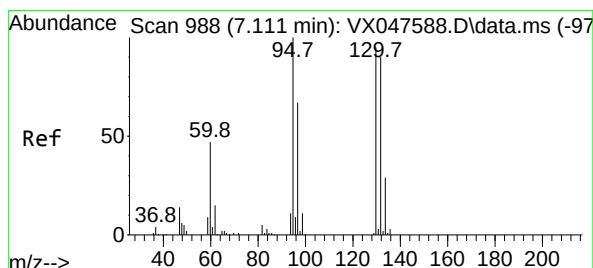
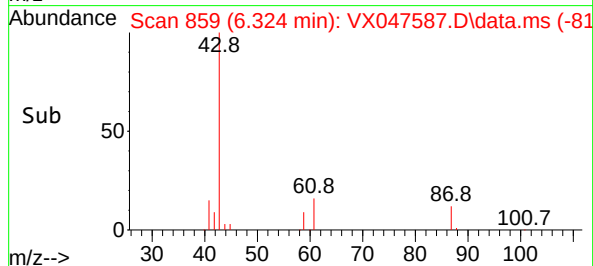
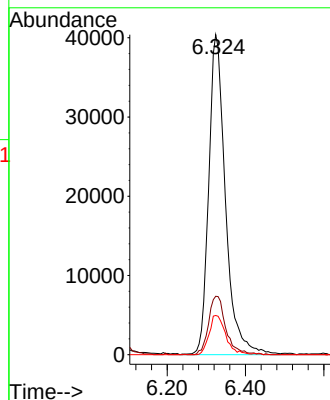
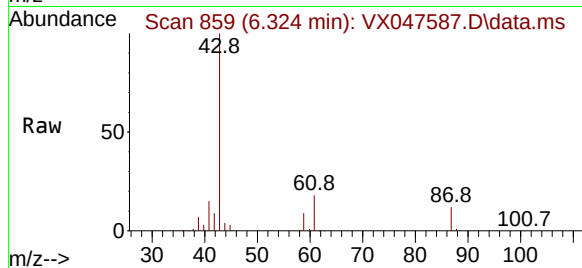
87 12.1 9.6 14.4

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

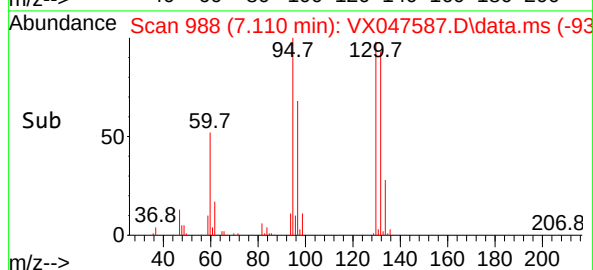
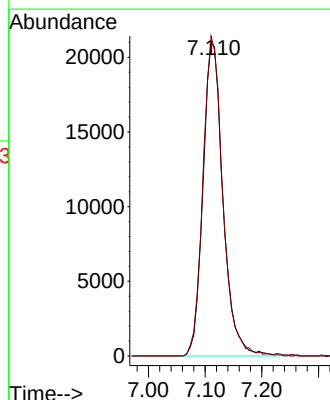
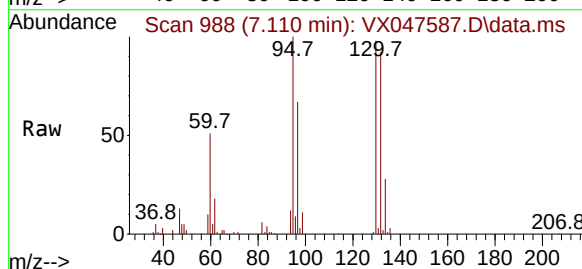
Acq: 16 Sep 2025 10:37

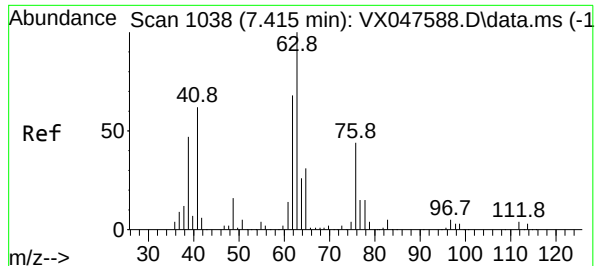
Tgt Ion:130 Resp: 51369

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

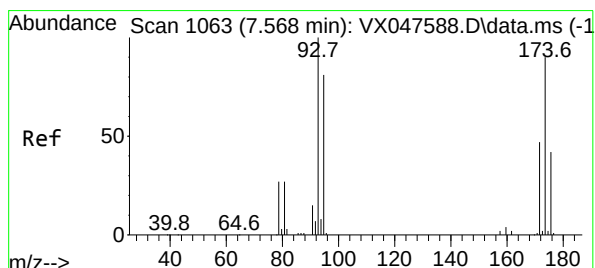
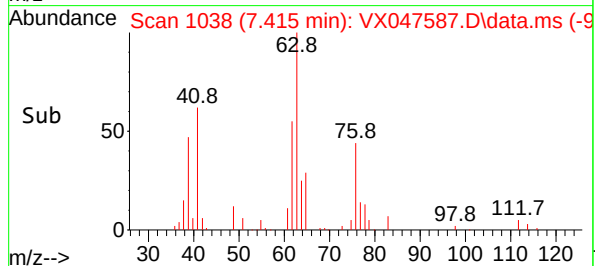
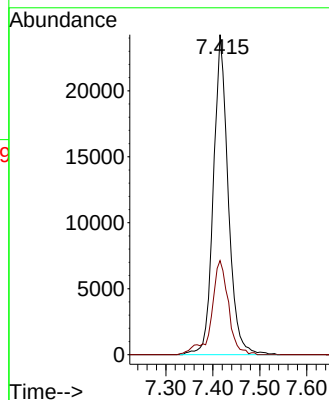
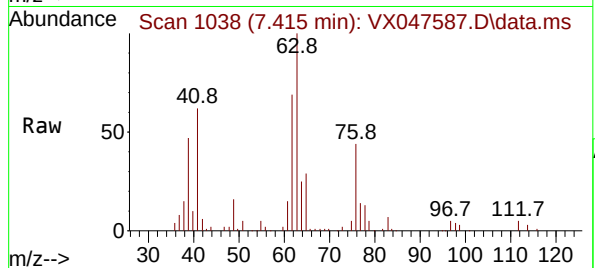
65 29.4 24.7 37.1

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

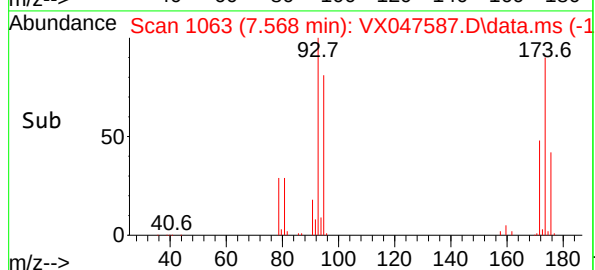
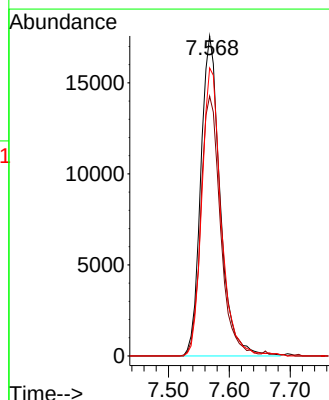
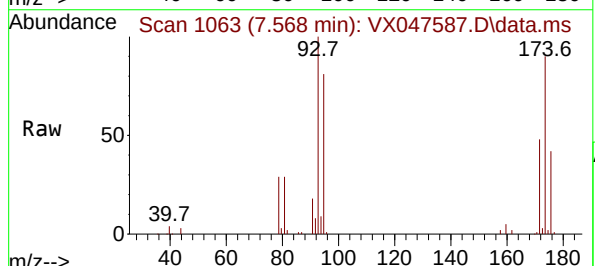
Tgt Ion: 93 Resp: 38910

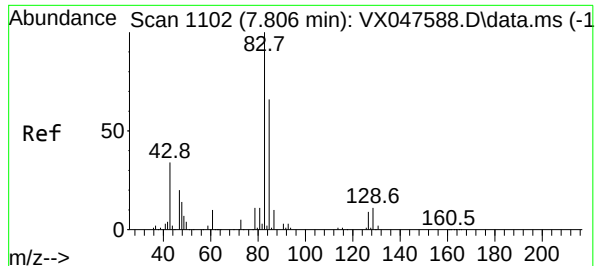
Ion Ratio Lower Upper

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 :

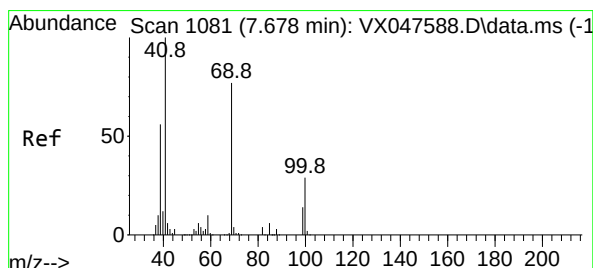
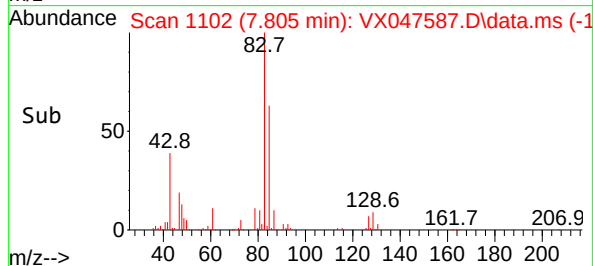
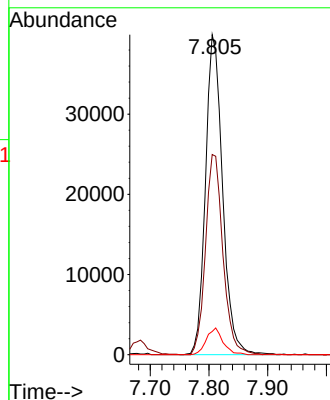
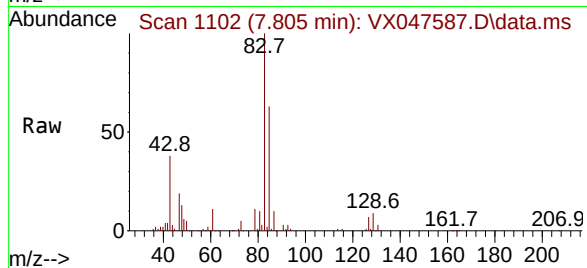
VSTDIC020

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

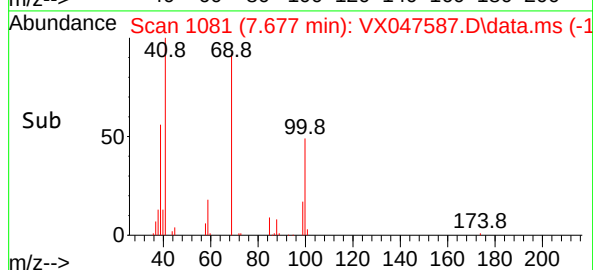
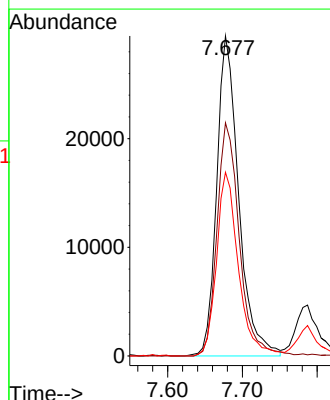
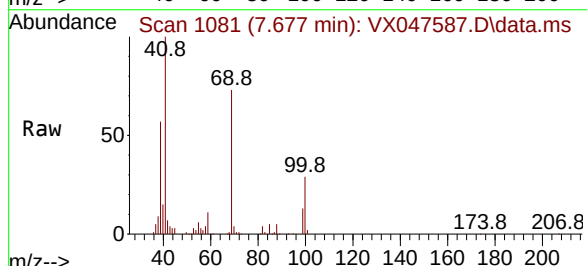
RT: 7.677 min Scan# 1081

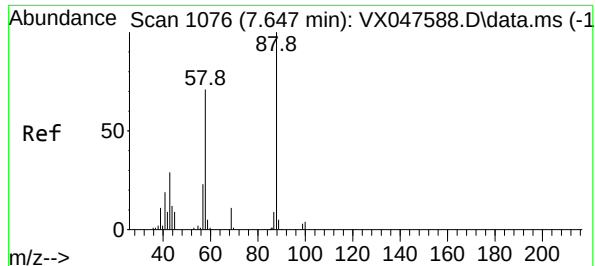
Delta R.T. -0.000 min

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# 1076

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

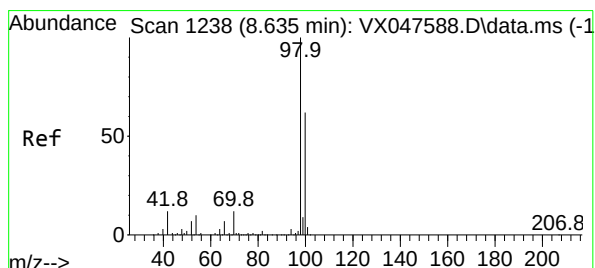
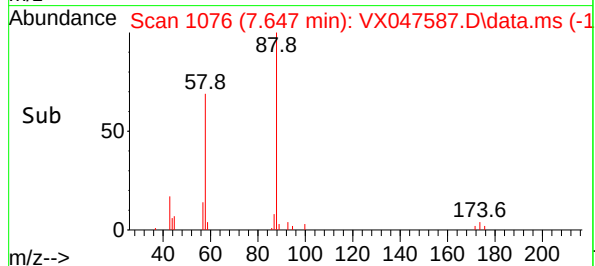
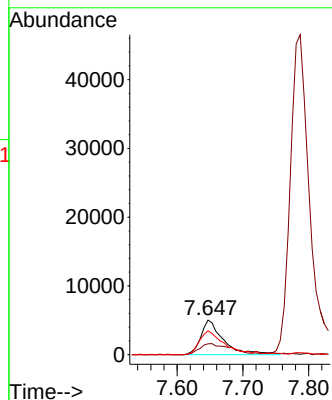
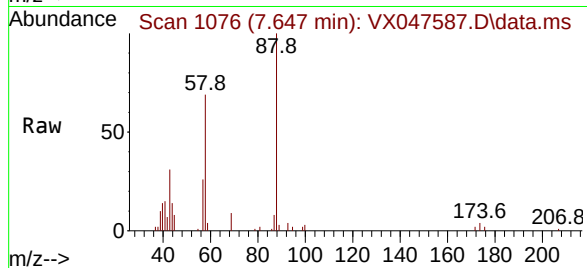
VSTDIC020

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

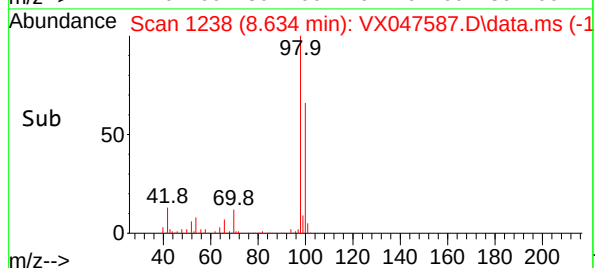
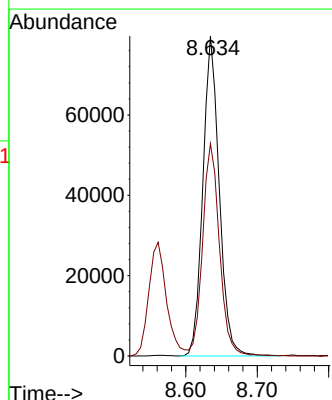
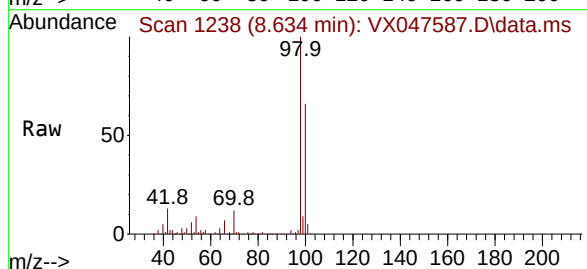
RT: 8.634 min Scan# 1238

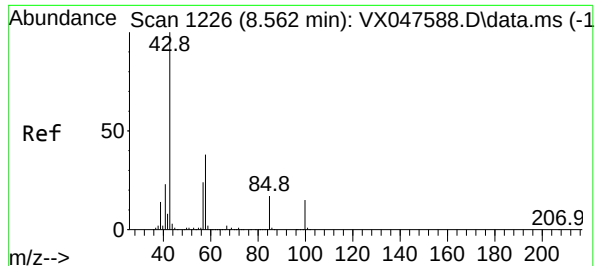
Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

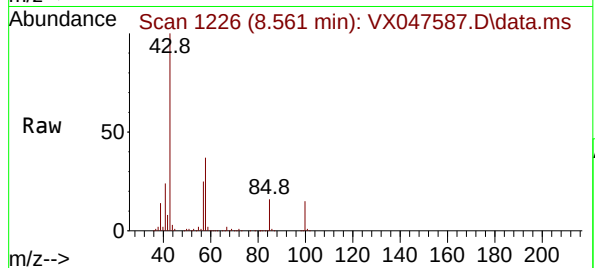
Tgt Ion:	98	Resp:	126875
Ion	Ratio	Lower	Upper
98	100		
100	67.9	53.0	79.4





#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

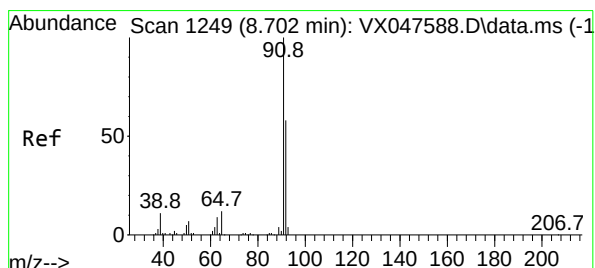
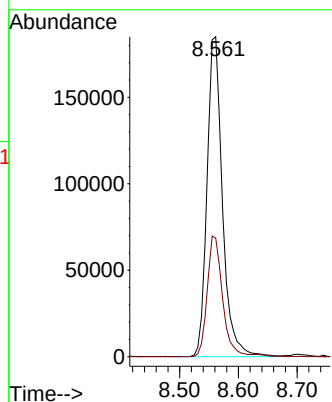
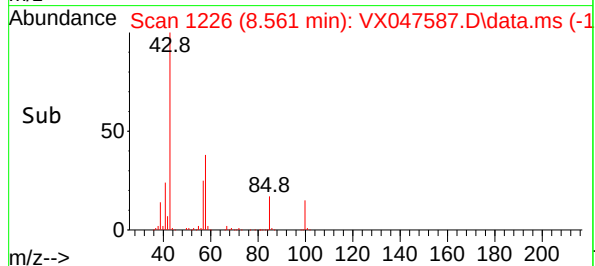
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 43 Resp: 338370
Ion Ratio Lower Upper
43 100
58 37.8 30.3 45.5

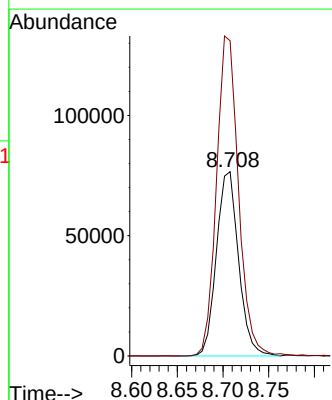
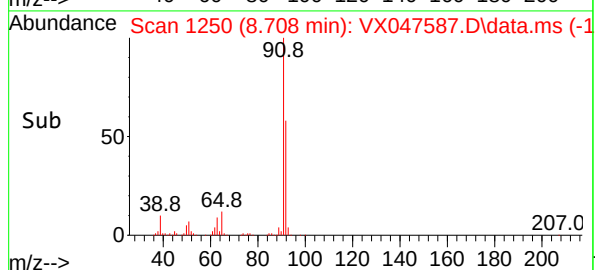
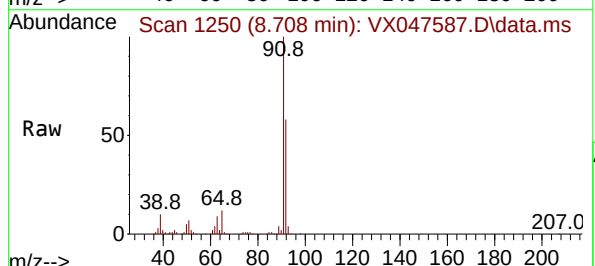
Manual Integrations
APPROVED

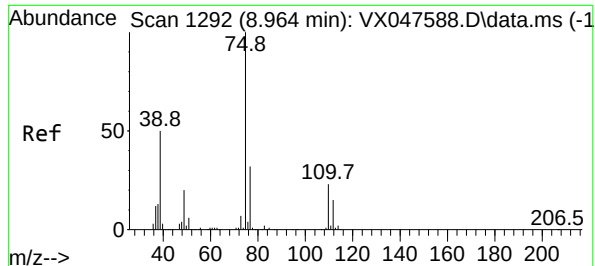
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

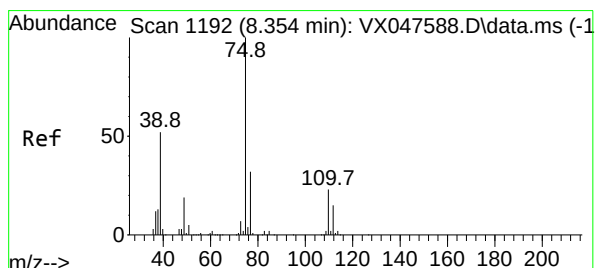
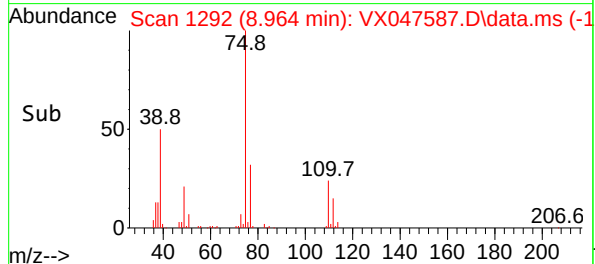
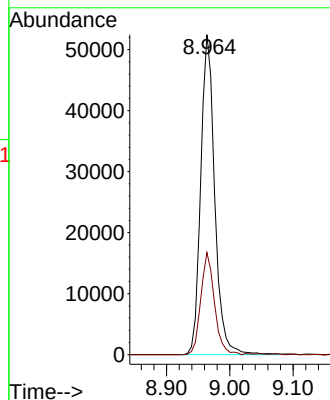
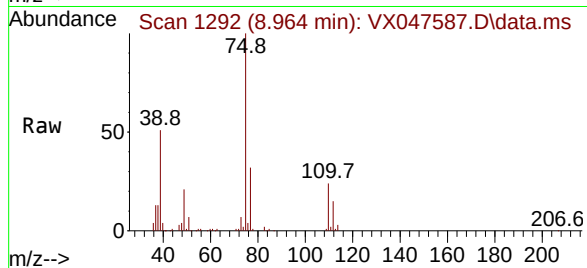
77 31.9 25.4 38.2

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

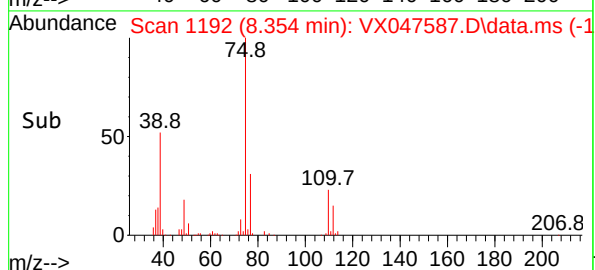
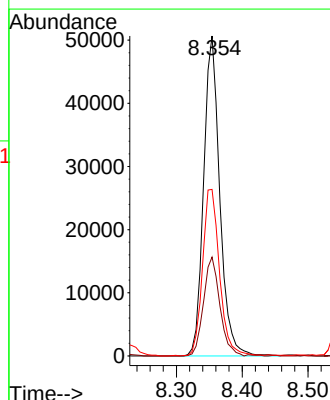
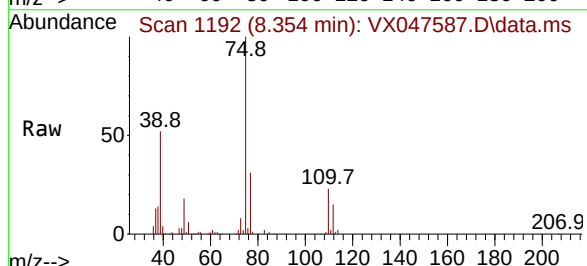
Tgt Ion: 75 Resp: 86648

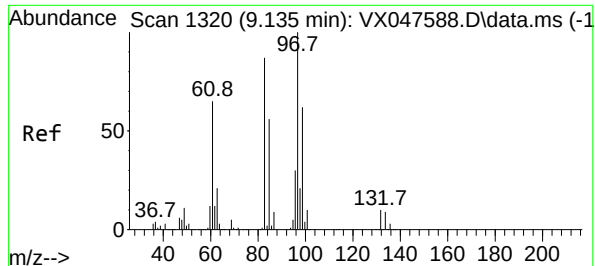
Ion Ratio Lower Upper

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: 97 Resp: 4985

Ion Ratio Lower Upper

97 100

83 83.3 69.6 104.4

85 55.2 45.0 67.6

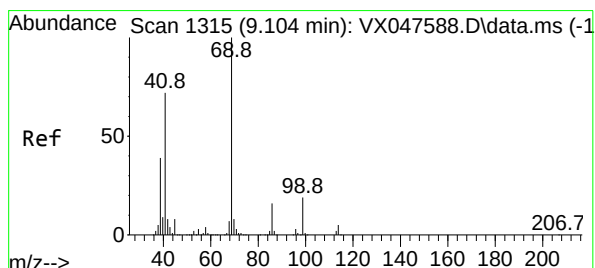
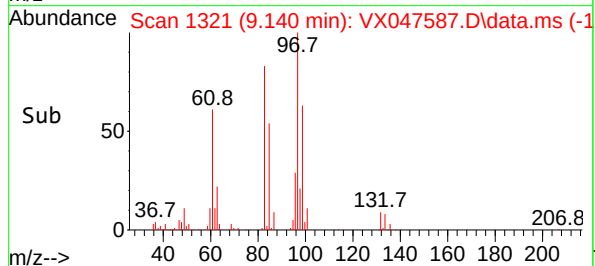
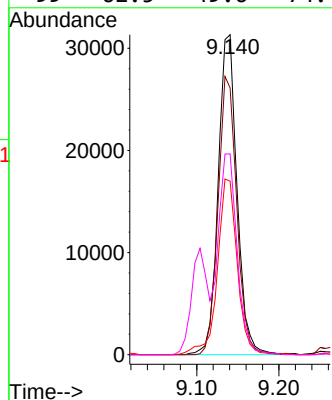
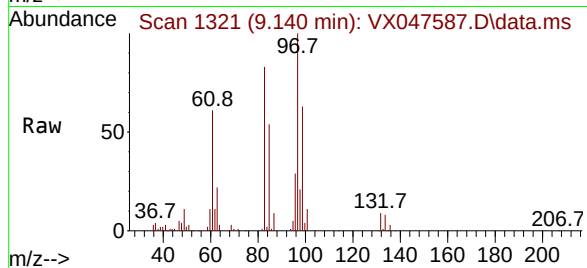
99 62.5 49.6 74.4

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

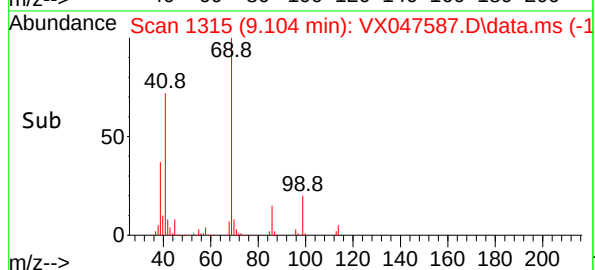
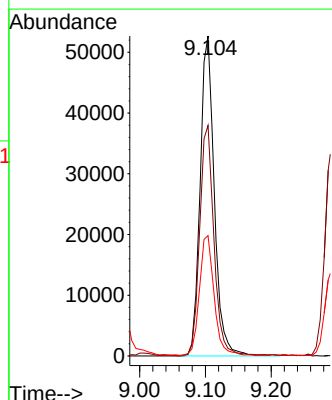
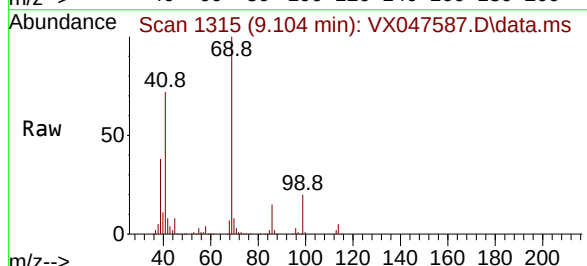
Tgt Ion: 69 Resp: 79011

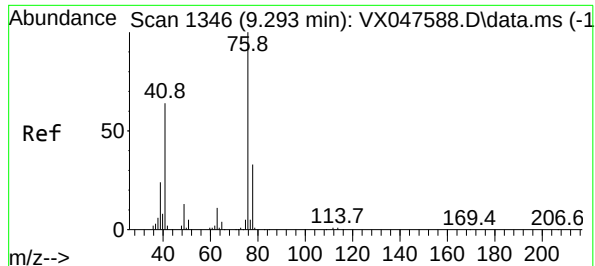
Ion Ratio Lower Upper

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

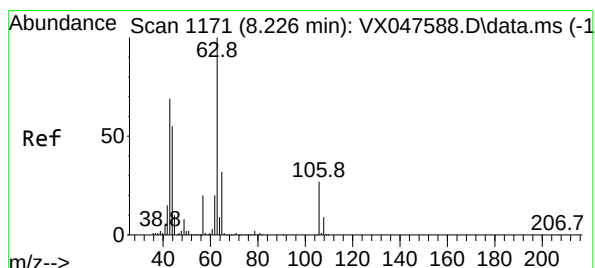
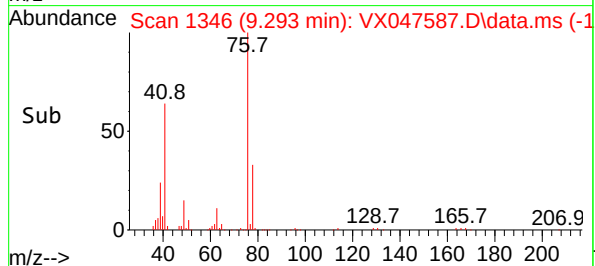
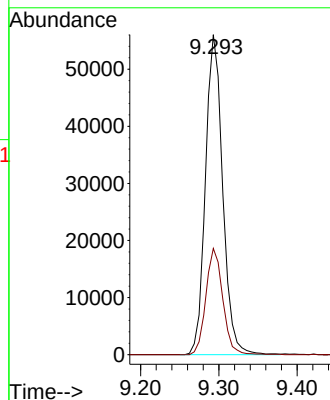
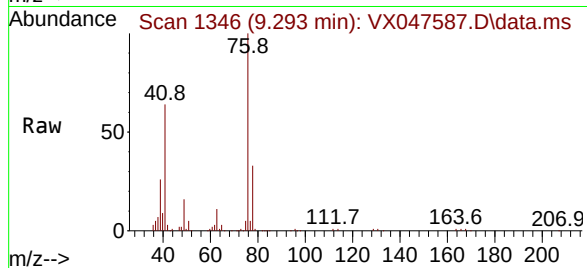
78 32.6 26.2 39.4

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

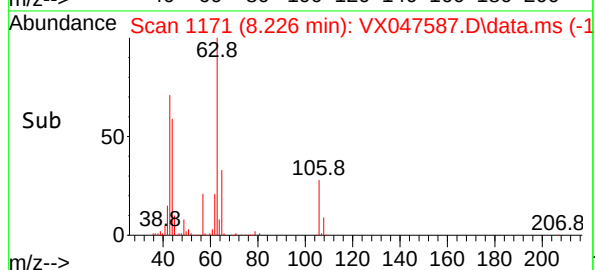
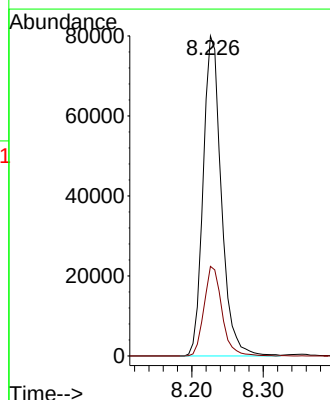
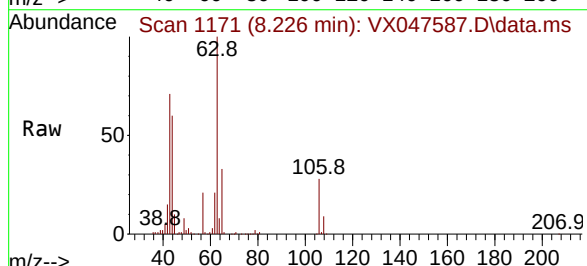
Acq: 16 Sep 2025 10:37

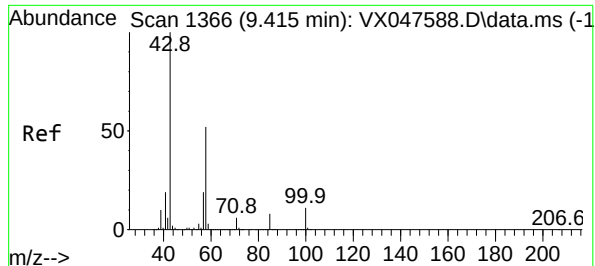
Tgt Ion: 63 Resp: 141395

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

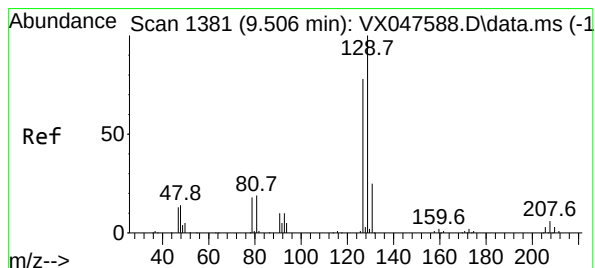
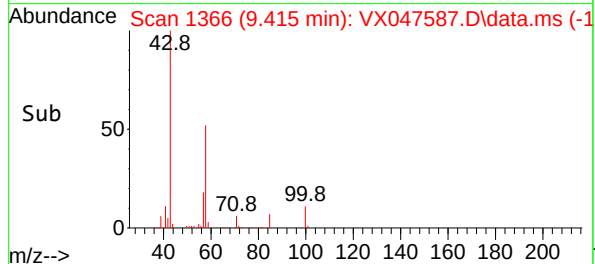
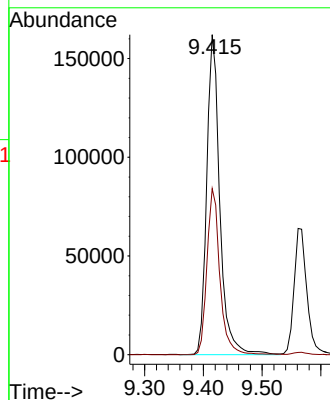
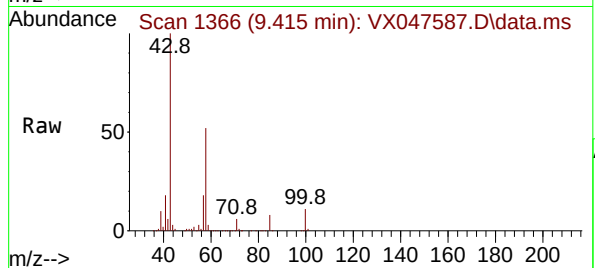
58 51.4 26.1 78.2

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

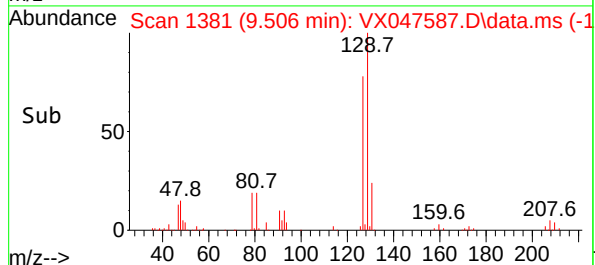
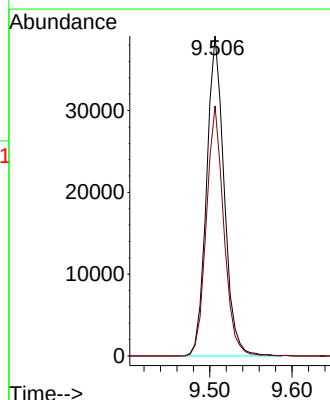
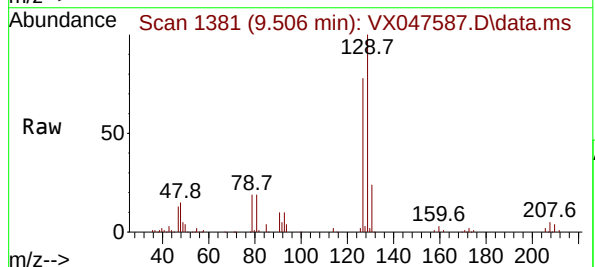
Acq: 16 Sep 2025 10:37

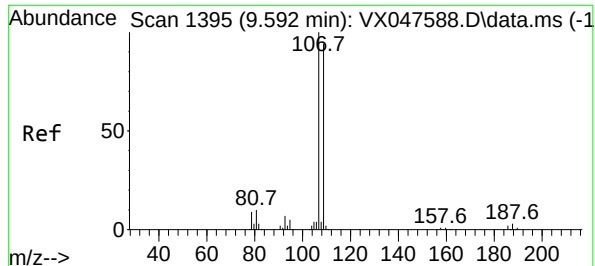
Tgt Ion:129 Resp: 57994

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 :

VSTDICC020

Tgt Ion:107 Resp: 51614

Ion Ratio Lower Upper

107 100

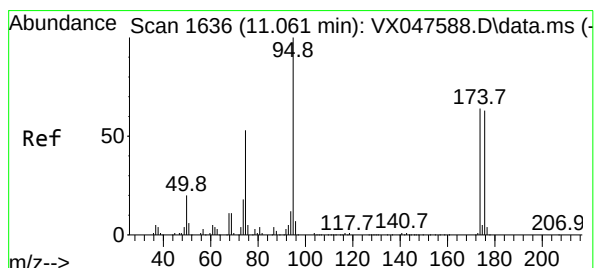
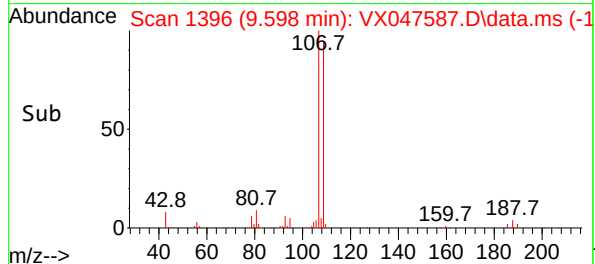
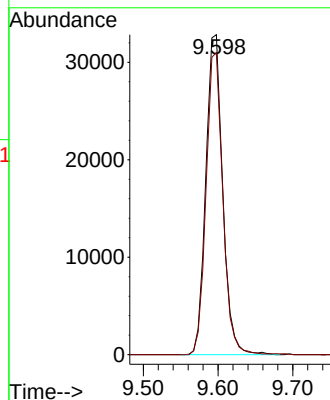
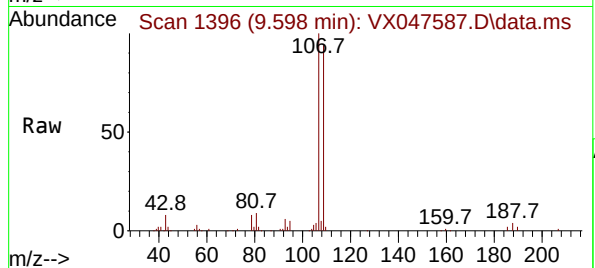
109 93.4 75.3 112.9

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

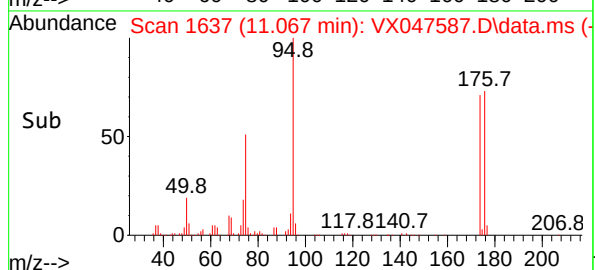
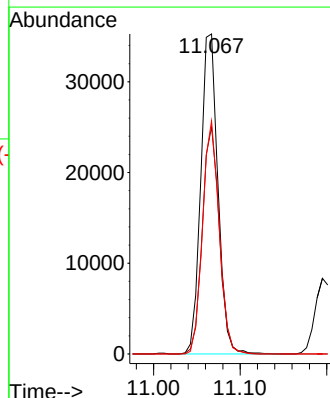
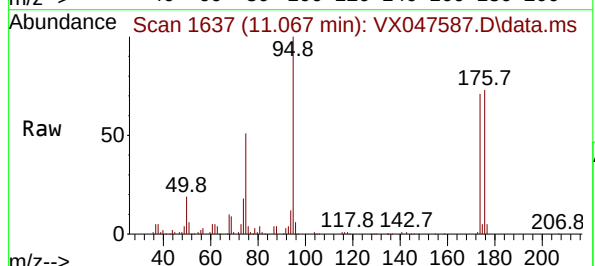
Tgt Ion: 95 Resp: 48454

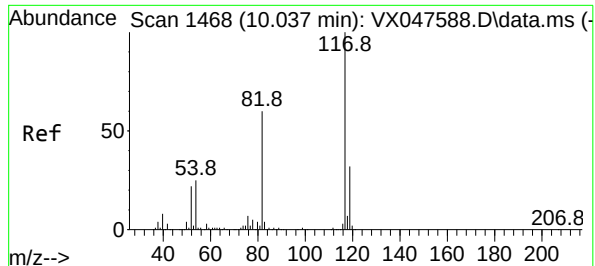
Ion Ratio Lower Upper

95 100

174 70.2 0.0 141.6

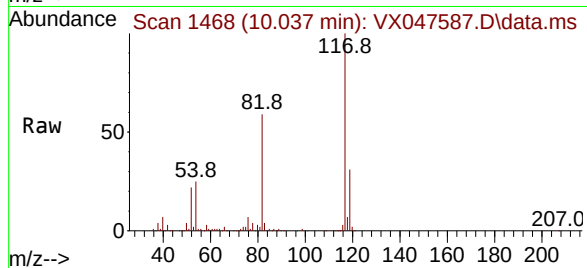
176 70.3 0.0 138.4





#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

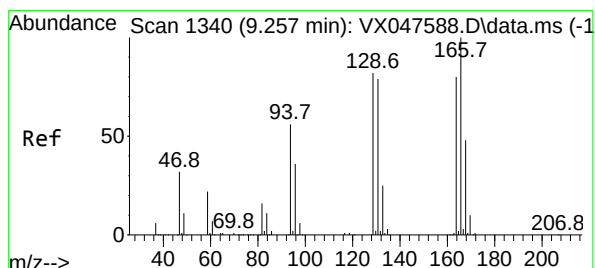
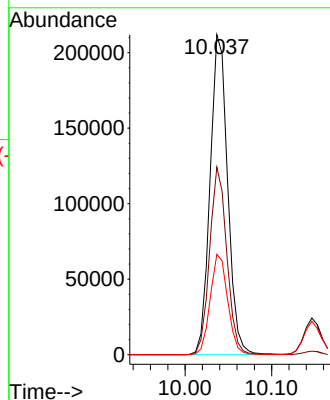
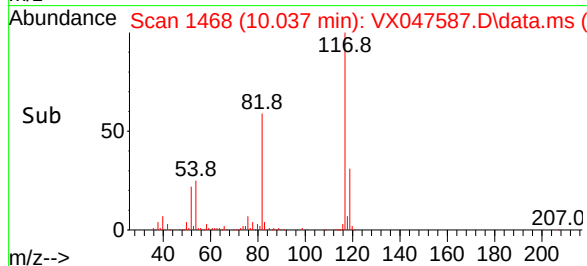
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



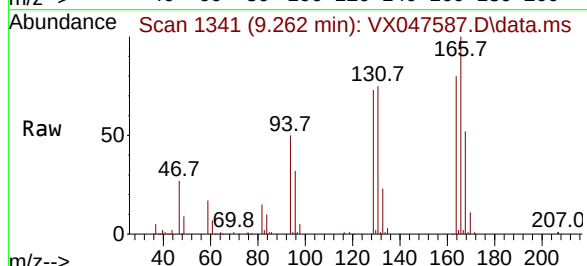
Tgt Ion:117 Resp: 298629
Ion Ratio Lower Upper
117 100
82 58.6 47.8 71.6
119 31.3 25.2 37.8

Manual Integrations
APPROVED

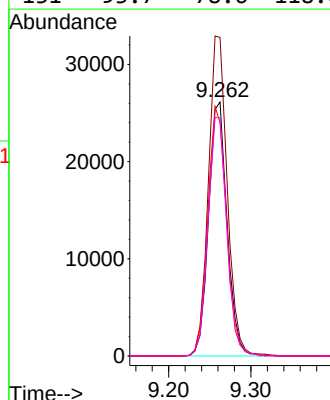
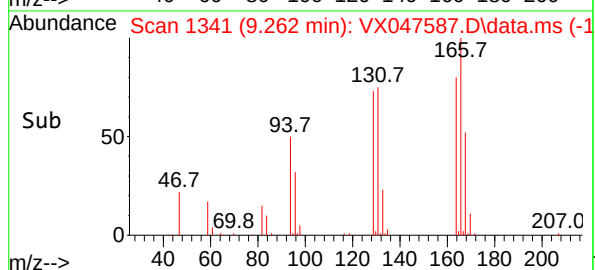
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

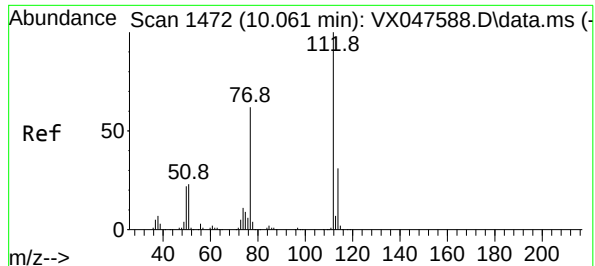


#64
Tetrachloroethene
Concen: 20.979 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37



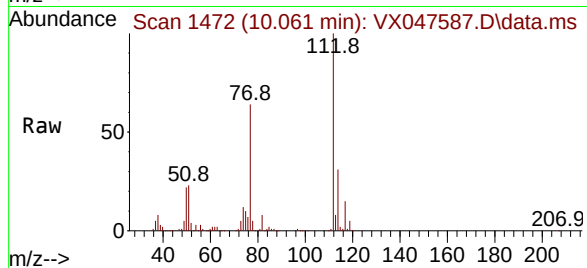
Tgt Ion:164 Resp: 40840
Ion Ratio Lower Upper
164 100
166 125.4 100.2 150.2
129 91.8 81.8 122.6
131 93.7 78.6 118.0





#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

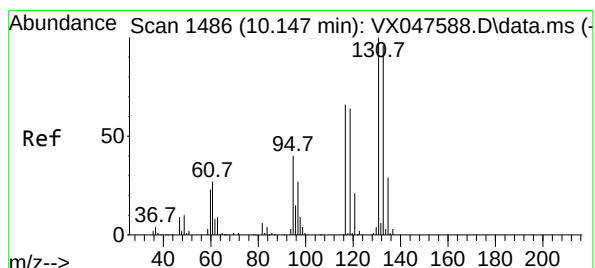
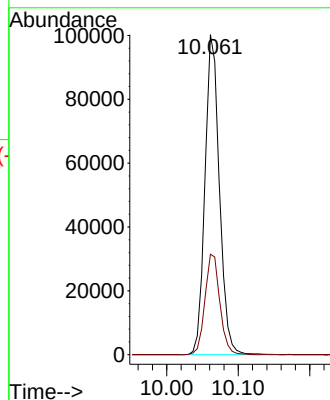
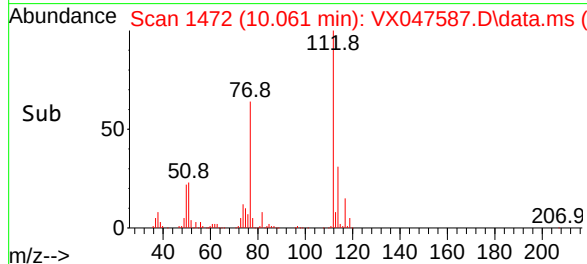
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:112 Resp: 14064
Ion Ratio Lower Upper
112 100
114 31.4 25.1 37.7

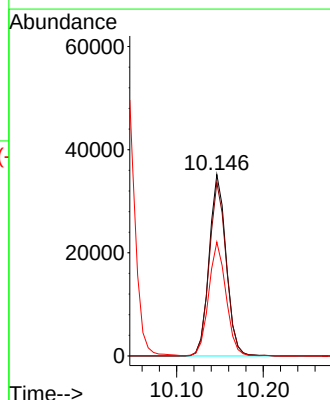
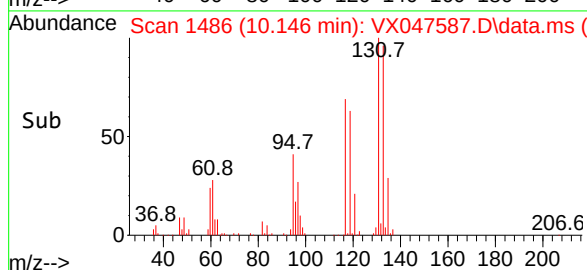
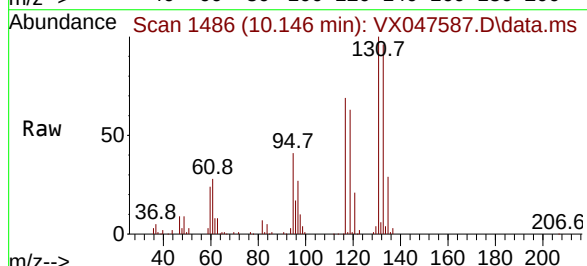
Manual Integrations
APPROVED

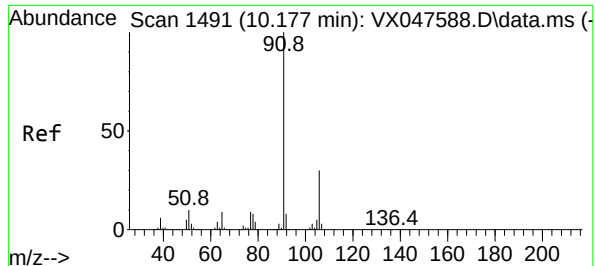
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

VSTDIC020

Tgt Ion: 91 Resp: 24473

Ion Ratio Lower Upper

91 100

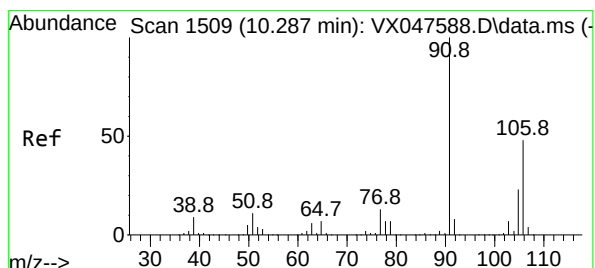
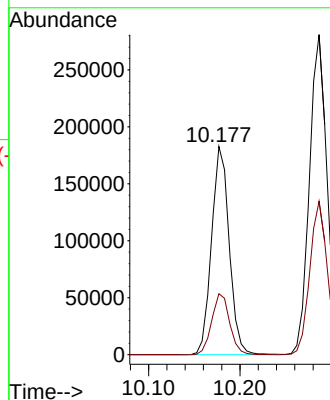
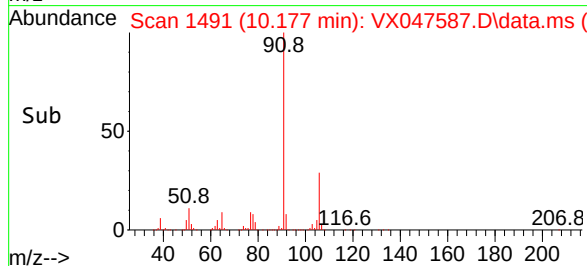
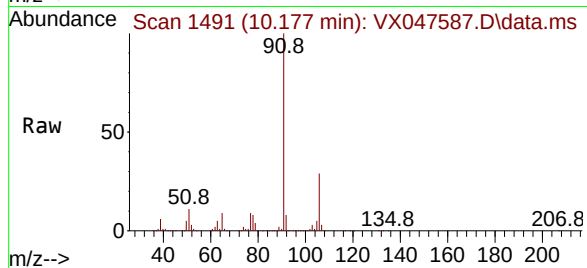
106 29.3 24.3 36.5

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

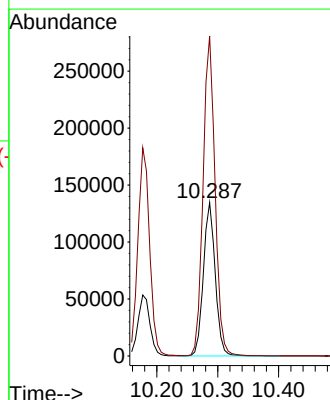
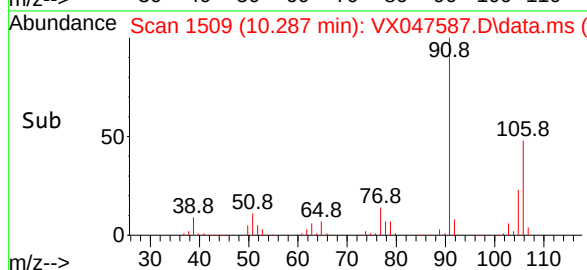
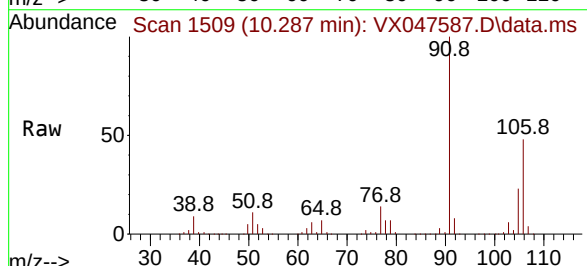
Acq: 16 Sep 2025 10:37

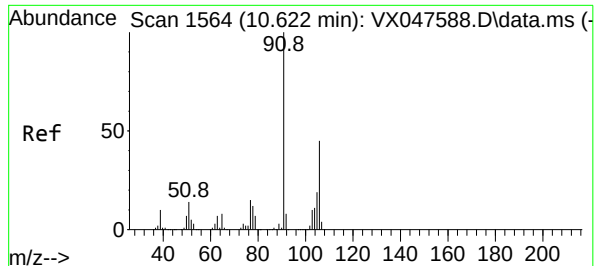
Tgt Ion:106 Resp: 182778

Ion Ratio Lower Upper

106 100

91 210.2 167.8 251.8





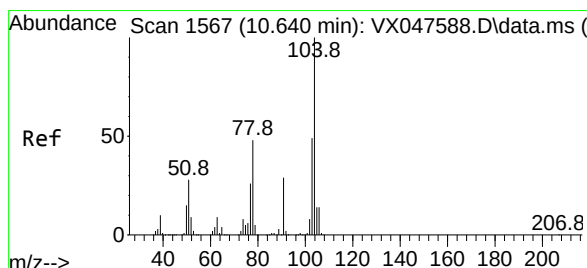
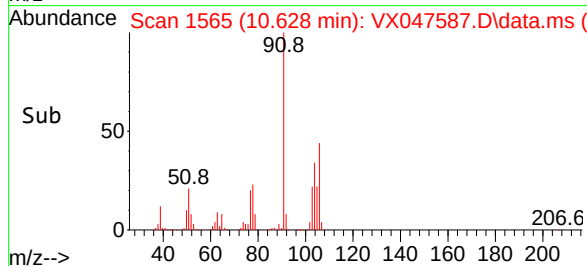
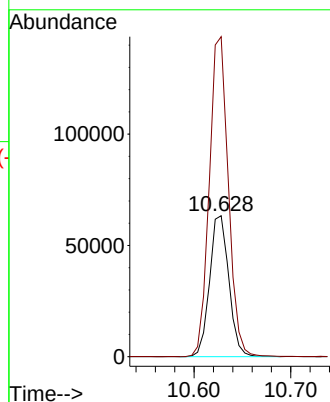
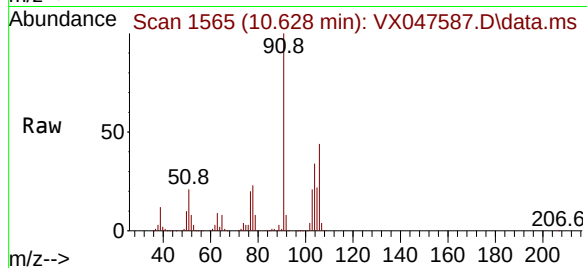
#69
o-Xylene
Concen: 20.799 ug/l
RT: 10.628 min Scan# 1565
Delta R.T. 0.006 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 8765
Ion Ratio Lower Upper
106 100
91 225.3 111.1 333.4

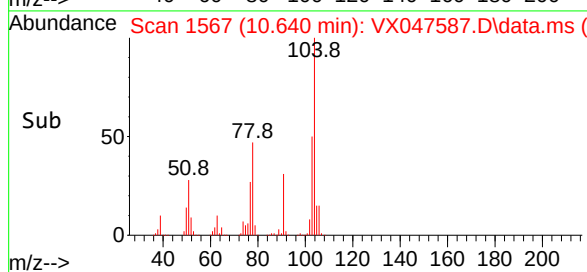
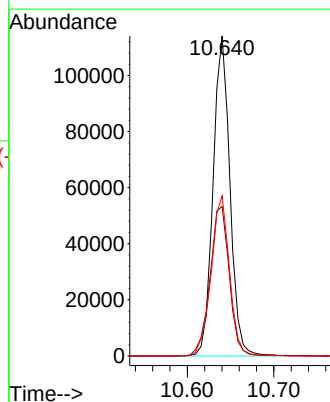
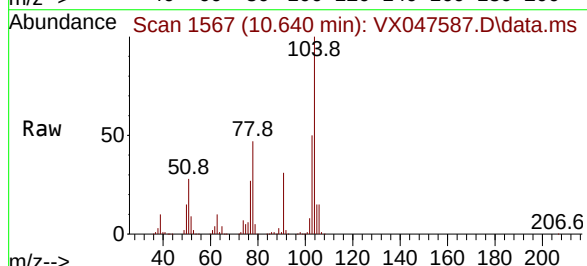
Manual Integrations
APPROVED

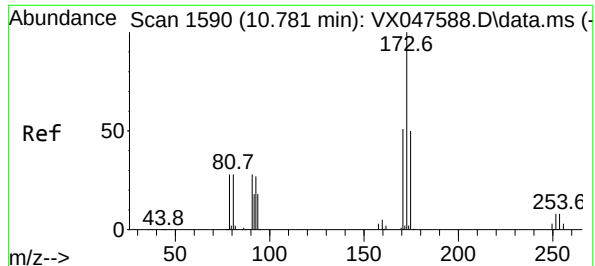
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

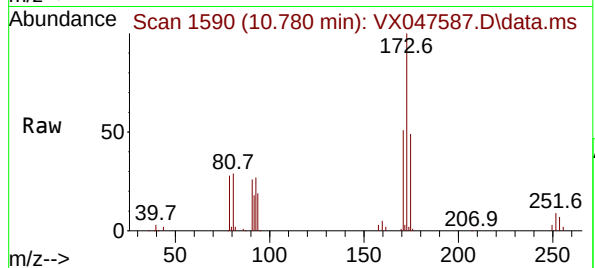
Tgt Ion:104 Resp: 154077
Ion Ratio Lower Upper
104 100
78 53.6 43.1 64.7
103 54.4 43.1 64.7





#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

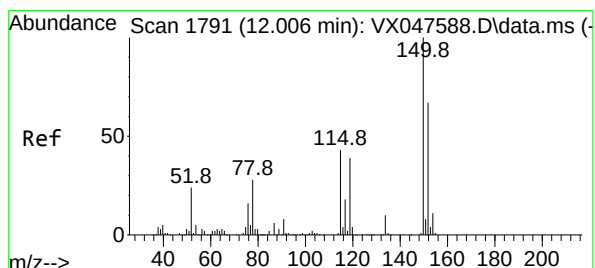
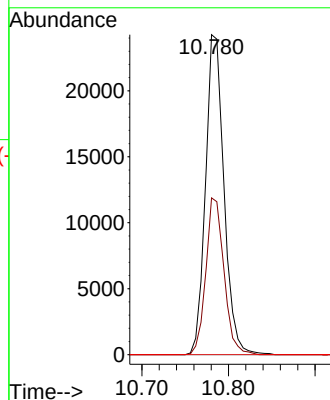
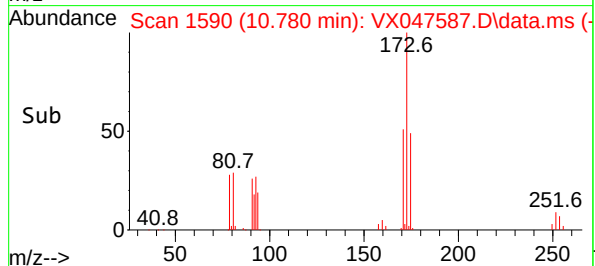
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



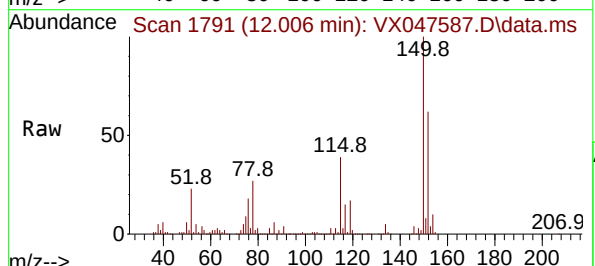
Tgt Ion:173 Resp: 3592
Ion Ratio Lower Upper
173 100
175 48.3 24.9 74.6
254 0.0 0.1 0.1

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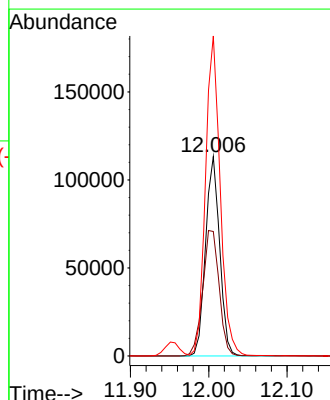
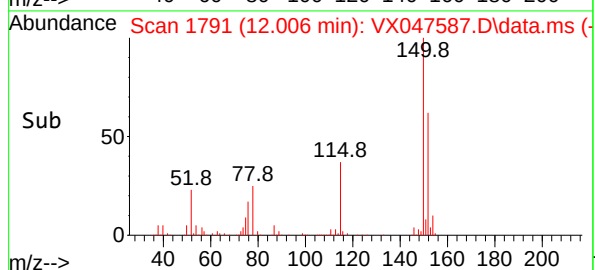
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

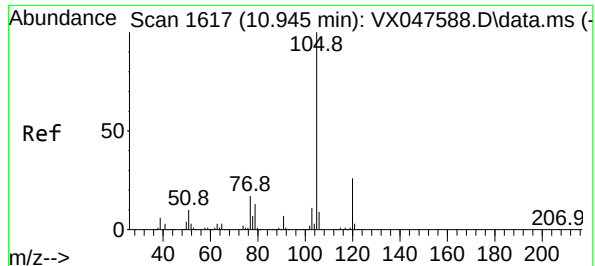


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37



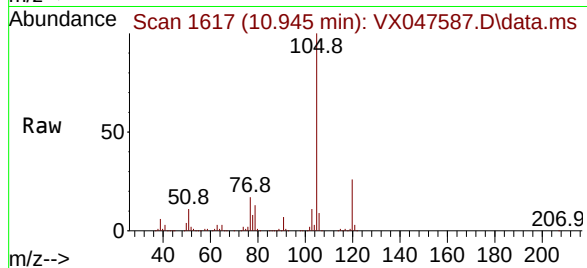
Tgt Ion:152 Resp: 141590
Ion Ratio Lower Upper
152 100
115 73.2 44.9 134.5
150 167.1 0.0 352.0





#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

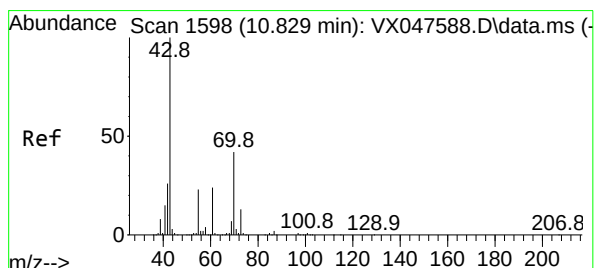
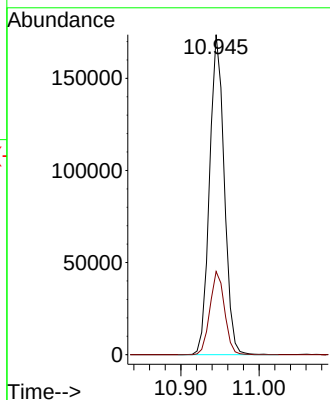
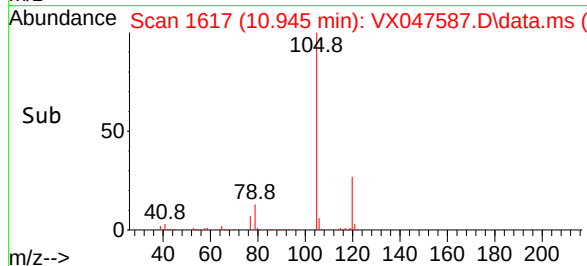
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



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

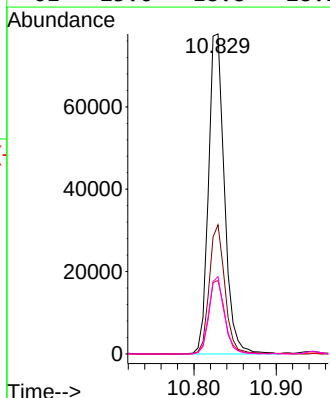
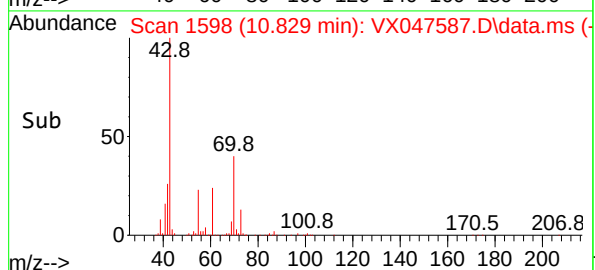
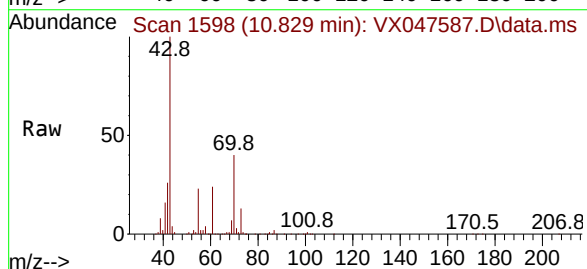
Manual Integrations
APPROVED

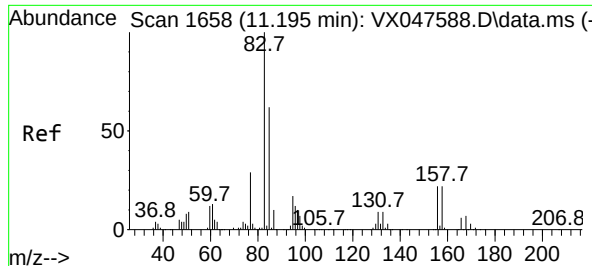
Reviewed By : John Carlone 09/17/2025
Supervised By : Mahesh Dadoda 09/18/2025



#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





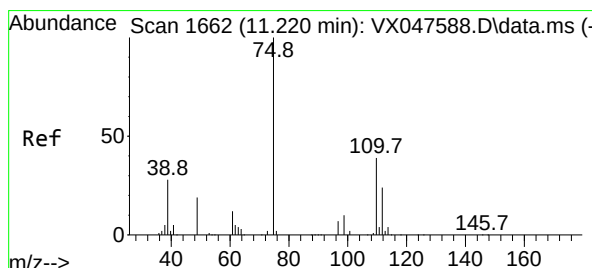
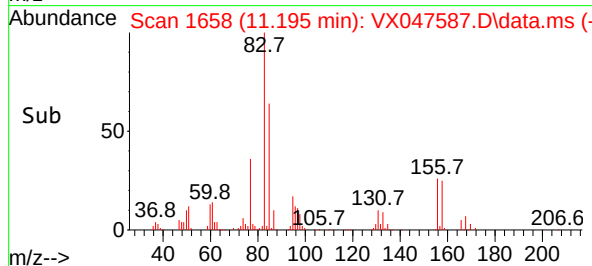
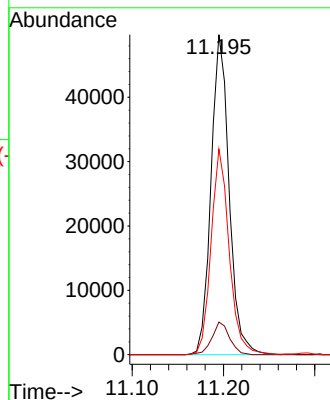
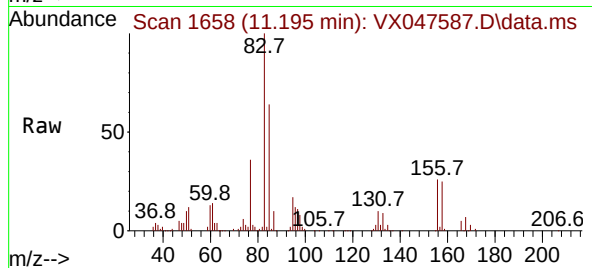
#75
1,1,2,2-Tetrachloroethane
Concen: 20.920 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

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

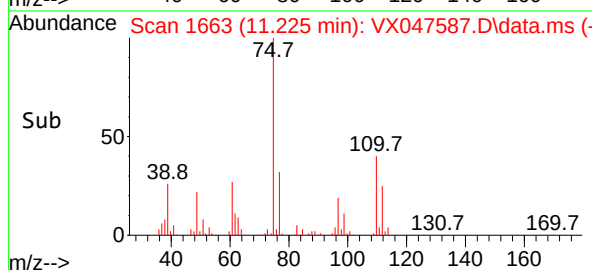
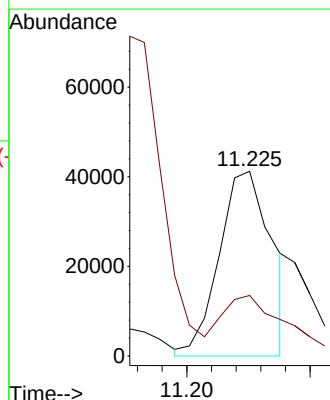
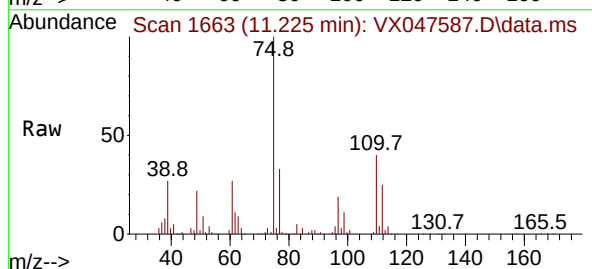
Manual Integrations
APPROVED

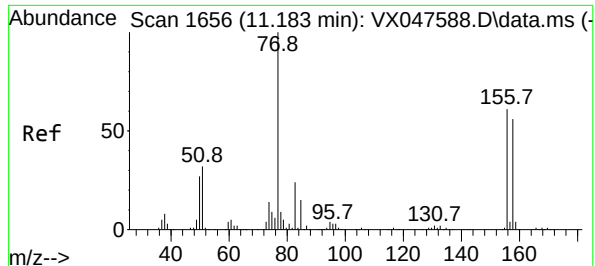
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

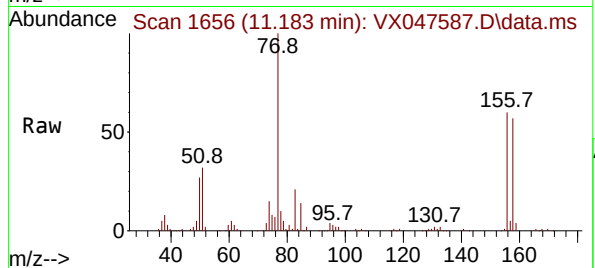
Tgt Ion: 75 Resp: 60797
Ion Ratio Lower Upper
75 100
77 39.6 18.8 56.4





#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

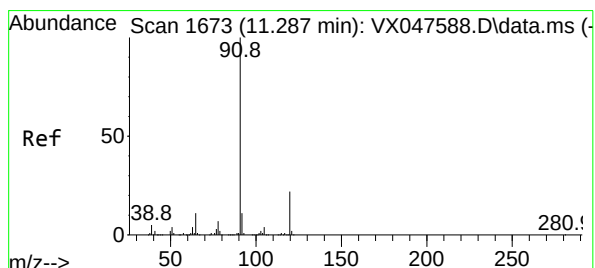
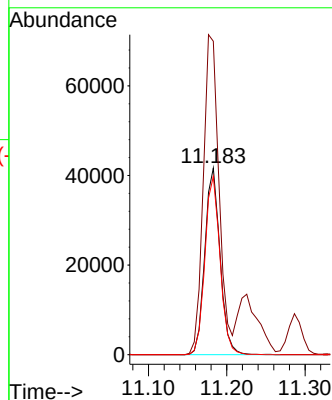
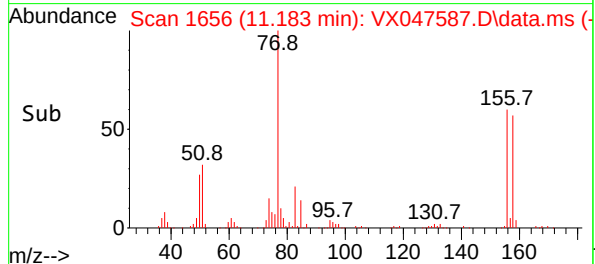
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



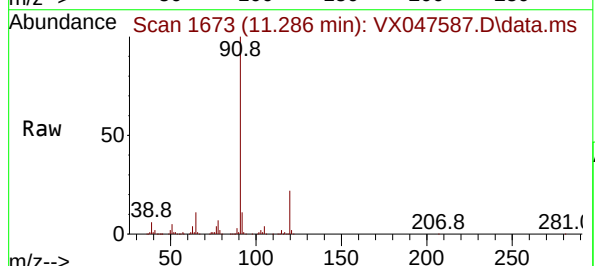
Tgt Ion:156 Resp: 5616
Ion Ratio Lower Upper
156 100
77 177.4 89.7 269.1
158 95.2 47.9 143.6

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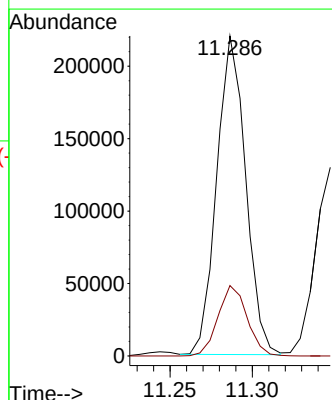
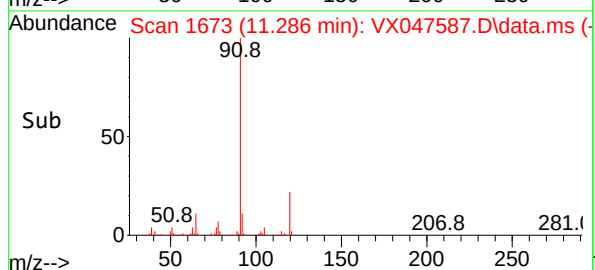
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

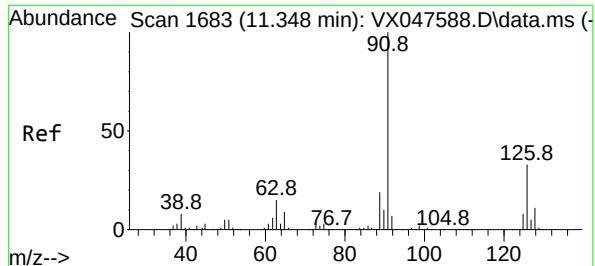


#78
n-propylbenzene
Concen: 21.092 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37



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

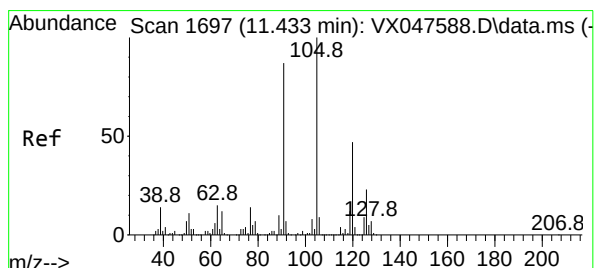
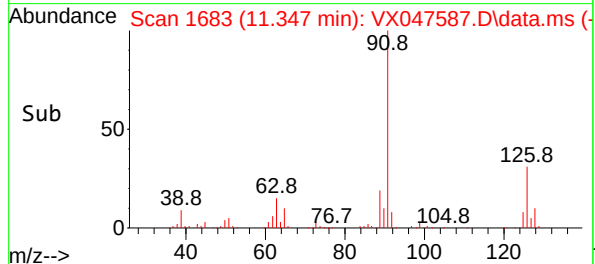
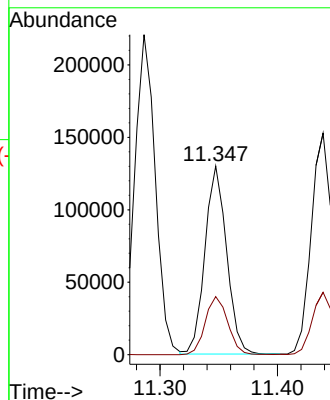
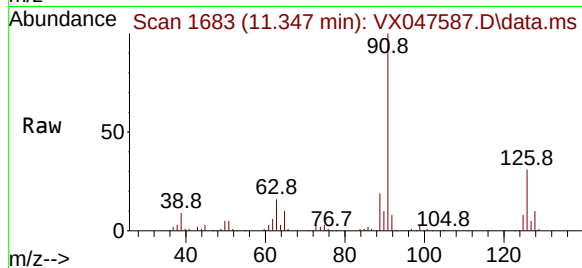
126 32.1 16.1 48.3

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

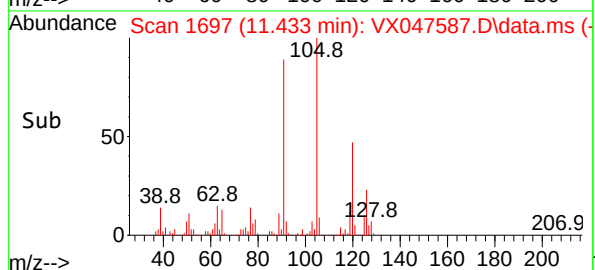
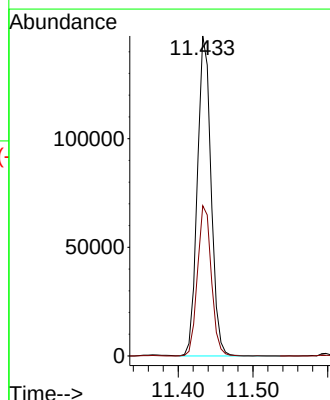
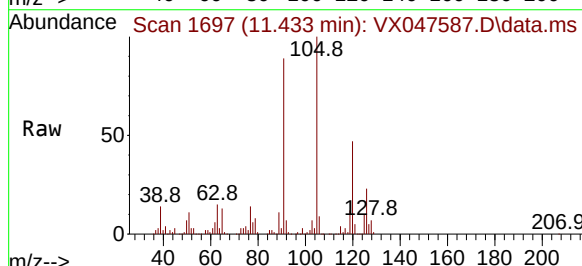
Acq: 16 Sep 2025 10:37

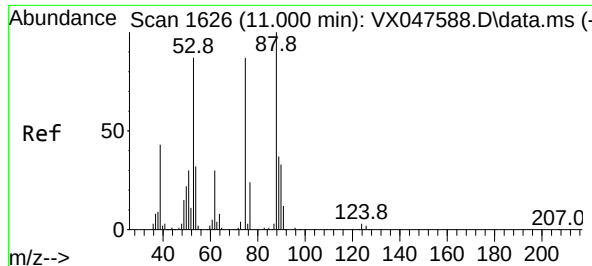
Tgt Ion:105 Resp: 187513

Ion Ratio Lower Upper

105 100

120 47.4 23.6 70.8





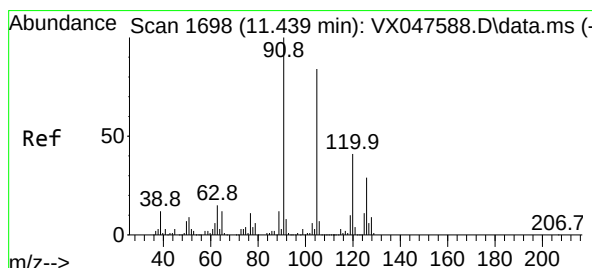
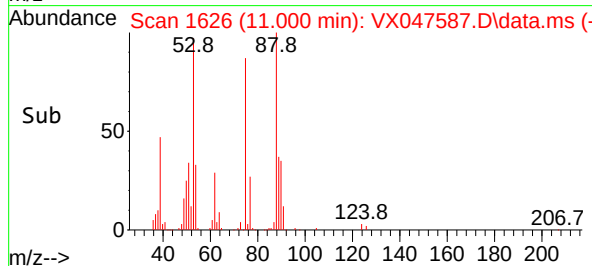
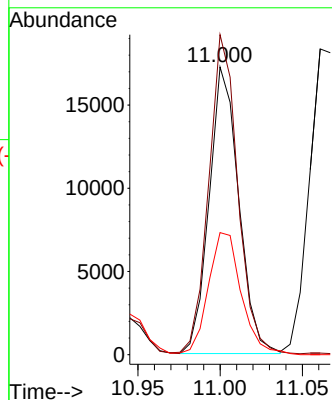
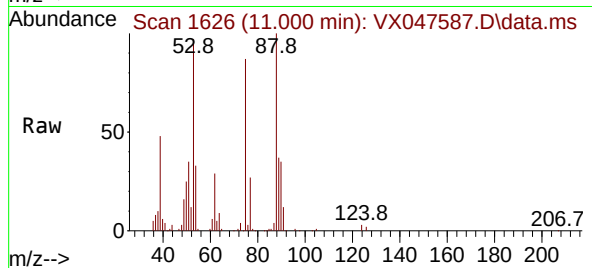
#81
trans-1,4-Dichloro-2-butene
Concen: 19.173 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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

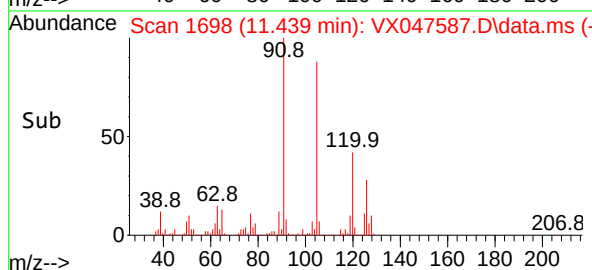
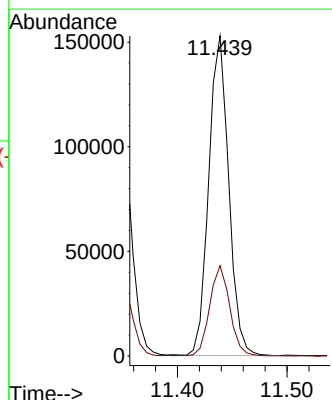
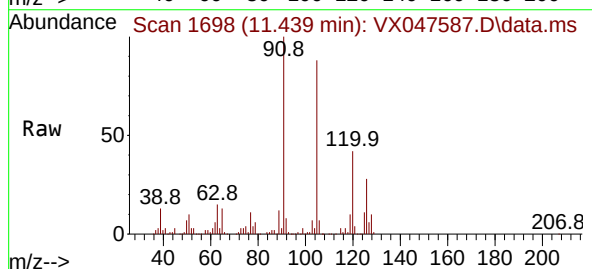
Manual Integrations
APPROVED

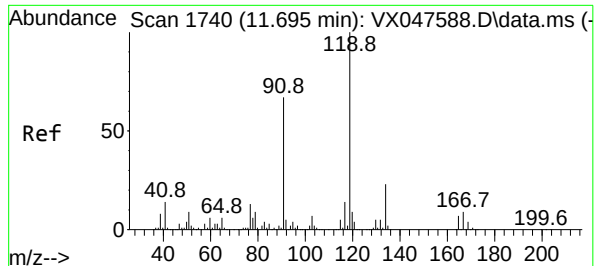
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

VSTDICC020

Tgt Ion:119 Resp: 189484

Ion Ratio Lower Upper

119 100

91 59.2 29.6 88.8

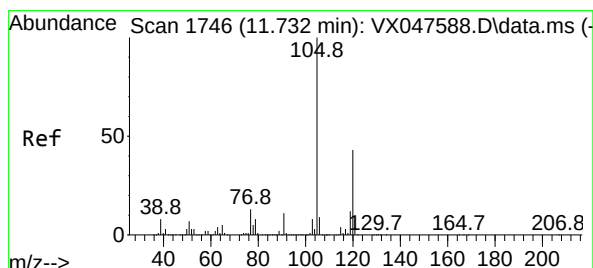
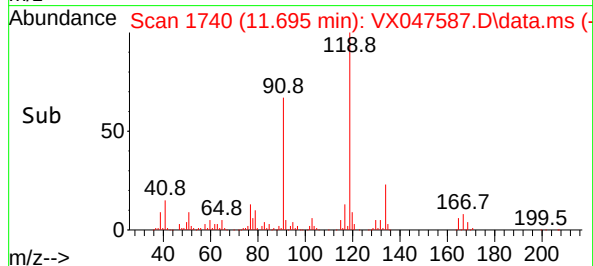
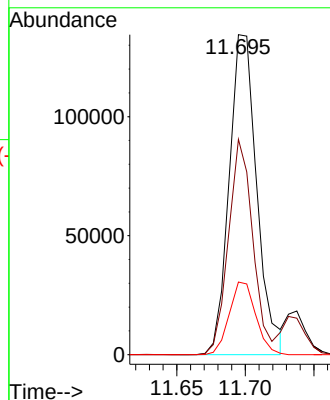
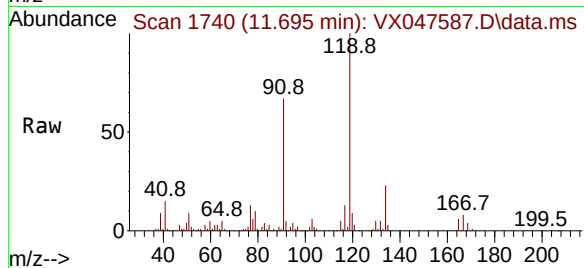
134 21.8 11.0 33.0

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

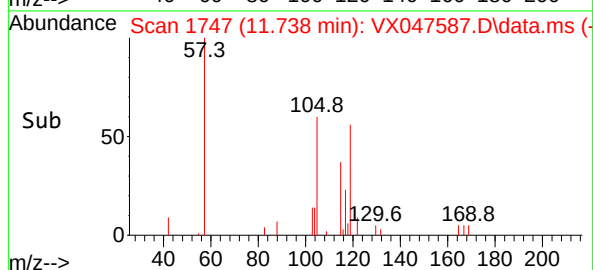
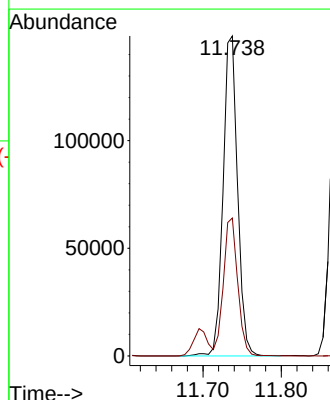
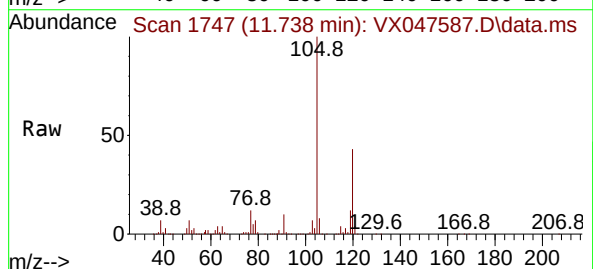
Acq: 16 Sep 2025 10:37

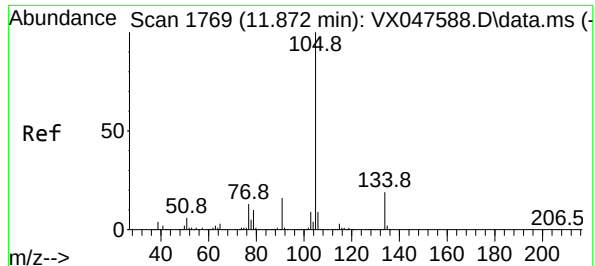
Tgt Ion:105 Resp: 191477

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

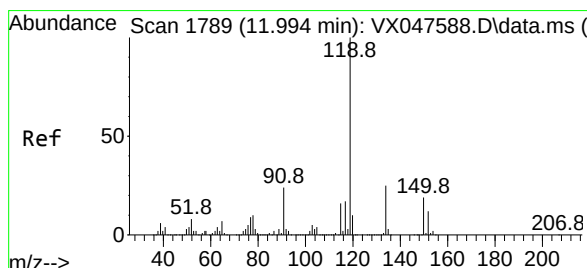
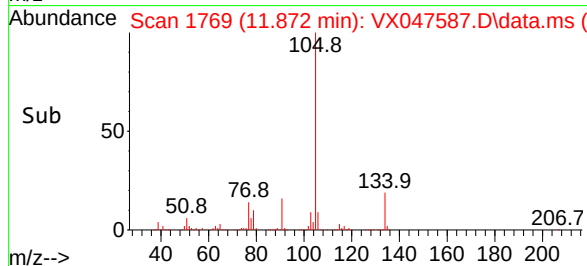
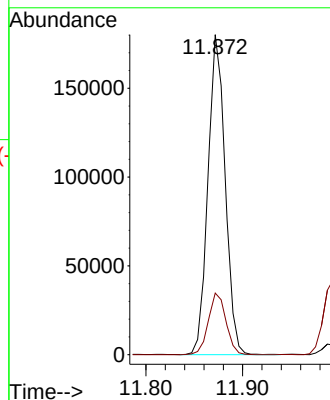
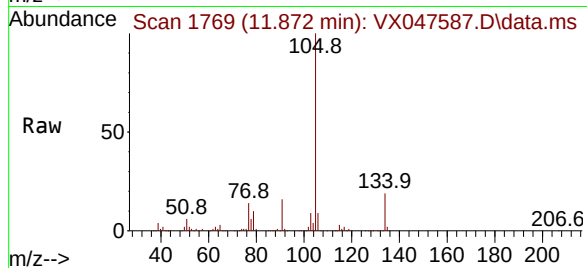
134 19.7 9.8 29.5

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

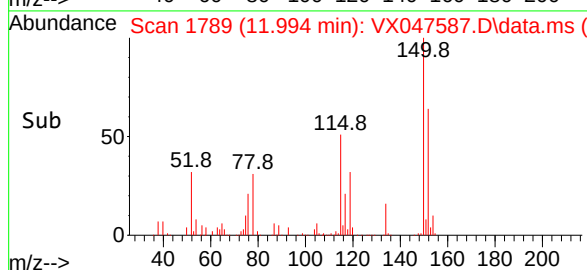
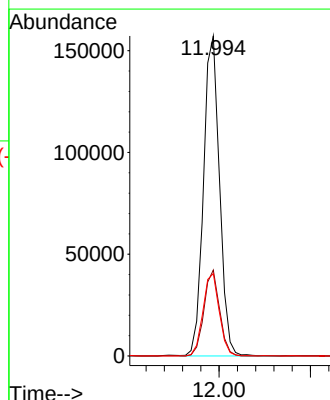
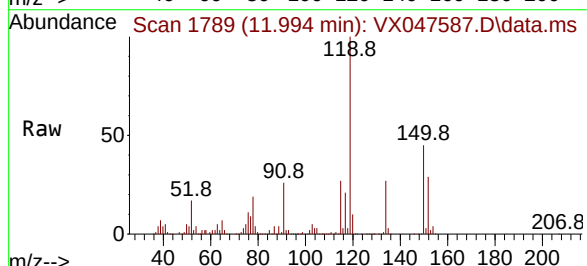
Tgt Ion:119 Resp: 190931

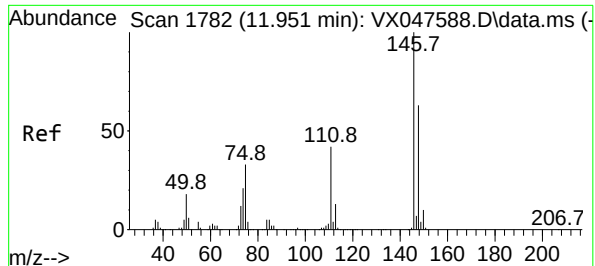
Ion Ratio Lower Upper

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# 11

Delta R.T. -0.000 min

Lab File: VX047587.D

Acq: 16 Sep 2025 10:37

Instrument :

MSVOA_X

ClientSampleId :

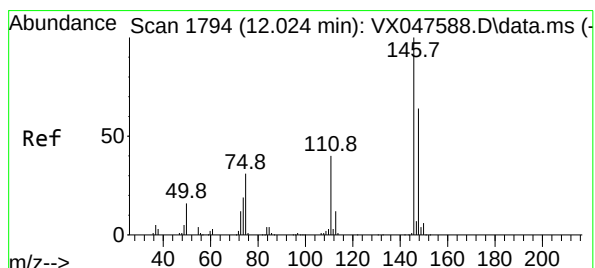
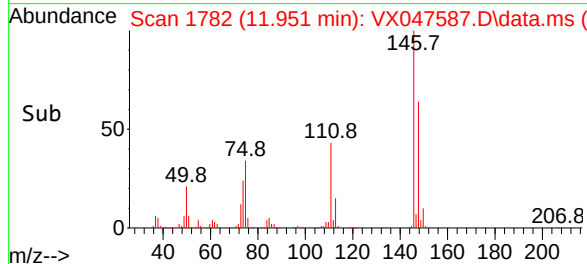
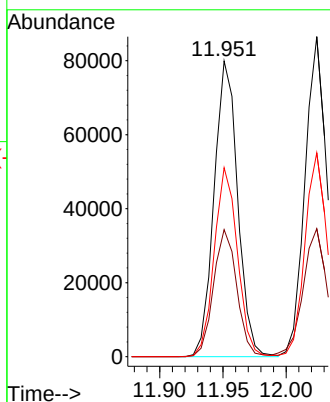
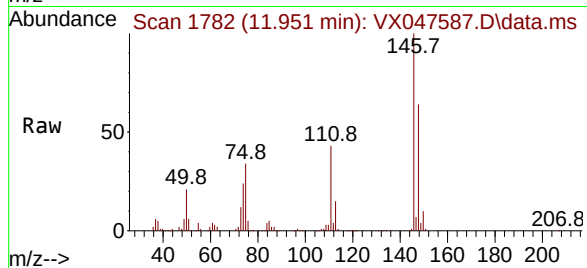
VSTDIC020

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

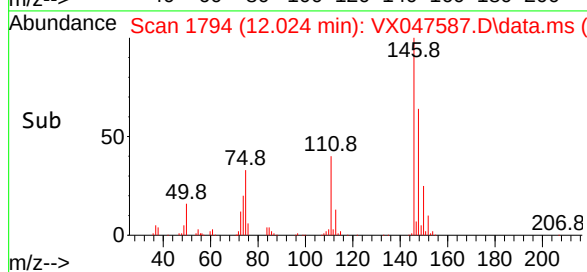
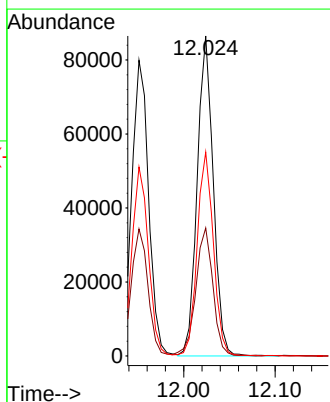
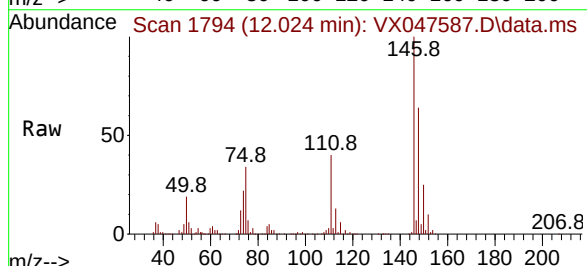
RT: 12.024 min Scan# 1794

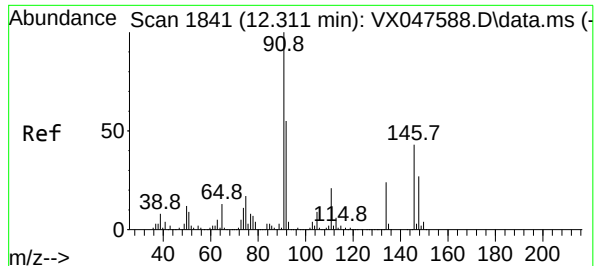
Delta R.T. -0.000 min

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

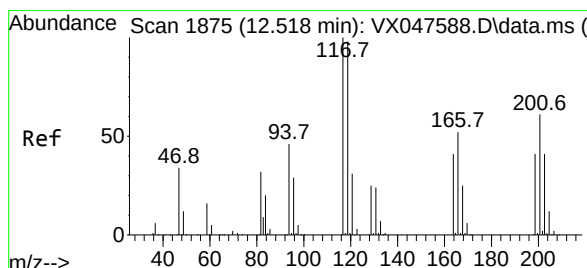
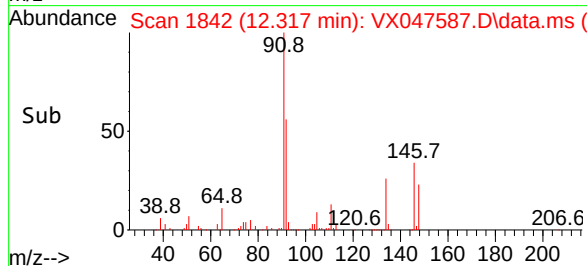
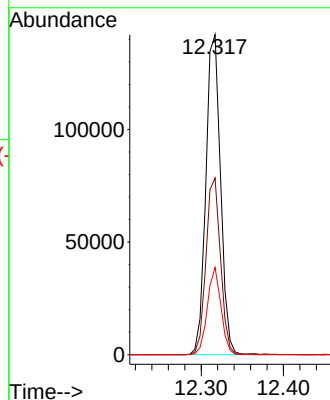
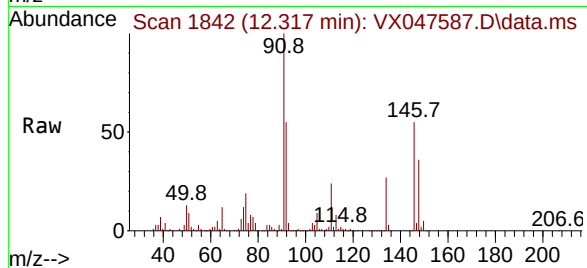
134 25.3 12.6 37.8

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

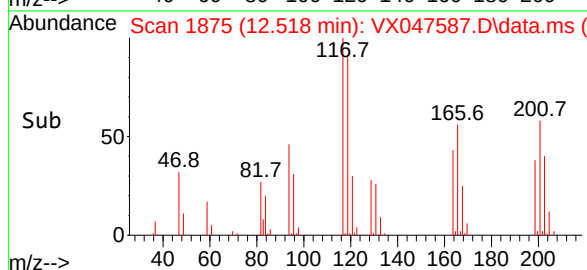
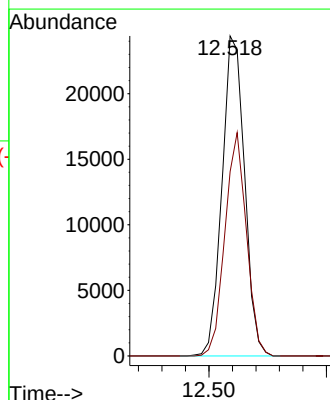
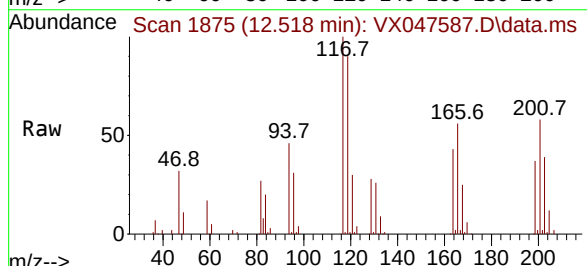
Acq: 16 Sep 2025 10:37

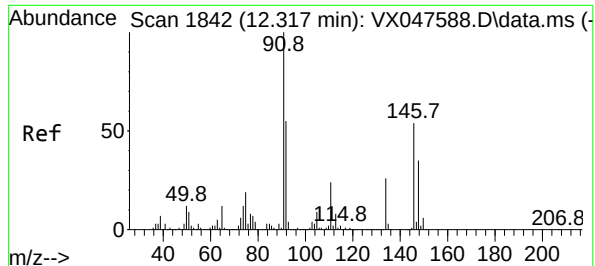
Tgt Ion:117 Resp: 32526

Ion Ratio Lower Upper

117 100

201 66.6 34.2 102.5





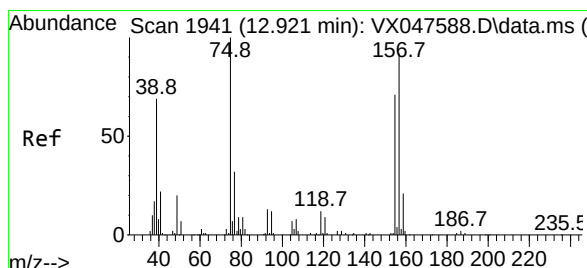
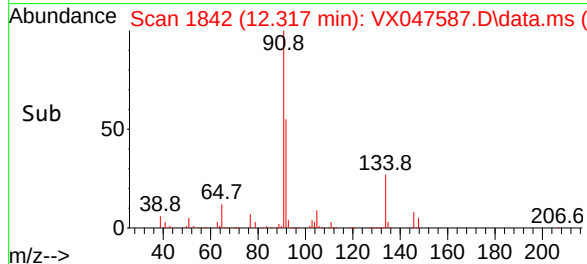
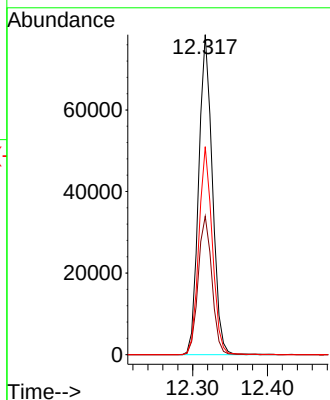
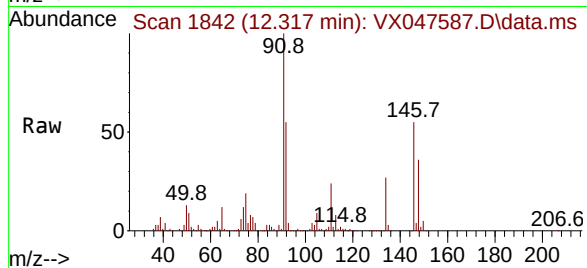
#91
1,2-Dichlorobenzene
Concen: 21.207 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047587.D
Acq: 16 Sep 2025 10:37

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

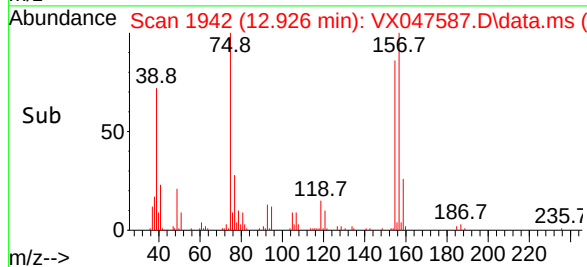
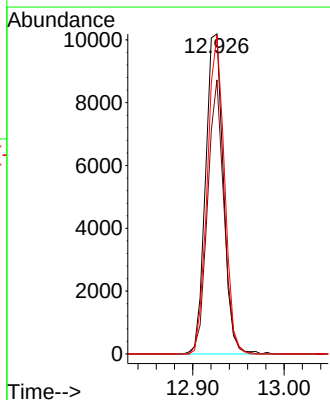
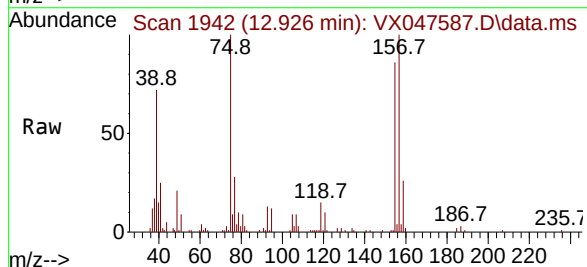
Manual Integrations
APPROVED

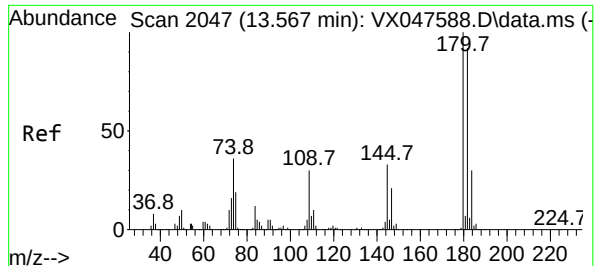
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

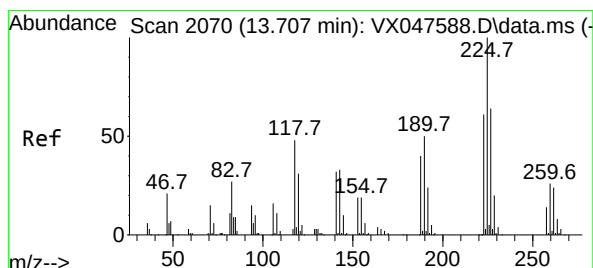
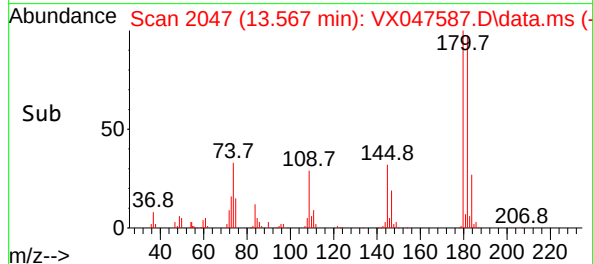
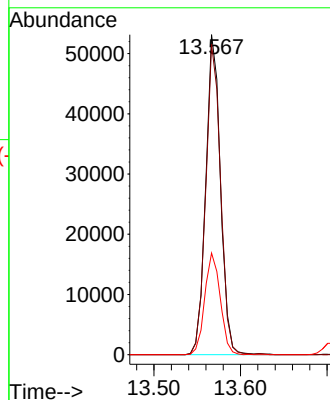
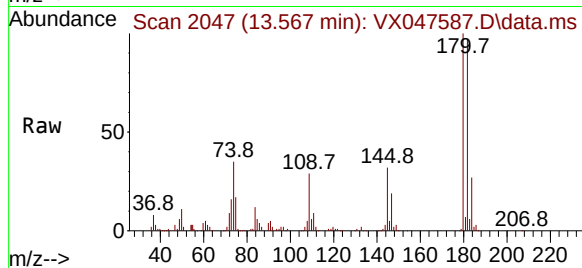
ClientSampleId :

VSTDIC020

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

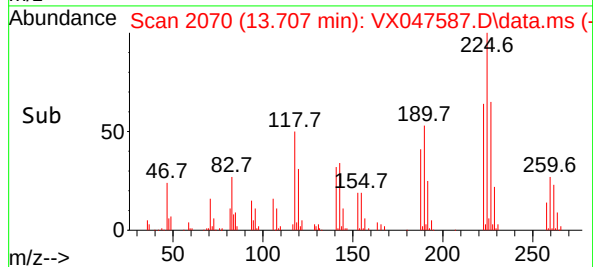
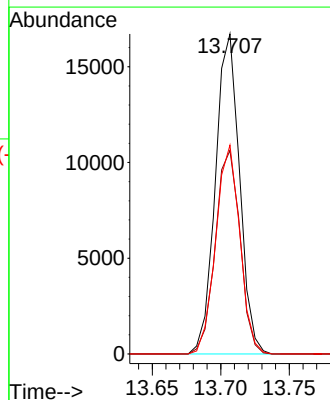
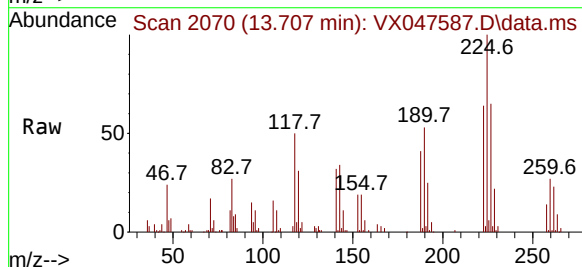
RT: 13.707 min Scan# 2070

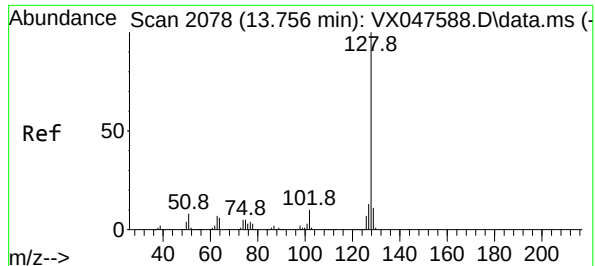
Delta R.T. -0.000 min

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 :

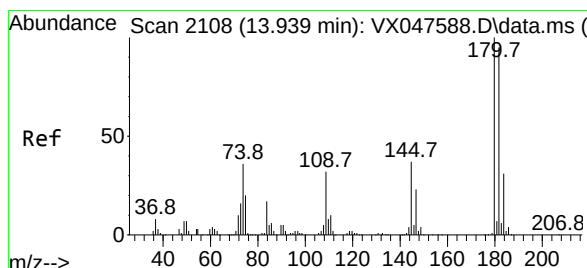
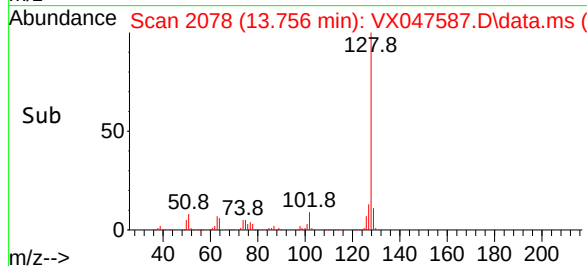
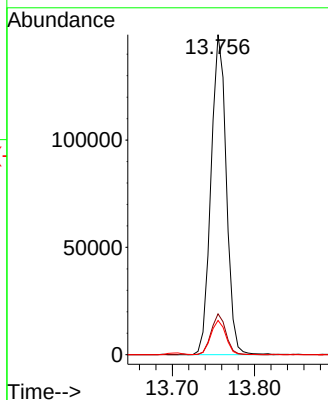
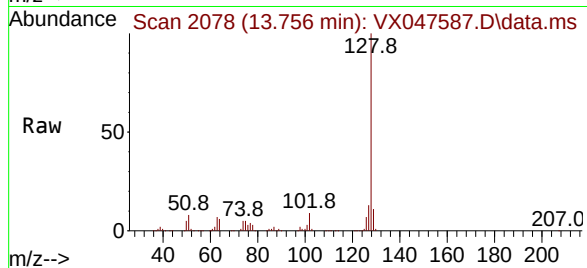
VSTDICC020

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

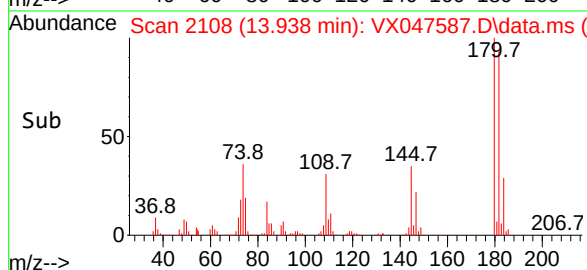
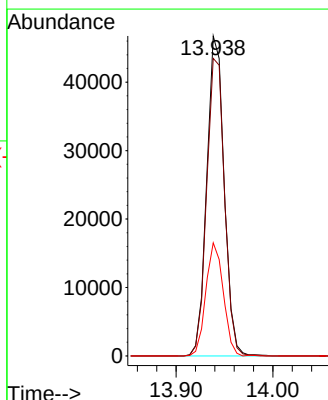
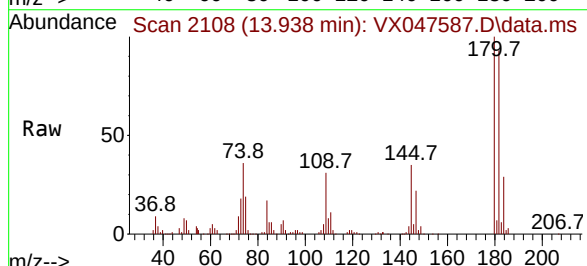
RT: 13.938 min Scan# 2108

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

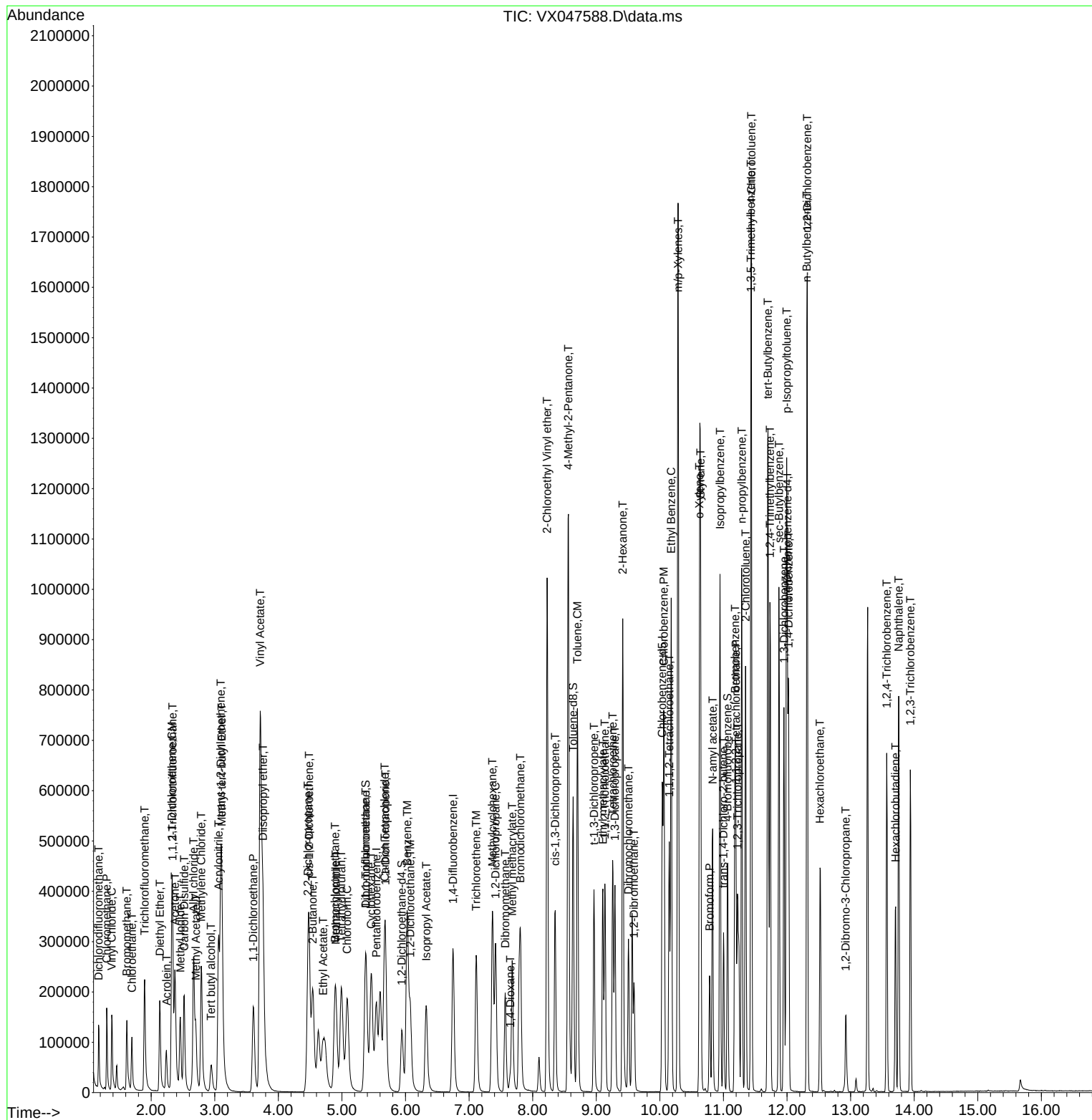
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091625\
Data File : VX047588.D
Acq On : 16 Sep 2025 10:58
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

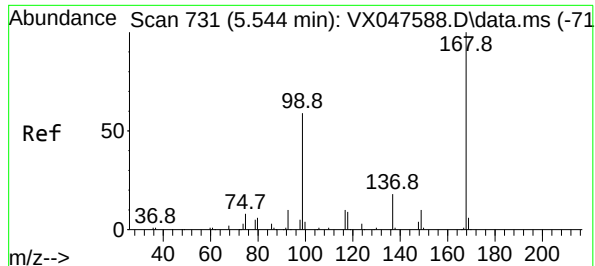
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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





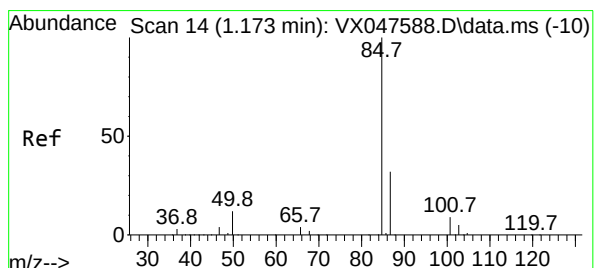
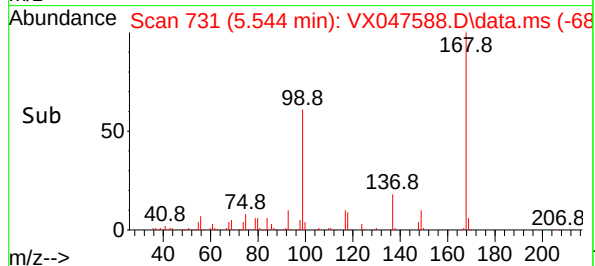
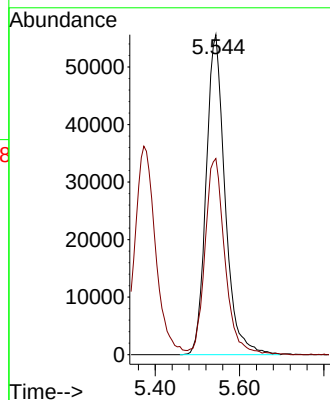
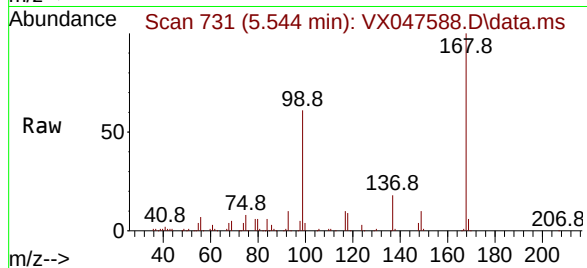
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 17340
Ion Ratio Lower Upper
168 100
99 61.0 48.8 73.2

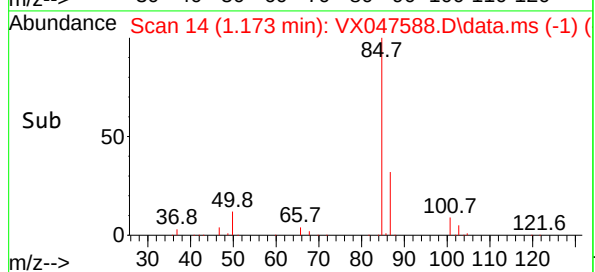
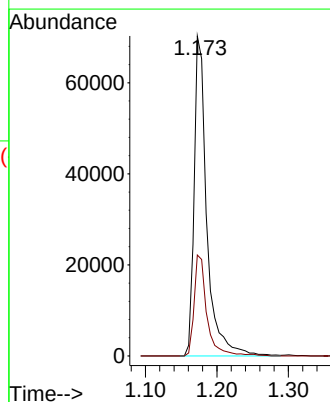
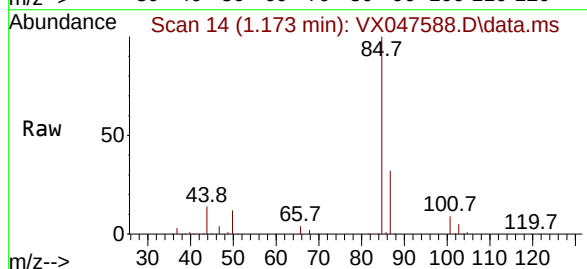
Manual Integrations
APPROVED

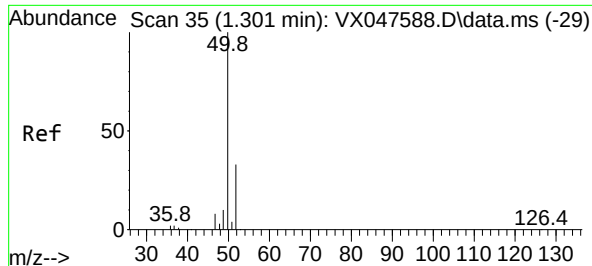
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





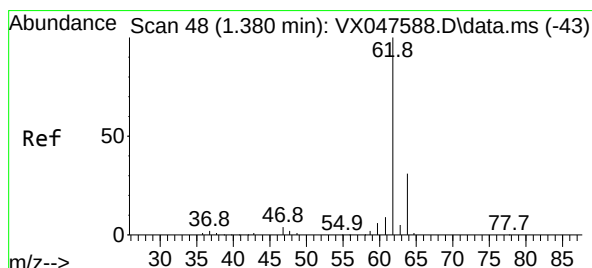
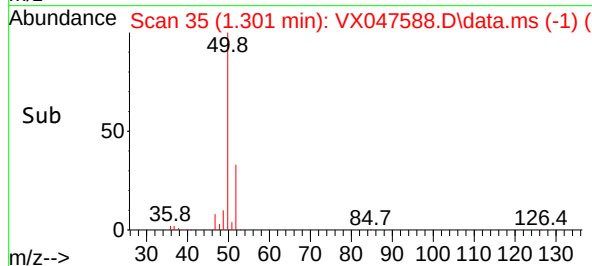
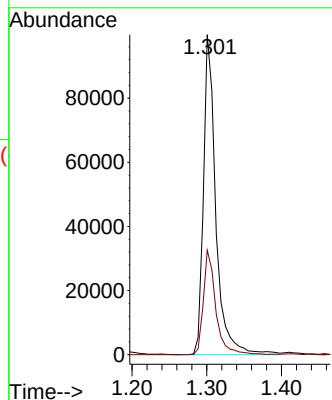
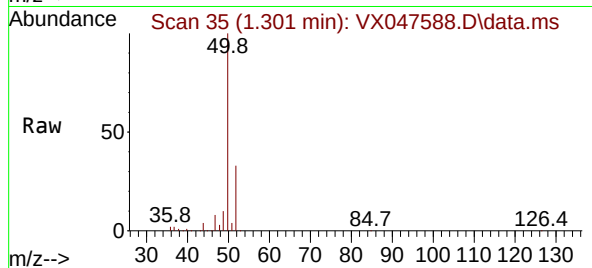
#3
Chloromethane
Concen: 48.594 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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

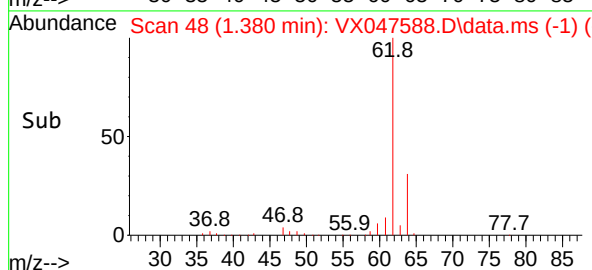
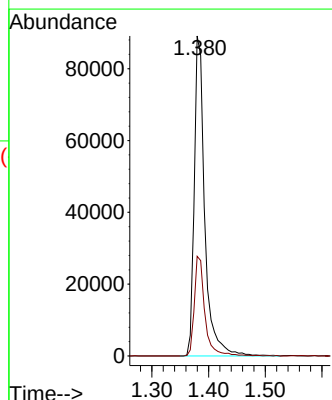
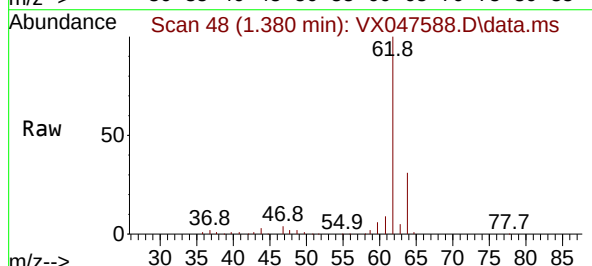
Manual Integrations
APPROVED

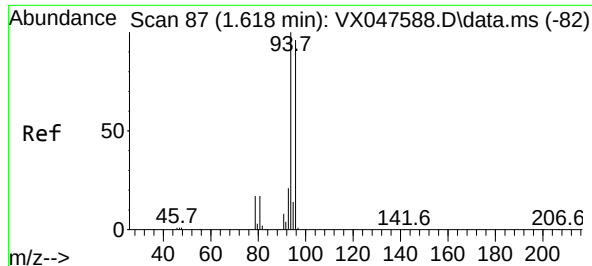
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





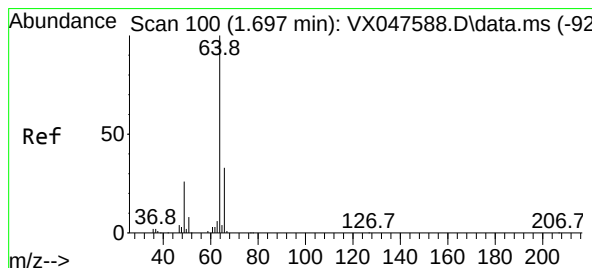
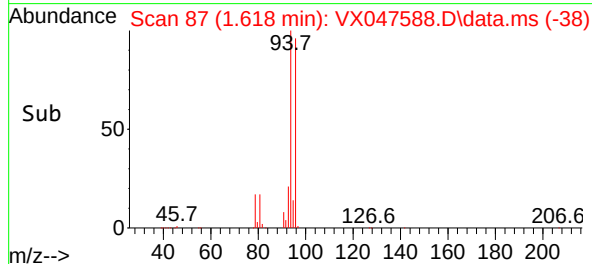
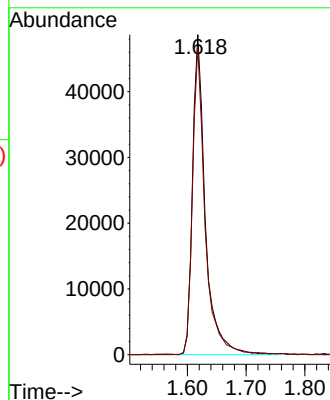
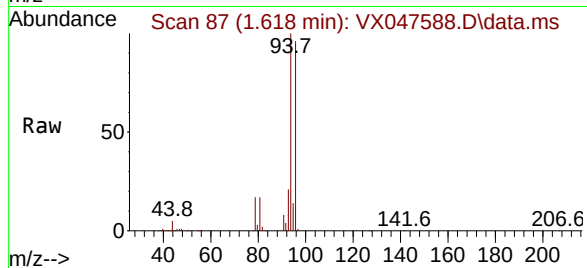
#5
Bromomethane
Concen: 50.216 ug/l
RT: 1.618 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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

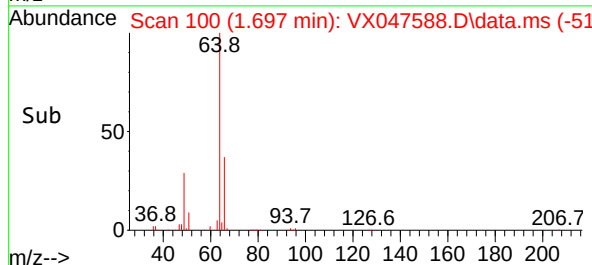
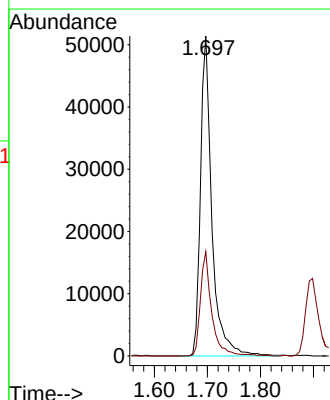
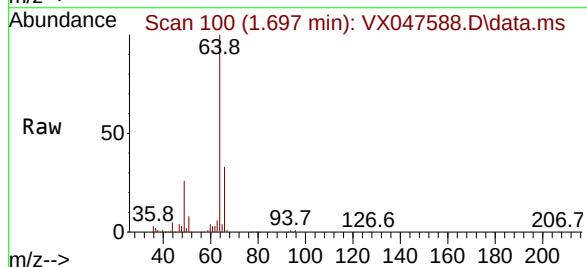
Manual Integrations
APPROVED

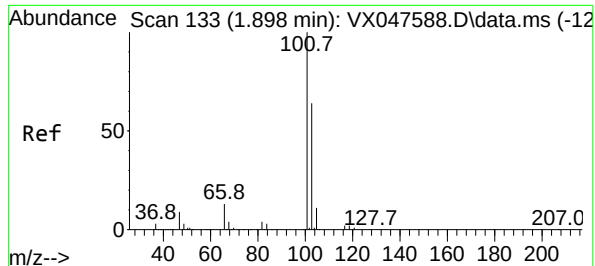
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





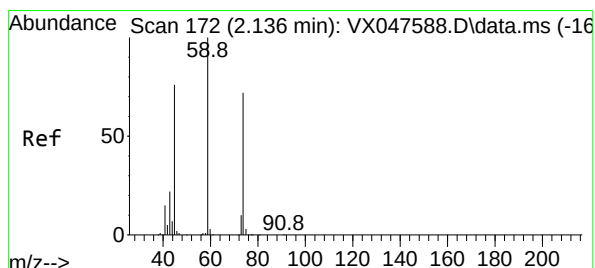
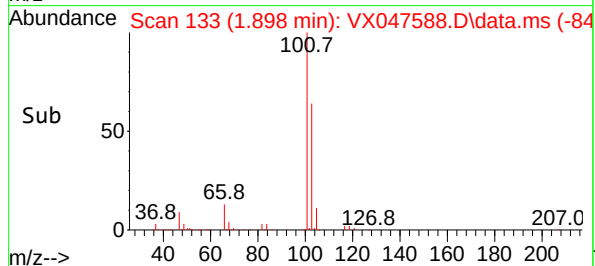
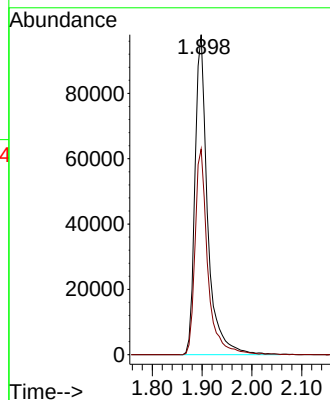
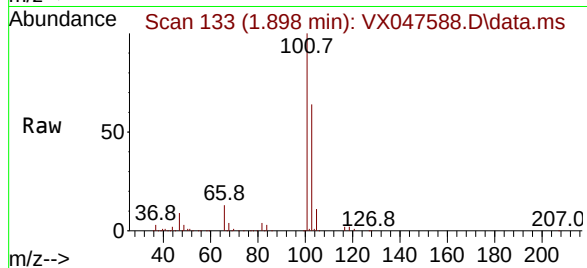
#7
Trichlorofluoromethane
Concen: 50.307 ug/l
RT: 1.898 min Scan# 133
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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

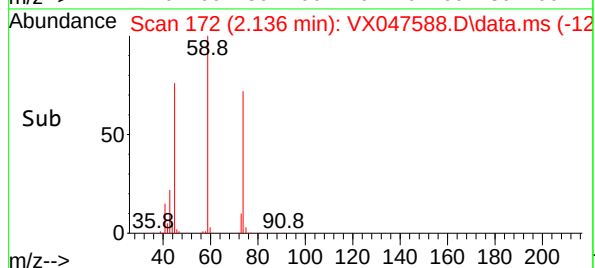
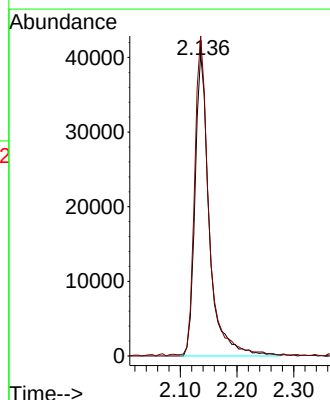
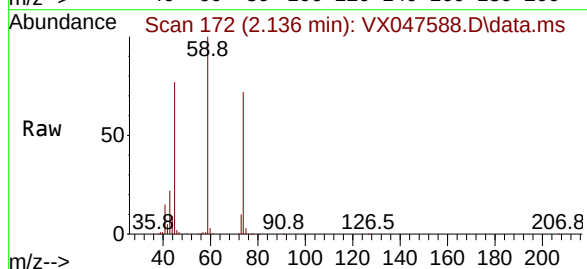
Manual Integrations
APPROVED

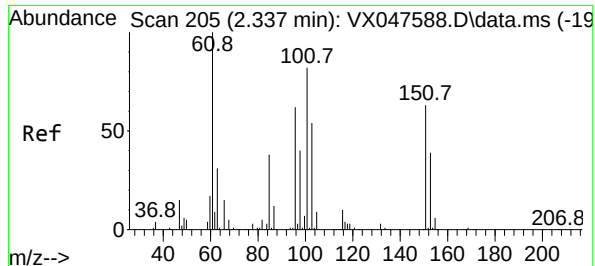
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

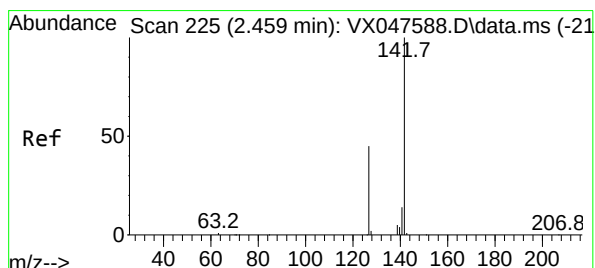
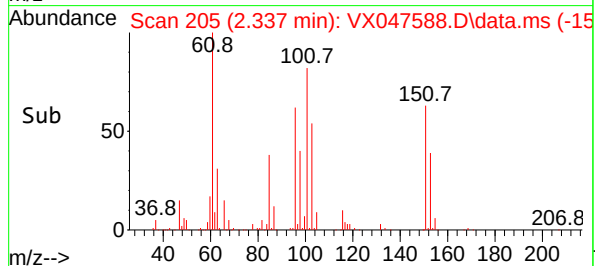
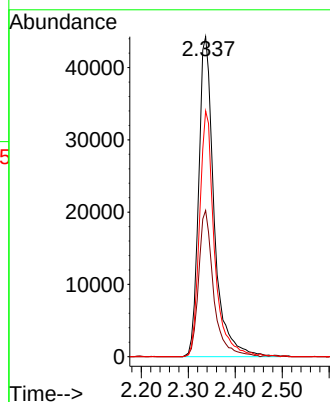
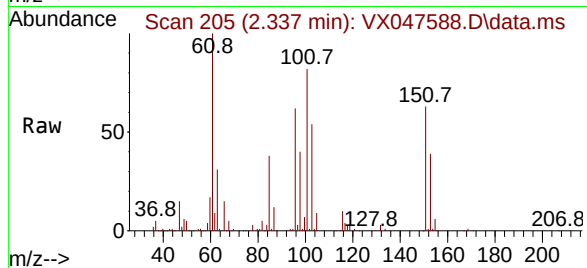
VSTDICCC050

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

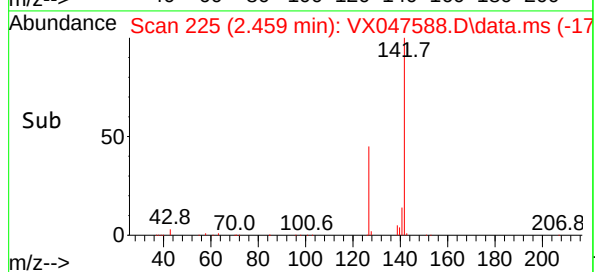
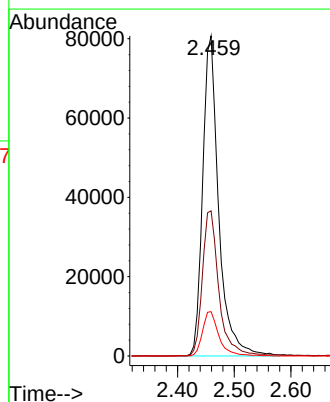
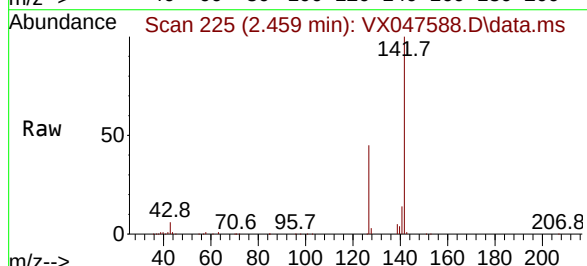
RT: 2.459 min Scan# 225

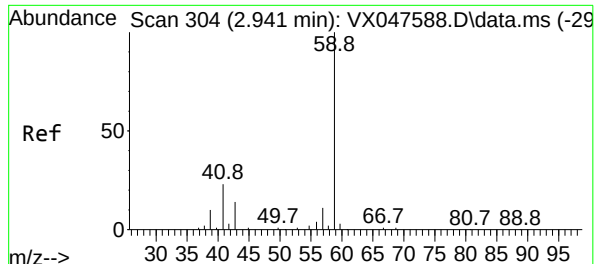
Delta R.T. 0.000 min

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

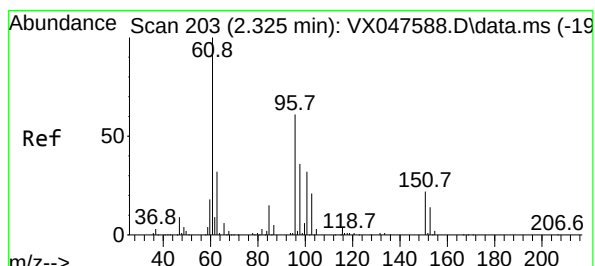
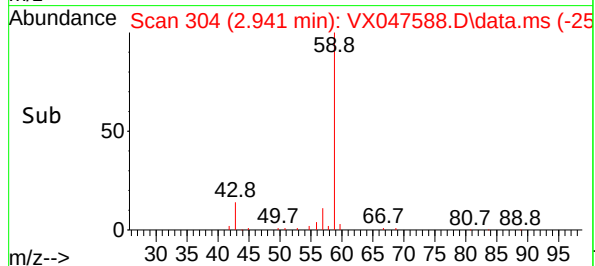
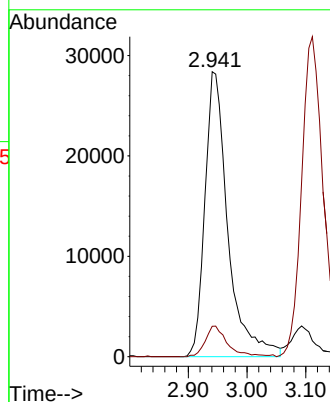
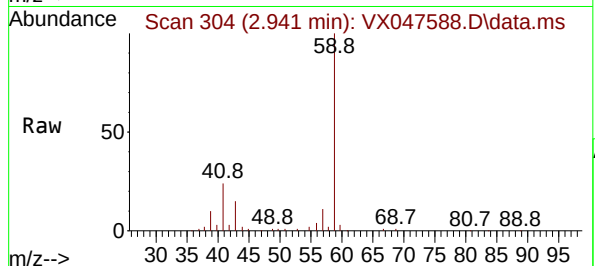
57 10.4 8.3 12.5

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

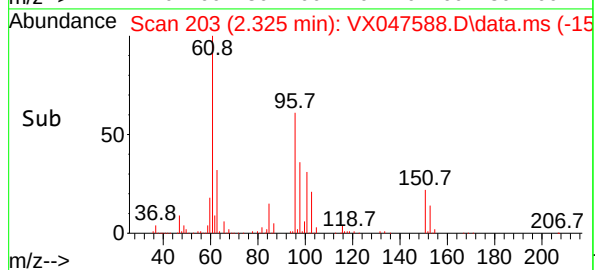
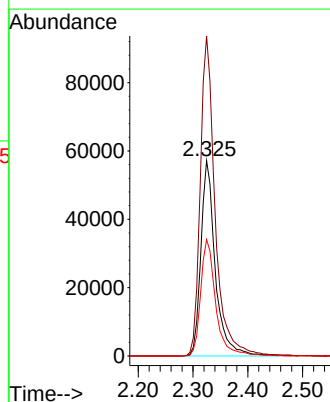
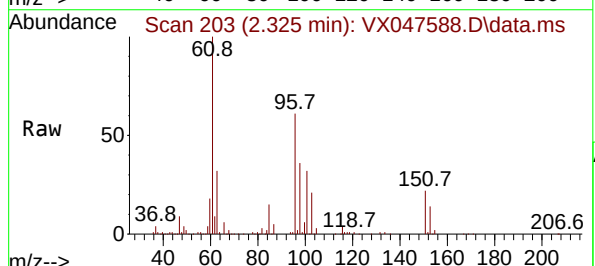
Tgt Ion: 96 Resp: 104724

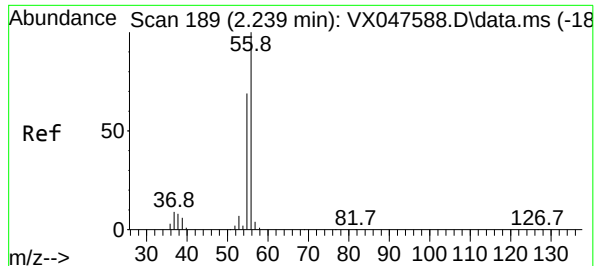
Ion Ratio Lower Upper

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

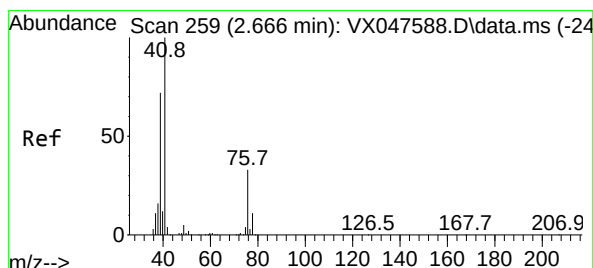
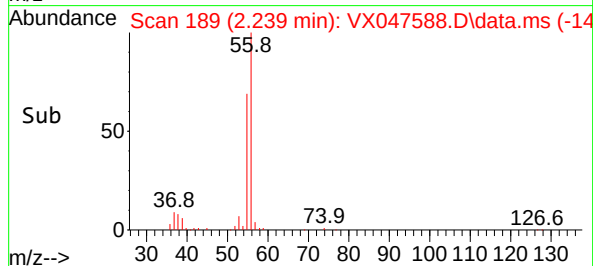
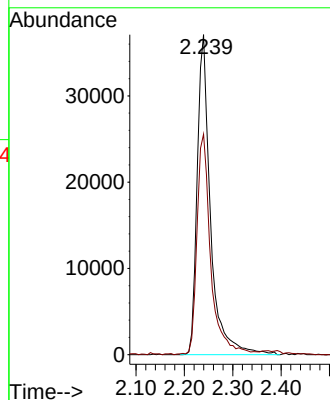
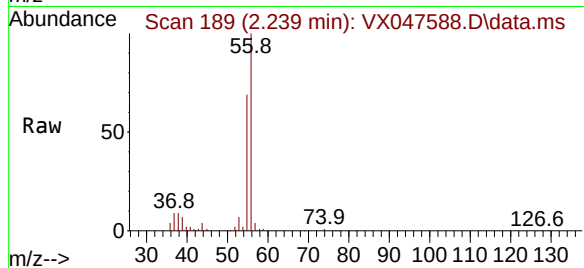
55 71.5 57.2 85.8

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

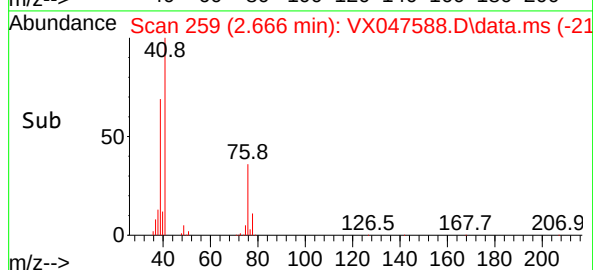
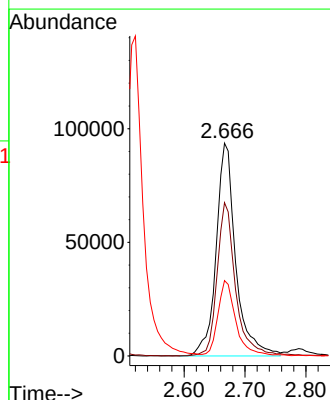
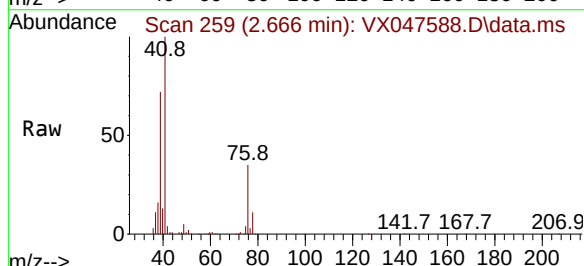
Tgt Ion: 41 Resp: 210001

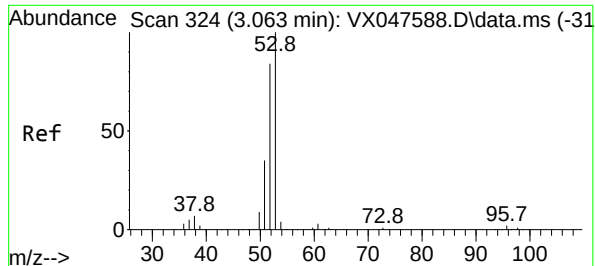
Ion Ratio Lower Upper

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

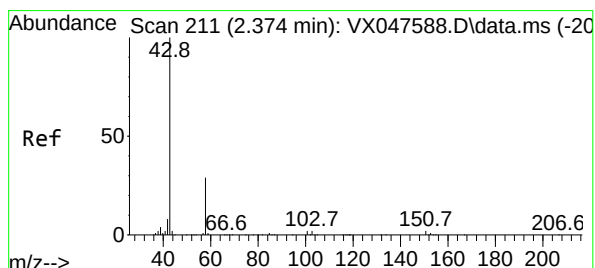
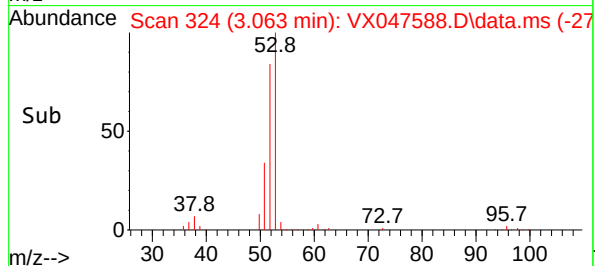
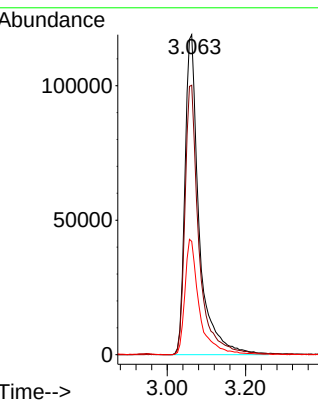
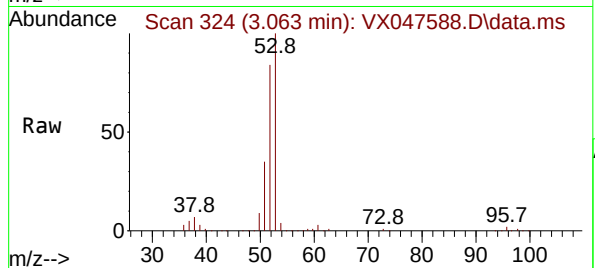
51 36.9 29.5 44.3

Manual Integrations

APPROVED

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

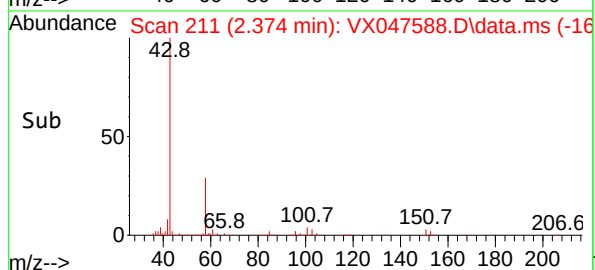
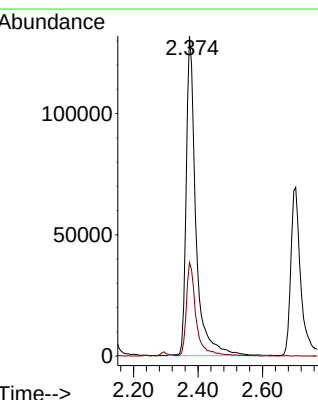
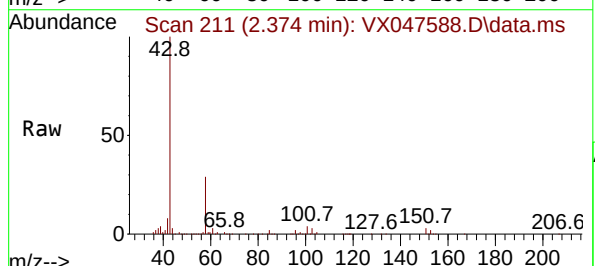
Acq: 16 Sep 2025 10:58

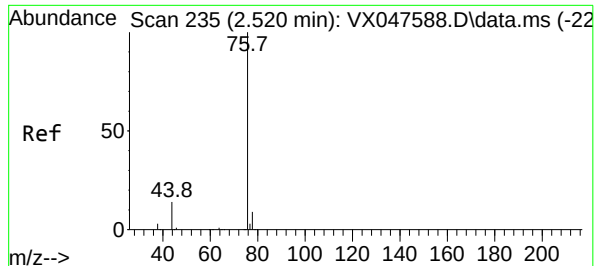
Tgt Ion: 43 Resp: 275065

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

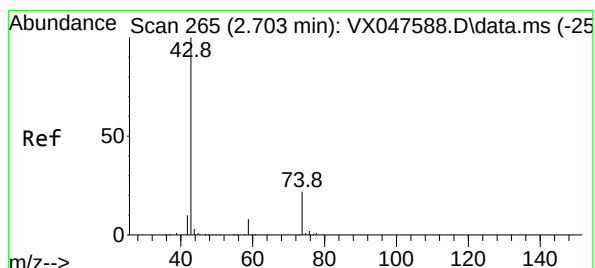
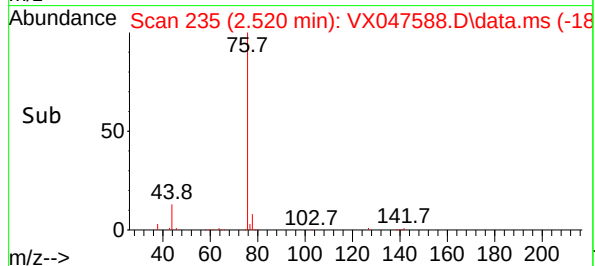
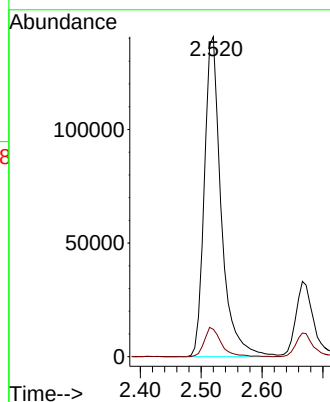
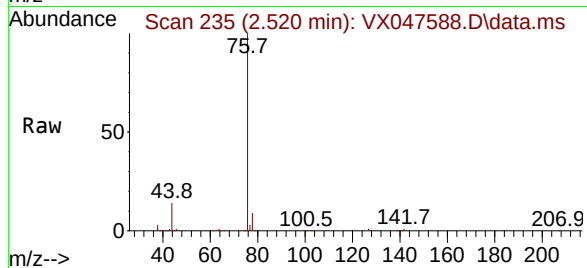
78 8.5 6.8 10.2

Manual Integrations

APPROVED

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

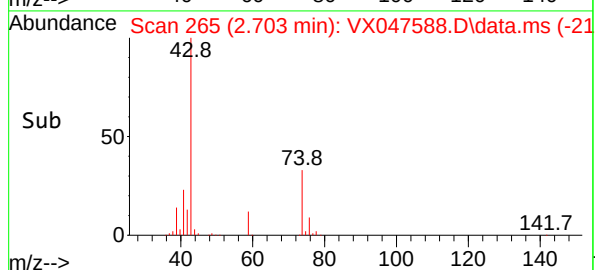
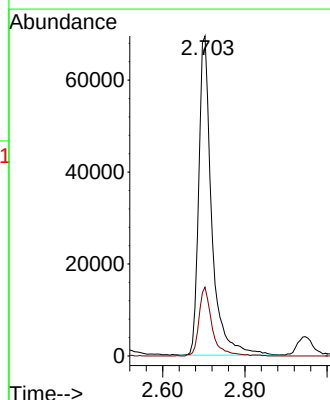
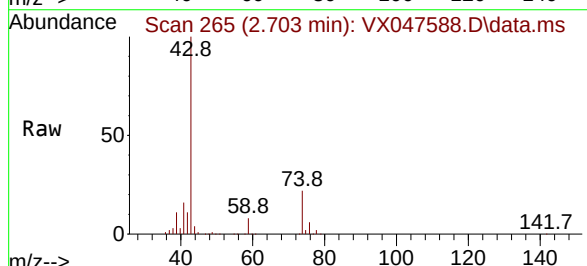
Acq: 16 Sep 2025 10:58

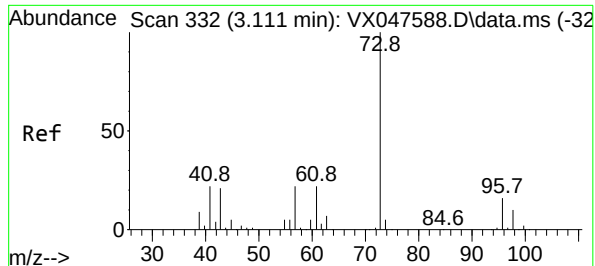
Tgt Ion: 43 Resp: 151968

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

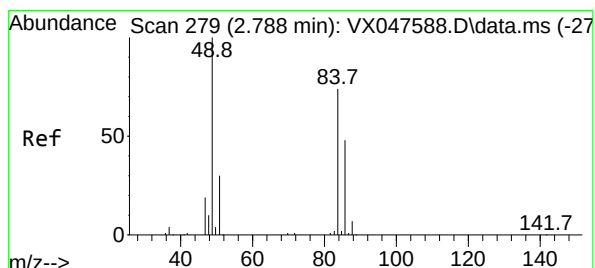
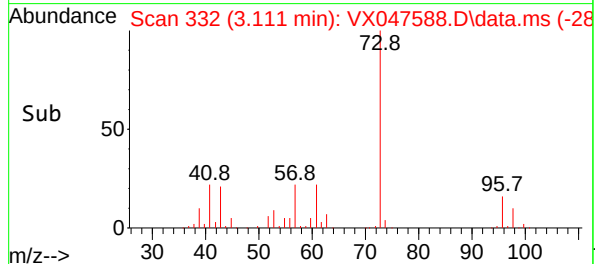
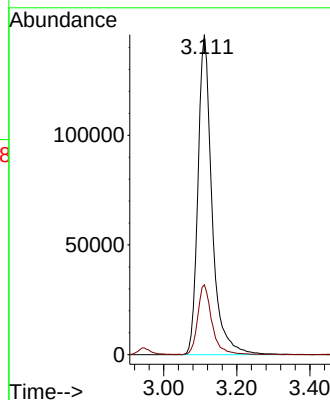
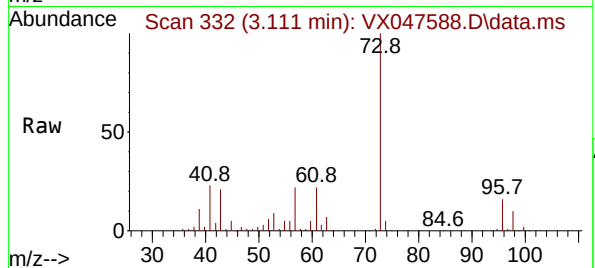
57 21.8 17.4 26.2

Manual Integrations

APPROVED

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

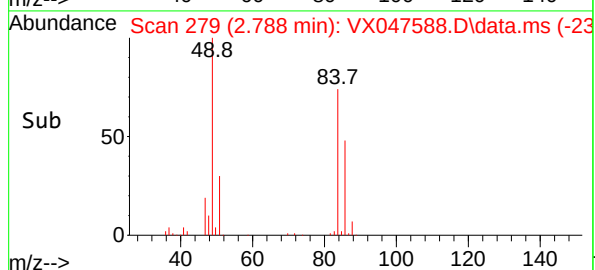
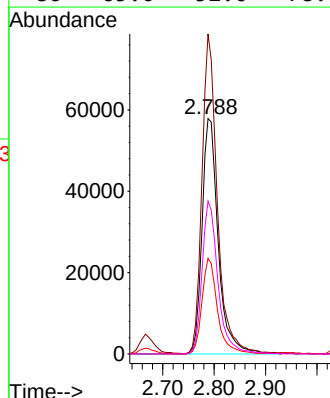
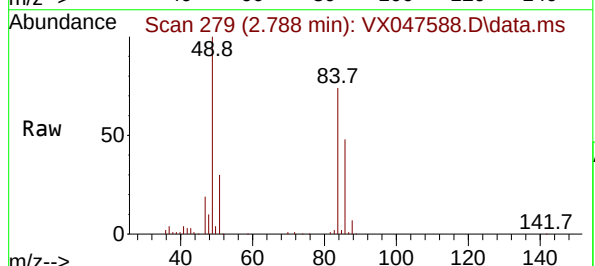
Ion Ratio Lower Upper

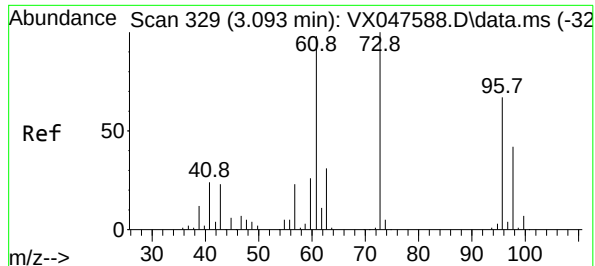
84 100

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

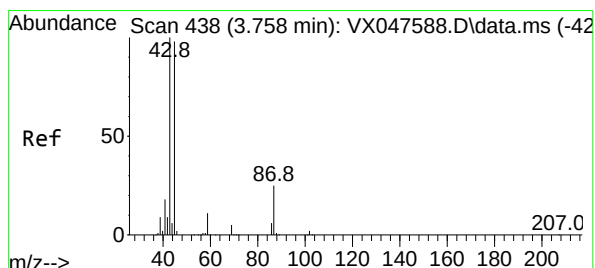
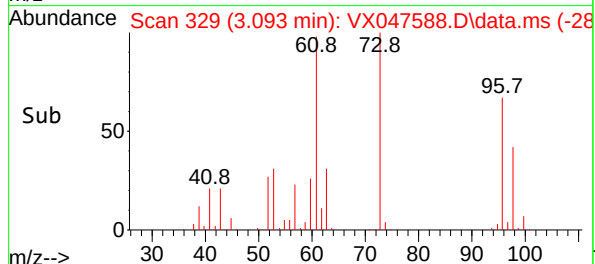
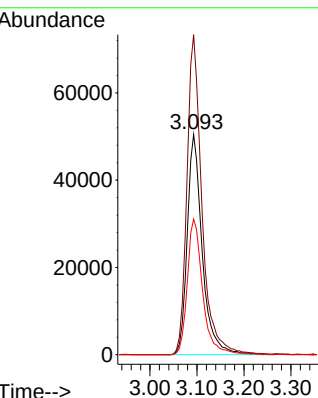
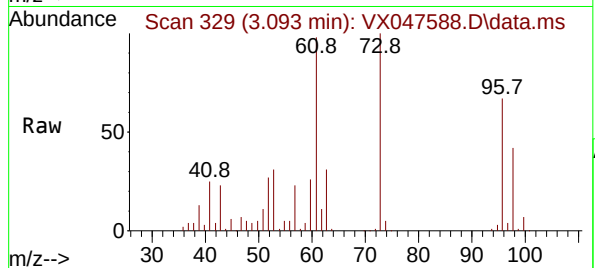
98 61.6 49.3 73.9

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

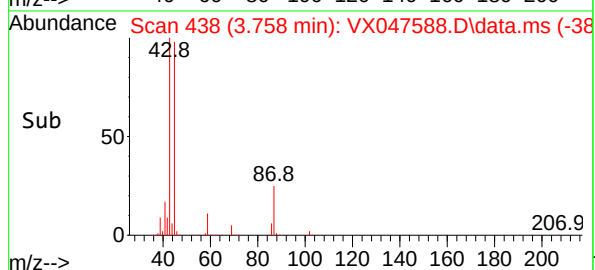
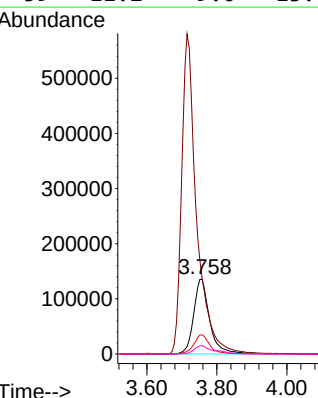
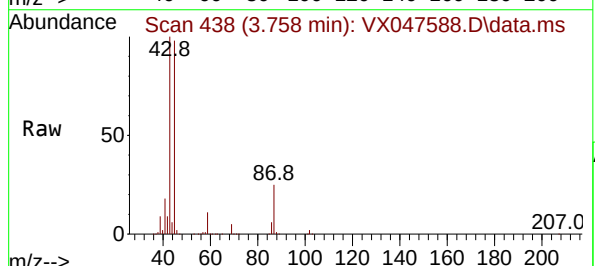
Ion Ratio Lower Upper

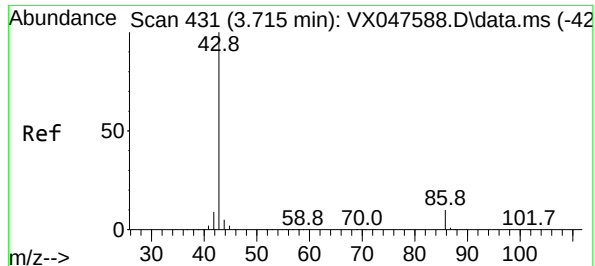
45 100

43 101.2 81.0 121.4

87 25.4 20.3 30.5

59 11.2 9.0 13.4





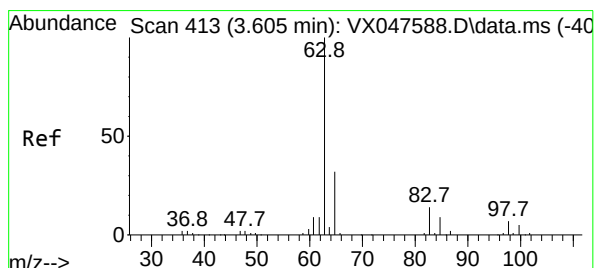
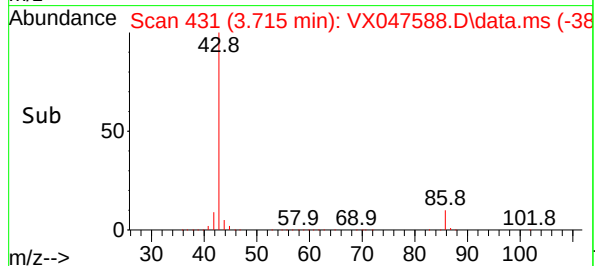
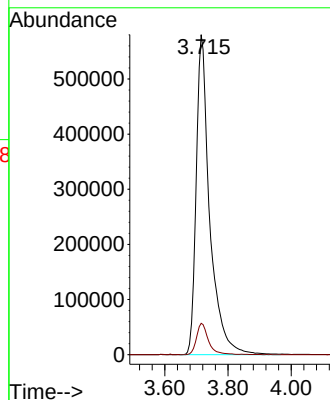
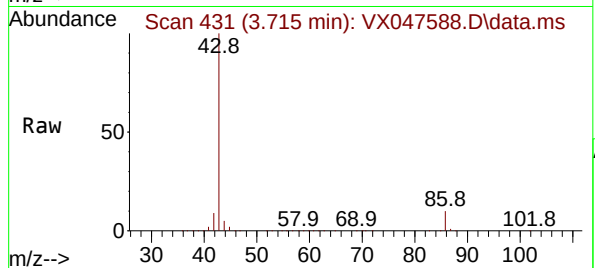
#23
Vinyl Acetate
Concen: 261.852 ug/l
RT: 3.715 min Scan# 411
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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

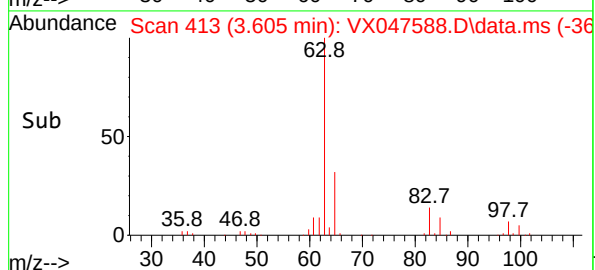
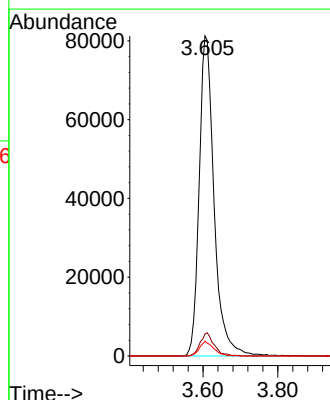
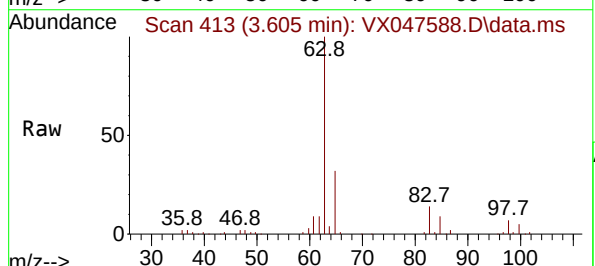
Manual Integrations
APPROVED

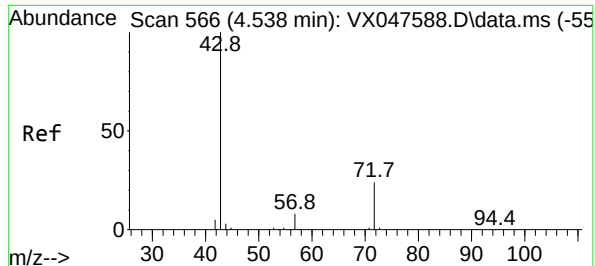
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

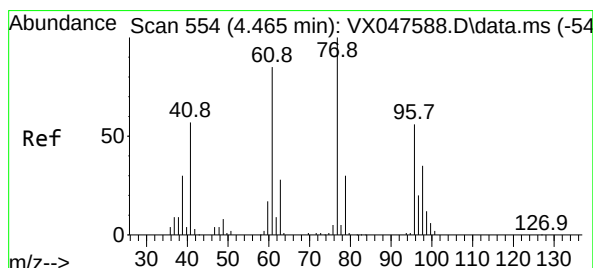
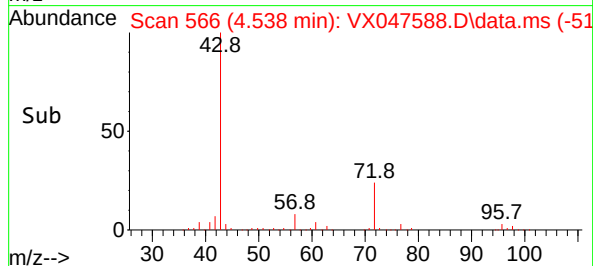
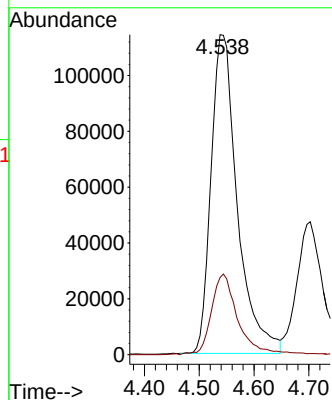
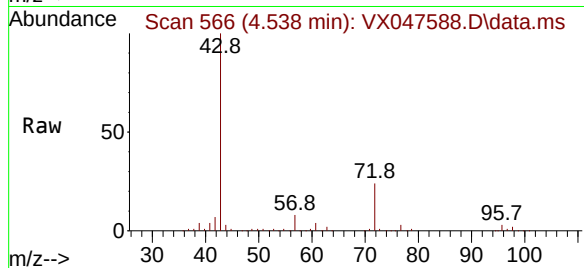
72 25.1 20.1 30.1

Manual Integrations

APPROVED

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

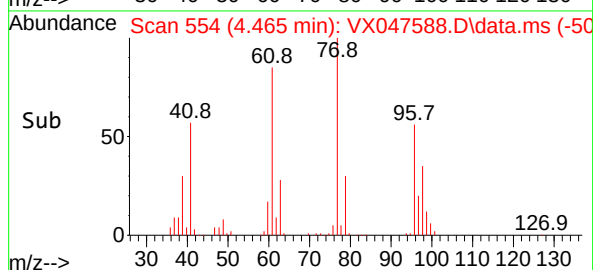
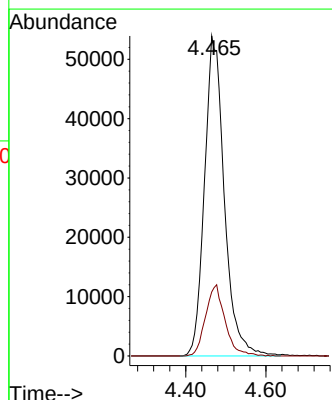
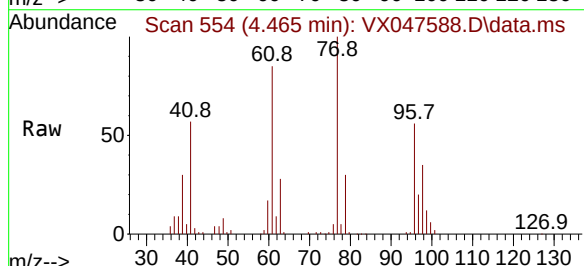
Acq: 16 Sep 2025 10:58

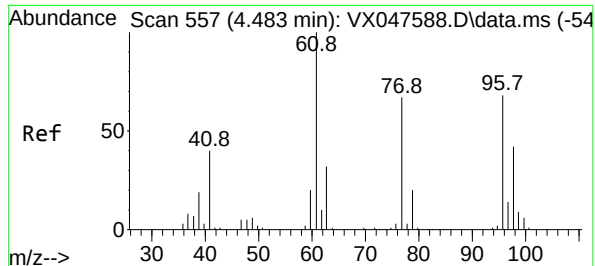
Tgt Ion: 77 Resp: 185247

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# 51

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

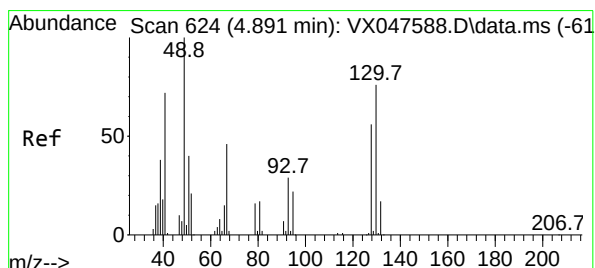
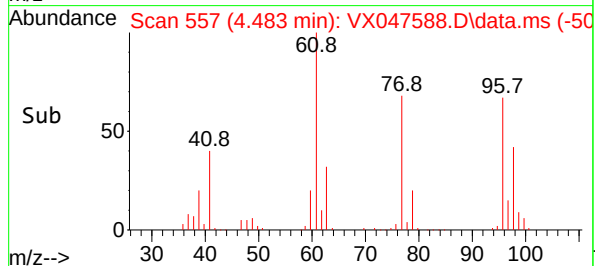
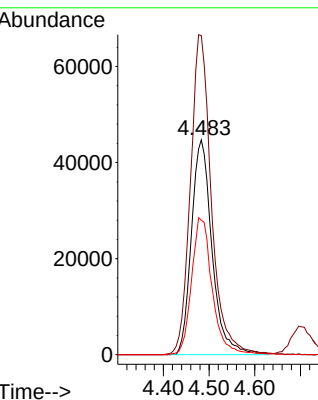
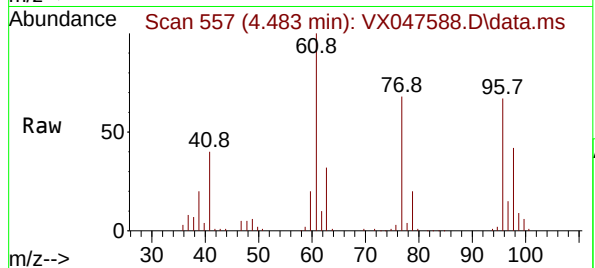
98 63.9 0.0 127.8

Manual Integrations

APPROVED

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

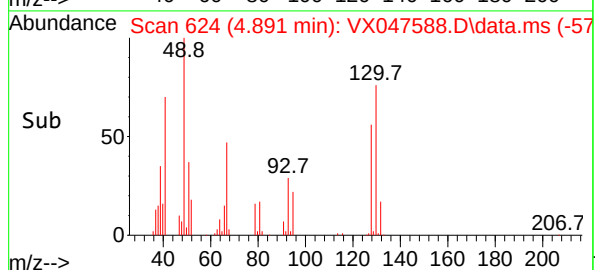
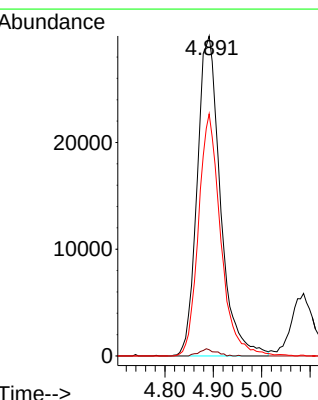
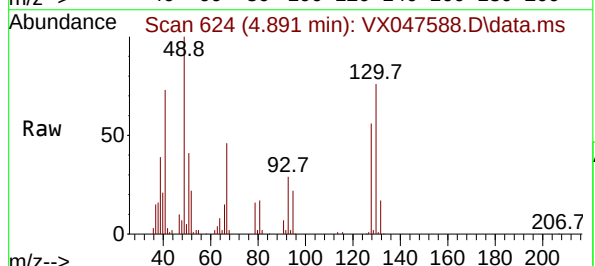
Tgt Ion: 49 Resp: 99991

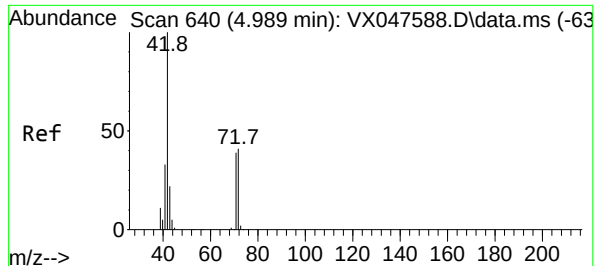
Ion Ratio Lower Upper

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

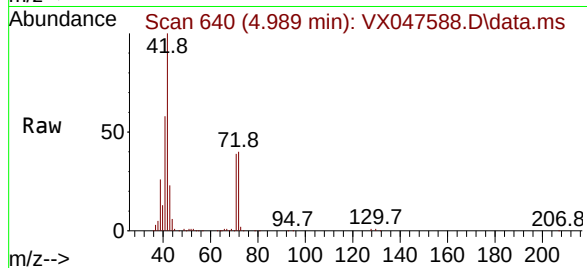
Acq: 16 Sep 2025 10:58

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

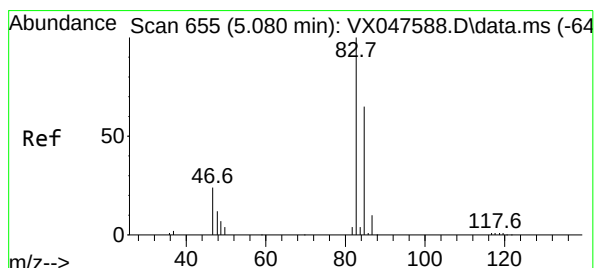
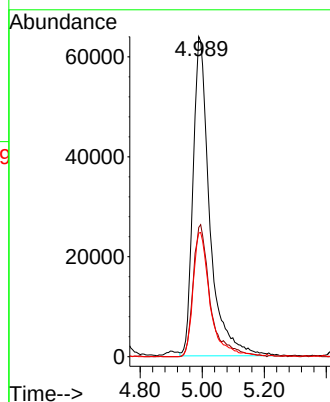
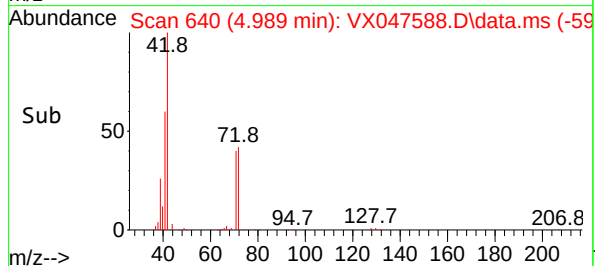


Tgt Ion:	42	Resp:	23867
Ion Ratio	Lower	Upper	
42	100		
72	42.7	34.2	51.2
71	39.9	31.9	47.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#30

Chloroform

Concen: 51.844 ug/l

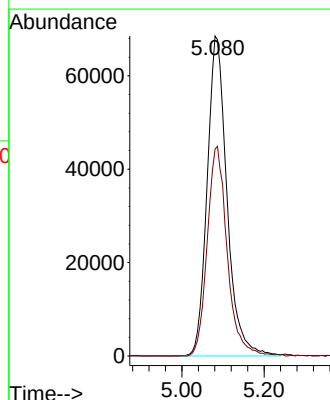
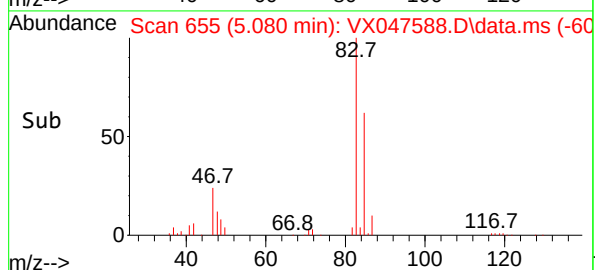
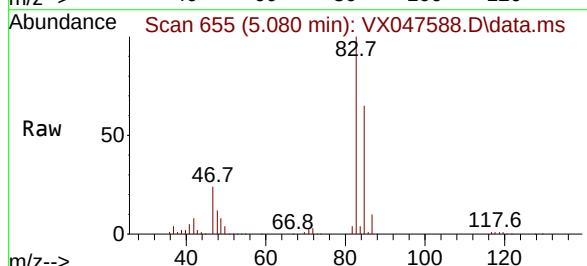
RT: 5.080 min Scan# 655

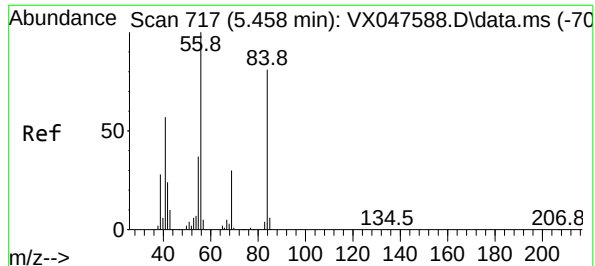
Delta R.T. 0.000 min

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

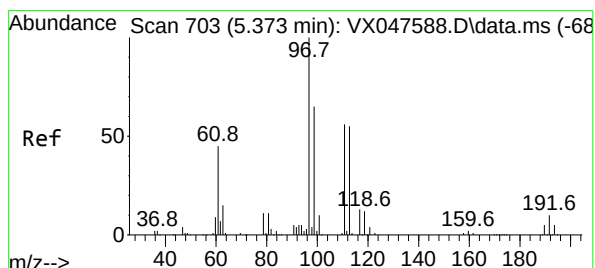
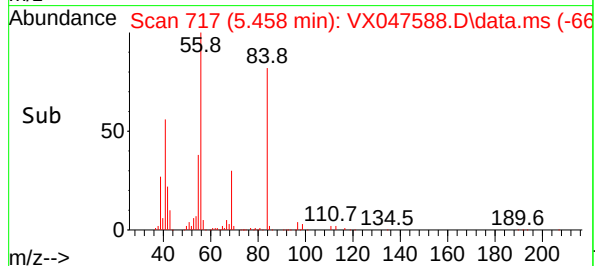
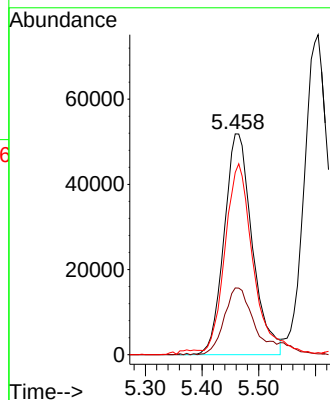
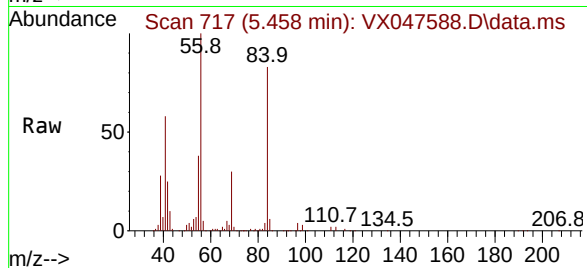
84 80.8 64.6 97.0

Manual Integrations

APPROVED

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

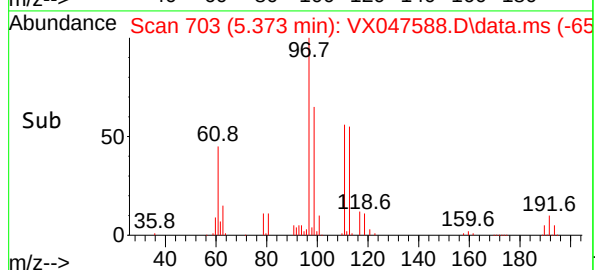
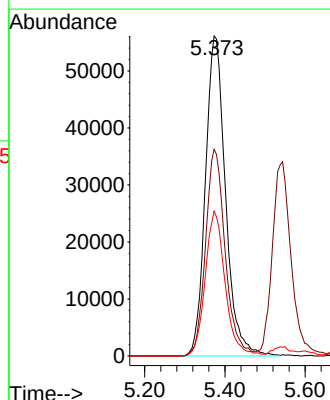
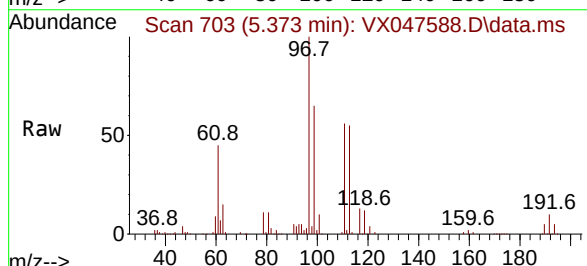
Tgt Ion: 97 Resp: 195407

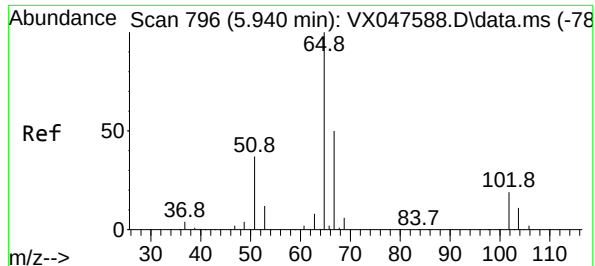
Ion Ratio Lower Upper

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

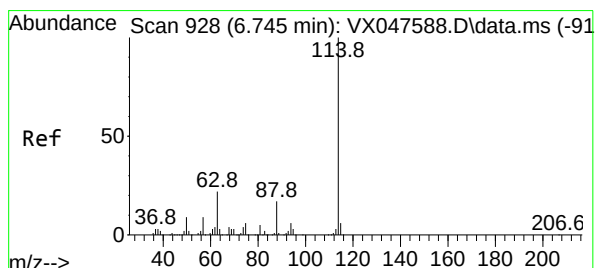
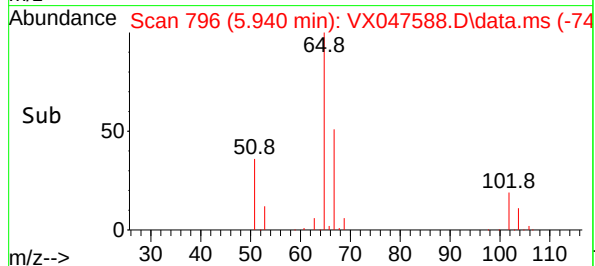
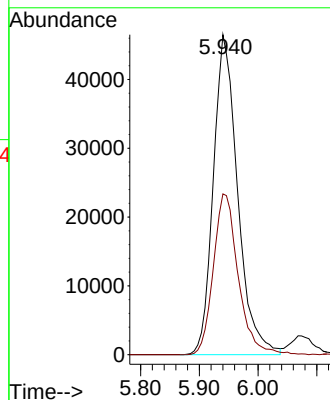
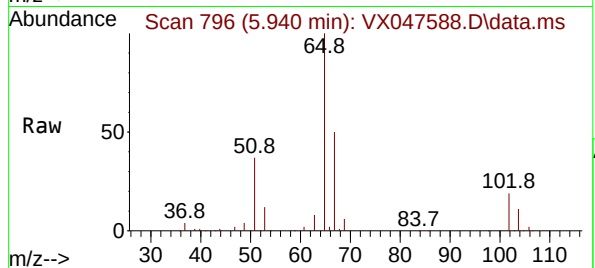
67 51.5 0.0 103.0

Manual Integrations

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: VX047588.D

Acq: 16 Sep 2025 10:58

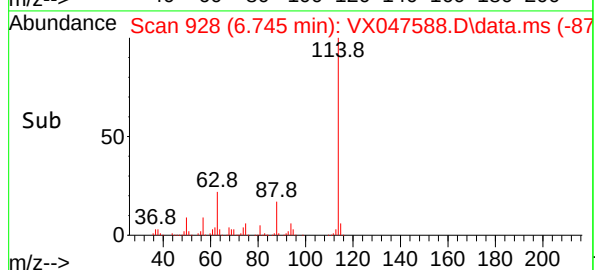
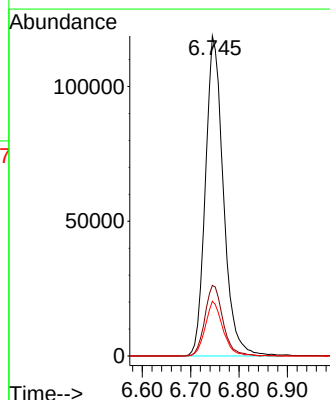
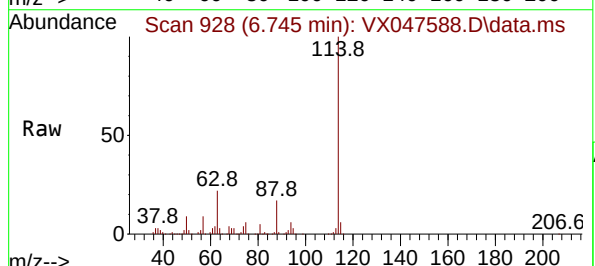
Tgt Ion:114 Resp: 307383

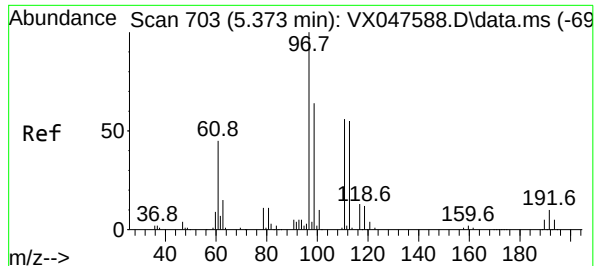
Ion Ratio Lower Upper

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

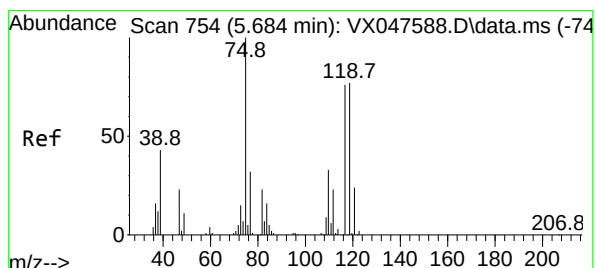
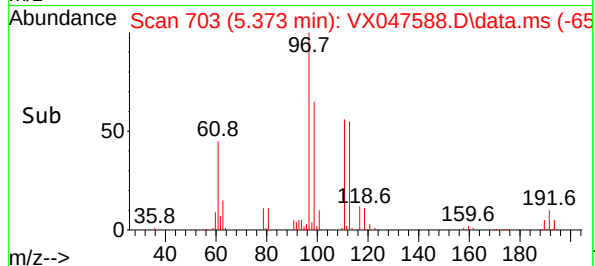
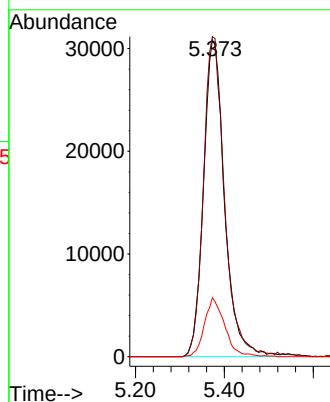
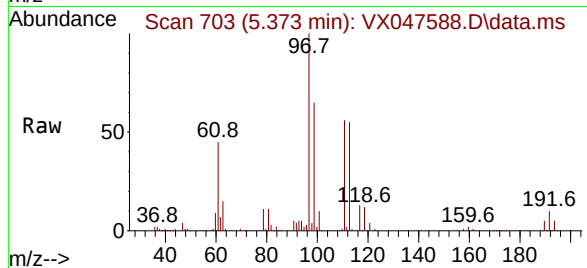
192 17.8 14.2 21.4

Manual Integrations

APPROVED

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

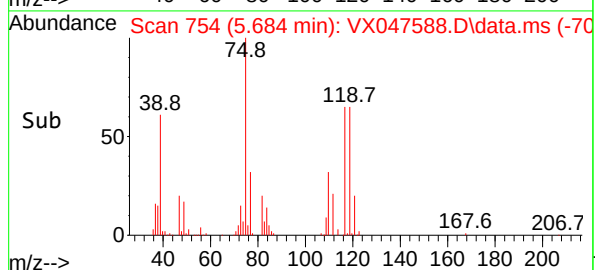
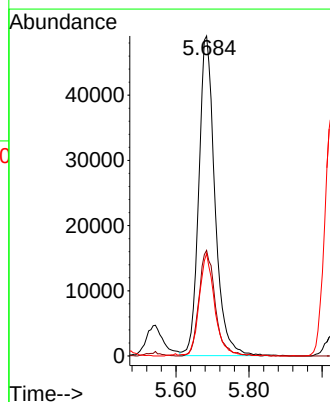
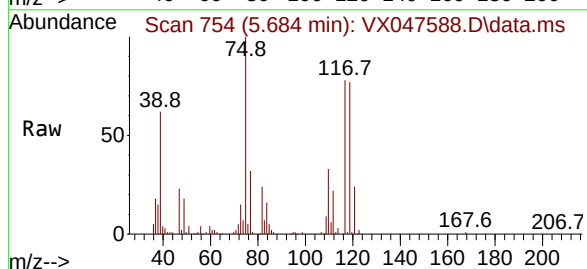
Tgt Ion: 75 Resp: 149800

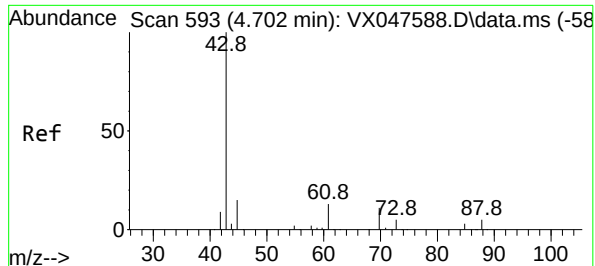
Ion Ratio Lower Upper

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 :

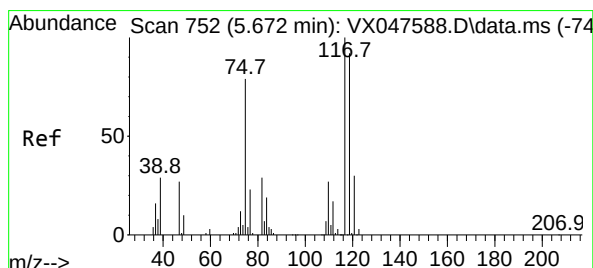
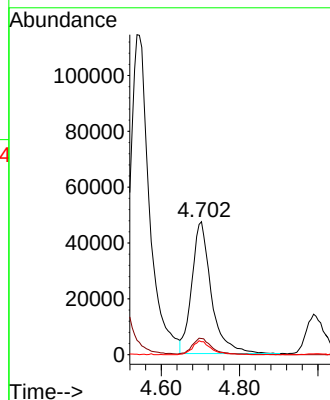
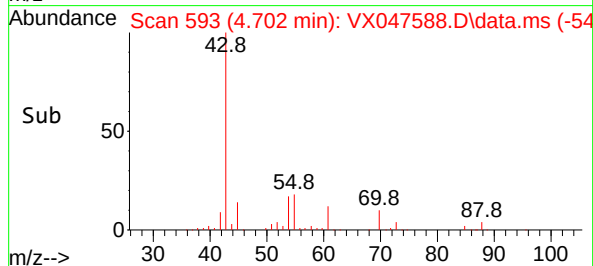
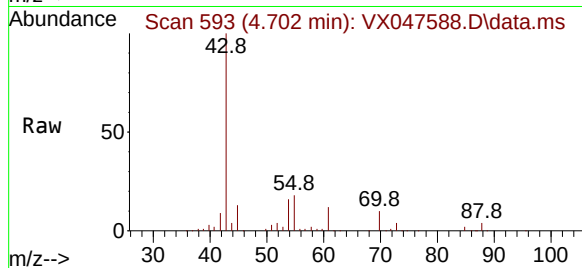
VSTDICCC050

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
APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#38

Carbon Tetrachloride

Concen: 50.637 ug/l

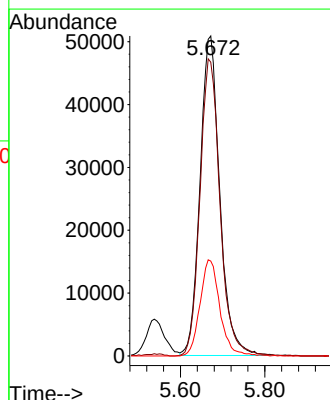
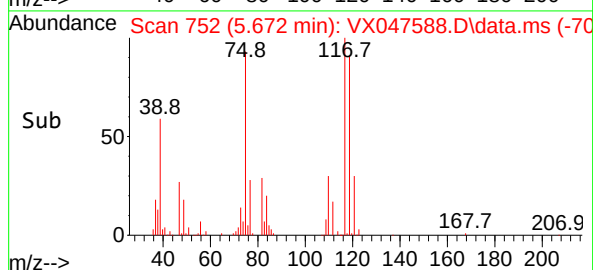
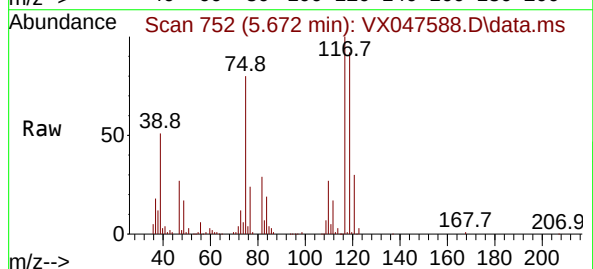
RT: 5.672 min Scan# 752

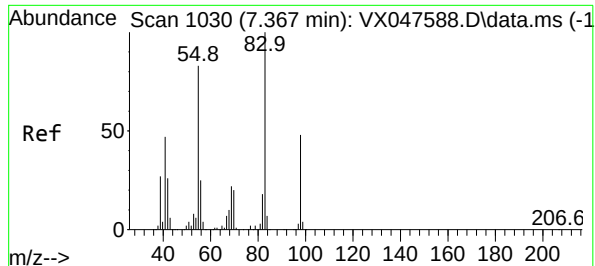
Delta R.T. 0.000 min

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

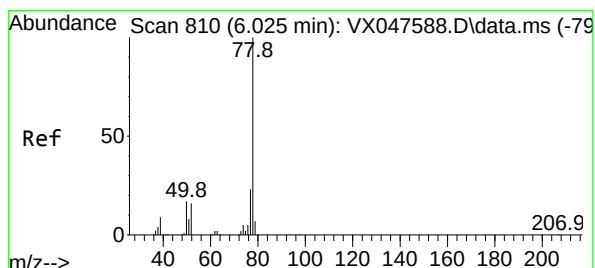
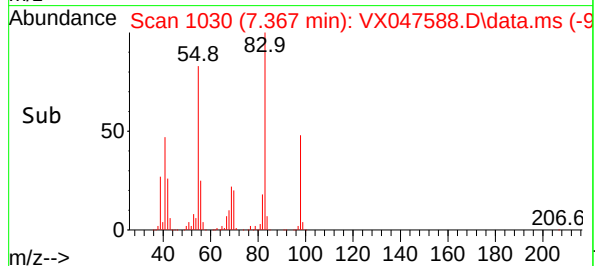
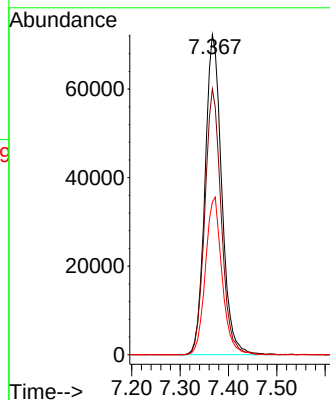
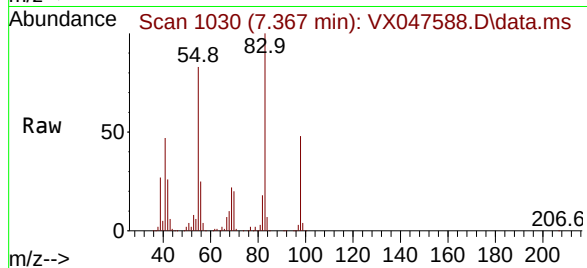
98 47.6 38.1 57.1

Manual Integrations

APPROVED

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

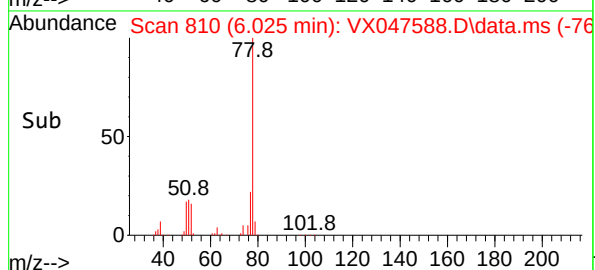
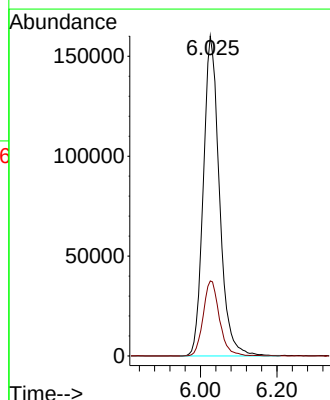
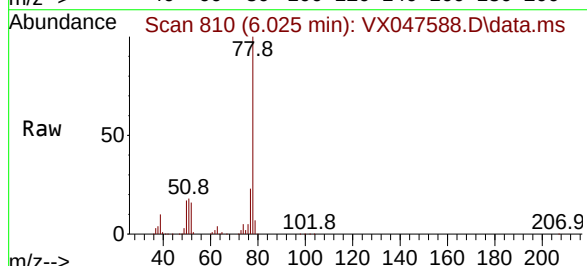
Acq: 16 Sep 2025 10:58

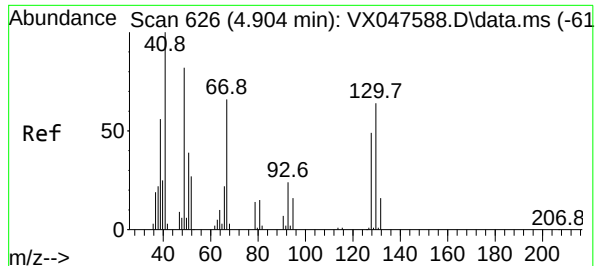
Tgt Ion: 78 Resp: 468136

Ion Ratio Lower Upper

78 100

77 23.5 18.8 28.2





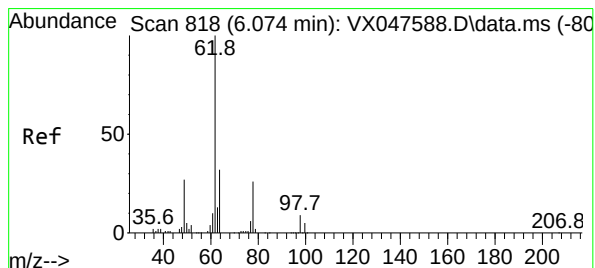
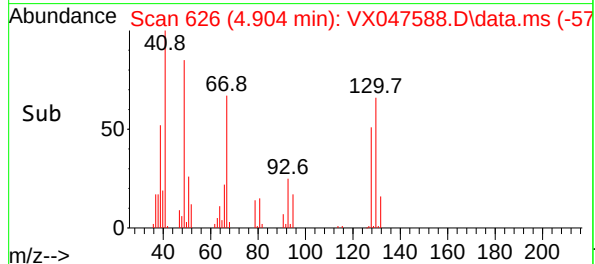
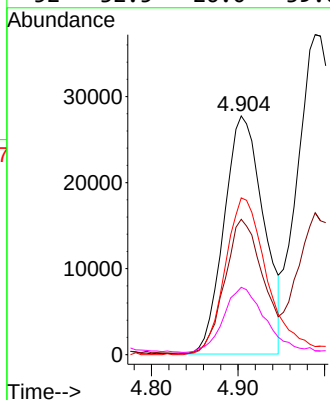
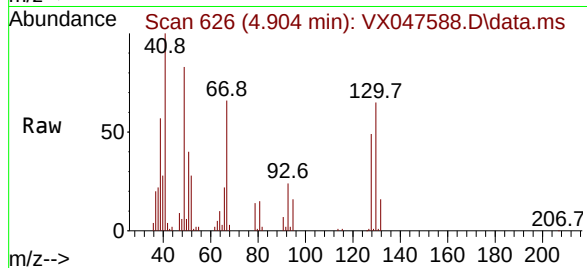
#41
Methacrylonitrile
Concen: 52.707 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

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

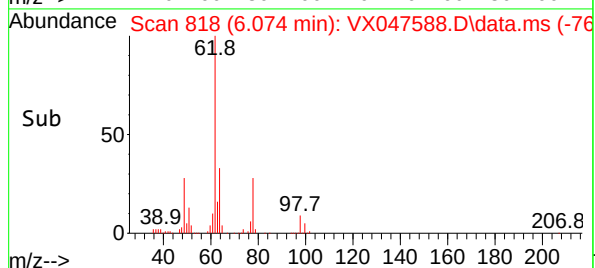
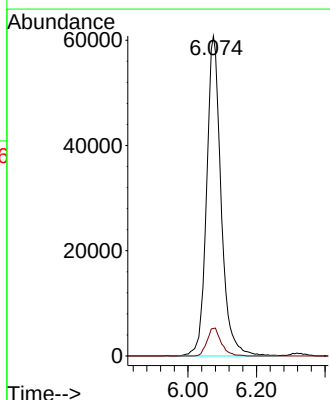
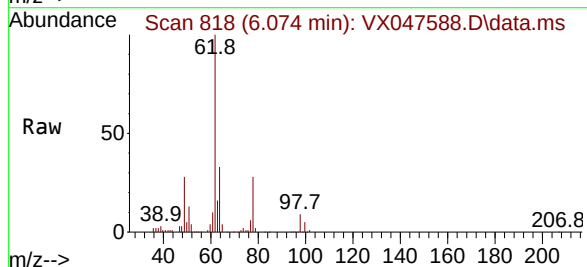
Manual Integrations
APPROVED

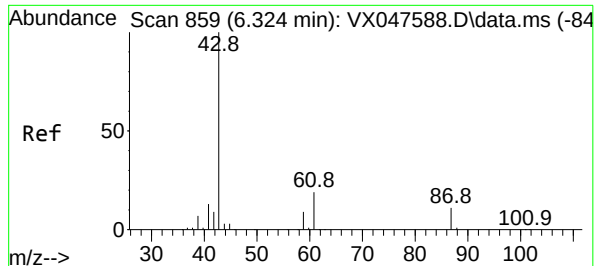
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

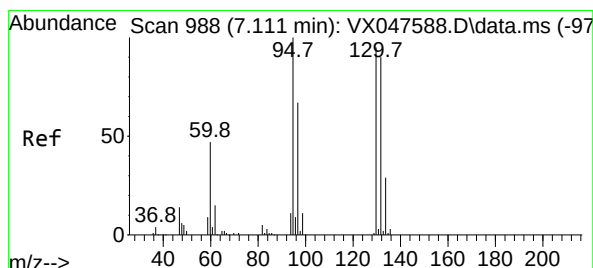
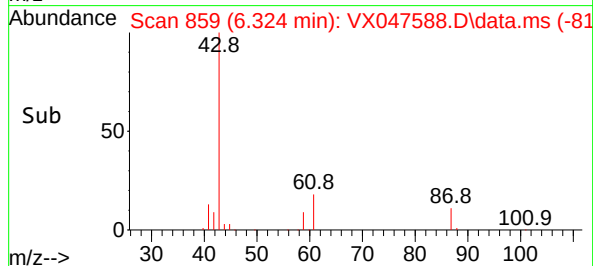
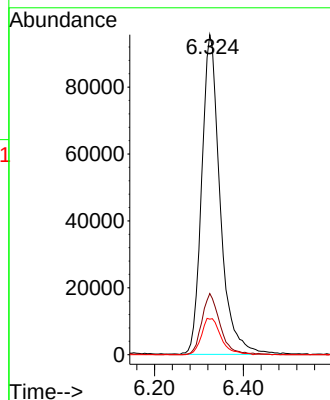
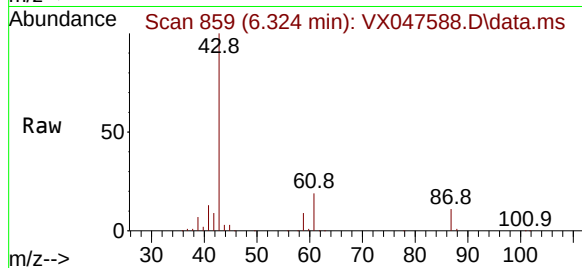
VSTDICCC050

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

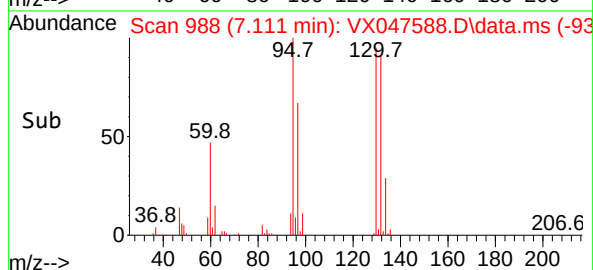
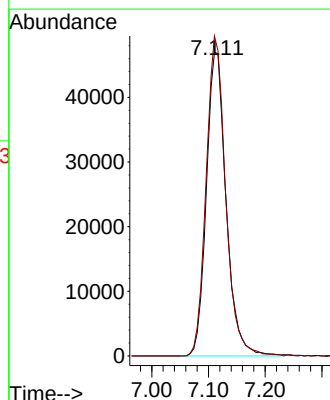
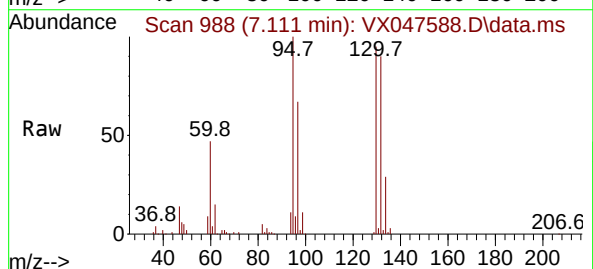
RT: 7.111 min Scan# 988

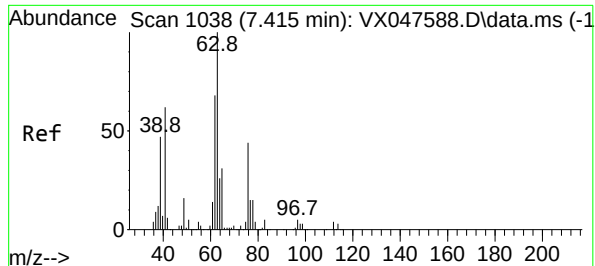
Delta R.T. 0.000 min

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

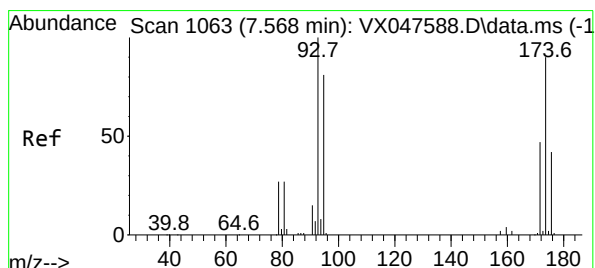
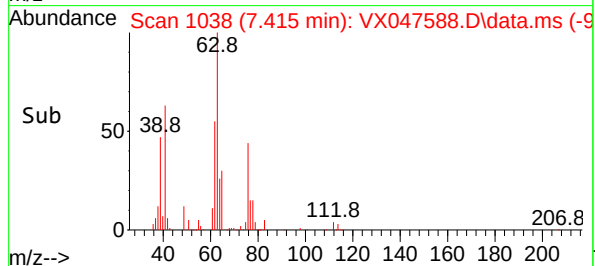
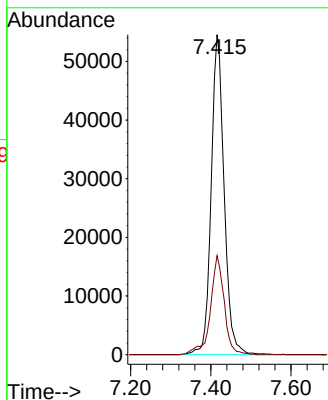
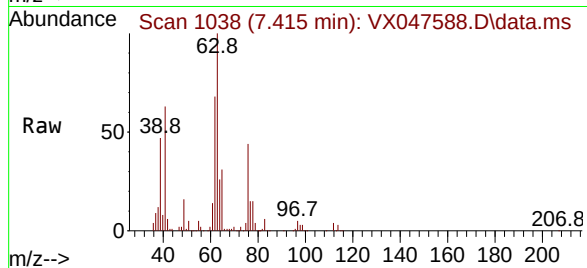
65 30.9 24.7 37.1

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

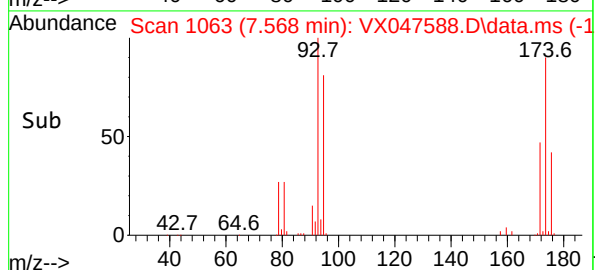
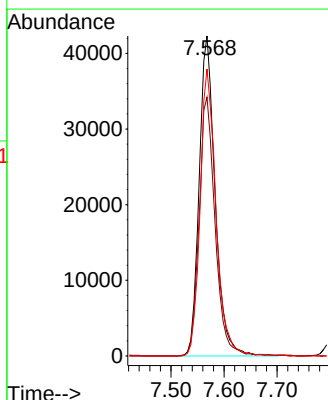
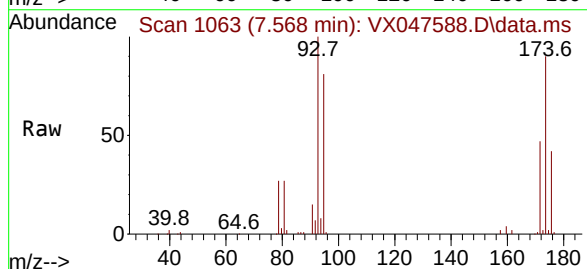
Tgt Ion: 93 Resp: 88505

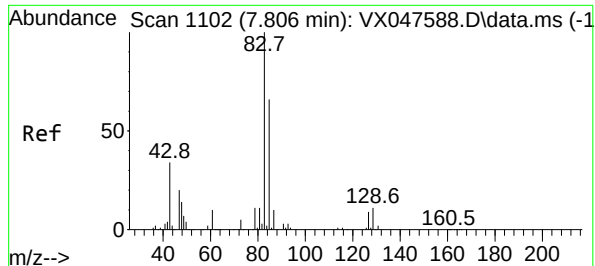
Ion Ratio Lower Upper

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 :

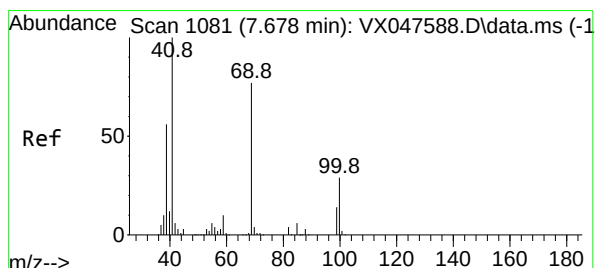
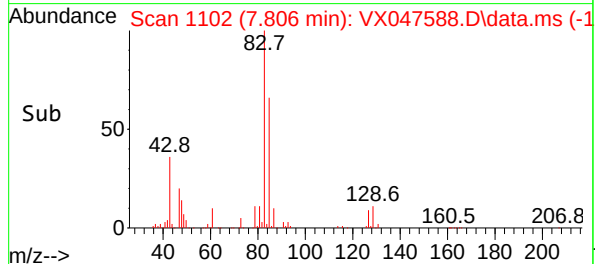
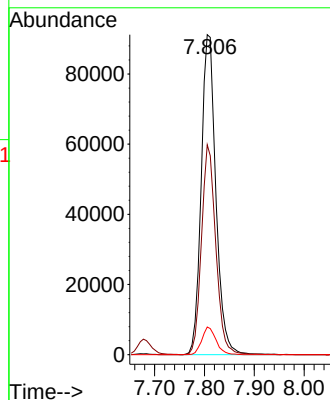
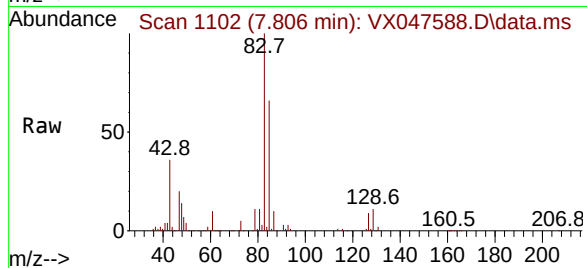
VSTDICCC050

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

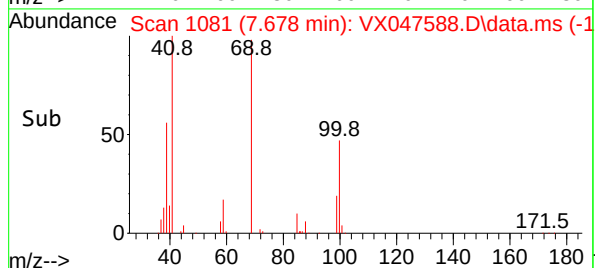
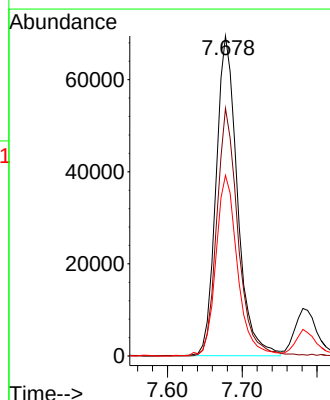
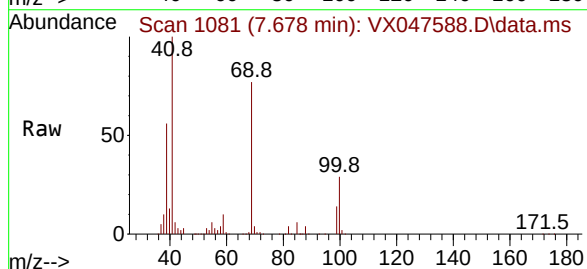
RT: 7.678 min Scan# 1081

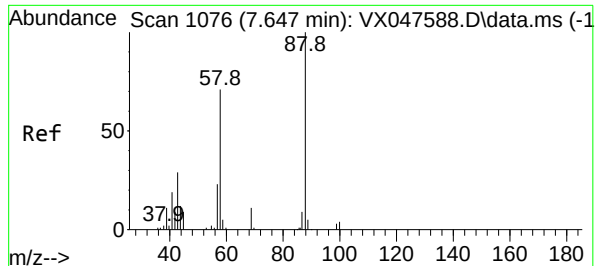
Delta R.T. 0.000 min

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 :

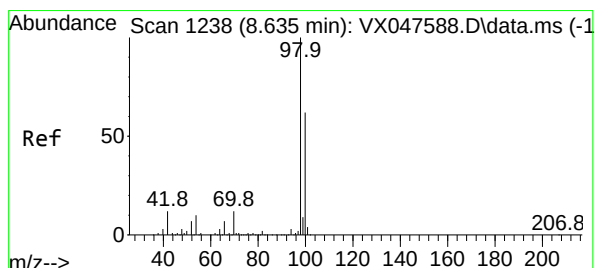
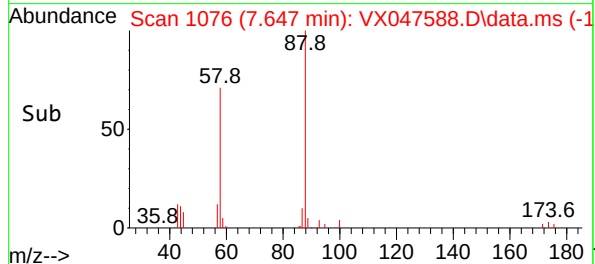
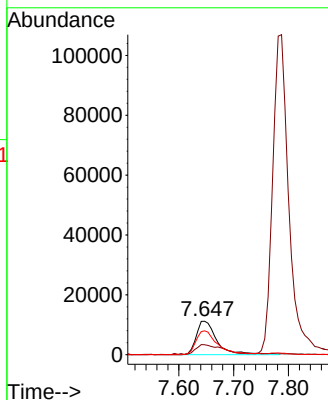
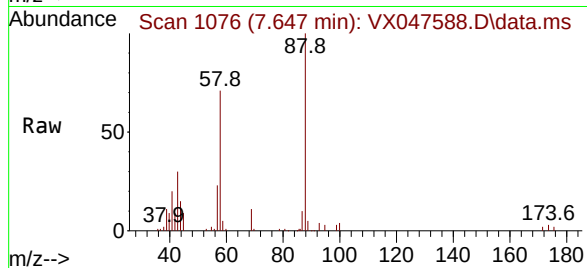
VSTDICCC050

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

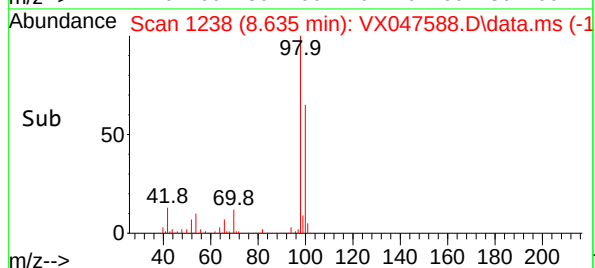
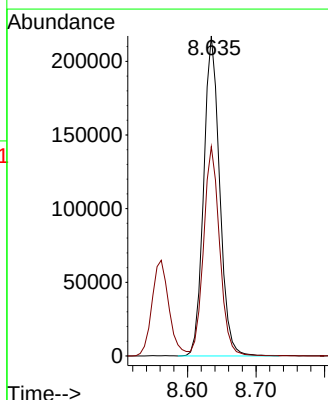
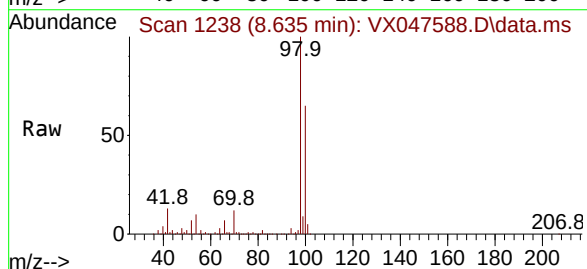
RT: 8.635 min Scan# 1238

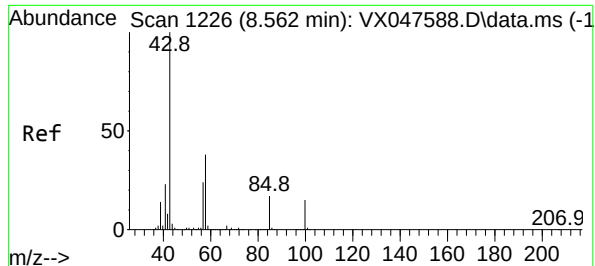
Delta R.T. 0.000 min

Lab File: VX047588.D

Acq: 16 Sep 2025 10:58

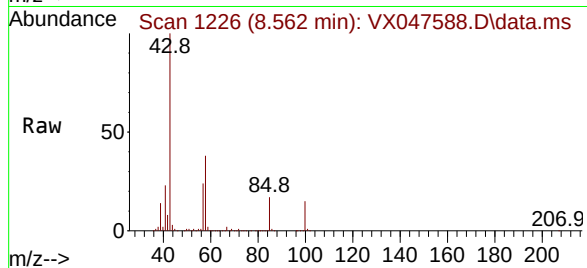
Tgt Ion:	98	Resp:	352578
Ion	Ratio	Lower	Upper
98	100		
100	66.2	53.0	79.4





#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

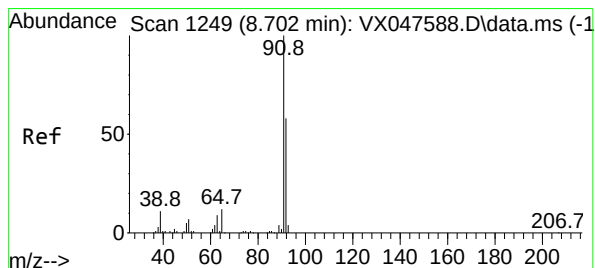
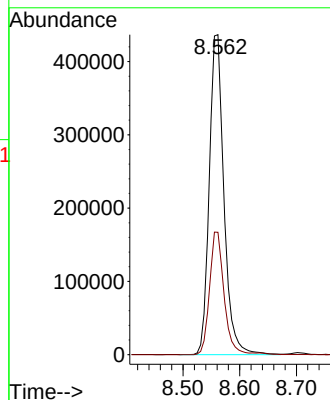
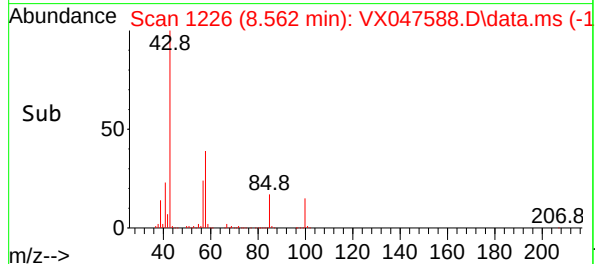
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



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

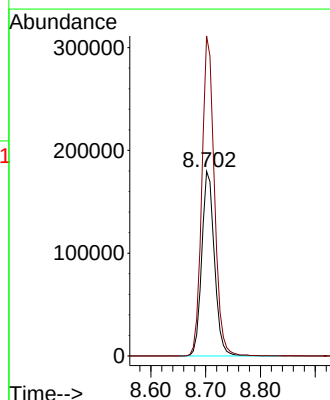
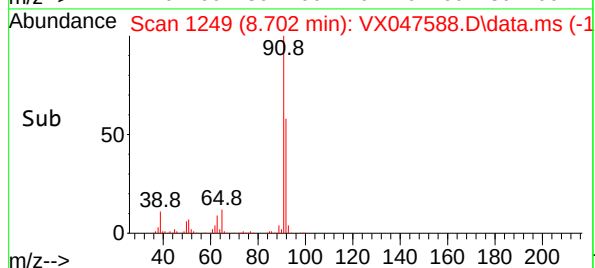
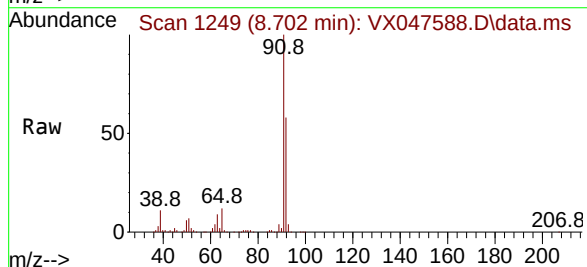
Manual Integrations
APPROVED

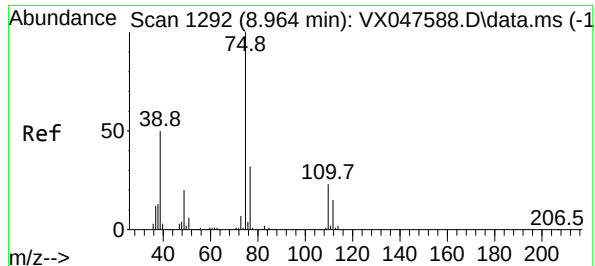
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

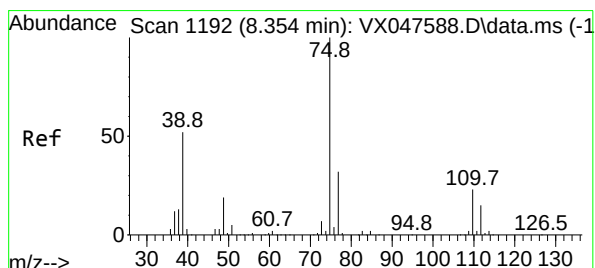
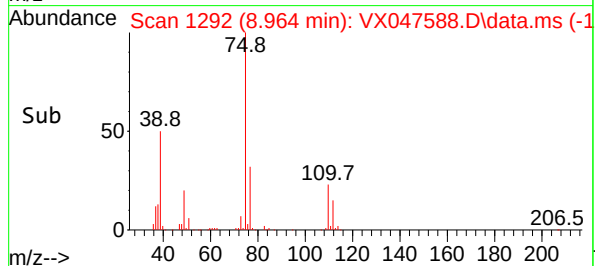
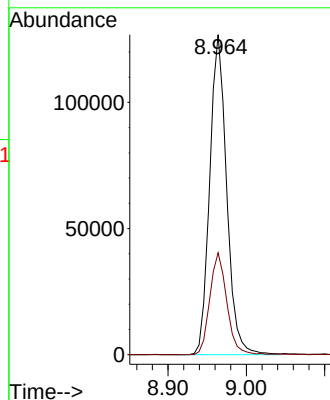
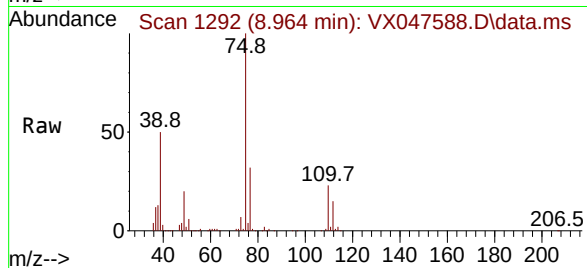
77 31.8 25.4 38.2

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

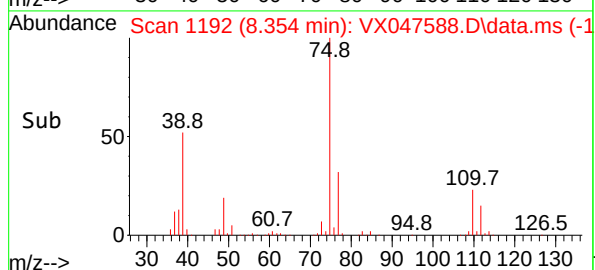
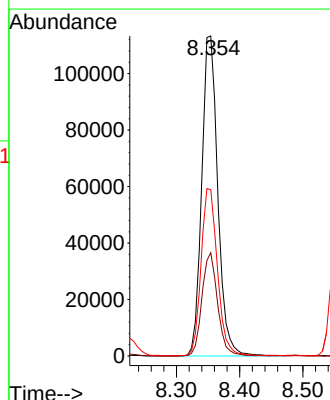
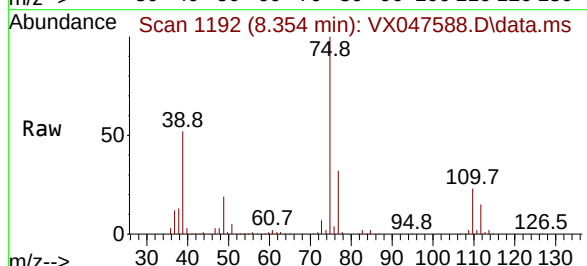
Tgt Ion: 75 Resp: 200859

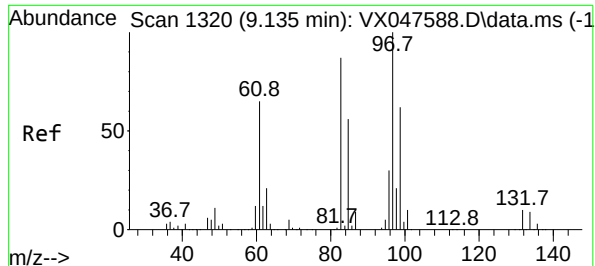
Ion Ratio Lower Upper

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

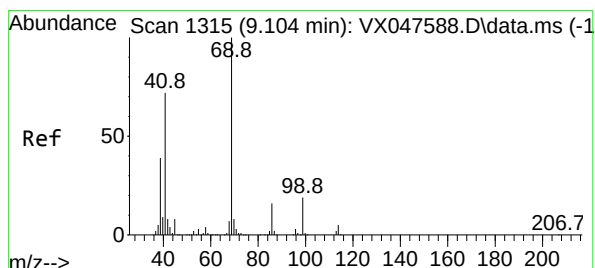
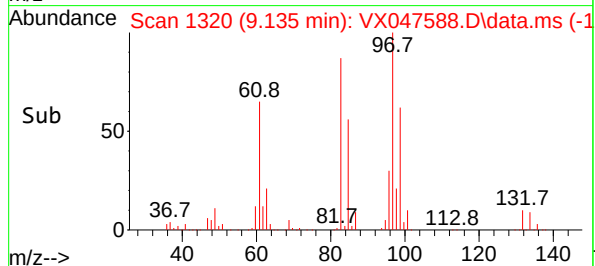
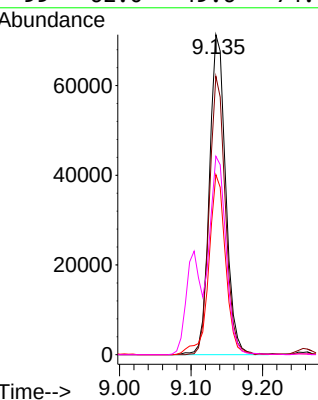
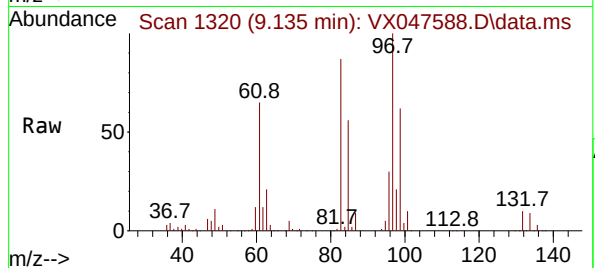
99 62.0 49.6 74.4

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

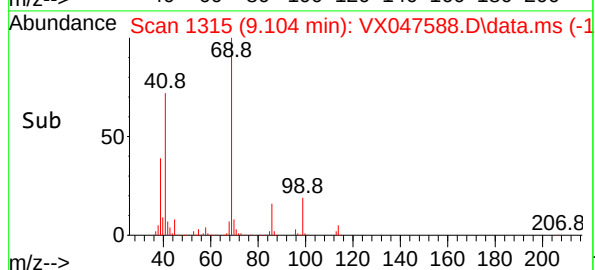
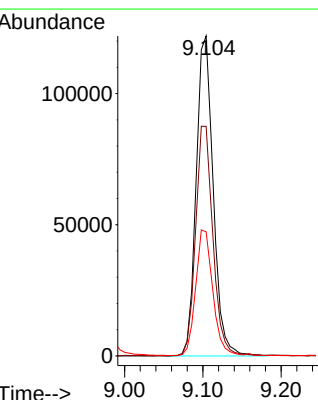
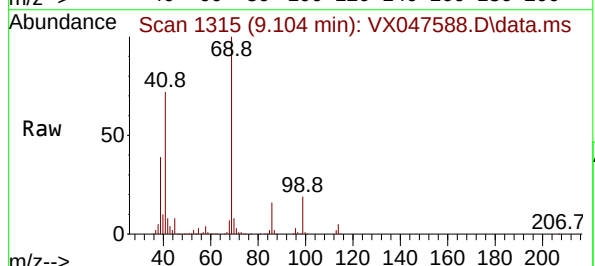
Tgt Ion: 69 Resp: 184087

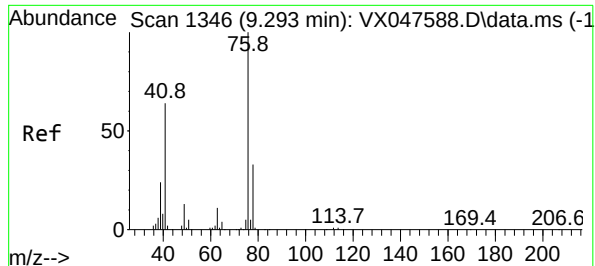
Ion Ratio Lower Upper

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# 11

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

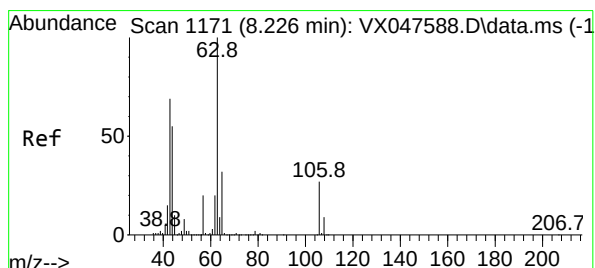
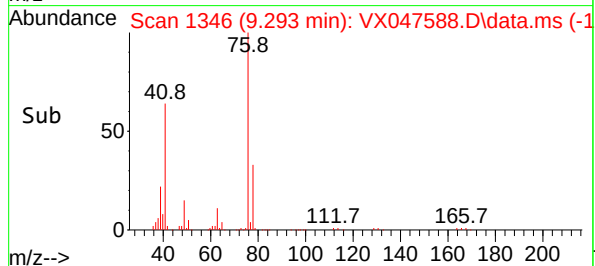
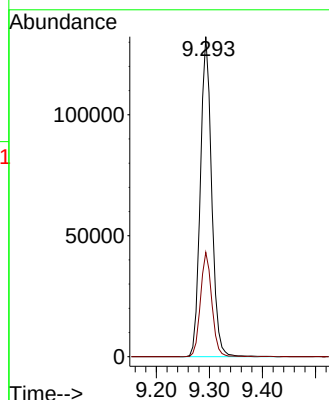
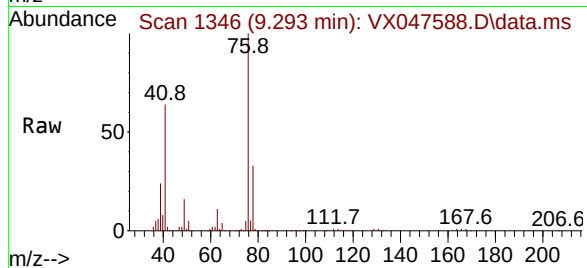
78 32.8 26.2 39.4

Manual Integrations

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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

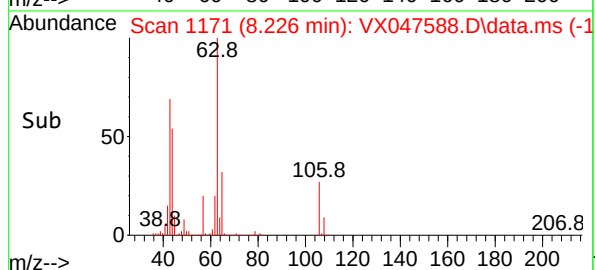
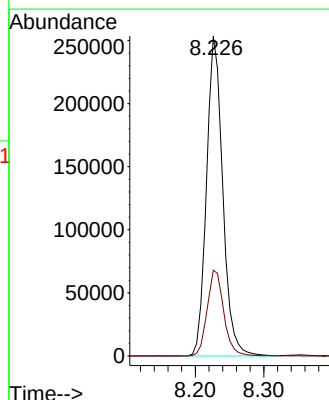
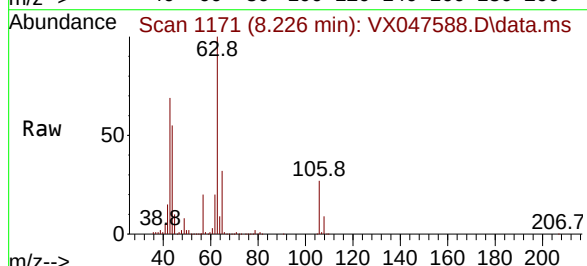
Acq: 16 Sep 2025 10:58

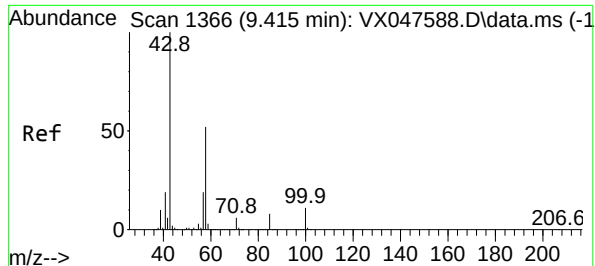
Tgt Ion: 63 Resp: 418707

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

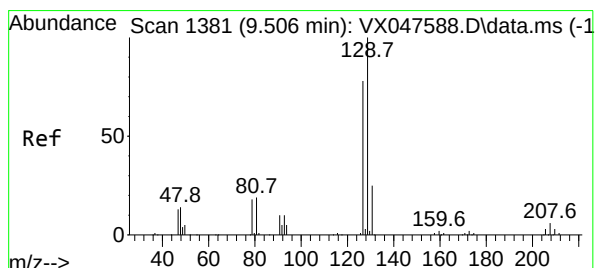
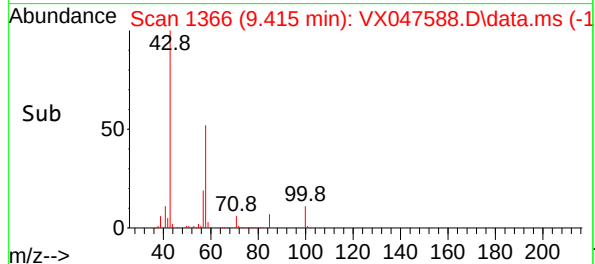
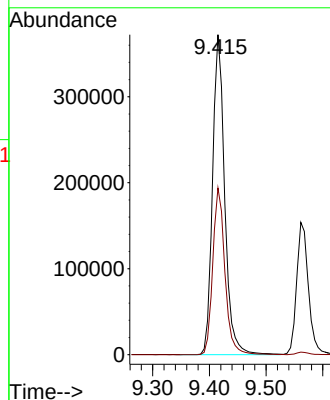
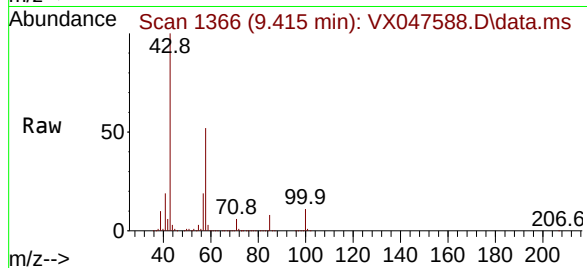
58 52.1 26.1 78.2

Manual Integrations

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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

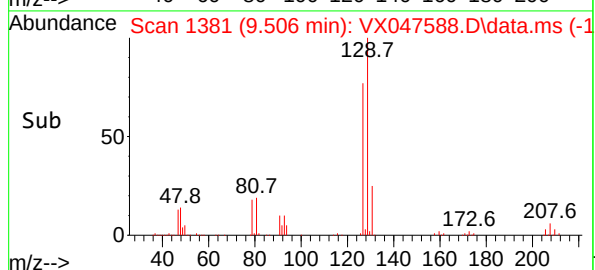
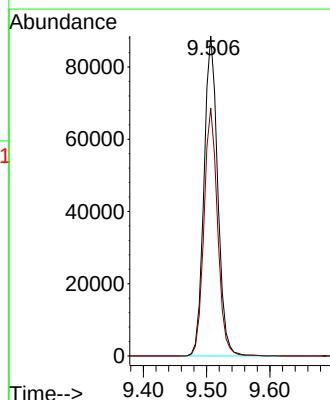
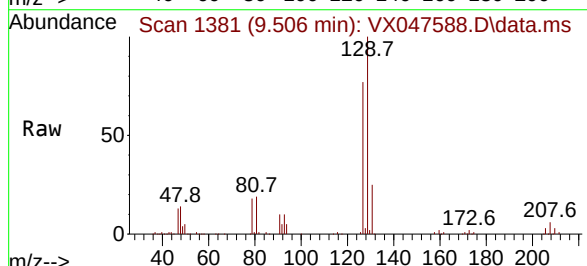
Acq: 16 Sep 2025 10:58

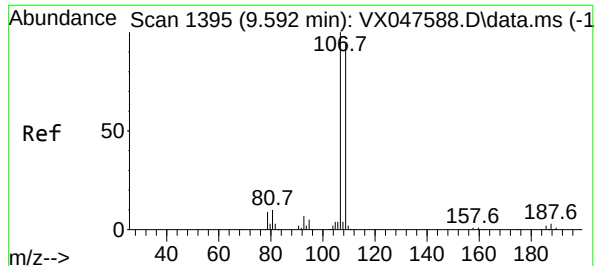
Tgt Ion:129 Resp: 133737

Ion Ratio Lower Upper

129 100

127 76.8 38.4 115.2





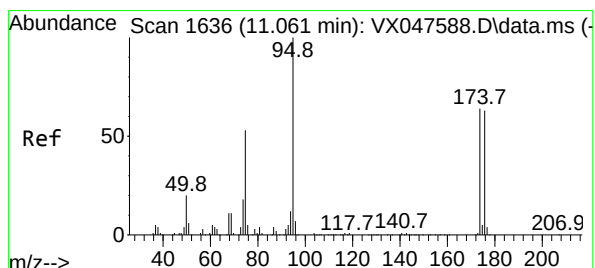
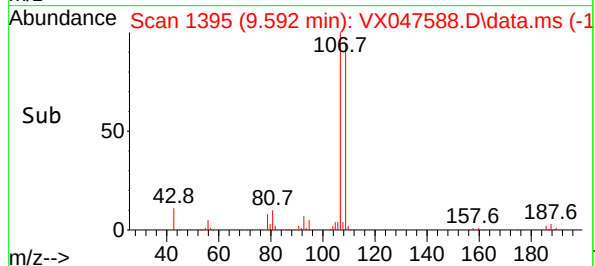
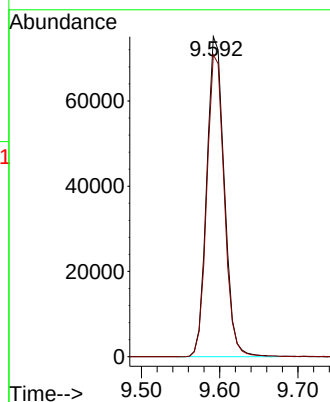
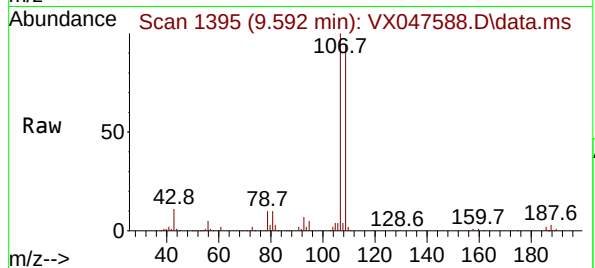
#61
1,2-Dibromoethane
Concen: 52.607 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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

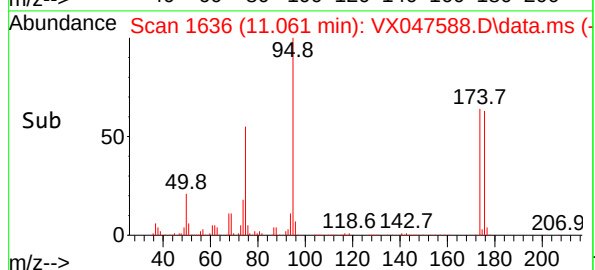
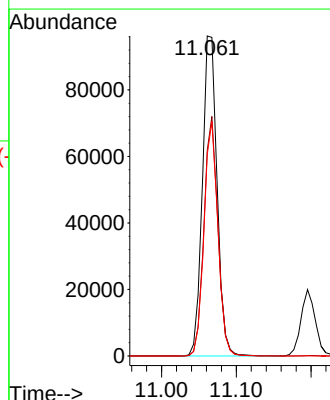
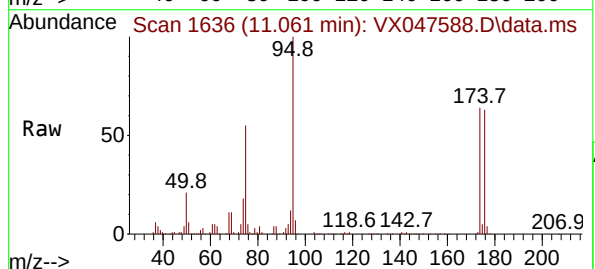
Manual Integrations
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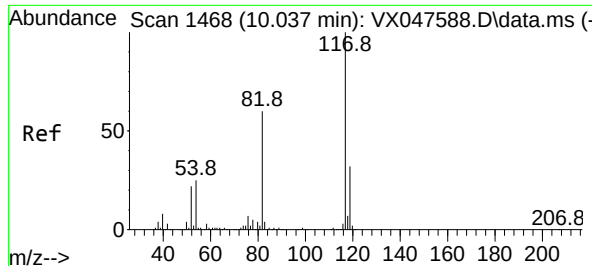
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

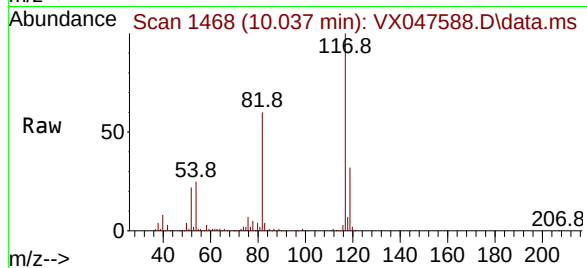
Tgt Ion: 95 Resp: 131217
Ion Ratio Lower Upper
95 100
174 70.8 0.0 141.6
176 69.2 0.0 138.4





#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

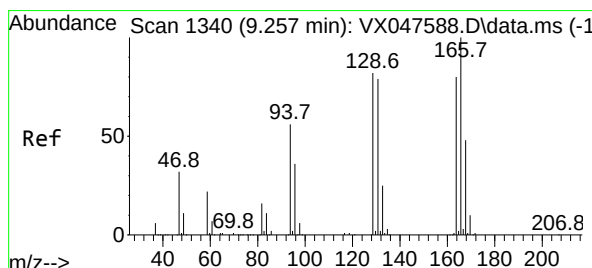
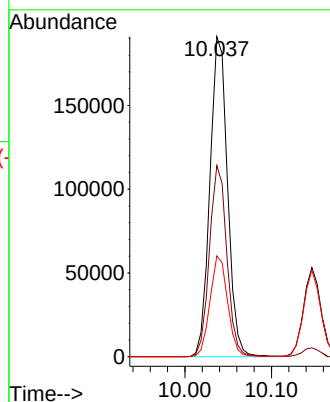
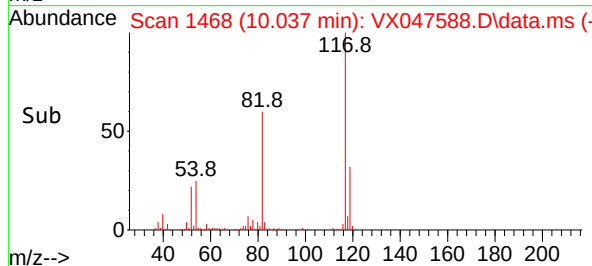
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



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

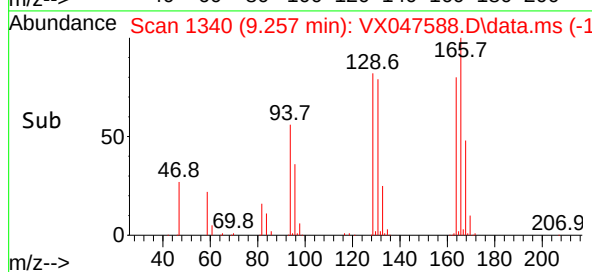
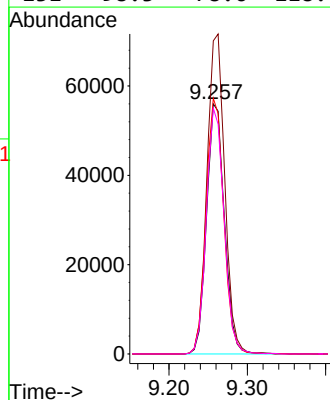
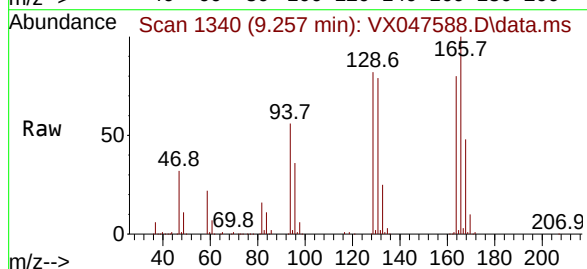
Manual Integrations
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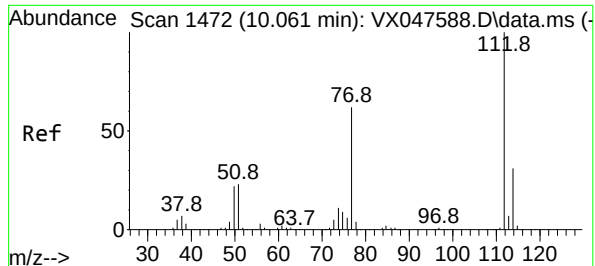
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

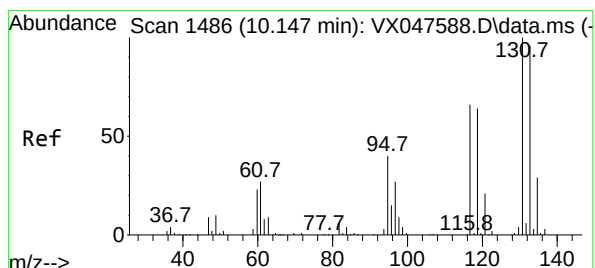
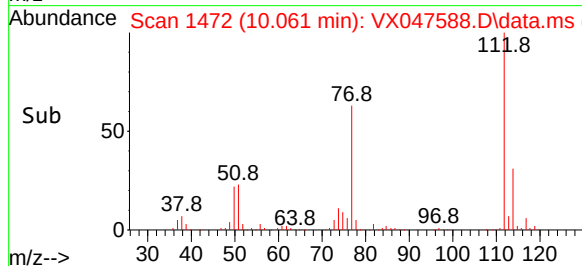
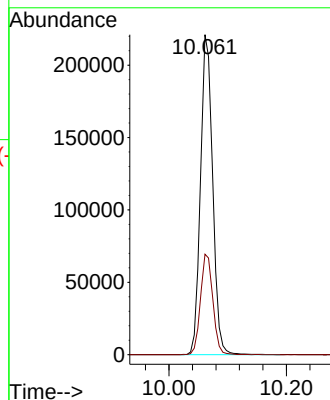
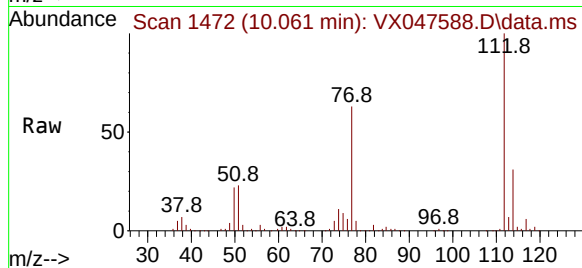
114 31.4 25.1 37.7

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

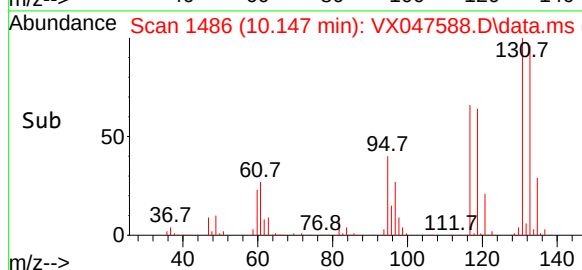
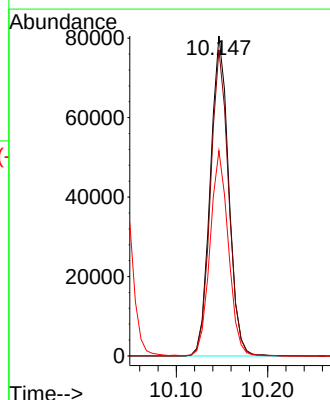
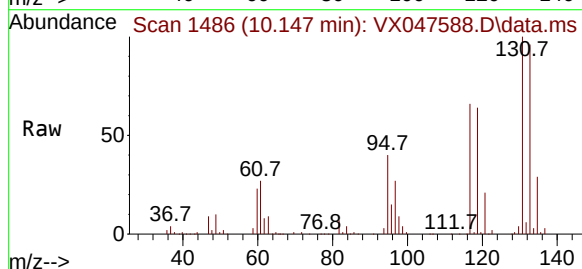
Tgt Ion:131 Resp: 111849

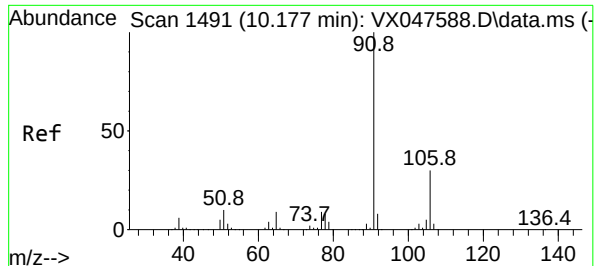
Ion Ratio Lower Upper

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

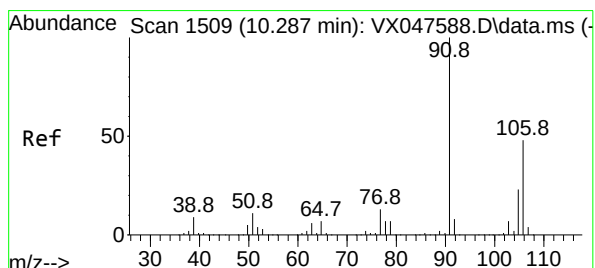
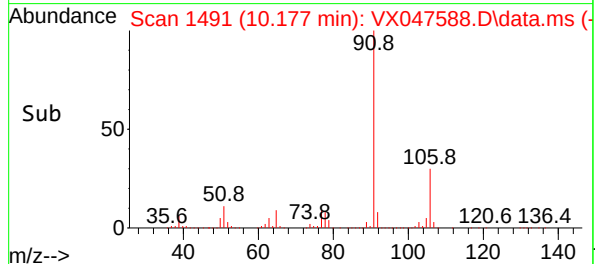
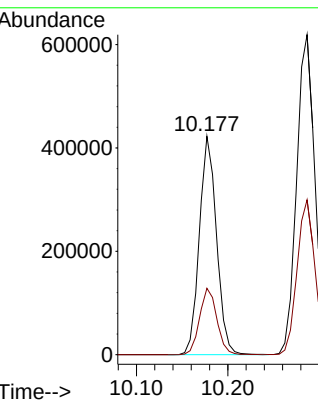
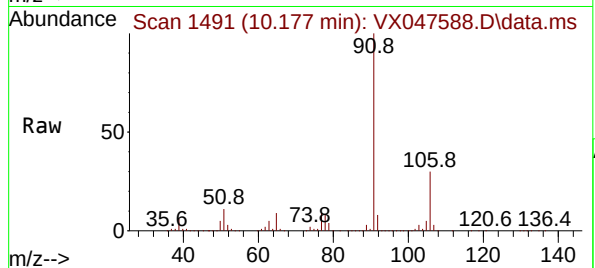
106 30.4 24.3 36.5

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

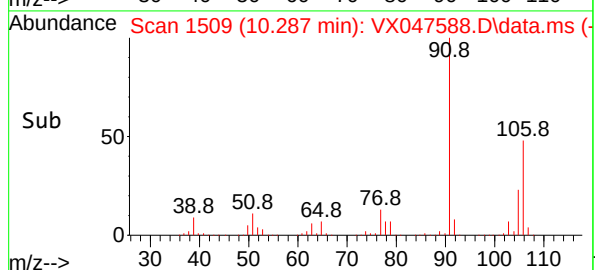
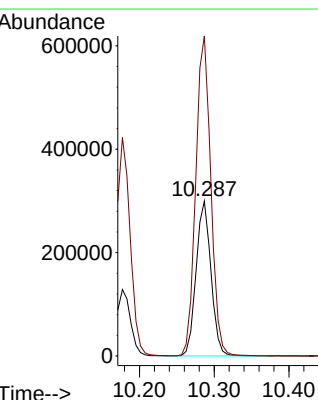
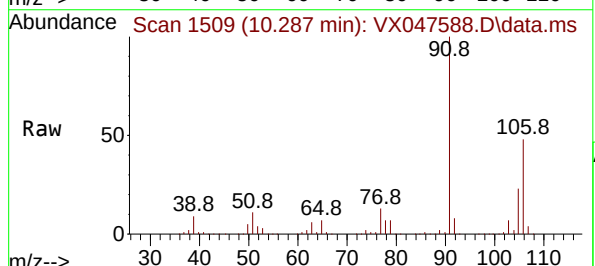
Acq: 16 Sep 2025 10:58

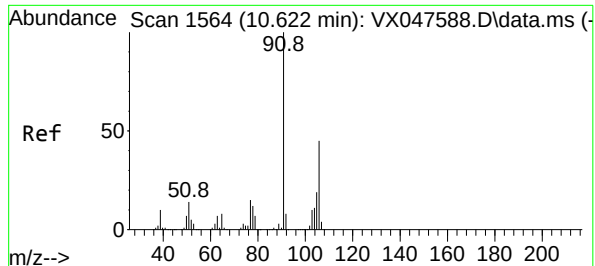
Tgt Ion:106 Resp: 412932

Ion Ratio Lower Upper

106 100

91 209.8 167.8 251.8





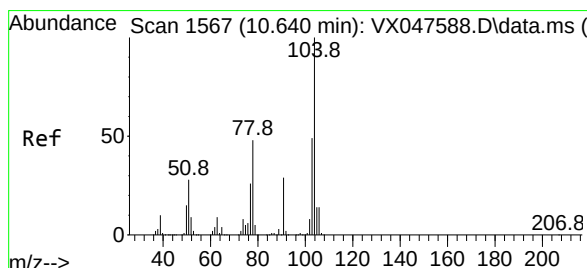
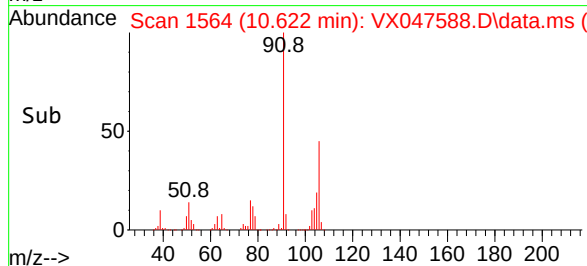
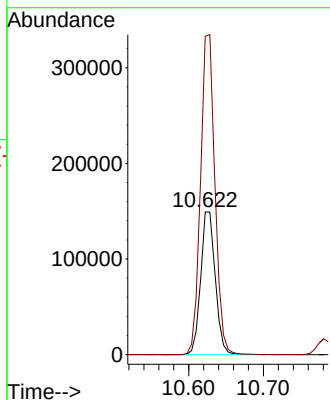
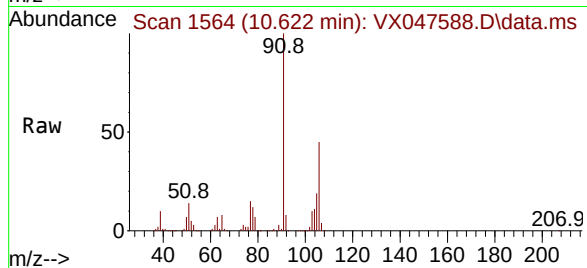
#69
o-Xylene
Concen: 53.084 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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

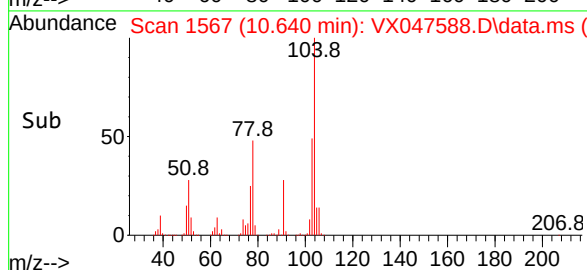
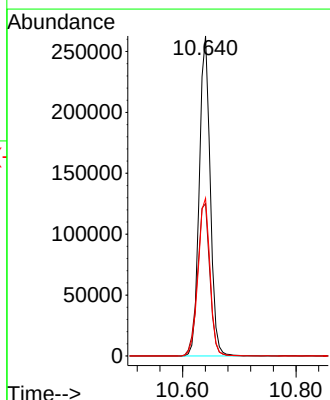
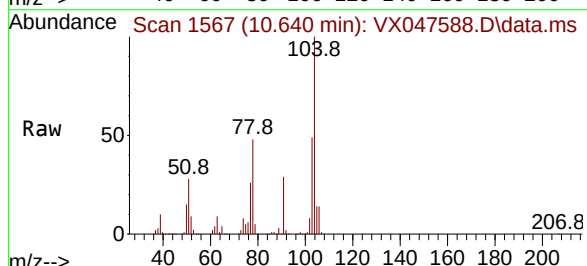
Manual Integrations
APPROVED

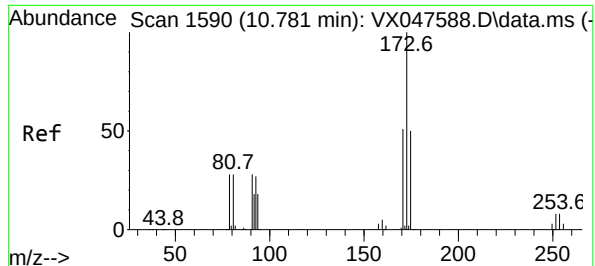
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





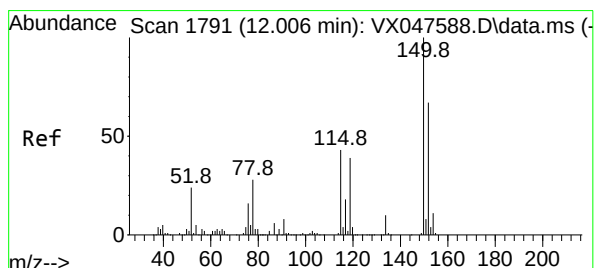
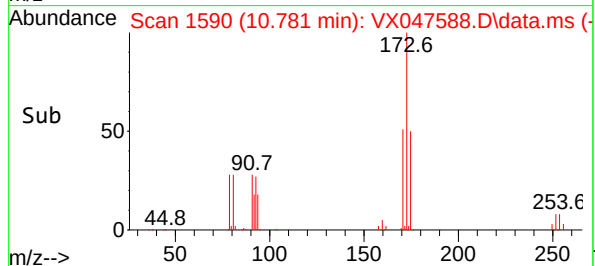
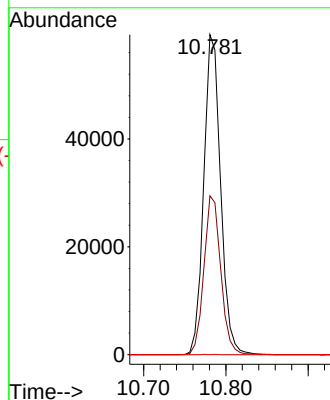
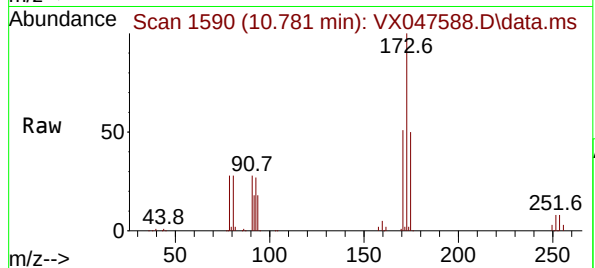
#71
Bromoform
Concen: 53.447 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

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

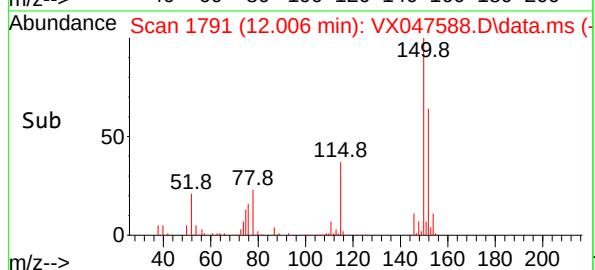
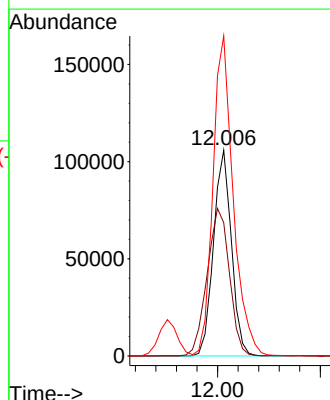
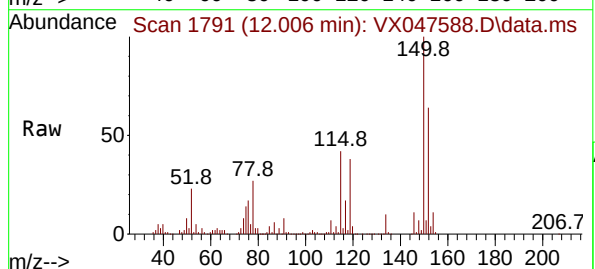
Manual Integrations
APPROVED

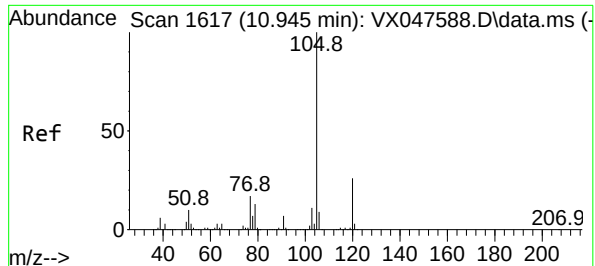
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

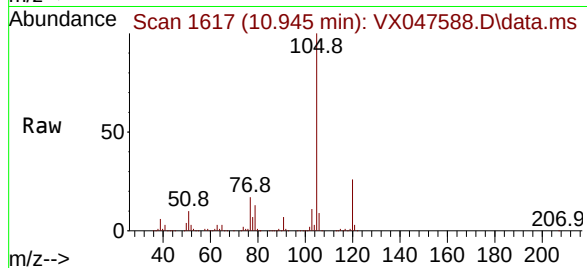
Tgt Ion:152 Resp: 127732
Ion Ratio Lower Upper
152 100
115 89.7 44.9 134.5
150 176.0 0.0 352.0





#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

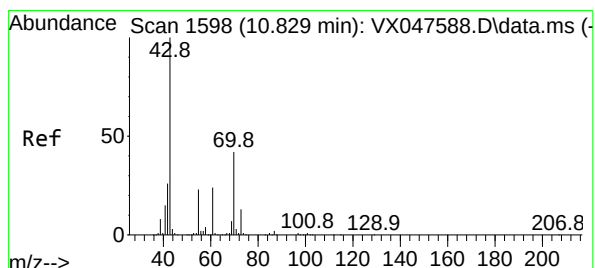
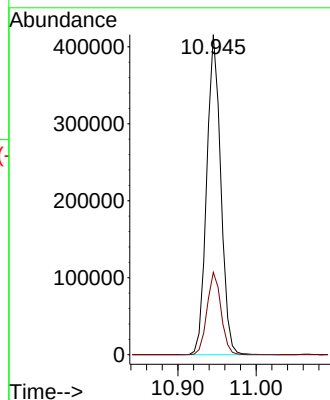
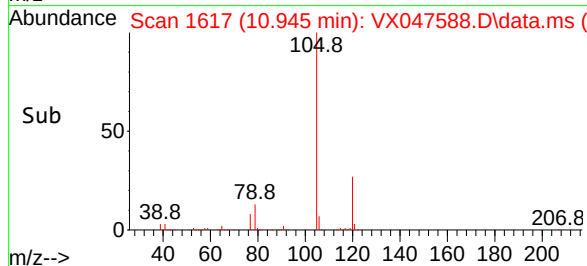
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



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

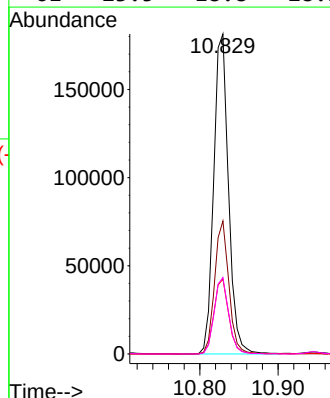
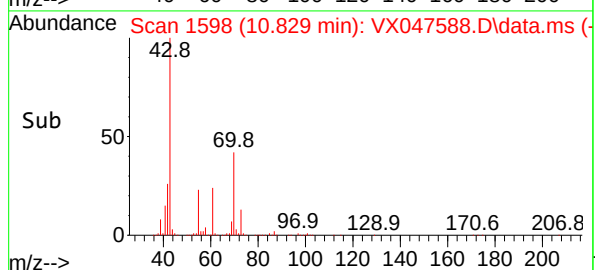
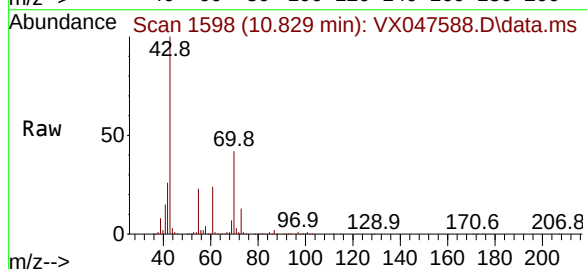
Manual Integrations
APPROVED

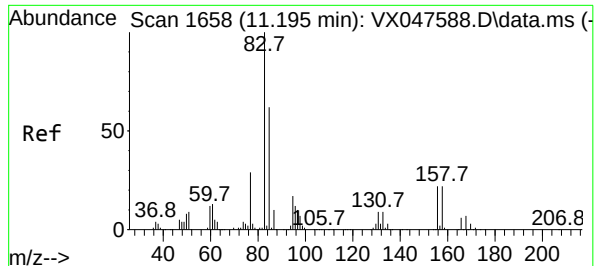
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





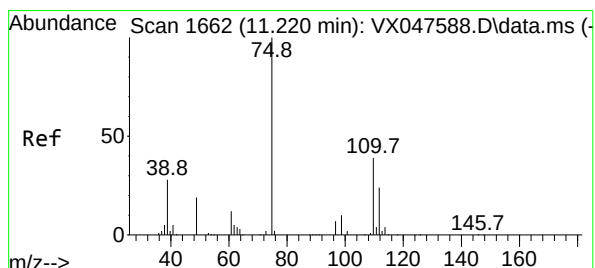
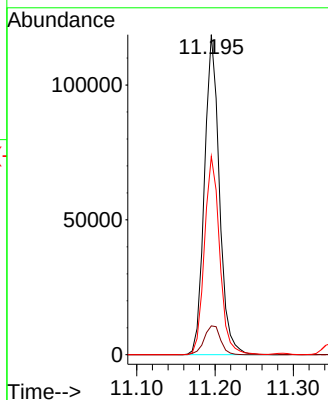
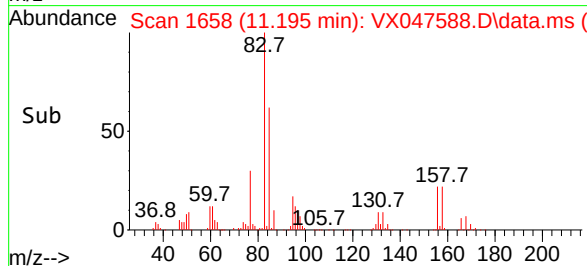
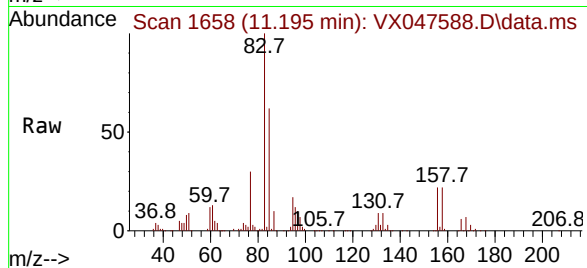
#75
1,1,2,2-Tetrachloroethane
Concen: 53.251 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

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

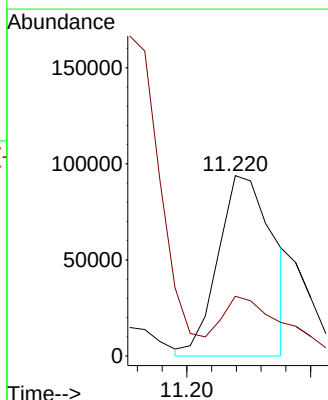
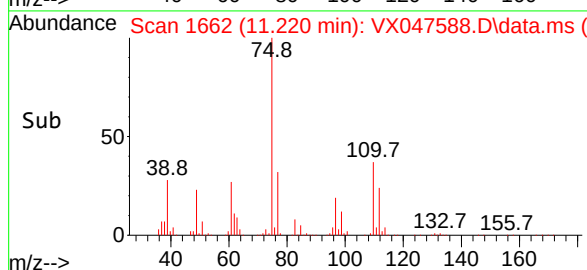
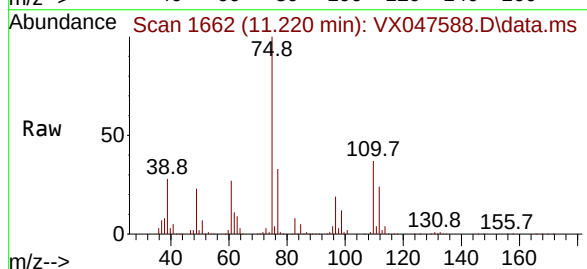
Manual Integrations
APPROVED

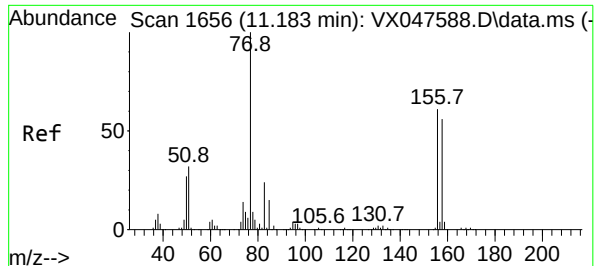
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





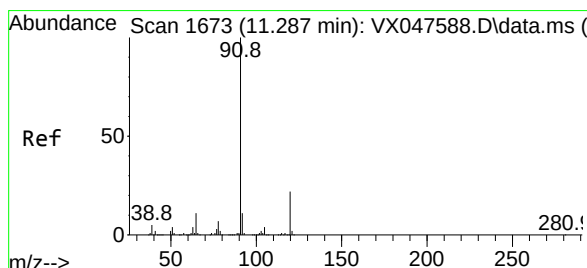
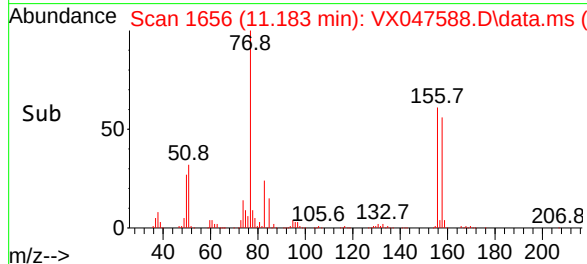
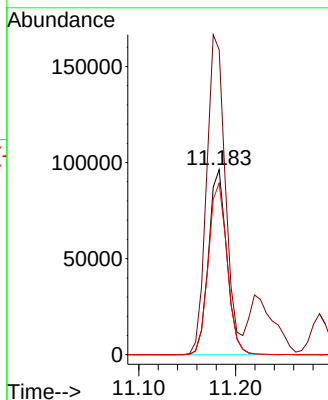
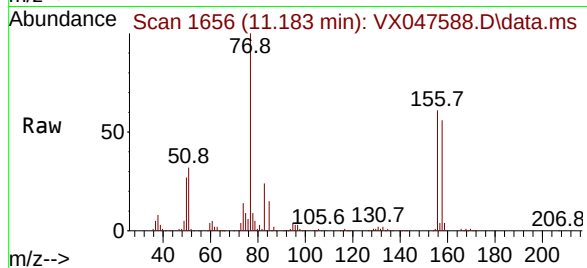
#77
Bromobenzene
Concen: 52.754 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

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

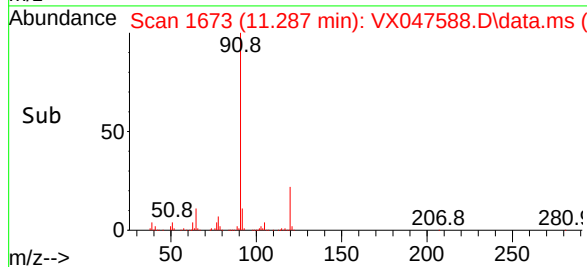
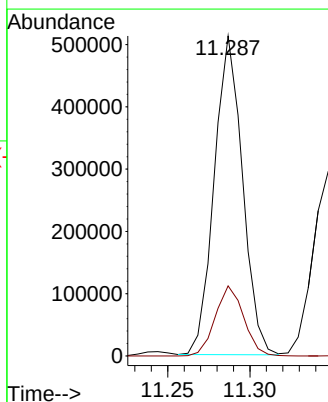
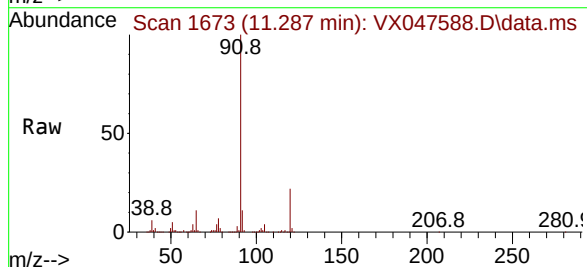
Manual Integrations
APPROVED

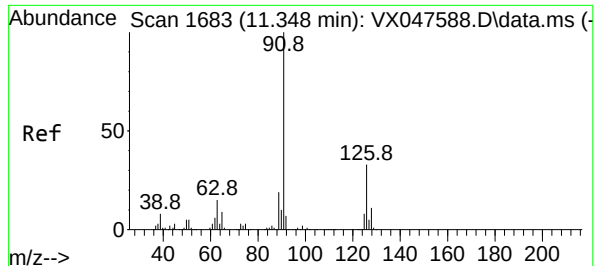
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





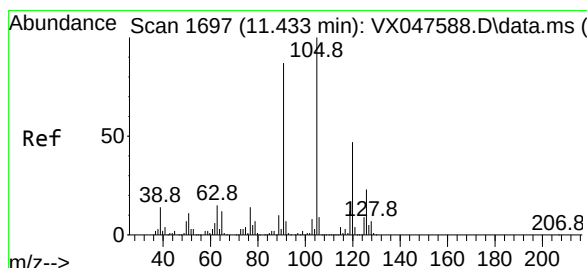
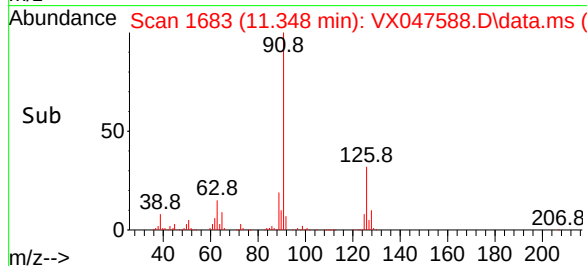
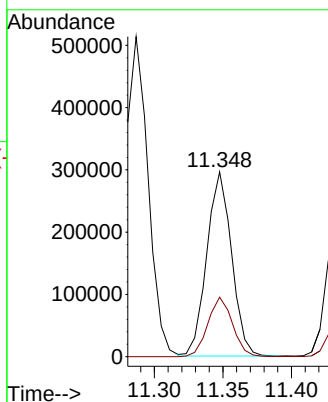
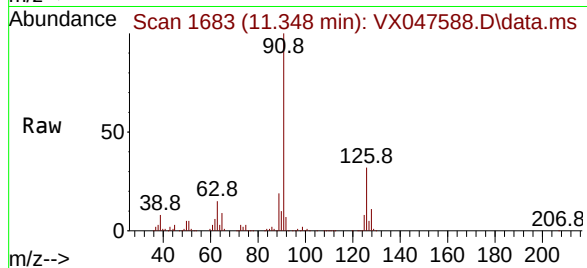
#79
2-Chlorotoluene
Concen: 52.965 ug/l
RT: 11.348 min Scan# 1683
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 37239
Ion Ratio Lower Upper
91 100
126 32.2 16.1 48.3

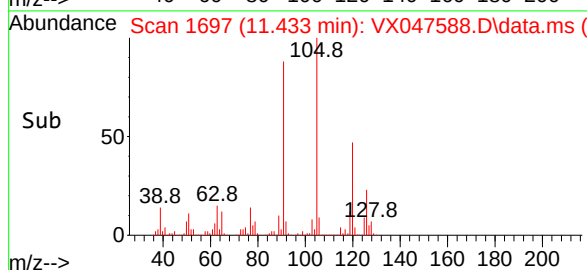
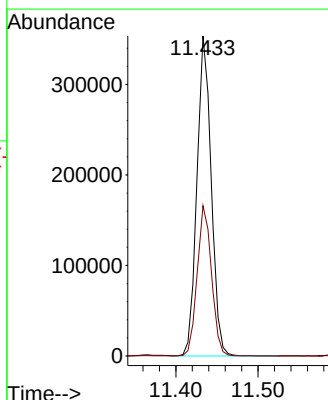
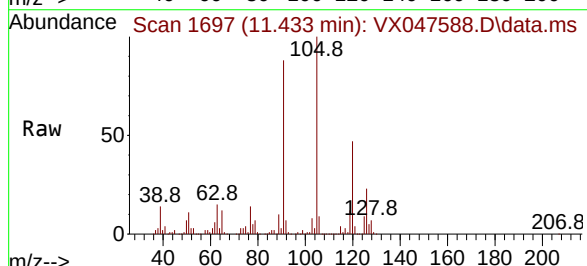
Manual Integrations
APPROVED

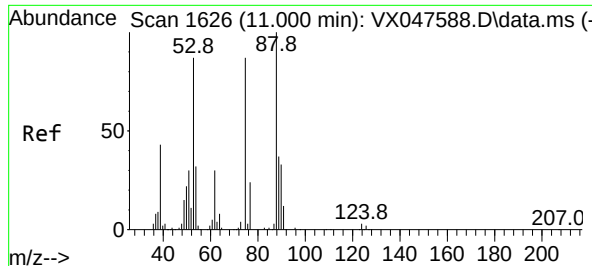
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





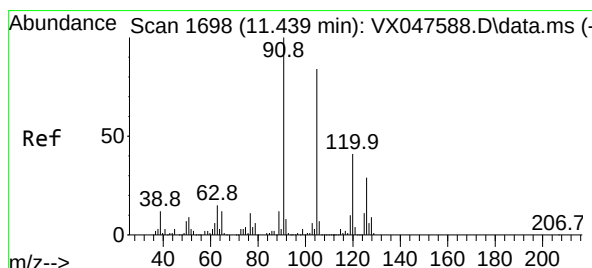
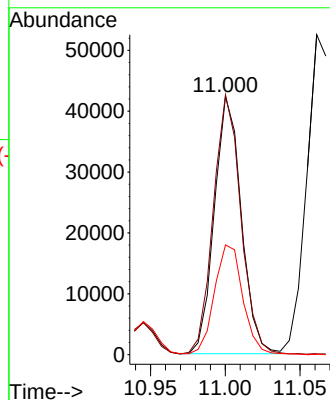
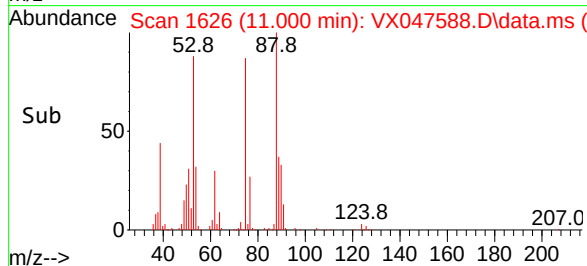
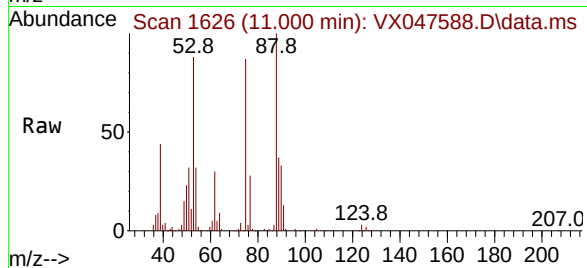
#81
trans-1,4-Dichloro-2-butene
Concen: 52.190 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

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

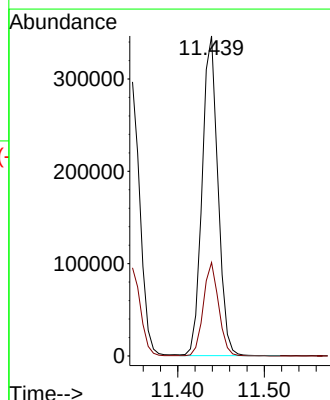
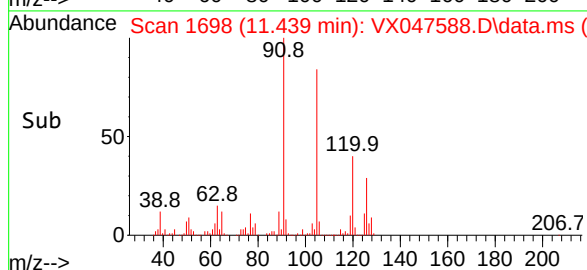
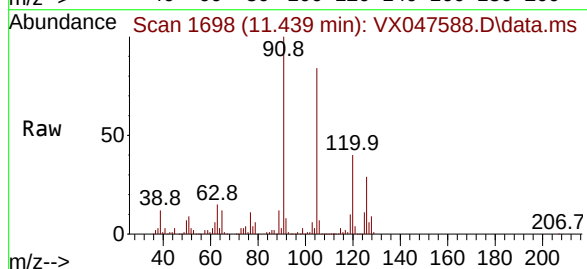
Manual Integrations
APPROVED

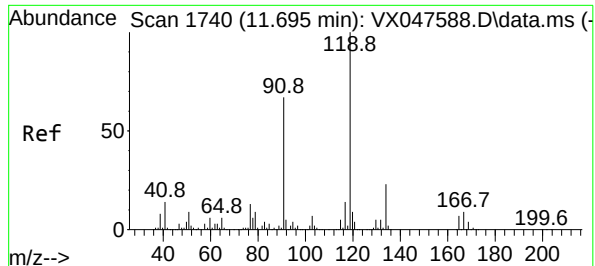
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





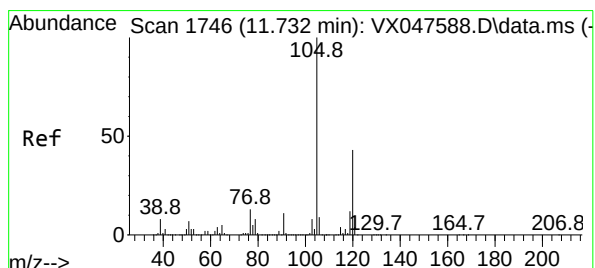
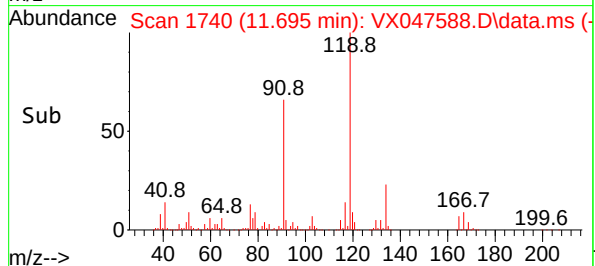
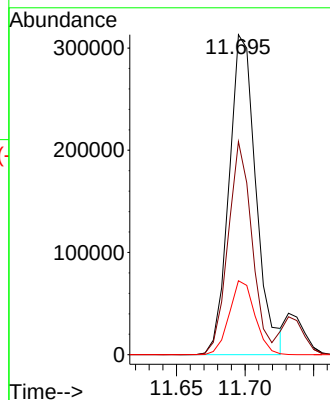
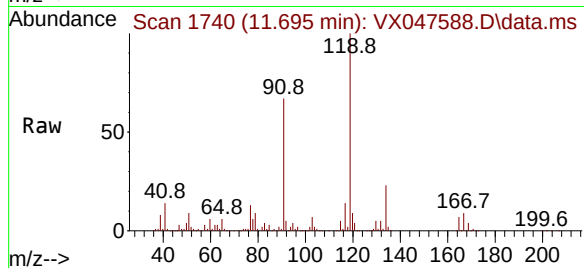
#83
tert-Butylbenzene
Concen: 52.539 ug/l
RT: 11.695 min Scan# 1740
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:119 Resp: 429107
Ion Ratio Lower Upper
119 100
91 59.2 29.6 88.8
134 22.0 11.0 33.0

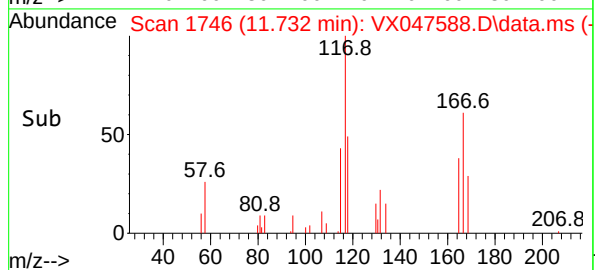
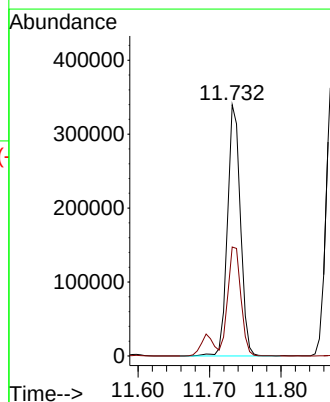
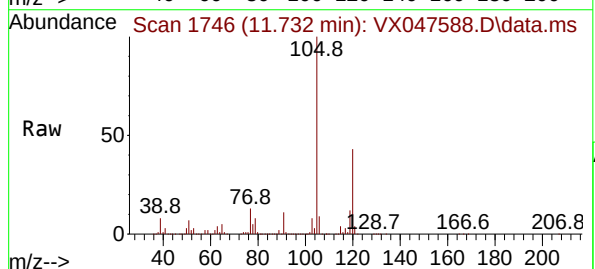
Manual Integrations
APPROVED

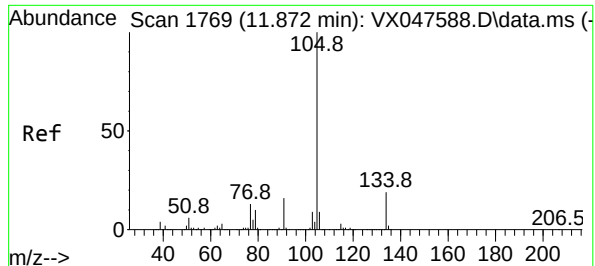
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

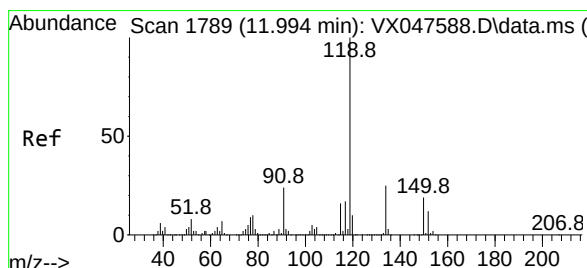
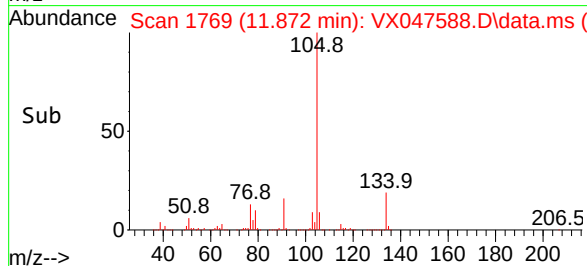
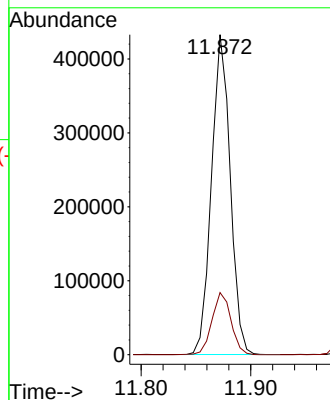
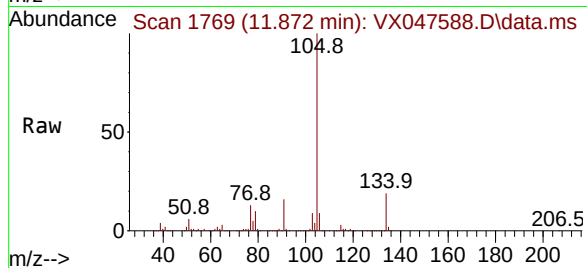
134 19.7 9.8 29.5

Manual Integrations

APPROVED

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

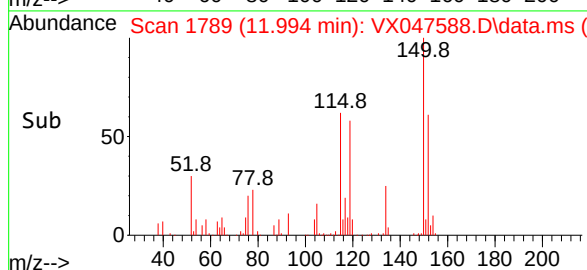
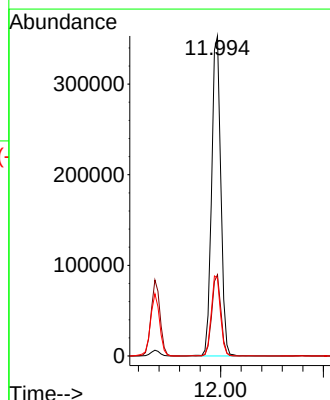
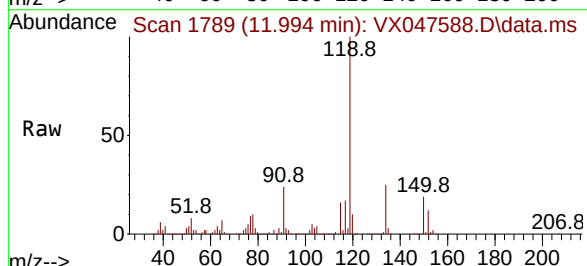
Tgt Ion:119 Resp: 436704

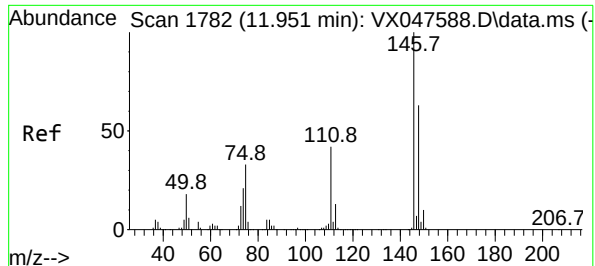
Ion Ratio Lower Upper

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

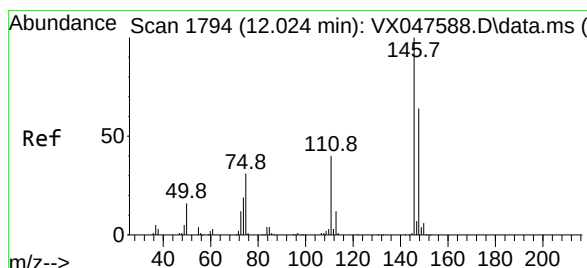
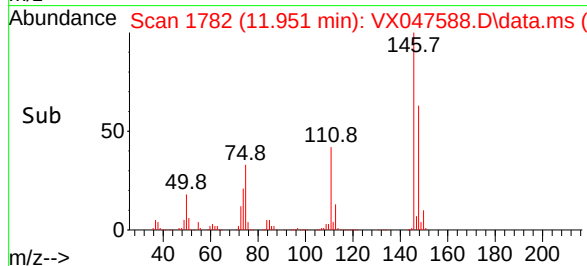
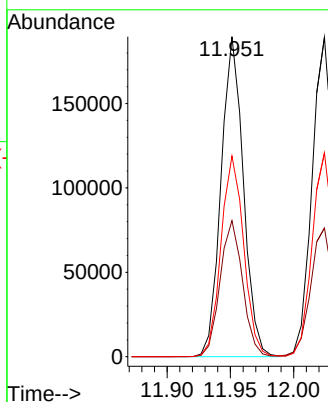
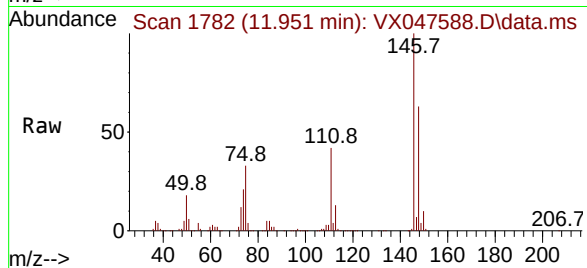
148 64.0 32.0 96.0

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

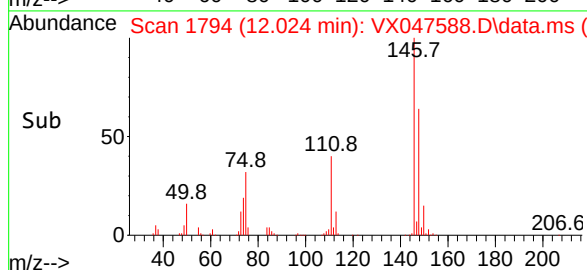
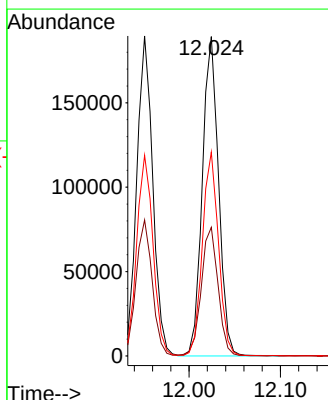
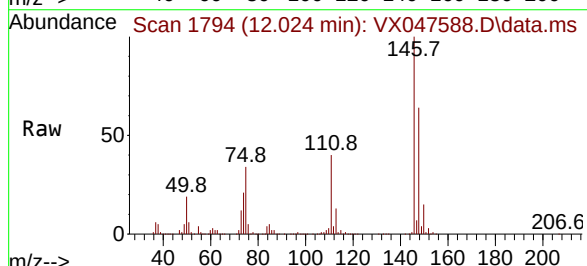
Tgt Ion:146 Resp: 233975

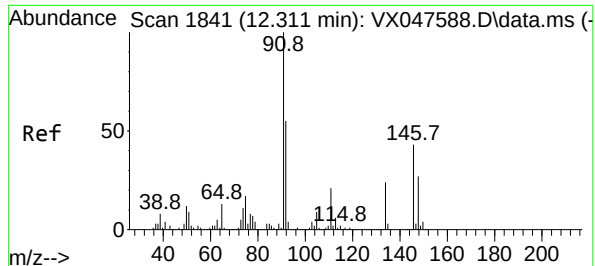
Ion Ratio Lower Upper

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 :

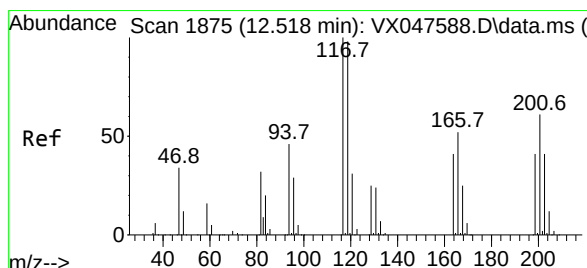
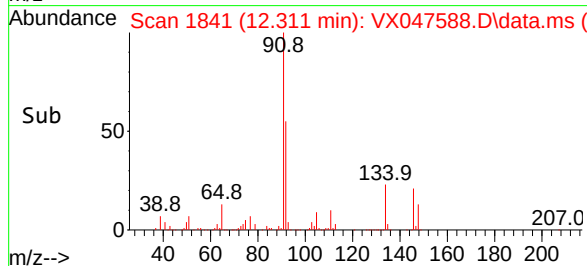
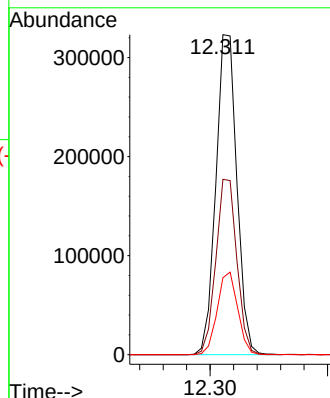
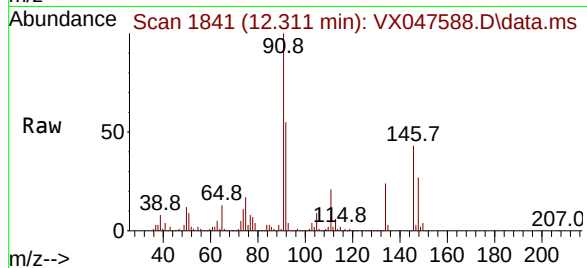
VSTDICCC050

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

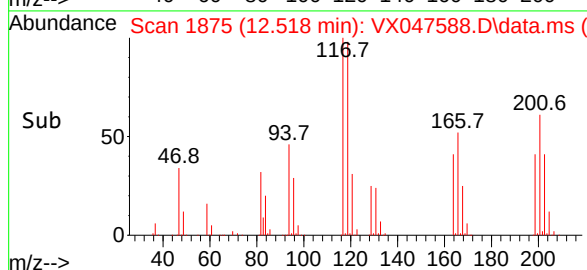
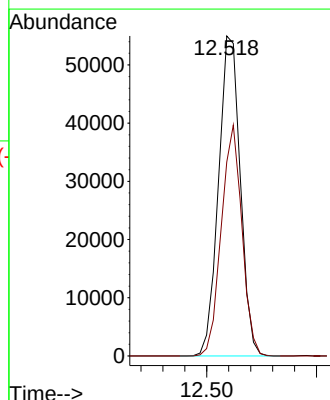
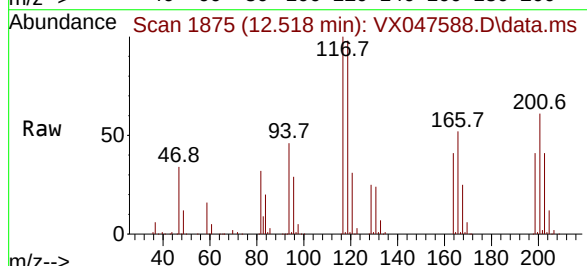
RT: 12.518 min Scan# 1875

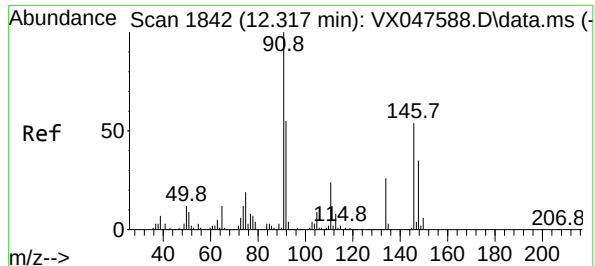
Delta R.T. 0.000 min

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





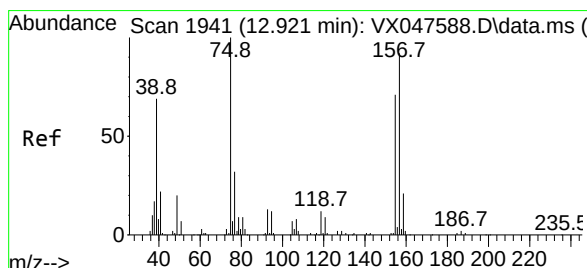
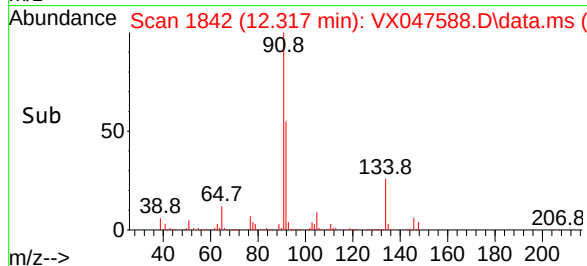
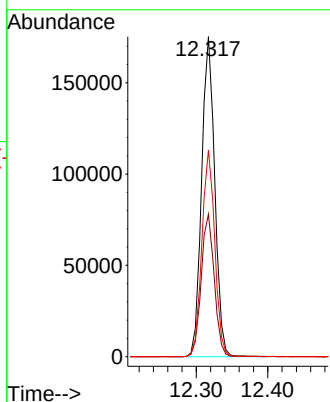
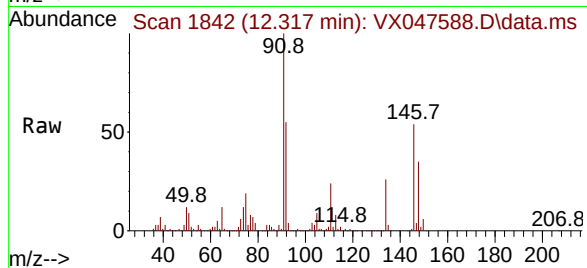
#91
1,2-Dichlorobenzene
Concen: 52.688 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

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

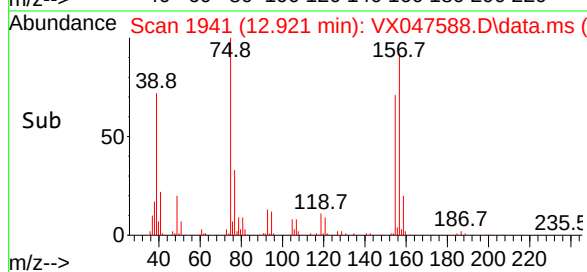
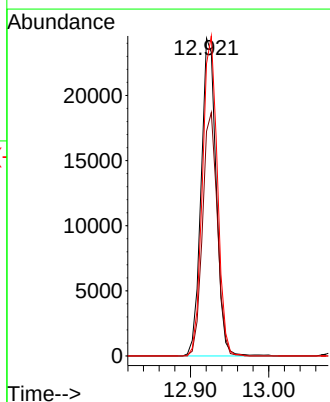
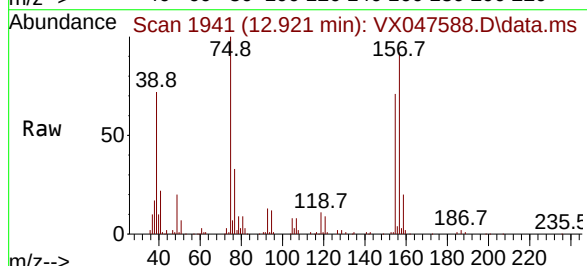
Manual Integrations
APPROVED

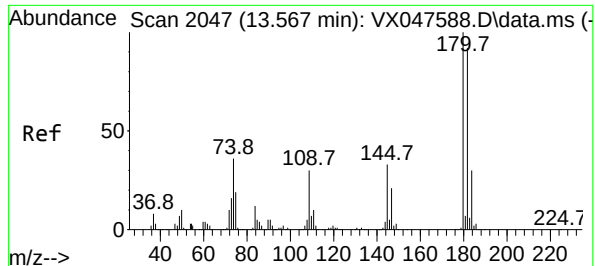
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

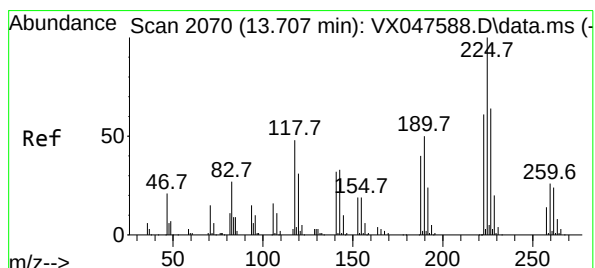
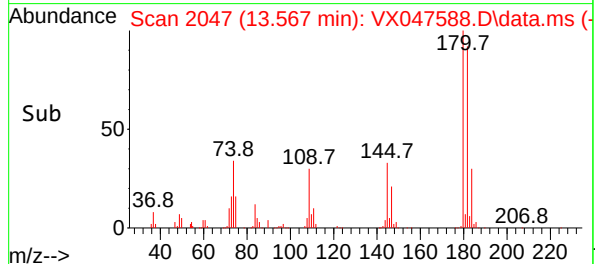
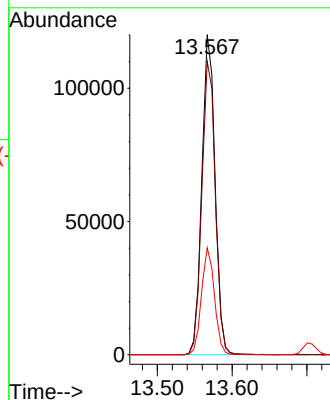
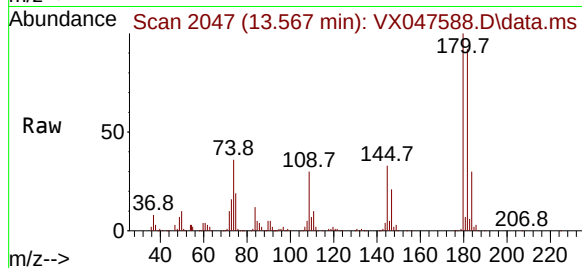
Tgt Ion:	180	Resp:	147670
Ion Ratio	Lower	Upper	
180	100		
182	93.2	46.6	139.8
145	32.7	16.4	49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#94

Hexachlorobutadiene

Concen: 52.510 ug/l

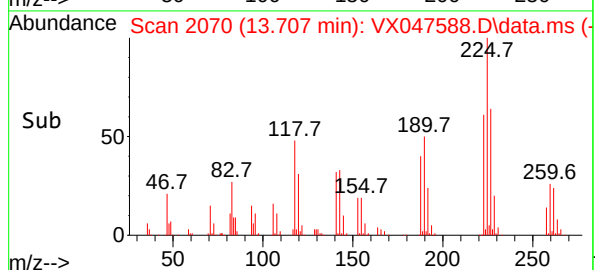
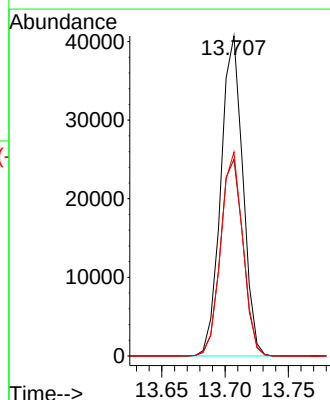
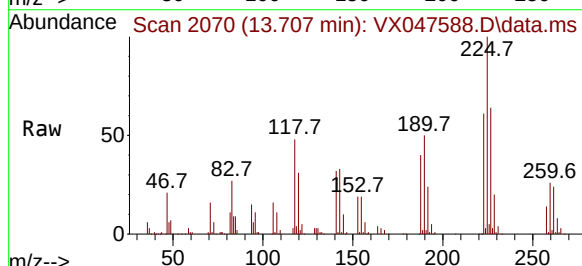
RT: 13.707 min Scan# 2070

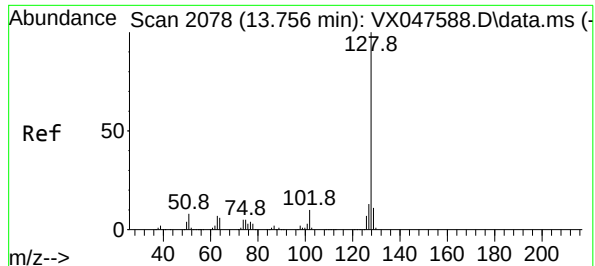
Delta R.T. 0.000 min

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





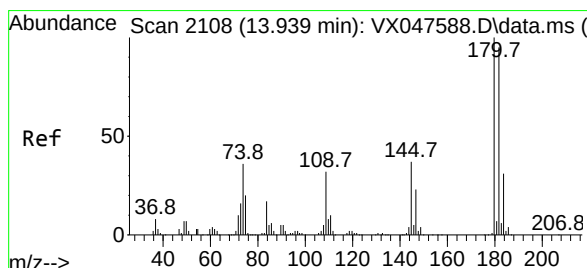
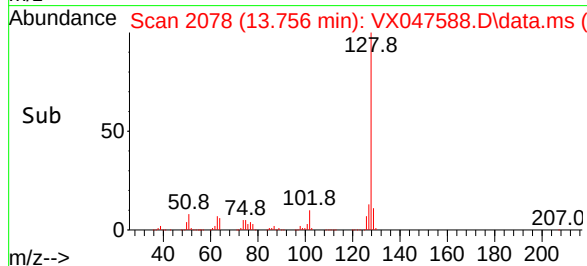
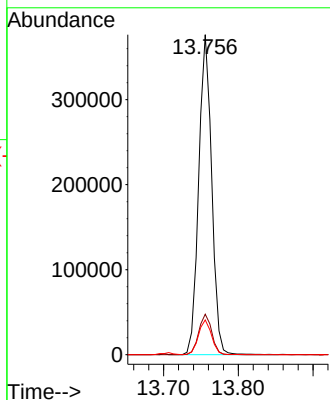
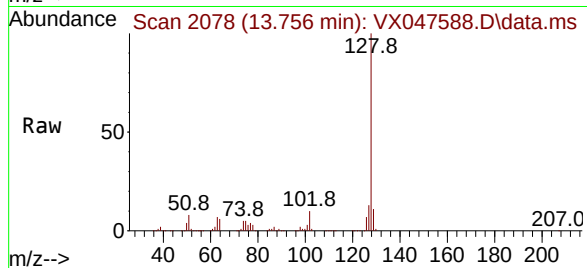
#95
Naphthalene
Concen: 53.966 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. 0.000 min
Lab File: VX047588.D
Acq: 16 Sep 2025 10:58

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

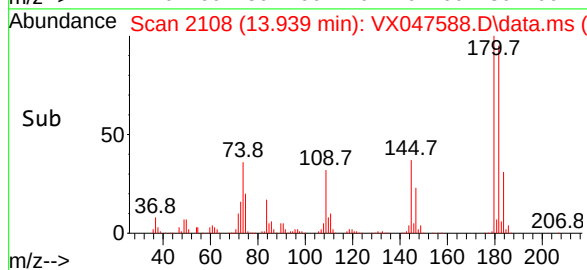
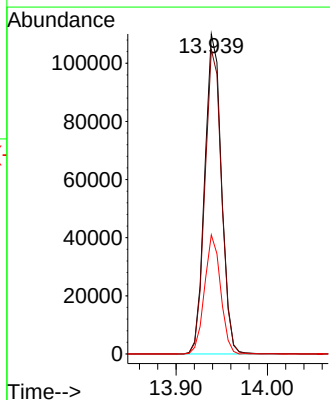
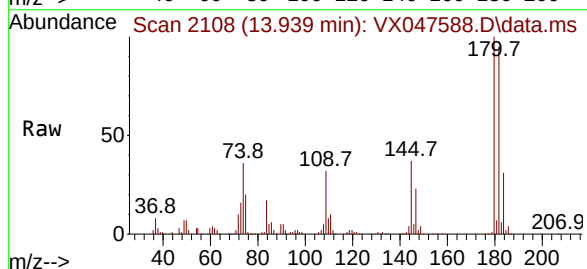
Manual Integrations
APPROVED

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 : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :

MSVOA_X

Client SampleId :

VSTDICC100

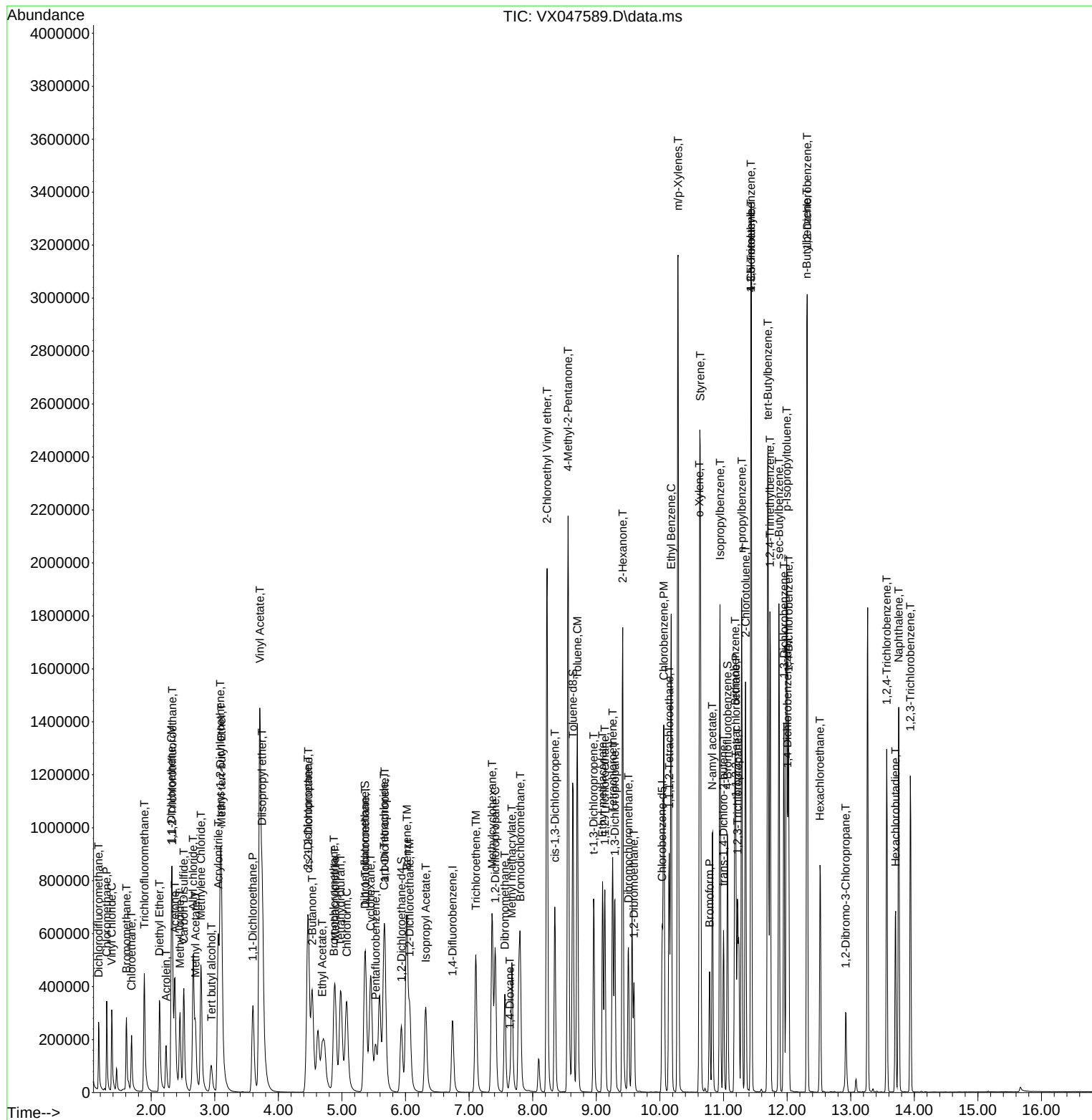
Manual Integrations

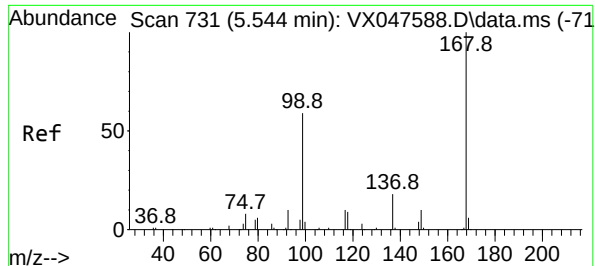
APPROVED

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





#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

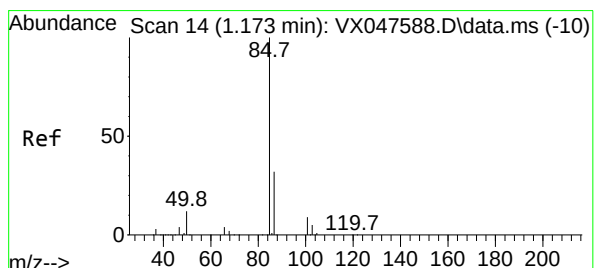
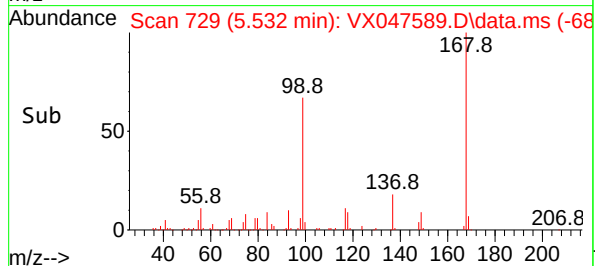
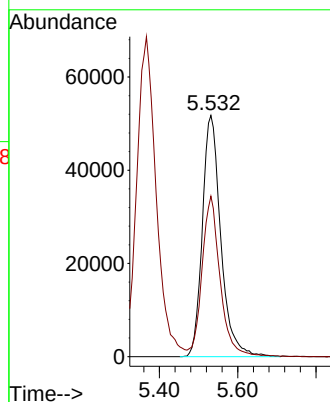
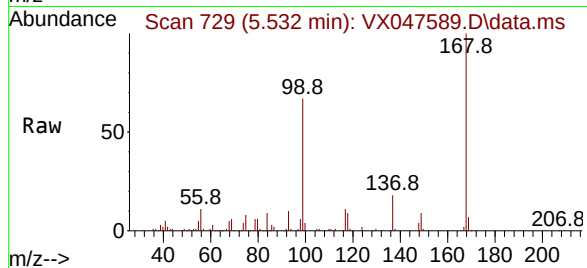
99 66.4 48.8 73.2

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

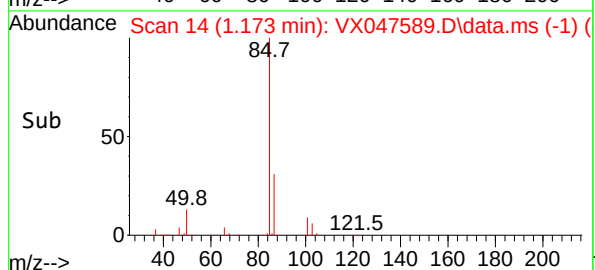
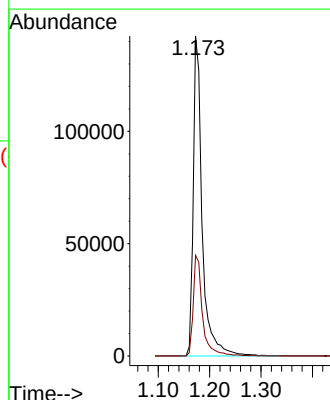
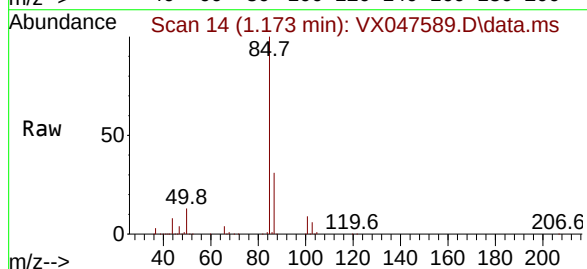
Acq: 16 Sep 2025 11:40

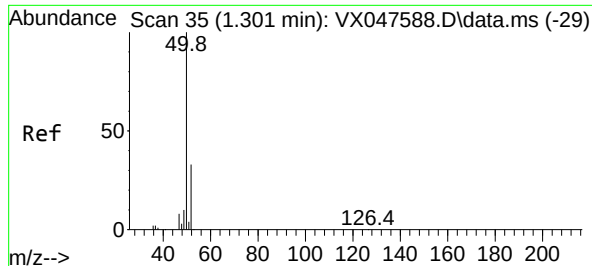
Tgt Ion: 85 Resp: 172727

Ion Ratio Lower Upper

85 100

87 31.4 15.8 47.3





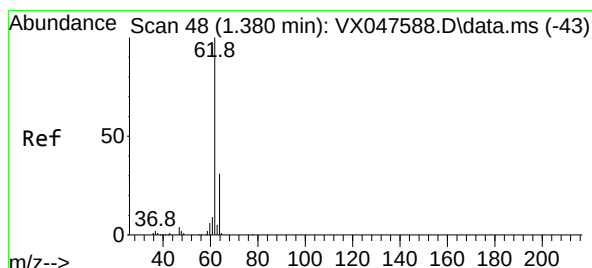
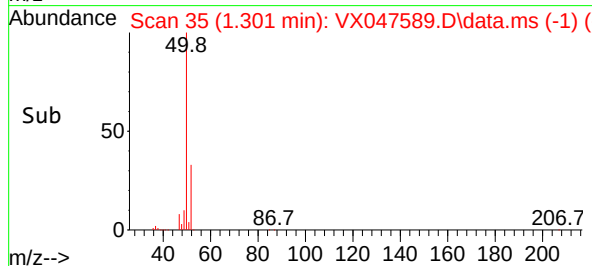
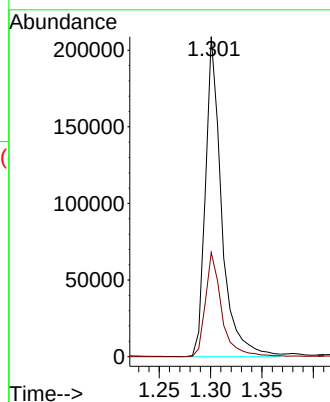
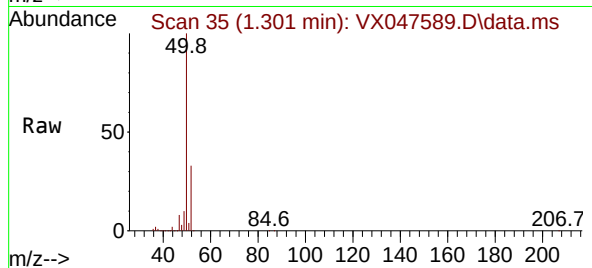
#3
Chloromethane
Concen: 99.472 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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

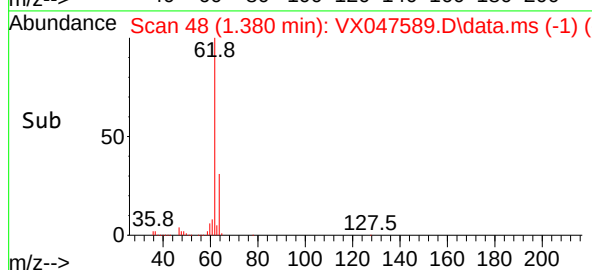
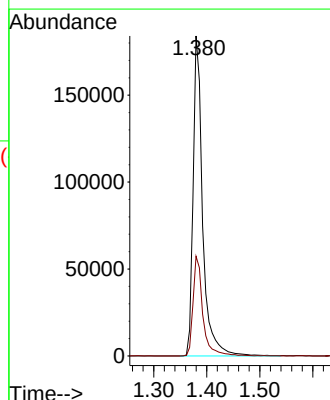
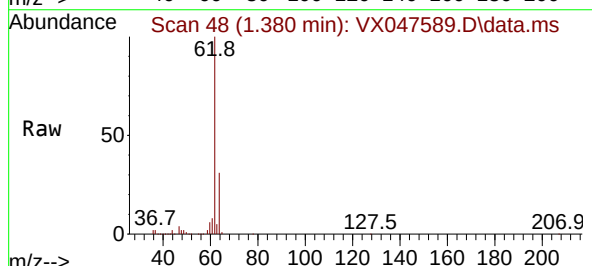
Manual Integrations
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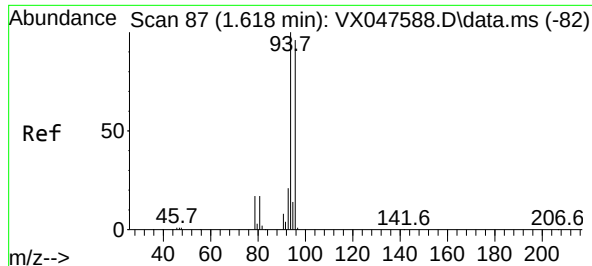
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





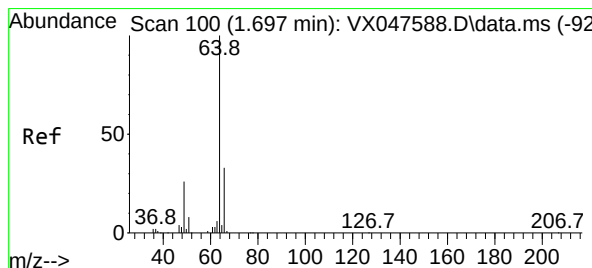
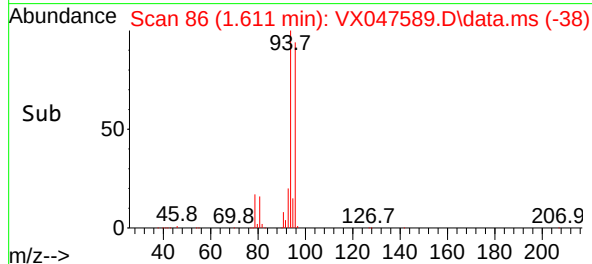
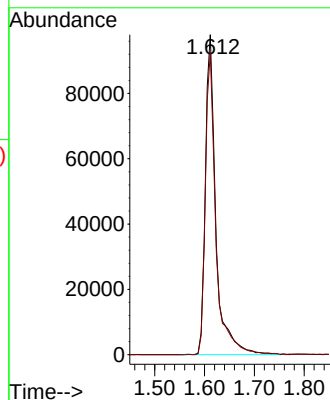
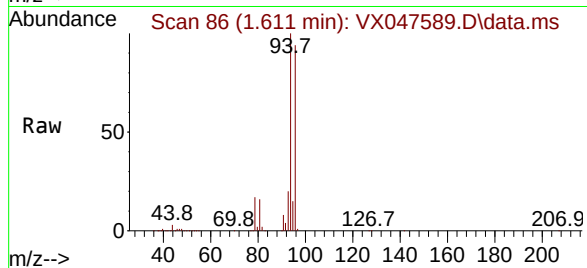
#5
Bromomethane
Concen: 100.076 ug/l
RT: 1.611 min Scan# 80
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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

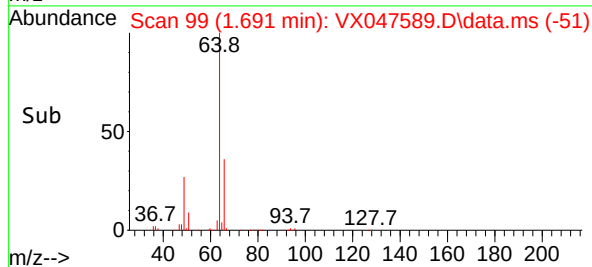
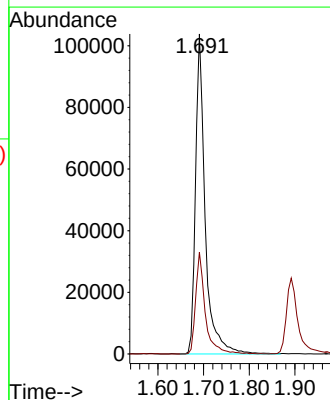
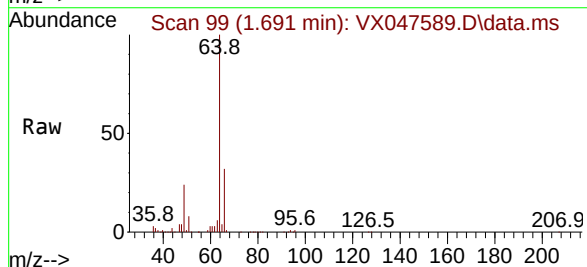
Manual Integrations
APPROVED

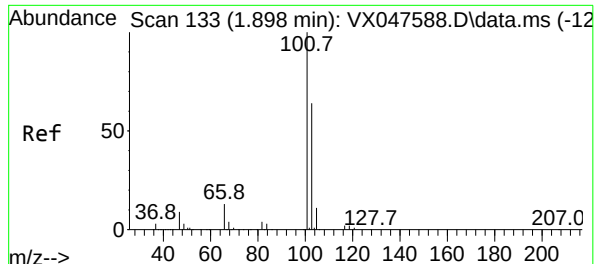
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

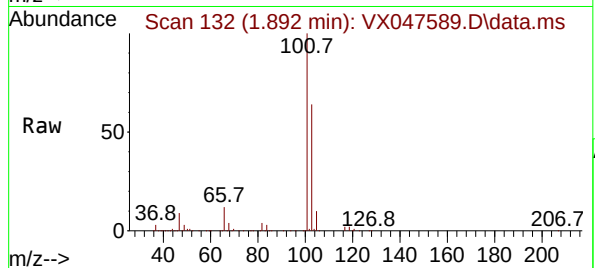
Tgt Ion: 64 Resp: 152487
Ion Ratio Lower Upper
64 100
66 31.8 26.1 39.1





#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

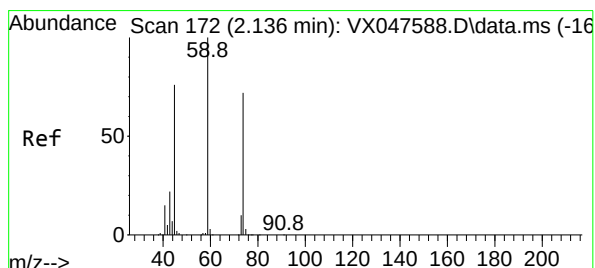
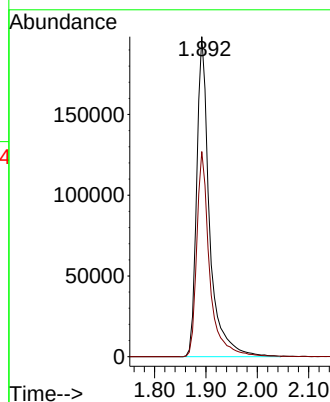
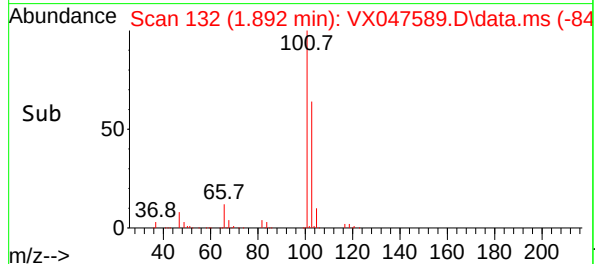
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



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

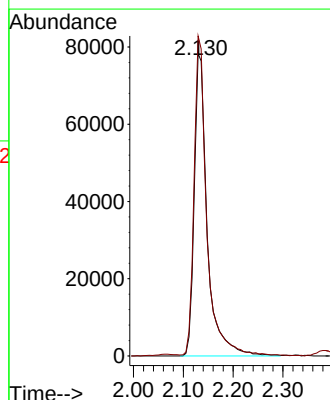
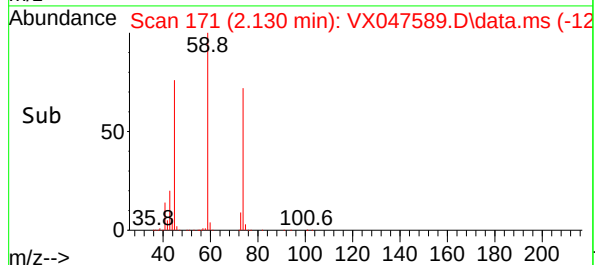
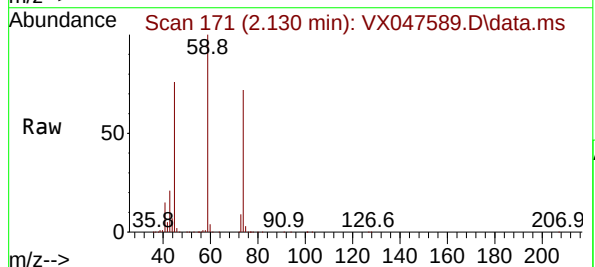
Manual Integrations
APPROVED

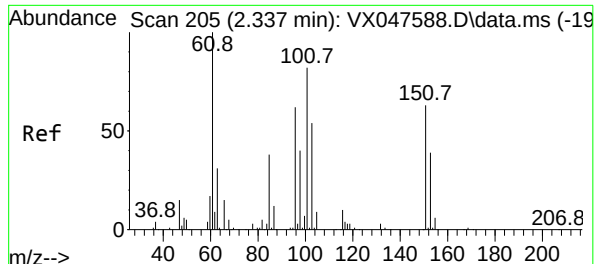
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

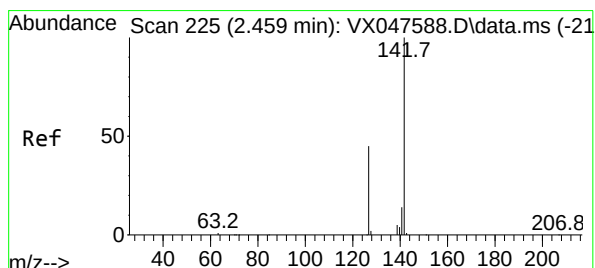
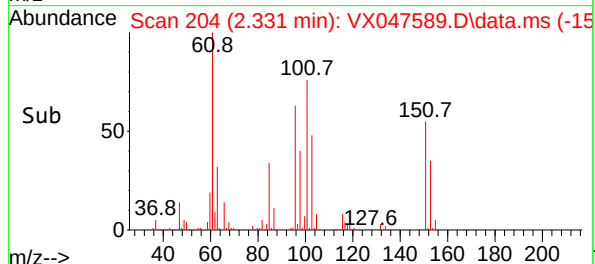
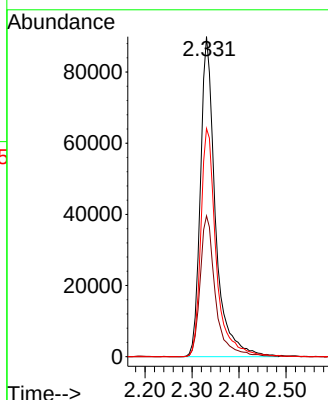
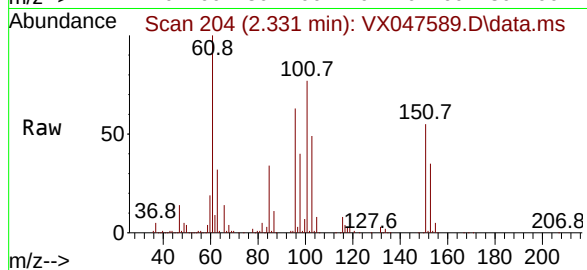
VSTDICC100

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

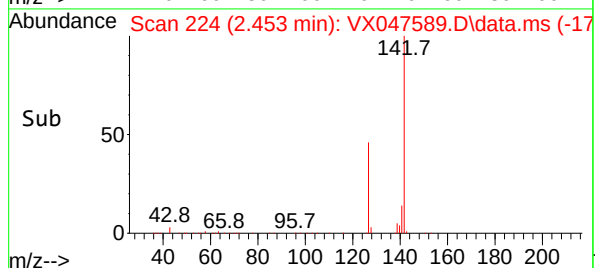
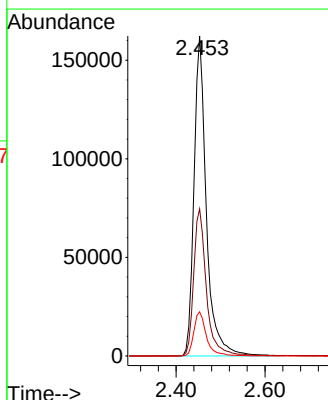
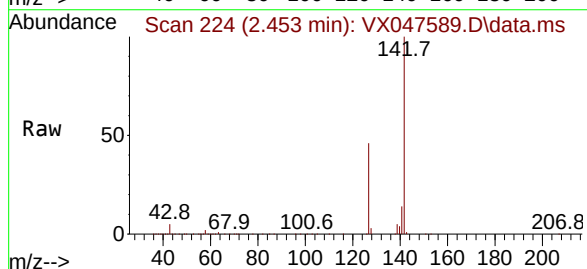
RT: 2.453 min Scan# 224

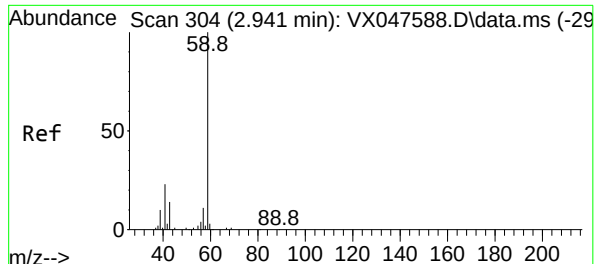
Delta R.T. -0.006 min

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

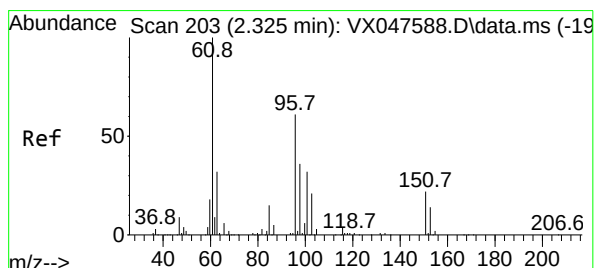
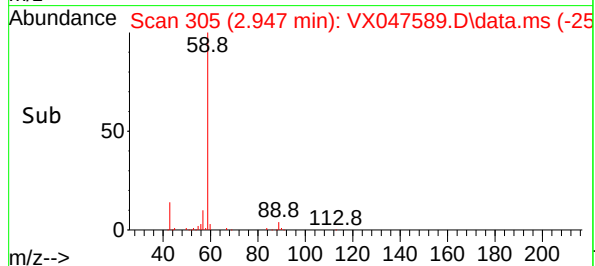
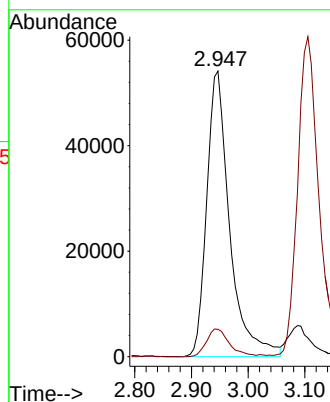
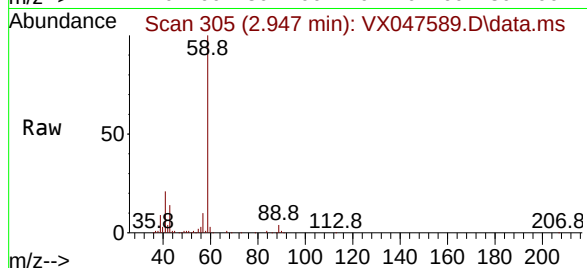
57 9.7 8.3 12.5

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

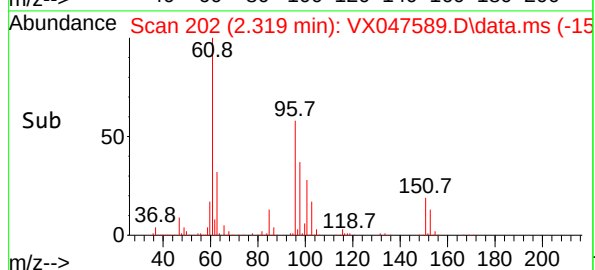
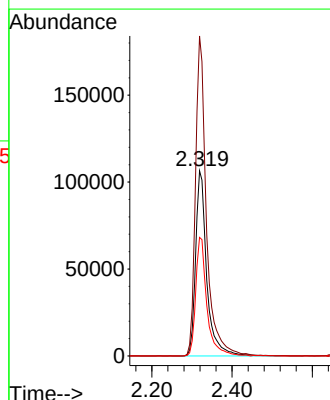
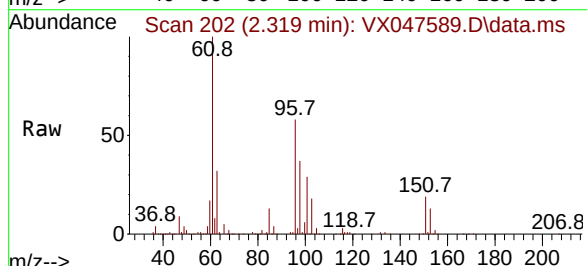
Tgt Ion: 96 Resp: 206097

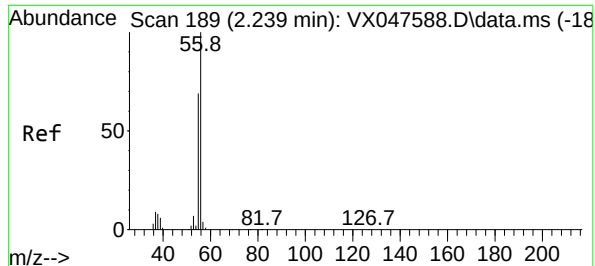
Ion Ratio Lower Upper

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

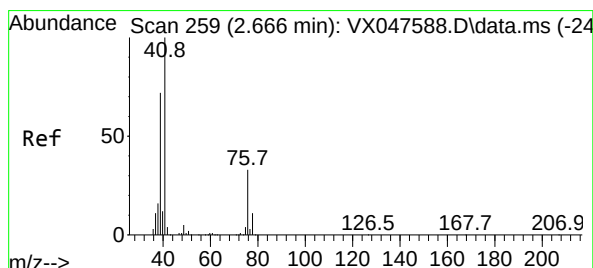
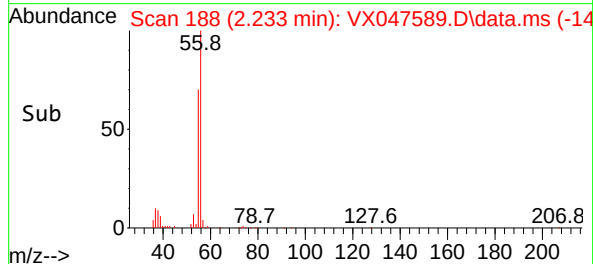
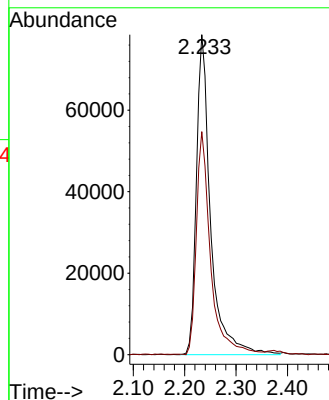
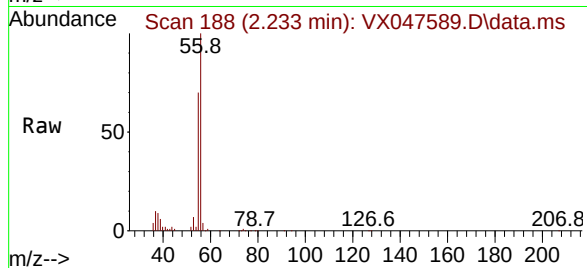
55 69.4 57.2 85.8

Manual Integrations

APPROVED

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

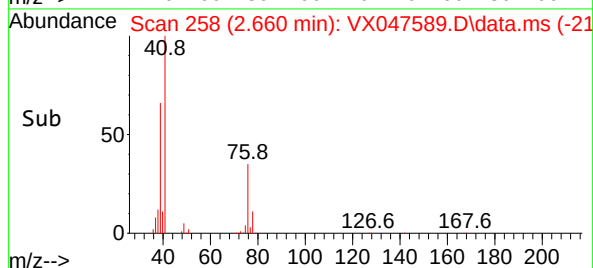
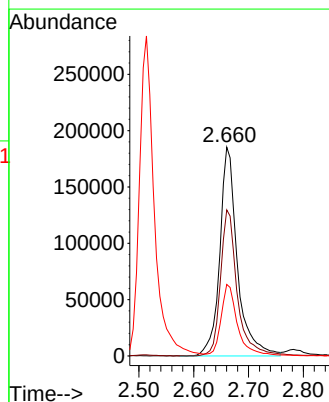
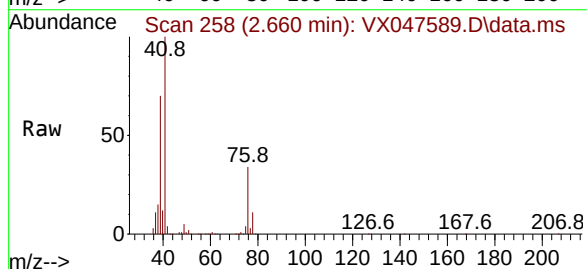
Tgt Ion: 41 Resp: 415140

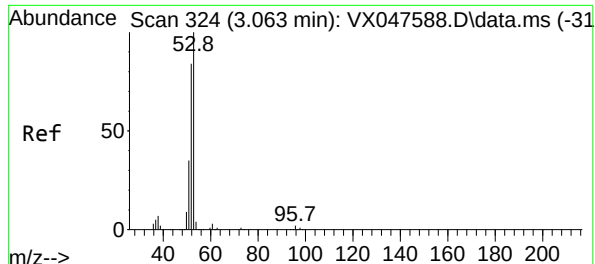
Ion Ratio Lower Upper

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

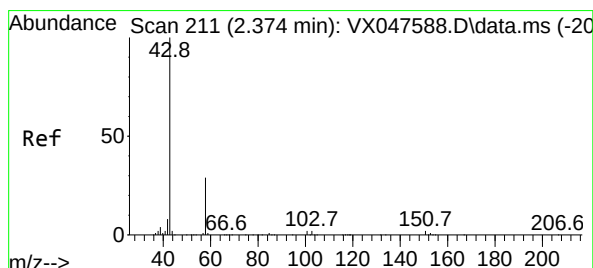
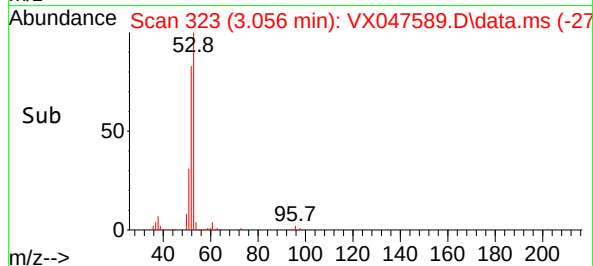
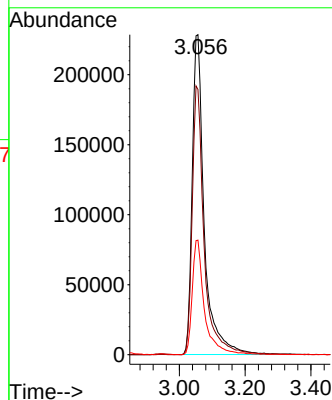
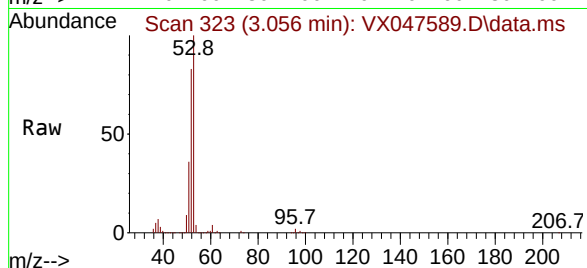
51 36.4 29.5 44.3

Manual Integrations

APPROVED

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

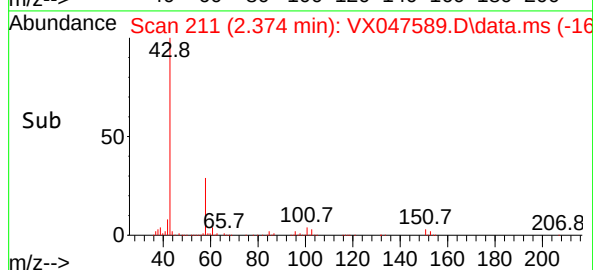
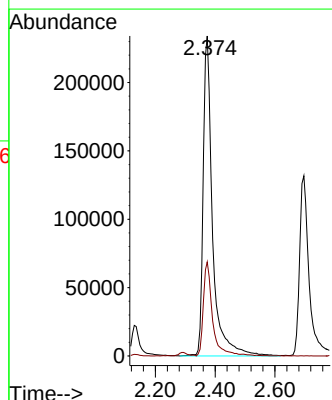
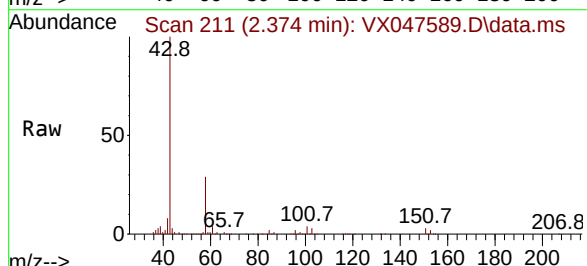
Acq: 16 Sep 2025 11:40

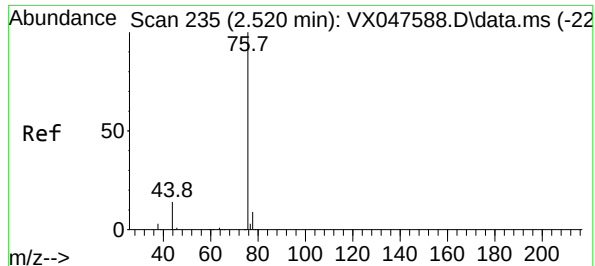
Tgt Ion: 43 Resp: 510542

Ion Ratio Lower Upper

43 100

58 29.4 23.4 35.0





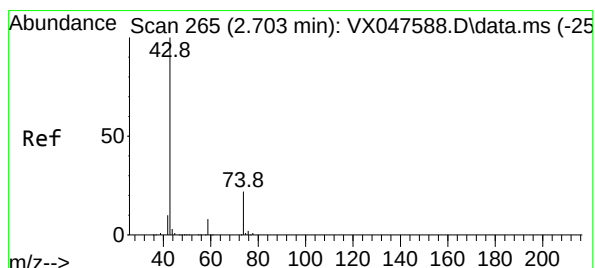
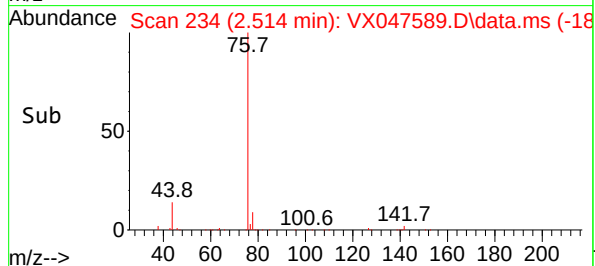
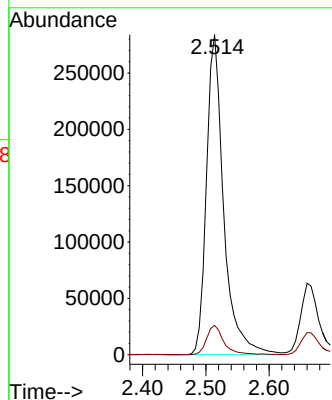
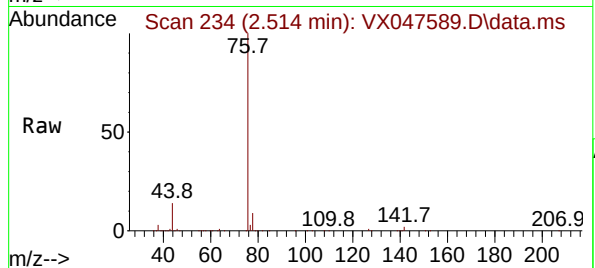
#17
Carbon Disulfide
Concen: 97.693 ug/l
RT: 2.514 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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

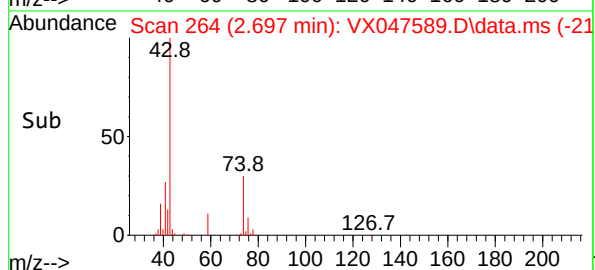
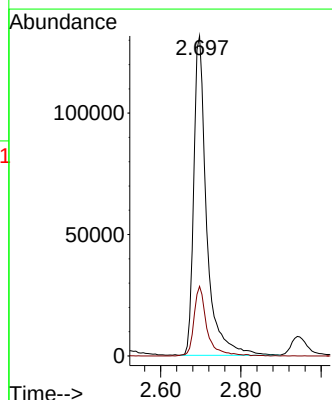
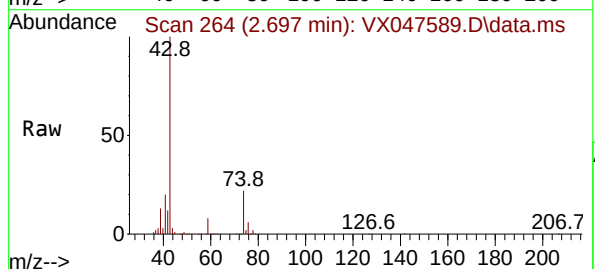
Manual Integrations
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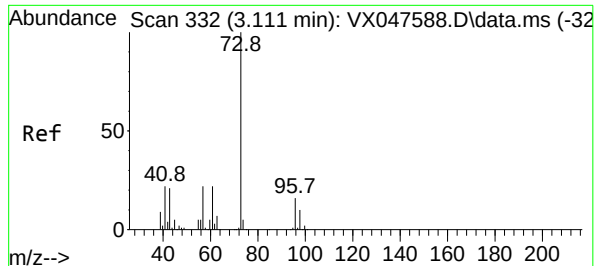
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





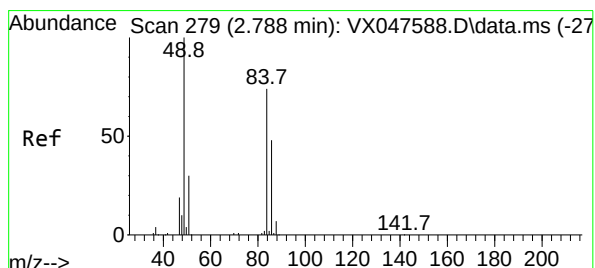
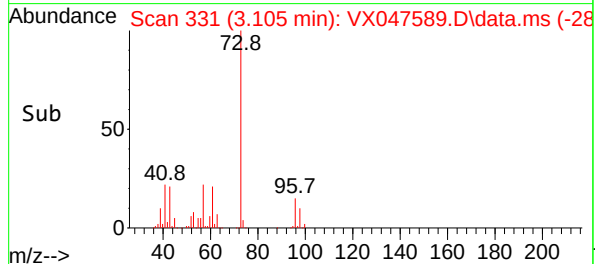
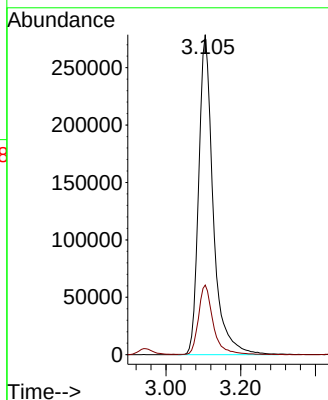
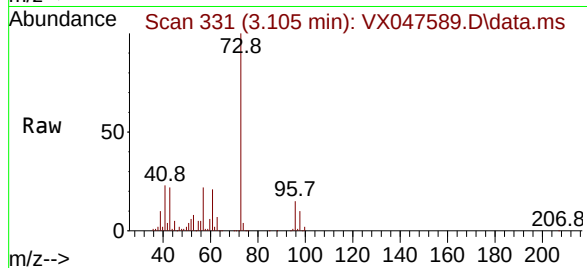
#19
Methyl tert-butyl Ether
Concen: 102.011 ug/l
RT: 3.105 min Scan# 311
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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

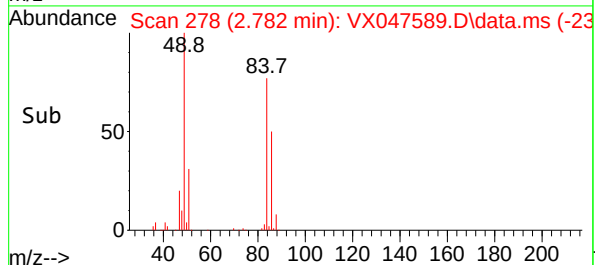
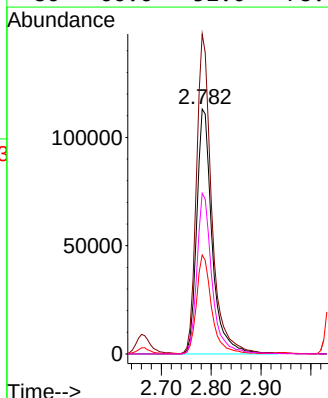
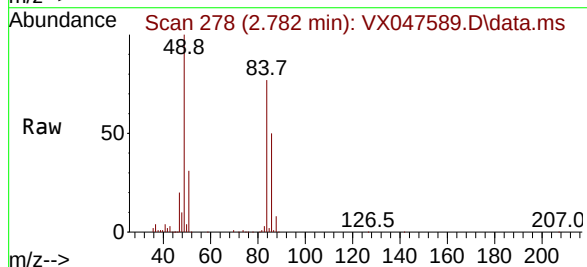
Manual Integrations
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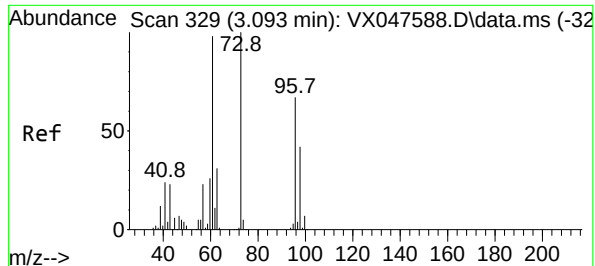
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





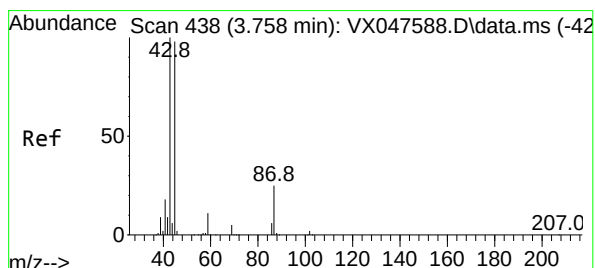
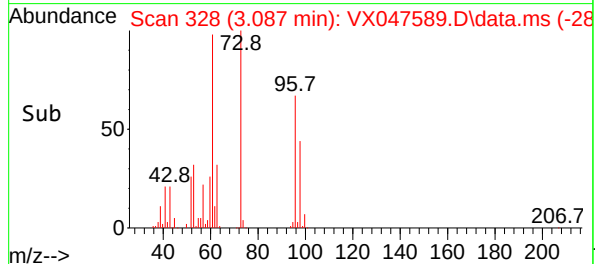
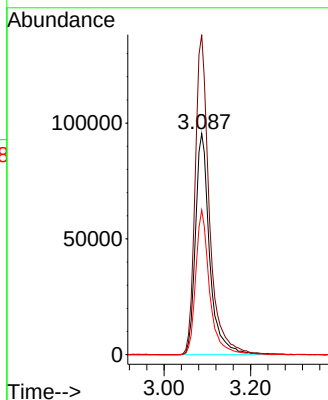
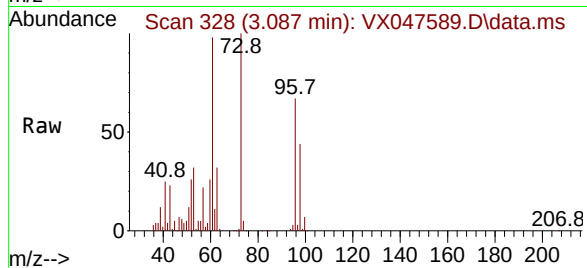
#21
trans-1,2-Dichloroethene
Concen: 100.566 ug/l
RT: 3.087 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

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

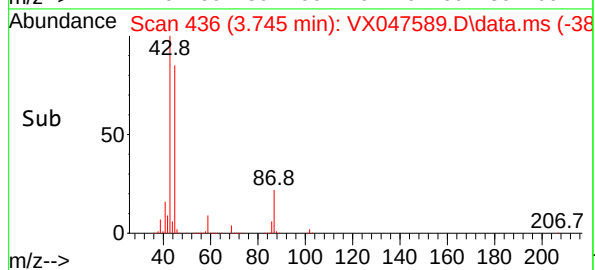
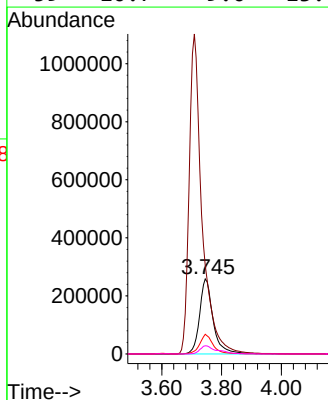
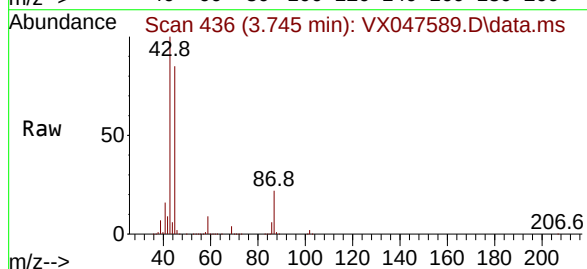
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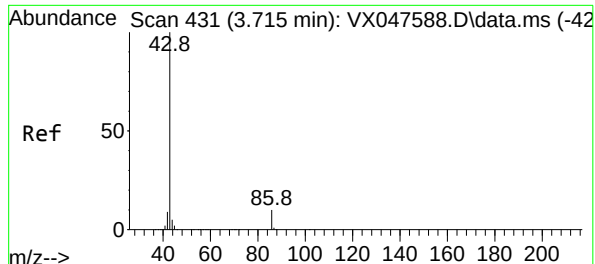
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





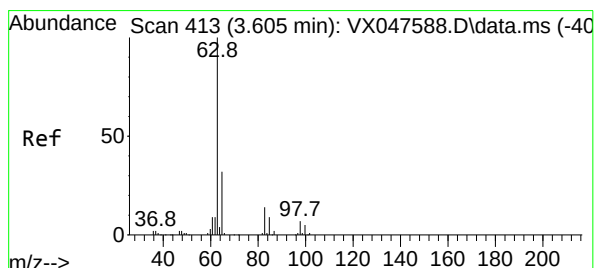
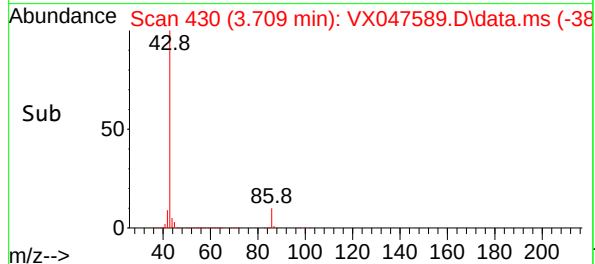
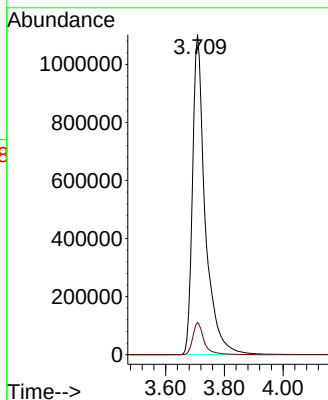
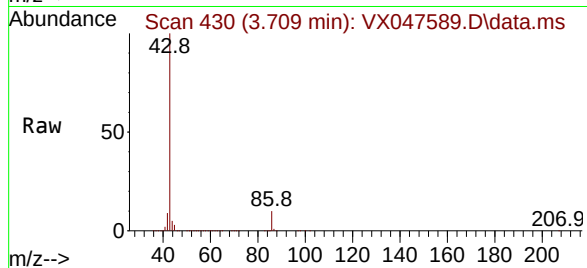
#23
Vinyl Acetate
Concen: 514.916 ug/l
RT: 3.709 min Scan# 411
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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

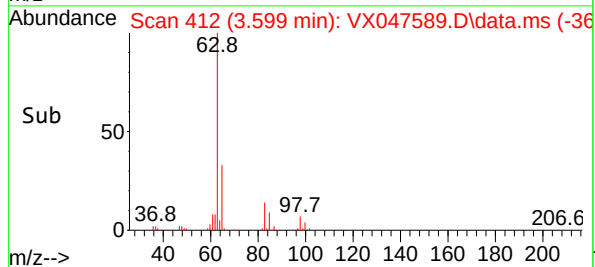
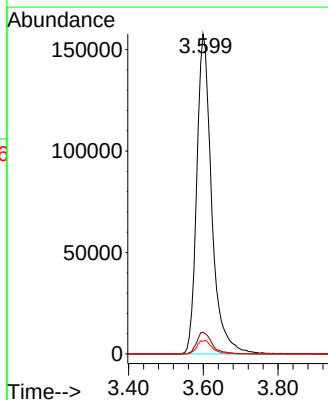
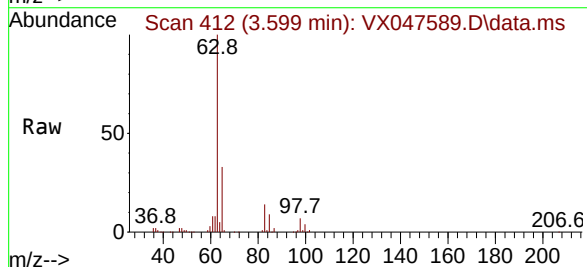
Manual Integrations
APPROVED

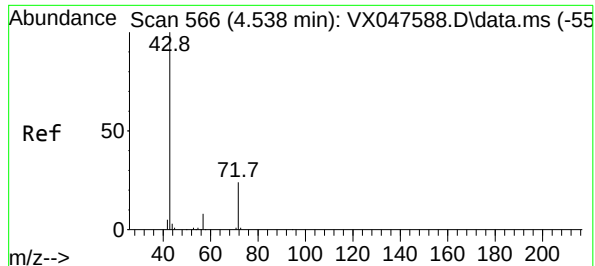
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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# 5

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: 70082

Ion Ratio Lower Upper

43 100

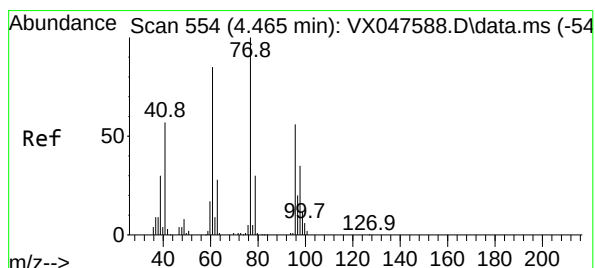
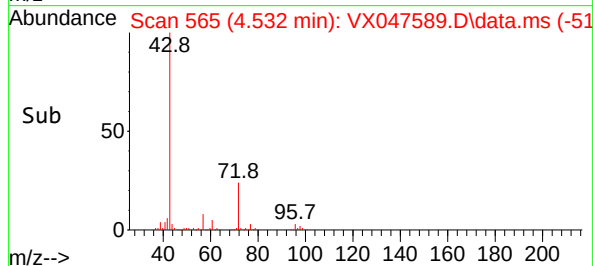
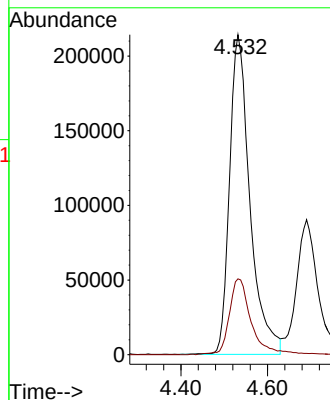
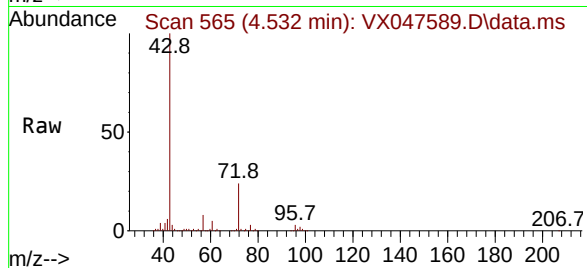
72 23.8 20.1 30.1

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

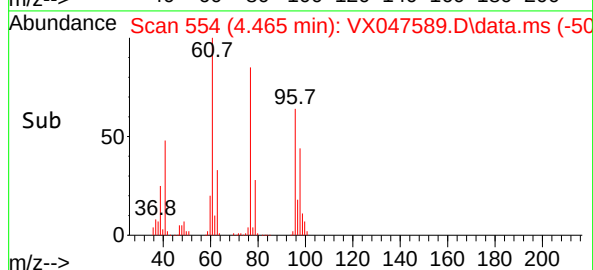
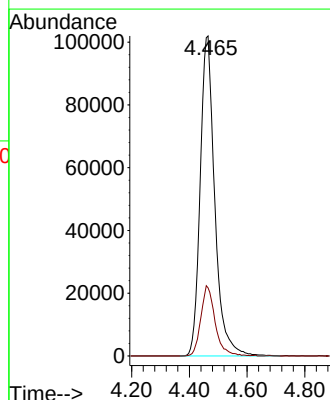
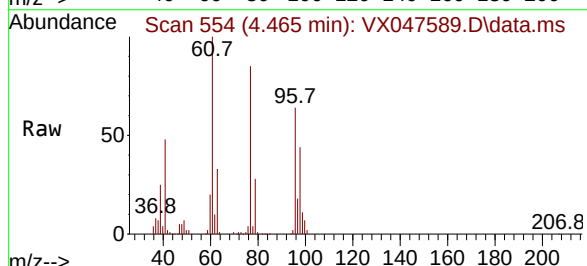
Acq: 16 Sep 2025 11:40

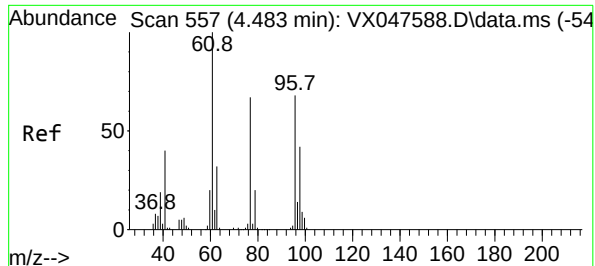
Tgt Ion: 77 Resp: 357292

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 :

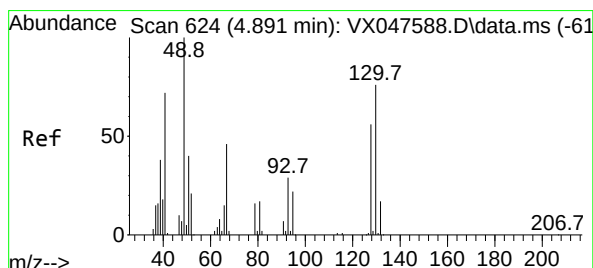
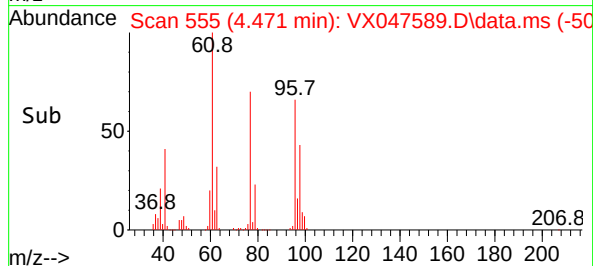
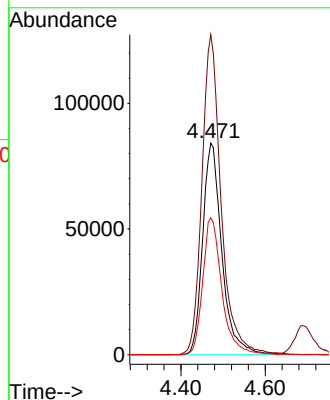
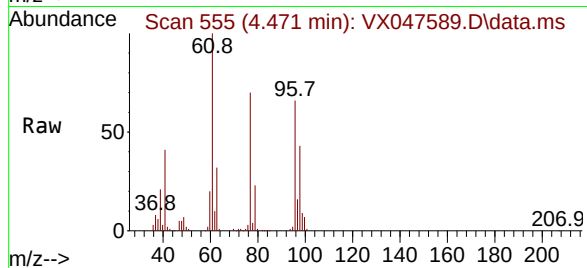
VSTDICC100

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

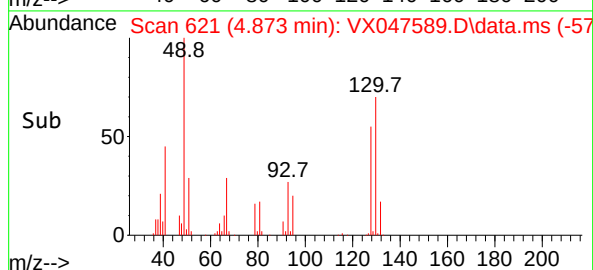
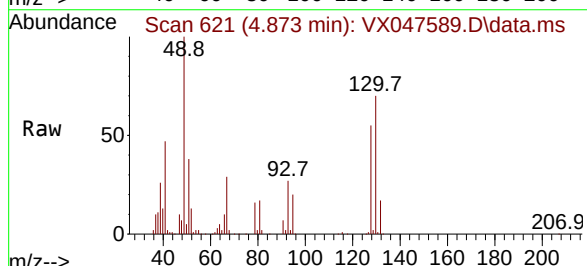
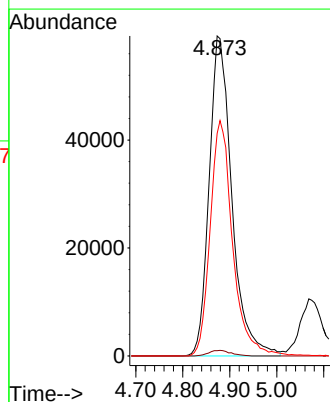
RT: 4.873 min Scan# 621

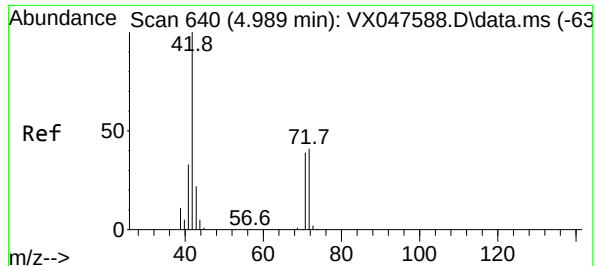
Delta R.T. -0.018 min

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

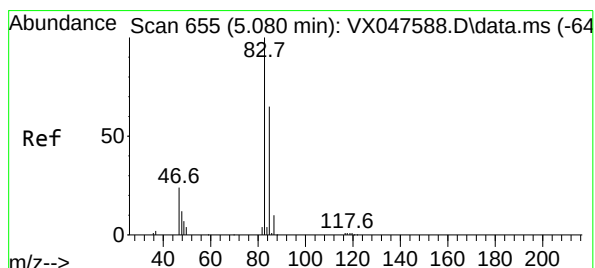
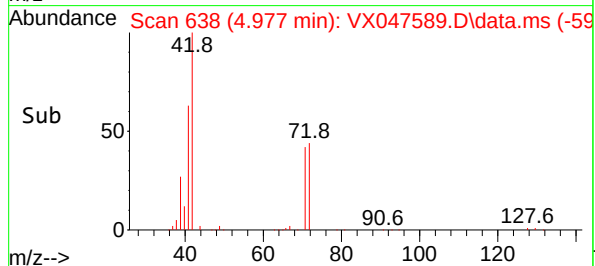
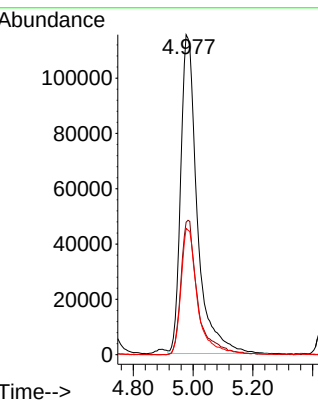
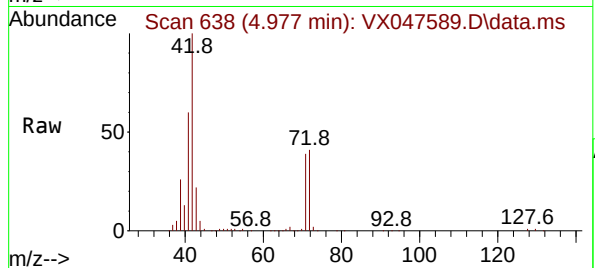
71 39.5 31.9 47.9

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

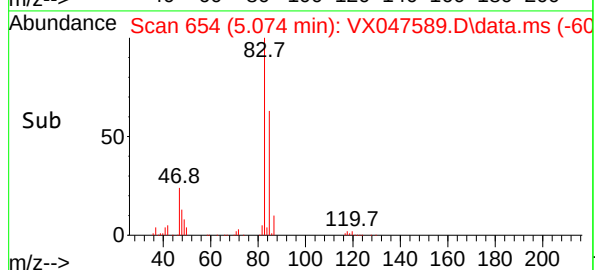
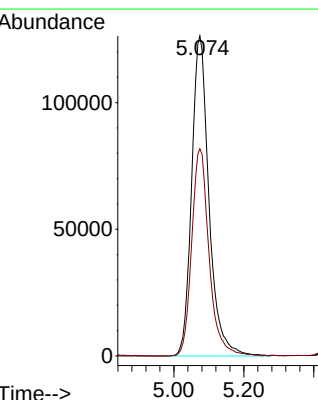
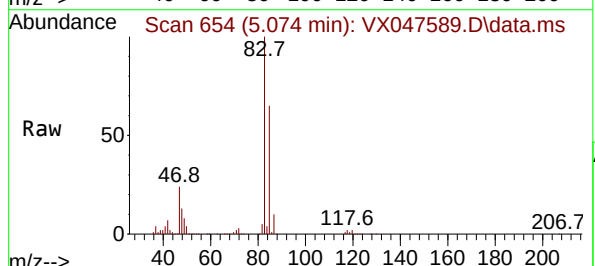
Acq: 16 Sep 2025 11:40

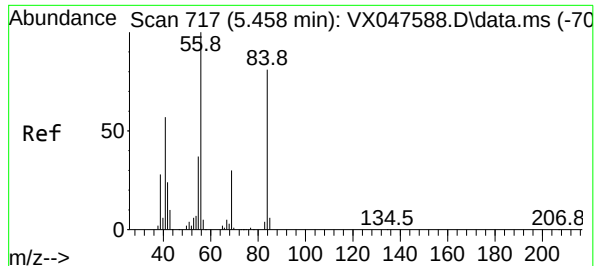
Tgt Ion: 83 Resp: 433937

Ion Ratio Lower Upper

83 100

85 64.8 51.8 77.6





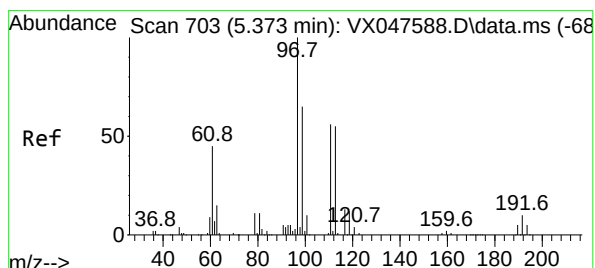
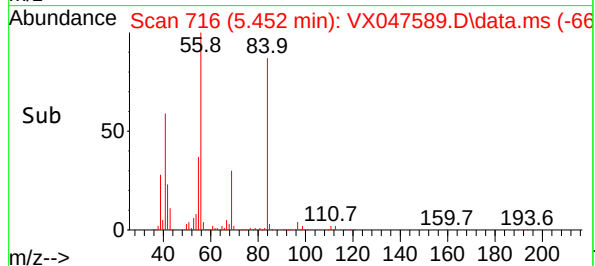
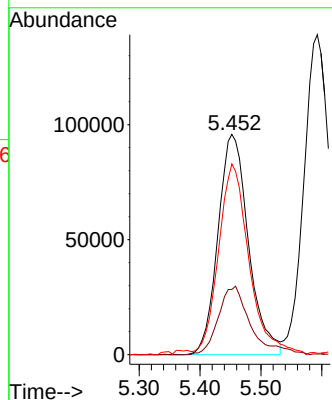
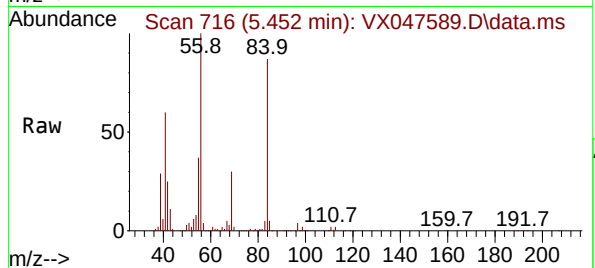
#31
Cyclohexane
Concen: 93.523 ug/l
RT: 5.452 min Scan# 716
Delta R.T. -0.006 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

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

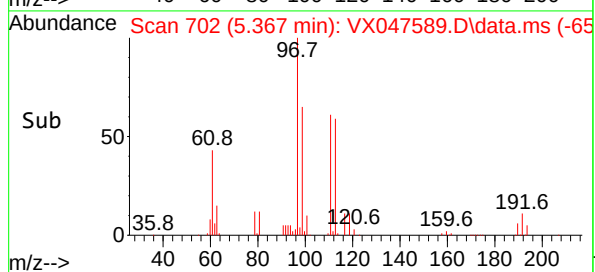
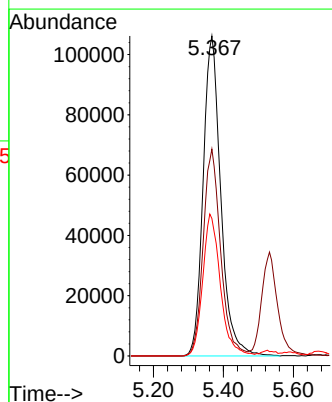
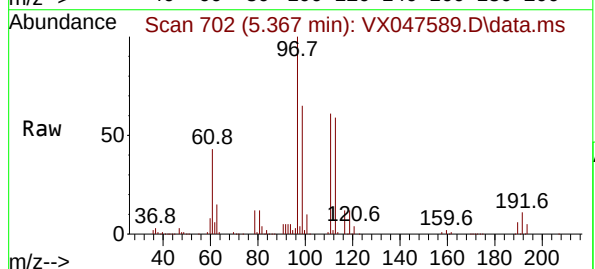
Manual Integrations
APPROVED

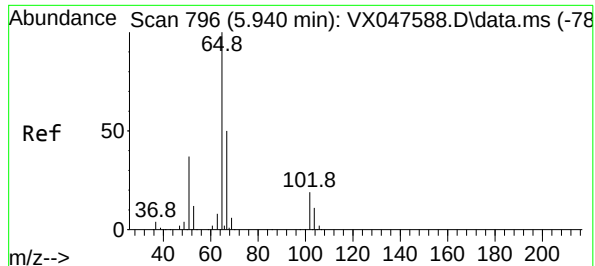
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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# 795

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

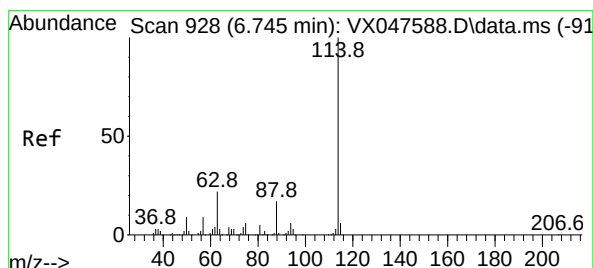
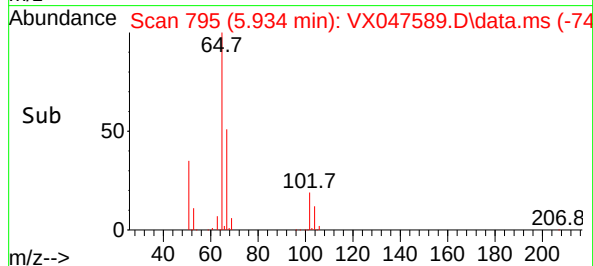
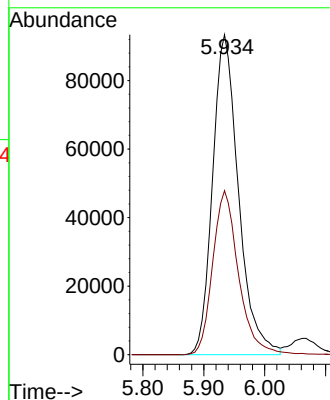
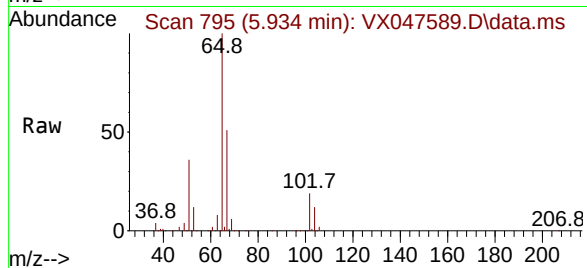
67 51.3 0.0 103.0

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

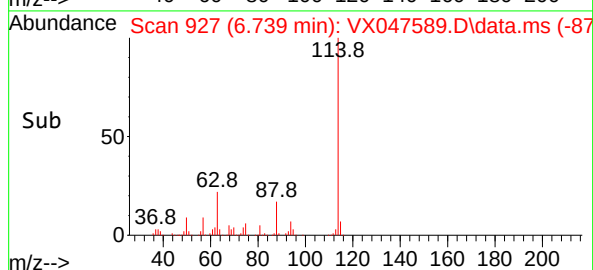
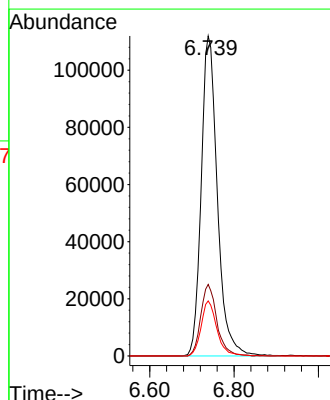
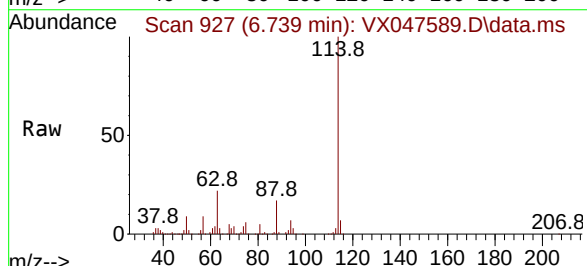
Tgt Ion:114 Resp: 298913

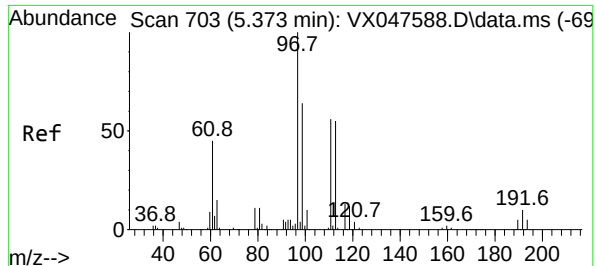
Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.0

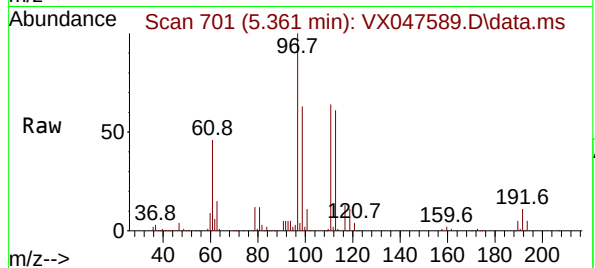
88 17.2 0.0 34.2





#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

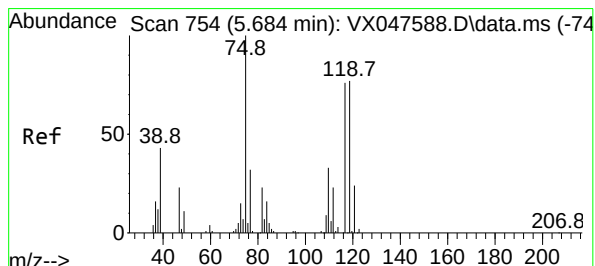
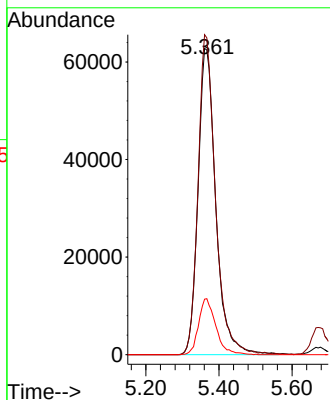
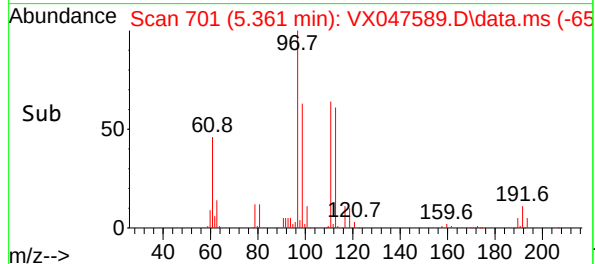
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



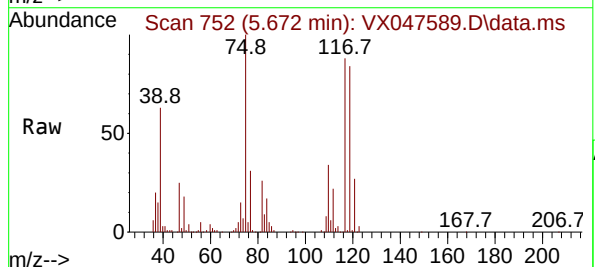
Tgt Ion:113 Resp: 212419
Ion Ratio Lower Upper
113 100
111 101.8 80.9 121.3
192 17.7 14.2 21.4

Manual Integrations
APPROVED

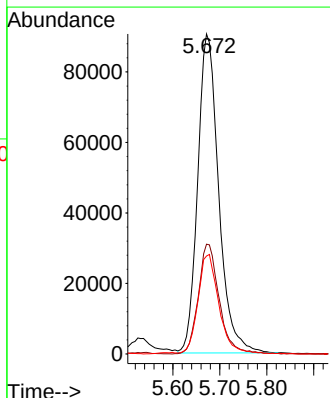
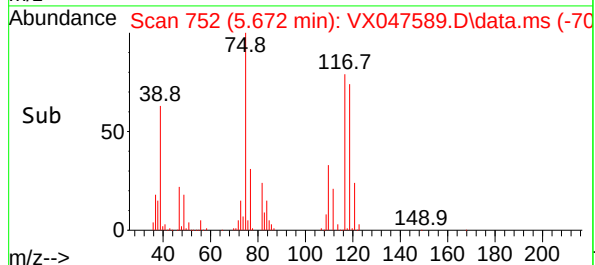
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

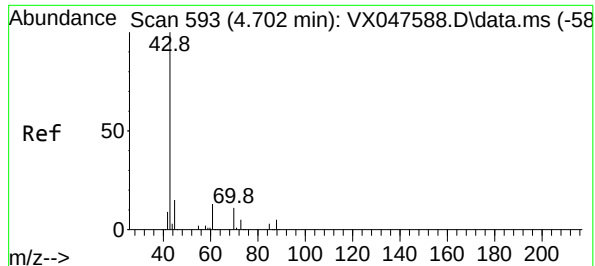


#36
1,1-Dichloropropene
Concen: 96.149 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.012 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40



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

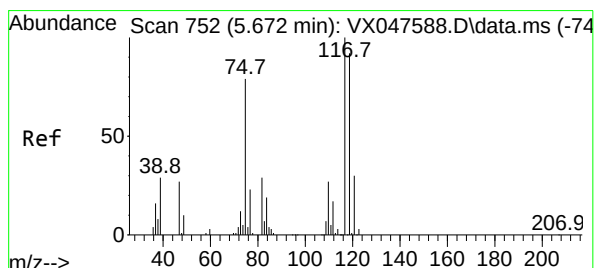
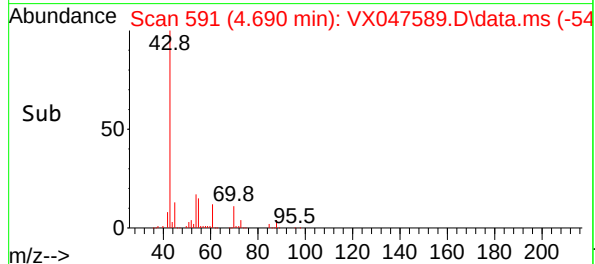
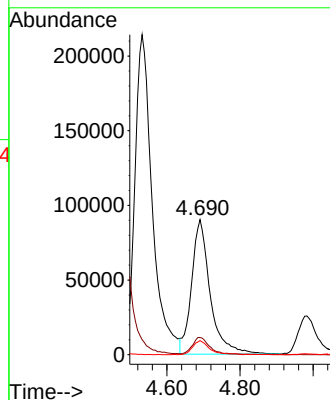
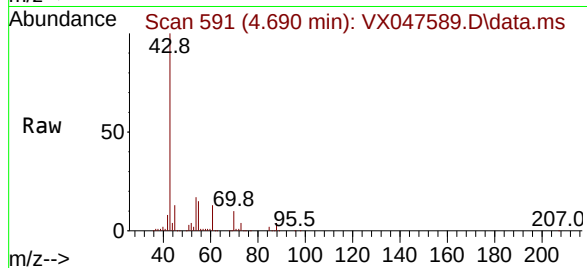
70 9.4 7.9 11.9

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

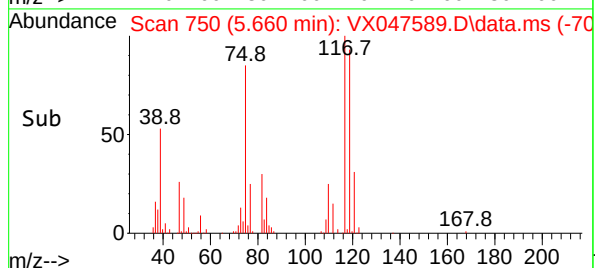
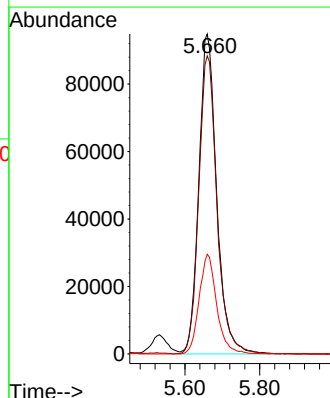
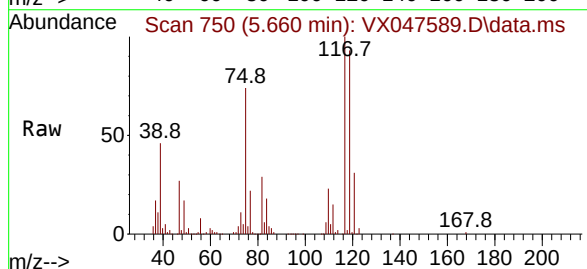
Tgt Ion:117 Resp: 314745

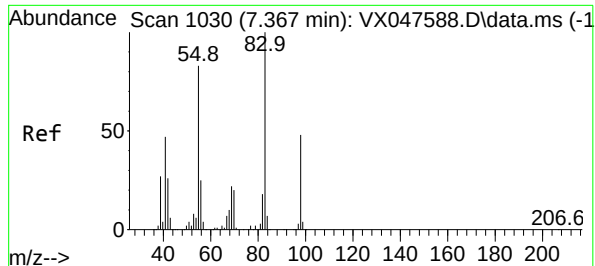
Ion Ratio Lower Upper

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 :

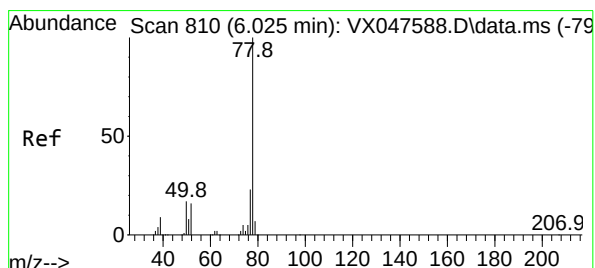
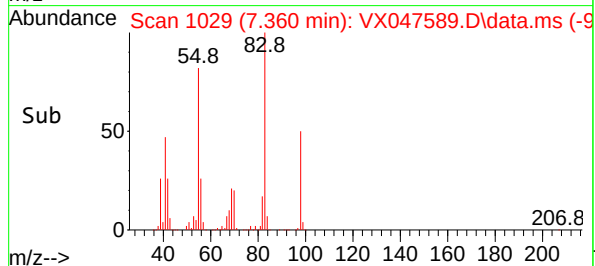
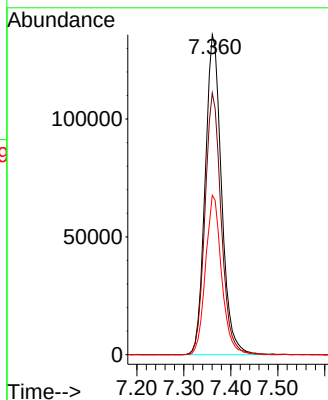
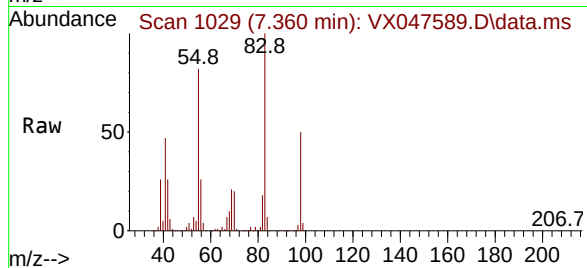
VSTDICC100

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

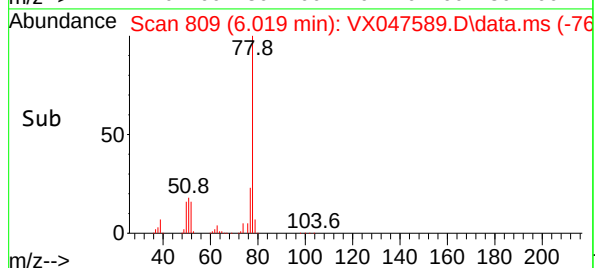
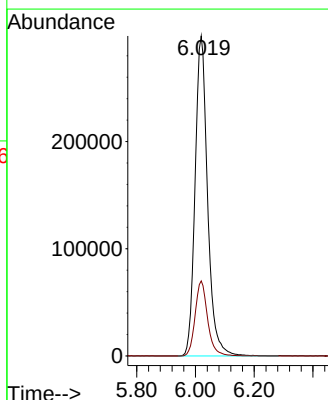
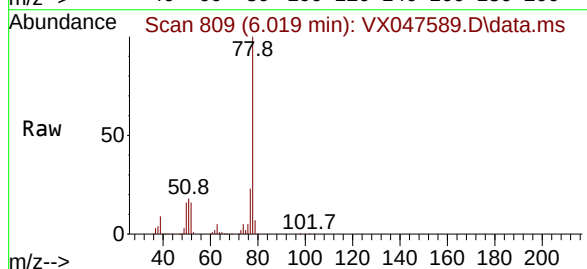
RT: 6.019 min Scan# 809

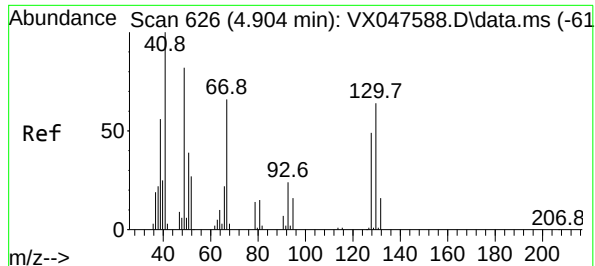
Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

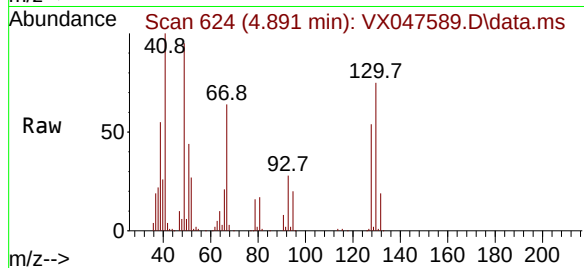
Tgt Ion:	78	Resp:	880885
Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2





#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

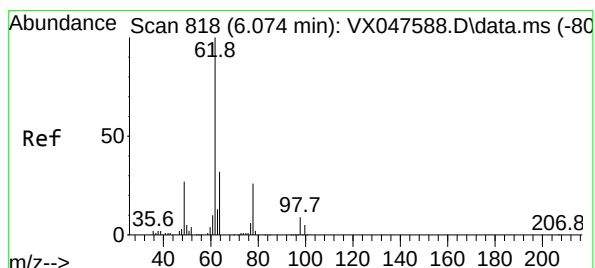
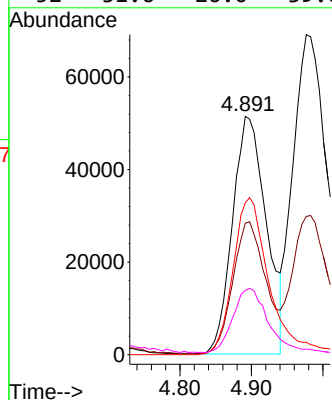
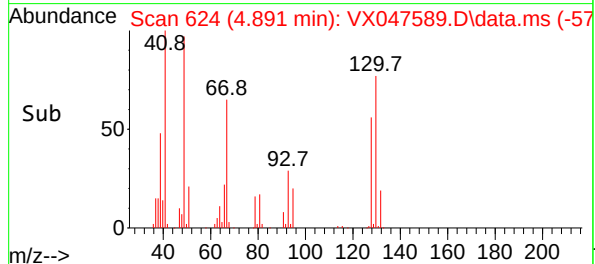
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



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

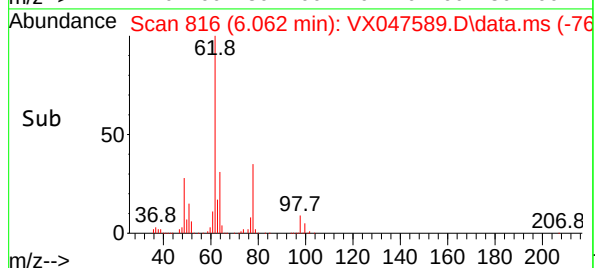
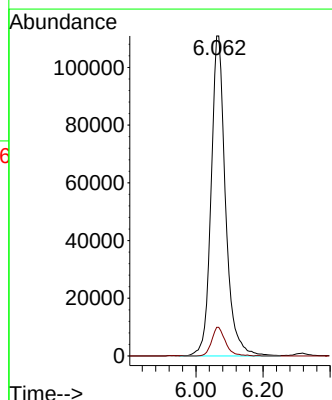
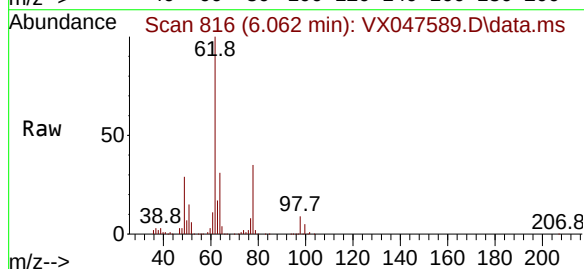
Manual Integrations
APPROVED

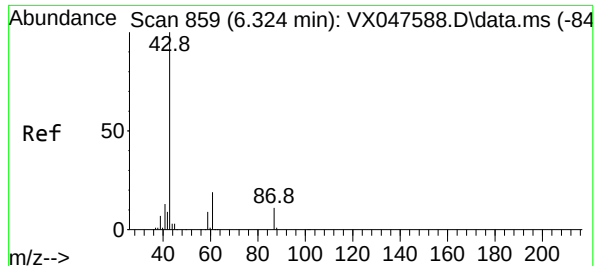
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

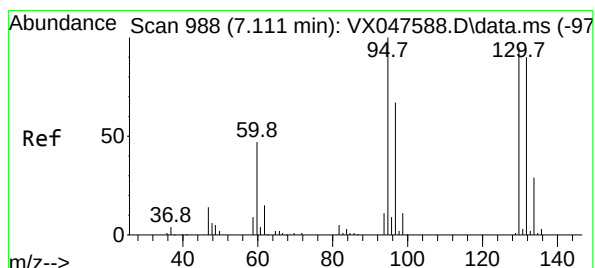
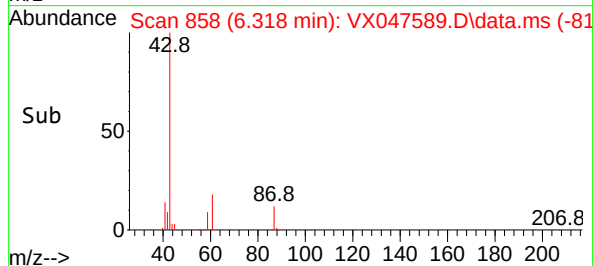
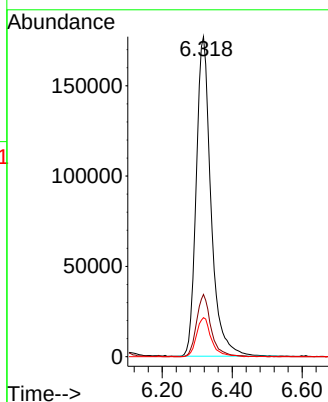
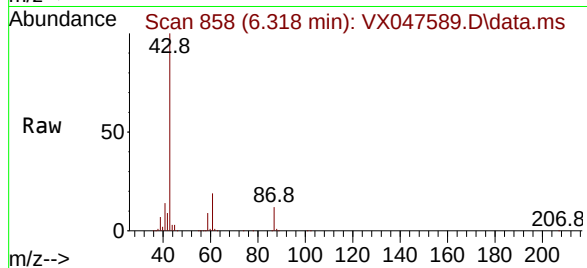
VSTDICC100

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

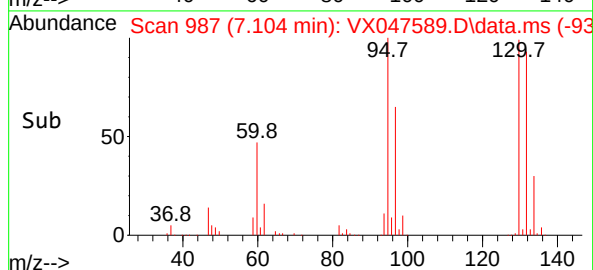
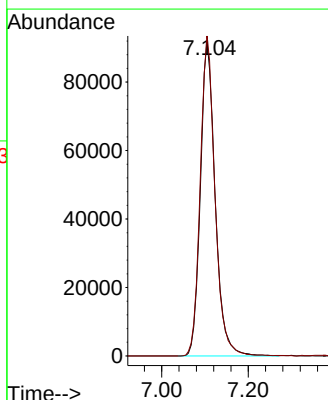
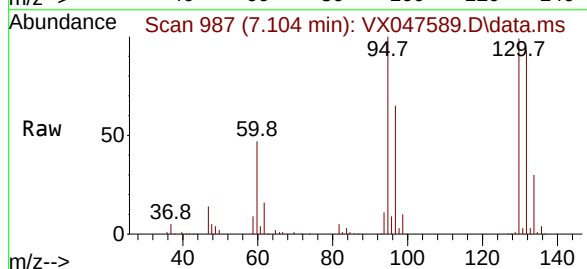
RT: 7.104 min Scan# 987

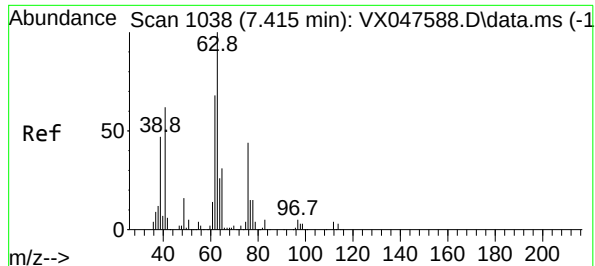
Delta R.T. -0.006 min

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 :

VSTDIC100

Tgt Ion: 63 Resp: 228150

Ion Ratio Lower Upper

63 100

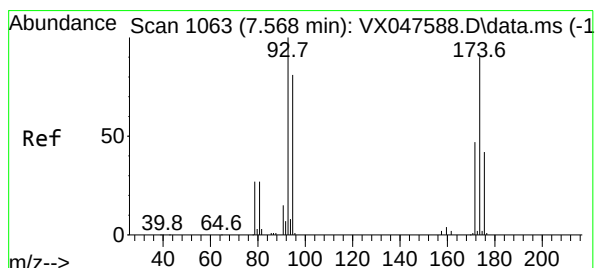
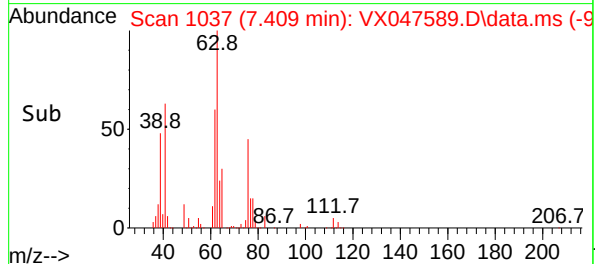
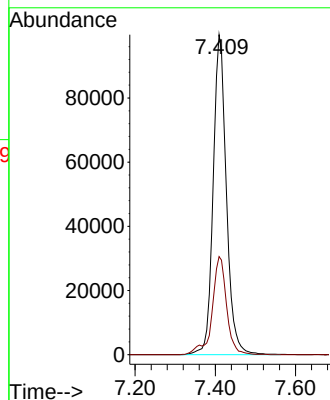
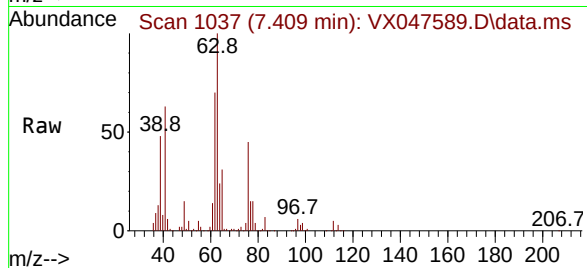
65 30.7 24.7 37.1

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

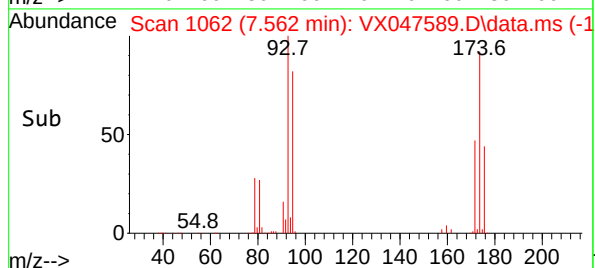
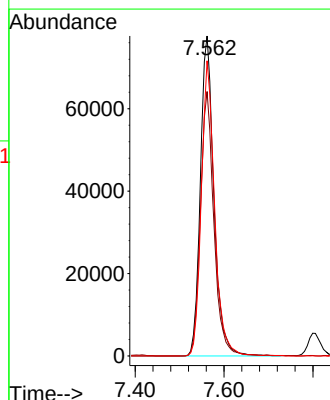
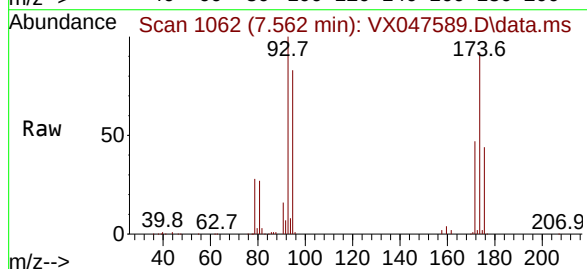
Tgt Ion: 93 Resp: 164987

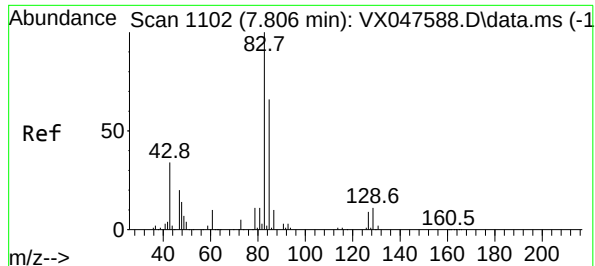
Ion Ratio Lower Upper

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 :

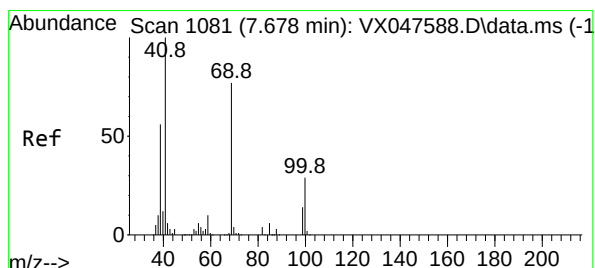
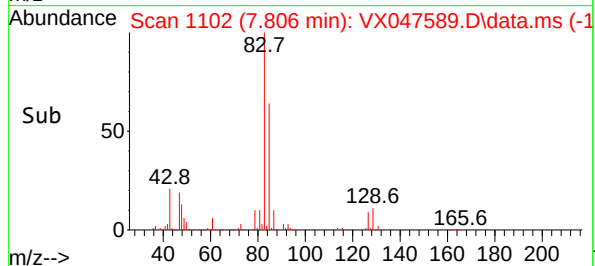
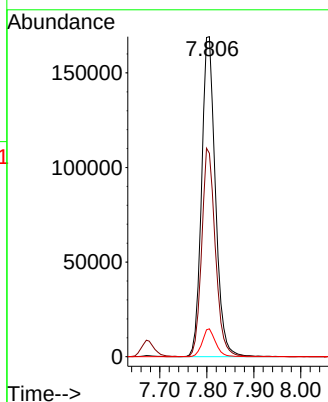
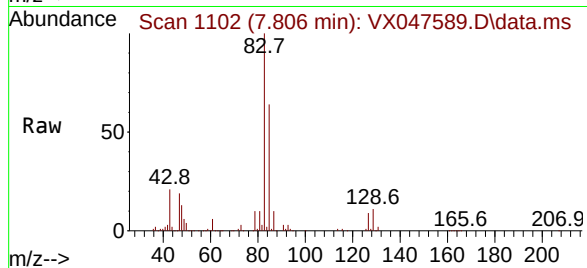
VSTDICC100

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

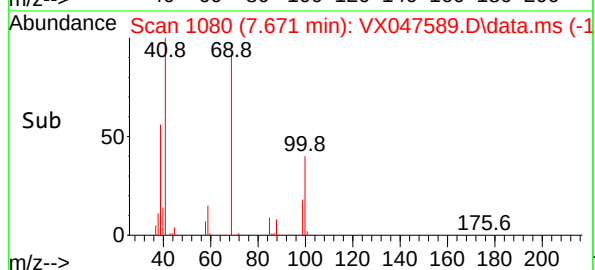
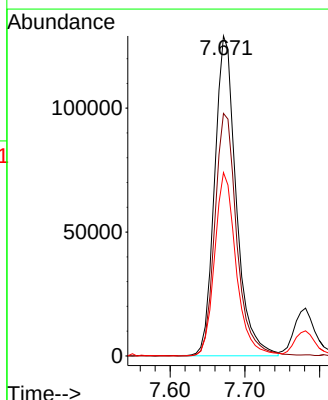
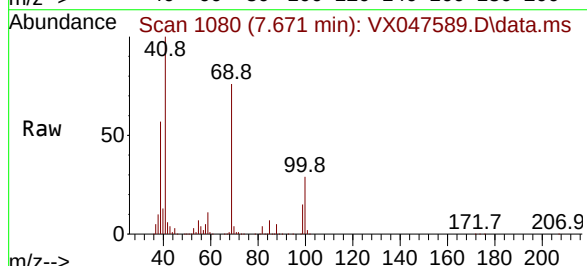
RT: 7.671 min Scan# 1080

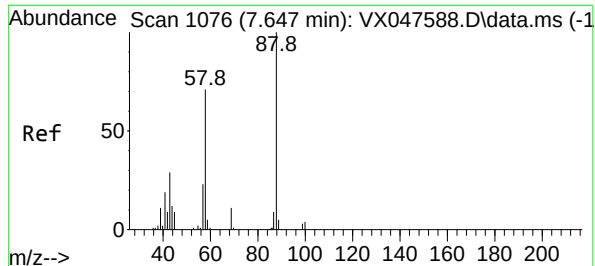
Delta R.T. -0.006 min

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 :

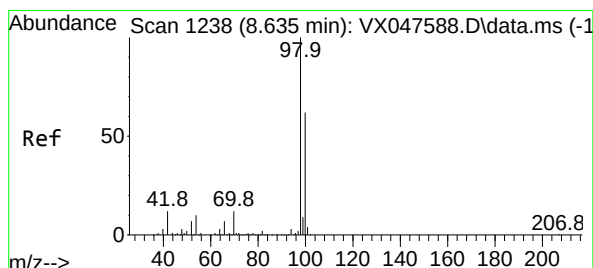
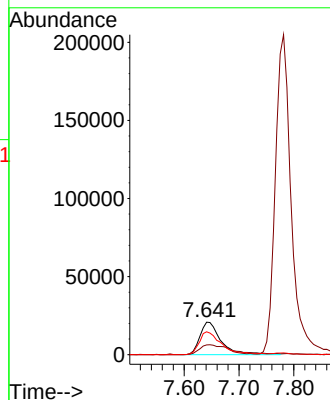
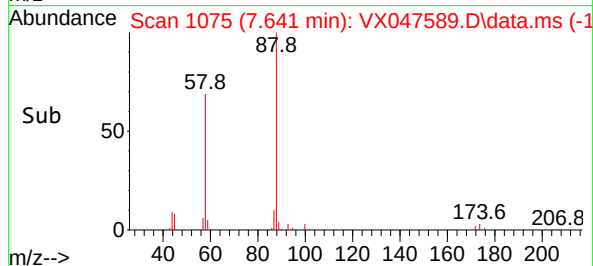
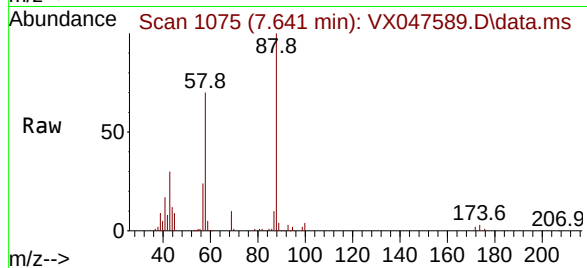
VSTDICC100

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

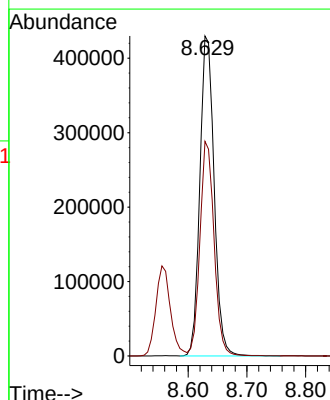
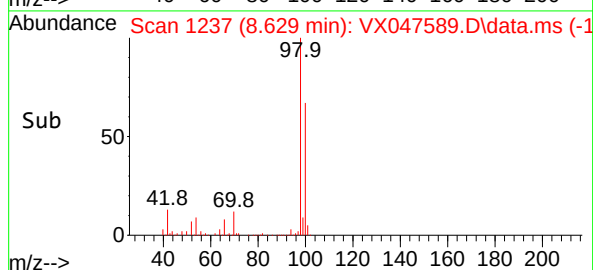
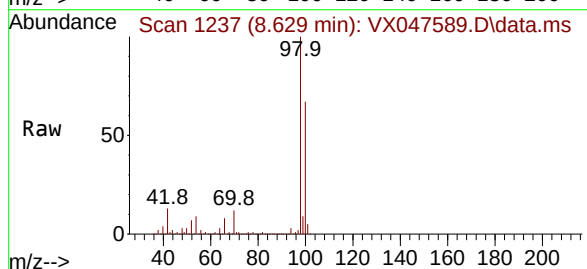
RT: 8.629 min Scan# 1237

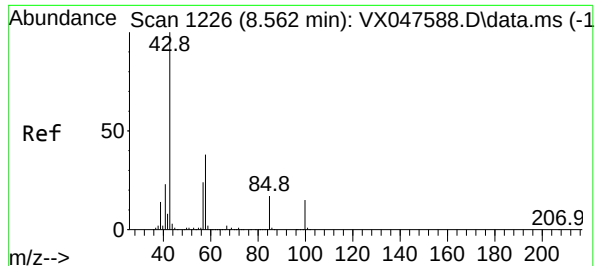
Delta R.T. -0.006 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

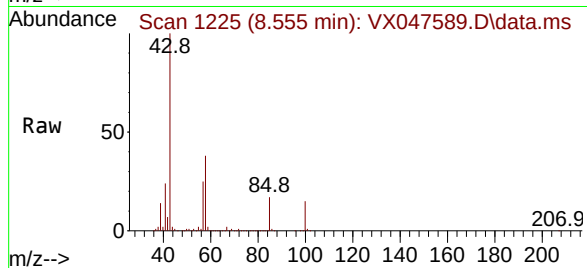
Tgt Ion:	98	Resp:	724078
Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.0	79.4





#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

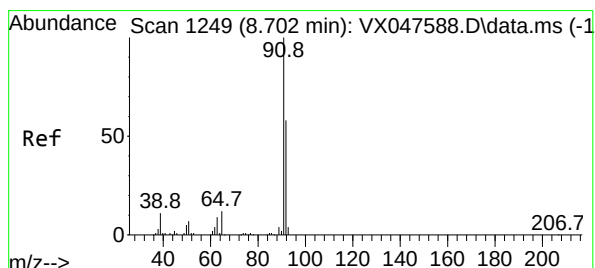
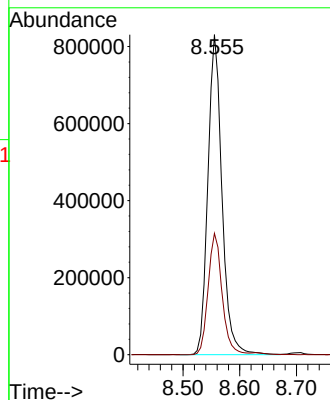
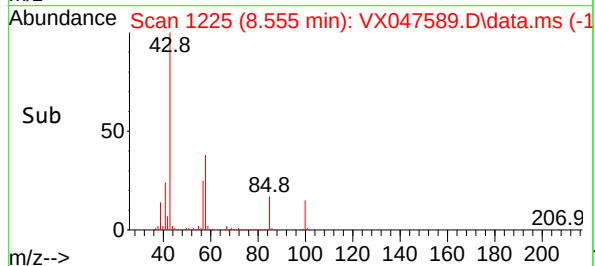
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



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

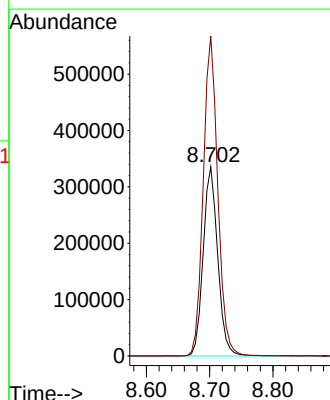
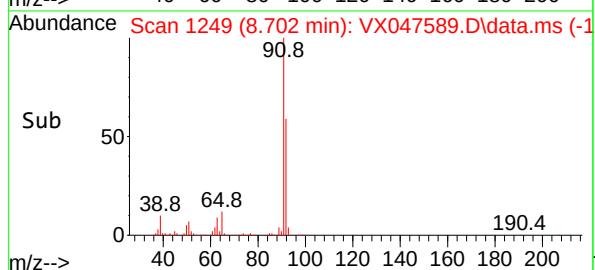
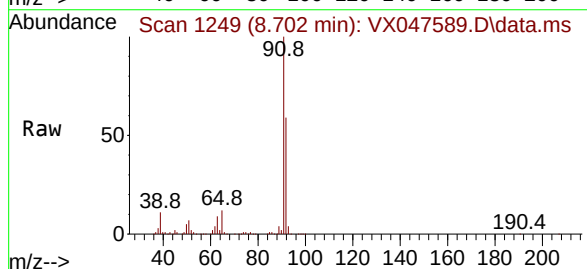
Manual Integrations
APPROVED

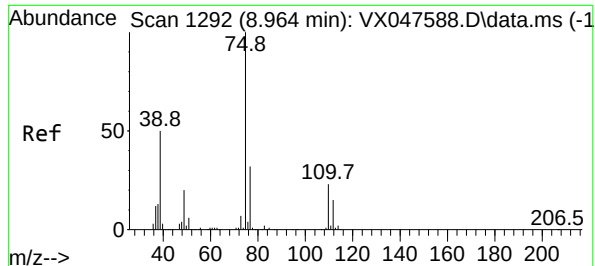
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

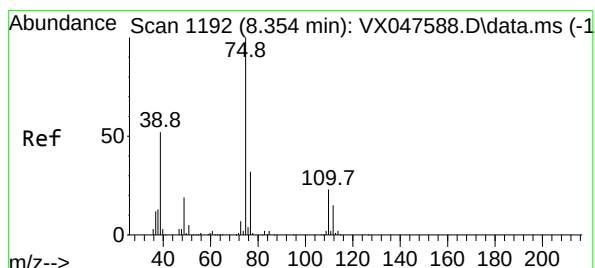
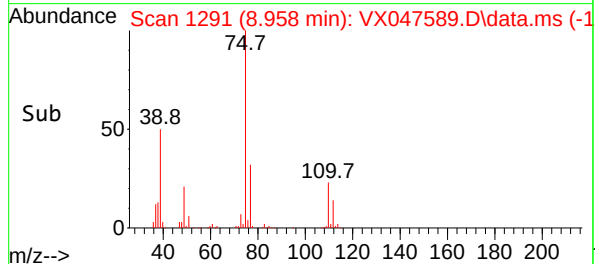
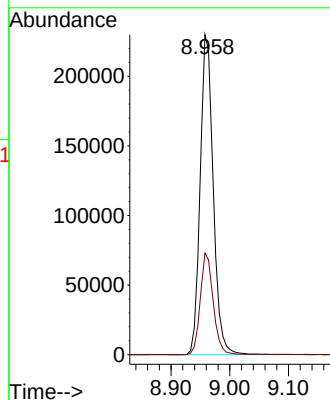
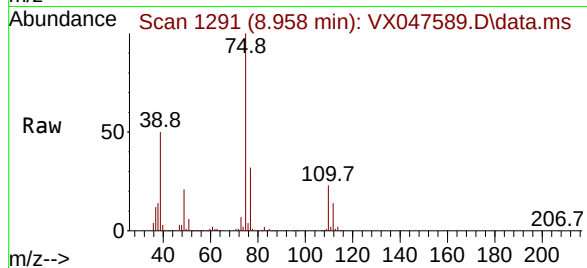
77 31.7 25.4 38.2

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

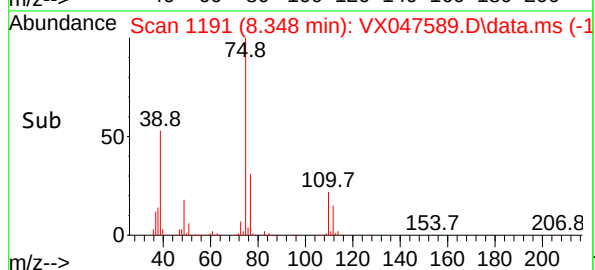
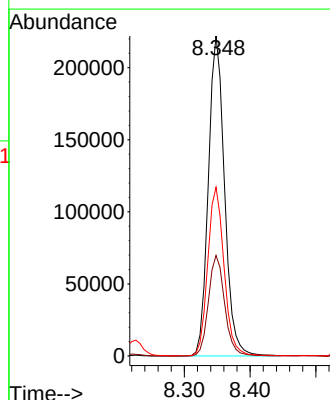
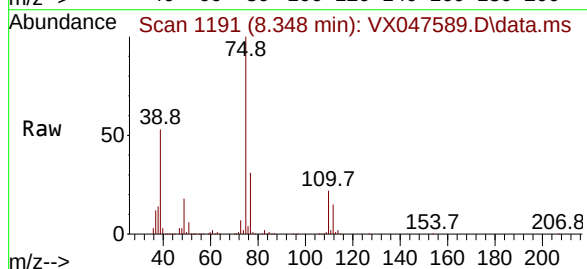
Tgt Ion: 75 Resp: 380577

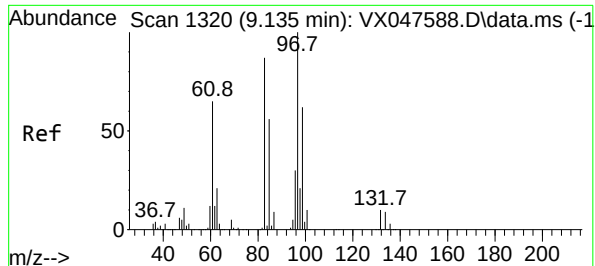
Ion Ratio Lower Upper

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 :

VSTDIC100

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

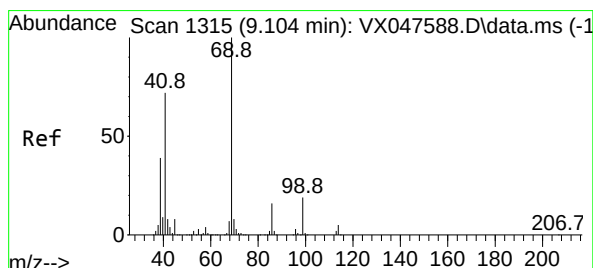
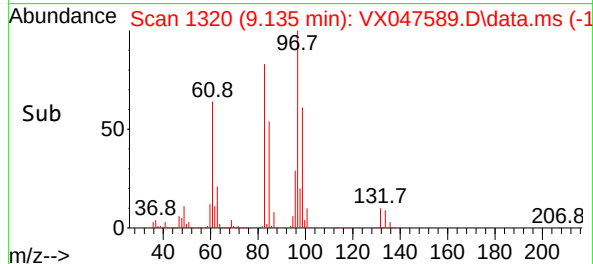
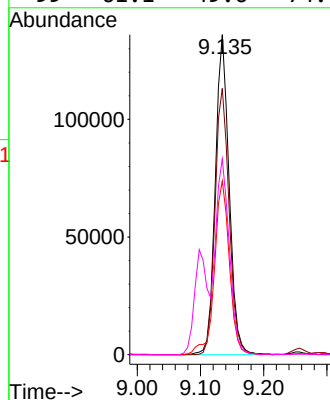
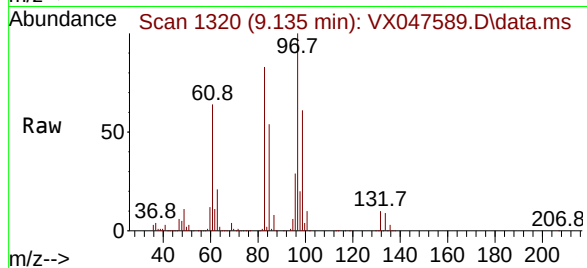
99 61.1 49.6 74.4

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

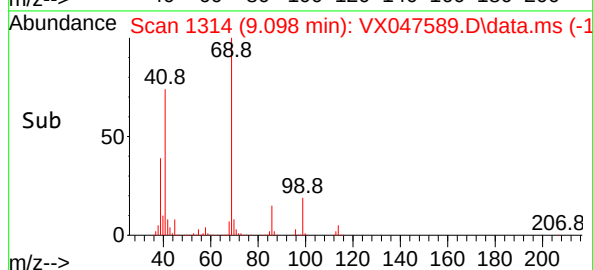
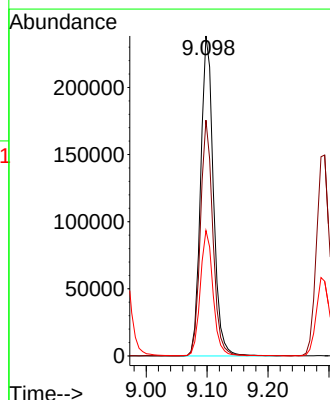
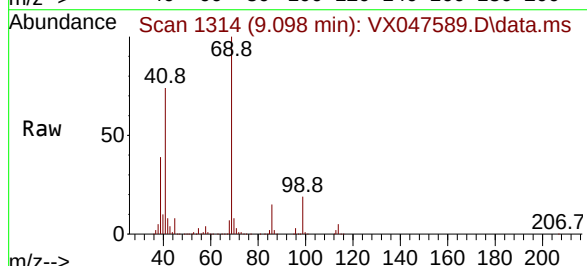
Tgt Ion: 69 Resp: 346659

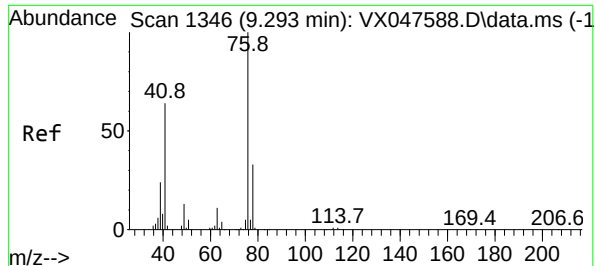
Ion Ratio Lower Upper

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# 11

Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 36284

Ion Ratio Lower Upper

76 100

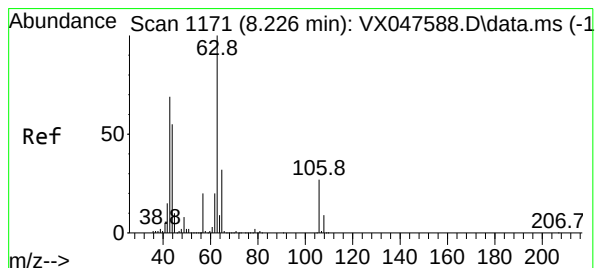
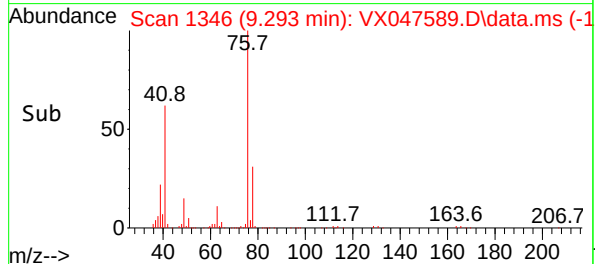
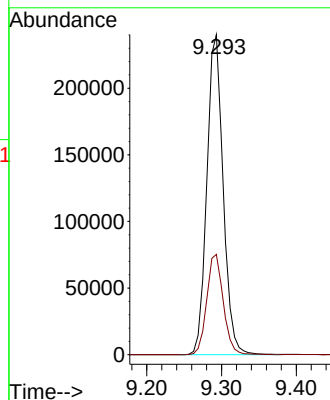
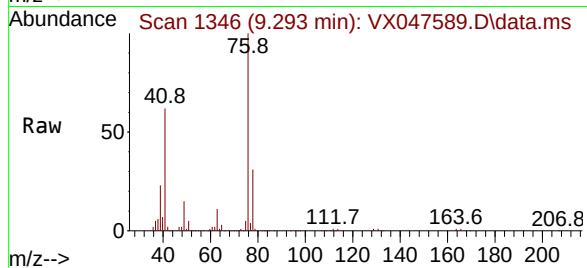
78 31.8 26.2 39.4

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

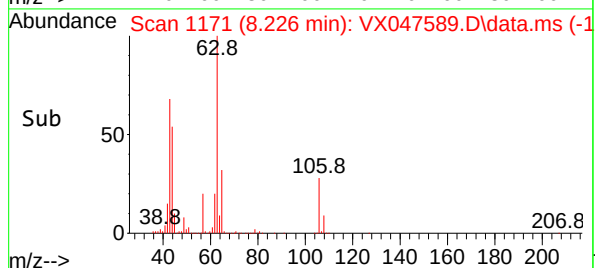
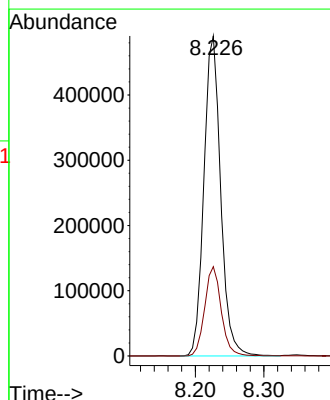
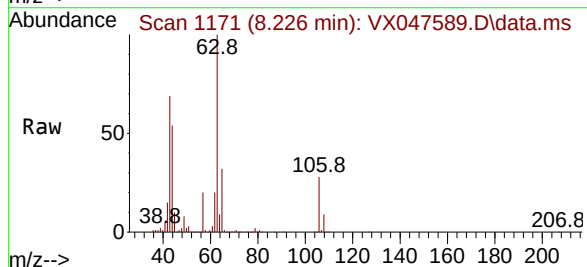
Acq: 16 Sep 2025 11:40

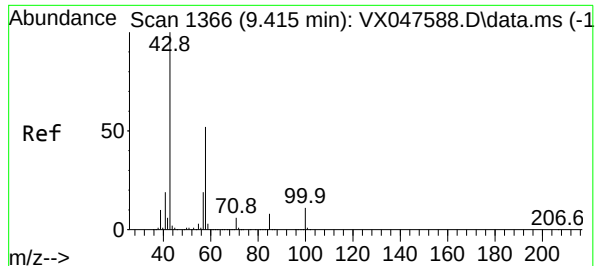
Tgt Ion: 63 Resp: 836362

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 :

VSTDIC100

Tgt Ion: 43 Resp: 996274

Ion Ratio Lower Upper

43 100

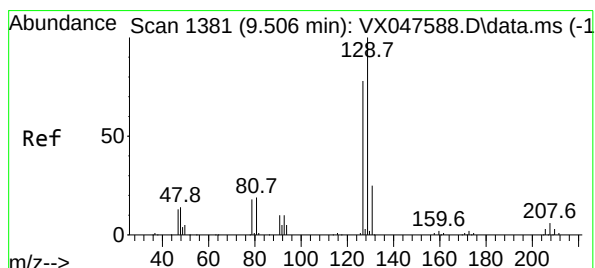
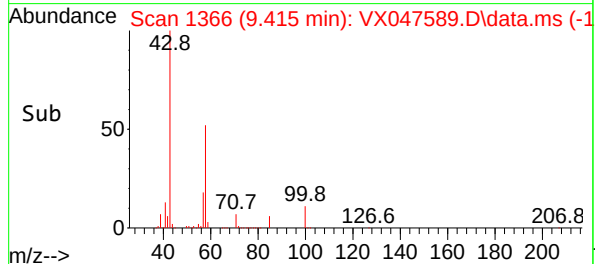
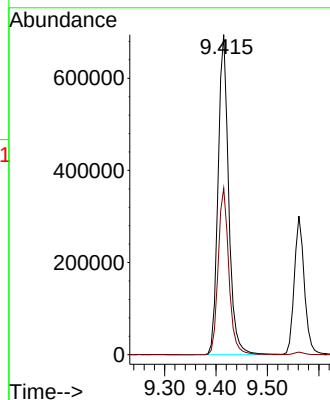
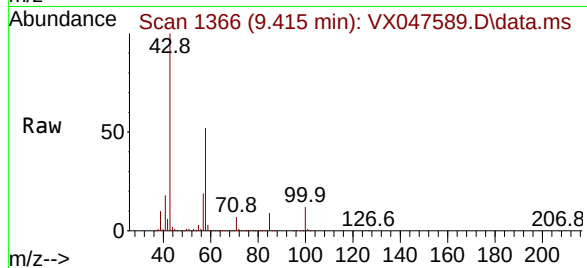
58 52.4 26.1 78.2

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

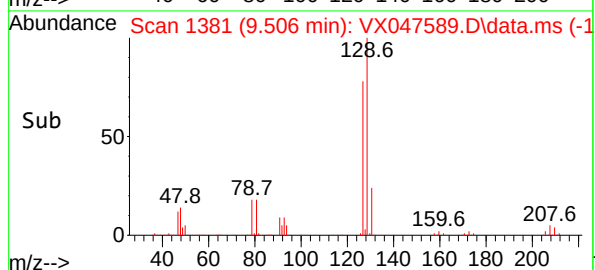
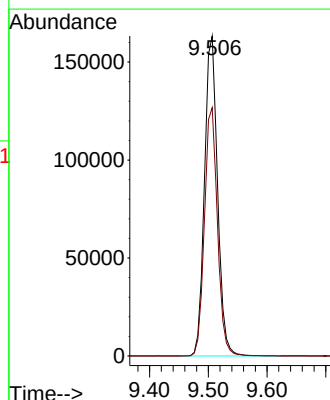
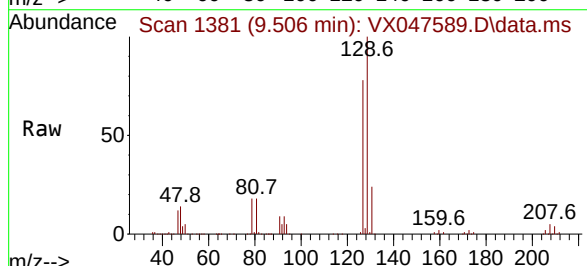
Acq: 16 Sep 2025 11:40

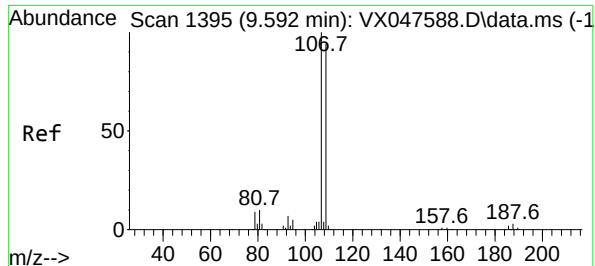
Tgt Ion:129 Resp: 251394

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

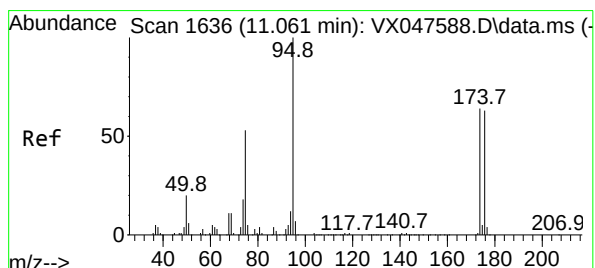
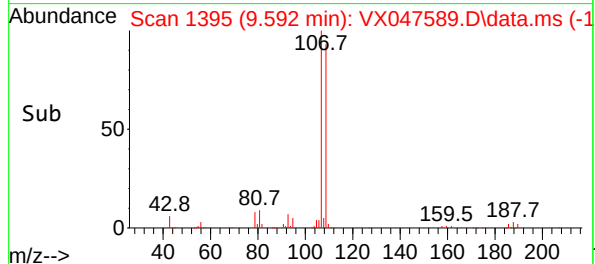
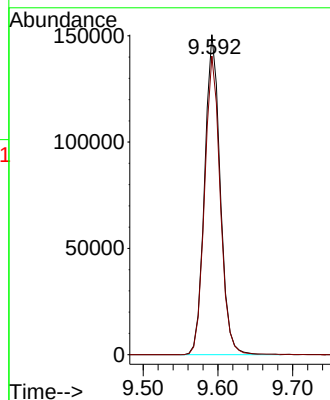
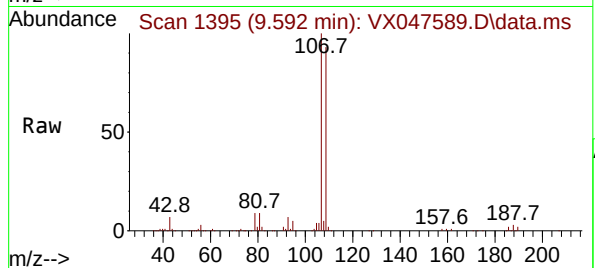
109 93.8 75.3 112.9

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

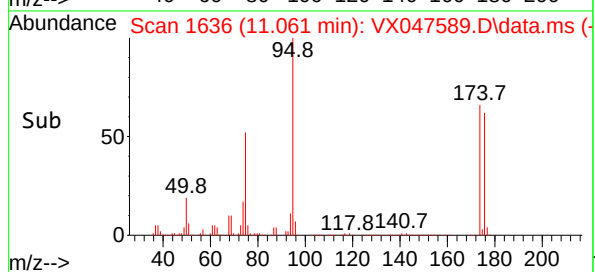
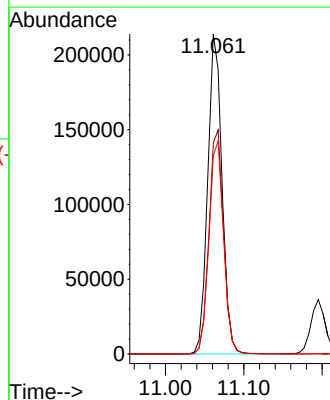
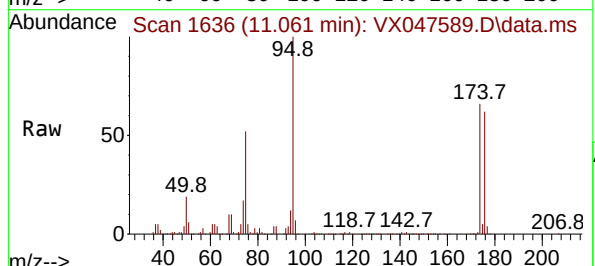
Tgt Ion: 95 Resp: 270289

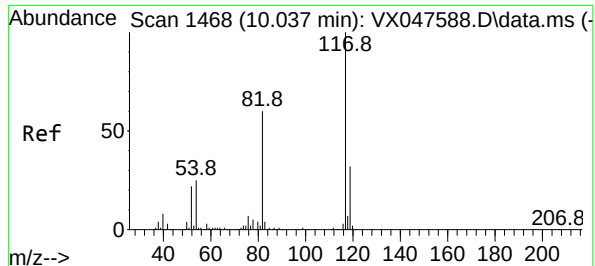
Ion Ratio Lower Upper

95 100

174 71.7 0.0 141.6

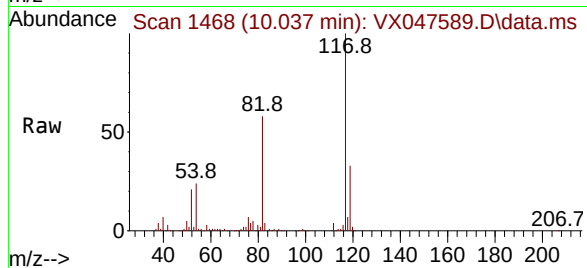
176 68.0 0.0 138.4





#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

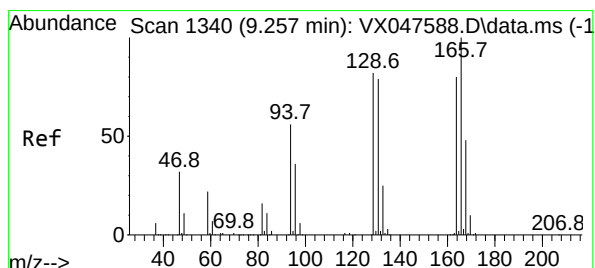
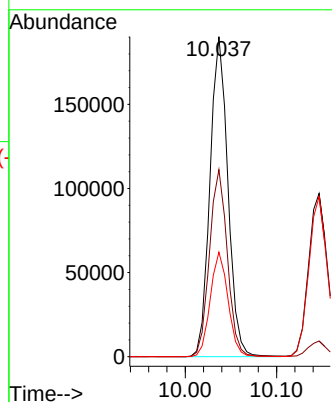
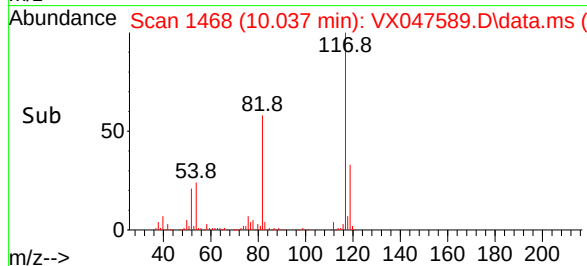
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



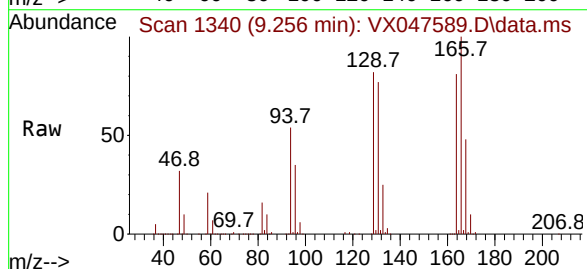
Tgt Ion:117 Resp: 258399
Ion Ratio Lower Upper
117 100
82 58.4 47.8 71.6
119 32.7 25.2 37.8

Manual Integrations
APPROVED

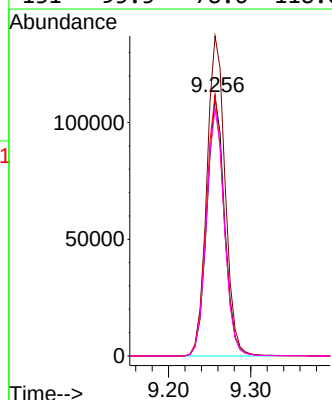
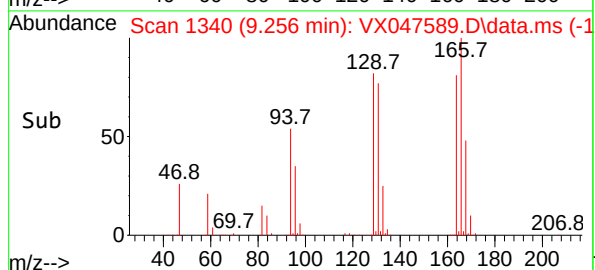
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

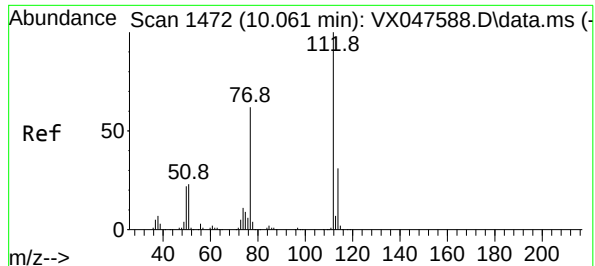


#64
Tetrachloroethene
Concen: 98.284 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40



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 :

VSTDIC100

Tgt Ion:112 Resp: 58851

Ion Ratio Lower Upper

112 100

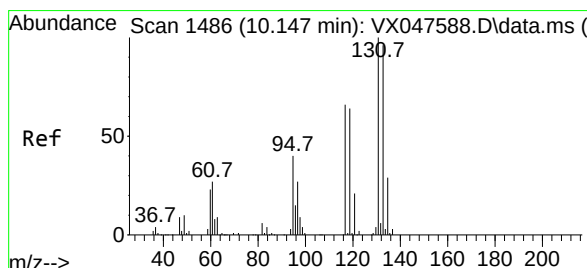
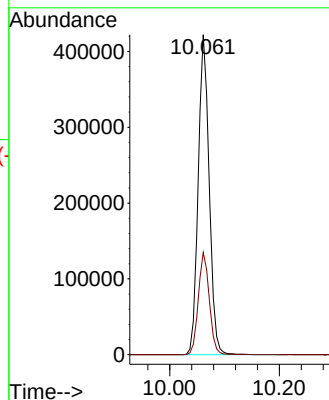
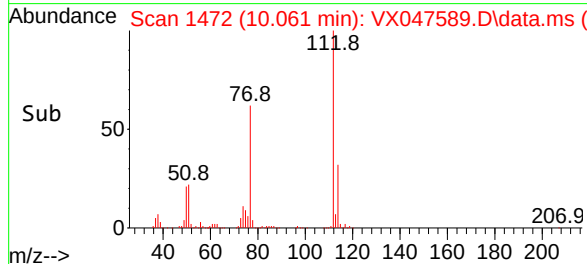
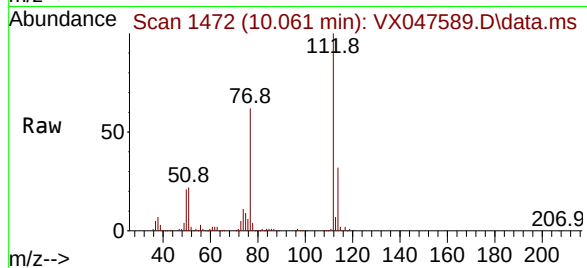
114 32.0 25.1 37.7

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

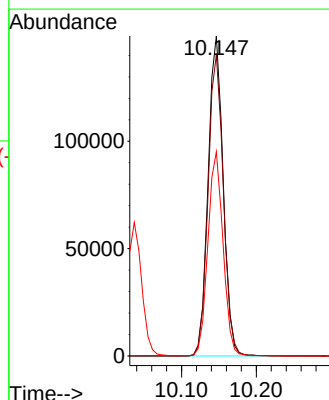
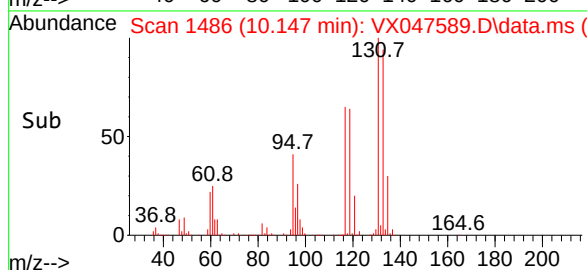
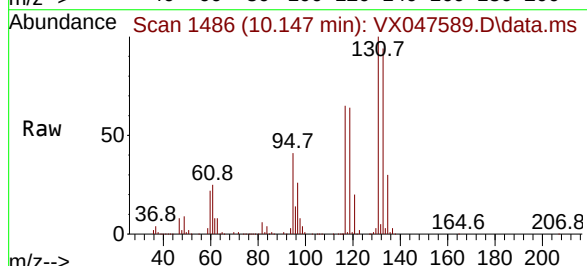
Tgt Ion:131 Resp: 208621

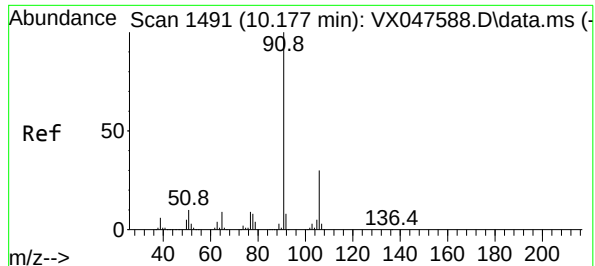
Ion Ratio Lower Upper

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

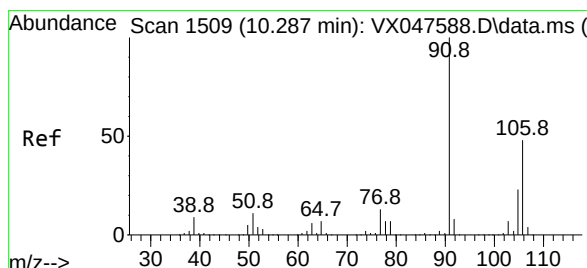
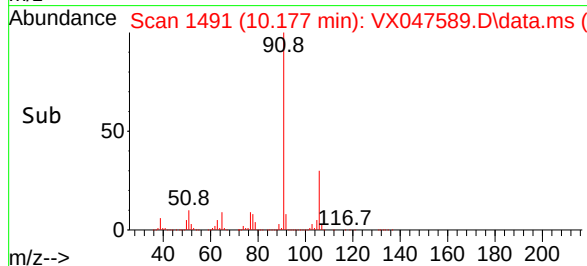
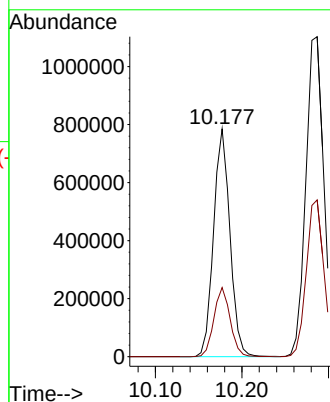
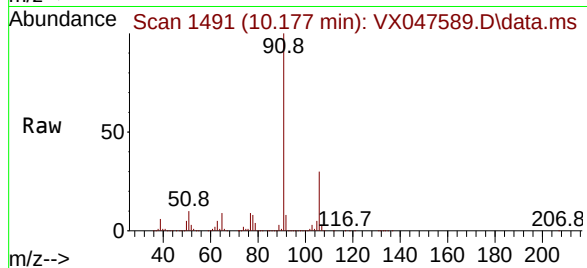
106 30.3 24.3 36.5

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

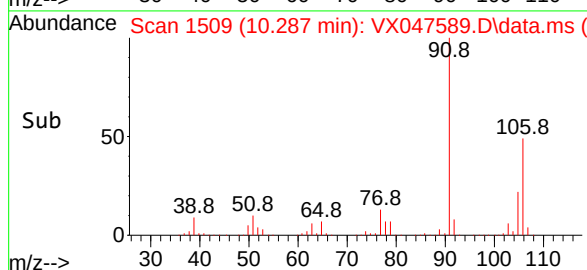
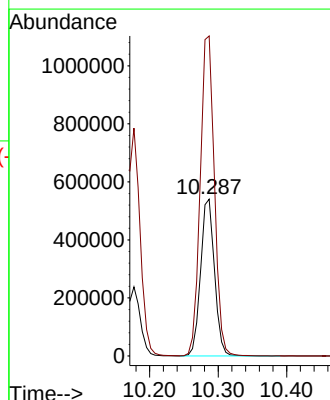
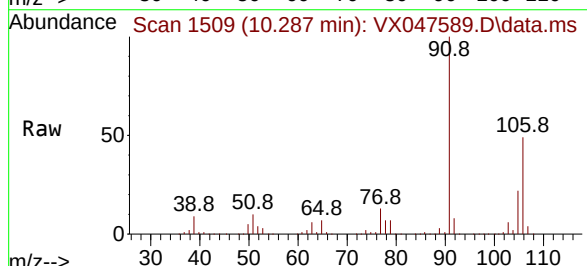
Acq: 16 Sep 2025 11:40

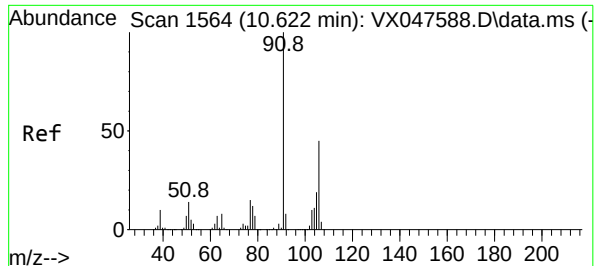
Tgt Ion:106 Resp: 763898

Ion Ratio Lower Upper

106 100

91 208.5 167.8 251.8





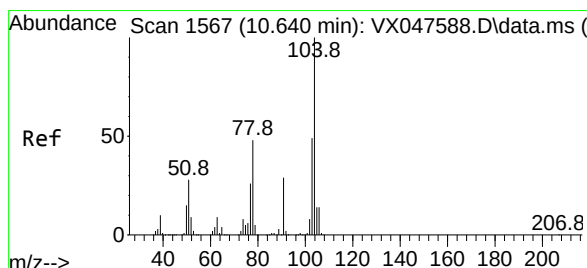
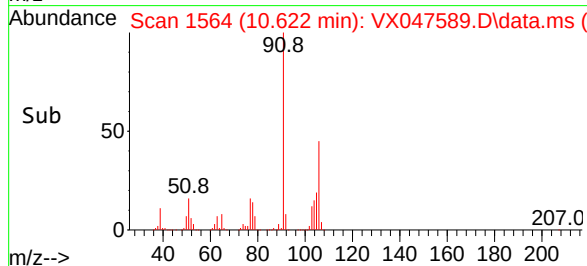
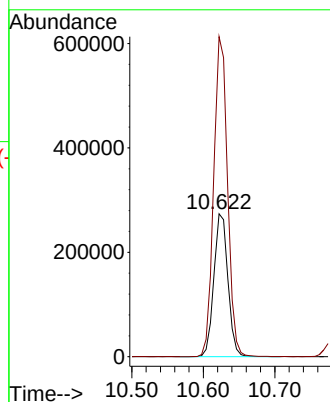
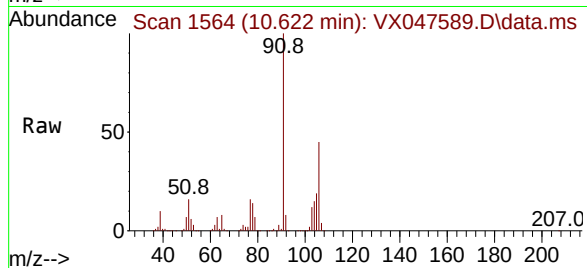
#69
o-Xylene
Concen: 102.186 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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

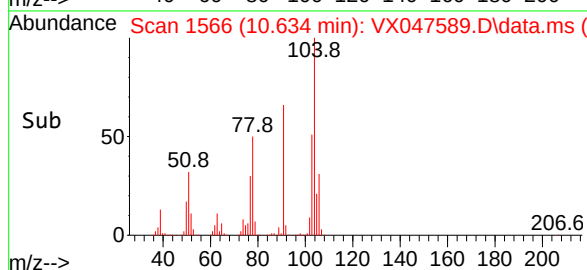
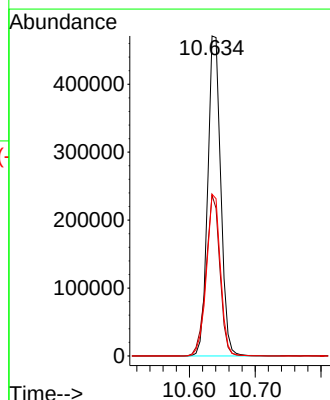
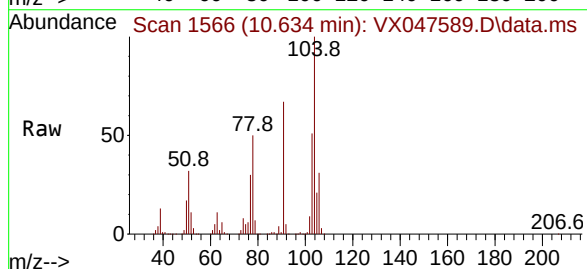
Manual Integrations
APPROVED

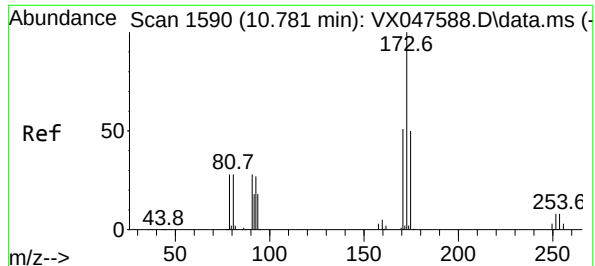
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

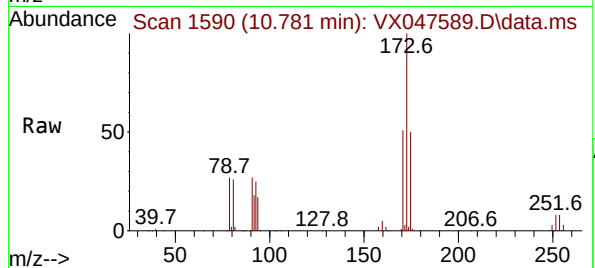
Tgt Ion:104 Resp: 649863
Ion Ratio Lower Upper
104 100
78 53.5 43.1 64.7
103 54.1 43.1 64.7





#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

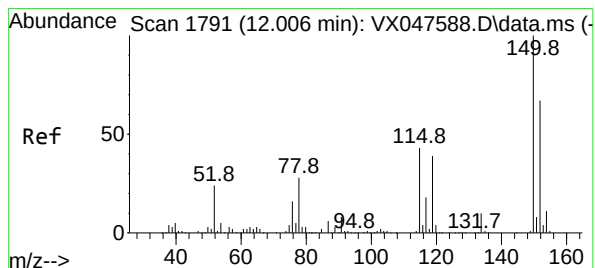
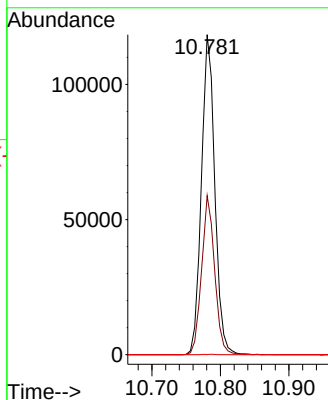
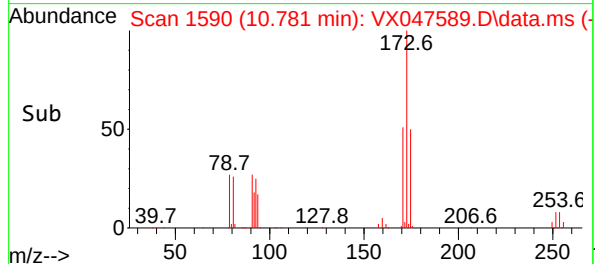
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



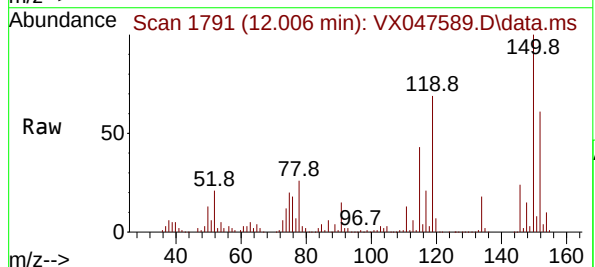
Tgt Ion:173 Resp: 16118
Ion Ratio Lower Upper
173 100
175 48.5 24.9 74.6
254 0.1 0.1 0.1

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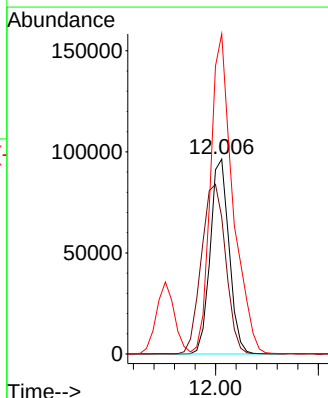
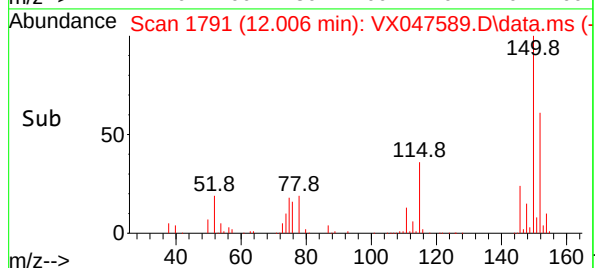
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

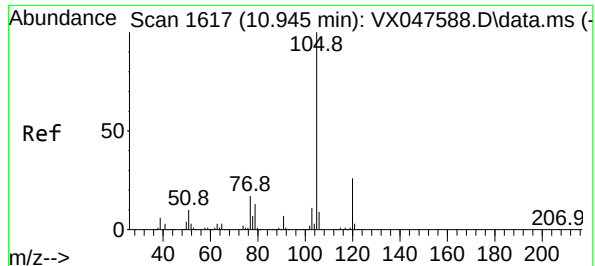


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40



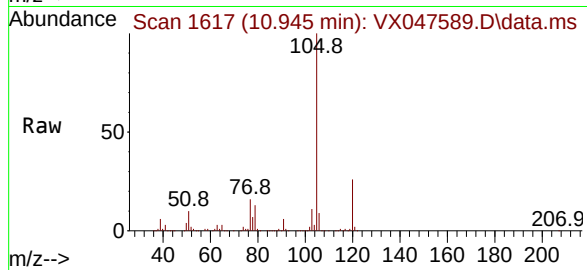
Tgt Ion:152 Resp: 122218
Ion Ratio Lower Upper
152 100
115 112.6 44.9 134.5
150 195.0 0.0 352.0





#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

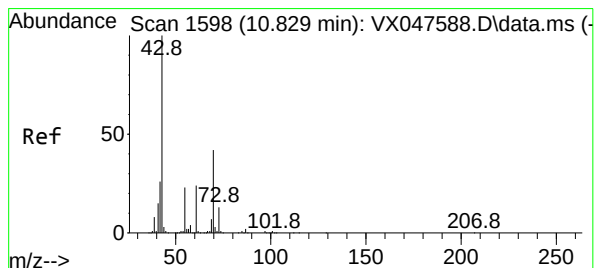
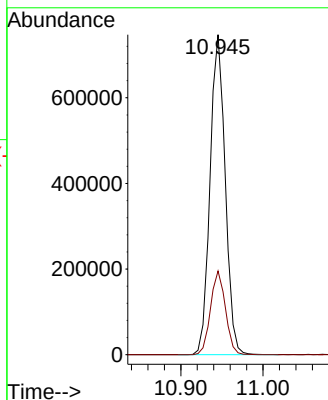
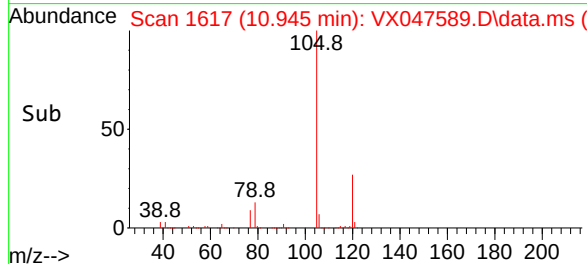
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



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

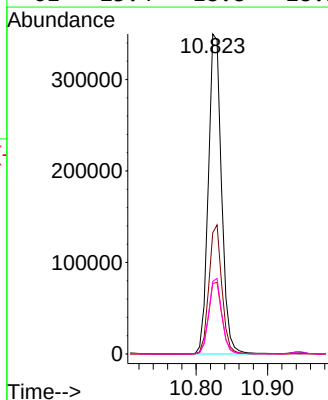
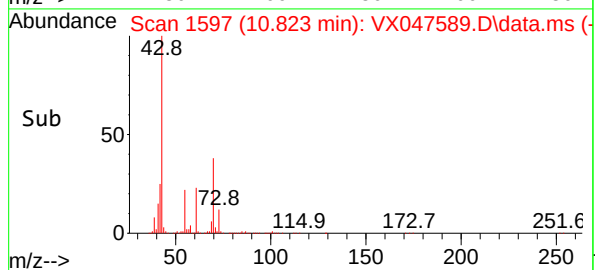
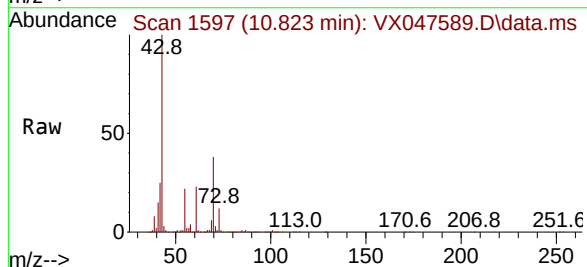
Manual Integrations
APPROVED

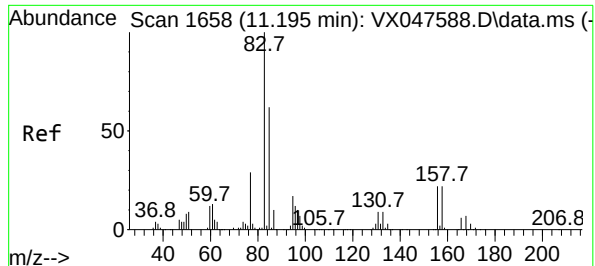
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

VSTDIC100

Tgt Ion: 83 Resp: 281608

Ion Ratio Lower Upper

83 100

131 10.4 5.0 14.9

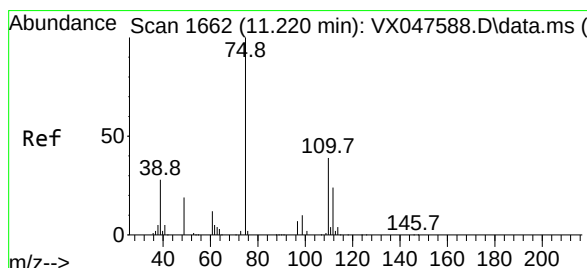
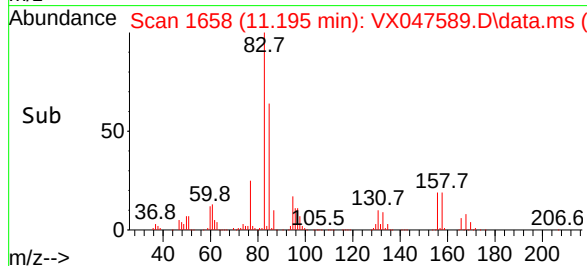
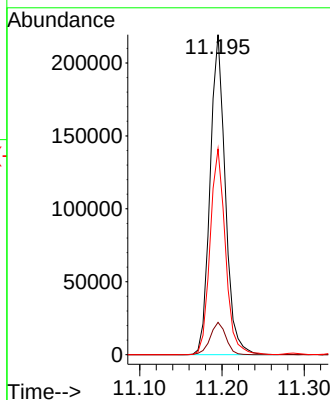
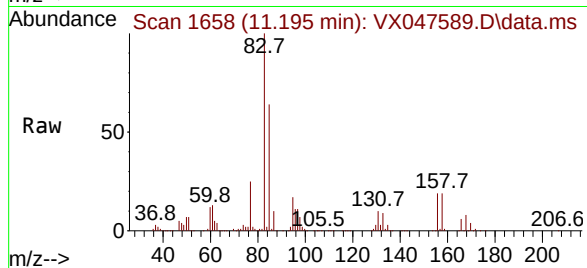
85 65.1 31.6 95.0

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

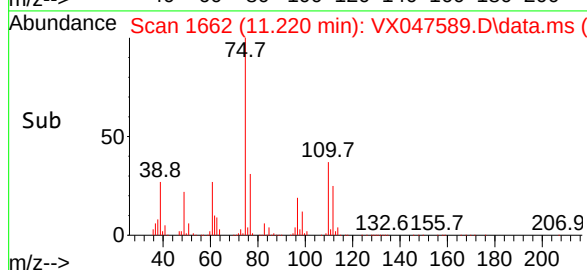
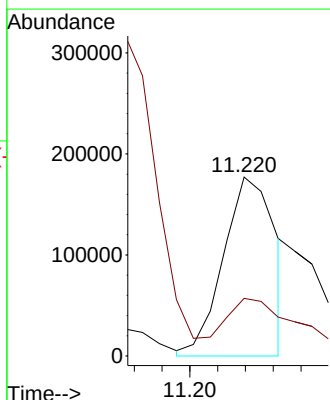
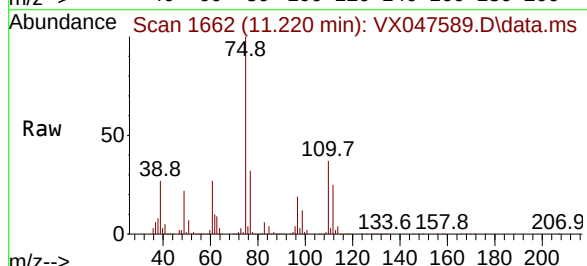
Acq: 16 Sep 2025 11:40

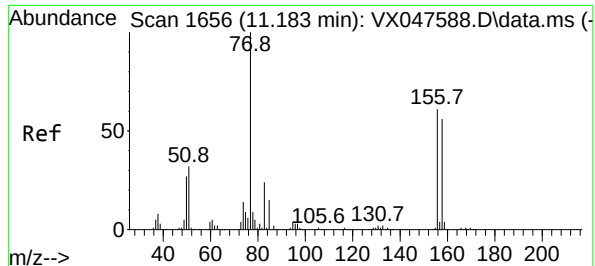
Tgt Ion: 75 Resp: 229521

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

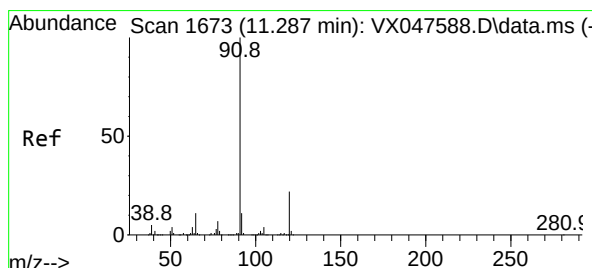
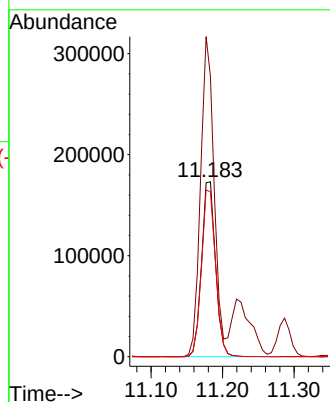
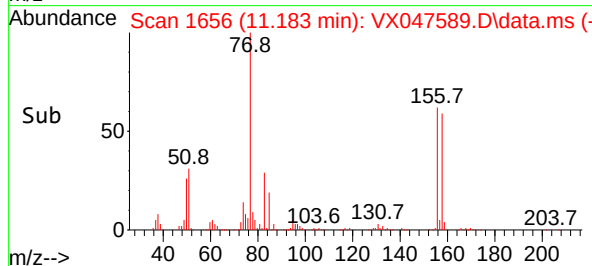
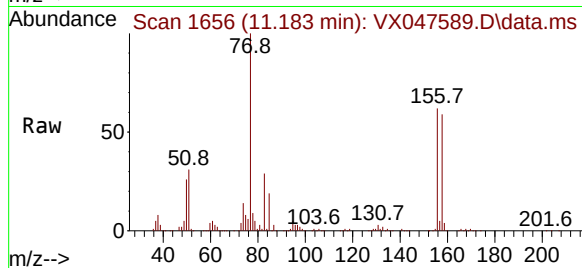
158 96.5 47.9 143.6

Manual Integrations

APPROVED

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

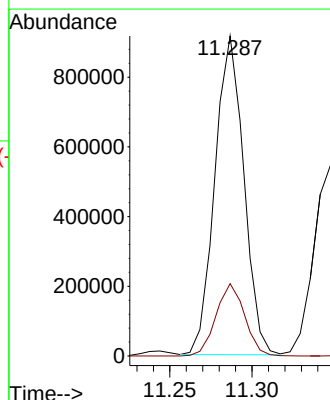
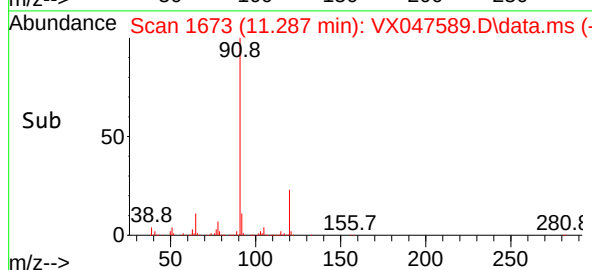
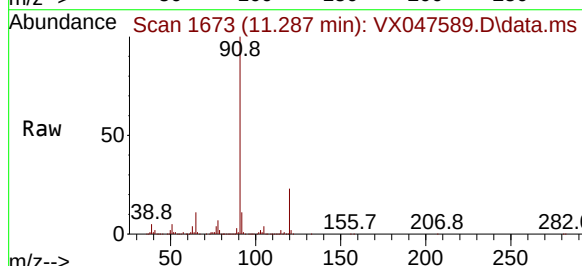
Acq: 16 Sep 2025 11:40

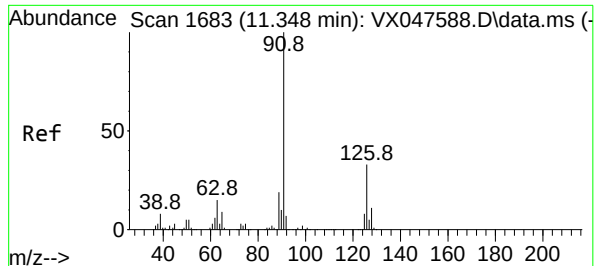
Tgt Ion: 91 Resp: 1119728

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

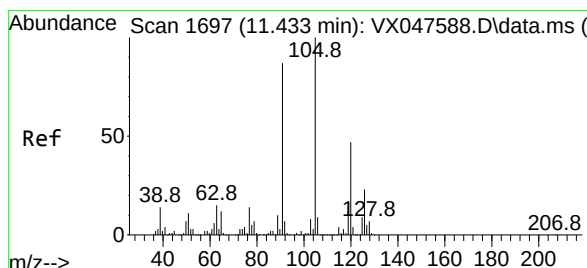
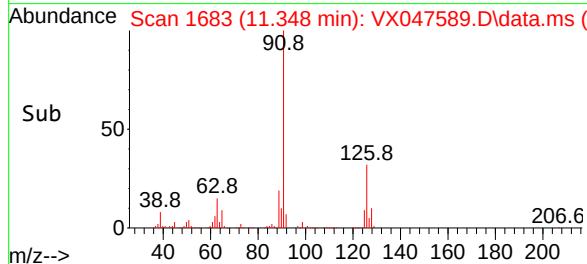
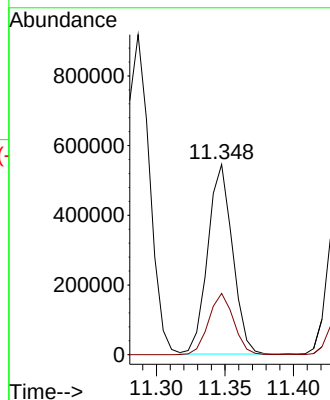
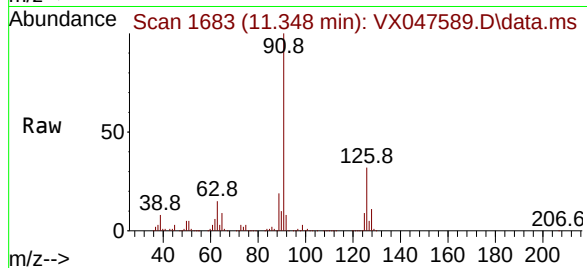
126 32.7 16.1 48.3

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

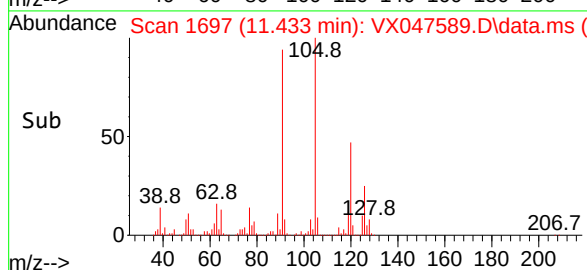
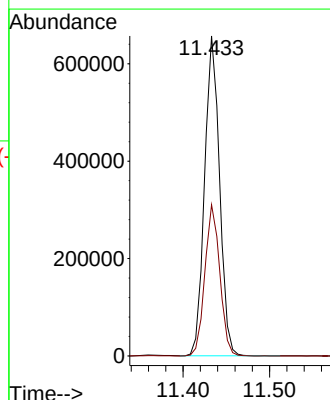
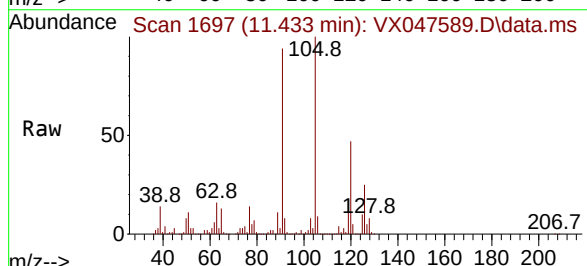
Acq: 16 Sep 2025 11:40

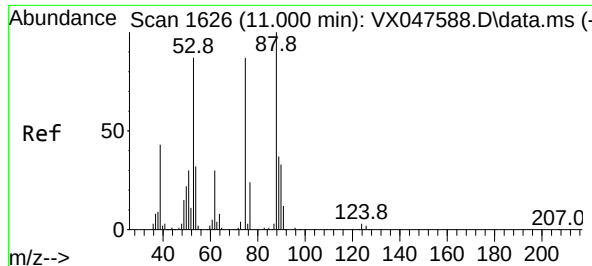
Tgt Ion:105 Resp: 787327

Ion Ratio Lower Upper

105 100

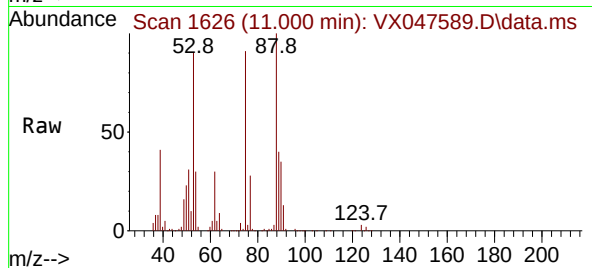
120 47.2 23.6 70.8





#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

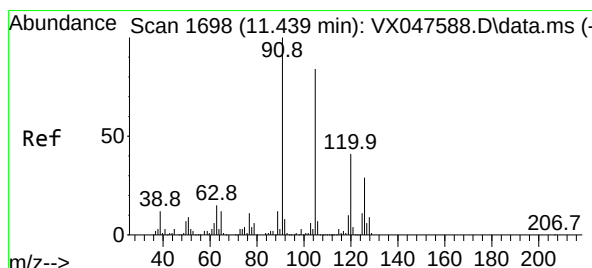
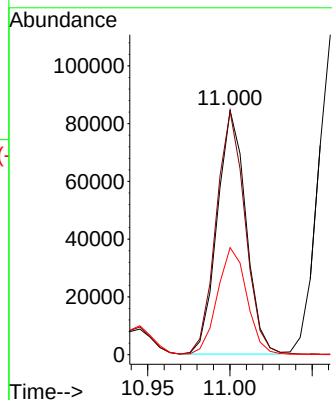
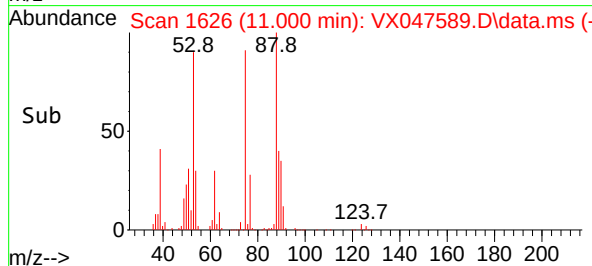
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



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

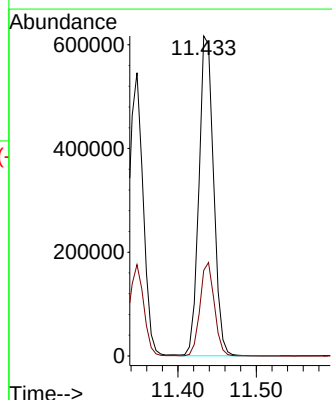
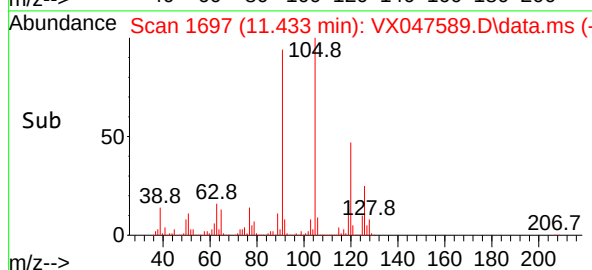
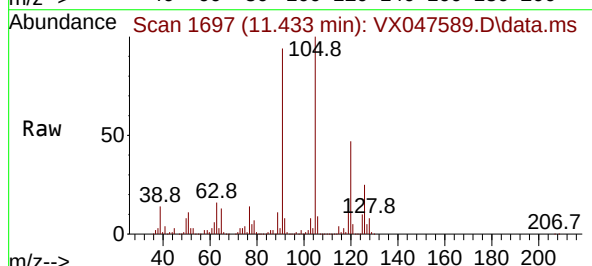
Manual Integrations
APPROVED

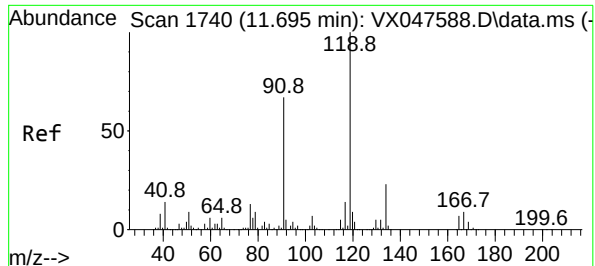
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

VSTDIC100

Tgt Ion:119 Resp: 791890

Ion Ratio Lower Upper

119 100

91 59.3 29.6 88.8

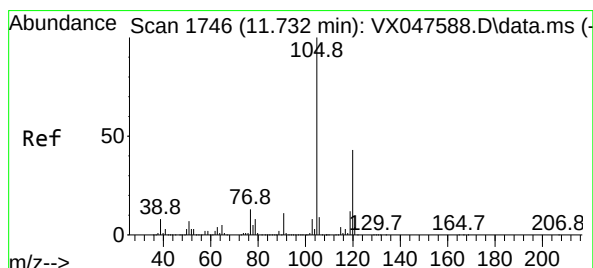
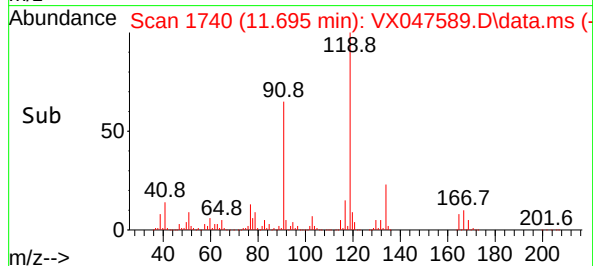
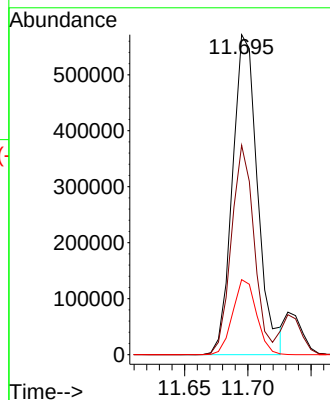
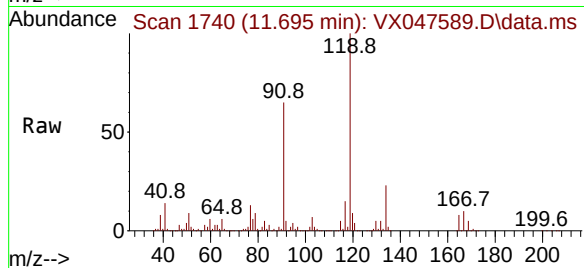
134 22.3 11.0 33.0

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

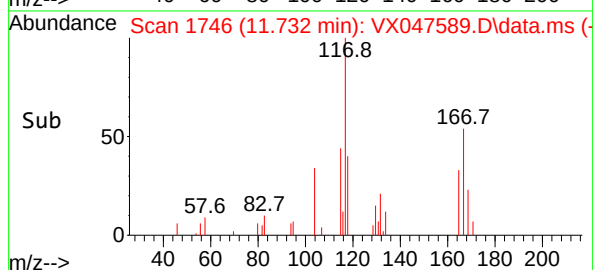
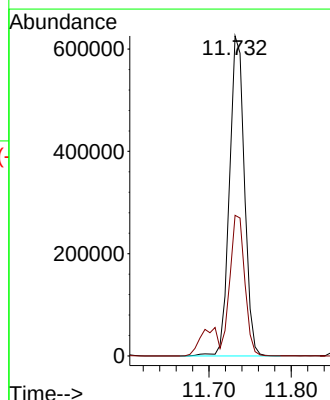
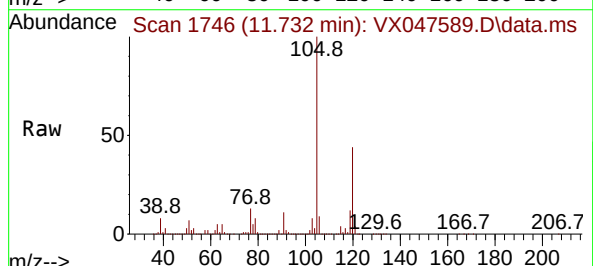
Acq: 16 Sep 2025 11:40

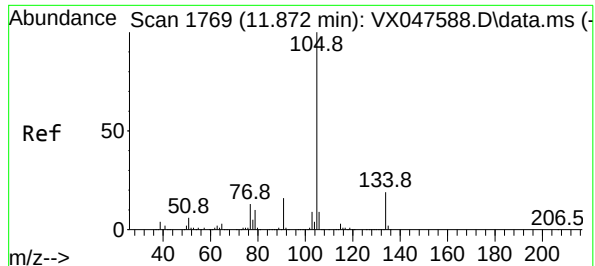
Tgt Ion:105 Resp: 790557

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

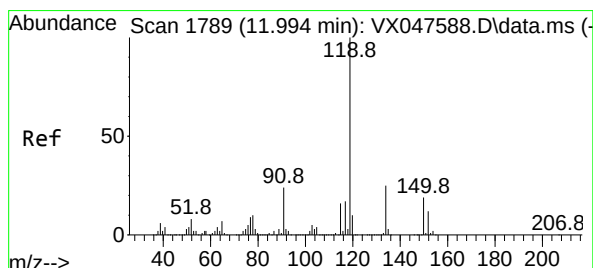
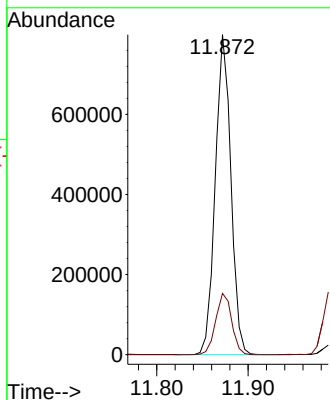
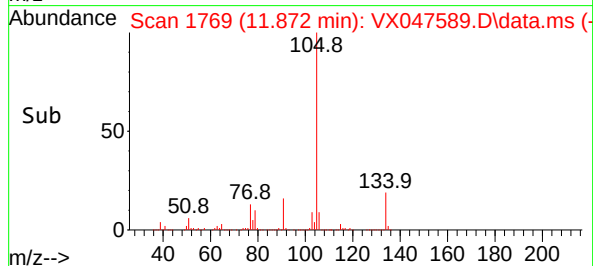
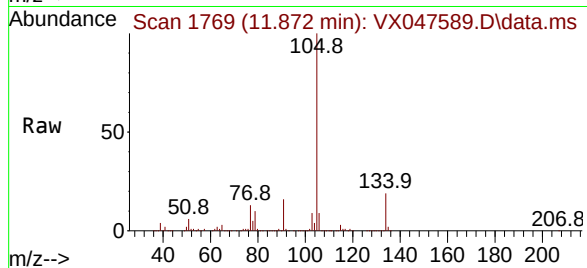
134 19.7 9.8 29.5

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

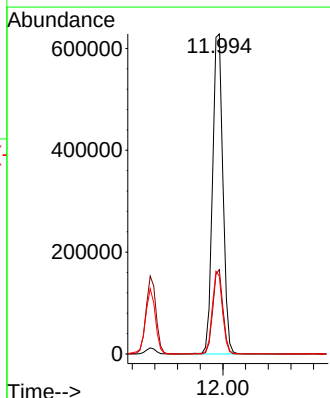
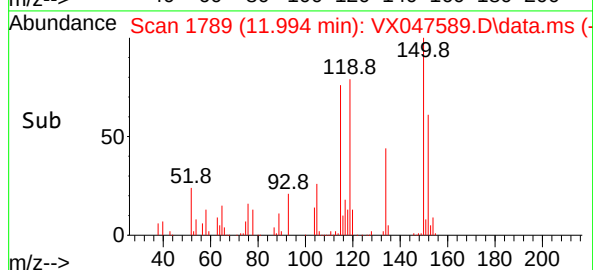
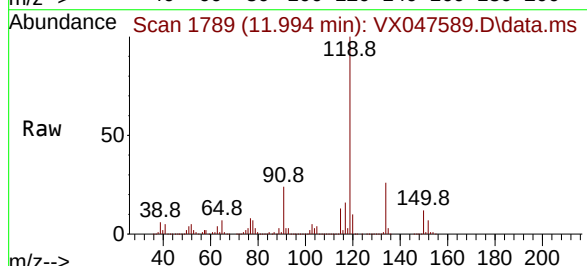
Tgt Ion:119 Resp: 797643

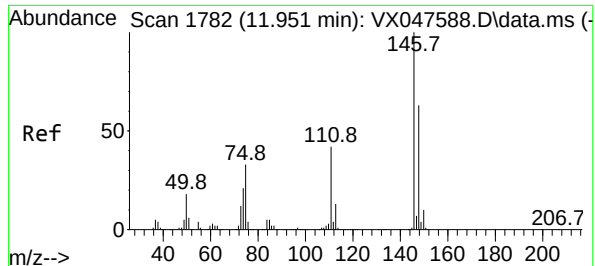
Ion Ratio Lower Upper

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 :

VSTDIC100

Tgt Ion:146 Resp: 432248

Ion Ratio Lower Upper

146 100

111 42.7 21.5 64.5

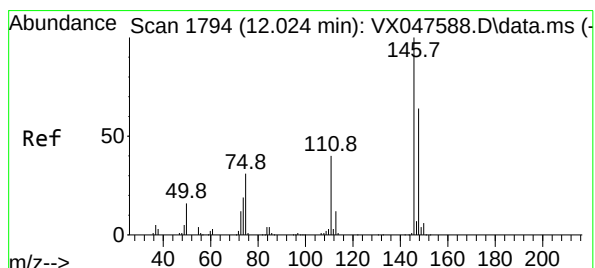
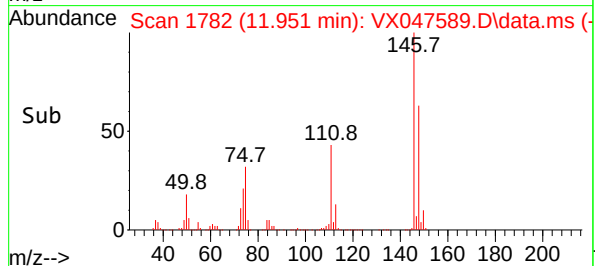
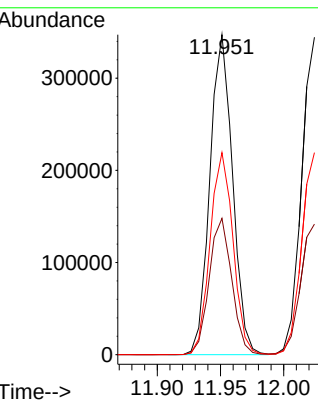
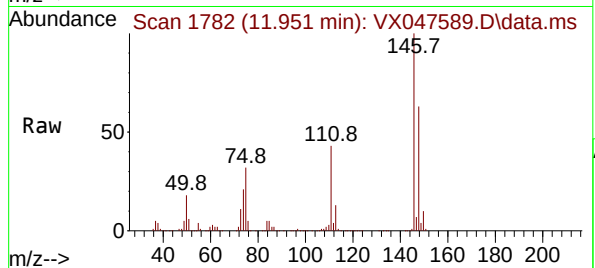
148 63.9 32.0 96.0

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

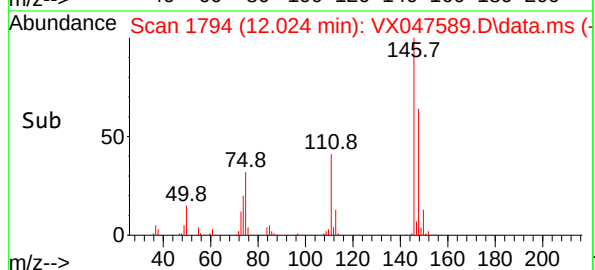
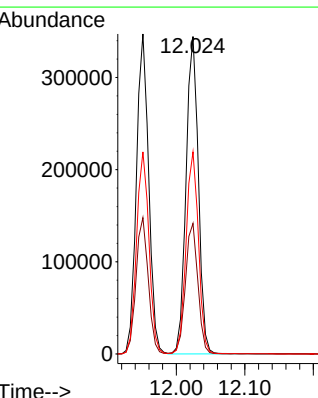
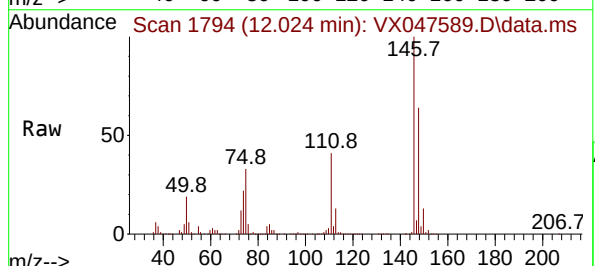
Tgt Ion:146 Resp: 431839

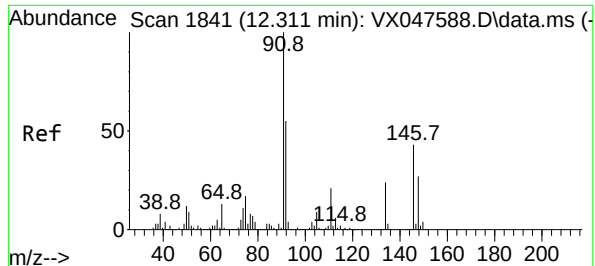
Ion Ratio Lower Upper

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 :

VSTDICC100

Tgt Ion: 91 Resp: 757239

Ion Ratio Lower Upper

91 100

92 54.4 27.6 82.7

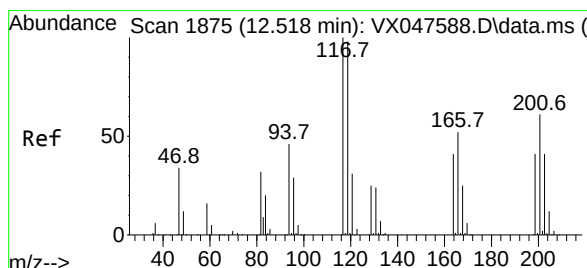
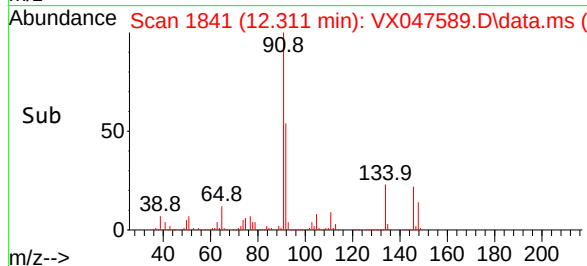
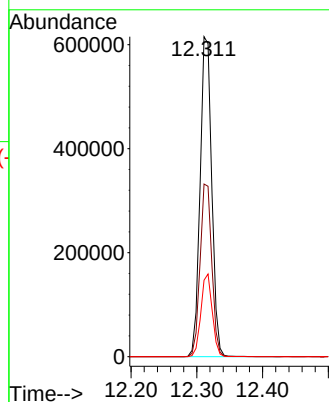
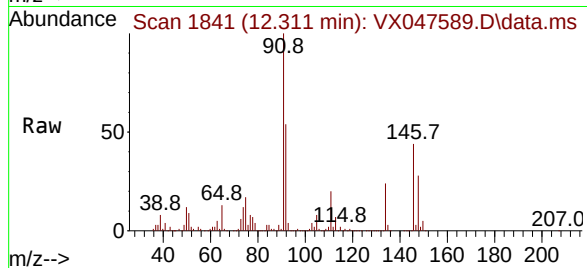
134 25.1 12.6 37.8

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

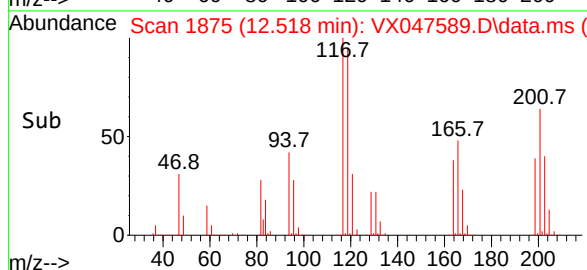
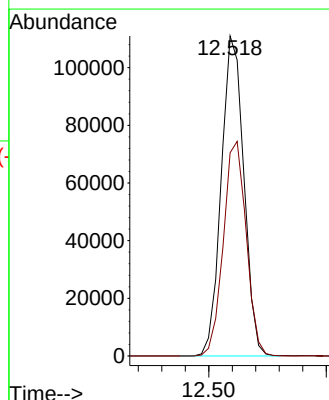
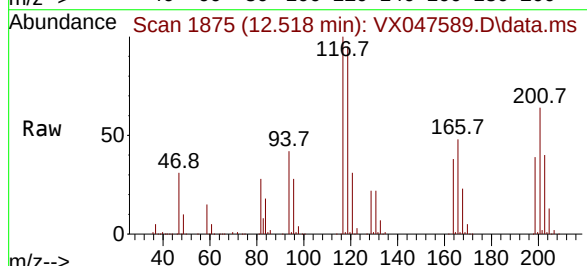
Acq: 16 Sep 2025 11:40

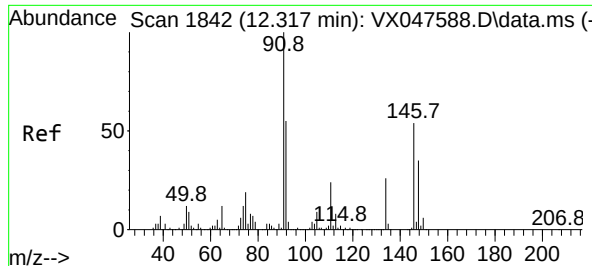
Tgt Ion:117 Resp: 148048

Ion Ratio Lower Upper

117 100

201 68.1 34.2 102.5





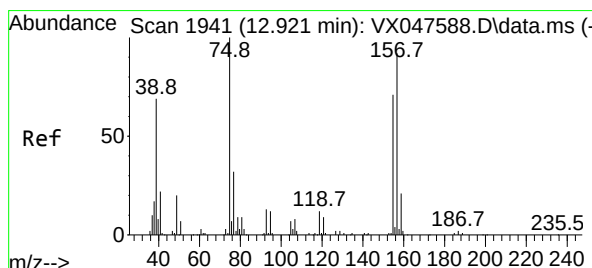
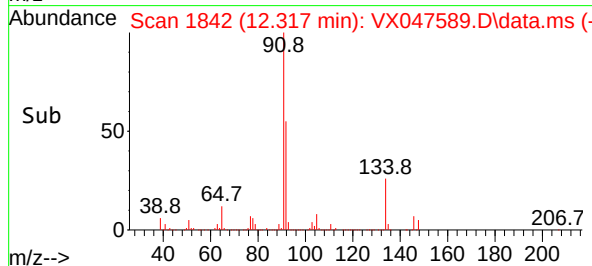
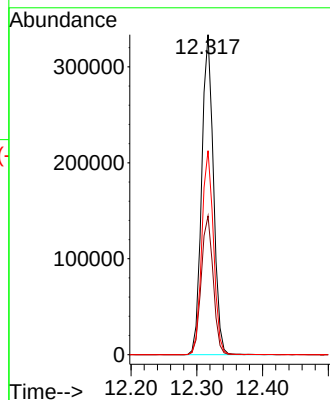
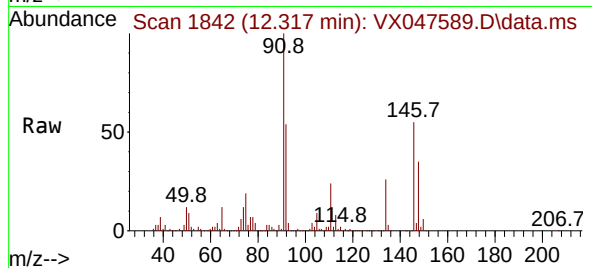
#91
1,2-Dichlorobenzene
Concen: 102.352 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047589.D
Acq: 16 Sep 2025 11:40

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

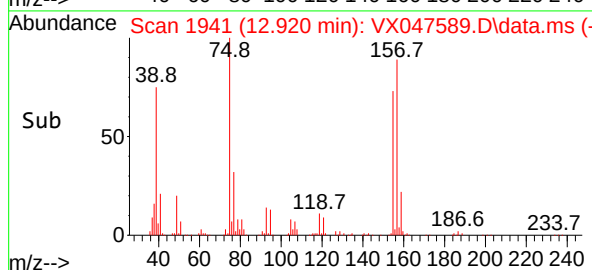
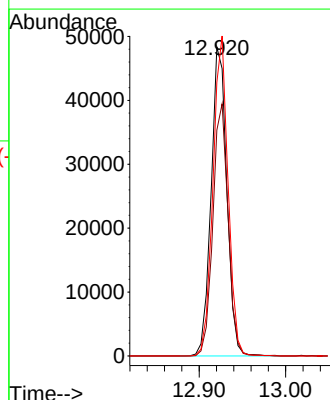
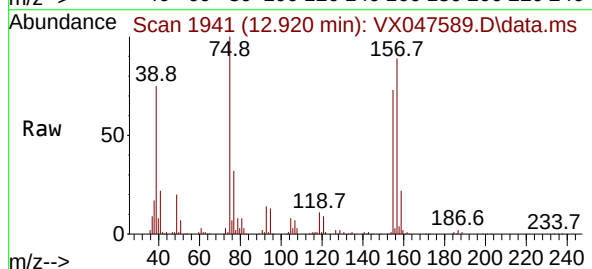
Manual Integrations
APPROVED

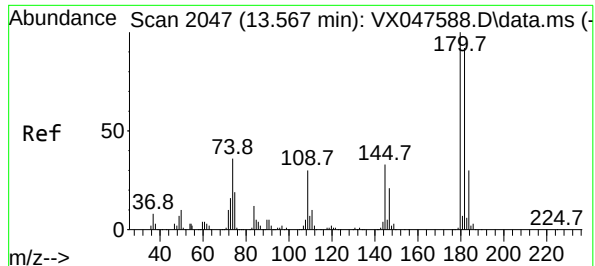
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

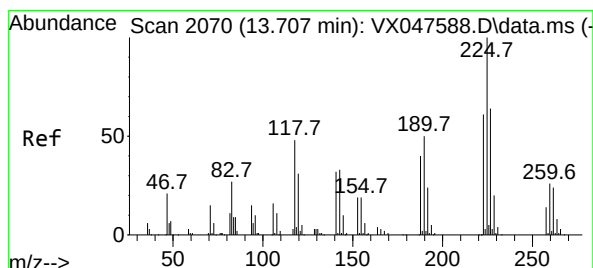
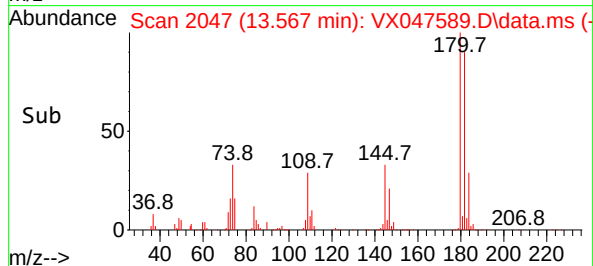
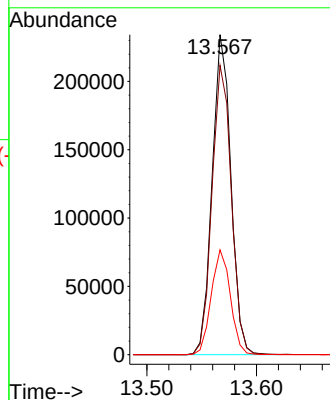
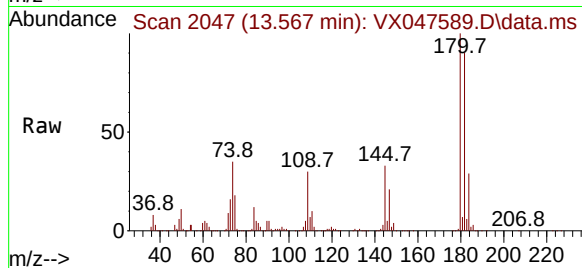
VSTDICC100

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

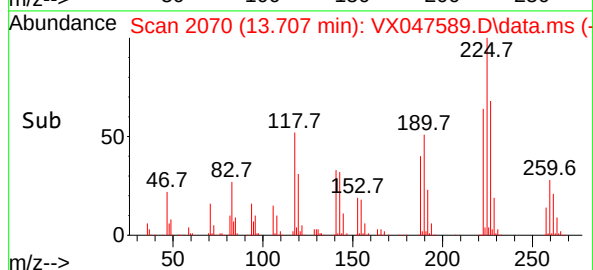
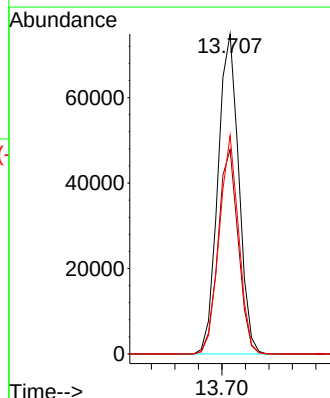
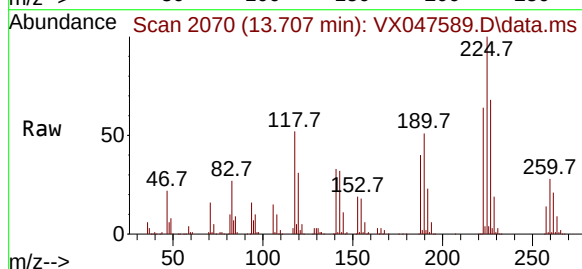
RT: 13.707 min Scan# 2070

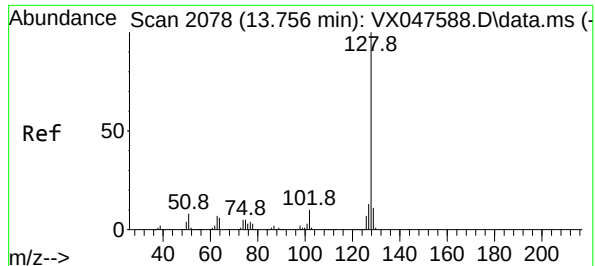
Delta R.T. -0.000 min

Lab File: VX047589.D

Acq: 16 Sep 2025 11:40

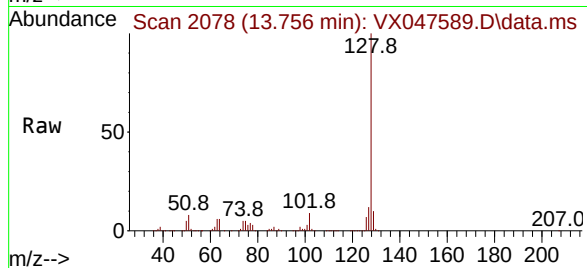
Tgt Ion:	225	Resp:	92124
Ion Ratio	Lower	Upper	
225	100		
223	62.0	31.7	95.1
227	63.8	32.0	96.0





#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

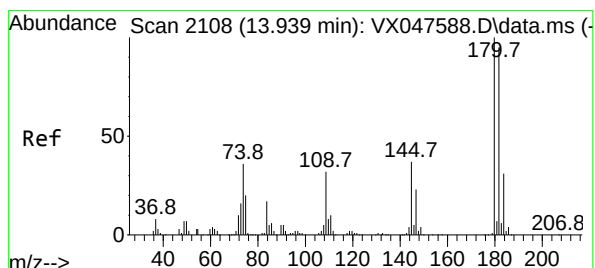
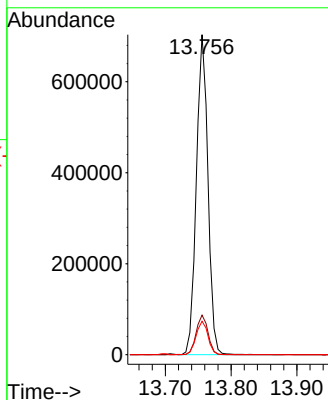
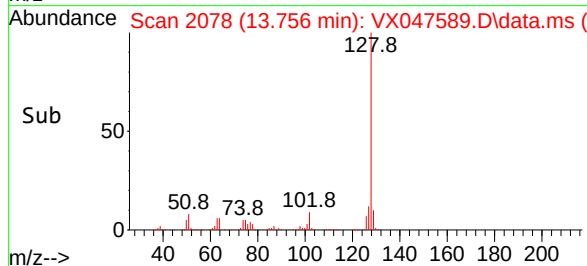
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



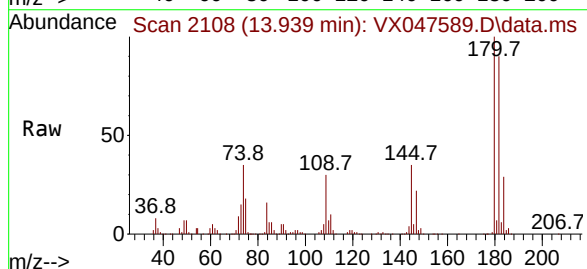
Tgt Ion:128 Resp: 854492
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.2
129 10.8 8.8 13.2

Manual Integrations
APPROVED

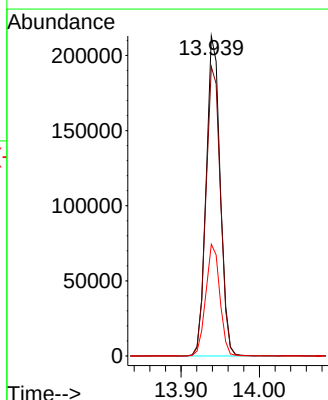
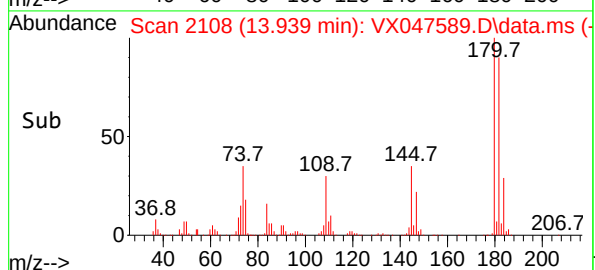
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025

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

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

Manual Integrations
APPROVED

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

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

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 : VX047590.D
Acq On : 16 Sep 2025 12:01
Operator : JC/MD
Sample : VSTDIC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :

MSVOA_X

Client Sample Id :

VSTDIC150

Manual Integrations

APPROVED

Reviewed By : John Carlone 09/17/2025

Supervised By : Mahesh Dadoda 09/18/2025

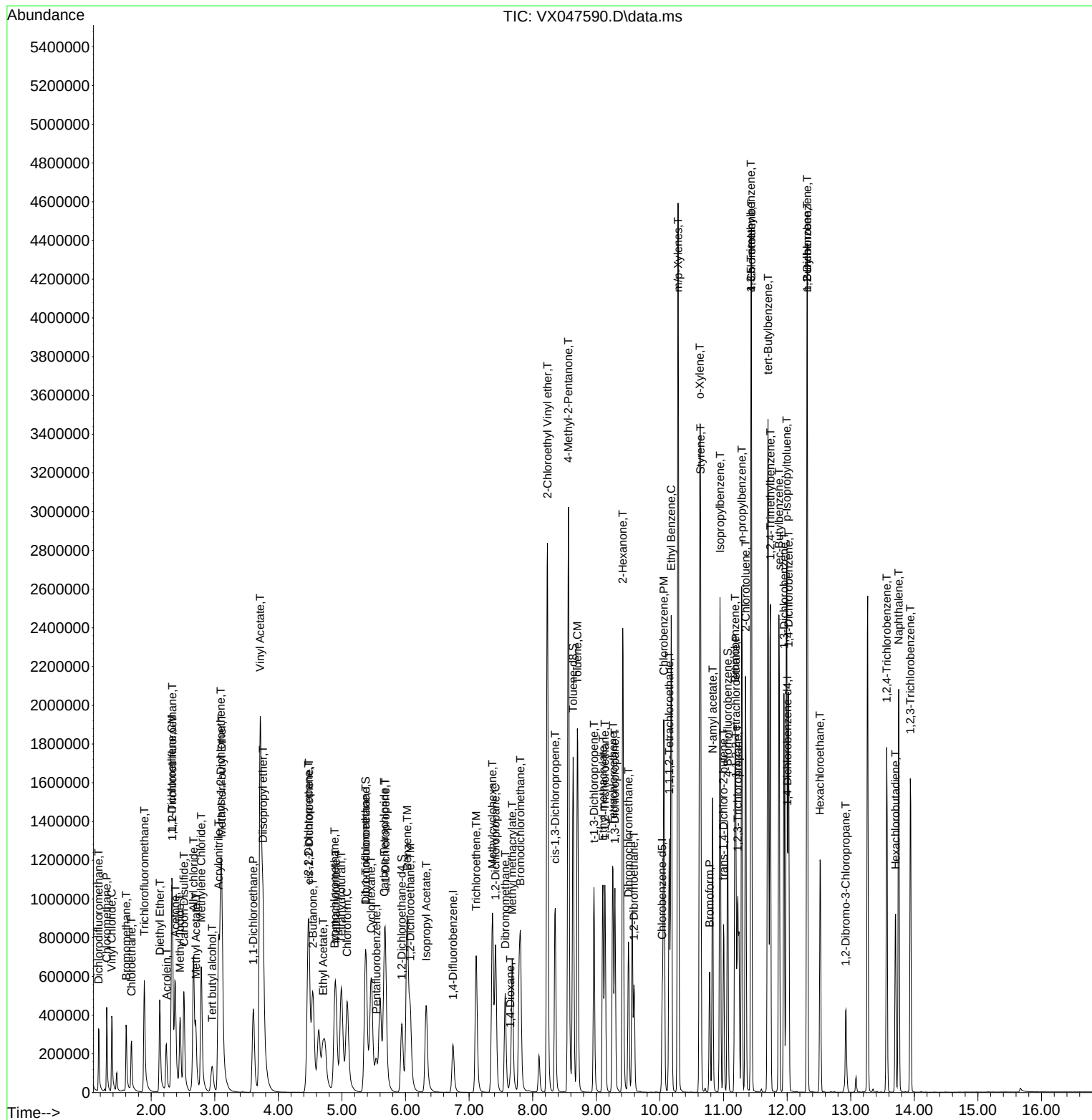
Quant Time: Sep 17 06:16:11 2025

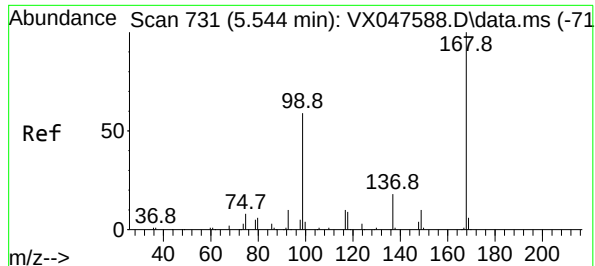
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M

Quant Title : SW846 8260

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

Response via : Initial Calibration





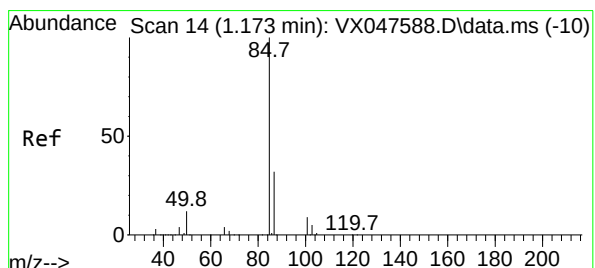
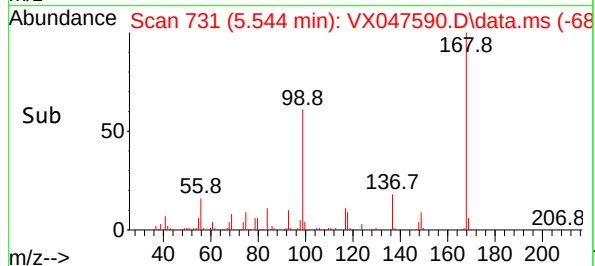
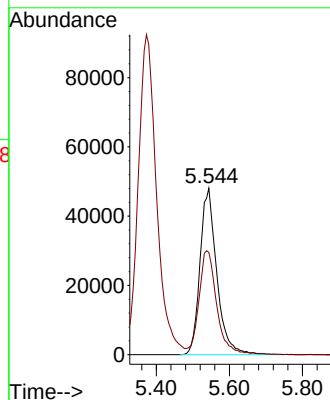
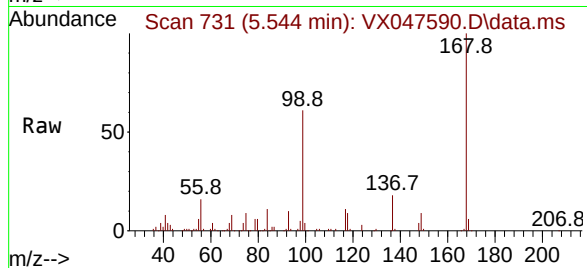
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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

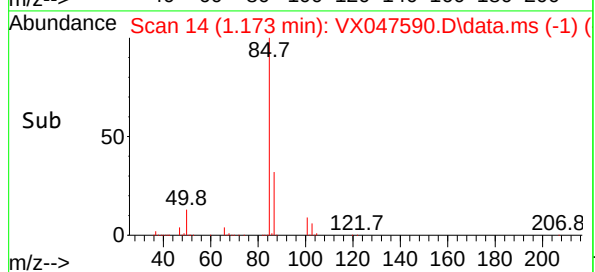
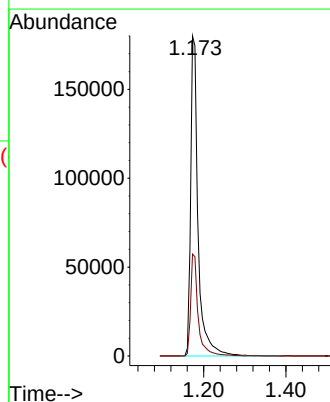
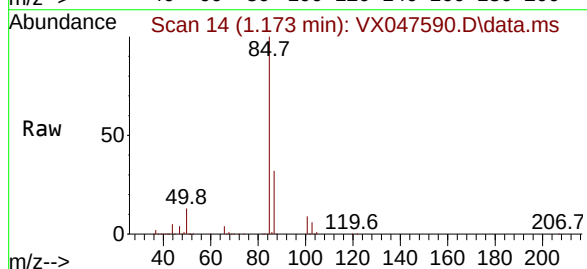
Manual Integrations
APPROVED

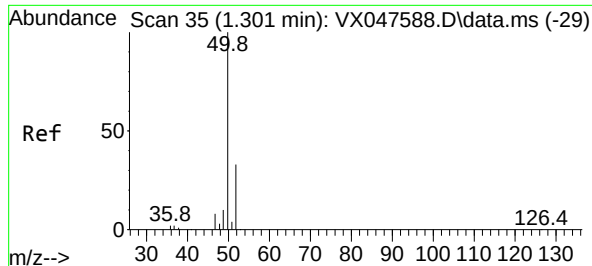
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

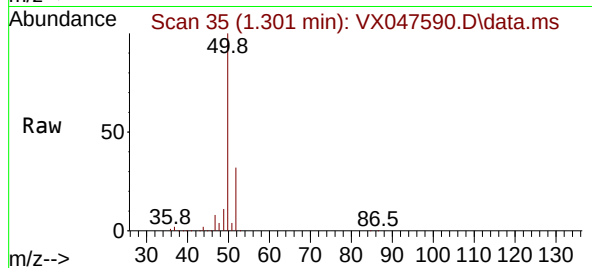
Tgt Ion: 85 Resp: 226166
Ion Ratio Lower Upper
85 100
87 31.8 15.8 47.3





#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

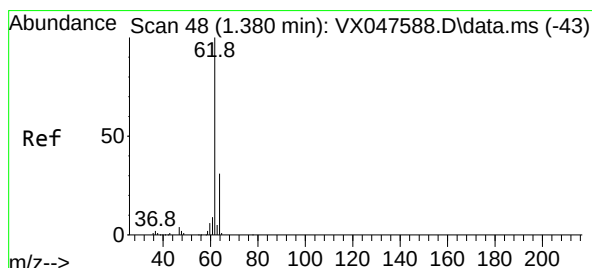
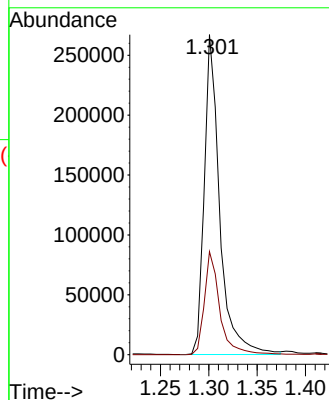
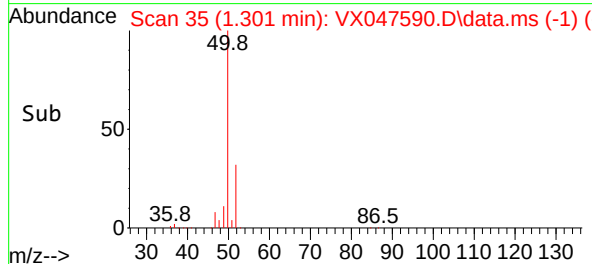
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



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

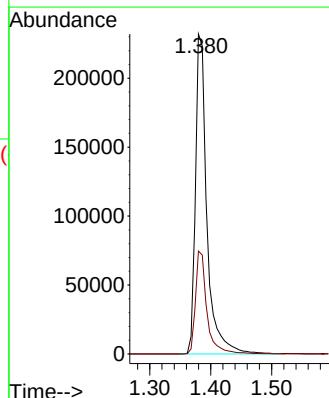
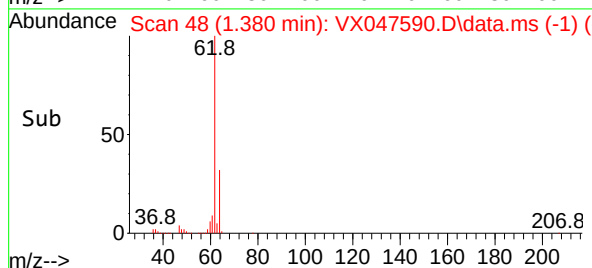
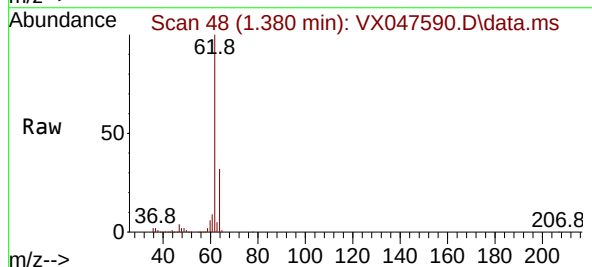
Manual Integrations
APPROVED

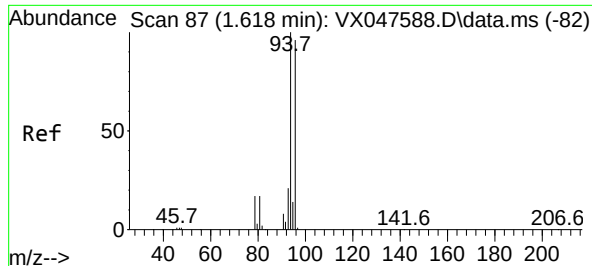
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

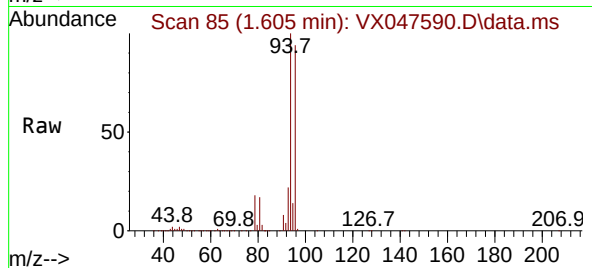
Tgt Ion: 62 Resp: 302303
Ion Ratio Lower Upper
62 100
64 32.1 24.9 37.3





#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

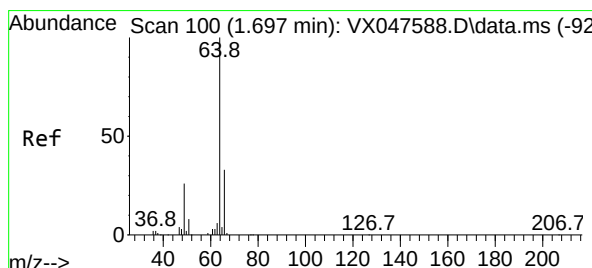
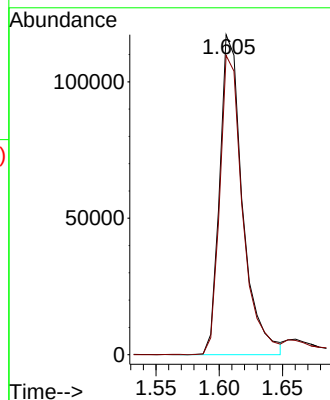
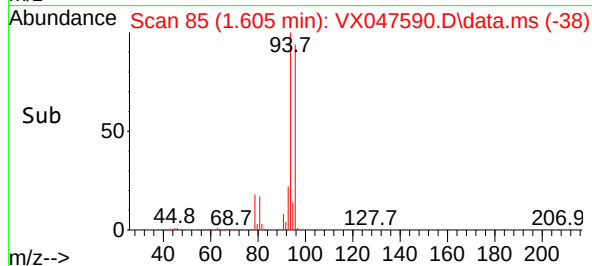
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



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

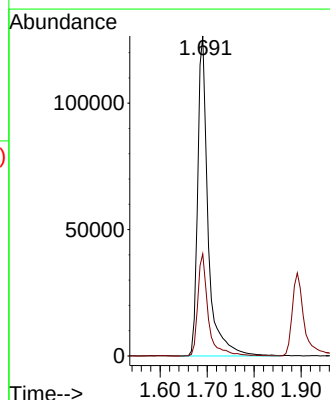
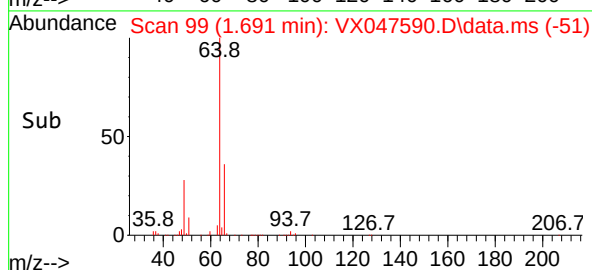
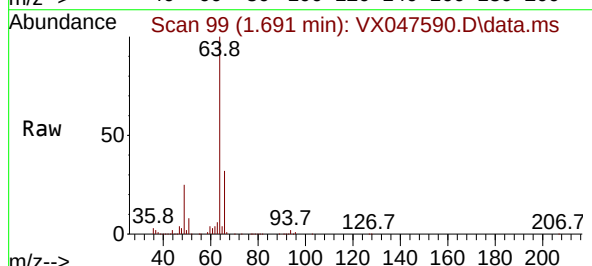
Manual Integrations
APPROVED

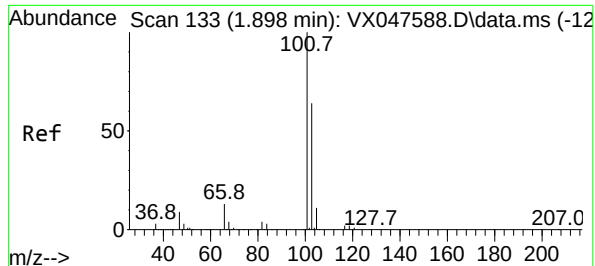
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

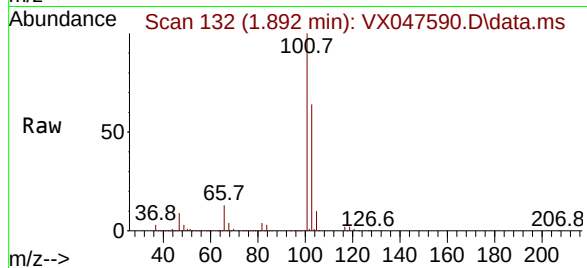
Tgt Ion: 64 Resp: 195927
Ion Ratio Lower Upper
64 100
66 31.9 26.1 39.1





#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

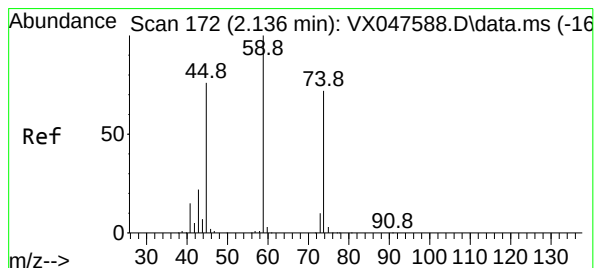
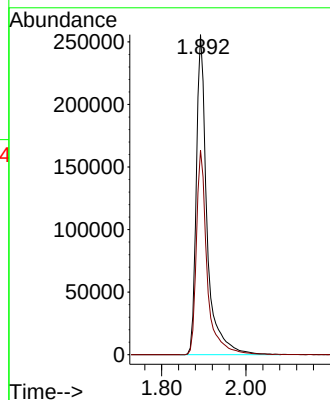
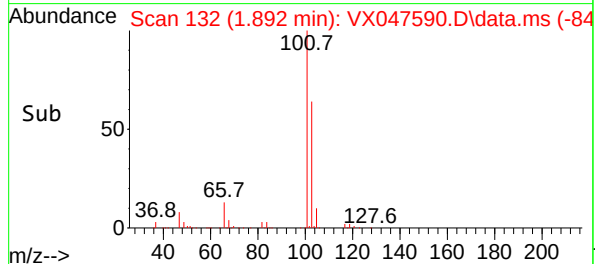
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



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

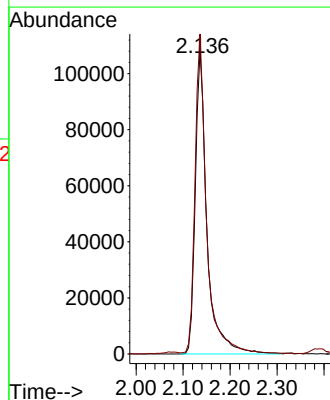
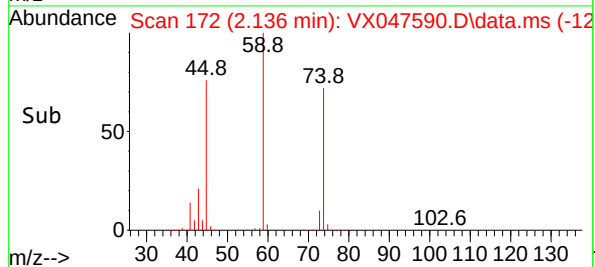
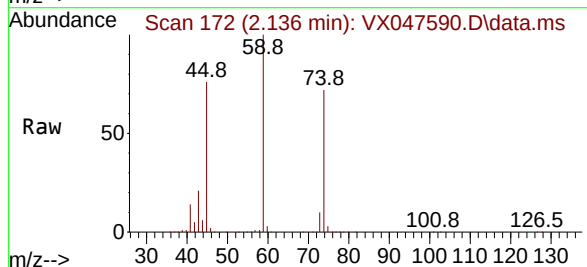
Manual Integrations
APPROVED

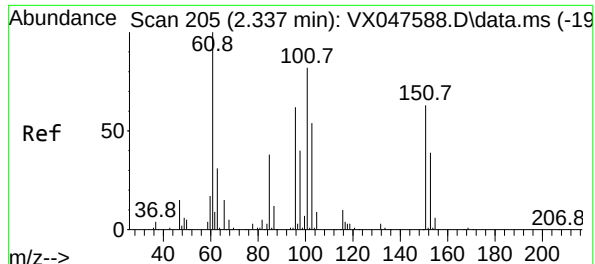
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

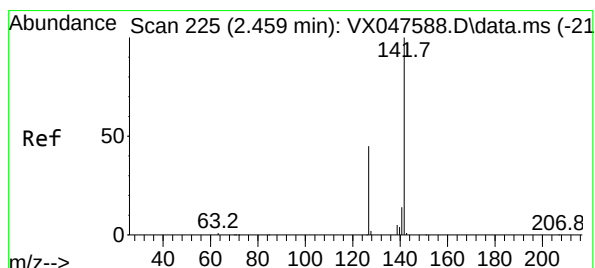
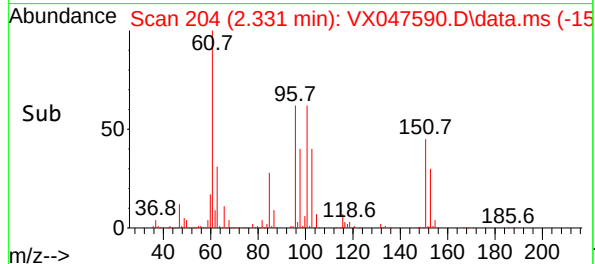
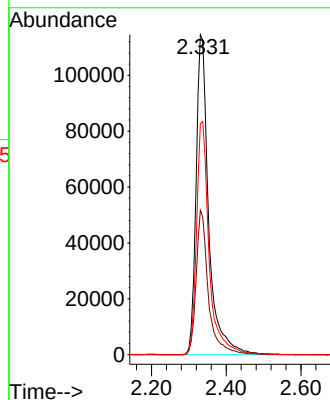
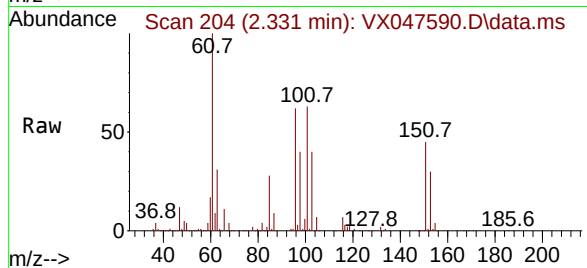
Tgt Ion:	101	Resp:	26799
Ion	Ratio	Lower	Upper
101	100		
85	43.9	35.5	53.3
151	73.2	59.4	89.0

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

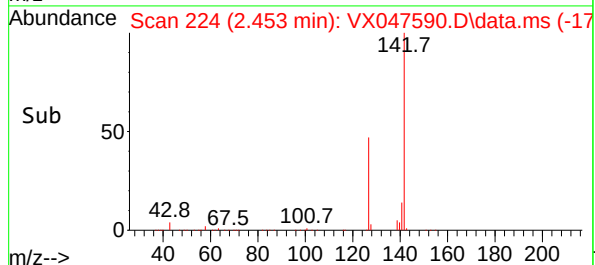
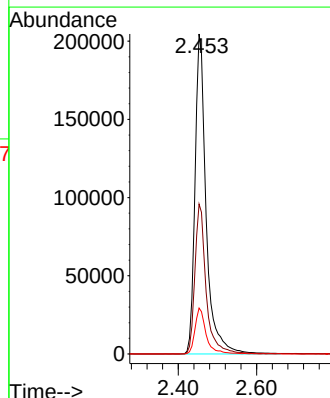
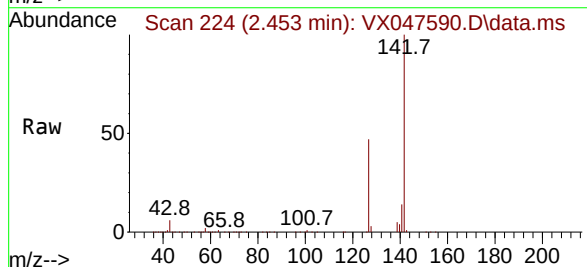
RT: 2.453 min Scan# 224

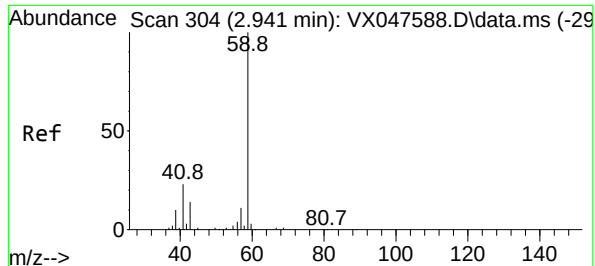
Delta R.T. -0.006 min

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# 307

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

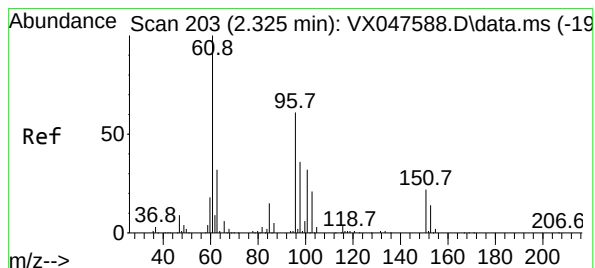
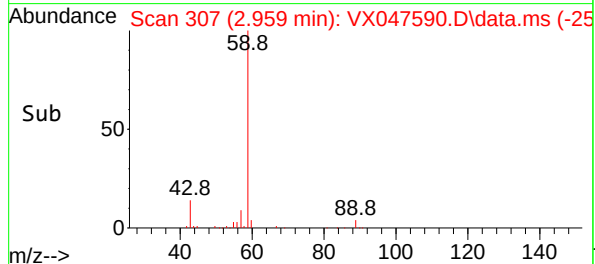
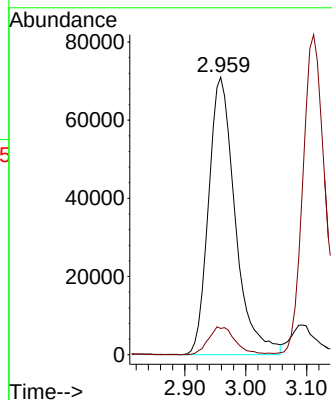
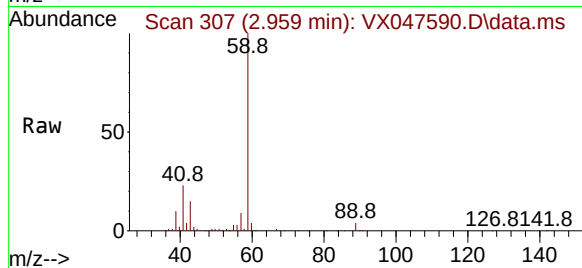
57 10.2 8.3 12.5

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

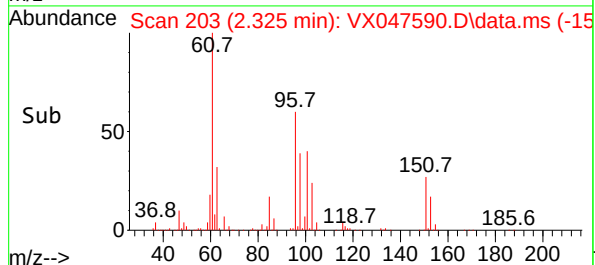
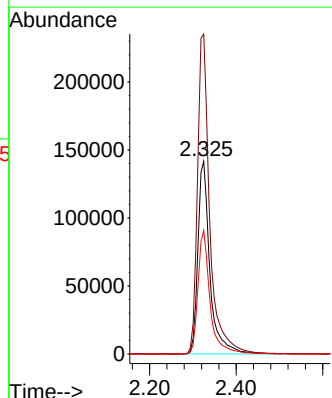
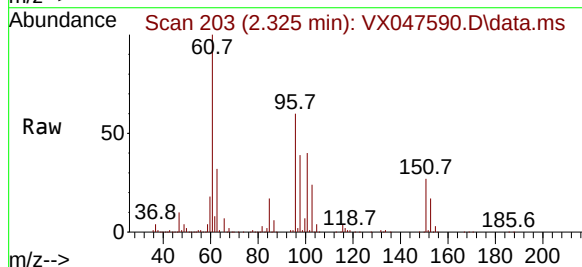
Tgt Ion: 96 Resp: 273692

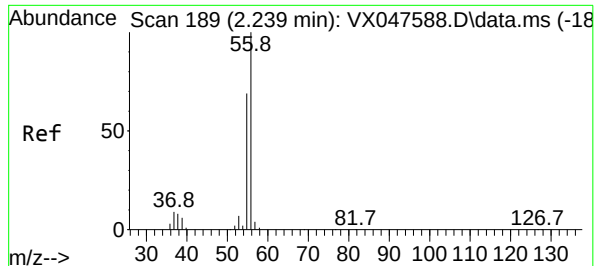
Ion Ratio Lower Upper

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

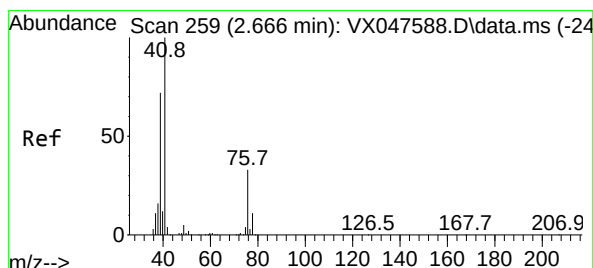
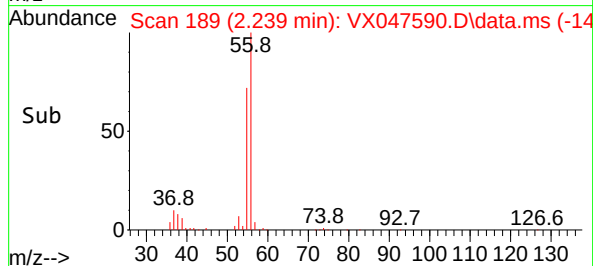
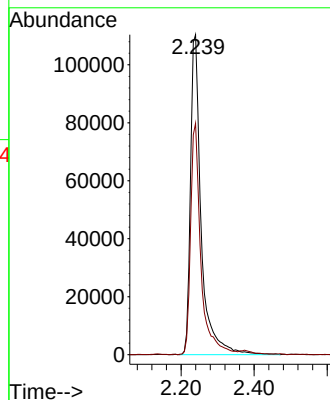
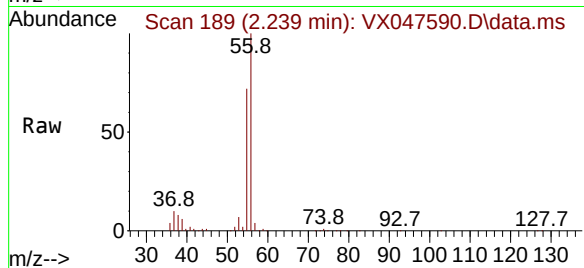
55 69.6 57.2 85.8

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

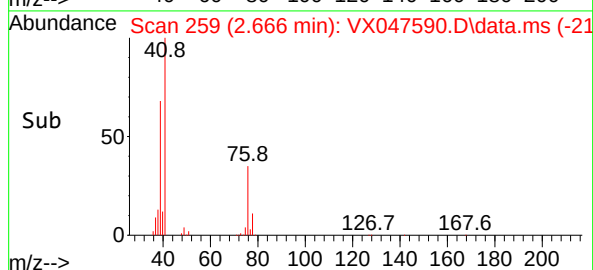
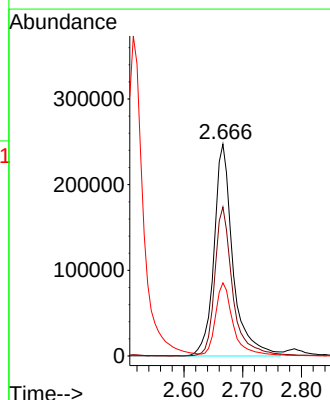
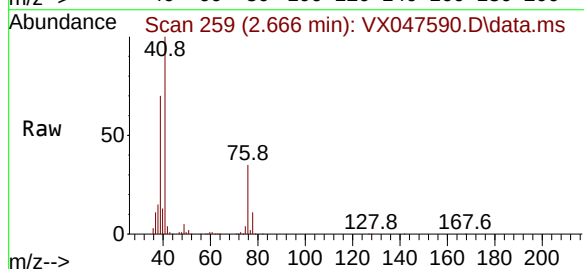
Tgt Ion: 41 Resp: 554779

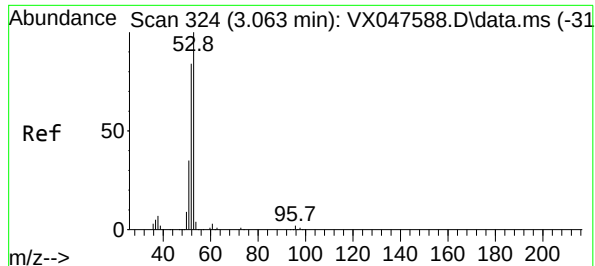
Ion Ratio Lower Upper

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

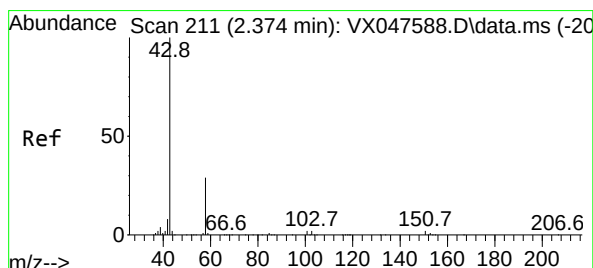
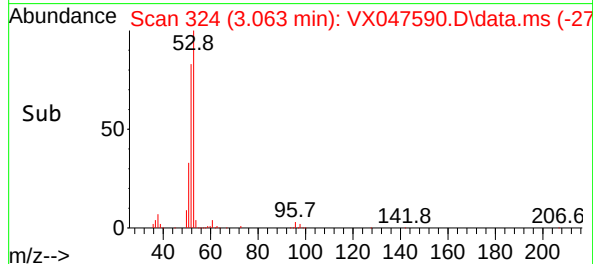
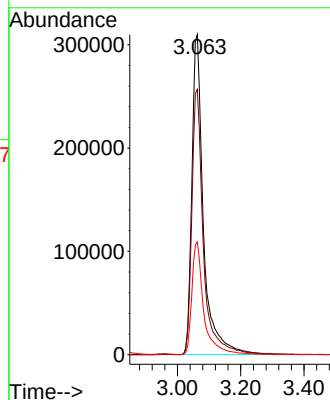
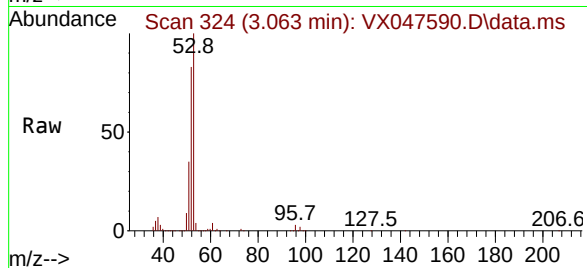
51 36.1 29.5 44.3

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

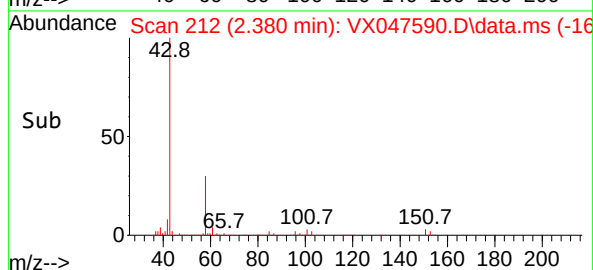
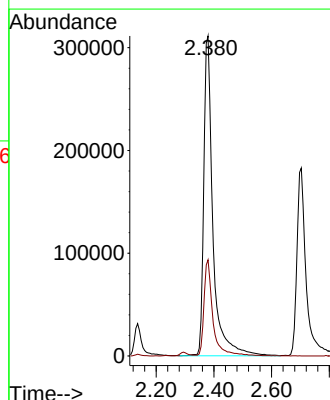
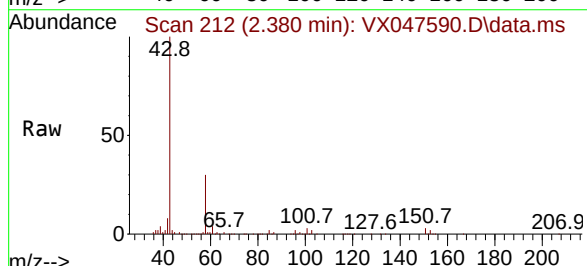
Acq: 16 Sep 2025 12:01

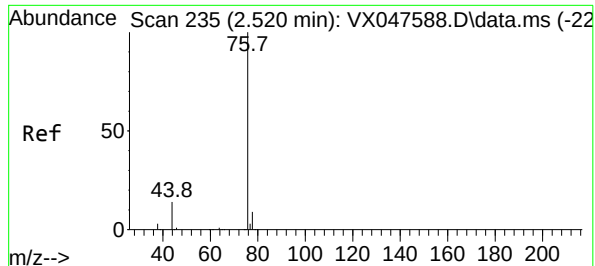
Tgt Ion: 43 Resp: 686119

Ion Ratio Lower Upper

43 100

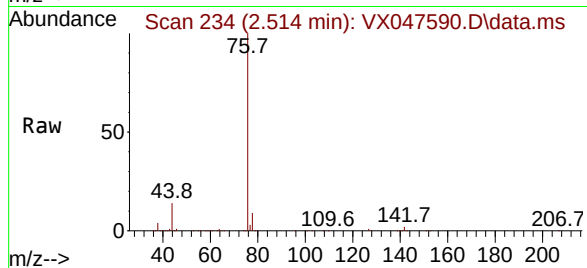
58 30.0 23.4 35.0





#17
Carbon Disulfide
Concen: 143.412 ug/l
RT: 2.514 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

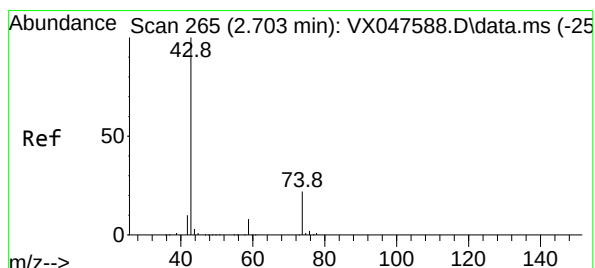
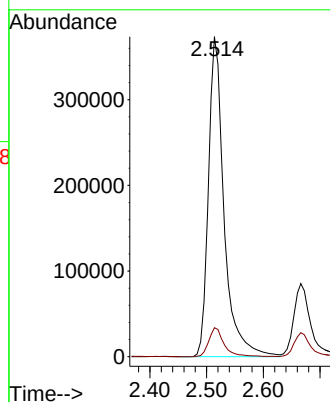
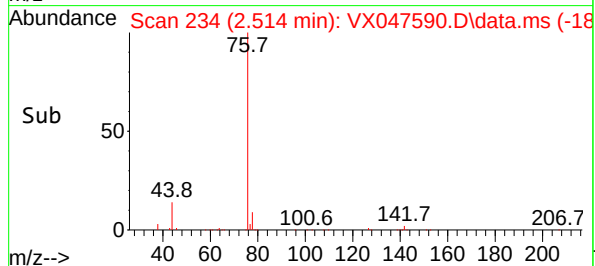
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 76 Resp: 71450
Ion Ratio Lower Upper
76 100
78 9.0 6.8 10.2

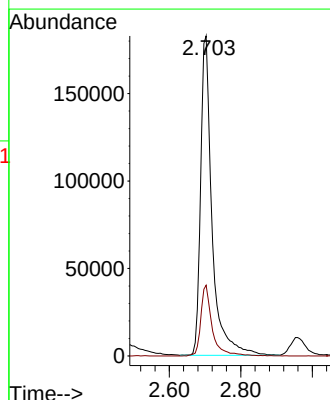
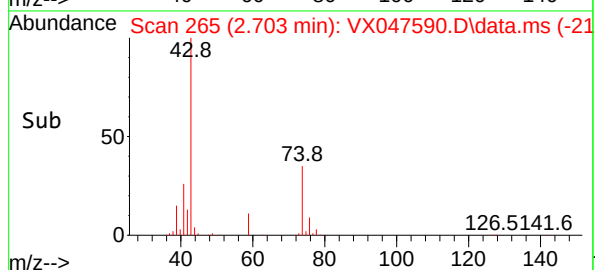
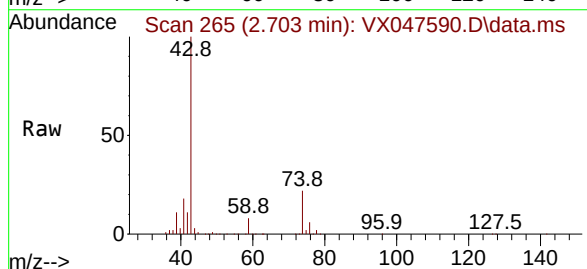
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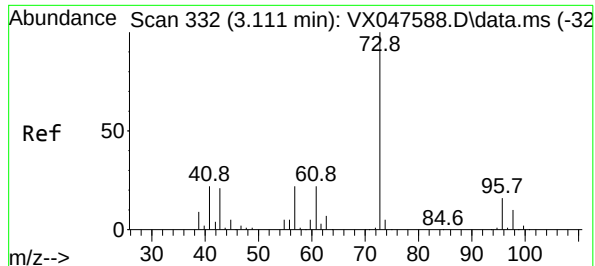
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

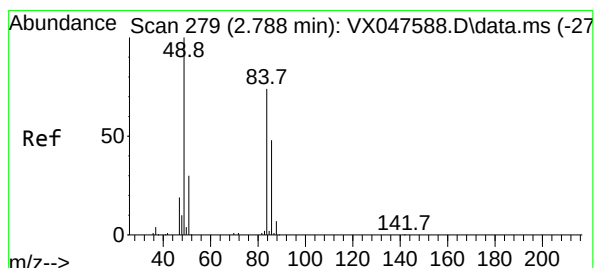
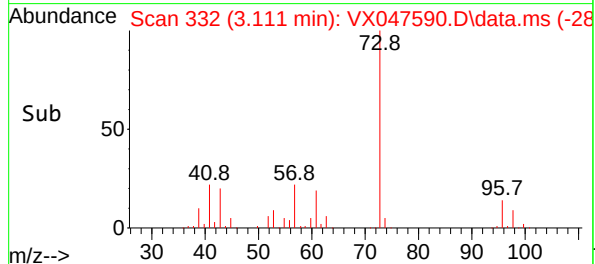
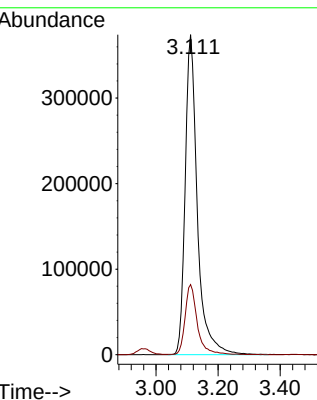
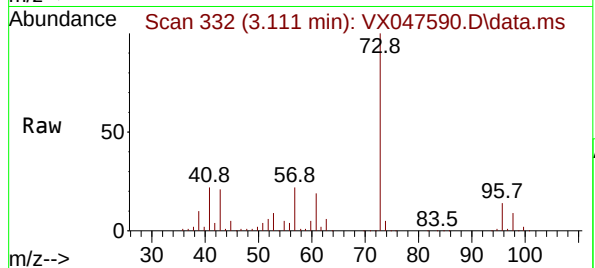
57 21.9 17.4 26.2

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

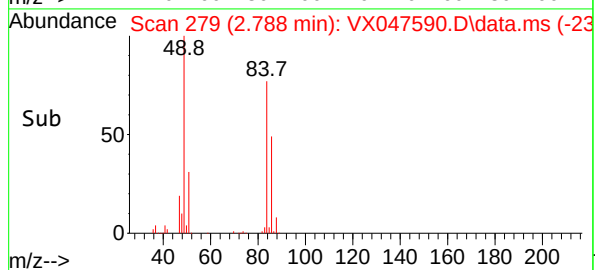
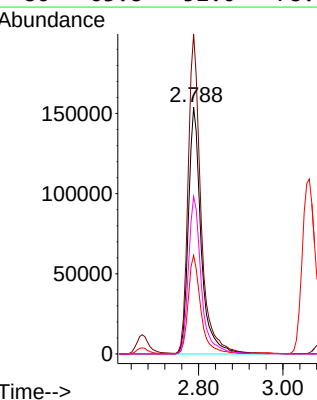
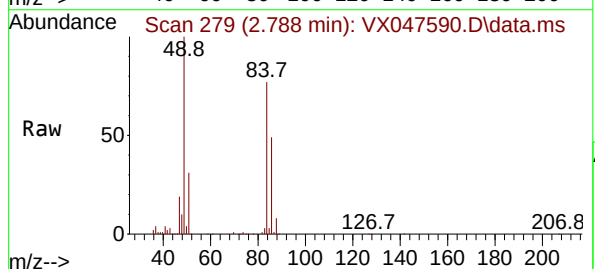
Ion Ratio Lower Upper

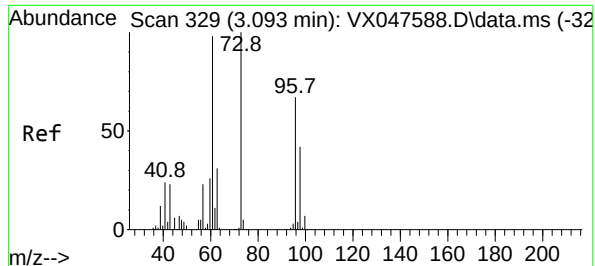
84 100

49 129.4 108.6 162.8

51 39.9 32.6 48.8

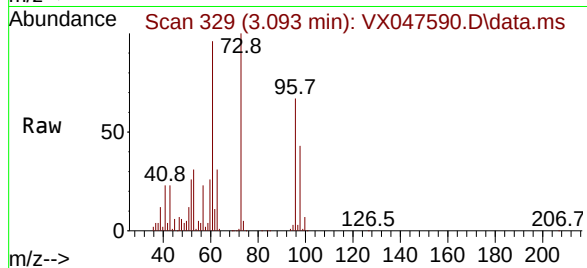
86 63.8 52.0 78.0





#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

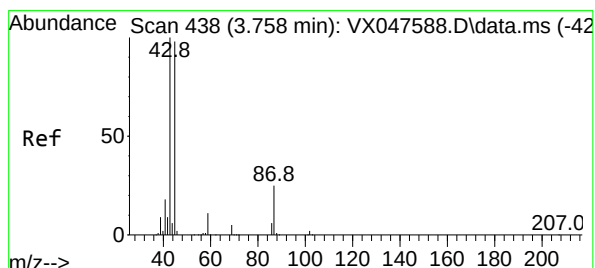
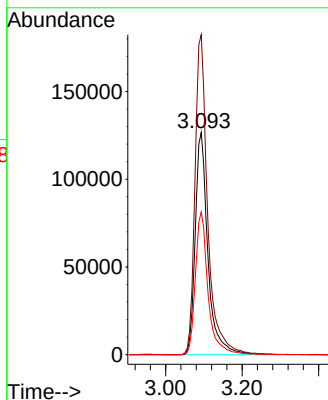
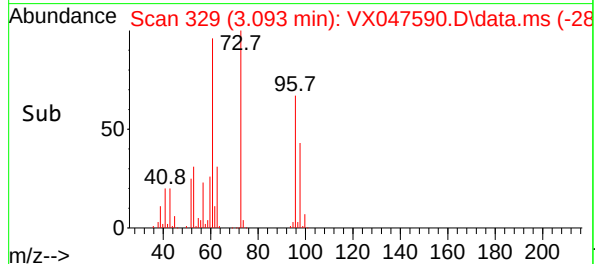
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



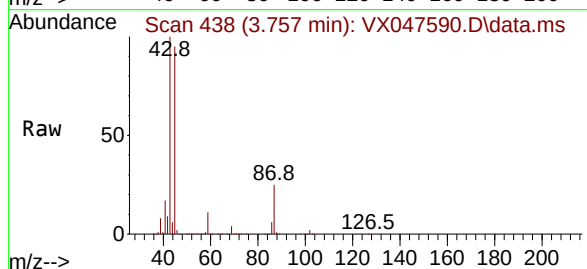
Tgt Ion: 96 Resp: 291610
Ion Ratio Lower Upper
96 100
61 144.0 116.2 174.2
98 64.3 49.3 73.9

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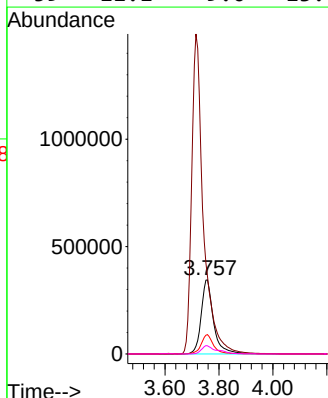
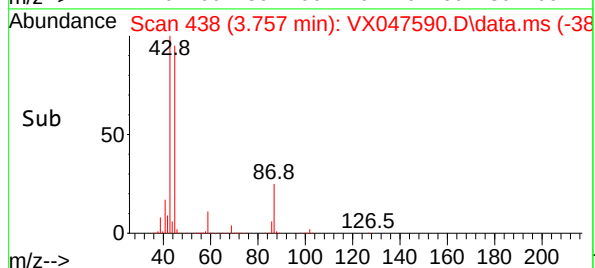
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

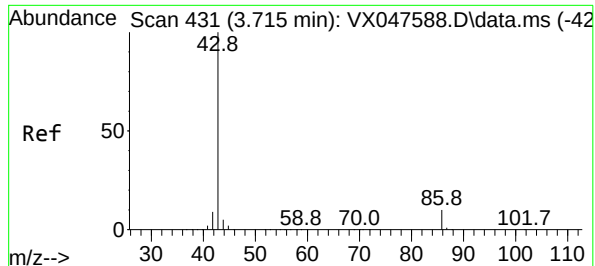


#22
Diisopropyl ether
Concen: 150.551 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01



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

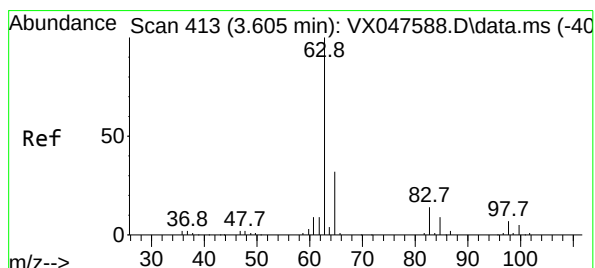
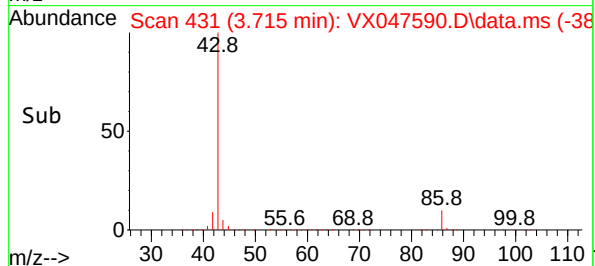
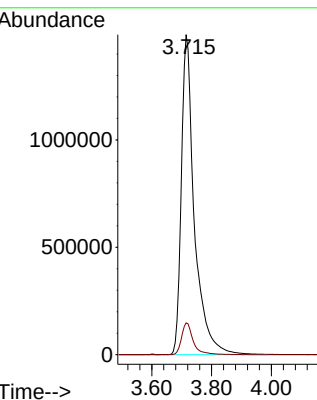
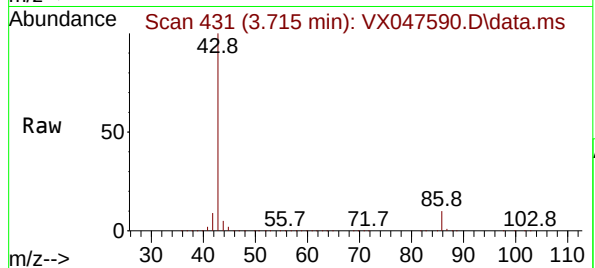
86 10.0 7.8 11.8

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

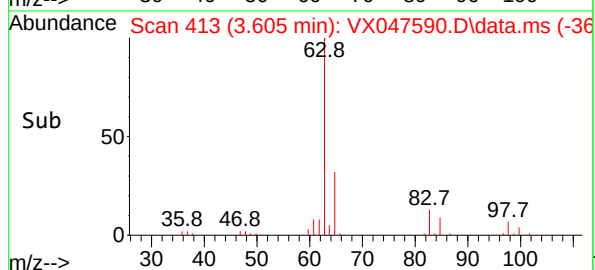
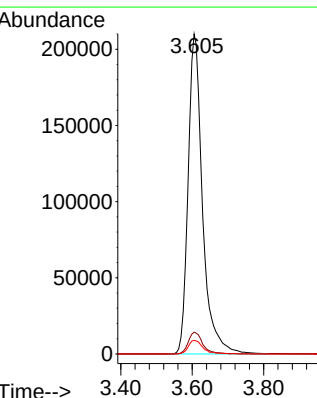
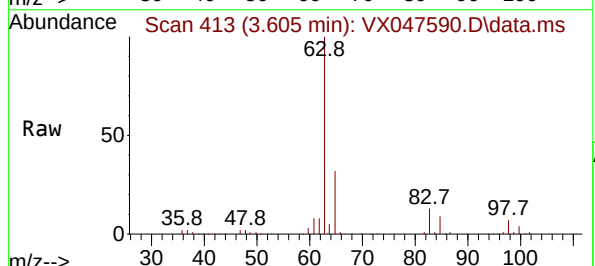
Tgt Ion: 63 Resp: 587129

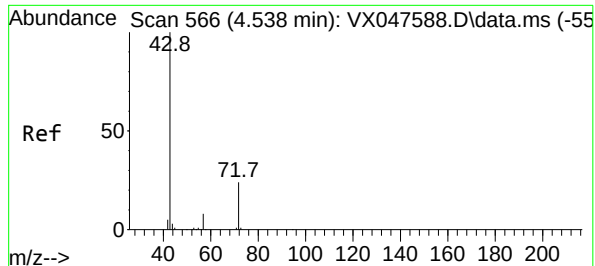
Ion Ratio Lower Upper

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

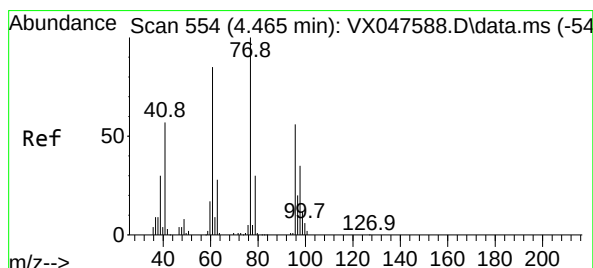
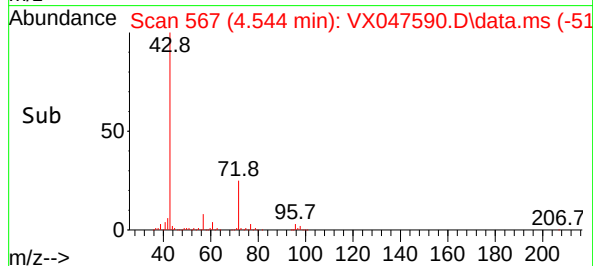
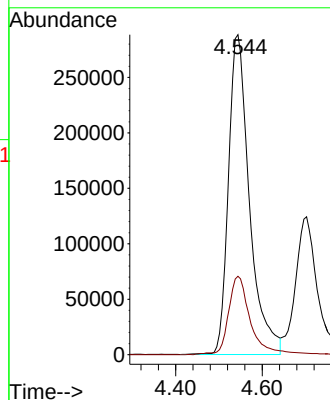
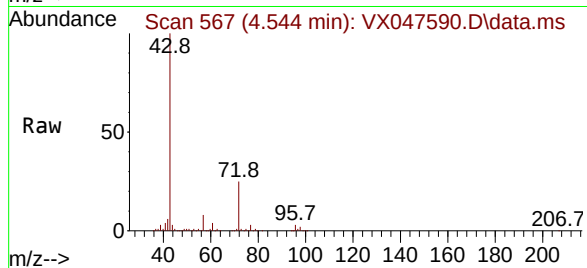
72 24.6 20.1 30.1

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

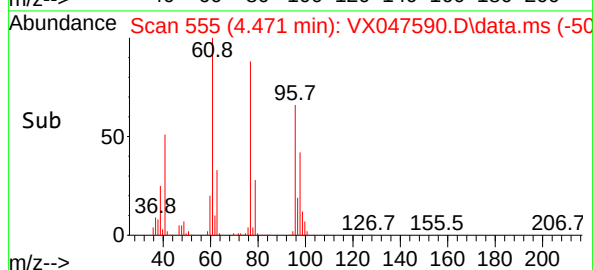
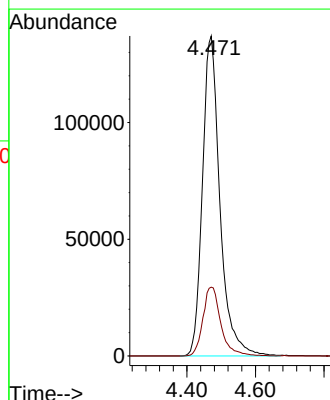
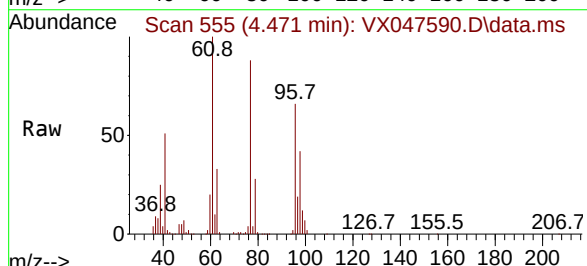
Acq: 16 Sep 2025 12:01

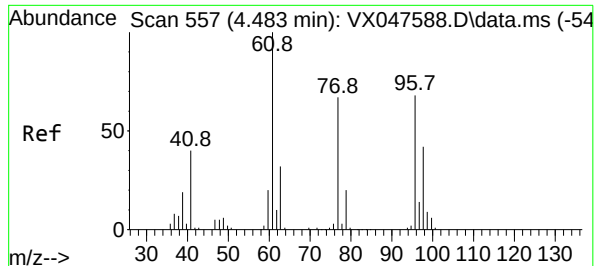
Tgt Ion: 77 Resp: 486890

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

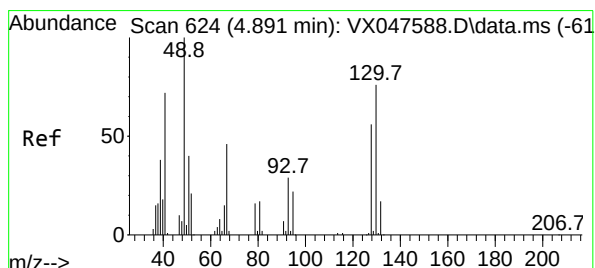
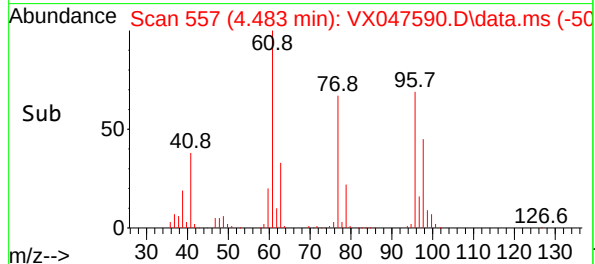
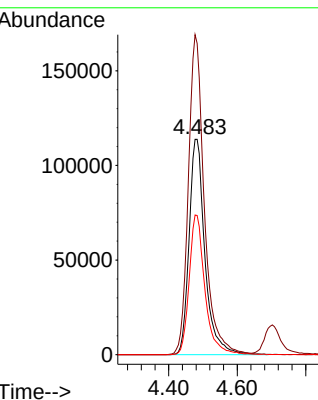
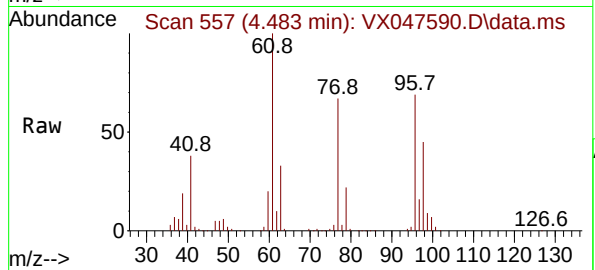
98 64.6 0.0 127.8

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

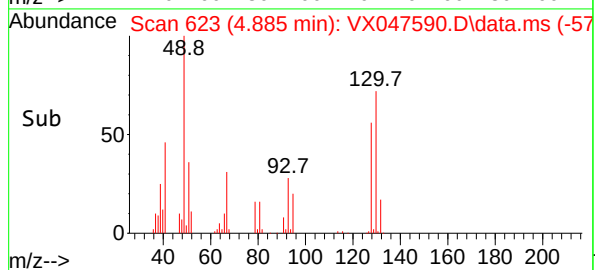
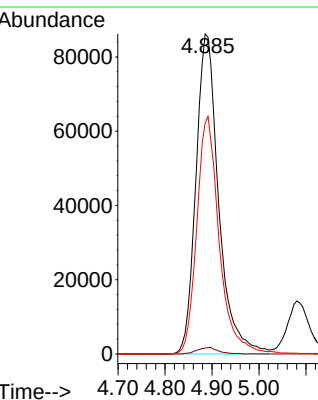
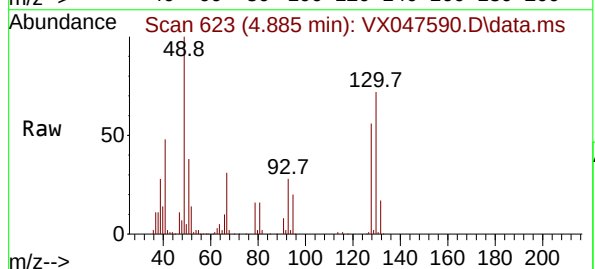
Tgt Ion: 49 Resp: 289548

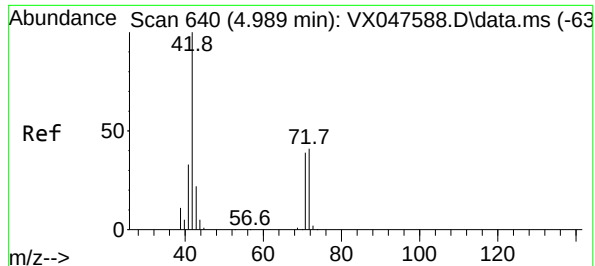
Ion Ratio Lower Upper

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

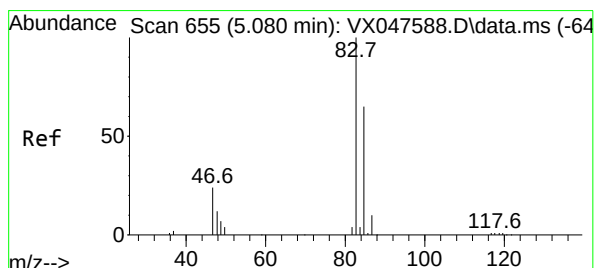
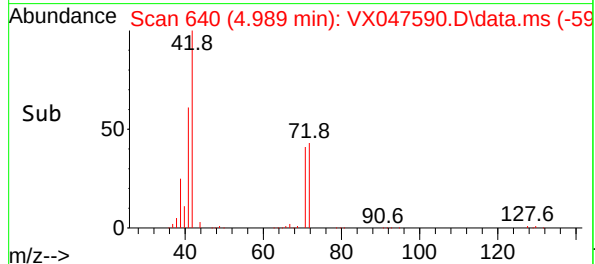
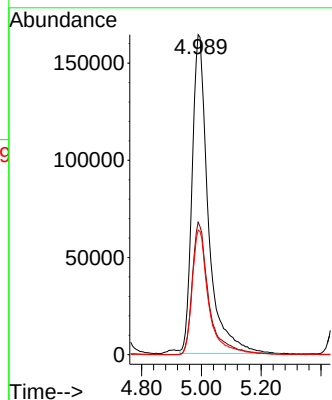
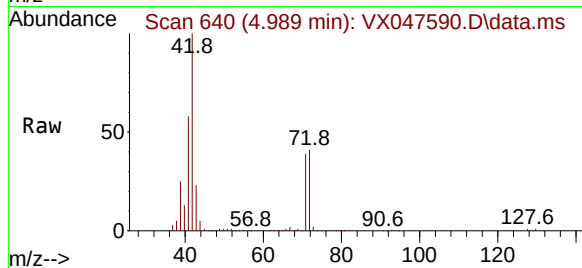
71 39.9 31.9 47.9

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

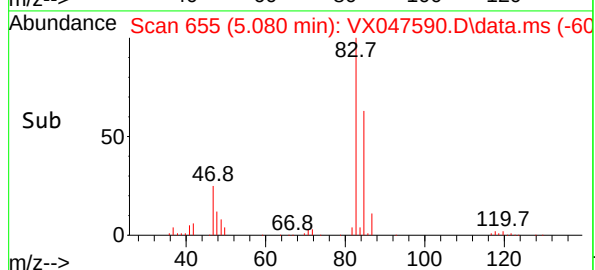
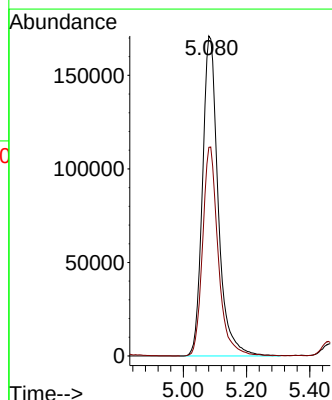
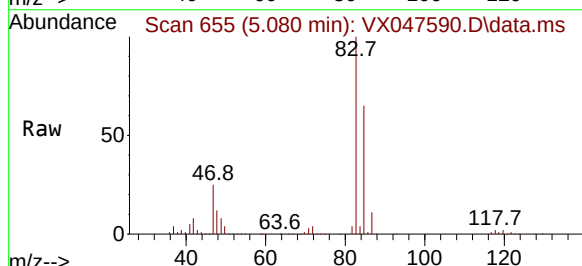
Acq: 16 Sep 2025 12:01

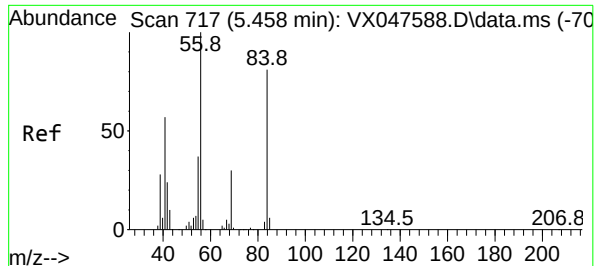
Tgt Ion: 83 Resp: 591709

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

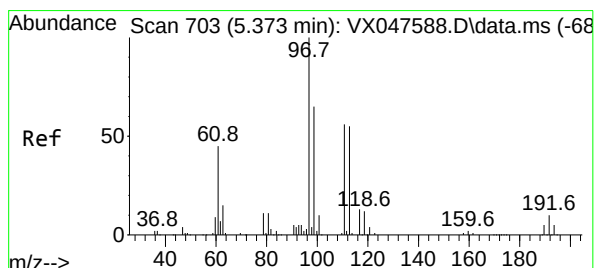
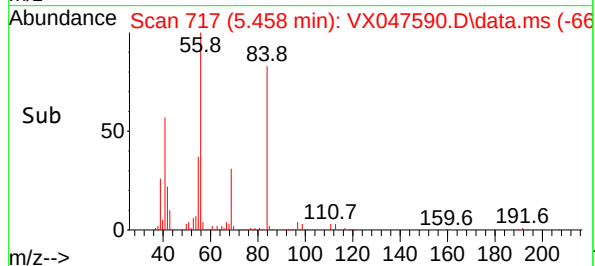
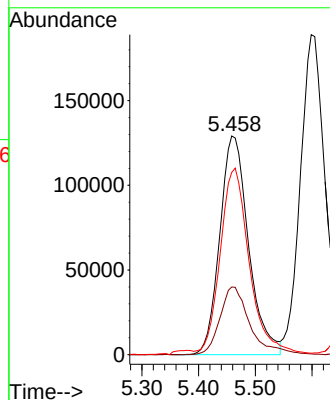
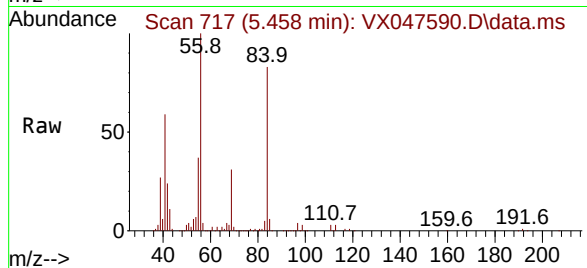
84 81.5 64.6 97.0

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

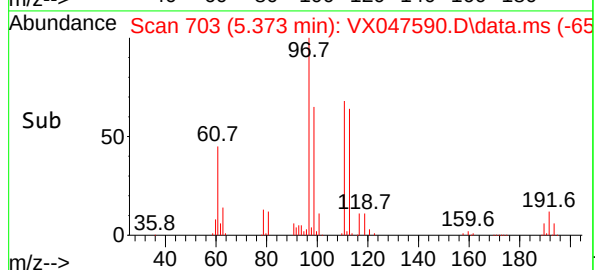
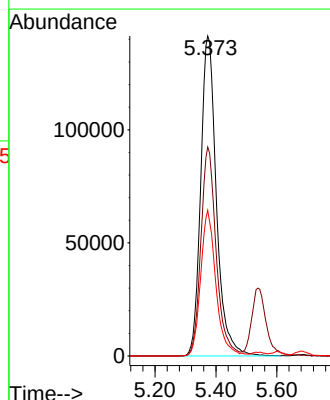
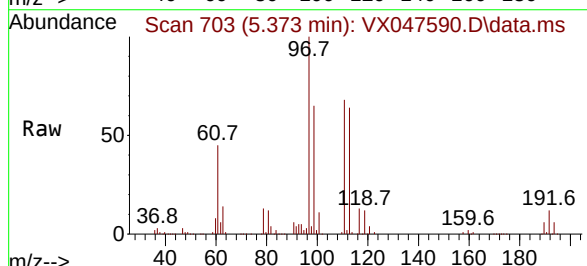
Tgt Ion: 97 Resp: 506654

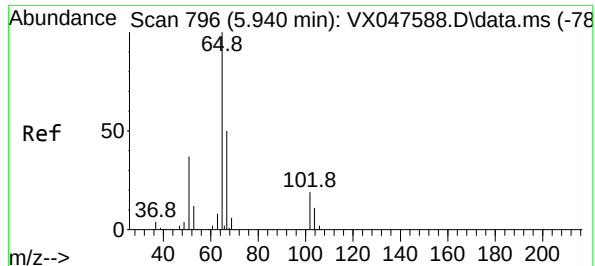
Ion Ratio Lower Upper

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

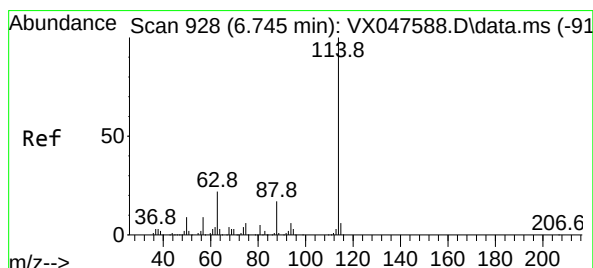
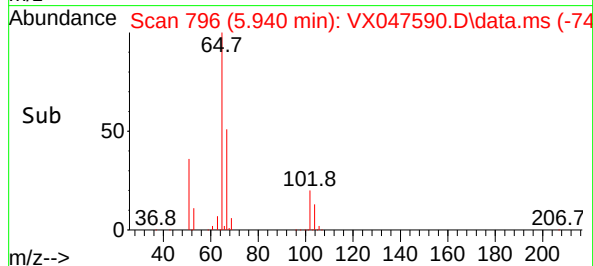
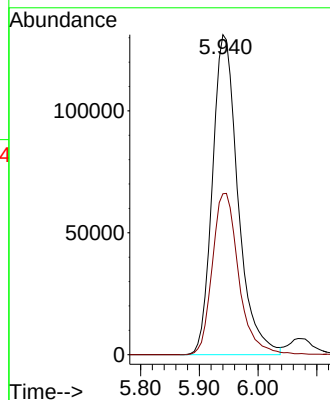
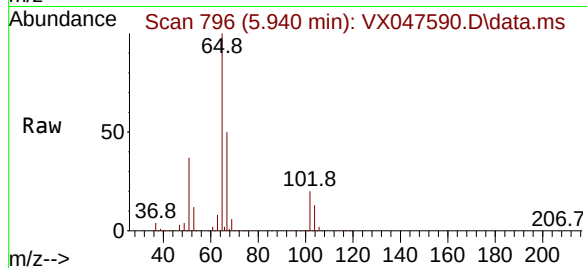
67 52.3 0.0 103.0

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

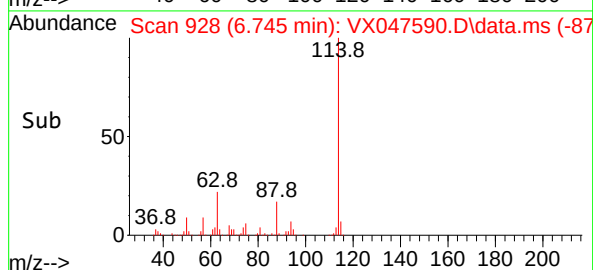
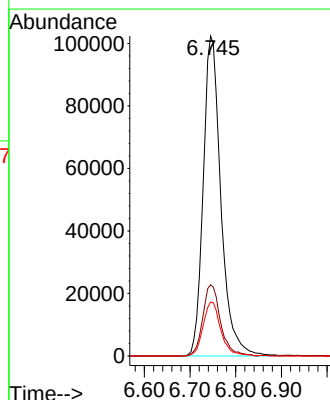
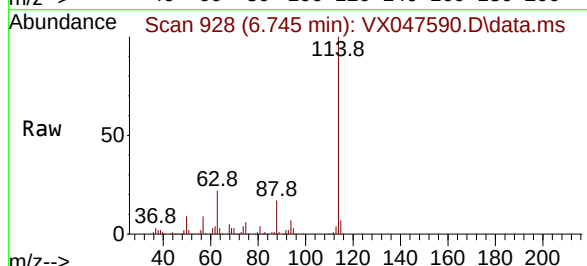
Tgt Ion:114 Resp: 274804

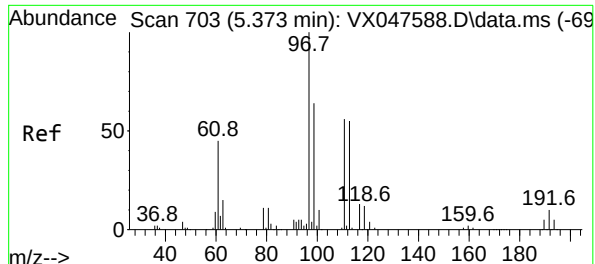
Ion Ratio Lower Upper

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

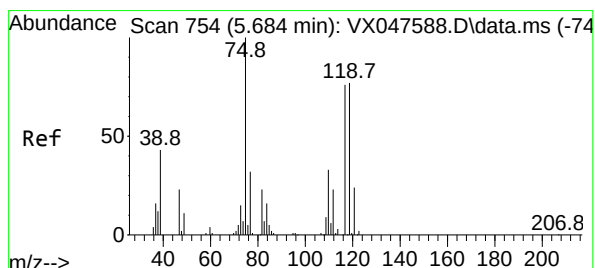
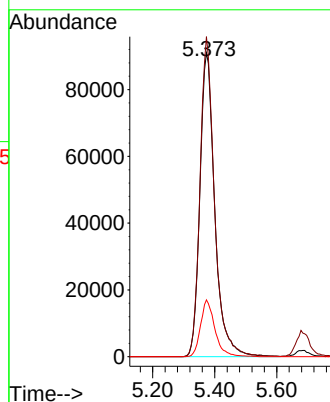
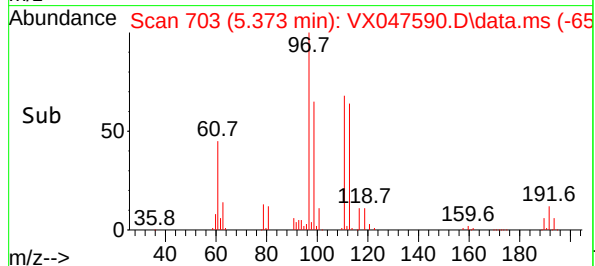
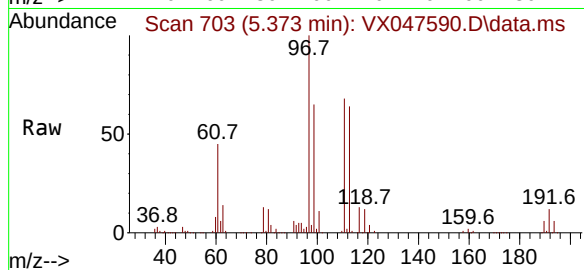
192 18.1 14.2 21.4

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

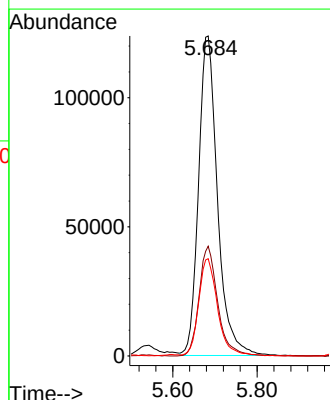
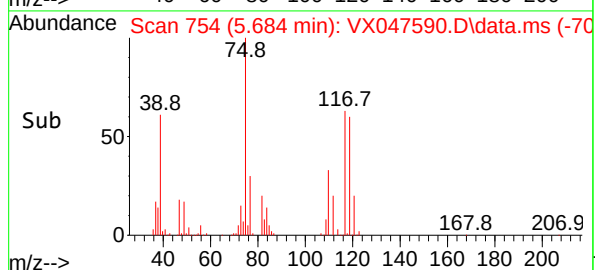
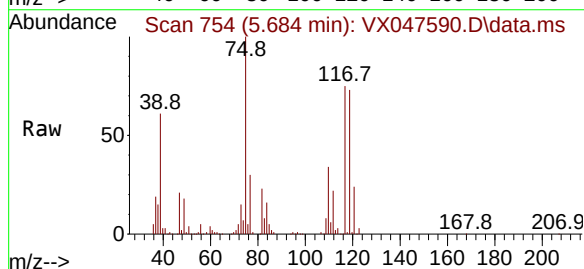
Tgt Ion: 75 Resp: 386601

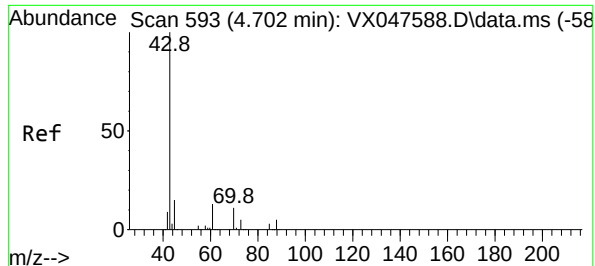
Ion Ratio Lower Upper

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

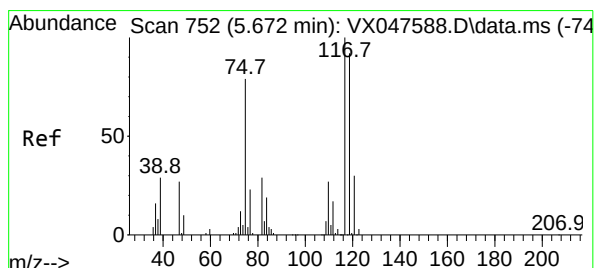
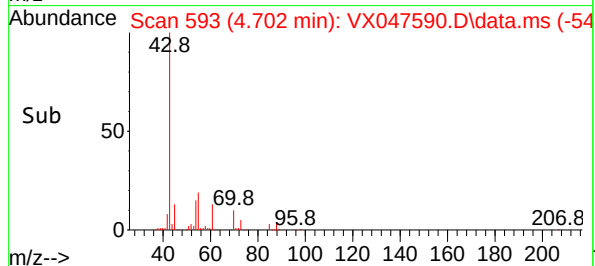
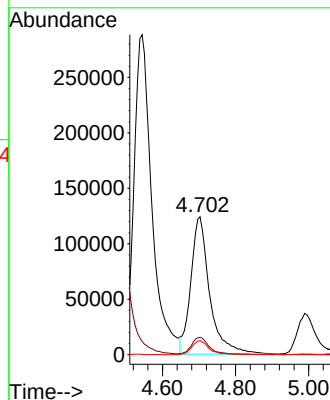
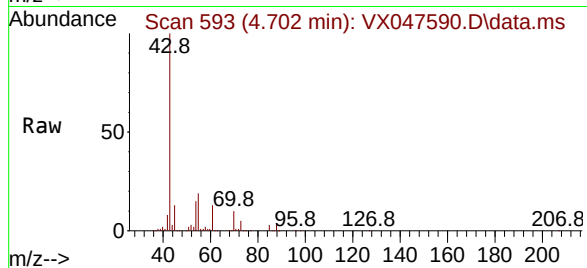
70 9.5 7.9 11.9

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

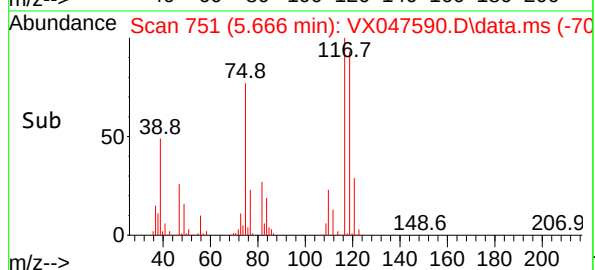
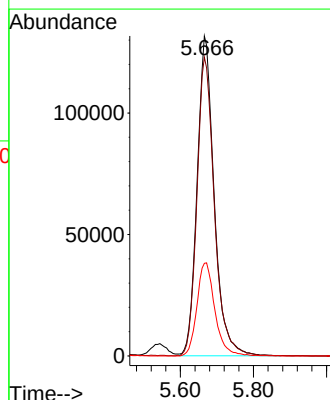
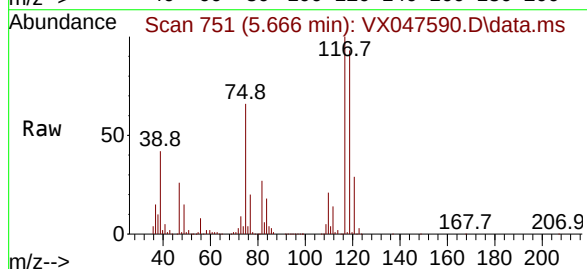
Tgt Ion:117 Resp: 427263

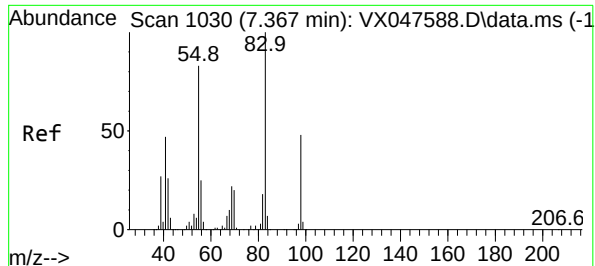
Ion Ratio Lower Upper

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 :

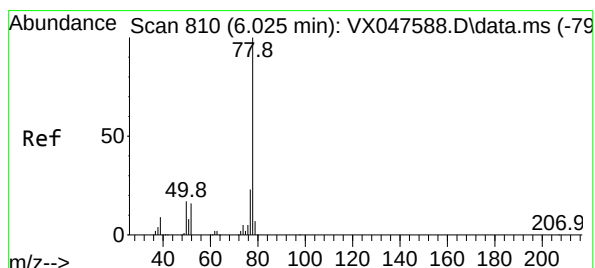
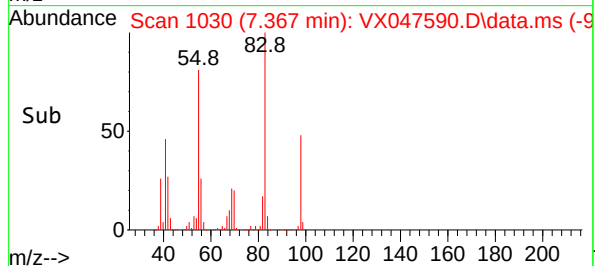
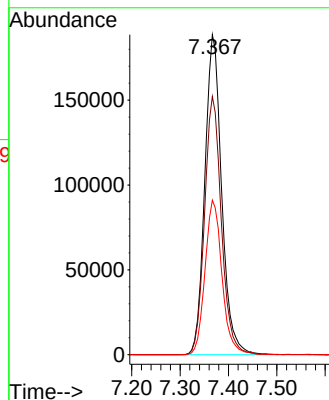
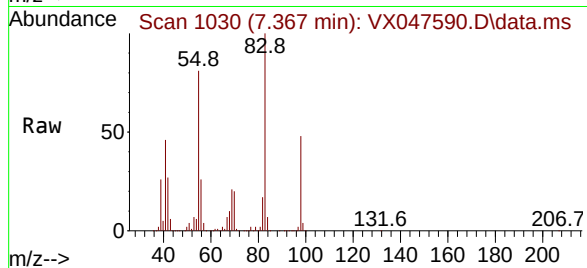
VSTDICC150

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

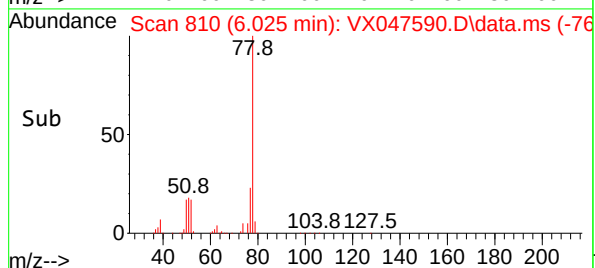
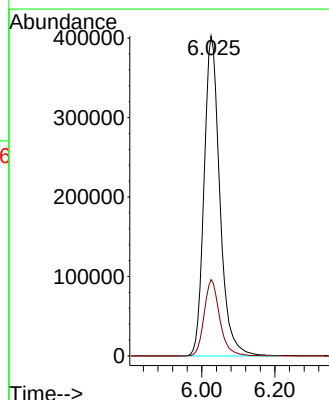
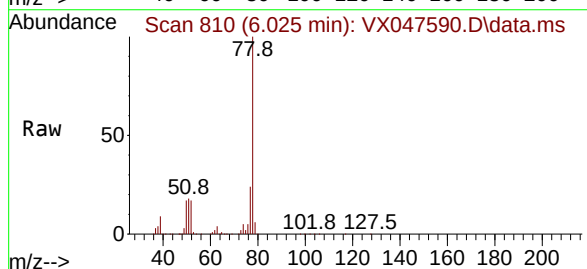
RT: 6.025 min Scan# 810

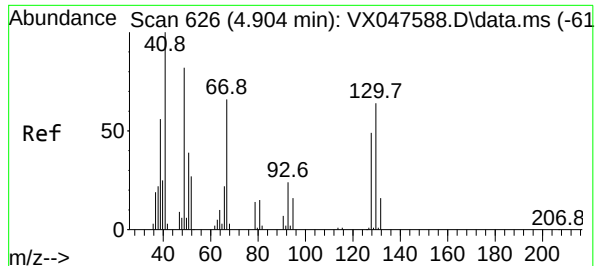
Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

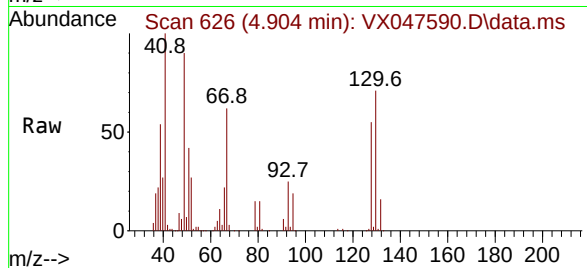
Tgt Ion:	78	Resp:	1202846
Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.8	28.2





#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

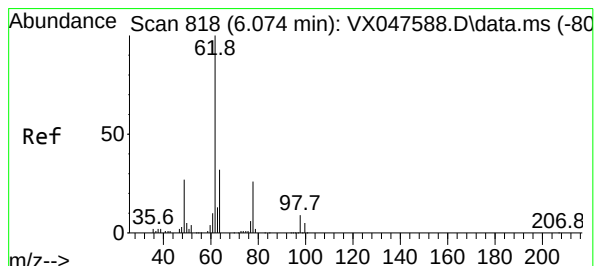
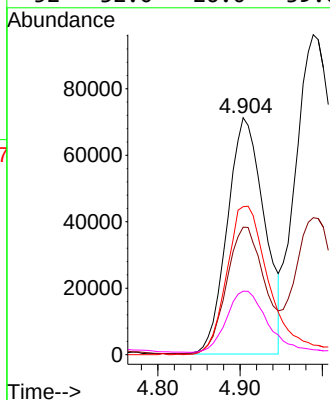
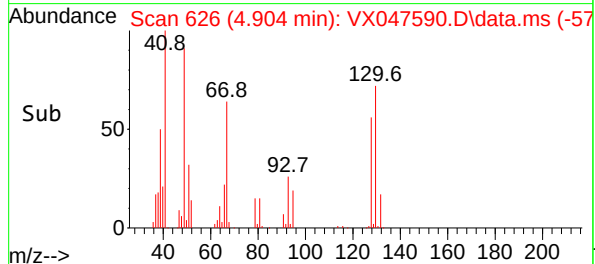
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



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

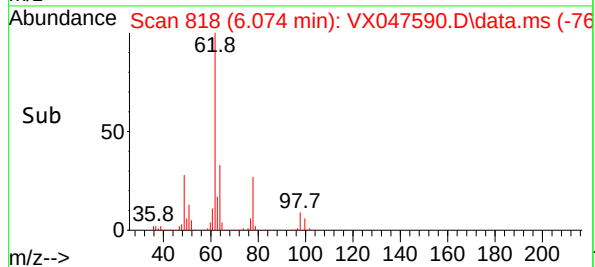
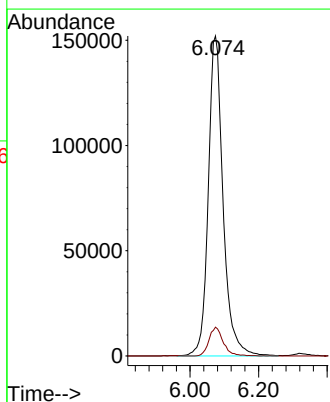
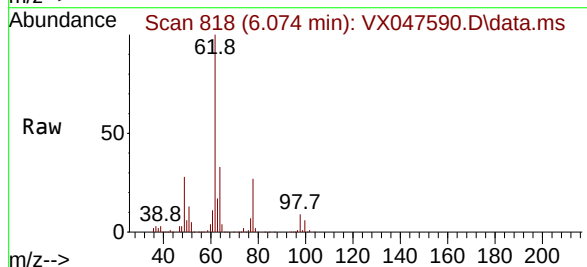
Manual Integrations
APPROVED

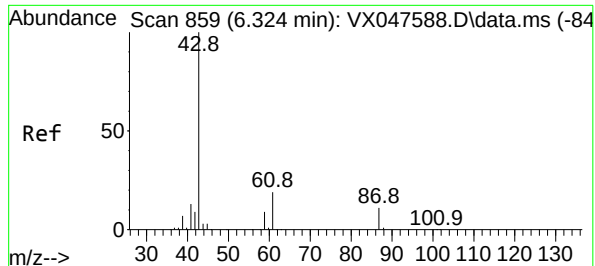
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

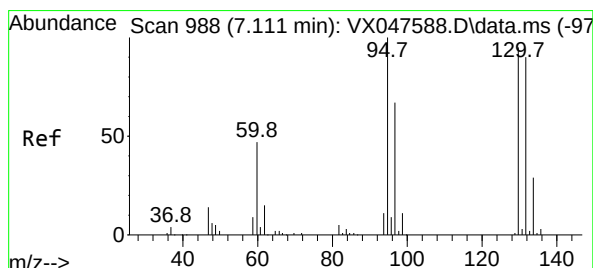
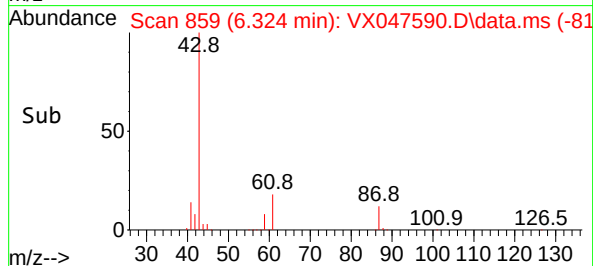
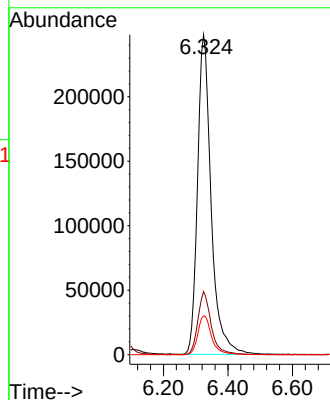
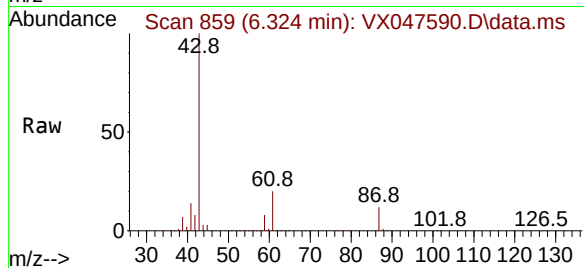
87 12.3 9.6 14.4

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

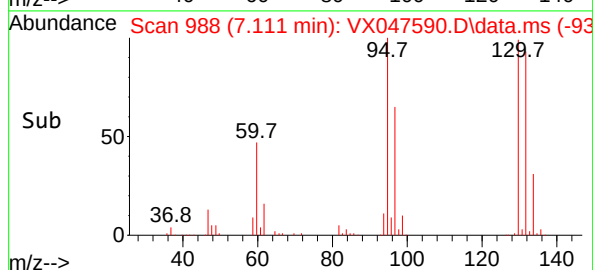
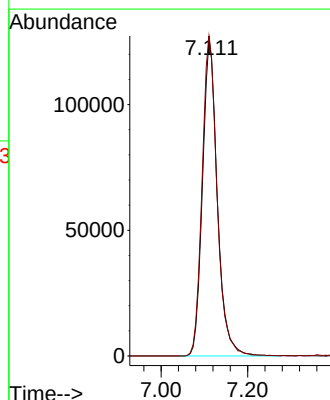
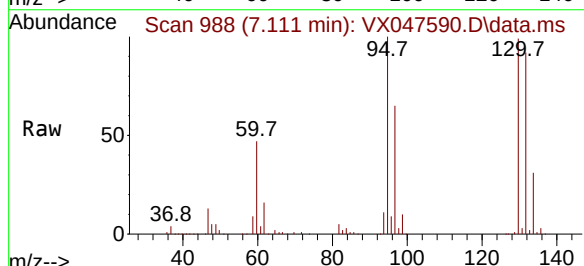
Acq: 16 Sep 2025 12:01

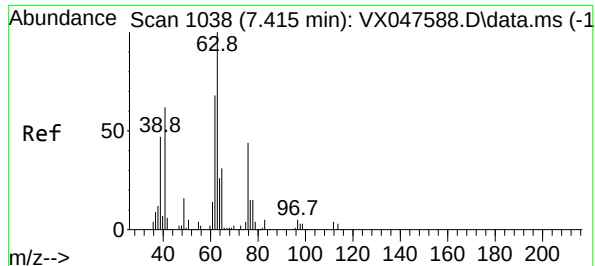
Tgt Ion:130 Resp: 299673

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

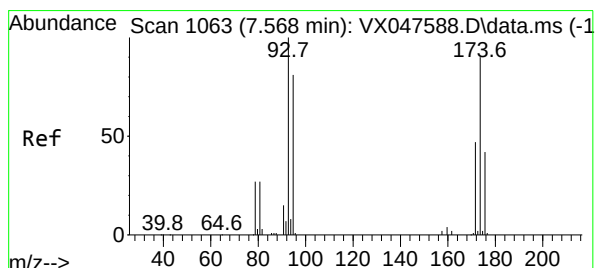
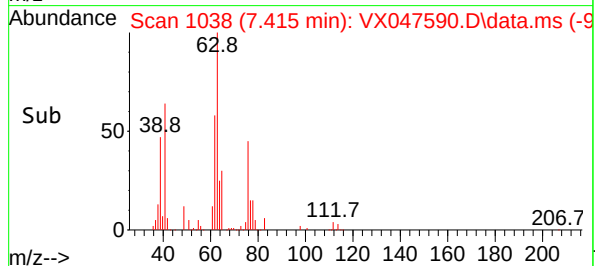
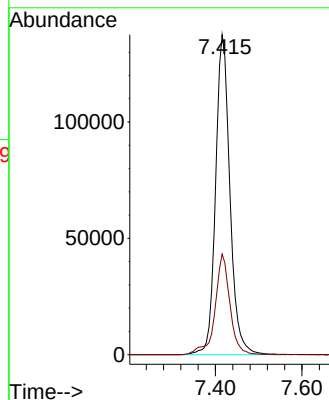
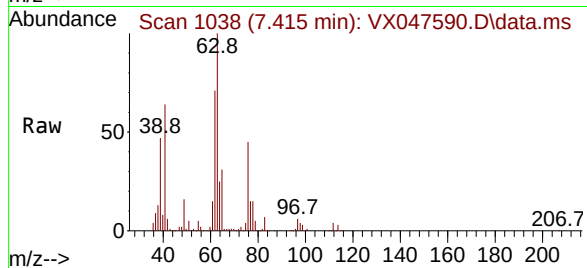
65 31.5 24.7 37.1

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

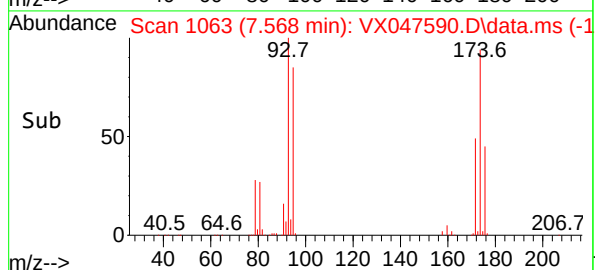
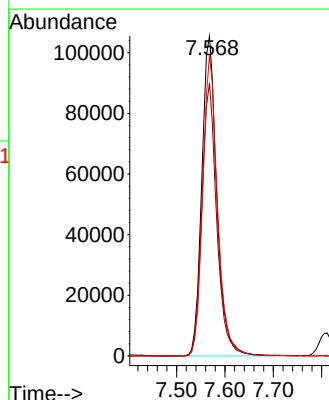
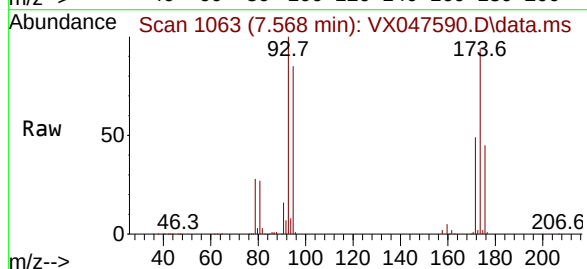
Tgt Ion: 93 Resp: 228550

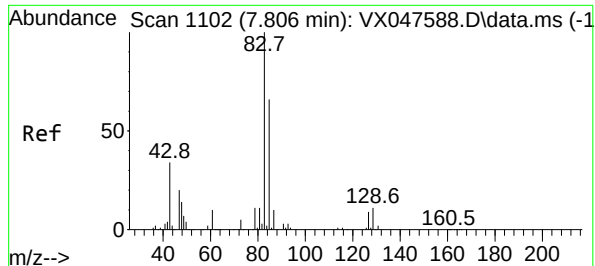
Ion Ratio Lower Upper

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 :

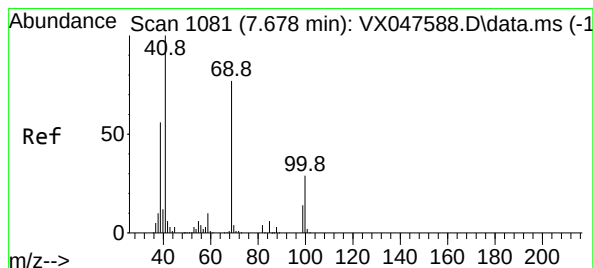
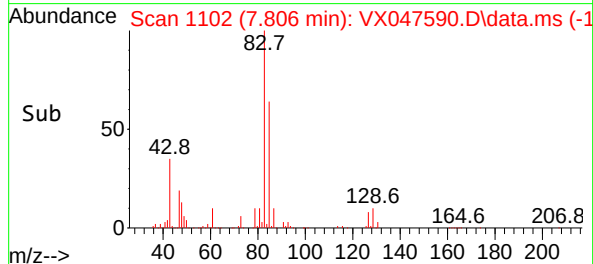
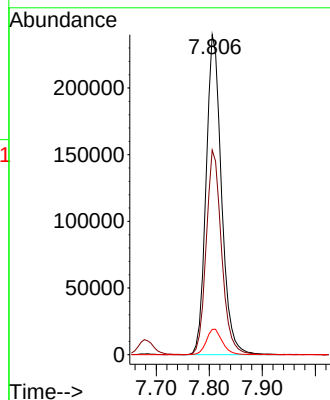
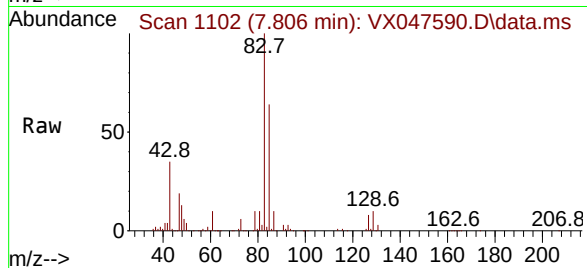
VSTDICC150

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

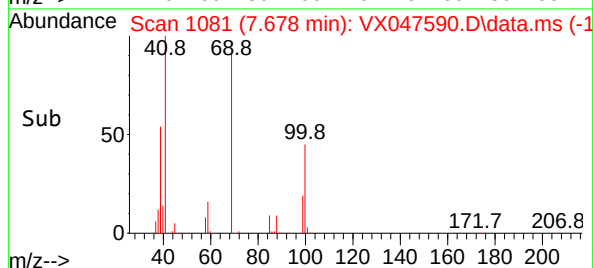
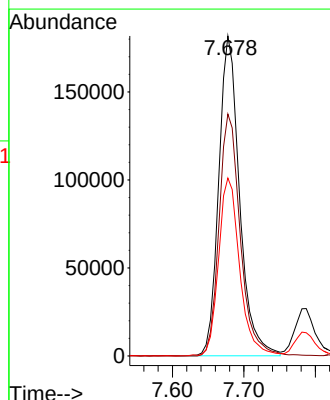
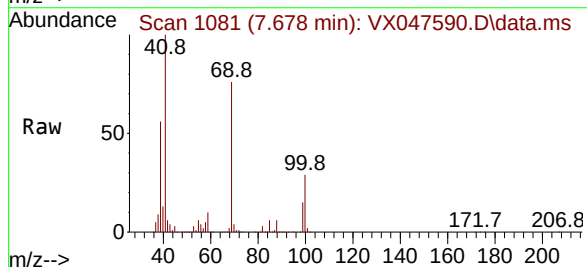
RT: 7.678 min Scan# 1081

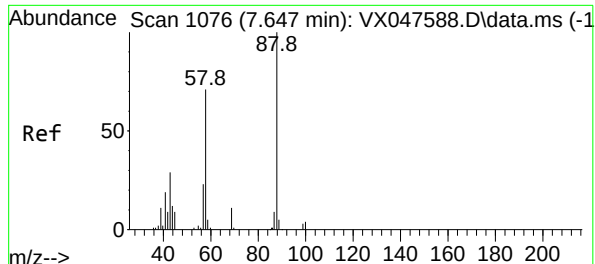
Delta R.T. -0.000 min

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 :

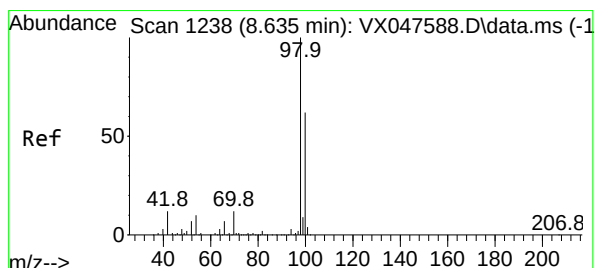
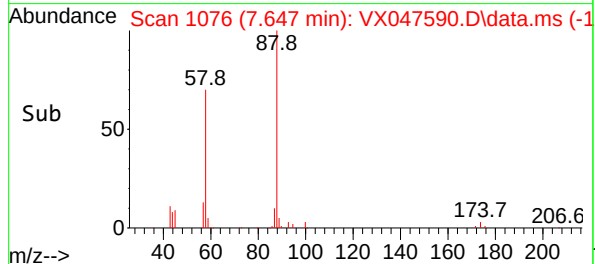
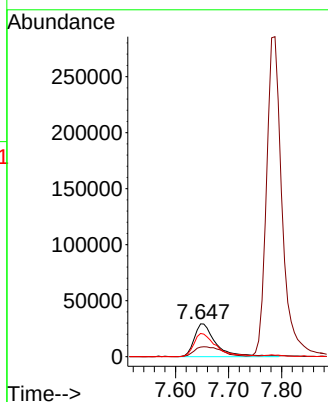
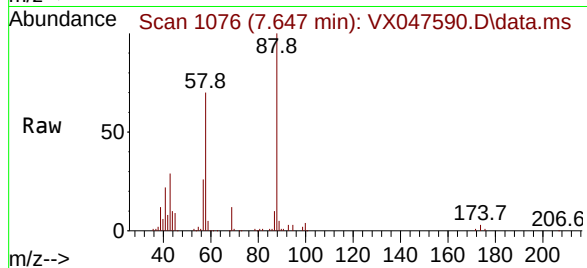
VSTDIC150

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

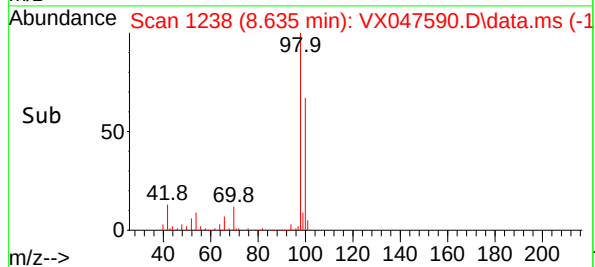
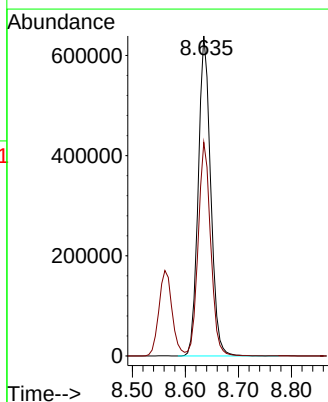
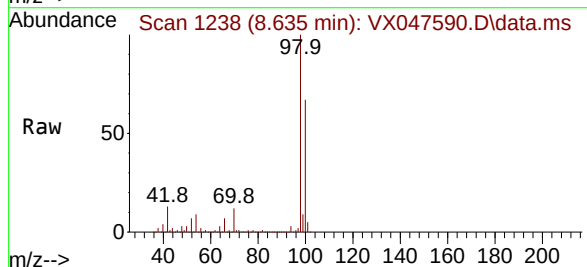
RT: 8.635 min Scan# 1238

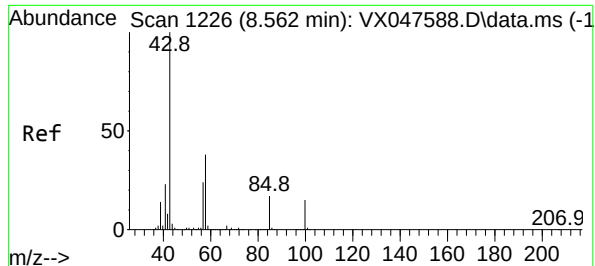
Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

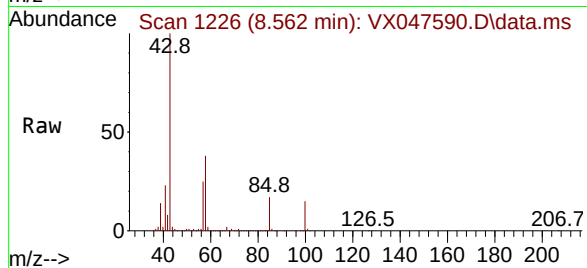
Tgt Ion:	98	Resp:	1041079
Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4





#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

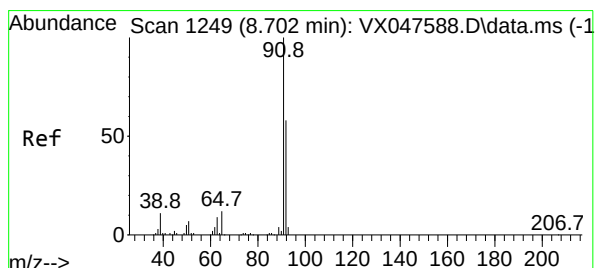
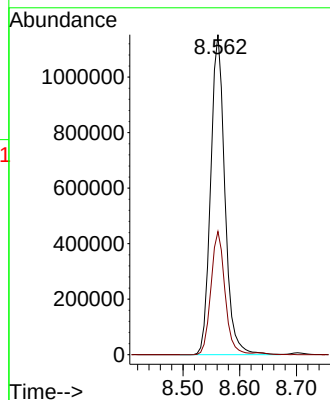
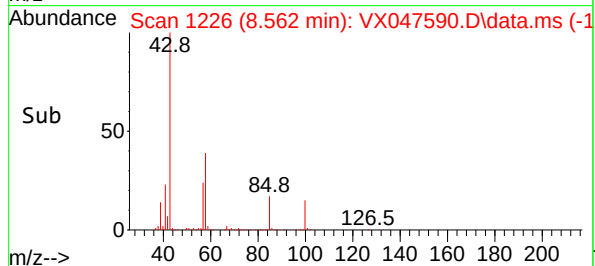
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



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

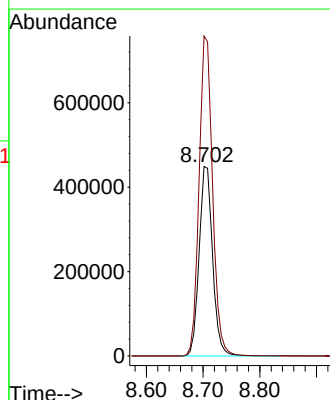
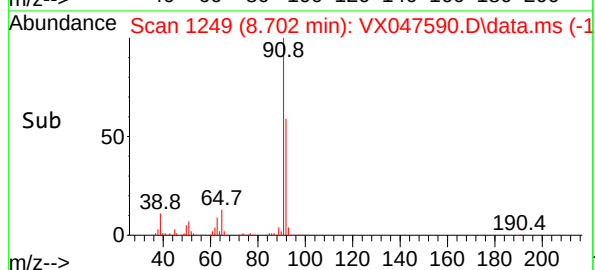
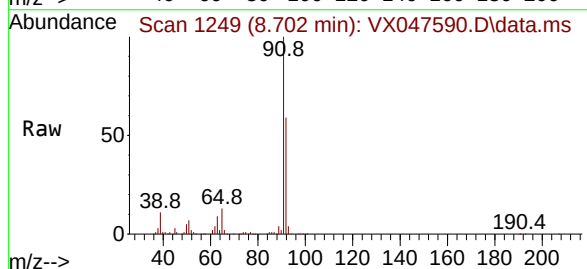
Manual Integrations
APPROVED

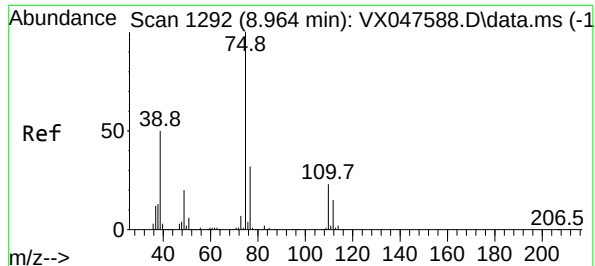
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

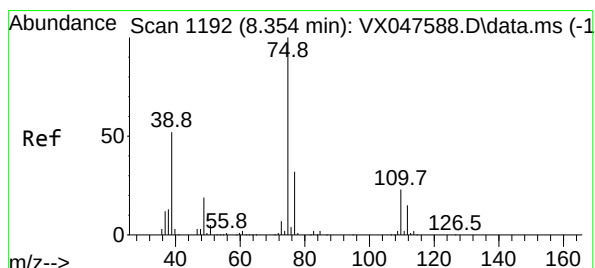
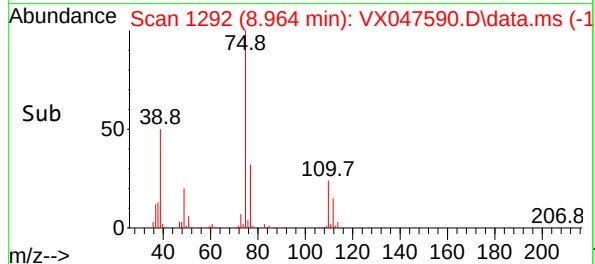
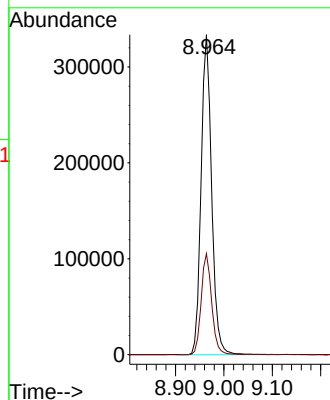
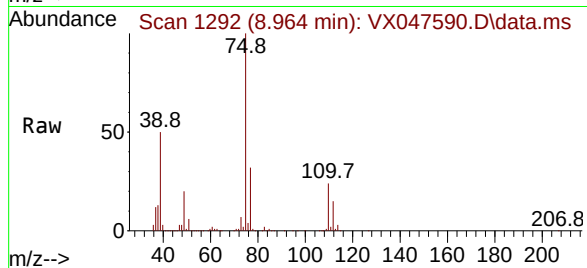
77 31.6 25.4 38.2

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

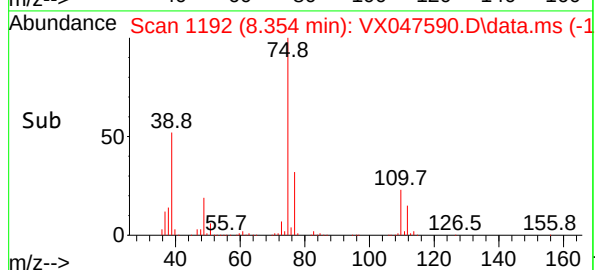
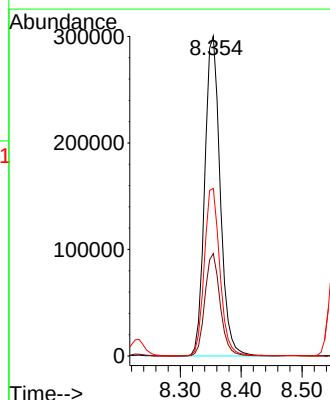
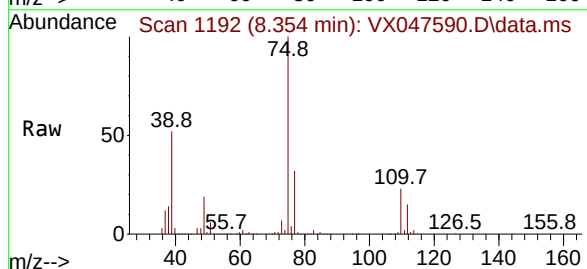
Tgt Ion: 75 Resp: 530566

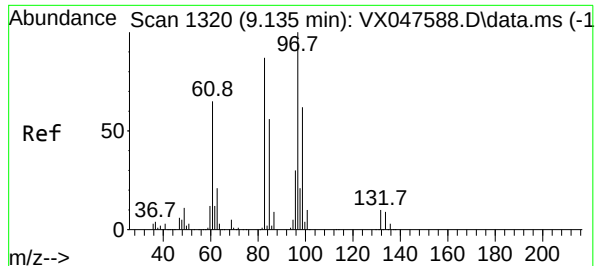
Ion Ratio Lower Upper

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 :

VSTDICC150

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

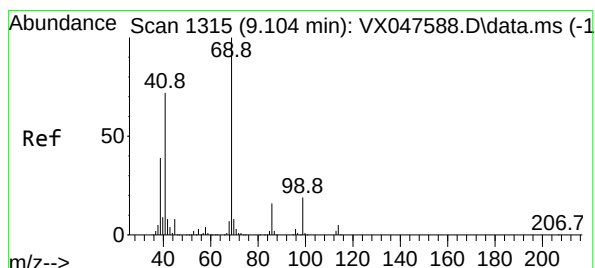
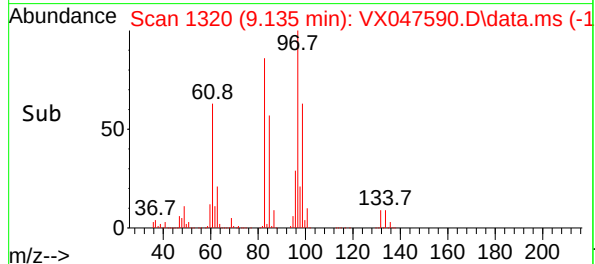
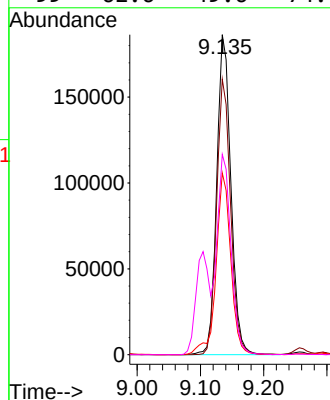
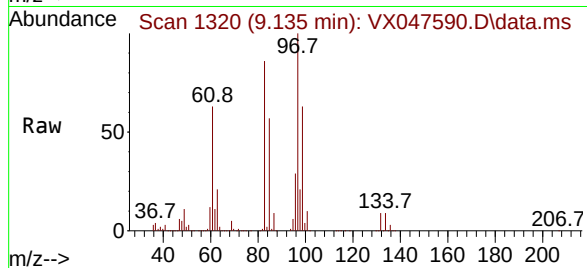
99 62.6 49.6 74.4

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

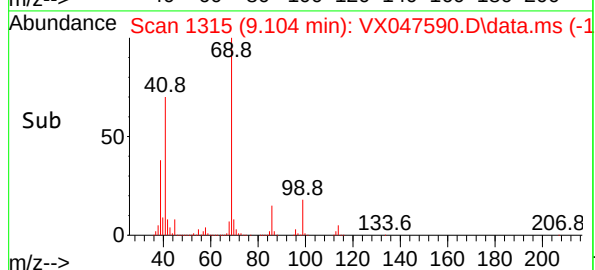
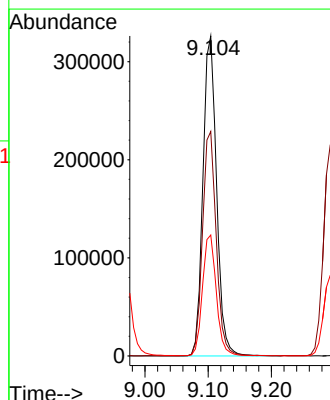
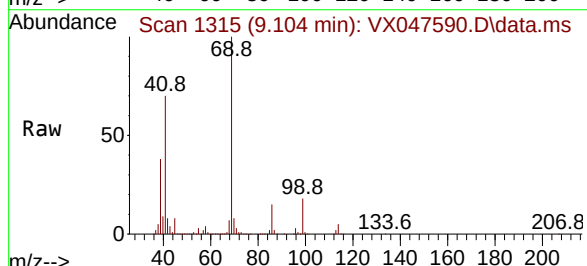
Tgt Ion: 69 Resp: 490623

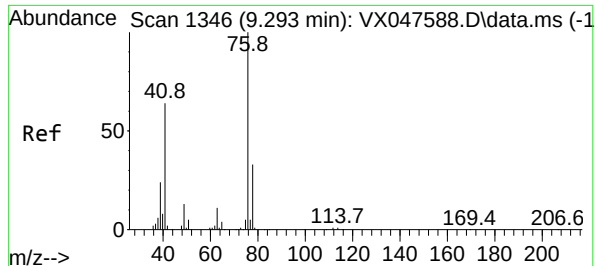
Ion Ratio Lower Upper

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

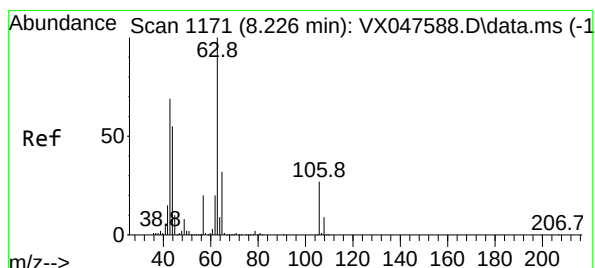
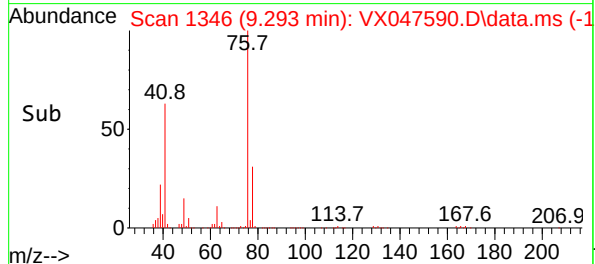
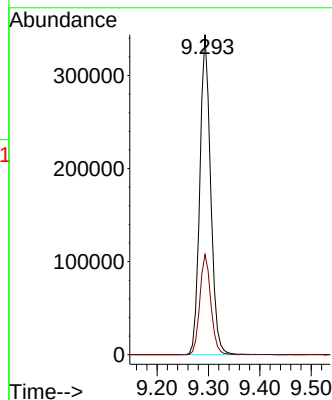
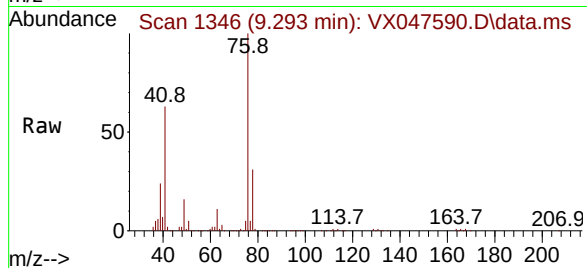
78 31.9 26.2 39.4

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

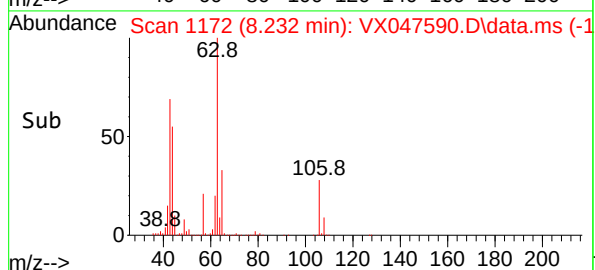
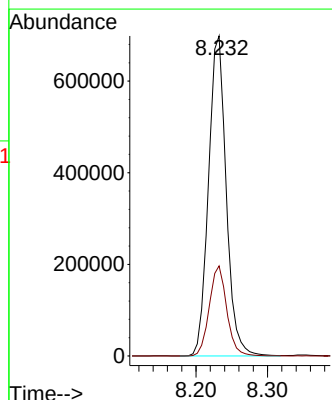
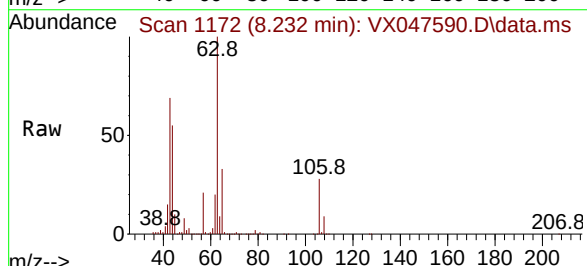
Acq: 16 Sep 2025 12:01

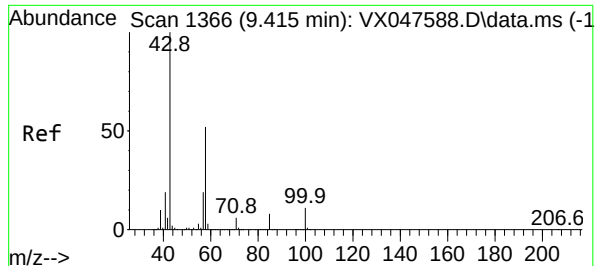
Tgt Ion: 63 Resp: 1202206

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 :

VSTDIC150

Tgt Ion: 43 Resp: 141241

Ion Ratio Lower Upper

43 100

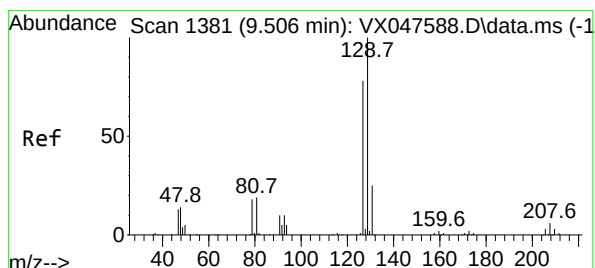
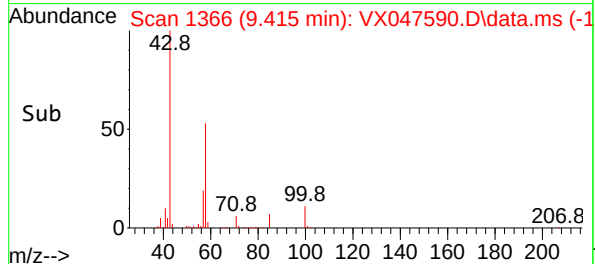
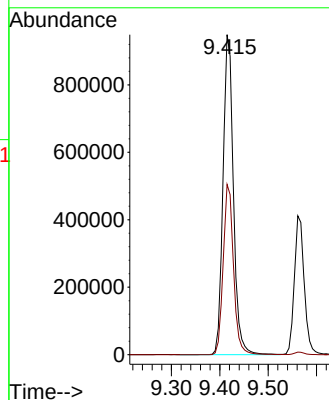
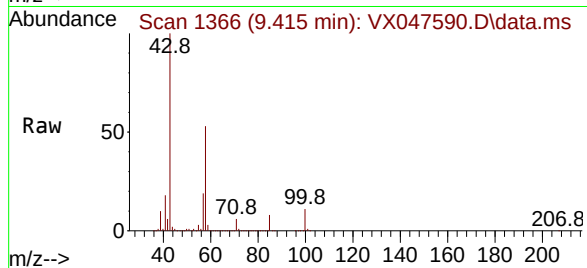
58 52.9 26.1 78.2

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

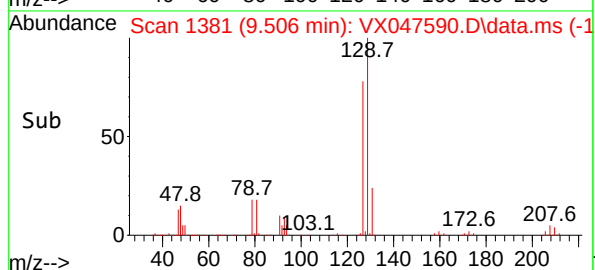
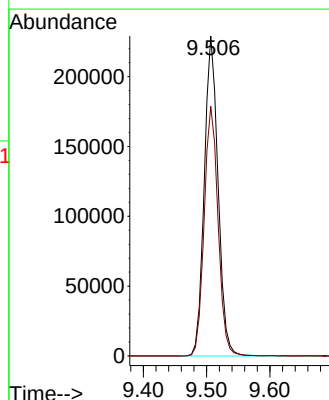
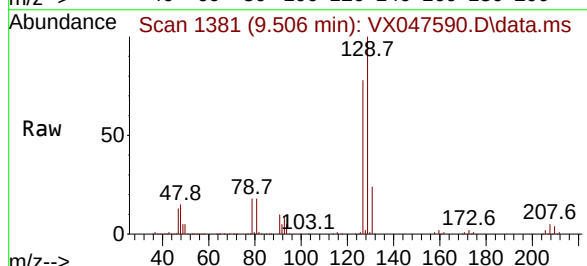
Acq: 16 Sep 2025 12:01

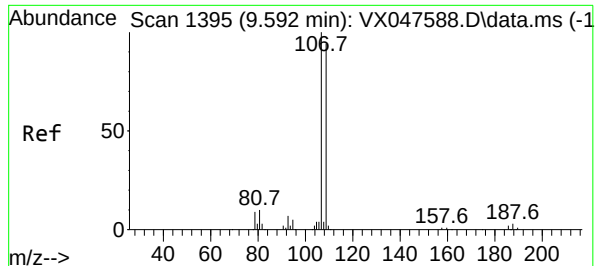
Tgt Ion:129 Resp: 347748

Ion Ratio Lower Upper

129 100

127 78.7 38.4 115.2





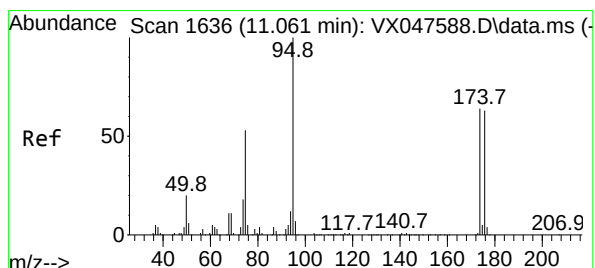
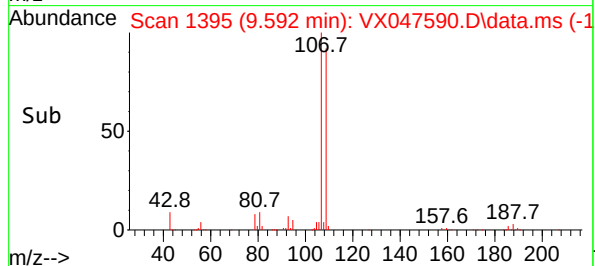
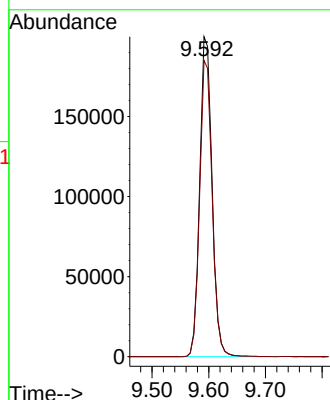
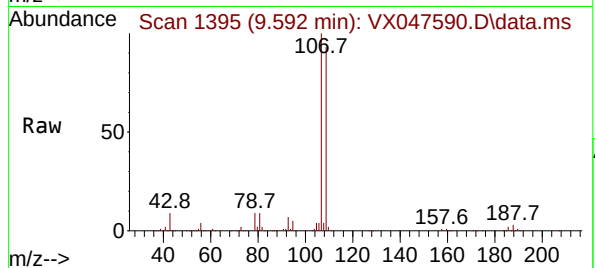
#61
1,2-Dibromoethane
Concen: 152.949 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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

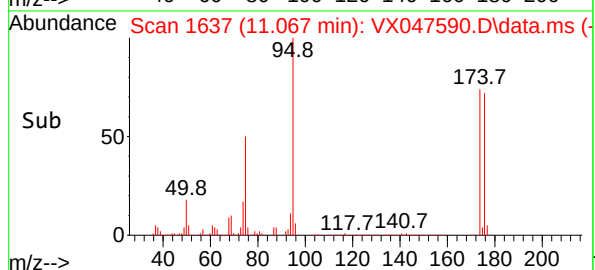
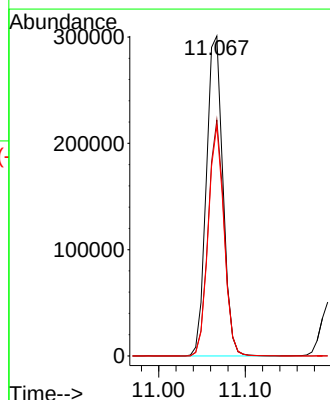
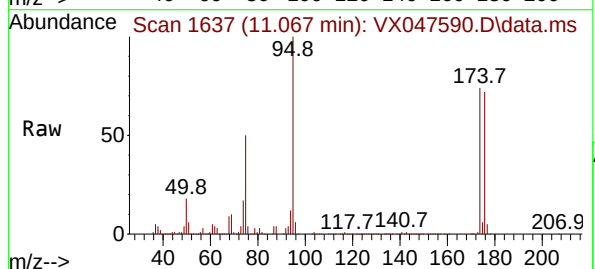
Manual Integrations
APPROVED

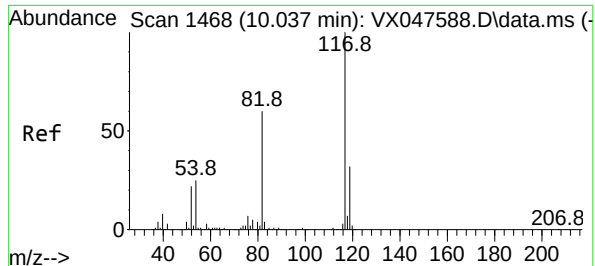
Reviewed By : John Carlone 09/17/2025
Supervised By : Mahesh Dadoda 09/18/2025



#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

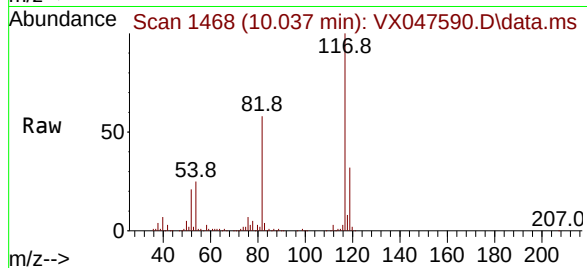
Tgt Ion: 95 Resp: 399386
Ion Ratio Lower Upper
95 100
174 70.7 0.0 141.6
176 68.5 0.0 138.4





#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

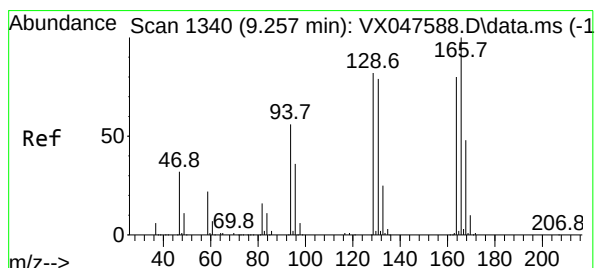
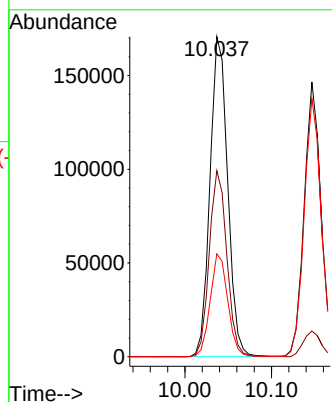
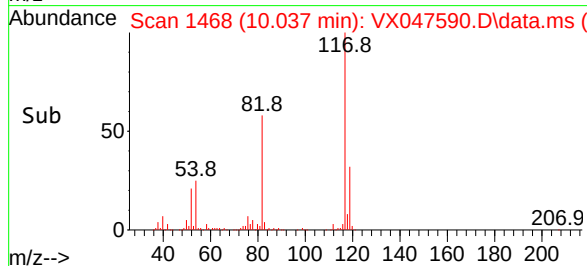
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



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

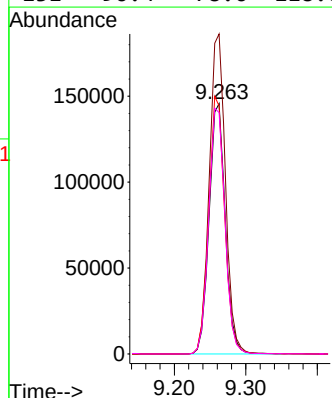
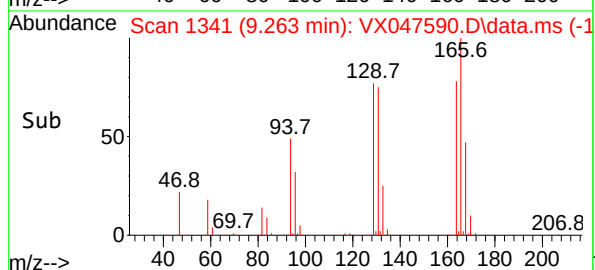
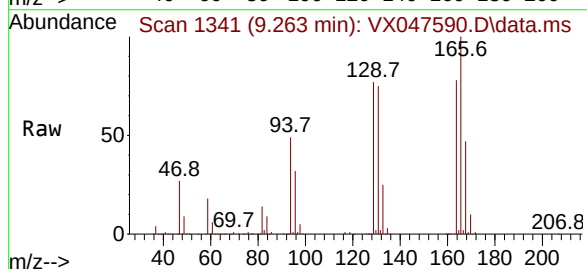
Manual Integrations
APPROVED

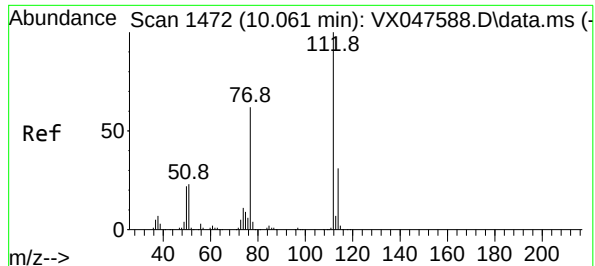
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

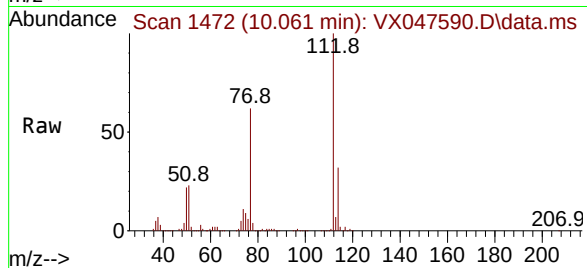
Tgt Ion:164 Resp: 227931
Ion Ratio Lower Upper
164 100
166 127.8 100.2 150.2
129 99.0 81.8 122.6
131 96.4 78.6 118.0





#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

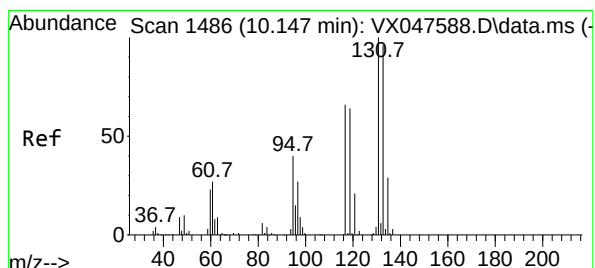
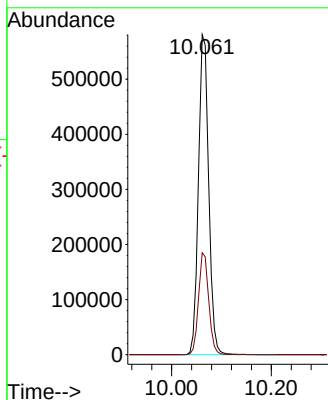
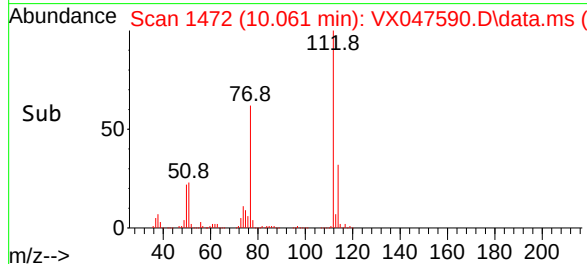
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



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

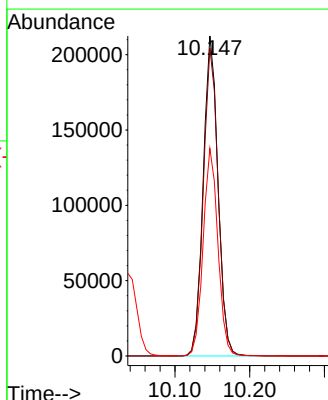
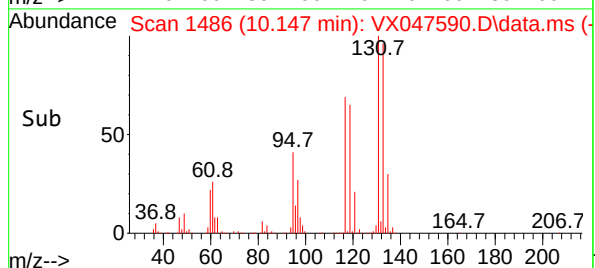
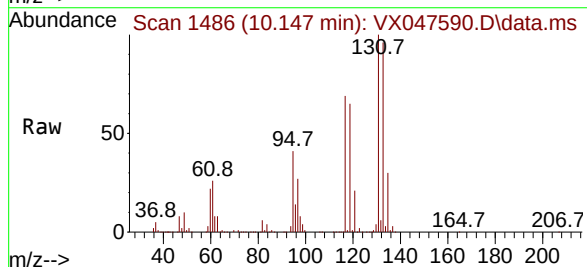
Manual Integrations
APPROVED

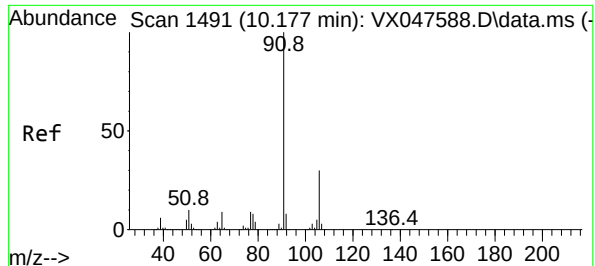
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

VSTDICC150

Tgt Ion: 91 Resp: 1431554

Ion Ratio Lower Upper

91 100

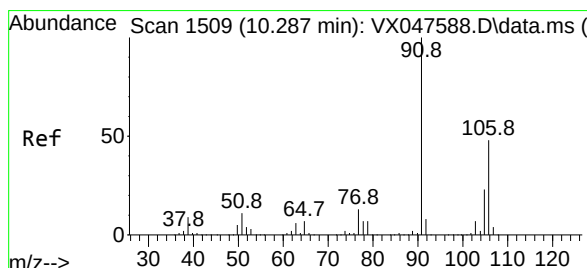
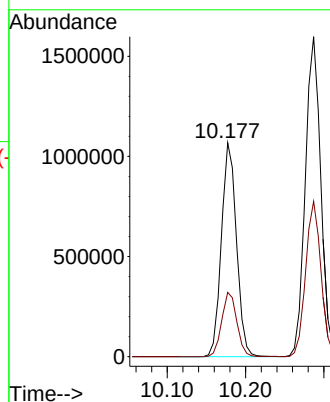
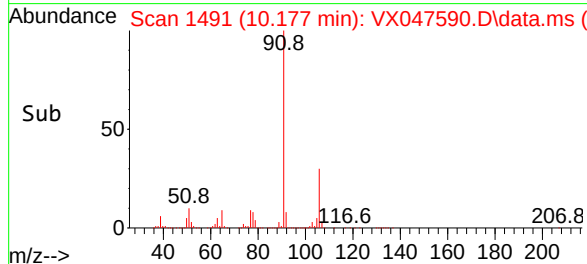
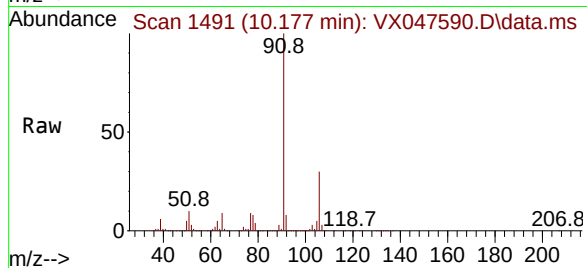
106 30.0 24.3 36.5

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

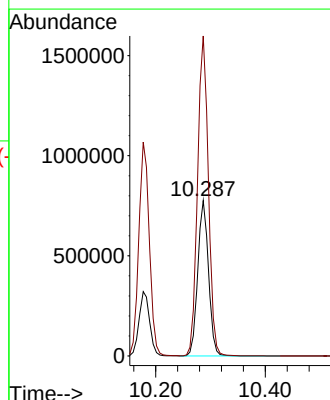
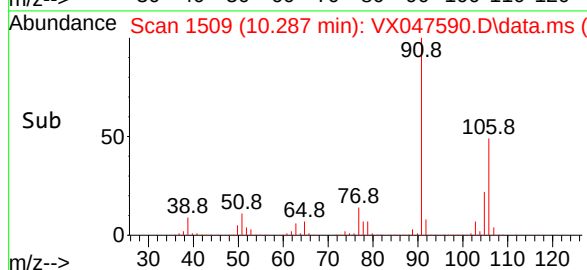
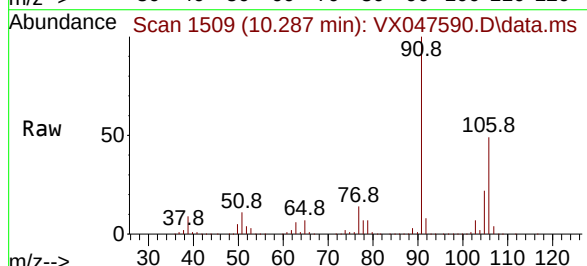
Acq: 16 Sep 2025 12:01

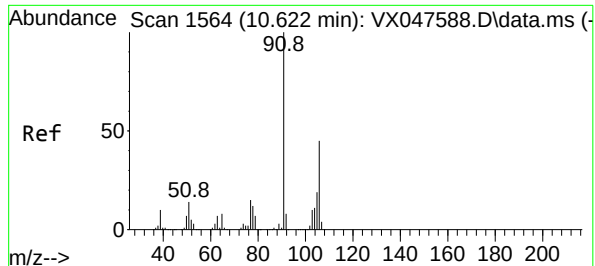
Tgt Ion:106 Resp: 1059776

Ion Ratio Lower Upper

106 100

91 208.0 167.8 251.8





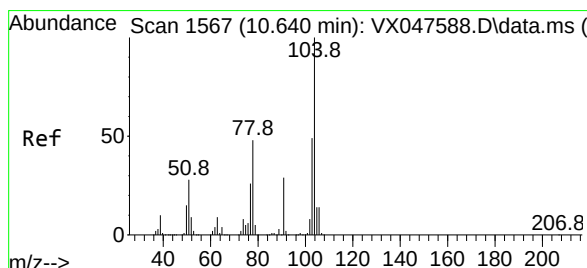
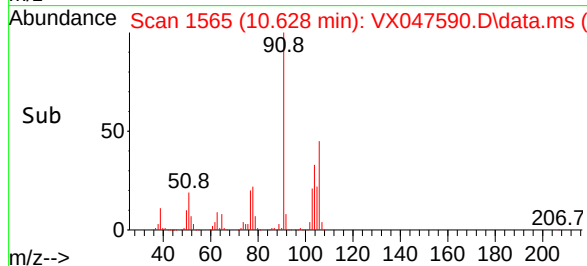
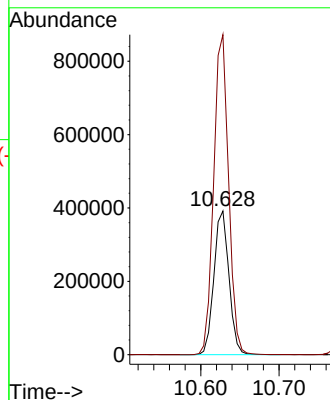
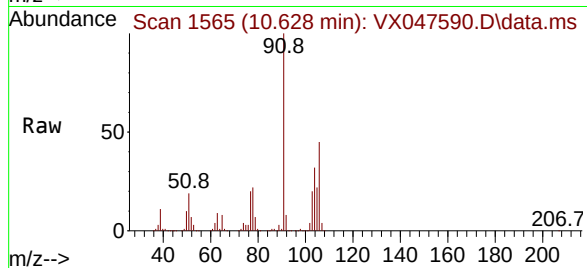
#69
o-Xylene
Concen: 152.920 ug/l
RT: 10.628 min Scan# 1564
Delta R.T. 0.006 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

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

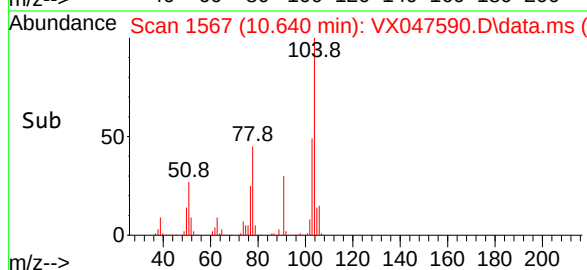
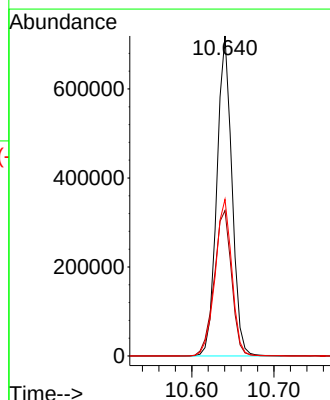
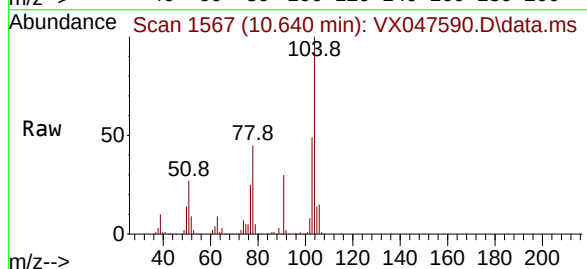
Manual Integrations
APPROVED

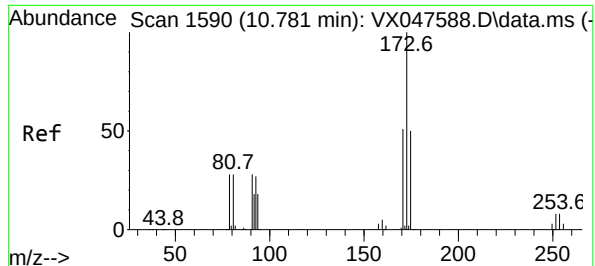
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

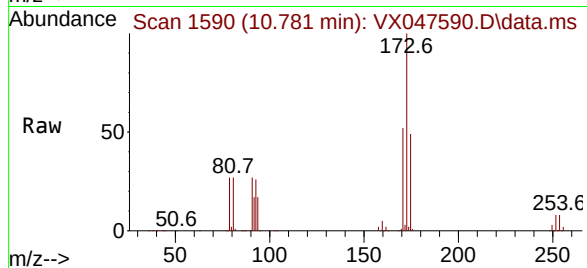
Tgt Ion:104 Resp: 917532
Ion Ratio Lower Upper
104 100
78 52.4 43.1 64.7
103 54.0 43.1 64.7





#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

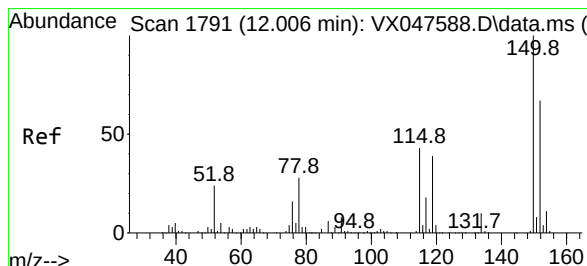
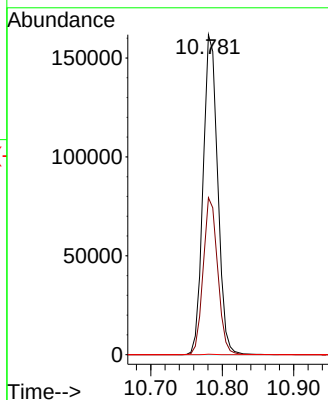
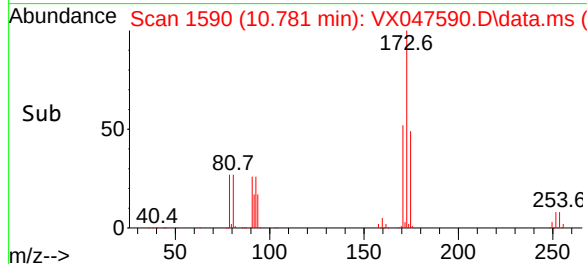
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



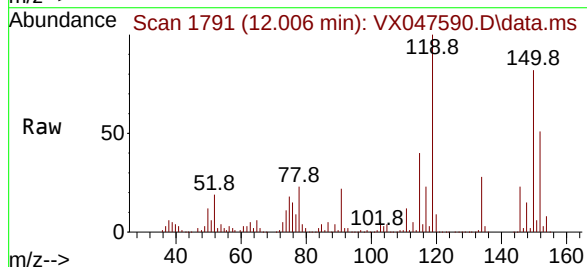
Tgt Ion:173 Resp: 22968
Ion Ratio Lower Upper
173 100
175 48.7 24.9 74.6
254 0.1 0.1 0.1

Manual Integrations
APPROVED

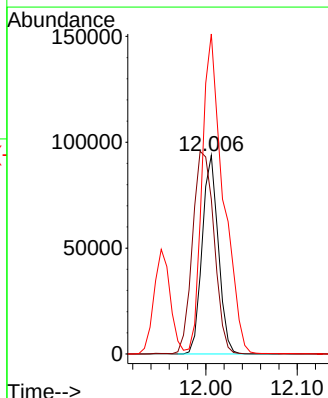
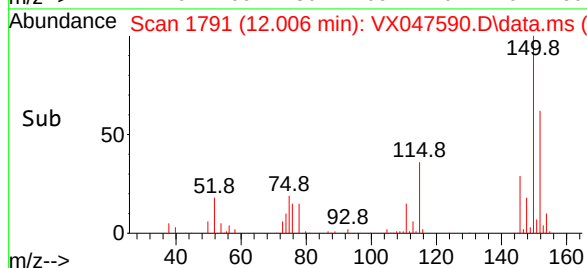
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

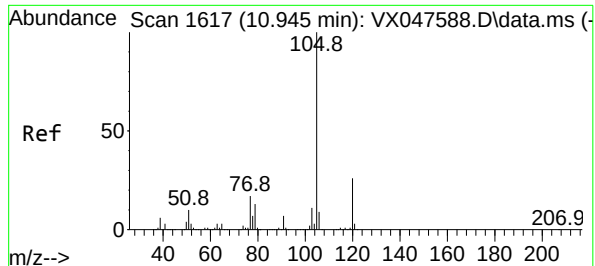


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01



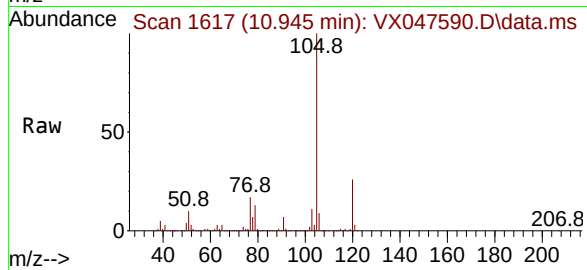
Tgt Ion:152 Resp: 114743
Ion Ratio Lower Upper
152 100
115 136.9 44.9 134.5#
150 212.9 0.0 352.0





#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

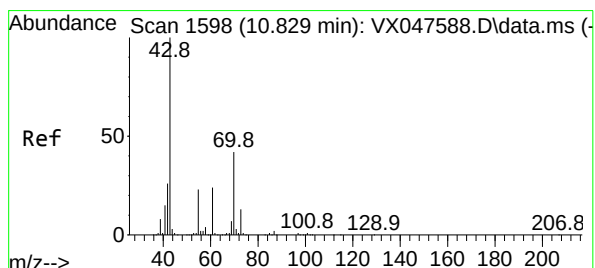
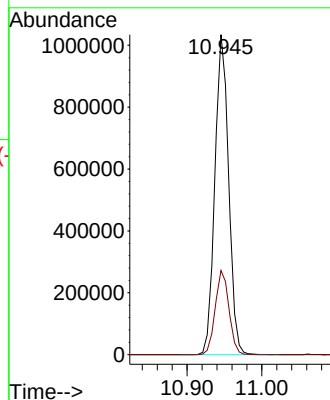
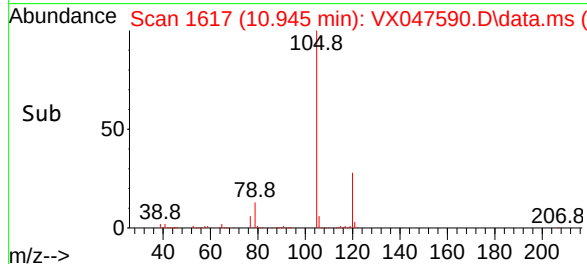
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 105 Resp: 1321409
Ion Ratio Lower Upper
105 100
120 26.2 12.8 38.4

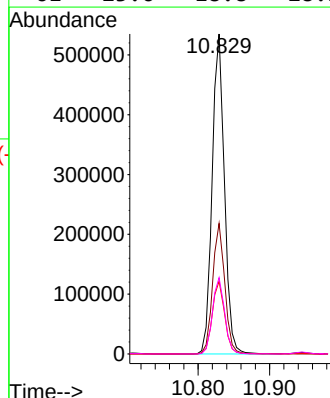
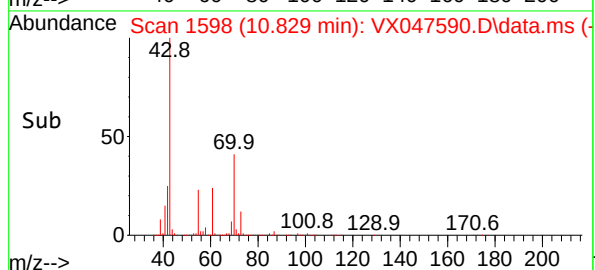
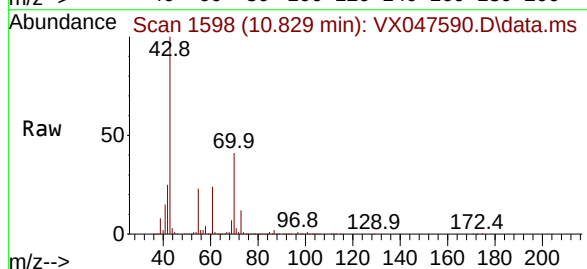
Manual Integrations
APPROVED

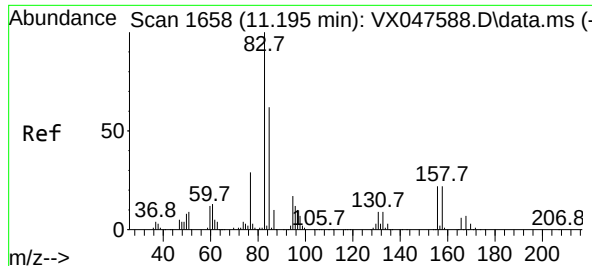
Reviewed By : John Carlone 09/17/2025
Supervised By : Mahesh Dadoda 09/18/2025



#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





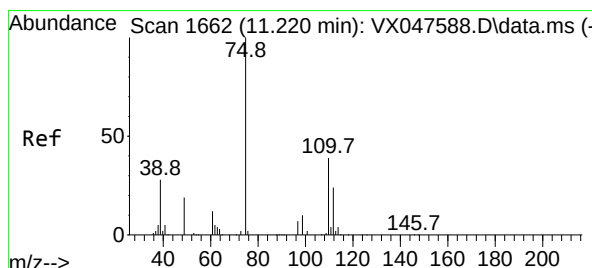
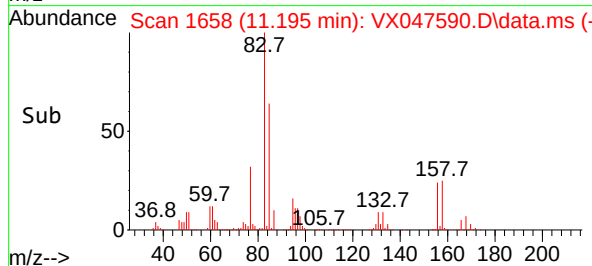
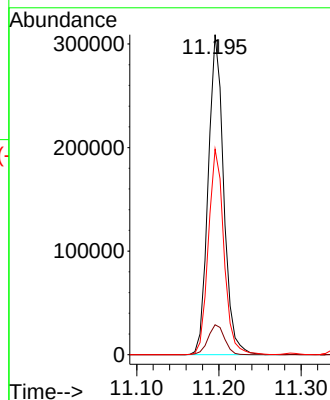
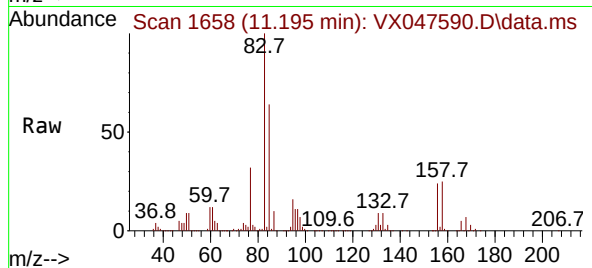
#75
1,1,2,2-Tetrachloroethane
Concen: 153.035 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

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

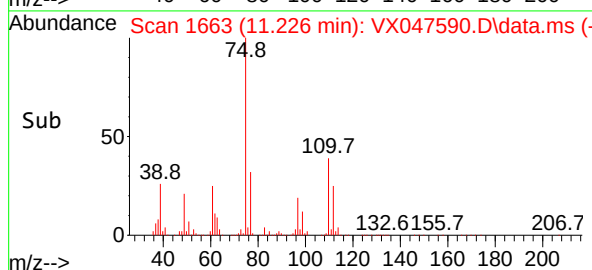
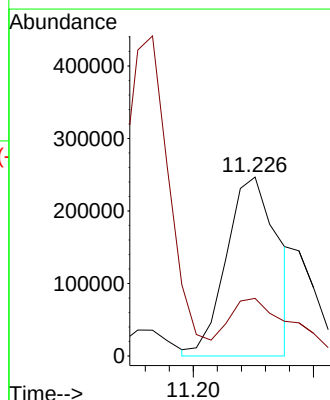
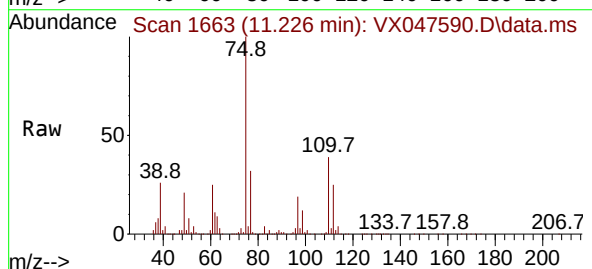
Manual Integrations
APPROVED

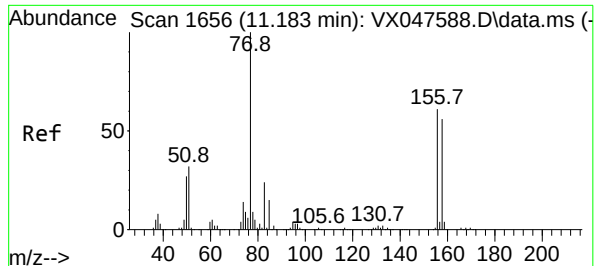
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

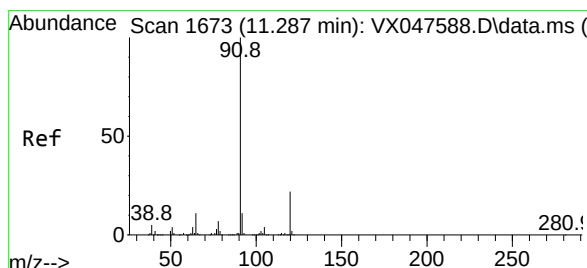
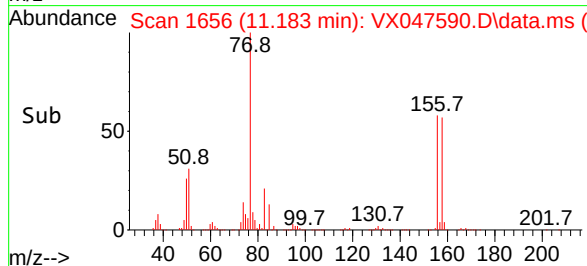
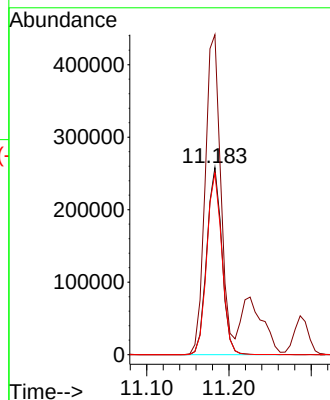
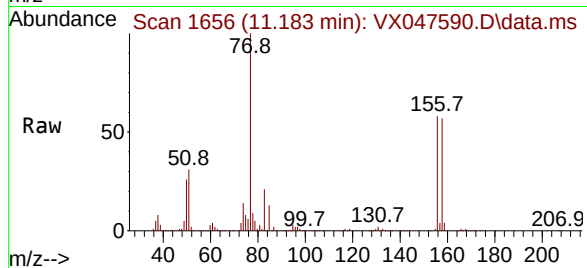
158 97.5 47.9 143.6

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

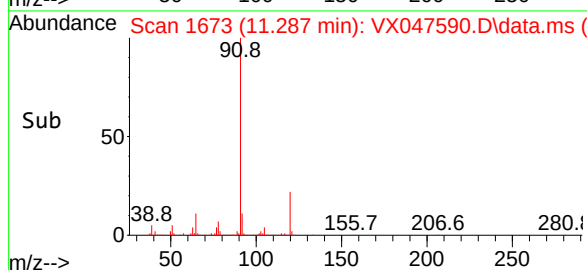
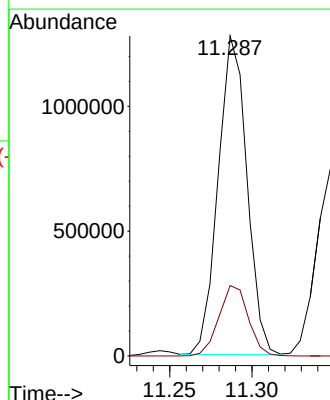
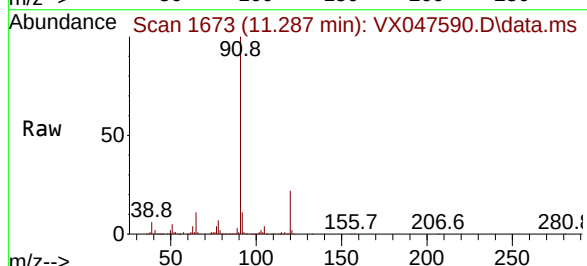
Acq: 16 Sep 2025 12:01

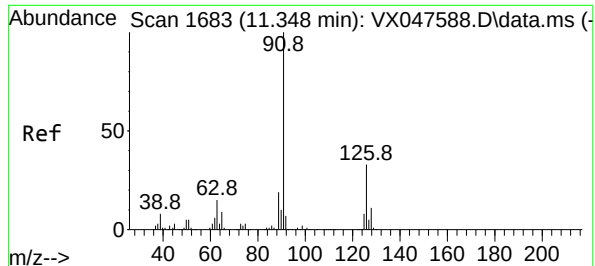
Tgt Ion: 91 Resp: 1550316

Ion Ratio Lower Upper

91 100

120 22.7 11.1 33.1





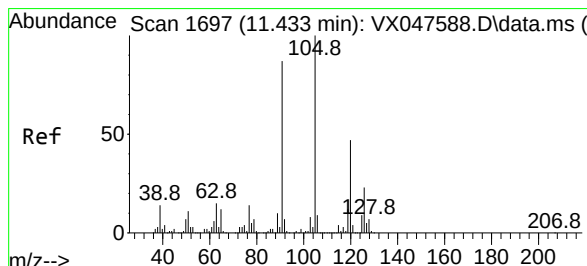
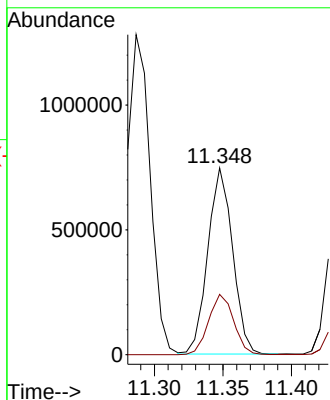
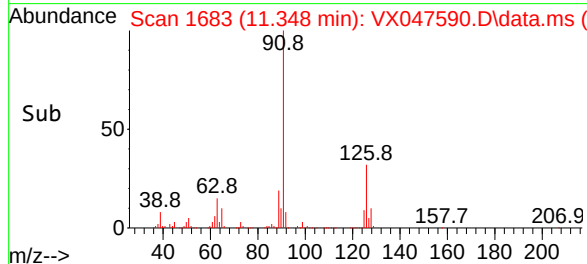
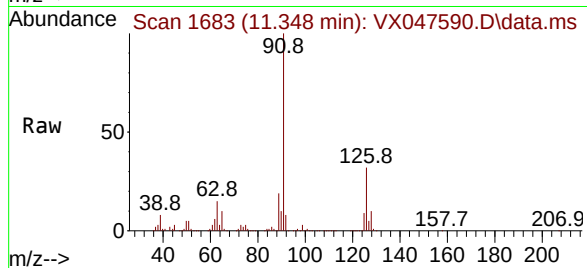
#79
2-Chlorotoluene
Concen: 148.781 ug/l
RT: 11.348 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VX047590.D
Acq: 16 Sep 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 91 Resp: 93970
Ion Ratio Lower Upper
91 100
126 32.7 16.1 48.3

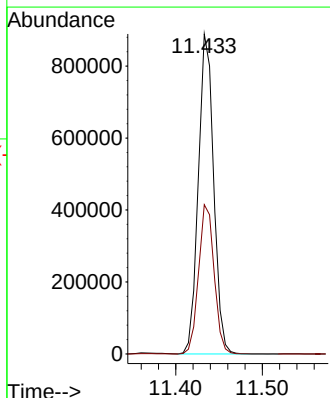
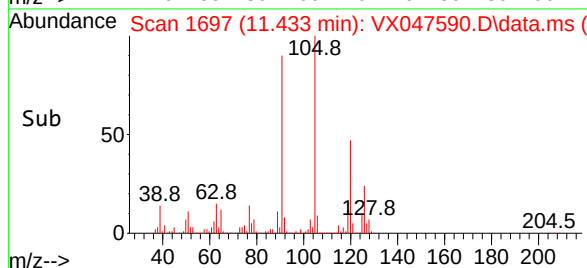
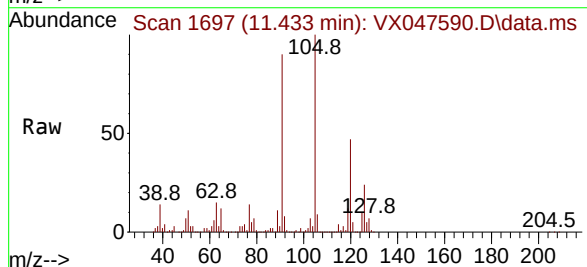
Manual Integrations
APPROVED

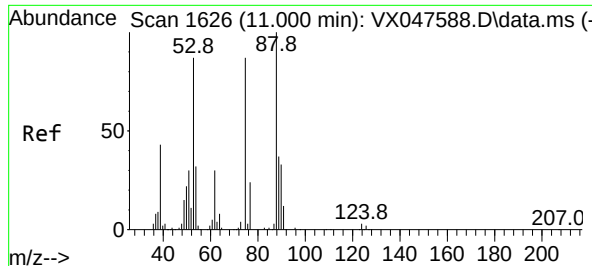
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

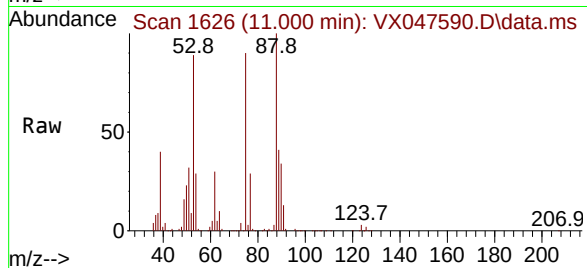
Tgt Ion:105 Resp: 1091593
Ion Ratio Lower Upper
105 100
120 47.4 23.6 70.8





#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

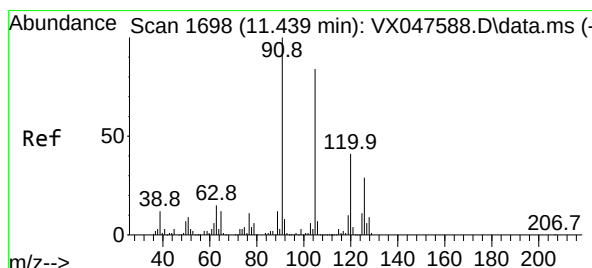
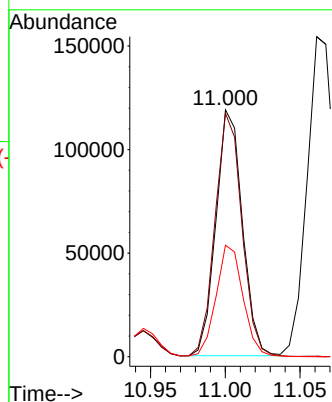
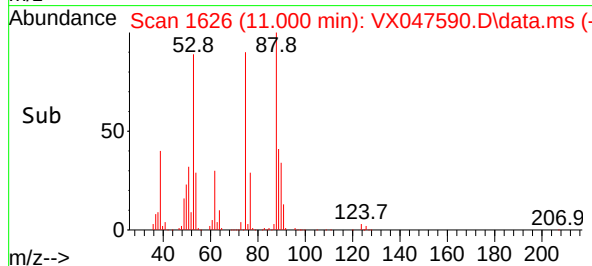
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



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

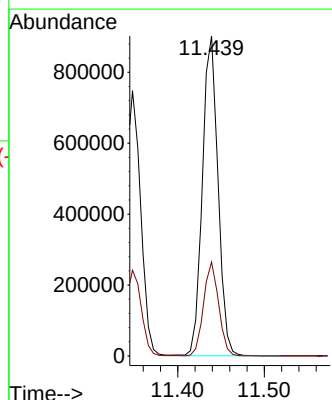
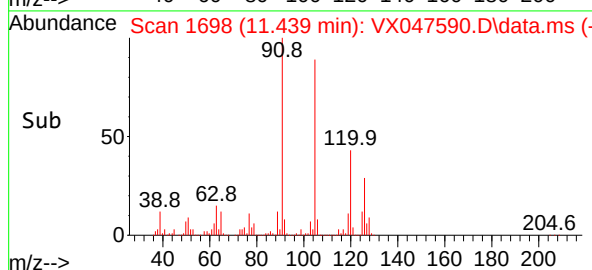
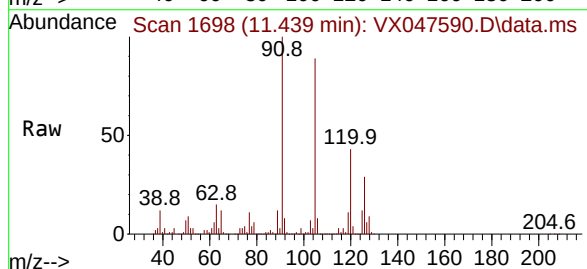
Manual Integrations
APPROVED

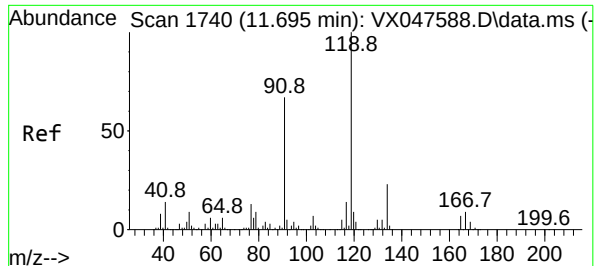
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

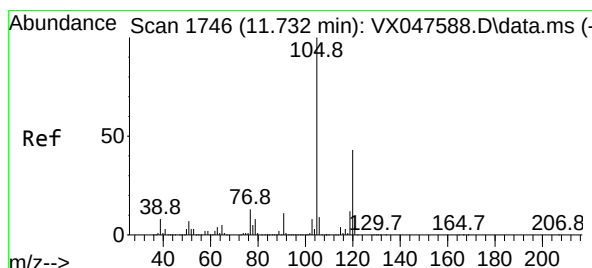
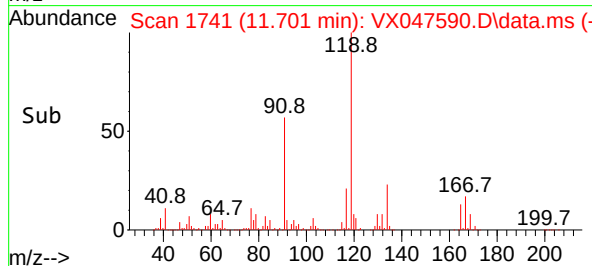
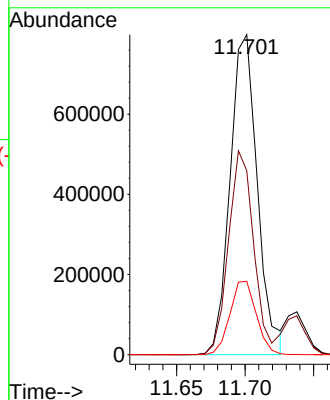
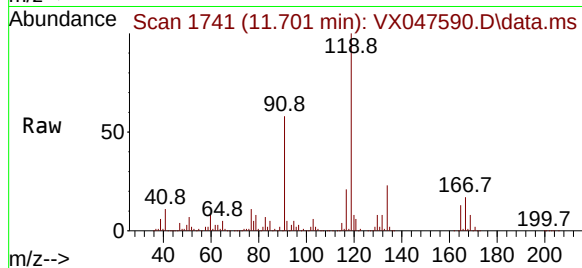
134 22.3 11.0 33.0

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

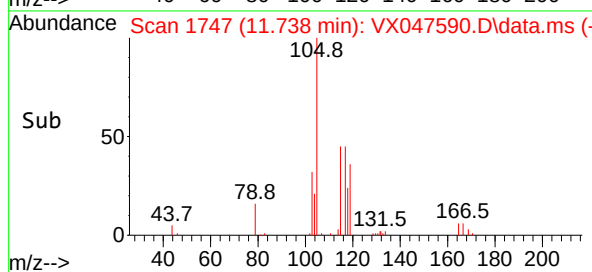
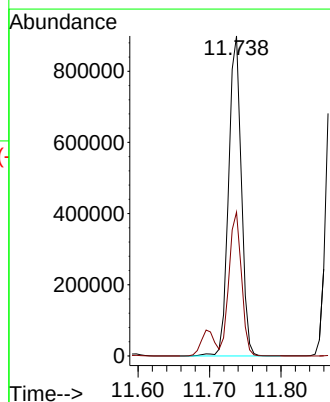
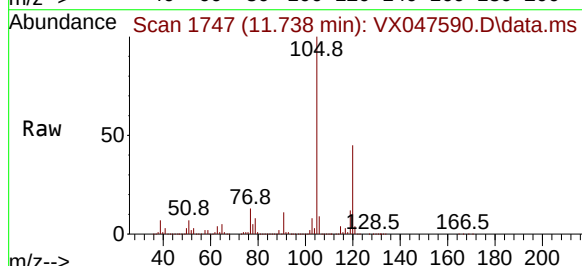
Acq: 16 Sep 2025 12:01

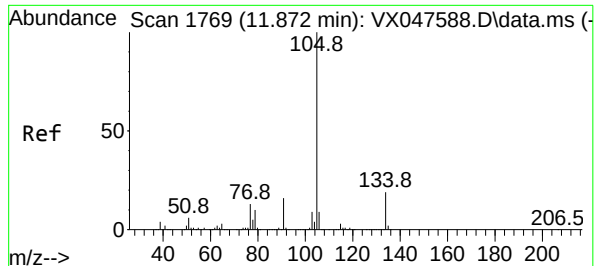
Tgt Ion:105 Resp: 1106914

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 :

VSTDIC150

Tgt Ion:105 Resp: 1319819

Ion Ratio Lower Upper

105 100

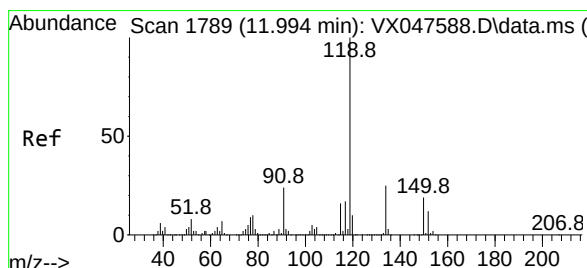
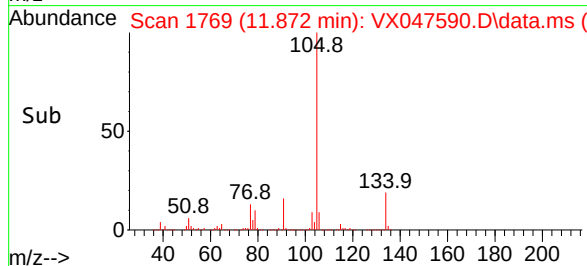
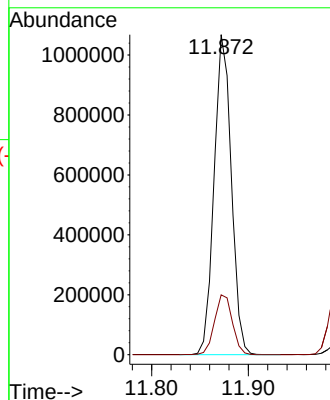
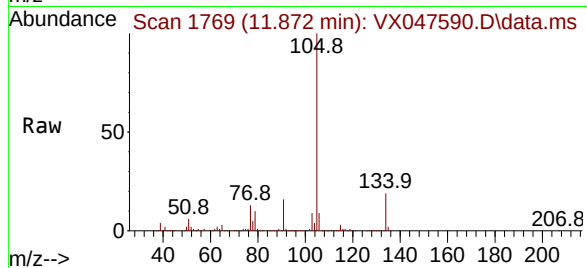
134 19.4 9.8 29.5

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

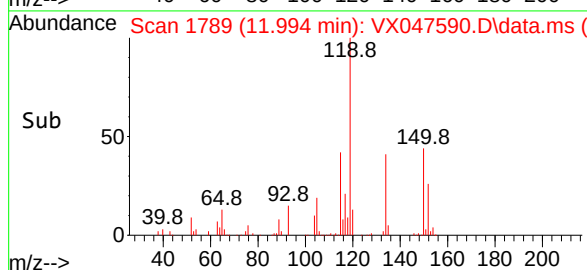
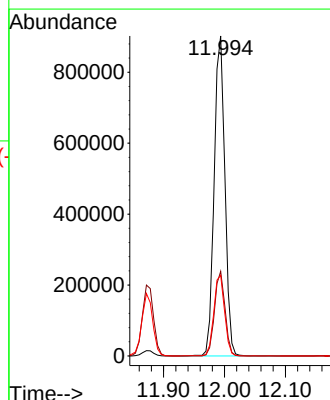
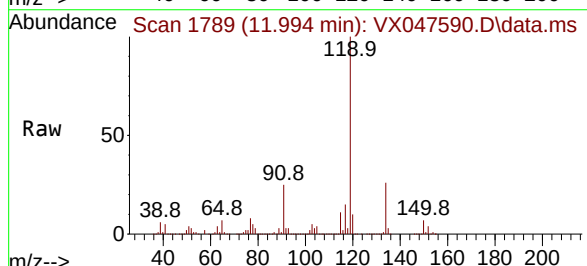
Tgt Ion:119 Resp: 1103210

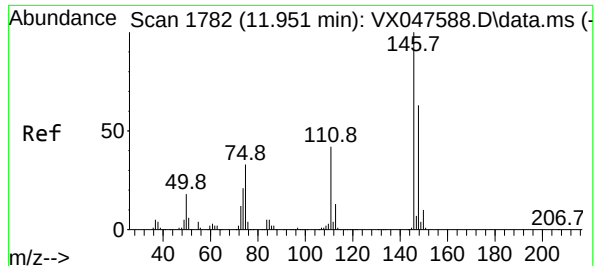
Ion Ratio Lower Upper

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

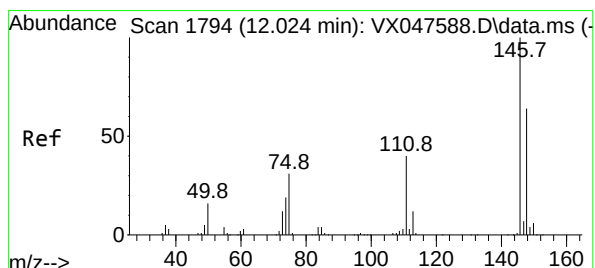
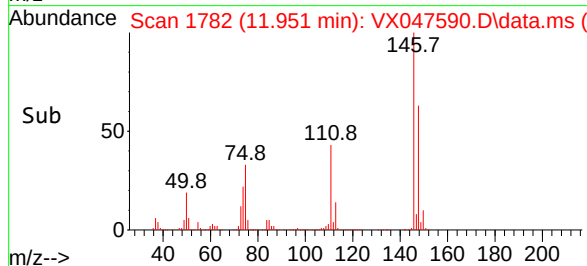
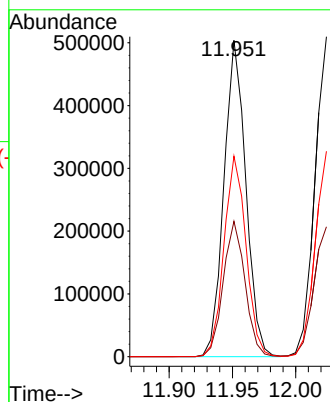
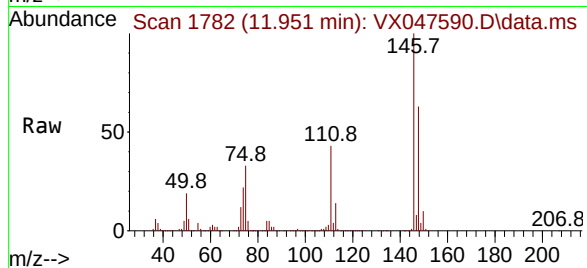
148 63.8 32.0 96.0

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

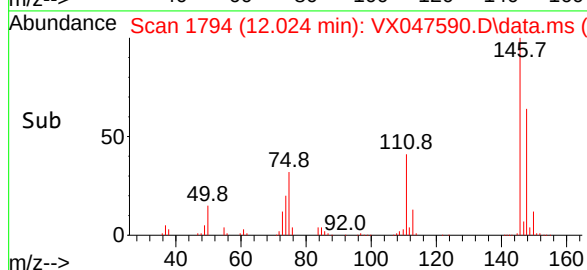
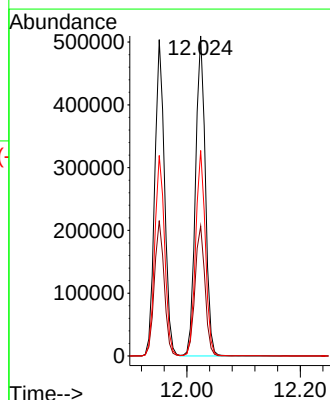
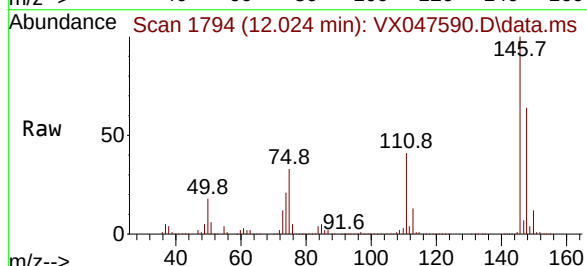
Tgt Ion:146 Resp: 613617

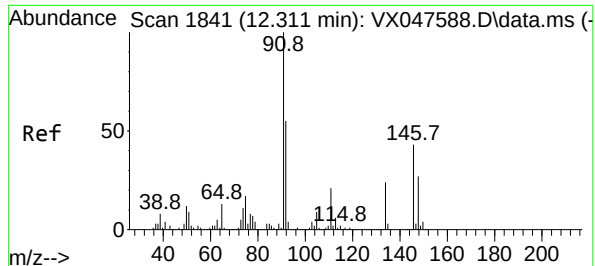
Ion Ratio Lower Upper

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

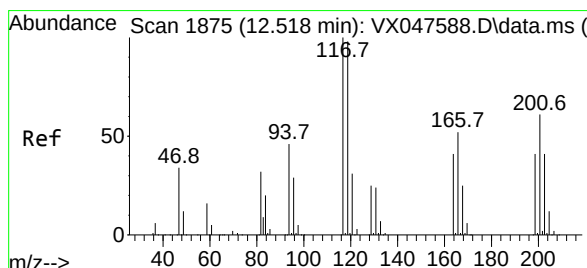
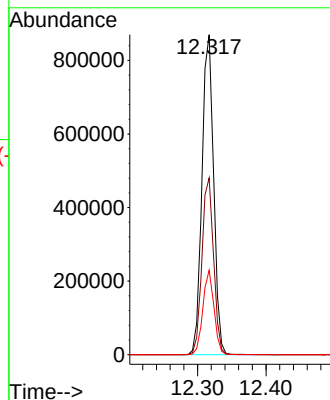
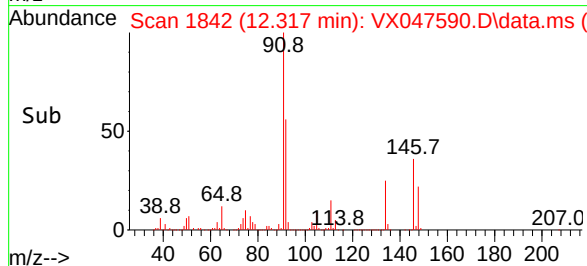
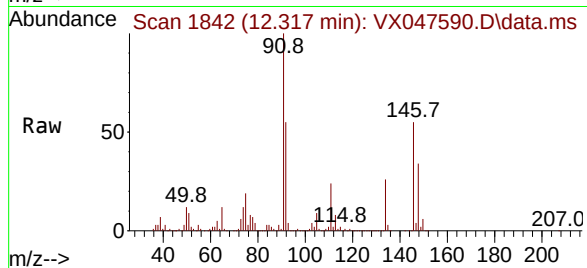
134 25.2 12.6 37.8

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

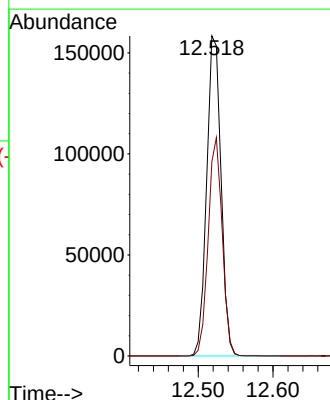
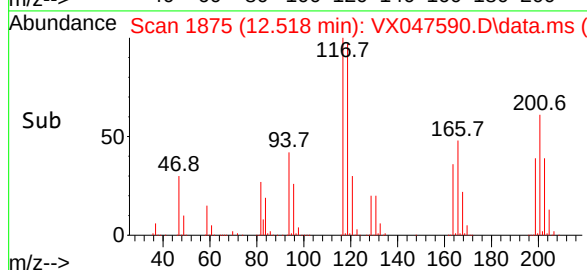
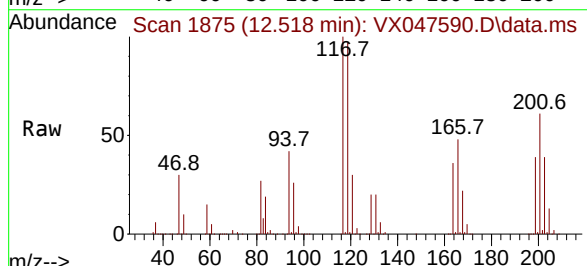
Acq: 16 Sep 2025 12:01

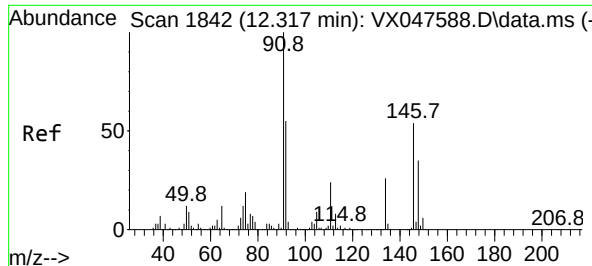
Tgt Ion:117 Resp: 211472

Ion Ratio Lower Upper

117 100

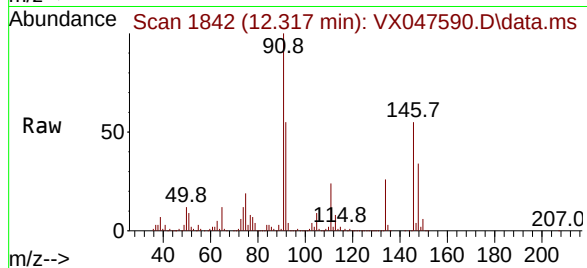
201 66.6 34.2 102.5





#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

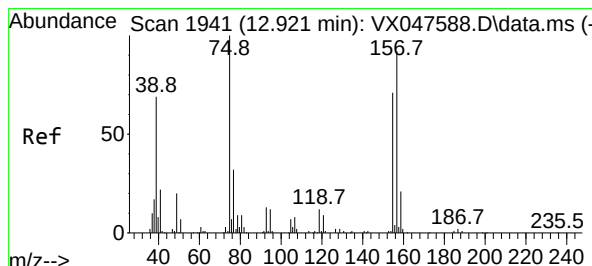
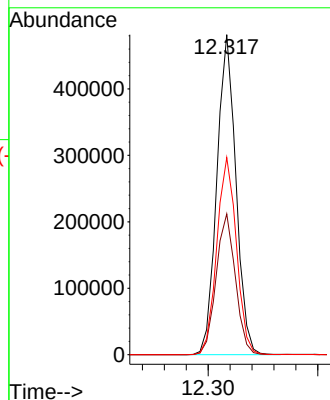
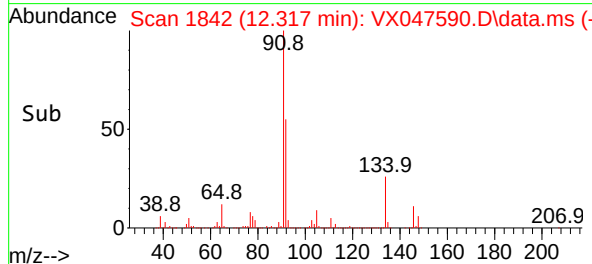
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



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

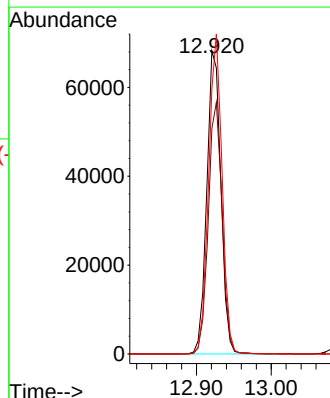
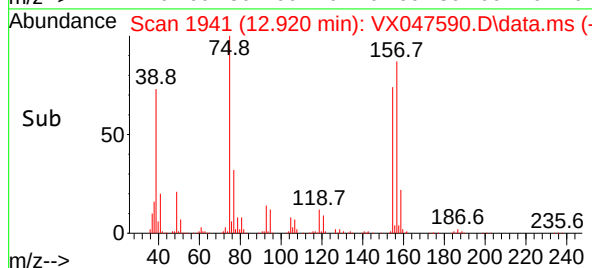
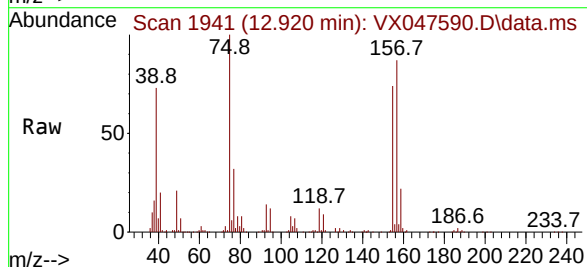
Manual Integrations
APPROVED

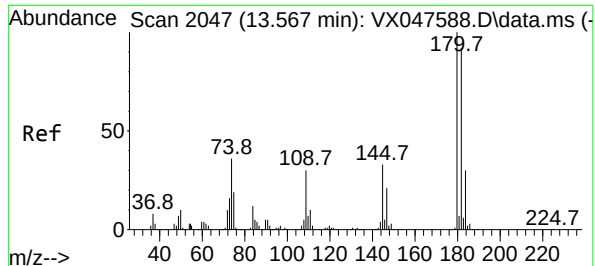
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

VSTDICC150

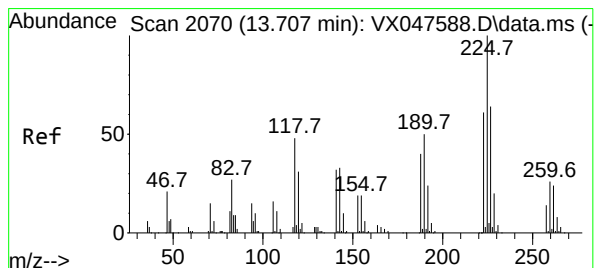
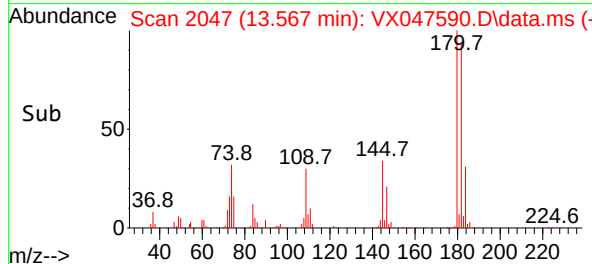
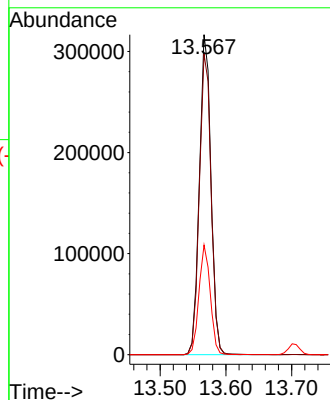
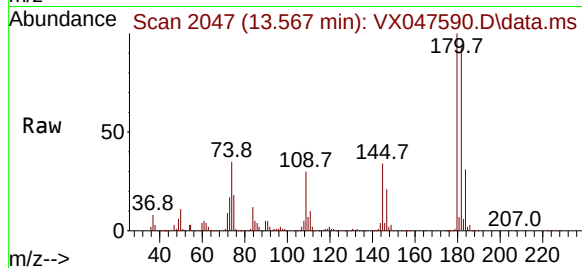
Tgt Ion:	180	Resp:	387652
Ion Ratio	Lower	Upper	
180	100		
182	95.3	46.6	139.8
145	33.5	16.4	49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#94

Hexachlorobutadiene

Concen: 145.110 ug/l

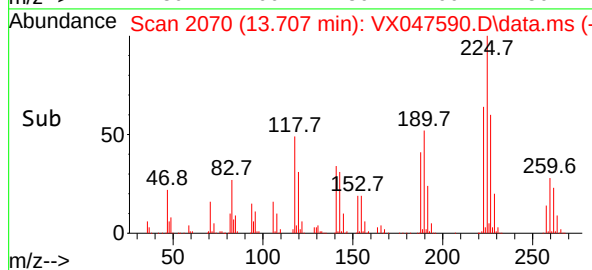
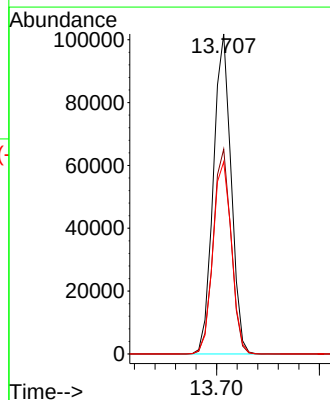
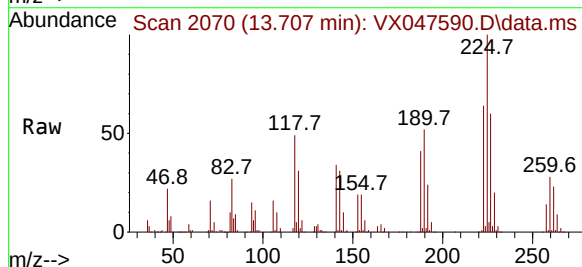
RT: 13.707 min Scan# 2070

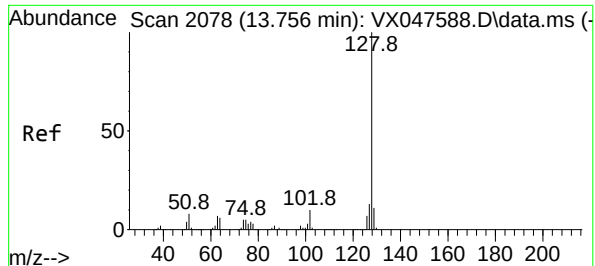
Delta R.T. -0.000 min

Lab File: VX047590.D

Acq: 16 Sep 2025 12:01

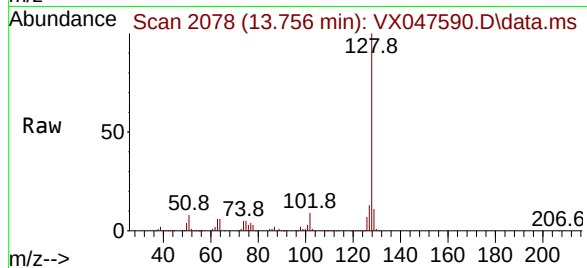
Tgt Ion:	225	Resp:	121791
Ion Ratio	Lower	Upper	
225	100		
223	64.2	31.7	95.1
227	62.8	32.0	96.0





#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

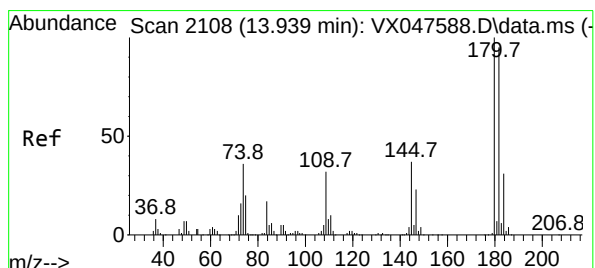
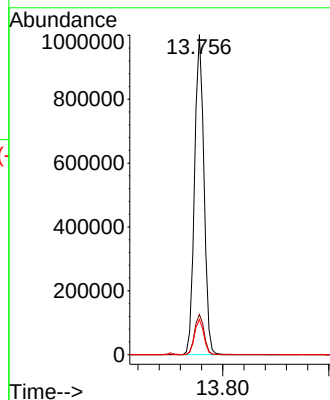
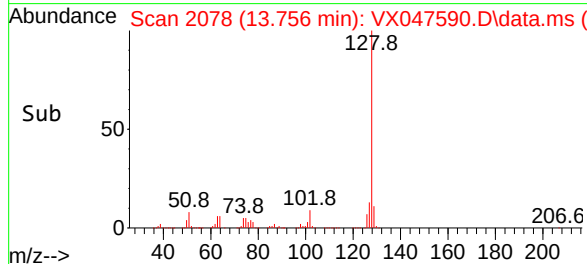
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



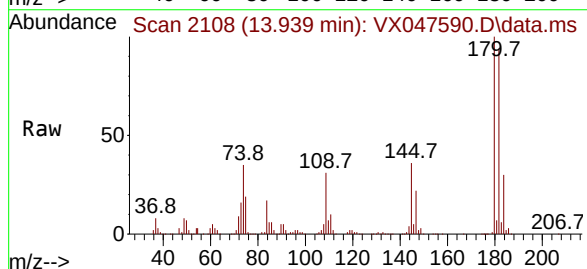
Tgt Ion:128 Resp: 122936
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 10.9 8.8 13.2

Manual Integrations
APPROVED

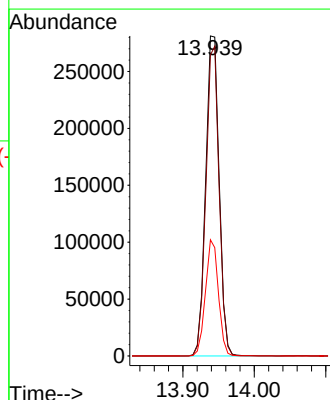
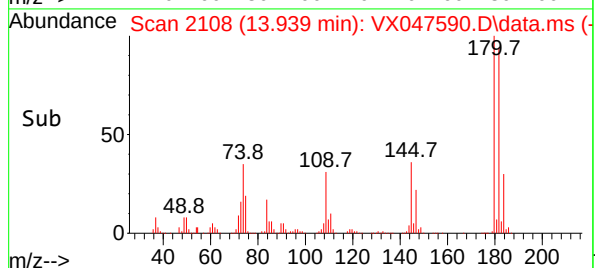
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

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)
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

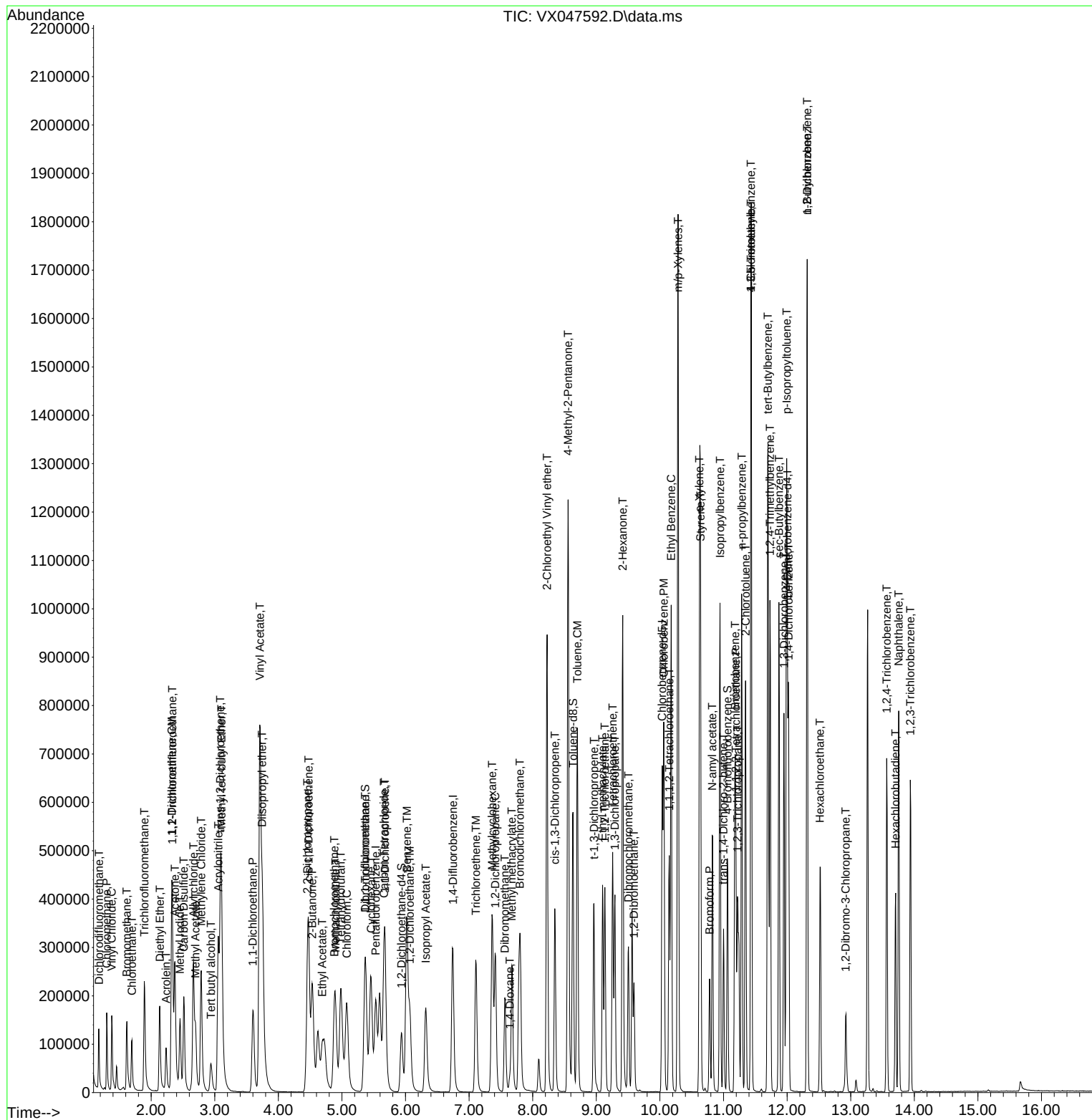
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 Data File : VX047592.D
 Acq On : 16 Sep 2025 13:35
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

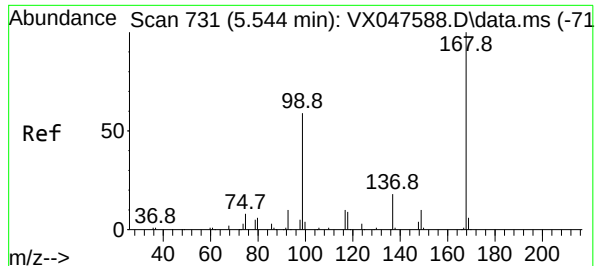
Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX091625

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





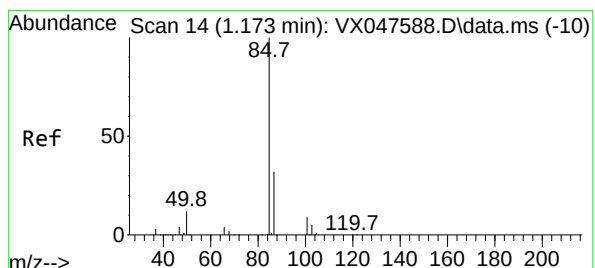
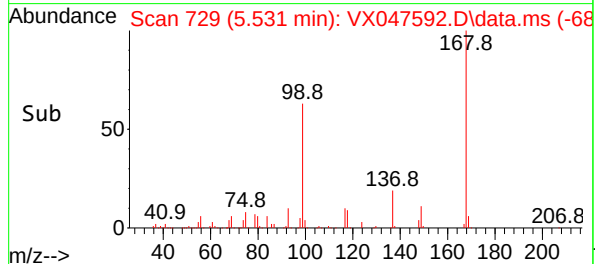
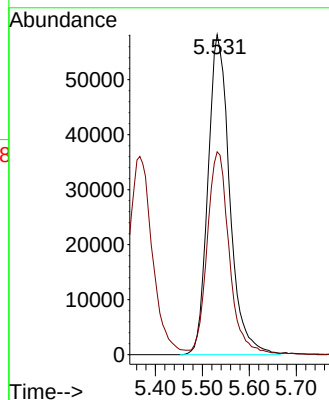
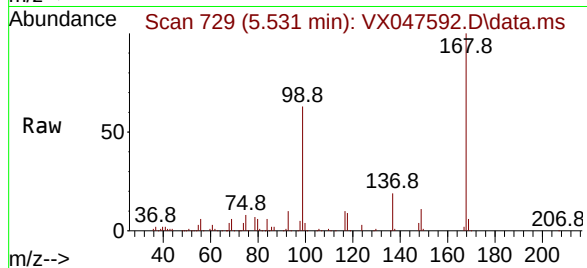
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 71
Delta R.T. -0.013 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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

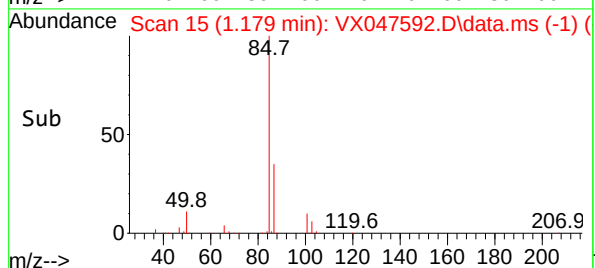
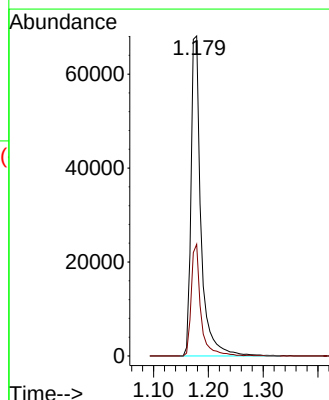
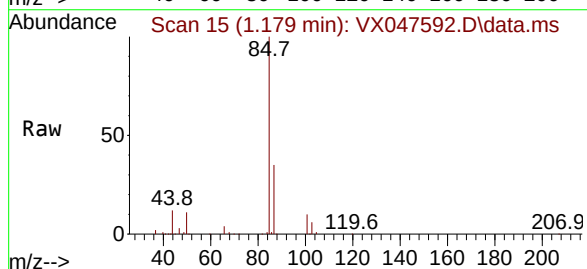
Manual Integrations
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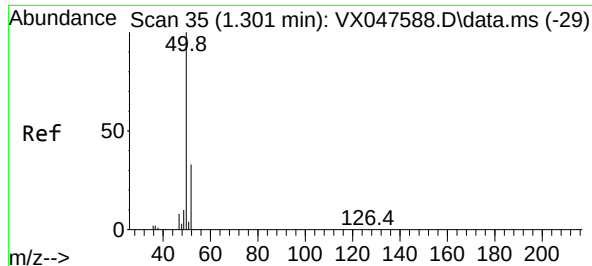
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





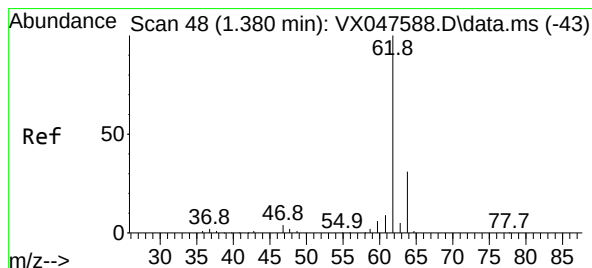
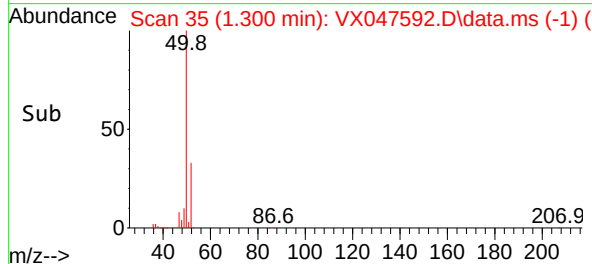
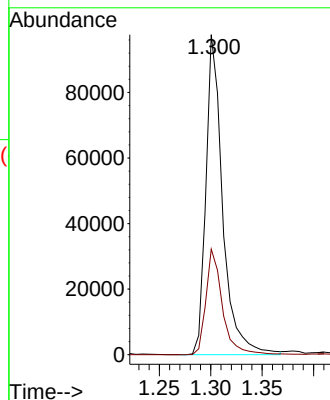
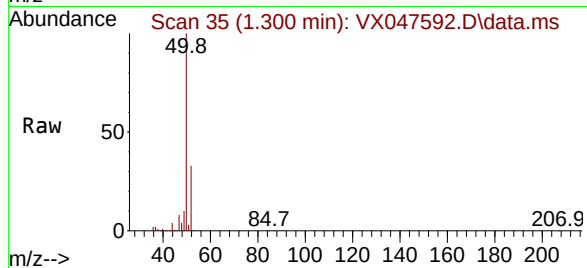
#3
Chloromethane
Concen: 43.710 ug/l
RT: 1.300 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 50 Resp: 110935
Ion Ratio Lower Upper
50 100
52 33.0 26.1 39.1

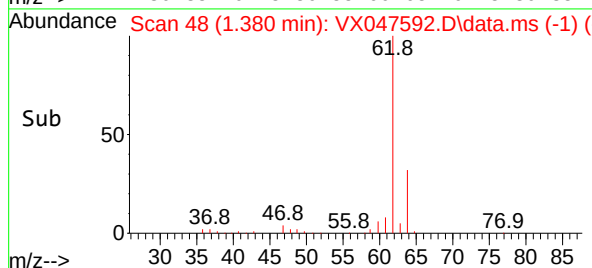
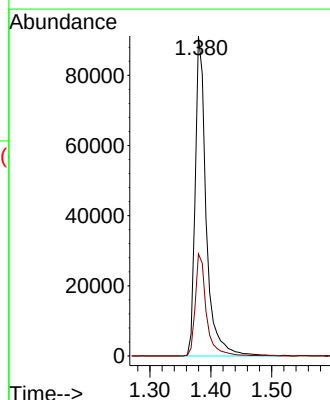
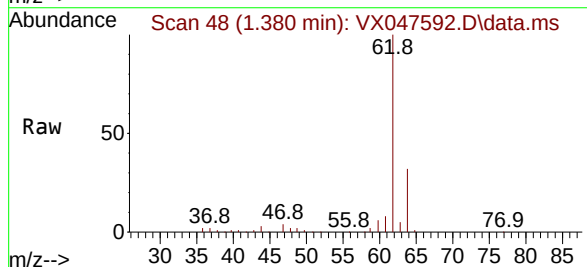
Manual Integrations
APPROVED

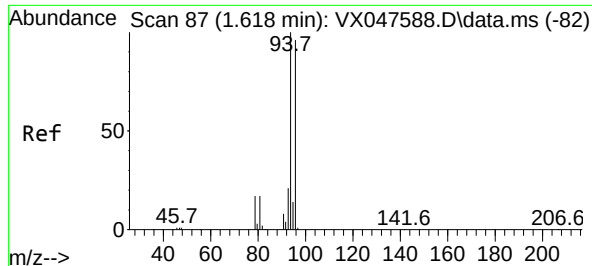
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





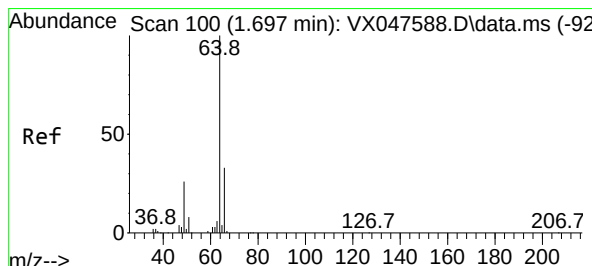
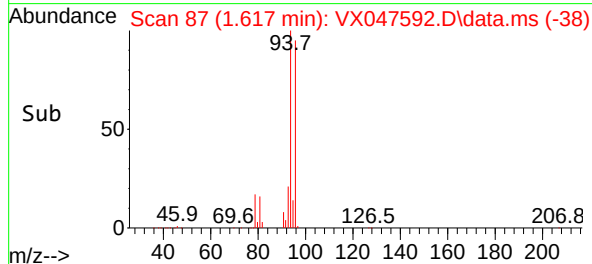
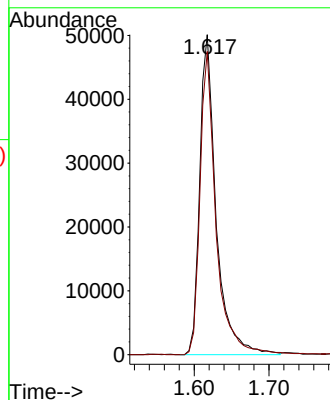
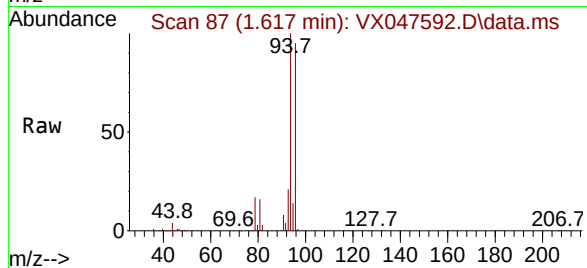
#5
Bromomethane
Concen: 48.489 ug/l
RT: 1.617 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 94 Resp: 7638
Ion Ratio Lower Upper
94 100
96 94.7 76.6 115.0

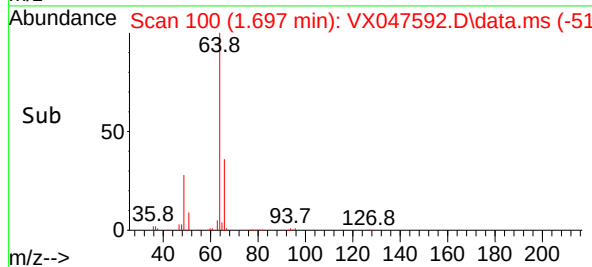
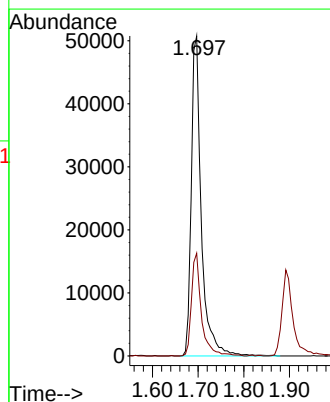
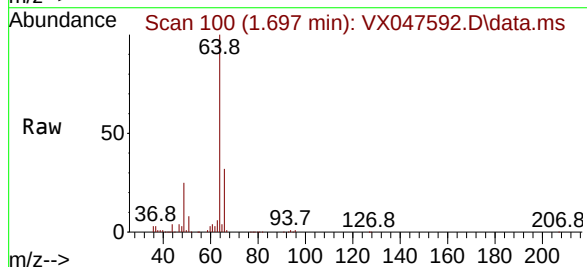
Manual Integrations
APPROVED

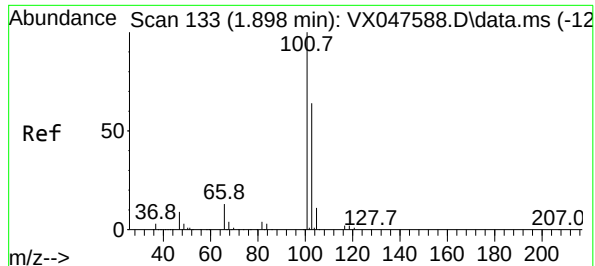
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

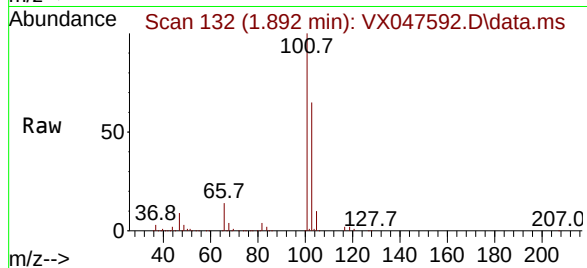
Tgt Ion: 64 Resp: 77337
Ion Ratio Lower Upper
64 100
66 32.1 26.1 39.1





#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

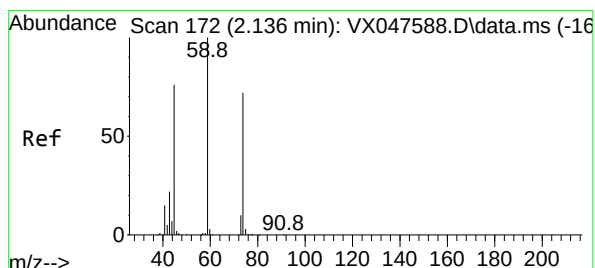
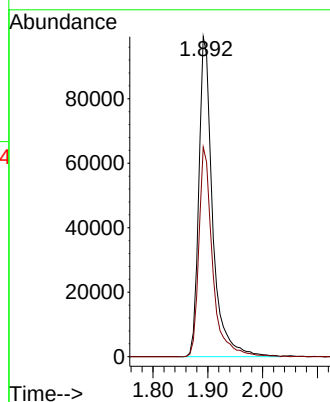
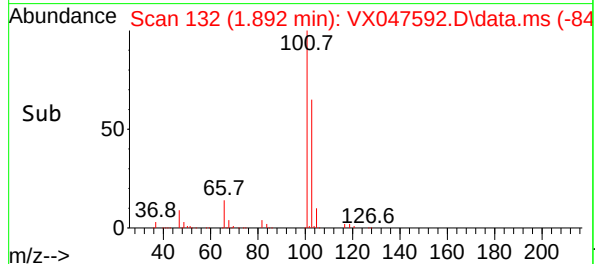
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion:101 Resp: 17364
Ion Ratio Lower Upper
101 100
103 65.5 51.4 77.2

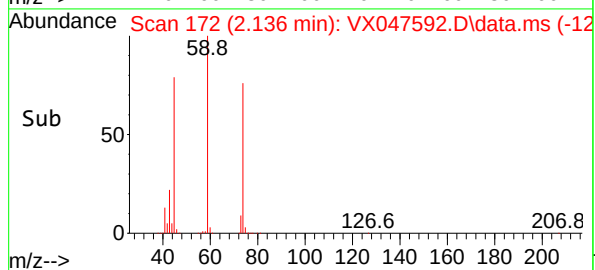
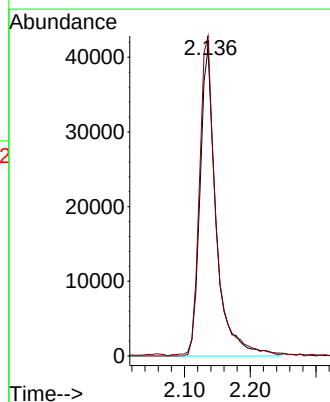
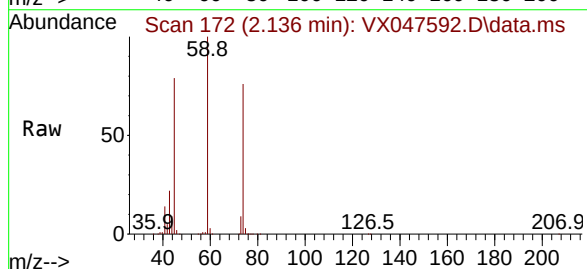
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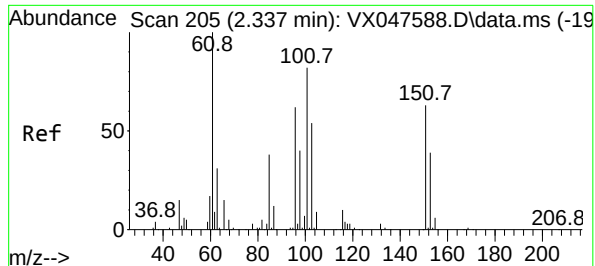
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

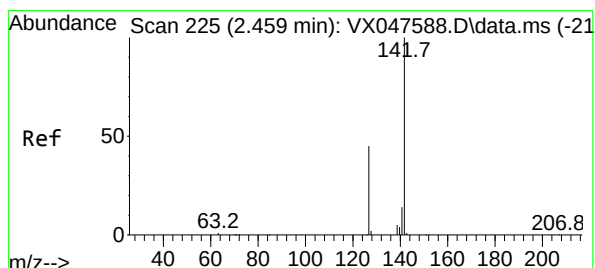
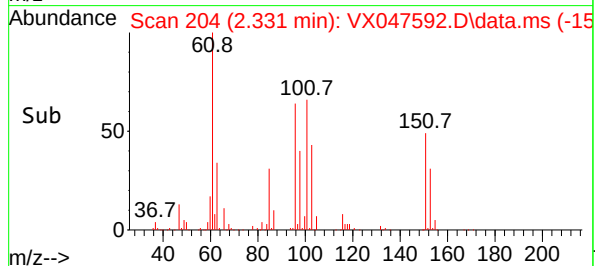
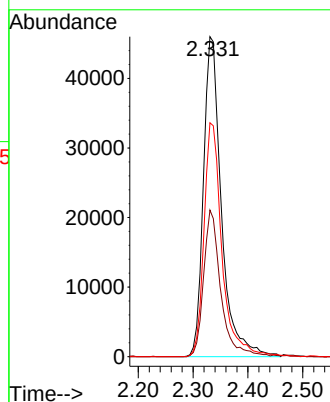
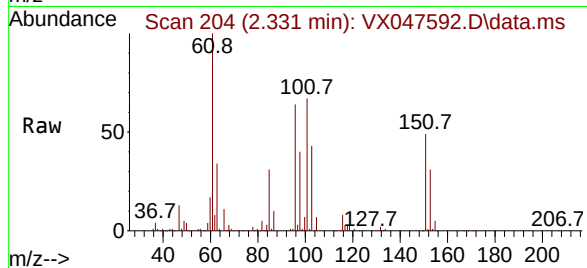
151 73.3 59.4 89.0

Manual Integrations

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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

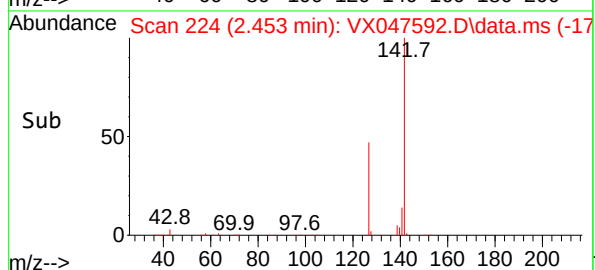
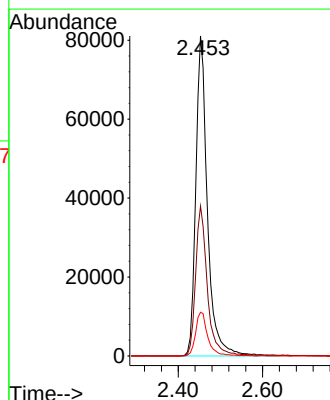
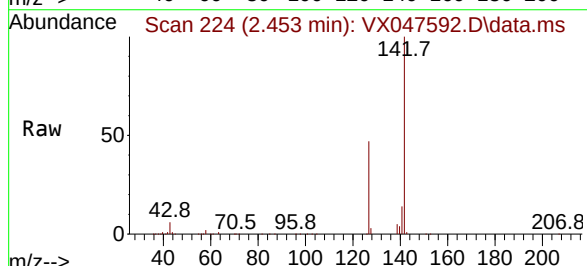
Tgt Ion:142 Resp: 155450

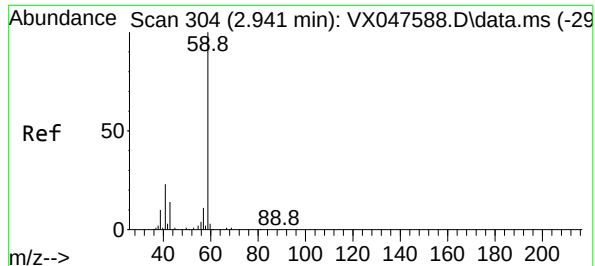
Ion Ratio Lower Upper

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 :

ICVVX091625

Tgt Ion: 59 Resp: 8472

Ion Ratio Lower Upper

59 100

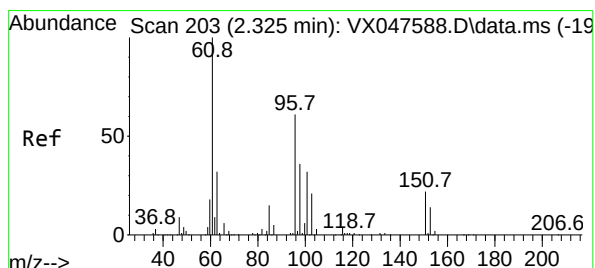
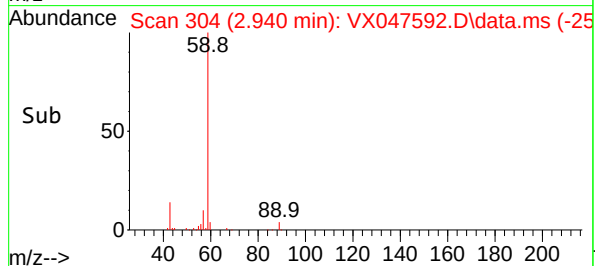
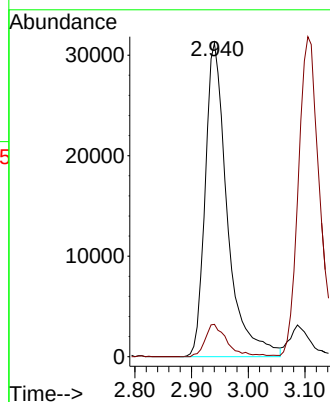
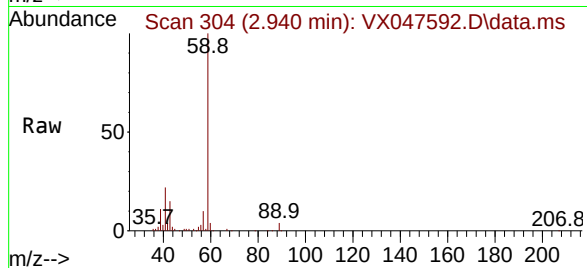
57 10.3 8.3 12.5

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

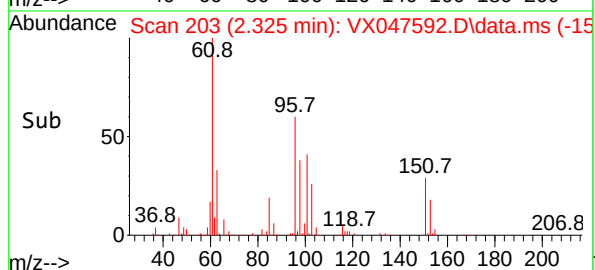
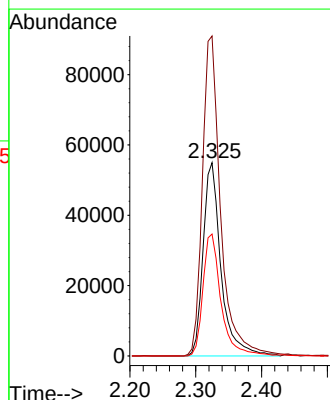
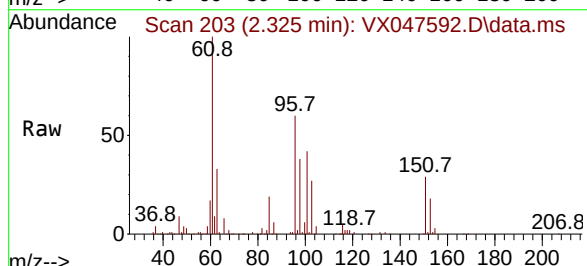
Tgt Ion: 96 Resp: 104302

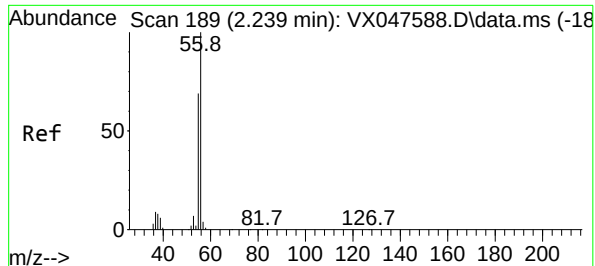
Ion Ratio Lower Upper

96 100

61 165.6 131.0 196.6

98 63.1 47.7 71.5





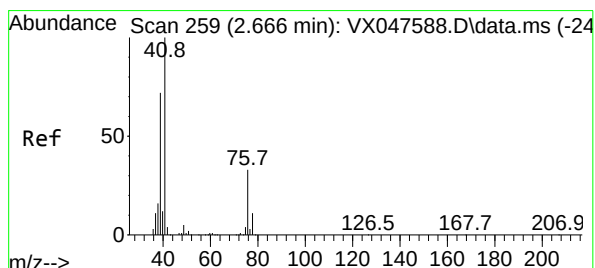
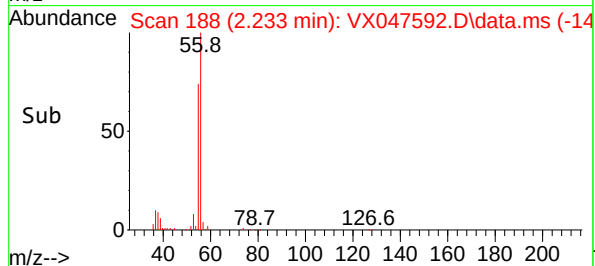
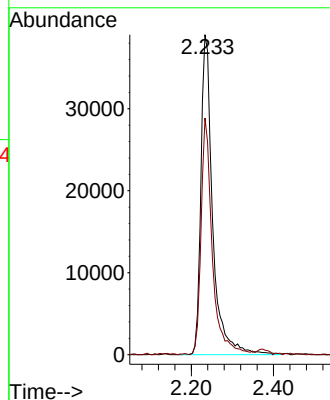
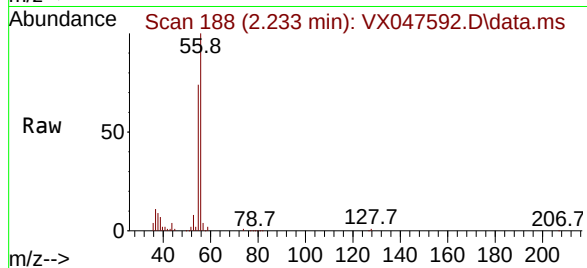
#13
Acrolein
Concen: 254.867 ug/l
RT: 2.233 min Scan# 188
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 56 Resp: 7764
Ion Ratio Lower Upper
56 100
55 70.3 57.2 85.8

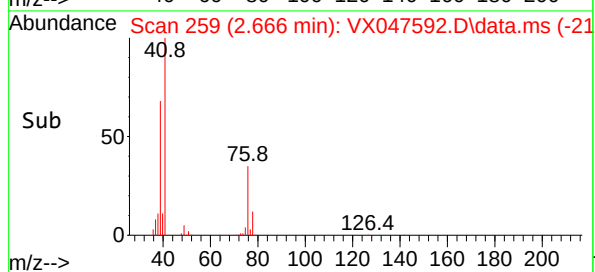
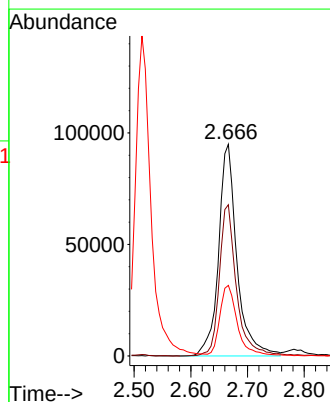
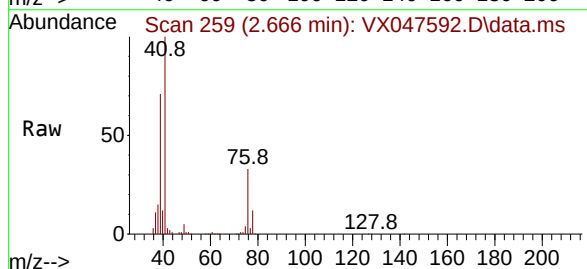
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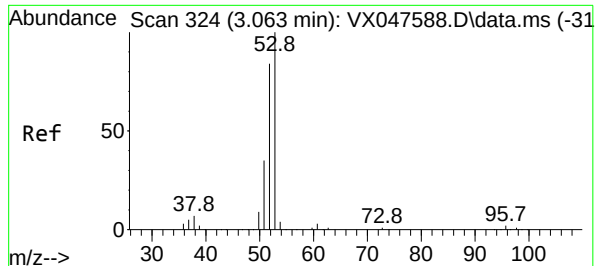
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#14
Allyl chloride
Concen: 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 :

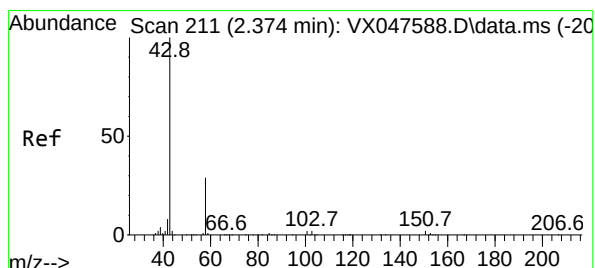
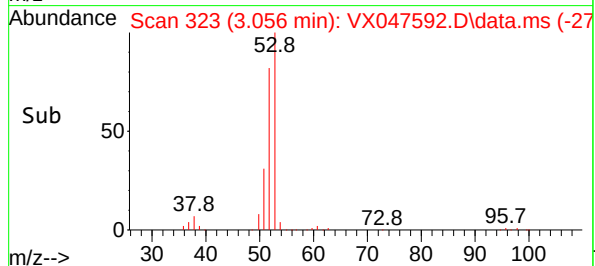
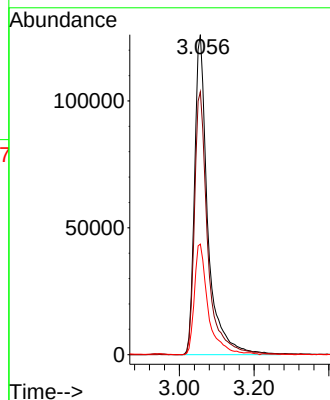
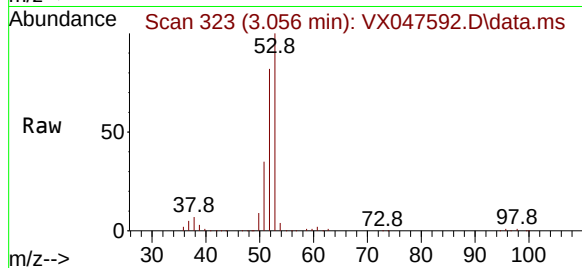
ICVVX091625

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
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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#16

Acetone

Concen: 245.006 ug/l

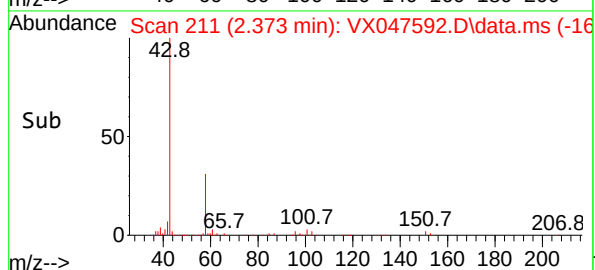
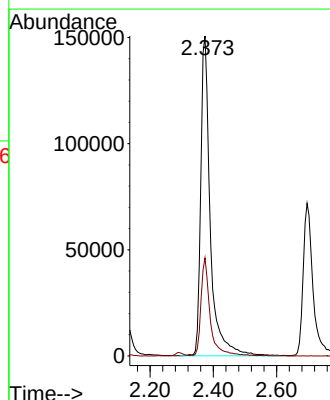
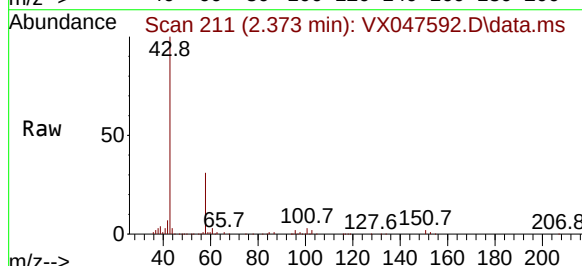
RT: 2.373 min Scan# 211

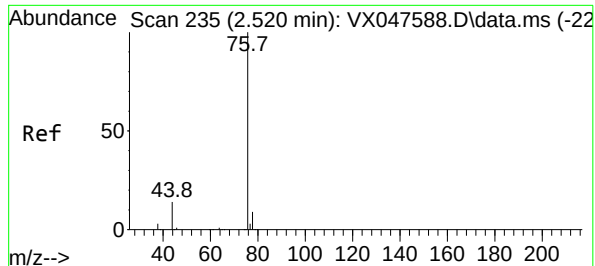
Delta R.T. -0.000 min

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





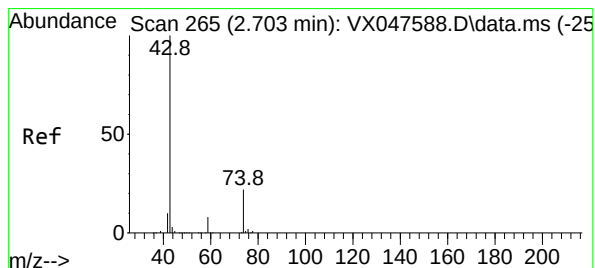
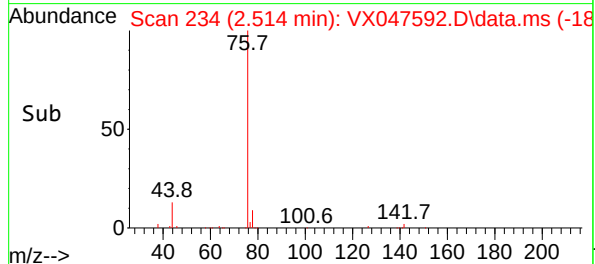
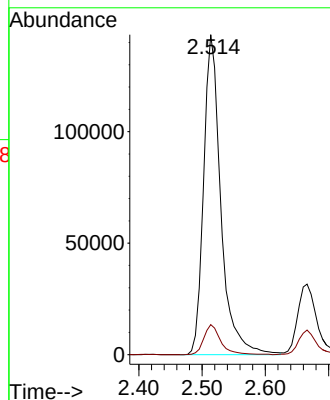
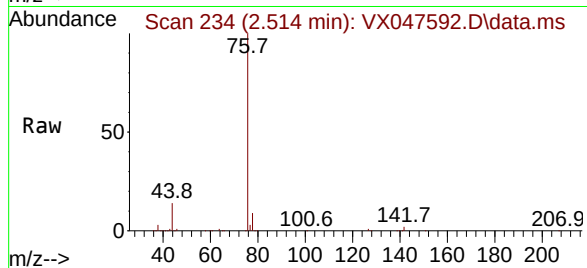
#17
Carbon Disulfide
Concen: 44.966 ug/l
RT: 2.514 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 76 Resp: 27274
Ion Ratio Lower Upper
76 100
78 9.6 6.8 10.2

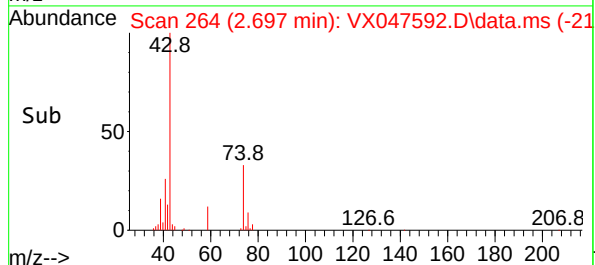
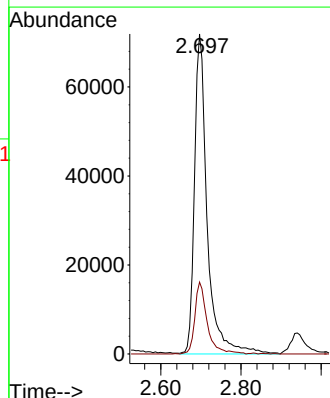
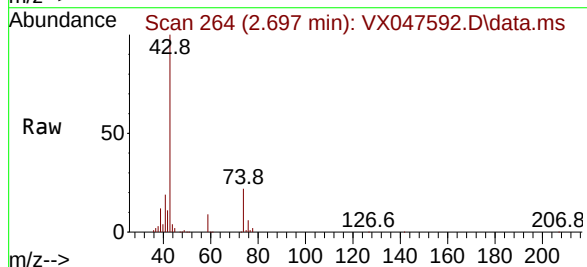
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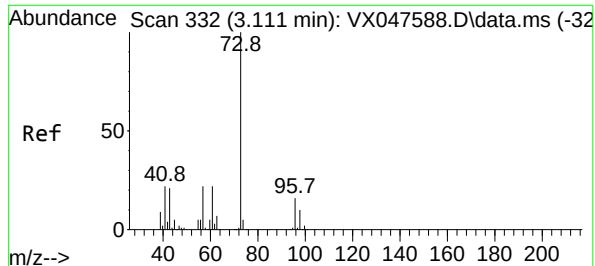
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

ICVVX091625

Tgt Ion: 73 Resp: 392574

Ion Ratio Lower Upper

73 100

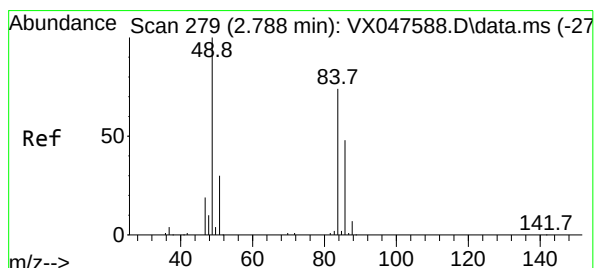
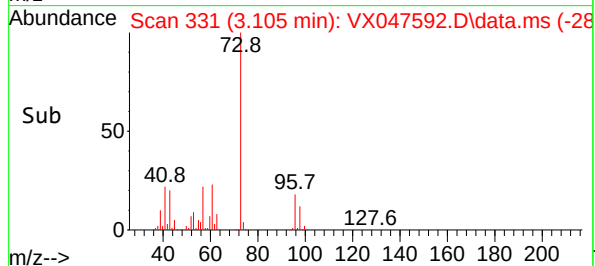
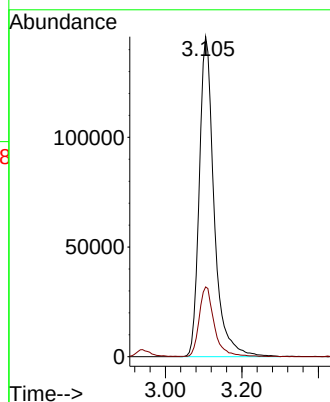
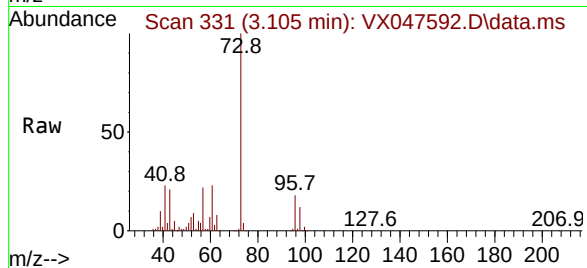
57 21.7 17.4 26.2

Manual Integrations

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Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#20

Methylene Chloride

Concen: 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

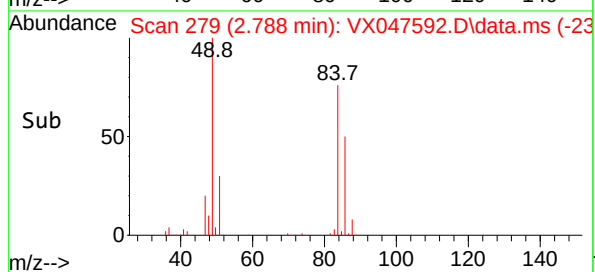
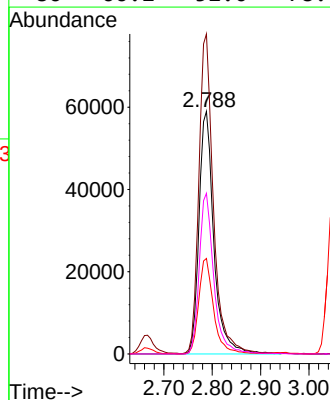
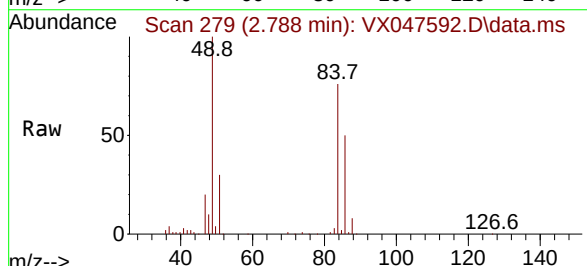
Ion Ratio Lower Upper

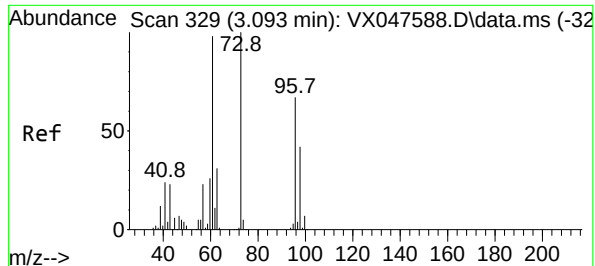
84 100

49 131.8 108.6 162.8

51 39.4 32.6 48.8

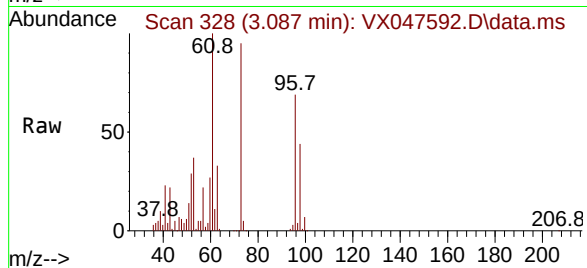
86 66.2 52.0 78.0





#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

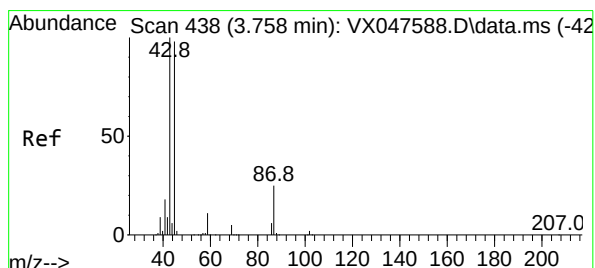
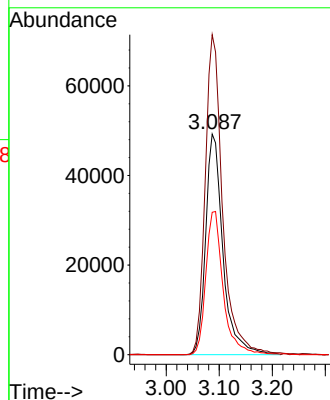
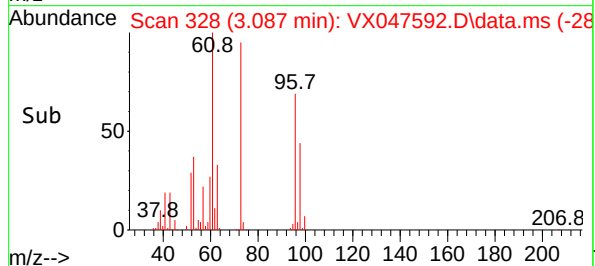
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



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

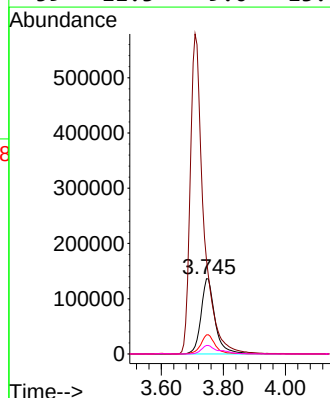
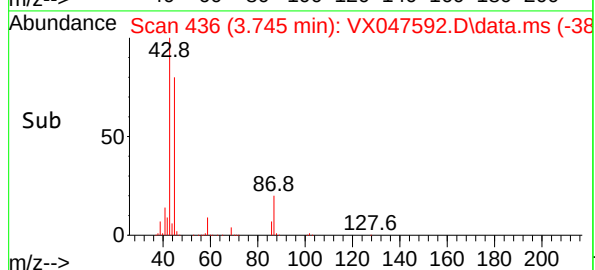
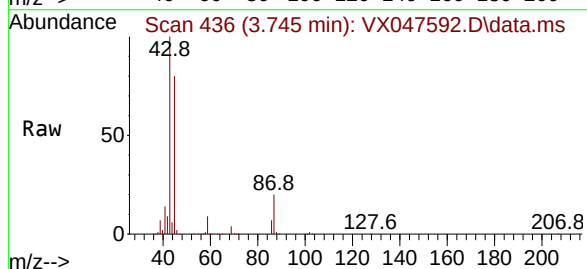
Manual Integrations
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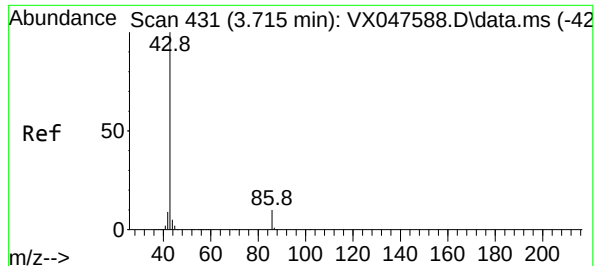
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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# 41

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

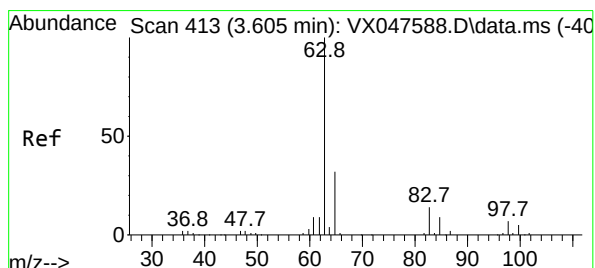
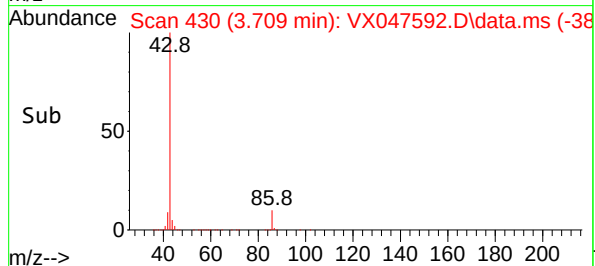
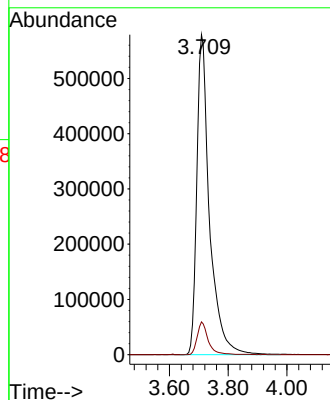
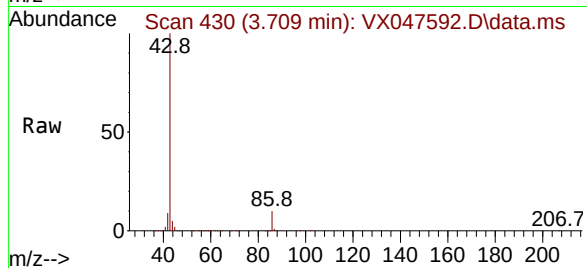
11.8

Manual Integrations

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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

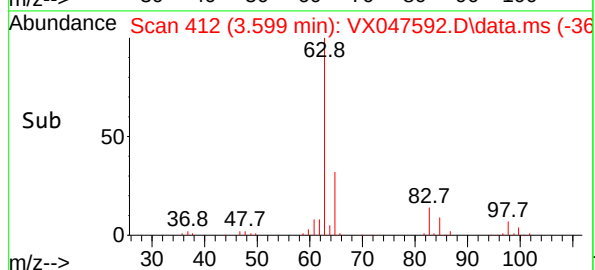
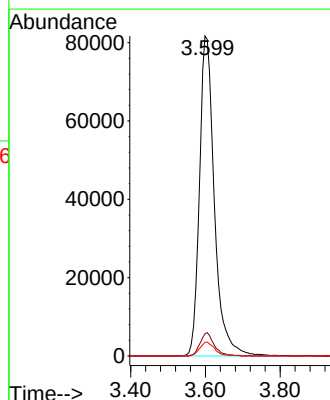
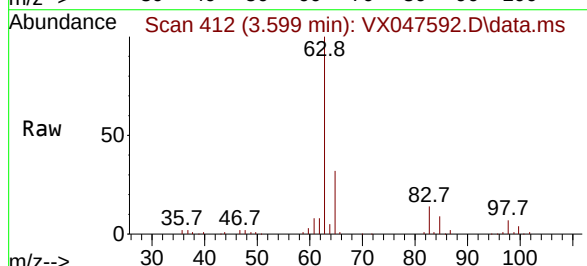
11.2

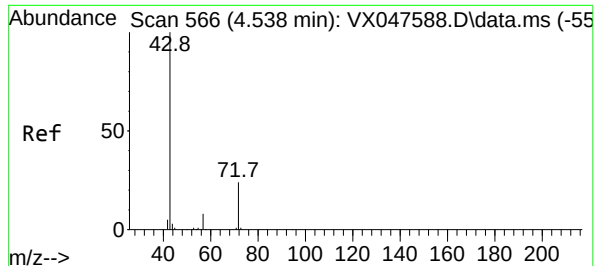
100

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

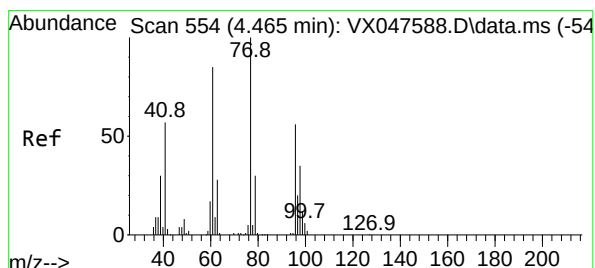
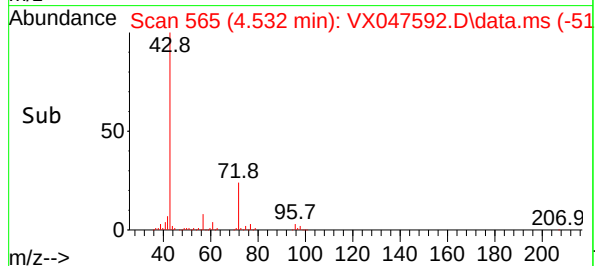
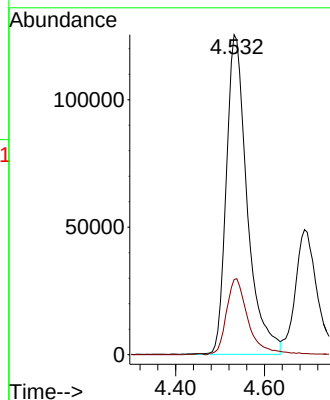
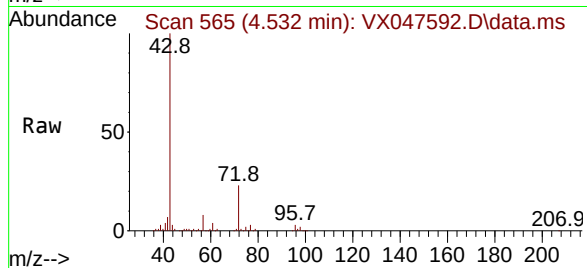
72 23.5 20.1 30.1

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

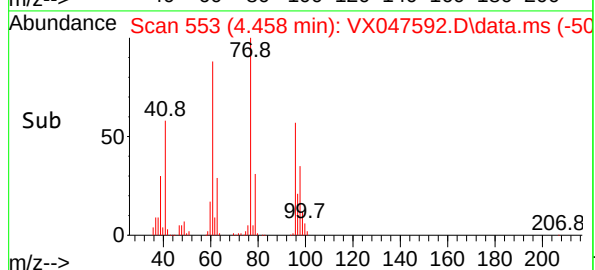
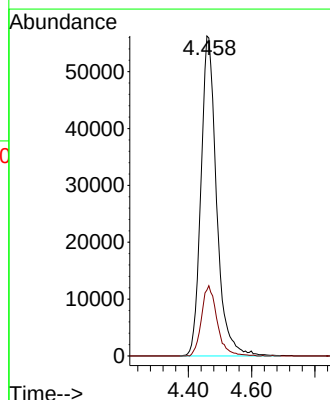
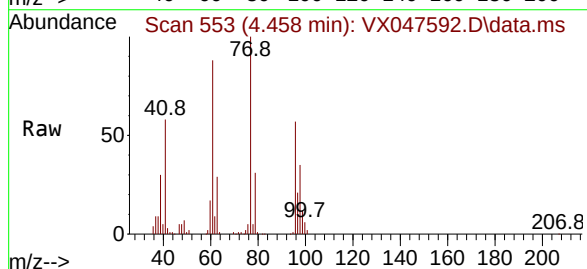
Acq: 16 Sep 2025 13:35

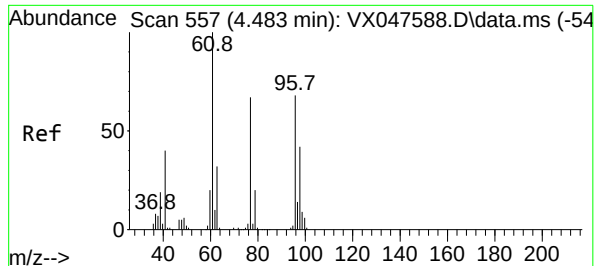
Tgt Ion: 77 Resp: 193760

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# 557

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

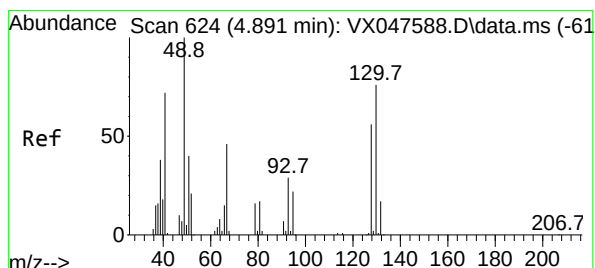
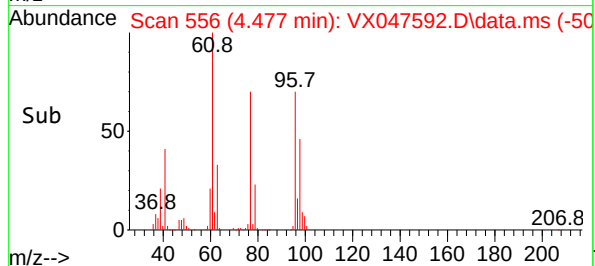
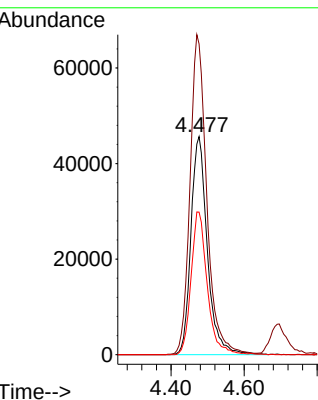
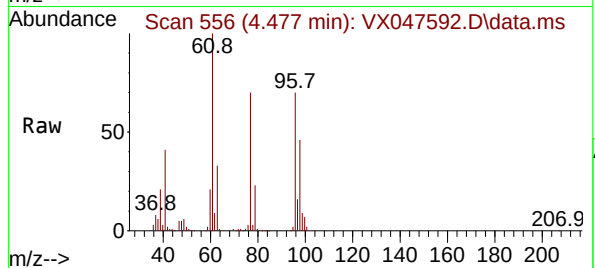
98 64.3 0.0 127.8

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

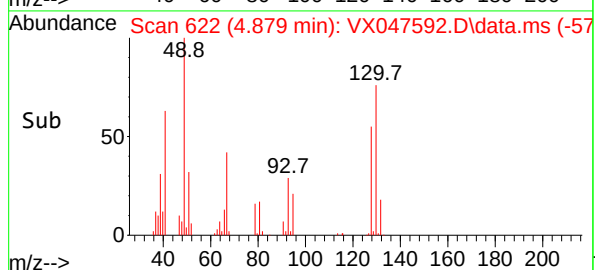
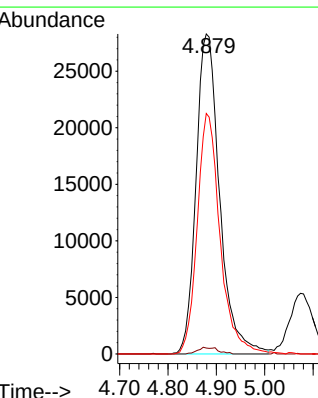
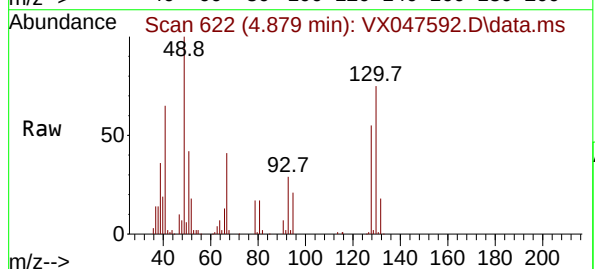
Tgt Ion: 49 Resp: 95782

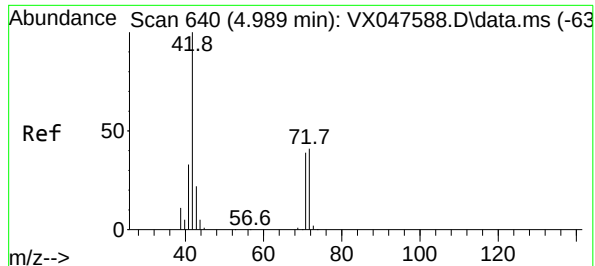
Ion Ratio Lower Upper

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

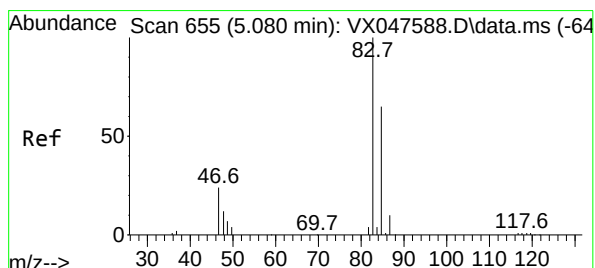
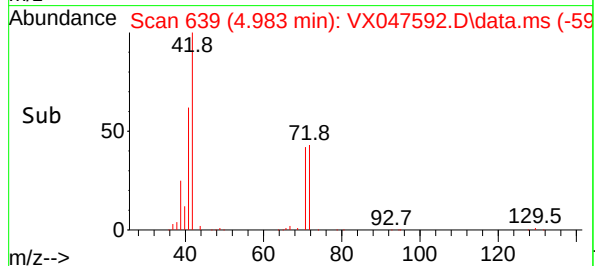
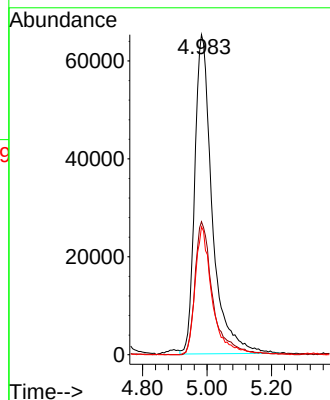
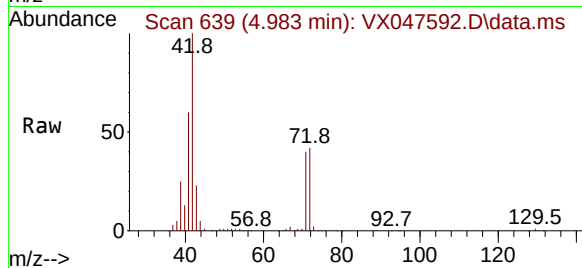
71 38.9 31.9 47.9

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

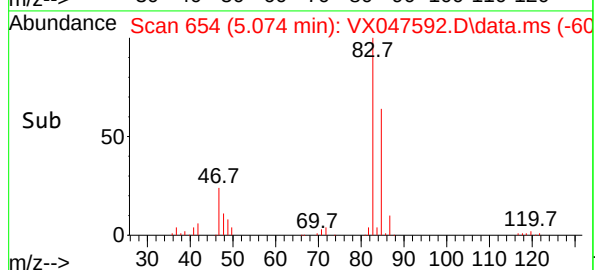
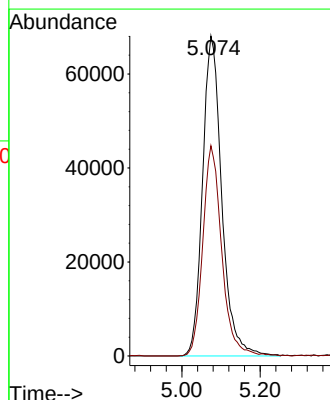
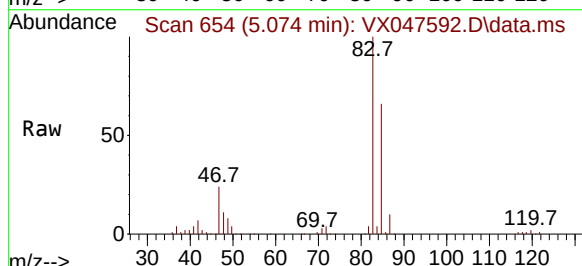
Acq: 16 Sep 2025 13:35

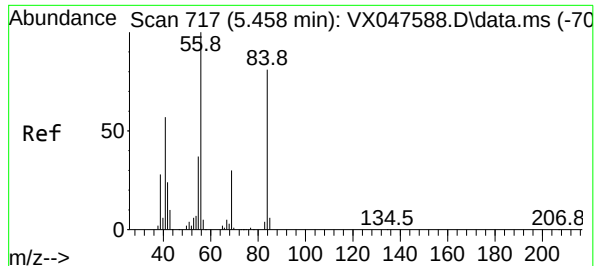
Tgt Ion: 83 Resp: 231954

Ion Ratio Lower Upper

83 100

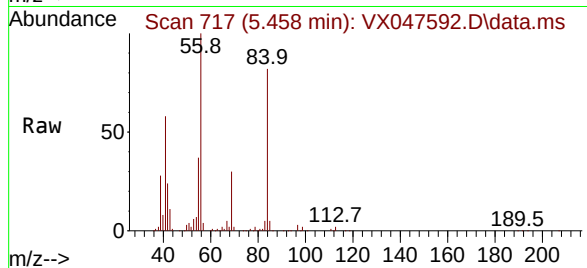
85 65.6 51.8 77.6





#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

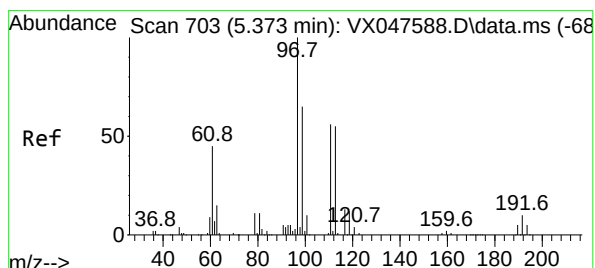
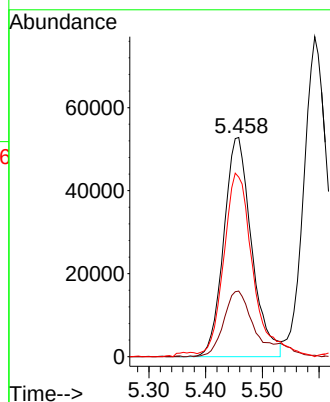
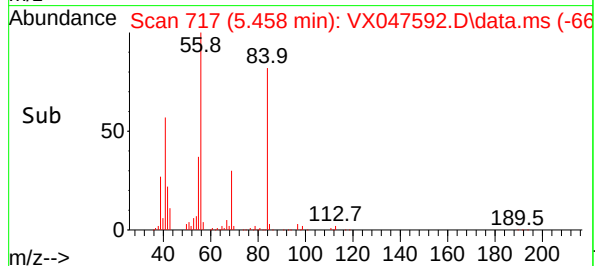
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



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

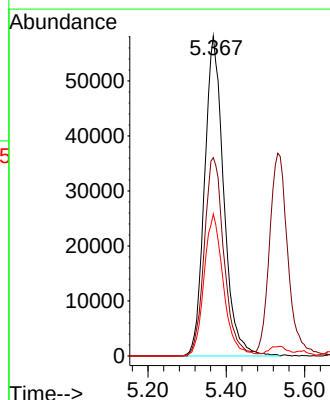
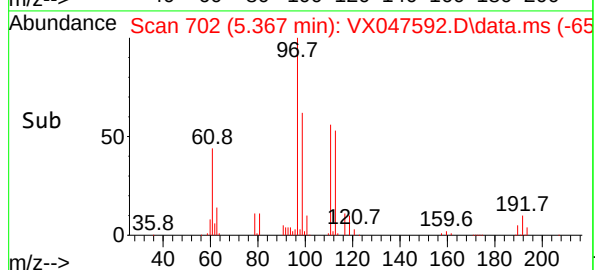
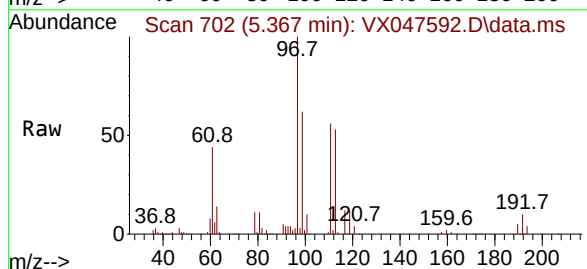
Manual Integrations
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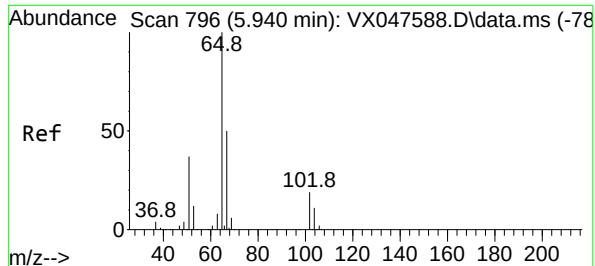
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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# 796

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

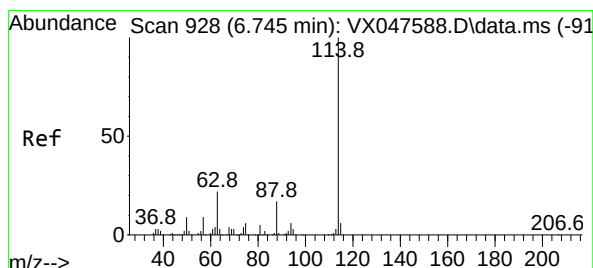
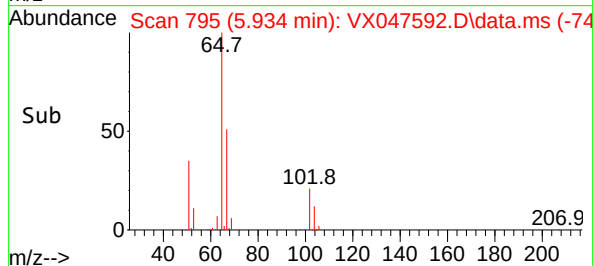
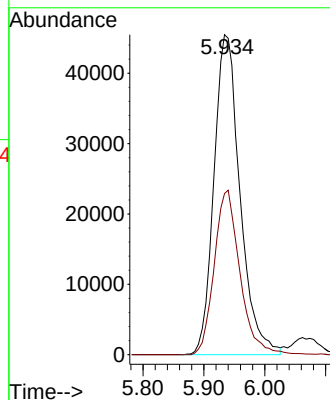
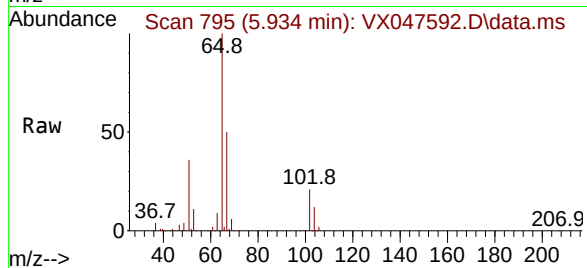
67 50.8 0.0 103.0

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

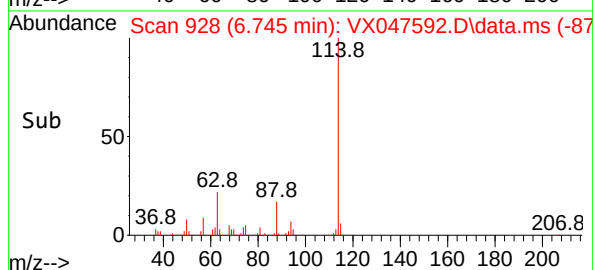
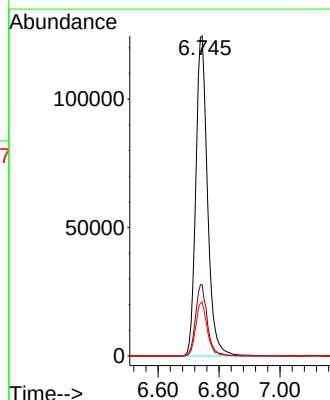
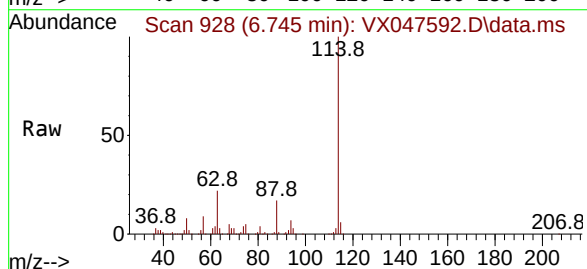
Tgt Ion:114 Resp: 331837

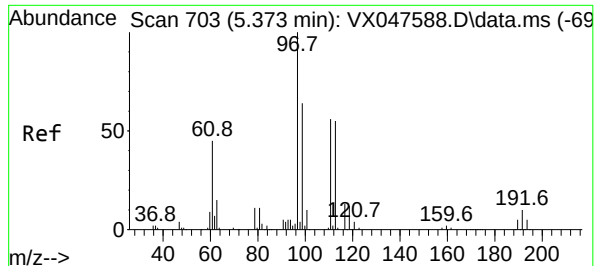
Ion Ratio Lower Upper

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

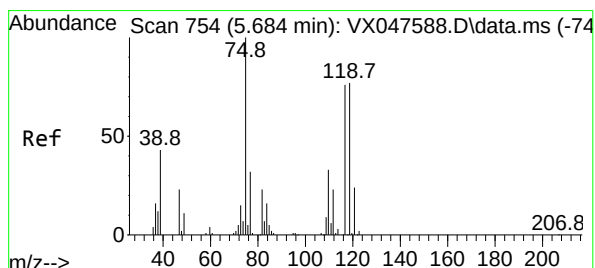
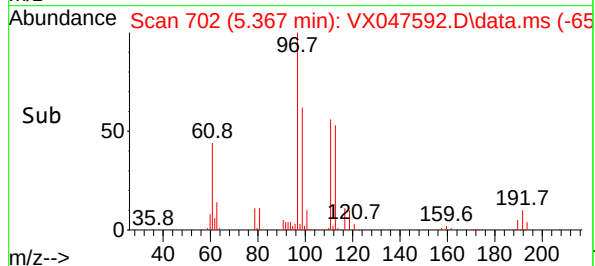
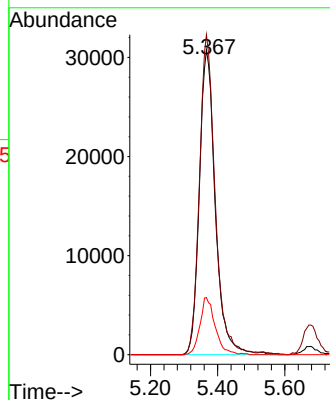
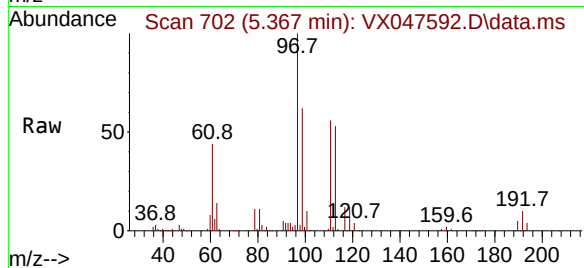
192 17.9 14.2 21.4

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

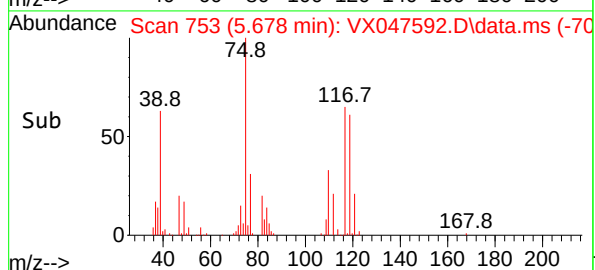
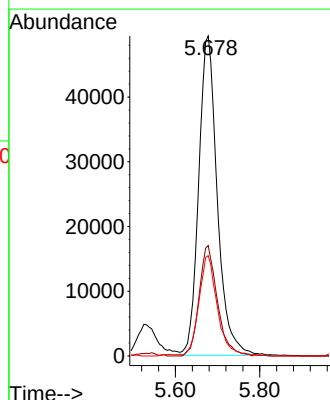
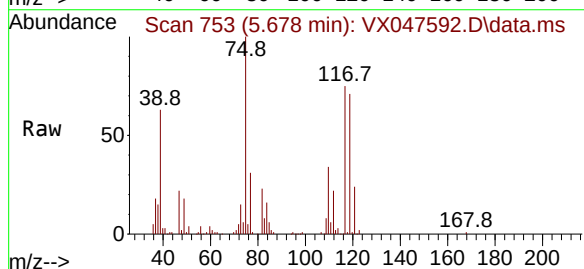
Tgt Ion: 75 Resp: 151745

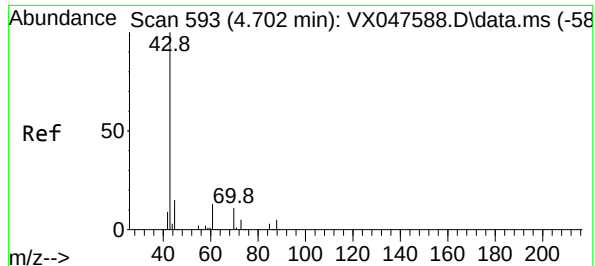
Ion Ratio Lower Upper

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 :

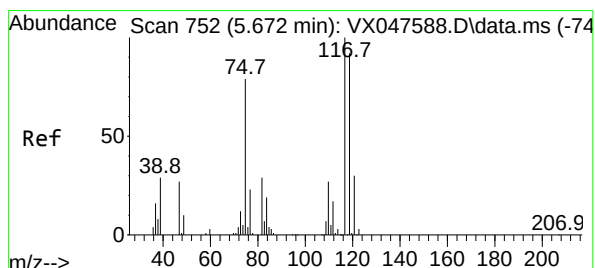
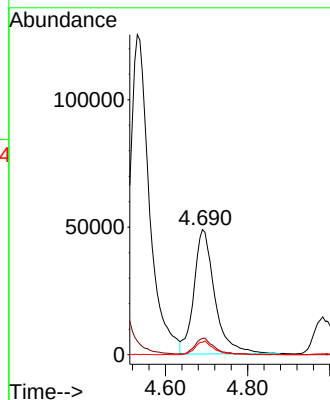
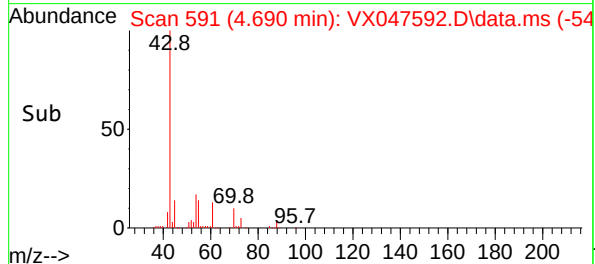
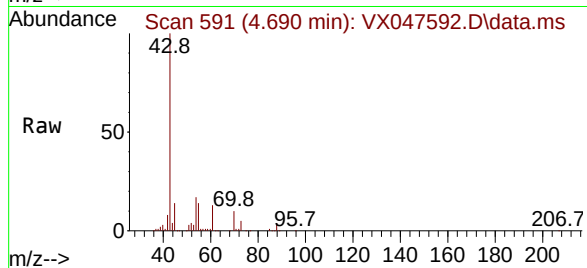
ICVVX091625

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

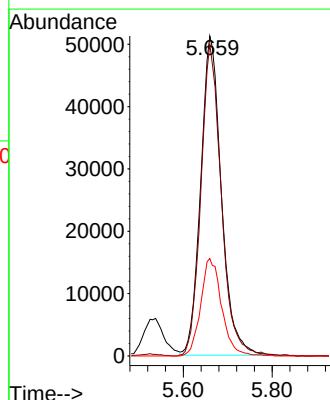
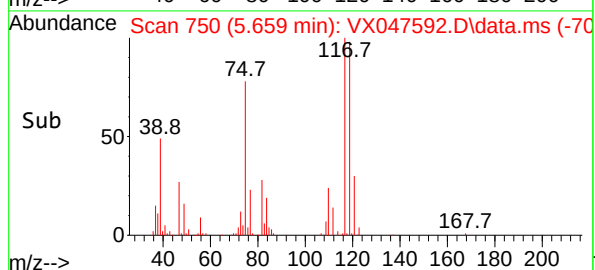
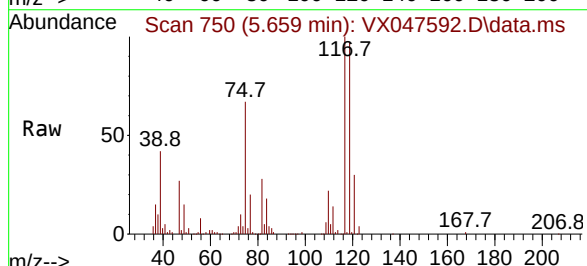
RT: 5.659 min Scan# 750

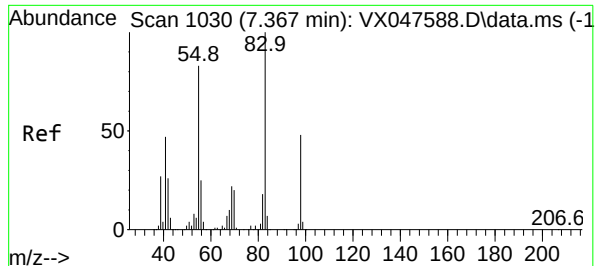
Delta R.T. -0.012 min

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 :

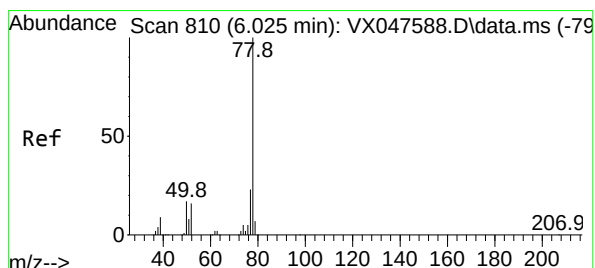
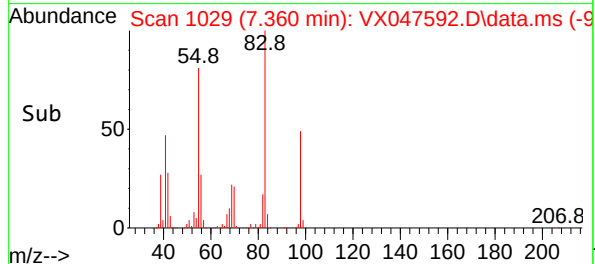
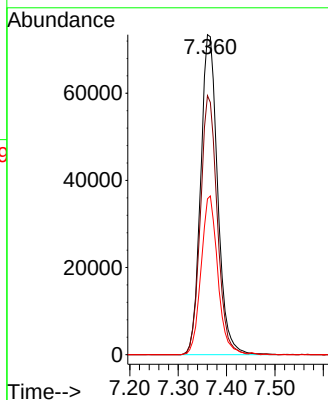
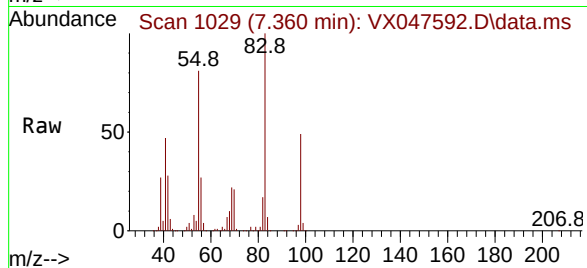
ICVVX091625

Tgt Ion:	83	Resp:	17939
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

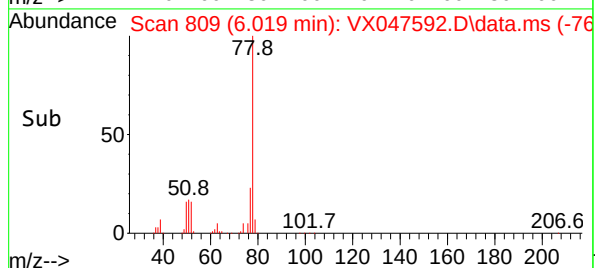
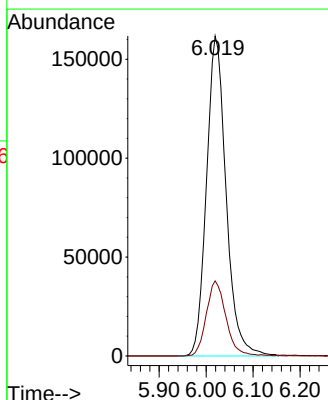
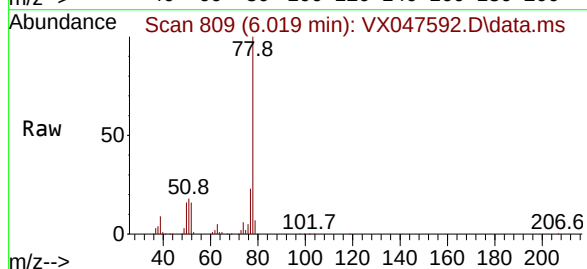
RT: 6.019 min Scan# 809

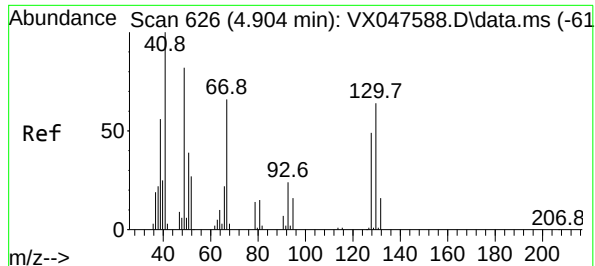
Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

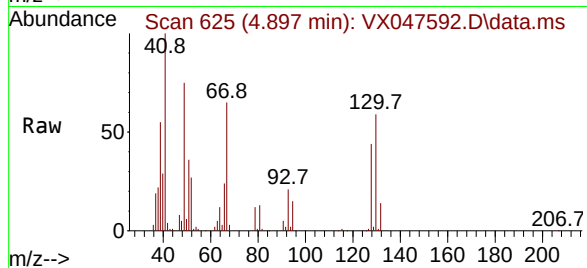
Tgt Ion:	78	Resp:	467748
Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2





#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

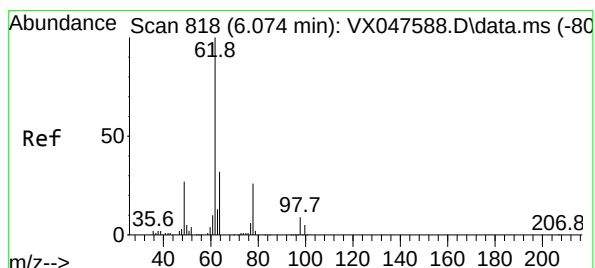
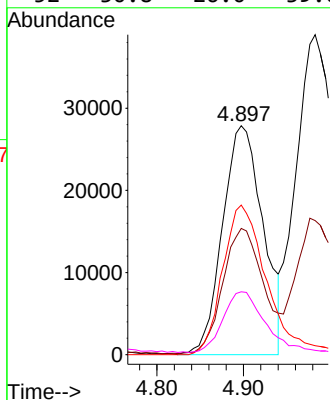
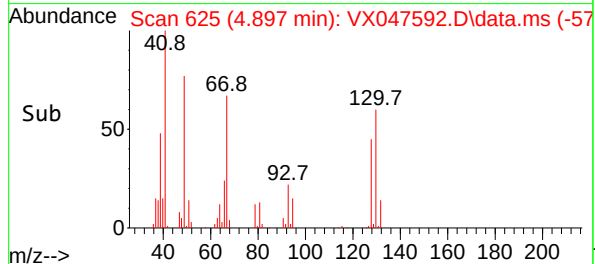
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



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

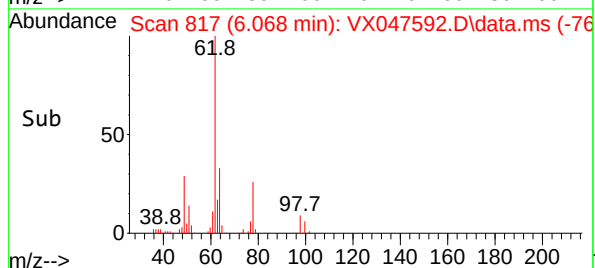
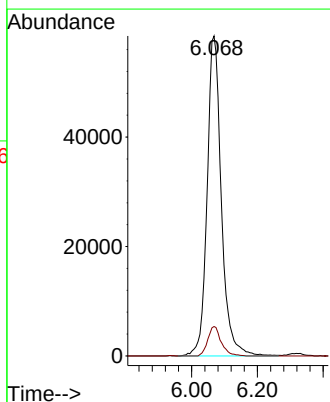
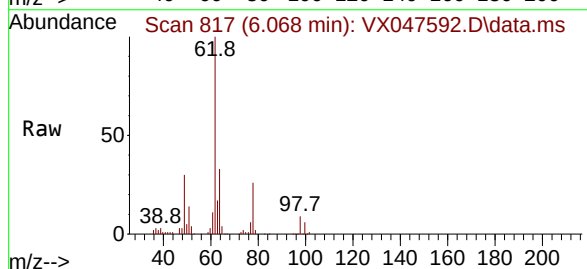
Manual Integrations
APPROVED

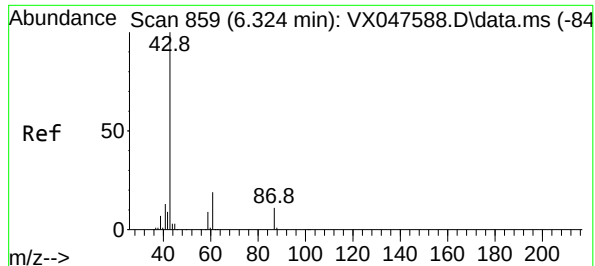
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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# 859

Delta R.T. -0.006 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

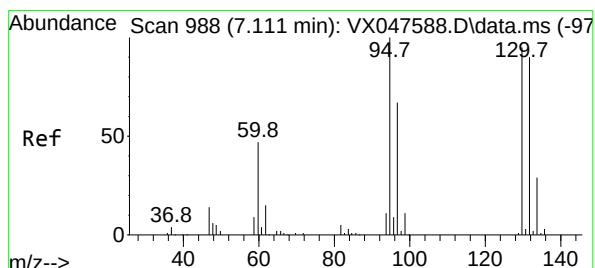
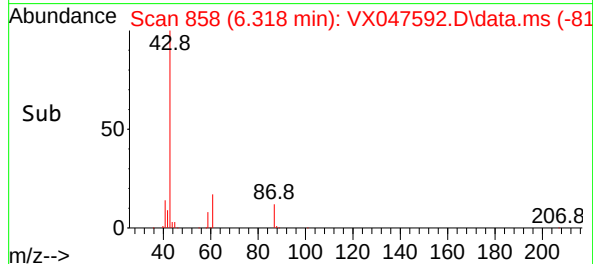
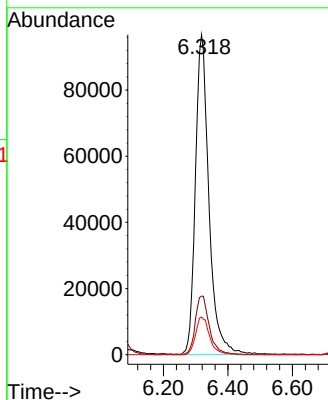
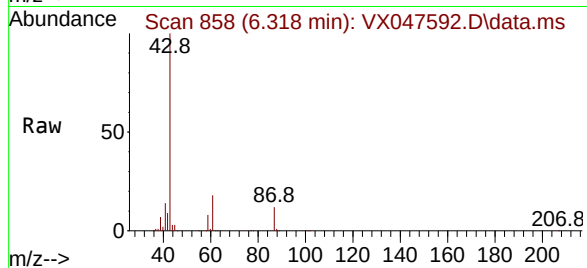
ICVVX091625

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

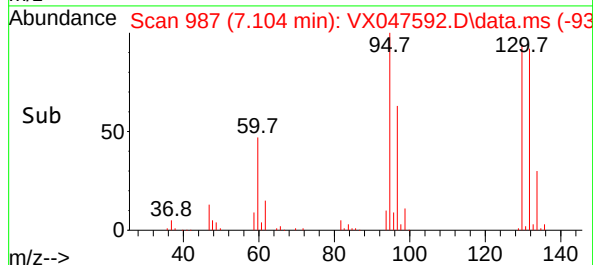
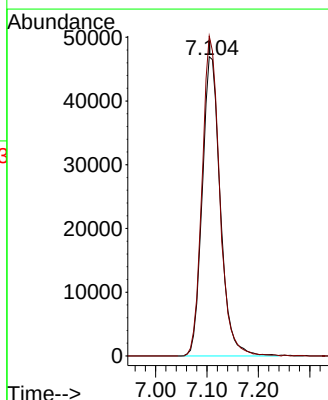
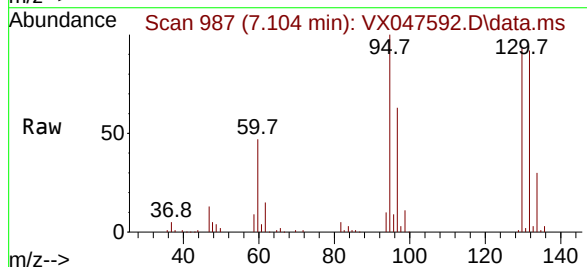
RT: 7.104 min Scan# 987

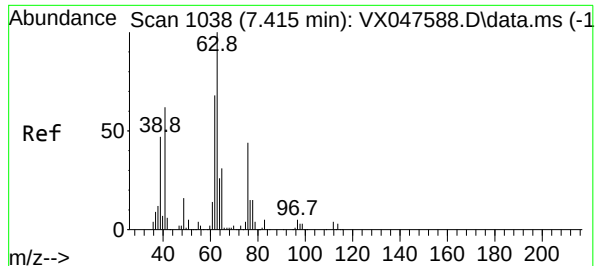
Delta R.T. -0.006 min

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 :

ICVX091625

Tgt Ion: 63 Resp: 12153

Ion Ratio Lower Upper

63 100

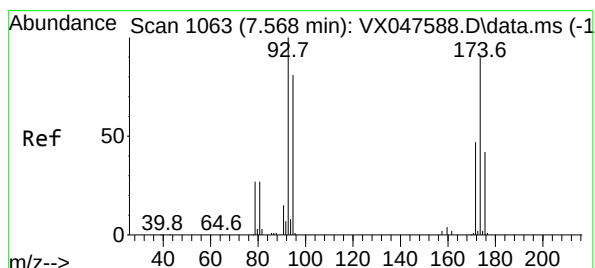
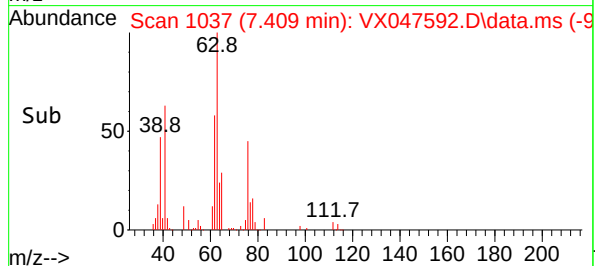
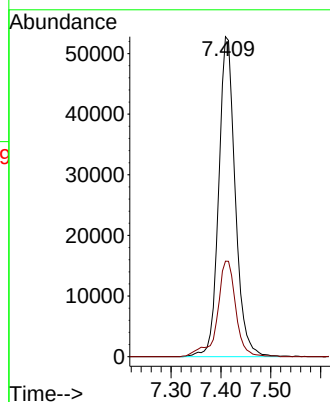
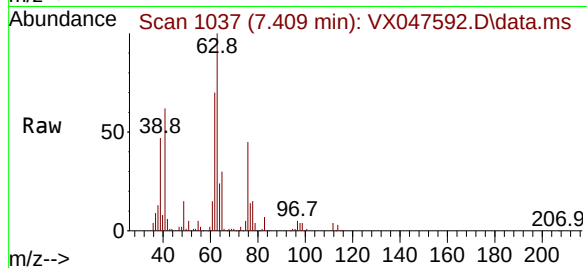
65 29.8 24.7 37.1

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

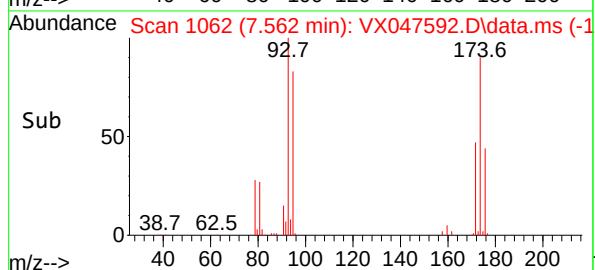
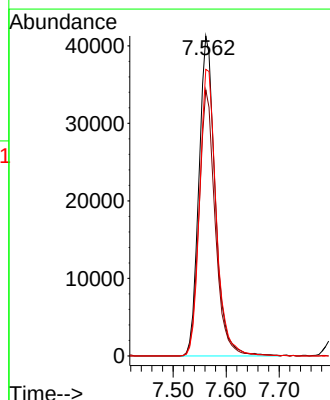
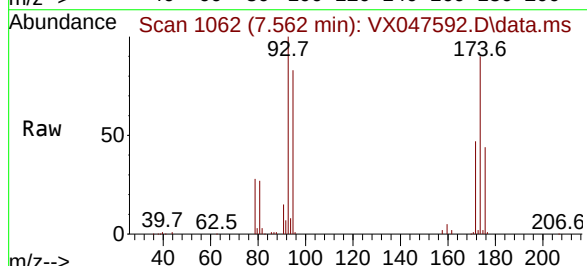
Tgt Ion: 93 Resp: 88297

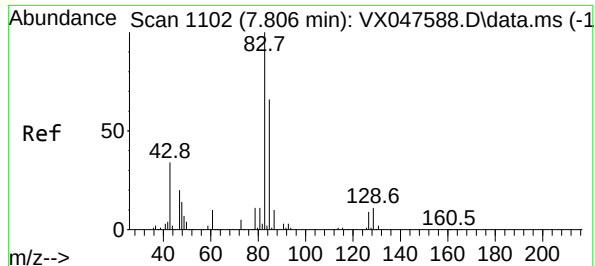
Ion Ratio Lower Upper

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 :

ICVVX091625

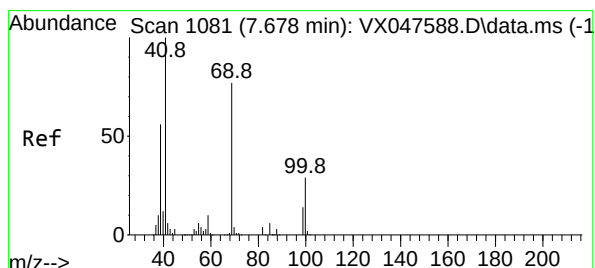
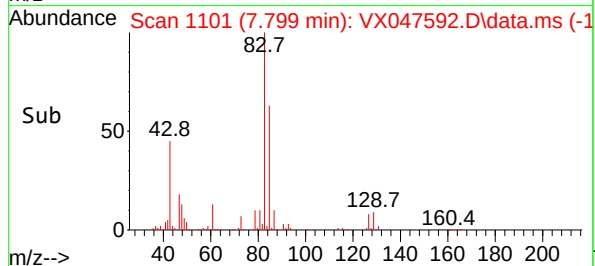
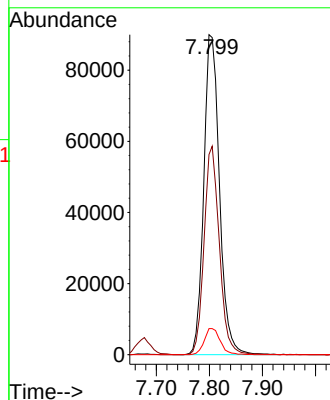
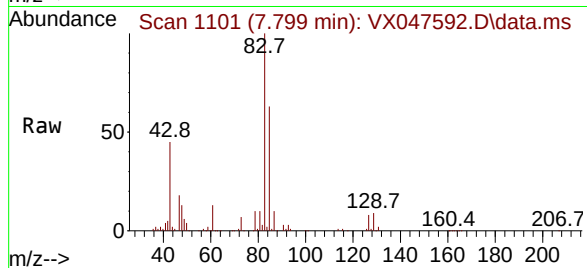
Tgt Ion:	83	Resp:	185219
Ion	Ratio	Lower	Upper
83	100		
85	62.5	52.5	78.7
127	8.1	6.9	10.3

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

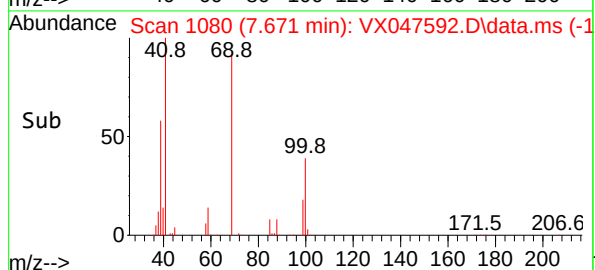
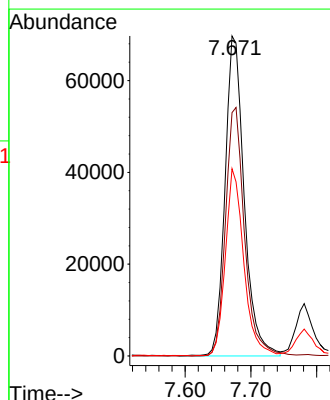
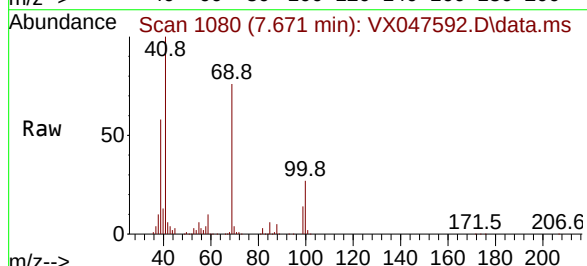
RT: 7.671 min Scan# 1080

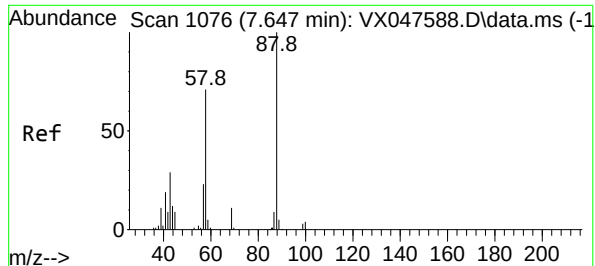
Delta R.T. -0.006 min

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 :

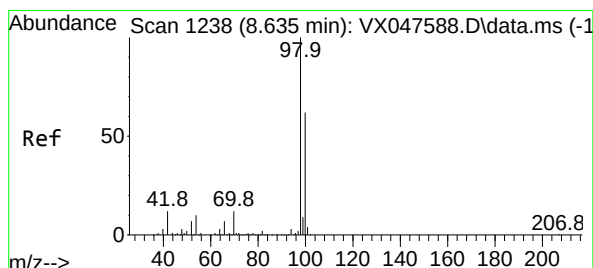
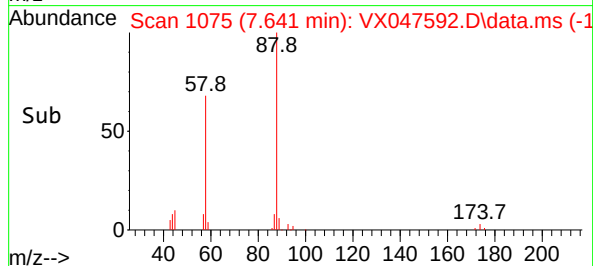
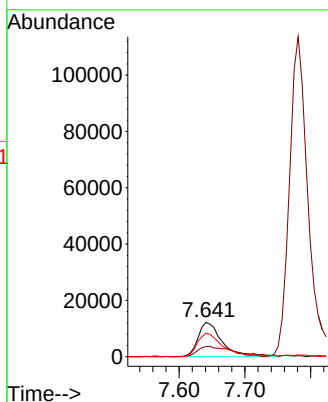
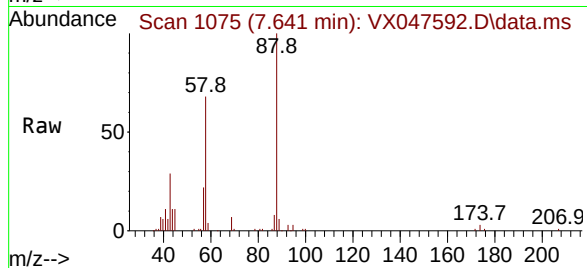
ICVX091625

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

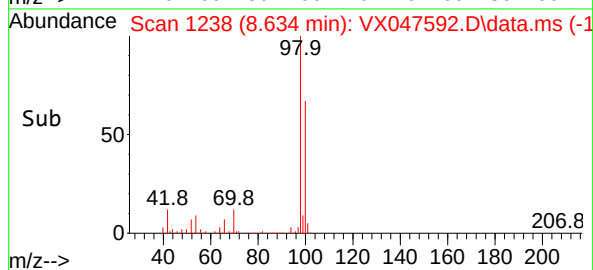
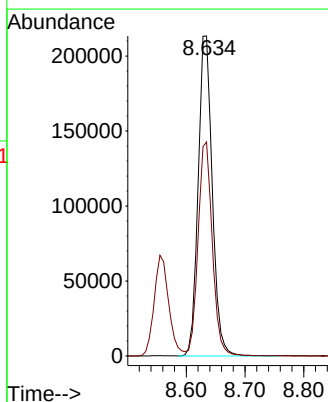
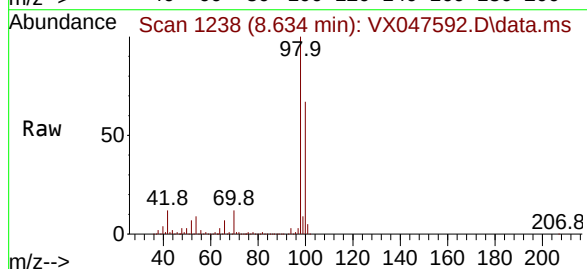
RT: 8.634 min Scan# 1238

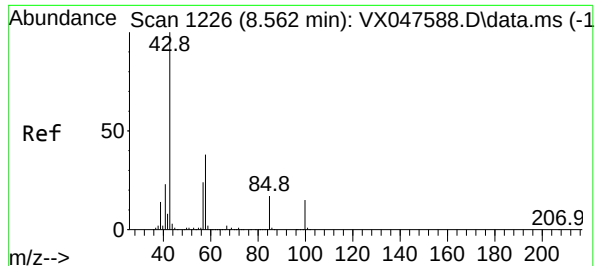
Delta R.T. -0.000 min

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

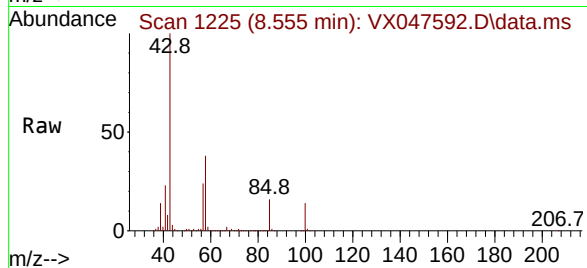
Acq: 16 Sep 2025 13:35

Instrument :

MSVOA_X

ClientSampleId :

ICVVX091625



Tgt Ion: 43 Resp: 80975

Ion Ratio Lower Upper

43 100

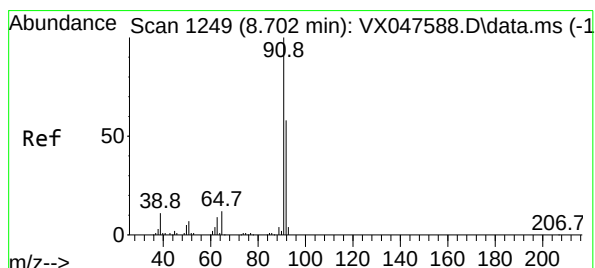
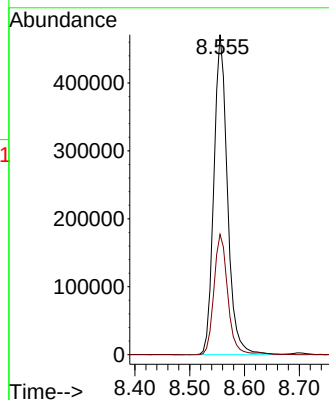
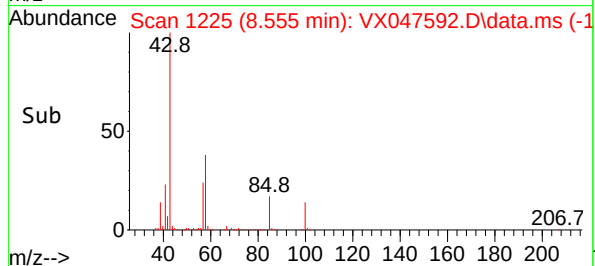
58 37.9 30.3 45.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 09/17/2025

Supervised By :Mahesh Dadoda 09/18/2025



#52

Toluene

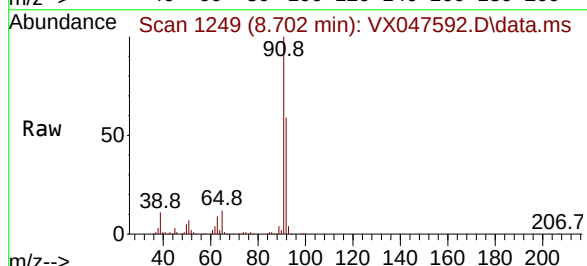
Concen: 48.130 ug/l

RT: 8.702 min Scan# 1249

Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

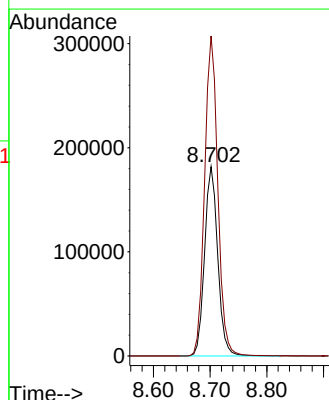
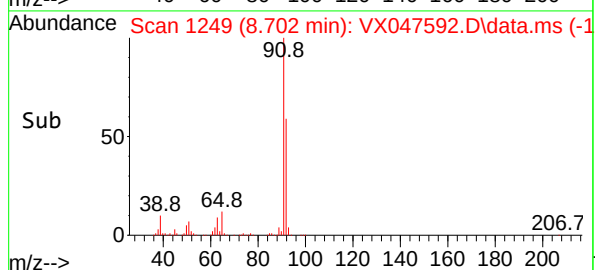


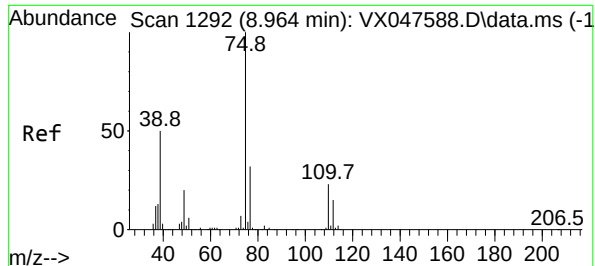
Tgt Ion: 92 Resp: 292879

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

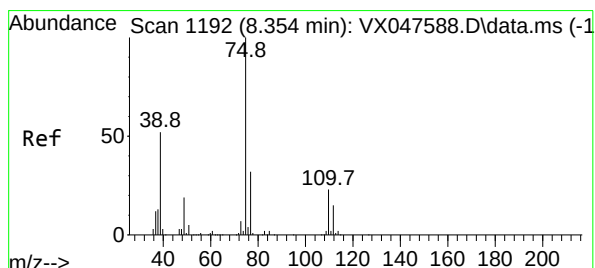
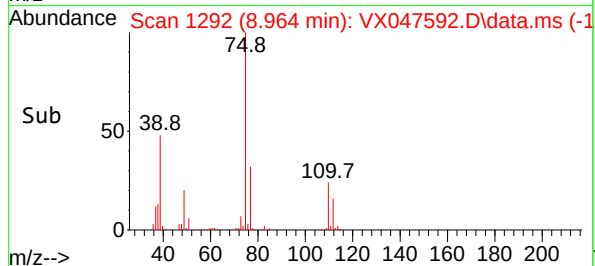
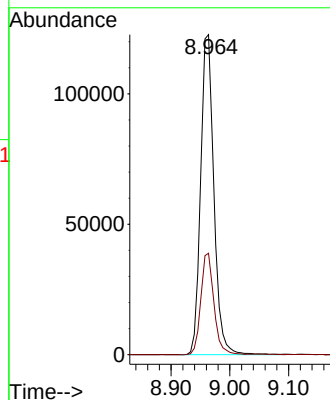
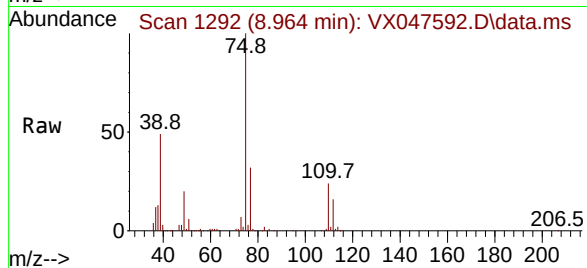
77 31.7 25.4 38.2

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

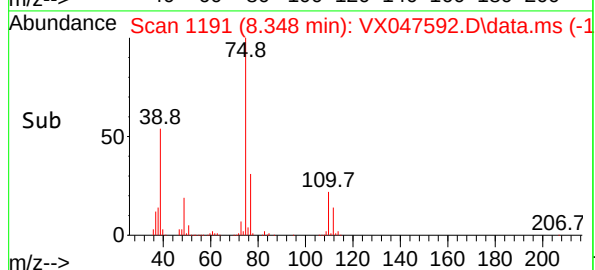
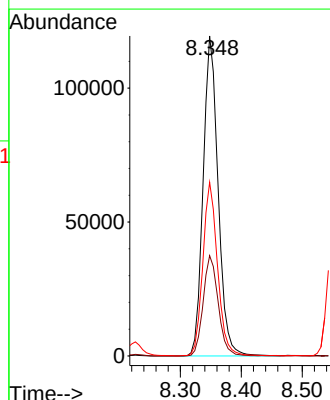
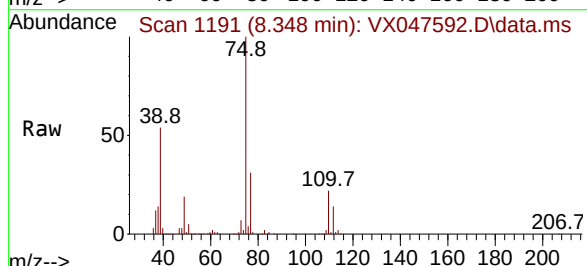
Tgt Ion: 75 Resp: 203954

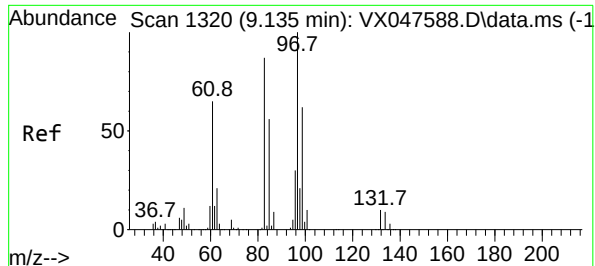
Ion Ratio Lower Upper

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 :

ICVVX091625

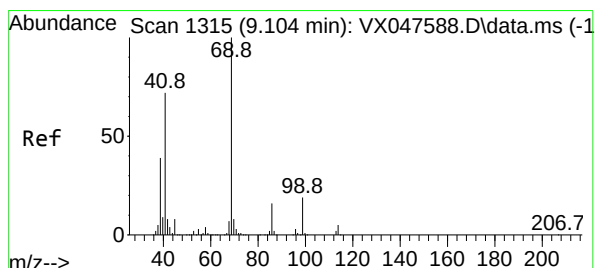
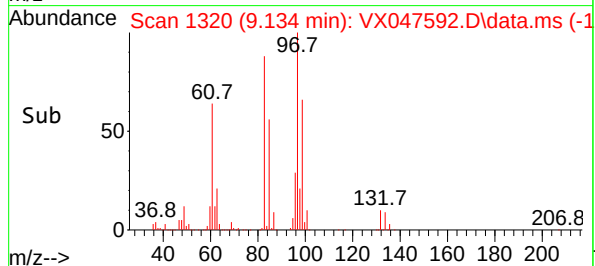
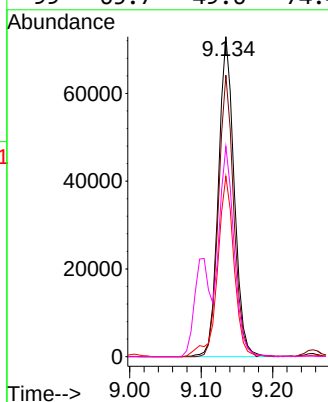
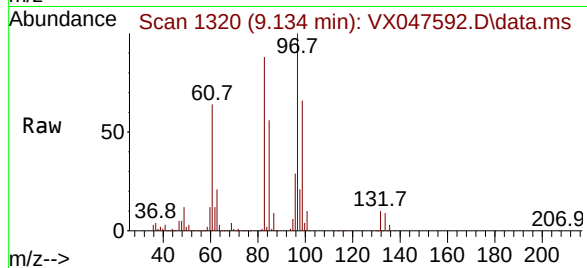
Tgt Ion	Ratio	Lower	Upper
97	100		
83	87.9	69.6	104.4
85	56.4	45.0	67.6
99	65.7	49.6	74.4

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

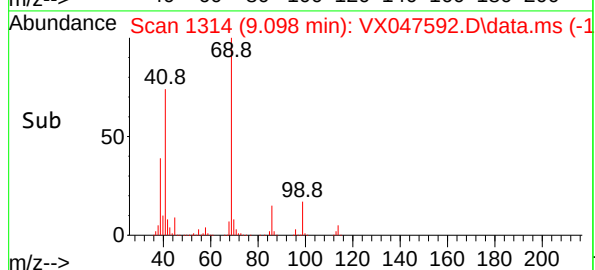
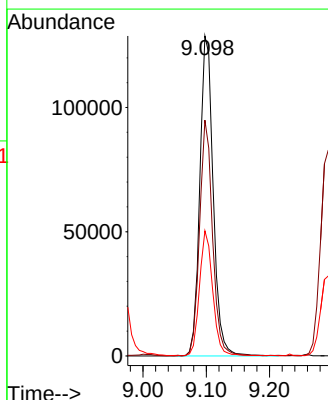
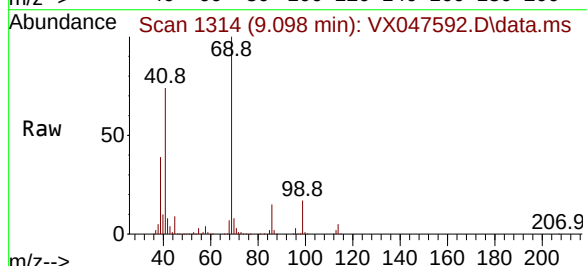
RT: 9.098 min Scan# 1314

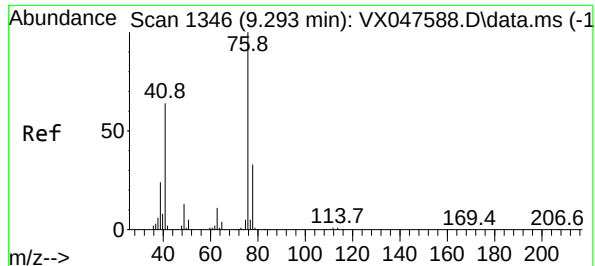
Delta R.T. -0.006 min

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# 1171

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

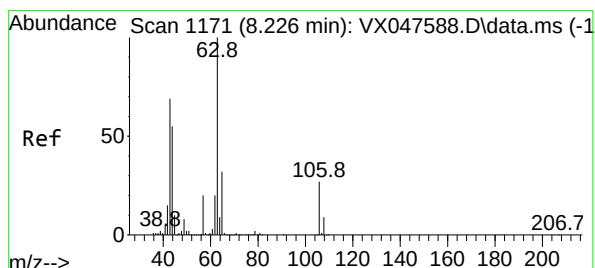
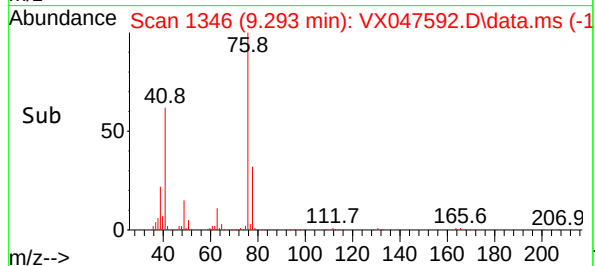
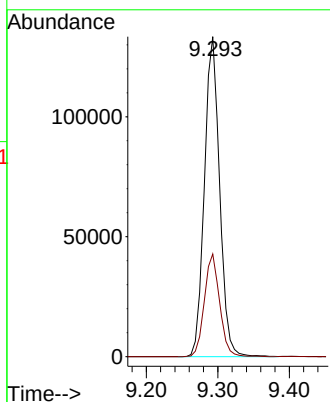
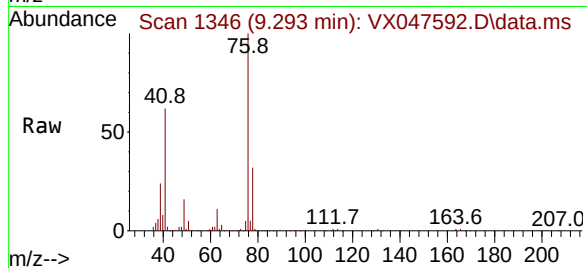
78 32.2 26.2 39.4

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

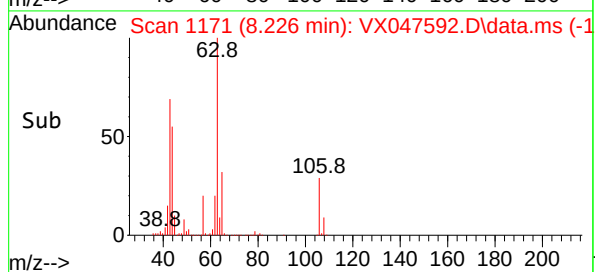
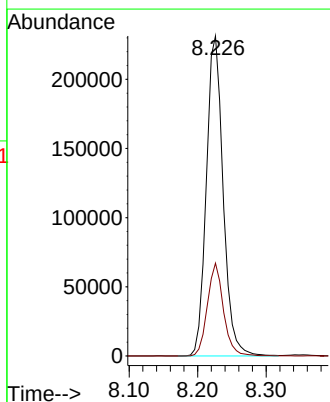
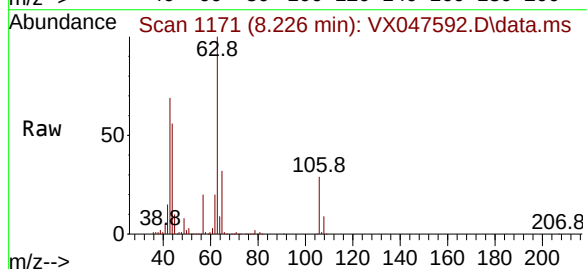
Acq: 16 Sep 2025 13:35

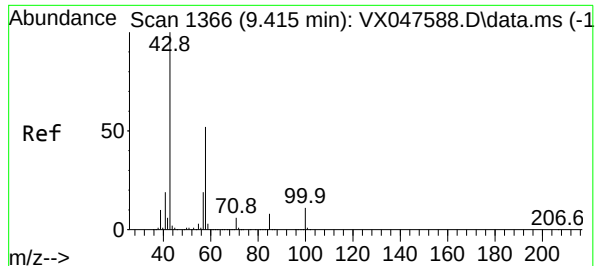
Tgt Ion: 63 Resp: 394205

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 :

ICVX091625

Tgt Ion: 43 Resp: 57559

Ion Ratio Lower Upper

43 100

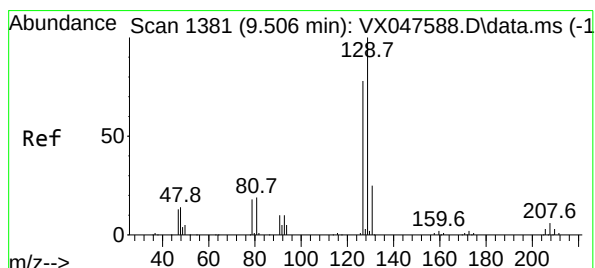
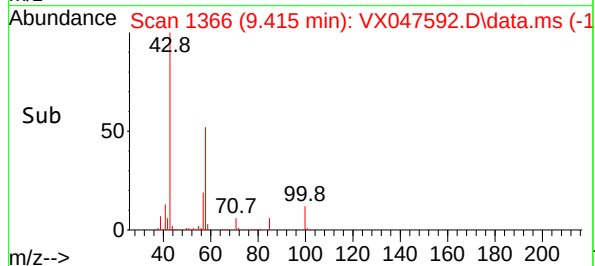
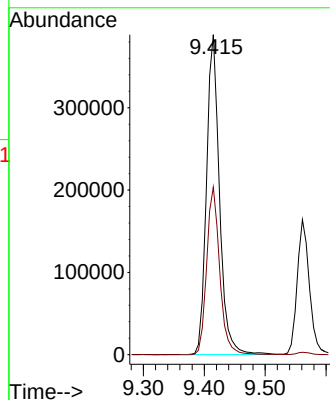
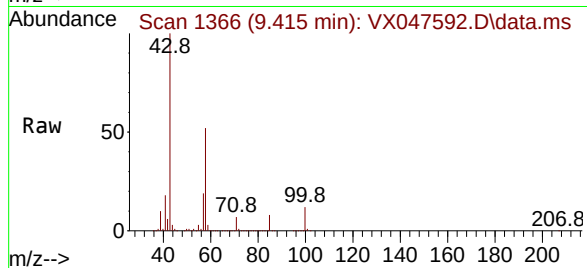
58 52.6 26.1 78.2

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

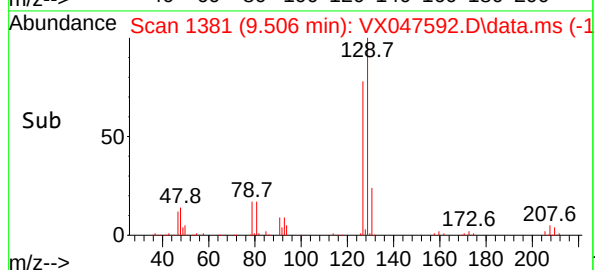
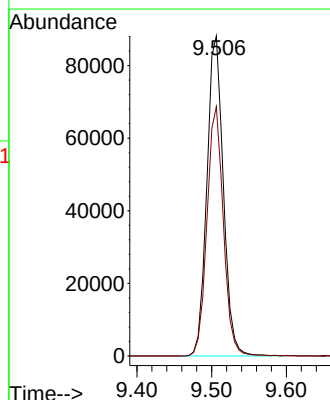
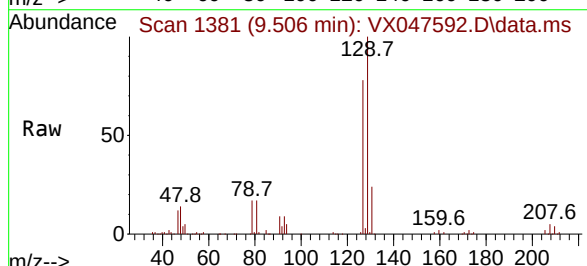
Acq: 16 Sep 2025 13:35

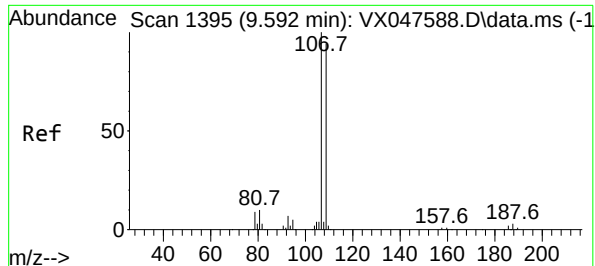
Tgt Ion:129 Resp: 134704

Ion Ratio Lower Upper

129 100

127 77.8 38.4 115.2





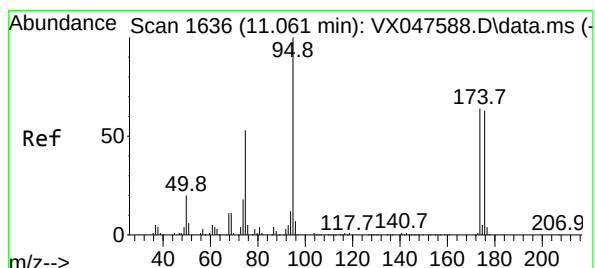
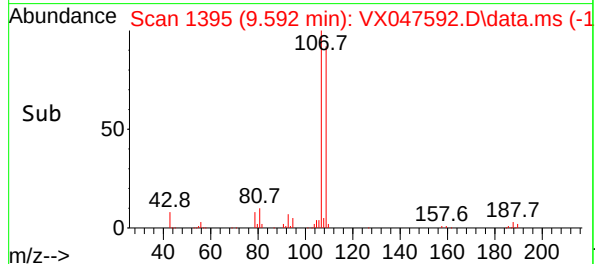
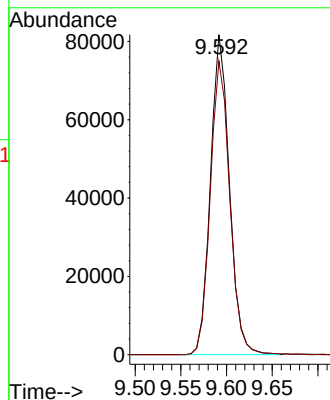
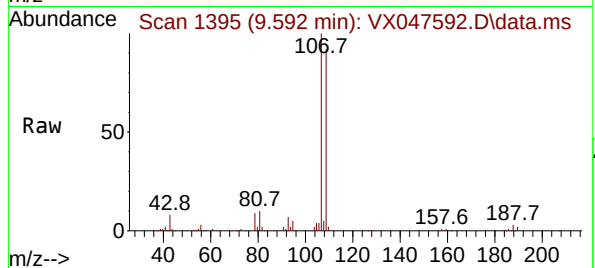
#61
1,2-Dibromoethane
Concen: 49.297 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion: 107 Resp: 11781
Ion Ratio Lower Upper
107 100
109 94.6 75.3 112.9

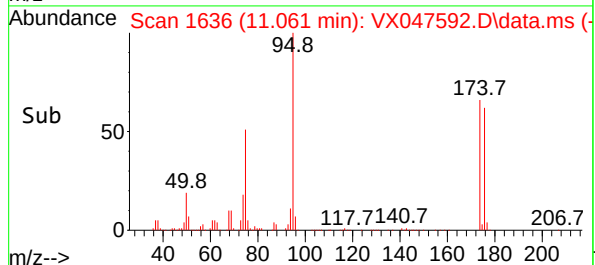
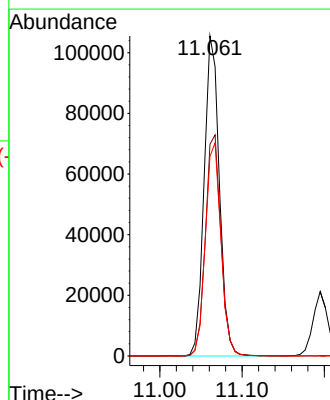
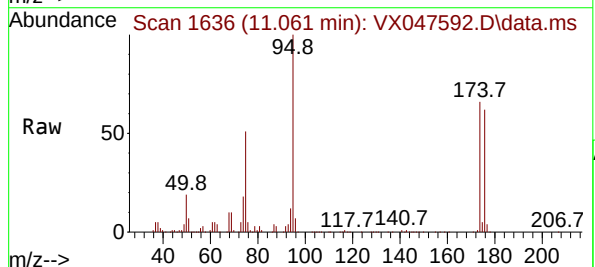
Manual Integrations
APPROVED

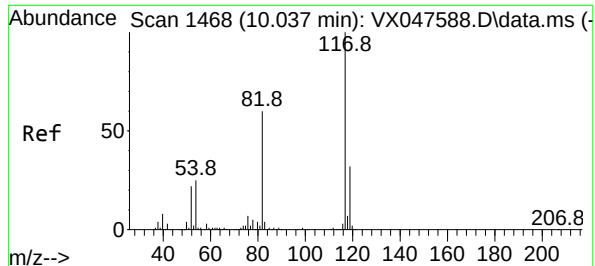
Reviewed By : John Carlone 09/17/2025
Supervised By : Mahesh Dadoda 09/18/2025



#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

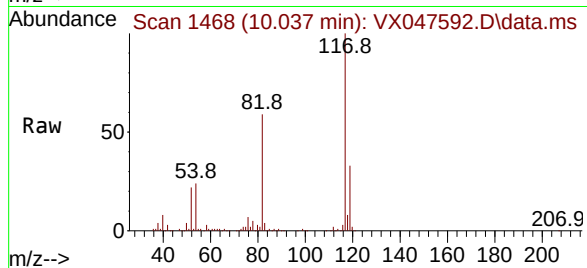
Tgt Ion: 95 Resp: 135957
Ion Ratio Lower Upper
95 100
174 70.3 0.0 141.6
176 68.0 0.0 138.4





#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

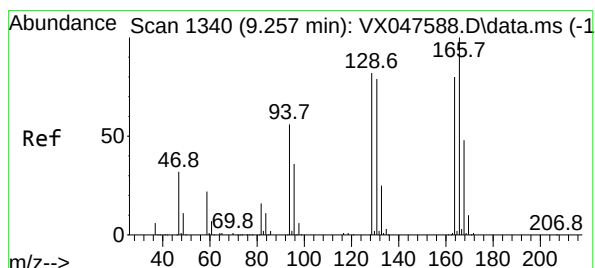
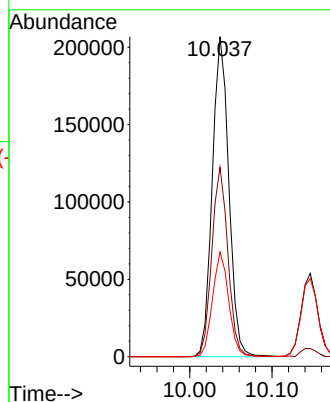
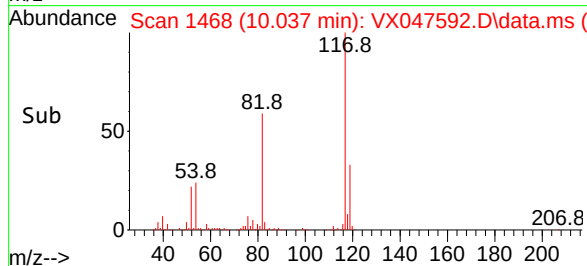
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



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

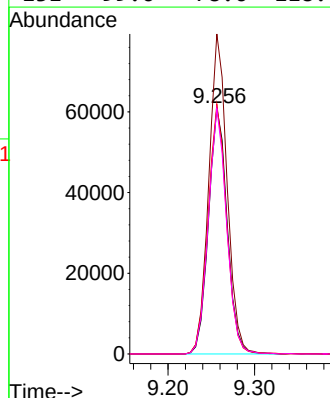
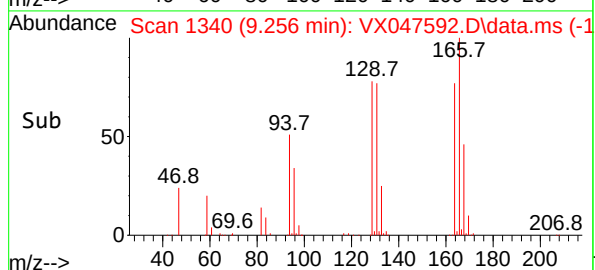
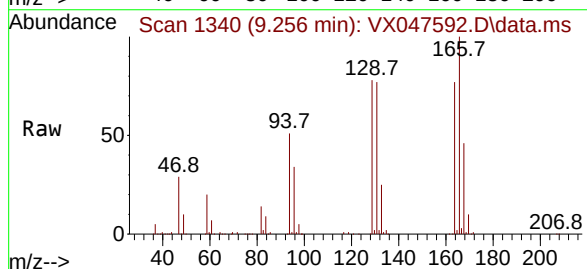
Manual Integrations
APPROVED

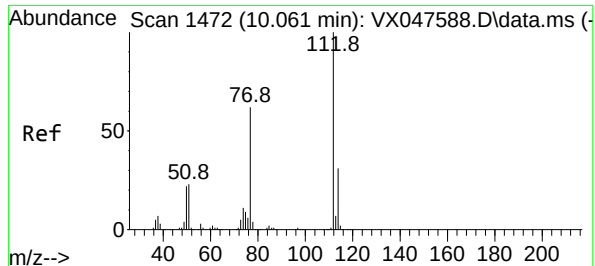
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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





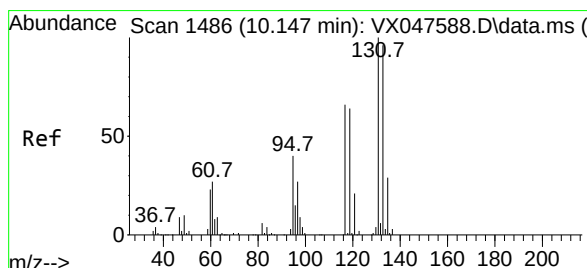
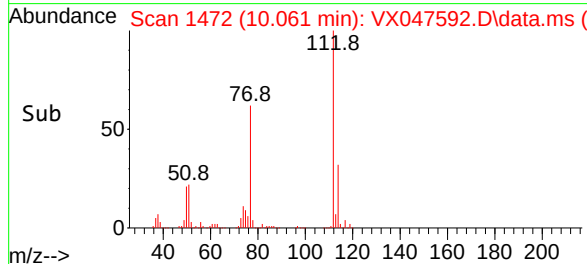
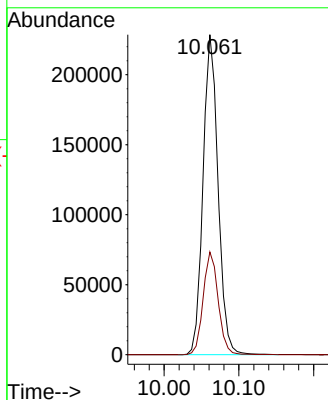
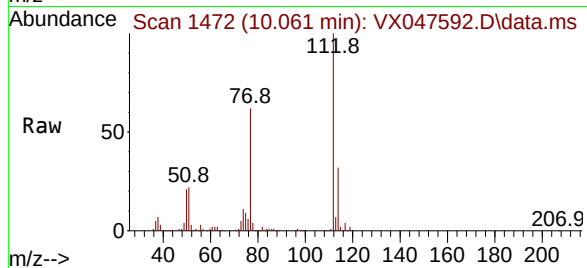
#65
Chlorobenzene
Concen: 48.549 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:112 Resp: 318372
Ion Ratio Lower Upper
112 100
114 32.1 25.1 37.7

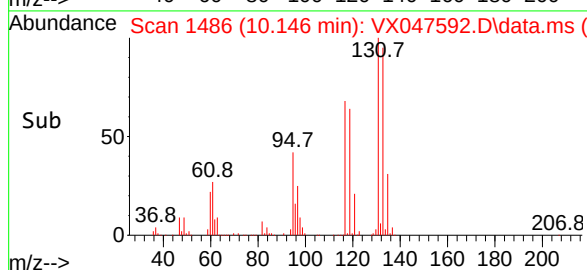
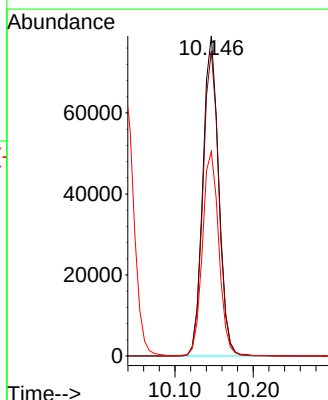
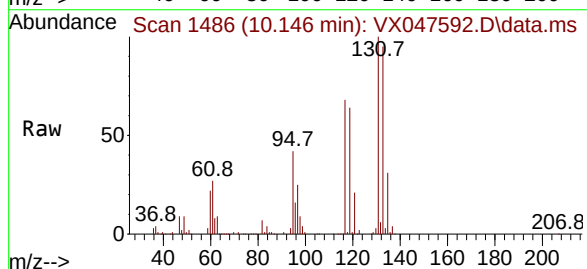
Manual Integrations
APPROVED

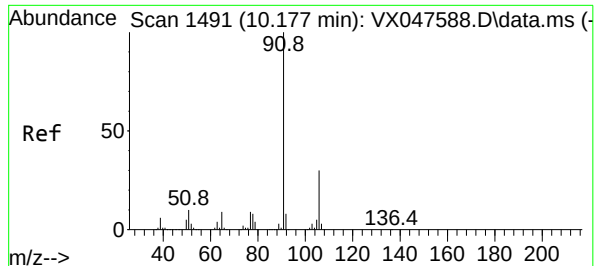
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

ICVVX091625

Tgt Ion: 91 Resp: 563634

Ion Ratio Lower Upper

91 100

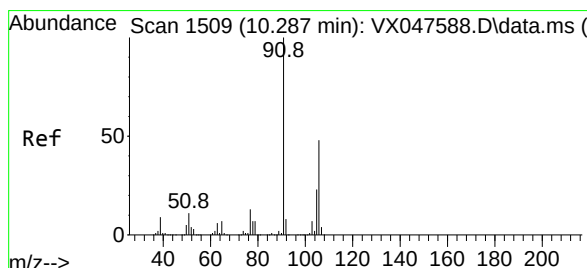
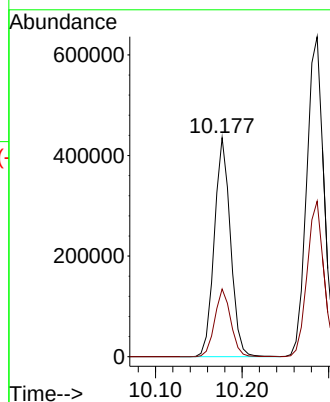
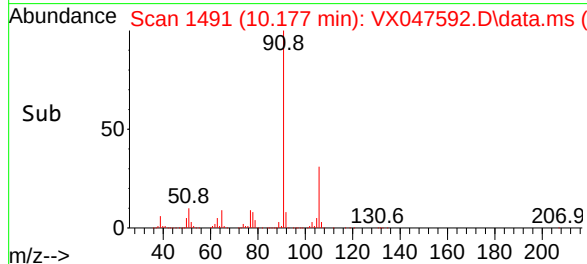
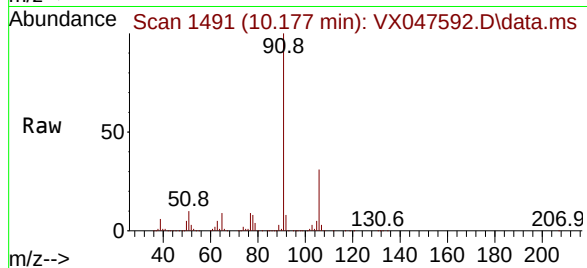
106 30.9 24.3 36.5

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

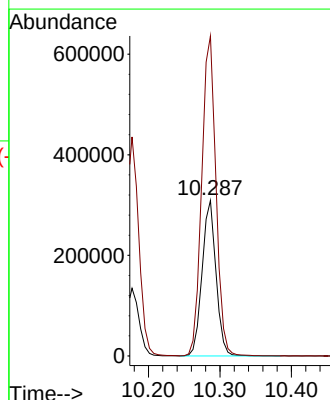
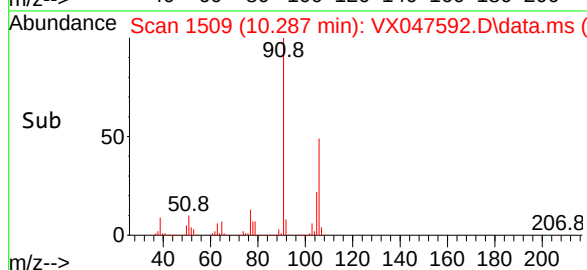
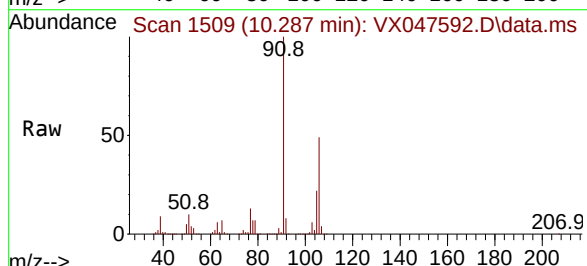
Acq: 16 Sep 2025 13:35

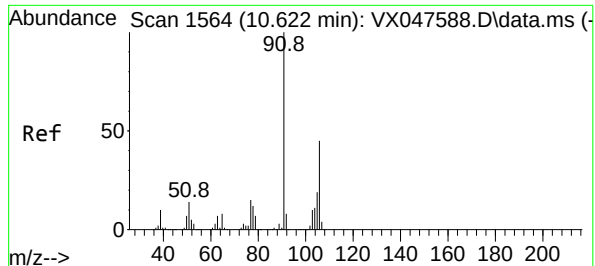
Tgt Ion:106 Resp: 416757

Ion Ratio Lower Upper

106 100

91 211.1 167.8 251.8





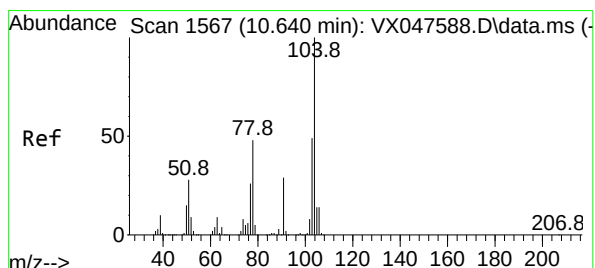
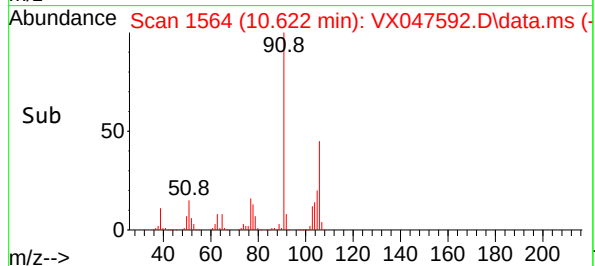
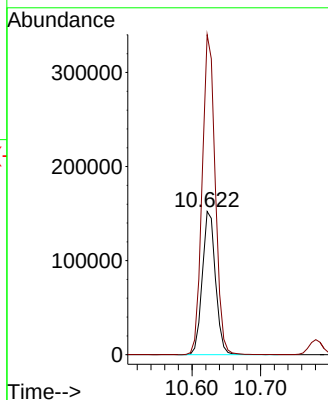
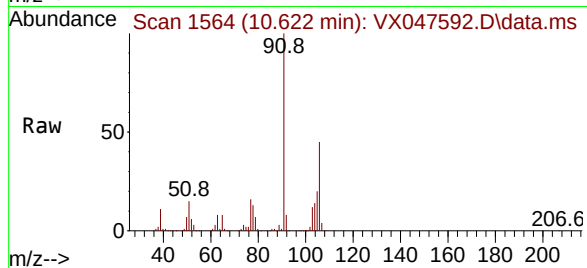
#69
o-Xylene
Concen: 50.159 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:106 Resp: 20432
Ion Ratio Lower Upper
106 100
91 221.0 111.1 333.4

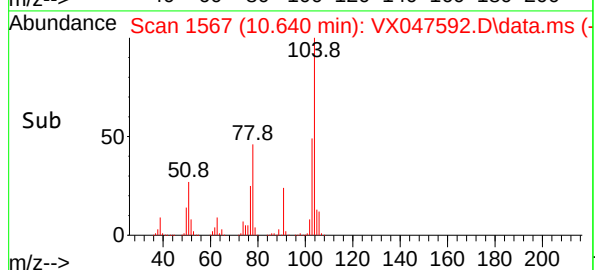
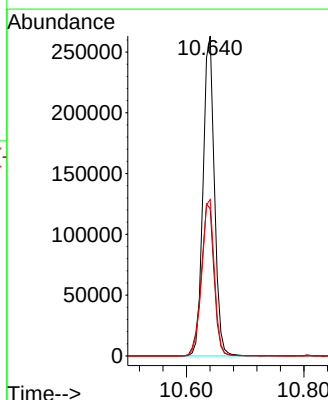
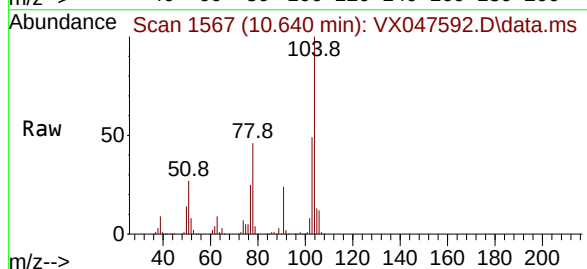
Manual Integrations
APPROVED

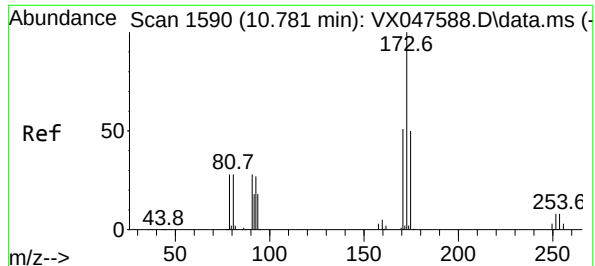
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

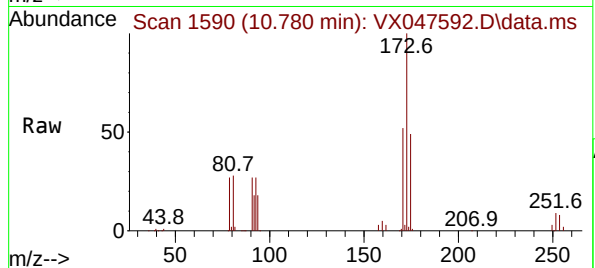
Tgt Ion:104 Resp: 353567
Ion Ratio Lower Upper
104 100
78 53.4 43.1 64.7
103 54.3 43.1 64.7





#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

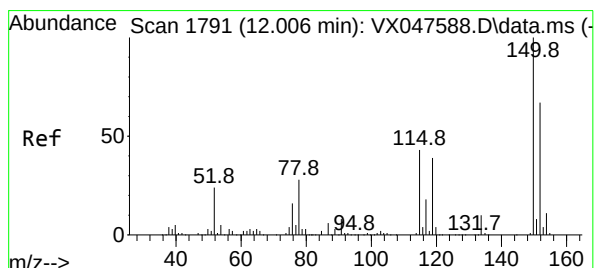
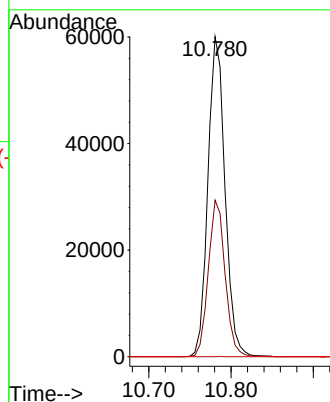
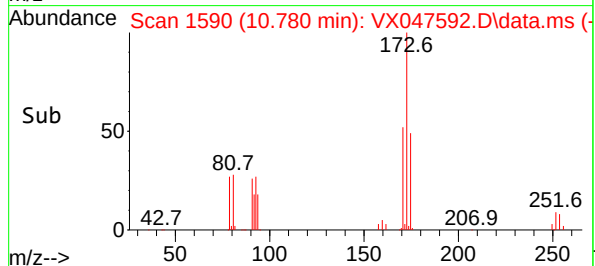
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



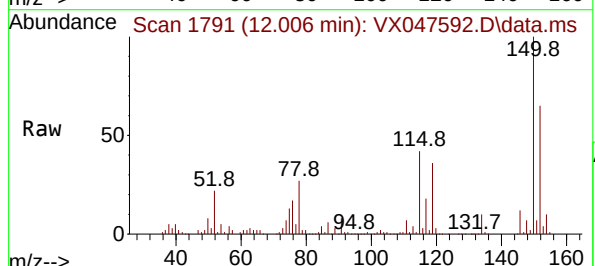
Tgt Ion:173 Resp: 86524
Ion Ratio Lower Upper
173 100
175 48.2 24.9 74.6
254 0.0 0.1 0.1

Manual Integrations
APPROVED

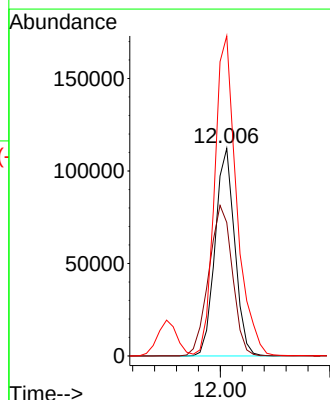
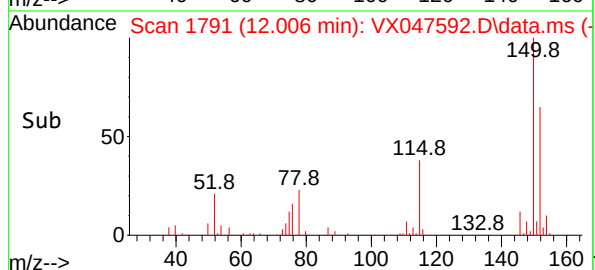
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025

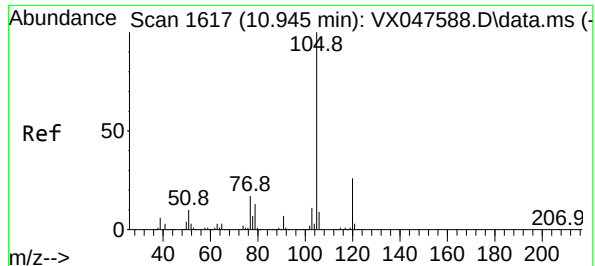


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35



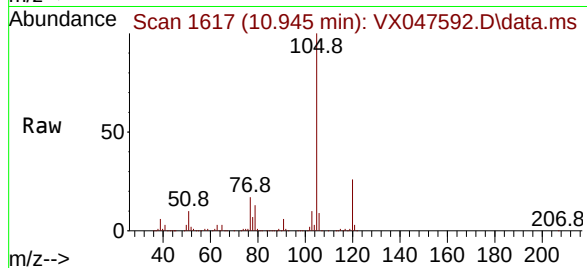
Tgt Ion:152 Resp: 139252
Ion Ratio Lower Upper
152 100
115 87.5 44.9 134.5
150 173.5 0.0 352.0





#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

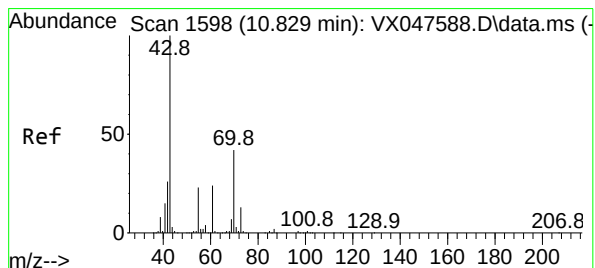
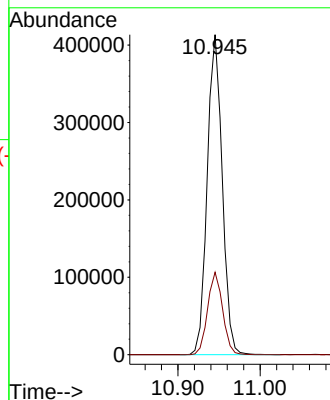
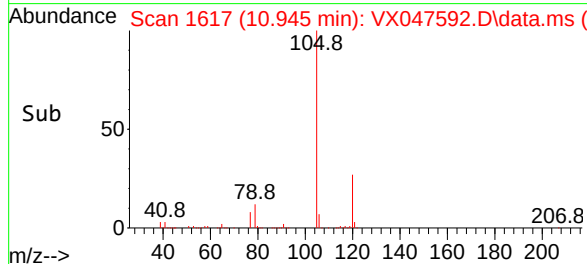
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



Tgt Ion:105 Resp: 523820
Ion Ratio Lower Upper
105 100
120 25.7 12.8 38.4

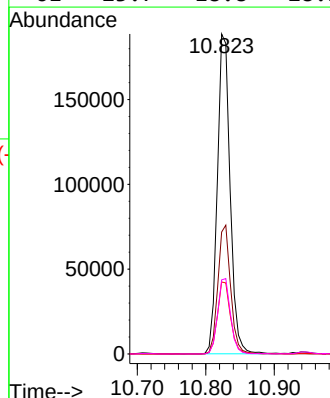
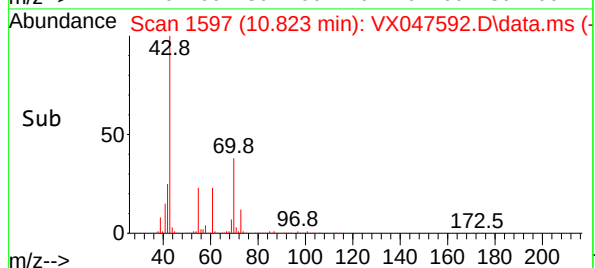
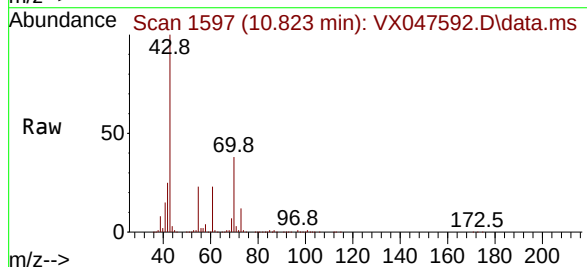
Manual Integrations
APPROVED

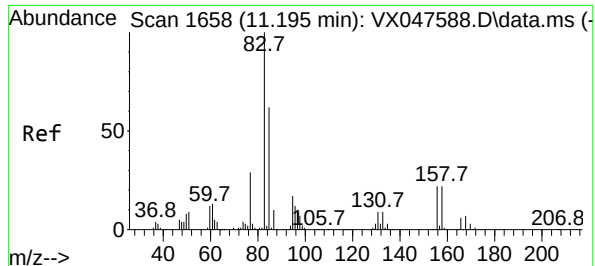
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

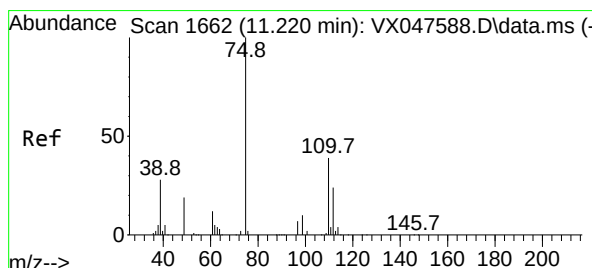
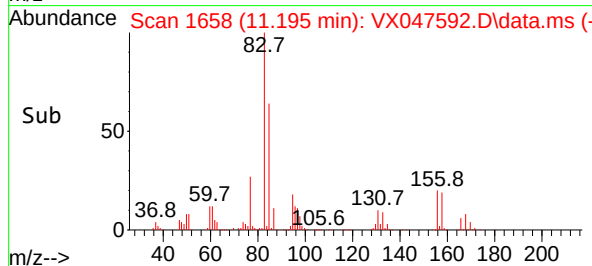
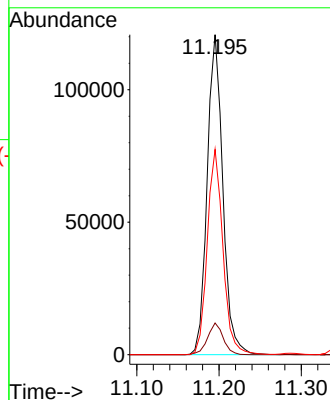
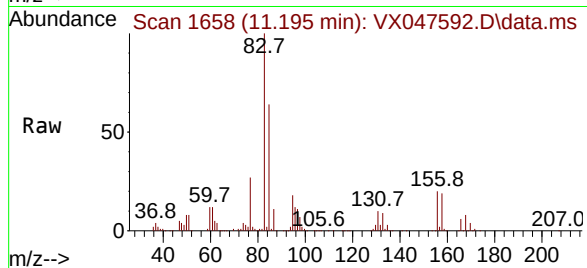
Tgt Ion:	83	Resp:	159670
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	64.2	31.6	95.0

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

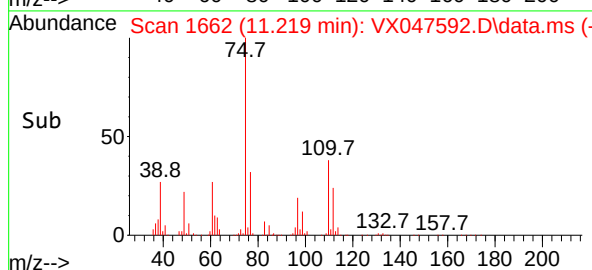
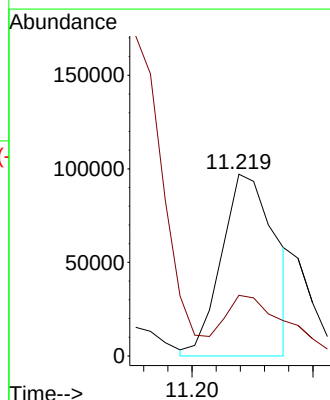
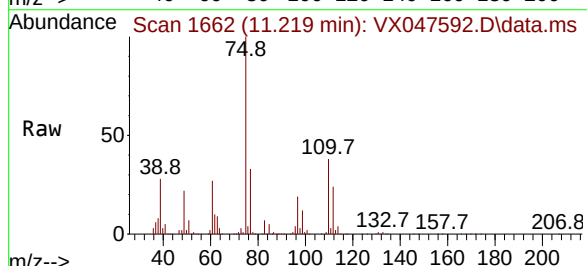
RT: 11.219 min Scan# 1662

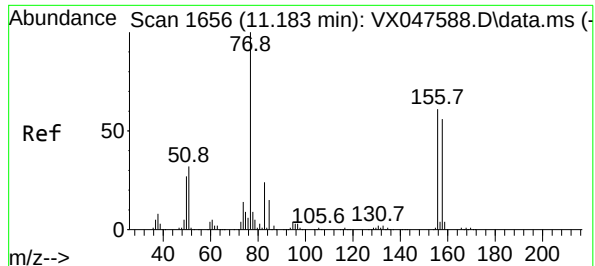
Delta R.T. -0.000 min

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





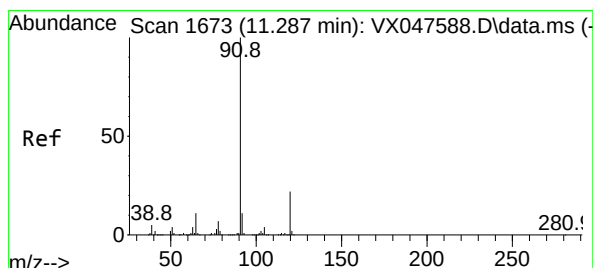
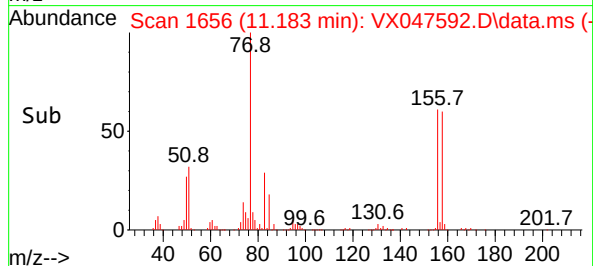
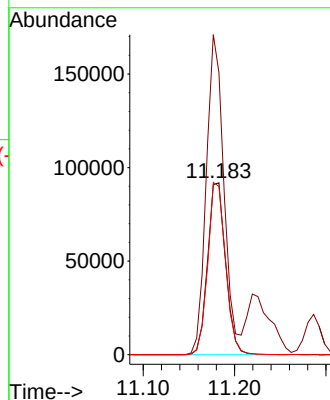
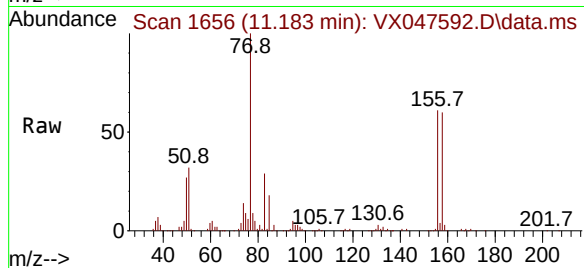
#77
Bromobenzene
Concen: 48.173 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

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

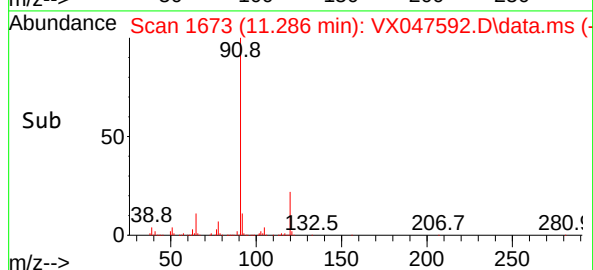
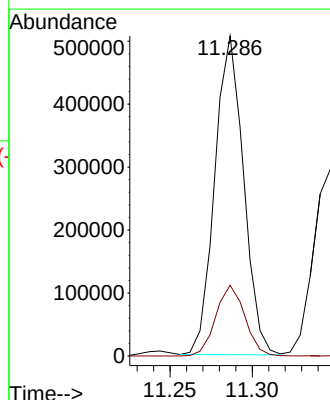
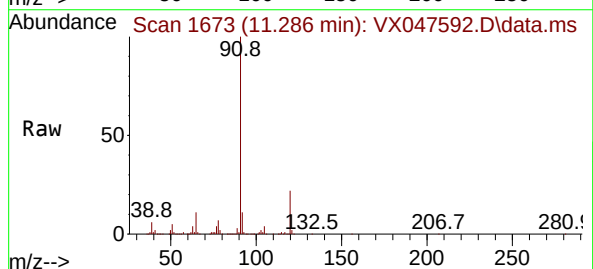
Manual Integrations
APPROVED

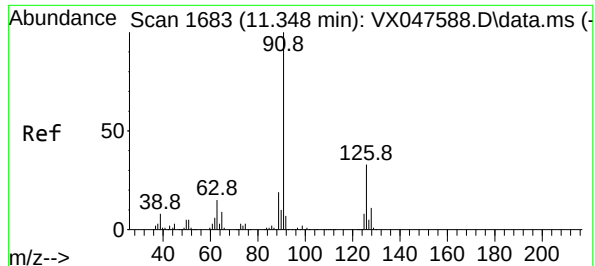
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

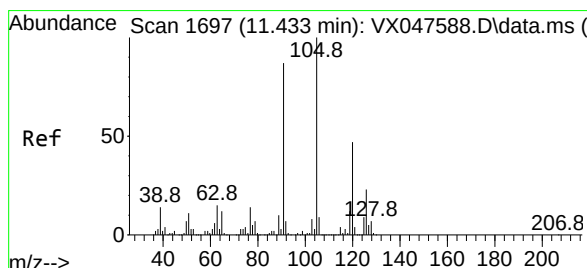
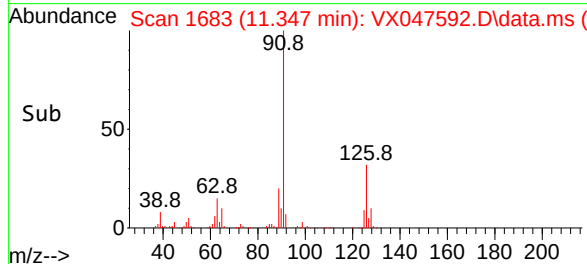
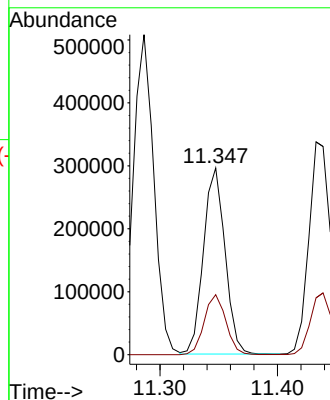
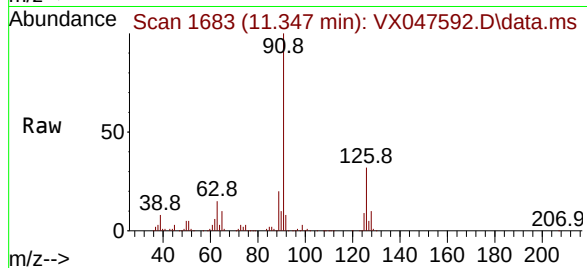
126 32.4 16.1 48.3

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

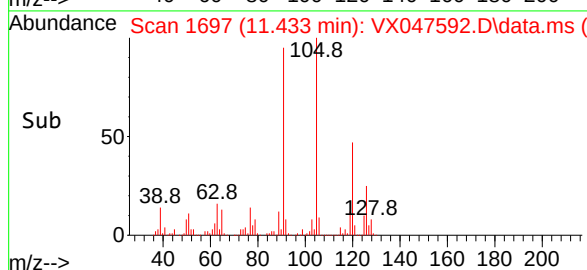
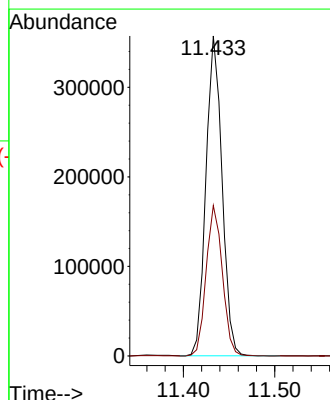
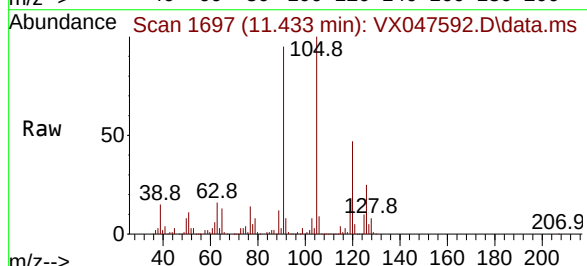
Acq: 16 Sep 2025 13:35

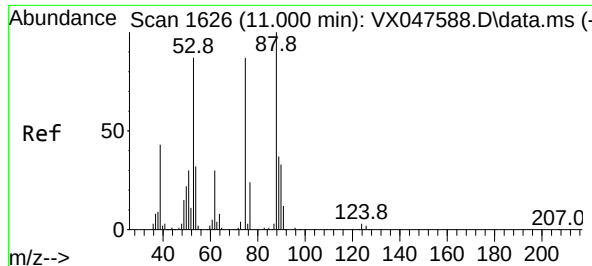
Tgt Ion:105 Resp: 435375

Ion Ratio Lower Upper

105 100

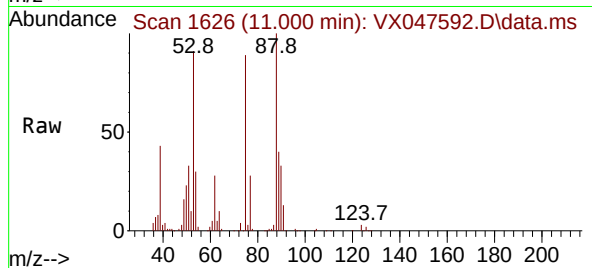
120 47.5 23.6 70.8





#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

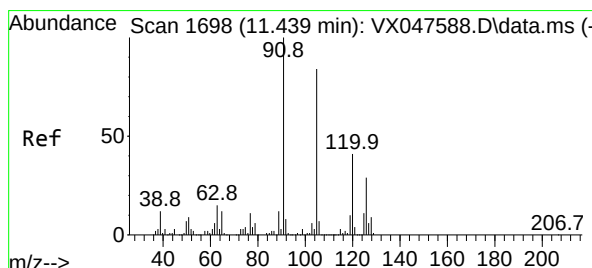
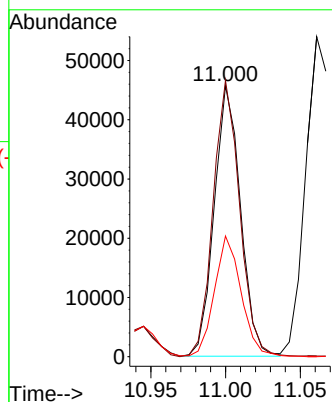
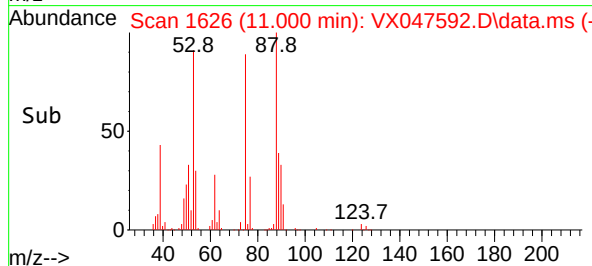
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



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

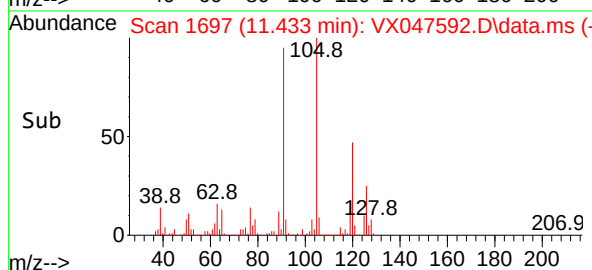
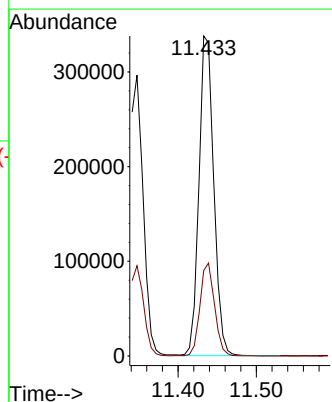
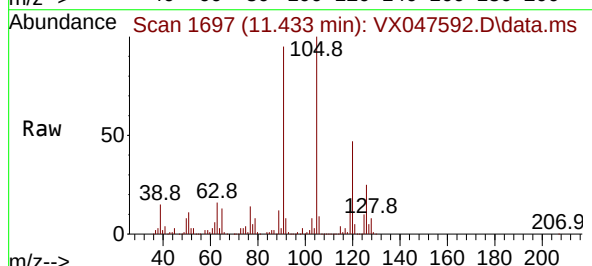
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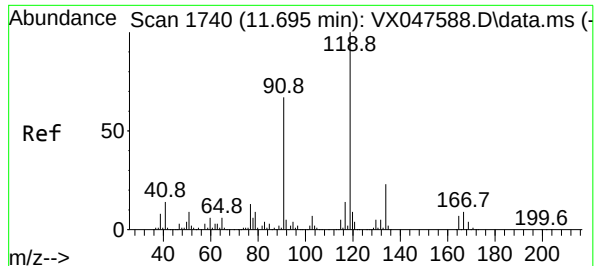
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

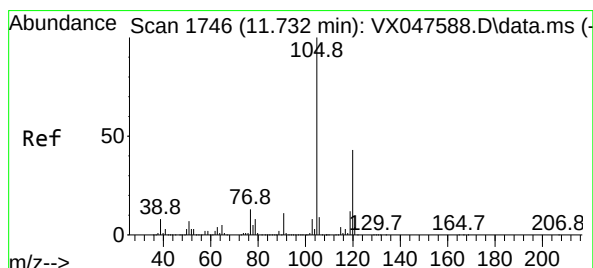
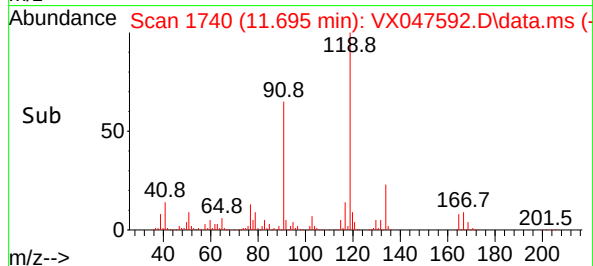
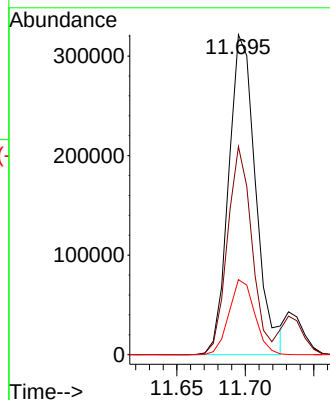
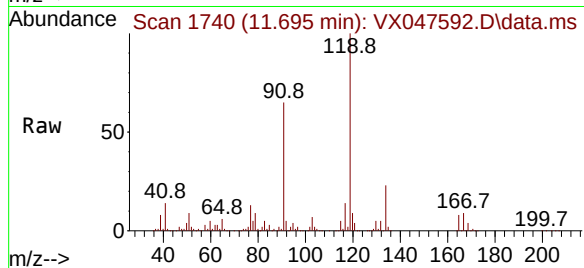
134 22.3 11.0 33.0

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

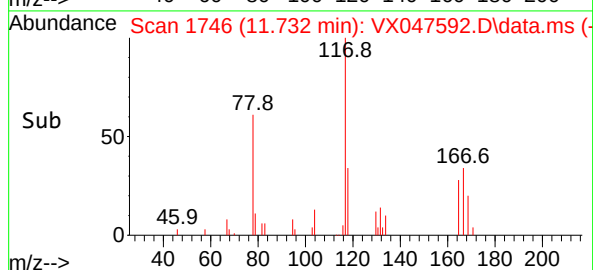
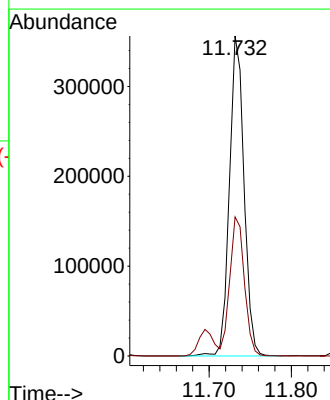
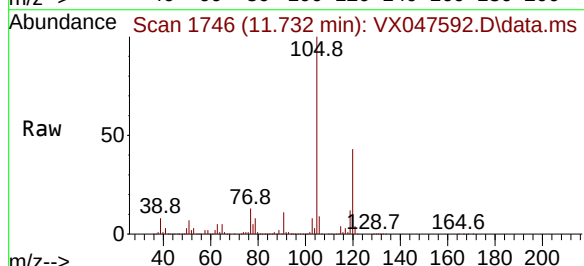
Acq: 16 Sep 2025 13:35

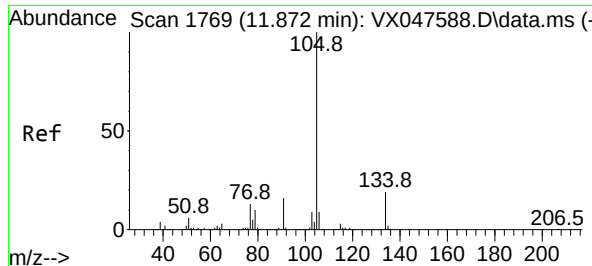
Tgt Ion:105 Resp: 440134

Ion Ratio Lower Upper

105 100

120 43.5 22.1 66.1





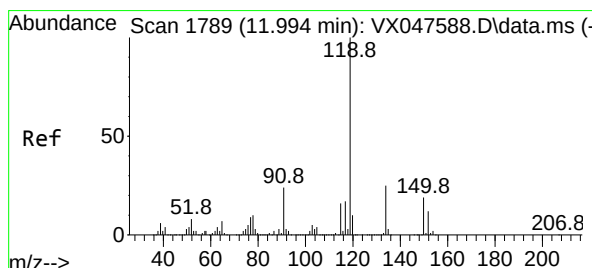
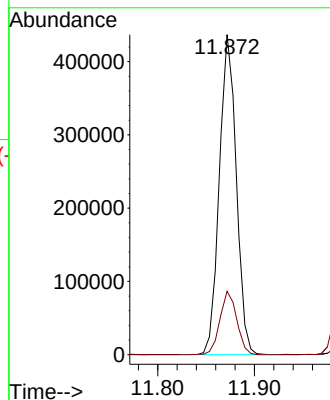
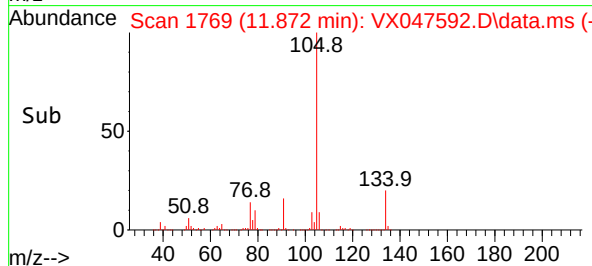
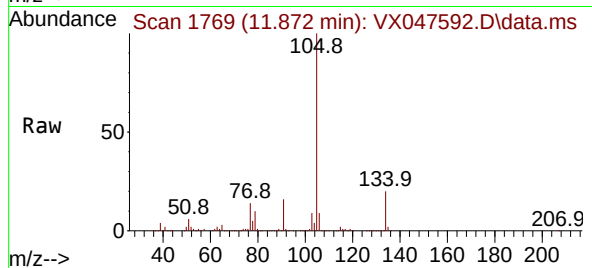
#85
sec-Butylbenzene
Concen: 50.100 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

Tgt Ion:105 Resp: 529869
Ion Ratio Lower Upper
105 100
134 19.7 9.8 29.5

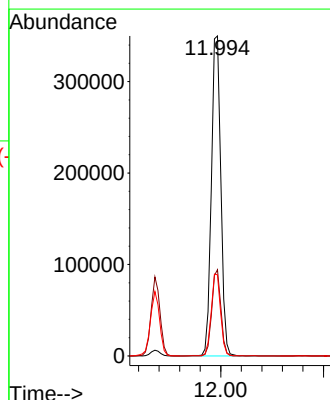
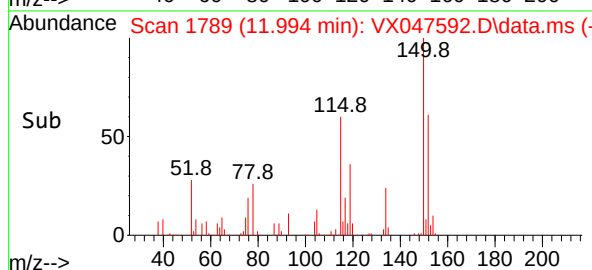
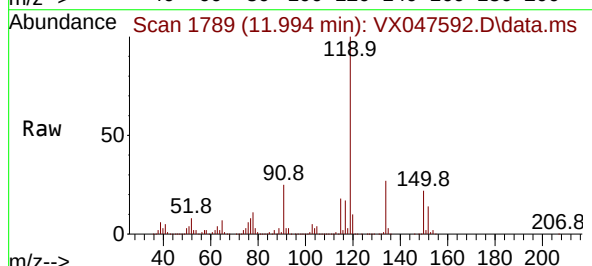
Manual Integrations
APPROVED

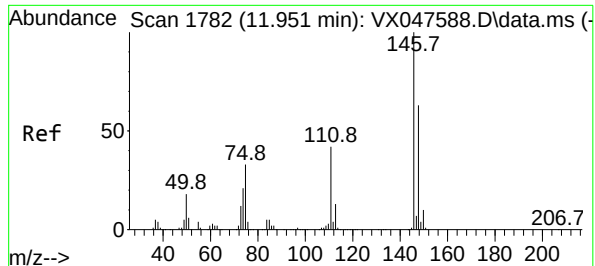
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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

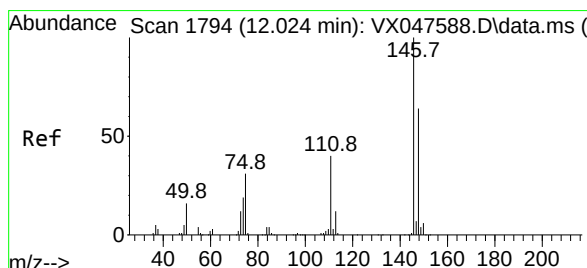
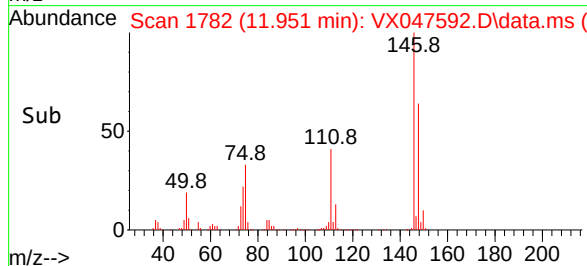
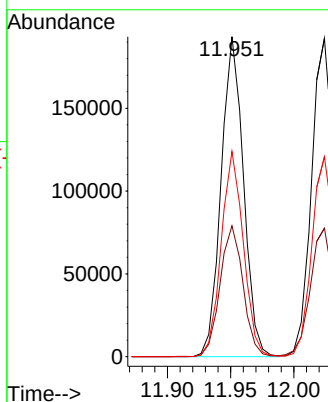
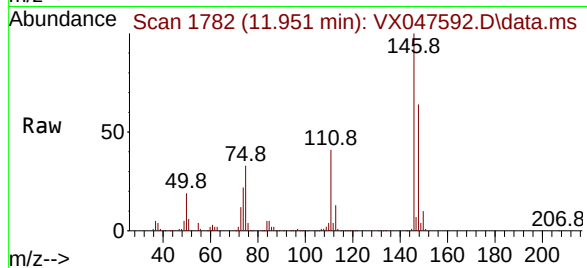
148 63.5 32.0 96.0

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

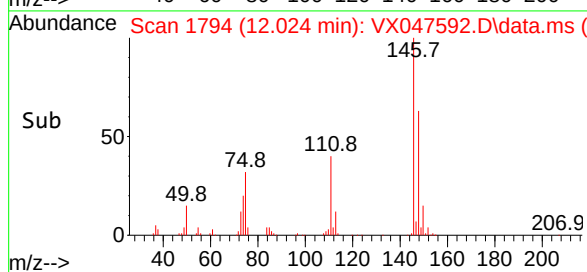
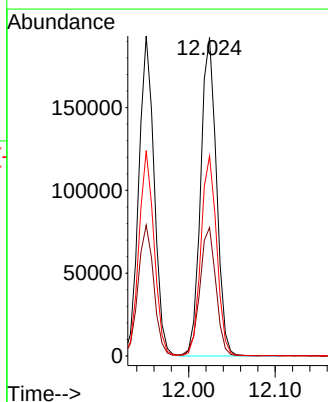
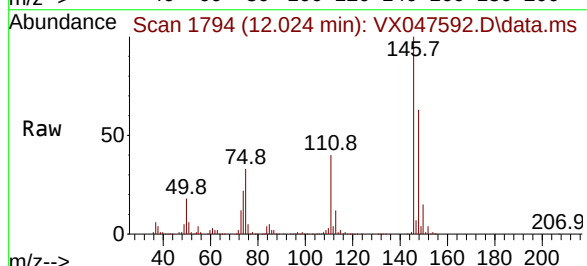
Tgt Ion:146 Resp: 243618

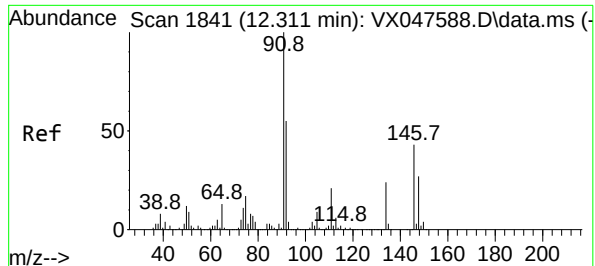
Ion Ratio Lower Upper

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# 1842

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

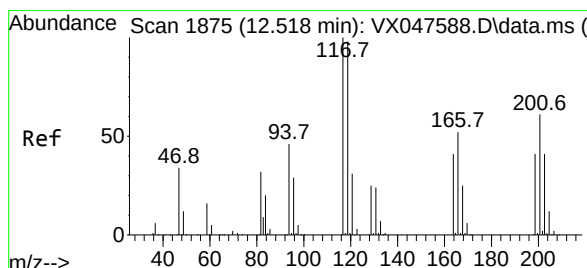
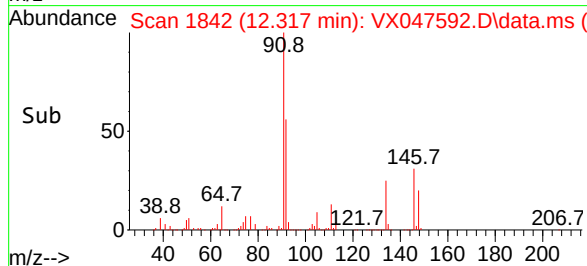
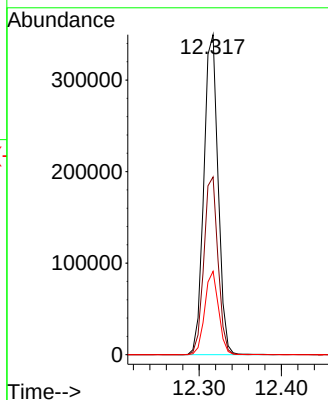
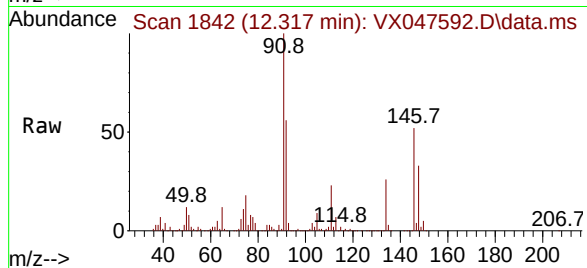
134 25.3 12.6 37.8

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

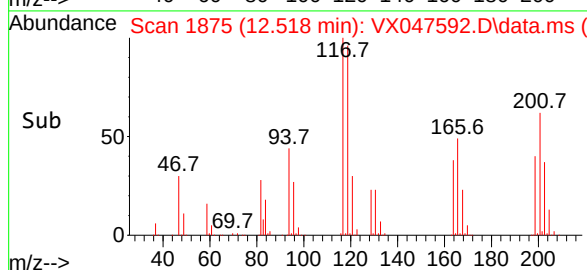
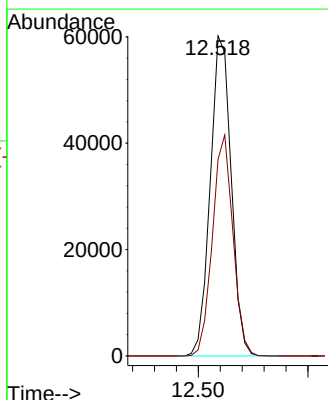
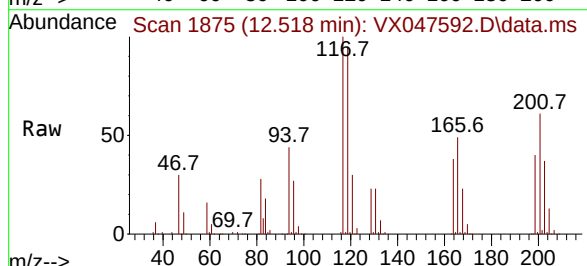
Acq: 16 Sep 2025 13:35

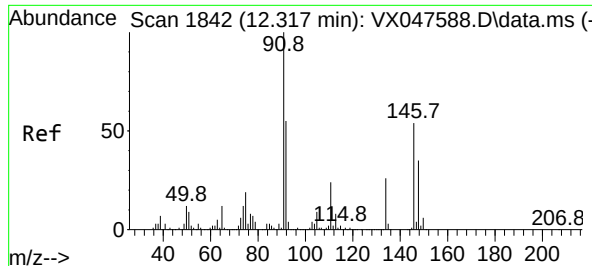
Tgt Ion:117 Resp: 79751

Ion Ratio Lower Upper

117 100

201 67.7 34.2 102.5





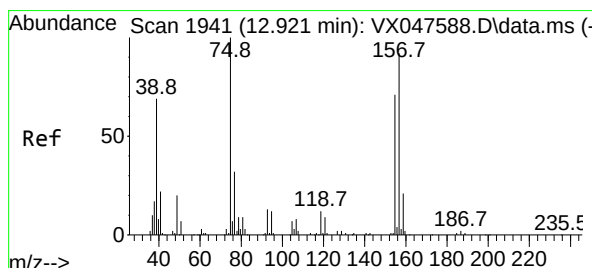
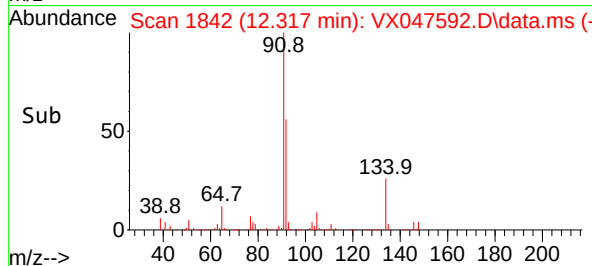
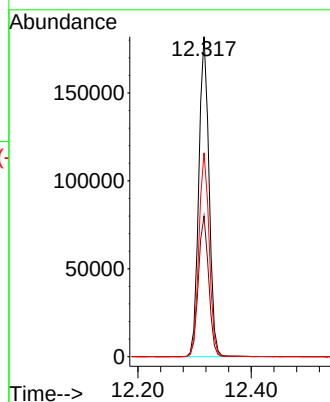
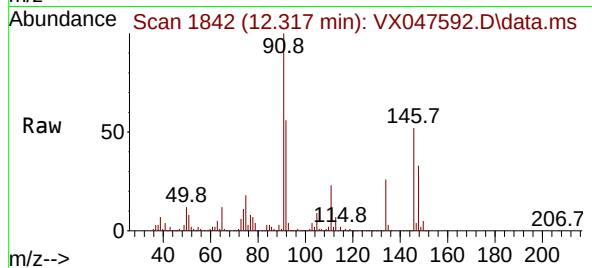
#91
1,2-Dichlorobenzene
Concen: 49.304 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX047592.D
Acq: 16 Sep 2025 13:35

Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625

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

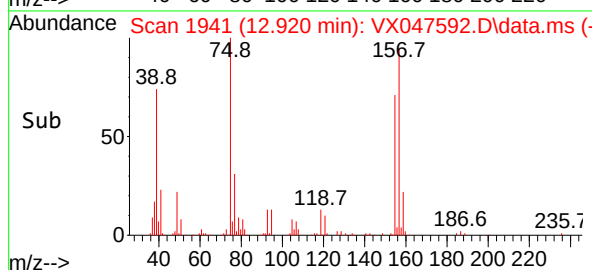
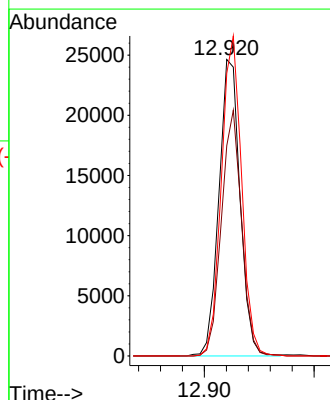
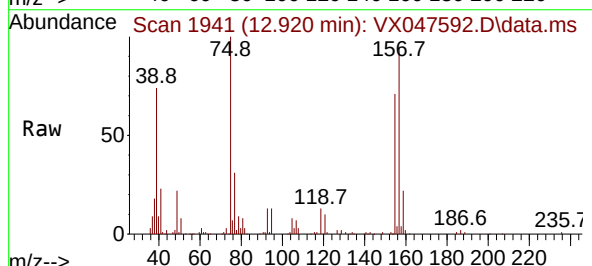
Manual Integrations
APPROVED

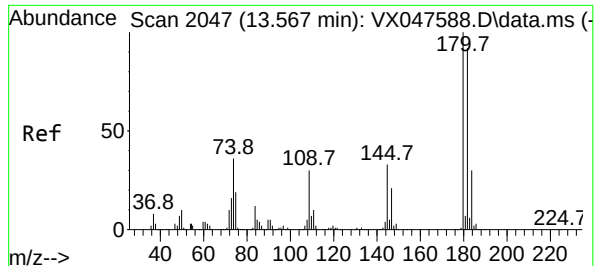
Reviewed By :John Carlone 09/17/2025
Supervised By :Mahesh Dadoda 09/18/2025



#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 :

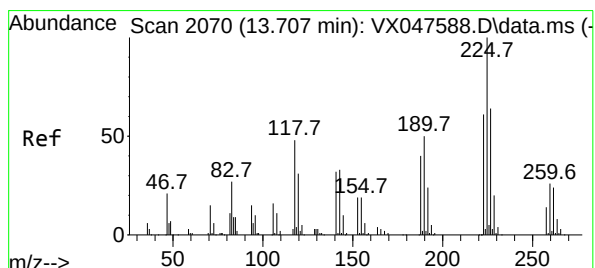
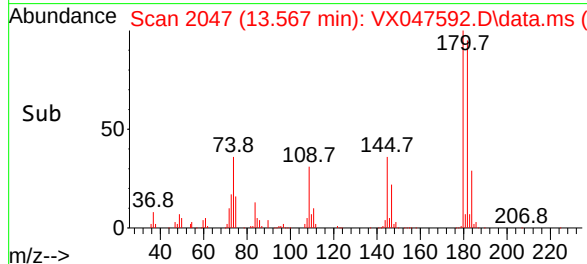
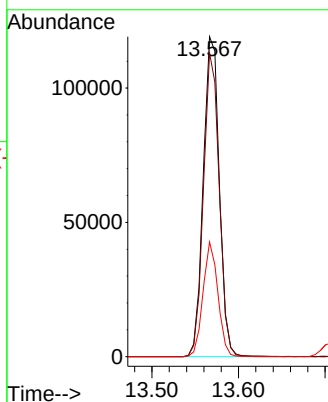
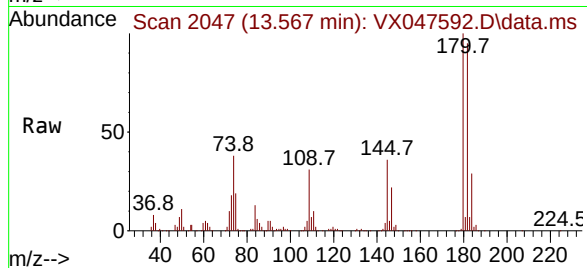
ICVVX091625

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

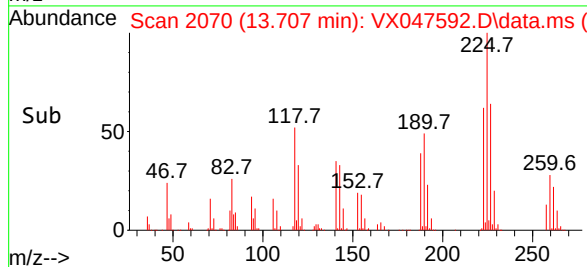
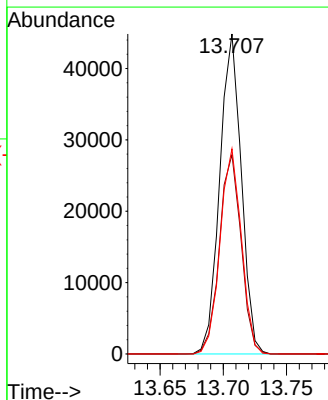
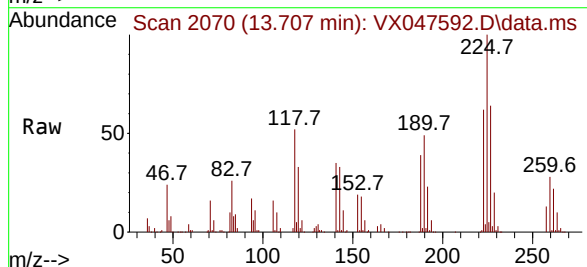
RT: 13.707 min Scan# 2070

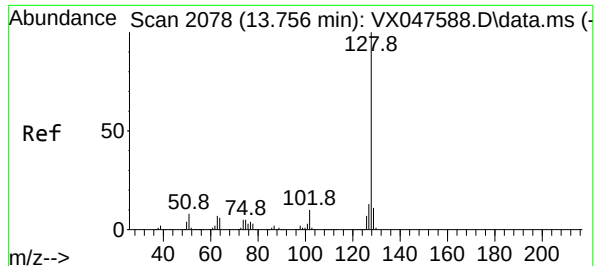
Delta R.T. -0.000 min

Lab File: VX047592.D

Acq: 16 Sep 2025 13:35

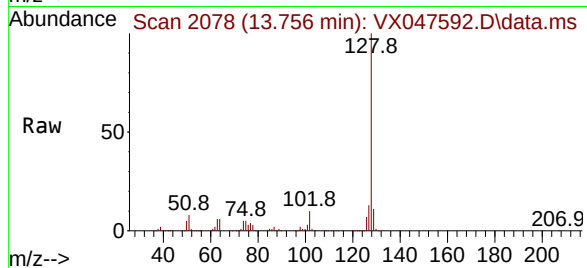
Tgt Ion:225	Resp: 53099
Ion Ratio	Lower Upper
225	100
223	62.6 31.7 95.1
227	63.3 32.0 96.0





#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

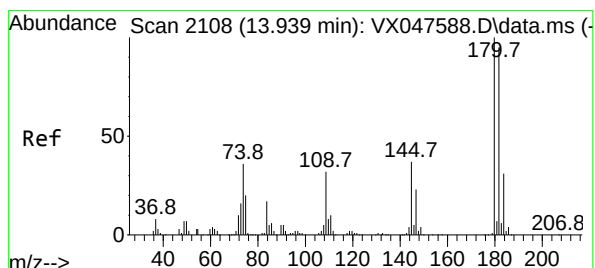
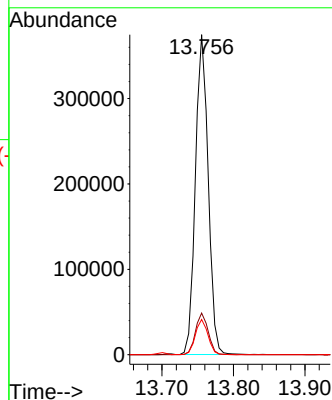
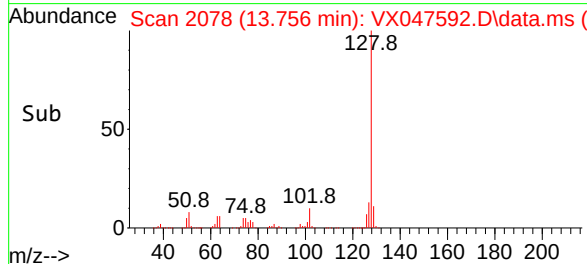
Instrument :
MSVOA_X
ClientSampleId :
ICVVX091625



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

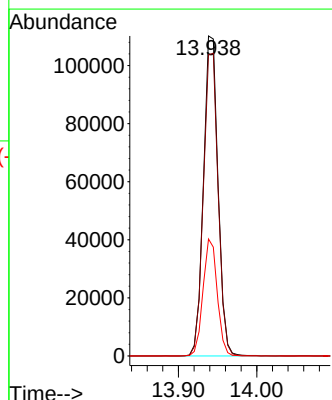
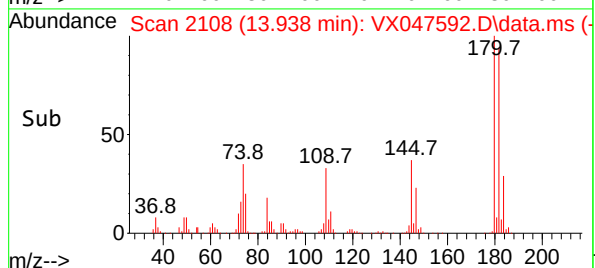
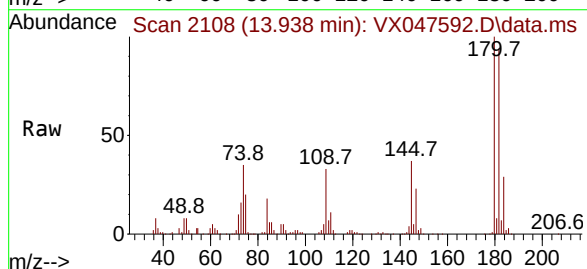
Manual Integrations
APPROVED

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 : 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)
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>ROYF02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3321</u>
Instrument ID:	<u>MSVOA_X</u>	Calibration Date/Time:	<u>10/13/2025 08:55</u>
Lab File ID:	<u>VX048126.D</u>	Init. Calib. Date(s):	<u>09/16/2025 09/16/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:23 12:01</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.666	0.852		27.93	20
1,1-Dichloroethene	0.594	0.704		18.52	20
2-Butanone	0.432	0.420		-2.78	20
Carbon Tetrachloride	0.532	0.619		16.35	20
Chloroform	1.276	1.362		6.74	20
Benzene	1.488	1.660		11.56	20
1,2-Dichloroethane	0.566	0.595		5.12	20
Trichloroethene	0.360	0.401		11.39	20
Tetrachloroethene	0.326	0.378		15.95	20
Chlorobenzene	1.136	1.244	0.3	9.51	20
1,2-Dichloroethane-d4	0.796	0.792		-0.5	20
Dibromofluoromethane	0.335	0.370		10.45	20
Toluene-d8	1.160	1.233		6.29	20
4-Bromofluorobenzene	0.440	0.456		3.64	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\VX101325\
 Data File : VX048126.D
 Acq On : 13 Oct 2025 08:55
 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 10/14/2025
 Supervised By : Mahesh Dadoda 10/14/2025

Quant Time: Oct 14 01:48:42 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	5.525	168	154232	50.000	ug/l	-0.02
34) 1,4-Difluorobenzene	6.739	114	259451	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	223200	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.000	152	109642	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	122218	49.784	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	99.560%		
35) Dibromofluoromethane	5.361	113	96057	55.205	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery =	110.400%		
50) Toluene-d8	8.629	98	320023	53.153	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	106.300%		
62) 4-Bromofluorobenzene	11.061	95	118434	51.831	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	103.660%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	103463	64.782	ug/l	98
3) Chloromethane	1.301	50	121065	57.677	ug/l	100
4) Vinyl Chloride	1.380	62	131386	63.944	ug/l	100
5) Bromomethane	1.612	94	84717	65.021	ug/l	96
6) Chloroethane	1.691	64	81130	59.077	ug/l	99
7) Trichlorofluoromethane	1.892	101	196755	64.492	ug/l	100
8) Diethyl Ether	2.136	74	66781	53.511	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	110939	62.189	ug/l	99
10) Methyl Iodide	2.453	142	129313	46.479	ug/l	97
11) Tert butyl alcohol	2.934	59	56929	208.211	ug/l	96
12) 1,1-Dichloroethene	2.325	96	108573	59.251	ug/l	97
13) Acrolein	2.233	56	68559	272.102	ug/l	98
14) Allyl chloride	2.660	41	196379	51.934	ug/l	97
15) Acrylonitrile	3.050	53	248774	245.639	ug/l	99
16) Acetone	2.368	43	299583	280.657	ug/l	98
17) Carbon Disulfide	2.514	76	327782	65.341	ug/l	98
18) Methyl Acetate	2.697	43	102094	42.977	ug/l	98
19) Methyl tert-butyl Ether	3.105	73	336820	50.353	ug/l	99
20) Methylene Chloride	2.788	84	122220	54.092	ug/l	90
21) trans-1,2-Dichloroethene	3.087	96	113608	57.586	ug/l	97
22) Diisopropyl ether	3.745	45	387319	52.853	ug/l	93
23) Vinyl Acetate	3.709	43	1524842	259.984	ug/l	100
24) 1,1-Dichloroethane	3.599	63	211944	54.414	ug/l	99
25) 2-Butanone	4.526	43	323611	243.044	ug/l	99
26) 2,2-Dichloropropane	4.459	77	176762	54.594	ug/l	100
27) cis-1,2-Dichloroethene	4.471	96	128687	53.263	ug/l	99
28) Bromochloromethane	4.879	49	83502	49.106	ug/l	99
29) Tetrahydrofuran	4.983	42	175527	219.136	ug/l	99
30) Chloroform	5.068	83	210135	53.388	ug/l	96
31) Cyclohexane	5.452	56	178045	54.883	ug/l	98
32) 1,1,1-Trichloroethane	5.361	97	185345	55.516	ug/l	99
36) 1,1-Dichloropropene	5.672	75	143574	56.468	ug/l	99
37) Ethyl Acetate	4.684	43	126824	46.586	ug/l	99
38) Carbon Tetrachloride	5.660	117	160504	58.100	ug/l	99
39) Methylcyclohexane	7.361	83	170322	59.013	ug/l	98
40) Benzene	6.013	78	430744	55.778	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101325\
 Data File : VX048126.D
 Acq On : 13 Oct 2025 08:55
 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 10/14/2025
 Supervised By : Mahesh Dadoda 10/14/2025

Quant Time: Oct 14 01:48:42 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	4.891	41	72107	51.306	ug/l	96
42) 1,2-Dichloroethane	6.062	62	154248	52.496	ug/l	98
43) Isopropyl Acetate	6.312	43	206326	46.211	ug/l	100
44) Trichloroethene	7.104	130	104133	55.775	ug/l	95
45) 1,2-Dichloropropane	7.409	63	105891	53.550	ug/l	99
46) Dibromomethane	7.562	93	76964	53.485	ug/l	98
47) Bromodichloromethane	7.799	83	162548	54.741	ug/l	100
48) Methyl methacrylate	7.671	41	104388	46.937	ug/l	98
49) 1,4-Dioxane	7.641	88	24111	1072.749	ug/l	96
51) 4-Methyl-2-Pentanone	8.549	43	569942	230.231	ug/l	99
52) Toluene	8.696	92	259802	54.605	ug/l	100
53) t-1,3-Dichloropropene	8.958	75	160828	53.099	ug/l	99
54) cis-1,3-Dichloropropene	8.348	75	176072	54.388	ug/l	98
55) 1,1,2-Trichloroethane	9.135	97	95272	51.931	ug/l	97
56) Ethyl methacrylate	9.098	69	139255	48.333	ug/l	98
57) 1,3-Dichloropropane	9.287	76	165863	52.630	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.220	63	336481	244.822	ug/l	100
59) 2-Hexanone	9.409	43	419911	236.180	ug/l	99
60) Dibromochloromethane	9.500	129	117709	55.685	ug/l	100
61) 1,2-Dibromoethane	9.592	107	97885	52.384	ug/l	100
64) Tetrachloroethene	9.257	164	84307	57.942	ug/l	97
65) Chlorobenzene	10.061	112	277555	54.737	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.147	131	96629	55.224	ug/l	97
67) Ethyl Benzene	10.177	91	490587	56.073	ug/l	99
68) m/p-Xylenes	10.281	106	369555	113.483	ug/l	99
69) o-Xylene	10.622	106	173309	55.023	ug/l	100
70) Styrene	10.634	104	303904	55.065	ug/l	99
71) Bromoform	10.781	173	71212	54.505	ug/l #	98
73) Isopropylbenzene	10.945	105	456852	54.807	ug/l	99
74) N-amyl acetate	10.823	43	173323	45.597	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	122425	48.544	ug/l	98
76) 1,2,3-Trichloropropane	11.220	75	100017m	45.055	ug/l	
77) Bromobenzene	11.177	156	107070	52.152	ug/l	98
78) n-propylbenzene	11.287	91	540893	54.892	ug/l	100
79) 2-Chlorotoluene	11.348	91	322270	53.398	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	370027	54.031	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	40429	46.443	ug/l	99
82) 4-Chlorotoluene	11.433	91	381746	53.556	ug/l	99
83) tert-Butylbenzene	11.695	119	369136	52.654	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	373978	53.862	ug/l	100
85) sec-Butylbenzene	11.872	105	450074	54.048	ug/l	99
86) p-Isopropyltoluene	11.988	119	379791	53.872	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	197717	51.849	ug/l	99
88) 1,4-Dichlorobenzene	12.018	146	202440	51.725	ug/l	100
89) n-Butylbenzene	12.311	91	352384	54.020	ug/l	99
90) Hexachloroethane	12.518	117	71735	57.956	ug/l	98
91) 1,2-Dichlorobenzene	12.317	146	188937	52.006	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.921	75	22649	44.358	ug/l	98
93) 1,2,4-Trichlorobenzene	13.567	180	115543	48.936	ug/l	97
94) Hexachlorobutadiene	13.707	225	42338	52.791	ug/l	97
95) Naphthalene	13.756	128	324021	45.067	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	109087	49.668	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101325\
Data File : VX048126.D
Acq On : 13 Oct 2025 08:55
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 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

Quant Time: Oct 14 01:48:42 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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101325\
 Data File : VX048126.D
 Acq On : 13 Oct 2025 08:55
 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 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025

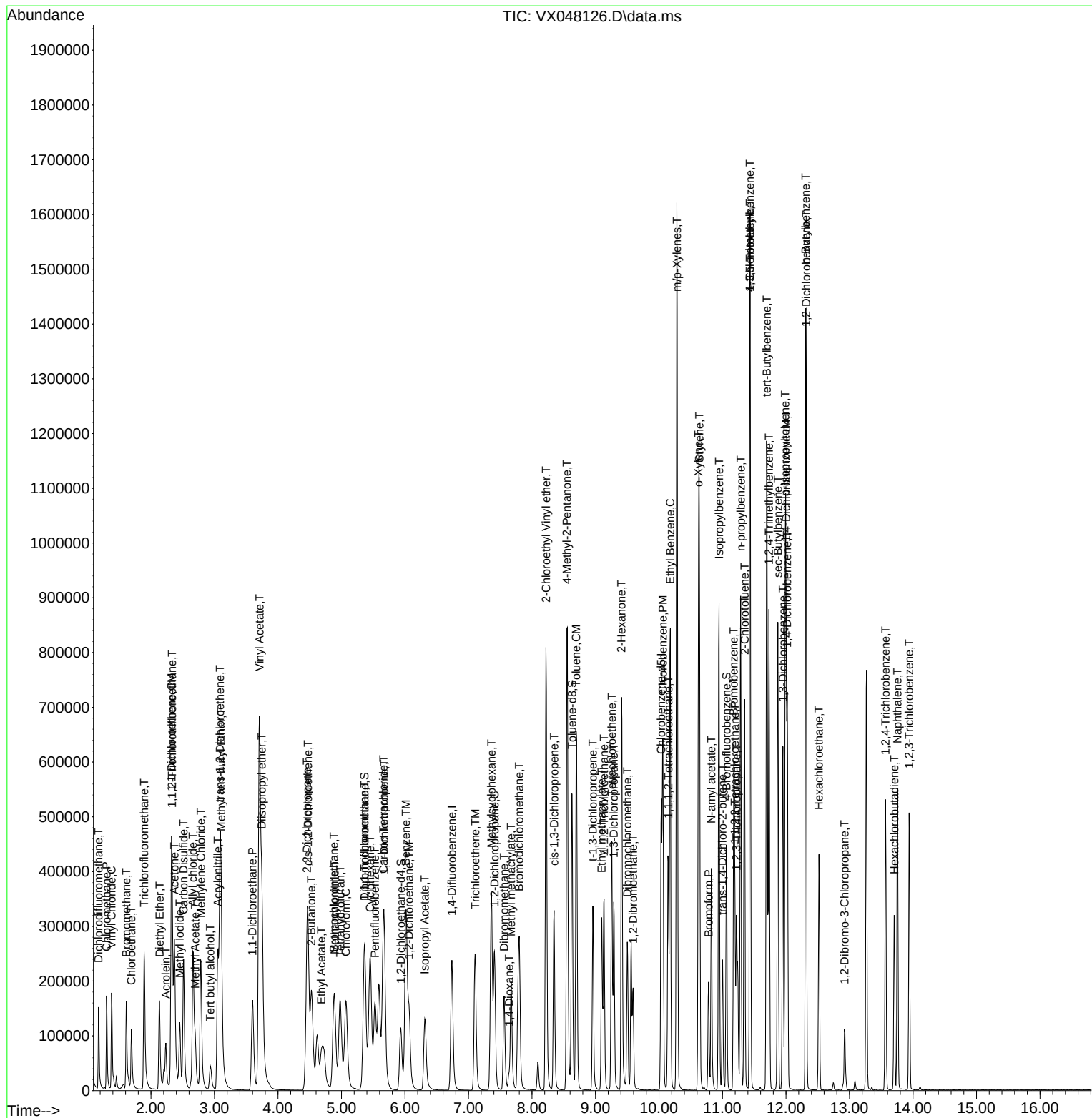
Quant Time: Oct 14 01:48:42 2025

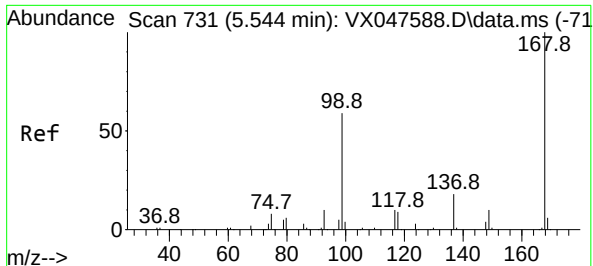
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M

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: 5.525 min Scan# 71

Delta R.T. -0.019 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:168 Resp: 15423

Ion Ratio Lower Upper

168 100

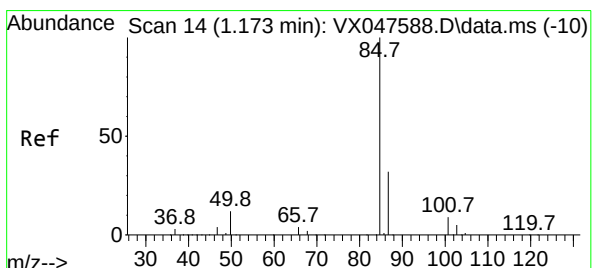
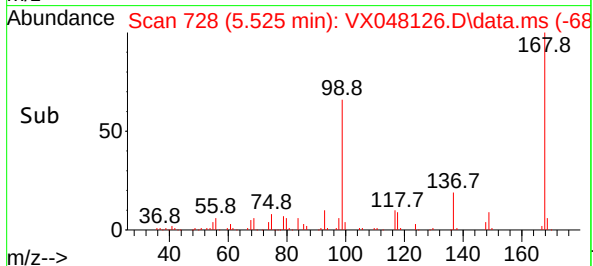
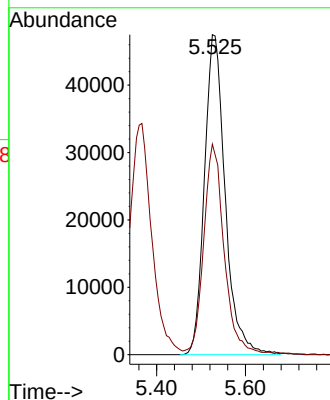
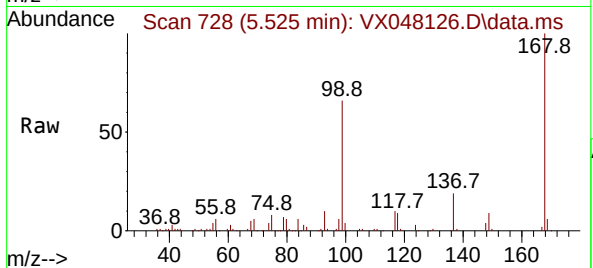
99 65.2 48.8 73.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#2

Dichlorodifluoromethane

Concen: 64.782 ug/l

RT: 1.173 min Scan# 14

Delta R.T. -0.000 min

Lab File: VX048126.D

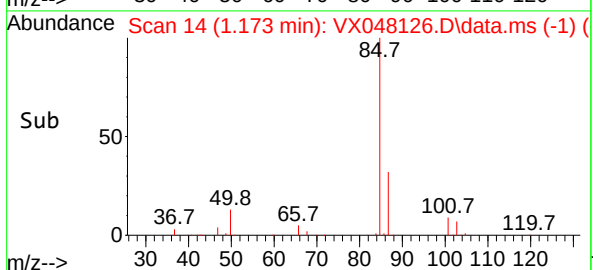
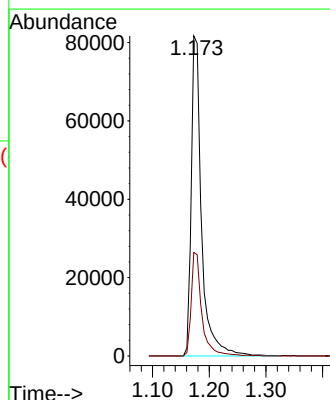
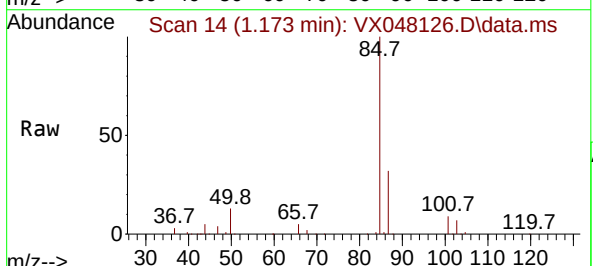
Acq: 13 Oct 2025 08:55

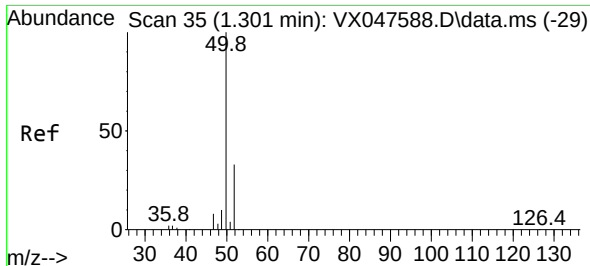
Tgt Ion: 85 Resp: 103463

Ion Ratio Lower Upper

85 100

87 32.3 15.8 47.3





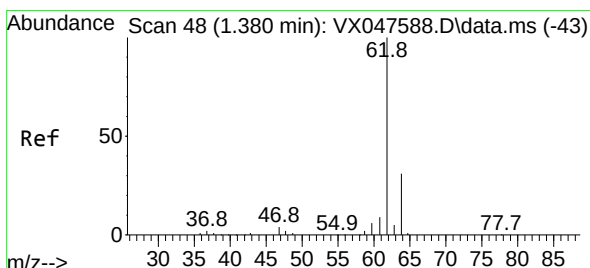
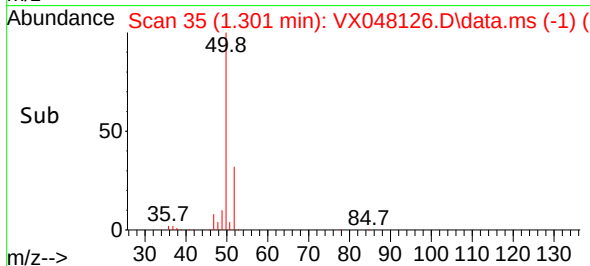
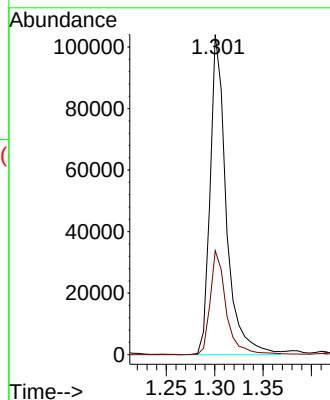
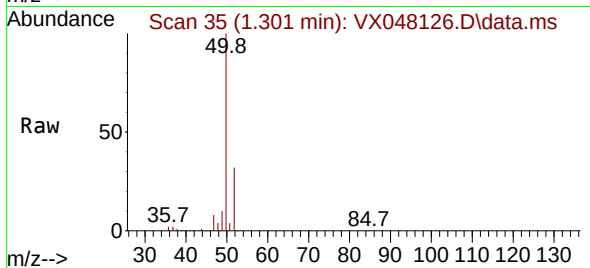
#3
Chloromethane
Concen: 57.677 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 12106
Ion Ratio Lower Upper
50 100
52 32.5 26.1 39.1

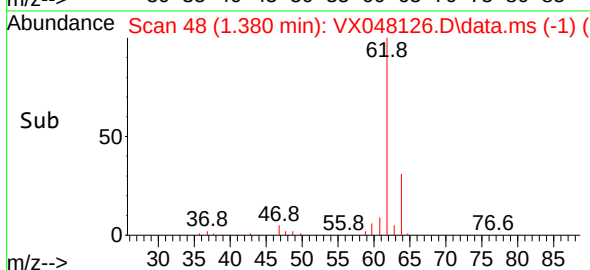
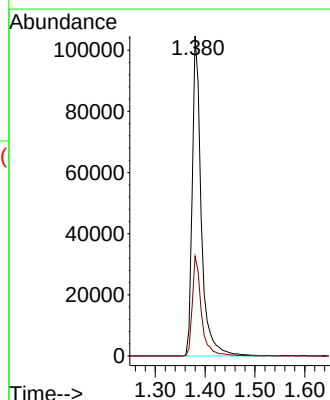
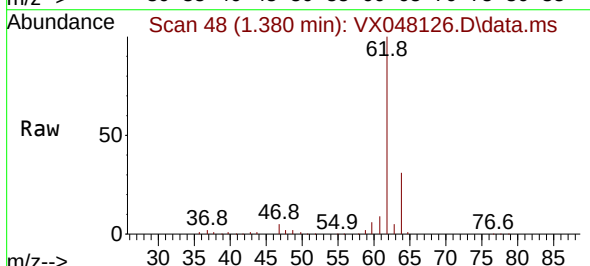
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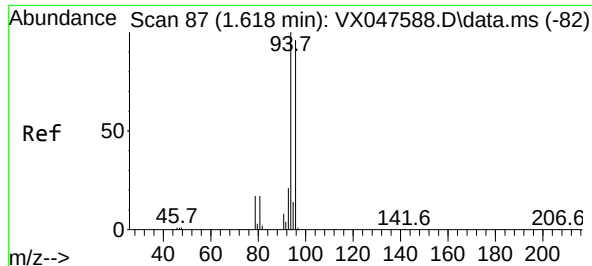
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#4
Vinyl Chloride
Concen: 63.944 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

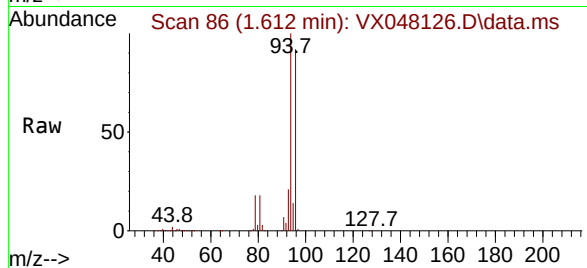
Tgt Ion: 62 Resp: 131386
Ion Ratio Lower Upper
62 100
64 31.2 24.9 37.3





#5
Bromomethane
Concen: 65.021 ug/l
RT: 1.612 min Scan# 80
Delta R.T. -0.006 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

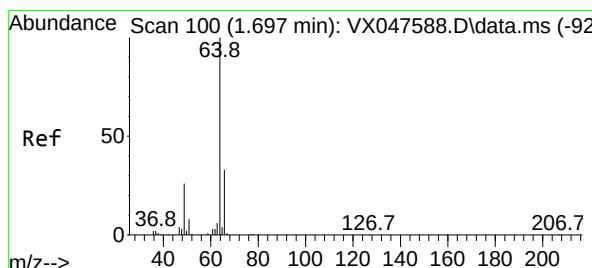
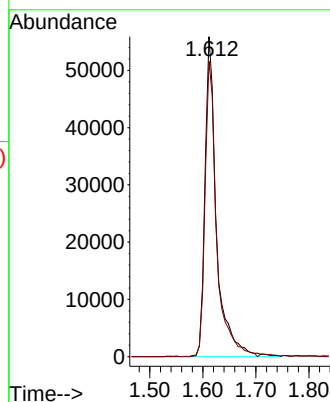
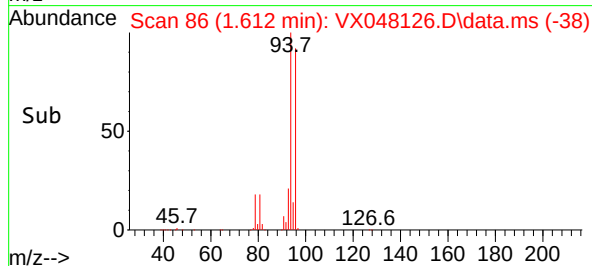
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 94 Resp: 8471
Ion Ratio Lower Upper
94 100
96 92.3 76.6 115.0

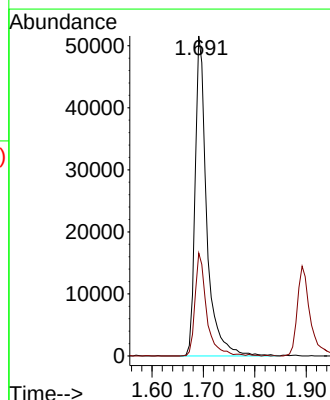
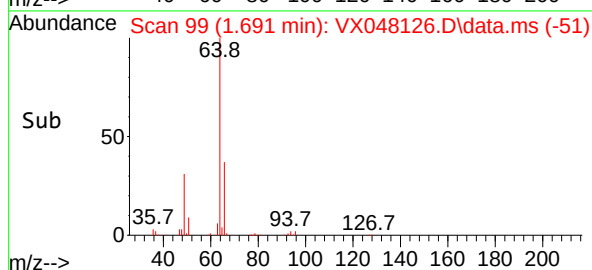
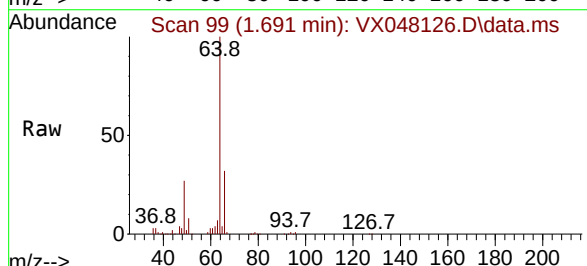
Manual Integrations
APPROVED

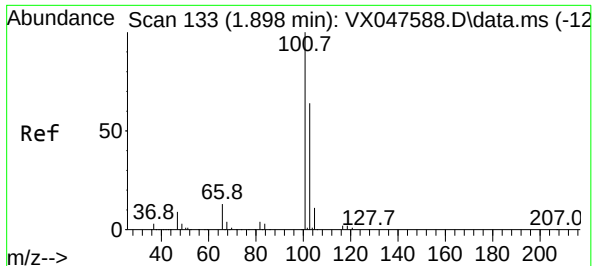
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#6
Chloroethane
Concen: 59.077 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

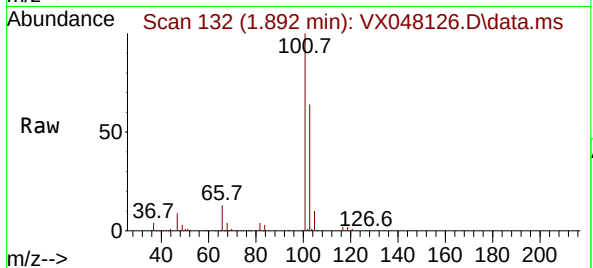
Tgt Ion: 64 Resp: 81130
Ion Ratio Lower Upper
64 100
66 32.2 26.1 39.1





#7
Trichlorofluoromethane
Concen: 64.492 ug/l
RT: 1.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

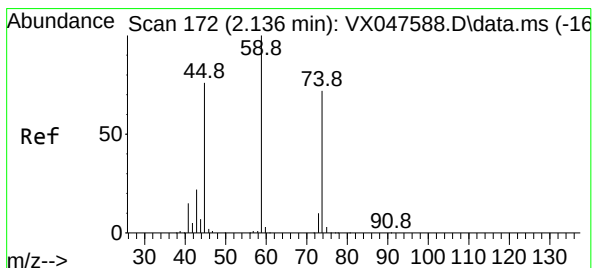
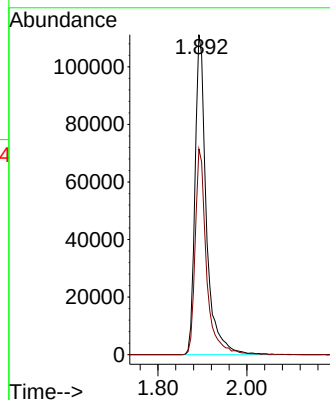
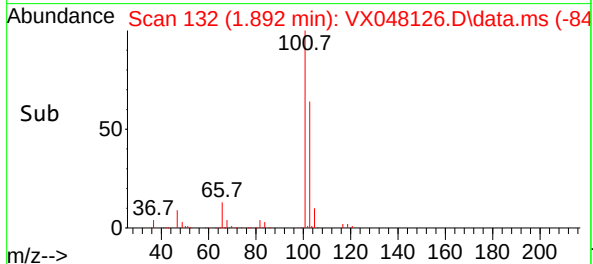
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:101 Resp: 19675
Ion Ratio Lower Upper
101 100
103 64.3 51.4 77.2

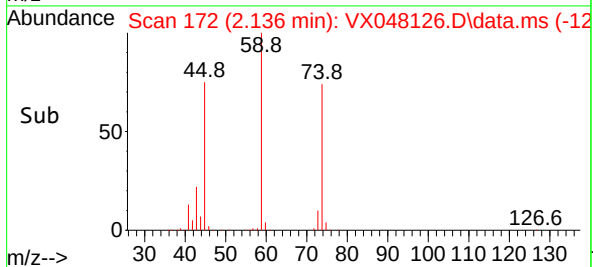
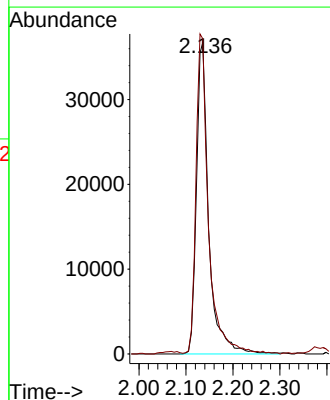
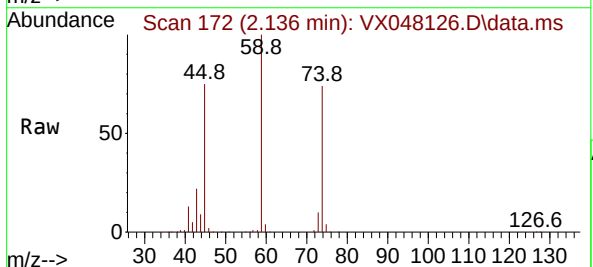
Manual Integrations
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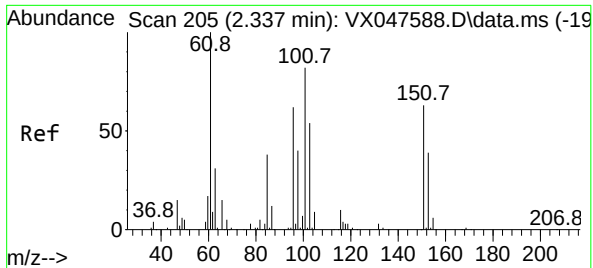
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#8
Diethyl Ether
Concen: 53.511 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

Tgt Ion: 74 Resp: 66781
Ion Ratio Lower Upper
74 100
45 105.1 52.3 156.8





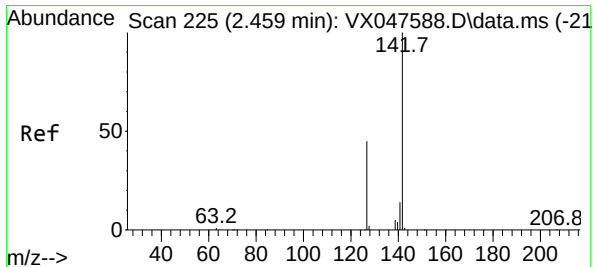
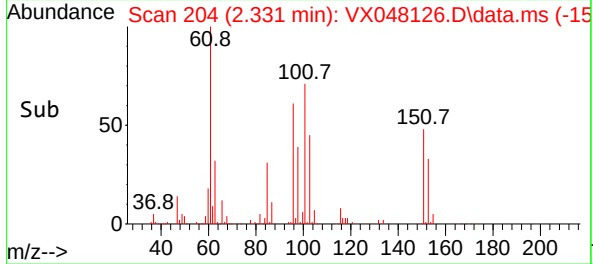
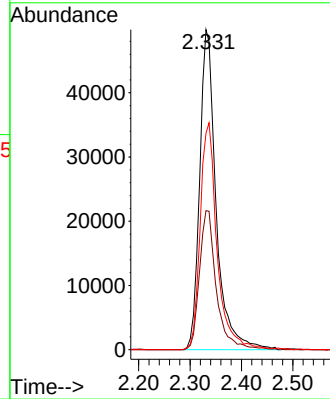
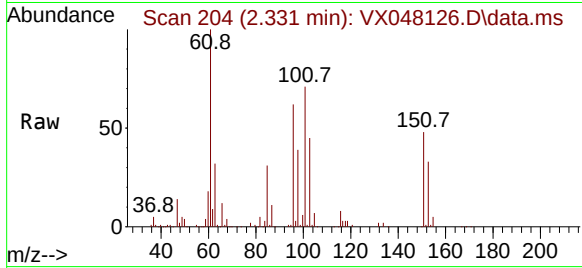
#9
1,1,2-Trichlorotrifluoroethane
Concen: 62.189 ug/l
RT: 2.331 min Scan# 204
Delta R.T. -0.006 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDC050

Tgt Ion:101 Resp: 110939
Ion Ratio Lower Upper
101 100
85 44.7 35.5 53.3
151 72.9 59.4 89.0

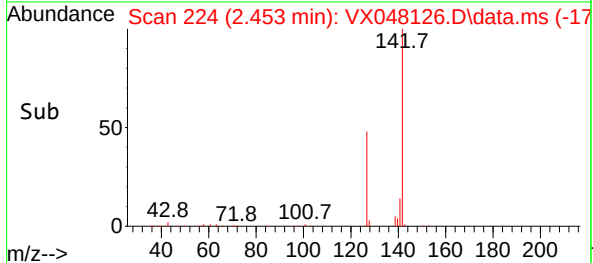
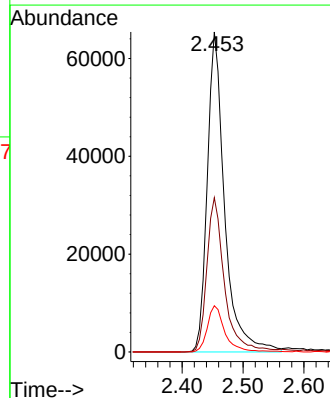
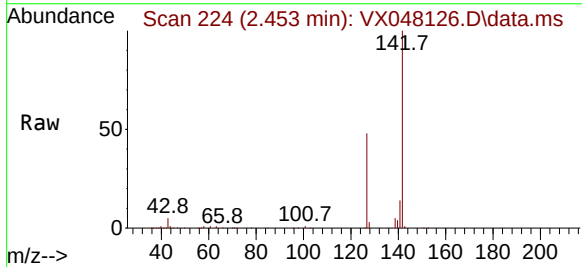
Manual Integrations
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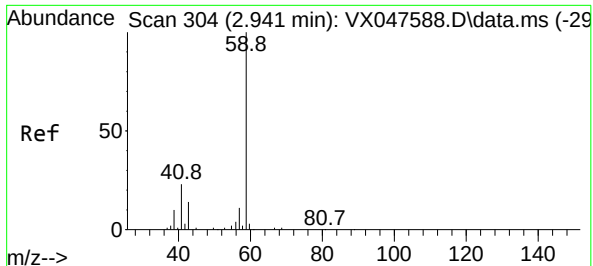
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#10
Methyl Iodide
Concen: 46.479 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

Tgt Ion:142 Resp: 129313
Ion Ratio Lower Upper
142 100
127 49.0 37.2 55.8
141 14.7 11.4 17.0





#11

Tert butyl alcohol

Concen: 208.211 ug/l

RT: 2.934 min Scan# 304

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 56929

Ion Ratio Lower Upper

59 100

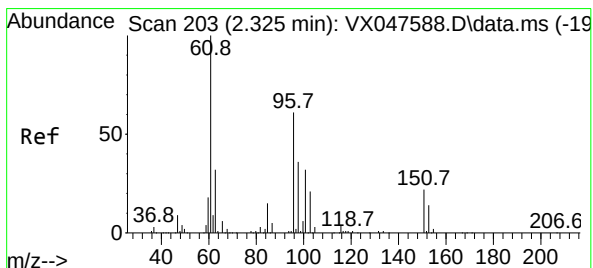
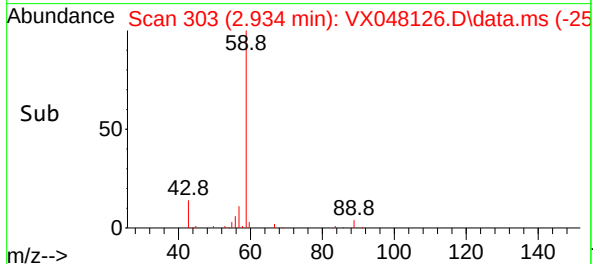
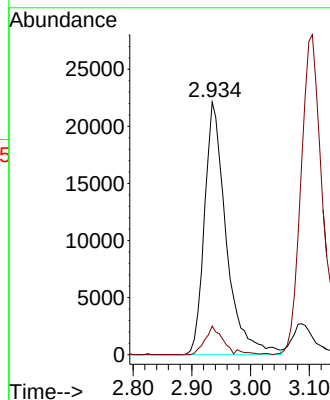
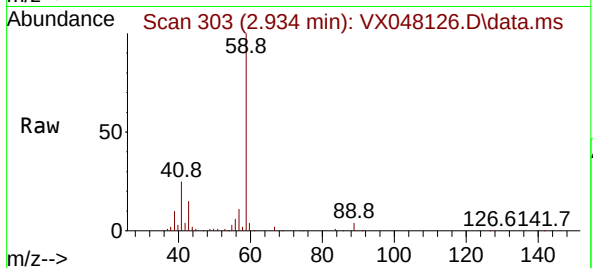
57 8.8 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#12

1,1-Dichloroethene

Concen: 59.251 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

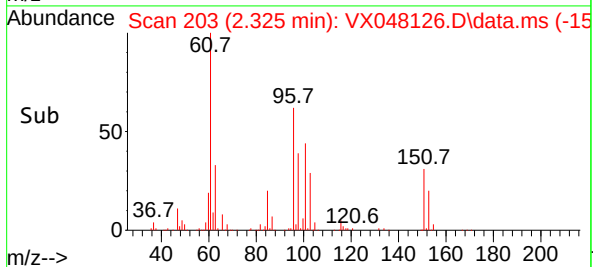
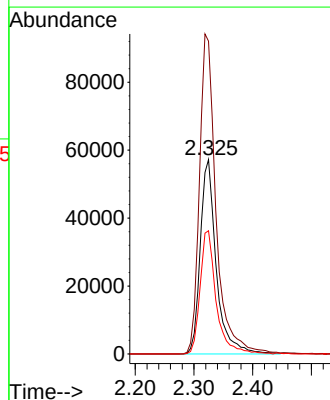
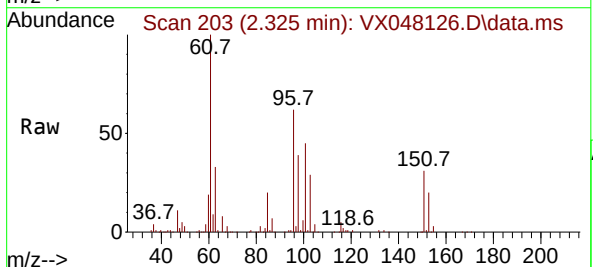
Tgt Ion: 96 Resp: 108573

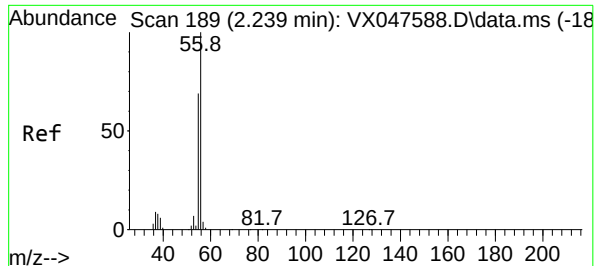
Ion Ratio Lower Upper

96 100

61 160.9 131.0 196.6

98 63.4 47.7 71.5





#13

Acrolein

Concen: 272.102 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 6855

Ion Ratio Lower Upper

56 100

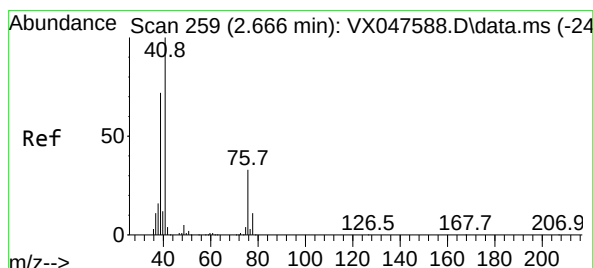
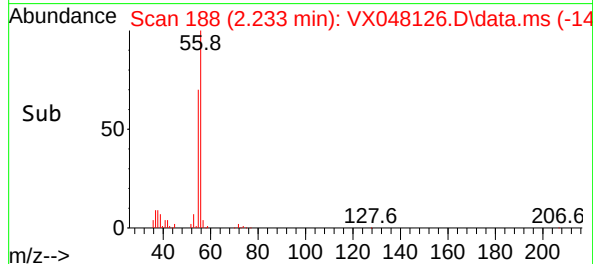
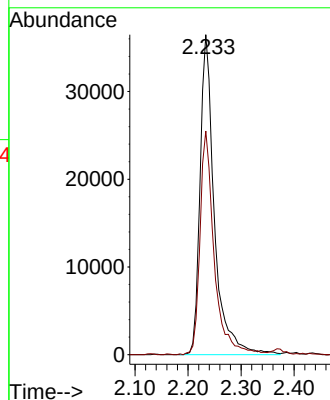
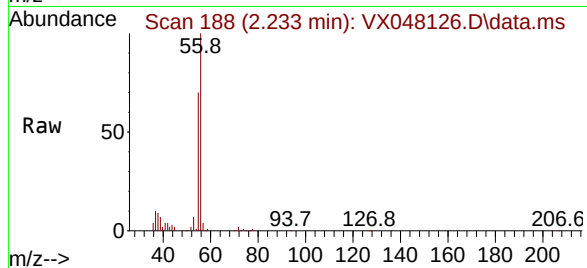
55 69.4 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#14

Allyl chloride

Concen: 51.934 ug/l

RT: 2.660 min Scan# 258

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

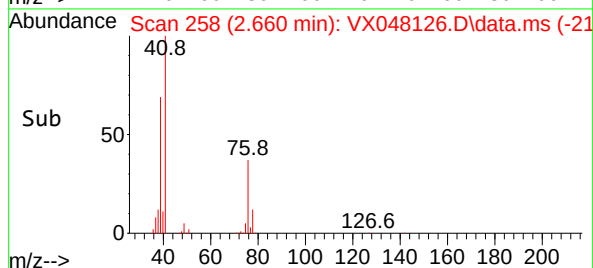
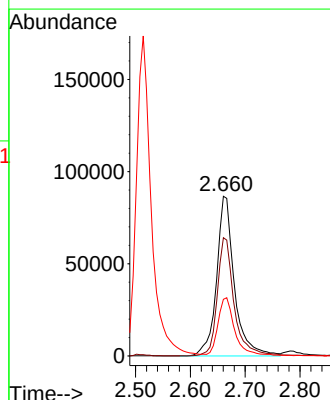
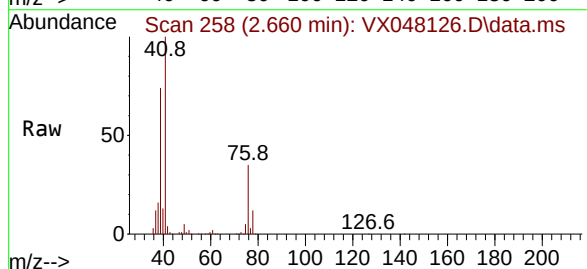
Tgt Ion: 41 Resp: 196379

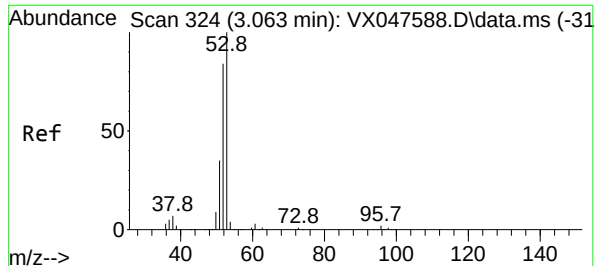
Ion Ratio Lower Upper

41 100

39 70.1 54.7 82.1

76 35.2 25.7 38.5





#15

Acrylonitrile

Concen: 245.639 ug/l

RT: 3.050 min Scan# 31

Delta R.T. -0.012 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 53 Resp: 248774

Ion Ratio Lower Upper

53 100

52 82.6 66.4 99.6

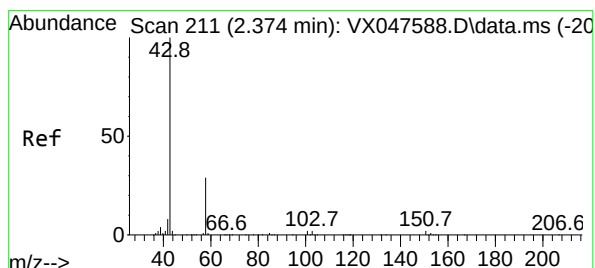
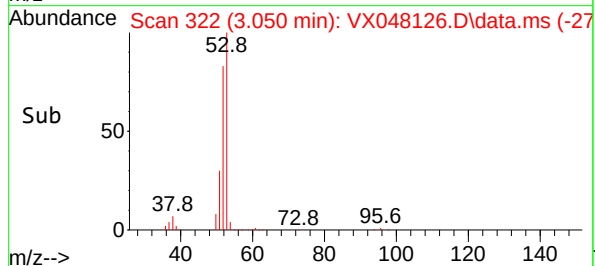
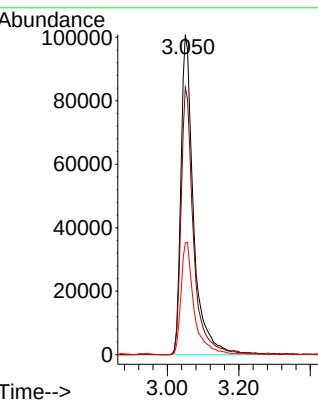
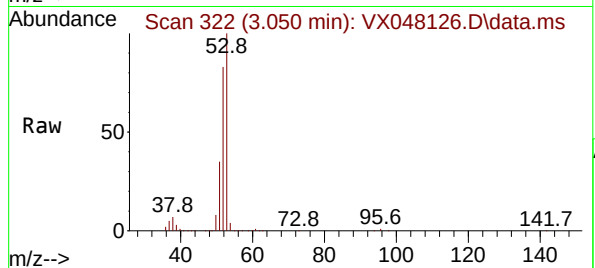
51 36.5 29.5 44.3

Manual Integrations

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Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#16

Acetone

Concen: 280.657 ug/l

RT: 2.368 min Scan# 210

Delta R.T. -0.006 min

Lab File: VX048126.D

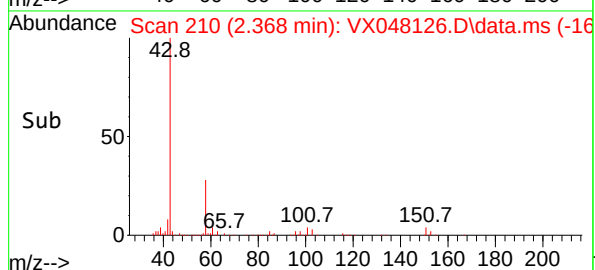
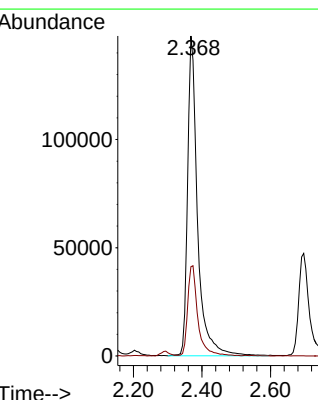
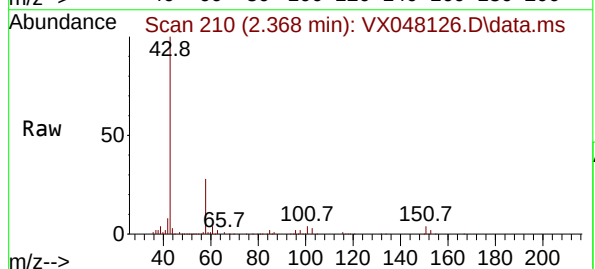
Acq: 13 Oct 2025 08:55

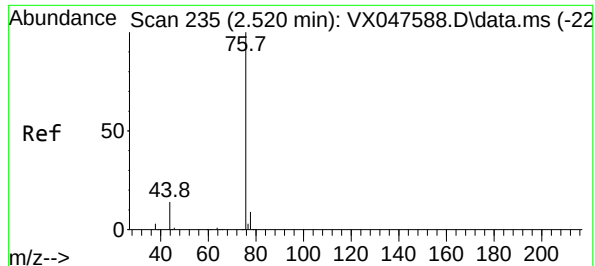
Tgt Ion: 43 Resp: 299583

Ion Ratio Lower Upper

43 100

58 27.9 23.4 35.0





#17

Carbon Disulfide

Concen: 65.341 ug/l

RT: 2.514 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 32778

Ion Ratio Lower Upper

76 100

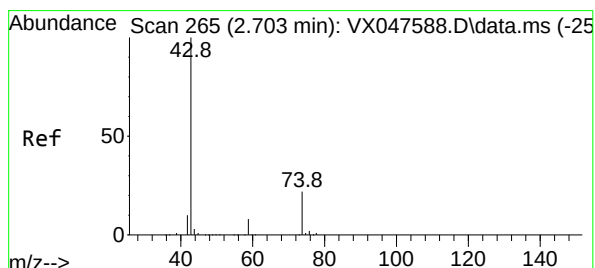
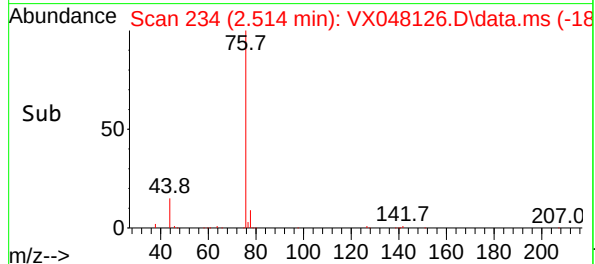
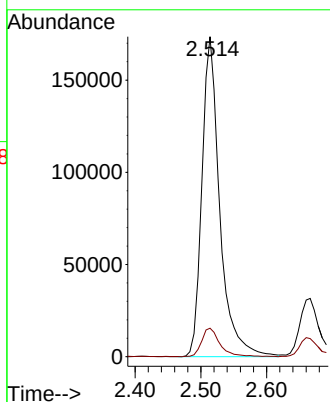
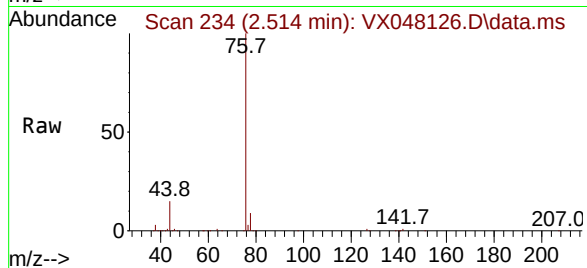
78 9.1 6.8 10.2

Manual Integrations

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Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#18

Methyl Acetate

Concen: 42.977 ug/l

RT: 2.697 min Scan# 264

Delta R.T. -0.006 min

Lab File: VX048126.D

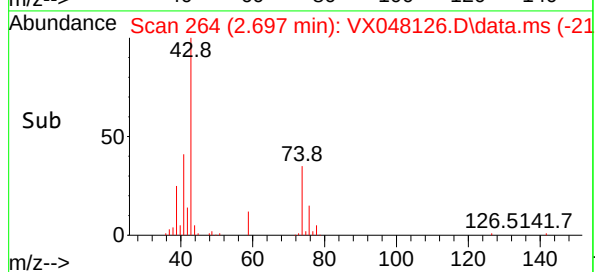
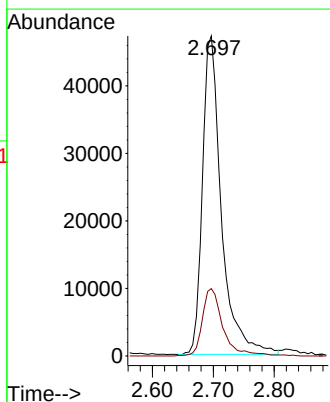
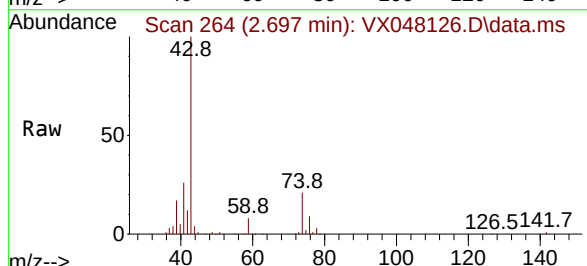
Acq: 13 Oct 2025 08:55

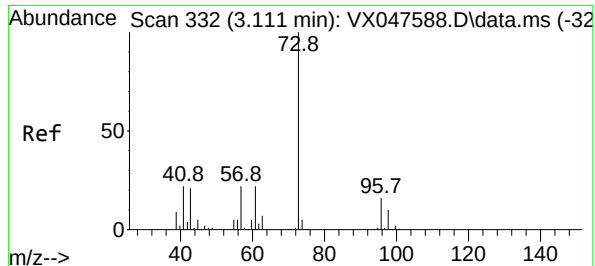
Tgt Ion: 43 Resp: 102094

Ion Ratio Lower Upper

43 100

74 22.8 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 50.353 ug/l

RT: 3.105 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 336820

Ion Ratio Lower Upper

73 100

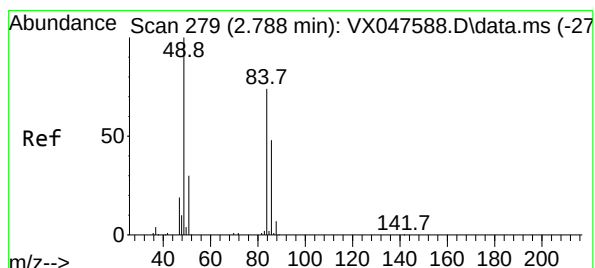
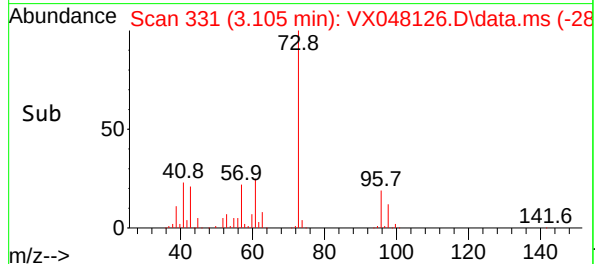
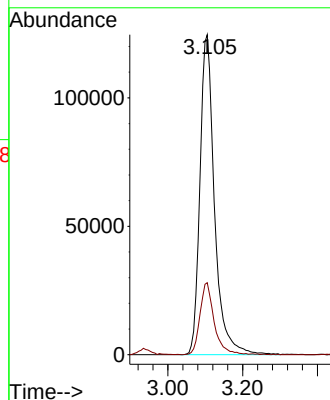
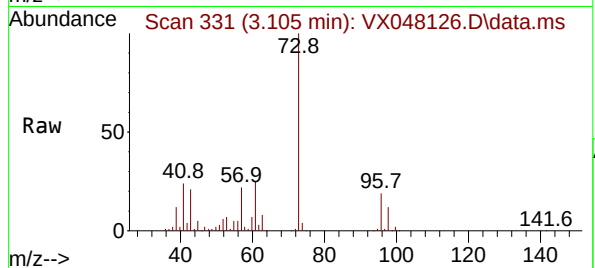
57 22.5 17.4 26.2

Manual Integrations

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Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#20

Methylene Chloride

Concen: 54.092 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Tgt Ion: 84 Resp: 122220

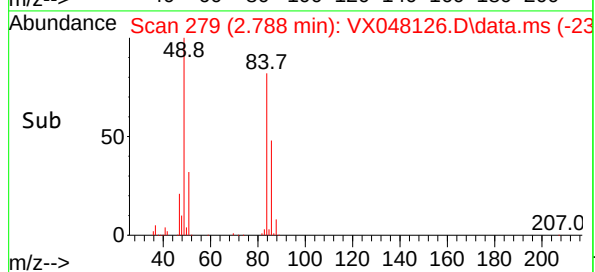
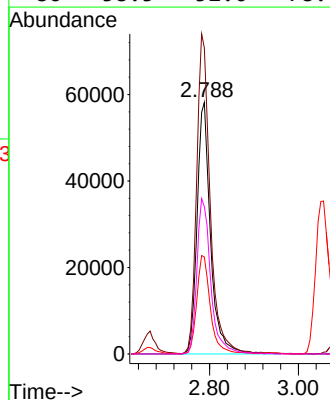
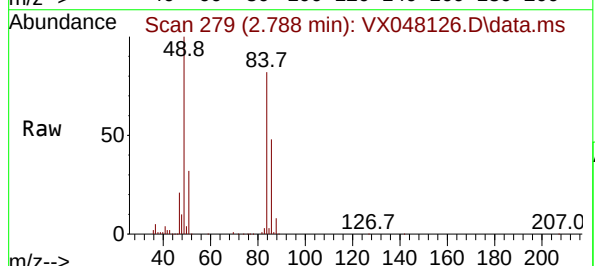
Ion Ratio Lower Upper

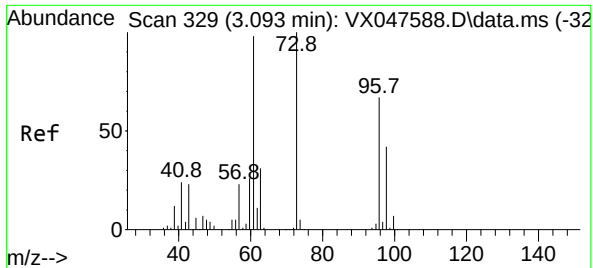
84 100

49 121.4 108.6 162.8

51 38.5 32.6 48.8

86 58.5 52.0 78.0





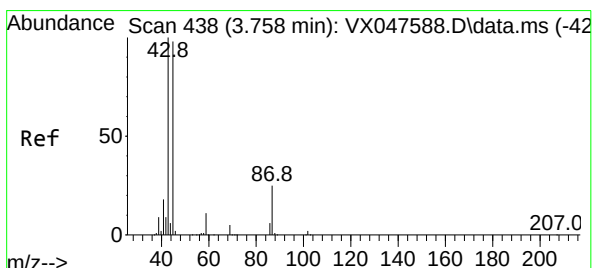
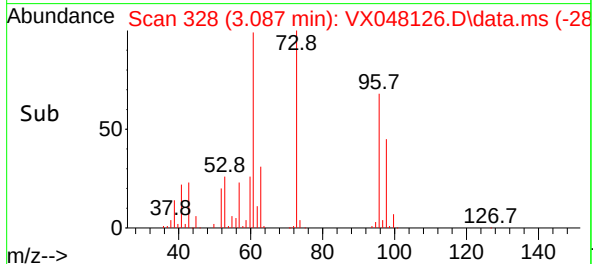
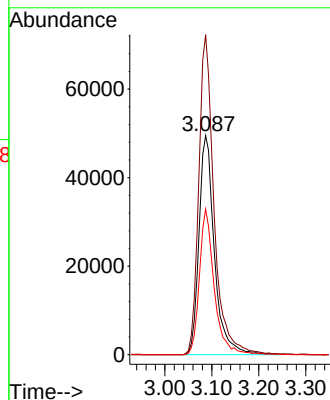
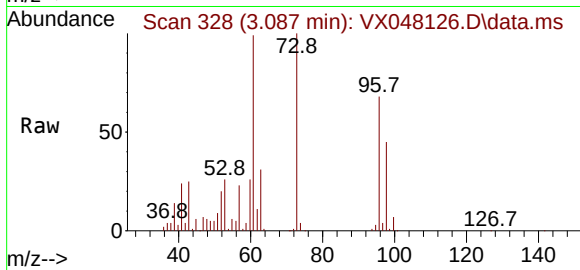
#21
trans-1,2-Dichloroethene
Concen: 57.586 ug/l
RT: 3.087 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 113608
Ion Ratio Lower Upper
96 100
61 146.1 116.2 174.2
98 68.5 49.3 73.9

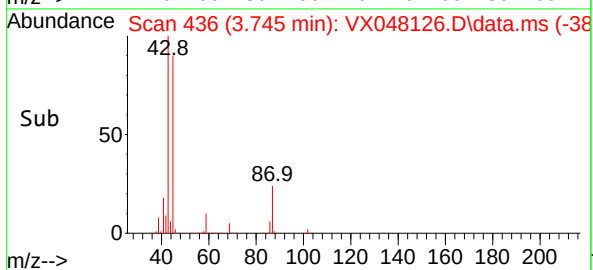
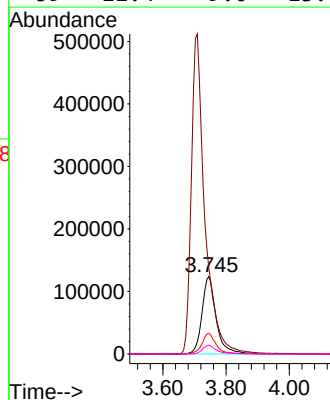
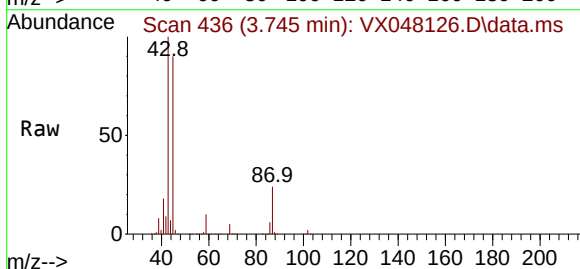
Manual Integrations
APPROVED

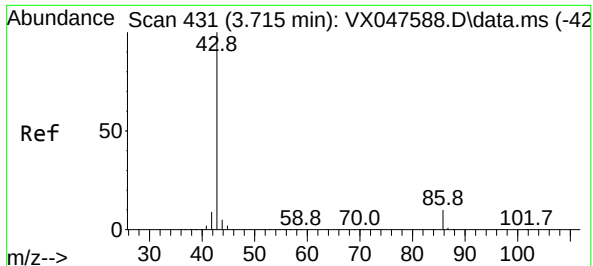
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#22
Diisopropyl ether
Concen: 52.853 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.012 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

Tgt Ion: 45 Resp: 387319
Ion Ratio Lower Upper
45 100
43 110.3 81.0 121.4
87 26.6 20.3 30.5
59 11.4 9.0 13.4





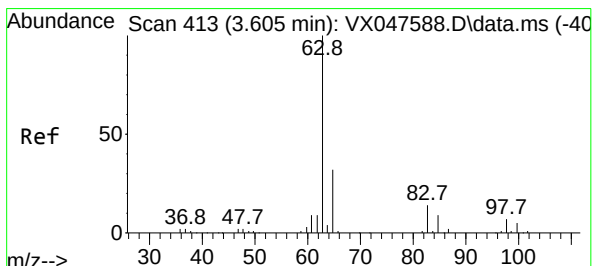
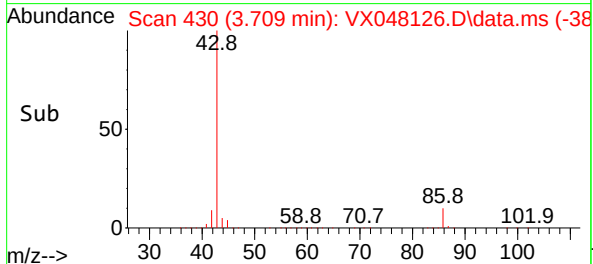
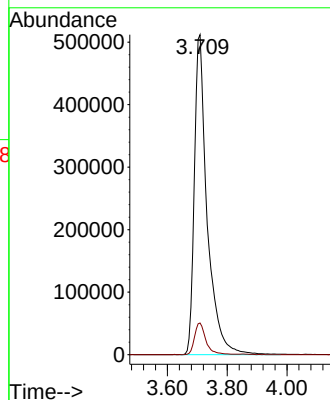
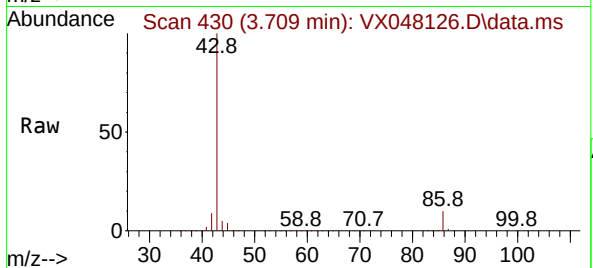
#23
Vinyl Acetate
Concen: 259.984 ug/l
RT: 3.709 min Scan# 411
Delta R.T. -0.006 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 152484
Ion Ratio Lower Upper
43 100
86 9.9 7.8 11.8

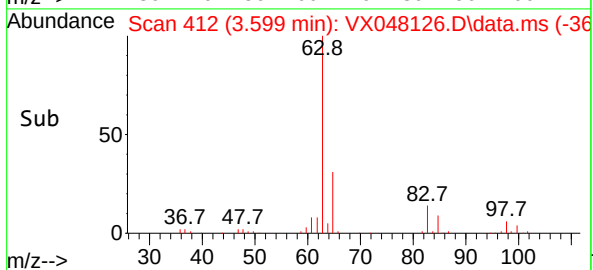
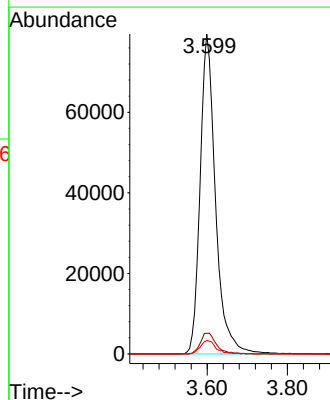
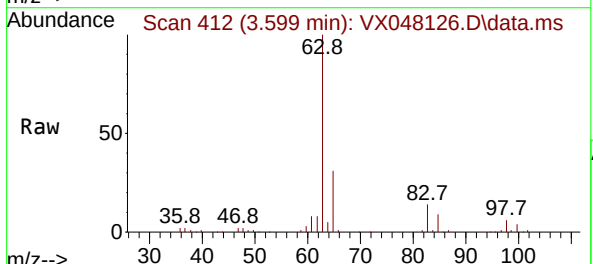
Manual Integrations
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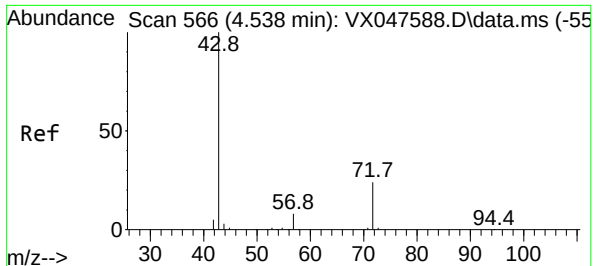
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#24
1,1-Dichloroethane
Concen: 54.414 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

Tgt Ion: 63 Resp: 211944
Ion Ratio Lower Upper
63 100
98 7.0 3.8 11.2
100 4.2 2.3 6.9





#25

2-Butanone

Concen: 243.044 ug/l

RT: 4.526 min Scan# 50

Delta R.T. -0.012 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 32361

Ion Ratio Lower Upper

43 100

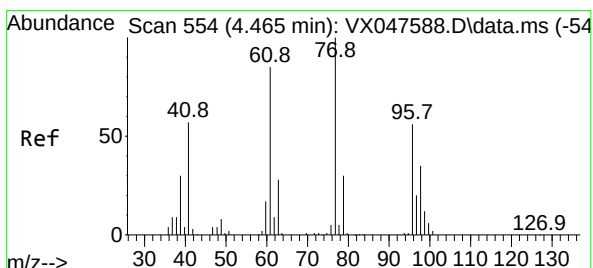
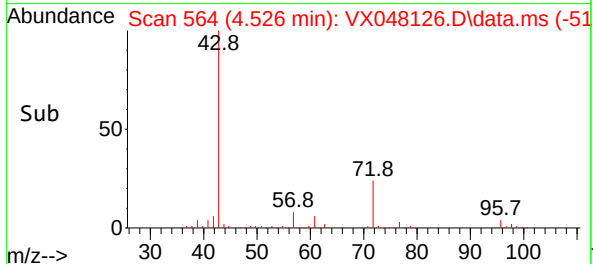
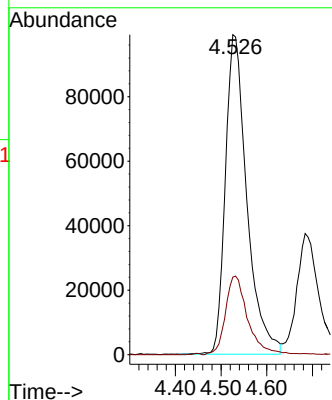
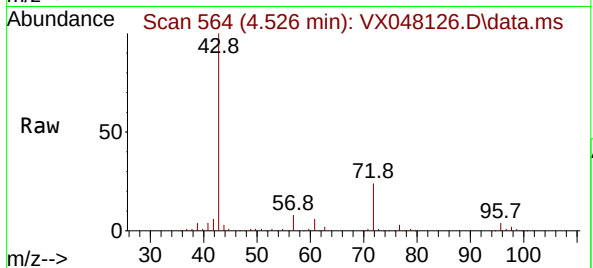
72 24.4 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#26

2,2-Dichloropropane

Concen: 54.594 ug/l

RT: 4.459 min Scan# 553

Delta R.T. -0.006 min

Lab File: VX048126.D

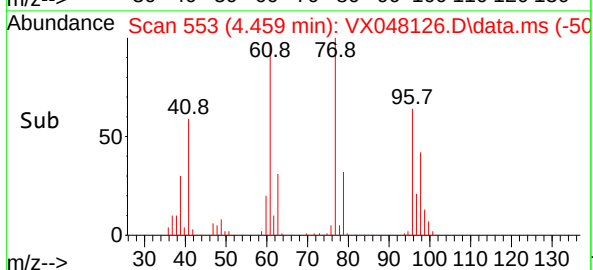
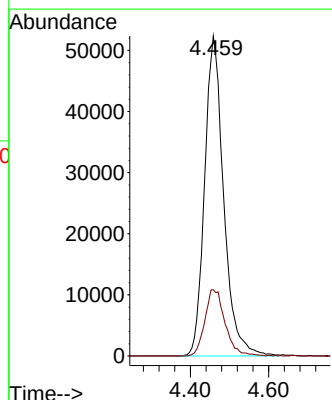
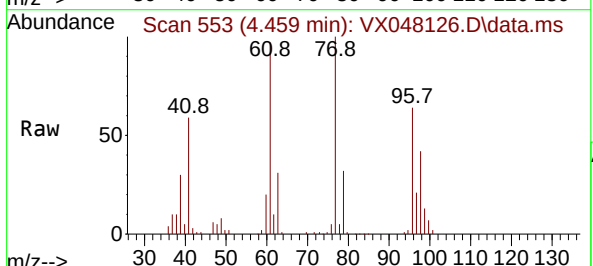
Acq: 13 Oct 2025 08:55

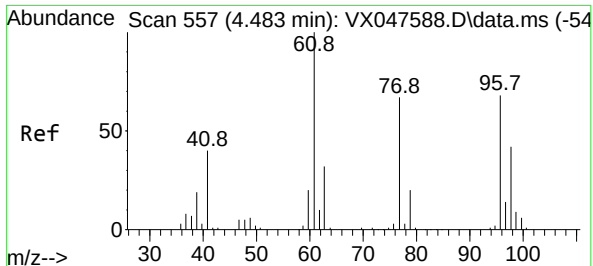
Tgt Ion: 77 Resp: 176762

Ion Ratio Lower Upper

77 100

97 21.9 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 53.263 ug/l

RT: 4.471 min Scan# 51

Delta R.T. -0.012 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 12868

Ion Ratio Lower Upper

96 100

61 150.0 0.0 303.2

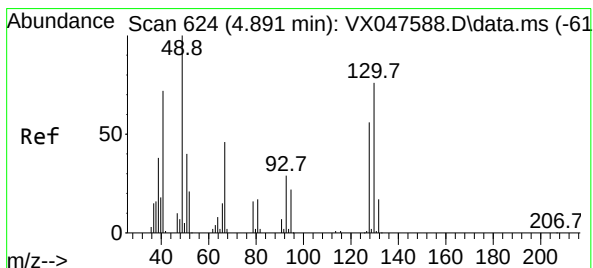
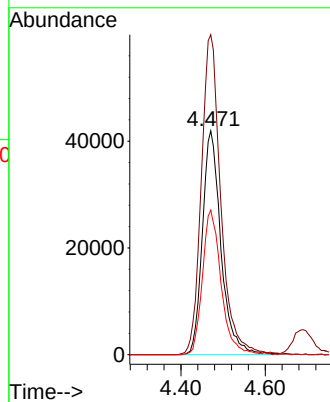
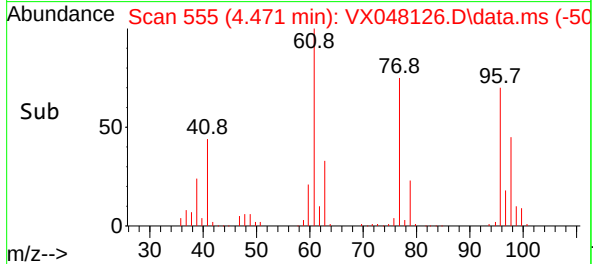
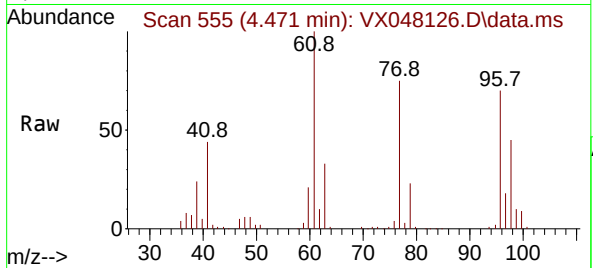
98 64.5 0.0 127.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#28

Bromochloromethane

Concen: 49.106 ug/l

RT: 4.879 min Scan# 622

Delta R.T. -0.012 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

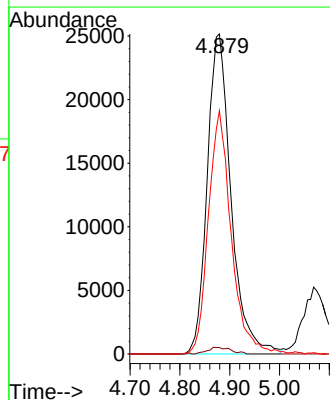
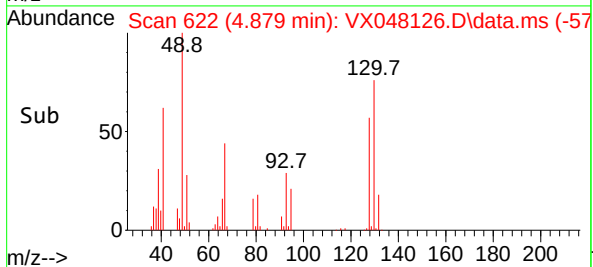
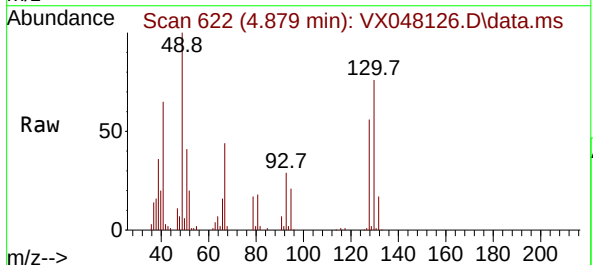
Tgt Ion: 49 Resp: 83502

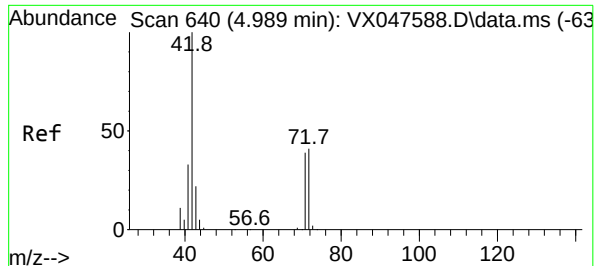
Ion Ratio Lower Upper

49 100

129 2.0 0.0 3.2

130 72.8 57.8 86.8





#29

Tetrahydrofuran

Concen: 219.136 ug/l

RT: 4.983 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 17552

Ion Ratio Lower Upper

42 100

72 43.2 34.2 51.2

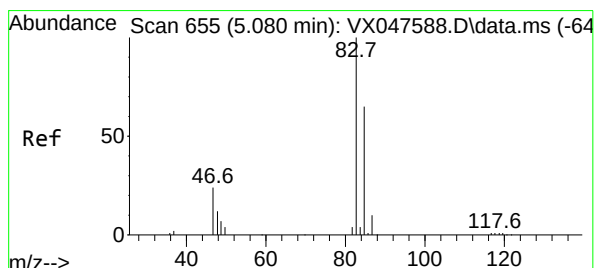
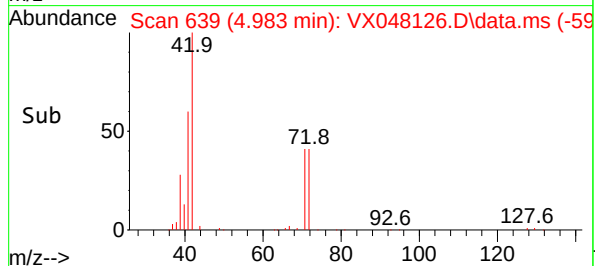
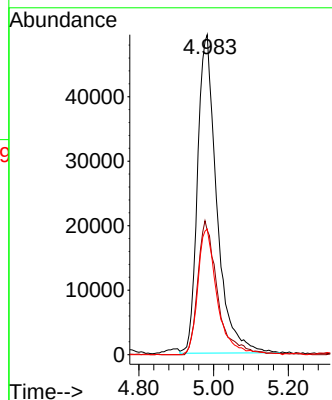
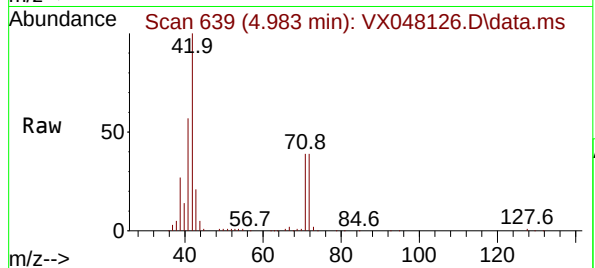
71 40.3 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#30

Chloroform

Concen: 53.388 ug/l

RT: 5.068 min Scan# 653

Delta R.T. -0.012 min

Lab File: VX048126.D

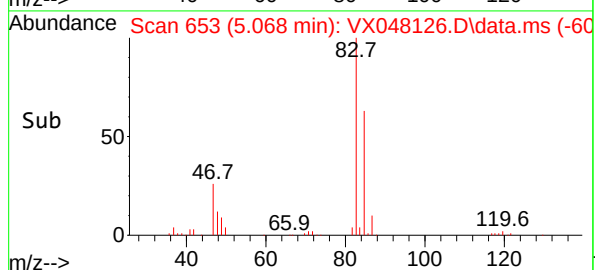
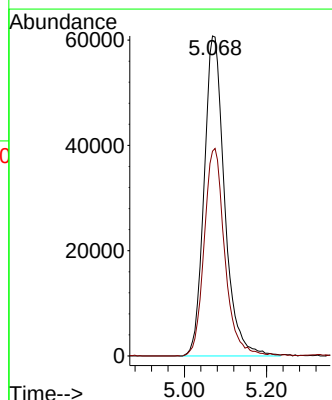
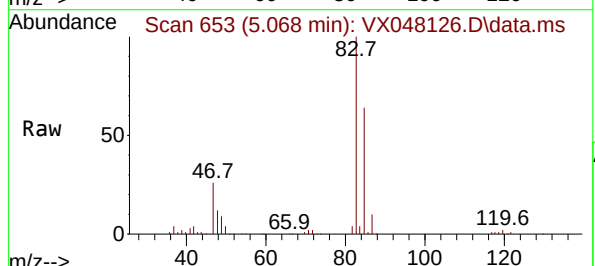
Acq: 13 Oct 2025 08:55

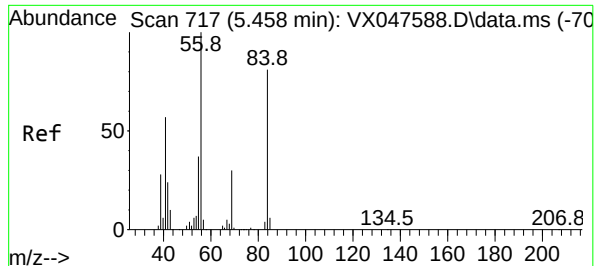
Tgt Ion: 83 Resp: 210135

Ion Ratio Lower Upper

83 100

85 61.4 51.8 77.6





#31

Cyclohexane

Concen: 54.883 ug/l

RT: 5.452 min Scan# 716

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 17804

Ion Ratio Lower Upper

56 100

69 28.2 23.8 35.8

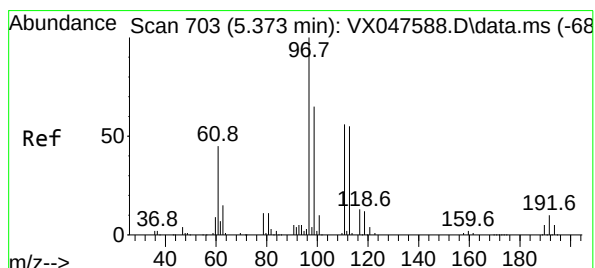
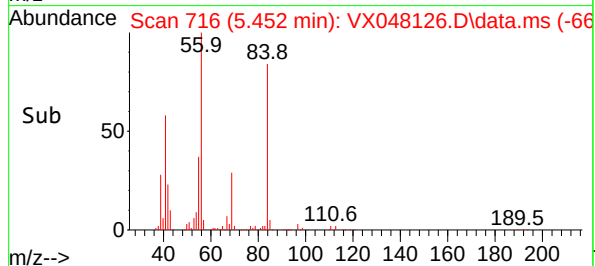
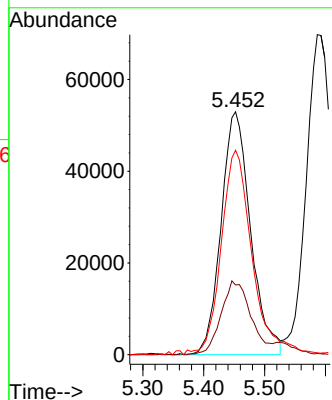
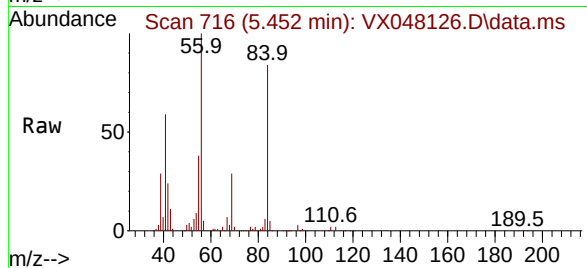
84 82.6 64.6 97.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#32

1,1,1-Trichloroethane

Concen: 55.516 ug/l

RT: 5.361 min Scan# 701

Delta R.T. -0.012 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

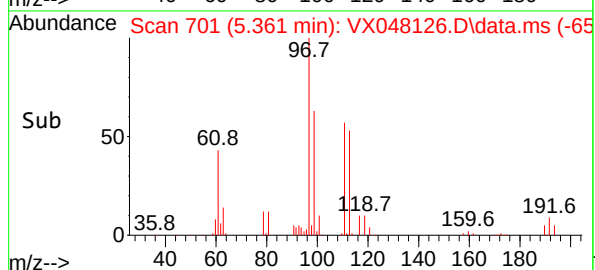
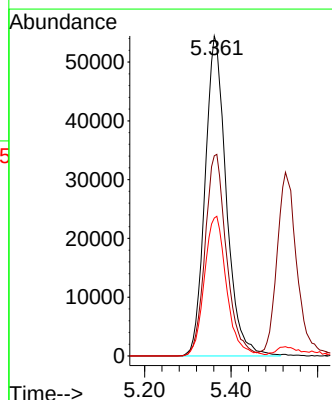
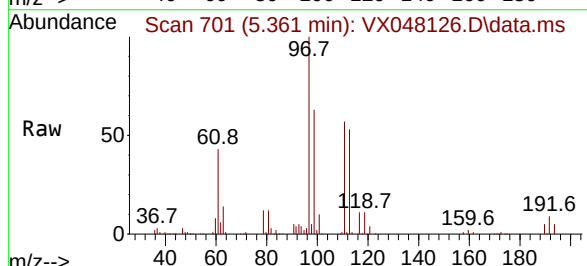
Tgt Ion: 97 Resp: 185345

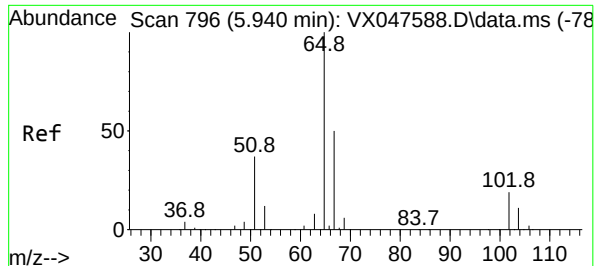
Ion Ratio Lower Upper

97 100

99 63.5 50.6 76.0

61 45.5 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 49.784 ug/l

RT: 5.934 min Scan# 796

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 122218

Ion Ratio Lower Upper

65 100

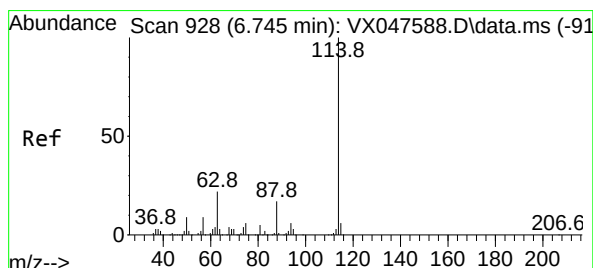
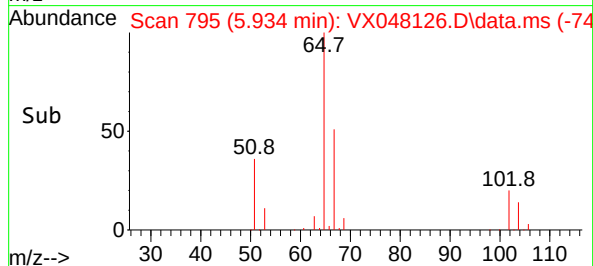
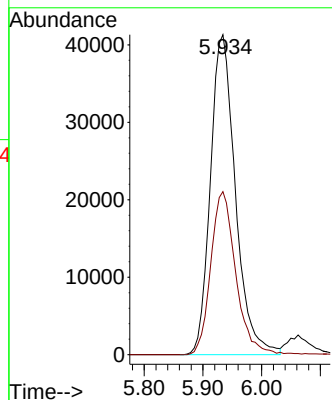
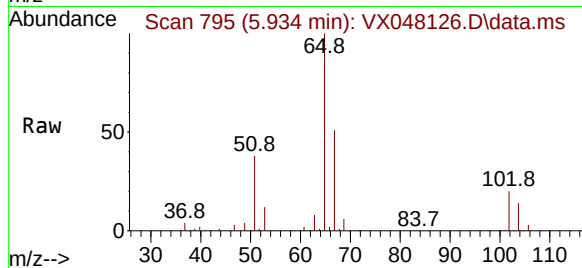
67 51.0 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.739 min Scan# 927

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

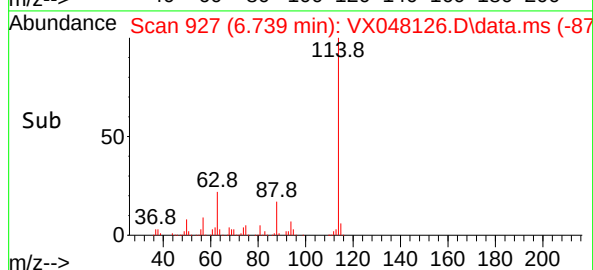
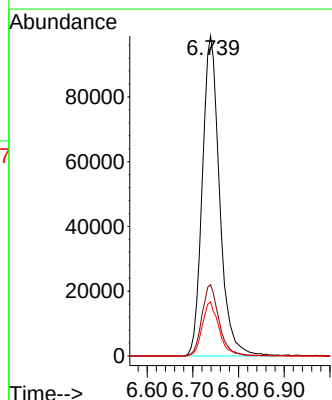
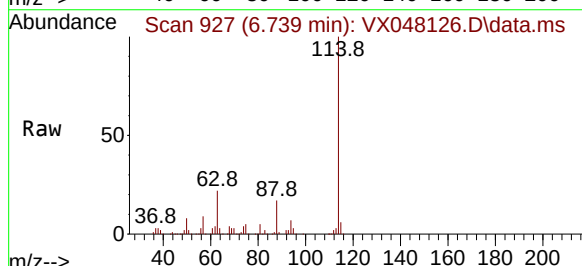
Tgt Ion:114 Resp: 259451

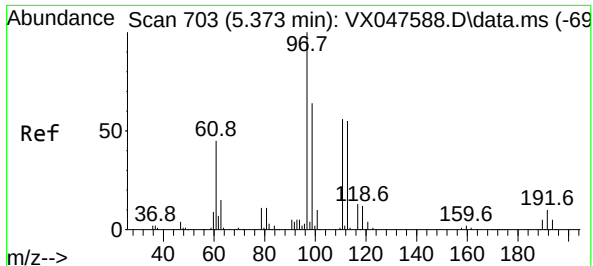
Ion Ratio Lower Upper

114 100

63 22.3 0.0 44.0

88 16.9 0.0 34.2





#35

Dibromofluoromethane

Concen: 55.205 ug/l

RT: 5.361 min Scan# 703

Delta R.T. -0.012 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

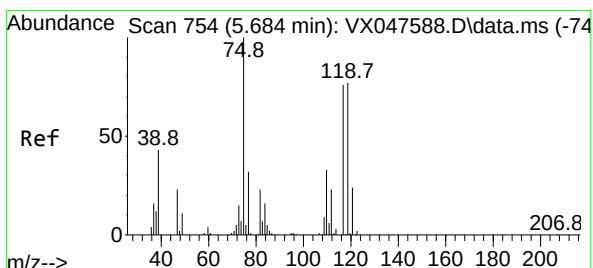
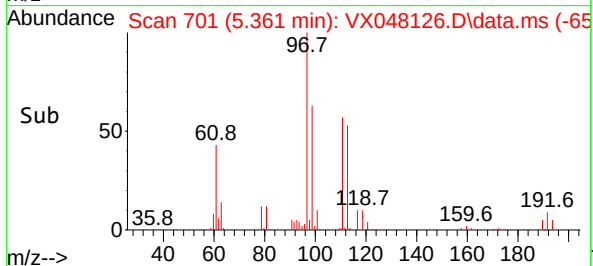
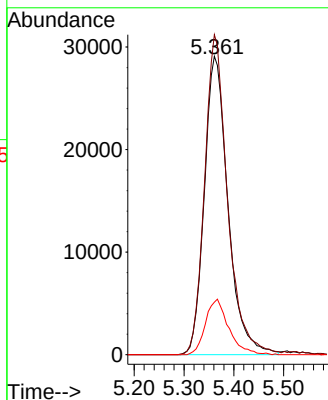
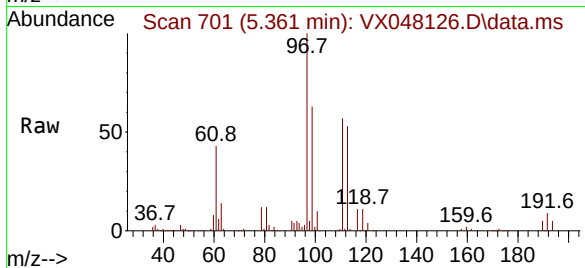
ClientSampleId :

VSTDCCC050

Tgt Ion:	113	Resp:	9605
Ion	Ratio	Lower	Upper
113	100		
111	104.1	80.9	121.3
192	18.3	14.2	21.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#36

1,1-Dichloropropene

Concen: 56.468 ug/l

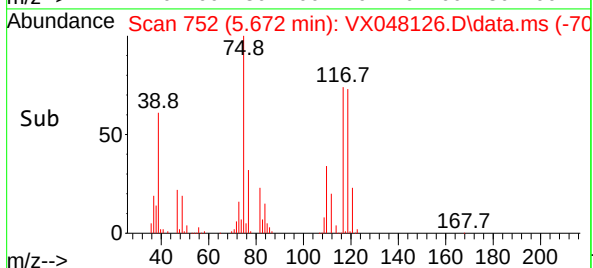
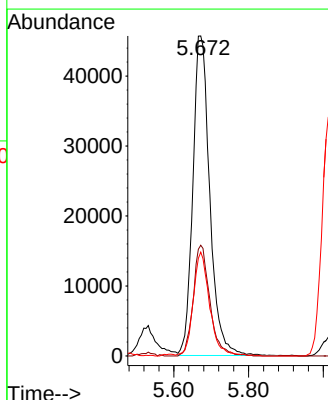
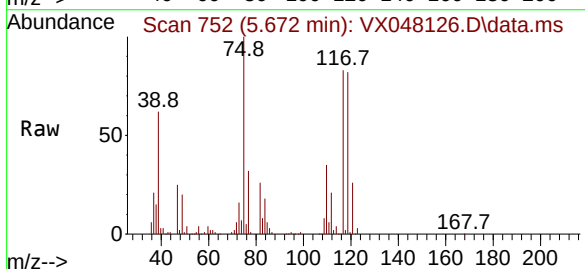
RT: 5.672 min Scan# 752

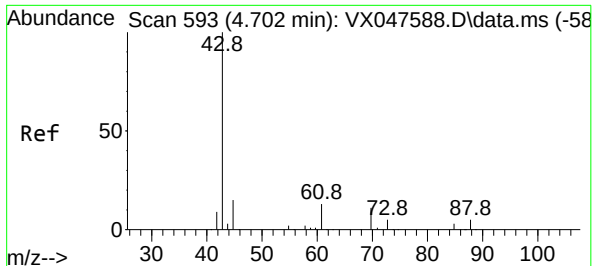
Delta R.T. -0.012 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Tgt Ion:	75	Resp:	143574
Ion	Ratio	Lower	Upper
75	100		
110	34.1	16.7	50.1
77	30.9	24.3	36.5





#37

Ethyl Acetate

Concen: 46.586 ug/l

RT: 4.684 min Scan# 593

Delta R.T. -0.018 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

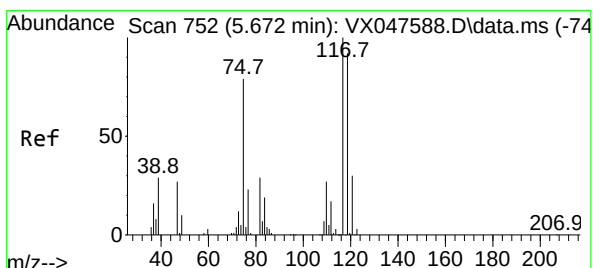
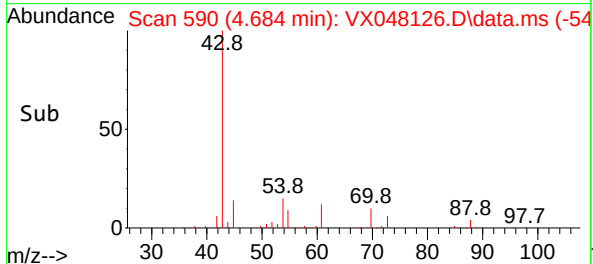
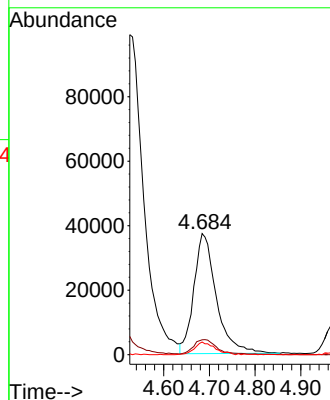
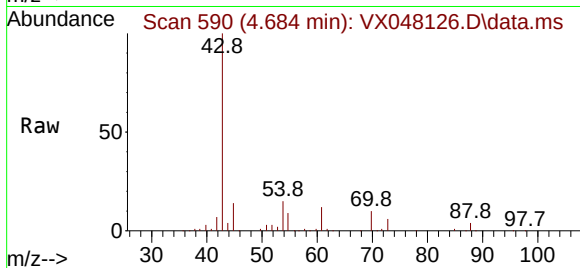
VSTDCCC050

Tgt Ion:	43	Resp:	126824
Ion Ratio	Lower	Upper	
43	100		
61	11.9	9.8	14.8
70	9.4	7.9	11.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#38

Carbon Tetrachloride

Concen: 58.100 ug/l

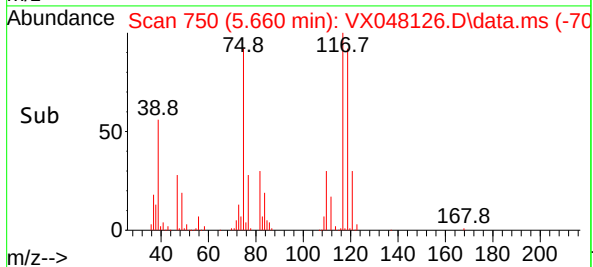
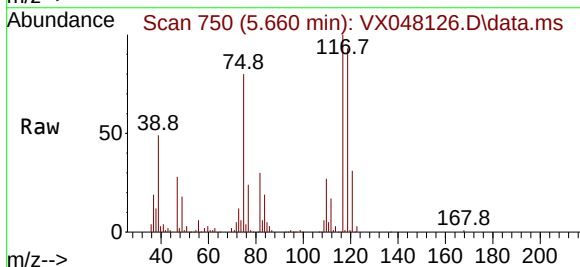
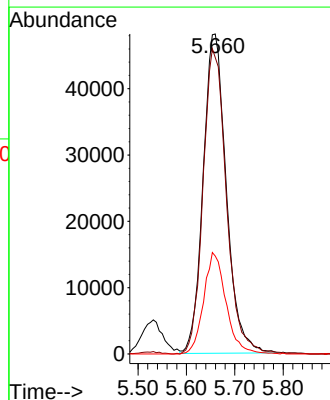
RT: 5.660 min Scan# 750

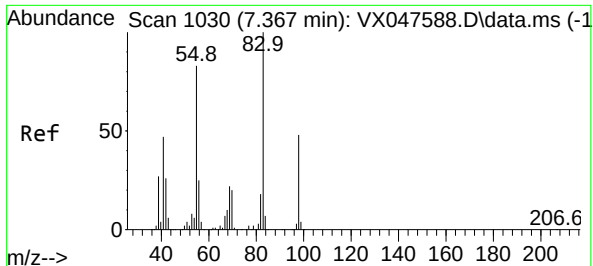
Delta R.T. -0.012 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Tgt Ion:	117	Resp:	160504
Ion Ratio	Lower	Upper	
117	100		
119	93.0	73.4	110.2
121	30.7	23.8	35.6





#39

Methylcyclohexane

Concen: 59.013 ug/l

RT: 7.361 min Scan# 1030

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 17032

Ion Ratio Lower Upper

83 100

55 80.9 66.4 99.6

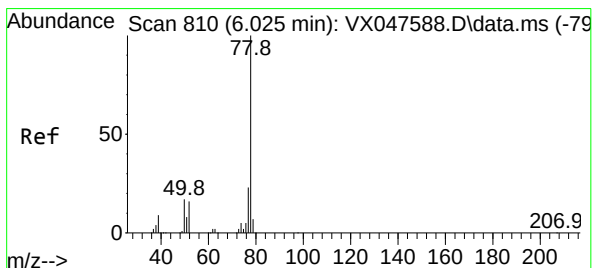
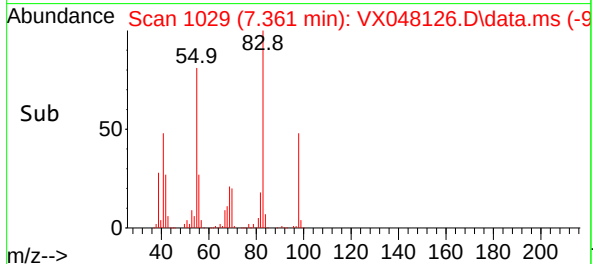
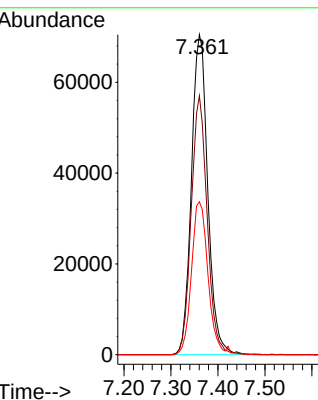
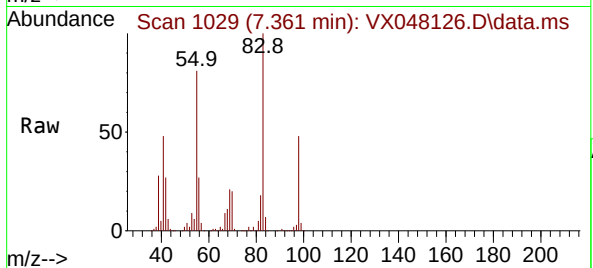
98 47.8 38.1 57.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#40

Benzene

Concen: 55.778 ug/l

RT: 6.013 min Scan# 808

Delta R.T. -0.012 min

Lab File: VX048126.D

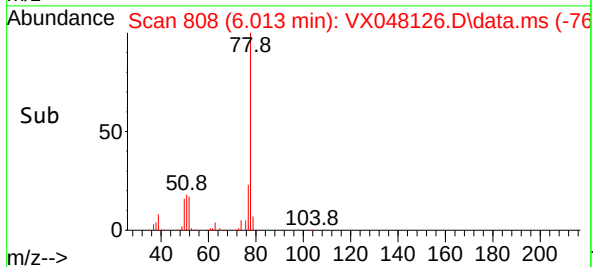
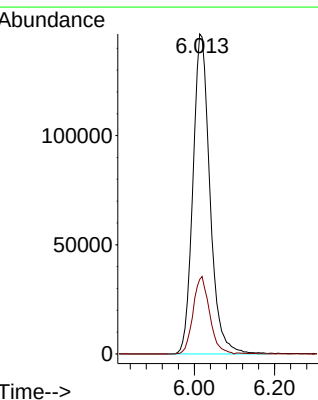
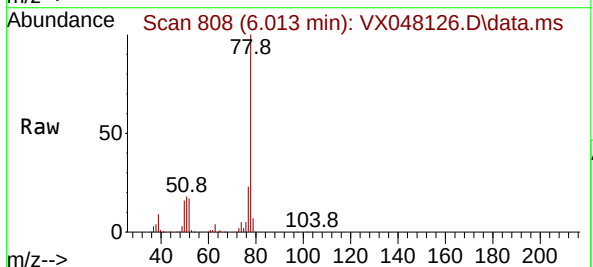
Acq: 13 Oct 2025 08:55

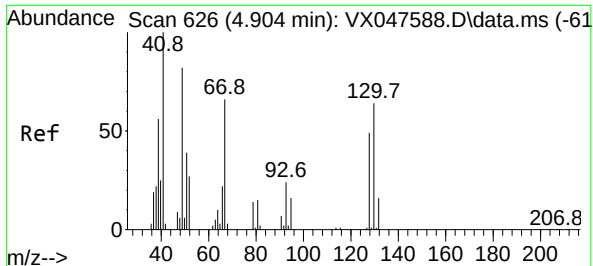
Tgt Ion: 78 Resp: 430744

Ion Ratio Lower Upper

78 100

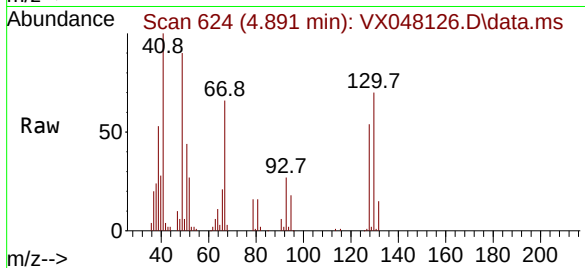
77 23.3 18.8 28.2





#41
Methacrylonitrile
Concen: 51.306 ug/l
RT: 4.891 min Scan# 61
Delta R.T. -0.012 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

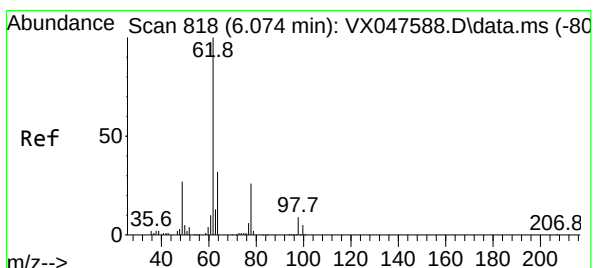
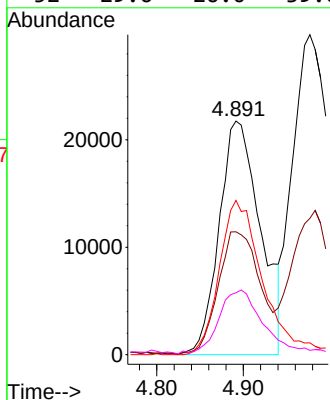
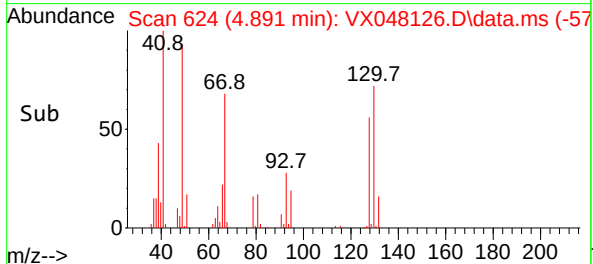
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



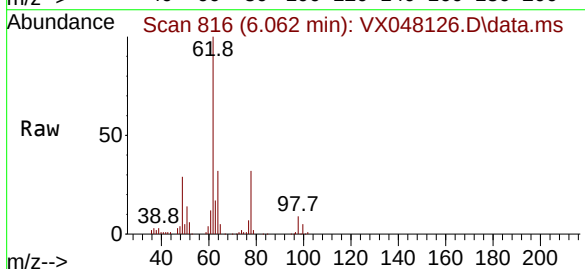
Tgt Ion: 41 Resp: 7210
Ion Ratio Lower Upper
41 100
39 52.3 43.3 64.9
67 70.0 58.6 87.8
52 29.6 26.0 39.0

Manual Integrations
APPROVED

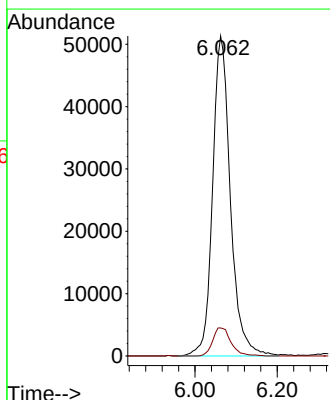
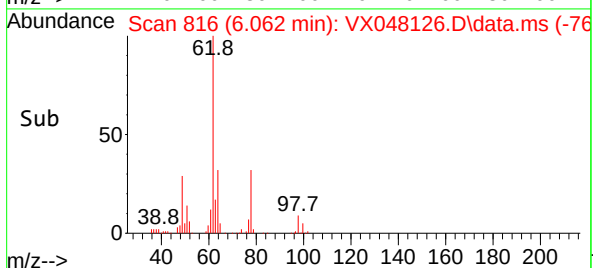
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

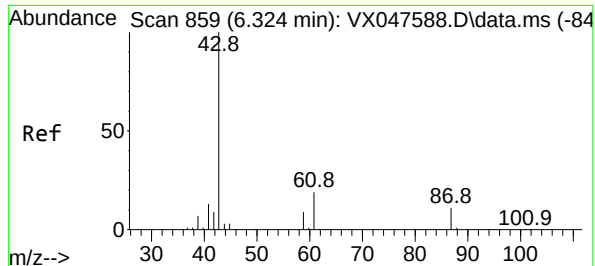


#42
1,2-Dichloroethane
Concen: 52.496 ug/l
RT: 6.062 min Scan# 816
Delta R.T. -0.012 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55



Tgt Ion: 62 Resp: 154248
Ion Ratio Lower Upper
62 100
98 9.1 0.0 17.0





#43

Isopropyl Acetate

Concen: 46.211 ug/l

RT: 6.312 min Scan# 857

Delta R.T. -0.012 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 206320

Ion Ratio Lower Upper

43 100

61 18.9 15.2 22.8

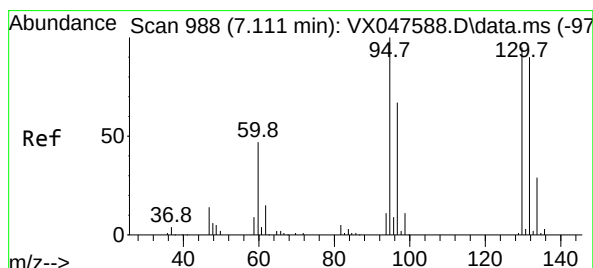
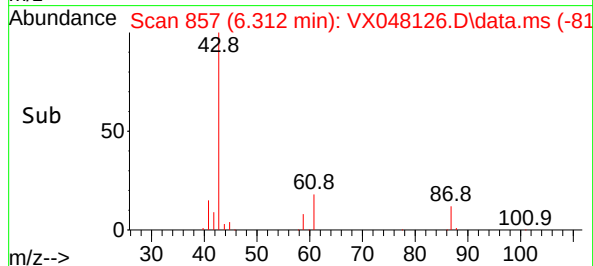
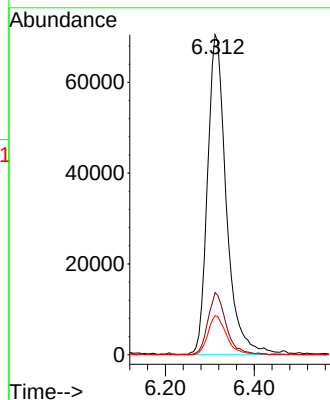
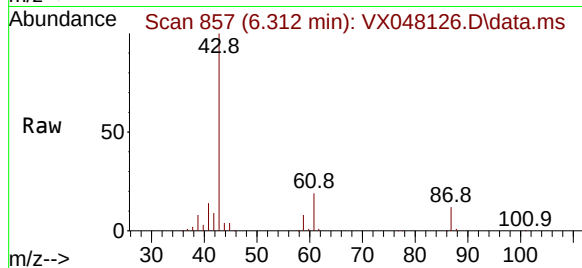
87 12.2 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#44

Trichloroethene

Concen: 55.775 ug/l

RT: 7.104 min Scan# 987

Delta R.T. -0.006 min

Lab File: VX048126.D

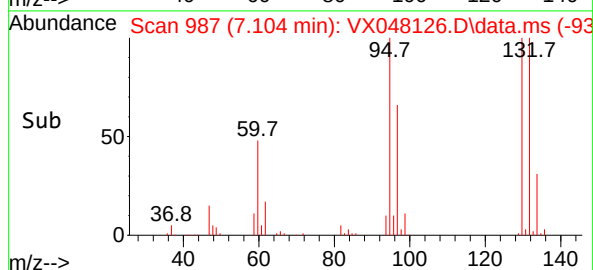
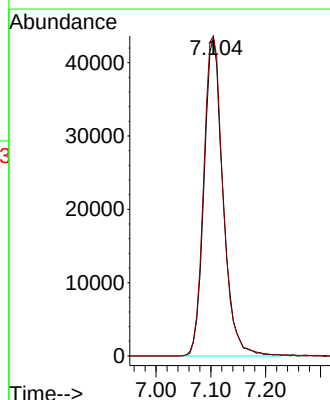
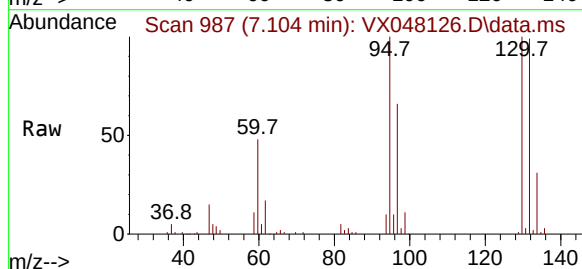
Acq: 13 Oct 2025 08:55

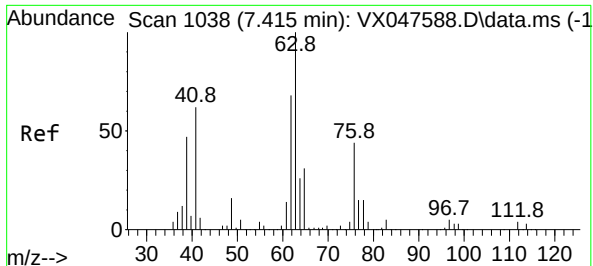
Tgt Ion:130 Resp: 104133

Ion Ratio Lower Upper

130 100

95 100.4 0.0 210.8





#45

1,2-Dichloropropane

Concen: 53.550 ug/l

RT: 7.409 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 10589

Ion Ratio Lower Upper

63 100

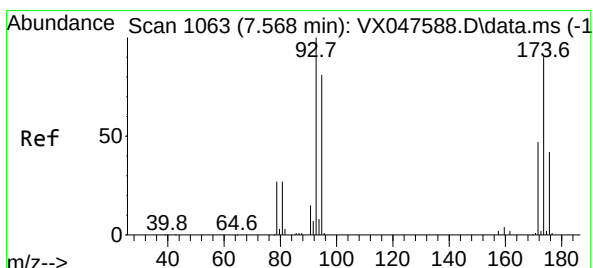
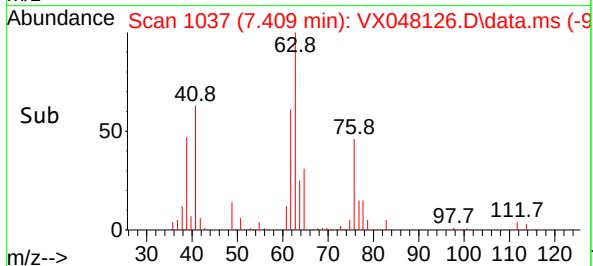
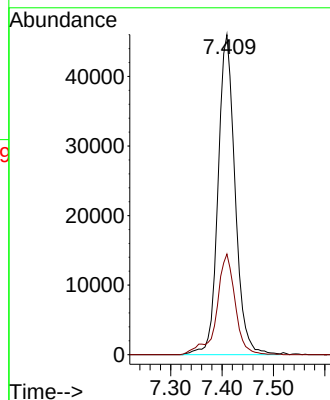
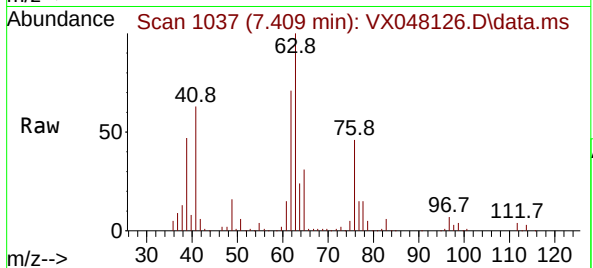
65 31.5 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#46

Dibromomethane

Concen: 53.485 ug/l

RT: 7.562 min Scan# 1062

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

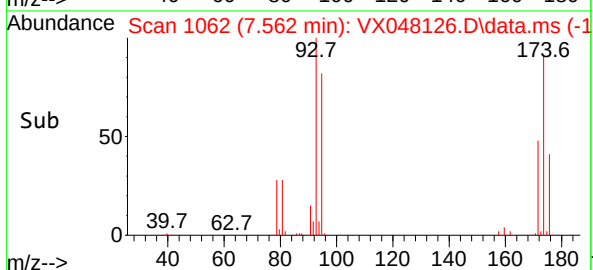
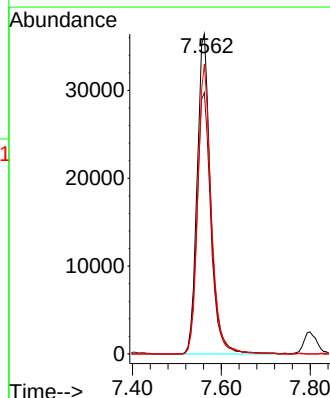
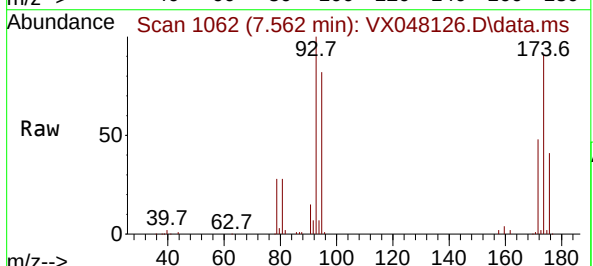
Tgt Ion: 93 Resp: 76964

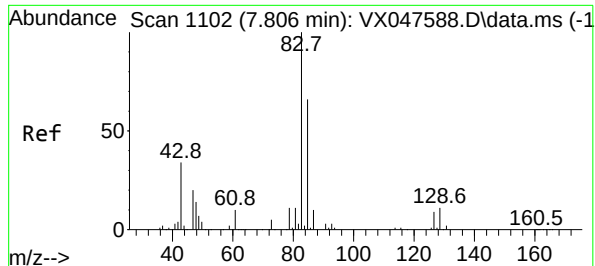
Ion Ratio Lower Upper

93 100

95 83.8 65.0 97.6

174 90.4 71.6 107.4





#47

Bromodichloromethane

Concen: 54.741 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

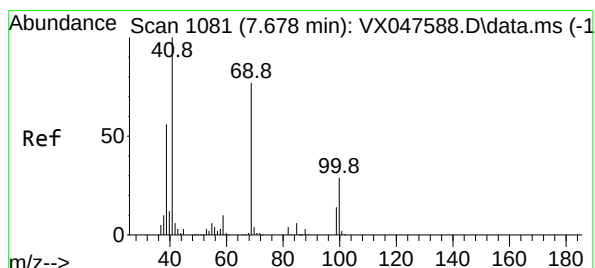
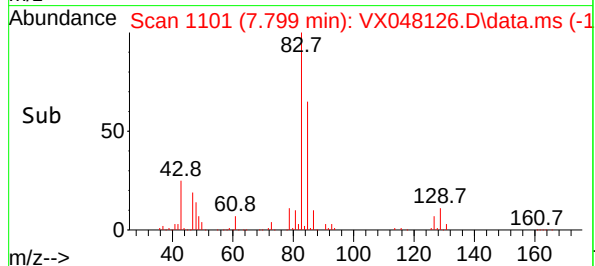
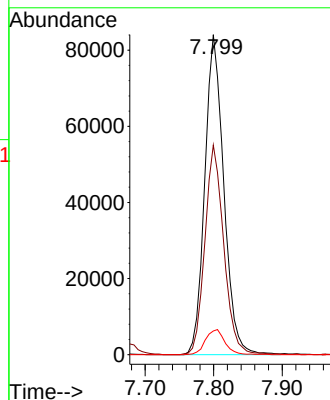
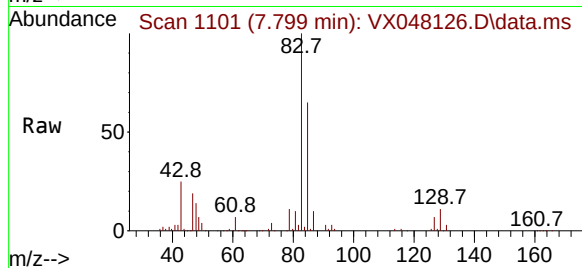
VSTDCCC050

Tgt Ion:	83	Resp:	16254
Ion	Ratio	Lower	Upper
83	100		
85	65.5	52.5	78.7
127	7.4	6.9	10.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#48

Methyl methacrylate

Concen: 46.937 ug/l

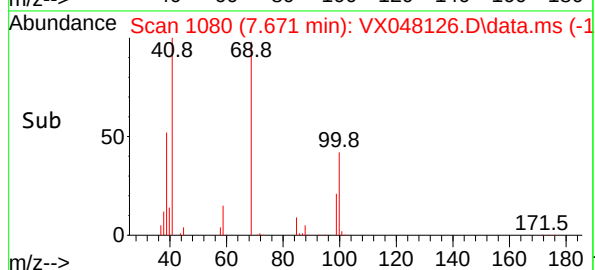
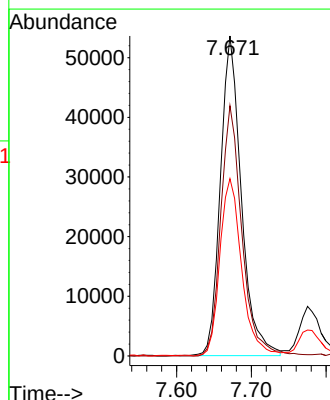
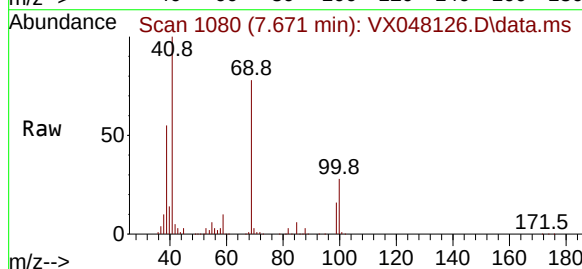
RT: 7.671 min Scan# 1080

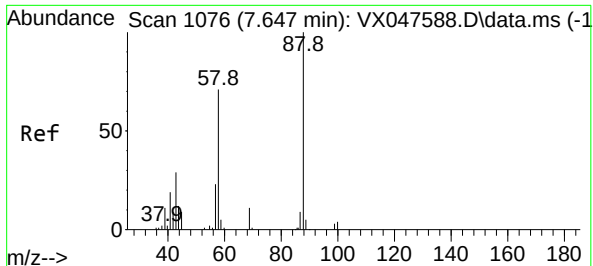
Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Tgt Ion:	41	Resp:	104388
Ion	Ratio	Lower	Upper
41	100		
69	79.2	61.4	92.2
39	57.9	45.8	68.6





#49

1,4-Dioxane

Concen: 1072.749 ug/l

RT: 7.641 min Scan# 1075

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 2411

Ion Ratio Lower Upper

88 100

43 41.0 30.2 45.2

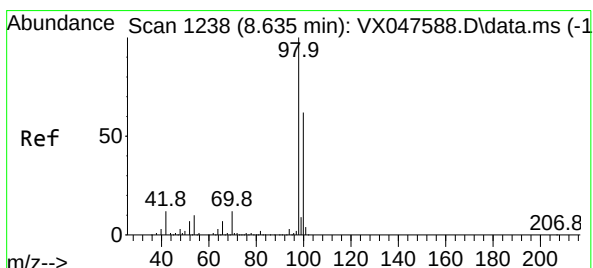
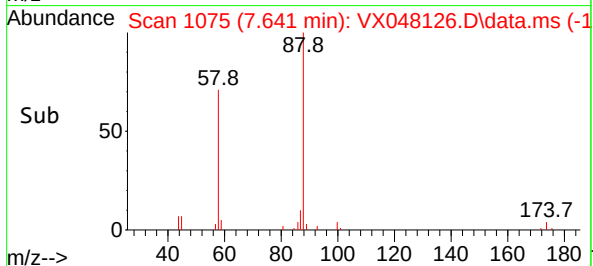
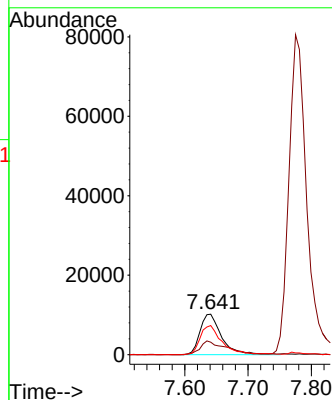
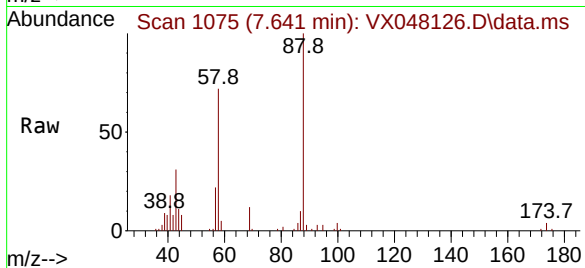
58 72.0 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#50

Toluene-d8

Concen: 53.153 ug/l

RT: 8.629 min Scan# 1237

Delta R.T. -0.006 min

Lab File: VX048126.D

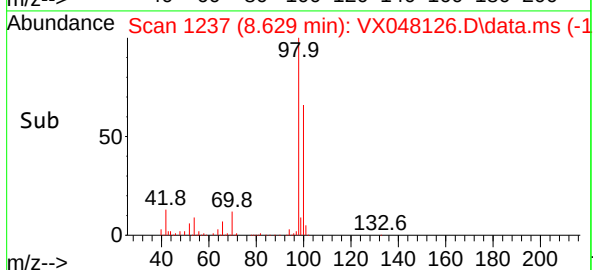
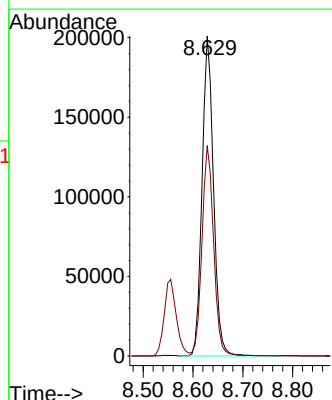
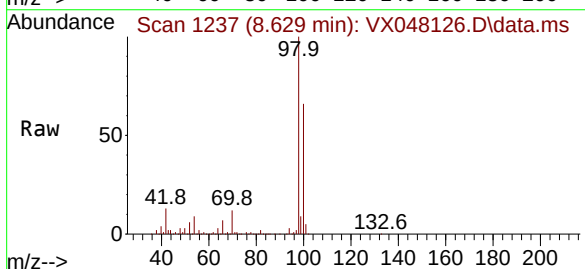
Acq: 13 Oct 2025 08:55

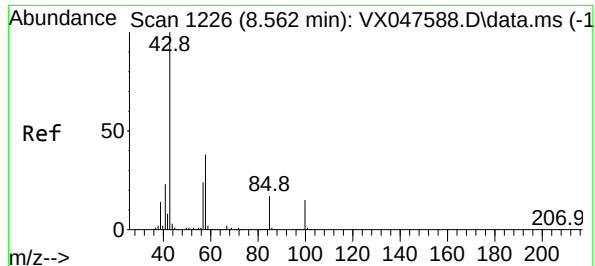
Tgt Ion: 98 Resp: 320023

Ion Ratio Lower Upper

98 100

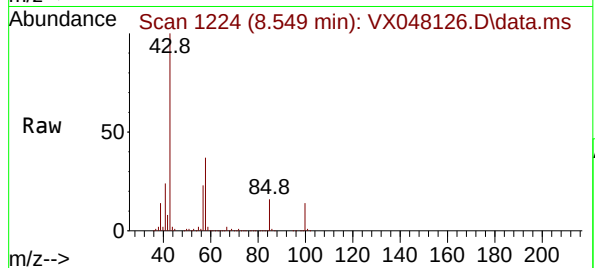
100 66.5 53.0 79.4





#51
4-Methyl-2-Pentanone
Concen: 230.231 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.012 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

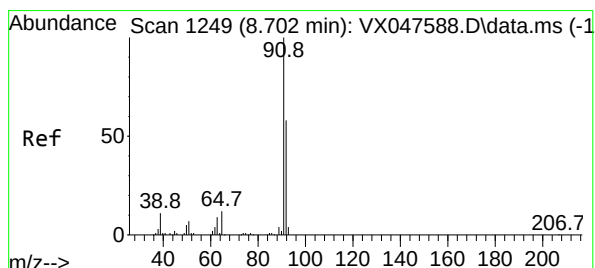
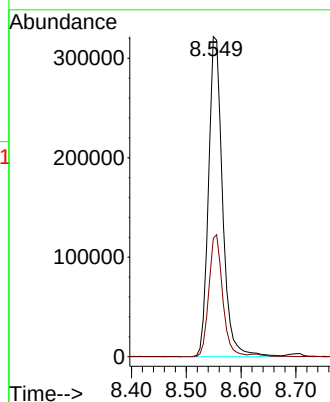
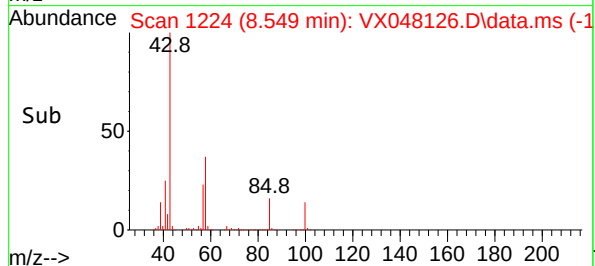
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 56994
Ion Ratio Lower Upper
43 100
58 37.3 30.3 45.5

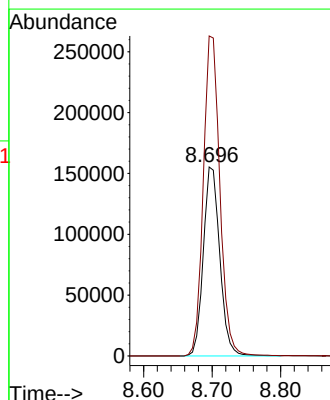
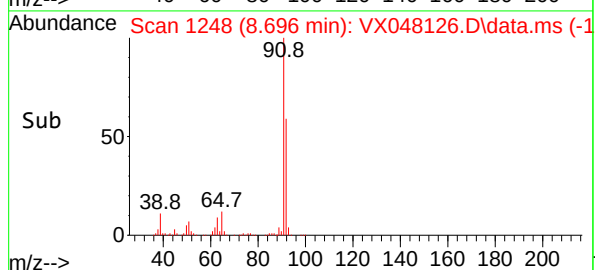
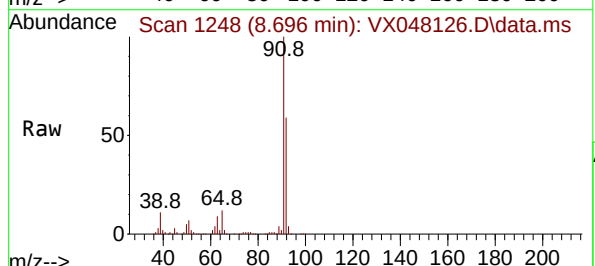
Manual Integrations
APPROVED

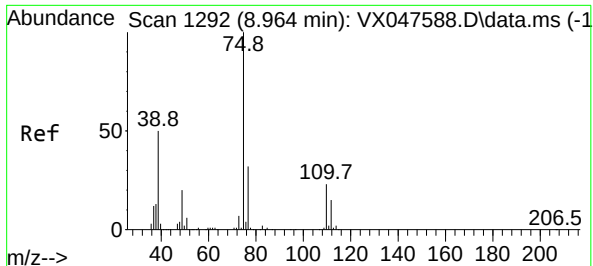
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#52
Toluene
Concen: 54.605 ug/l
RT: 8.696 min Scan# 1248
Delta R.T. -0.006 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

Tgt Ion: 92 Resp: 259802
Ion Ratio Lower Upper
92 100
91 170.8 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 53.099 ug/l

RT: 8.958 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 160828

Ion Ratio Lower Upper

75 100

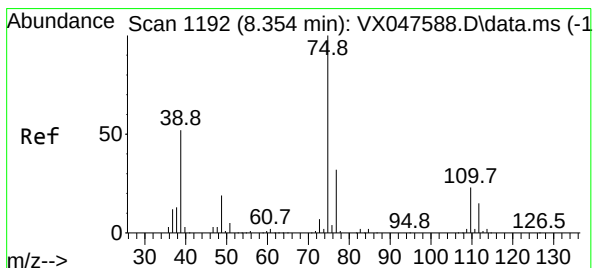
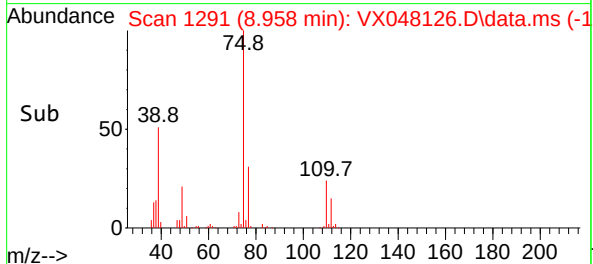
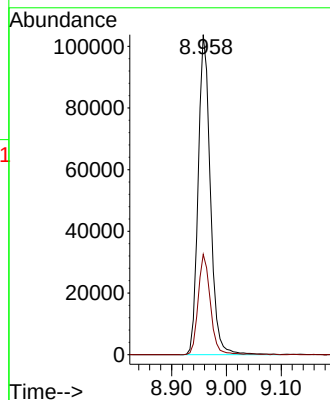
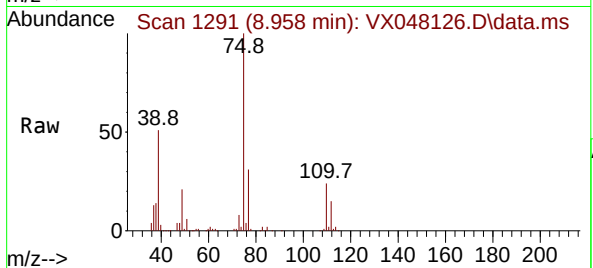
77 31.3 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#54

cis-1,3-Dichloropropene

Concen: 54.388 ug/l

RT: 8.348 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

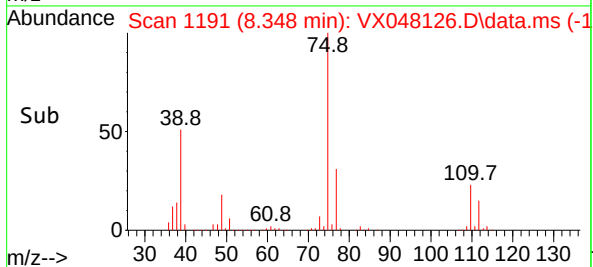
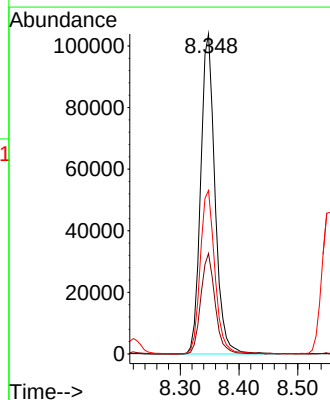
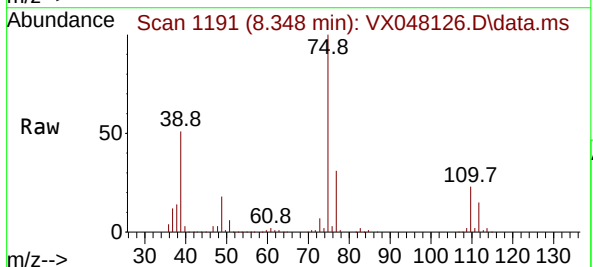
Tgt Ion: 75 Resp: 176072

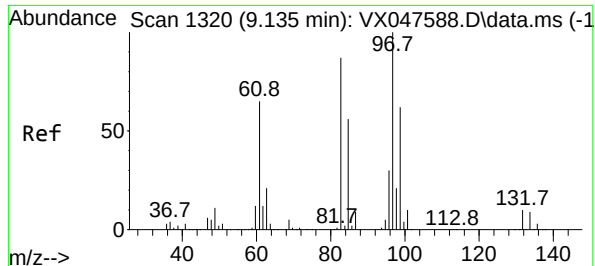
Ion Ratio Lower Upper

75 100

77 31.4 25.8 38.6

39 50.5 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 51.931 ug/l

RT: 9.135 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 95272

Ion Ratio Lower Upper

97 100

83 84.4 69.6 104.4

85 53.8 45.0 67.6

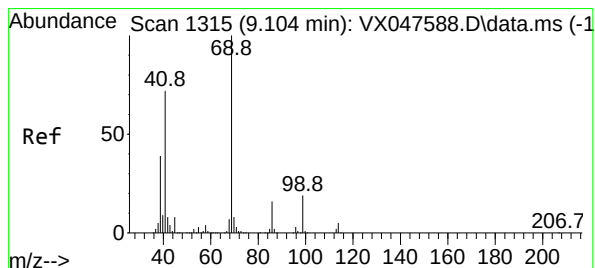
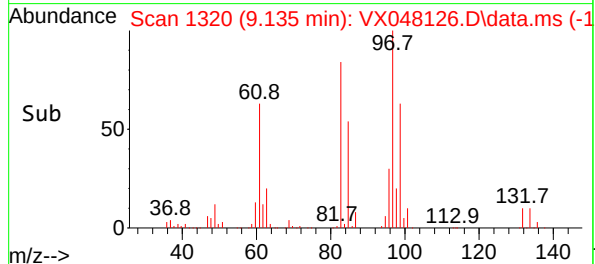
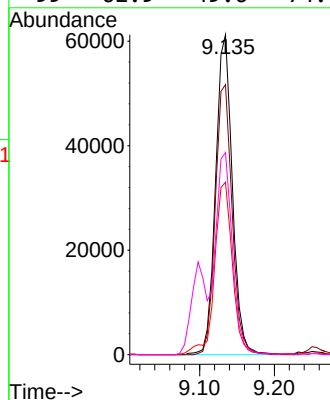
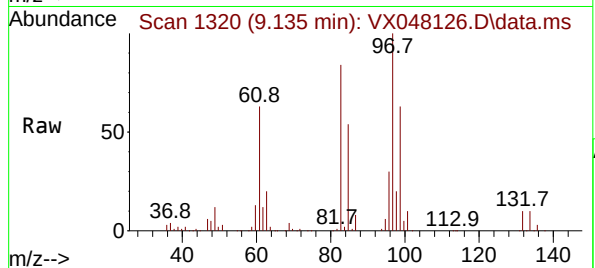
99 62.9 49.6 74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#56

Ethyl methacrylate

Concen: 48.333 ug/l

RT: 9.098 min Scan# 1314

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

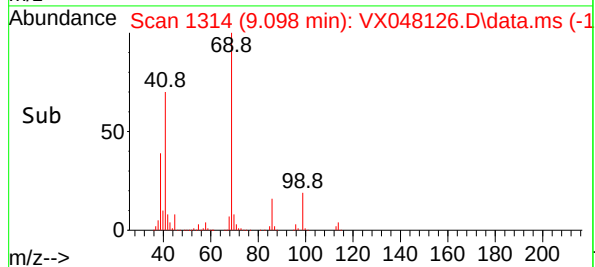
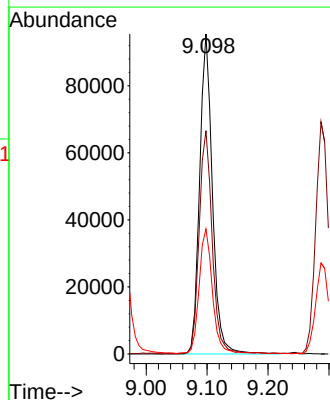
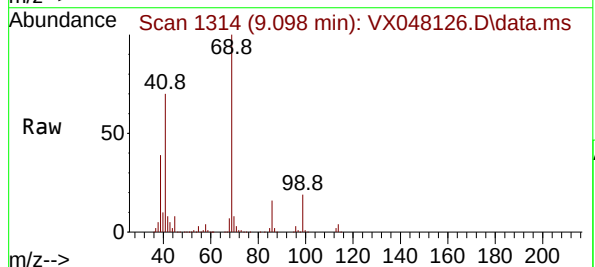
Tgt Ion: 69 Resp: 139255

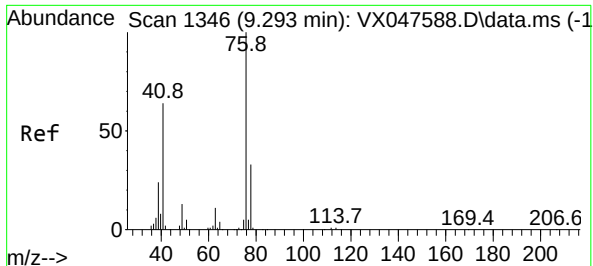
Ion Ratio Lower Upper

69 100

41 71.0 58.6 87.8

39 40.4 31.5 47.3





#57

1,3-Dichloropropane

Concen: 52.630 ug/l

RT: 9.287 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 16586

Ion Ratio Lower Upper

76 100

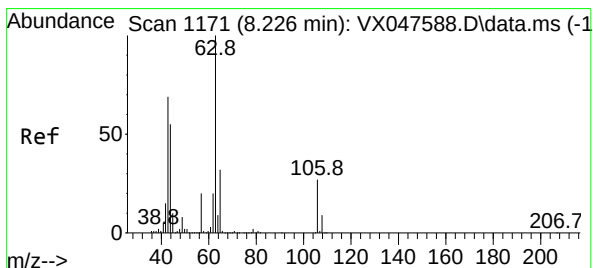
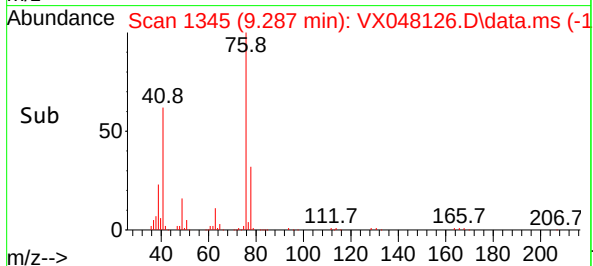
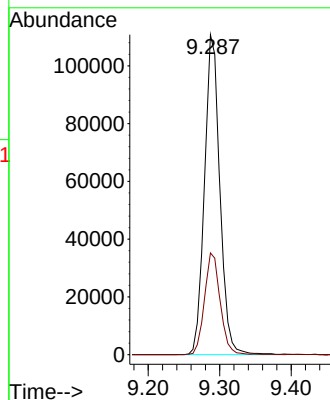
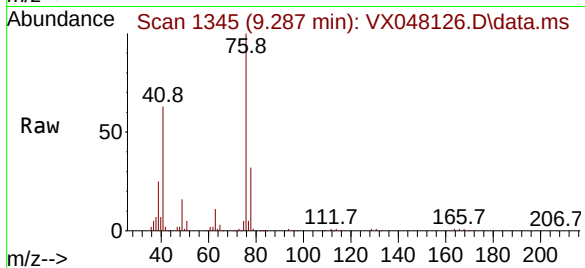
78 32.6 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#58

2-Chloroethyl Vinyl ether

Concen: 244.822 ug/l

RT: 8.220 min Scan# 1170

Delta R.T. -0.006 min

Lab File: VX048126.D

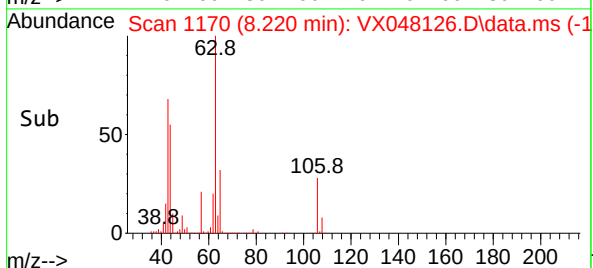
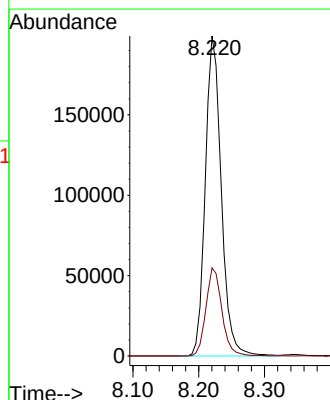
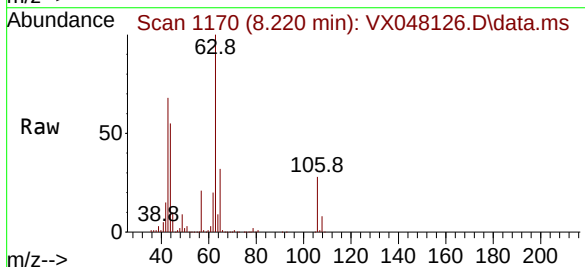
Acq: 13 Oct 2025 08:55

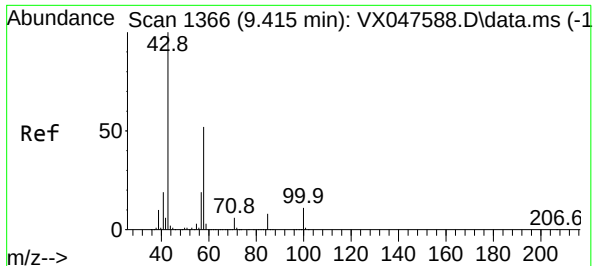
Tgt Ion: 63 Resp: 336481

Ion Ratio Lower Upper

63 100

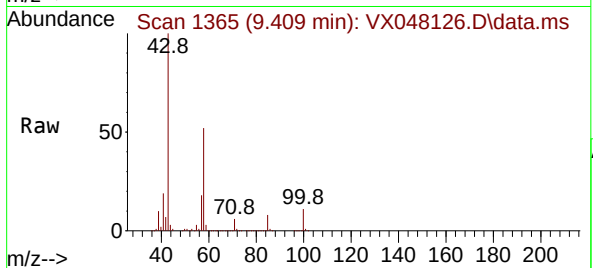
106 27.6 21.9 32.9





#59
2-Hexanone
Concen: 236.180 ug/l
RT: 9.409 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

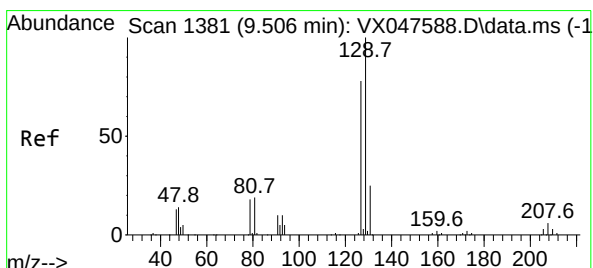
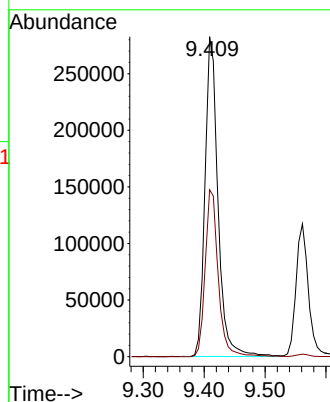
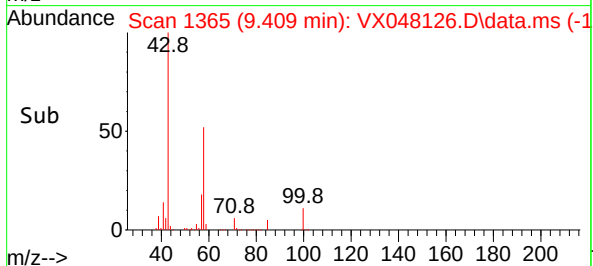
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 41991
Ion Ratio Lower Upper
43 100
58 52.5 26.1 78.2

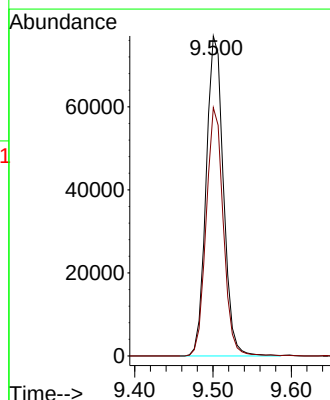
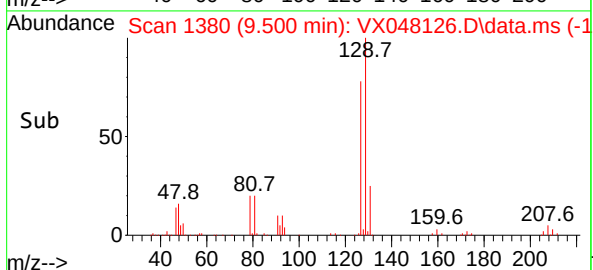
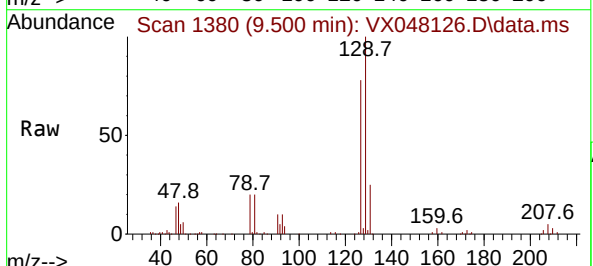
Manual Integrations
APPROVED

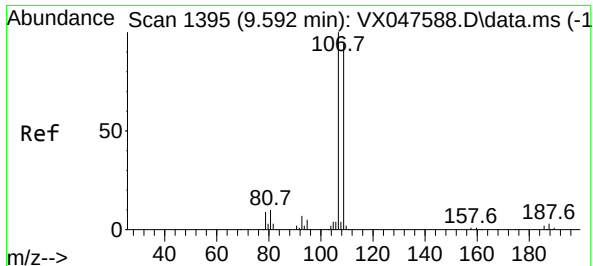
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#60
Dibromochloromethane
Concen: 55.685 ug/l
RT: 9.500 min Scan# 1380
Delta R.T. -0.006 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

Tgt Ion:129 Resp: 117709
Ion Ratio Lower Upper
129 100
127 77.0 38.4 115.2





#61

1,2-Dibromoethane

Concen: 52.384 ug/l

RT: 9.592 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:107 Resp: 9788

Ion Ratio Lower Upper

107 100

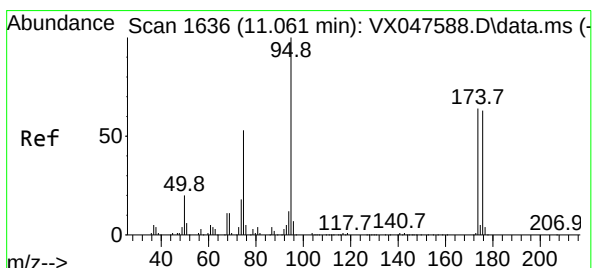
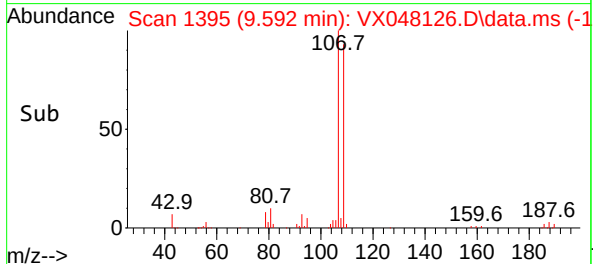
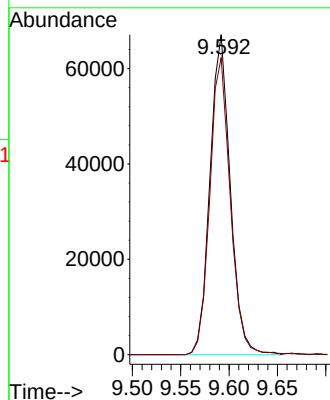
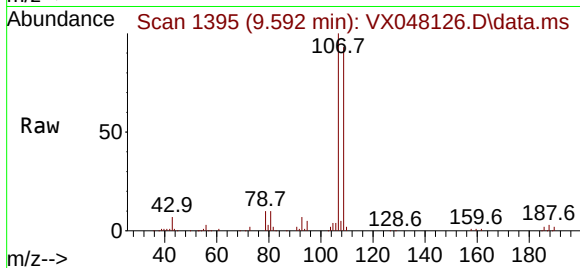
109 94.0 75.3 112.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#62

4-Bromofluorobenzene

Concen: 51.831 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.000 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

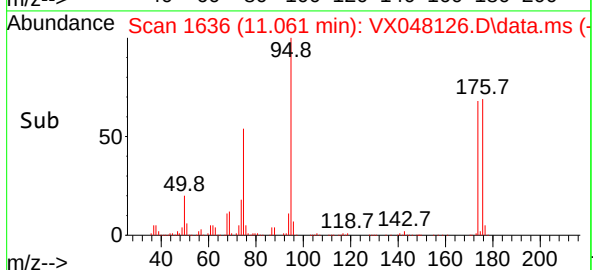
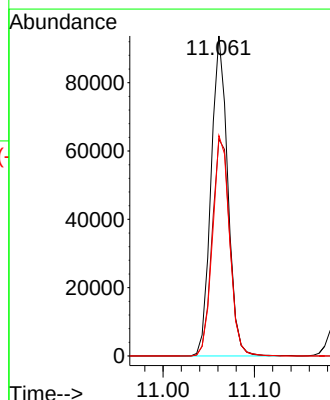
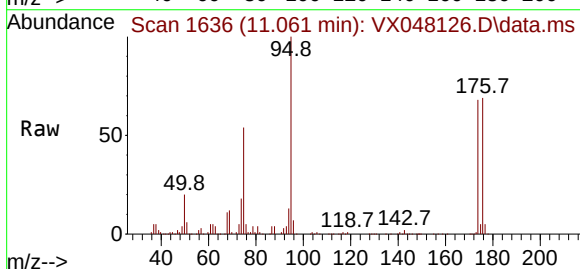
Tgt Ion: 95 Resp: 118434

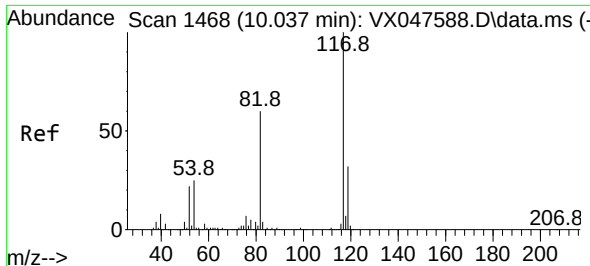
Ion Ratio Lower Upper

95 100

174 71.9 0.0 141.6

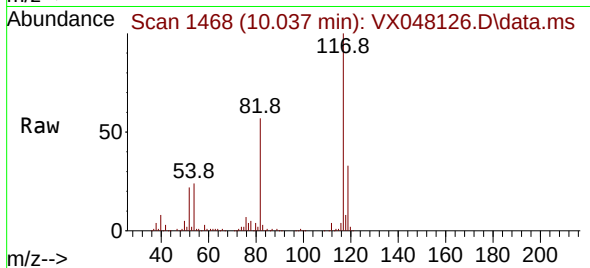
176 70.2 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

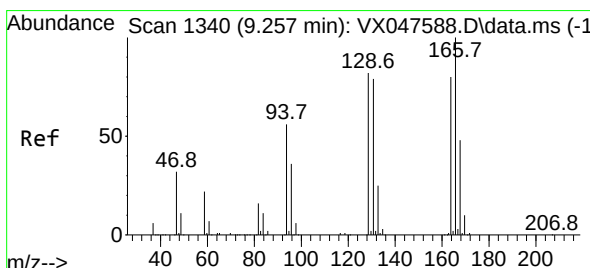
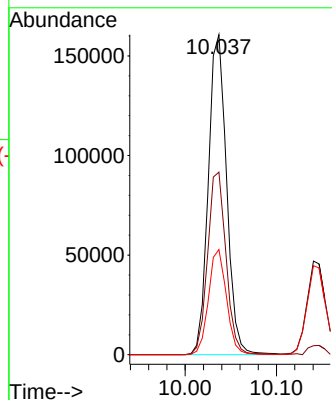
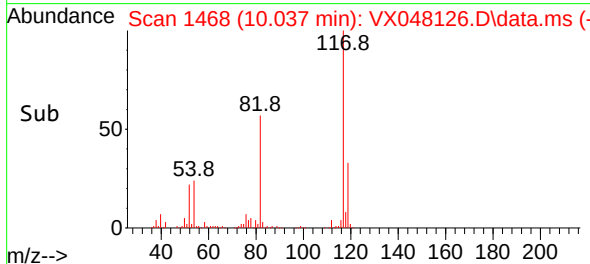
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:117 Resp: 223200
Ion Ratio Lower Upper
117 100
82 57.0 47.8 71.6
119 32.9 25.2 37.8

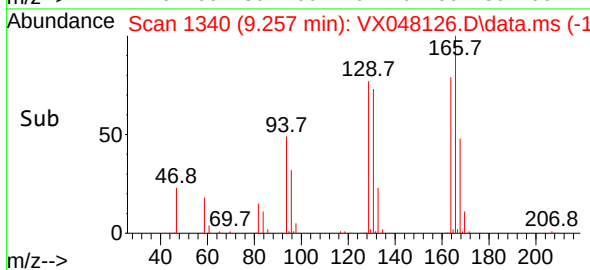
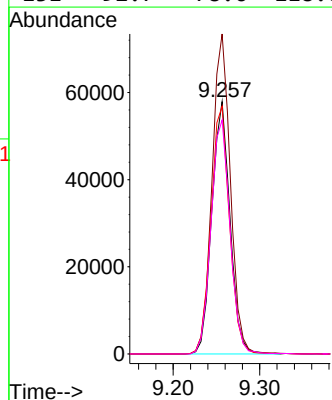
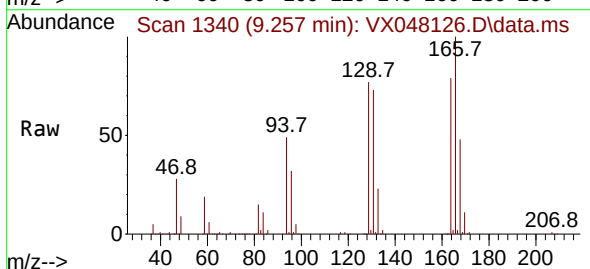
Manual Integrations
APPROVED

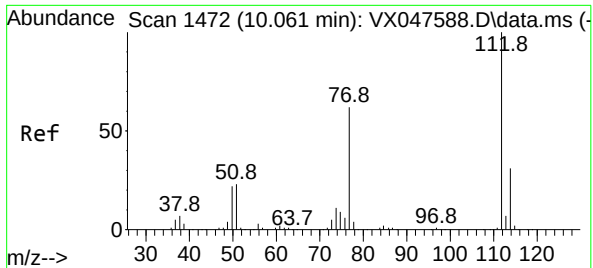
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#64
Tetrachloroethene
Concen: 57.942 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

Tgt Ion:164 Resp: 84307
Ion Ratio Lower Upper
164 100
166 126.8 100.2 150.2
129 98.1 81.8 122.6
131 92.7 78.6 118.0





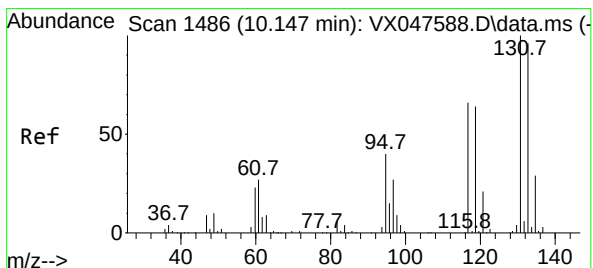
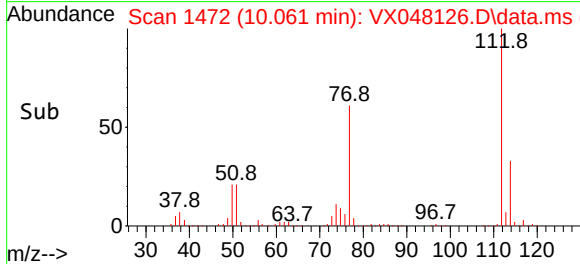
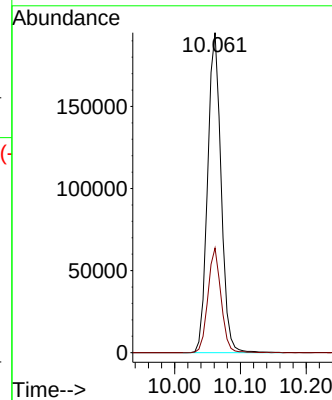
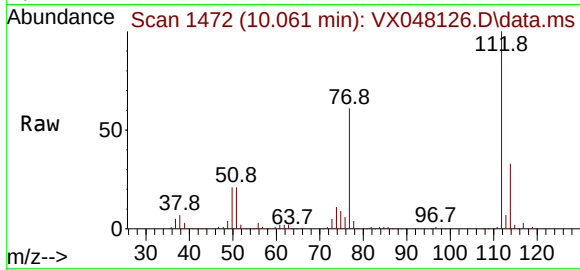
#65
Chlorobenzene
Concen: 54.737 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 27755
Ion Ratio Lower Upper
112 100
114 32.7 25.1 37.7

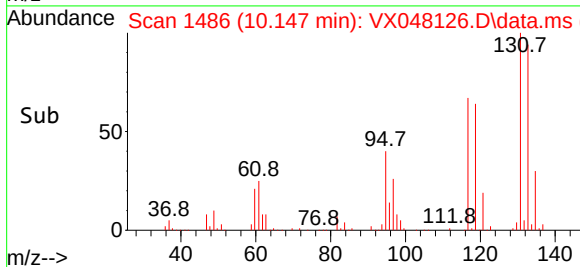
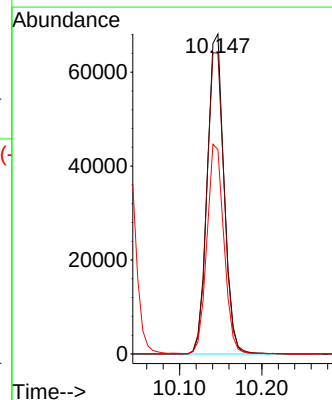
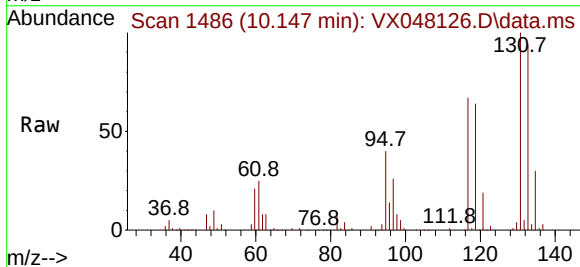
Manual Integrations
APPROVED

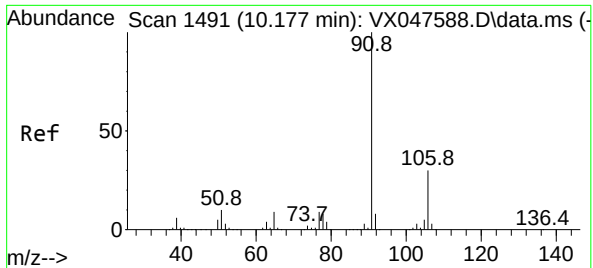
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 55.224 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

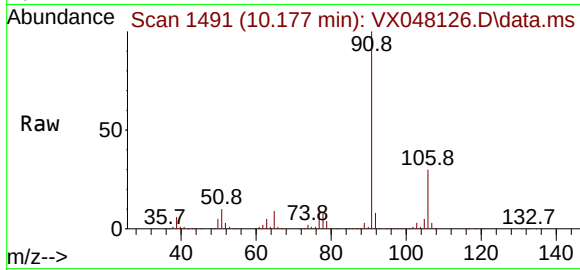
Tgt Ion:131 Resp: 96629
Ion Ratio Lower Upper
131 100
133 97.1 47.3 142.0
119 66.5 32.0 96.0





#67
Ethyl Benzene
Concen: 56.073 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. 0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

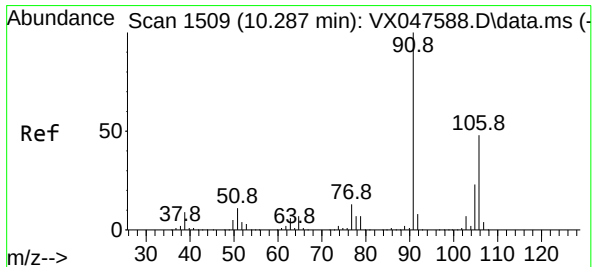
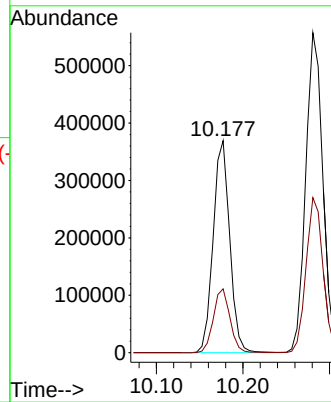
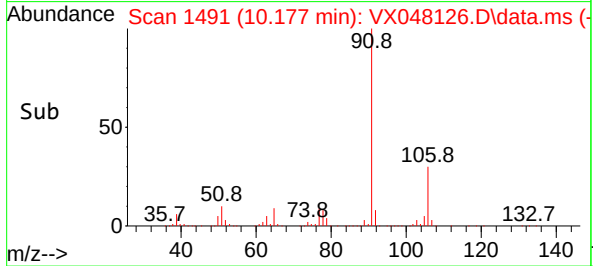
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



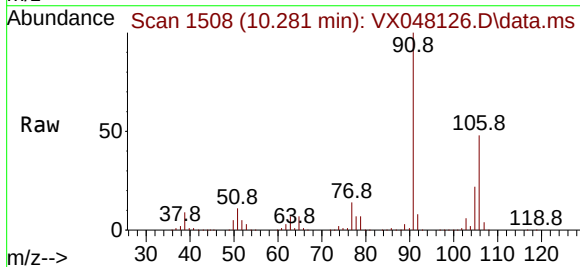
Tgt Ion: 91 Resp: 490585
Ion Ratio Lower Upper
91 100
106 30.1 24.3 36.5

Manual Integrations
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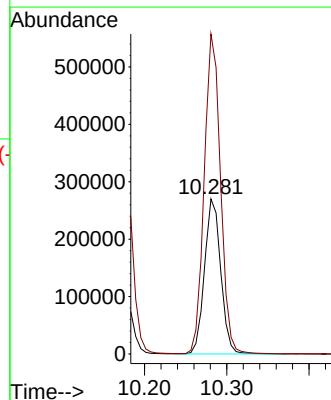
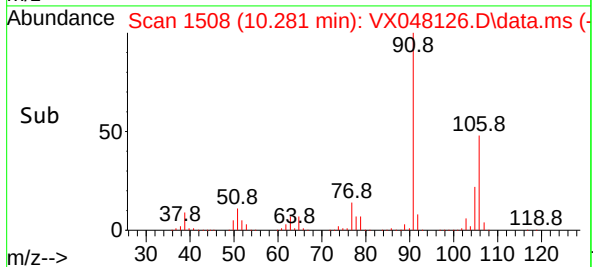
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

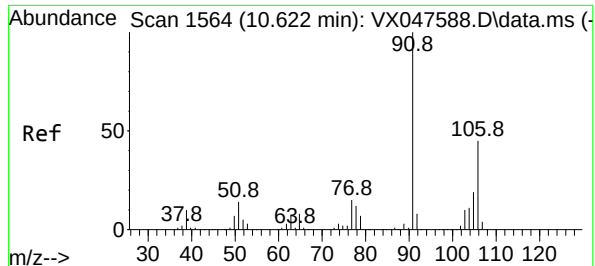


#68
m/p-Xylenes
Concen: 113.483 ug/l
RT: 10.281 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55



Tgt Ion:106 Resp: 369555
Ion Ratio Lower Upper
106 100
91 207.9 167.8 251.8





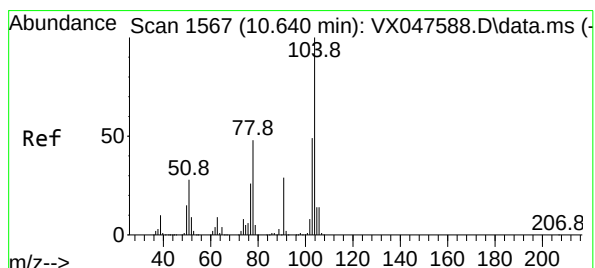
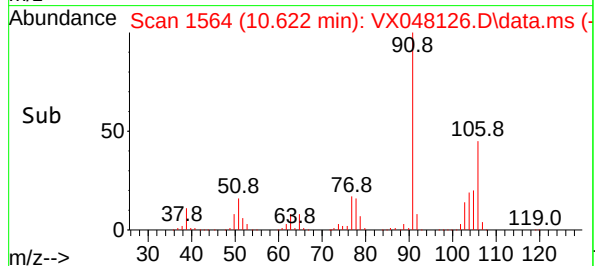
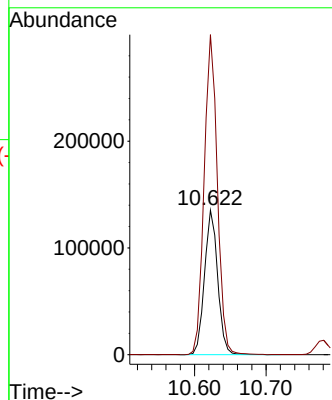
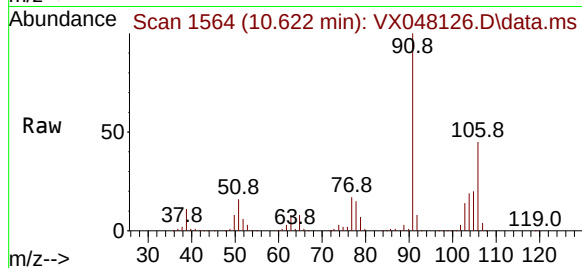
#69
o-Xylene
Concen: 55.023 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. 0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 173309
Ion Ratio Lower Upper
106 100
91 222.1 111.1 333.4

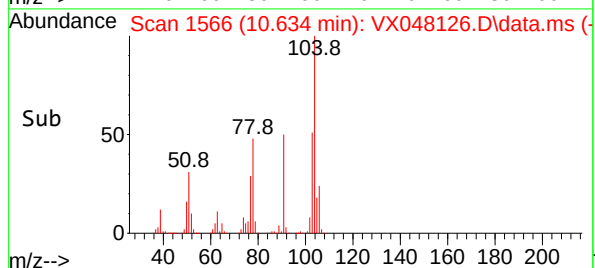
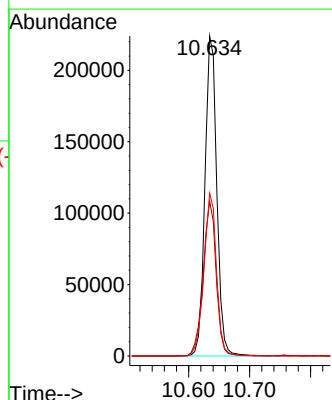
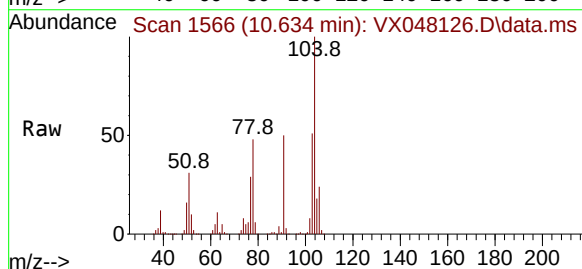
Manual Integrations
APPROVED

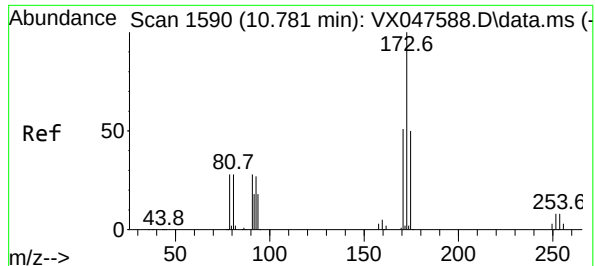
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#70
Styrene
Concen: 55.065 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

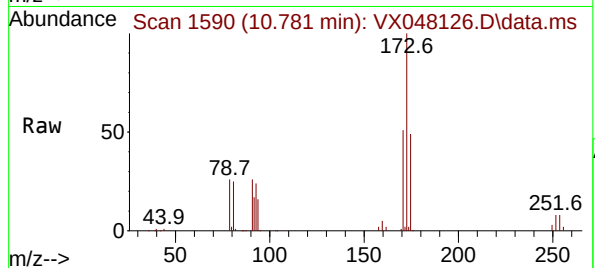
Tgt Ion:104 Resp: 303904
Ion Ratio Lower Upper
104 100
78 53.0 43.1 64.7
103 54.3 43.1 64.7





#71
Bromoform
Concen: 54.505 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

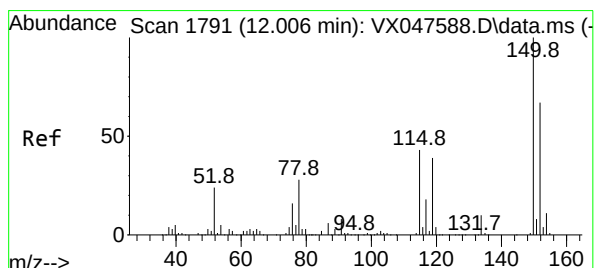
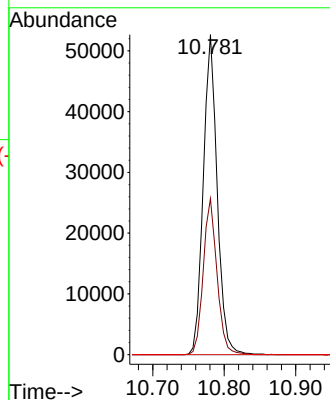
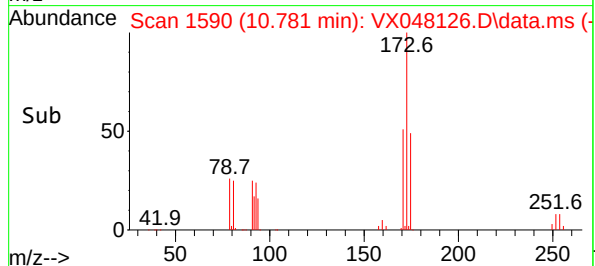
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



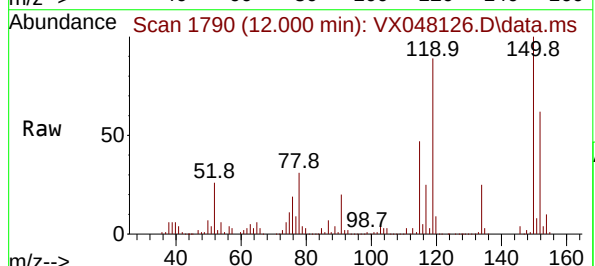
Tgt Ion:173 Resp: 71212
Ion Ratio Lower Upper
173 100
175 48.2 24.9 74.6
254 0.0 0.1 0.1

Manual Integrations
APPROVED

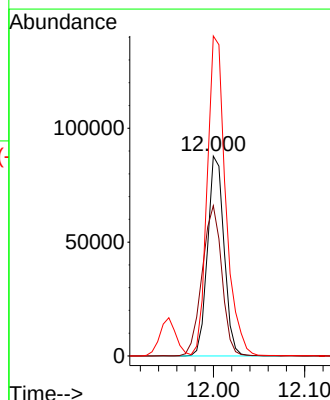
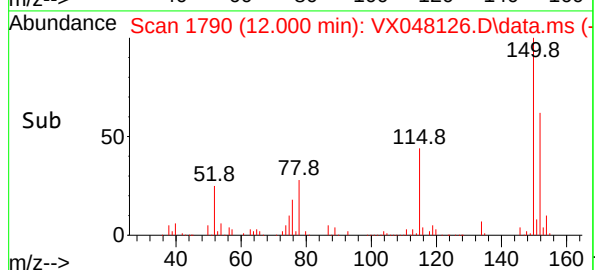
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

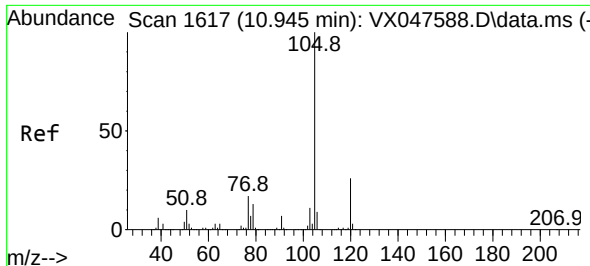


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.000 min Scan# 1790
Delta R.T. -0.006 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55



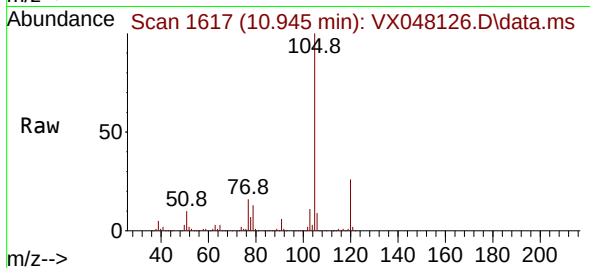
Tgt Ion:152 Resp: 109642
Ion Ratio Lower Upper
152 100
115 89.8 44.9 134.5
150 178.7 0.0 352.0





#73
Isopropylbenzene
Concen: 54.807 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

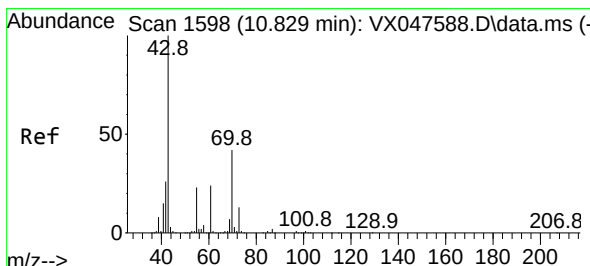
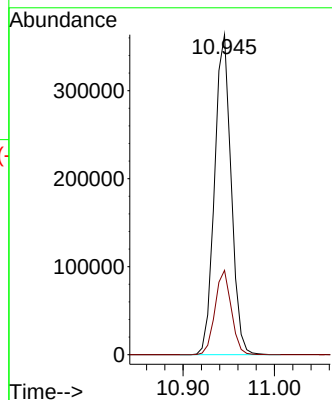
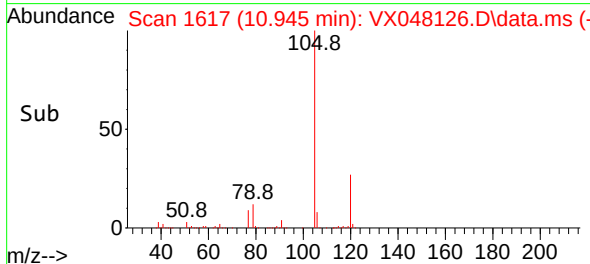
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:105 Resp: 456852
Ion Ratio Lower Upper
105 100
120 25.9 12.8 38.4

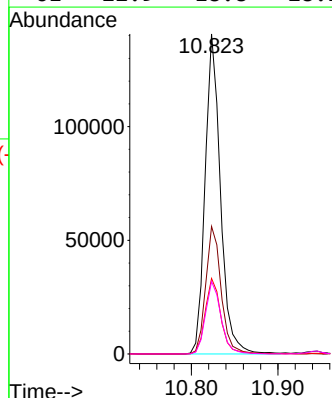
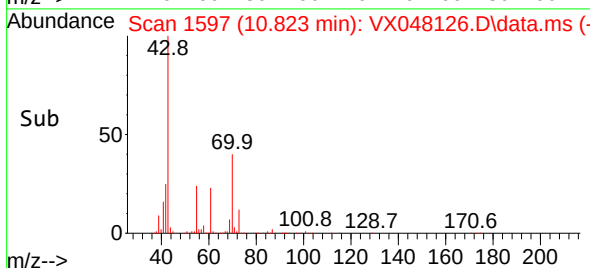
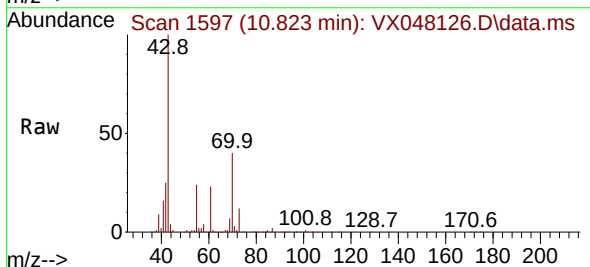
Manual Integrations
APPROVED

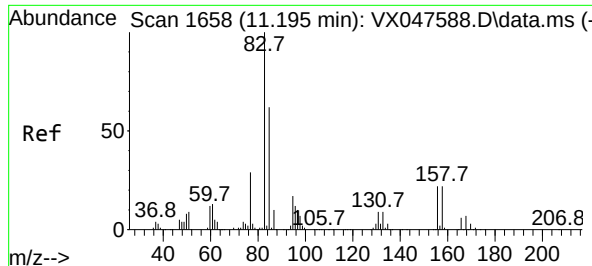
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#74
N-ethyl acetate
Concen: 45.597 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

Tgt Ion: 43 Resp: 173323
Ion Ratio Lower Upper
43 100
70 40.4 32.0 48.0
55 24.2 18.9 28.3
61 22.9 18.8 28.2





#75

1,1,2,2-Tetrachloroethane

Concen: 48.544 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 12242

Ion Ratio Lower Upper

83 100

131 10.1 5.0 14.9

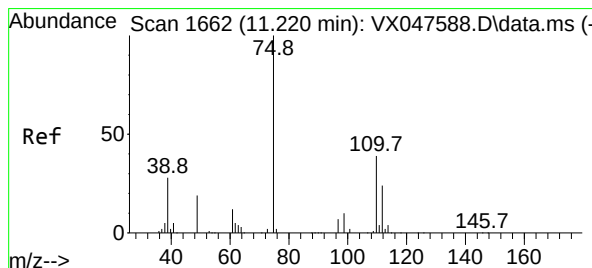
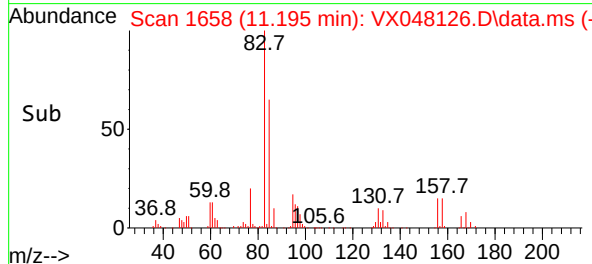
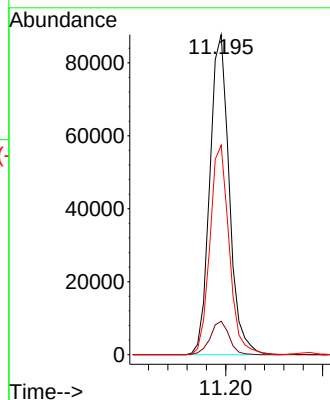
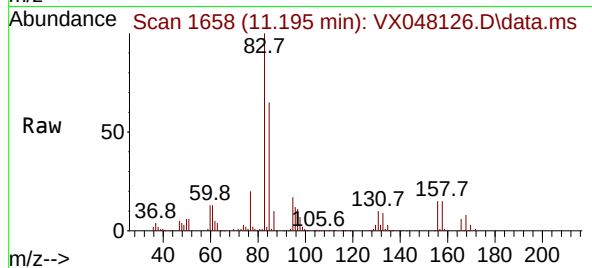
85 65.0 31.6 95.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#76

1,2,3-Trichloropropane

Concen: 45.055 ug/l m

RT: 11.220 min Scan# 1662

Delta R.T. 0.000 min

Lab File: VX048126.D

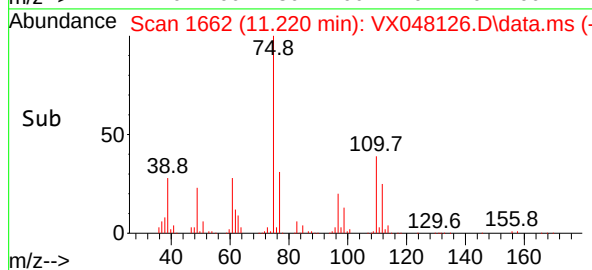
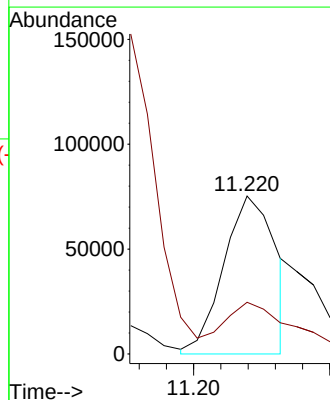
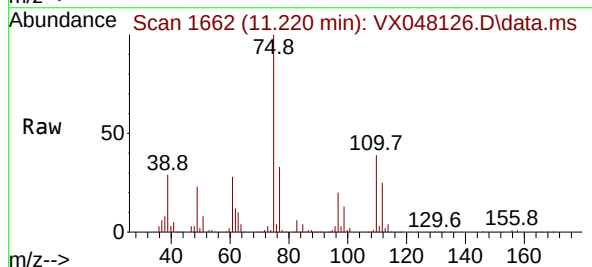
Acq: 13 Oct 2025 08:55

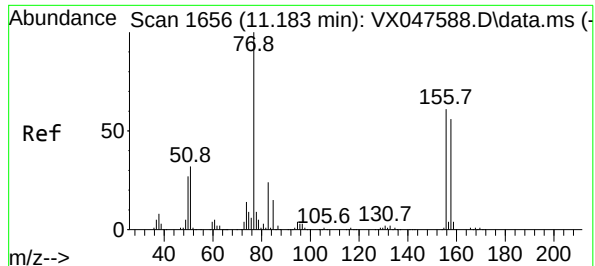
Tgt Ion: 75 Resp: 100017

Ion Ratio Lower Upper

75 100

77 44.3 18.8 56.4





#77

Bromobenzene

Concen: 52.152 ug/l

RT: 11.177 min Scan# 1656

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:156 Resp: 107070

Ion Ratio Lower Upper

156 100

77 176.0 89.7 269.1

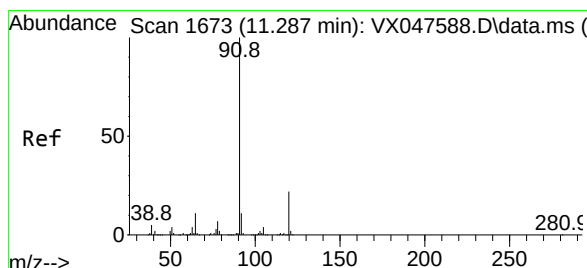
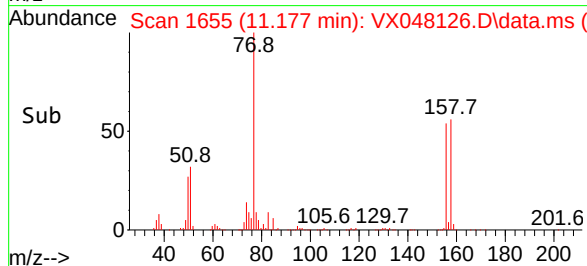
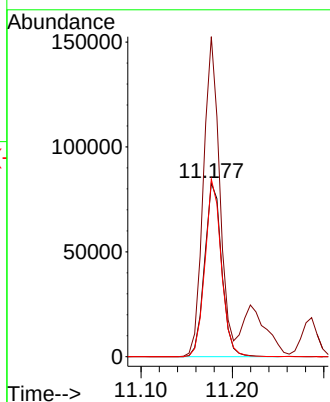
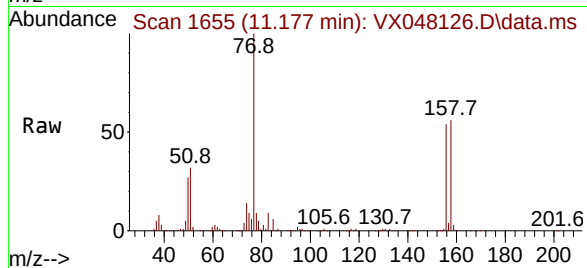
158 98.2 47.9 143.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#78

n-propylbenzene

Concen: 54.892 ug/l

RT: 11.287 min Scan# 1673

Delta R.T. 0.000 min

Lab File: VX048126.D

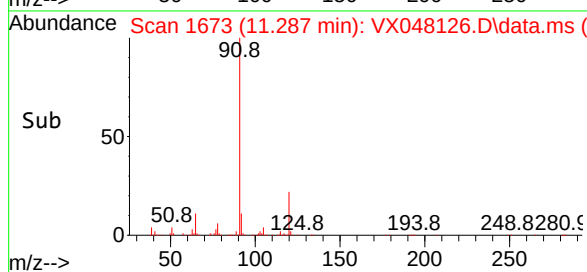
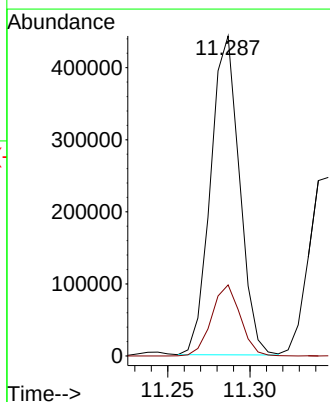
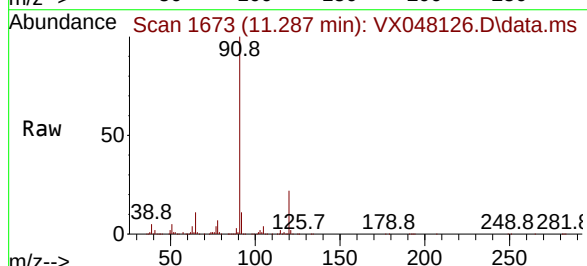
Acq: 13 Oct 2025 08:55

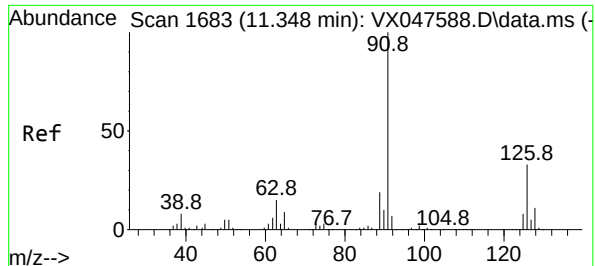
Tgt Ion: 91 Resp: 540893

Ion Ratio Lower Upper

91 100

120 22.2 11.1 33.1





#79

2-Chlorotoluene

Concen: 53.398 ug/l

RT: 11.348 min Scan# 1683

Delta R.T. -0.000 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 322270

Ion Ratio Lower Upper

91 100

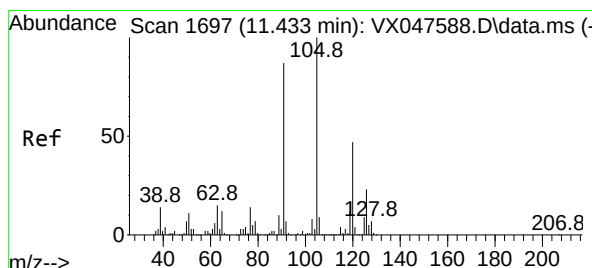
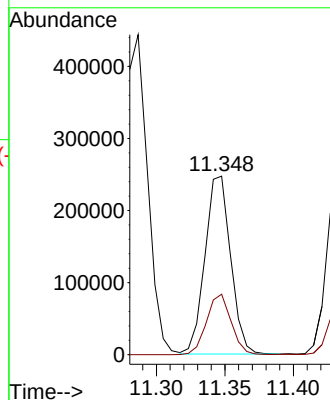
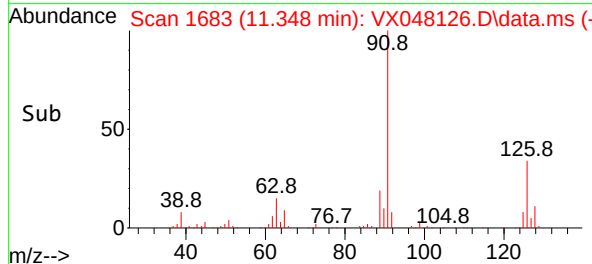
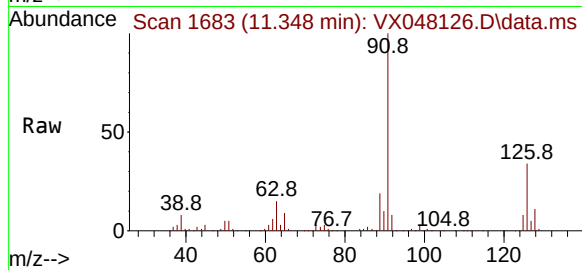
126 32.7 16.1 48.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#80

1,3,5-Trimethylbenzene

Concen: 54.031 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX048126.D

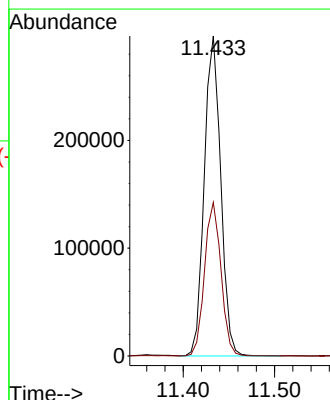
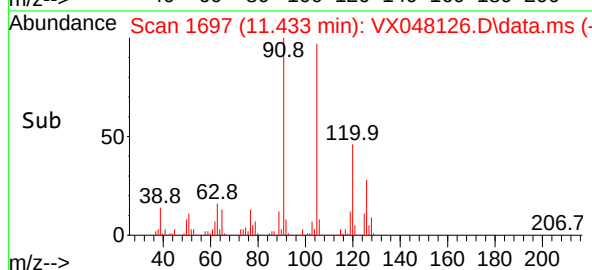
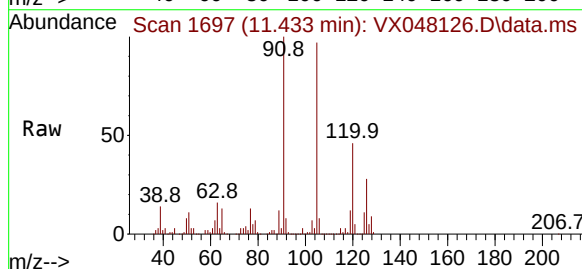
Acq: 13 Oct 2025 08:55

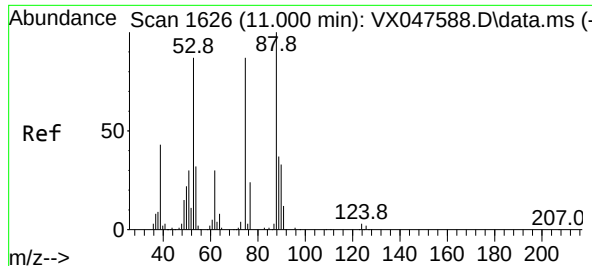
Tgt Ion:105 Resp: 370027

Ion Ratio Lower Upper

105 100

120 48.0 23.6 70.8





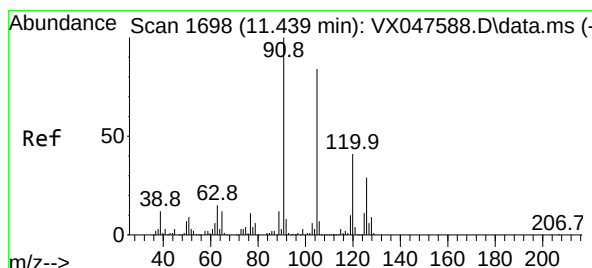
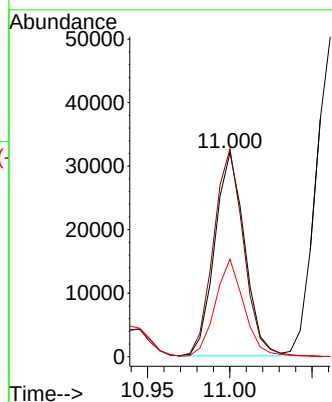
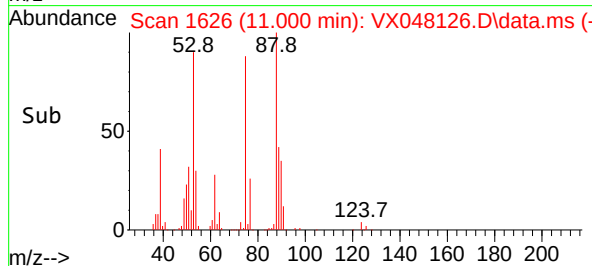
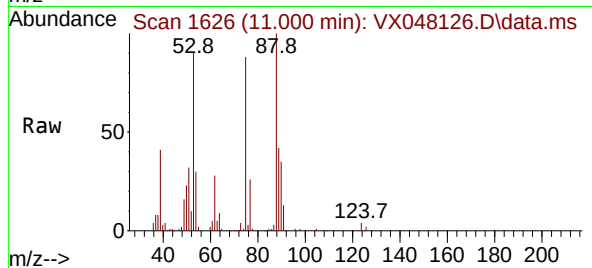
#81
trans-1,4-Dichloro-2-butene
Concen: 46.443 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 40429
Ion Ratio Lower Upper
75 100
53 103.9 83.4 125.2
89 46.5 36.3 54.5

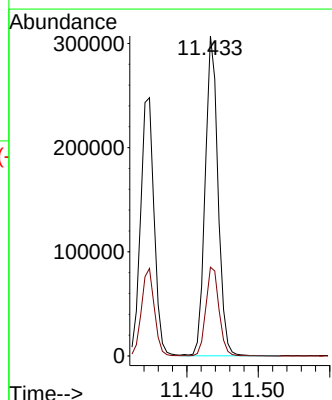
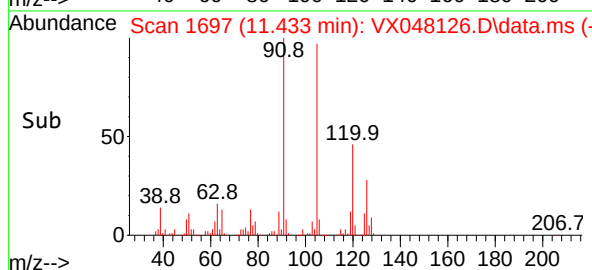
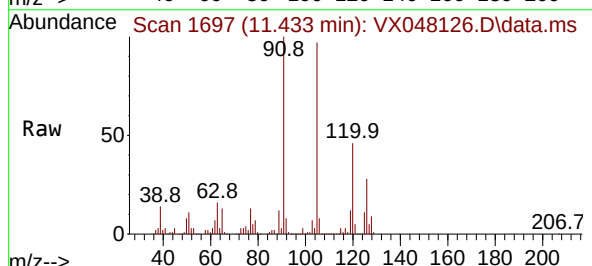
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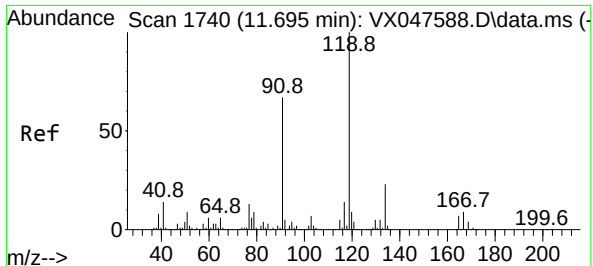
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#82
4-Chlorotoluene
Concen: 53.556 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

Tgt Ion: 91 Resp: 381746
Ion Ratio Lower Upper
91 100
126 28.7 14.2 42.6





#83

tert-Butylbenzene

Concen: 52.654 ug/l

RT: 11.695 min Scan# 1740

Delta R.T. -0.000 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 369130

Ion Ratio Lower Upper

119 100

91 59.8 29.6 88.8

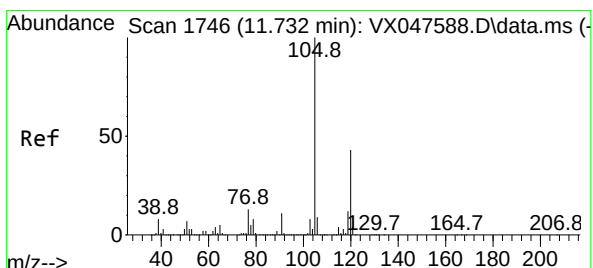
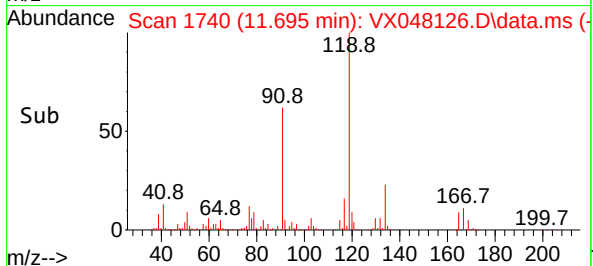
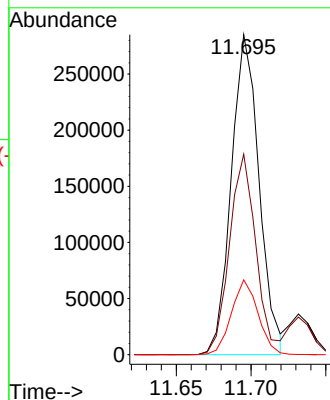
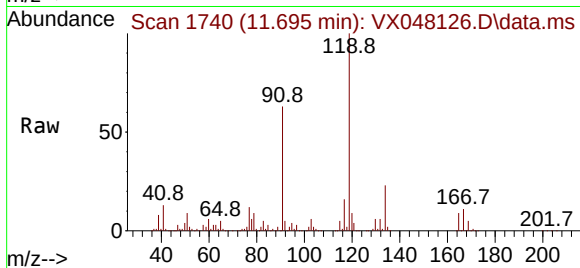
134 22.4 11.0 33.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#84

1,2,4-Trimethylbenzene

Concen: 53.862 ug/l

RT: 11.732 min Scan# 1746

Delta R.T. 0.000 min

Lab File: VX048126.D

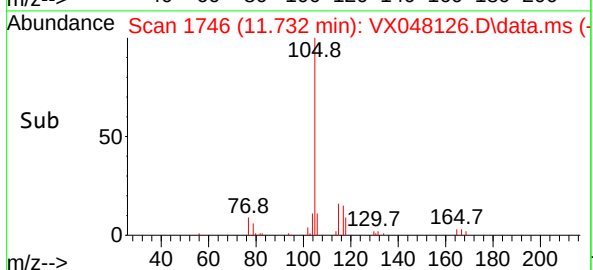
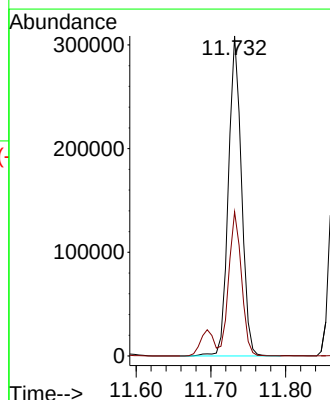
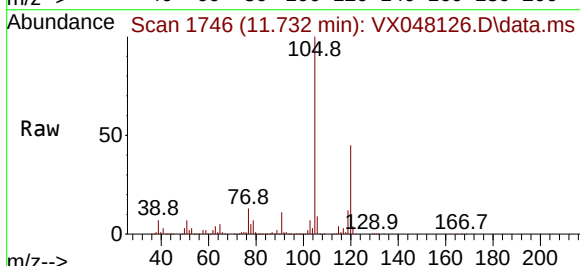
Acq: 13 Oct 2025 08:55

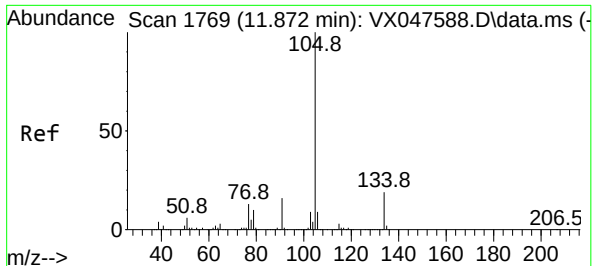
Tgt Ion:105 Resp: 373978

Ion Ratio Lower Upper

105 100

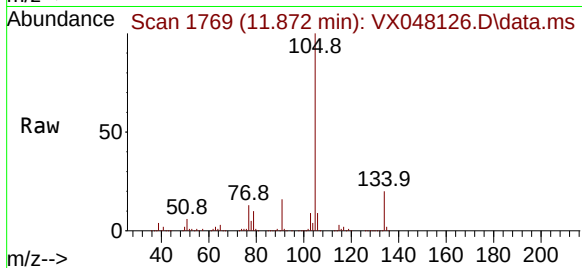
120 44.4 22.1 66.1





#85
sec-Butylbenzene
Concen: 54.048 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. 0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

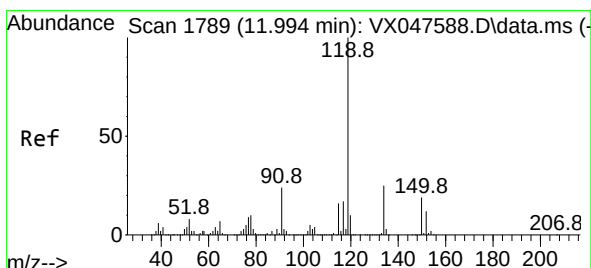
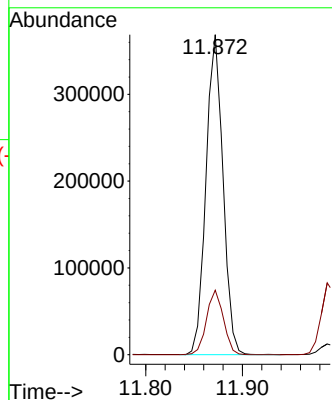
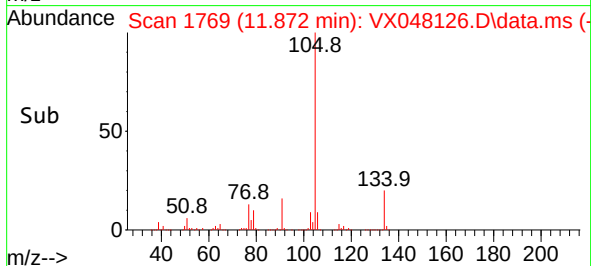
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



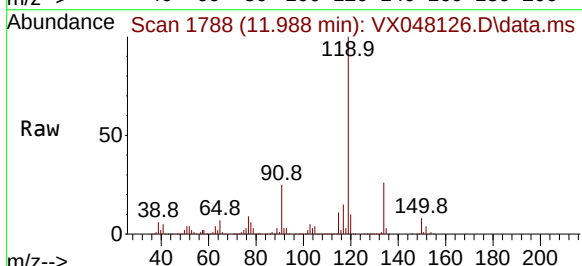
Tgt Ion:105 Resp: 450074
Ion Ratio Lower Upper
105 100
134 20.0 9.8 29.5

Manual Integrations
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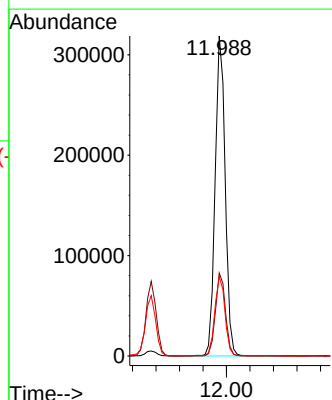
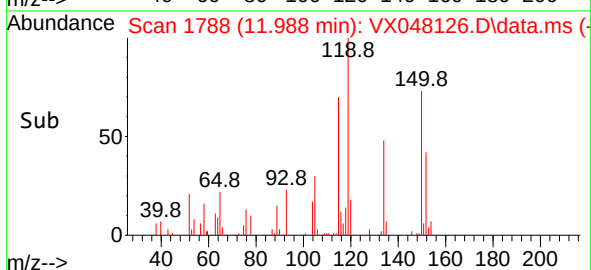
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

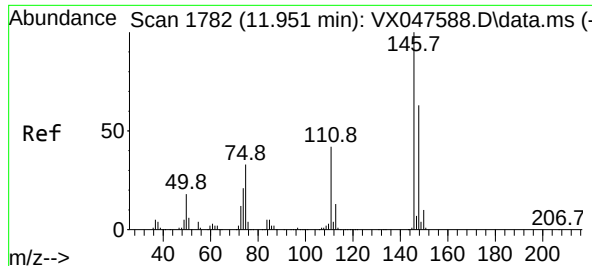


#86
p-Isopropyltoluene
Concen: 53.872 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55



Tgt Ion:119 Resp: 379791
Ion Ratio Lower Upper
119 100
134 25.7 12.6 37.8
91 25.0 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 51.849 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 19771

Ion Ratio Lower Upper

146 100

111 42.3 21.5 64.5

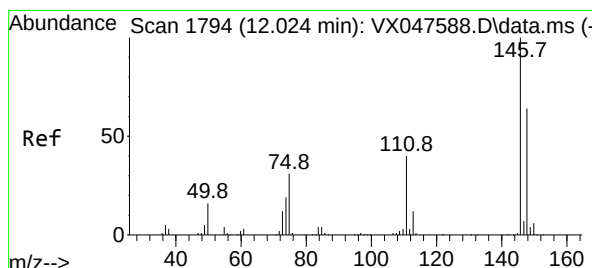
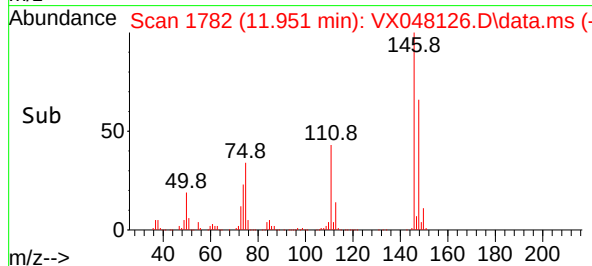
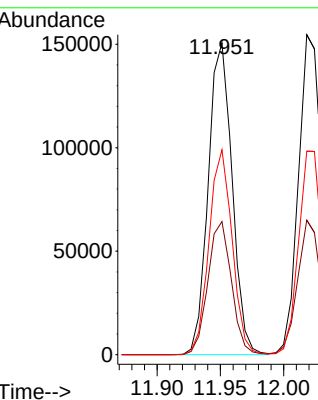
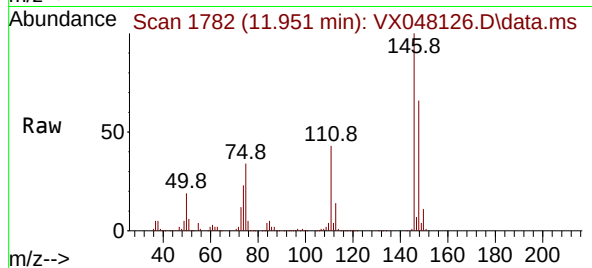
148 63.9 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#88

1,4-Dichlorobenzene

Concen: 51.725 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.006 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

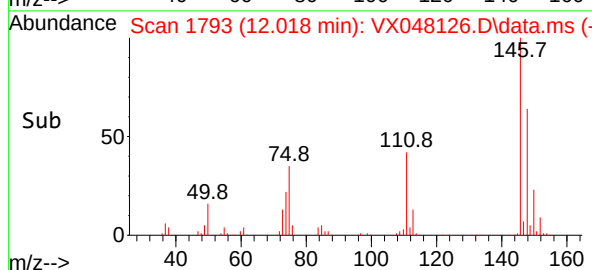
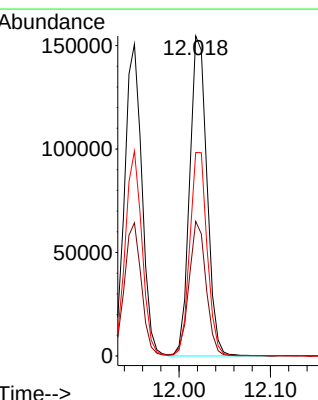
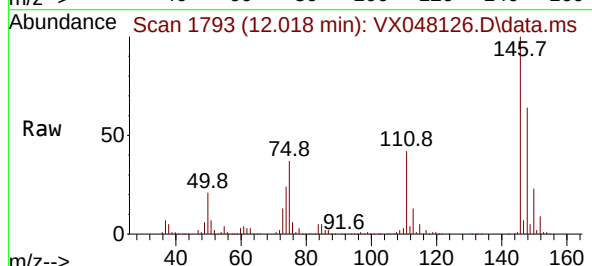
Tgt Ion:146 Resp: 202440

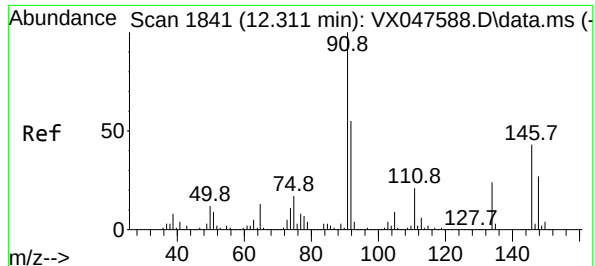
Ion Ratio Lower Upper

146 100

111 41.4 20.8 62.4

148 63.6 31.7 95.1





#89

n-Butylbenzene

Concen: 54.020 ug/l

RT: 12.311 min Scan# 1841

Delta R.T. 0.000 min

Lab File: VX048126.D

Acq: 13 Oct 2025 08:55

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 352384

Ion Ratio Lower Upper

91 100

92 54.2 27.6 82.7

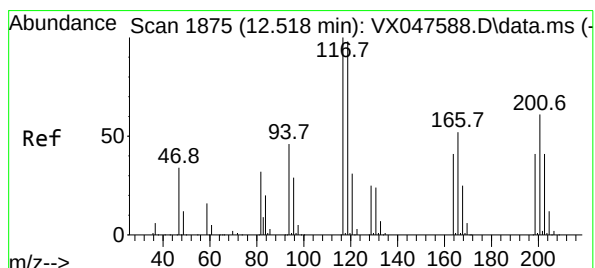
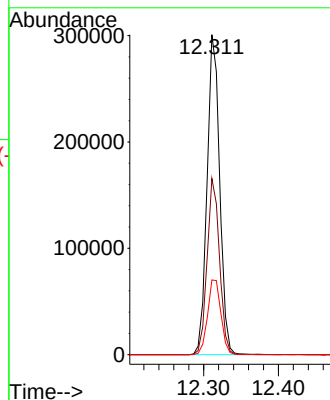
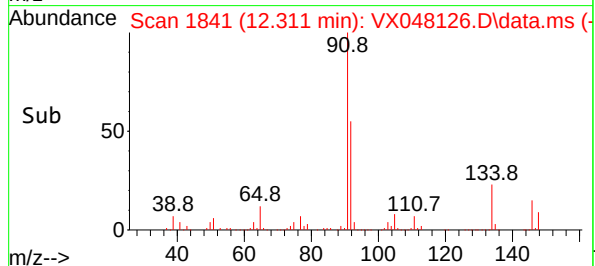
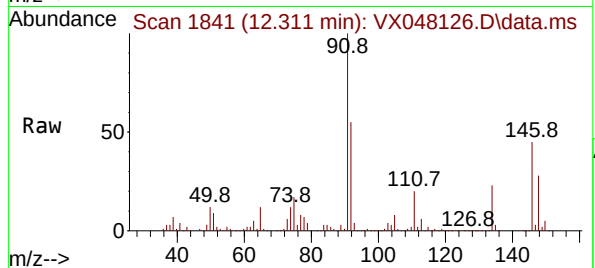
134 24.8 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#90

Hexachloroethane

Concen: 57.956 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VX048126.D

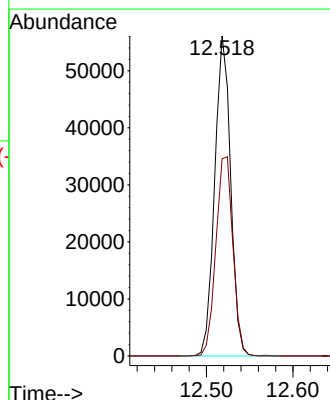
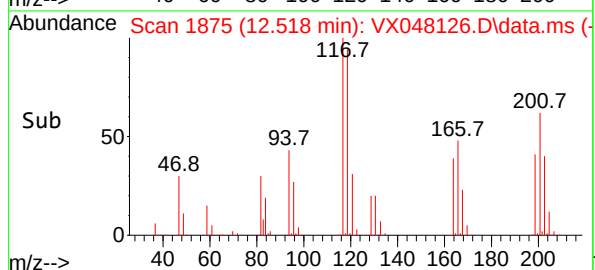
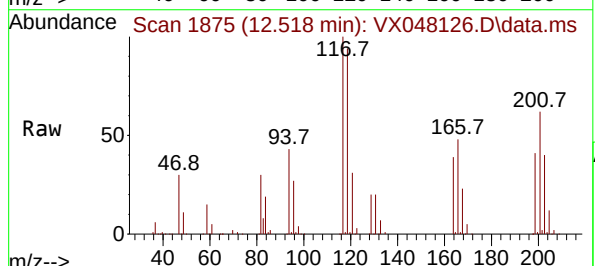
Acq: 13 Oct 2025 08:55

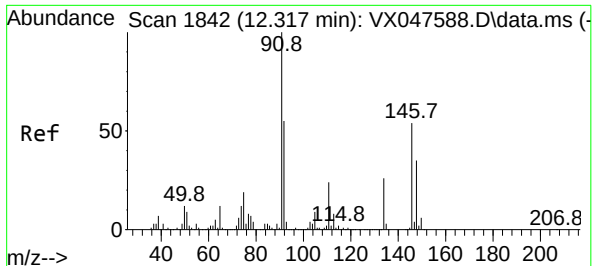
Tgt Ion:117 Resp: 71735

Ion Ratio Lower Upper

117 100

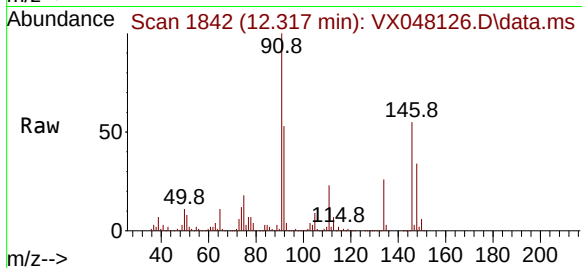
201 66.6 34.2 102.5





#91
1,2-Dichlorobenzene
Concen: 52.006 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

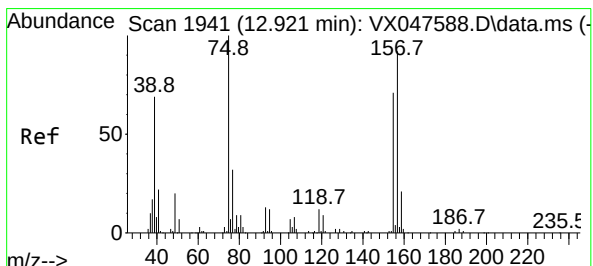
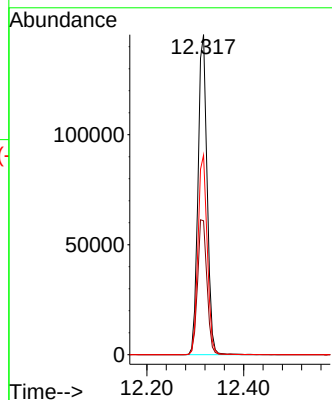
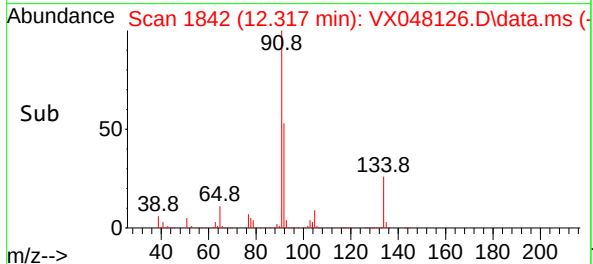
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 18893
Ion Ratio Lower Upper
146 100
111 43.6 22.2 66.6
148 63.4 31.8 95.4

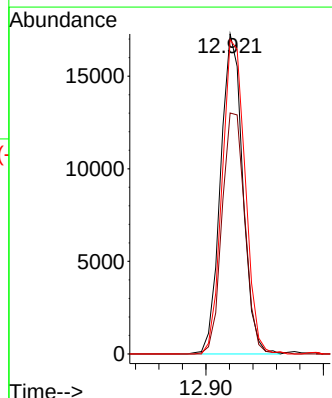
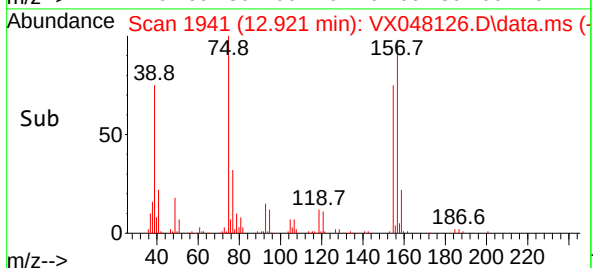
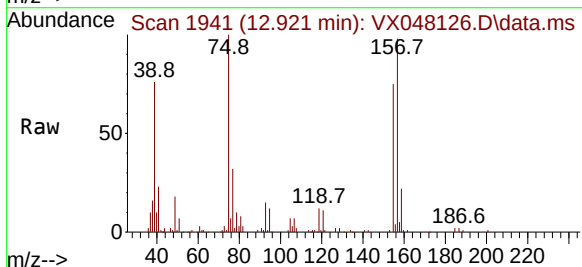
Manual Integrations
APPROVED

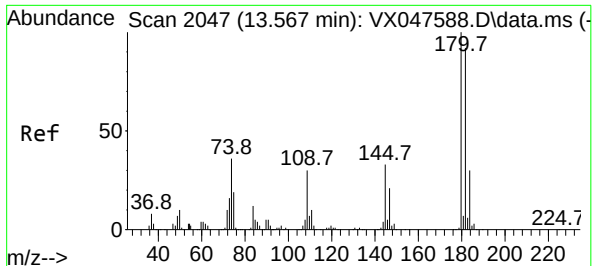
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 44.358 ug/l
RT: 12.921 min Scan# 1941
Delta R.T. 0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

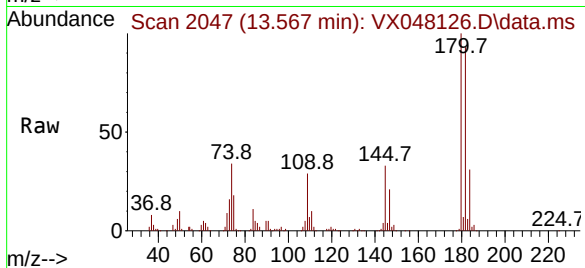
Tgt Ion: 75 Resp: 22649
Ion Ratio Lower Upper
75 100
155 77.7 37.7 113.1
157 101.7 49.8 149.4





#93
1,2,4-Trichlorobenzene
Concen: 48.936 ug/l
RT: 13.567 min Scan# 2047
Delta R.T. 0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

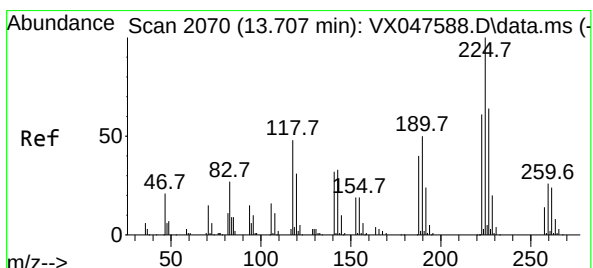
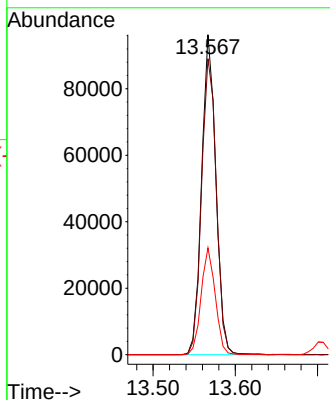
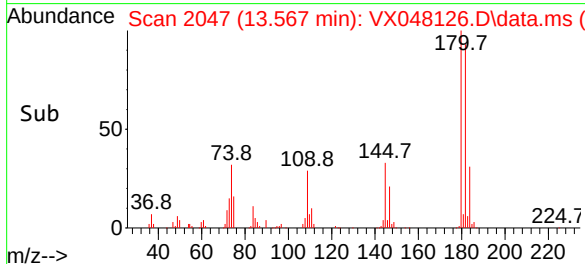
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



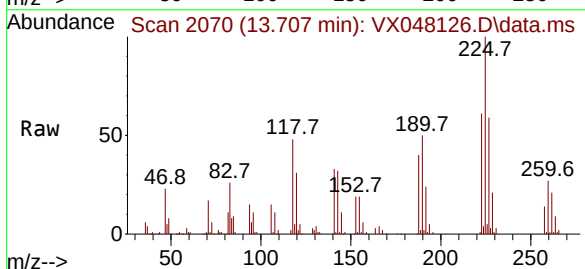
Tgt Ion:180 Resp: 11554
Ion Ratio Lower Upper
180 100
182 96.2 46.6 139.8
145 33.2 16.4 49.1

Manual Integrations
APPROVED

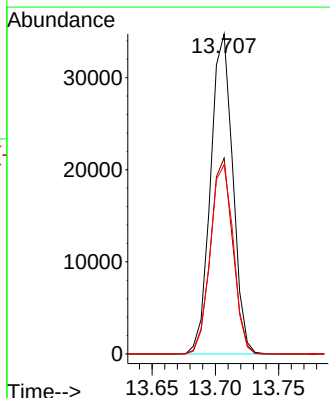
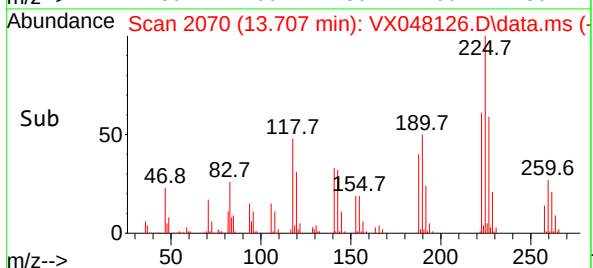
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

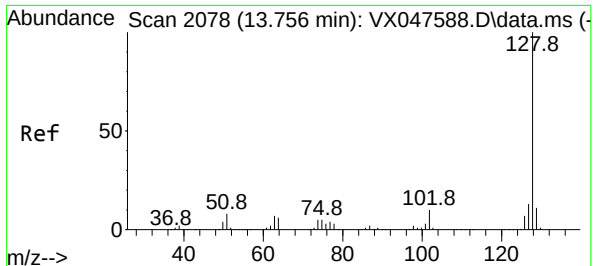


#94
Hexachlorobutadiene
Concen: 52.791 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55



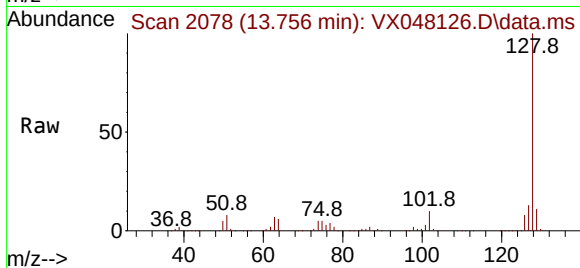
Tgt Ion:225 Resp: 42338
Ion Ratio Lower Upper
225 100
223 61.6 31.7 95.1
227 61.2 32.0 96.0





#95
Naphthalene
Concen: 45.067 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. 0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55

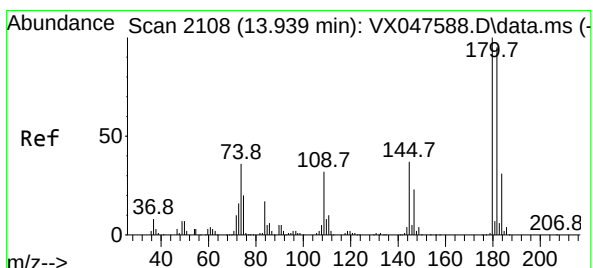
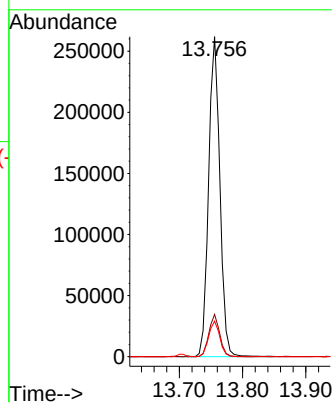
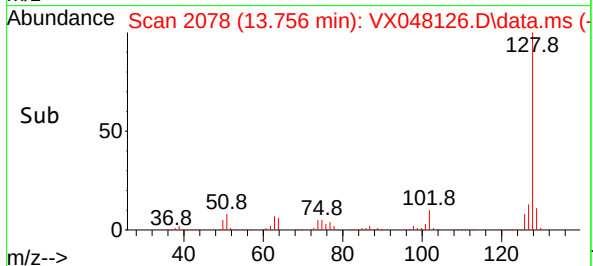
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



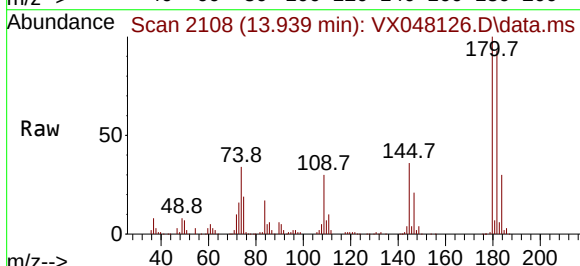
Tgt Ion:128 Resp: 32402
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 11.0 8.8 13.2

Manual Integrations
APPROVED

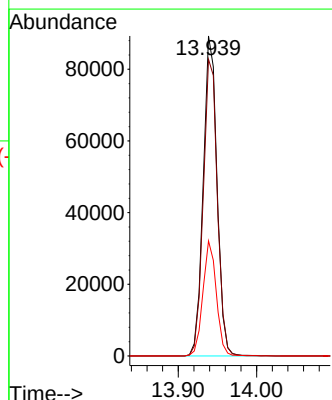
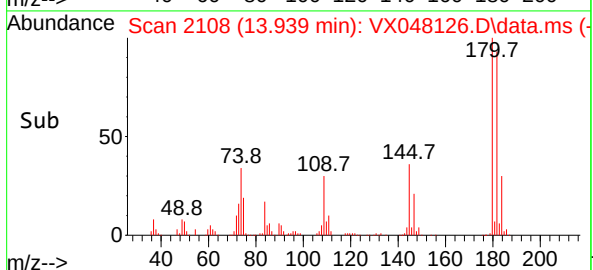
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#96
1,2,3-Trichlorobenzene
Concen: 49.668 ug/l
RT: 13.939 min Scan# 2108
Delta R.T. -0.000 min
Lab File: VX048126.D
Acq: 13 Oct 2025 08:55



Tgt Ion:180 Resp: 109087
Ion Ratio Lower Upper
180 100
182 94.6 47.6 142.8
145 35.1 17.9 53.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101325\
Data File : VX048126.D
Acq On : 13 Oct 2025 08:55
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 14 01:48:42 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	89	-0.02
2 T	Dichlorodifluoromethane	0.518	0.671	-29.5#	119	0.00
3 P	Chloromethane	0.680	0.785	-15.4	106	0.00
4 C	Vinyl Chloride	0.666	0.852	-27.9#	115	0.00
5 T	Bromomethane	0.422	0.549	-30.1#	115	0.00
6 T	Chloroethane	0.445	0.526	-18.2	106	0.00
7 T	Trichlorofluoromethane	0.989	1.276	-29.0#	114	0.00
8 T	Diethyl Ether	0.405	0.433	-6.9	94	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.578	0.719	-24.4	110	0.00
10 T	Methyl Iodide	0.902	0.838	7.1	82	0.00
11 T	Tert butyl alcohol	0.089	0.074	16.9	74	0.00
12 CM	1,1-Dichloroethene	0.594	0.704	-18.5#	104	0.00
13 T	Acrolein	0.082	0.089	-8.5	97	0.00
14 T	Allyl chloride	1.226	1.273	-3.8	94	0.00
15 T	Acrylonitrile	0.328	0.323	1.5	83	-0.01
16 T	Acetone	0.346	0.388	-12.1	109	0.00
17 T	Carbon Disulfide	1.626	2.125	-30.7#	121	0.00
18 T	Methyl Acetate	0.770	0.662	14.0	67	0.00
19 T	Methyl tert-butyl Ether	2.169	2.184	-0.7	86	0.00
20 T	Methylene Chloride	0.732	0.792	-8.2	97	0.00
21 T	trans-1,2-Dichloroethene	0.640	0.737	-15.2	101	0.00
22 T	Diisopropyl ether	2.376	2.511	-5.7	90	-0.01
23 T	Vinyl Acetate	1.901	1.977	-4.0	88	0.00
24 P	1,1-Dichloroethane	1.263	1.374	-8.8	94	0.00
25 T	2-Butanone	0.432	0.420	2.8	85	-0.01
26 T	2,2-Dichloropropane	1.050	1.146	-9.1	95	0.00
27 T	cis-1,2-Dichloroethene	0.783	0.834	-6.5	92	-0.01
28 T	Bromochloromethane	0.551	0.541	1.8	84	-0.01
29 T	Tetrahydrofuran	0.260	0.228	12.3	74	0.00
30 C	Chloroform	1.276	1.362	-6.7#	92	-0.01
31 T	Cyclohexane	1.052	1.154	-9.7	100	0.00
32 T	1,1,1-Trichloroethane	1.082	1.202	-11.1	95	-0.01
33 S	1,2-Dichloroethane-d4	0.796	0.792	0.5	91	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	84	0.00
35 S	Dibromofluoromethane	0.335	0.370	-10.4	95	-0.01
36 T	1,1-Dichloropropene	0.490	0.553	-12.9	96	-0.01
37 T	Ethyl Acetate	0.525	0.489	6.9	78	-0.02
38 T	Carbon Tetrachloride	0.532	0.619	-16.4	97	-0.01
39 T	Methylcyclohexane	0.556	0.656	-18.0	98	0.00
40 TM	Benzene	1.488	1.660	-11.6	92	-0.01
41 T	Methacrylonitrile	0.271	0.278	-2.6	82	-0.01
42 TM	1,2-Dichloroethane	0.566	0.595	-5.1	86	-0.01
43 T	Isopropyl Acetate	0.860	0.795	7.6	75	-0.01
44 TM	Trichloroethene	0.360	0.401	-11.4	91	0.00
45 C	1,2-Dichloropropane	0.381	0.408	-7.1#	87	0.00
46 T	Dibromomethane	0.277	0.297	-7.2	87	0.00
47 T	Bromodichloromethane	0.572	0.627	-9.6	87	0.00
48 T	Methyl methacrylate	0.429	0.402	6.3	76	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101325\
Data File : VX048126.D
Acq On : 13 Oct 2025 08:55
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 14 01:48:42 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	82	0.00
50 S	Toluene-d8	1.160	1.233	-6.3	91	0.00
51 T	4-Methyl-2-Pentanone	0.477	0.439	8.0	73	-0.01
52 CM	Toluene	0.917	1.001	-9.2#	90	0.00
53 T	t-1,3-Dichloropropene	0.584	0.620	-6.2	85	0.00
54 T	cis-1,3-Dichloropropene	0.624	0.679	-8.8	88	0.00
55 T	1,1,2-Trichloroethane	0.354	0.367	-3.7	84	0.00
56 T	Ethyl methacrylate	0.555	0.537	3.2	76	0.00
57 T	1,3-Dichloropropane	0.607	0.639	-5.3	85	0.00
58 T	2-Chloroethyl Vinyl ether	0.227	0.259	-14.1	80	0.00
59 T	2-Hexanone	0.343	0.324	5.5	76	0.00
60 T	Dibromochloromethane	0.407	0.454	-11.5	88	0.00
61 T	1,2-Dibromoethane	0.360	0.377	-4.7	84	0.00
62 S	4-Bromofluorobenzene	0.440	0.456	-3.6	90	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00
64 T	Tetrachloroethene	0.326	0.378	-16.0	96	0.00
65 PM	Chlorobenzene	1.136	1.244	-9.5	87	0.00
66 T	1,1,1,2-Tetrachloroethane	0.392	0.433	-10.5	86	0.00
67 C	Ethyl Benzene	1.960	2.198	-12.1#	89	0.00
68 T	m/p-Xylenes	0.729	0.828	-13.6	89	0.00
69 T	o-Xylene	0.706	0.776	-9.9	86	0.00
70 T	Styrene	1.236	1.362	-10.2	87	0.00
71 P	Bromoform	0.293	0.319	-8.9	84	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	86	0.00
73 T	Isopropylbenzene	3.801	4.167	-9.6	88	0.00
74 T	N-amyl acetate	1.733	1.581	8.8	73	0.00
75 P	1,1,2,2-Tetrachloroethane	1.150	1.117	2.9	78	0.00
76 T	1,2,3-Trichloropropane	1.012	0.912	9.9	69	0.00
77 T	Bromobenzene	0.936	0.977	-4.4	85	0.00
78 T	n-propylbenzene	4.494	4.933	-9.8	88	0.00
79 T	2-Chlorotoluene	2.752	2.939	-6.8	87	0.00
80 T	1,3,5-Trimethylbenzene	3.123	3.375	-8.1	87	0.00
81 T	trans-1,4-Dichloro-2-butene	0.397	0.369	7.1	76	0.00
82 T	4-Chlorotoluene	3.251	3.482	-7.1	87	0.00
83 T	tert-Butylbenzene	3.197	3.367	-5.3	86	0.00
84 T	1,2,4-Trimethylbenzene	3.166	3.411	-7.7	88	0.00
85 T	sec-Butylbenzene	3.797	4.105	-8.1	87	0.00
86 T	p-Isopropyltoluene	3.215	3.464	-7.7	87	0.00
87 T	1,3-Dichlorobenzene	1.739	1.803	-3.7	85	0.00
88 T	1,4-Dichlorobenzene	1.785	1.846	-3.4	87	0.00
89 T	n-Butylbenzene	2.975	3.214	-8.0	88	0.00
90 T	Hexachloroethane	0.564	0.654	-16.0	95	0.00
91 T	1,2-Dichlorobenzene	1.657	1.723	-4.0	85	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.233	0.207	11.2	70	0.00
93 T	1,2,4-Trichlorobenzene	1.077	1.054	2.1	78	0.00
94 T	Hexachlorobutadiene	0.366	0.386	-5.5	86	0.00
95 T	Naphthalene	3.279	2.955	9.9	72	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101325\
Data File : VX048126.D
Acq On : 13 Oct 2025 08:55
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 14 01:48:42 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	0.995	0.7	78	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101325\
Data File : VX048126.D
Acq On : 13 Oct 2025 08:55
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 14 01:48:42 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	89	-0.02
2 T	Dichlorodifluoromethane	50.000	64.782	-29.6#	119	0.00
3 P	Chloromethane	50.000	57.677	-15.4	106	0.00
4 C	Vinyl Chloride	50.000	63.944	-27.9#	115	0.00
5 T	Bromomethane	50.000	65.021	-30.0#	115	0.00
6 T	Chloroethane	50.000	59.077	-18.2	106	0.00
7 T	Trichlorofluoromethane	50.000	64.492	-29.0#	114	0.00
8 T	Diethyl Ether	50.000	53.511	-7.0	94	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	62.189	-24.4	110	0.00
10 T	Methyl Iodide	50.000	46.479	7.0	82	0.00
11 T	Tert butyl alcohol	250.000	208.211	16.7	74	0.00
12 CM	1,1-Dichloroethene	50.000	59.251	-18.5#	104	0.00
13 T	Acrolein	250.000	272.102	-8.8	97	0.00
14 T	Allyl chloride	50.000	51.934	-3.9	94	0.00
15 T	Acrylonitrile	250.000	245.639	1.7	83	-0.01
16 T	Acetone	250.000	280.657	-12.3	109	0.00
17 T	Carbon Disulfide	50.000	65.341	-30.7#	121	0.00
18 T	Methyl Acetate	50.000	42.977	14.0	67	0.00
19 T	Methyl tert-butyl Ether	50.000	50.353	-0.7	86	0.00
20 T	Methylene Chloride	50.000	54.092	-8.2	97	0.00
21 T	trans-1,2-Dichloroethene	50.000	57.586	-15.2	101	0.00
22 T	Diisopropyl ether	50.000	52.853	-5.7	90	-0.01
23 T	Vinyl Acetate	250.000	259.984	-4.0	88	0.00
24 P	1,1-Dichloroethane	50.000	54.414	-8.8	94	0.00
25 T	2-Butanone	250.000	243.044	2.8	85	-0.01
26 T	2,2-Dichloropropane	50.000	54.594	-9.2	95	0.00
27 T	cis-1,2-Dichloroethene	50.000	53.263	-6.5	92	-0.01
28 T	Bromochloromethane	50.000	49.106	1.8	84	-0.01
29 T	Tetrahydrofuran	250.000	219.136	12.3	74	0.00
30 C	Chloroform	50.000	53.388	-6.8#	92	-0.01
31 T	Cyclohexane	50.000	54.883	-9.8	100	0.00
32 T	1,1,1-Trichloroethane	50.000	55.516	-11.0	95	-0.01
33 S	1,2-Dichloroethane-d4	50.000	49.784	0.4	91	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	84	0.00
35 S	Dibromofluoromethane	50.000	55.205	-10.4	95	-0.01
36 T	1,1-Dichloropropene	50.000	56.468	-12.9	96	-0.01
37 T	Ethyl Acetate	50.000	46.586	6.8	78	-0.02
38 T	Carbon Tetrachloride	50.000	58.100	-16.2	97	-0.01
39 T	Methylcyclohexane	50.000	59.013	-18.0	98	0.00
40 TM	Benzene	50.000	55.778	-11.6	92	-0.01
41 T	Methacrylonitrile	50.000	51.306	-2.6	82	-0.01
42 TM	1,2-Dichloroethane	50.000	52.496	-5.0	86	-0.01
43 T	Isopropyl Acetate	50.000	46.211	7.6	75	-0.01
44 TM	Trichloroethene	50.000	55.775	-11.5	91	0.00
45 C	1,2-Dichloropropane	50.000	53.550	-7.1#	87	0.00
46 T	Dibromomethane	50.000	53.485	-7.0	87	0.00
47 T	Bromodichloromethane	50.000	54.741	-9.5	87	0.00
48 T	Methyl methacrylate	50.000	46.937	6.1	76	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101325\
Data File : VX048126.D
Acq On : 13 Oct 2025 08:55
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 14 01:48:42 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	1072.749	-7.3	82	0.00
50 S	Toluene-d8	50.000	53.153	-6.3	91	0.00
51 T	4-Methyl-2-Pentanone	250.000	230.231	7.9	73	-0.01
52 CM	Toluene	50.000	54.605	-9.2#	90	0.00
53 T	t-1,3-Dichloropropene	50.000	53.099	-6.2	85	0.00
54 T	cis-1,3-Dichloropropene	50.000	54.388	-8.8	88	0.00
55 T	1,1,2-Trichloroethane	50.000	51.931	-3.9	84	0.00
56 T	Ethyl methacrylate	50.000	48.333	3.3	76	0.00
57 T	1,3-Dichloropropane	50.000	52.630	-5.3	85	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	244.822	2.1	80	0.00
59 T	2-Hexanone	250.000	236.180	5.5	76	0.00
60 T	Dibromochloromethane	50.000	55.685	-11.4	88	0.00
61 T	1,2-Dibromoethane	50.000	52.384	-4.8	84	0.00
62 S	4-Bromofluorobenzene	50.000	51.831	-3.7	90	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	83	0.00
64 T	Tetrachloroethene	50.000	57.942	-15.9	96	0.00
65 PM	Chlorobenzene	50.000	54.737	-9.5	87	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	55.224	-10.4	86	0.00
67 C	Ethyl Benzene	50.000	56.073	-12.1#	89	0.00
68 T	m/p-Xylenes	100.000	113.483	-13.5	89	0.00
69 T	o-Xylene	50.000	55.023	-10.0	86	0.00
70 T	Styrene	50.000	55.065	-10.1	87	0.00
71 P	Bromoform	50.000	54.505	-9.0	84	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	86	0.00
73 T	Isopropylbenzene	50.000	54.807	-9.6	88	0.00
74 T	N-amyl acetate	50.000	45.597	8.8	73	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.544	2.9	78	0.00
76 T	1,2,3-Trichloropropane	50.000	45.055	9.9	69	0.00
77 T	Bromobenzene	50.000	52.152	-4.3	85	0.00
78 T	n-propylbenzene	50.000	54.892	-9.8	88	0.00
79 T	2-Chlorotoluene	50.000	53.398	-6.8	87	0.00
80 T	1,3,5-Trimethylbenzene	50.000	54.031	-8.1	87	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	46.443	7.1	76	0.00
82 T	4-Chlorotoluene	50.000	53.556	-7.1	87	0.00
83 T	tert-Butylbenzene	50.000	52.654	-5.3	86	0.00
84 T	1,2,4-Trimethylbenzene	50.000	53.862	-7.7	88	0.00
85 T	sec-Butylbenzene	50.000	54.048	-8.1	87	0.00
86 T	p-Isopropyltoluene	50.000	53.872	-7.7	87	0.00
87 T	1,3-Dichlorobenzene	50.000	51.849	-3.7	85	0.00
88 T	1,4-Dichlorobenzene	50.000	51.725	-3.5	87	0.00
89 T	n-Butylbenzene	50.000	54.020	-8.0	88	0.00
90 T	Hexachloroethane	50.000	57.956	-15.9	95	0.00
91 T	1,2-Dichlorobenzene	50.000	52.006	-4.0	85	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	44.358	11.3	70	0.00
93 T	1,2,4-Trichlorobenzene	50.000	48.936	2.1	78	0.00
94 T	Hexachlorobutadiene	50.000	52.791	-5.6	86	0.00
95 T	Naphthalene	50.000	45.067	9.9	72	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101325\
Data File : VX048126.D
Acq On : 13 Oct 2025 08:55
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 14 01:48:42 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	49.668	0.7	78	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



QC SAMPLE DATA

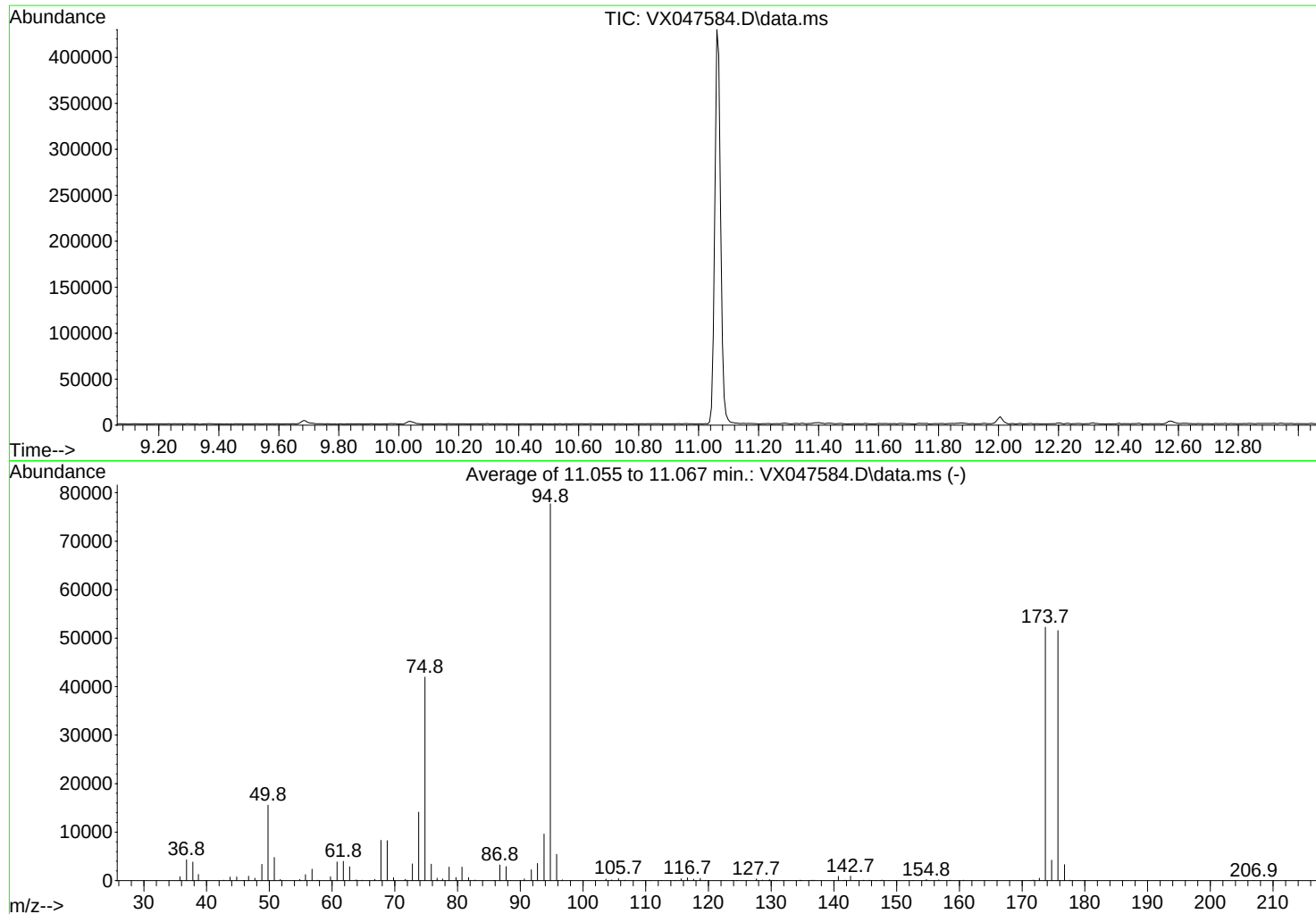
- 1
- 2
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- 15
- 16
- 17

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

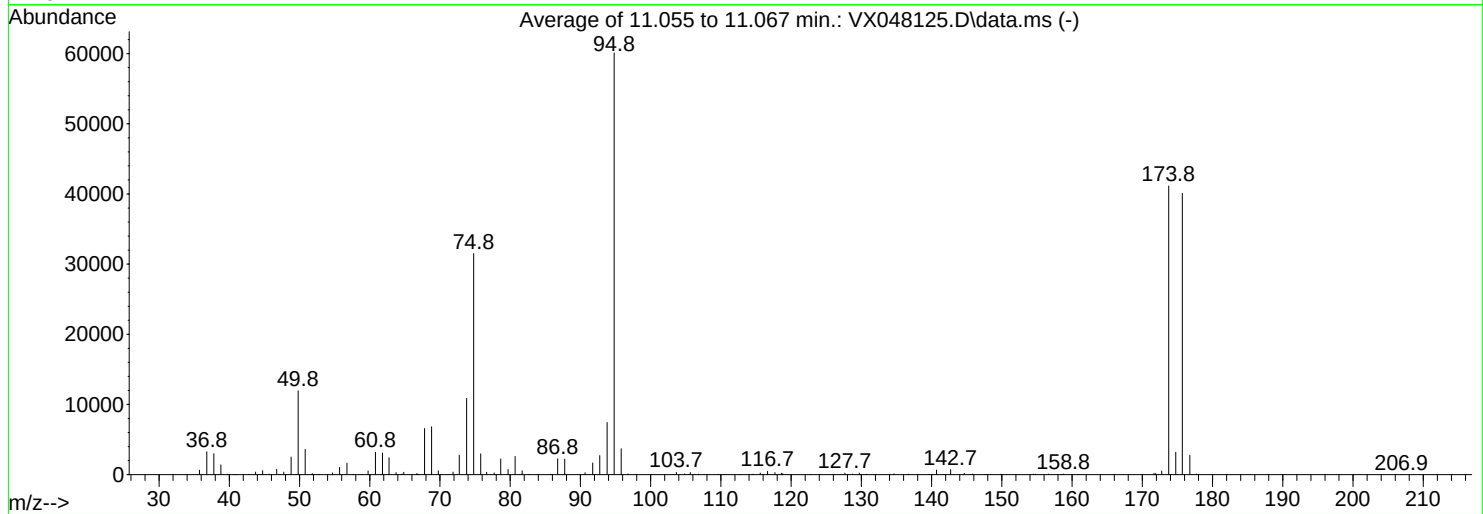
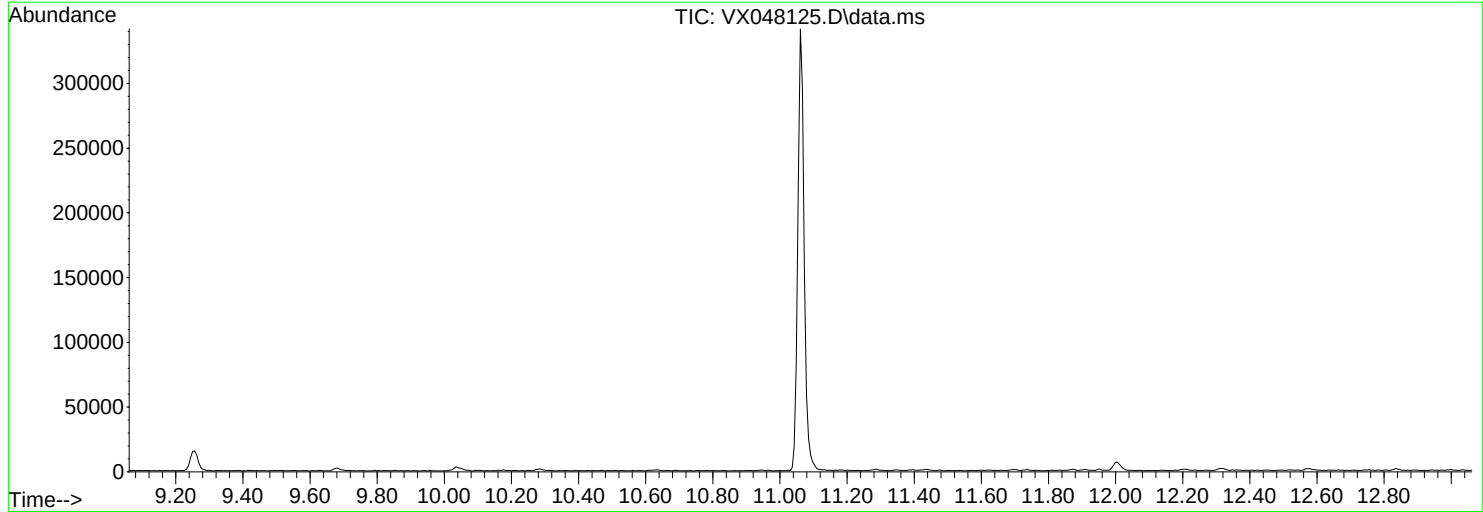
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	20.0	15566	PASS
75	95	30	60	54.0	41979	PASS
95	95	100	100	100.0	77717	PASS
96	95	5	9	7.0	5432	PASS
173	174	0.00	2	1.0	507	PASS
174	95	50	100	67.3	52275	PASS
175	174	5	9	8.1	4209	PASS
176	174	95	101	98.6	51560	PASS
177	176	5	9	6.4	3311	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101325\
Data File : VX048125.D
Acq On : 13 Oct 2025 08:13
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	19.9	11954	PASS
75	95	30	60	52.4	31523	PASS
95	95	100	100	100.0	60112	PASS
96	95	5	9	6.1	3687	PASS
173	174	0.00	2	1.3	529	PASS
174	95	50	100	68.4	41144	PASS
175	174	5	9	7.8	3196	PASS
176	174	95	101	97.5	40099	PASS
177	176	5	9	6.9	2756	PASS

Report of Analysis

Client: Weston Solutions, Inc.
Project: RFP 918
Client Sample ID: VX1013WBL01
Lab Sample ID: VX1013WBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3321
Matrix: TCLP
% Solid: 0
Test: TCLP VOA

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	10/13/25 09:46	VX101325
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	10/13/25 09:46	VX101325
78-93-3	2-Butanone	0.98	U	1	0.98	5.00	ug/L	10/13/25 09:46	VX101325
56-23-5	Carbon Tetrachloride	0.25	U	1	0.25	1.00	ug/L	10/13/25 09:46	VX101325
67-66-3	Chloroform	0.25	U	1	0.25	1.00	ug/L	10/13/25 09:46	VX101325
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	10/13/25 09:46	VX101325
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	10/13/25 09:46	VX101325
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	10/13/25 09:46	VX101325
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	10/13/25 09:46	VX101325
108-90-7	Chlorobenzene	0.12	U	1	0.12	1.00	ug/L	10/13/25 09:46	VX101325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	49.8			74 - 12	100%	SPK: 50		
1868-53-7	Dibromofluoromethane	48.9			75 - 12	98%	SPK: 50		
2037-26-5	Toluene-d8	48.3			86 - 11	97%	SPK: 50		
460-00-4	4-Bromofluorobenzene	54.5			77 - 12	109%	SPK: 50		
INTERNAL STANDARDS									
		Area							
363-72-4	Pentafluorobenzene	171000							
540-36-3	1,4-Difluorobenzene	349000							
3114-55-4	Chlorobenzene-d5	354000							
3855-82-1	1,4-Dichlorobenzene-d4	171000							

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\VX101325\
Data File : VX048128.D
Acq On : 13 Oct 2025 09:46
Operator : JC/MD
Sample : VX1013WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBL01

Quant Time: Oct 14 01:50:00 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	171399	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	348950	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	354107	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	171429	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	135864	49.799	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	99.600%
35) Dibromofluoromethane	5.379	113	114475	48.916	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.840%
50) Toluene-d8	8.635	98	390815	48.262	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	96.520%
62) 4-Bromofluorobenzene	11.061	95	167555	54.521	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	109.040%

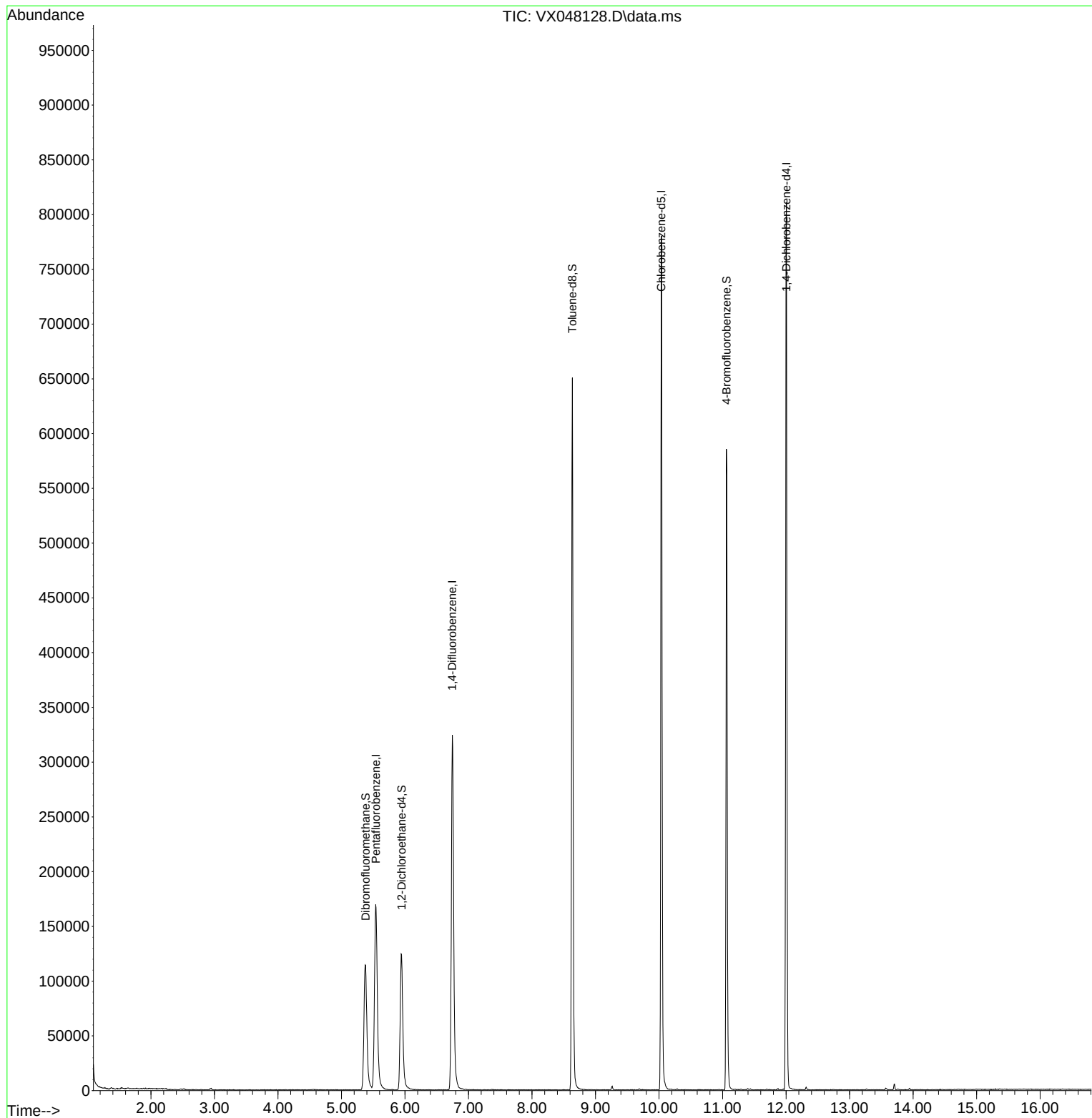
Target Compounds	Qvalue

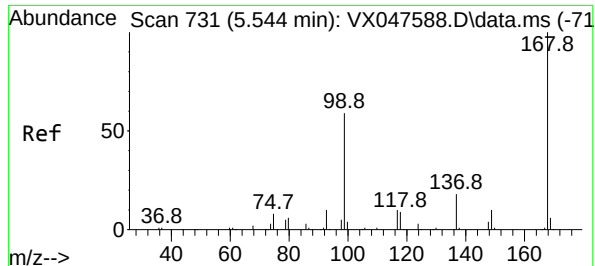
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101325\
Data File : VX048128.D
Acq On : 13 Oct 2025 09:46
Operator : JC/MD
Sample : VX1013WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBL01

Quant Time: Oct 14 01:50:00 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

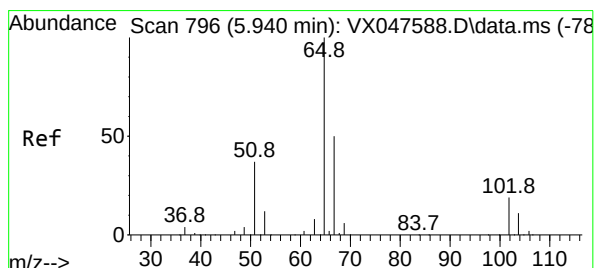
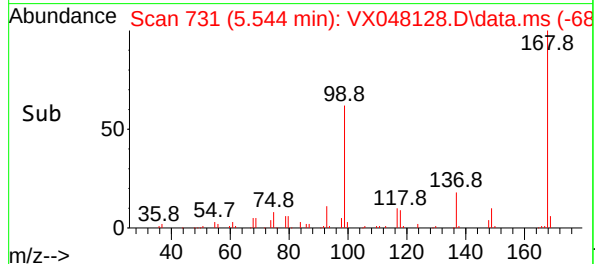
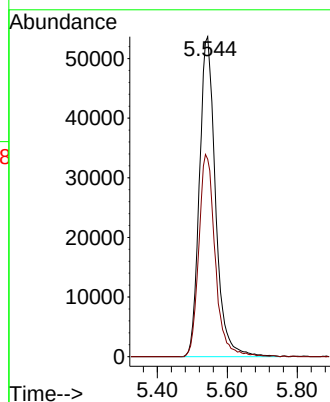
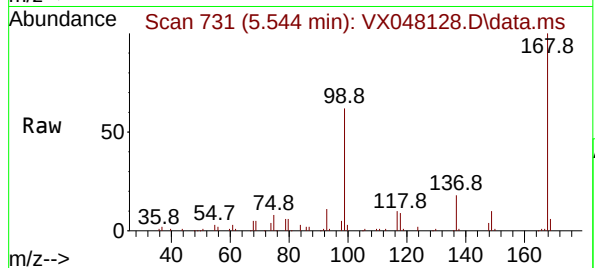




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048128.D
Acq: 13 Oct 2025 09:46

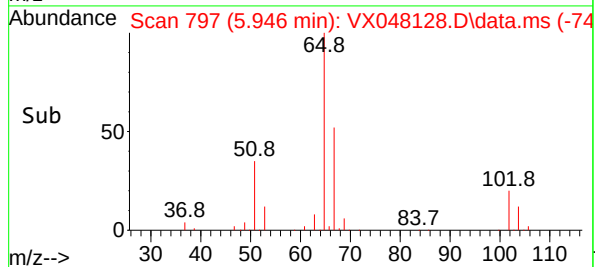
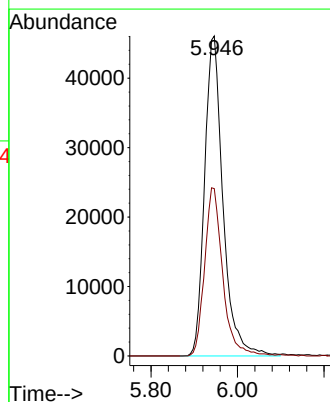
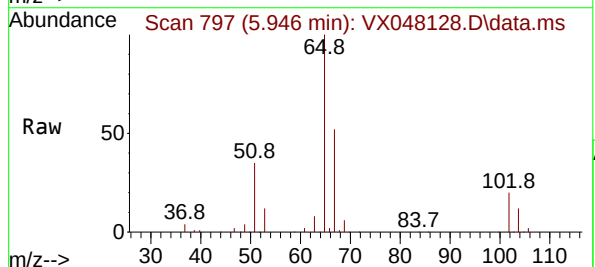
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBL01

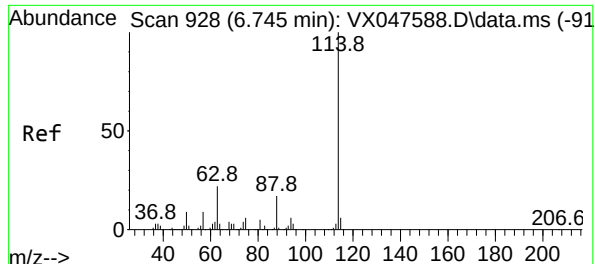
Tgt Ion:168 Resp: 171399
Ion Ratio Lower Upper
168 100
99 61.7 48.8 73.2



#33
1,2-Dichloroethane-d4
Concen: 49.799 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX048128.D
Acq: 13 Oct 2025 09:46

Tgt Ion: 65 Resp: 135864
Ion Ratio Lower Upper
65 100
67 51.7 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: VX048128.D

Acq: 13 Oct 2025 09:46

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBL01

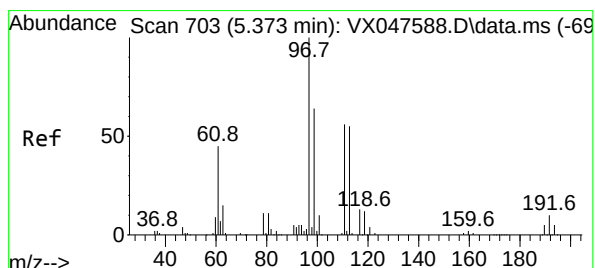
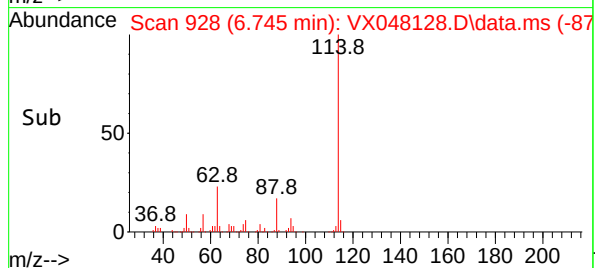
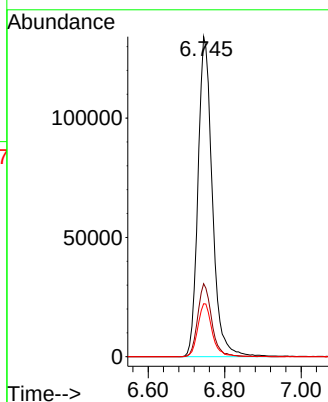
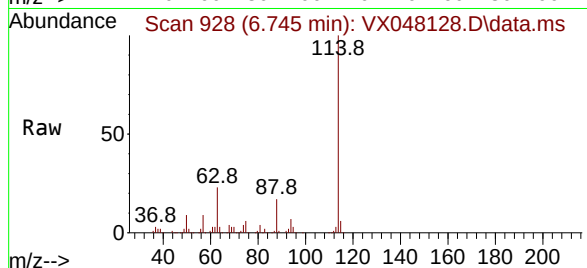
Tgt Ion:114 Resp: 348950

Ion Ratio Lower Upper

114 100

63 22.8 0.0 44.0

88 16.6 0.0 34.2



#35

Dibromofluoromethane

Concen: 48.916 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX048128.D

Acq: 13 Oct 2025 09:46

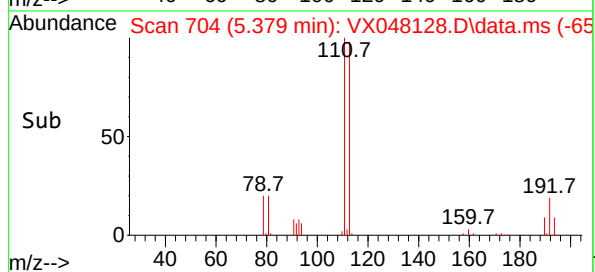
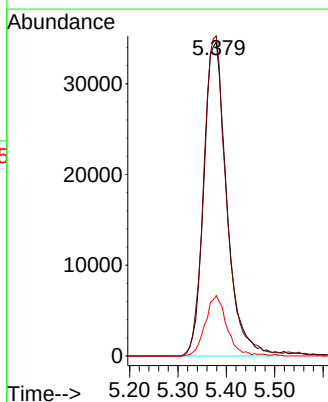
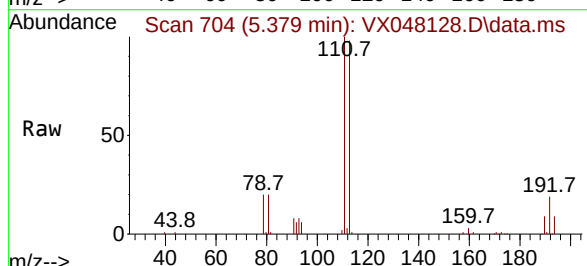
Tgt Ion:113 Resp: 114475

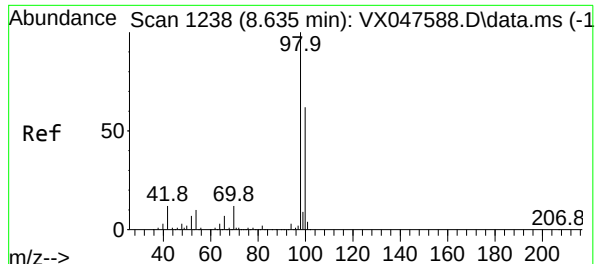
Ion Ratio Lower Upper

113 100

111 101.3 80.9 121.3

192 18.1 14.2 21.4





#50

Toluene-d8

Concen: 48.262 ug/l

RT: 8.635 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048128.D

Acq: 13 Oct 2025 09:46

Instrument :

MSVOA_X

ClientSampleId :

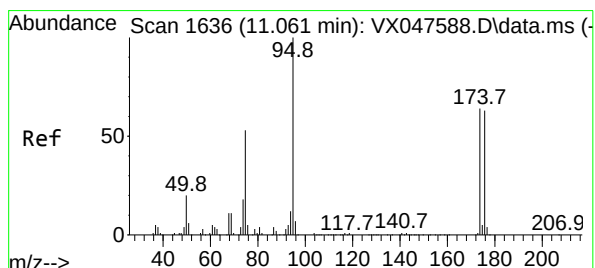
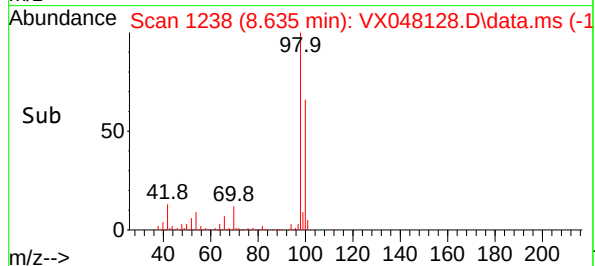
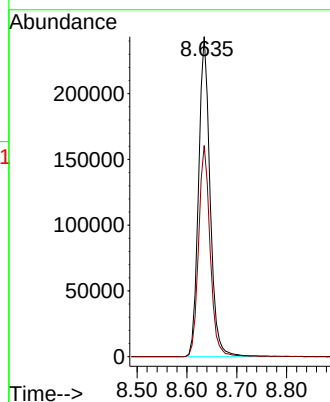
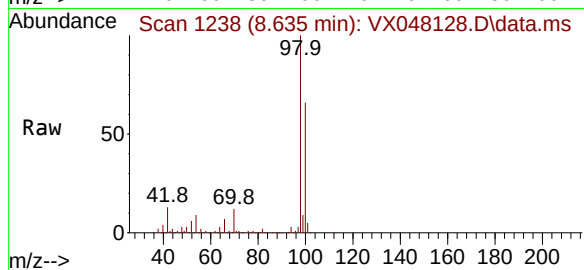
VX1013WBL01

Tgt Ion: 98 Resp: 390815

Ion Ratio Lower Upper

98 100

100 66.1 53.0 79.4



#62

4-Bromofluorobenzene

Concen: 54.521 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.000 min

Lab File: VX048128.D

Acq: 13 Oct 2025 09:46

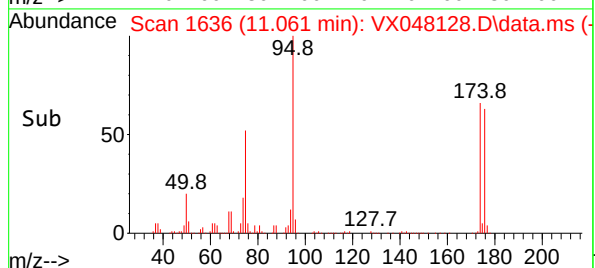
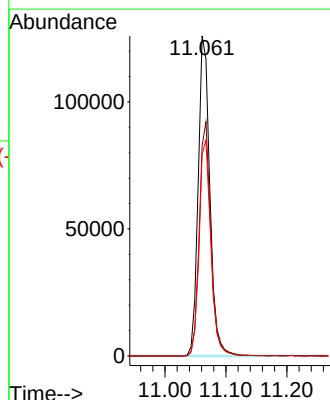
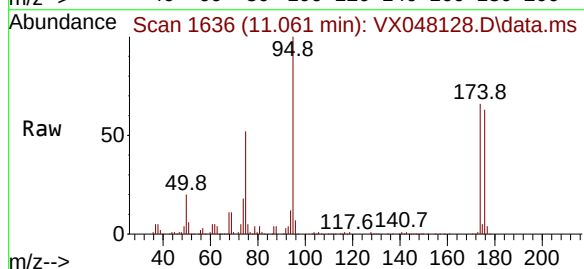
Tgt Ion: 95 Resp: 167555

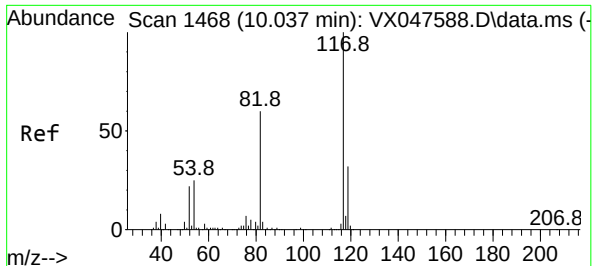
Ion Ratio Lower Upper

95 100

174 72.5 0.0 141.6

176 67.7 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: VX048128.D

Acq: 13 Oct 2025 09:46

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBL01

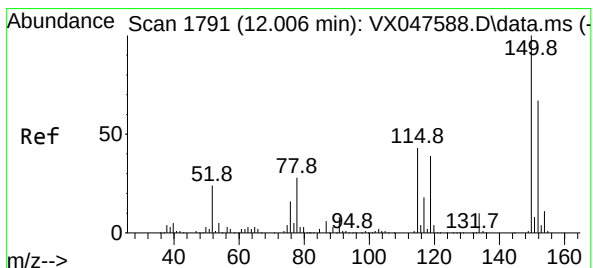
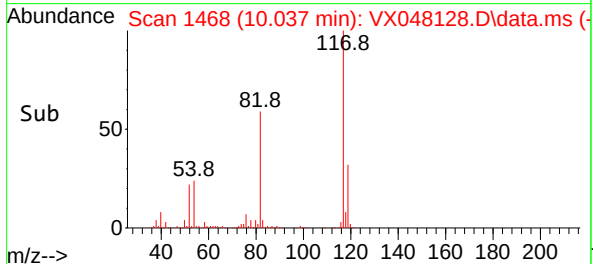
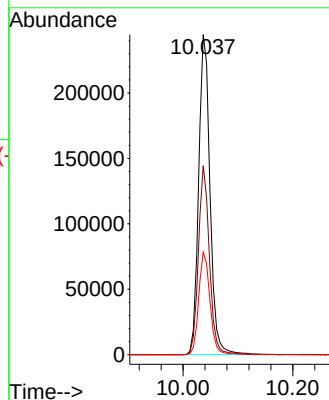
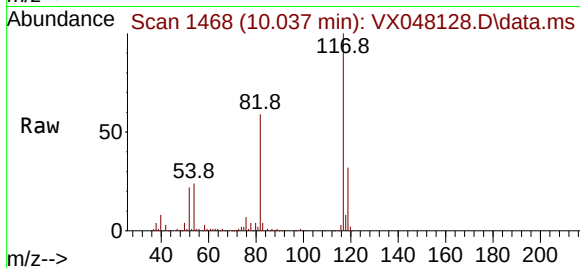
Tgt Ion:117 Resp: 354107

Ion Ratio Lower Upper

117 100

82 59.1 47.8 71.6

119 32.0 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: VX048128.D

Acq: 13 Oct 2025 09:46

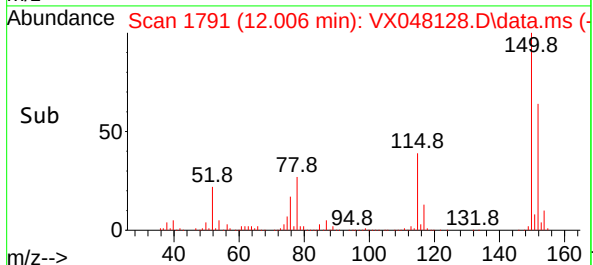
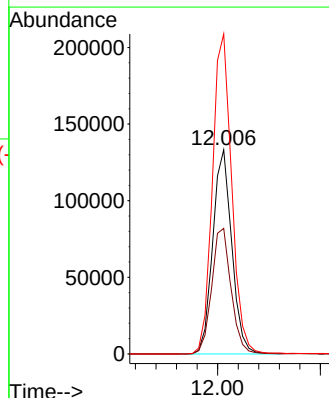
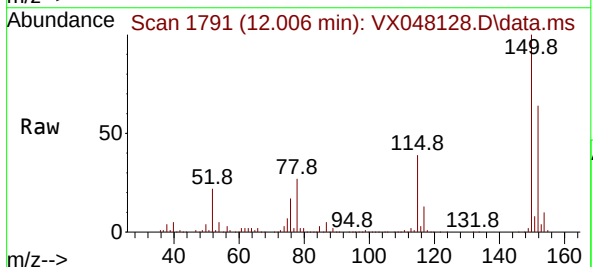
Tgt Ion:152 Resp: 171429

Ion Ratio Lower Upper

152 100

115 62.7 44.9 134.5

150 158.9 0.0 352.0



Report of Analysis

Client: Weston Solutions, Inc.
 Project: RFP 918
 Client Sample ID: VX1013WBS01
 Lab Sample ID: VX1013WBS01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3321
 Matrix: TCLP
 % Solid: 0
 Test: TCLP VOA

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	20.0		1	0.26	1.00	ug/L	10/13/25 10:43	VX101325
75-35-4	1,1-Dichloroethene	19.4		1	0.23	1.00	ug/L	10/13/25 10:43	VX101325
78-93-3	2-Butanone	77.9		1	0.98	5.00	ug/L	10/13/25 10:43	VX101325
56-23-5	Carbon Tetrachloride	20.0		1	0.25	1.00	ug/L	10/13/25 10:43	VX101325
67-66-3	Chloroform	19.1		1	0.25	1.00	ug/L	10/13/25 10:43	VX101325
71-43-2	Benzene	19.8		1	0.15	1.00	ug/L	10/13/25 10:43	VX101325
107-06-2	1,2-Dichloroethane	19.1		1	0.22	1.00	ug/L	10/13/25 10:43	VX101325
79-01-6	Trichloroethene	20.2		1	0.090	1.00	ug/L	10/13/25 10:43	VX101325
127-18-4	Tetrachloroethene	20.4		1	0.23	1.00	ug/L	10/13/25 10:43	VX101325
108-90-7	Chlorobenzene	19.5		1	0.12	1.00	ug/L	10/13/25 10:43	VX101325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	50.6			74 - 12	101%	SPK: 50		
1868-53-7	Dibromofluoromethane	55.6			75 - 12	111%	SPK: 50		
2037-26-5	Toluene-d8	53.9			86 - 11	108%	SPK: 50		
460-00-4	4-Bromofluorobenzene	54.8			77 - 12	110%	SPK: 50		
INTERNAL STANDARDS									
		Area							
363-72-4	Pentafluorobenzene	148000							
540-36-3	1,4-Difluorobenzene	253000							
3114-55-4	Chlorobenzene-d5	230000							
3855-82-1	1,4-Dichlorobenzene-d4	119000							

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\VX101325\
 Data File : VX048129.D
 Acq On : 13 Oct 2025 10:43
 Operator : JC/MD
 Sample : VX1013WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1013WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 10/14/2025
 Supervised By : Mahesh Dadoda 10/14/2025

Quant Time: Oct 14 01:50:19 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	5.532	168	148350	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	252959	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	229883	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.000	152	119033	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.934	65	119369	50.551	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 101.100%	
35) Dibromofluoromethane	5.367	113	94292	55.581	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 111.160%	
50) Toluene-d8	8.629	98	316122	53.852	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 107.700%	
62) 4-Bromofluorobenzene	11.061	95	122028	54.774	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 109.540%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.179	85	32828	21.370	ug/l	100
3) Chloromethane	1.301	50	37661	18.654	ug/l	98
4) Vinyl Chloride	1.380	62	39527	20.000	ug/l	98
5) Bromomethane	1.618	94	28236	22.531	ug/l	99
6) Chloroethane	1.697	64	26398	19.985	ug/l	99
7) Trichlorofluoromethane	1.898	101	59124	20.148	ug/l	95
8) Diethyl Ether	2.136	74	21980	18.311	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.337	101	34269	19.972	ug/l	99
10) Methyl Iodide	2.453	142	42630	15.930	ug/l	99
11) Tert butyl alcohol	2.941	59	18334	69.713	ug/l	98
12) 1,1-Dichloroethene	2.325	96	34241	19.427	ug/l	98
13) Acrolein	2.233	56	18241	75.267	ug/l	98
14) Allyl chloride	2.666	41	63862	17.559	ug/l	99
15) Acrylonitrile	3.056	53	79336	81.442	ug/l	100
16) Acetone	2.374	43	81810	79.680	ug/l	100
17) Carbon Disulfide	2.514	76	104233	21.602	ug/l	100
18) Methyl Acetate	2.697	43	32698	14.310	ug/l	99
19) Methyl tert-butyl Ether	3.105	73	108918	16.928	ug/l	98
20) Methylene Chloride	2.788	84	39166	18.021	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	37516	19.770	ug/l	92
22) Diisopropyl ether	3.751	45	128533	18.235	ug/l	98
23) Vinyl Acetate	3.709	43	492314	87.267	ug/l	100
24) 1,1-Dichloroethane	3.599	63	70241	18.748	ug/l	99
25) 2-Butanone	4.538	43	99825	77.945	ug/l	97
26) 2,2-Dichloropropane	4.465	77	58874	18.904	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	43468	18.705	ug/l	99
28) Bromochloromethane	4.885	49	29675	18.143	ug/l	98
29) Tetrahydrofuran	4.983	42	59828	77.654	ug/l	99
30) Chloroform	5.080	83	72428	19.131	ug/l	99
31) Cyclohexane	5.446	56	61201	19.614	ug/l	93
32) 1,1,1-Trichloroethane	5.367	97	62598	19.493	ug/l	98
36) 1,1-Dichloropropene	5.678	75	48401	19.525	ug/l	98
37) Ethyl Acetate	4.690	43	42866	16.150	ug/l	98
38) Carbon Tetrachloride	5.660	117	53844	19.991	ug/l	97
39) Methylcyclohexane	7.367	83	56127	19.946	ug/l	95
40) Benzene	6.019	78	149106	19.804	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101325\
 Data File : VX048129.D
 Acq On : 13 Oct 2025 10:43
 Operator : JC/MD
 Sample : VX1013WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1013WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 10/14/2025
 Supervised By : Mahesh Dadoda 10/14/2025

Quant Time: Oct 14 01:50:19 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)
41) Methacrylonitrile	4.904	41	22929	16.733	ug/l	98
42) 1,2-Dichloroethane	6.068	62	54826	19.138	ug/l	99
43) Isopropyl Acetate	6.318	43	70749	16.252	ug/l	100
44) Trichloroethene	7.104	130	36689	20.156	ug/l	99
45) 1,2-Dichloropropane	7.415	63	37635	19.521	ug/l	100
46) Dibromomethane	7.562	93	26936	19.199	ug/l	99
47) Bromodichloromethane	7.806	83	57444	19.842	ug/l	99
48) Methyl methacrylate	7.671	41	35340	16.298	ug/l	99
49) 1,4-Dioxane	7.641	88	7765	354.348	ug/l	92
51) 4-Methyl-2-Pentanone	8.555	43	200541	83.089	ug/l	99
52) Toluene	8.702	92	93668	20.193	ug/l	98
53) t-1,3-Dichloropropene	8.964	75	54932	18.602	ug/l	96
54) cis-1,3-Dichloropropene	8.348	75	61143	19.371	ug/l	98
55) 1,1,2-Trichloroethane	9.135	97	33878	18.940	ug/l	99
56) Ethyl methacrylate	9.098	69	48553	17.284	ug/l	98
57) 1,3-Dichloropropane	9.293	76	59890	19.491	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.226	63	112855	91.363	ug/l	99
59) 2-Hexanone	9.415	43	140828	81.242	ug/l	99
60) Dibromochloromethane	9.506	129	41473	20.123	ug/l	99
61) 1,2-Dibromoethane	9.592	107	35938	19.726	ug/l	100
64) Tetrachloroethene	9.256	164	30626	20.436	ug/l	98
65) Chlorobenzene	10.061	112	101845	19.501	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.147	131	34535	19.163	ug/l	98
67) Ethyl Benzene	10.177	91	173357	19.238	ug/l	97
68) m/p-Xylenes	10.287	106	132267	39.436	ug/l	99
69) o-Xylene	10.622	106	62993	19.418	ug/l	98
70) Styrene	10.634	104	108165	19.029	ug/l	98
71) Bromoform	10.781	173	26427	19.639	ug/l #	98
73) Isopropylbenzene	10.945	105	162619	17.970	ug/l	99
74) N-amyl acetate	10.823	43	60305	14.613	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	46175	16.865	ug/l	98
76) 1,2,3-Trichloropropane	11.220	75	45237m	18.770	ug/l	
77) Bromobenzene	11.177	156	39258	17.613	ug/l	97
78) n-propylbenzene	11.287	91	196547	18.373	ug/l	100
79) 2-Chlorotoluene	11.348	91	119031	18.167	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	136540	18.364	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	13529	14.315	ug/l	95
82) 4-Chlorotoluene	11.433	91	140028	18.095	ug/l	99
83) tert-Butylbenzene	11.695	119	131943	17.336	ug/l	98
84) 1,2,4-Trimethylbenzene	11.732	105	135638	17.994	ug/l	99
85) sec-Butylbenzene	11.872	105	164291	18.173	ug/l	100
86) p-Isopropyltoluene	11.988	119	138550	18.102	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	74328	17.954	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	75672	17.809	ug/l	99
89) n-Butylbenzene	12.311	91	128271	18.112	ug/l	99
90) Hexachloroethane	12.518	117	25236	18.780	ug/l	97
91) 1,2-Dichlorobenzene	12.317	146	70052	17.761	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	7847	14.156	ug/l	93
93) 1,2,4-Trichlorobenzene	13.567	180	41939	16.361	ug/l	98
94) Hexachlorobutadiene	13.701	225	16364	18.794	ug/l	97
95) Naphthalene	13.756	128	112268	14.383	ug/l	99
96) 1,2,3-Trichlorobenzene	13.939	180	39097	16.397	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101325\
Data File : VX048129.D
Acq On : 13 Oct 2025 10:43
Operator : JC/MD
Sample : VX1013WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

Quant Time: Oct 14 01:50:19 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)

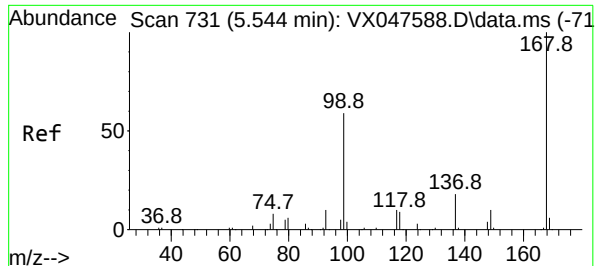
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025





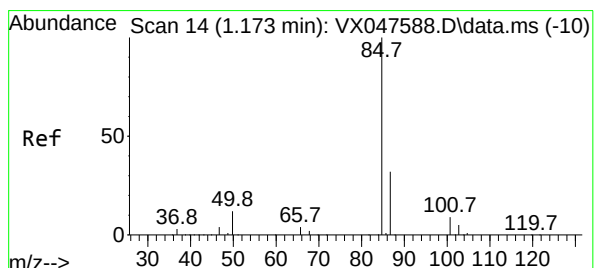
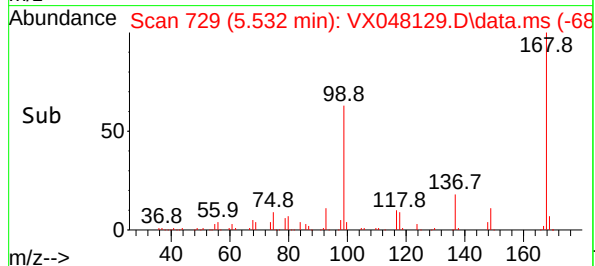
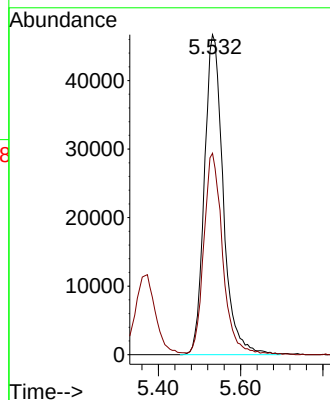
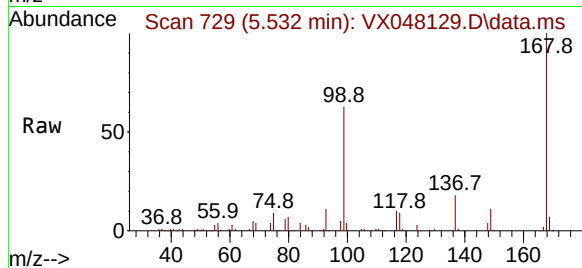
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01

Tgt Ion:168 Resp: 148350
Ion Ratio Lower Upper
168 100
99 62.6 48.8 73.2

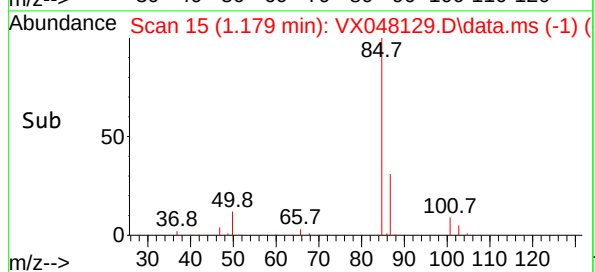
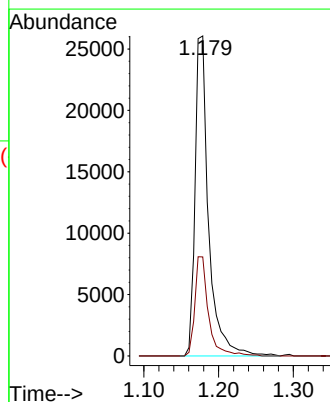
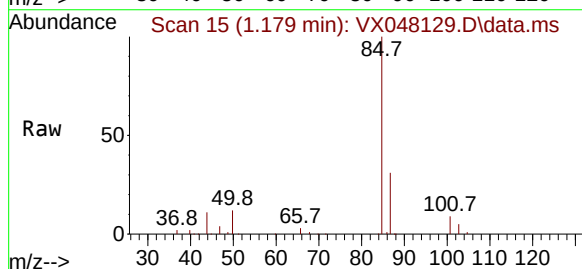
Manual Integrations
APPROVED

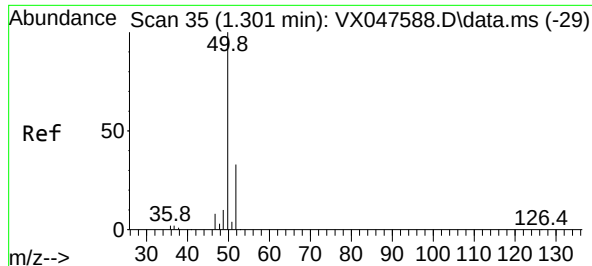
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#2
Dichlorodifluoromethane
Concen: 21.370 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

Tgt Ion: 85 Resp: 32828
Ion Ratio Lower Upper
85 100
87 31.3 15.8 47.3





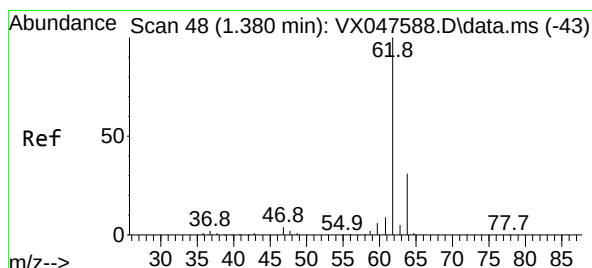
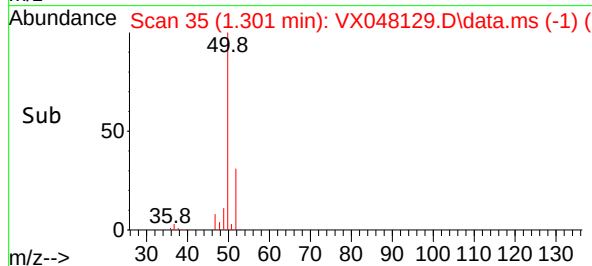
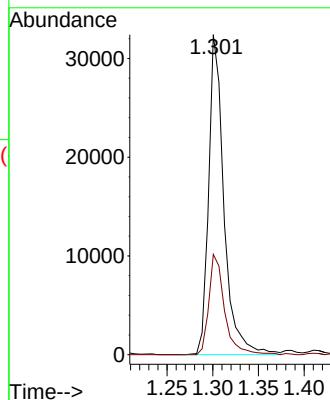
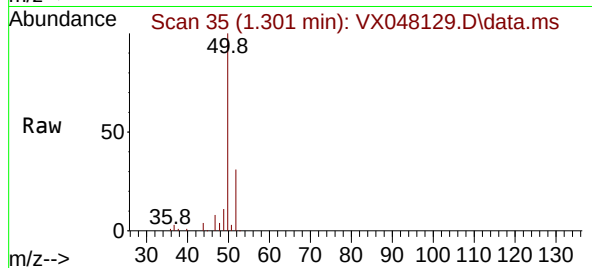
#3
Chloromethane
Concen: 18.654 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01

Tgt Ion: 50 Resp: 3766
Ion Ratio Lower Upper
50 100
52 31.4 26.1 39.1

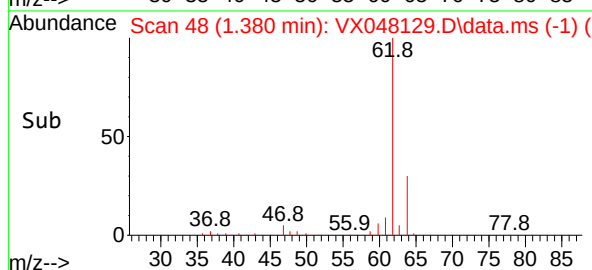
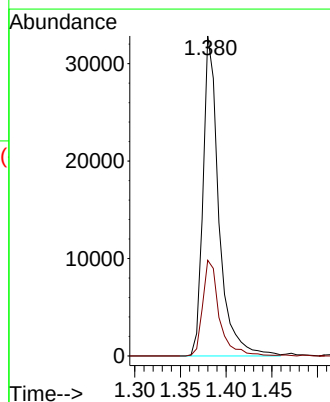
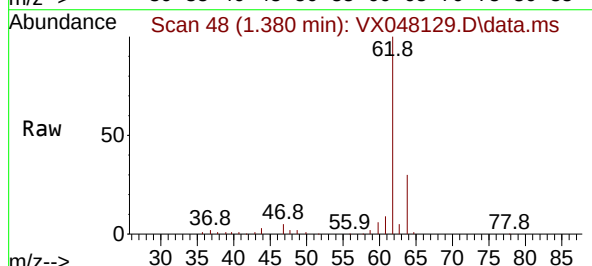
Manual Integrations
APPROVED

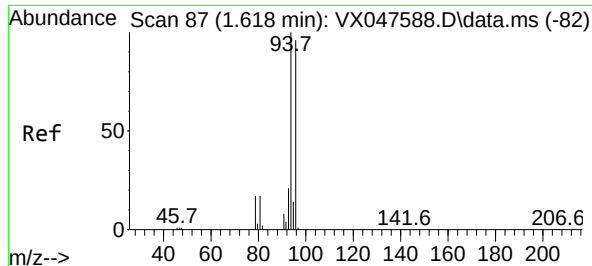
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#4
Vinyl Chloride
Concen: 20.000 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

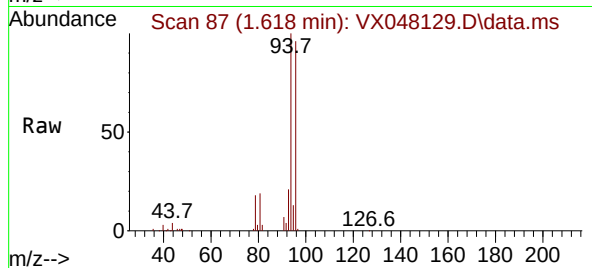
Tgt Ion: 62 Resp: 39527
Ion Ratio Lower Upper
62 100
64 29.9 24.9 37.3





#5
Bromomethane
Concen: 22.531 ug/l
RT: 1.618 min Scan# 87
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

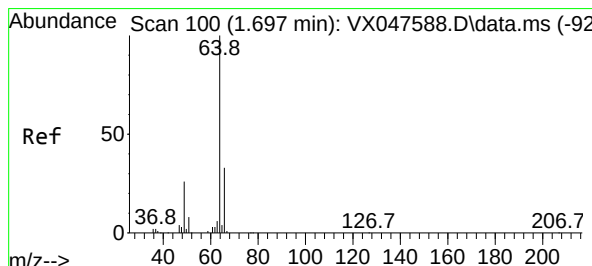
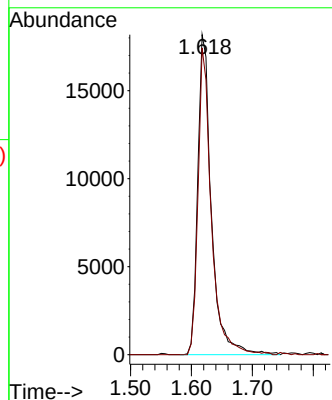
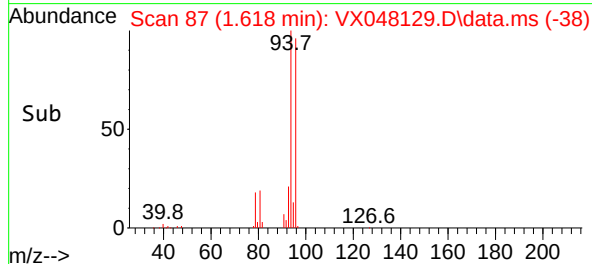
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01



Tgt Ion: 94 Resp: 28230
Ion Ratio Lower Upper
94 100
96 97.1 76.6 115.0

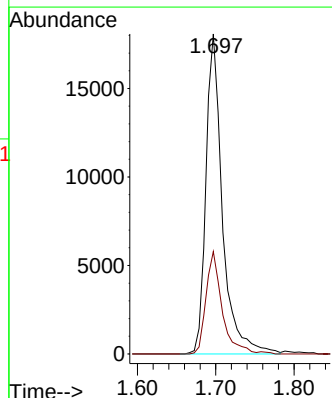
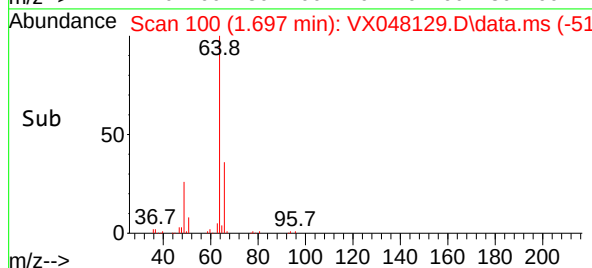
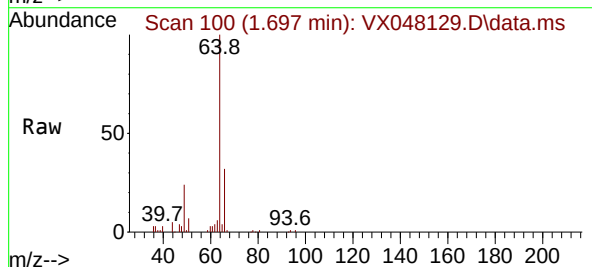
Manual Integrations
APPROVED

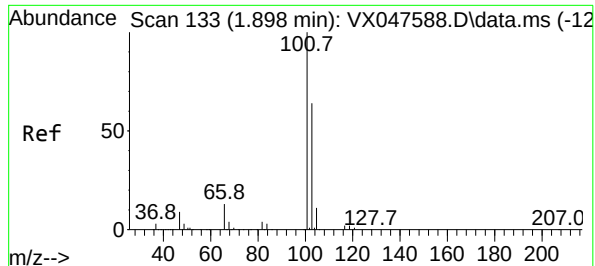
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#6
Chloroethane
Concen: 19.985 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

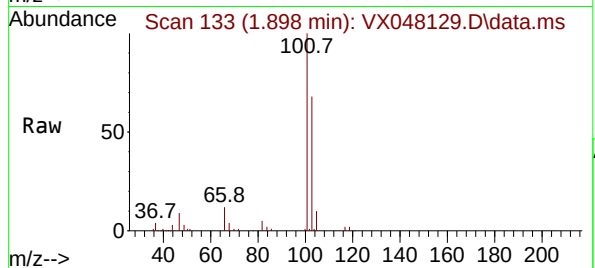
Tgt Ion: 64 Resp: 26398
Ion Ratio Lower Upper
64 100
66 32.0 26.1 39.1





#7
Trichlorofluoromethane
Concen: 20.148 ug/l
RT: 1.898 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

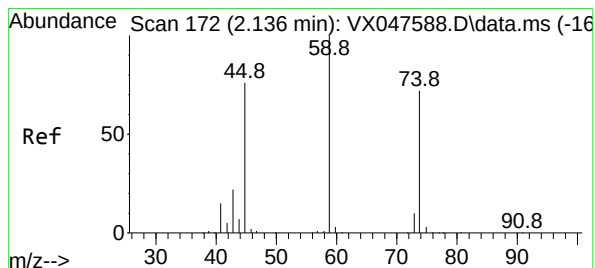
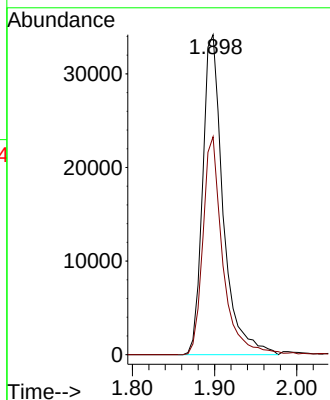
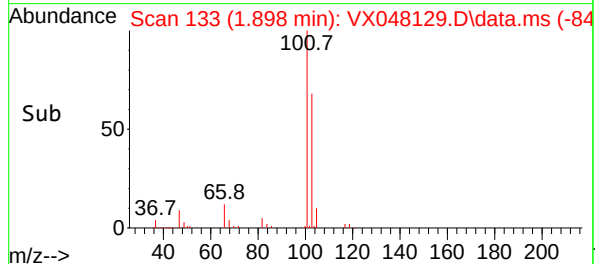
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01



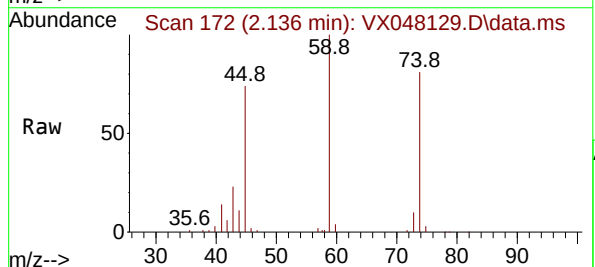
Tgt Ion: 101 Resp: 59124
Ion Ratio Lower Upper
101 100
103 68.1 51.4 77.2

Manual Integrations
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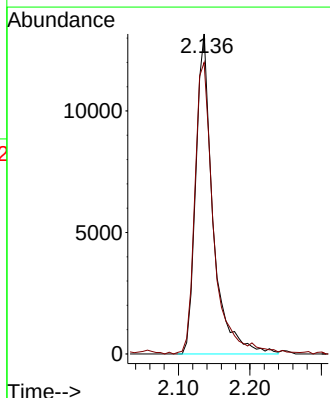
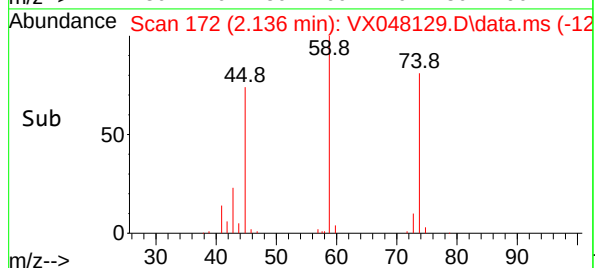
Reviewed By : John Carlone 10/14/2025
Supervised By : Mahesh Dadoda 10/14/2025

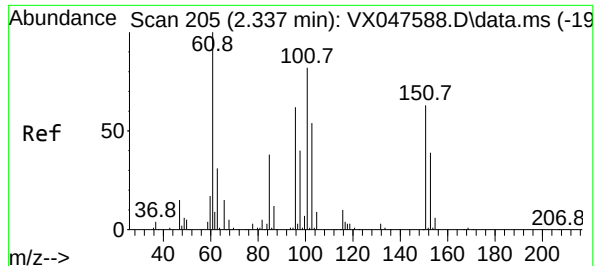


#8
Diethyl Ether
Concen: 18.311 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43



Tgt Ion: 74 Resp: 21980
Ion Ratio Lower Upper
74 100
45 100.4 52.3 156.8





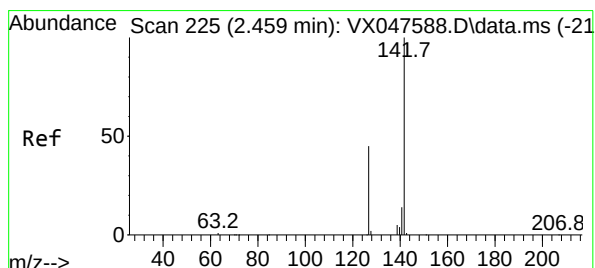
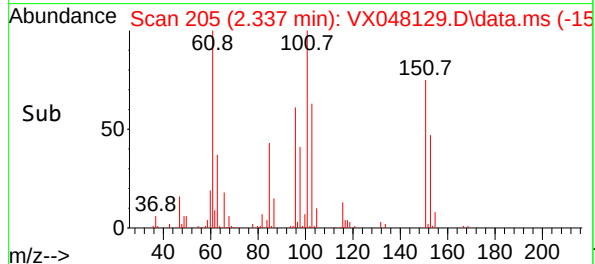
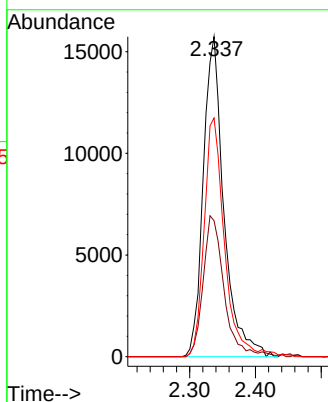
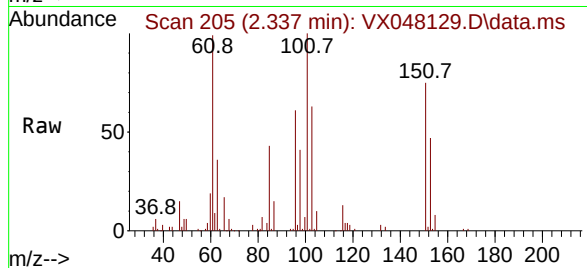
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.972 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01

Tgt Ion:101 Resp: 34269
Ion Ratio Lower Upper
101 100
85 44.8 35.5 53.3
151 72.5 59.4 89.0

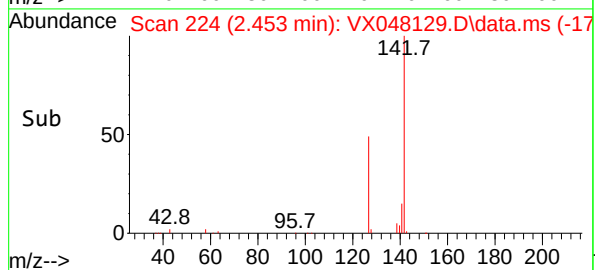
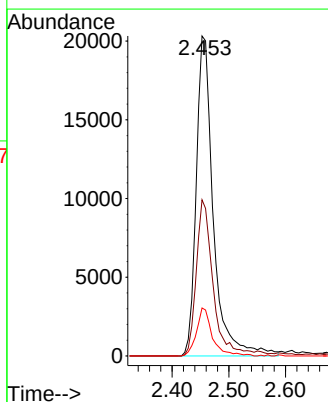
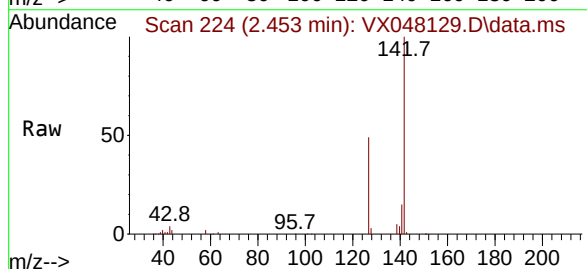
Manual Integrations
APPROVED

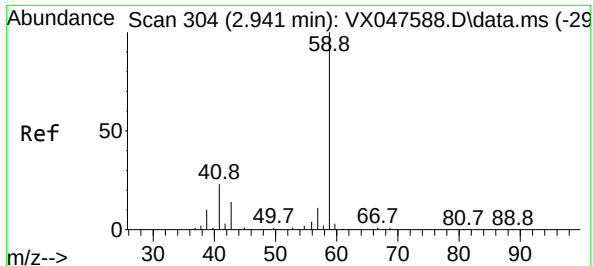
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#10
Methyl Iodide
Concen: 15.930 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

Tgt Ion:142 Resp: 42630
Ion Ratio Lower Upper
142 100
127 47.5 37.2 55.8
141 13.9 11.4 17.0





#11

Tert butyl alcohol

Concen: 69.713 ug/l

RT: 2.941 min Scan# 304

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion: 59 Resp: 18334

Ion Ratio Lower Upper

59 100

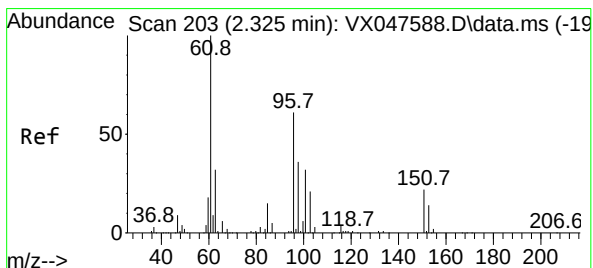
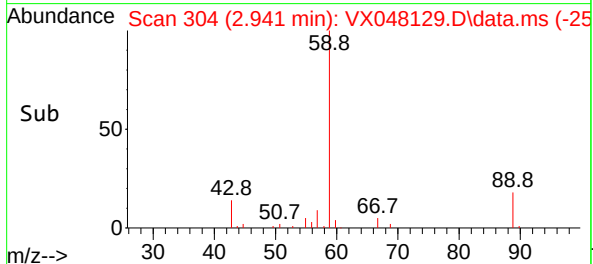
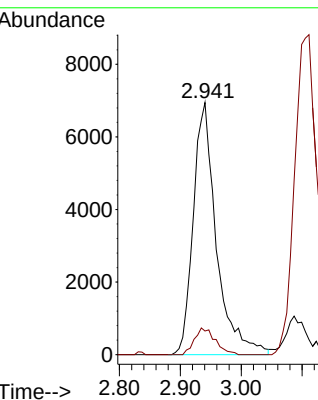
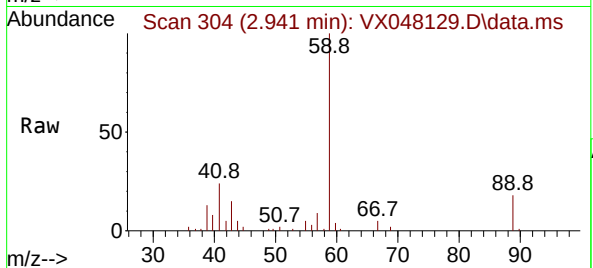
57 9.5 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#12

1,1-Dichloroethene

Concen: 19.427 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

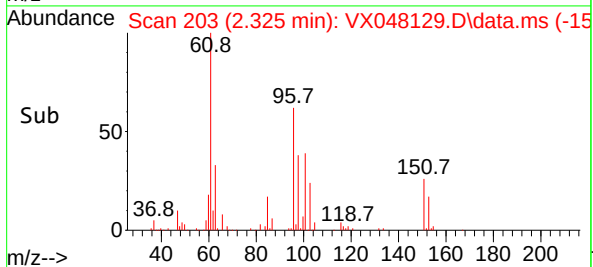
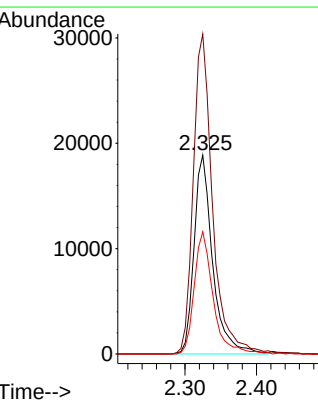
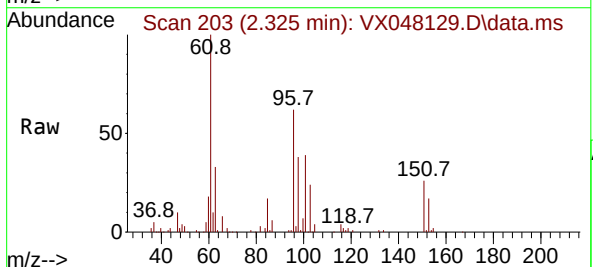
Tgt Ion: 96 Resp: 34241

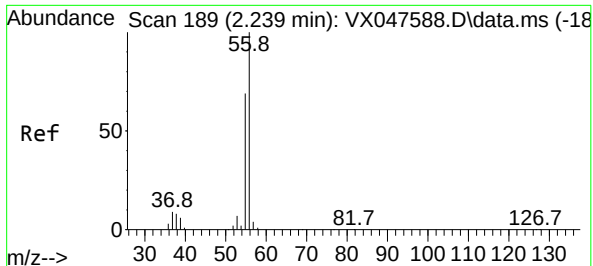
Ion Ratio Lower Upper

96 100

61 161.0 131.0 196.6

98 61.5 47.7 71.5





#13

Acrolein

Concen: 75.267 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion: 56 Resp: 1824

Ion Ratio Lower Upper

56 100

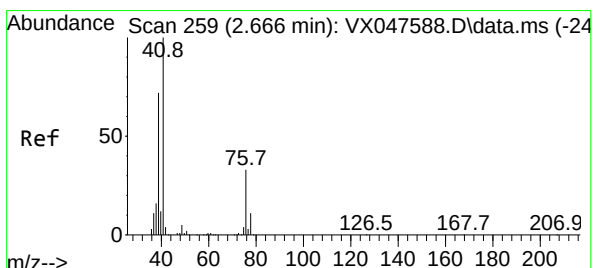
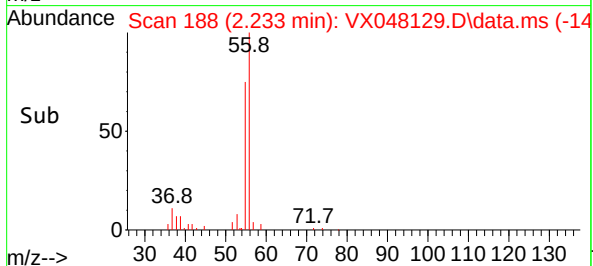
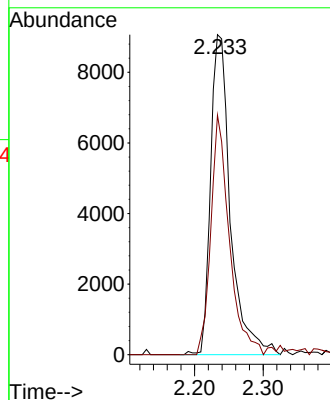
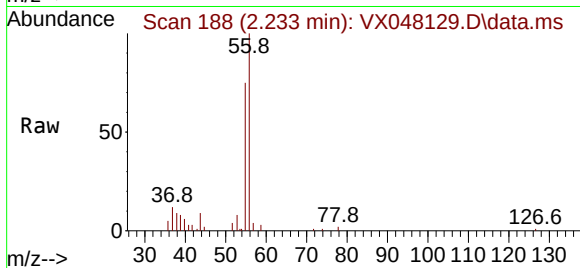
55 69.7 57.2 85.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#14

Allyl chloride

Concen: 17.559 ug/l

RT: 2.666 min Scan# 259

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

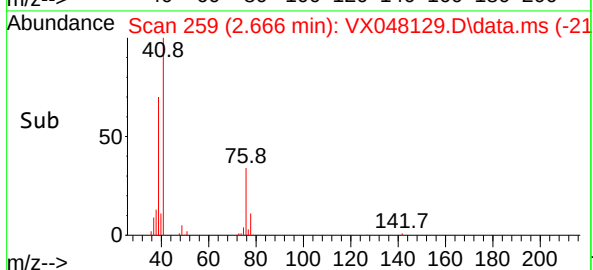
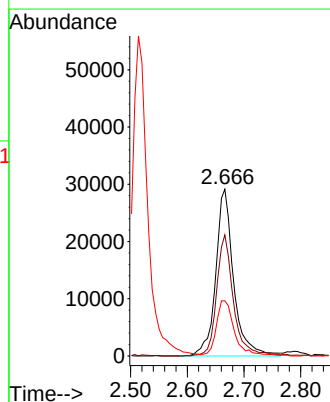
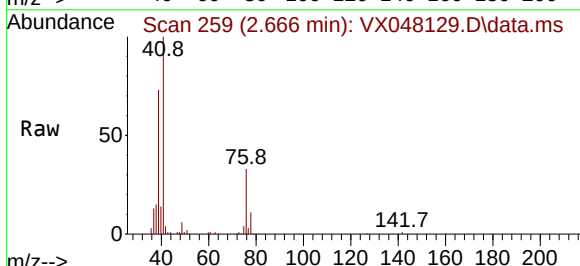
Tgt Ion: 41 Resp: 63862

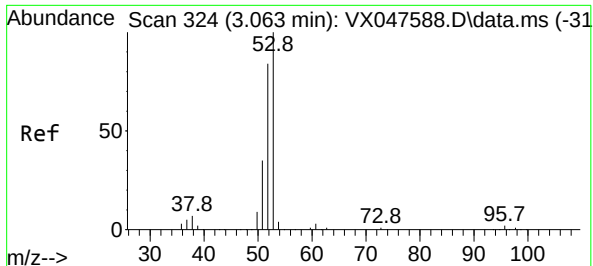
Ion Ratio Lower Upper

41 100

39 68.7 54.7 82.1

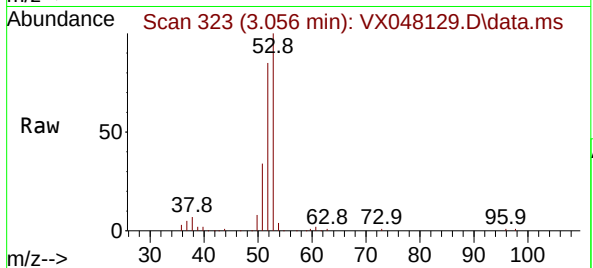
76 33.9 25.7 38.5





#15
Acrylonitrile
Concen: 81.442 ug/l
RT: 3.056 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

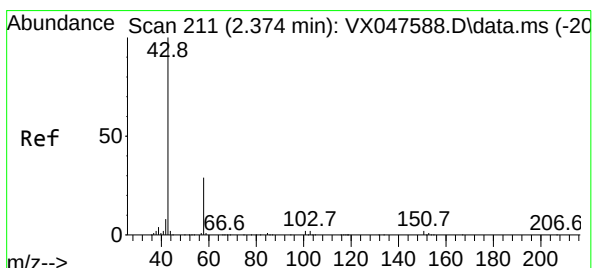
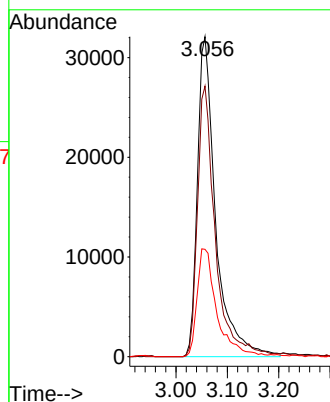
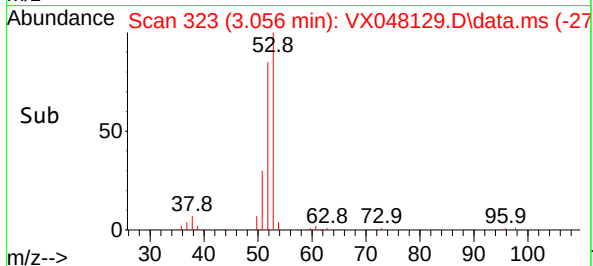
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01



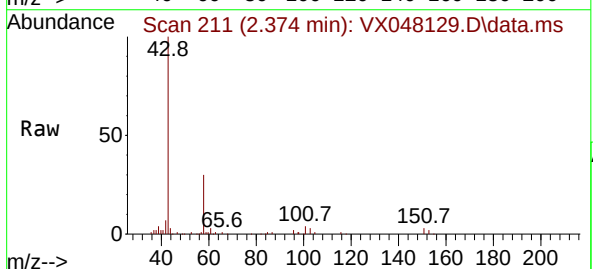
Tgt Ion: 53 Resp: 79330
Ion Ratio Lower Upper
53 100
52 82.8 66.4 99.6
51 36.5 29.5 44.3

Manual Integrations
APPROVED

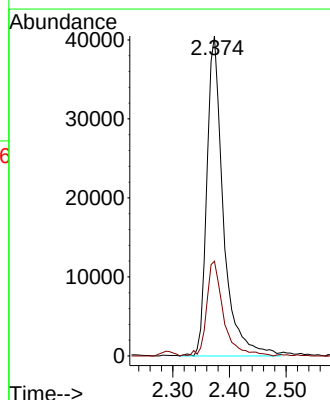
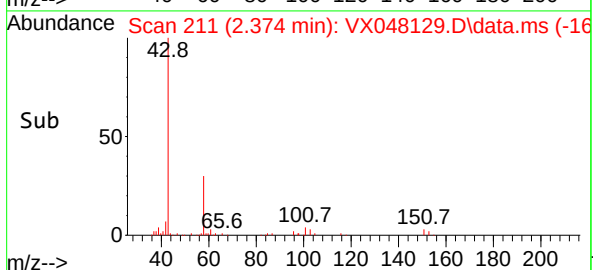
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

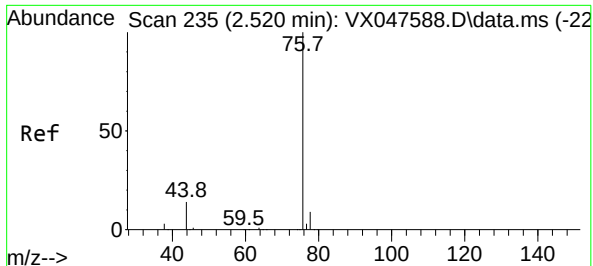


#16
Acetone
Concen: 79.680 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43



Tgt Ion: 43 Resp: 81810
Ion Ratio Lower Upper
43 100
58 29.4 23.4 35.0





#17

Carbon Disulfide

Concen: 21.602 ug/l

RT: 2.514 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion: 76 Resp: 10423

Ion Ratio Lower Upper

76 100

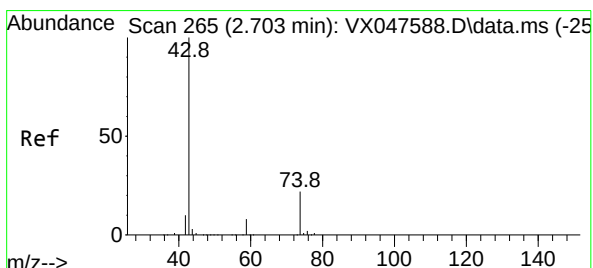
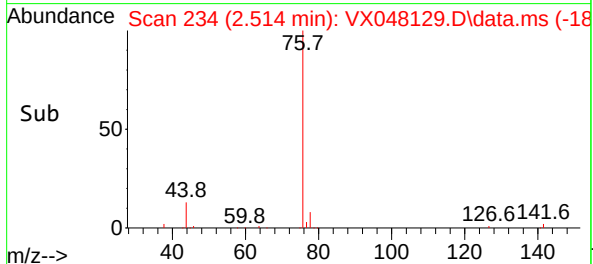
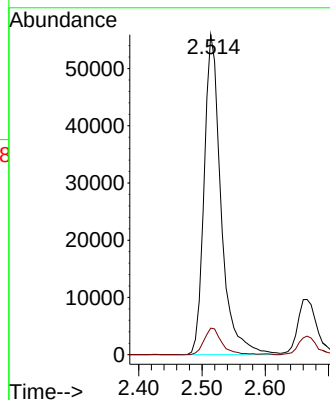
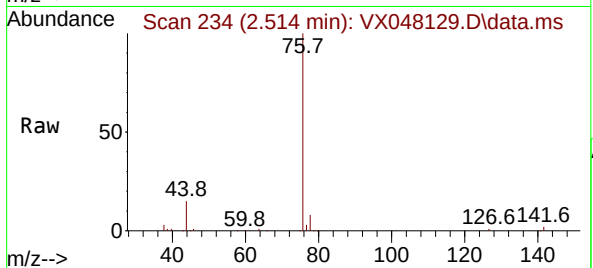
78 8.5 6.8 10.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#18

Methyl Acetate

Concen: 14.310 ug/l

RT: 2.697 min Scan# 264

Delta R.T. -0.006 min

Lab File: VX048129.D

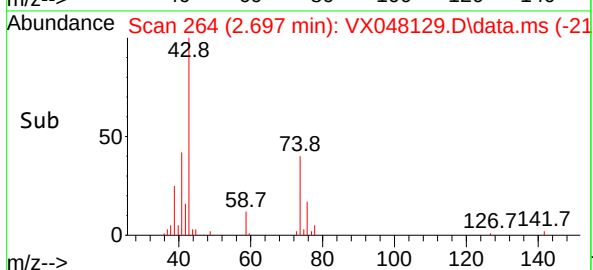
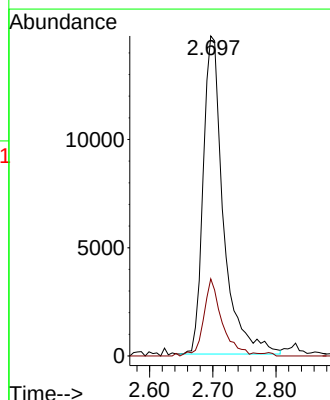
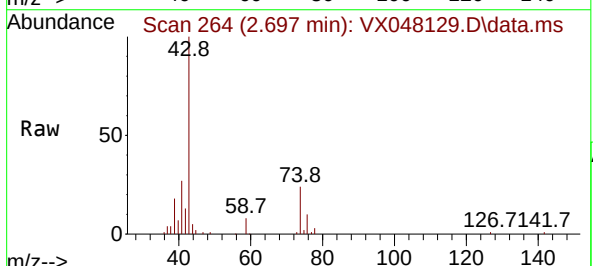
Acq: 13 Oct 2025 10:43

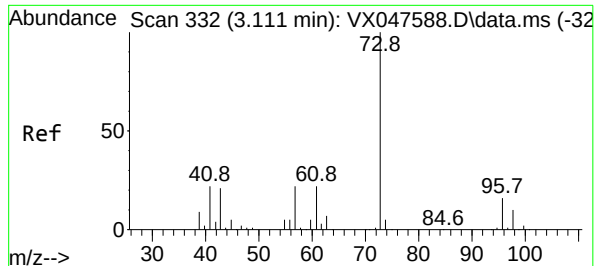
Tgt Ion: 43 Resp: 32698

Ion Ratio Lower Upper

43 100

74 22.3 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 16.928 ug/l

RT: 3.105 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion: 73 Resp: 108918

Ion Ratio Lower Upper

73 100

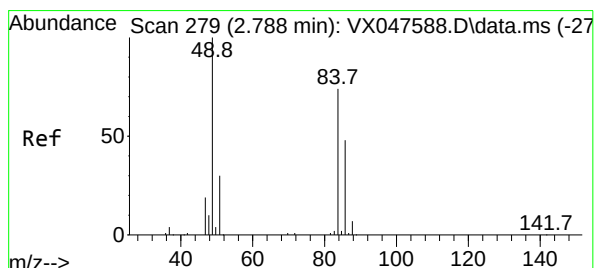
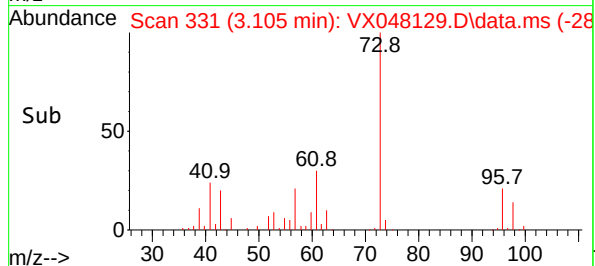
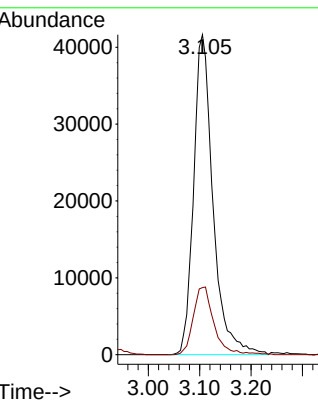
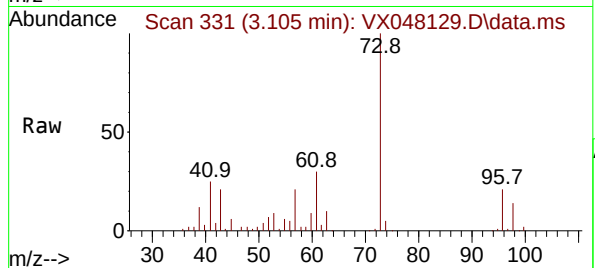
57 20.9 17.4 26.2

Manual Integrations

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Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#20

Methylene Chloride

Concen: 18.021 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Tgt Ion: 84 Resp: 39166

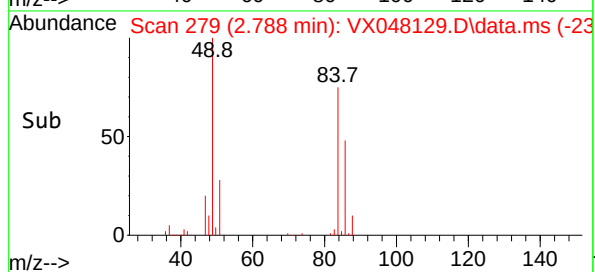
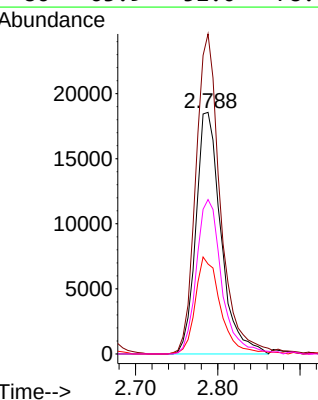
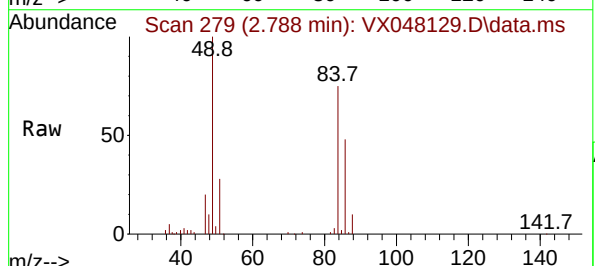
Ion Ratio Lower Upper

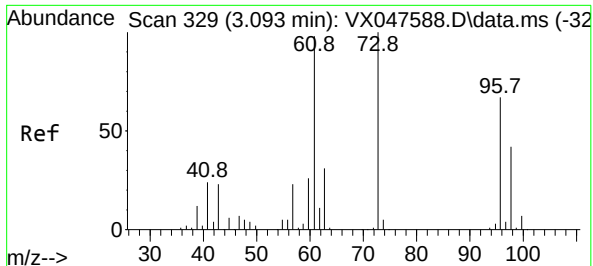
84 100

49 132.5 108.6 162.8

51 37.2 32.6 48.8

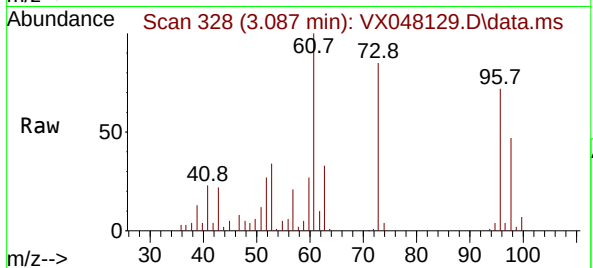
86 63.9 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 19.770 ug/l
RT: 3.087 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

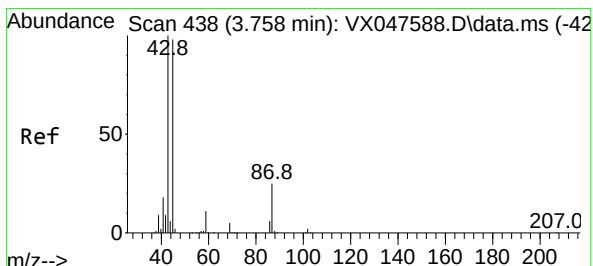
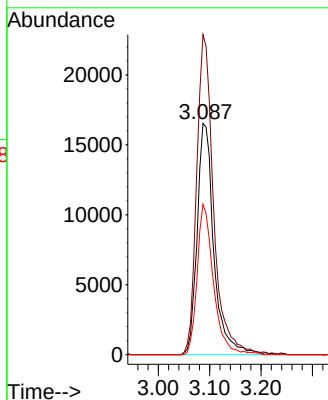
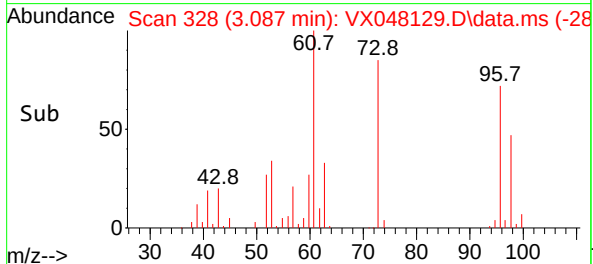
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01



Tgt Ion: 96 Resp: 37510
Ion Ratio Lower Upper
96 100
61 131.9 116.2 174.2
98 62.0 49.3 73.9

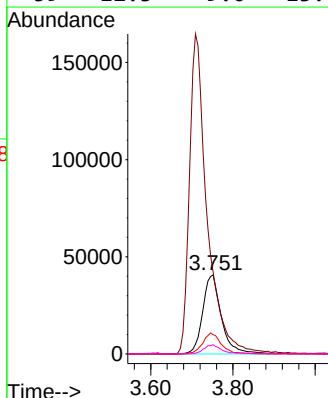
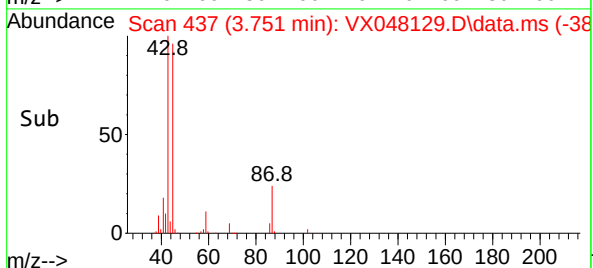
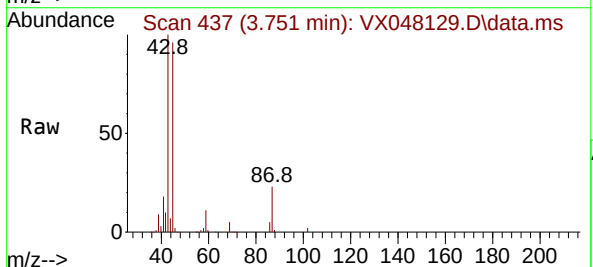
Manual Integrations
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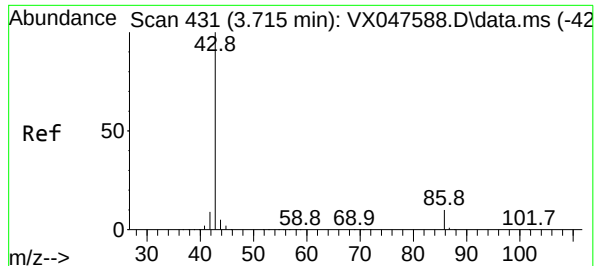
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#22
Diisopropyl ether
Concen: 18.235 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

Tgt Ion: 45 Resp: 128533
Ion Ratio Lower Upper
45 100
43 102.8 81.0 121.4
87 24.4 20.3 30.5
59 12.3 9.0 13.4





#23

Vinyl Acetate

Concen: 87.267 ug/l

RT: 3.709 min Scan# 41

Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion: 43 Resp: 492314

Ion Ratio Lower Upper

43 100

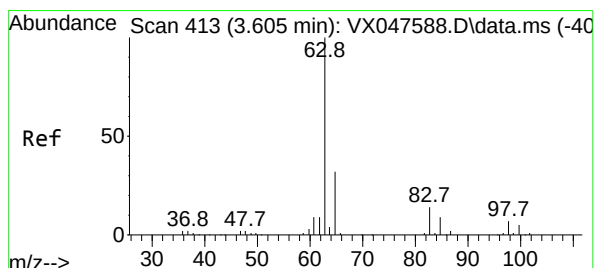
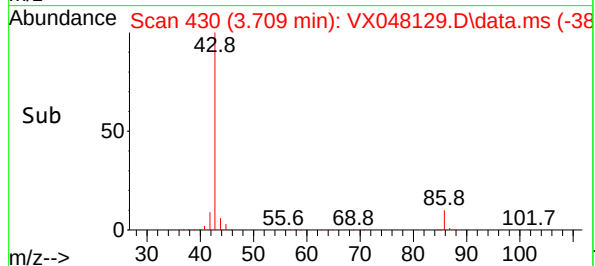
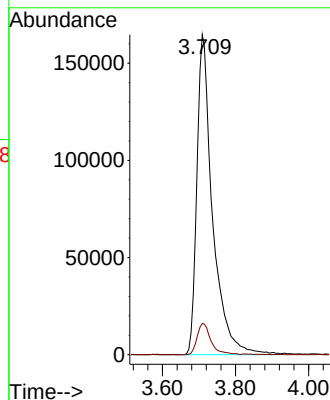
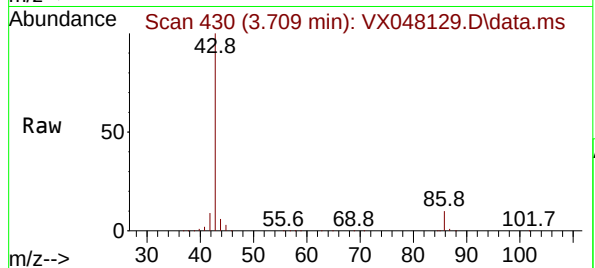
86 9.7 7.8 11.8

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Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#24

1,1-Dichloroethane

Concen: 18.748 ug/l

RT: 3.599 min Scan# 412

Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

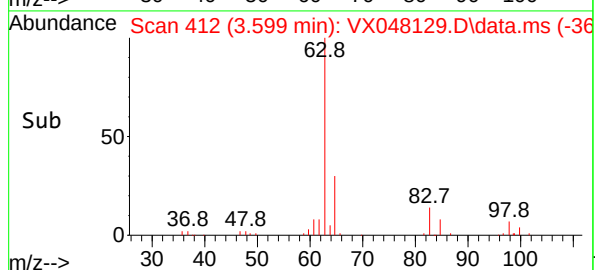
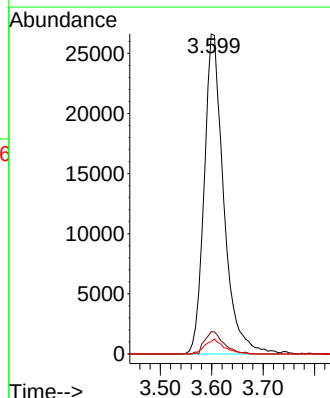
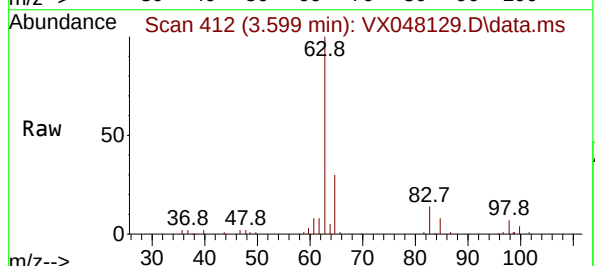
Tgt Ion: 63 Resp: 70241

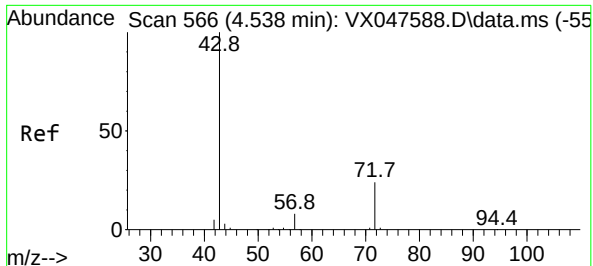
Ion Ratio Lower Upper

63 100

98 7.5 3.8 11.2

100 3.9 2.3 6.9





#25

2-Butanone

Concen: 77.945 ug/l

RT: 4.538 min Scan# 50

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion: 43 Resp: 9982

Ion Ratio Lower Upper

43 100

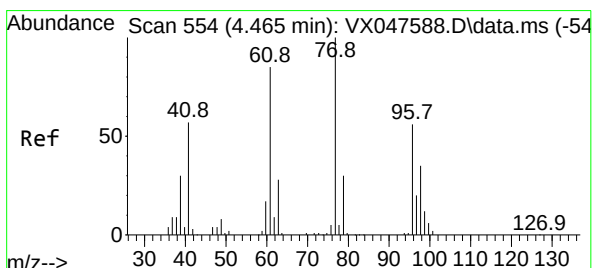
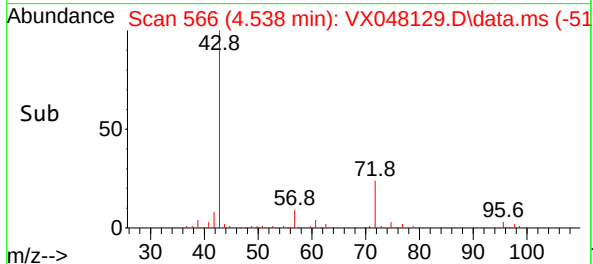
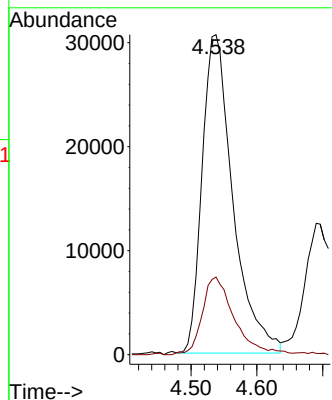
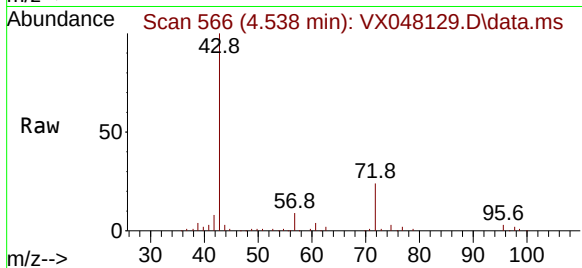
72 23.4 20.1 30.1

Manual Integrations

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Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#26

2,2-Dichloropropane

Concen: 18.904 ug/l

RT: 4.465 min Scan# 554

Delta R.T. -0.000 min

Lab File: VX048129.D

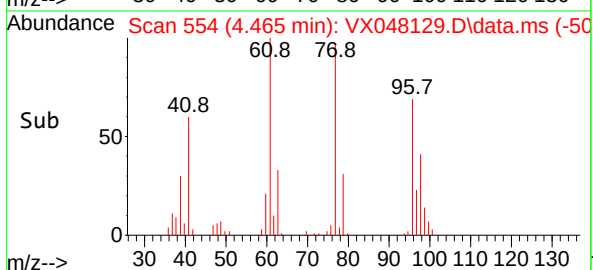
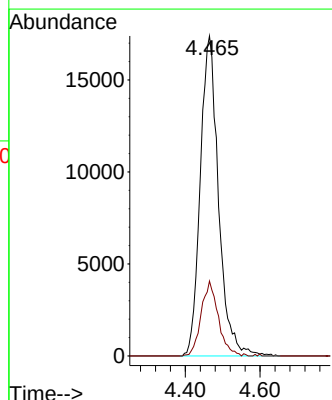
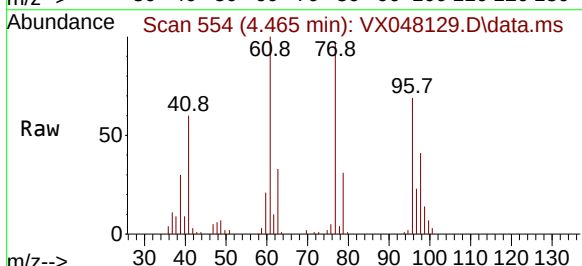
Acq: 13 Oct 2025 10:43

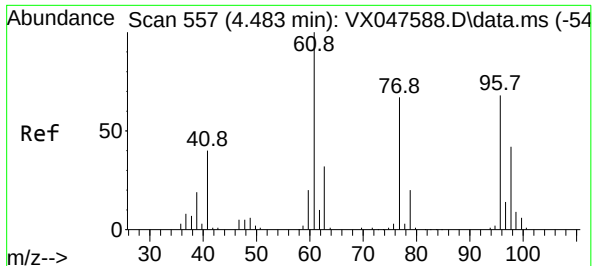
Tgt Ion: 77 Resp: 58874

Ion Ratio Lower Upper

77 100

97 21.9 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 18.705 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion: 96 Resp: 4346

Ion Ratio Lower Upper

96 100

61 150.4 0.0 303.2

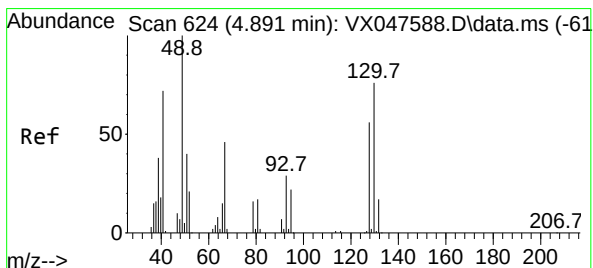
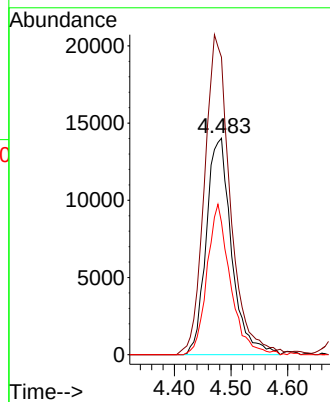
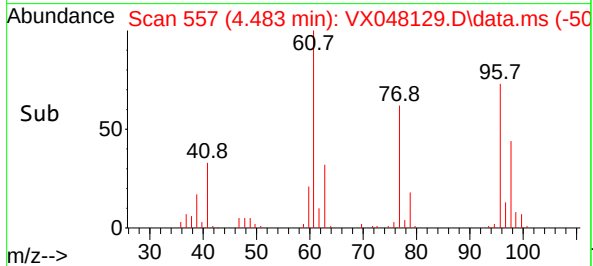
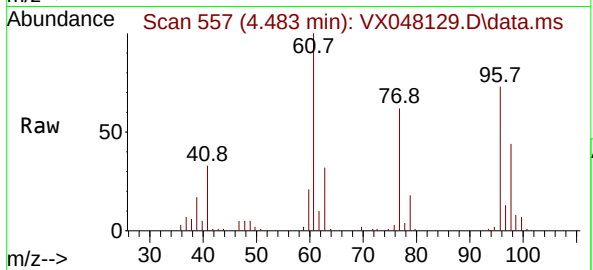
98 64.2 0.0 127.8

Manual Integrations

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Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#28

Bromochloromethane

Concen: 18.143 ug/l

RT: 4.885 min Scan# 623

Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

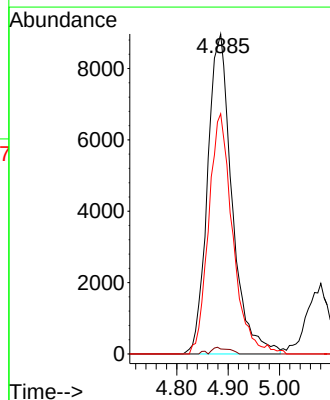
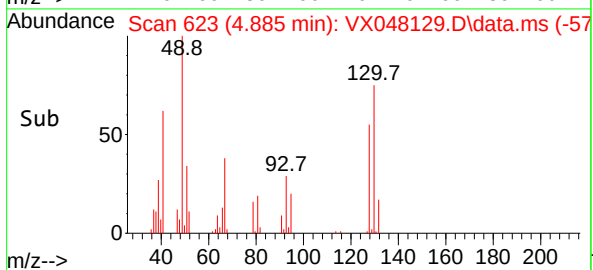
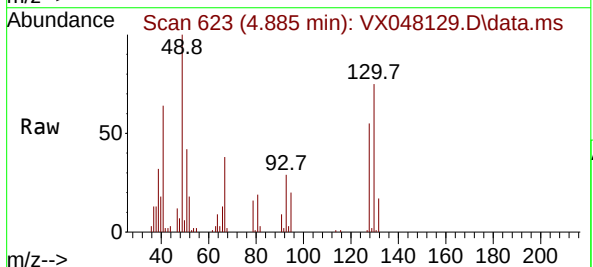
Tgt Ion: 49 Resp: 29675

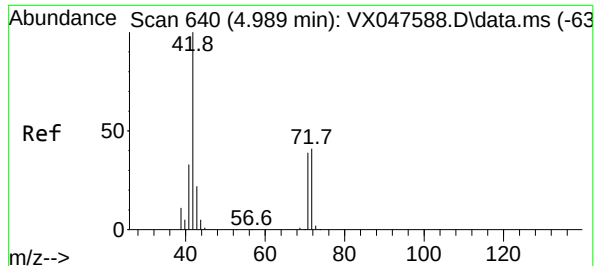
Ion Ratio Lower Upper

49 100

129 1.4 0.0 3.2

130 73.9 57.8 86.8





#29

Tetrahydrofuran

Concen: 77.654 ug/l

RT: 4.983 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion: 42 Resp: 59828

Ion Ratio Lower Upper

42 100

72 41.9 34.2 51.2

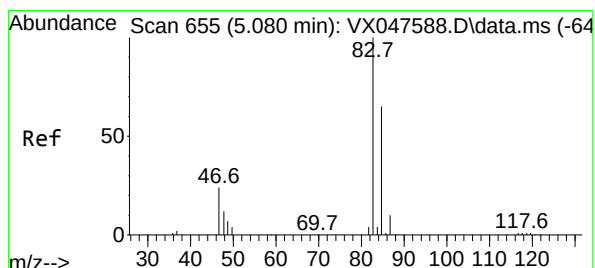
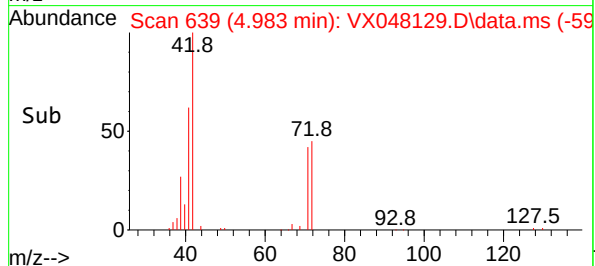
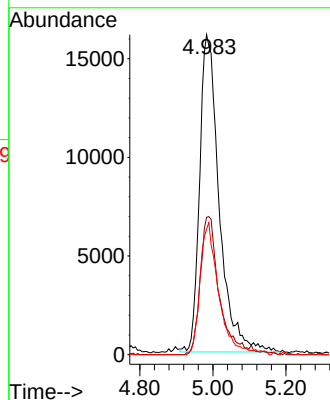
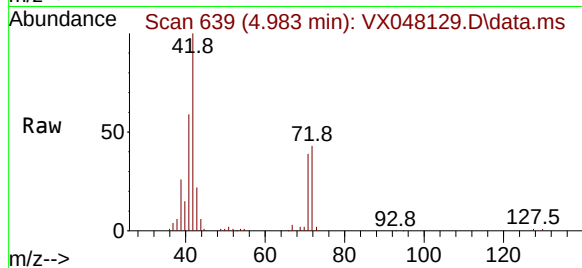
71 39.3 31.9 47.9

Manual Integrations

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Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#30

Chloroform

Concen: 19.131 ug/l

RT: 5.080 min Scan# 655

Delta R.T. -0.000 min

Lab File: VX048129.D

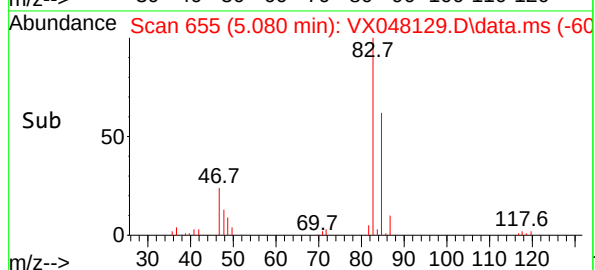
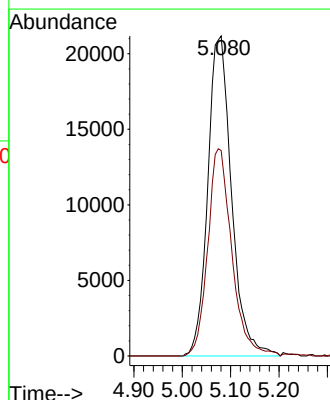
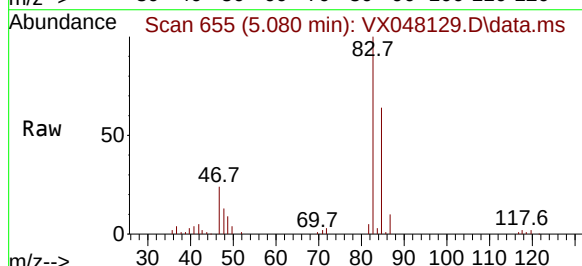
Acq: 13 Oct 2025 10:43

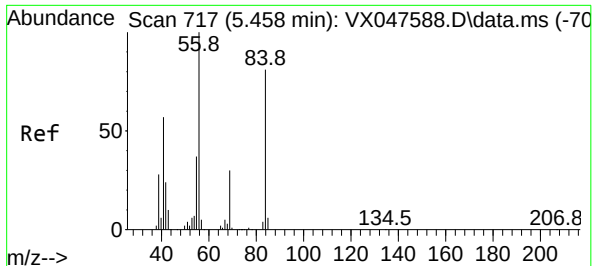
Tgt Ion: 83 Resp: 72428

Ion Ratio Lower Upper

83 100

85 64.2 51.8 77.6





#31

Cyclohexane

Concen: 19.614 ug/l

RT: 5.446 min Scan# 715

Delta R.T. -0.012 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion: 56 Resp: 6120

Ion Ratio Lower Upper

56 100

69 26.0 23.8 35.8

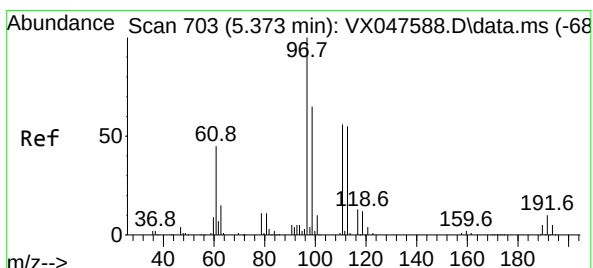
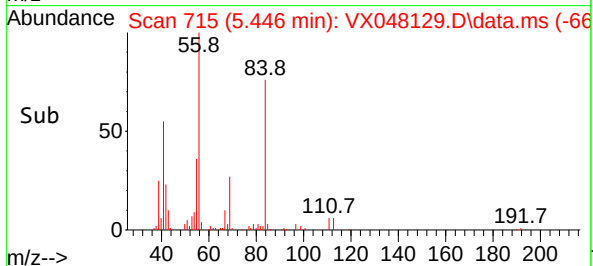
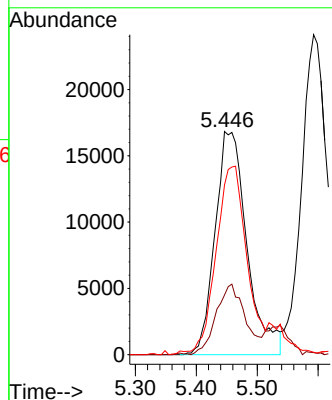
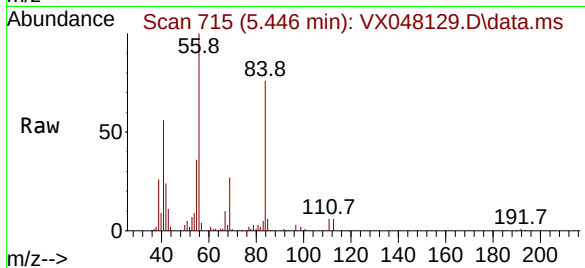
84 74.4 64.6 97.0

Manual Integrations

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Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#32

1,1,1-Trichloroethane

Concen: 19.493 ug/l

RT: 5.367 min Scan# 702

Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

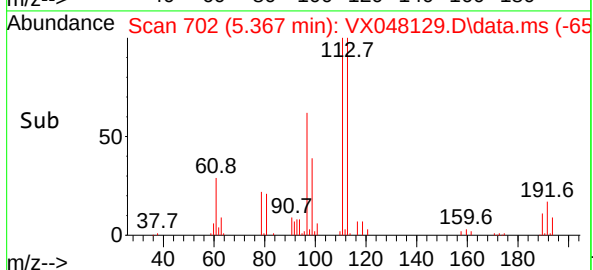
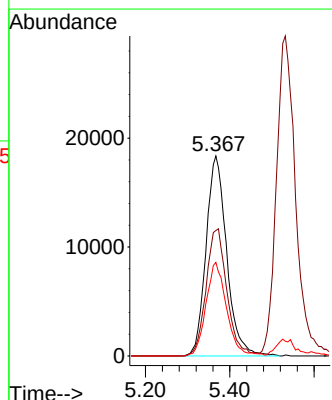
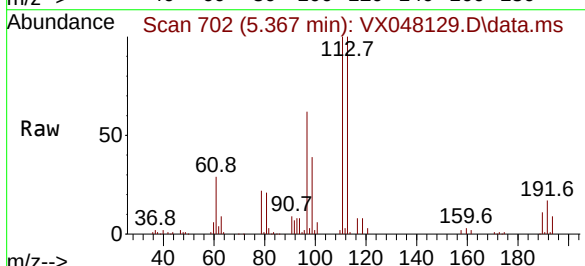
Tgt Ion: 97 Resp: 62598

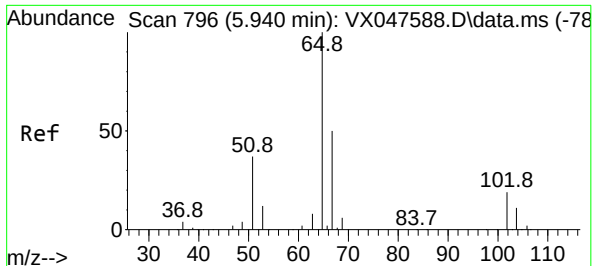
Ion Ratio Lower Upper

97 100

99 64.2 50.6 76.0

61 46.4 35.8 53.8





#33

1,2-Dichloroethane-d4

Concen: 50.551 ug/l

RT: 5.934 min Scan# 796

Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion: 65 Resp: 119369

Ion Ratio Lower Upper

65 100

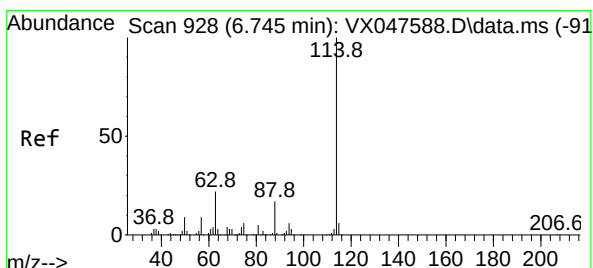
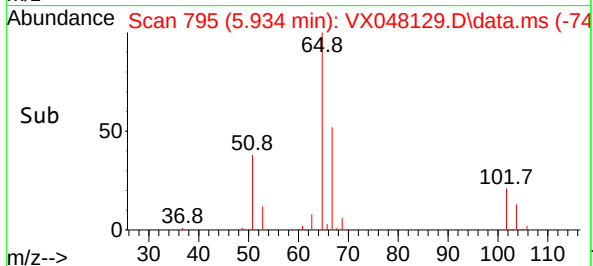
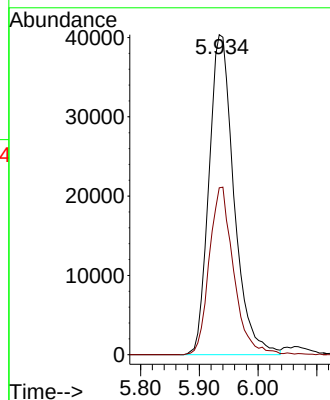
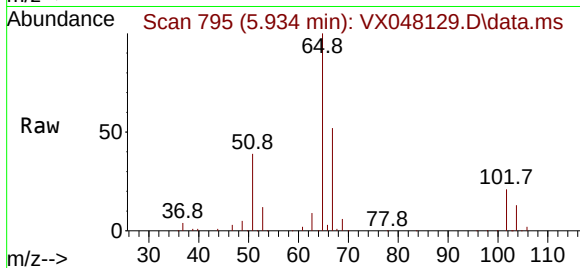
67 51.0 0.0 103.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.739 min Scan# 927

Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

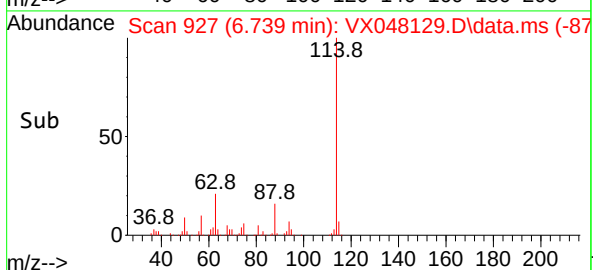
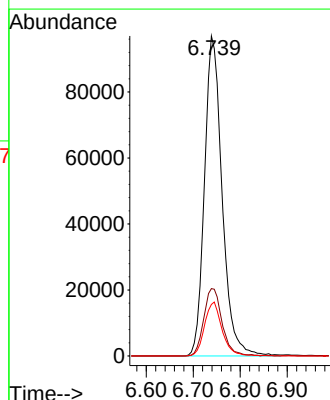
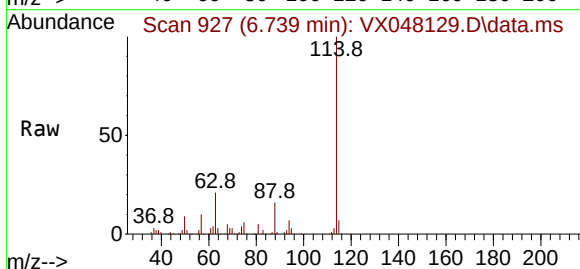
Tgt Ion:114 Resp: 252959

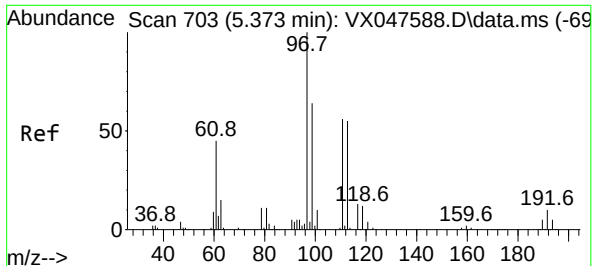
Ion Ratio Lower Upper

114 100

63 21.1 0.0 44.0

88 16.1 0.0 34.2





#35

Dibromofluoromethane

Concen: 55.581 ug/l

RT: 5.367 min Scan# 703

Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion:113 Resp: 9429

Ion Ratio Lower Upper

113 100

111 102.5 80.9 121.3

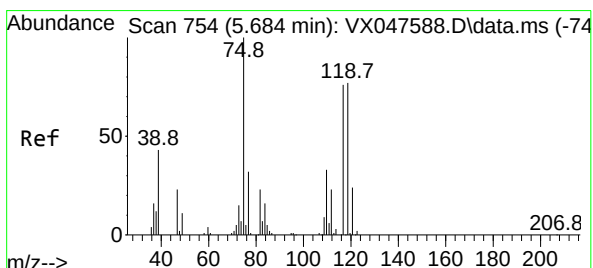
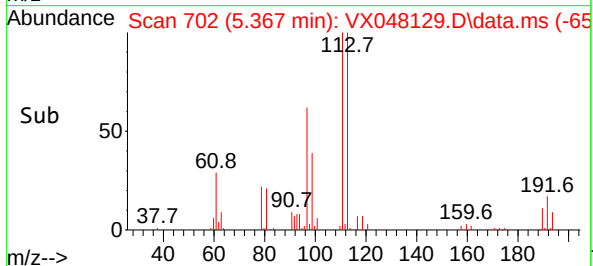
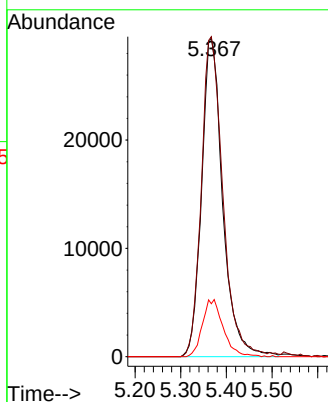
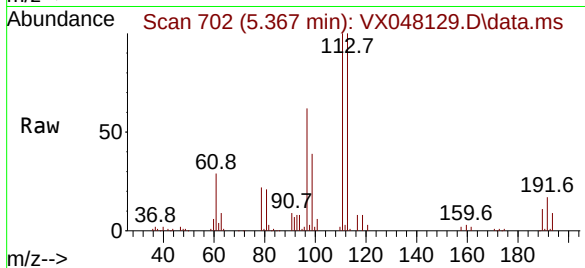
192 17.8 14.2 21.4

Manual Integrations

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Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#36

1,1-Dichloropropene

Concen: 19.525 ug/l

RT: 5.678 min Scan# 753

Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

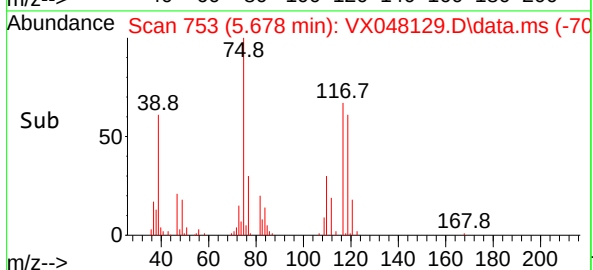
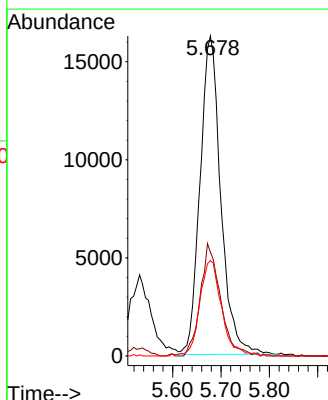
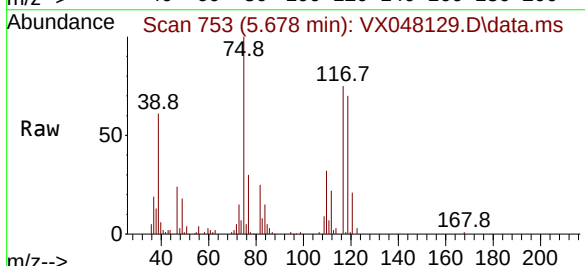
Tgt Ion: 75 Resp: 48401

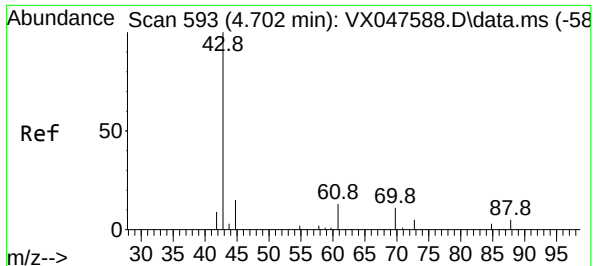
Ion Ratio Lower Upper

75 100

110 34.3 16.7 50.1

77 31.5 24.3 36.5





#37

Ethyl Acetate

Concen: 16.150 ug/l

RT: 4.690 min Scan# 591

Delta R.T. -0.012 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

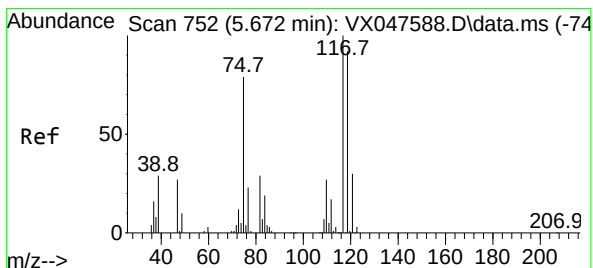
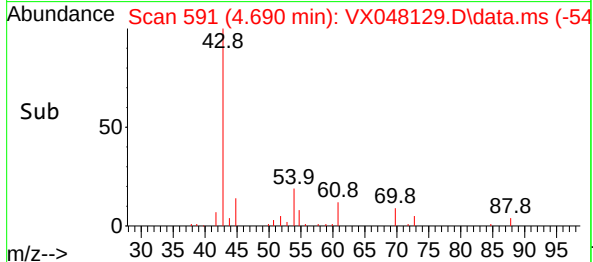
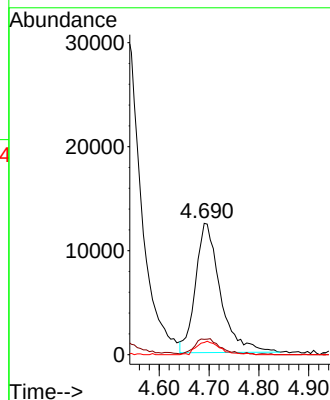
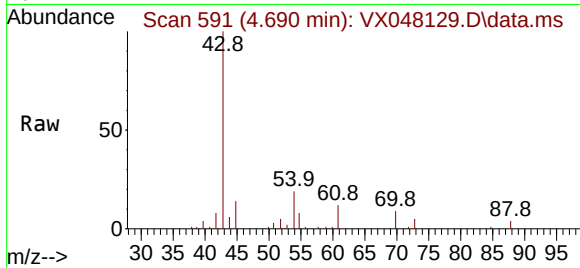
ClientSampleId :

VX1013WBS01

Tgt Ion:	43	Resp:	42860
Ion	Ratio	Lower	Upper
43	100		
61	11.2	9.8	14.8
70	9.6	7.9	11.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#38

Carbon Tetrachloride

Concen: 19.991 ug/l

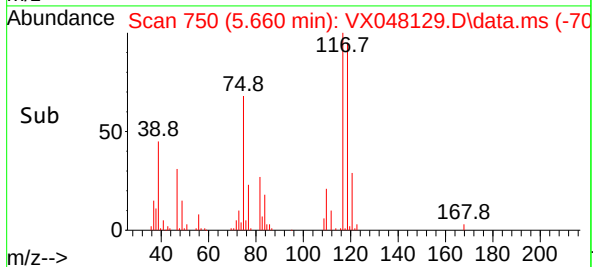
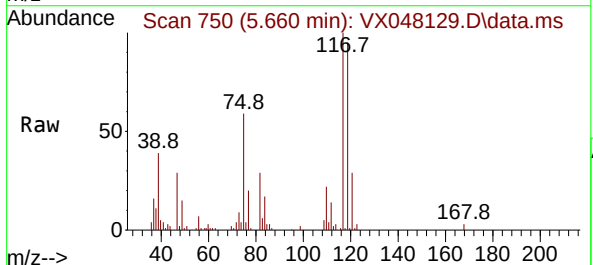
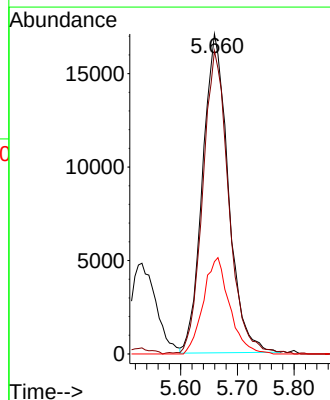
RT: 5.660 min Scan# 750

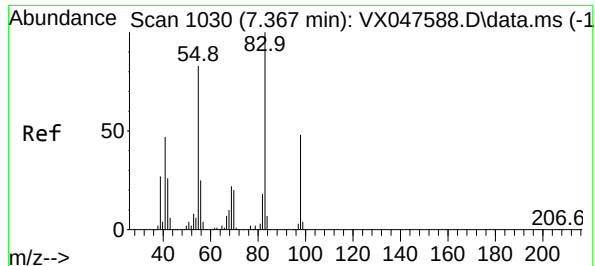
Delta R.T. -0.012 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Tgt Ion:	117	Resp:	53844
Ion	Ratio	Lower	Upper
117	100		
119	94.9	73.4	110.2
121	29.0	23.8	35.6





#39

Methylcyclohexane

Concen: 19.946 ug/l

RT: 7.367 min Scan# 1030

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

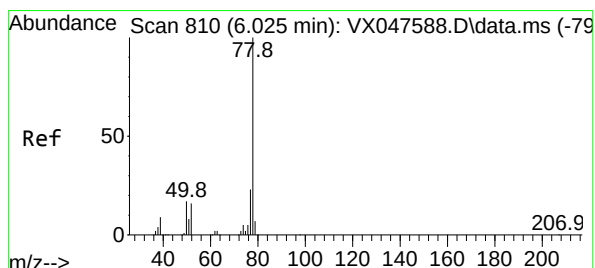
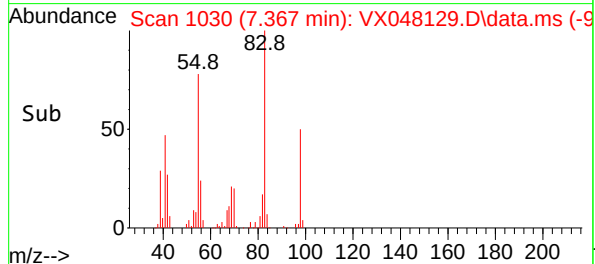
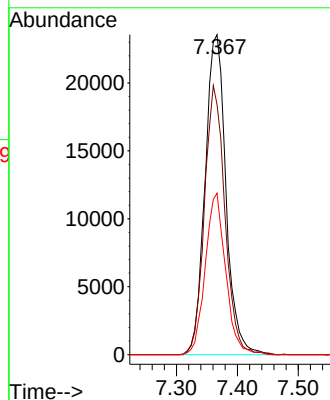
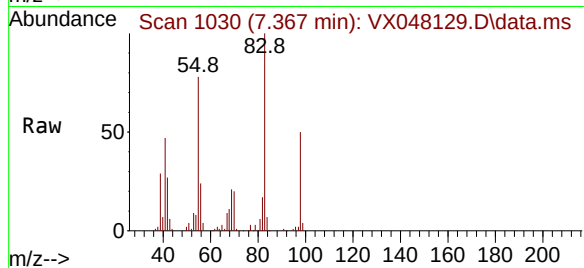
VX1013WBS01

Tgt Ion:	83	Resp:	5612
Ion	Ratio	Lower	Upper
83	100		
55	78.2	66.4	99.6
98	50.5	38.1	57.1

Manual Integrations
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Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#40

Benzene

Concen: 19.804 ug/l

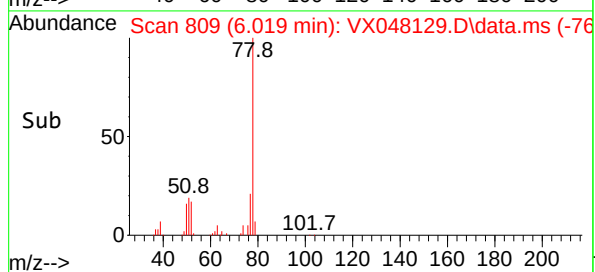
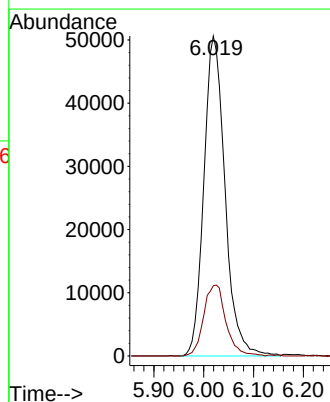
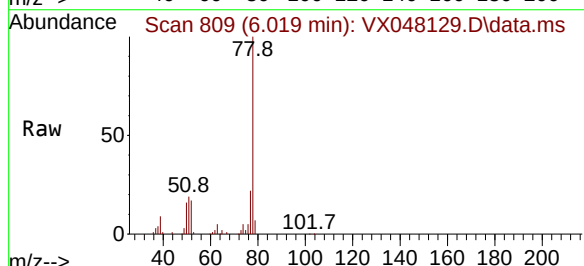
RT: 6.019 min Scan# 809

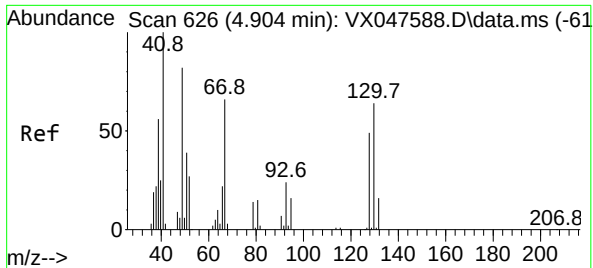
Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

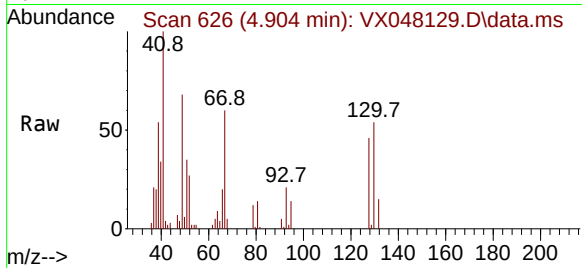
Tgt Ion:	78	Resp:	149106
Ion	Ratio	Lower	Upper
78	100		
77	22.0	18.8	28.2





#41
Methacrylonitrile
Concen: 16.733 ug/l
RT: 4.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

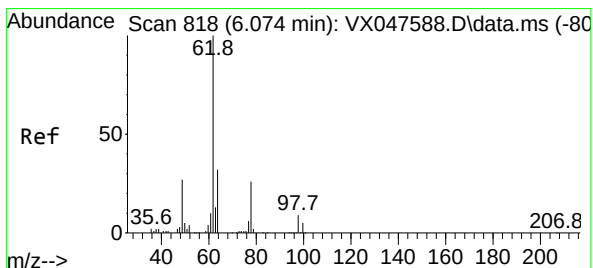
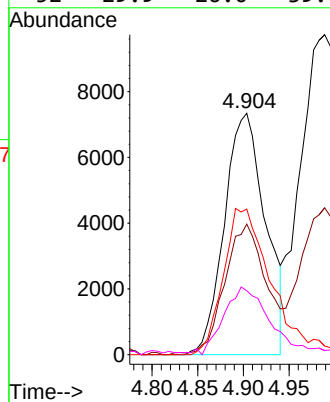
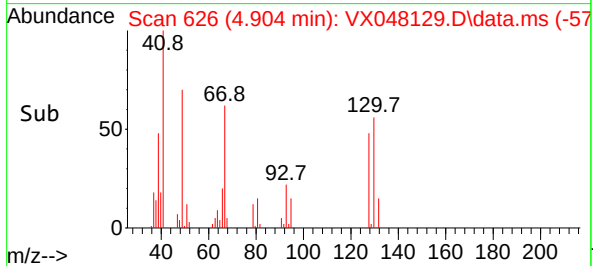
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01



Tgt Ion: 41 Resp: 22929
Ion Ratio Lower Upper
41 100
39 54.3 43.3 64.9
67 71.0 58.6 87.8
52 29.9 26.0 39.0

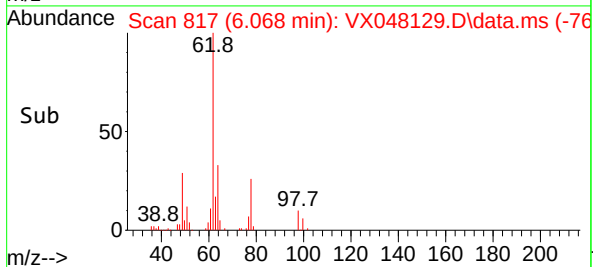
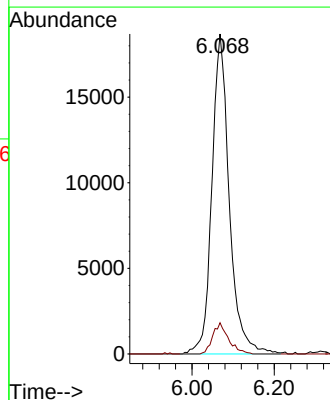
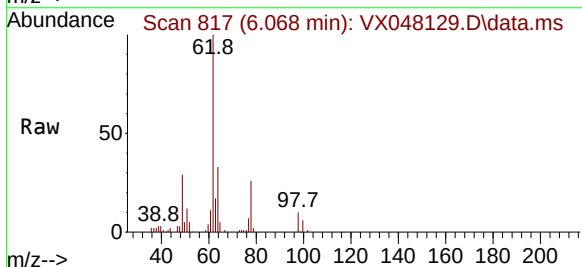
Manual Integrations
APPROVED

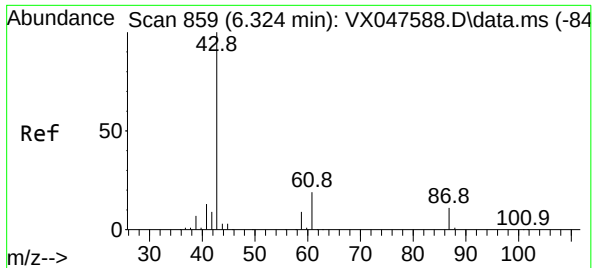
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#42
1,2-Dichloroethane
Concen: 19.138 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.006 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

Tgt Ion: 62 Resp: 54826
Ion Ratio Lower Upper
62 100
98 8.8 0.0 17.0





#43

Isopropyl Acetate

Concen: 16.252 ug/l

RT: 6.318 min Scan# 81

Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

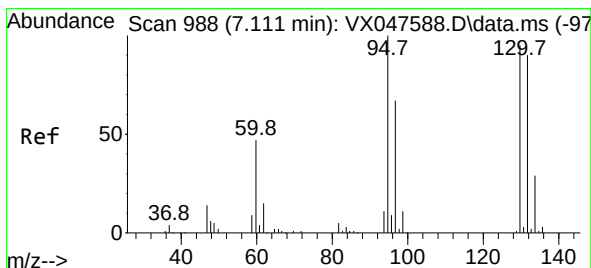
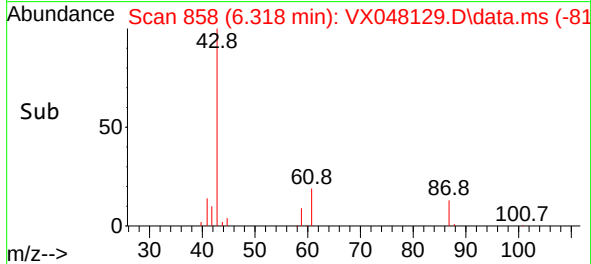
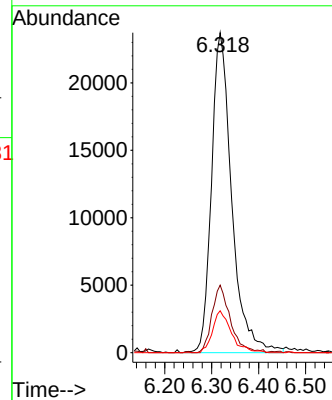
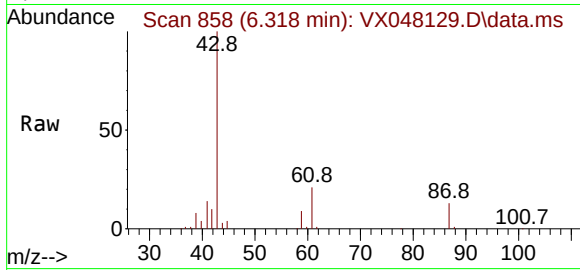
ClientSampleId :

VX1013WBS01

Tgt Ion:	43	Resp:	70749
Ion	Ratio	Lower	Upper
43	100		
61	19.2	15.2	22.8
87	12.2	9.6	14.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#44

Trichloroethene

Concen: 20.156 ug/l

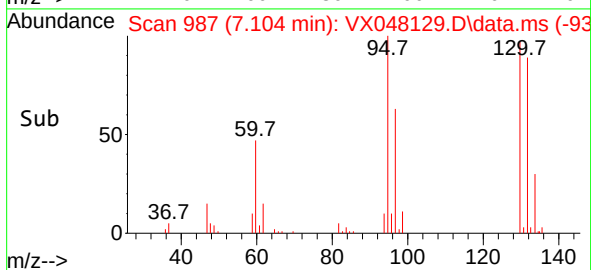
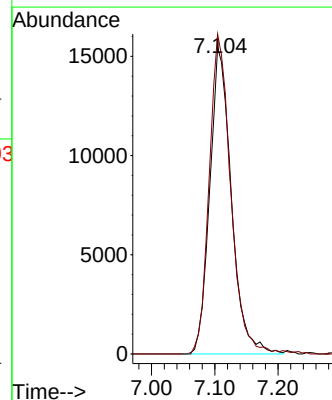
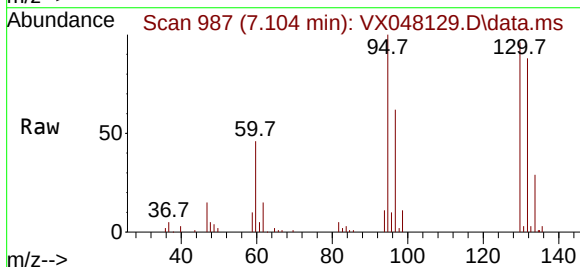
RT: 7.104 min Scan# 987

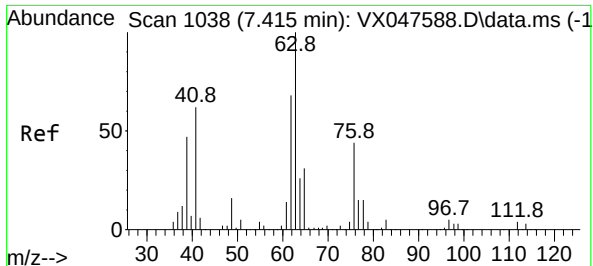
Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Tgt Ion:	130	Resp:	36689
Ion	Ratio	Lower	Upper
130	100		
95	104.3	0.0	210.8





#45

1,2-Dichloropropane

Concen: 19.521 ug/l

RT: 7.415 min Scan# 1038

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion: 63 Resp: 3763

Ion Ratio Lower Upper

63 100

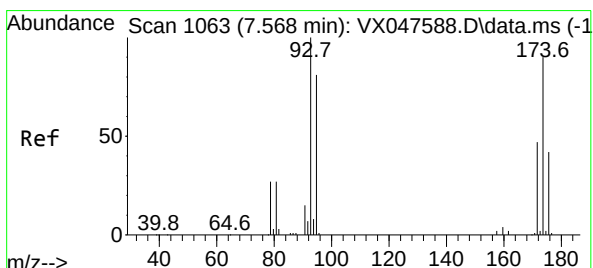
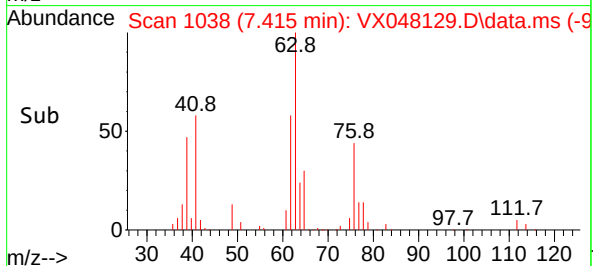
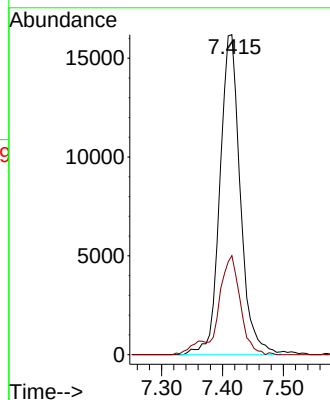
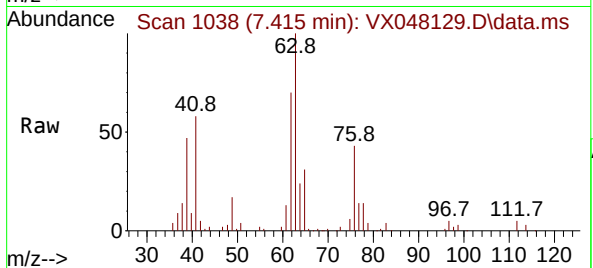
65 30.9 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#46

Dibromomethane

Concen: 19.199 ug/l

RT: 7.562 min Scan# 1062

Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

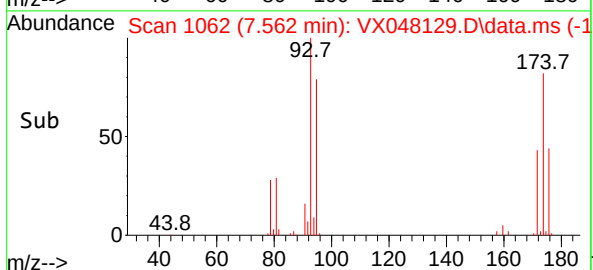
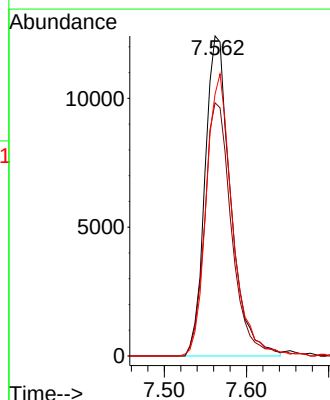
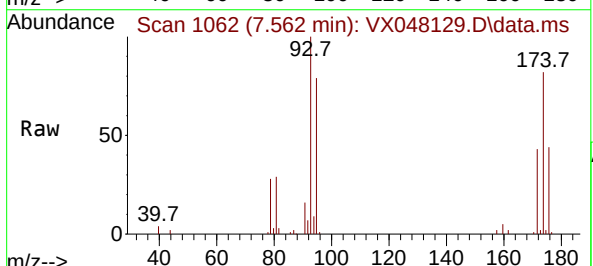
Tgt Ion: 93 Resp: 26936

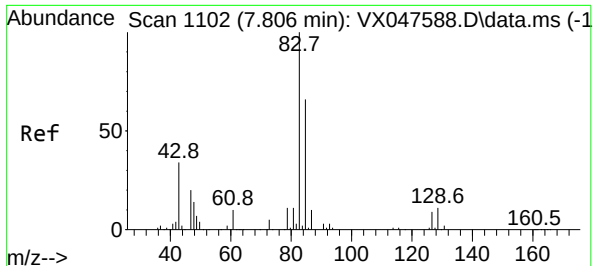
Ion Ratio Lower Upper

93 100

95 83.3 65.0 97.6

174 89.4 71.6 107.4





#47

Bromodichloromethane

Concen: 19.842 ug/l

RT: 7.806 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

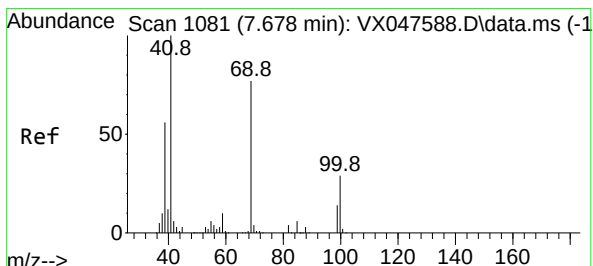
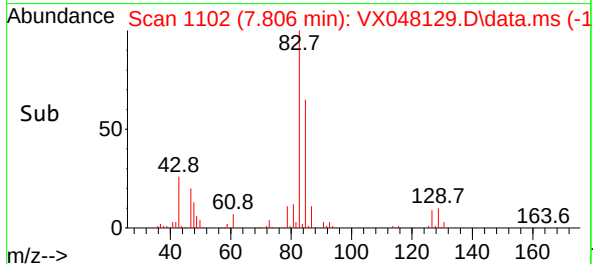
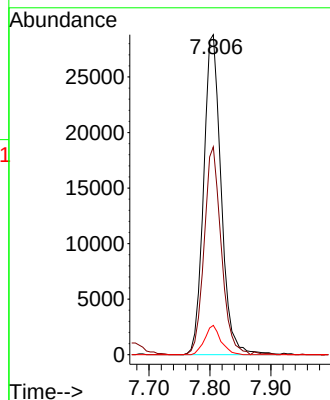
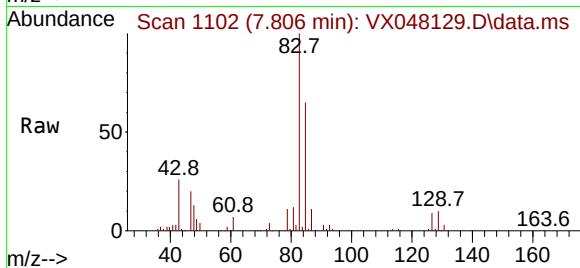
VX1013WBS01

Tgt Ion:	83	Resp:	5744
Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.5	78.7
127	9.1	6.9	10.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#48

Methyl methacrylate

Concen: 16.298 ug/l

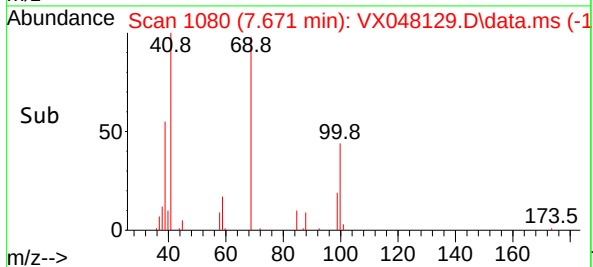
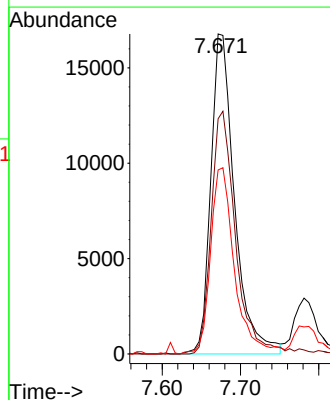
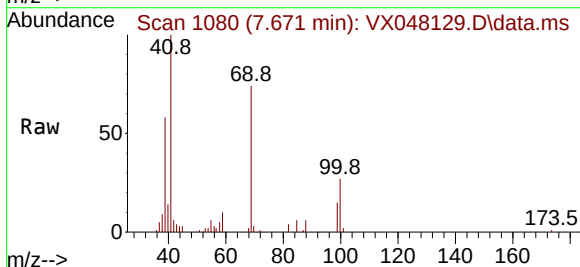
RT: 7.671 min Scan# 1080

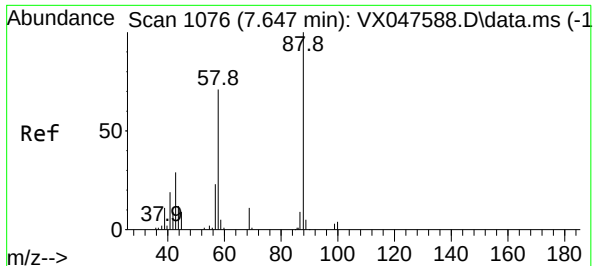
Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Tgt Ion:	41	Resp:	35340
Ion	Ratio	Lower	Upper
41	100		
69	77.4	61.4	92.2
39	58.9	45.8	68.6





#49

1,4-Dioxane

Concen: 354.348 ug/l

RT: 7.641 min Scan# 1076

Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion: 88 Resp: 776

Ion Ratio Lower Upper

88 100

43 42.6 30.2 45.2

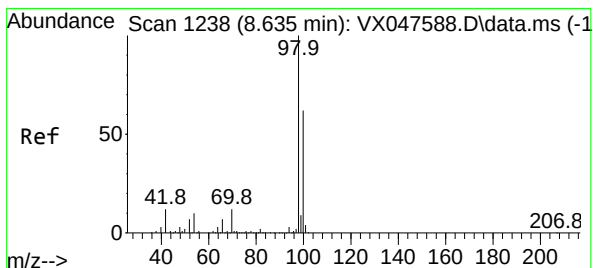
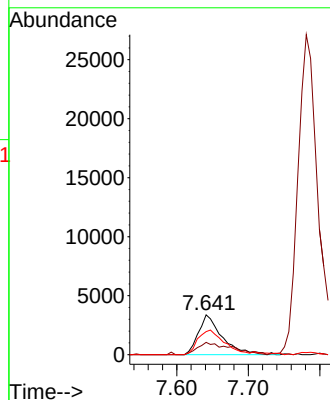
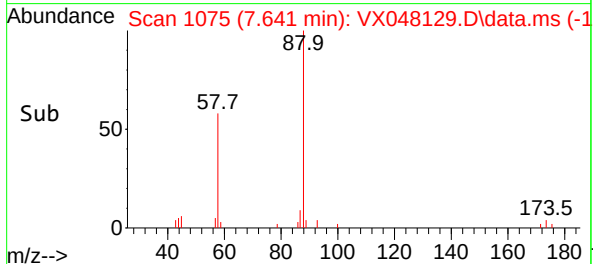
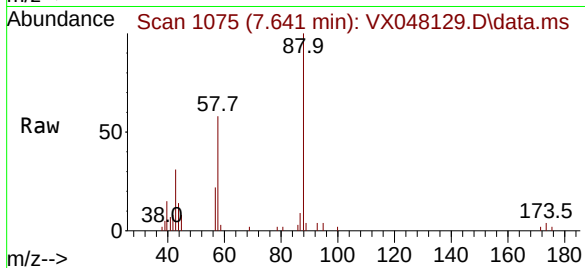
58 68.0 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#50

Toluene-d8

Concen: 53.852 ug/l

RT: 8.629 min Scan# 1237

Delta R.T. -0.006 min

Lab File: VX048129.D

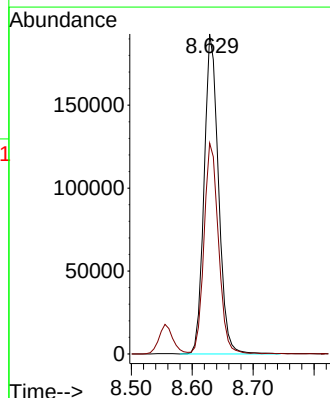
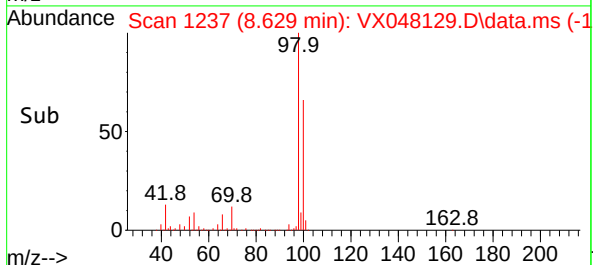
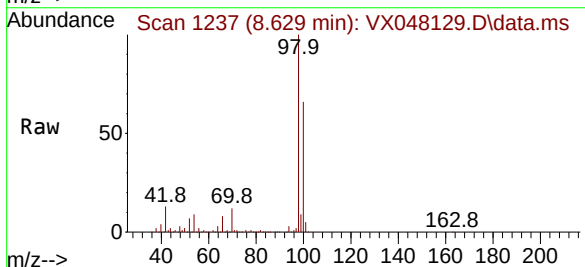
Acq: 13 Oct 2025 10:43

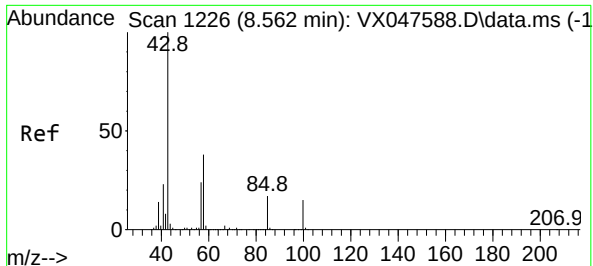
Tgt Ion: 98 Resp: 316122

Ion Ratio Lower Upper

98 100

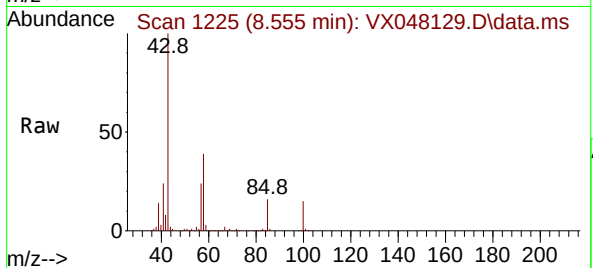
100 66.2 53.0 79.4





#51
4-Methyl-2-Pentanone
Concen: 83.089 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

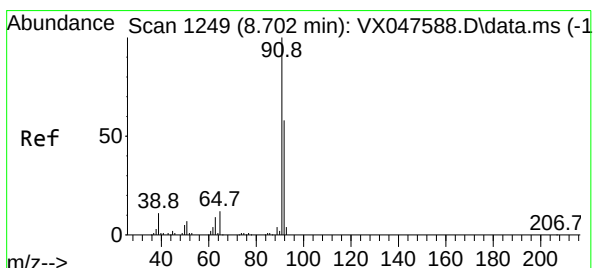
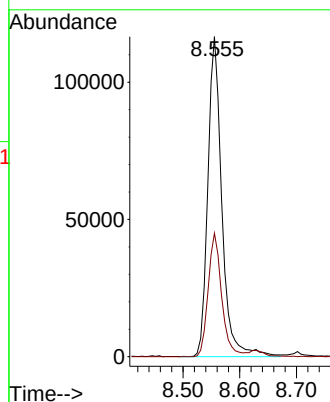
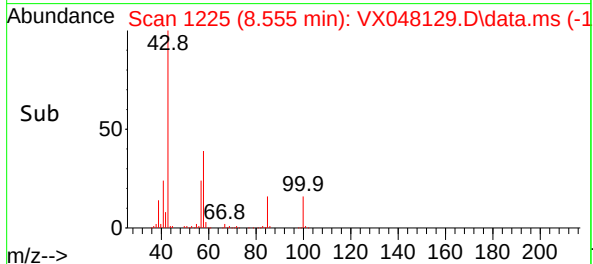
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01



Tgt Ion: 43 Resp: 20054
Ion Ratio Lower Upper
43 100
58 37.1 30.3 45.5

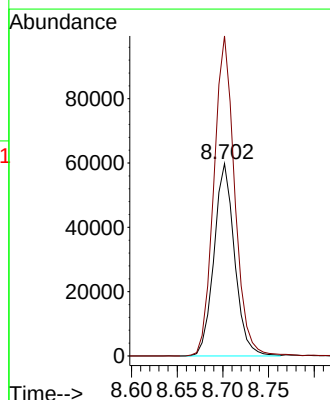
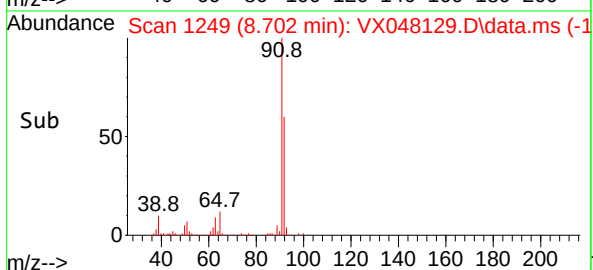
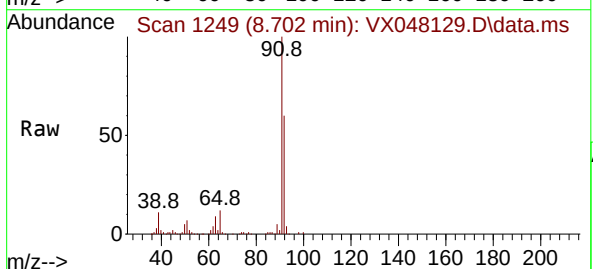
Manual Integrations
APPROVED

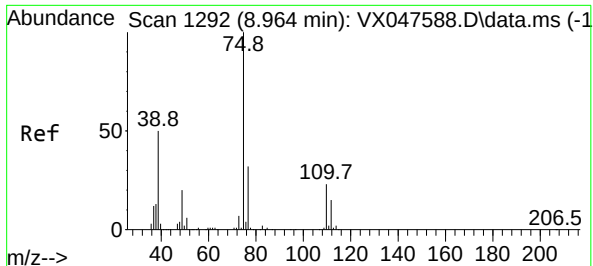
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#52
Toluene
Concen: 20.193 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

Tgt Ion: 92 Resp: 93668
Ion Ratio Lower Upper
92 100
91 168.4 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 18.602 ug/l

RT: 8.964 min Scan# 1191

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion: 75 Resp: 5493

Ion Ratio Lower Upper

75 100

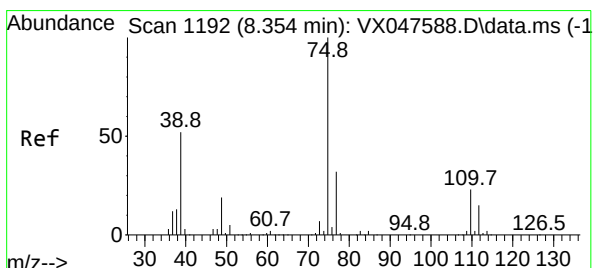
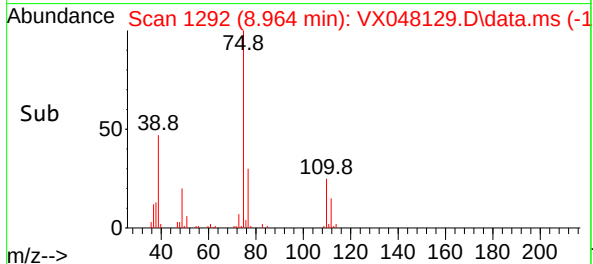
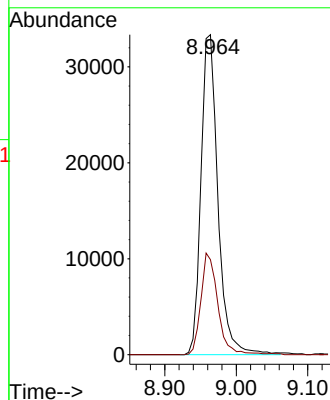
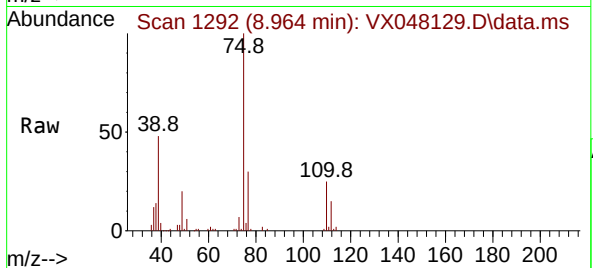
77 29.7 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#54

cis-1,3-Dichloropropene

Concen: 19.371 ug/l

RT: 8.348 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

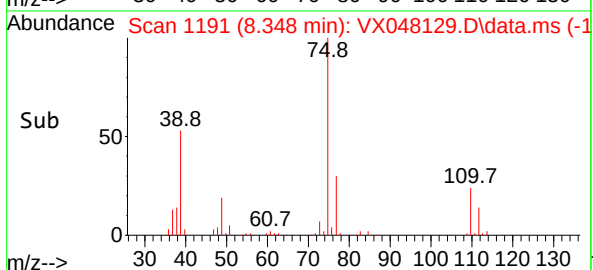
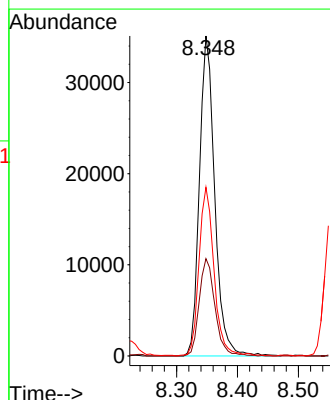
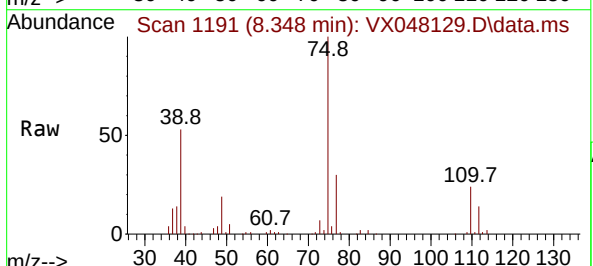
Tgt Ion: 75 Resp: 61143

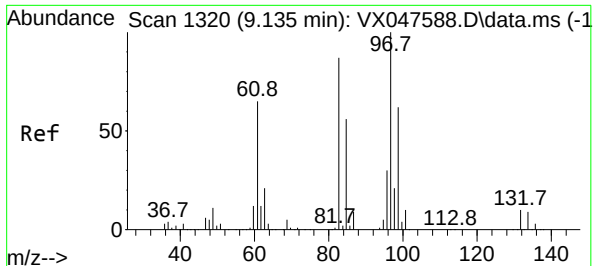
Ion Ratio Lower Upper

75 100

77 30.4 25.8 38.6

39 52.5 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 18.940 ug/l

RT: 9.135 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion: 97 Resp: 33878

Ion Ratio Lower Upper

97 100

83 85.8 69.6 104.4

85 55.8 45.0 67.6

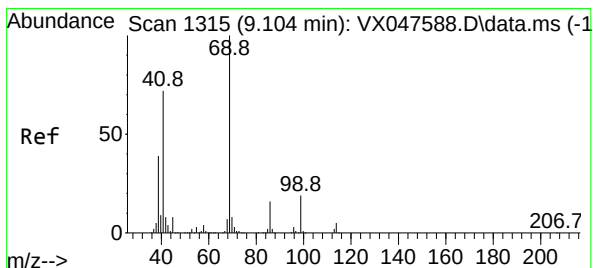
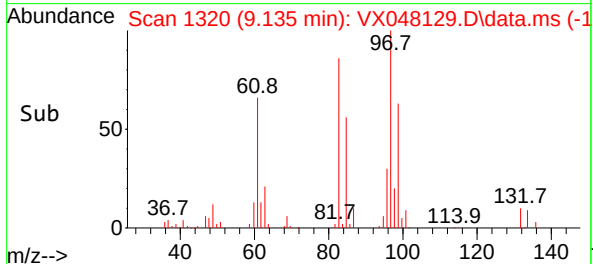
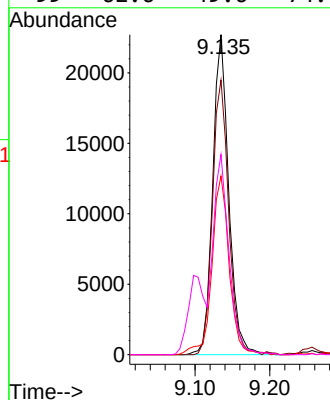
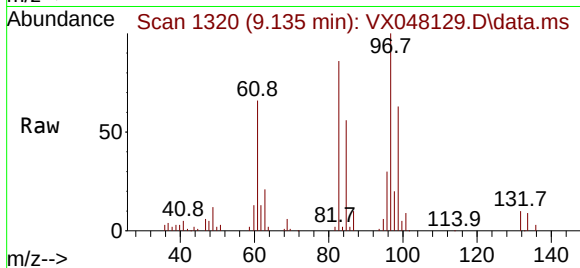
99 62.6 49.6 74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#56

Ethyl methacrylate

Concen: 17.284 ug/l

RT: 9.098 min Scan# 1314

Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

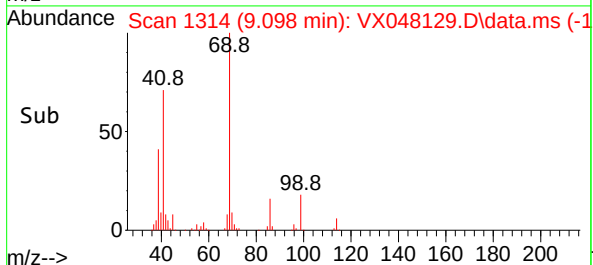
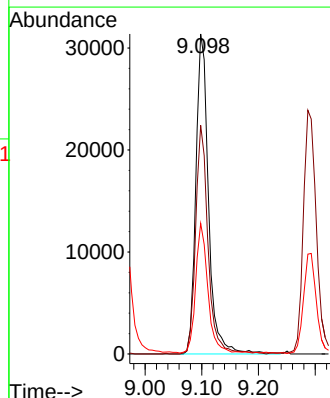
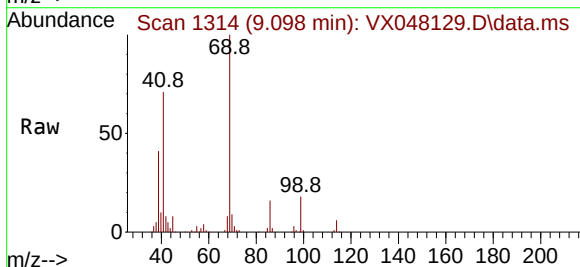
Tgt Ion: 69 Resp: 48553

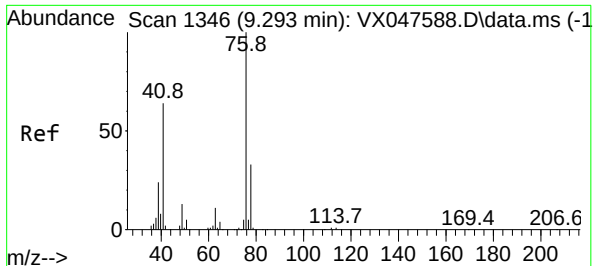
Ion Ratio Lower Upper

69 100

41 70.6 58.6 87.8

39 39.5 31.5 47.3





#57

1,3-Dichloropropane

Concen: 19.491 ug/l

RT: 9.293 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion: 76 Resp: 59890

Ion Ratio Lower Upper

76 100

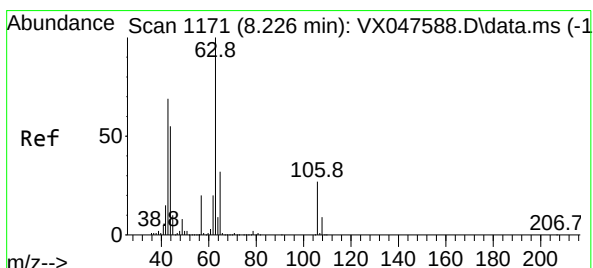
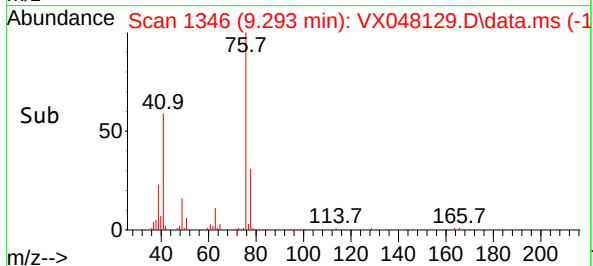
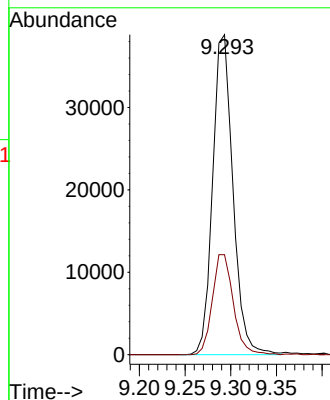
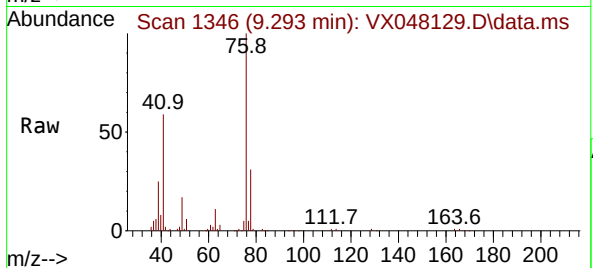
78 32.3 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#58

2-Chloroethyl Vinyl ether

Concen: 91.363 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX048129.D

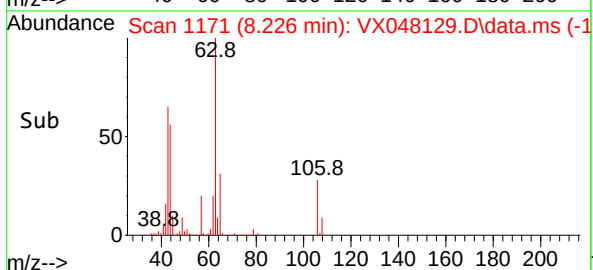
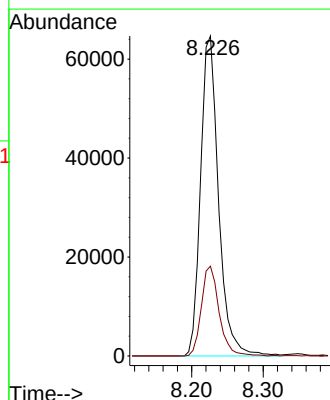
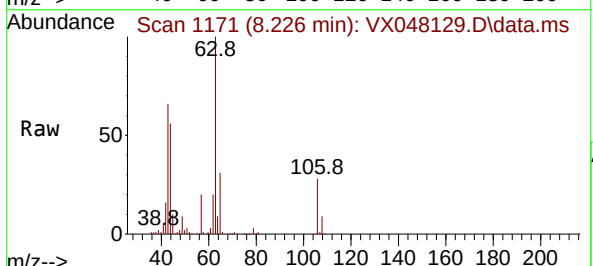
Acq: 13 Oct 2025 10:43

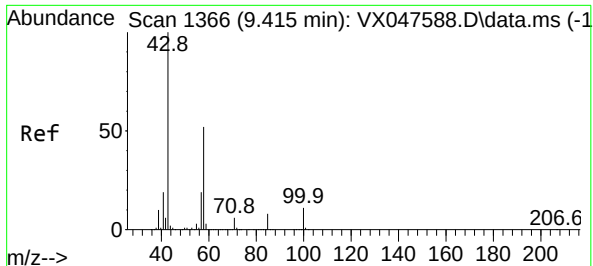
Tgt Ion: 63 Resp: 112855

Ion Ratio Lower Upper

63 100

106 27.7 21.9 32.9





#59

2-Hexanone

Concen: 81.242 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion: 43 Resp: 140828

Ion Ratio Lower Upper

43

100

58

52.8

26.1

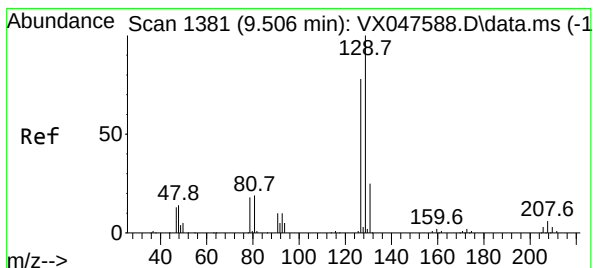
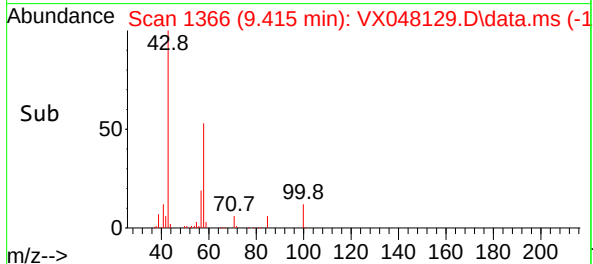
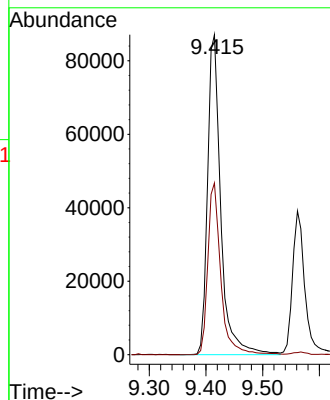
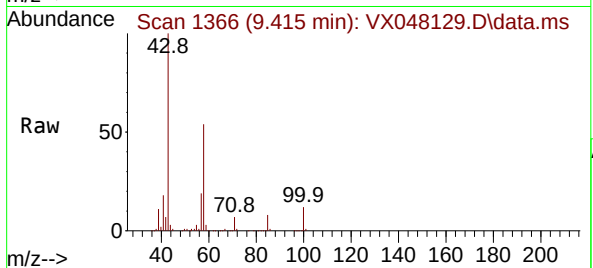
78.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#60

Dibromochloromethane

Concen: 20.123 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Tgt Ion:129 Resp: 41473

Ion Ratio Lower Upper

129

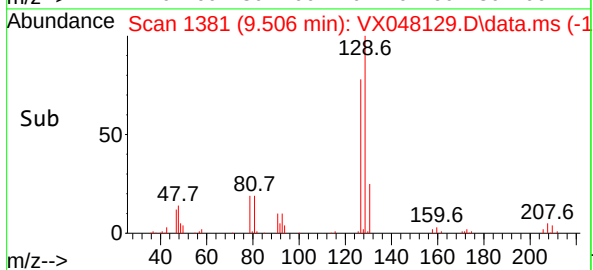
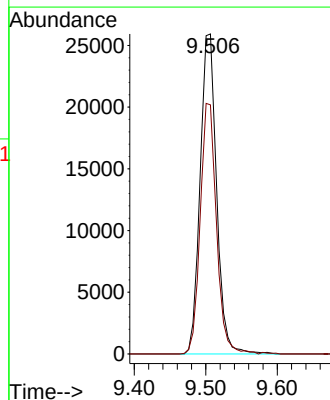
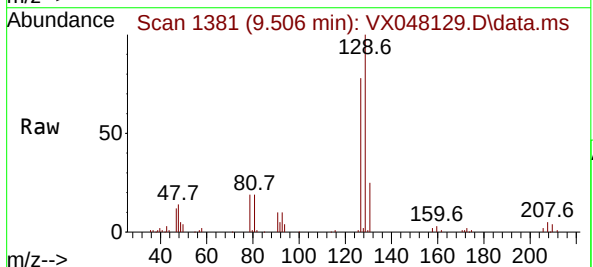
100

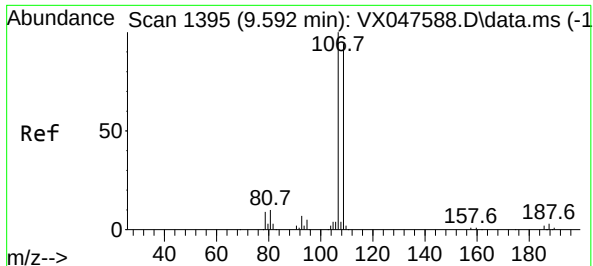
127

77.3

38.4

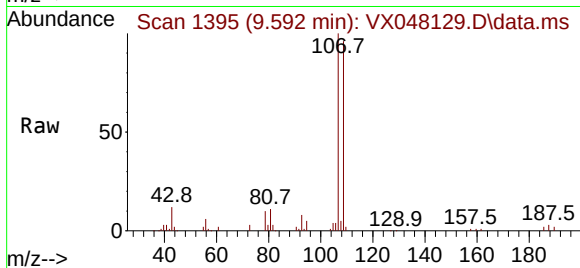
115.2





#61
1,2-Dibromoethane
Concen: 19.726 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

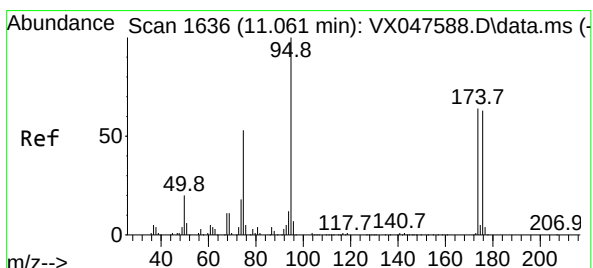
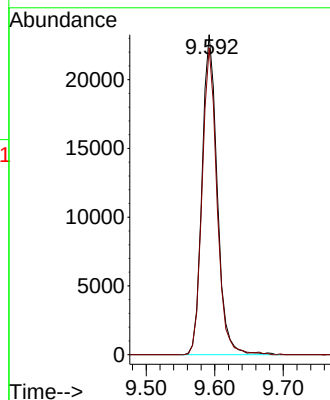
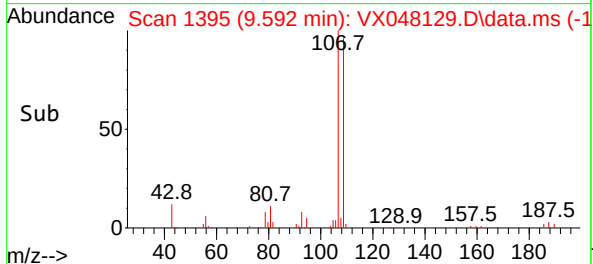
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01



Tgt Ion:107 Resp: 35938
Ion Ratio Lower Upper
107 100
109 93.9 75.3 112.9

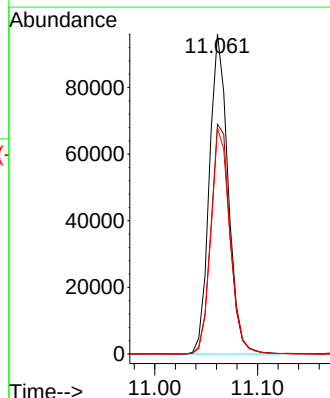
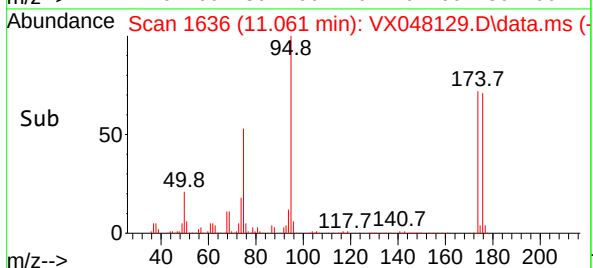
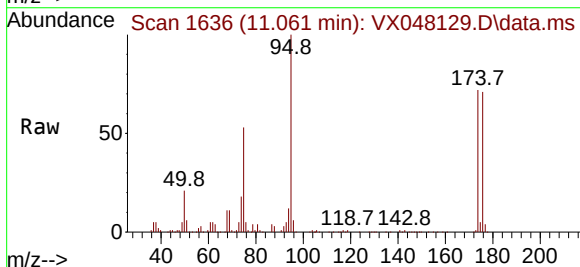
Manual Integrations
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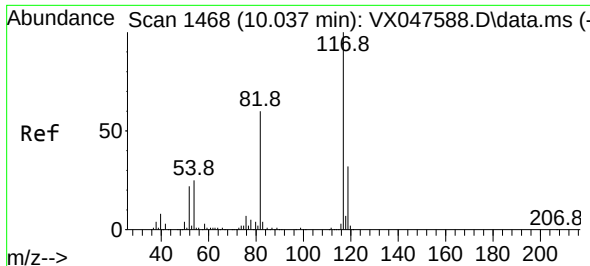
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#62
4-Bromofluorobenzene
Concen: 54.774 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

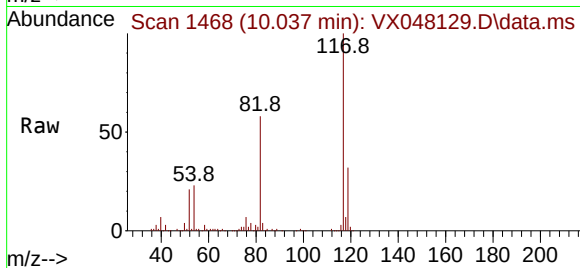
Tgt Ion: 95 Resp: 122028
Ion Ratio Lower Upper
95 100
174 73.2 0.0 141.6
176 71.4 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

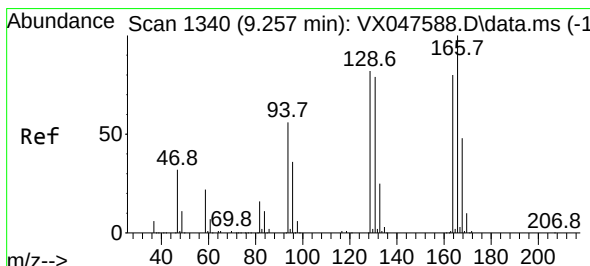
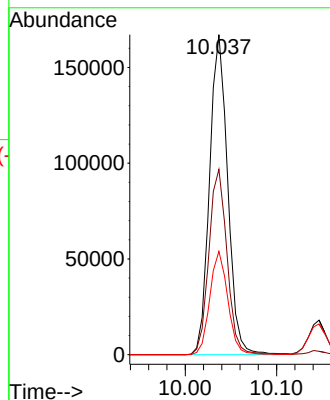
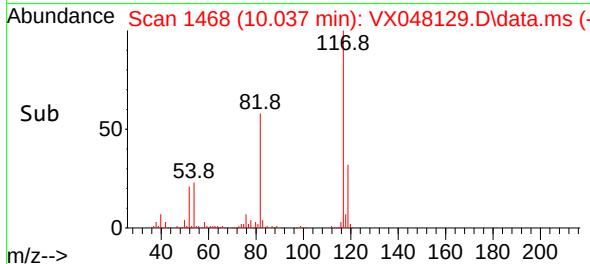
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01



Tgt Ion:117 Resp: 22988
Ion Ratio Lower Upper
117 100
82 57.9 47.8 71.6
119 32.3 25.2 37.8

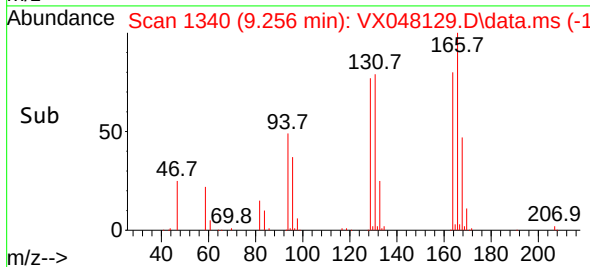
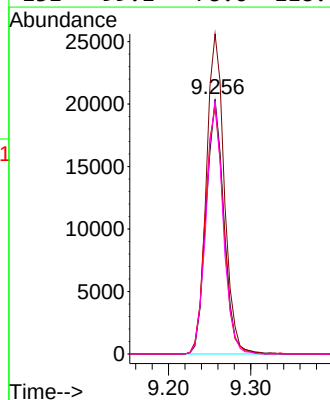
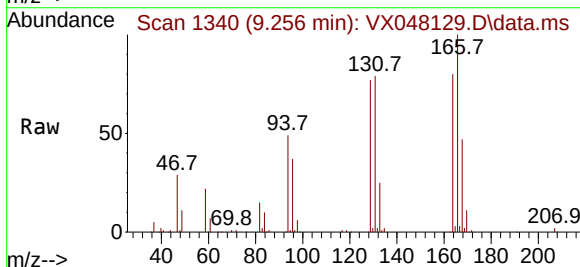
Manual Integrations
APPROVED

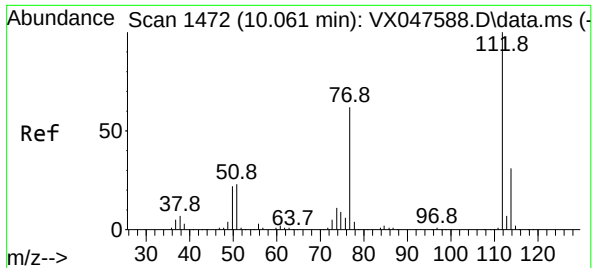
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#64
Tetrachloroethene
Concen: 20.436 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

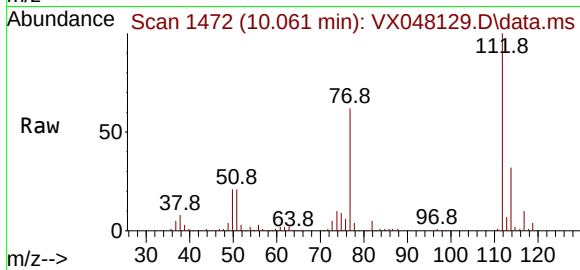
Tgt Ion:164 Resp: 30626
Ion Ratio Lower Upper
164 100
166 125.7 100.2 150.2
129 96.5 81.8 122.6
131 99.1 78.6 118.0





#65
Chlorobenzene
Concen: 19.501 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

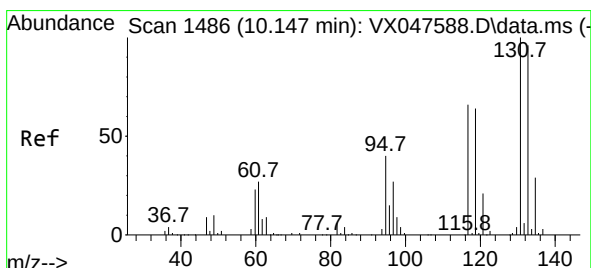
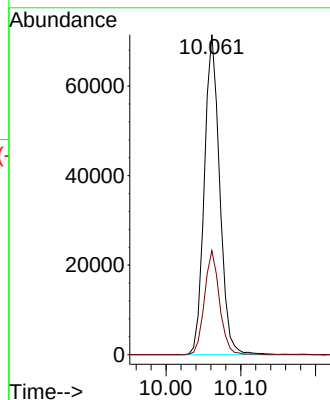
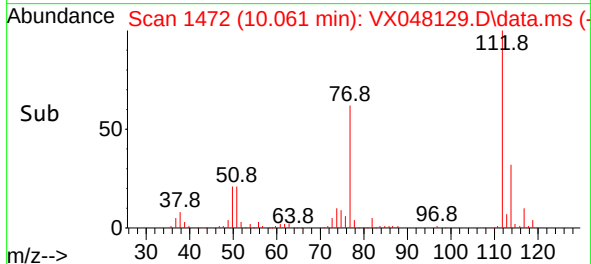
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01



Tgt Ion:112 Resp: 10184
Ion Ratio Lower Upper
112 100
114 32.5 25.1 37.7

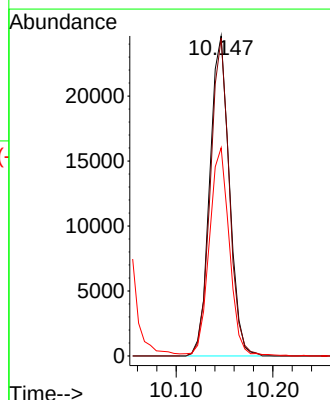
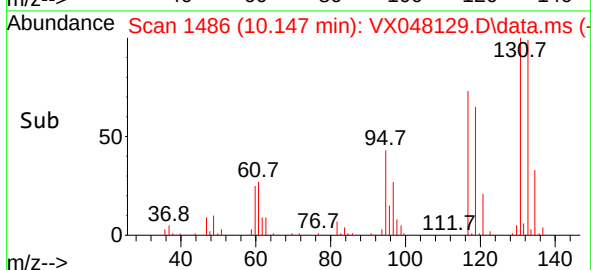
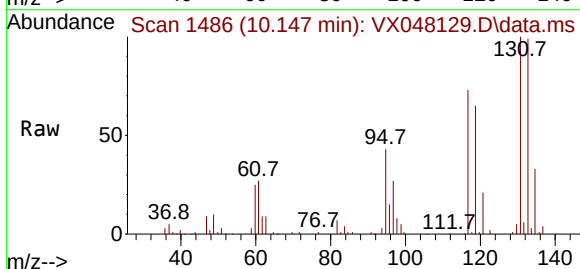
Manual Integrations
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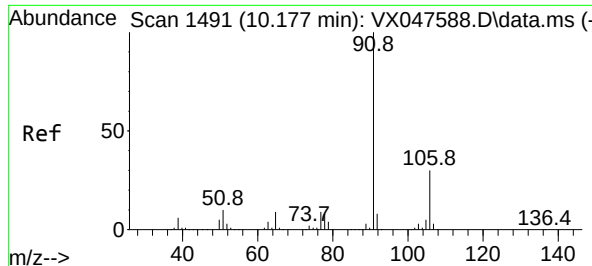
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 19.163 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

Tgt Ion:131 Resp: 34535
Ion Ratio Lower Upper
131 100
133 95.8 47.3 142.0
119 66.7 32.0 96.0





#67

Ethyl Benzene

Concen: 19.238 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion: 91 Resp: 17335

Ion Ratio Lower Upper

91 100

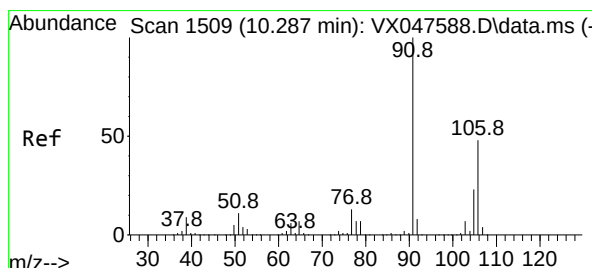
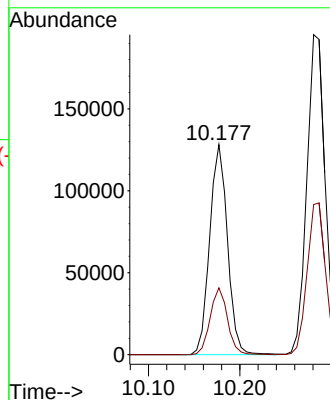
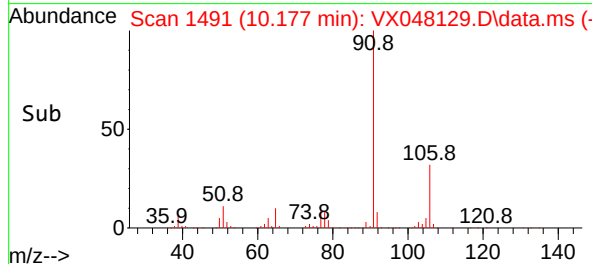
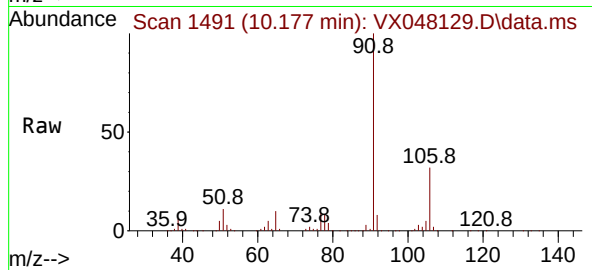
106 31.8 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#68

m/p-Xylenes

Concen: 39.436 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX048129.D

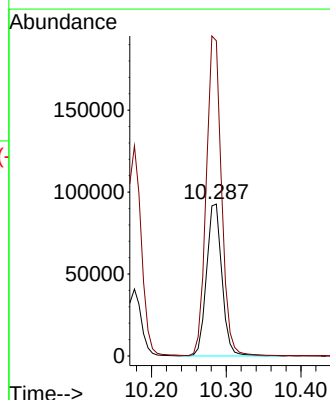
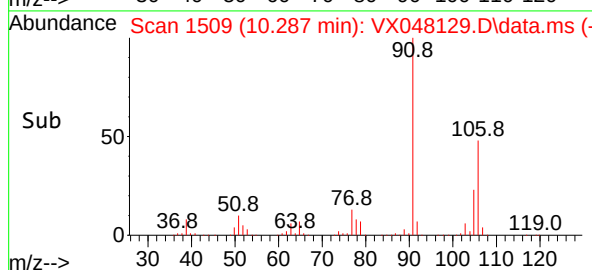
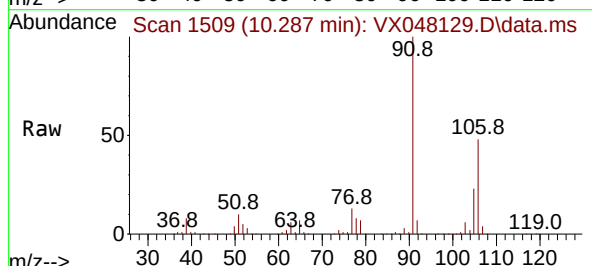
Acq: 13 Oct 2025 10:43

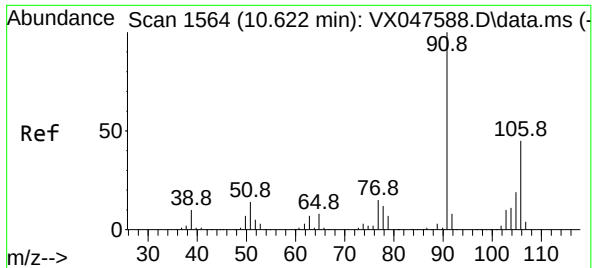
Tgt Ion:106 Resp: 132267

Ion Ratio Lower Upper

106 100

91 209.0 167.8 251.8





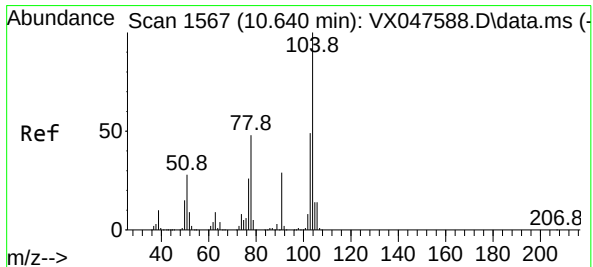
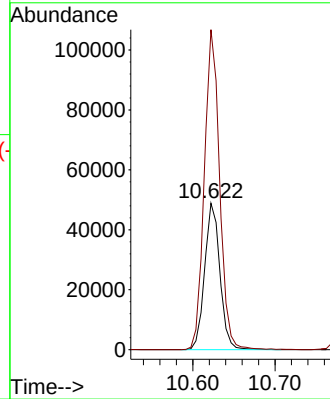
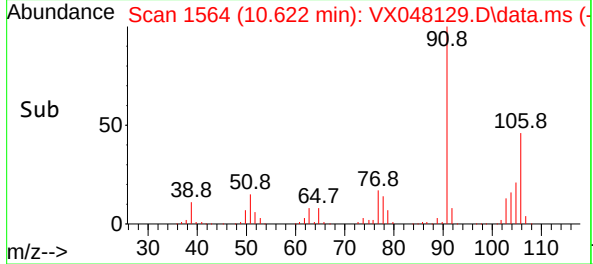
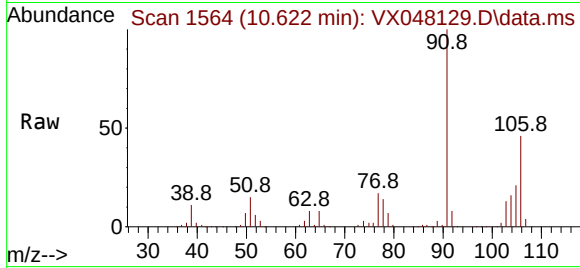
#69
o-Xylene
Concen: 19.418 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01

Tgt Ion:106 Resp: 6299
Ion Ratio Lower Upper
106 100
91 219.4 111.1 333.4

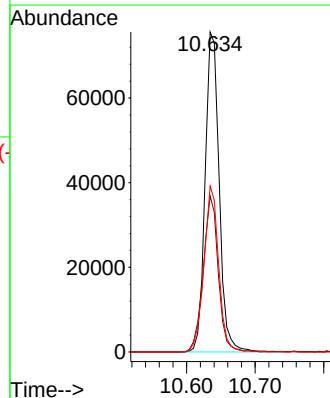
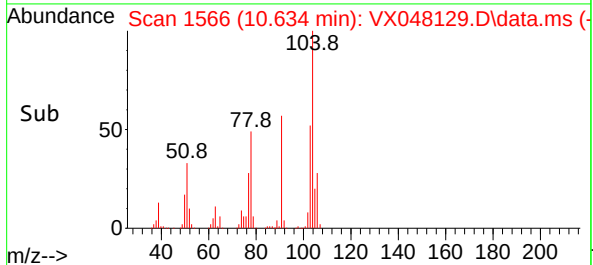
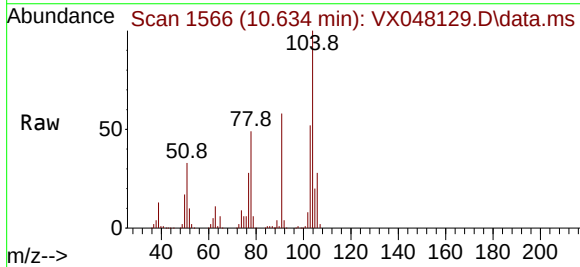
Manual Integrations
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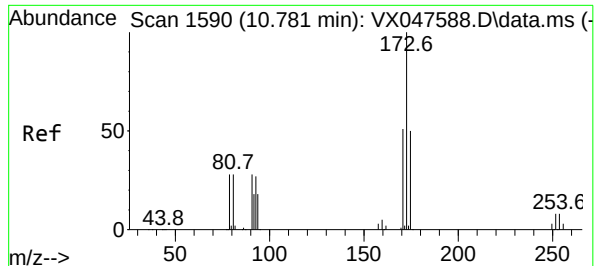
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#70
Styrene
Concen: 19.029 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

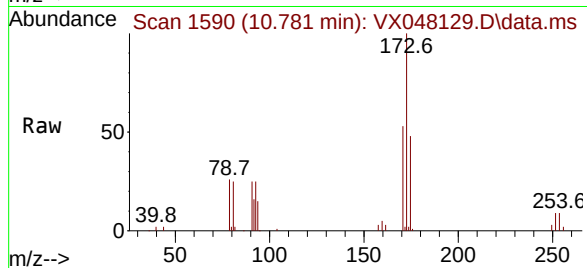
Tgt Ion:104 Resp: 108165
Ion Ratio Lower Upper
104 100
78 52.0 43.1 64.7
103 54.4 43.1 64.7





#71
Bromoform
Concen: 19.639 ug/l
RT: 10.781 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

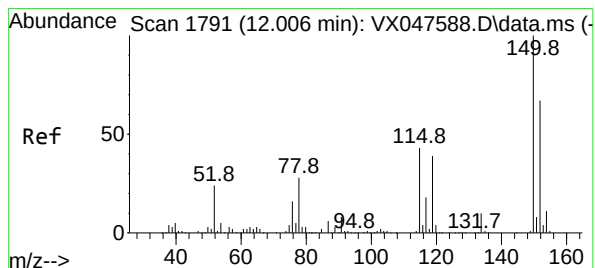
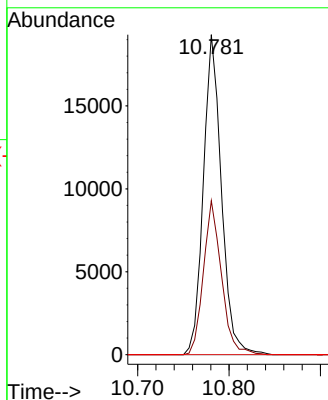
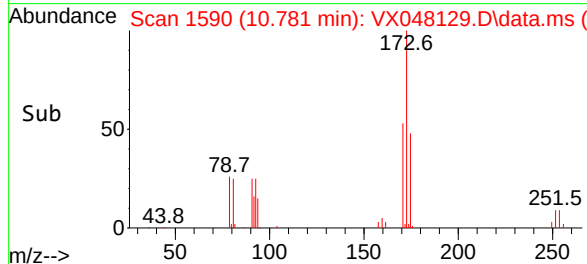
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01



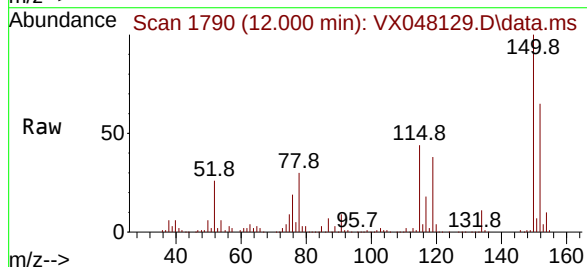
Tgt Ion:173 Resp: 2642
Ion Ratio Lower Upper
173 100
175 48.0 24.9 74.6
254 0.0 0.1 0.1

Manual Integrations
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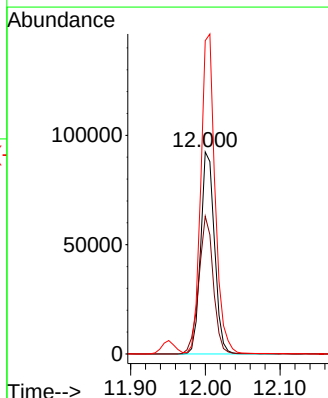
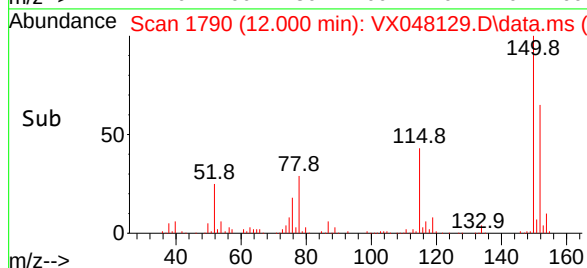
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

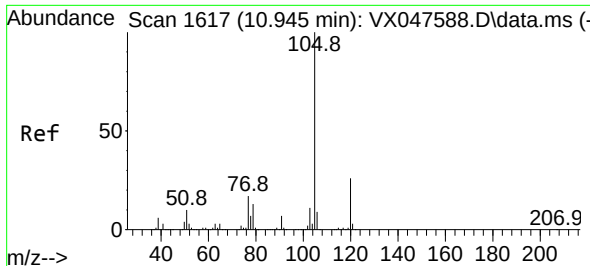


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.000 min Scan# 1790
Delta R.T. -0.006 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43



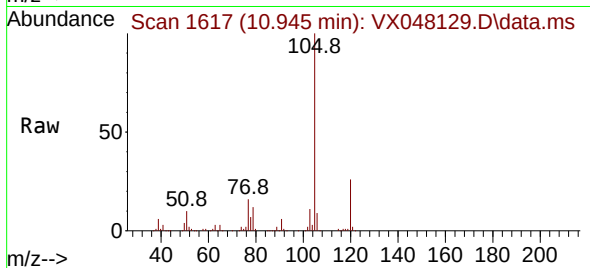
Tgt Ion:152 Resp: 119033
Ion Ratio Lower Upper
152 100
115 70.8 44.9 134.5
150 163.4 0.0 352.0





#73
Isopropylbenzene
Concen: 17.970 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

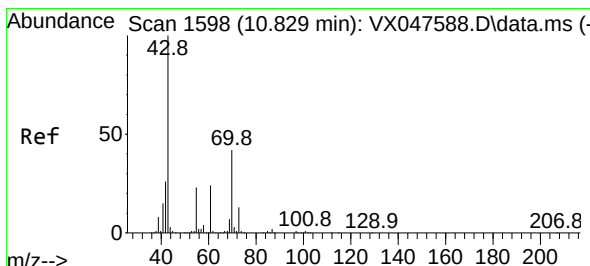
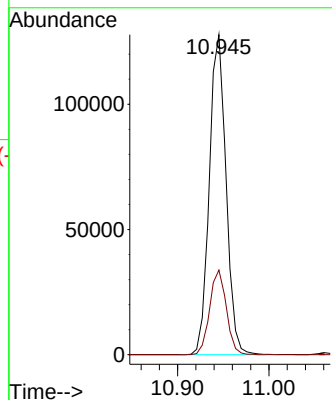
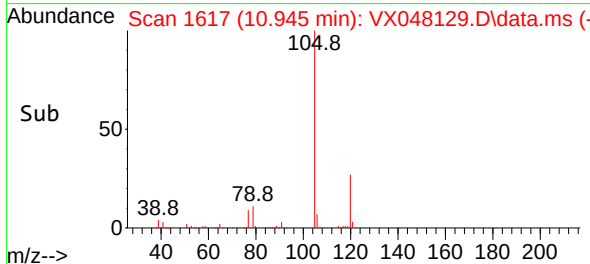
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01



Tgt Ion:105 Resp: 162619
Ion Ratio Lower Upper
105 100
120 26.3 12.8 38.4

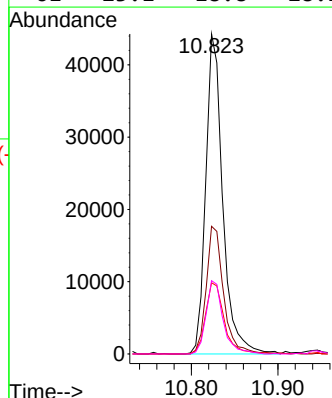
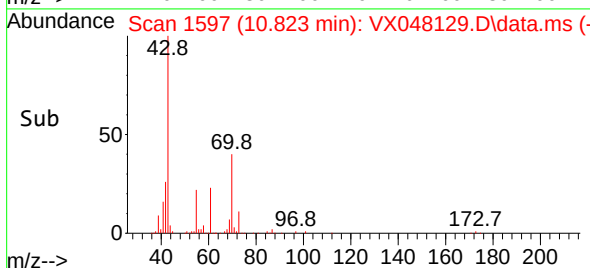
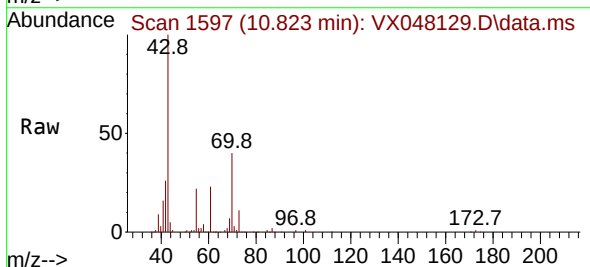
Manual Integrations
APPROVED

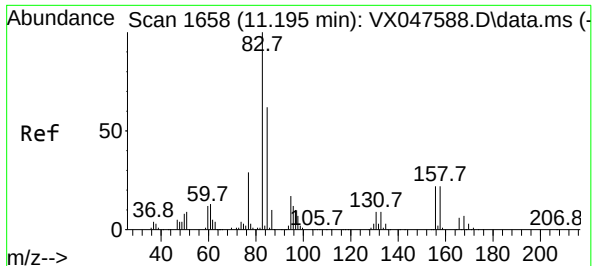
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#74
N-ethyl acetate
Concen: 14.613 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.006 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

Tgt Ion: 43 Resp: 60305
Ion Ratio Lower Upper
43 100
70 41.0 32.0 48.0
55 24.5 18.9 28.3
61 23.1 18.8 28.2





#75

1,1,2,2-Tetrachloroethane

Concen: 16.865 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

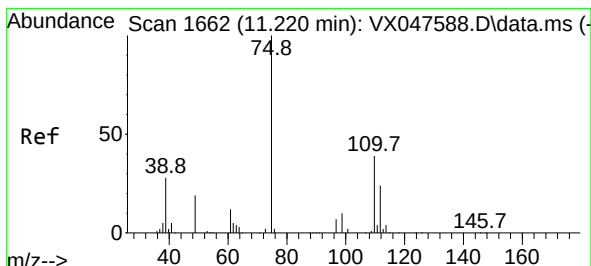
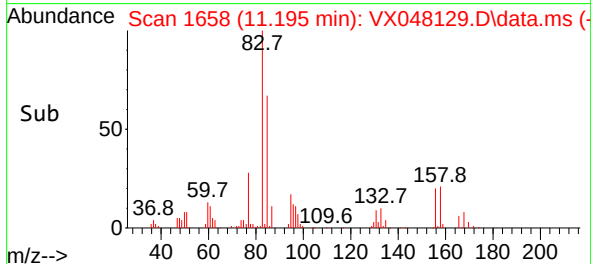
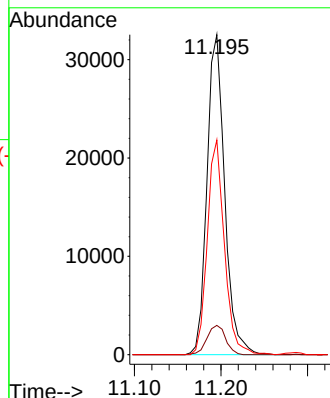
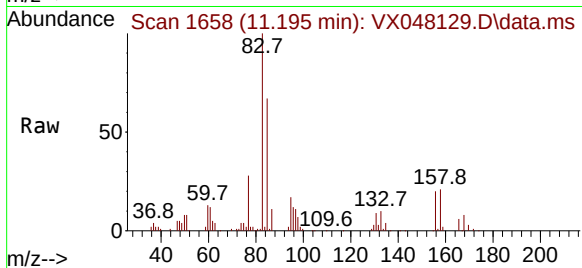
Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion:	83	Resp:	4617
Ion	Ratio	Lower	Upper
83	100		
131	9.7	5.0	14.9
85	64.9	31.6	95.0

Manual Integrations
APPROVEDReviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

#76

1,2,3-Trichloropropane

Concen: 18.770 ug/l m

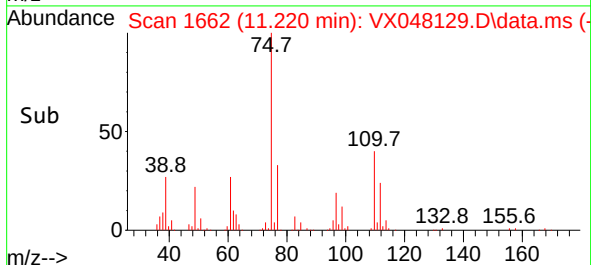
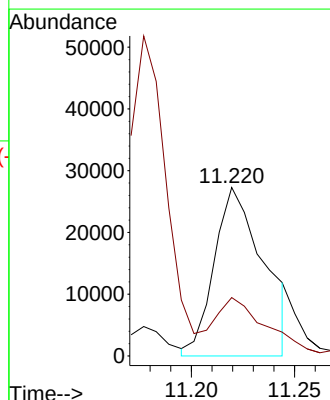
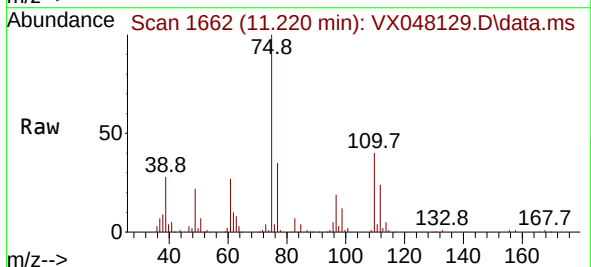
RT: 11.220 min Scan# 1662

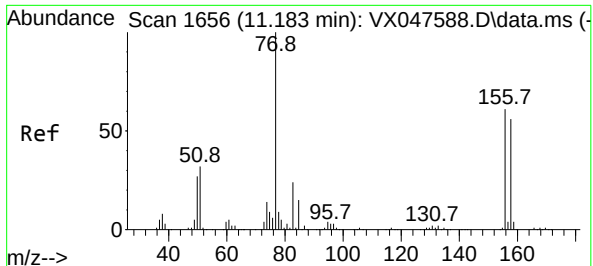
Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Tgt Ion:	75	Resp:	45237
Ion	Ratio	Lower	Upper
75	100		
77	34.0	18.8	56.4





#77

Bromobenzene

Concen: 17.613 ug/l

RT: 11.177 min Scan# 1655

Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion:156 Resp: 39258

Ion Ratio Lower Upper

156 100

77 174.0 89.7 269.1

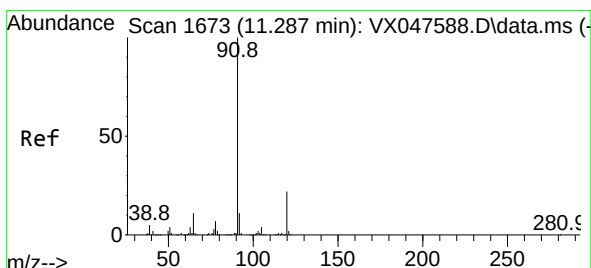
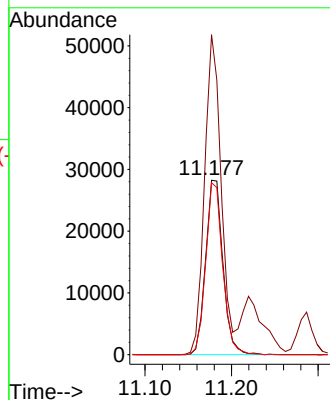
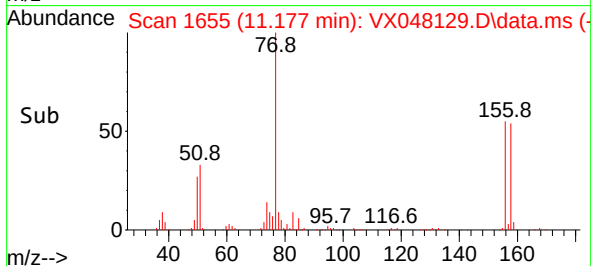
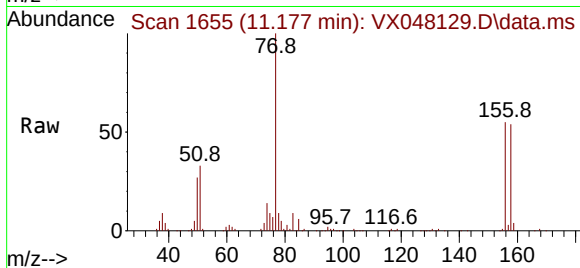
158 96.5 47.9 143.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#78

n-propylbenzene

Concen: 18.373 ug/l

RT: 11.287 min Scan# 1673

Delta R.T. -0.000 min

Lab File: VX048129.D

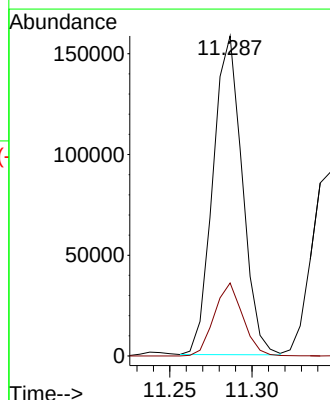
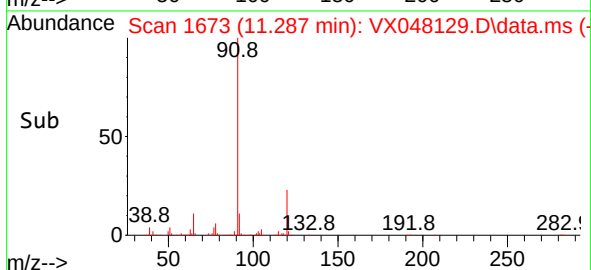
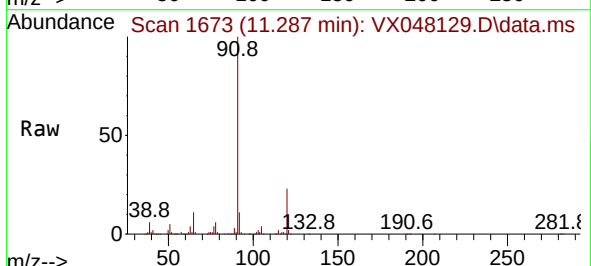
Acq: 13 Oct 2025 10:43

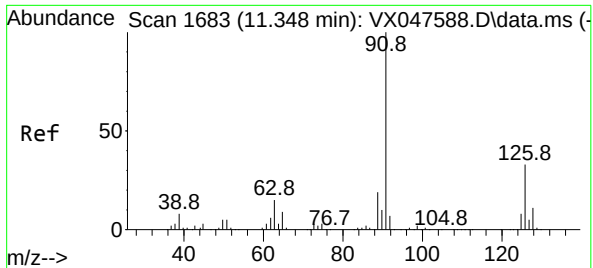
Tgt Ion: 91 Resp: 196547

Ion Ratio Lower Upper

91 100

120 22.3 11.1 33.1





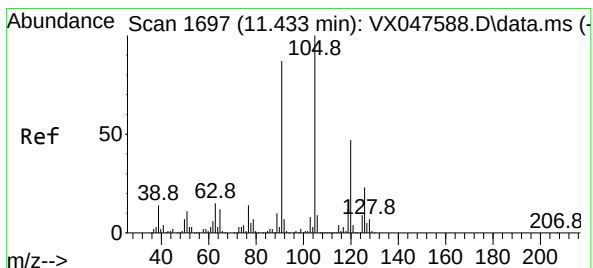
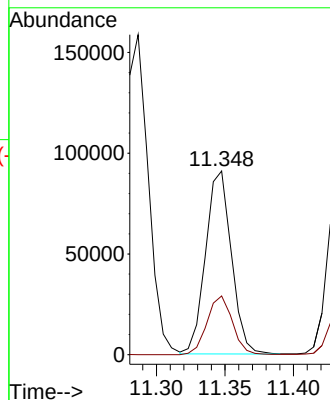
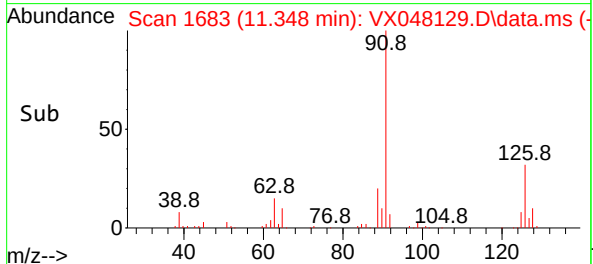
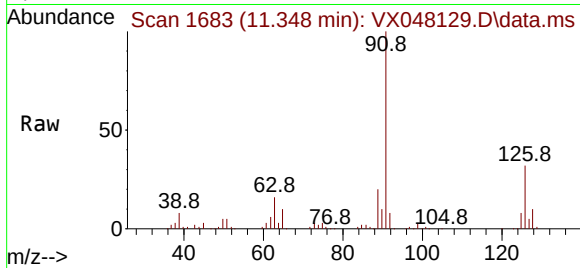
#79
2-Chlorotoluene
Concen: 18.167 ug/l
RT: 11.348 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01

Tgt Ion: 91 Resp: 11903
Ion Ratio Lower Upper
91 100
126 31.6 16.1 48.3

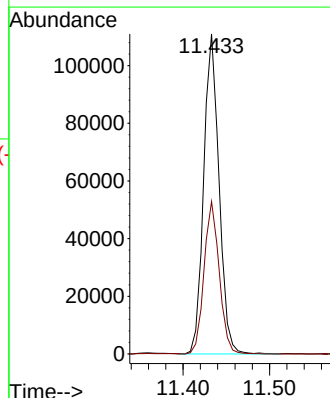
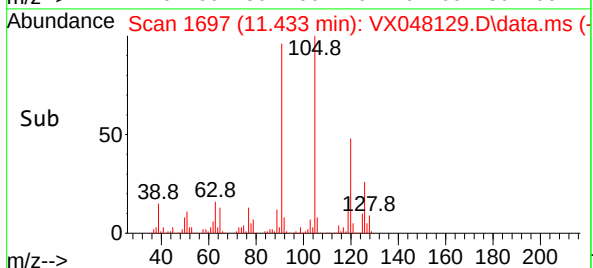
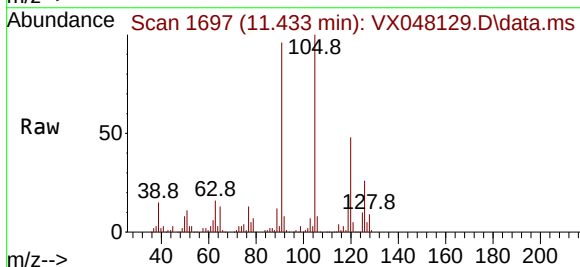
Manual Integrations
APPROVED

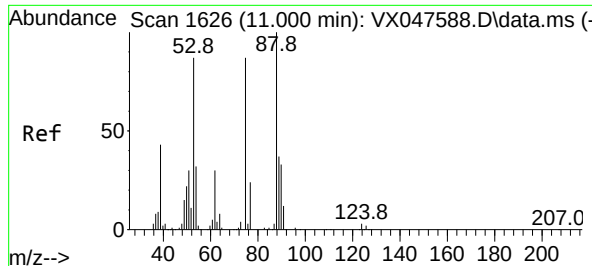
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#80
1,3,5-Trimethylbenzene
Concen: 18.364 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

Tgt Ion:105 Resp: 136540
Ion Ratio Lower Upper
105 100
120 47.1 23.6 70.8





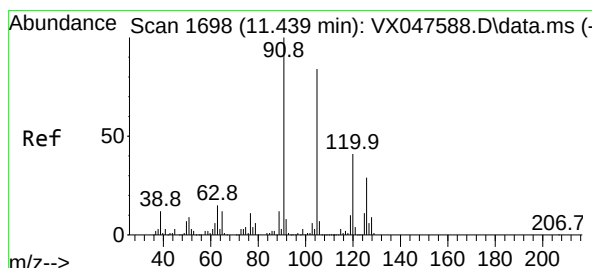
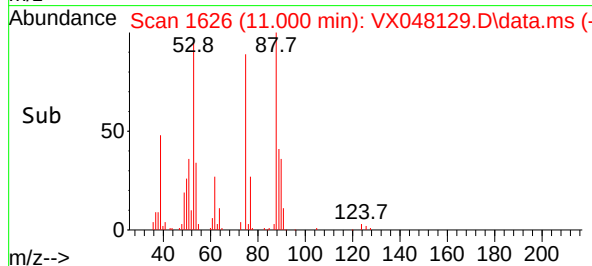
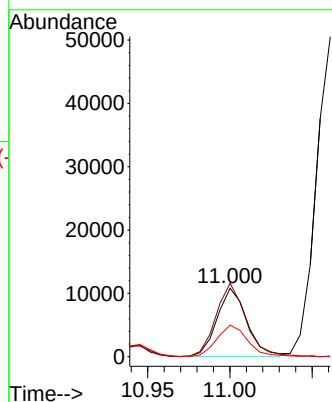
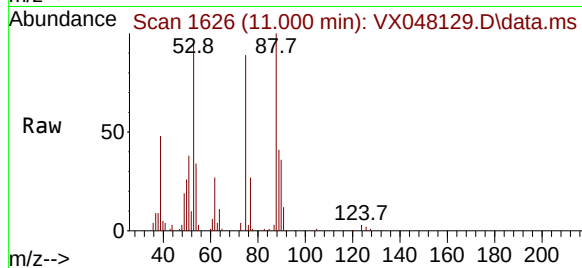
#81
trans-1,4-Dichloro-2-butene
Concen: 14.315 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01

Tgt Ion: 75 Resp: 13529
Ion Ratio Lower Upper
75 100
53 108.8 83.4 125.2
89 48.7 36.3 54.5

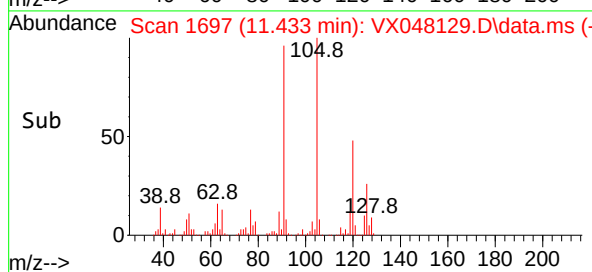
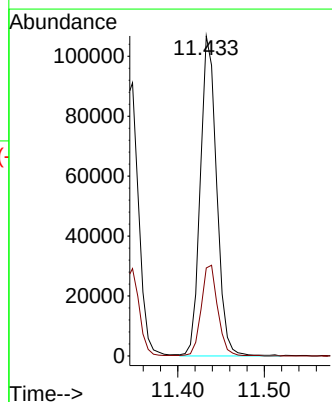
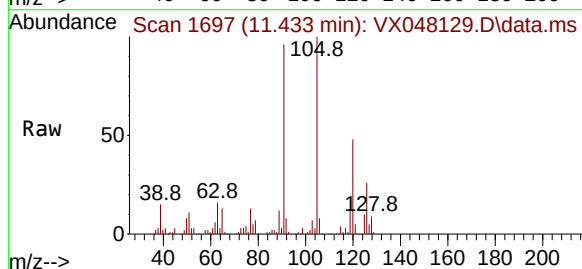
Manual Integrations
APPROVED

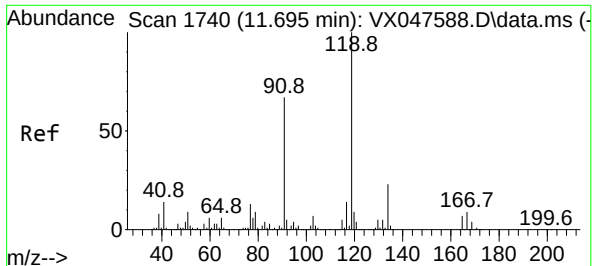
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#82
4-Chlorotoluene
Concen: 18.095 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

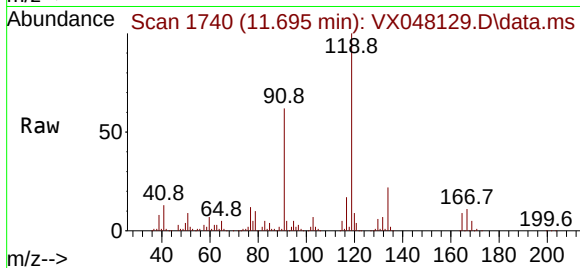
Tgt Ion: 91 Resp: 140028
Ion Ratio Lower Upper
91 100
126 28.8 14.2 42.6





#83
tert-Butylbenzene
Concen: 17.336 ug/l
RT: 11.695 min Scan# 1740
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

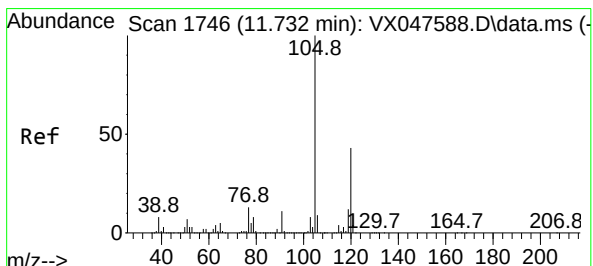
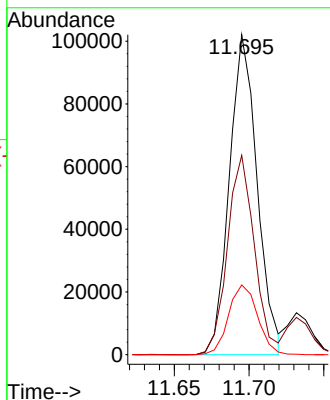
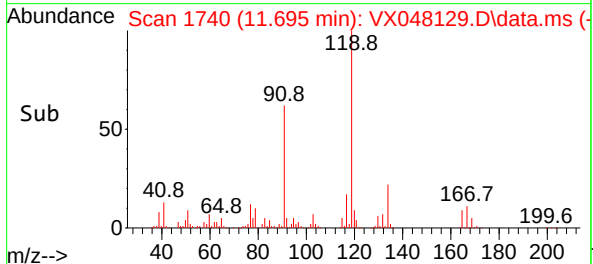
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01



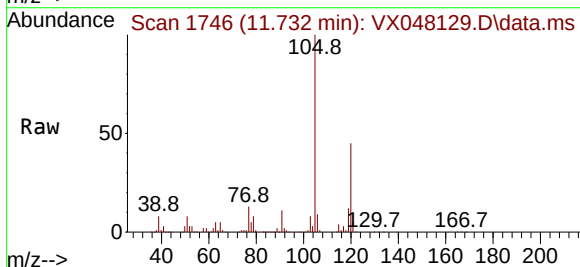
Tgt Ion:119 Resp: 13194
Ion Ratio Lower Upper
119 100
91 60.6 29.6 88.8
134 22.7 11.0 33.0

Manual Integrations
APPROVED

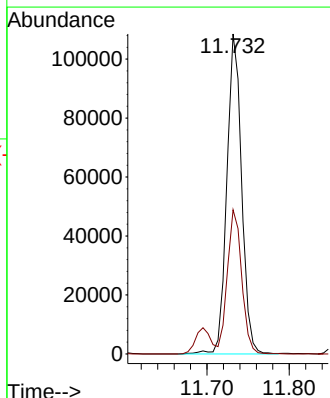
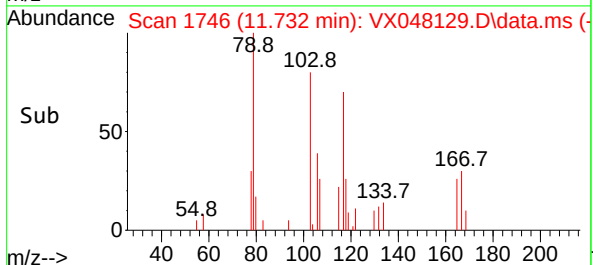
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

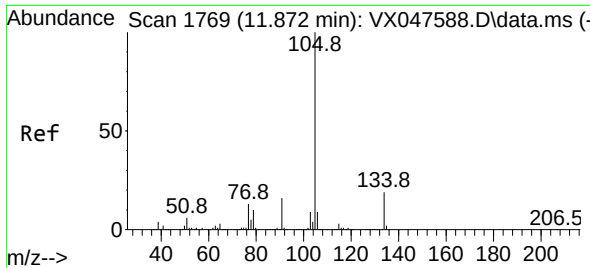


#84
1,2,4-Trimethylbenzene
Concen: 17.994 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43



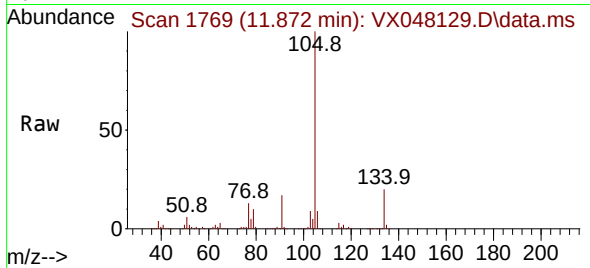
Tgt Ion:105 Resp: 135638
Ion Ratio Lower Upper
105 100
120 43.8 22.1 66.1





#85
sec-Butylbenzene
Concen: 18.173 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

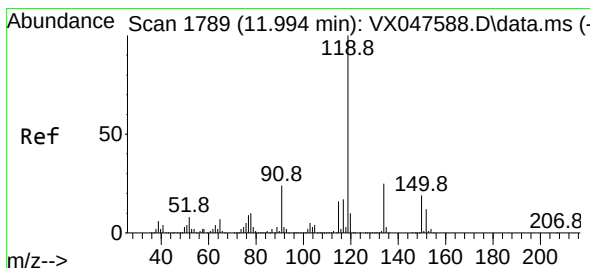
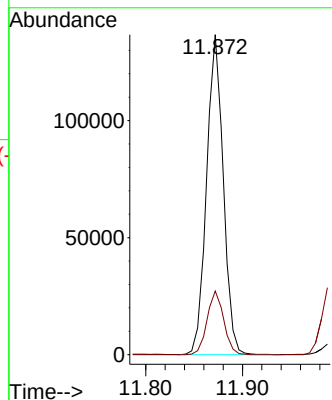
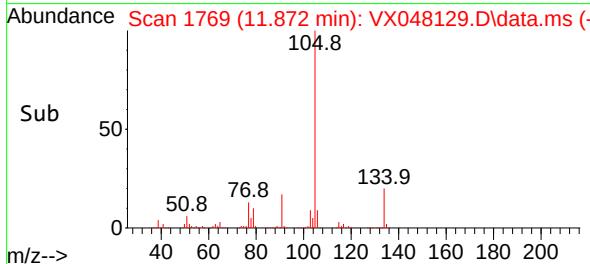
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01



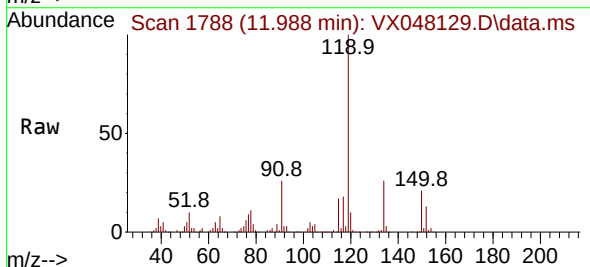
Tgt Ion:105 Resp: 16429
Ion Ratio Lower Upper
105 100
134 19.7 9.8 29.5

Manual Integrations
APPROVED

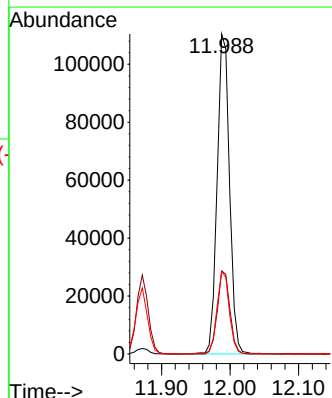
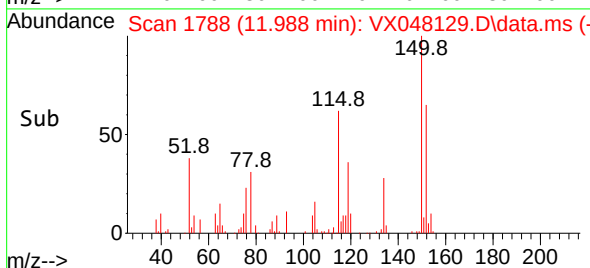
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

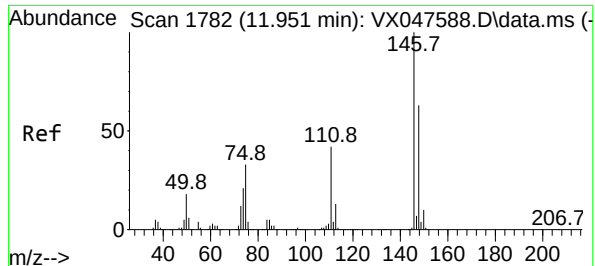


#86
p-Isopropyltoluene
Concen: 18.102 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.006 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43



Tgt Ion:119 Resp: 138550
Ion Ratio Lower Upper
119 100
134 26.0 12.6 37.8
91 25.7 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 17.954 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

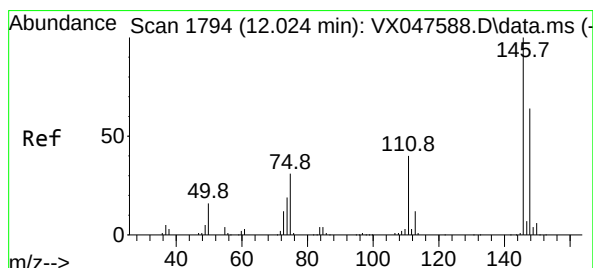
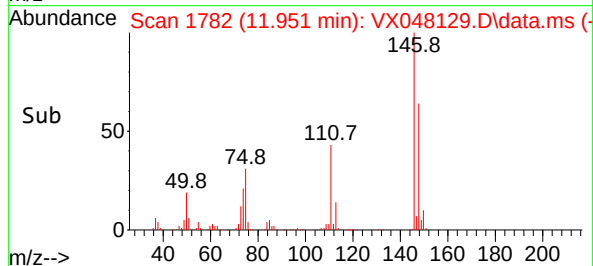
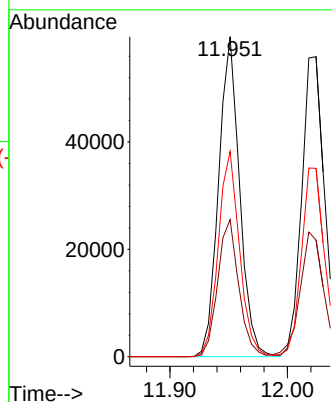
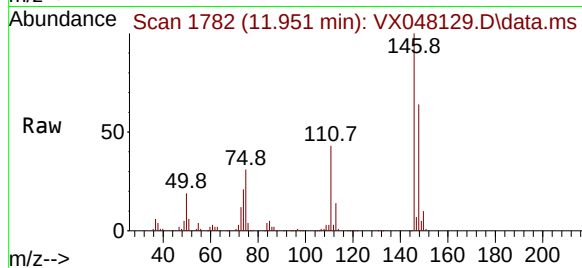
Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion:146	Resp:	74328
Ion Ratio	Lower	Upper
146	100	
111	42.9	21.5 64.5
148	64.5	32.0 96.0

Manual Integrations
APPROVEDReviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

#88

1,4-Dichlorobenzene

Concen: 17.809 ug/l

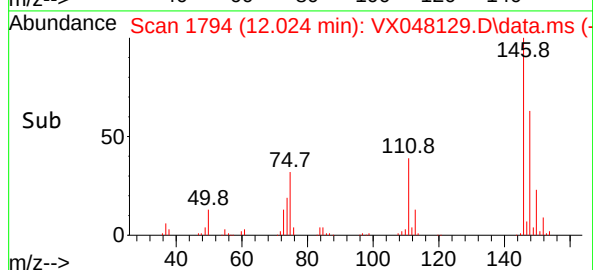
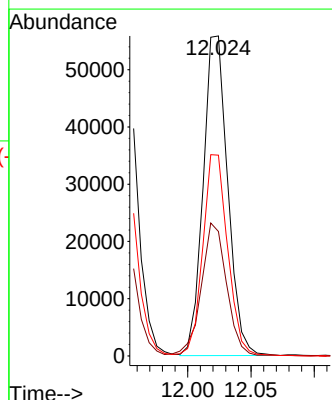
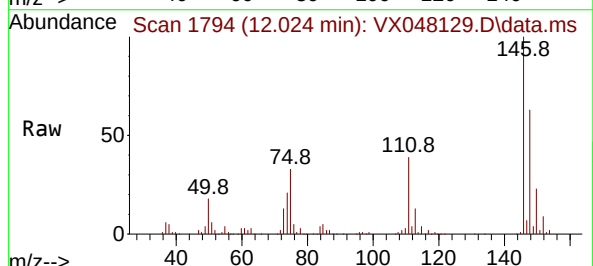
RT: 12.024 min Scan# 1794

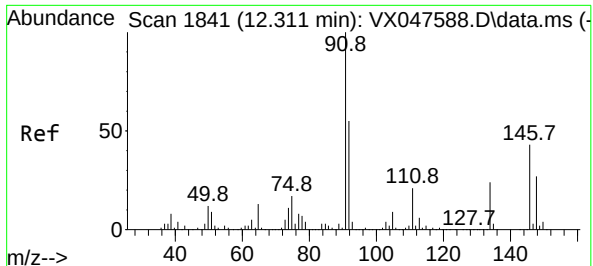
Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Tgt Ion:146	Resp:	75672
Ion Ratio	Lower	Upper
146	100	
111	43.1	20.8 62.4
148	64.0	31.7 95.1





#89

n-Butylbenzene

Concen: 18.112 ug/l

RT: 12.311 min Scan# 1841

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion: 91 Resp: 12827

Ion Ratio Lower Upper

91 100

92 54.5 27.6 82.7

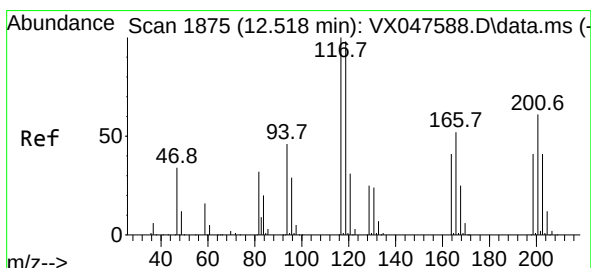
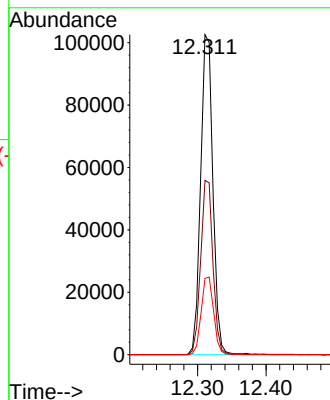
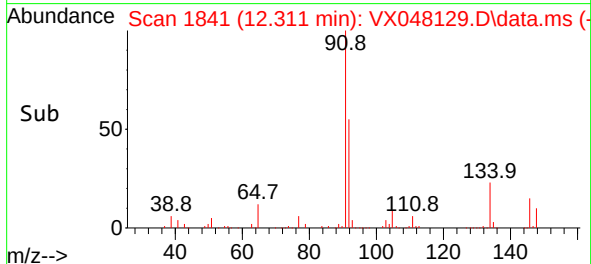
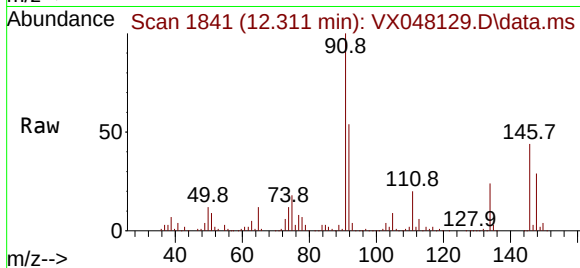
134 24.5 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#90

Hexachloroethane

Concen: 18.780 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX048129.D

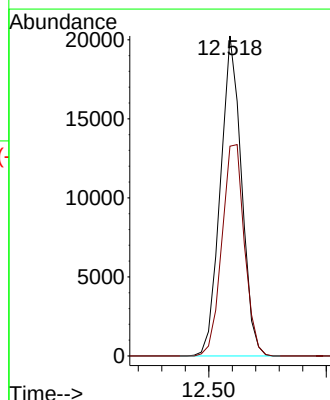
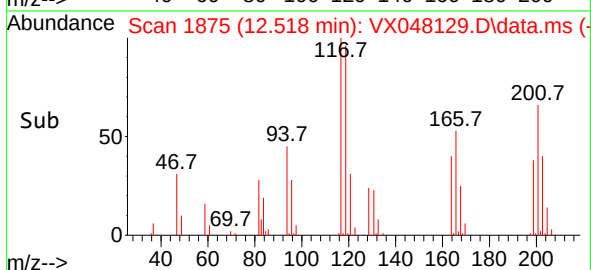
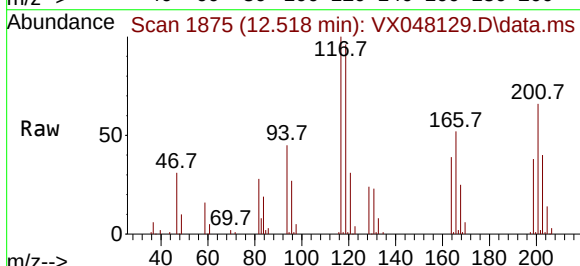
Acq: 13 Oct 2025 10:43

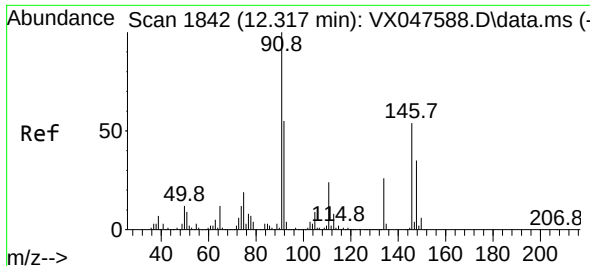
Tgt Ion:117 Resp: 25236

Ion Ratio Lower Upper

117 100

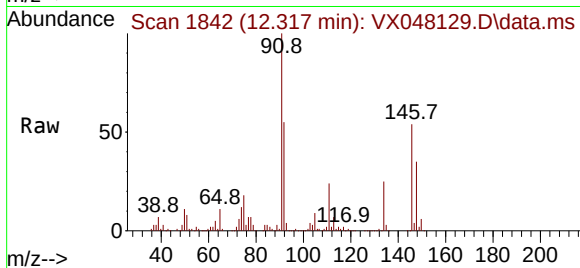
201 70.6 34.2 102.5





#91
1,2-Dichlorobenzene
Concen: 17.761 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

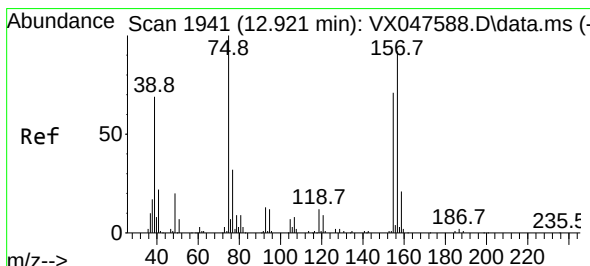
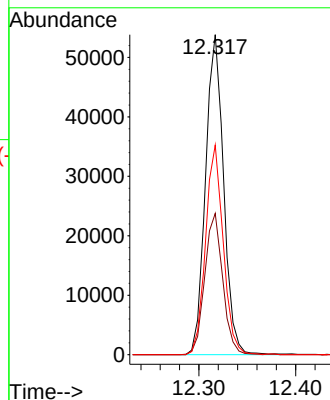
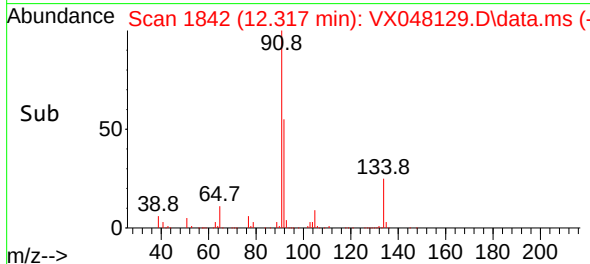
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBS01



Tgt Ion:146 Resp: 70052
Ion Ratio Lower Upper
146 100
111 44.1 22.2 66.6
148 64.0 31.8 95.4

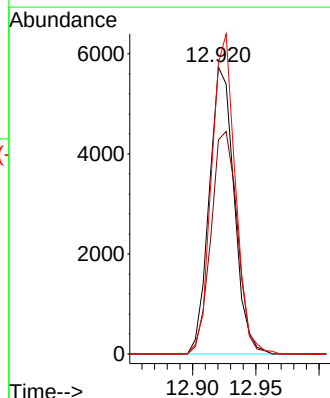
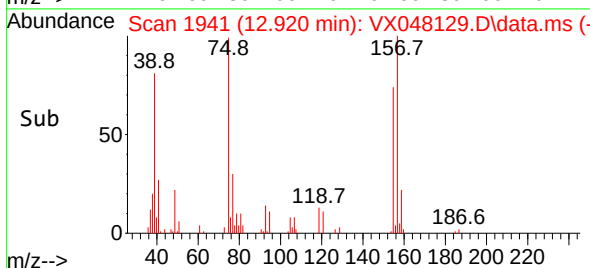
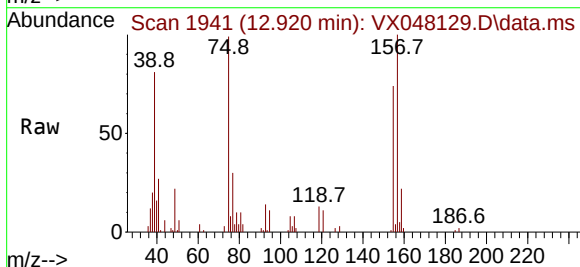
Manual Integrations
APPROVED

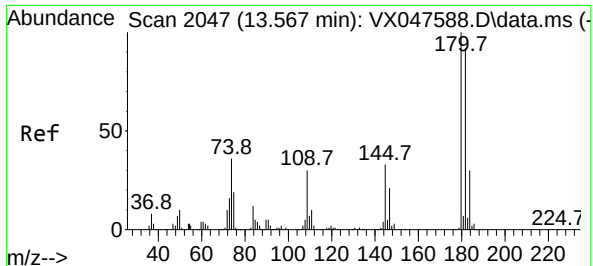
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 14.156 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048129.D
Acq: 13 Oct 2025 10:43

Tgt Ion: 75 Resp: 7847
Ion Ratio Lower Upper
75 100
155 81.7 37.7 113.1
157 106.2 49.8 149.4





#93

1,2,4-Trichlorobenzene

Concen: 16.361 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

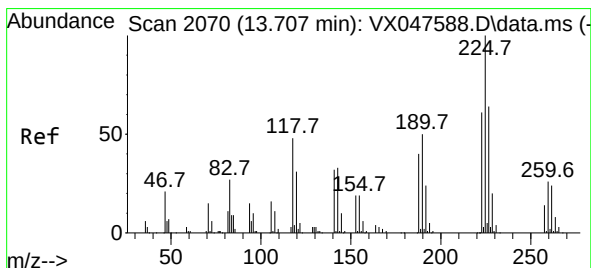
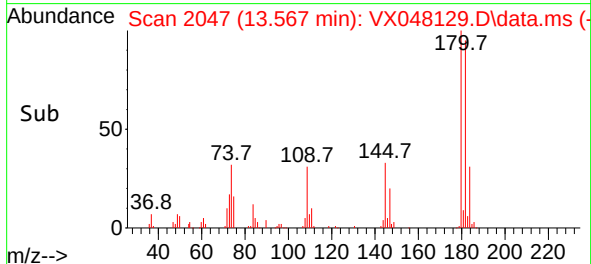
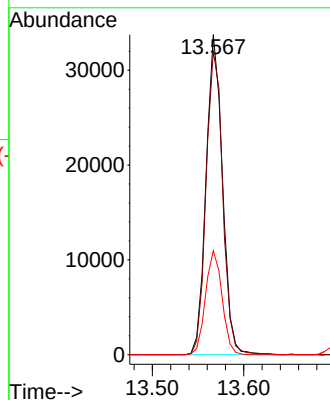
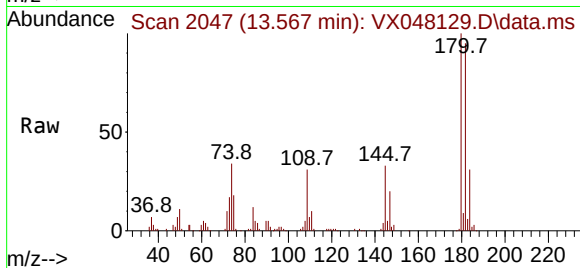
Tgt Ion:180	Resp:	41939
Ion Ratio	Lower	Upper
180	100	
182	96.0	46.6 139.8
145	32.8	16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#94

Hexachlorobutadiene

Concen: 18.794 ug/l

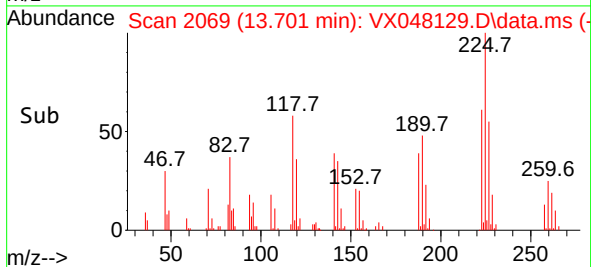
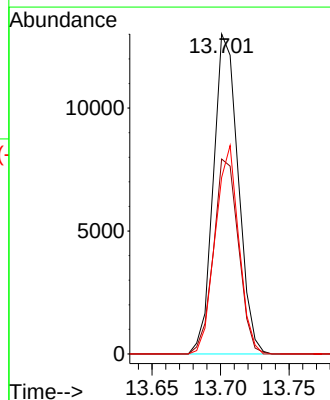
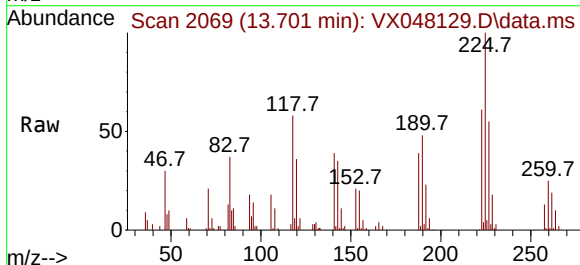
RT: 13.701 min Scan# 2069

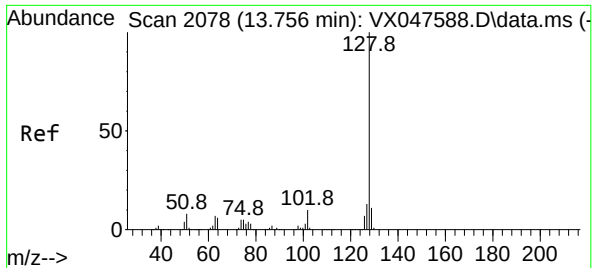
Delta R.T. -0.006 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Tgt Ion:225	Resp:	16364
Ion Ratio	Lower	Upper
225	100	
223	61.4	31.7 95.1
227	61.9	32.0 96.0





#95

Naphthalene

Concen: 14.383 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBS01

Tgt Ion:128 Resp: 11226

Ion Ratio Lower Upper

128 100

127 13.2 10.2 15.2

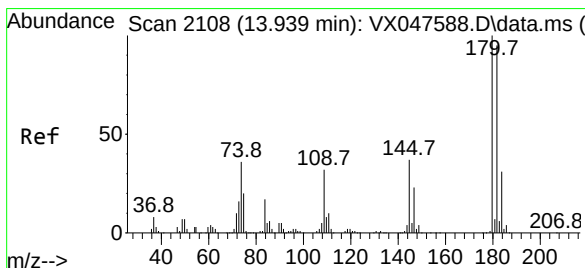
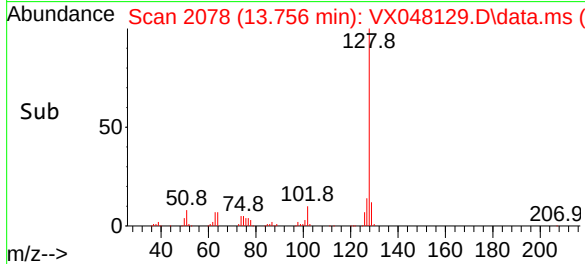
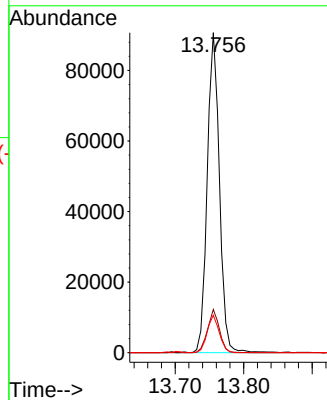
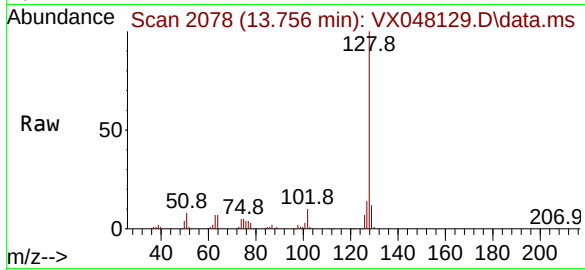
129 11.6 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#96

1,2,3-Trichlorobenzene

Concen: 16.397 ug/l

RT: 13.939 min Scan# 2108

Delta R.T. -0.000 min

Lab File: VX048129.D

Acq: 13 Oct 2025 10:43

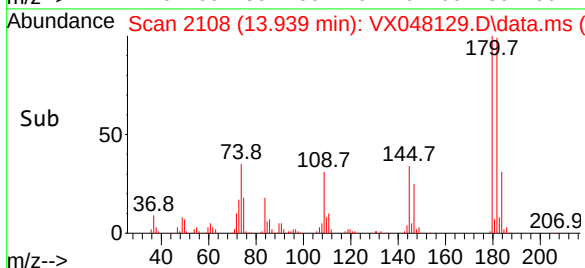
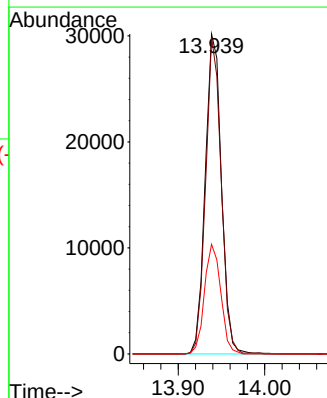
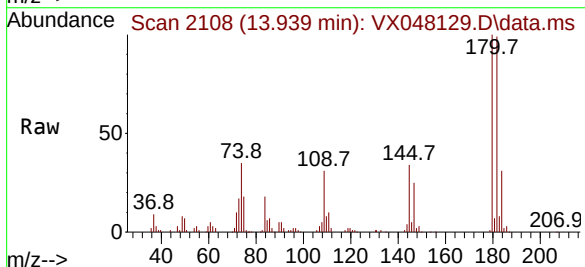
Tgt Ion:180 Resp: 39097

Ion Ratio Lower Upper

180 100

182 95.2 47.6 142.8

145 34.6 17.9 53.7



Report of Analysis

Client: Weston Solutions, Inc.
 Project: RFP 918
 Client Sample ID: VX1013WBSD01
 Lab Sample ID: VX1013WBSD01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3321
 Matrix: TCLP
 % Solid: 0
 Test: TCLP VOA

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	20.3		1	0.26	1.00	ug/L	10/13/25 11:24	VX101325
75-35-4	1,1-Dichloroethene	19.8		1	0.23	1.00	ug/L	10/13/25 11:24	VX101325
78-93-3	2-Butanone	83.2		1	0.98	5.00	ug/L	10/13/25 11:24	VX101325
56-23-5	Carbon Tetrachloride	21.5		1	0.25	1.00	ug/L	10/13/25 11:24	VX101325
67-66-3	Chloroform	19.7		1	0.25	1.00	ug/L	10/13/25 11:24	VX101325
71-43-2	Benzene	20.5		1	0.15	1.00	ug/L	10/13/25 11:24	VX101325
107-06-2	1,2-Dichloroethane	20.0		1	0.22	1.00	ug/L	10/13/25 11:24	VX101325
79-01-6	Trichloroethene	21.0		1	0.090	1.00	ug/L	10/13/25 11:24	VX101325
127-18-4	Tetrachloroethene	21.2		1	0.23	1.00	ug/L	10/13/25 11:24	VX101325
108-90-7	Chlorobenzene	20.0		1	0.12	1.00	ug/L	10/13/25 11:24	VX101325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	49.6			74 - 12	99%	SPK: 50		
1868-53-7	Dibromofluoromethane	55.8			75 - 12	112%	SPK: 50		
2037-26-5	Toluene-d8	53.9			86 - 11	108%	SPK: 50		
460-00-4	4-Bromofluorobenzene	55.0			77 - 12	110%	SPK: 50		
INTERNAL STANDARDS									
		Area							
363-72-4	Pentafluorobenzene	139000							
540-36-3	1,4-Difluorobenzene	234000							
3114-55-4	Chlorobenzene-d5	213000							
3855-82-1	1,4-Dichlorobenzene-d4	110000							

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\VX101325\
 Data File : VX048131.D
 Acq On : 13 Oct 2025 11:24
 Operator : JC/MD
 Sample : VX1013WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1013WBSD01

Manual Integrations APPROVED

Reviewed By : John Carlone 10/14/2025
 Supervised By : Mahesh Dadoda 10/14/2025

Quant Time: Oct 14 01:51:36 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	139496	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	233746	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	212533	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	110079	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.946	65	110233	49.645	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	99.300%
35) Dibromofluoromethane	5.379	113	87432	55.773	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	111.540%
50) Toluene-d8	8.635	98	292315	53.890	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	107.780%
62) 4-Bromofluorobenzene	11.061	95	113210	54.993	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	109.980%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.179	85	30775	21.305	ug/l	90
3) Chloromethane	1.300	50	35344	18.617	ug/l	96
4) Vinyl Chloride	1.386	62	37794	20.337	ug/l	96
5) Bromomethane	1.624	94	26878	22.808	ug/l	96
6) Chloroethane	1.697	64	23921	19.259	ug/l	98
7) Trichlorofluoromethane	1.898	101	59312	21.495	ug/l	97
8) Diethyl Ether	2.136	74	21099	18.692	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.337	101	34661	21.482	ug/l	98
10) Methyl Iodide	2.459	142	38872	15.448	ug/l	100
11) Tert butyl alcohol	2.940	59	19730	79.783	ug/l	97
12) 1,1-Dichloroethene	2.331	96	32835	19.812	ug/l	95
13) Acrolein	2.239	56	18763	82.334	ug/l	99
14) Allyl chloride	2.672	41	59755	17.472	ug/l	99
15) Acrylonitrile	3.062	53	81786	89.286	ug/l	99
16) Acetone	2.373	43	75692	78.401	ug/l	98
17) Carbon Disulfide	2.520	76	97263	21.437	ug/l	97
18) Methyl Acetate	2.703	43	33922	15.788	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	107865	17.829	ug/l	97
20) Methylene Chloride	2.794	84	38349	18.765	ug/l	95
21) trans-1,2-Dichloroethene	3.093	96	34754	19.477	ug/l	93
22) Diisopropyl ether	3.757	45	123489	18.631	ug/l	90
23) Vinyl Acetate	3.715	43	490504	92.465	ug/l	98
24) 1,1-Dichloroethane	3.611	63	66260	18.808	ug/l	98
25) 2-Butanone	4.544	43	100254	83.248	ug/l	100
26) 2,2-Dichloropropane	4.471	77	55703	19.021	ug/l	100
27) cis-1,2-Dichloroethene	4.489	96	41590	19.032	ug/l	98
28) Bromochloromethane	4.891	49	29527	19.199	ug/l	99
29) Tetrahydrofuran	4.995	42	60097	82.954	ug/l	98
30) Chloroform	5.086	83	70203	19.720	ug/l	98
31) Cyclohexane	5.458	56	59795	20.379	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	60278	19.962	ug/l	99
36) 1,1-Dichloropropene	5.684	75	46256	20.193	ug/l	98
37) Ethyl Acetate	4.708	43	42701	17.410	ug/l	99
38) Carbon Tetrachloride	5.666	117	53447	21.475	ug/l	98
39) Methylcyclohexane	7.366	83	57283	22.030	ug/l	98
40) Benzene	6.025	78	142301	20.453	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101325\
 Data File : VX048131.D
 Acq On : 13 Oct 2025 11:24
 Operator : JC/MD
 Sample : VX1013WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1013WBSD01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 10/14/2025
 Supervised By :Mahesh Dadoda 10/14/2025

Quant Time: Oct 14 01:51:36 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	4.910	41	23555	18.603	ug/l	98
42) 1,2-Dichloroethane	6.074	62	53054	20.042	ug/l	99
43) Isopropyl Acetate	6.324	43	72762	18.089	ug/l	100
44) Trichloroethene	7.117	130	35381	21.035	ug/l	95
45) 1,2-Dichloropropane	7.415	63	35945	20.177	ug/l	96
46) Dibromomethane	7.568	93	26506	20.446	ug/l	99
47) Bromodichloromethane	7.805	83	56353	21.065	ug/l	96
48) Methyl methacrylate	7.683	41	35678	17.806	ug/l	97
49) 1,4-Dioxane	7.647	88	8363	413.006	ug/l #	76
51) 4-Methyl-2-Pentanone	8.555	43	210754	94.498	ug/l	98
52) Toluene	8.702	92	88514	20.650	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	53639	19.657	ug/l	99
54) cis-1,3-Dichloropropene	8.354	75	59070	20.253	ug/l	100
55) 1,1,2-Trichloroethane	9.134	97	34160	20.668	ug/l	97
56) Ethyl methacrylate	9.104	69	47323	18.231	ug/l	99
57) 1,3-Dichloropropane	9.293	76	58693	20.672	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	113295	98.475	ug/l	100
59) 2-Hexanone	9.415	43	144400	90.150	ug/l	99
60) Dibromochloromethane	9.506	129	39779	20.888	ug/l	97
61) 1,2-Dibromoethane	9.592	107	34417	20.444	ug/l	97
64) Tetrachloroethene	9.262	164	29356	21.188	ug/l	95
65) Chlorobenzene	10.061	112	96705	20.029	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.146	131	33415	20.055	ug/l	98
67) Ethyl Benzene	10.177	91	166122	19.940	ug/l	99
68) m/p-Xylenes	10.287	106	126243	40.712	ug/l	99
69) o-Xylene	10.628	106	59343	19.786	ug/l	100
70) Styrene	10.640	104	104956	19.972	ug/l	99
71) Bromoform	10.780	173	25205	20.260	ug/l #	97
73) Isopropylbenzene	10.945	105	155320	18.559	ug/l	99
74) N-amyl acetate	10.829	43	61111	16.013	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	46286	18.280	ug/l	99
76) 1,2,3-Trichloropropane	11.219	75	41112m	18.446	ug/l	
77) Bromobenzene	11.183	156	38579	18.717	ug/l	99
78) n-propylbenzene	11.287	91	189336	19.138	ug/l	100
79) 2-Chlorotoluene	11.347	91	112525	18.571	ug/l	98
80) 1,3,5-Trimethylbenzene	11.433	105	130422	18.968	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.006	75	13610	15.573	ug/l	98
82) 4-Chlorotoluene	11.439	91	134151	18.746	ug/l	100
83) tert-Butylbenzene	11.695	119	131899	18.739	ug/l	98
84) 1,2,4-Trimethylbenzene	11.732	105	130768	18.759	ug/l	100
85) sec-Butylbenzene	11.872	105	161342	19.298	ug/l	99
86) p-Isopropyltoluene	11.994	119	134252	18.968	ug/l	98
87) 1,3-Dichlorobenzene	11.951	146	71619	18.707	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	74007	18.834	ug/l	100
89) n-Butylbenzene	12.317	91	124634	19.030	ug/l	97
90) Hexachloroethane	12.518	117	24287	19.544	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	67412	18.482	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.926	75	8497	16.575	ug/l	96
93) 1,2,4-Trichlorobenzene	13.567	180	41190	17.376	ug/l	99
94) Hexachlorobutadiene	13.707	225	15815	19.641	ug/l	99
95) Naphthalene	13.756	128	112486	15.583	ug/l	100
96) 1,2,3-Trichlorobenzene	13.945	180	37838	17.159	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101325\
Data File : VX048131.D
Acq On : 13 Oct 2025 11:24
Operator : JC/MD
Sample : VX1013WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

Quant Time: Oct 14 01:51:36 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)

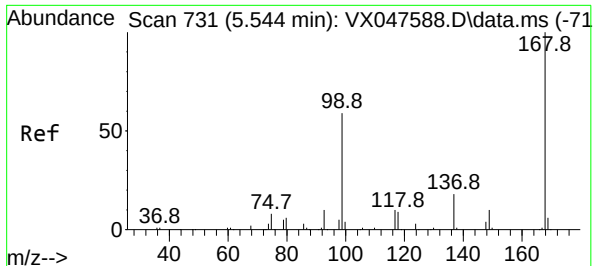
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025





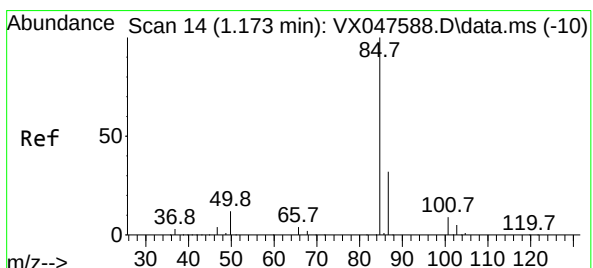
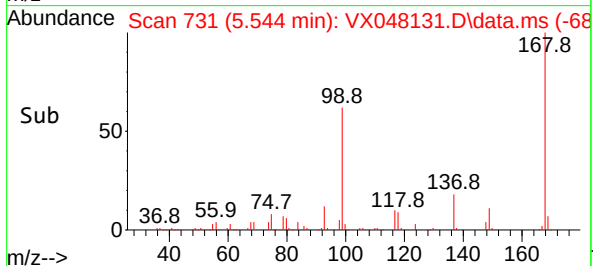
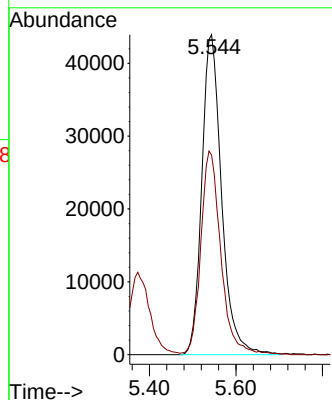
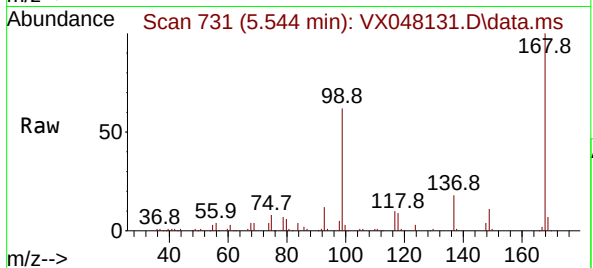
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01

Tgt Ion:168 Resp: 139490
Ion Ratio Lower Upper
168 100
99 62.2 48.8 73.2

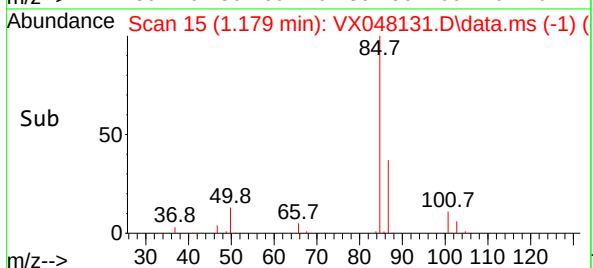
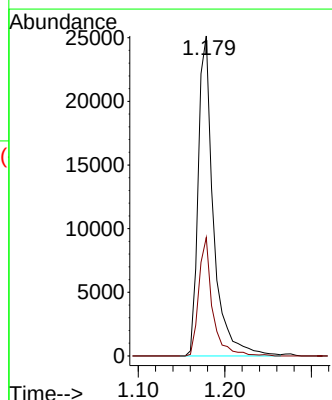
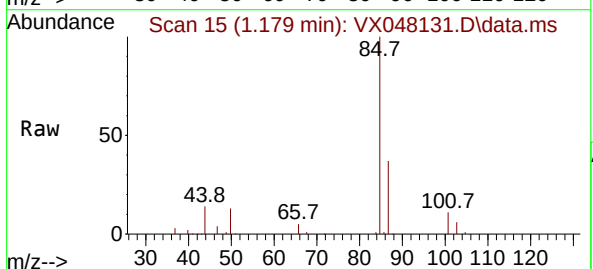
Manual Integrations
APPROVED

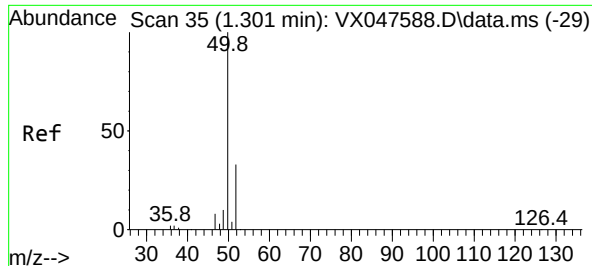
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#2
Dichlorodifluoromethane
Concen: 21.305 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Tgt Ion: 85 Resp: 30775
Ion Ratio Lower Upper
85 100
87 37.0 15.8 47.3





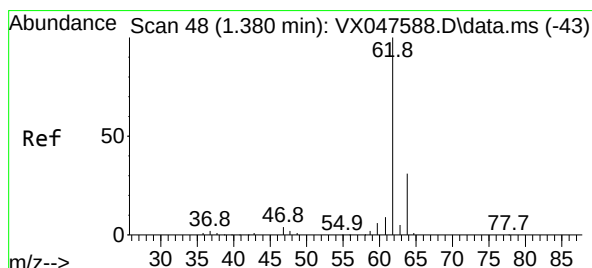
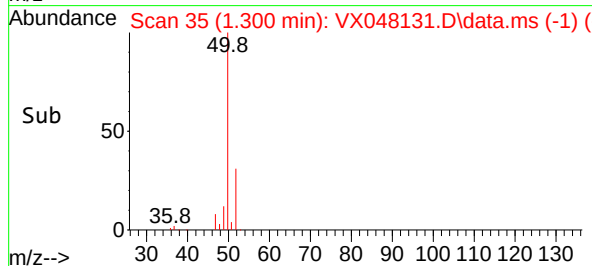
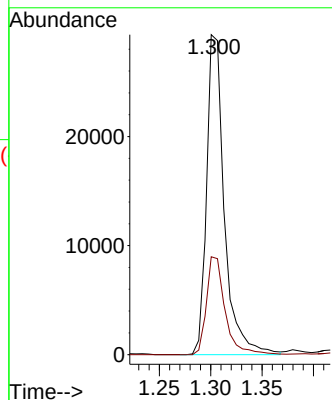
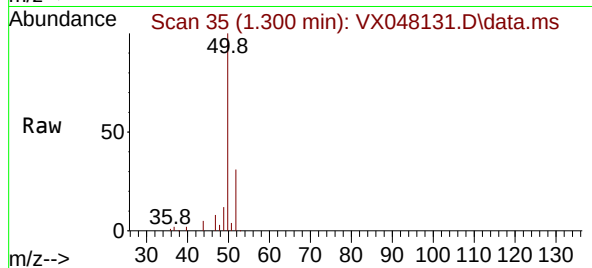
#3
Chloromethane
Concen: 18.617 ug/l
RT: 1.300 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01

Tgt Ion: 50 Resp: 3534
Ion Ratio Lower Upper
50 100
52 30.6 26.1 39.1

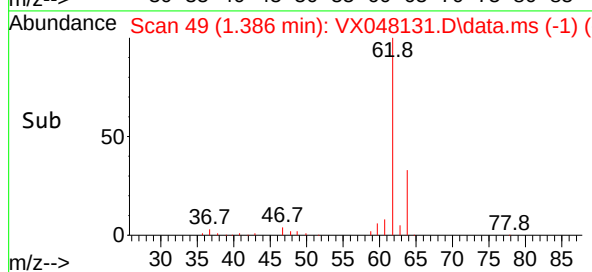
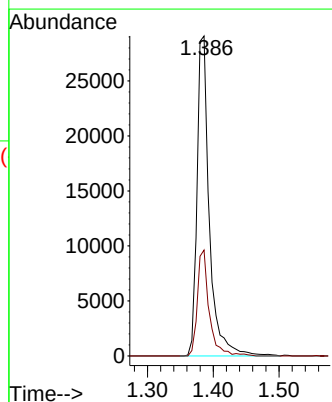
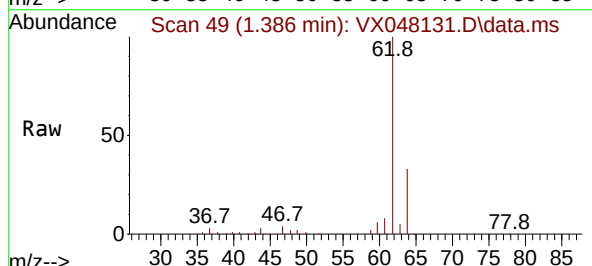
Manual Integrations
APPROVED

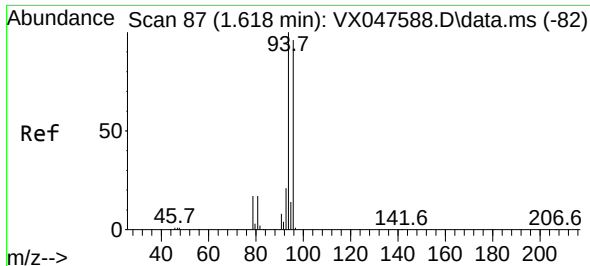
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#4
Vinyl Chloride
Concen: 20.337 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.006 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

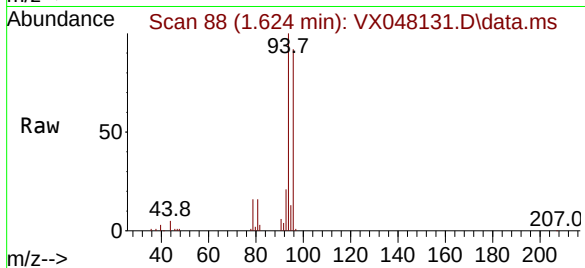
Tgt Ion: 62 Resp: 37794
Ion Ratio Lower Upper
62 100
64 33.1 24.9 37.3





#5
Bromomethane
Concen: 22.808 ug/l
RT: 1.624 min Scan# 87
Delta R.T. 0.006 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

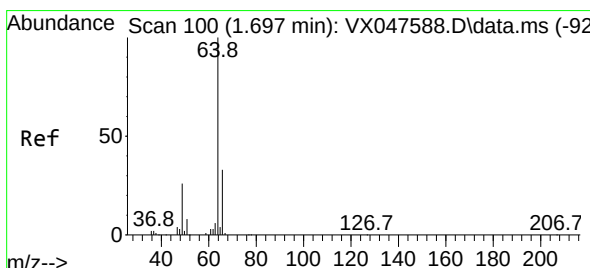
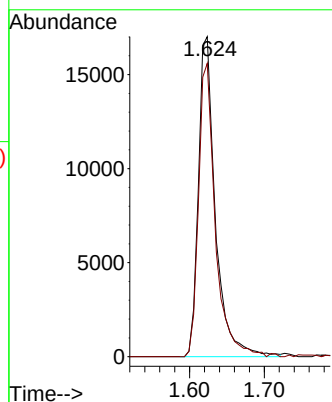
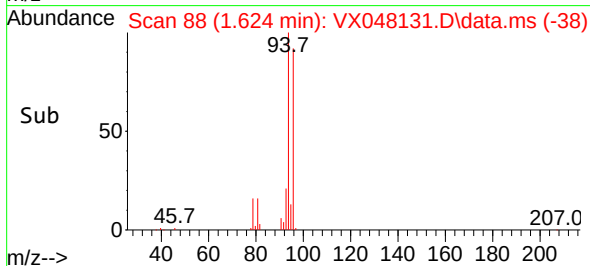
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01



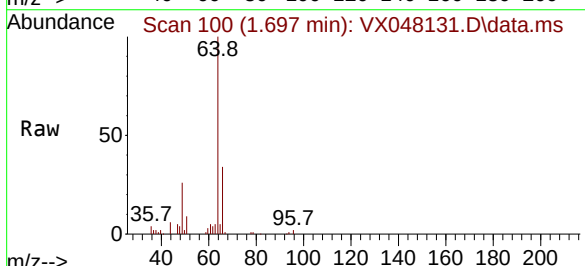
Tgt Ion: 94 Resp: 26878
Ion Ratio Lower Upper
94 100
96 91.7 76.6 115.0

Manual Integrations
APPROVED

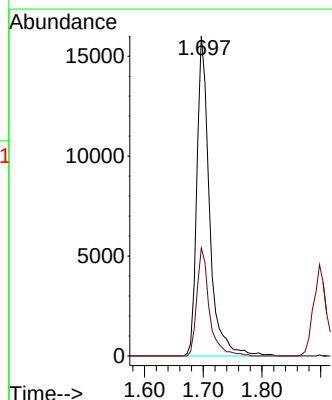
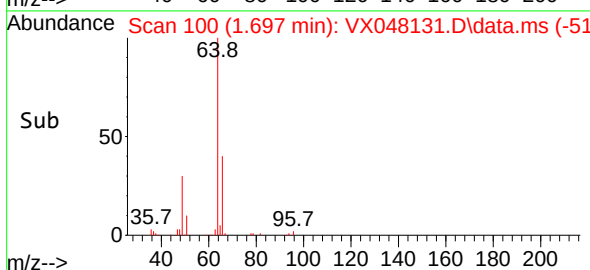
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

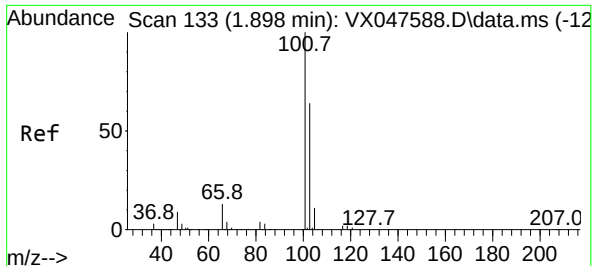


#6
Chloroethane
Concen: 19.259 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24



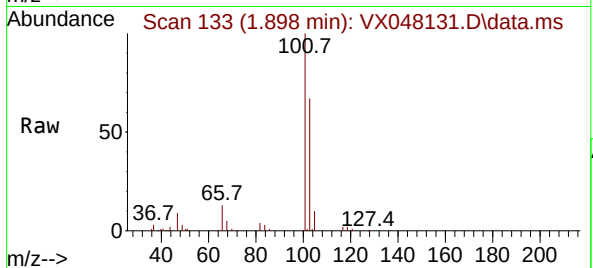
Tgt Ion: 64 Resp: 23921
Ion Ratio Lower Upper
64 100
66 33.7 26.1 39.1





#7
Trichlorofluoromethane
Concen: 21.495 ug/l
RT: 1.898 min Scan# 133
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

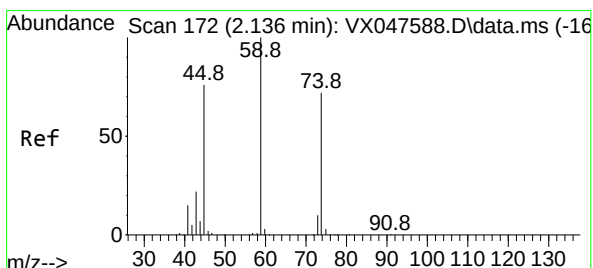
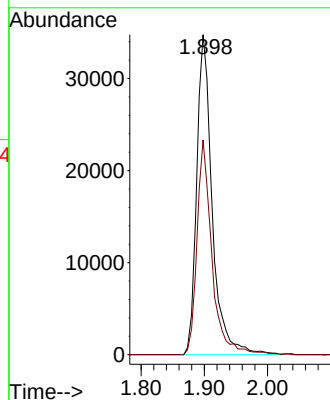
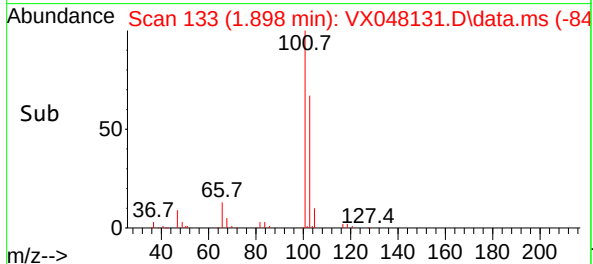
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01



Tgt Ion:101 Resp: 5931
Ion Ratio Lower Upper
101 100
103 66.3 51.4 77.2

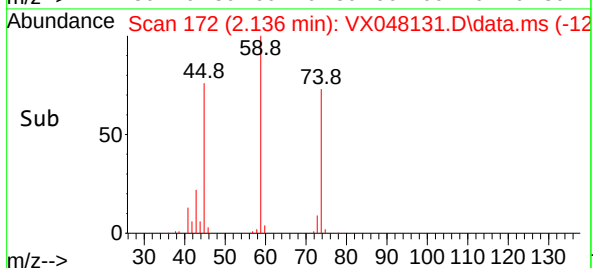
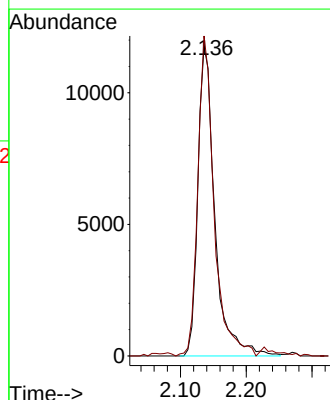
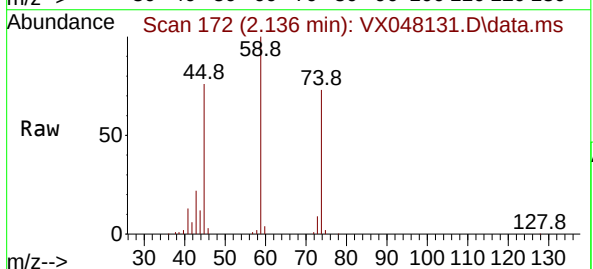
Manual Integrations
APPROVED

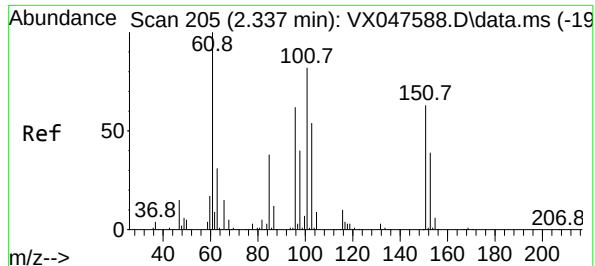
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#8
Diethyl Ether
Concen: 18.692 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Tgt Ion: 74 Resp: 21099
Ion Ratio Lower Upper
74 100
45 99.4 52.3 156.8





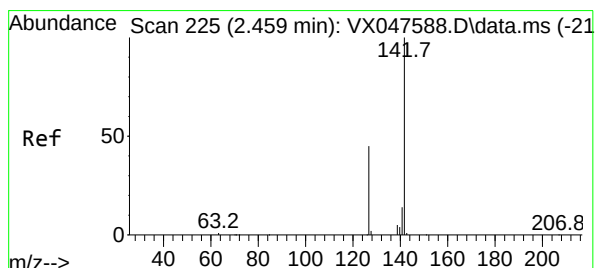
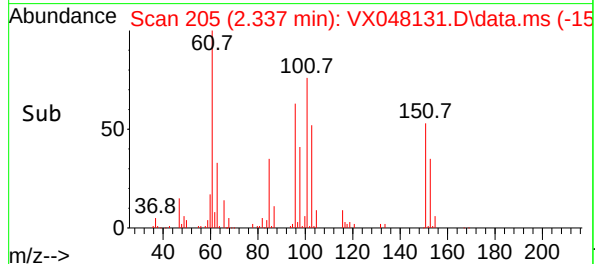
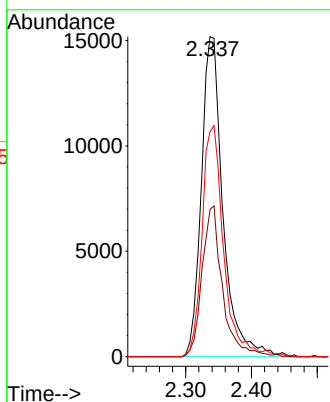
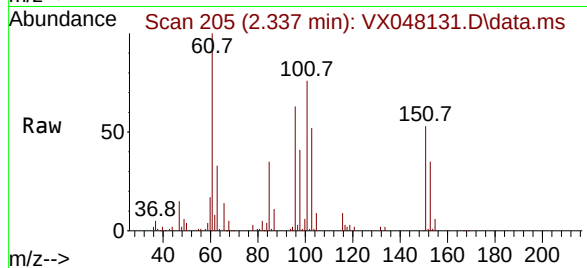
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.482 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01

Tgt Ion:101 Resp: 3466
Ion Ratio Lower Upper
101 100
85 44.6 35.5 53.3
151 72.2 59.4 89.0

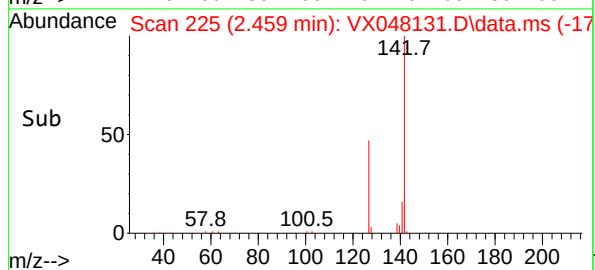
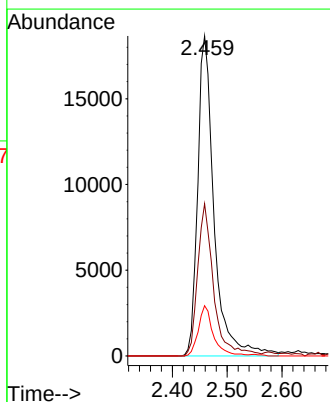
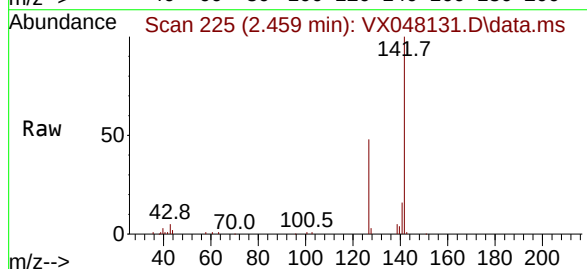
Manual Integrations
APPROVED

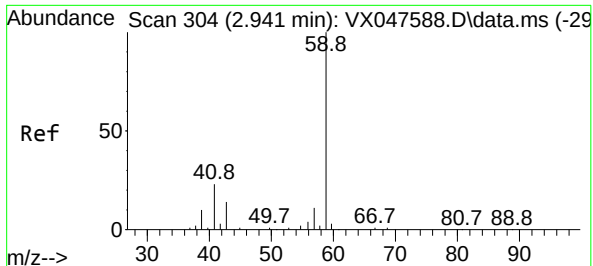
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#10
Methyl Iodide
Concen: 15.448 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Tgt Ion:142 Resp: 38872
Ion Ratio Lower Upper
142 100
127 46.4 37.2 55.8
141 14.4 11.4 17.0





#11

Tert butyl alcohol

Concen: 79.783 ug/l

RT: 2.940 min Scan# 304

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBSD01

Tgt Ion: 59 Resp: 19730

Ion Ratio Lower Upper

59 100

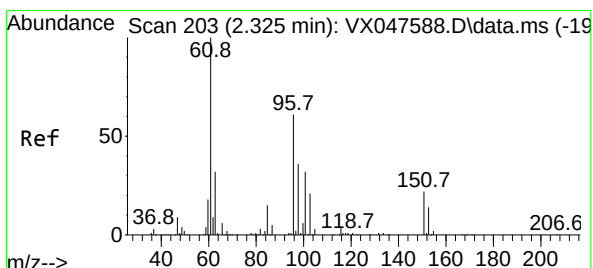
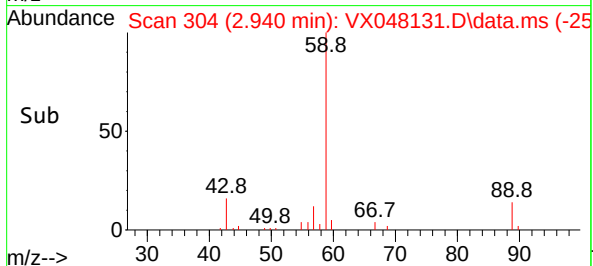
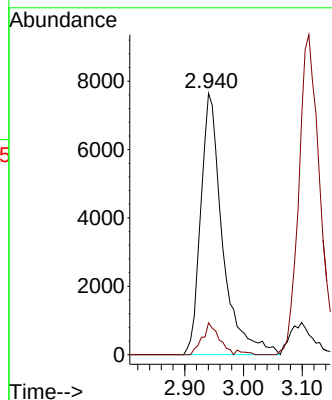
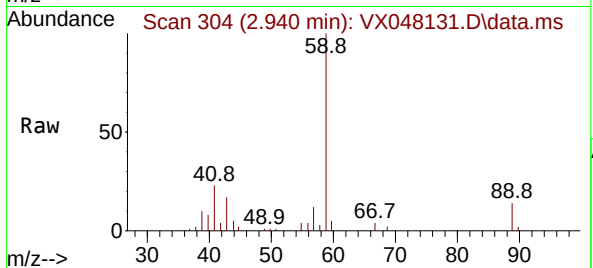
57 9.2 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#12

1,1-Dichloroethene

Concen: 19.812 ug/l

RT: 2.331 min Scan# 204

Delta R.T. 0.006 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

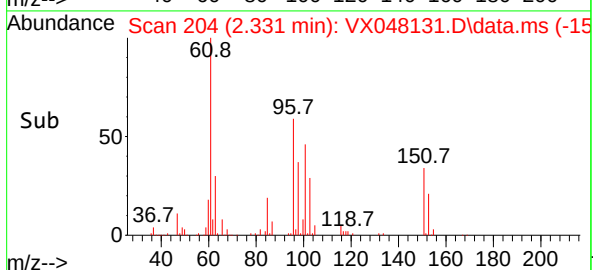
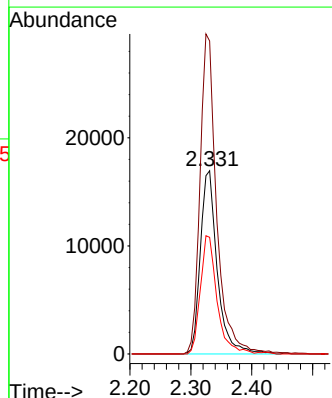
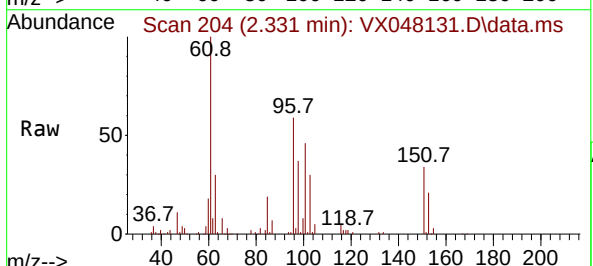
Tgt Ion: 96 Resp: 32835

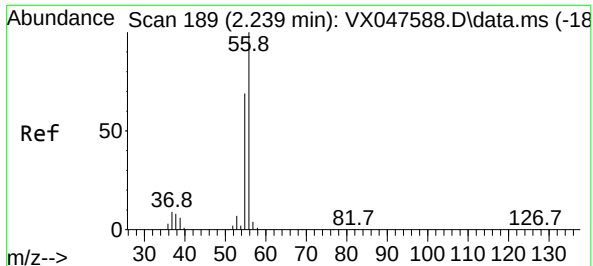
Ion Ratio Lower Upper

96 100

61 170.8 131.0 196.6

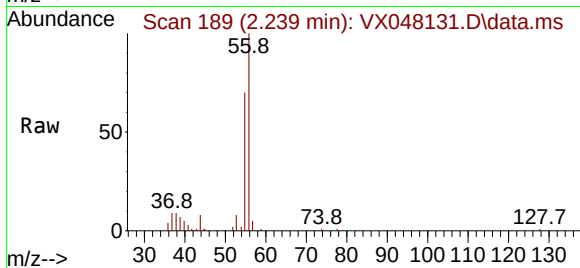
98 63.7 47.7 71.5





#13
Acrolein
Concen: 82.334 ug/l
RT: 2.239 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

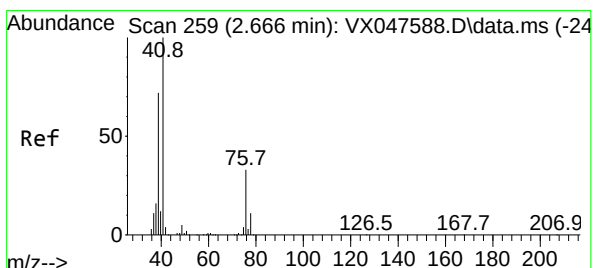
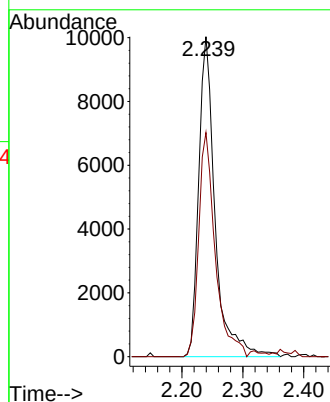
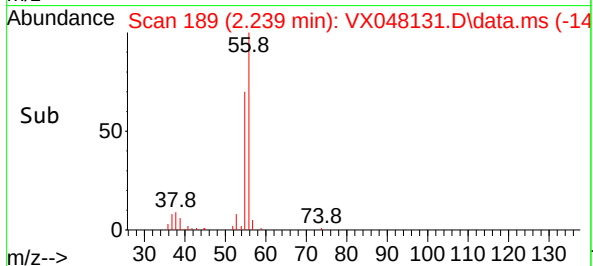
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01



Tgt Ion: 56 Resp: 1876
Ion Ratio Lower Upper
56 100
55 70.4 57.2 85.8

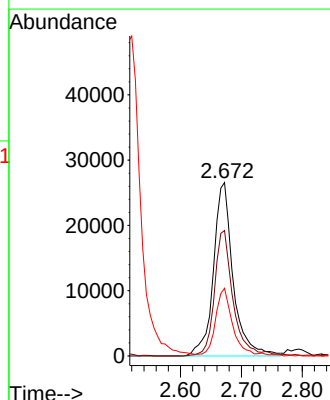
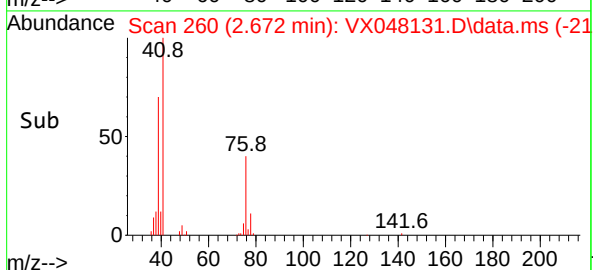
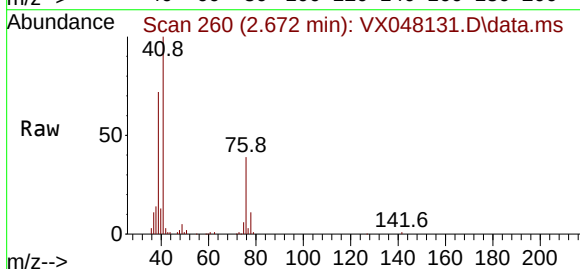
Manual Integrations
APPROVED

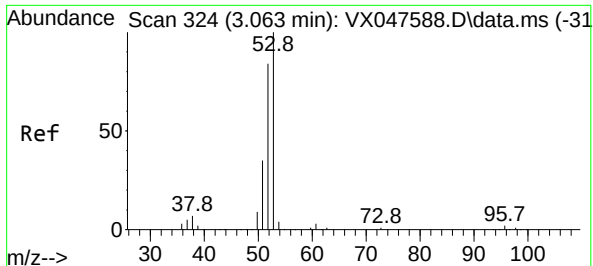
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#14
Allyl chloride
Concen: 17.472 ug/l
RT: 2.672 min Scan# 260
Delta R.T. 0.006 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Tgt Ion: 41 Resp: 59755
Ion Ratio Lower Upper
41 100
39 68.9 54.7 82.1
76 33.9 25.7 38.5





#15

Acrylonitrile

Concen: 89.286 ug/l

RT: 3.062 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

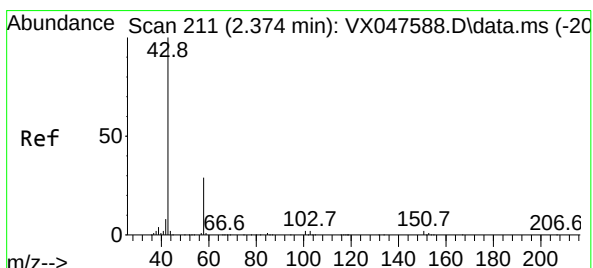
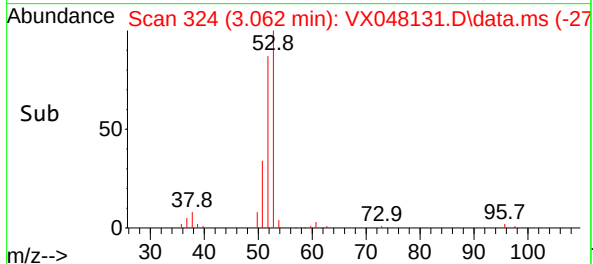
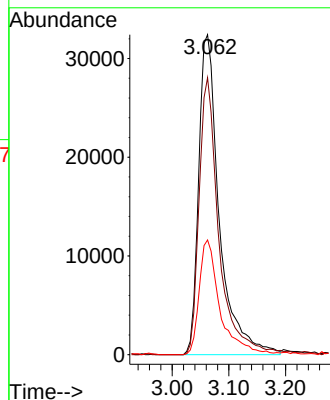
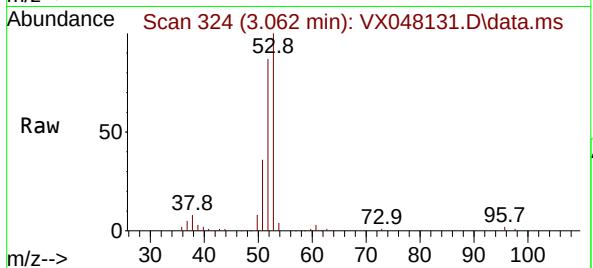
ClientSampleId :

VX1013WBSD01

Tgt Ion:	53	Resp:	81780
Ion	Ratio	Lower	Upper
53	100		
52	83.4	66.4	99.6
51	36.1	29.5	44.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#16

Acetone

Concen: 78.401 ug/l

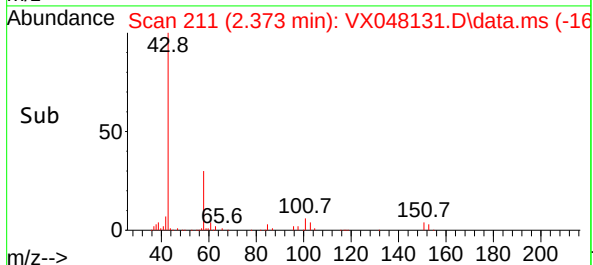
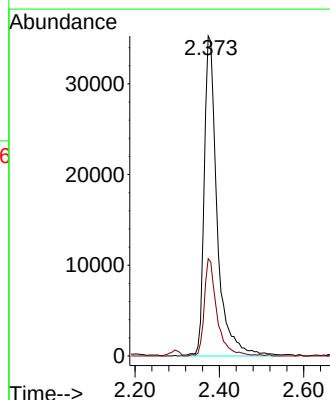
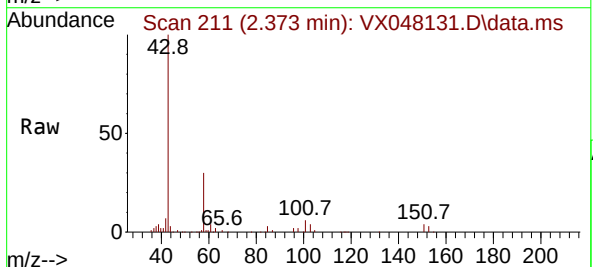
RT: 2.373 min Scan# 211

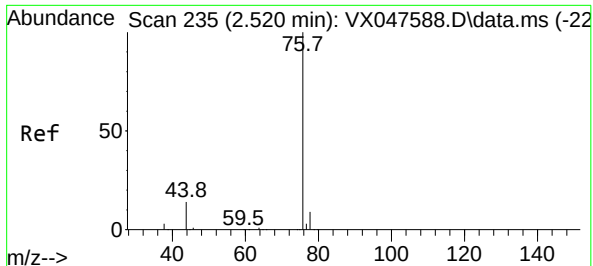
Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Tgt Ion:	43	Resp:	75692
Ion	Ratio	Lower	Upper
43	100		
58	30.4	23.4	35.0





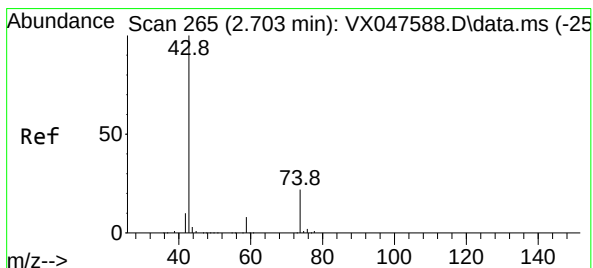
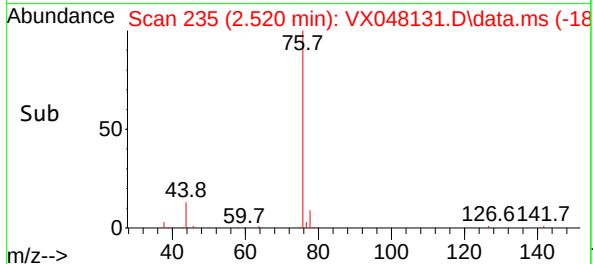
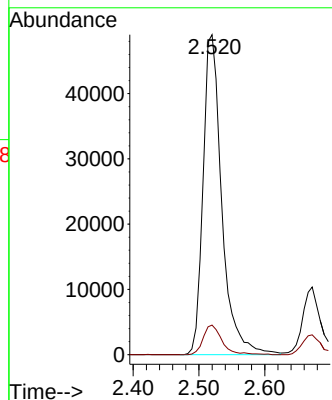
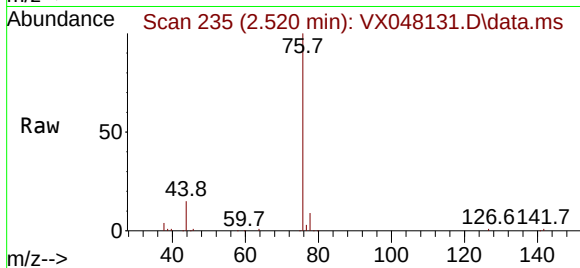
#17
Carbon Disulfide
Concen: 21.437 ug/l
RT: 2.520 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01

Tgt Ion: 76 Resp: 9726
Ion Ratio Lower Upper
76 100
78 9.5 6.8 10.2

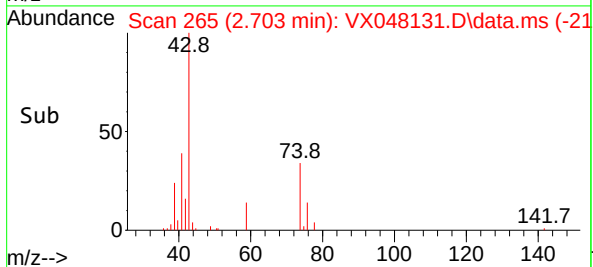
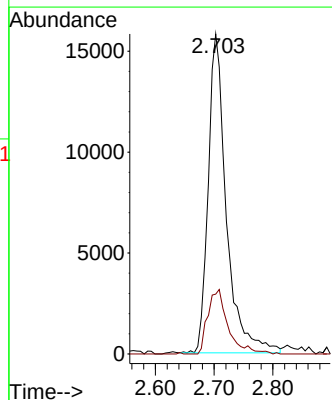
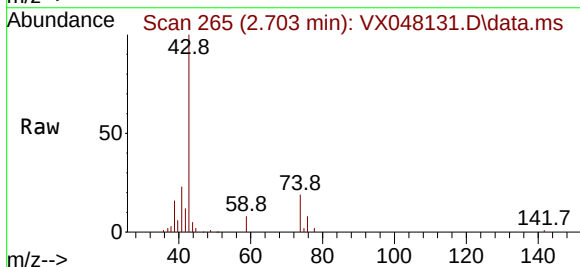
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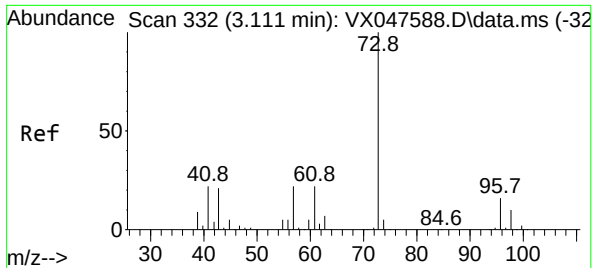
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#18
Methyl Acetate
Concen: 15.788 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Tgt Ion: 43 Resp: 33922
Ion Ratio Lower Upper
43 100
74 22.7 17.4 26.2





#19

Methyl tert-butyl Ether

Concen: 17.829 ug/l

RT: 3.111 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBSD01

Tgt Ion: 73 Resp: 10786

Ion Ratio Lower Upper

73 100

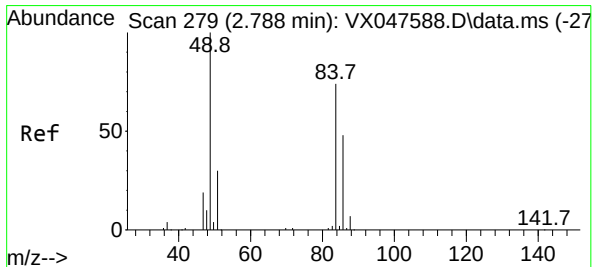
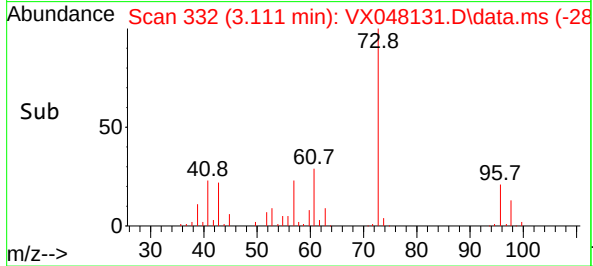
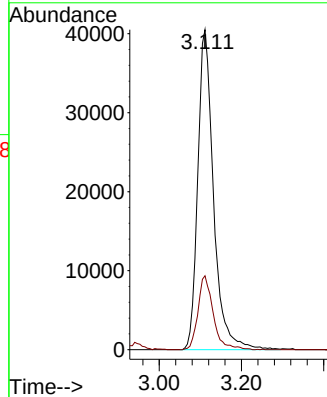
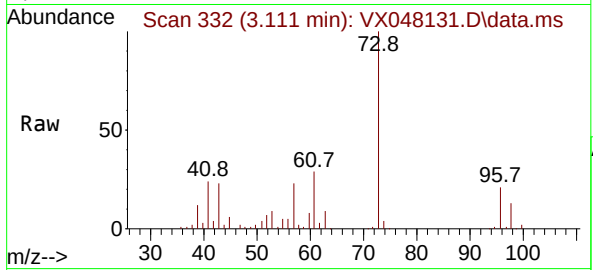
57 23.1 17.4 26.2

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Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#20

Methylene Chloride

Concen: 18.765 ug/l

RT: 2.794 min Scan# 280

Delta R.T. 0.006 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Tgt Ion: 84 Resp: 38349

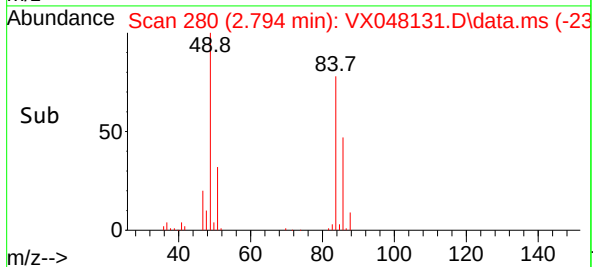
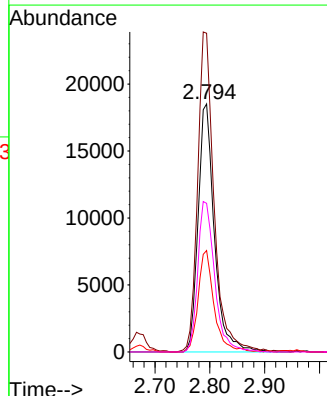
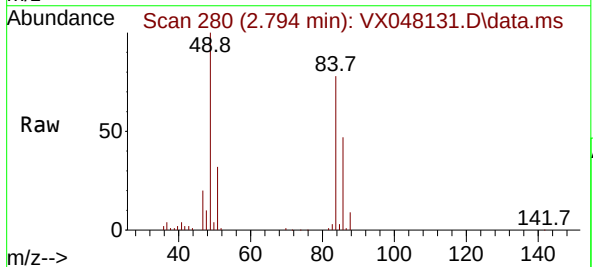
Ion Ratio Lower Upper

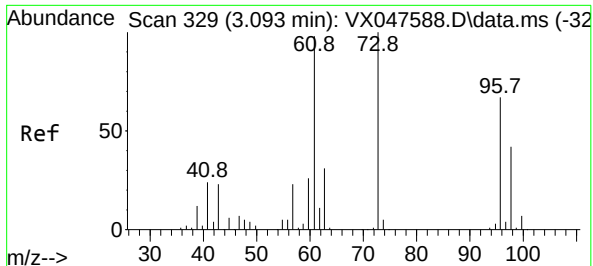
84 100

49 128.1 108.6 162.8

51 40.9 32.6 48.8

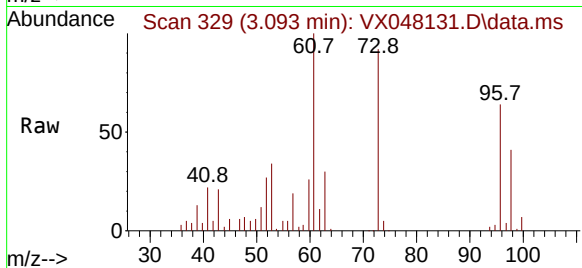
86 61.2 52.0 78.0





#21
trans-1,2-Dichloroethene
Concen: 19.477 ug/l
RT: 3.093 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

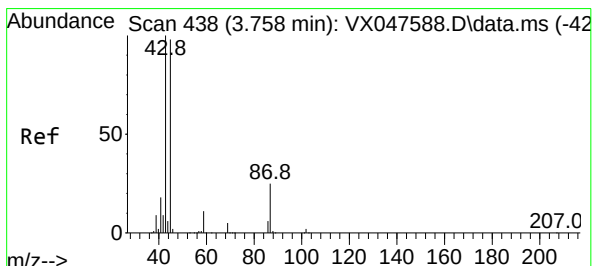
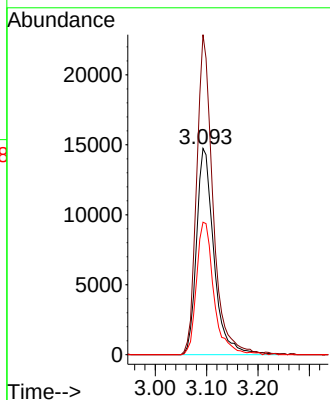
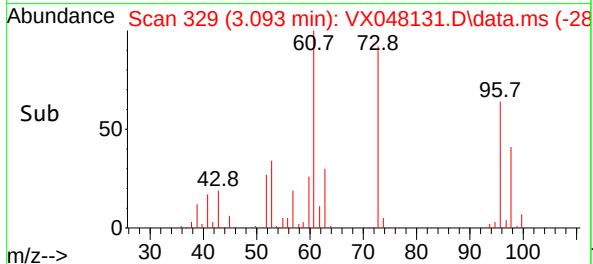
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01



Tgt Ion: 96 Resp: 34754
Ion Ratio Lower Upper
96 100
61 155.2 116.2 174.2
98 64.2 49.3 73.9

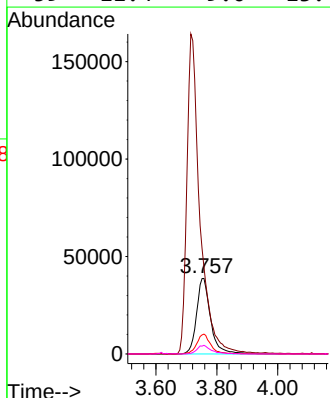
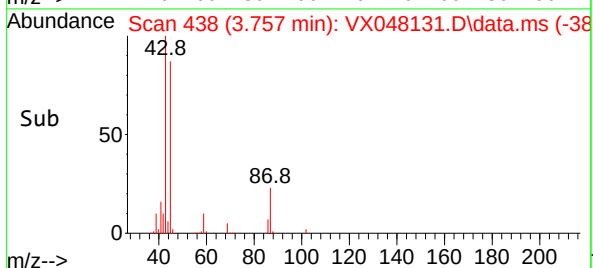
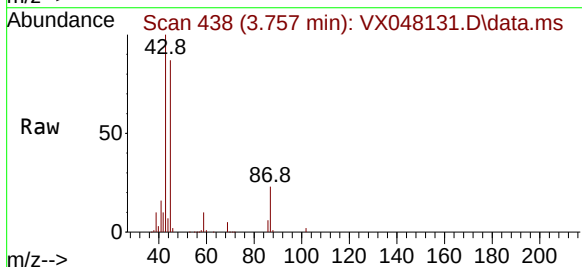
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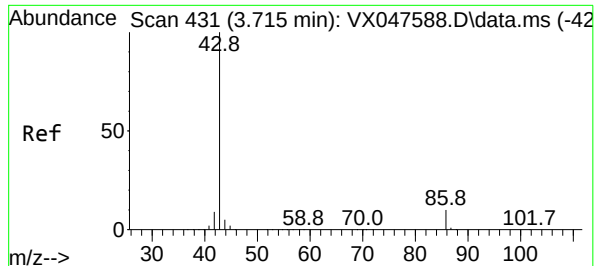
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#22
Diisopropyl ether
Concen: 18.631 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Tgt Ion: 45 Resp: 123489
Ion Ratio Lower Upper
45 100
43 114.2 81.0 121.4
87 26.2 20.3 30.5
59 11.4 9.0 13.4





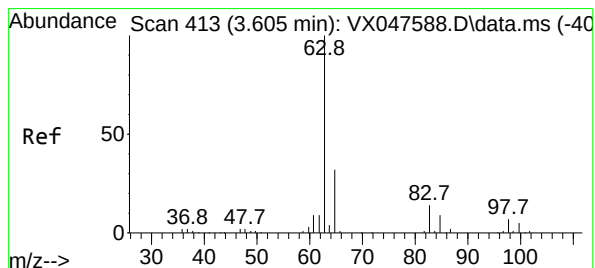
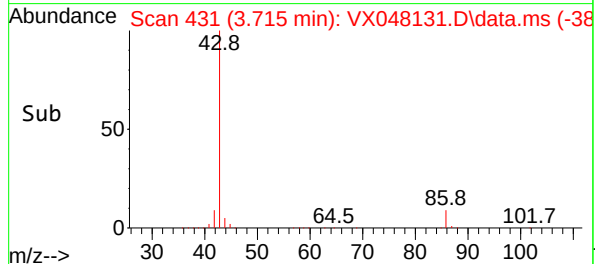
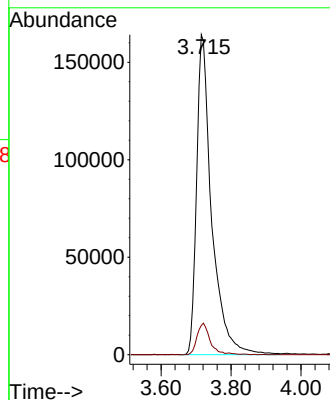
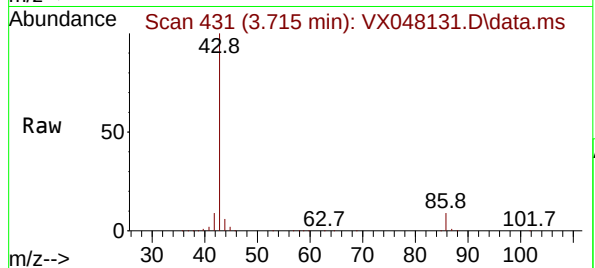
#23
Vinyl Acetate
Concen: 92.465 ug/l
RT: 3.715 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01

Tgt Ion: 43 Resp: 490504
Ion Ratio Lower Upper
43 100
86 9.2 7.8 11.8

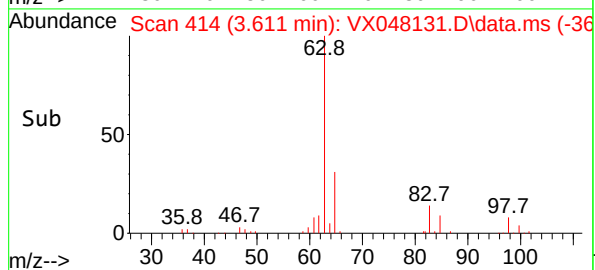
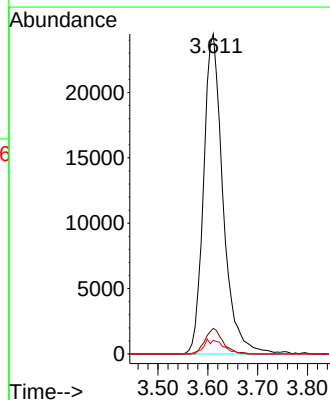
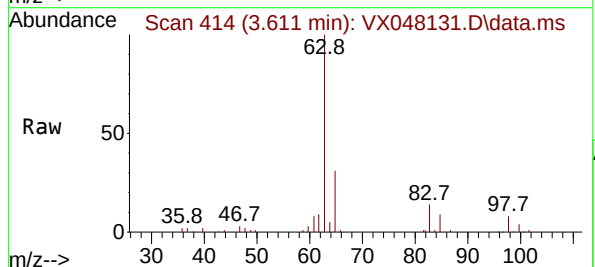
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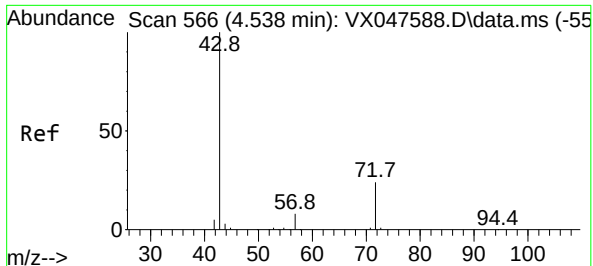
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#24
1,1-Dichloroethane
Concen: 18.808 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Tgt Ion: 63 Resp: 66260
Ion Ratio Lower Upper
63 100
98 8.4 3.8 11.2
100 4.5 2.3 6.9





#25

2-Butanone

Concen: 83.248 ug/l

RT: 4.544 min Scan# 50

Delta R.T. 0.006 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBSD01

Tgt Ion: 43 Resp: 100254

Ion Ratio Lower Upper

43 100

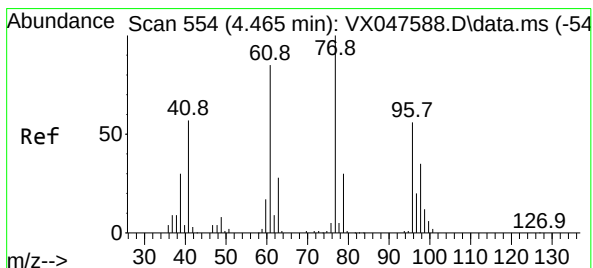
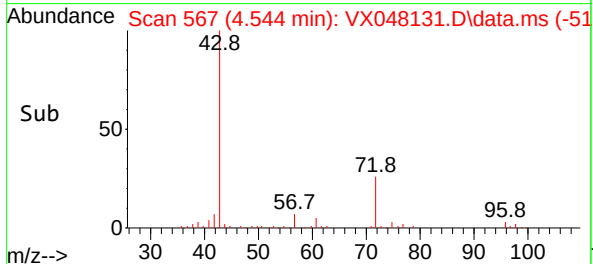
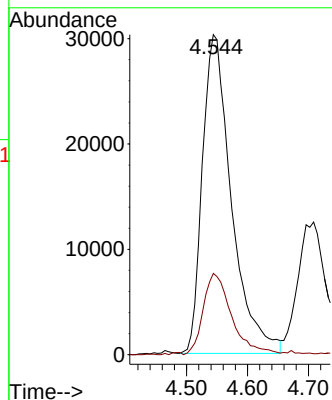
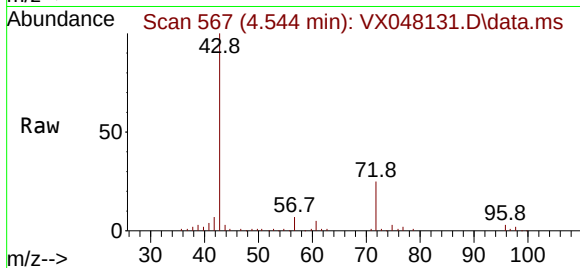
72 25.0 20.1 30.1

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Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#26

2,2-Dichloropropane

Concen: 19.021 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX048131.D

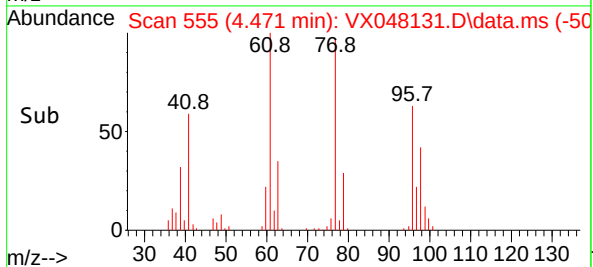
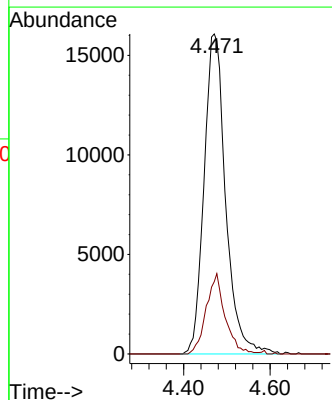
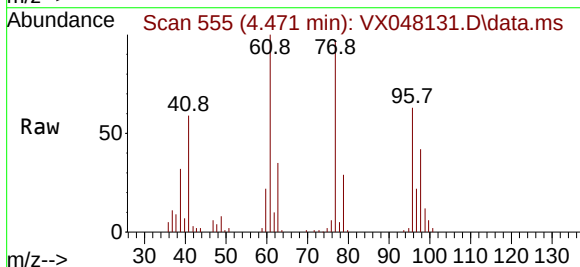
Acq: 13 Oct 2025 11:24

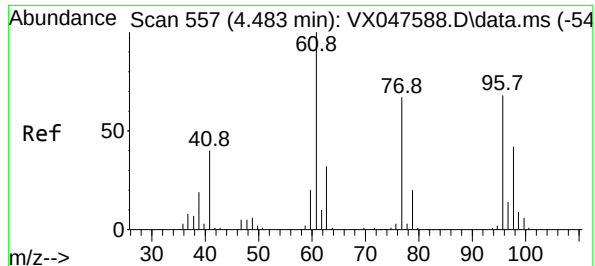
Tgt Ion: 77 Resp: 55703

Ion Ratio Lower Upper

77 100

97 22.0 10.9 32.7





#27

cis-1,2-Dichloroethene

Concen: 19.032 ug/l

RT: 4.489 min Scan# 557

Delta R.T. 0.006 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBSD01

Tgt Ion: 96 Resp: 41590

Ion Ratio Lower Upper

96 100

61 148.7 0.0 303.2

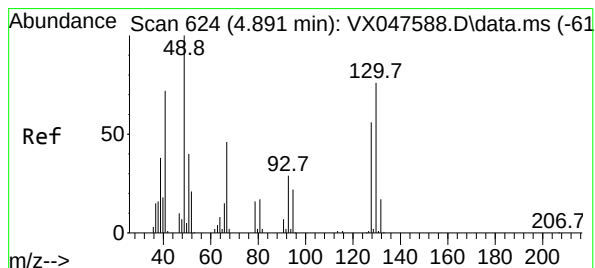
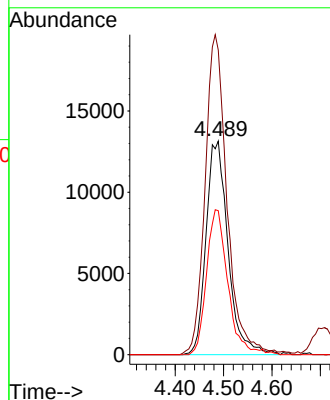
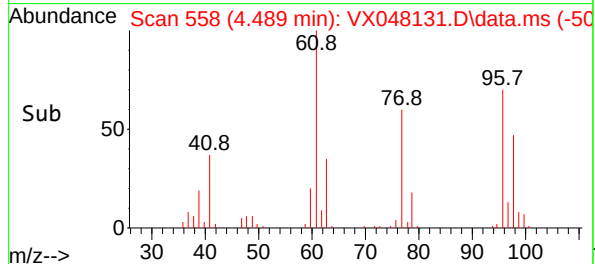
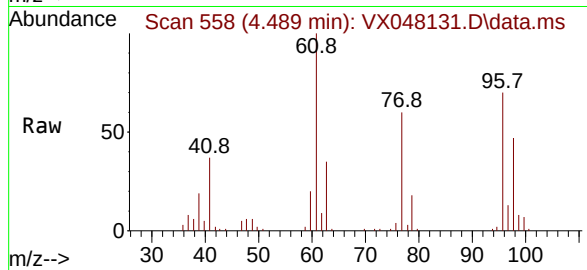
98 65.9 0.0 127.8

Manual Integrations

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Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#28

Bromochloromethane

Concen: 19.199 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

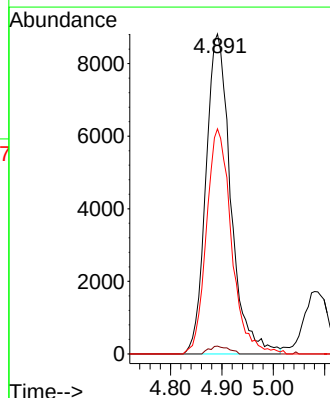
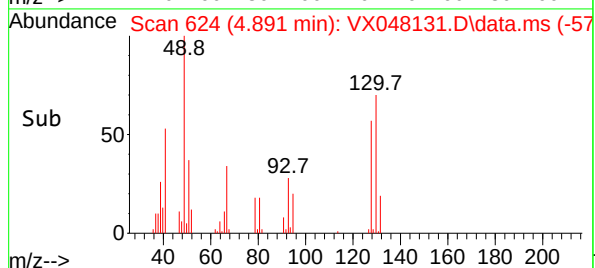
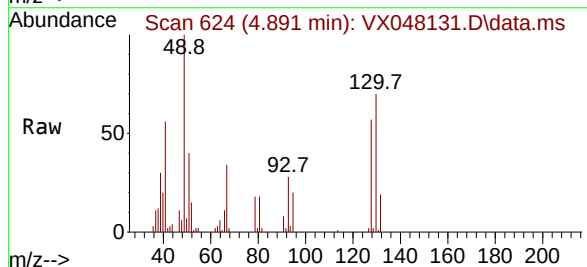
Tgt Ion: 49 Resp: 29527

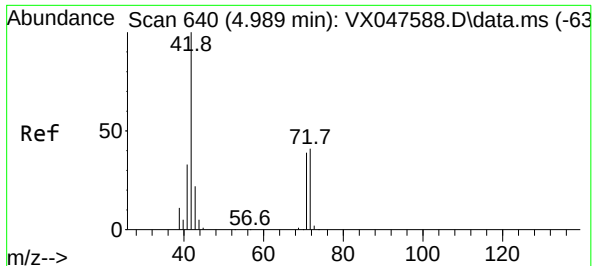
Ion Ratio Lower Upper

49 100

129 1.9 0.0 3.2

130 71.2 57.8 86.8





#29

Tetrahydrofuran

Concen: 82.954 ug/l

RT: 4.995 min Scan# 640

Delta R.T. 0.006 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

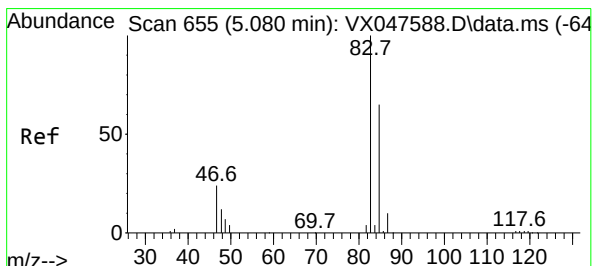
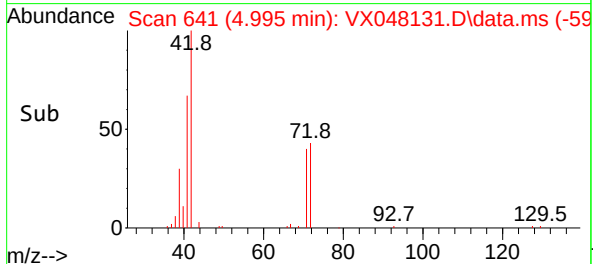
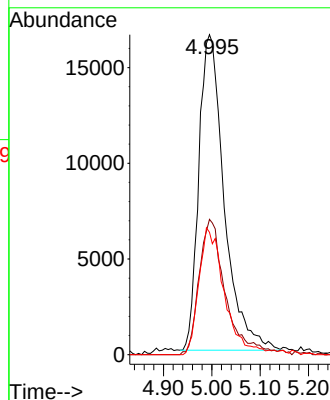
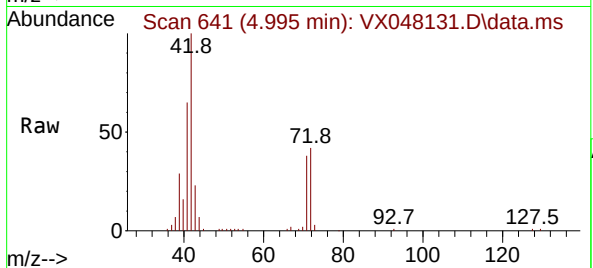
ClientSampleId :

VX1013WBSD01

Tgt Ion:	42	Resp:	6009
Ion Ratio	Lower	Upper	
42	100		
72	44.4	34.2	51.2
71	40.4	31.9	47.9

Manual Integrations
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Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#30

Chloroform

Concen: 19.720 ug/l

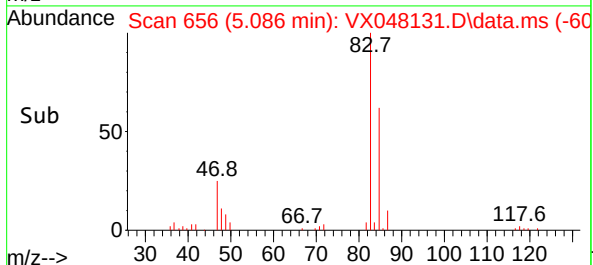
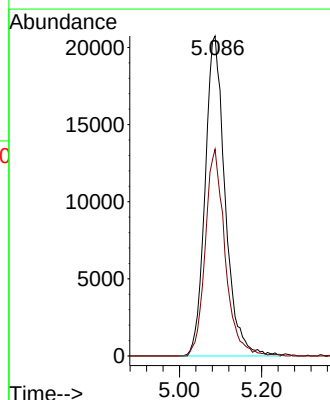
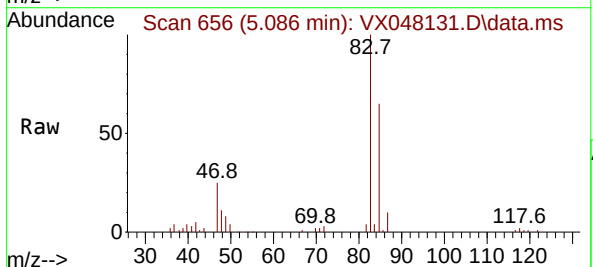
RT: 5.086 min Scan# 656

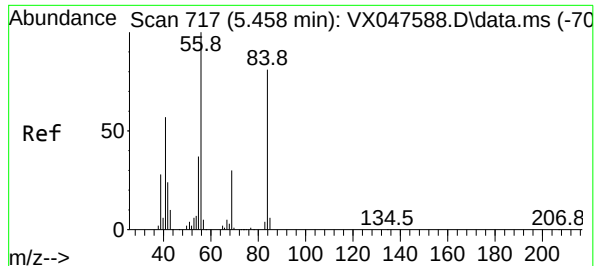
Delta R.T. 0.006 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Tgt Ion:	83	Resp:	70203
Ion Ratio	Lower	Upper	
83	100		
85	63.4	51.8	77.6





#31

Cyclohexane

Concen: 20.379 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

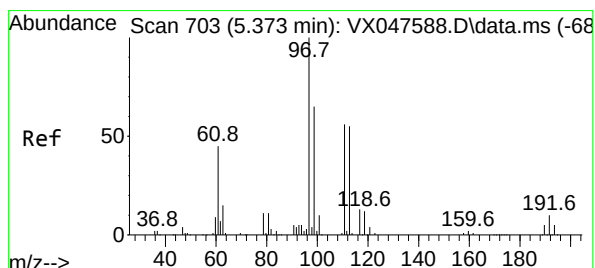
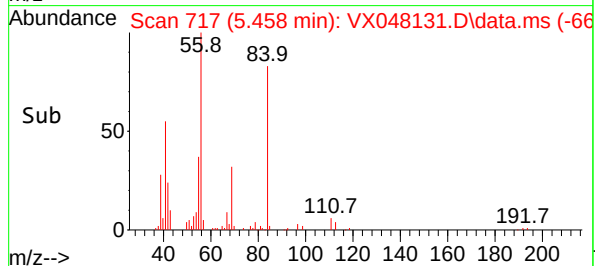
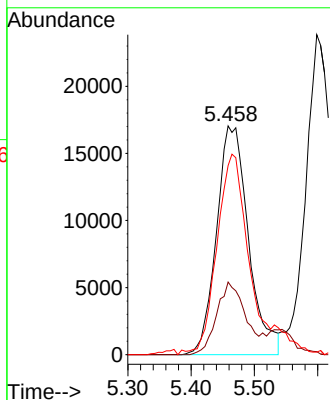
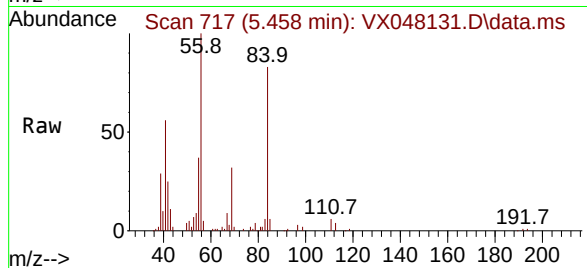
ClientSampleId :

VX1013WBSD01

Tgt Ion:	56	Resp:	5979
Ion Ratio	Lower	Upper	
56	100		
69	31.7	23.8	35.8
84	82.6	64.6	97.0

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Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#32

1,1,1-Trichloroethane

Concen: 19.962 ug/l

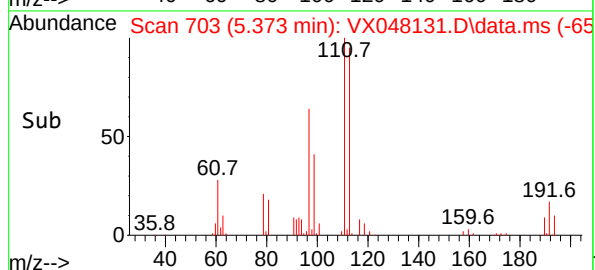
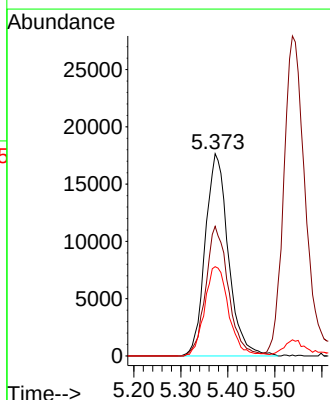
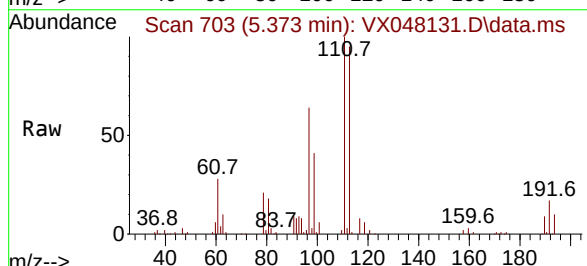
RT: 5.373 min Scan# 703

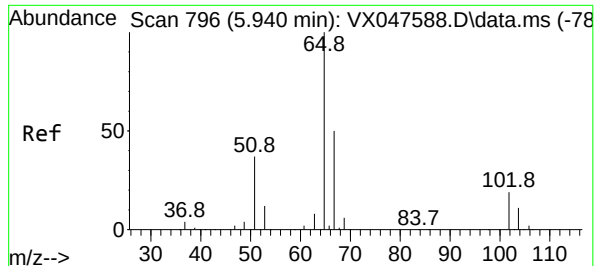
Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Tgt Ion:	97	Resp:	60278
Ion Ratio	Lower	Upper	
97	100		
99	62.8	50.6	76.0
61	46.1	35.8	53.8





#33

1,2-Dichloroethane-d4

Concen: 49.645 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBSD01

Tgt Ion: 65 Resp: 11023

Ion Ratio Lower Upper

65 100

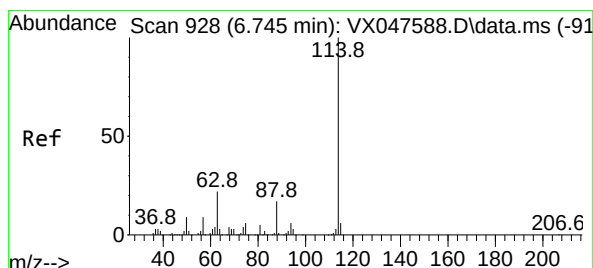
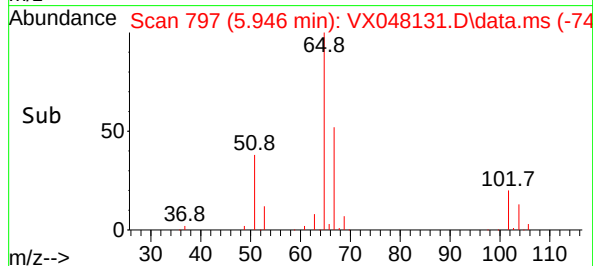
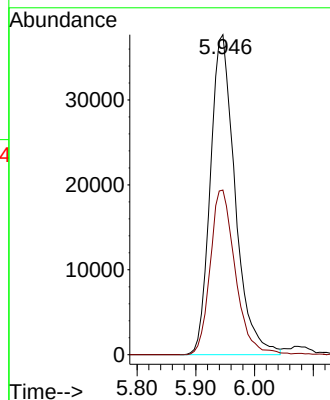
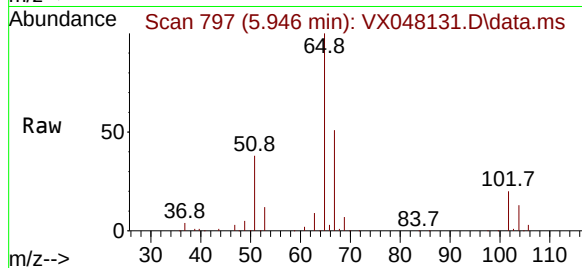
67 52.2 0.0 103.0

Manual Integrations

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Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

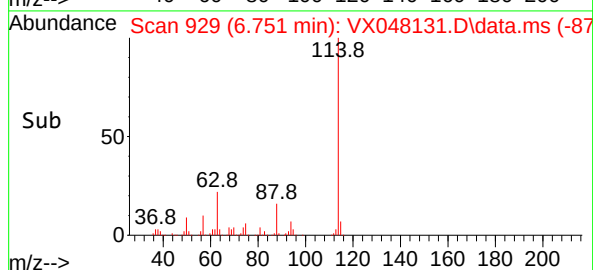
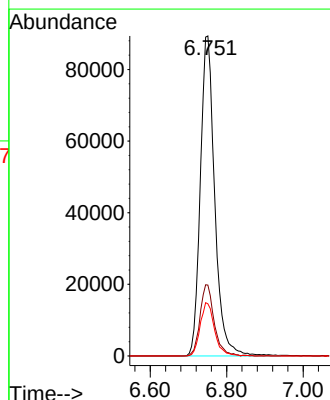
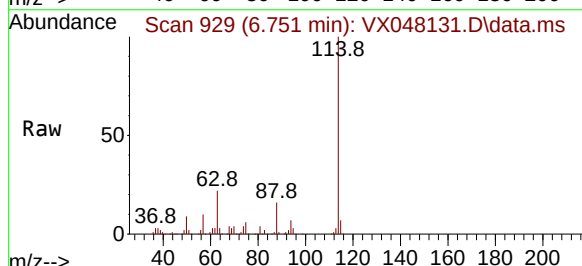
Tgt Ion:114 Resp: 233746

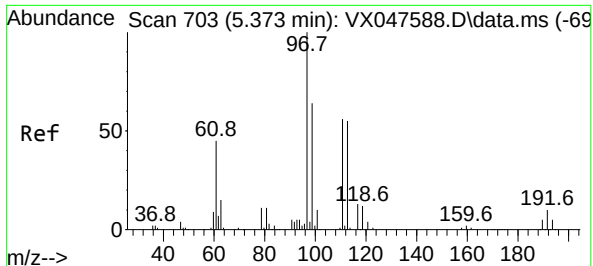
Ion Ratio Lower Upper

114 100

63 22.1 0.0 44.0

88 16.3 0.0 34.2





#35

Dibromofluoromethane

Concen: 55.773 ug/l

RT: 5.379 min Scan# 703

Delta R.T. 0.006 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBSD01

Tgt Ion:113 Resp: 8743

Ion Ratio Lower Upper

113 100

111 103.6 80.9 121.3

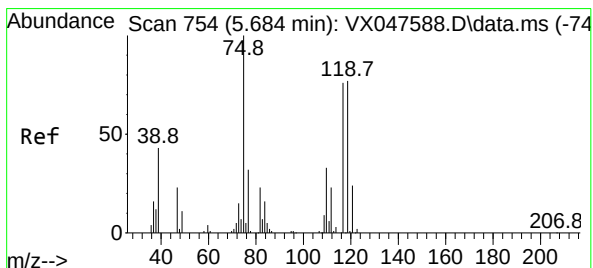
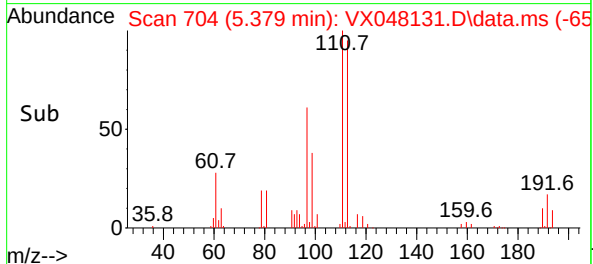
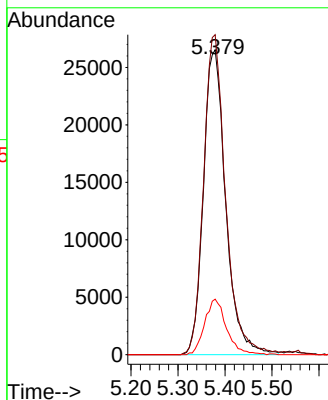
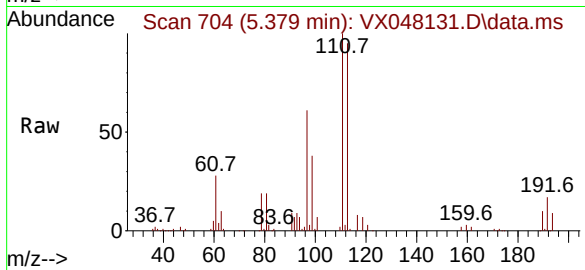
192 17.8 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#36

1,1-Dichloropropene

Concen: 20.193 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

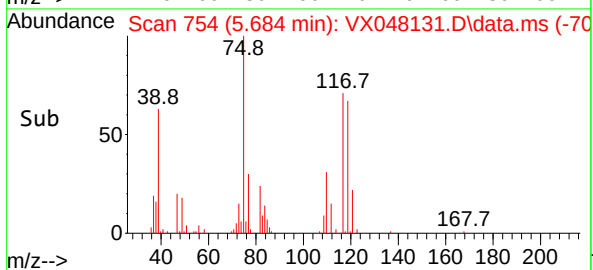
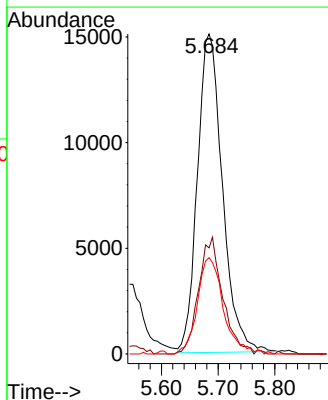
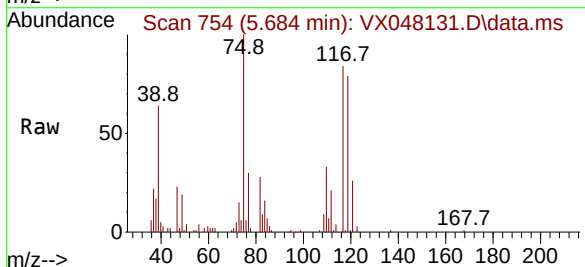
Tgt Ion: 75 Resp: 46256

Ion Ratio Lower Upper

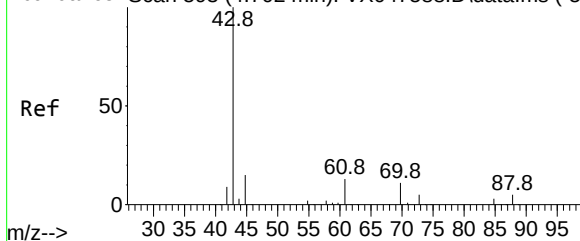
75 100

110 35.1 16.7 50.1

77 31.4 24.3 36.5



Abundance Scan 593 (4.702 min): VX047588.D\data.ms (-58



#37

Ethyl Acetate

Concen: 17.410 ug/l

RT: 4.708 min Scan# 593

Delta R.T. 0.006 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

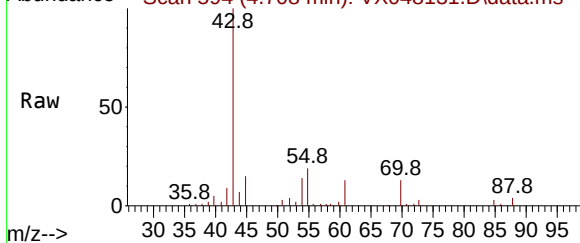
ClientSampleId :

VX1013WBSD01

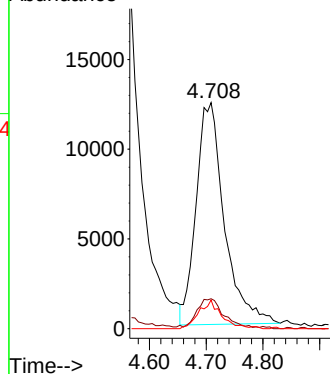
Tgt Ion:	43	Resp:	4270
Ion	Ratio	Lower	Upper
43	100		
61	11.8	9.8	14.8
70	10.2	7.9	11.9

Manual Integrations
APPROVEDReviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

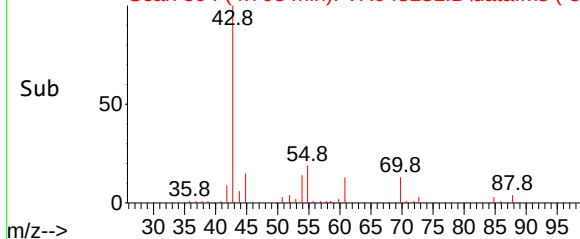
Abundance Scan 594 (4.708 min): VX048131.D\data.ms



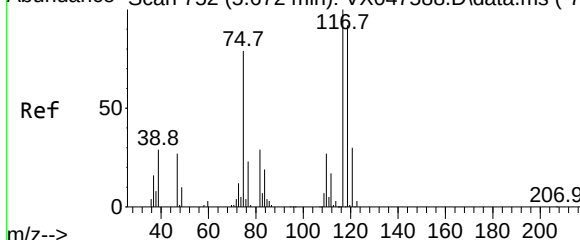
Abundance



Abundance Scan 594 (4.708 min): VX048131.D\data.ms (-54



Abundance Scan 752 (5.672 min): VX047588.D\data.ms (-74



#38

Carbon Tetrachloride

Concen: 21.475 ug/l

RT: 5.666 min Scan# 751

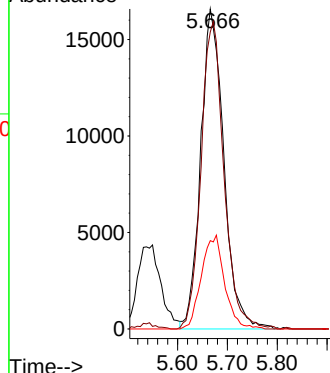
Delta R.T. -0.006 min

Lab File: VX048131.D

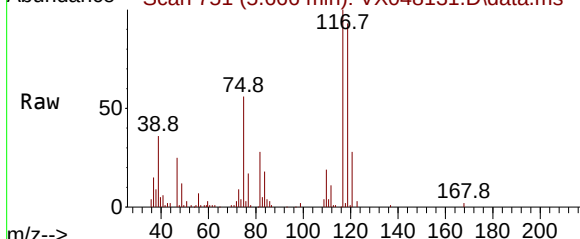
Acq: 13 Oct 2025 11:24

Tgt Ion:	117	Resp:	53447
Ion	Ratio	Lower	Upper
117	100		
119	92.8	73.4	110.2
121	27.6	23.8	35.6

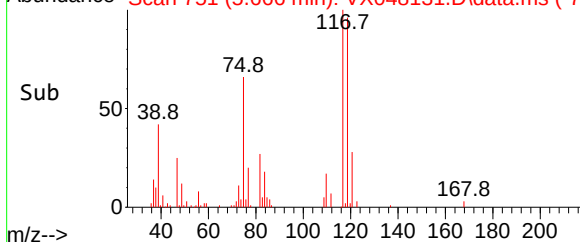
Abundance

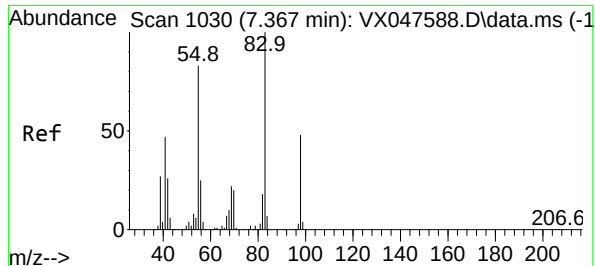


Abundance Scan 751 (5.666 min): VX048131.D\data.ms



Abundance Scan 751 (5.666 min): VX048131.D\data.ms (-70





#39

Methylcyclohexane

Concen: 22.030 ug/l

RT: 7.366 min Scan# 1030

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

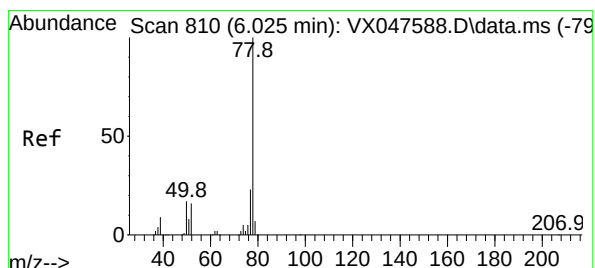
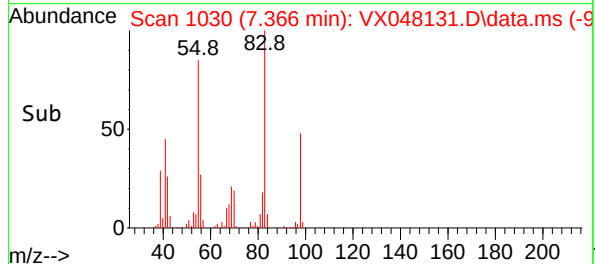
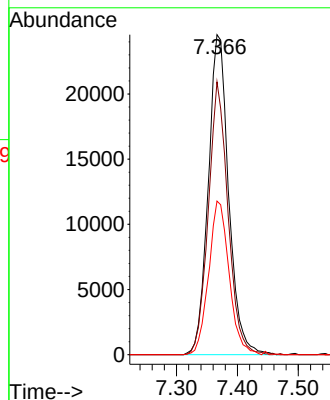
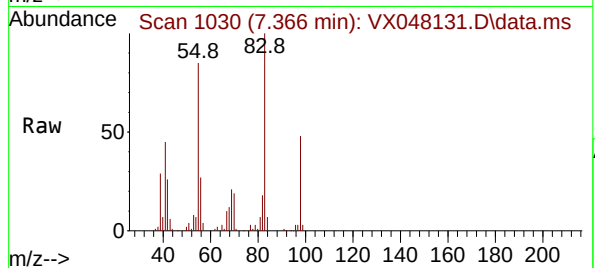
VX1013WBSD01

Tgt Ion:	83	Resp:	5728
Ion Ratio	Lower	Upper	
83	100		
55	85.2	66.4	99.6
98	48.0	38.1	57.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#40

Benzene

Concen: 20.453 ug/l

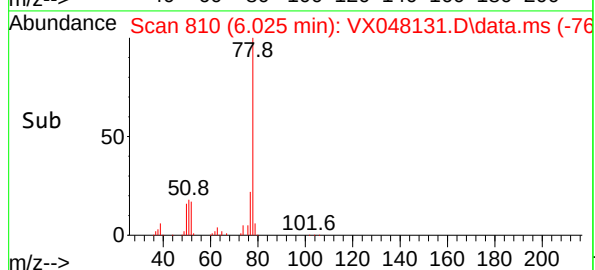
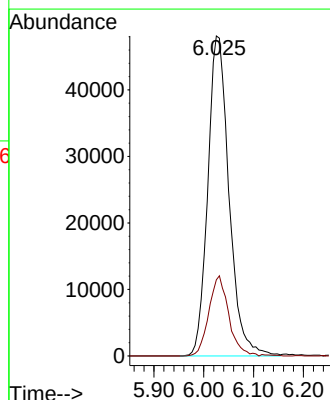
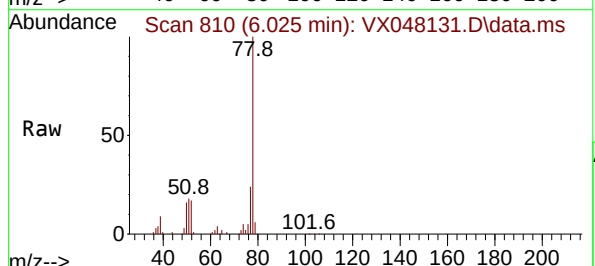
RT: 6.025 min Scan# 810

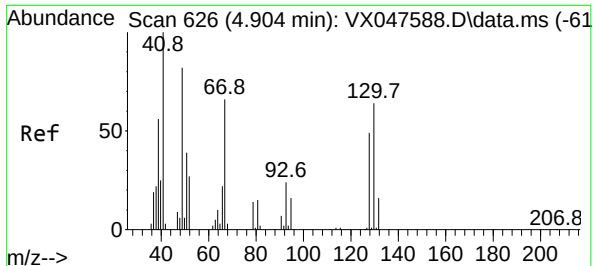
Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

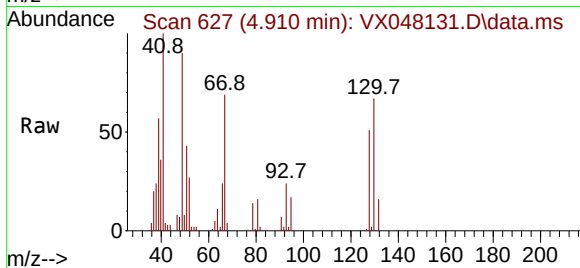
Tgt Ion:	78	Resp:	142301
Ion Ratio	Lower	Upper	
78	100		
77	23.8	18.8	28.2





#41
Methacrylonitrile
Concen: 18.603 ug/l
RT: 4.910 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

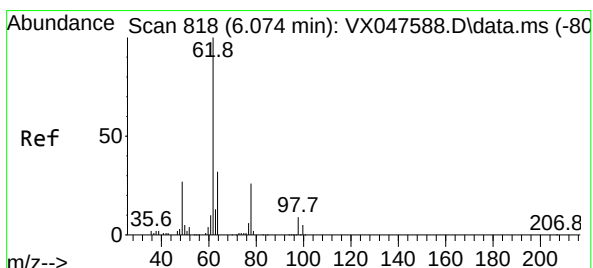
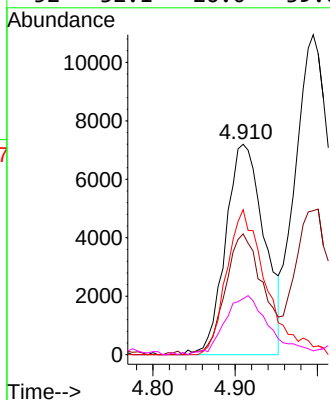
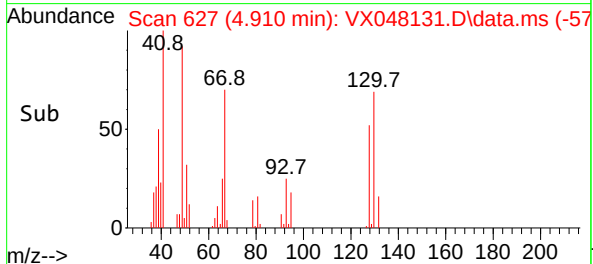
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01



Tgt Ion: 41 Resp: 2355
Ion Ratio Lower Upper
41 100
39 55.8 43.3 64.9
67 70.9 58.6 87.8
52 32.1 26.0 39.0

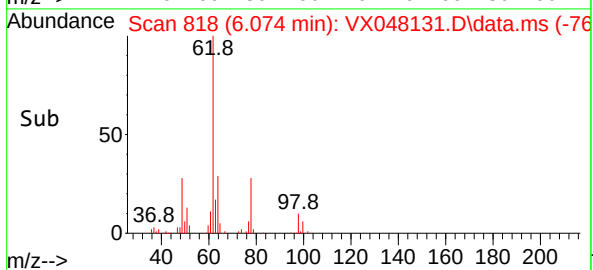
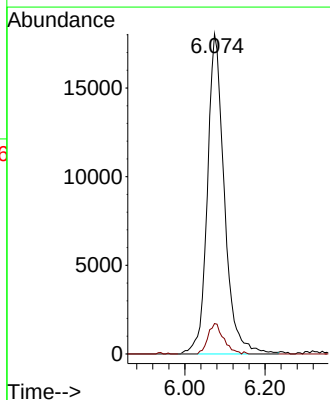
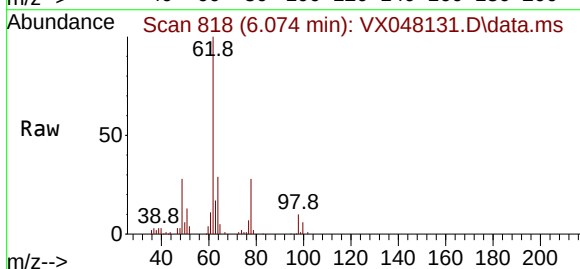
Manual Integrations
APPROVED

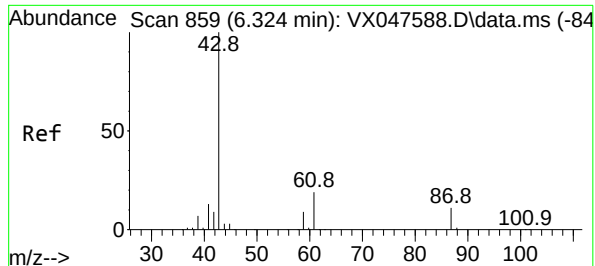
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#42
1,2-Dichloroethane
Concen: 20.042 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Tgt Ion: 62 Resp: 53054
Ion Ratio Lower Upper
62 100
98 8.7 0.0 17.0





#43

Isopropyl Acetate

Concen: 18.089 ug/l

RT: 6.324 min Scan# 81

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

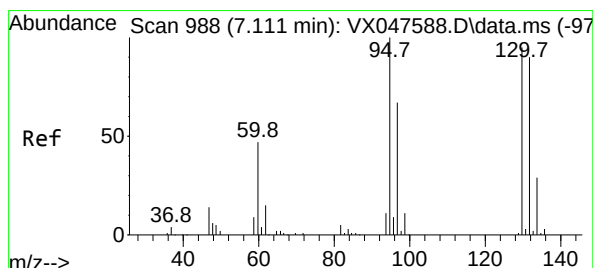
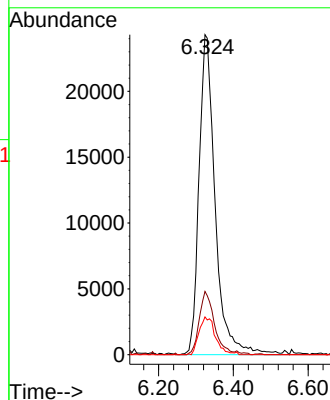
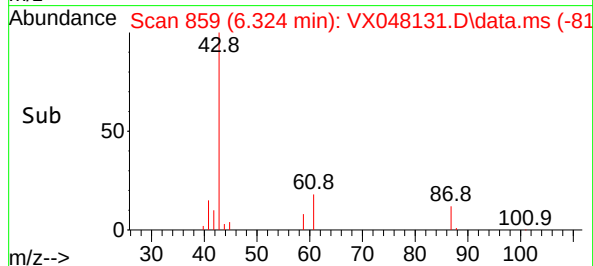
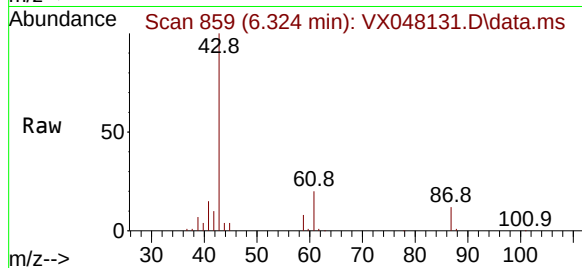
VX1013WBSD01

Tgt Ion:	43	Resp:	7276
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 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#44

Trichloroethene

Concen: 21.035 ug/l

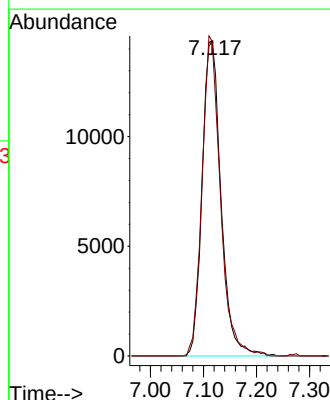
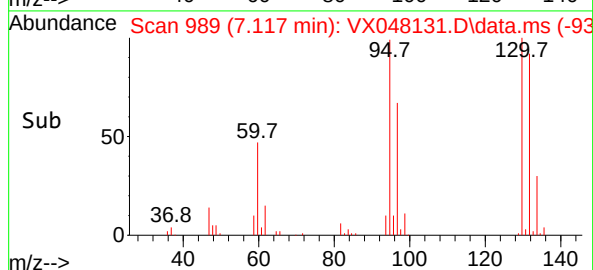
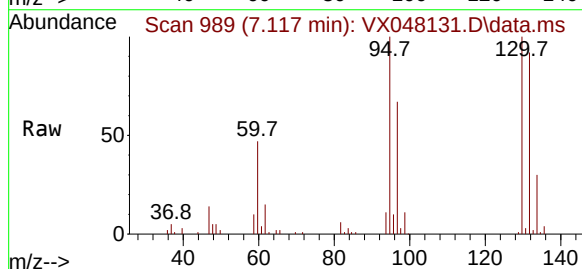
RT: 7.117 min Scan# 989

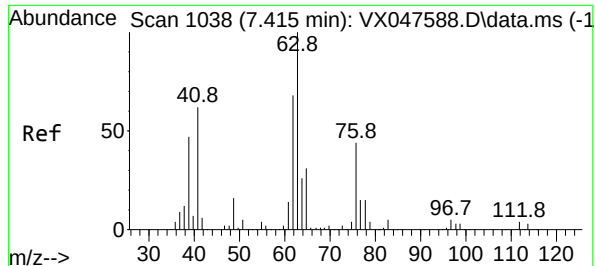
Delta R.T. 0.006 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Tgt Ion:	130	Resp:	35381
Ion Ratio	Lower	Upper	
130	100		
95	100.1	0.0	210.8





#45

1,2-Dichloropropane

Concen: 20.177 ug/l

RT: 7.415 min Scan# 1038

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBSD01

Tgt Ion: 63 Resp: 3594

Ion Ratio Lower Upper

63 100

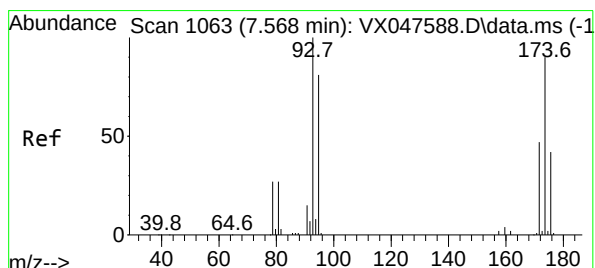
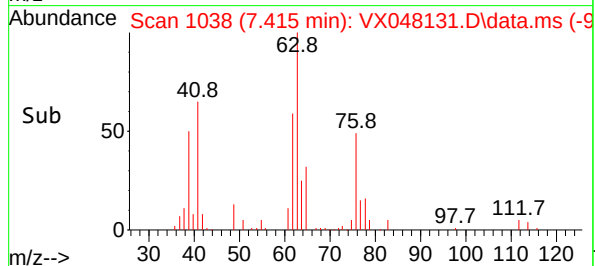
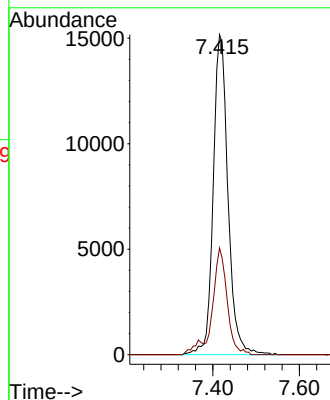
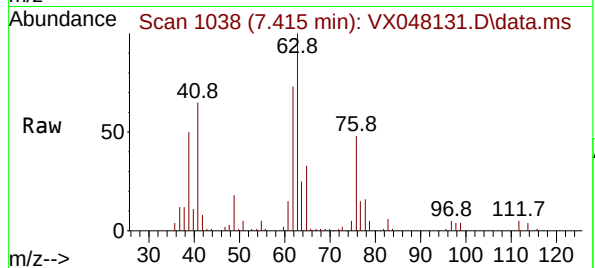
65 33.3 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#46

Dibromomethane

Concen: 20.446 ug/l

RT: 7.568 min Scan# 1063

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

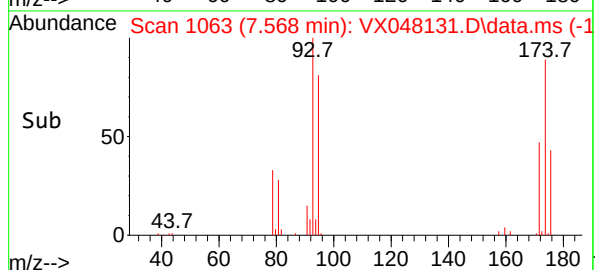
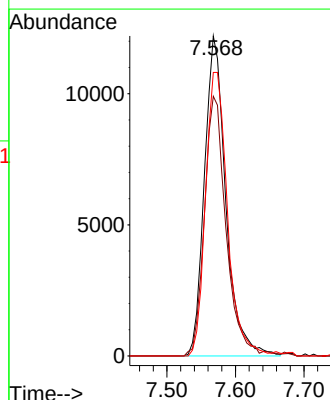
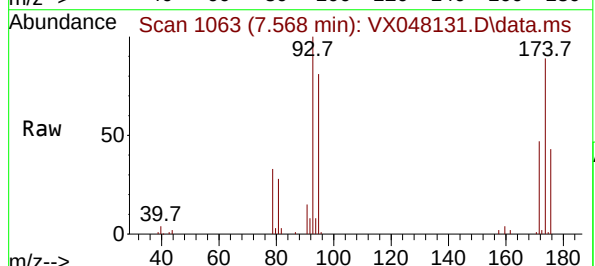
Tgt Ion: 93 Resp: 26506

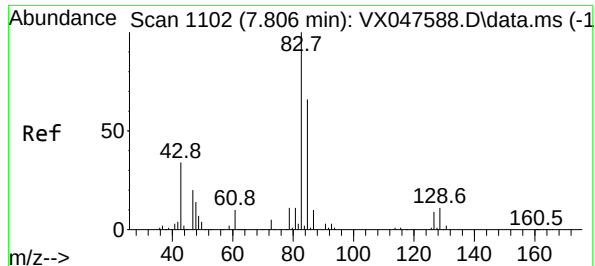
Ion Ratio Lower Upper

93 100

95 82.3 65.0 97.6

174 91.1 71.6 107.4





#47

Bromodichloromethane

Concen: 21.065 ug/l

RT: 7.805 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

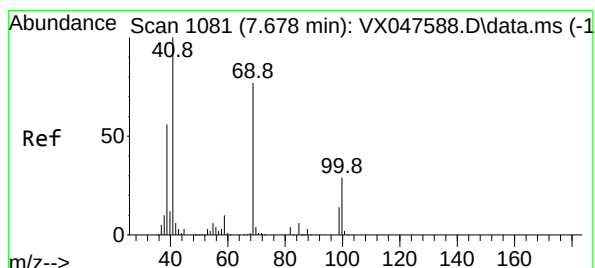
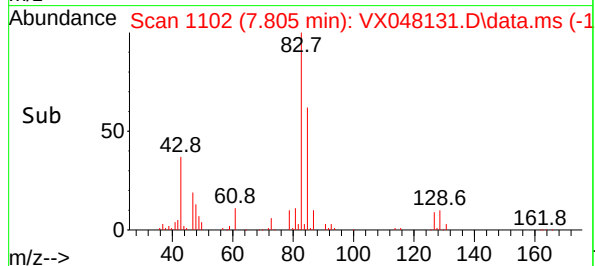
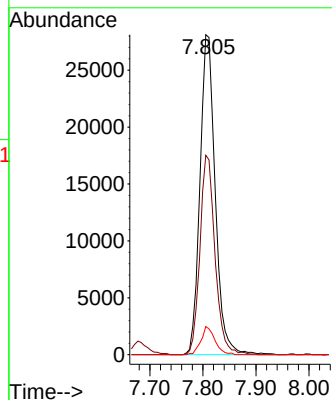
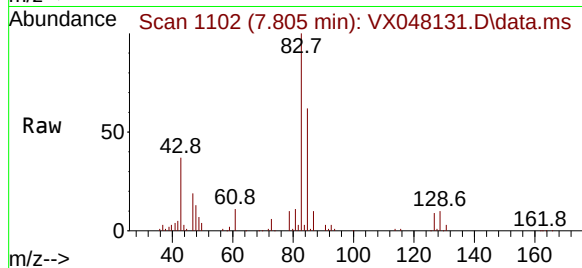
VX1013WBSD01

Tgt Ion:	83	Resp:	5635
Ion	Ratio	Lower	Upper
83	100		
85	62.3	52.5	78.7
127	8.8	6.9	10.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#48

Methyl methacrylate

Concen: 17.806 ug/l

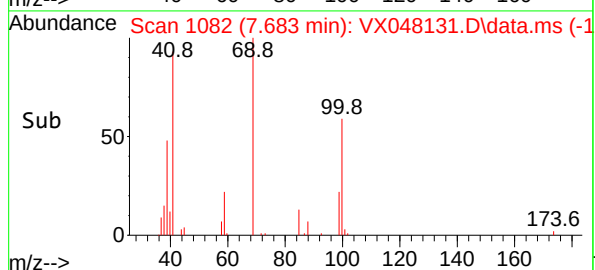
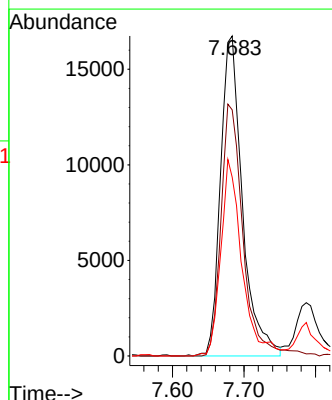
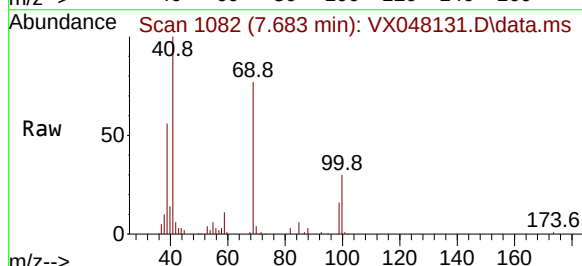
RT: 7.683 min Scan# 1082

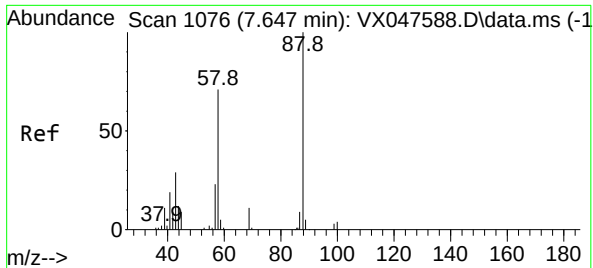
Delta R.T. 0.006 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Tgt Ion:	41	Resp:	35678
Ion	Ratio	Lower	Upper
41	100		
69	79.1	61.4	92.2
39	59.4	45.8	68.6





#49

1,4-Dioxane

Concen: 413.006 ug/l

RT: 7.647 min Scan# 1076

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBSD01

Tgt Ion: 88 Resp: 836

Ion Ratio Lower Upper

88 100

43 0.0 30.2 45.2

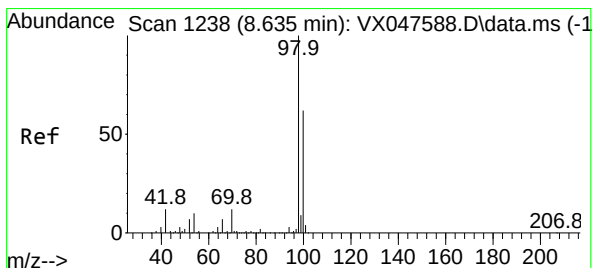
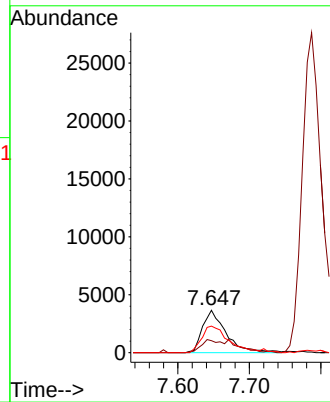
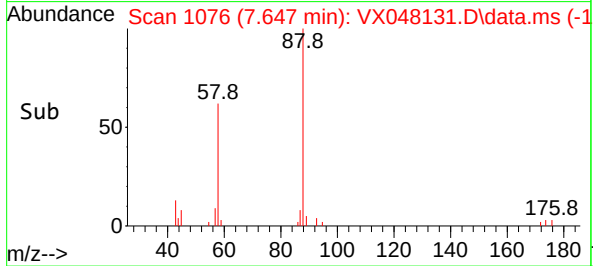
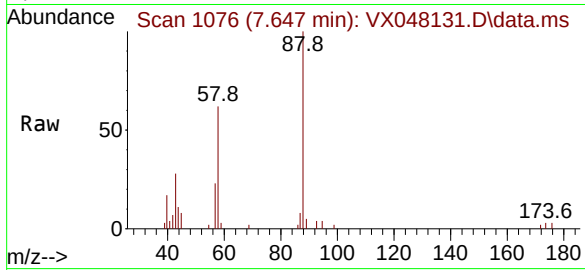
58 70.7 59.5 89.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#50

Toluene-d8

Concen: 53.890 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX048131.D

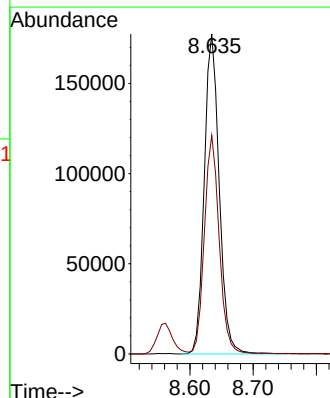
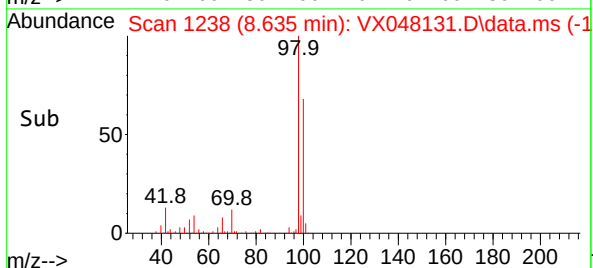
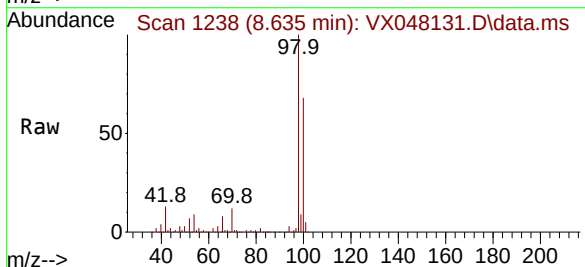
Acq: 13 Oct 2025 11:24

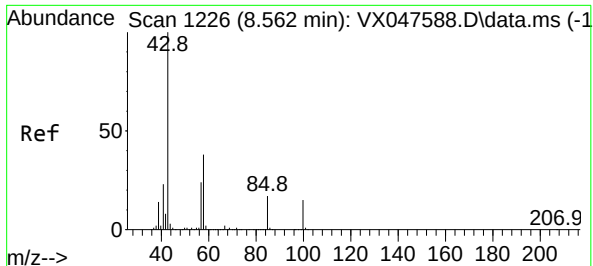
Tgt Ion: 98 Resp: 292315

Ion Ratio Lower Upper

98 100

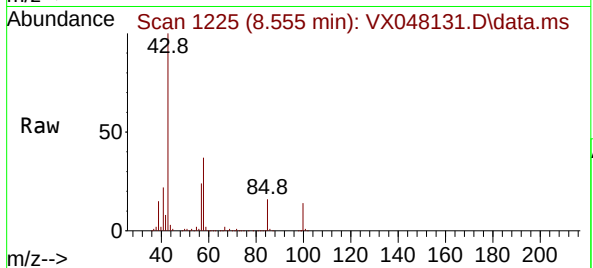
100 67.6 53.0 79.4





#51
4-Methyl-2-Pentanone
Concen: 94.498 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.006 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

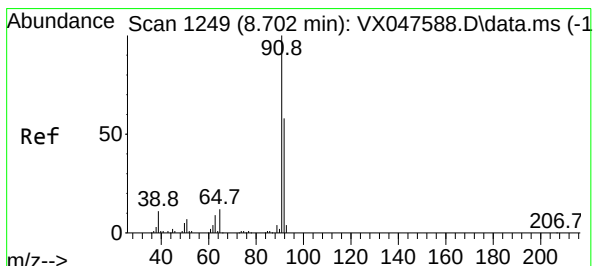
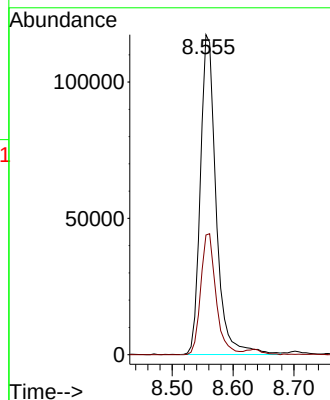
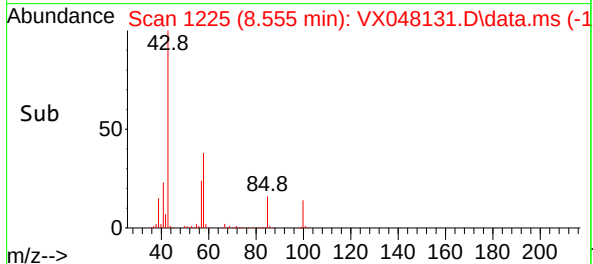
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01



Tgt Ion: 43 Resp: 210754
Ion Ratio Lower Upper
43 100
58 36.6 30.3 45.5

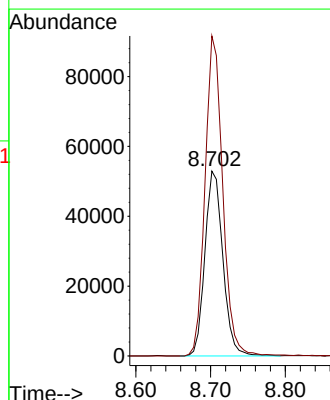
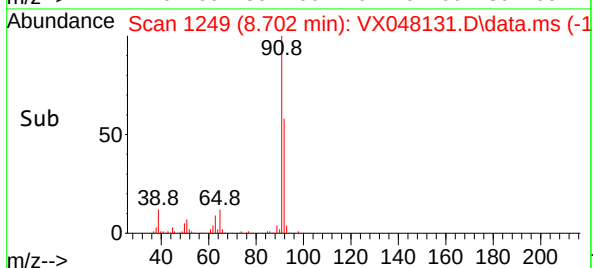
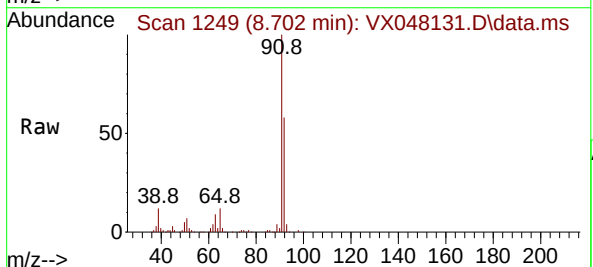
Manual Integrations
APPROVED

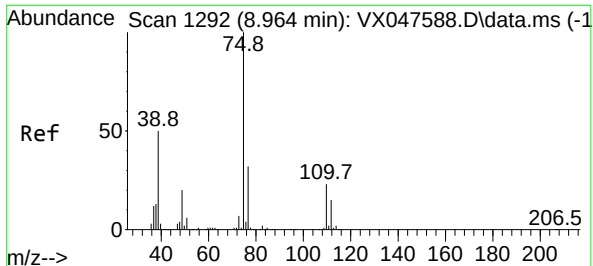
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#52
Toluene
Concen: 20.650 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Tgt Ion: 92 Resp: 88514
Ion Ratio Lower Upper
92 100
91 170.1 137.1 205.7





#53

t-1,3-Dichloropropene

Concen: 19.657 ug/l

RT: 8.964 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBSD01

Tgt Ion: 75 Resp: 53639

Ion Ratio Lower Upper

75 100

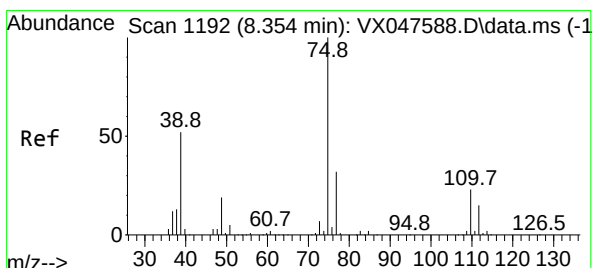
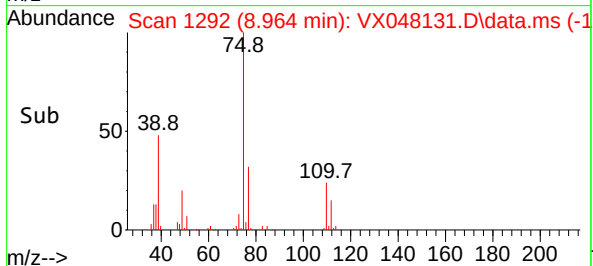
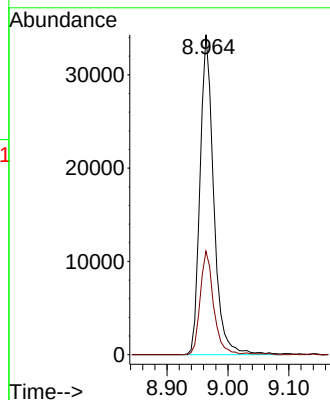
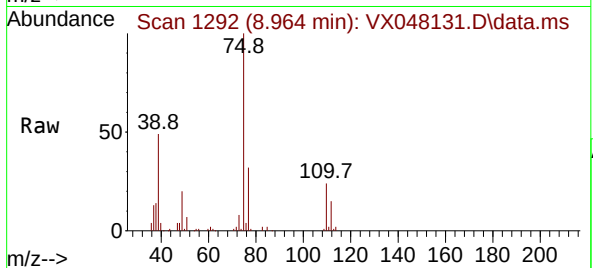
77 32.4 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#54

cis-1,3-Dichloropropene

Concen: 20.253 ug/l

RT: 8.354 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

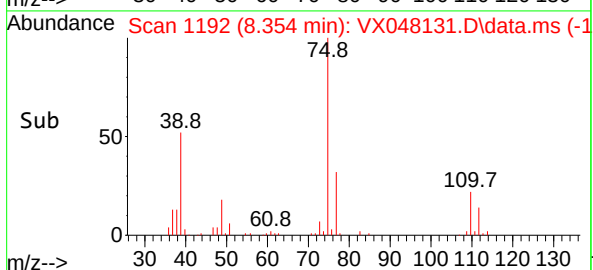
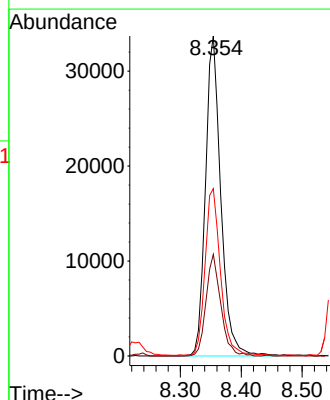
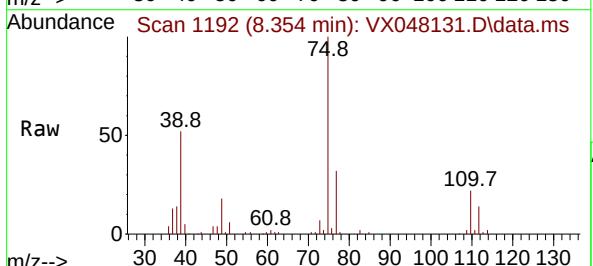
Tgt Ion: 75 Resp: 59070

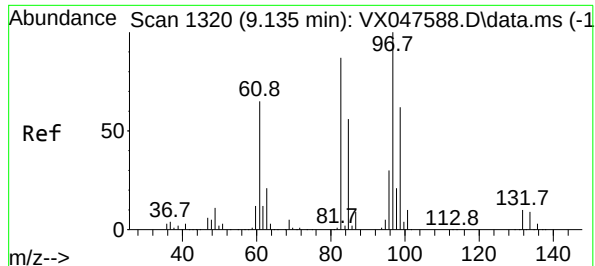
Ion Ratio Lower Upper

75 100

77 31.8 25.8 38.6

39 51.9 41.4 62.2





#55

1,1,2-Trichloroethane

Concen: 20.668 ug/l

RT: 9.134 min Scan# 1320

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBSD01

Tgt Ion: 97 Resp: 34160

Ion Ratio Lower Upper

97 100

83 84.0 69.6 104.4

85 53.7 45.0 67.6

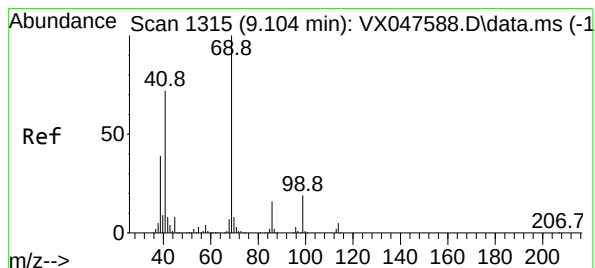
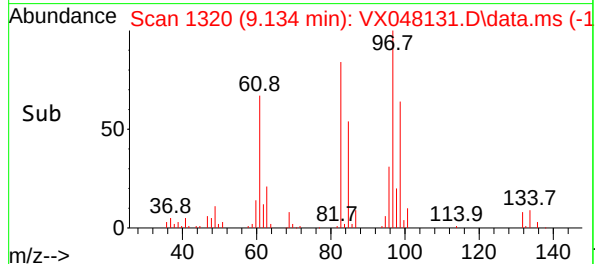
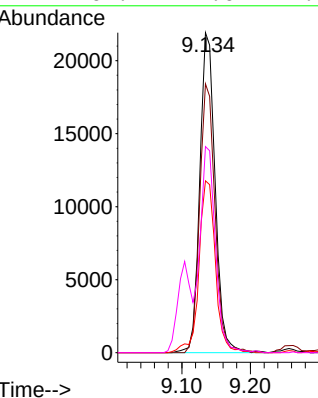
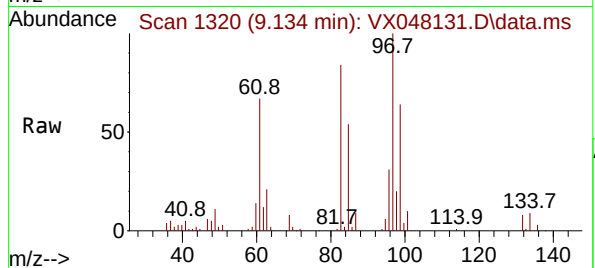
99 64.4 49.6 74.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#56

Ethyl methacrylate

Concen: 18.231 ug/l

RT: 9.104 min Scan# 1315

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

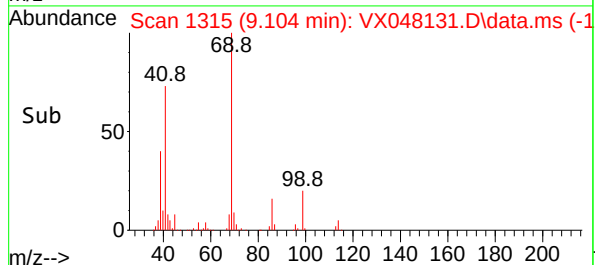
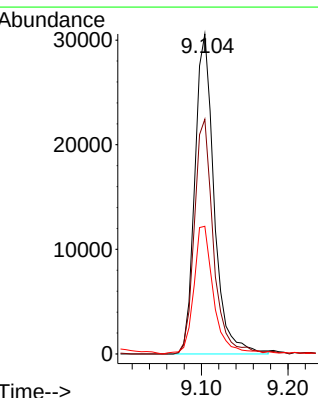
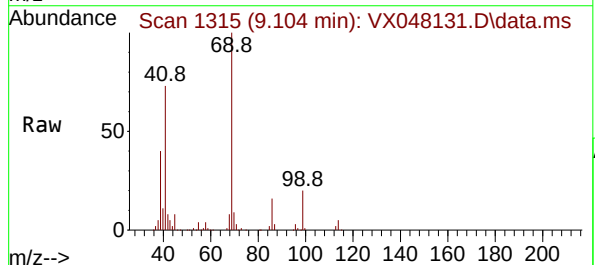
Tgt Ion: 69 Resp: 47323

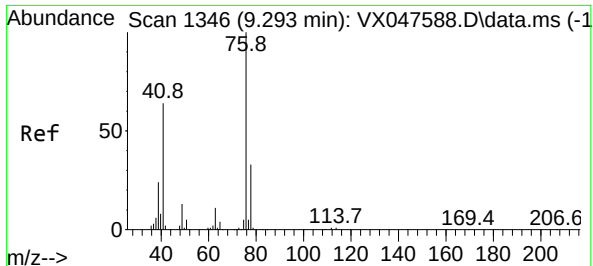
Ion Ratio Lower Upper

69 100

41 73.0 58.6 87.8

39 41.3 31.5 47.3





#57

1,3-Dichloropropane

Concen: 20.672 ug/l

RT: 9.293 min Scan# 11346

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBSD01

Tgt Ion: 76 Resp: 5869

Ion Ratio Lower Upper

76 100

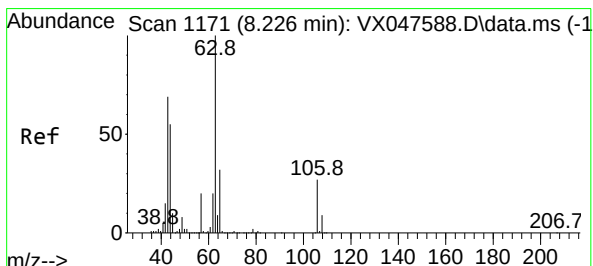
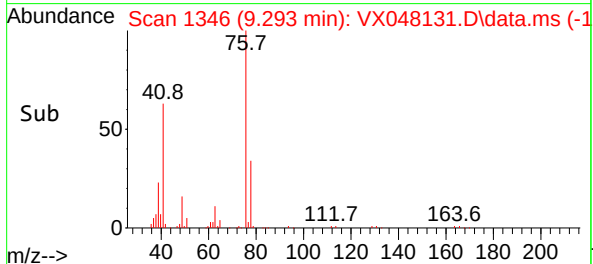
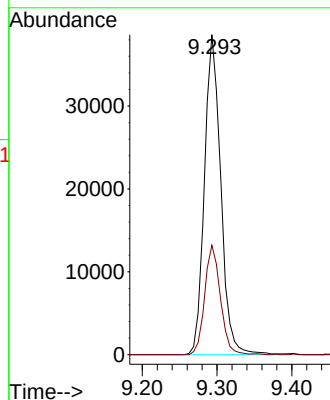
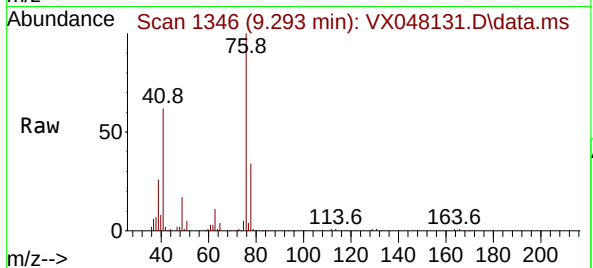
78 32.8 26.2 39.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#58

2-Chloroethyl Vinyl ether

Concen: 98.475 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX048131.D

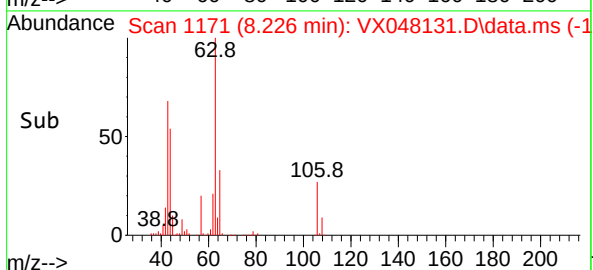
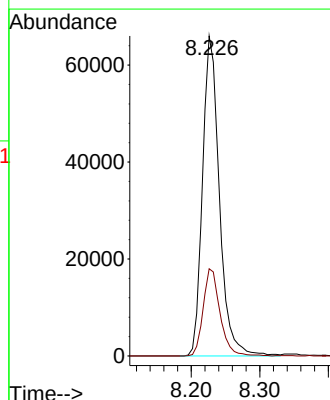
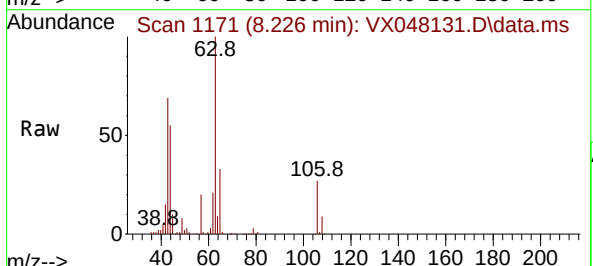
Acq: 13 Oct 2025 11:24

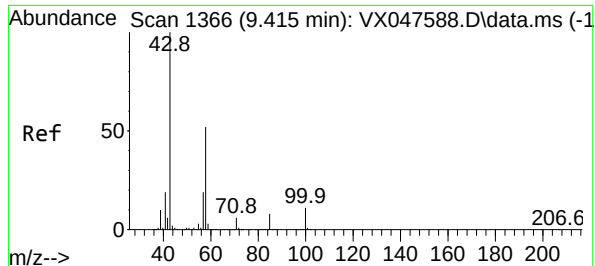
Tgt Ion: 63 Resp: 113295

Ion Ratio Lower Upper

63 100

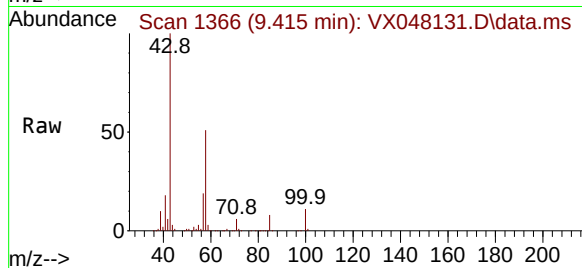
106 27.2 21.9 32.9





#59
2-Hexanone
Concen: 90.150 ug/l
RT: 9.415 min Scan# 1366
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

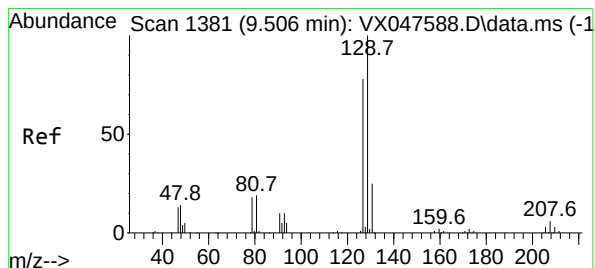
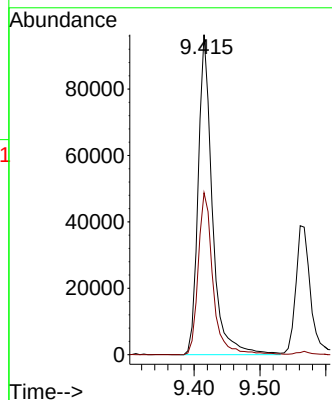
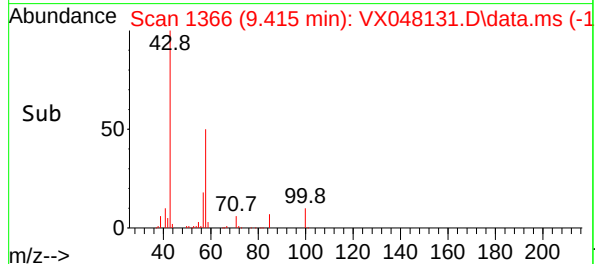
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01



Tgt Ion: 43 Resp: 144400
Ion Ratio Lower Upper
43 100
58 52.7 26.1 78.2

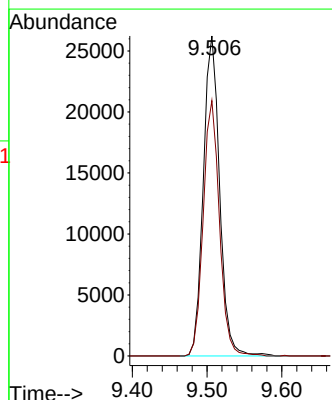
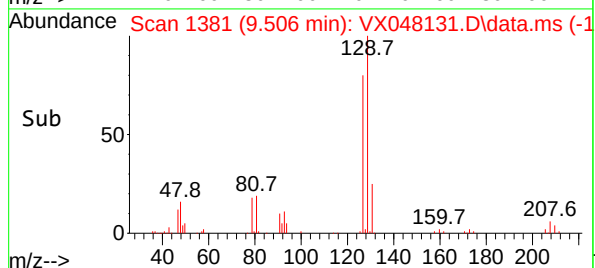
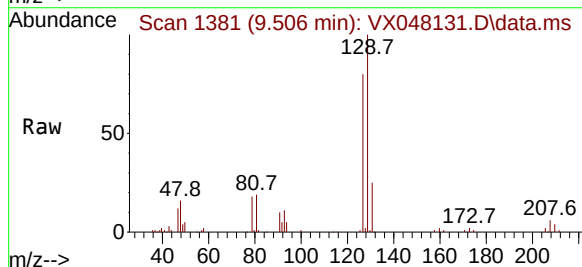
Manual Integrations
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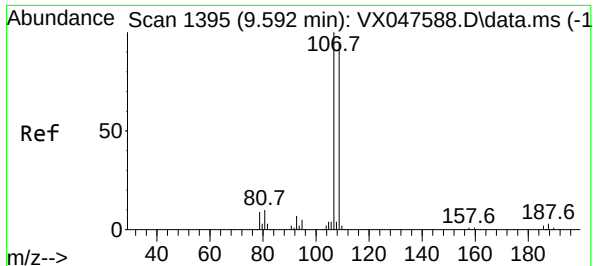
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#60
Dibromochloromethane
Concen: 20.888 ug/l
RT: 9.506 min Scan# 1381
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Tgt Ion:129 Resp: 39779
Ion Ratio Lower Upper
129 100
127 79.4 38.4 115.2





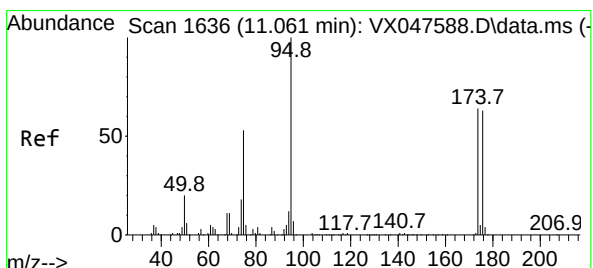
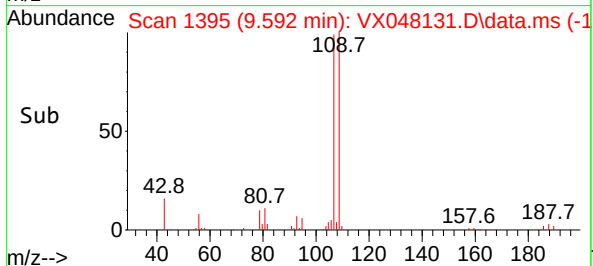
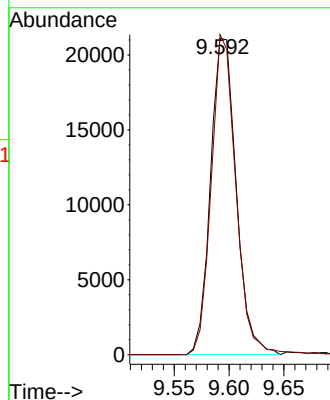
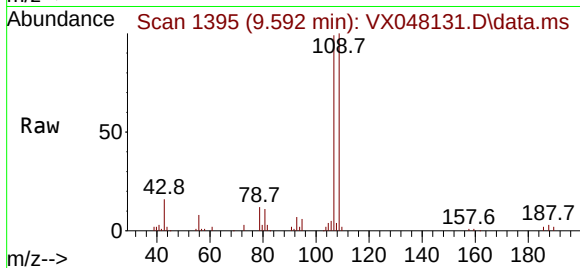
#61
1,2-Dibromoethane
Concen: 20.444 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01

Tgt Ion:107 Resp: 3441
Ion Ratio Lower Upper
107 100
109 97.2 75.3 112.9

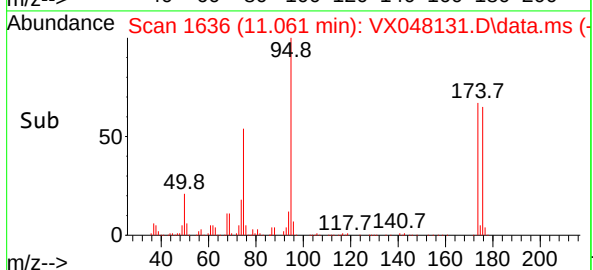
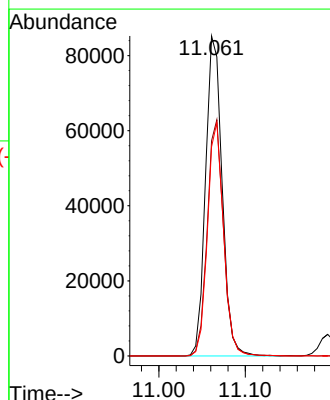
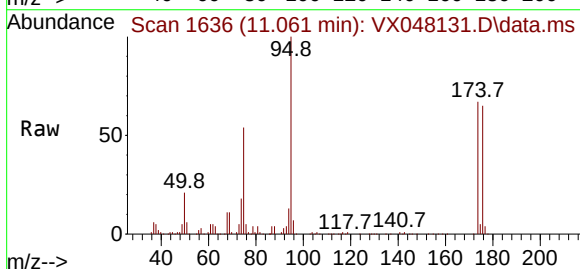
Manual Integrations
APPROVED

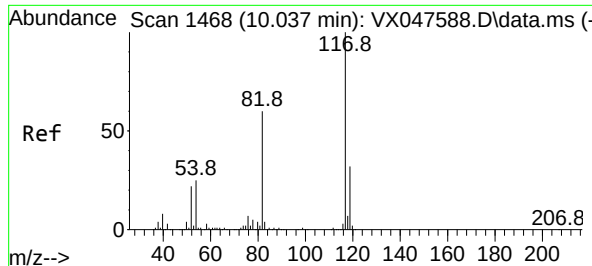
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#62
4-Bromofluorobenzene
Concen: 54.993 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

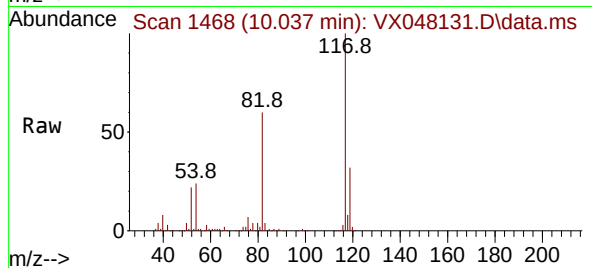
Tgt Ion: 95 Resp: 113210
Ion Ratio Lower Upper
95 100
174 72.2 0.0 141.6
176 70.7 0.0 138.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

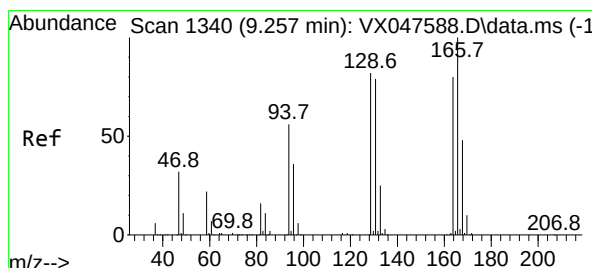
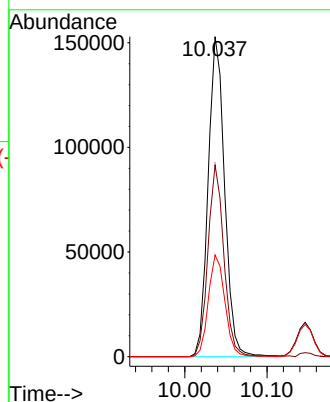
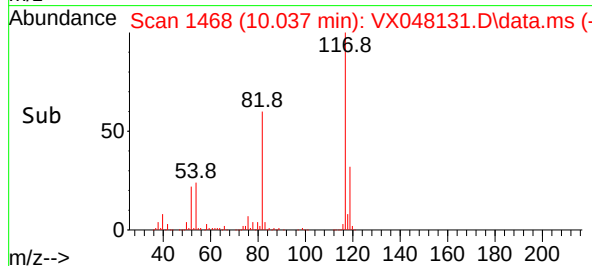
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01



Tgt Ion:117 Resp: 21253
Ion Ratio Lower Upper
117 100
82 59.9 47.8 71.6
119 31.8 25.2 37.8

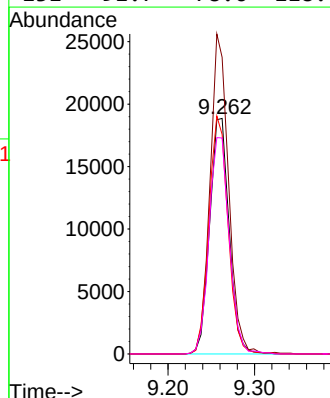
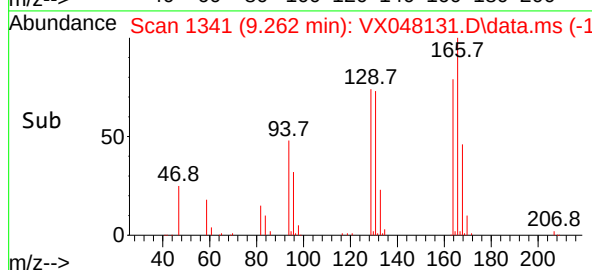
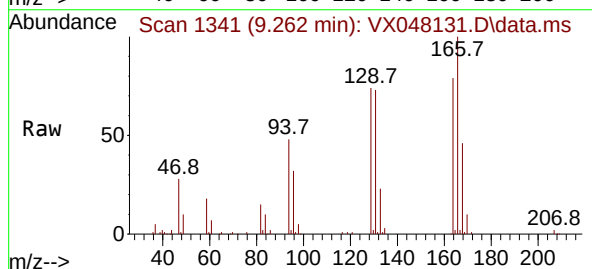
Manual Integrations
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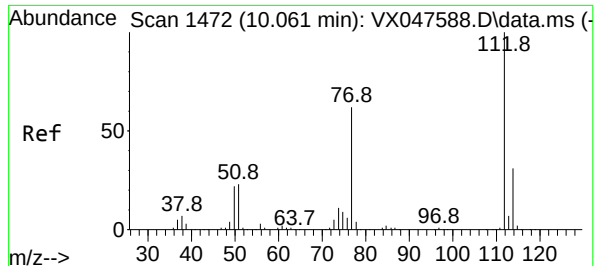
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#64
Tetrachloroethene
Concen: 21.188 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Tgt Ion:164 Resp: 29356
Ion Ratio Lower Upper
164 100
166 126.0 100.2 150.2
129 93.2 81.8 122.6
131 91.7 78.6 118.0





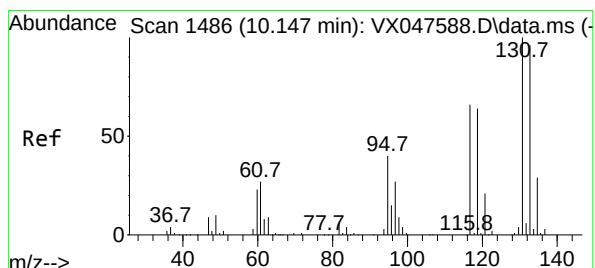
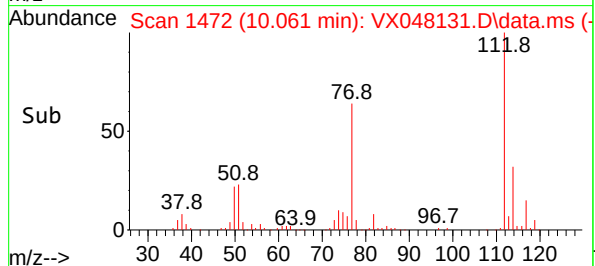
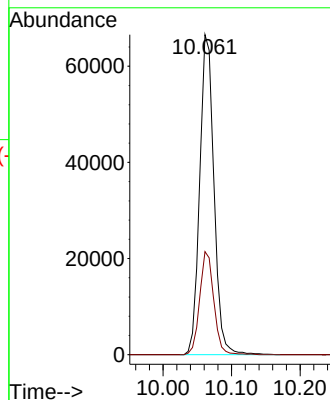
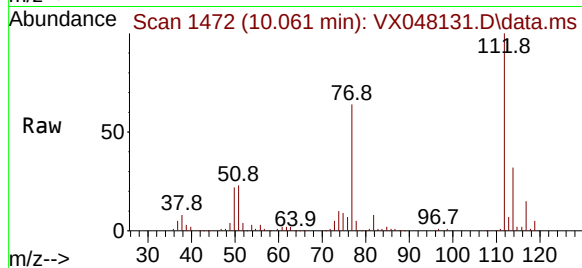
#65
Chlorobenzene
Concen: 20.029 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01

Tgt Ion:112 Resp: 9670
Ion Ratio Lower Upper
112 100
114 32.2 25.1 37.7

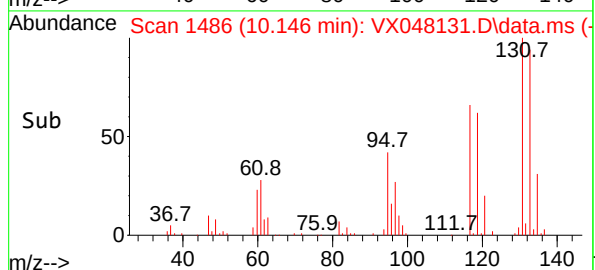
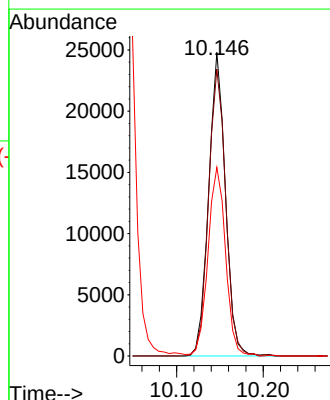
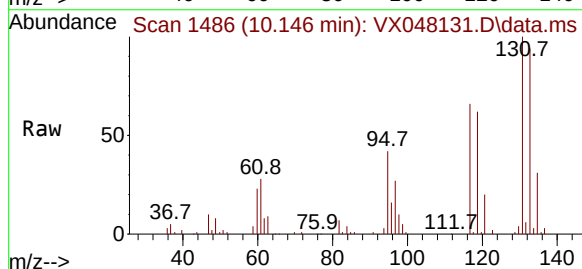
Manual Integrations
APPROVED

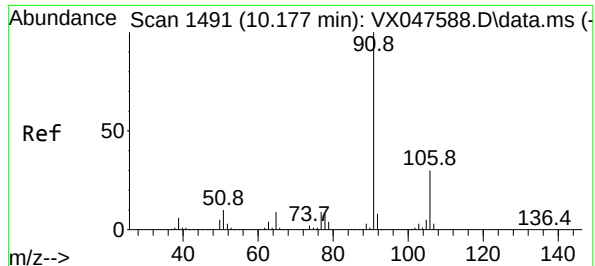
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 20.055 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

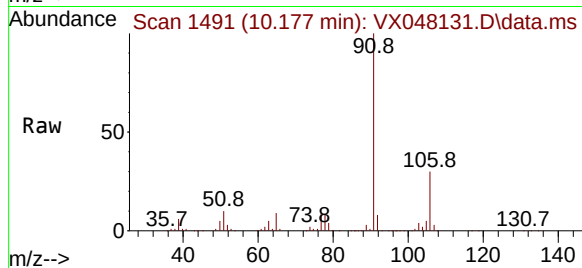
Tgt Ion:131 Resp: 33415
Ion Ratio Lower Upper
131 100
133 96.7 47.3 142.0
119 65.0 32.0 96.0





#67
Ethyl Benzene
Concen: 19.940 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

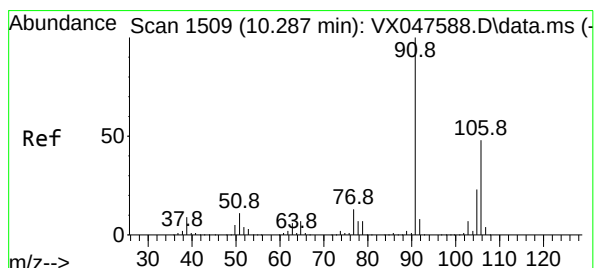
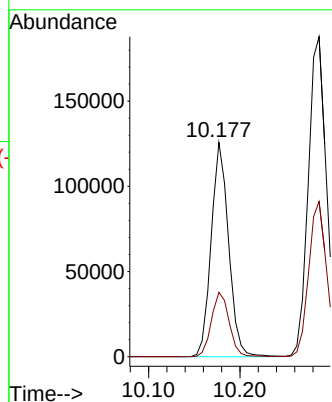
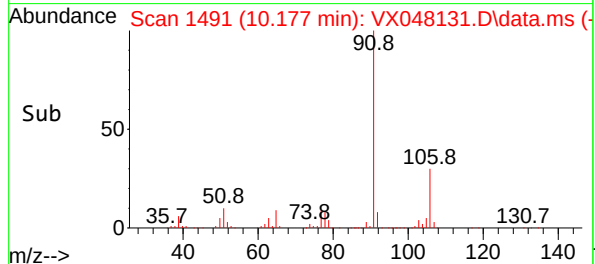
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01



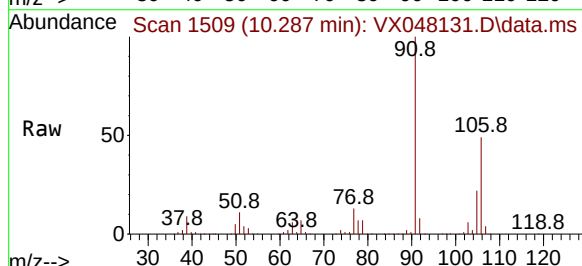
Tgt Ion: 91 Resp: 16612
Ion Ratio Lower Upper
91 100
106 30.0 24.3 36.5

Manual Integrations
APPROVED

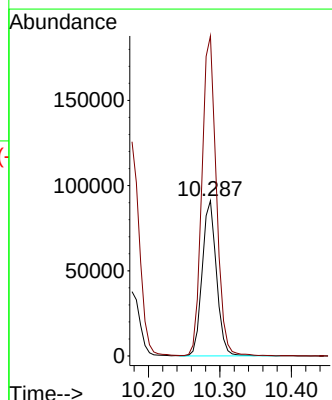
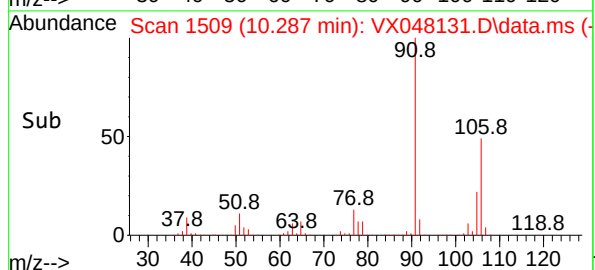
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

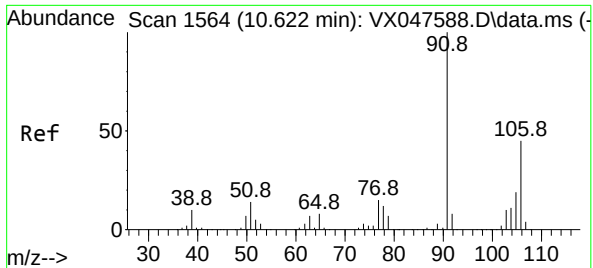


#68
m/p-Xylenes
Concen: 40.712 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24



Tgt Ion:106 Resp: 126243
Ion Ratio Lower Upper
106 100
91 208.8 167.8 251.8





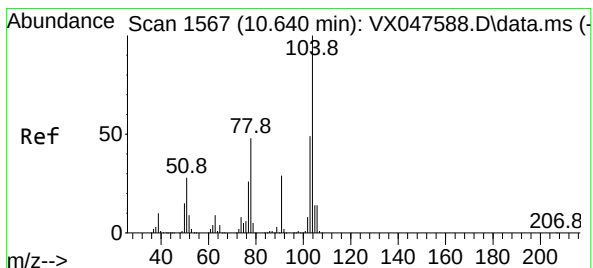
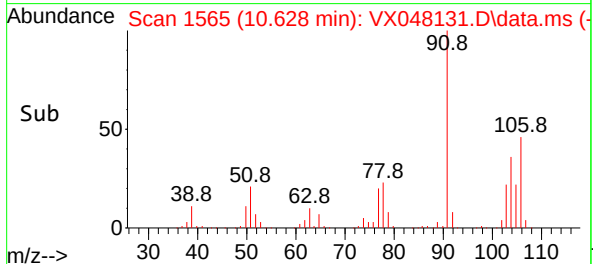
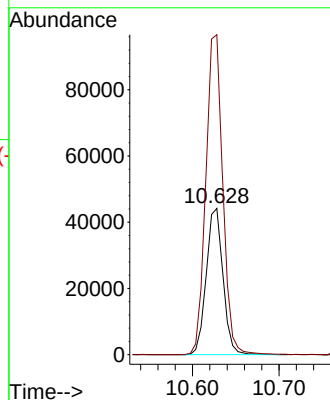
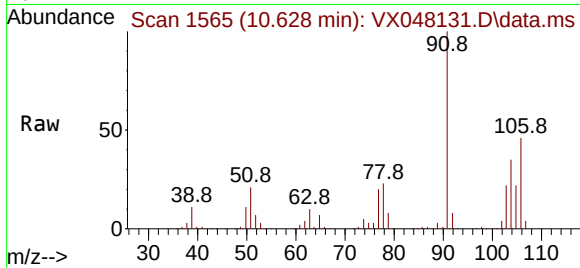
#69
o-Xylene
Concen: 19.786 ug/l
RT: 10.628 min Scan# 1564
Delta R.T. 0.006 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01

Tgt Ion:106 Resp: 5934
Ion Ratio Lower Upper
106 100
91 222.1 111.1 333.4

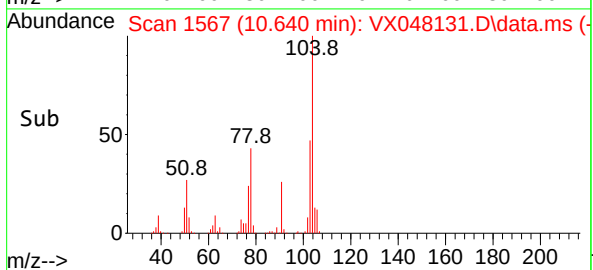
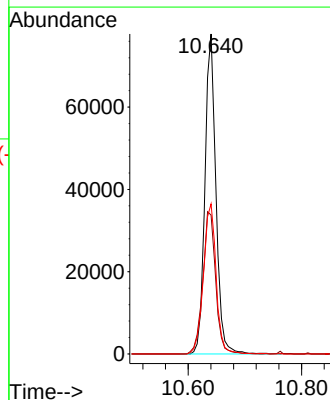
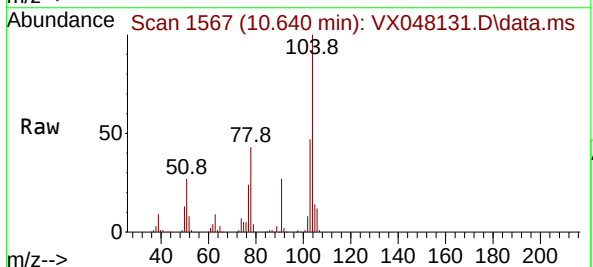
Manual Integrations
APPROVED

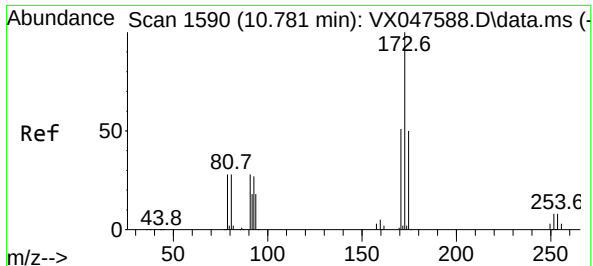
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#70
Styrene
Concen: 19.972 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

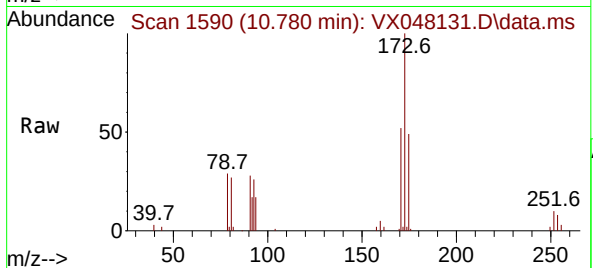
Tgt Ion:104 Resp: 104956
Ion Ratio Lower Upper
104 100
78 52.1 43.1 64.7
103 53.9 43.1 64.7





#71
Bromoform
Concen: 20.260 ug/l
RT: 10.780 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

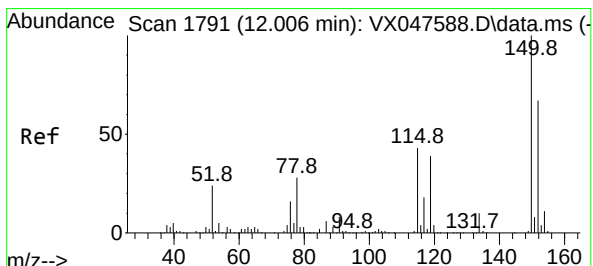
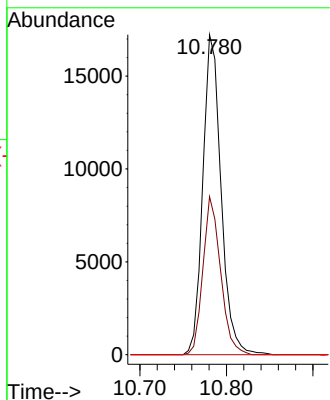
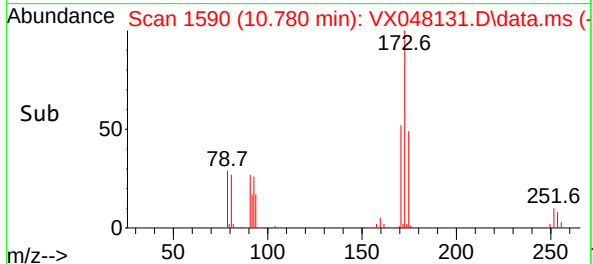
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01



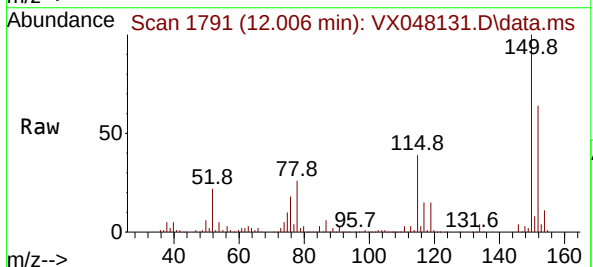
Tgt Ion:173 Resp: 2520
Ion Ratio Lower Upper
173 100
175 47.7 24.9 74.6
254 0.0 0.1 0.1

Manual Integrations
APPROVED

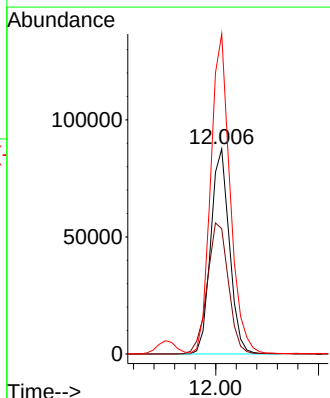
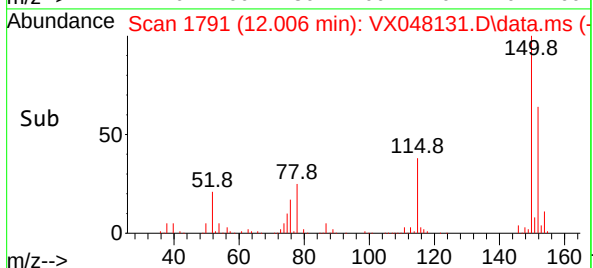
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

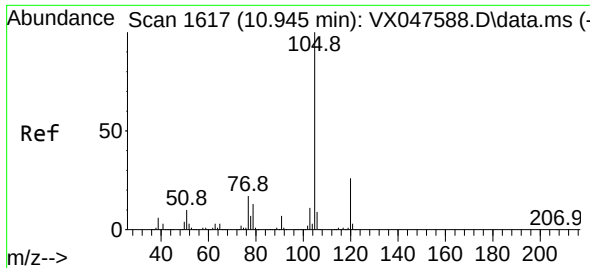


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24



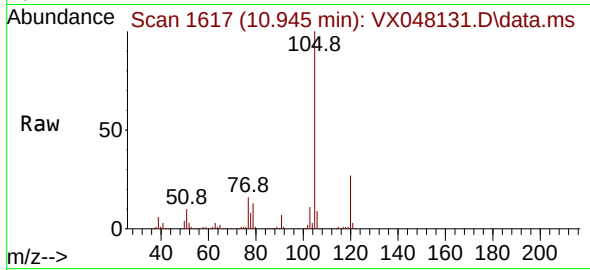
Tgt Ion:152 Resp: 110079
Ion Ratio Lower Upper
152 100
115 72.6 44.9 134.5
150 161.9 0.0 352.0





#73
Isopropylbenzene
Concen: 18.559 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

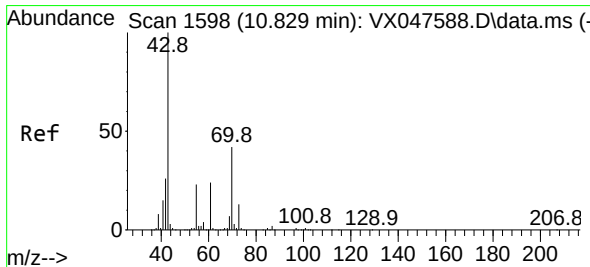
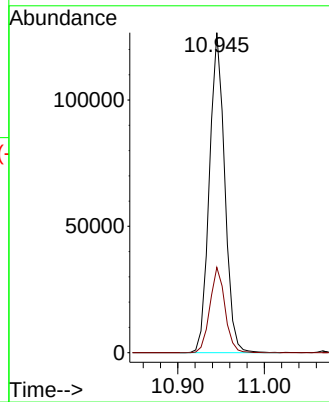
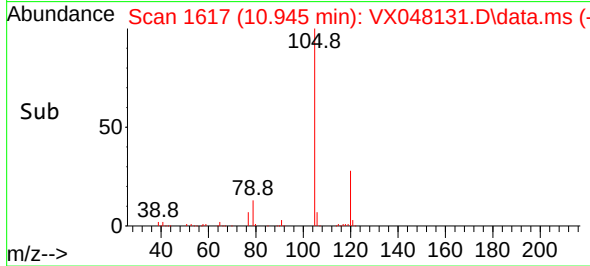
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01



Tgt Ion:105 Resp: 155320
Ion Ratio Lower Upper
105 100
120 26.2 12.8 38.4

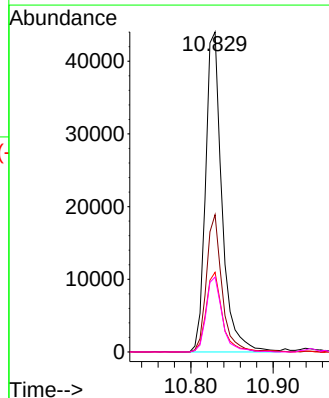
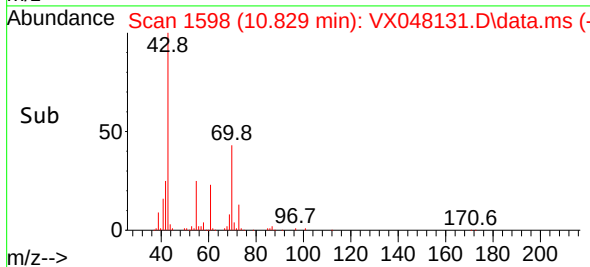
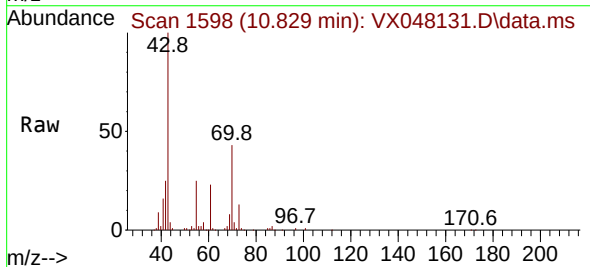
Manual Integrations
APPROVED

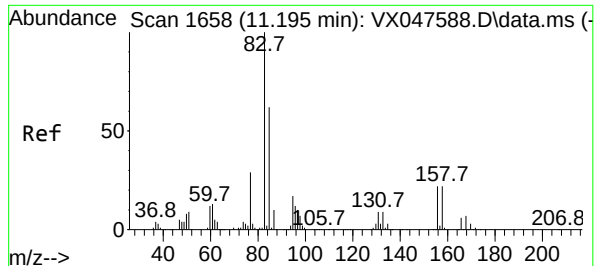
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#74
N-ethyl acetate
Concen: 16.013 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Tgt Ion: 43 Resp: 61111
Ion Ratio Lower Upper
43 100
70 40.7 32.0 48.0
55 24.6 18.9 28.3
61 23.0 18.8 28.2





#75

1,1,2,2-Tetrachloroethane

Concen: 18.280 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBSD01

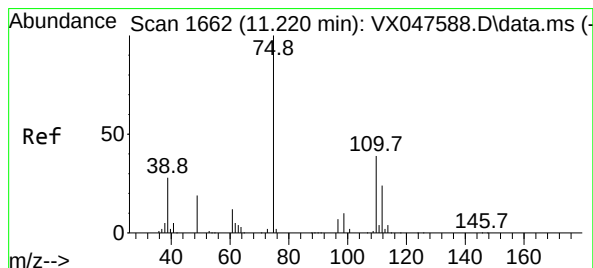
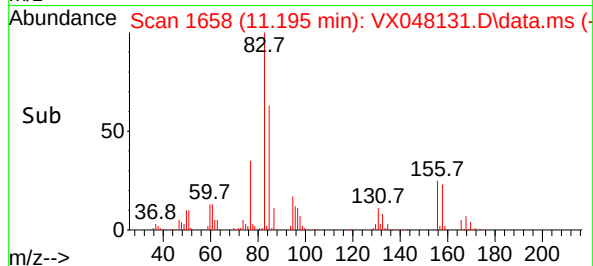
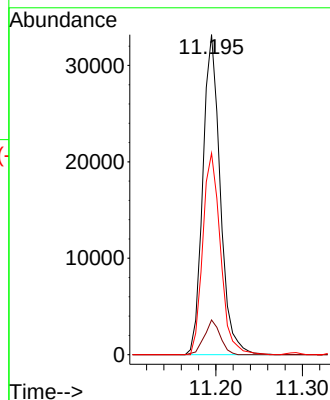
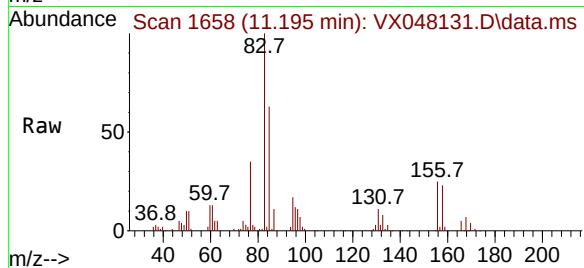
Tgt Ion:	83	Resp:	46280
Ion	Ratio	Lower	Upper
83	100		
131	9.9	5.0	14.9
85	64.1	31.6	95.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#76

1,2,3-Trichloropropane

Concen: 18.446 ug/l m

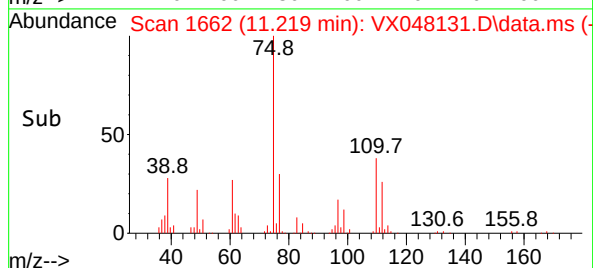
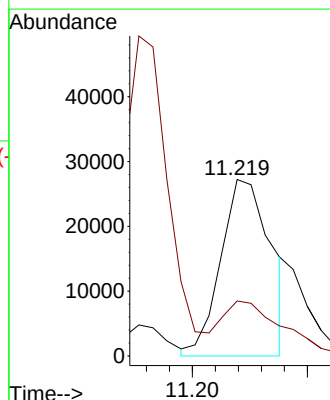
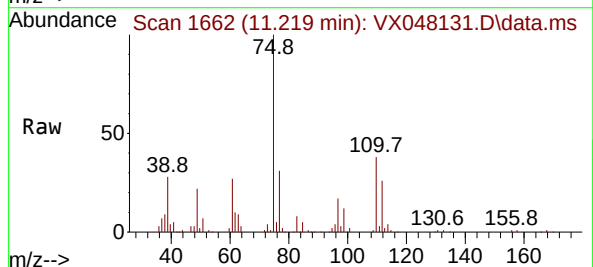
RT: 11.219 min Scan# 1662

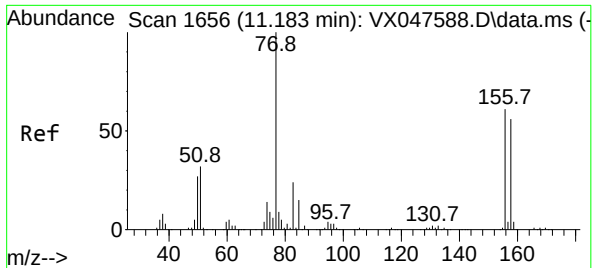
Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

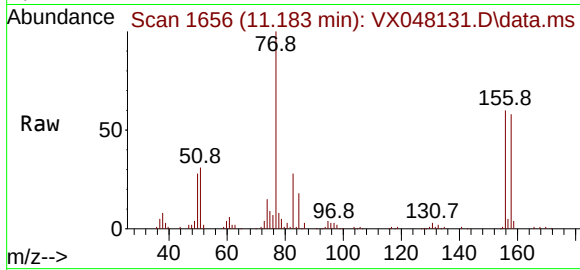
Tgt Ion:	75	Resp:	41112
Ion	Ratio	Lower	Upper
75	100		
77	36.9	18.8	56.4





#77
Bromobenzene
Concen: 18.717 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

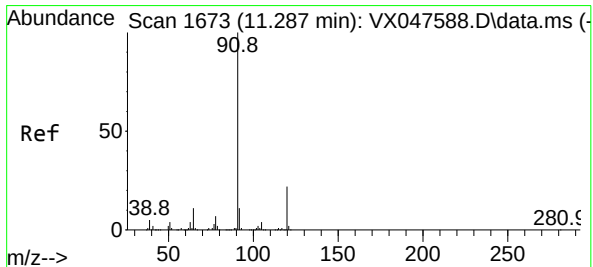
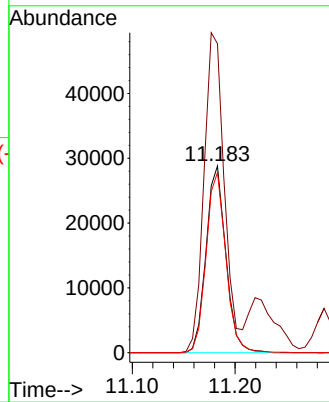
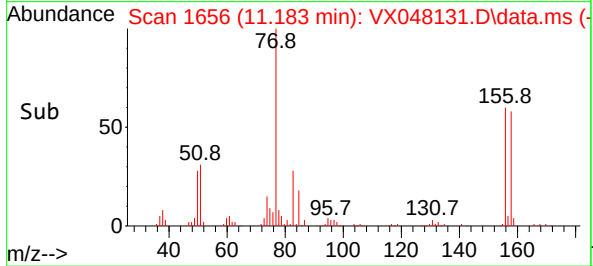
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01



Tgt Ion:156 Resp: 38579
Ion Ratio Lower Upper
156 100
77 177.0 89.7 269.1
158 96.6 47.9 143.6

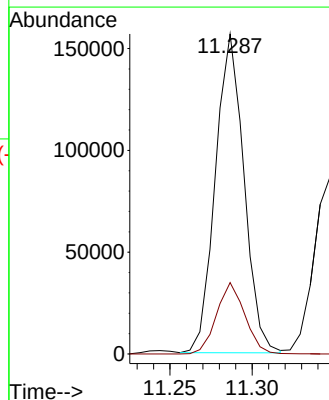
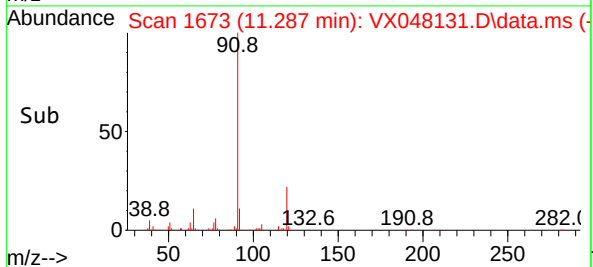
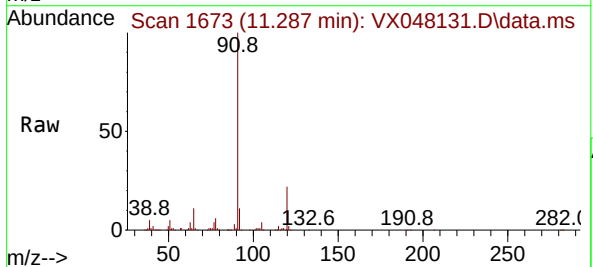
Manual Integrations
APPROVED

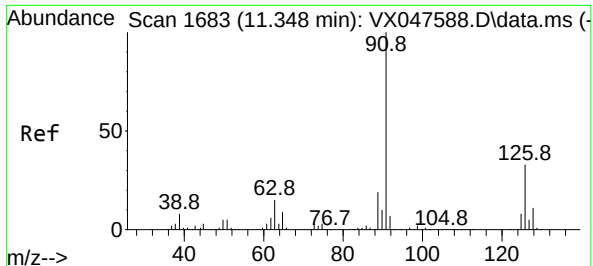
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#78
n-propylbenzene
Concen: 19.138 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Tgt Ion: 91 Resp: 189336
Ion Ratio Lower Upper
91 100
120 22.1 11.1 33.1





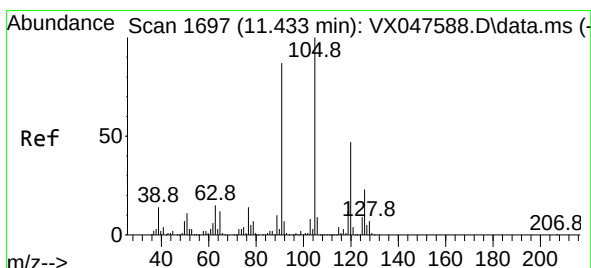
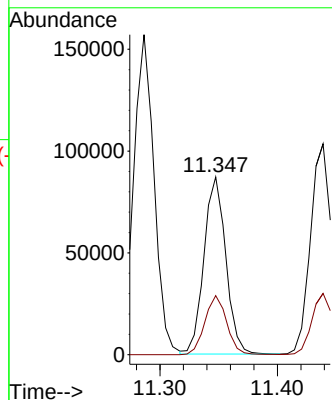
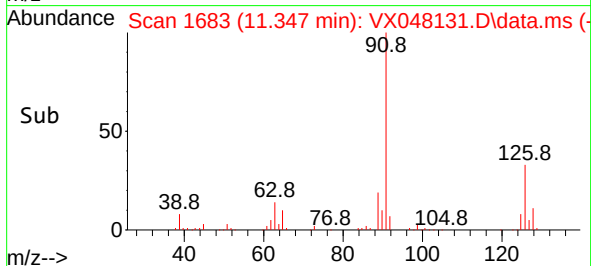
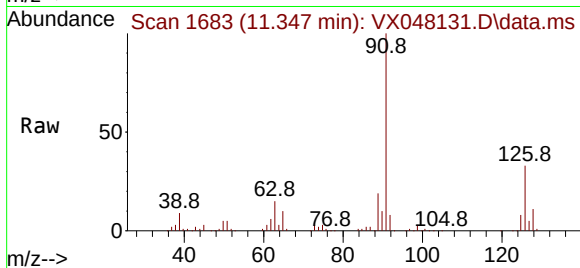
#79
2-Chlorotoluene
Concen: 18.571 ug/l
RT: 11.347 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01

Tgt Ion: 91 Resp: 11252
Ion Ratio Lower Upper
91 100
126 33.4 16.1 48.3

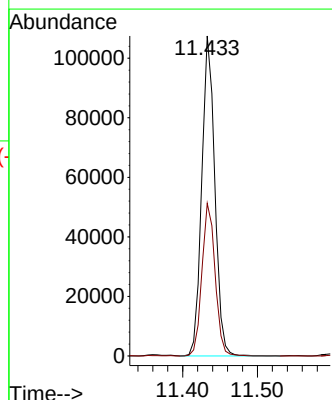
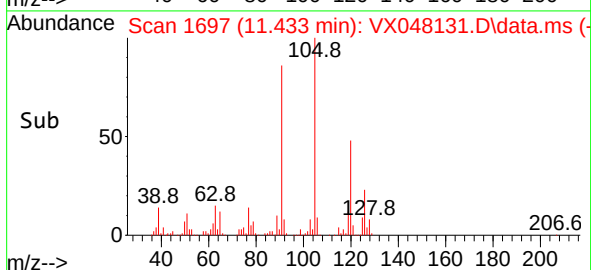
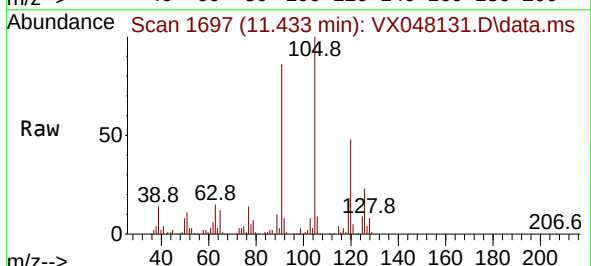
Manual Integrations
APPROVED

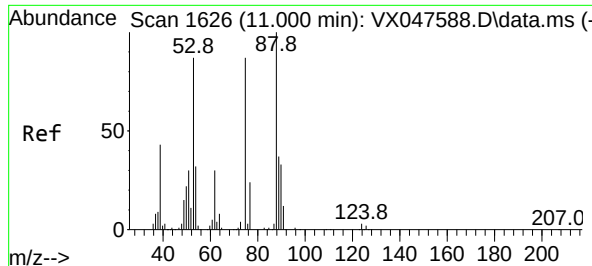
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#80
1,3,5-Trimethylbenzene
Concen: 18.968 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Tgt Ion:105 Resp: 130422
Ion Ratio Lower Upper
105 100
120 48.2 23.6 70.8





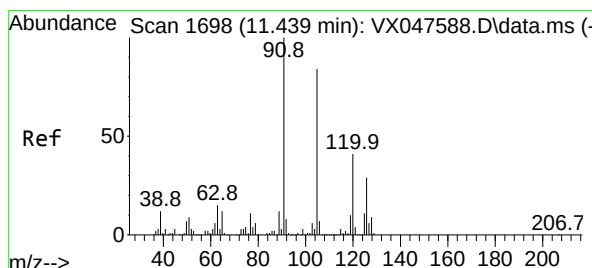
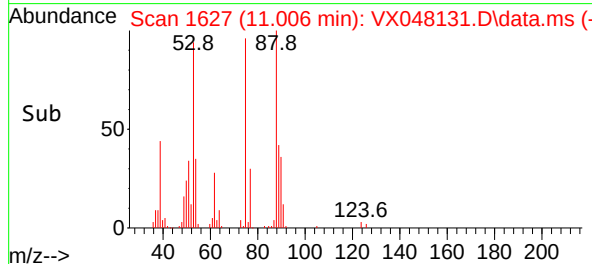
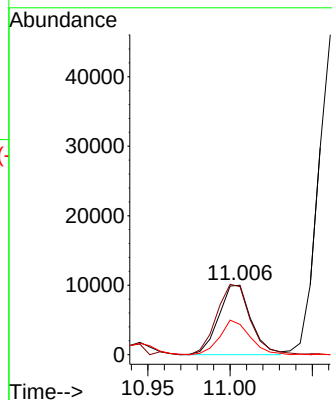
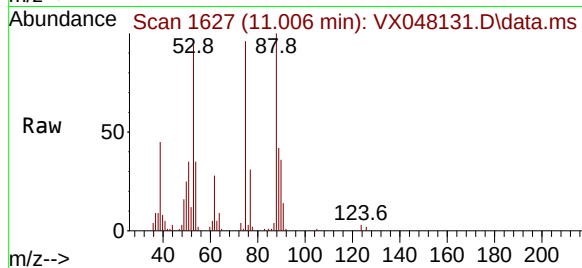
#81
trans-1,4-Dichloro-2-butene
Concen: 15.573 ug/l
RT: 11.006 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01

Tgt Ion: 75 Resp: 13610
Ion Ratio Lower Upper
75 100
53 106.0 83.4 125.2
89 46.6 36.3 54.5

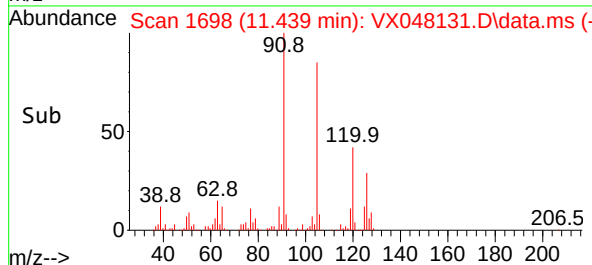
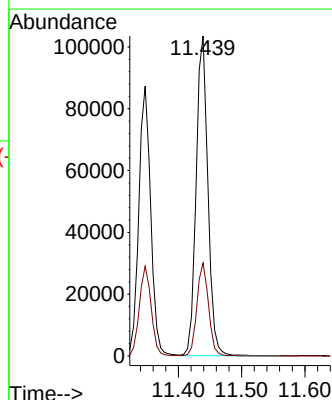
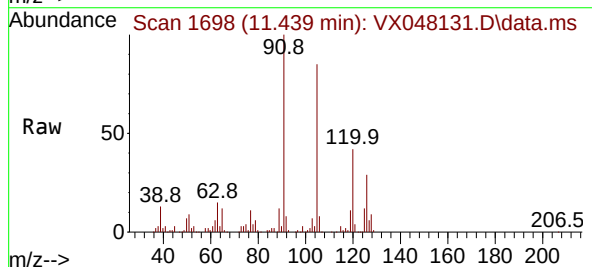
Manual Integrations
APPROVED

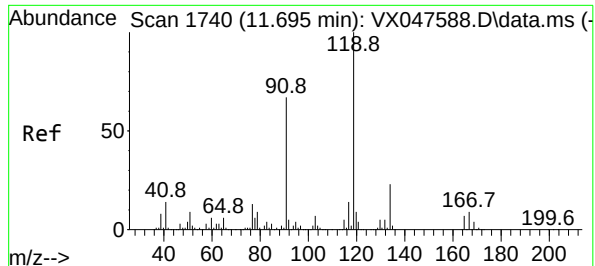
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#82
4-Chlorotoluene
Concen: 18.746 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Tgt Ion: 91 Resp: 134151
Ion Ratio Lower Upper
91 100
126 28.7 14.2 42.6





#83

tert-Butylbenzene

Concen: 18.739 ug/l

RT: 11.695 min Scan# 1740

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBSD01

Tgt Ion:119 Resp: 131899

Ion Ratio Lower Upper

119 100

91 57.6 29.6 88.8

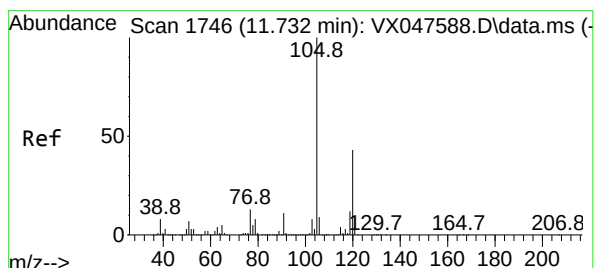
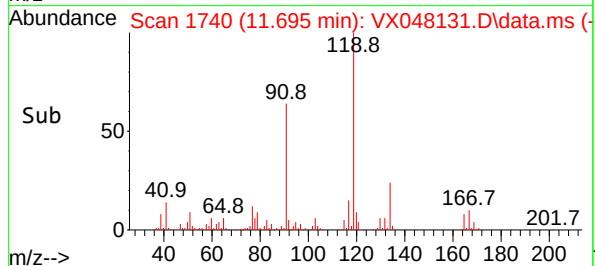
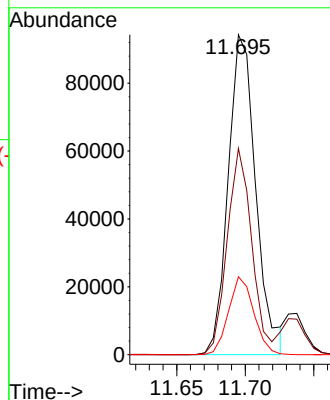
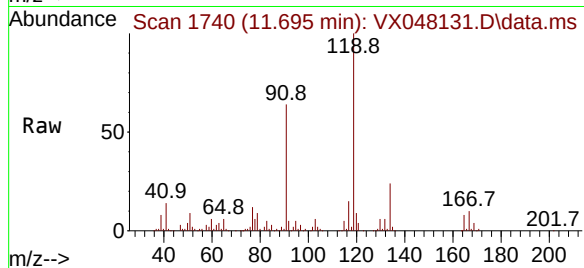
134 22.5 11.0 33.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#84

1,2,4-Trimethylbenzene

Concen: 18.759 ug/l

RT: 11.732 min Scan# 1746

Delta R.T. -0.000 min

Lab File: VX048131.D

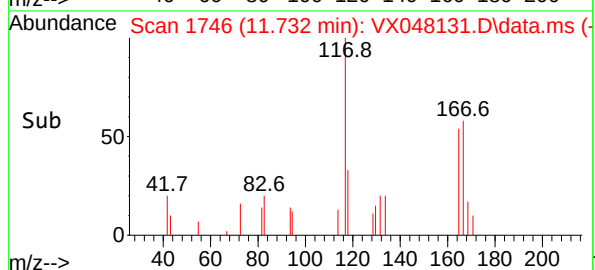
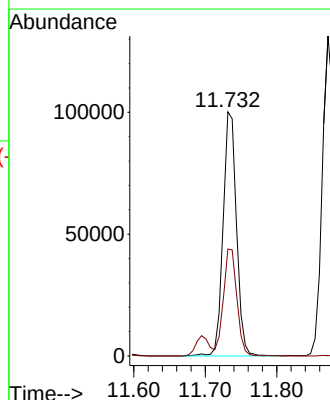
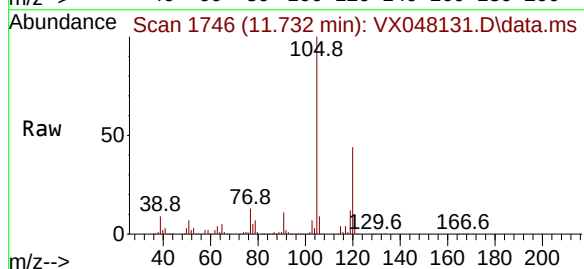
Acq: 13 Oct 2025 11:24

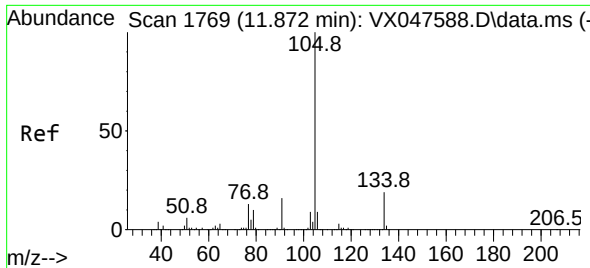
Tgt Ion:105 Resp: 130768

Ion Ratio Lower Upper

105 100

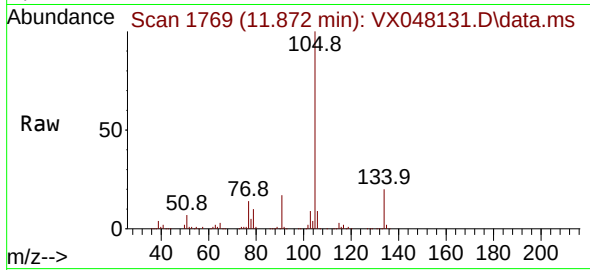
120 43.9 22.1 66.1





#85
sec-Butylbenzene
Concen: 19.298 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

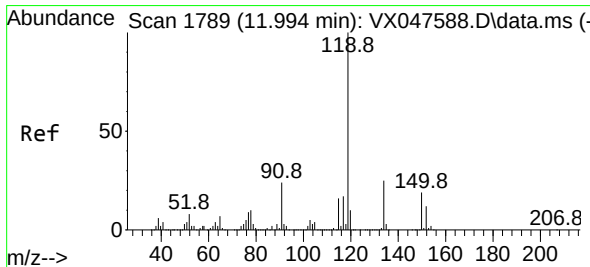
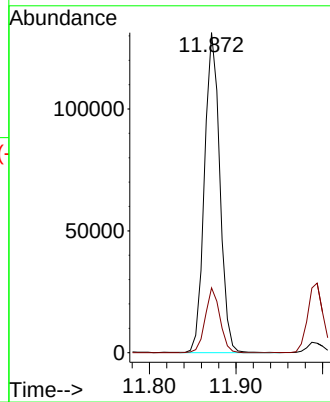
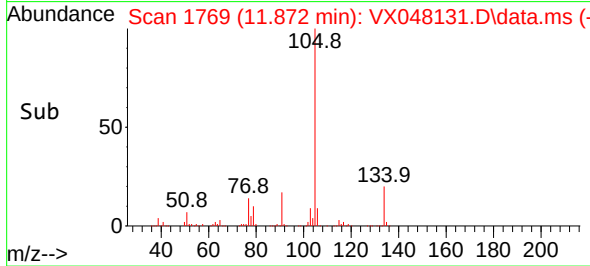
Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01



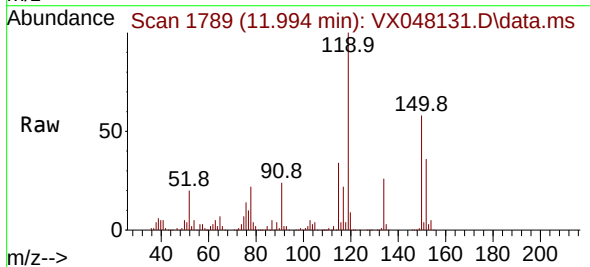
Tgt Ion:105 Resp: 16134
Ion Ratio Lower Upper
105 100
134 19.3 9.8 29.5

Manual Integrations
APPROVED

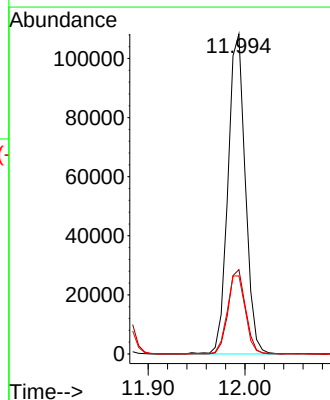
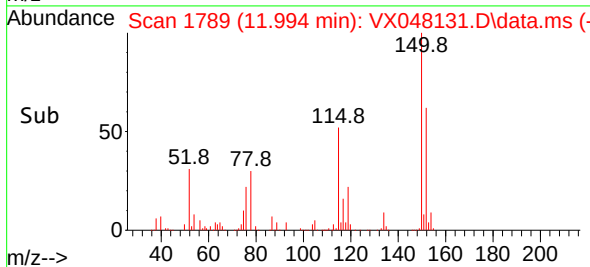
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025

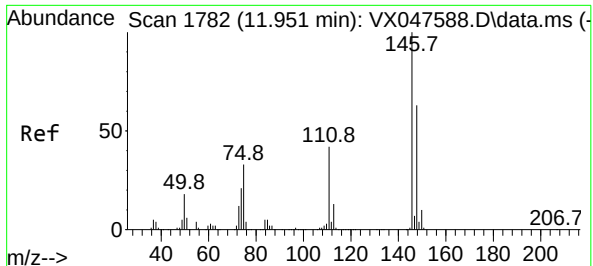


#86
p-Isopropyltoluene
Concen: 18.968 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24



Tgt Ion:119 Resp: 134252
Ion Ratio Lower Upper
119 100
134 26.4 12.6 37.8
91 25.8 12.6 37.6





#87

1,3-Dichlorobenzene

Concen: 18.707 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBSD01

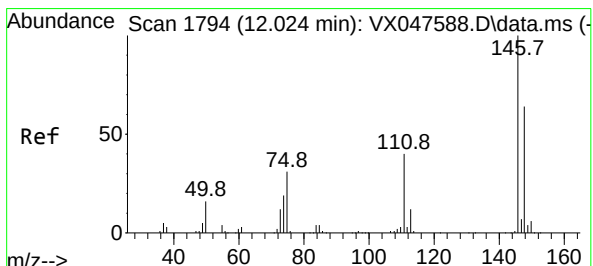
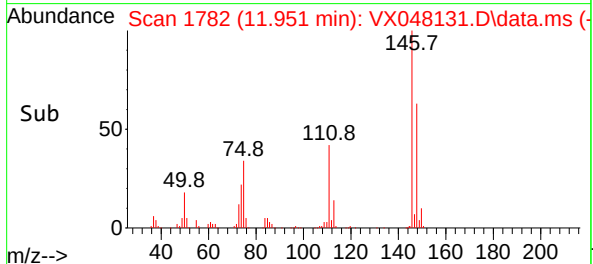
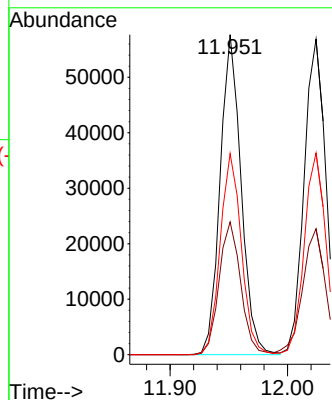
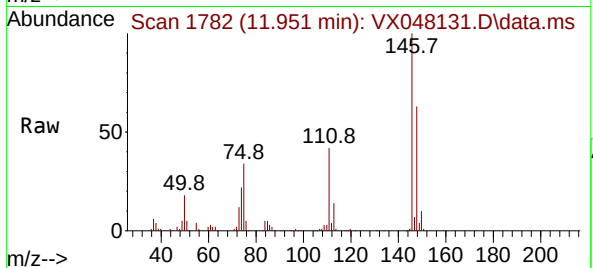
Tgt Ion:	146	Resp:	71619
Ion Ratio	Lower	Upper	
146	100		
111	42.9	21.5	64.5
148	63.4	32.0	96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#88

1,4-Dichlorobenzene

Concen: 18.834 ug/l

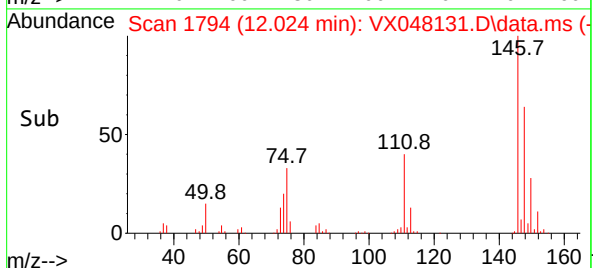
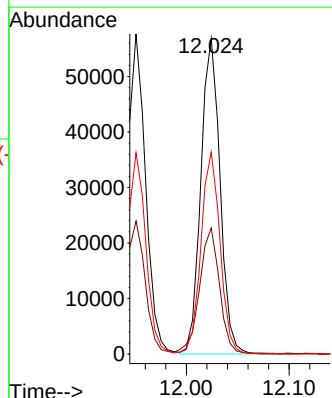
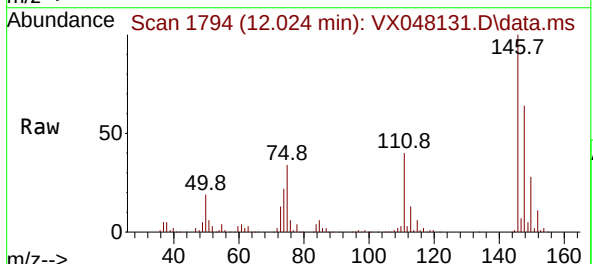
RT: 12.024 min Scan# 1794

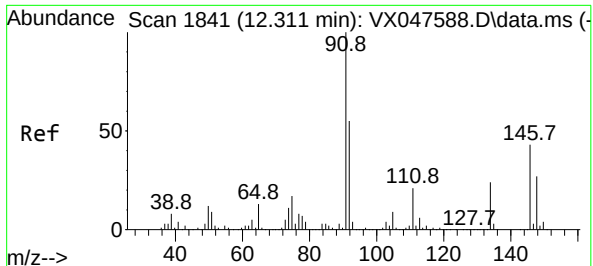
Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Tgt Ion:	146	Resp:	74007
Ion Ratio	Lower	Upper	
146	100		
111	41.6	20.8	62.4
148	63.8	31.7	95.1





#89

n-Butylbenzene

Concen: 19.030 ug/l

RT: 12.317 min Scan# 1842

Delta R.T. 0.006 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBSD01

Tgt Ion: 91 Resp: 124634

Ion Ratio Lower Upper

91 100

92 52.8 27.6 82.7

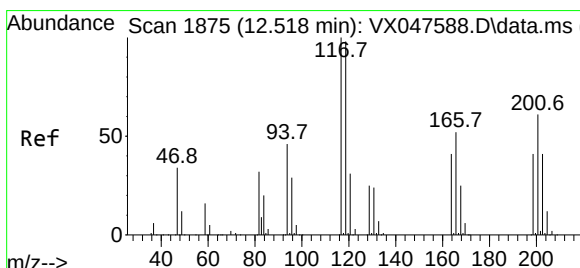
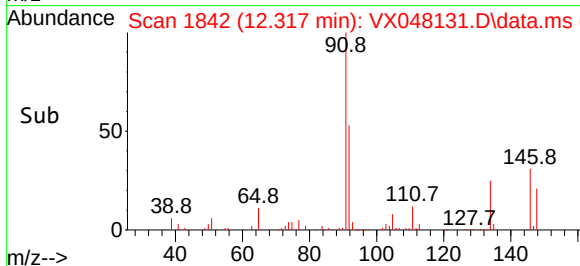
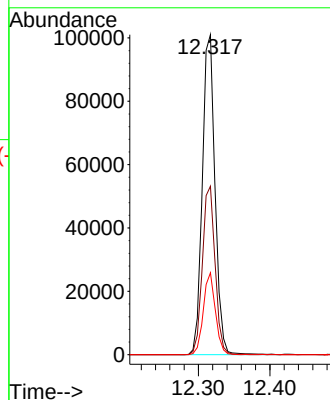
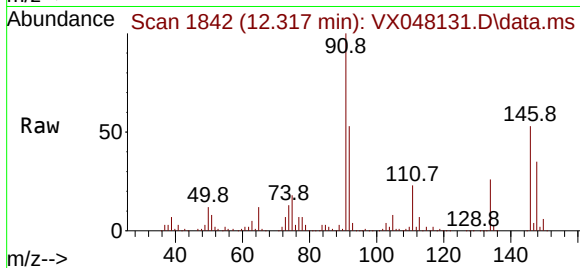
134 24.4 12.6 37.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#90

Hexachloroethane

Concen: 19.544 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX048131.D

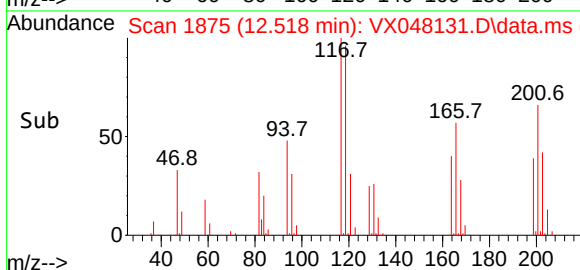
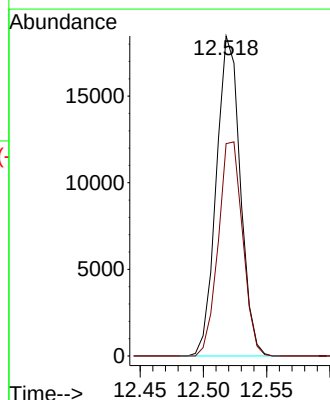
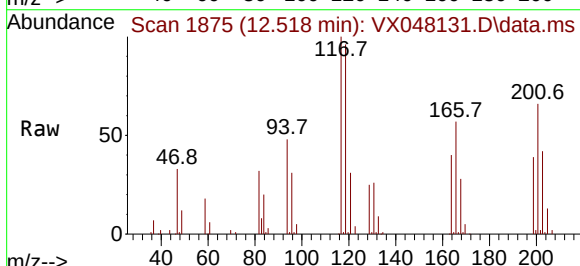
Acq: 13 Oct 2025 11:24

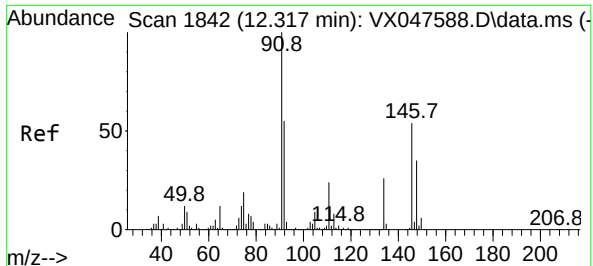
Tgt Ion:117 Resp: 24287

Ion Ratio Lower Upper

117 100

201 68.2 34.2 102.5





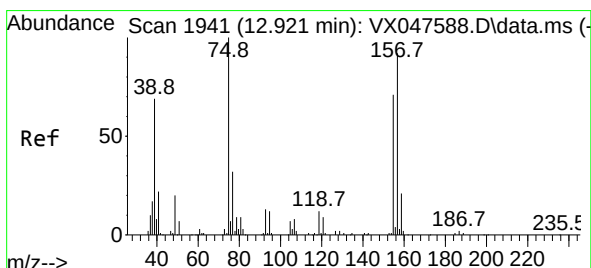
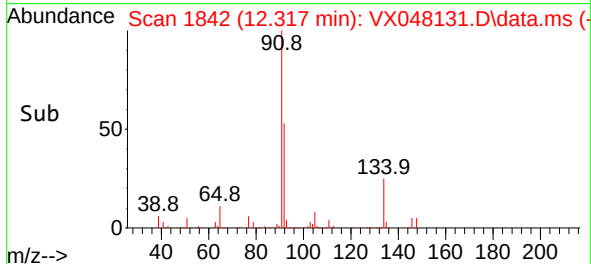
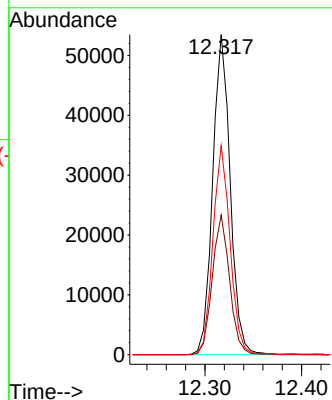
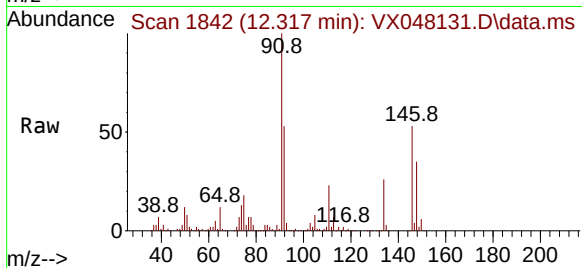
#91
1,2-Dichlorobenzene
Concen: 18.482 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Instrument :
MSVOA_X
ClientSampleId :
VX1013WBSD01

Tgt Ion:146 Resp: 6741
Ion Ratio Lower Upper
146 100
111 43.1 22.2 66.6
148 63.9 31.8 95.4

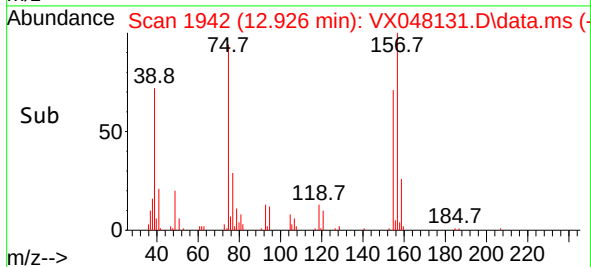
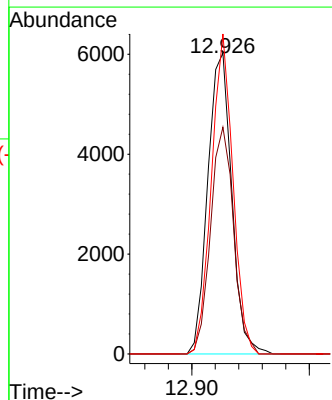
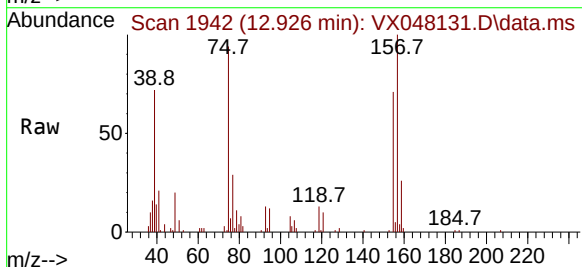
Manual Integrations
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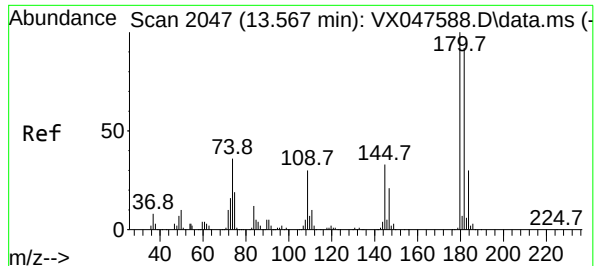
Reviewed By :John Carlone 10/14/2025
Supervised By :Mahesh Dadoda 10/14/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 16.575 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX048131.D
Acq: 13 Oct 2025 11:24

Tgt Ion: 75 Resp: 8497
Ion Ratio Lower Upper
75 100
155 72.6 37.7 113.1
157 95.6 49.8 149.4





#93

1,2,4-Trichlorobenzene

Concen: 17.376 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBSD01

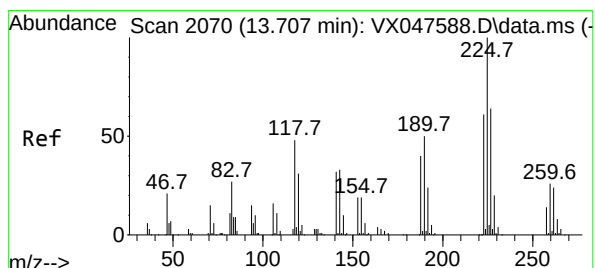
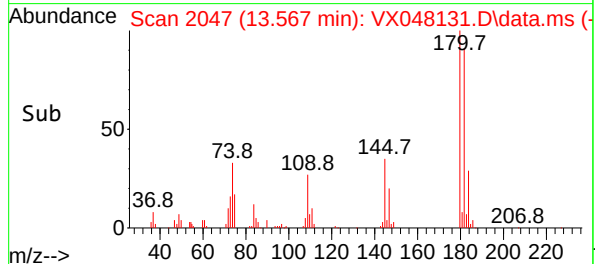
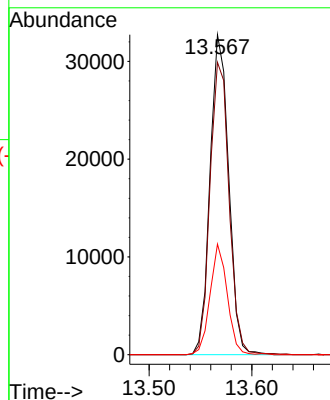
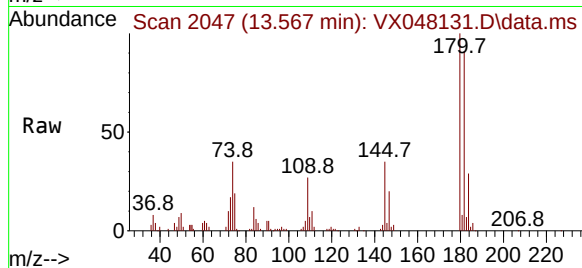
Tgt Ion:180	Resp:	41190
Ion Ratio	Lower	Upper
180	100	
182	93.7	46.6 139.8
145	32.1	16.4 49.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#94

Hexachlorobutadiene

Concen: 19.641 ug/l

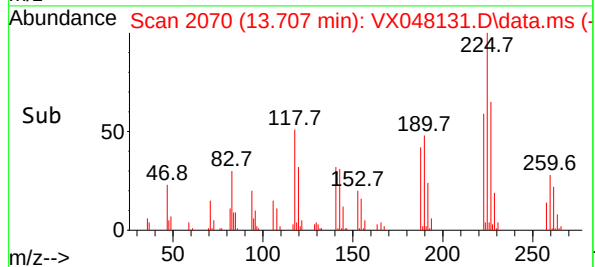
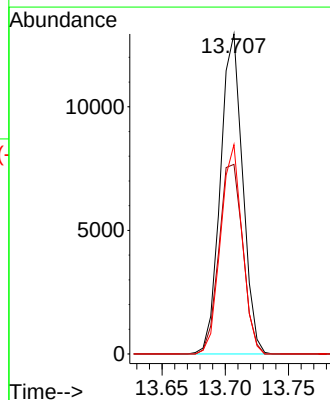
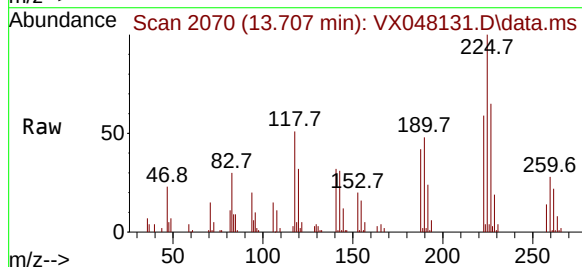
RT: 13.707 min Scan# 2070

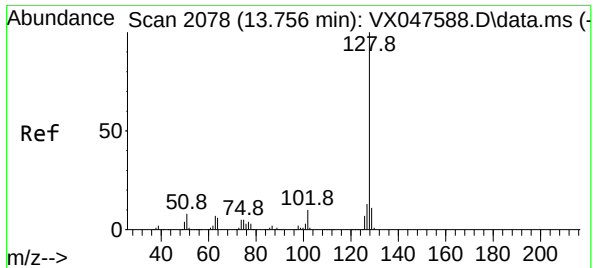
Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Tgt Ion:225	Resp:	15815
Ion Ratio	Lower	Upper
225	100	
223	63.7	31.7 95.1
227	63.2	32.0 96.0





#95

Naphthalene

Concen: 15.583 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. -0.000 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

Instrument :

MSVOA_X

ClientSampleId :

VX1013WBSD01

Tgt Ion:128 Resp: 112480

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.2

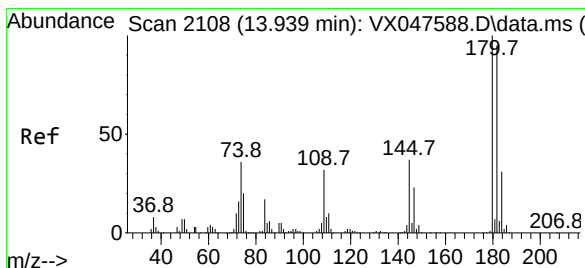
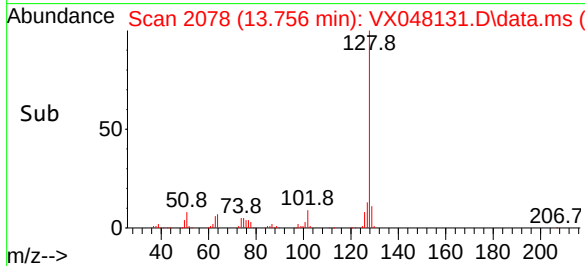
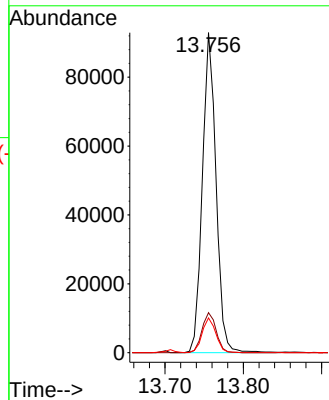
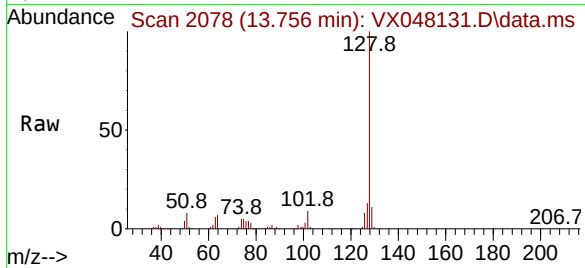
129 10.9 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/14/2025

Supervised By :Mahesh Dadoda 10/14/2025



#96

1,2,3-Trichlorobenzene

Concen: 17.159 ug/l

RT: 13.945 min Scan# 2109

Delta R.T. 0.006 min

Lab File: VX048131.D

Acq: 13 Oct 2025 11:24

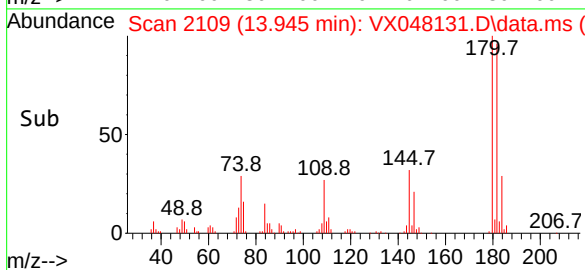
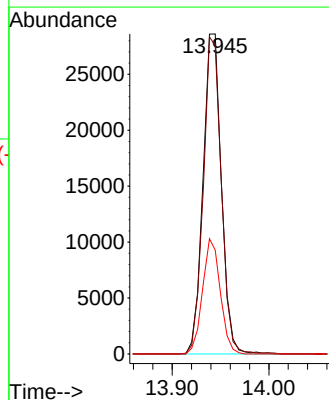
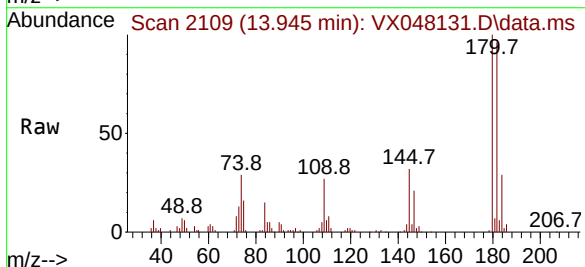
Tgt Ion:180 Resp: 37838

Ion Ratio Lower Upper

180 100

182 96.9 47.6 142.8

145 34.7 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:

VX101325

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX048126.D	1,2,3-Trichloropropane	JOHN	10/14/2025 8:03:38 AM	MMDadoda	10/14/2025 3:53:37 PM	Peak Integrated by Software
VX1013WBS01	VX048129.D	1,2,3-Trichloropropane	JOHN	10/14/2025 8:03:44 AM	MMDadoda	10/14/2025 3:53:39 PM	Peak Integrated by Software
VX1013WBSD0 1	VX048131.D	1,2,3-Trichloropropane	JOHN	10/14/2025 8:03:49 AM	MMDadoda	10/14/2025 3:53:41 PM	Peak Integrated by Software
VSTDCCC050	VX048151.D	1,2,3-Trichloropropane	JOHN	10/14/2025 8:04:12 AM	MMDadoda	10/14/2025 3:53:46 PM	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	VSTDICC001	VX047585.D	16 Sep 2025 09:23	JC/MD	Ok,M
3	VSTDICC005	VX047586.D	16 Sep 2025 10:16	JC/MD	Ok,M
4	VSTDICC020	VX047587.D	16 Sep 2025 10:37	JC/MD	Ok,M
5	VSTDICCC050	VX047588.D	16 Sep 2025 10:58	JC/MD	Ok,M
6	VSTDICC100	VX047589.D	16 Sep 2025 11:40	JC/MD	Ok,M
7	VSTDICC150	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	VSTDCCC050	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 # VX101325

Review By	John Carlone	Review On	10/14/2025 8:13:18 AM
Supervise By	Maresh Dadoda	Supervise On	10/14/2025 3:53:26 PM
SubDirectory	VX101325	HP Acquire Method	HP Processing Method 82X091625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135805		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135806,VP135807		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX048125.D	13 Oct 2025 08:13	JC/MD	Ok
2	VSTDCCC050	VX048126.D	13 Oct 2025 08:55	JC/MD	Ok,M
3	VX1013MBL01	VX048127.D	13 Oct 2025 09:26	JC/MD	Ok
4	VX1013WBL01	VX048128.D	13 Oct 2025 09:46	JC/MD	Ok
5	VX1013WBS01	VX048129.D	13 Oct 2025 10:43	JC/MD	Ok,M
6	Q3324-03	VX048130.D	13 Oct 2025 11:03	JC/MD	Ok
7	VX1013WBSD01	VX048131.D	13 Oct 2025 11:24	JC/MD	Ok,M
8	Q3324-05	VX048132.D	13 Oct 2025 11:44	JC/MD	Ok
9	Q3324-08	VX048133.D	13 Oct 2025 12:05	JC/MD	Ok
10	Q3311-10	VX048134.D	13 Oct 2025 12:25	JC/MD	Ok
11	Q3311-12	VX048135.D	13 Oct 2025 12:46	JC/MD	Dilution
12	Q3311-12DL	VX048136.D	13 Oct 2025 13:06	JC/MD	Ok
13	Q3311-13	VX048137.D	13 Oct 2025 13:27	JC/MD	Dilution
14	Q3311-13DL	VX048138.D	13 Oct 2025 13:47	JC/MD	Not Ok
15	Q3311-14	VX048139.D	13 Oct 2025 14:08	JC/MD	Not Ok
16	Q3311-15	VX048140.D	13 Oct 2025 14:28	JC/MD	Not Ok
17	Q3331-04	VX048141.D	13 Oct 2025 14:49	JC/MD	Ok
18	PB170063TB	VX048142.D	13 Oct 2025 15:10	JC/MD	Ok
19	Q3321-02	VX048143.D	13 Oct 2025 15:30	JC/MD	Ok
20	Q3326-04	VX048144.D	13 Oct 2025 15:51	JC/MD	Ok
21	Q3326-08	VX048145.D	13 Oct 2025 16:11	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX101325

Review By	John Carlone	Review On	10/14/2025 8:13:18 AM
Supervise By	Maresh Dadoda	Supervise On	10/14/2025 3:53:26 PM
SubDirectory	VX101325	HP Acquire Method	HP Processing Method 82X091625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135805		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135806,VP135807		

22	Q3327-02	VX048146.D	13 Oct 2025 16:32	JC/MD	Ok
23	Q3311-14	VX048147.D	13 Oct 2025 16:52	JC/MD	Not Ok
24	Q3311-02	VX048148.D	13 Oct 2025 17:13	JC/MD	Not Ok
25	Q3311-03MS	VX048149.D	13 Oct 2025 17:33	JC/MD	Not Ok
26	Q3311-04MSD	VX048150.D	13 Oct 2025 17:54	JC/MD	Not Ok
27	VSTDCCC050	VX048151.D	13 Oct 2025 18:15	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	VSTDCCC050	VSTDCCC050EC	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 # VX101325

Review By	John Carlone	Review On	10/14/2025 8:13:18 AM
Supervise By	Mahesh Dadoda	Supervise On	10/14/2025 3:53:26 PM
SubDirectory	VX101325	HP Acquire Method	HP Processing Method 82X091625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135805		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135806,VP135807		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX048125.D	13 Oct 2025 08:13		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX048126.D	13 Oct 2025 08:55	pH#Lot#V12668	JC/MD	Ok,M
3	VX1013MBL01	VX1013MBL01	VX048127.D	13 Oct 2025 09:26		JC/MD	Ok
4	VX1013WBL01	VX1013WBL01	VX048128.D	13 Oct 2025 09:46		JC/MD	Ok
5	VX1013WBS01	VX1013WBS01	VX048129.D	13 Oct 2025 10:43		JC/MD	Ok,M
6	Q3324-03	BP-VPB-184-GW-EB-2	VX048130.D	13 Oct 2025 11:03	vial B pH<2 EB	JC/MD	Ok
7	VX1013WBSD01	VX1013WBSD01	VX048131.D	13 Oct 2025 11:24		JC/MD	Ok,M
8	Q3324-05	BP-VPB-184-GW-780-7	VX048132.D	13 Oct 2025 11:44	vial B pH<2	JC/MD	Ok
9	Q3324-08	BP-VPB-184-DUP-2023	VX048133.D	13 Oct 2025 12:05	vial B pH<2	JC/MD	Ok
10	Q3311-10	MW-5BA	VX048134.D	13 Oct 2025 12:25	vial A pH<2	JC/MD	Ok
11	Q3311-12	MW-214D	VX048135.D	13 Oct 2025 12:46	vial A pH<2 Need 5X	JC/MD	Dilution
12	Q3311-12DL	MW-214DDL	VX048136.D	13 Oct 2025 13:06	vial B pH<2	JC/MD	Ok
13	Q3311-13	MW-215D	VX048137.D	13 Oct 2025 13:27	vial A pH<2 Need 5X	JC/MD	Dilution
14	Q3311-13DL	MW-215DDL	VX048138.D	13 Oct 2025 13:47	Not match for com.#64	JC/MD	Not Ok
15	Q3311-14	MW-227B	VX048139.D	13 Oct 2025 14:08	Run @ lower dilution	JC/MD	Not Ok
16	Q3311-15	GW-DUP	VX048140.D	13 Oct 2025 14:28	Run @ lower dilution	JC/MD	Not Ok
17	Q3331-04	RINGWOOD	VX048141.D	13 Oct 2025 14:49	vial A pH<2 foamy sample	JC/MD	Ok
18	PB170063TB	PB170063TB	VX048142.D	13 Oct 2025 15:10		JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX101325

Review By	John Carlone	Review On	10/14/2025 8:13:18 AM
Supervise By	Maresh Dadoda	Supervise On	10/14/2025 3:53:26 PM
SubDirectory	VX101325	HP Acquire Method	HP Processing Method 82X091625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135805		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135806,VP135807		

19	Q3321-02	P001-DS-01	VX048143.D	13 Oct 2025 15:30	vial A pH#5.0	JC/MD	Ok
20	Q3326-04	TP-1	VX048144.D	13 Oct 2025 15:51	vial A pH#5.0	JC/MD	Ok
21	Q3326-08	TP-2	VX048145.D	13 Oct 2025 16:11	vial A pH#5.0	JC/MD	Ok
22	Q3327-02	HADLEY-ROAD-TP	VX048146.D	13 Oct 2025 16:32	vial A pH#5.0	JC/MD	Ok
23	Q3311-14	MW-227B	VX048147.D	13 Oct 2025 16:52	Run @ lower dilution,Not match for com.#64	JC/MD	Not Ok
24	Q3311-02	MW-219	VX048148.D	13 Oct 2025 17:13	Need straight run	JC/MD	Not Ok
25	Q3311-03MS	MW-219MS	VX048149.D	13 Oct 2025 17:33	Need straight run	JC/MD	Not Ok
26	Q3311-04MSD	MW-219MSD	VX048150.D	13 Oct 2025 17:54	Need straight run	JC/MD	Not Ok
27	VSTDCCC050	VSTDCCC050EC	VX048151.D	13 Oct 2025 18:15		JC/MD	Ok,M

M : Manual Integration

SOP ID :	M1311-TCLP-16	
SDG No :	N/A	Start Prep Date : 10/10/2025 Time : 17:00
Weigh By :	JP	End Prep Date : 10/11/2025 Time : 11:20
Balance ID :	WC SC-7	Combination Ratio : 20
pH Meter ID :	WC PH METER-1	ZHE Cleaning Batch : ~~N/A~~ 10
Extraction By :	JP	Initial Room Temperature: 23 °C
Filter By :	JP	Final Room Temperature: 22 °C
Pipette ID :	WC	TCLP Technician Signature : <i>JP</i>
Tumbler ID :	ZHE-1	Supervisor By : 12
TCLP Filter ID :	60828725	

Standard Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP114525
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
40ml VOA Vials	4127	N/A

Extraction Conformance/Non-Conformance Comments:

TUMBLER ZHE-1 checked, 30 rpm. ALL ZHE are extracted and given as vial A & B. Leck checked after 10 minutes of tumbling.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/13/25 10:30	<i>JP</i> <i>1000 Room</i>	<i>S.Y.</i> <i>1000 Lab</i>
	Preparation Group	Analysis Group

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB170063TB	LEB063	05	N/A	500	N/A	N/A	N/A	4.93	N/A	ZHE-1
Q3321-02	P001-DS-01	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q3326-04	TP-1	02	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q3326-08	TP-2	03	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q3327-02	HADLEY-ROAD	04	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB170063TB	LEB063	N/A	N/A	N/A	N/A	N/A	N/A
Q3321-02	P001-DS-01	N/A	N/A	N/A	N/A	100	N/A
Q3326-04	TP-1	N/A	N/A	N/A	N/A	100	N/A
Q3326-08	TP-2	N/A	N/A	N/A	N/A	100	N/A
Q3327-02	HADLEY-ROAD	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tcip zhe q3321

WorkList ID : 192395

Department : TCLP Extraction

Date : 10-10-2025 12:42:37

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3321-02	P001-DS-01	Solid	TCLP ZHE Extraction	Cool 4 deg C	ROYF02	D41	10/08/2025	1311 ZHE
Q3326-04	TP-1	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D31	10/10/2025	1311 ZHE
Q3326-08	TP-2	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D31	10/10/2025	1311 ZHE
Q3327-02	HADLEY-ROAD	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D31	10/10/2025	1311 ZHE

Date/Time 10/10/25 14:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Q3321-TCLP VOA

Date/Time 10/10/25 14:30

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Prep Standard - Chemical Standard Summary

Order ID : Q3321

Test : TCLP VOA

Prepbatch ID :

Sequence ID/Qc Batch ID: VX101325,

Standard ID :

VP134142,VP134149,VP134933,VP134956,VP134957,VP135480,VP135552,VP135805,VP135806,VP135807,

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	VP135805	10/13/2025	10/14/2025	John Carlone	None	None	Maresh Dadoda 10/15/2025

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	VP135806	10/13/2025	10/14/2025	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	VP135807	10/13/2025	10/14/2025	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

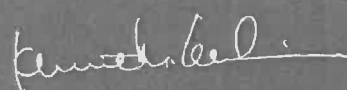
Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

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



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 (TWL)	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)	HG02JX	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 43mg/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 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	74-95-3	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	75-34-3	100 ppm	or-rat 108mg/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	or-rat 108mg/kg
29. Trichloroethene	95321	020724	0.10	10.00	20021.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	or-rat 725mg/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	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	1999.8	22.9	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-12-8	0.001 ppm	or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-93-4	20 ppm (8H)	or-rat 108mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	1999.8	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1847mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	or-rat 3600mg/kg
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	1999.8	22.9	563-58-6	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	10081-01-5	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	10081-02-6	N/A	N/A
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.8	22.9	830-20-6	N/A	or-rat 670mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	1999.8	22.9	79-00-5	10 ppm (45mg/m3/8H) (skin)	or-rat 936mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.8	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 2402mg/kg
45. Benzene	35162	050823	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.9	22.9	71-43-2	1 ppm	or-rat 4894mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.9	22.9	108-68-1	N/A	or-rat 2699mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.9	22.9	104-51-8	N/A	N/A
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.9	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40005.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
52. Toluene	35162	050823	0.05	5.00	40008.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	100-42-5	100 ppm	or-rat 5000mg/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	108-88-3	200 ppm	or-rat 5000mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	or-rat 1390mg/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	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	95-63-6	N/A	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-6	N/A	or-rat 5000mg/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	or-rat 2240mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
63. 1,2-Dichlorobenzene	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
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg

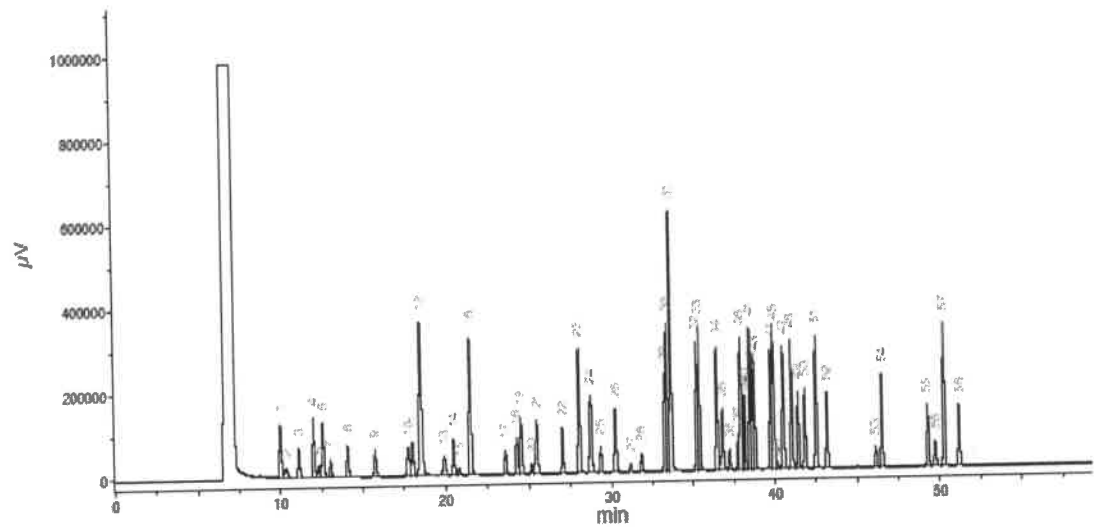


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

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	12.00
5	Iodomethane	12.21
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methoxyvinylene/Methyl 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	Trichloroethene	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.46
21	Dibromomethane/2,2-Dichloropropane	27.07
22	cis-1,2-Dichloroethene	28.03
23	Toluene	28.73
24	Ethyl methacrylate/Trans-1,2-Dichloropropane	29.34
25	1,1,2-Trichloroethane	30.24
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	31.84
28	1,2-Dibromomethane	33.06
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	35.76
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	1,2,4-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	49.26
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))		
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	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.



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. Rentes	021624
DATE		

Compound	(K049)	Lot	Dil.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Expanded	SDS Information				
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Actual Conc (µg/mL)	Uncertainty (µg/mL)	(Solvent Safety Info. On Attached pg.)	CASE	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 2480mg/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	1478-11-5	N/A	N/A	
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	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 120mg/kg	
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg	
12. Methyl methacrylate	(0404)	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 7872mg/kg	
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg	
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg	
15. Perchloroethane	(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	N/A	
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	N/A	
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	32261	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.8	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	20004.0	2000	NA	NA	0.042	NA	NA	2001.3	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	100 ppm	or-rat 725mg/kg	
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	N/A	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	108-93-4	20 ppm (8H)	or-rat 108mg/kg	
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg	
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	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	40006.0	2000	NA	NA	0.017	NA	NA	1999.9	22.9	71-43-2	1 ppm	or-rat 4894mg/kg	
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	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	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg	
51. Styrene	35162	050823	0.05	5.00	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	40008.2	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	40001.6	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	40006.8	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	1999.8	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	1999.7	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 1060mg/kg	
64. 1,3-Dichlorobenzene	35163	1															

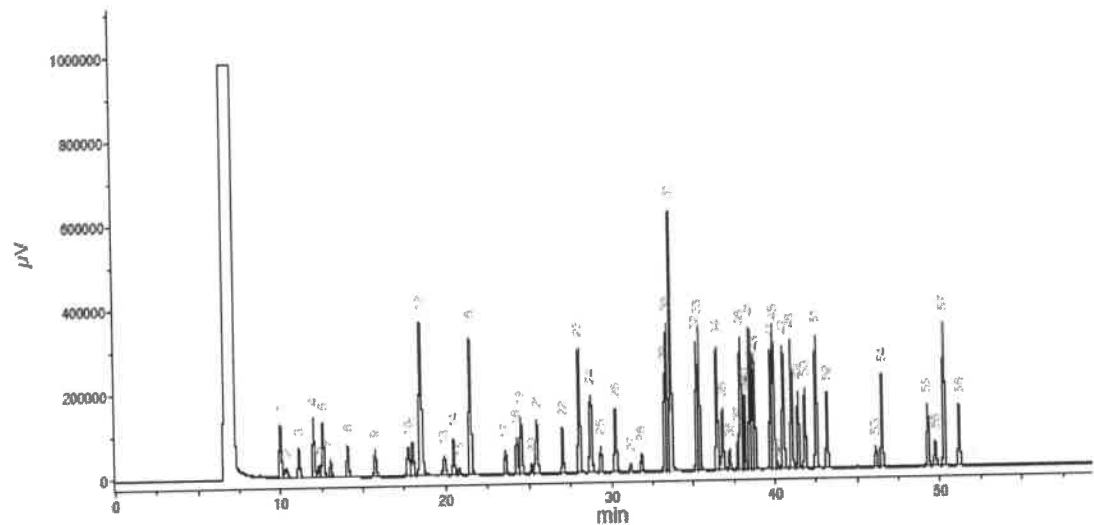


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

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	Methoxyvinyltoluene/Methyl 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	Bromochloropropane	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-Dichloropropane	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	35.76
34	Isopropylbenzene/Bromofarm	36.48
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	n-Propylbenzene	37.72
38	trans-1,4-Dichloro-3-butene	37.92
39	Bromobenzene	38.05
40	1,3,5-Trimethylbenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	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 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

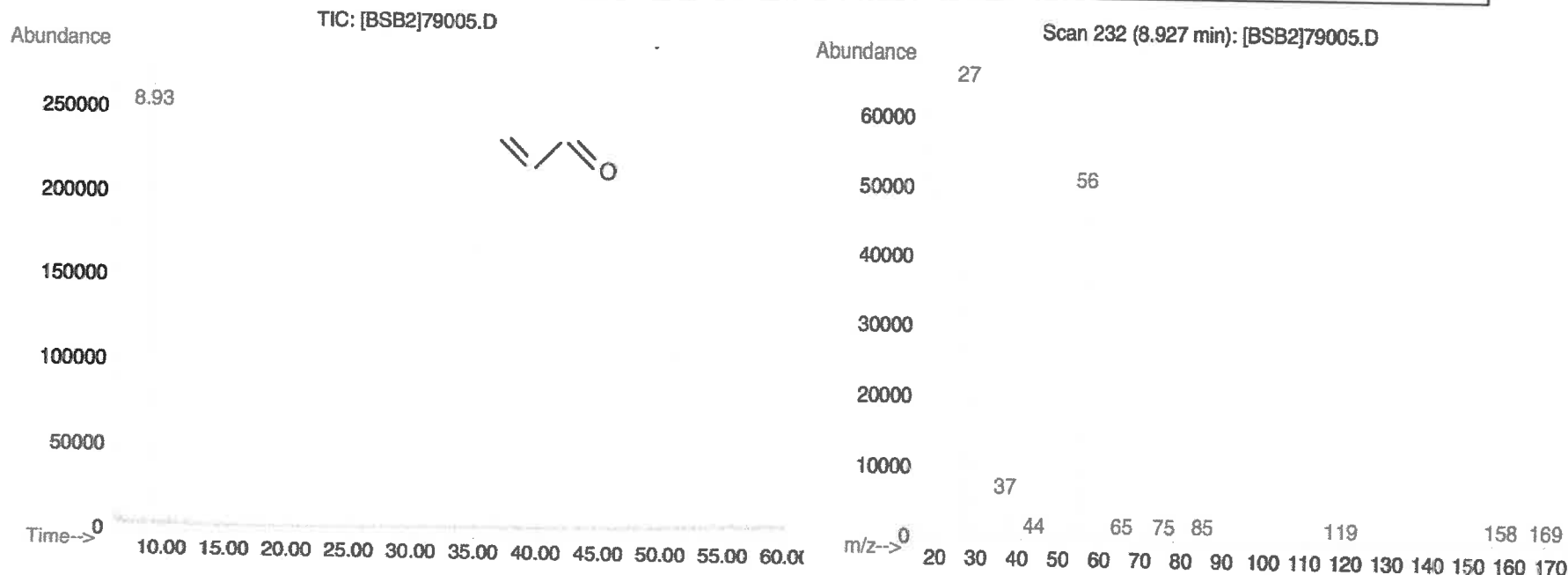
CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **091424**
Description: **Acrolein**Solvent(s):
Water Lot#
072324QExpiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTBWeight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Justin Dippold</i>	
Formulated By: Justin Dippold	091424 DATE
<i>Pedro L. Rentas</i>	
Reviewed By: Pedro L. Rentas	091424 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	0.05166	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 vials

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

Formulated By:	Justin Dippold
DATE: 091424	
Reviewed By:	Pedro L. Rentas
DATE: 091424	

Expiration Date: 101424

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 5000

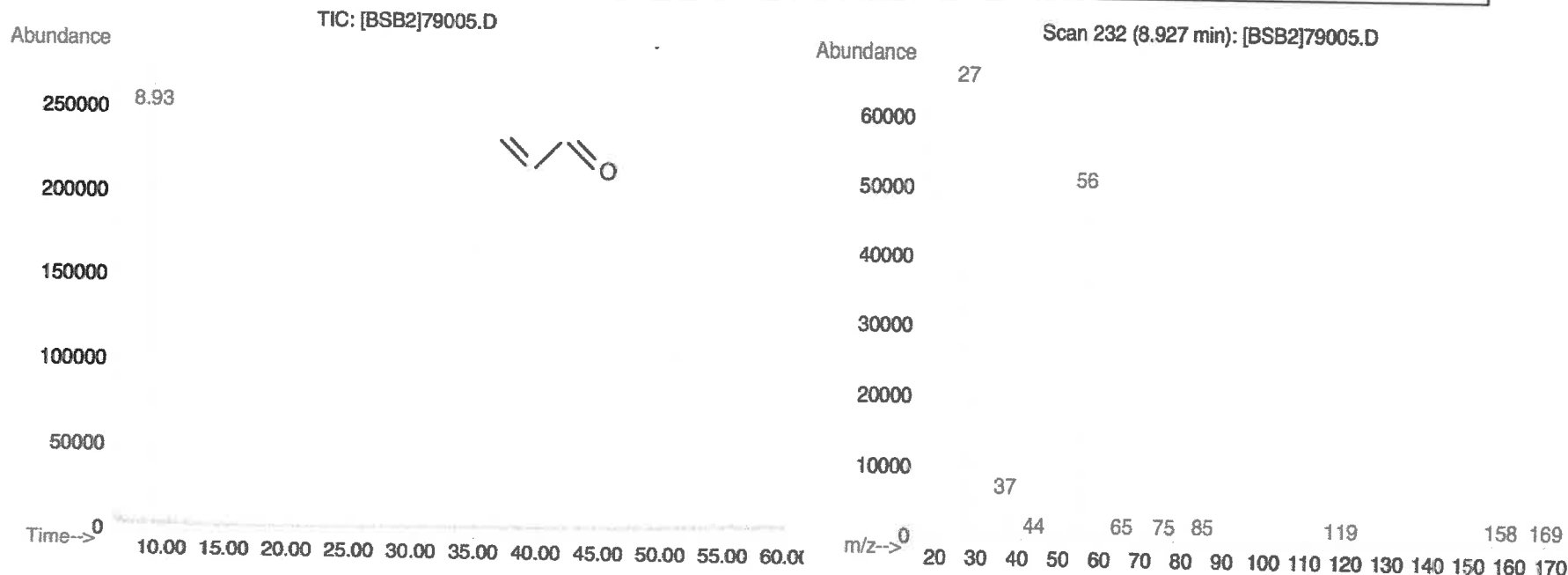
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

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	0.05175	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.





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**

See 1216124
20 vial
✓ 14630 to
✓ 14649

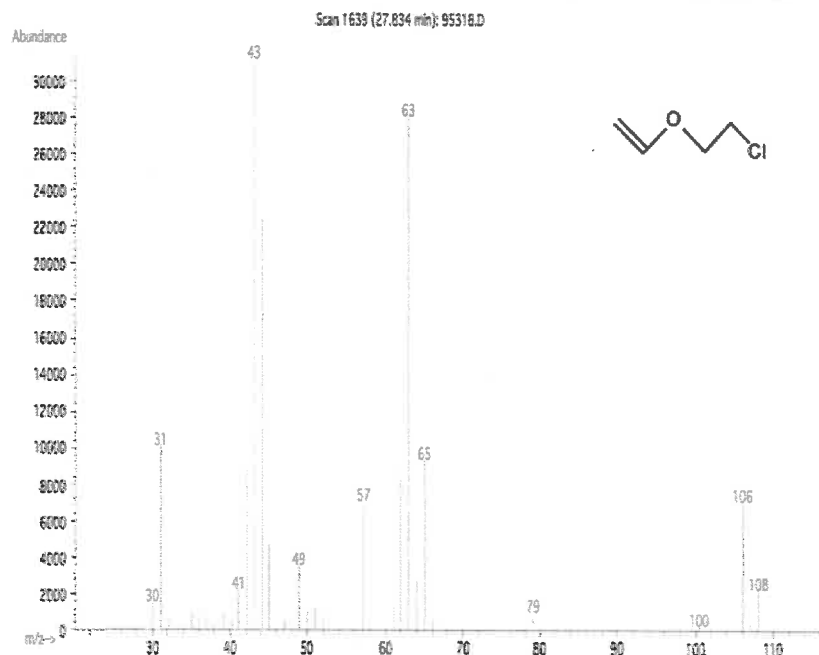
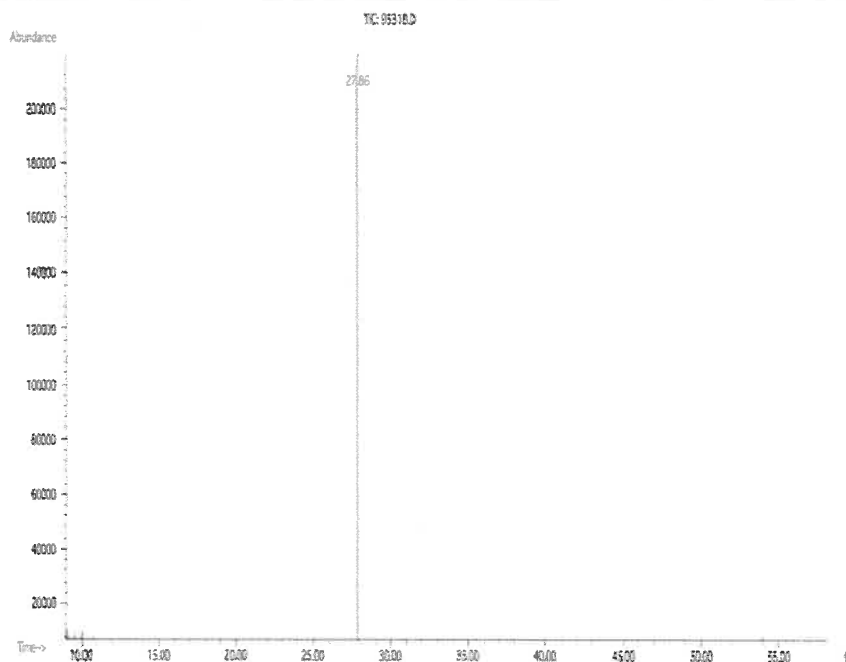
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Prashant Chauhan</i>		120524
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentas</i>		120524
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. 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.



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**

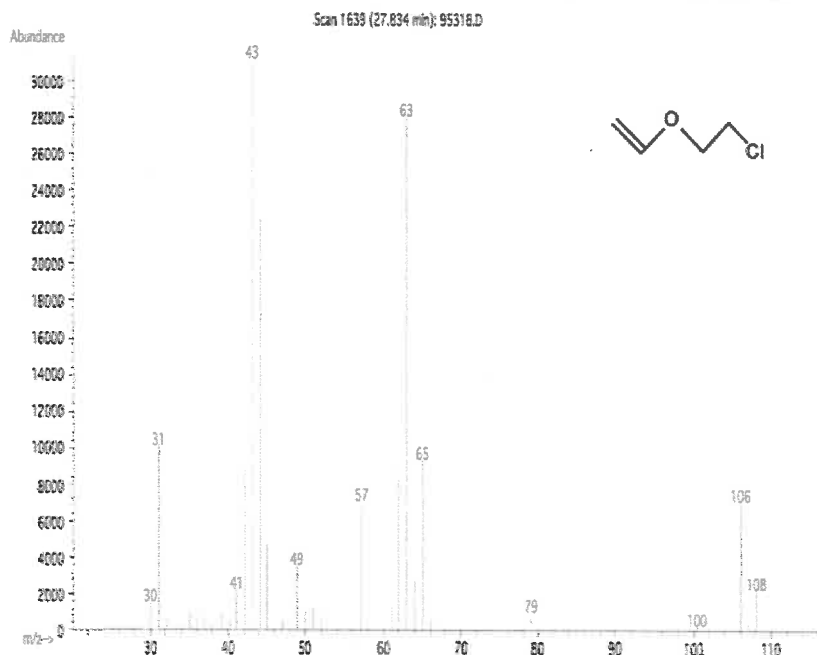
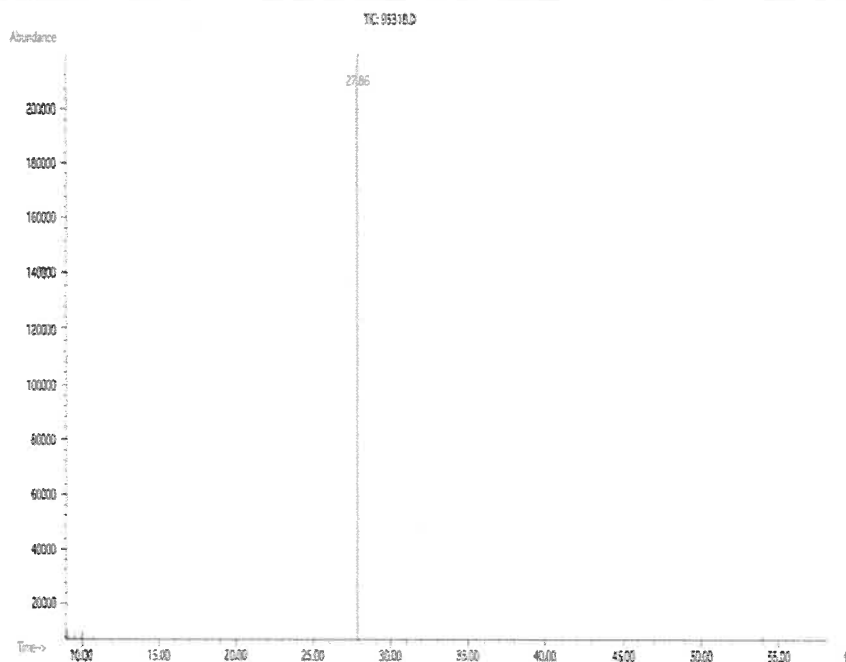
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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**

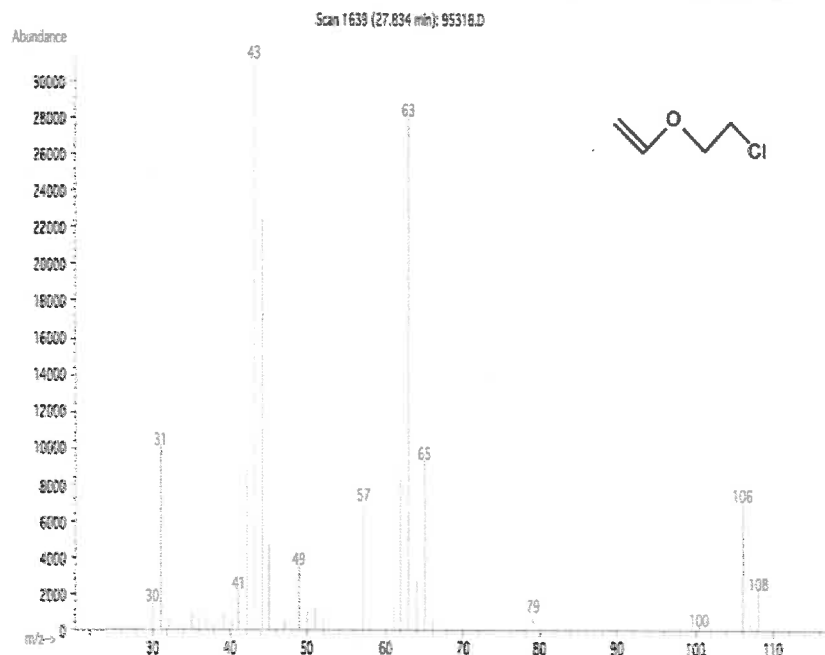
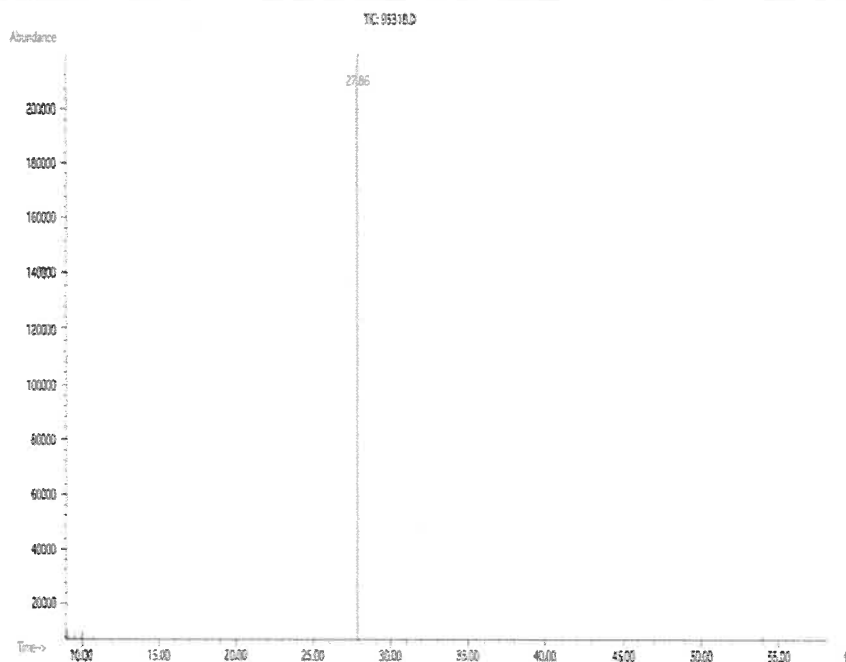
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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.
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Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

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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

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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**

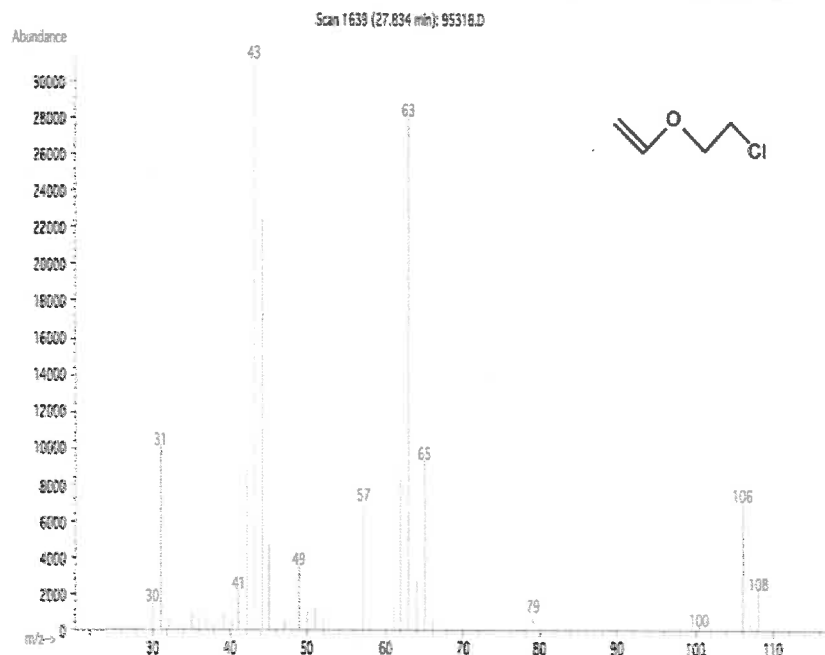
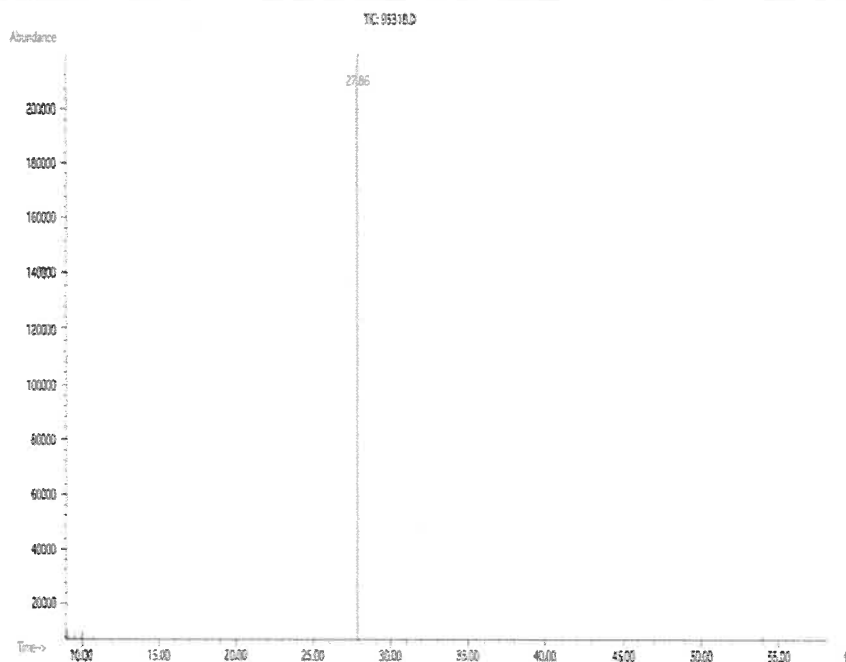
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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

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Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
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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

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

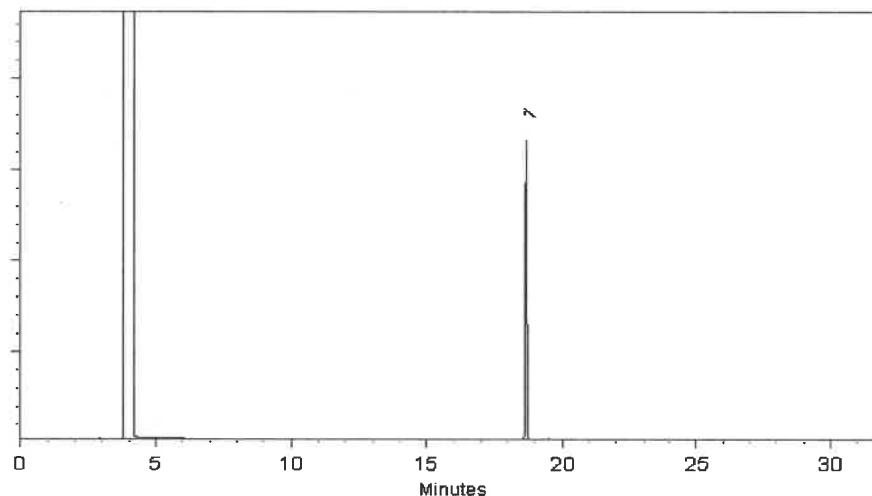
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Split Vent:

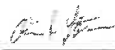
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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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:

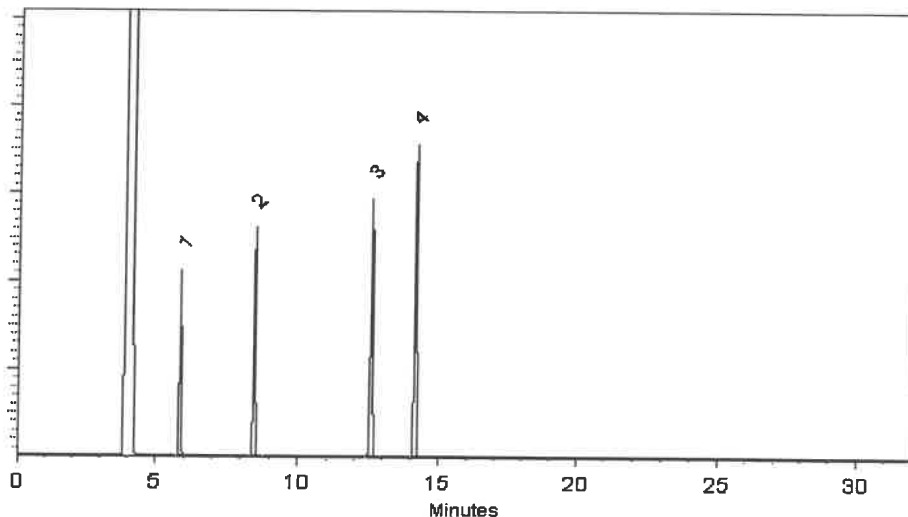
FID

Split Vent:

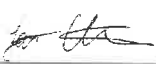
40 ml/min

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



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:

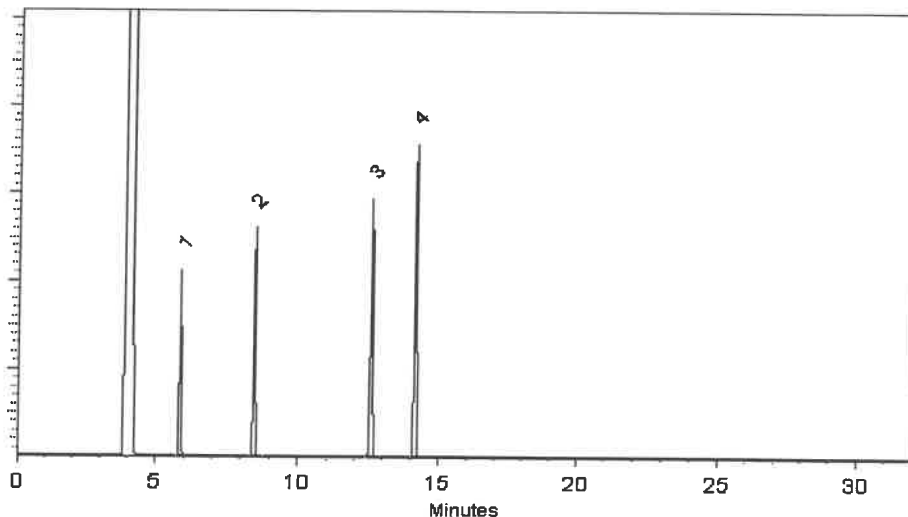
FID

Split Vent:

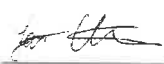
40 ml/min

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.
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- 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:

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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:

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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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Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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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)
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:

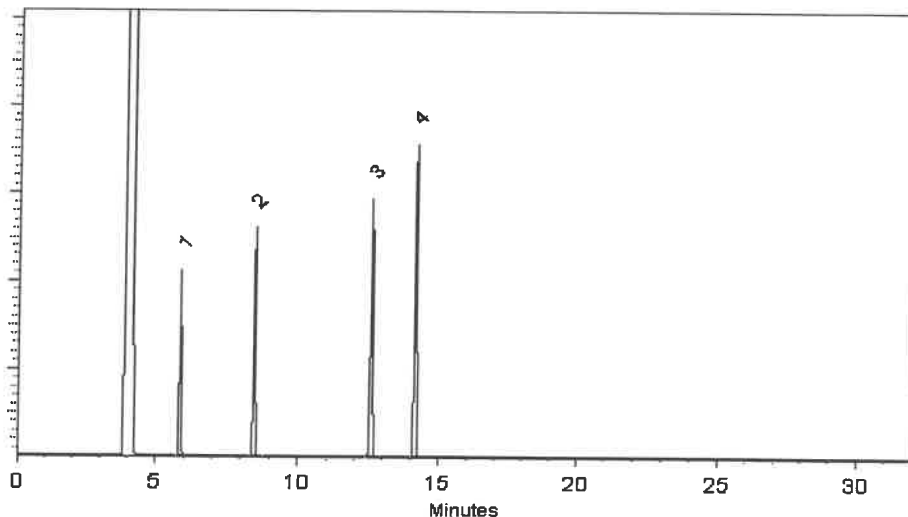
FID

Split Vent:

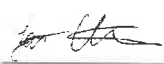
40 ml/min

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:

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- Purity of isomeric compounds is reported as the sum of the isomers.
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Certified Uncertainty Value 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:

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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

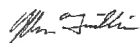
Expiration Date : April 30, 2027 **Storage:** 10°C or colder

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 SDS per April 18, 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.
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Purity Notes:

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Manufacturing Notes:

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10 vial.
Dec: 12/09/24
CERTIFIED REFERENCE MATERIAL

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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:

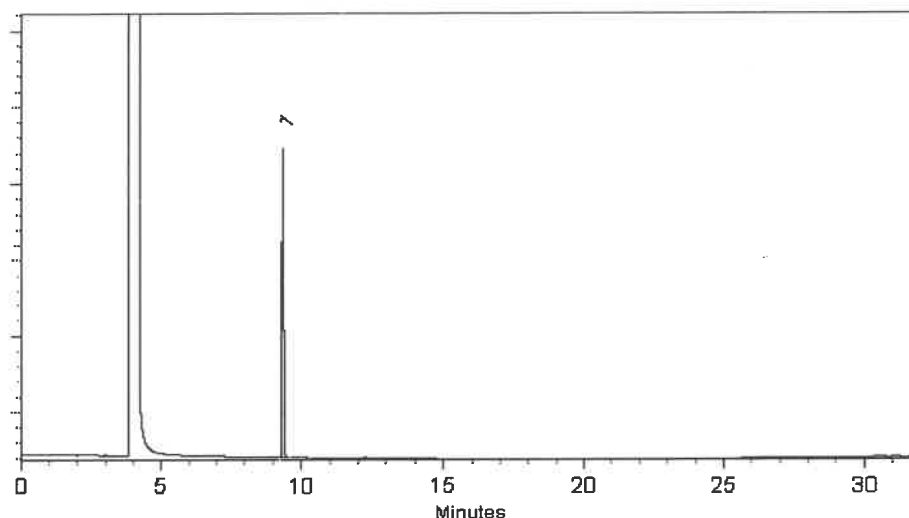
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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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.
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- 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:

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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:

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10 vial.
Dec: 12/09/24
CERTIFIED REFERENCE MATERIAL

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V14667-5
V14676



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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. : 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:

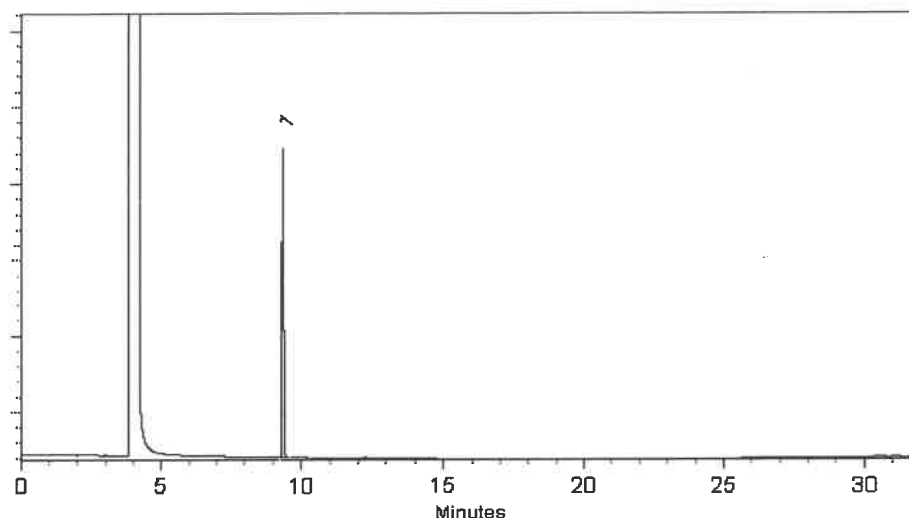
FID

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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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:

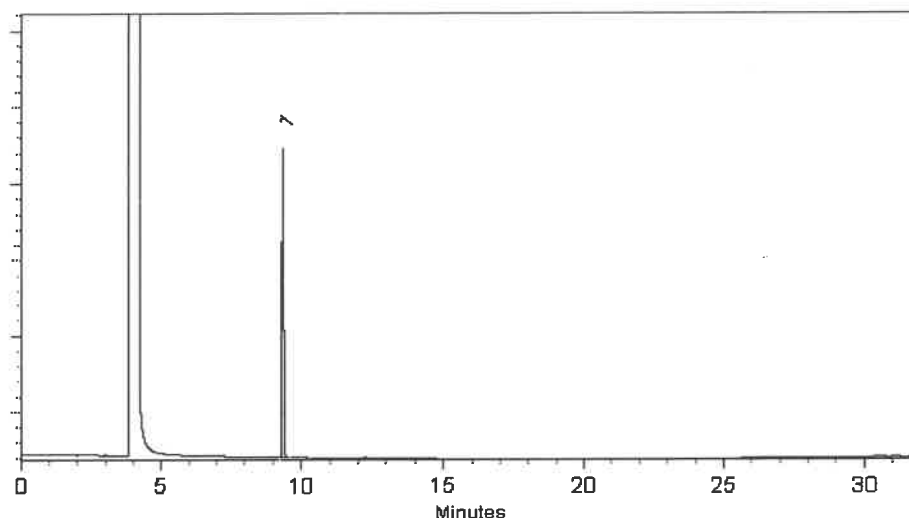
FID

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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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:

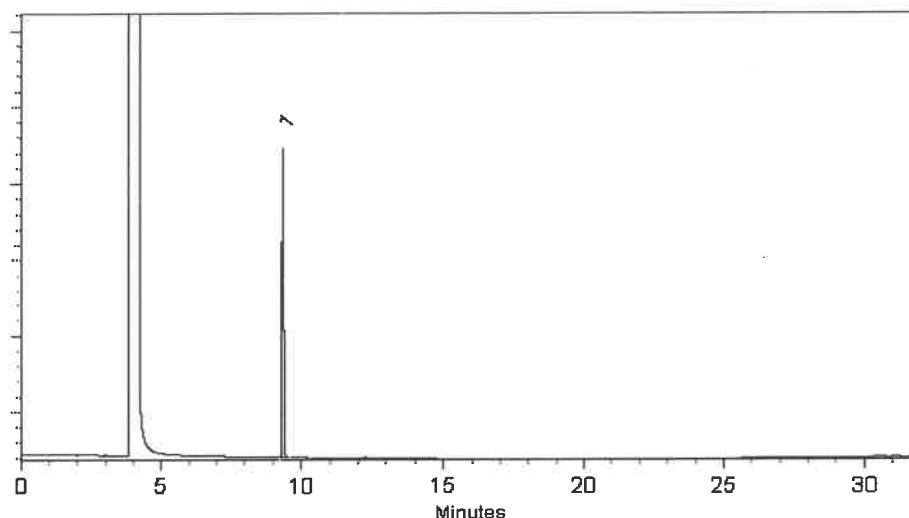
FID

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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Rec 12/17/24
30 ml
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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:

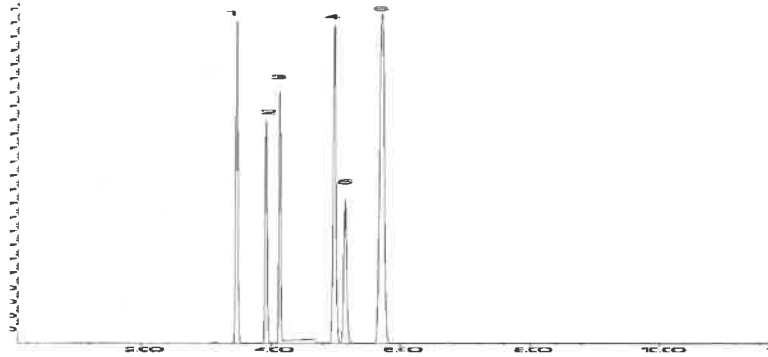
MSD

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
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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:

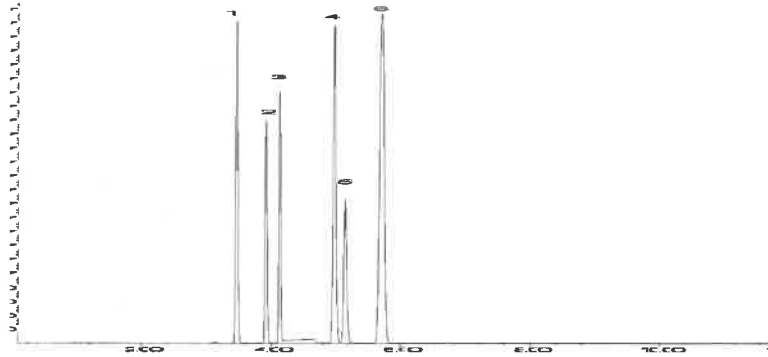
MSD

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.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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.)

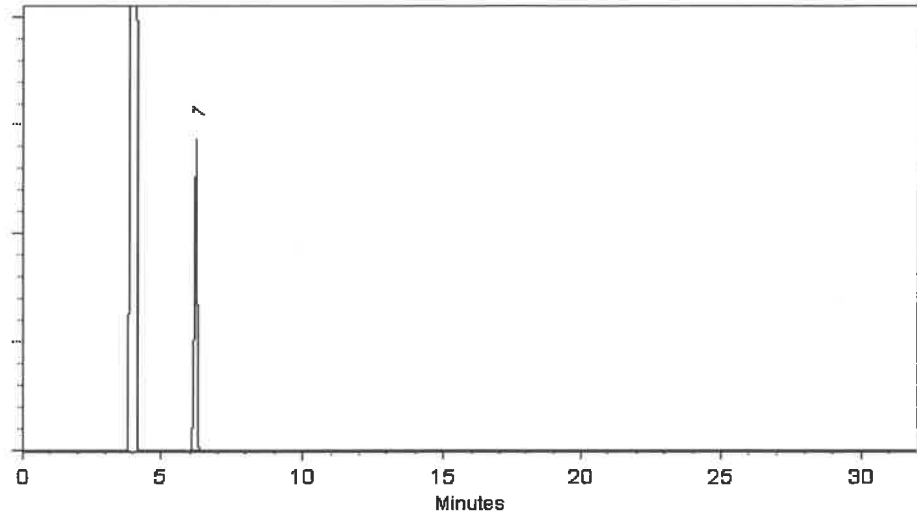
Inj. Temp:
200°C

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:

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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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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:

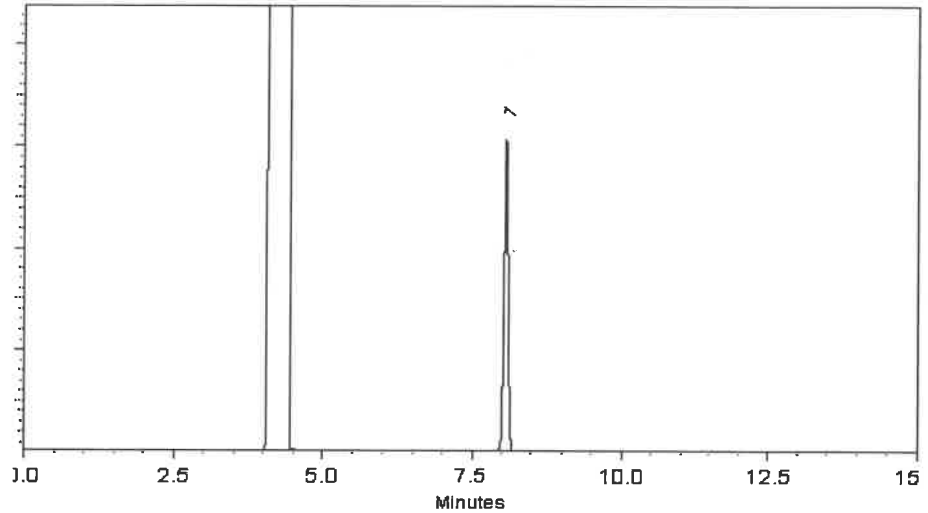
FID

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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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:

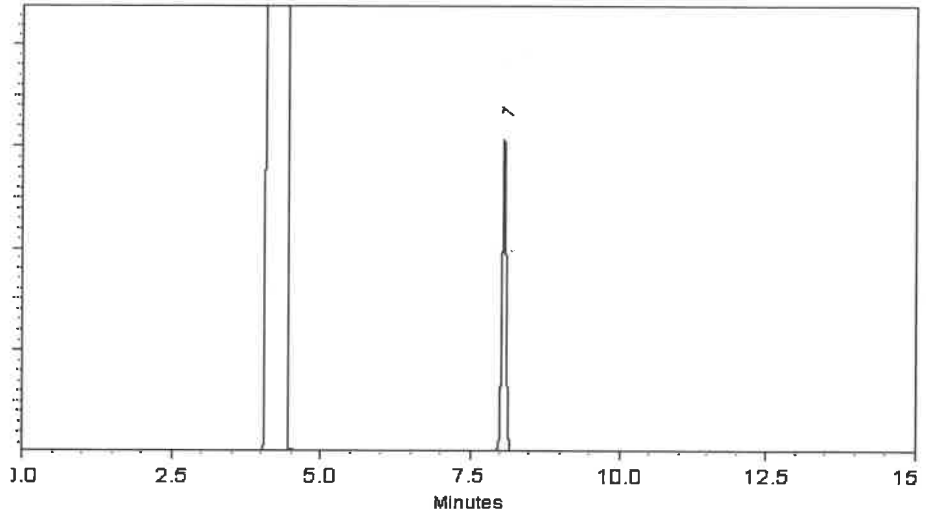
FID

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.
- 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 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



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
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Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production



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Fax: 1-814-353-1309

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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



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200 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



Certified Reference Material CRM

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

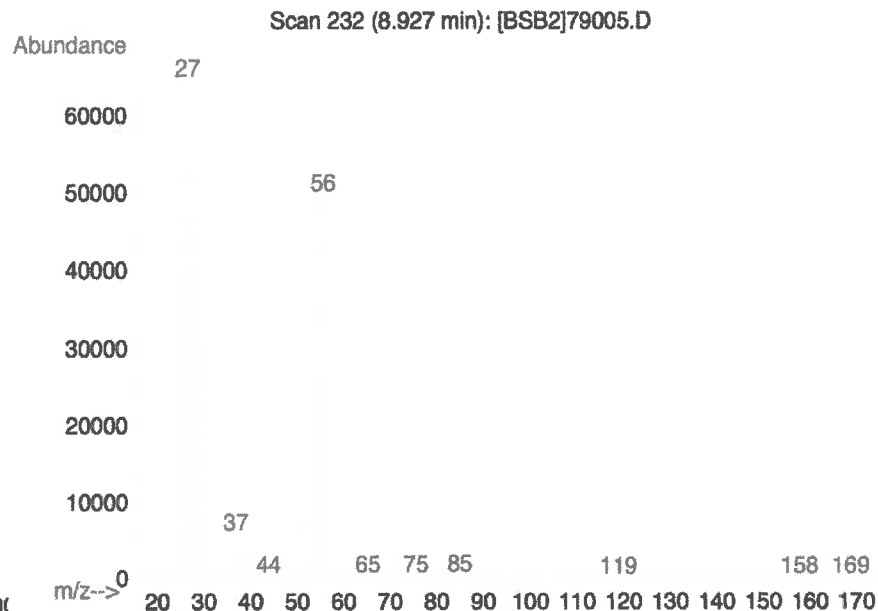
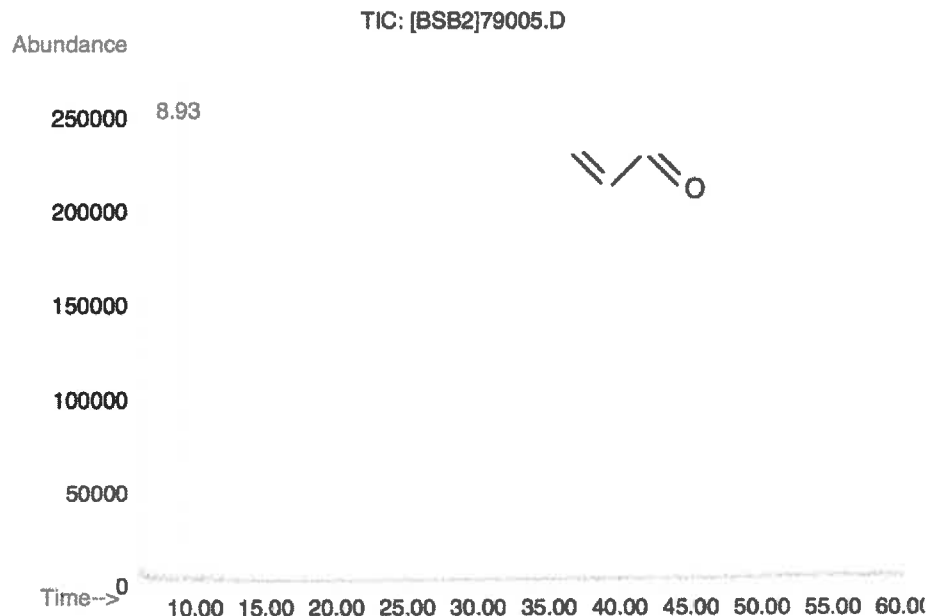
V15064 to
V15068

Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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.



- 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: Acrolein

Solvent(s):
 Water
 Lot#: 041725Q

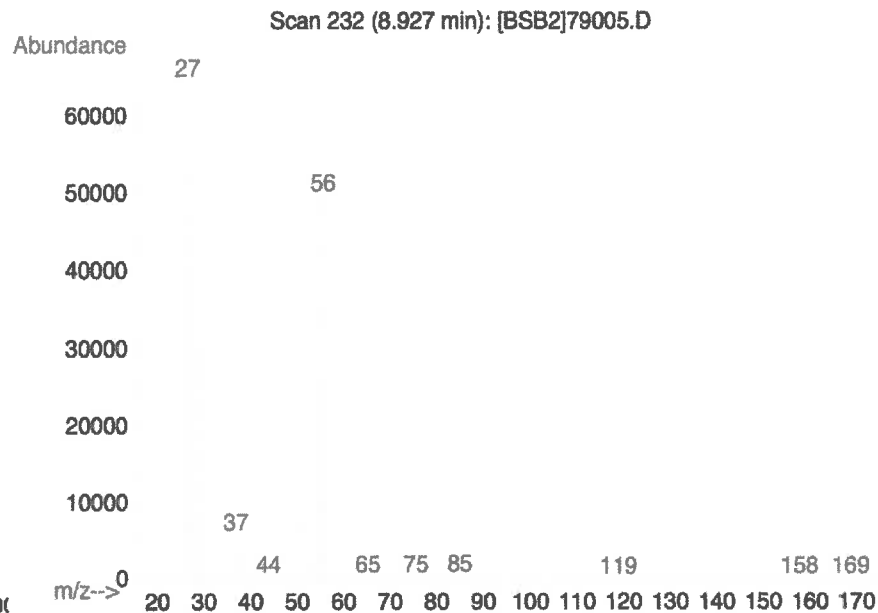
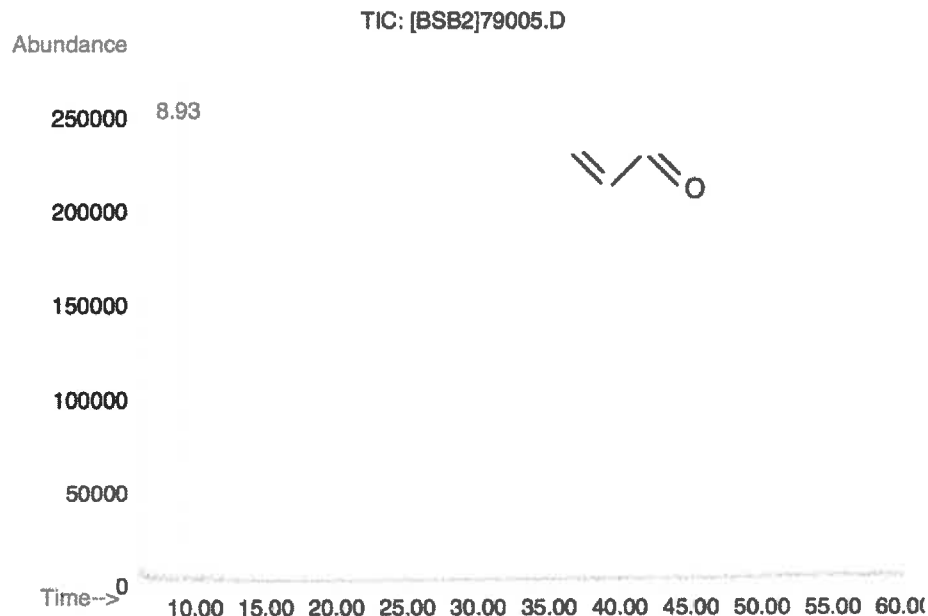
091525	
Formulated By: Anthony Mahoney	DATE
091525	
Reviewed By: Pedro L. Rentas	DATE

V15064 to
 V15068

Expiration Date: 101525
 Recommended Storage: Refrigerate (2°C to 8°C)
 Nominal Concentration (µg/mL): 5000
 NIST Test ID#: 6UTB
 Weight(s) shown below were combined and diluted to (mL): 10.0
 5E-05 Balance Uncertainty
 0.001 Flask Uncertainty

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.



- 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



Certified Reference Material CRM

Rec 09/16/25 5 vial



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091525
Description: Acrolein

Solvent(s):
Water
Lot#: 041725Q

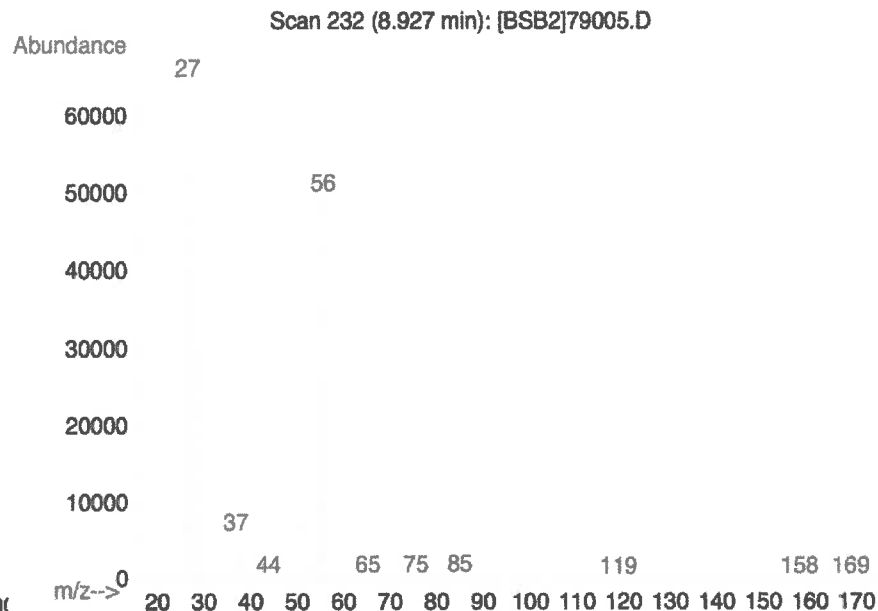
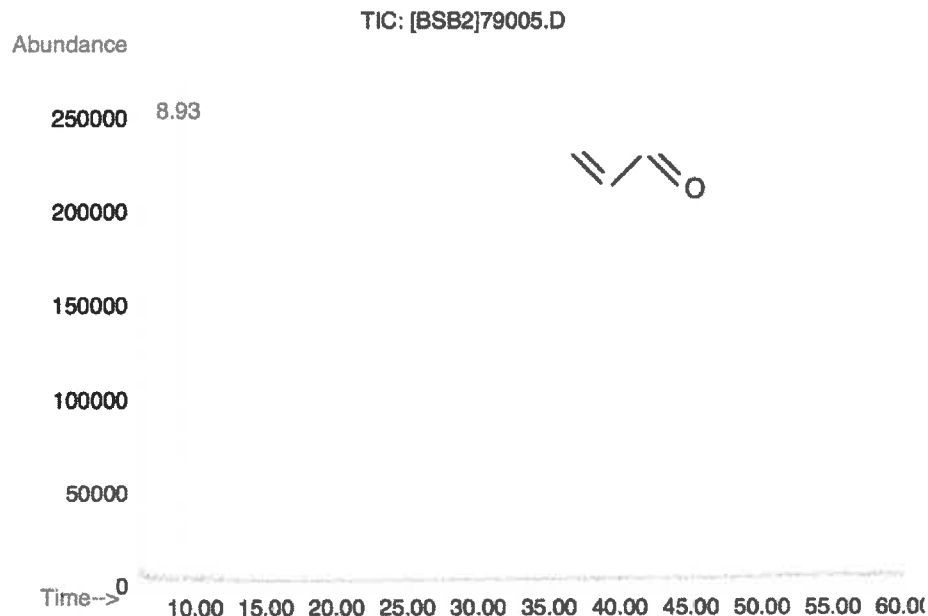
091525	
Formulated By: Anthony Mahoney	DATE
091525	
Reviewed By: Pedro L. Rentas	DATE

V15064 to
V15068

Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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



SHIPPING DOCUMENTS

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Q3321

USEPA

DateShipped: 10/8/2025

CarrierName: FedEx

AirbillNo: 8850 1194 6759

CHAIN OF CUSTODY RECORD

Case #: 918

Contact Name: Peter Lisichenko

Contact Phone: 347-276-6251

No: 2-100825-0004-0122-01

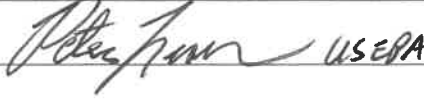
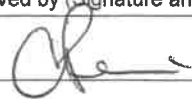
Cooler #: 1

Lab: Alliance Technical Group, LLC

Lab Phone: 805-526-7161

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-DS-01	P001	TAL VOCs	Soil	10/8/2025	14:15	3	5-g Encore sampler	4 C	
	P001-DS-01	P001	TAL SVOCs	Soil	10/8/2025	14:15	1	8 oz glass jar w/Teflon cap	4 C	
	P001-DS-01	P001	TAL PCBs	Soil	10/8/2025	14:15	1	8 oz glass jar w/Teflon cap	4 C	
	P001-DS-01	P001	TAL Pesticides	Soil	10/8/2025	14:15	1	8 oz glass cl jar w/Teflon cap	4 C	
	P001-DS-01	P001	TAL Metals+Hg&CN	Soil	10/8/2025	14:15	1	8 oz glass jar w/Teflon cap	4 C	
	P001-DS-01	P001	TCLP VOCs	Soil	10/8/2025	14:15	1	8 oz glass jar w/Teflon cap	4 C	
	P001-DS-01	P001	TCLP Metals+Hg	Soil	10/8/2025	14:15	1	8 oz glass jar w/Teflon cap	4 C	
	P001-DS-01	P001	TAL Pesticides	Soil	10/8/2025	14:15	1	8 oz glass jar w/Teflon cap	4 C	
	P001-DS-01	P001	TCLP SVOCs	Soil	10/8/2025	14:15	1	8 oz glass jar w/Teflon cap	4 C	
	P001-DS-01	P001	TCLP Herbicides	Soil	10/8/2025	14:15	1	8 oz glass jar w/Teflon cap	4 C	

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples All Analyses	 USEPA	10/8/25 1600h		10/9/25 10:00	IR Gun #1 3.4

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 : Q3321	ROYF02	Order Date : 10/9/2025 10:30:00 AM	Project Mgr :
Client Name : Weston Solutions, Inc.		Project Name : RFP 905-918	Report Type : Level 4
Client Contact : Smita Sumbaly		Receive DateTime : 10/9/2025 12:00:00 AM	EDD Type : EXCEL NOCLEANUP
Invoice Name : Weston Solutions, Inc.		Purchase Order : 10:00	Hard Copy Date :
Invoice Contact : Smita Sumbaly			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3321-01	P001-DS-01	Solid	10/08/2025	14:15	VOC-TCLVOA-10		8260D		10 Bus. Days

Relinquished By :

Date / Time : 10/9/25 10:00

Received By :

Date / Time : 10/09/25

Storage Area : VOA Refridgerator Room