

**DATA PACKAGE
VOLATILE ORGANICS**

PROJECT NAME : RFP 905

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

**ORDER ID : Q3447
ATTENTION : Smita Sumbaly**



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q3447

Project ID : RFP 905

Client : Weston Solutions, Inc.

Lab Sample Number

Q3447-01
Q3447-02
Q3447-03
Q3447-04
Q3447-05
Q3447-06
Q3447-07
Q3447-08

Client Sample Number

P001-TW1-251023-01
P001-TW1-251023-01
P001-TW2-251023-01
P001-TW2-251023-01
P001-TW3-251023-01
P001-TW3-251023-01
P001-TW4-251023-01
P001-TW4-251023-01

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 : _____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:20 am, Nov 06, 2025

Date: 10/31/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 905
Project # N/A
Order ID # Q3447
Test Name: TCLP VOA

A. Number of Samples and Date of Receipt:

4 Solid samples were received on 10/23/2025.

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 for {VX1027WBS01} with File ID: VX048357.D met requirements for all compounds except for Vinyl chloride[139%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike Duplicate for {VX1027WBSD01} with File ID: VX048358.D met requirements for all compounds except for Vinyl chloride[138%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.

The Continuous Calibration File ID VX048355.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

$$\frac{(A_x)(I_s)(D_f)}{(A_{is})(RRF)(V_0)}$$

Where,

A_x = Area for the compound to be measured

A_{is} = Area for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the initial calibration curve standard.

V₀ = Volume of water purged in milliliters (mL)

D_f = 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_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:21 am, Nov 06, 2025

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 is 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: Q3447

MATRIX: TCLP

METHOD: 8260D/1311

		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 VX048355.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. The Blank Spike for {VX1027WBS01} with File ID: VX048357.D met requirements for all compounds except for Vinyl chloride[139%] is failing high but no positive hit in associate sample therefore no corrective action taken. The Blank Spike Duplicate for {VX1027WBSD01} with File ID: VX048358.D met requirements for all compounds except for Vinyl chloride[138%] is failing high but no positive hit in associate sample therefore no corrective action taken.		✓	
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:			✓

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

NA NO YES

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.

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 9:21 am, Nov 06, 2025

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q3447

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: 10/31/2025

LAB CHRONICLE

OrderID:	Q3447	OrderDate:	10/23/2025 1:50:00 PM
Client:	Weston Solutions, Inc.	Project:	RFP 905
Contact:	Smita Sumbaly	Location:	D41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3447-02	P001-TW1-251023-01	TCLP	TCLP VOA	8260D	10/23/25		10/27/25	10/23/25
Q3447-04	P001-TW2-251023-01	TCLP	TCLP VOA	8260D	10/23/25		10/27/25	10/23/25
Q3447-06	P001-TW3-251023-01	TCLP	TCLP VOA	8260D	10/23/25		10/27/25	10/23/25
Q3447-08	P001-TW4-251023-01	TCLP	TCLP VOA	8260D	10/23/25		10/27/25	10/23/25

Hit Summary Sheet
SW-846

SDG No.: Q3447
Client: Weston Solutions, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	P001-TW1-251023-01							
Q3447-02	P001-TW1-251023- TCLP	2-Butanone		12.6	J	0.98	25.0	ug/L
Q3447-02	P001-TW1-251023- TCLP	Benzene		6.90		0.15	5.00	ug/L
		Total Voc :		19.5				
		Total Concentration:		19.5				



QC SUMMARY

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Surrogate Summary

SDG No.: Q3447

Client: Weston Solutions, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3447-02	P001-TW1-251023-01	1,2-Dichloroethane-d4	50	58.7	117		74	125
		Dibromofluoromethane	50	41.2	82		75	124
		Toluene-d8	50	47.6	95		86	113
		4-Bromofluorobenzene	50	55.8	112		77	121
Q3447-04	P001-TW2-251023-01	1,2-Dichloroethane-d4	50	53.6	107		74	125
		Dibromofluoromethane	50	40.5	81		75	124
		Toluene-d8	50	45.9	92		86	113
		4-Bromofluorobenzene	50	53.4	107		77	121
Q3447-06	P001-TW3-251023-01	1,2-Dichloroethane-d4	50	53.7	107		74	125
		Dibromofluoromethane	50	39.0	78		75	124
		Toluene-d8	50	46.4	93		86	113
		4-Bromofluorobenzene	50	53.7	107		77	121
Q3447-08	P001-TW4-251023-01	1,2-Dichloroethane-d4	50	54.4	109		74	125
		Dibromofluoromethane	50	38.6	77		75	124
		Toluene-d8	50	47.2	94		86	113
		4-Bromofluorobenzene	50	54.8	110		77	121
VX1027WBL01	VX1027WBL01	1,2-Dichloroethane-d4	50	52.5	105		74	125
		Dibromofluoromethane	50	40.3	81		75	124
		Toluene-d8	50	45.0	90		86	113
		4-Bromofluorobenzene	50	47.0	94		77	121
VX1027WBS01	VX1027WBS01	1,2-Dichloroethane-d4	50	59.3	119		74	125
		Dibromofluoromethane	50	43.6	87		75	124
		Toluene-d8	50	51.4	103		86	113
		4-Bromofluorobenzene	50	51.8	104		77	121
VX1027WBSD0	VX1027WBSD01	1,2-Dichloroethane-d4	50	55.7	111		74	125
		Dibromofluoromethane	50	42.2	84		75	124
		Toluene-d8	50	50.0	100		86	113
		4-Bromofluorobenzene	50	49.6	99		77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3447</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Weston Solutions, Inc.</u>	Datafile :	<u>VX048357.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1027WBS01	Vinyl chloride	20	27.7	ug/L	139		*	65	117	
	1,1-Dichloroethene	20	20.6	ug/L	103			74	110	
	2-Butanone	100	87.9	ug/L	88			65	122	
	Carbon Tetrachloride	20	18.2	ug/L	91			77	113	
	Chloroform	20	21.9	ug/L	110			79	113	
	Benzene	20	20.2	ug/L	101			82	109	
	1,2-Dichloroethane	20	21.7	ug/L	109			80	115	
	Trichloroethene	20	19.9	ug/L	100			77	113	
	Tetrachloroethene	20	19.5	ug/L	98			67	123	
	Chlorobenzene	20	19.6	ug/L	98			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3447</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Weston Solutions, Inc.</u>	Datafile :	<u>VX048358.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX1027WBSD01	Vinyl chloride	20	27.5	ug/L	138	1	*	65	117	19
	1,1-Dichloroethene	20	20.8	ug/L	104	1		74	110	20
	2-Butanone	100	84.8	ug/L	85	3		65	122	26
	Carbon Tetrachloride	20	18.6	ug/L	93	2		77	113	15
	Chloroform	20	21.6	ug/L	108	2		79	113	20
	Benzene	20	20.4	ug/L	102	1		82	109	15
	1,2-Dichloroethane	20	21.1	ug/L	106	3		80	115	20
	Trichloroethene	20	19.5	ug/L	98	2		77	113	15
	Tetrachloroethene	20	20.4	ug/L	102	4		67	123	15
	Chlorobenzene	20	19.9	ug/L	100	2		82	109	15

VOLATILE METHOD BLANK SUMMARY

Client ID

VX1027WBL01

Lab Name: Alliance

Contract: ROYF02

Lab Code: ACE

SDG NO.: Q3447

Lab File ID: VX048356.D

Lab Sample ID: VX1027WBL01

Date Analyzed: 10/27/2025

Time Analyzed: 09:37

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
VX1027WBS01	VX1027WBS01	VX048357.D	10/27/2025
VX1027WBSD01	VX1027WBSD01	VX048358.D	10/27/2025
P001-TW1-251023-01	Q3447-02	VX048376.D	10/27/2025
P001-TW2-251023-01	Q3447-04	VX048377.D	10/27/2025
P001-TW3-251023-01	Q3447-06	VX048378.D	10/27/2025
P001-TW4-251023-01	Q3447-08	VX048379.D	10/27/2025

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.: Q3447

Lab File ID: VX048226.D

BFB Injection Date: 10/20/2025

Instrument ID: MSVOA_X

BFB Injection Time: 08:15

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	17.7
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 100.0% of mass 95	76.5
175	5.0 - 9.0% of mass 174	5.8 (7.5) 1
176	95.0 - 101.0% of mass 174	73.8 (96.4) 1
177	5.0 - 9.0% of mass 176	4.8 (6.5) 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	VX048229.D	10/20/2025	10:59
VSTDIC020	VSTDIC020	VX048231.D	10/20/2025	11:40
VSTDIC050	VSTDIC050	VX048232.D	10/20/2025	12:01
VSTDIC100	VSTDIC100	VX048233.D	10/20/2025	12:22
VSTDIC150	VSTDIC150	VX048234.D	10/20/2025	12:43
VSTDIC005	VSTDIC005	VX048236.D	10/20/2025	13:49



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
Lab Code: ACE
Lab File ID: VX048354.D
Instrument ID: MSVOA_X
GC Column: DB-624UI ID: 0.18 (mm)

Contract: ROYF02
SDG NO.: Q3447
BFB Injection Date: 10/27/2025
BFB Injection Time: 08:05
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.4
75	30.0 - 60.0% of mass 95	52.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	70.9
175	5.0 - 9.0% of mass 174	5.3 (7.4) 1
176	95.0 - 101.0% of mass 174	71 (100.1) 1
177	5.0 - 9.0% of mass 176	4.8 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX048355.D	10/27/2025	09:05
VX1027WBL01	VX1027WBL01	VX048356.D	10/27/2025	09:37
VX1027WBS01	VX1027WBS01	VX048357.D	10/27/2025	10:04
VX1027WBSD01	VX1027WBSD01	VX048358.D	10/27/2025	10:34
P001-TW1-251023-01	Q3447-02	VX048376.D	10/27/2025	16:45
P001-TW2-251023-01	Q3447-04	VX048377.D	10/27/2025	17:06
P001-TW3-251023-01	Q3447-06	VX048378.D	10/27/2025	17:26
P001-TW4-251023-01	Q3447-08	VX048379.D	10/27/2025	17:47

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ROYF02
 Lab Code: ACE SDG NO.: Q3447
 Lab File ID: VX048355.D Date Analyzed: 10/27/2025
 Instrument ID: MSVOA_X Time Analyzed: 09:05
 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	128546	5.53	221660	6.74	197395	10.04
UPPER LIMIT	257092	6.031	443320	7.239	394790	10.537
LOWER LIMIT	64273	5.031	110830	6.239	98697.5	9.537
EPA SAMPLE NO.						
P001-TW1-251023-01	137738	5.54	279749	6.75	288127	10.04
P001-TW2-251023-01	101333	5.54	205553	6.75	212555	10.04
P001-TW3-251023-01	104175	5.54	207774	6.75	217355	10.04
P001-TW4-251023-01	121486	5.54	236810	6.75	246825	10.04
VX1027WBL01	108748	5.53	209060	6.74	200526	10.04
VX1027WBS01	142483	5.53	244417	6.74	221107	10.04
VX1027WBSD01	131714	5.53	225739	6.74	200520	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.: Q3447
Lab File ID: VX048355.D Date Analyzed: 10/27/2025
Instrument ID: MSVOA_X Time Analyzed: 09:05
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	97107	12				
UPPER LIMIT	194214	12.5				
LOWER LIMIT	48553.5	11.5				
EPA SAMPLE NO.						
P001-TW1-251023-01	151406	12.01				
P001-TW2-251023-01	104644	12.01				
P001-TW3-251023-01	111222	12.01				
P001-TW4-251023-01	128536	12.01				
VX1027WBL01	91743	12.01				
VX1027WBS01	110523	12.01				
VX1027WBSD01	97723	12.00				

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

1
2
3
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11
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14
15
16
17

Report of Analysis

Client: Weston Solutions, Inc.
Project: RFP 905
Client Sample ID: P001-TW1-251023-01
Lab Sample ID: Q3447-02
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 10/23/25
Date Received: 10/23/25
SDG No.: Q3447
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	UQ	1	0.26	5.00	ug/L	10/27/25 16:45	VX102725
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	5.00	ug/L	10/27/25 16:45	VX102725
78-93-3	2-Butanone	12.6	J	1	0.98	25.0	ug/L	10/27/25 16:45	VX102725
56-23-5	Carbon Tetrachloride	0.25	U	1	0.25	5.00	ug/L	10/27/25 16:45	VX102725
67-66-3	Chloroform	0.25	U	1	0.25	5.00	ug/L	10/27/25 16:45	VX102725
71-43-2	Benzene	6.90		1	0.15	5.00	ug/L	10/27/25 16:45	VX102725
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	5.00	ug/L	10/27/25 16:45	VX102725
79-01-6	Trichloroethene	0.090	U	1	0.090	5.00	ug/L	10/27/25 16:45	VX102725
127-18-4	Tetrachloroethene	0.23	U	1	0.23	5.00	ug/L	10/27/25 16:45	VX102725
108-90-7	Chlorobenzene	0.12	U	1	0.12	5.00	ug/L	10/27/25 16:45	VX102725
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	58.7			74 - 125	117%	SPK: 50		
1868-53-7	Dibromofluoromethane	41.2			75 - 124	82%	SPK: 50		
2037-26-5	Toluene-d8	47.6			86 - 113	95%	SPK: 50		
460-00-4	4-Bromofluorobenzene	55.8			77 - 121	112%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	138000							
540-36-3	1,4-Difluorobenzene	280000							
3114-55-4	Chlorobenzene-d5	288000							
3855-82-1	1,4-Dichlorobenzene-d4	151000							

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\VX102725\
 Data File : VX048376.D
 Acq On : 27 Oct 2025 16:45
 Operator : JC/MD
 Sample : Q3447-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 P001-TW1-251023-01

Quant Time: Oct 28 01:56:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

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

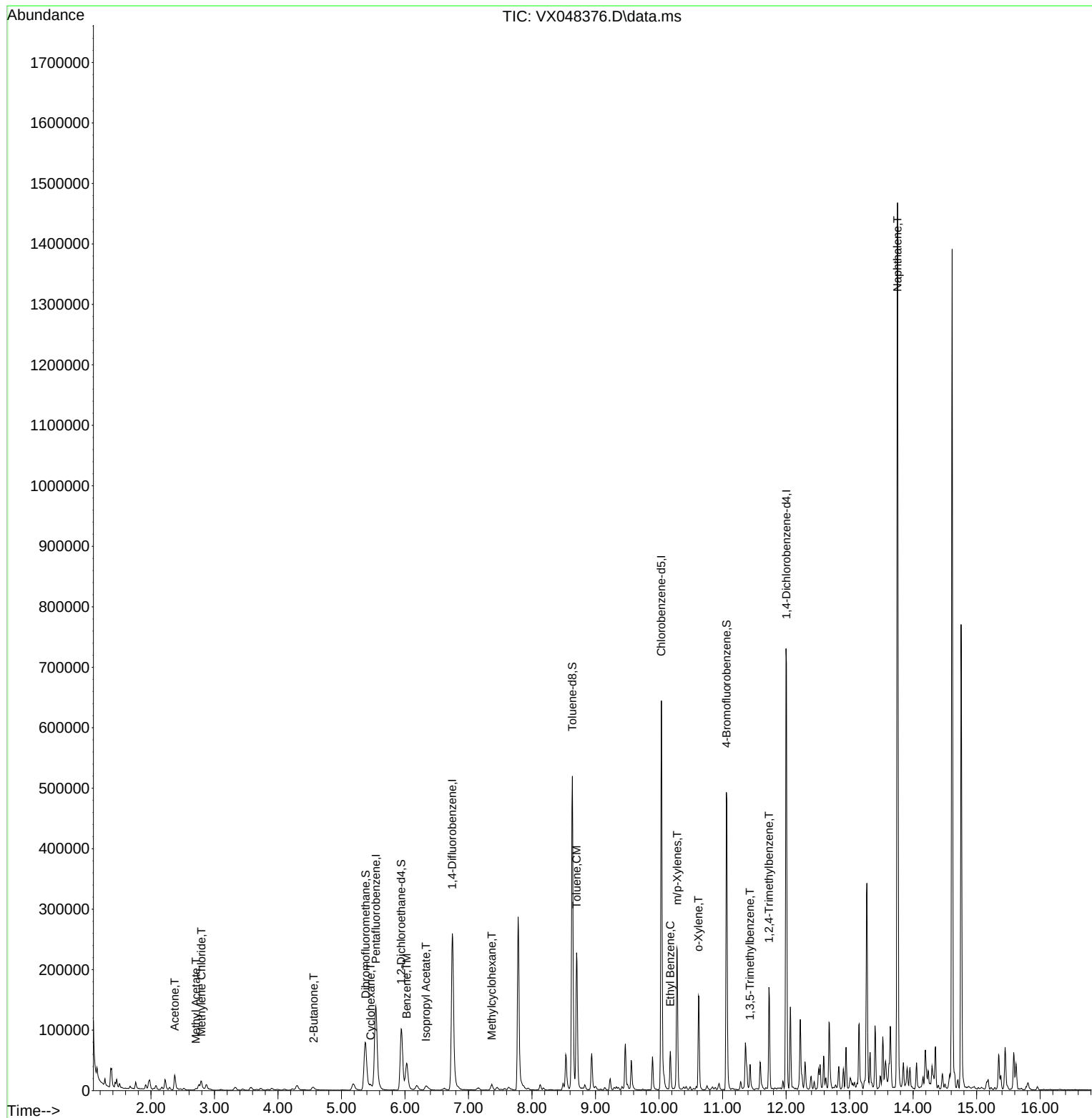
Internal Standards						
1) Pentafluorobenzene	5.544	168	137738	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	279749	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	288127	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	151406	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	113306	58.672	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 117.340%#			
35) Dibromofluoromethane	5.379	113	78712	41.214	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 82.420%			
50) Toluene-d8	8.635	98	318521	47.582	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 95.160%			
62) 4-Bromofluorobenzene	11.061	95	142005	55.762	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.520%			
Target Compounds						
					Qvalue	
16) Acetone	2.374	43	33669	50.821	ug/l	95
18) Methyl Acetate	2.709	43	2286	1.652	ug/l #	62
20) Methylene Chloride	2.794	84	7025	4.352	ug/l	93
25) 2-Butanone	4.562	43	10549	12.580	ug/l #	87
31) Cyclohexane	5.458	56	4974	2.075	ug/l	98
39) Methylcyclohexane	7.367	83	3648	1.138	ug/l	90
40) Benzene	6.025	78	54453	6.909	ug/l	96
43) Isopropyl Acetate	6.330	43	8523	2.306	ug/l #	94
52) Toluene	8.702	92	89735	17.923	ug/l	100
67) Ethyl Benzene	10.177	91	37498	3.398	ug/l	99
68) m/p-Xylenes	10.287	106	56688	13.826	ug/l	96
69) o-Xylene	10.622	106	33552	8.476	ug/l	98
80) 1,3,5-Trimethylbenzene	11.433	105	18215	1.990	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	74741	8.183	ug/l	99
95) Naphthalene	13.756	128	862778	98.118	ug/l	100

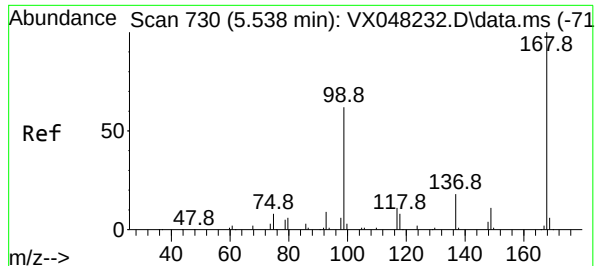
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
Data File : VX048376.D
Acq On : 27 Oct 2025 16:45
Operator : JC/MD
Sample : Q3447-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
P001-TW1-251023-01

Quant Time: Oct 28 01:56:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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: VX048376.D

Acq: 27 Oct 2025 16:45

Instrument :

MSVOA_X

ClientSampleId :

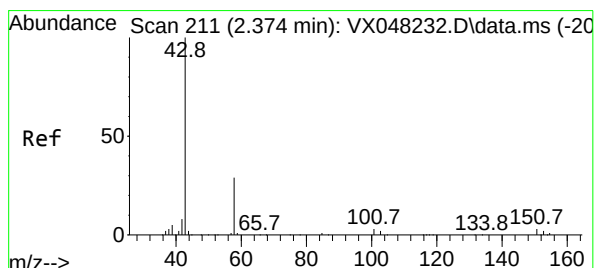
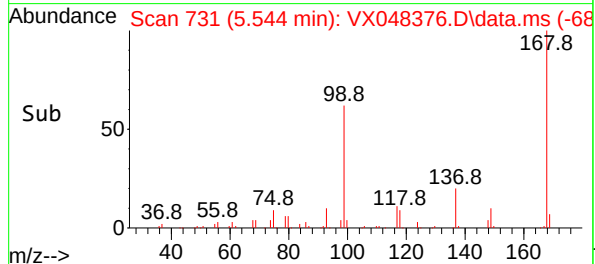
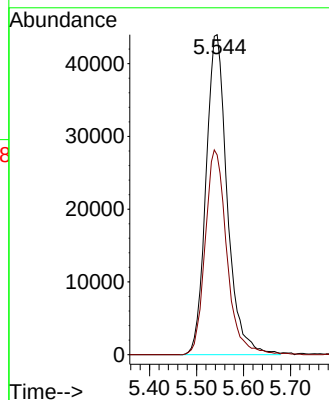
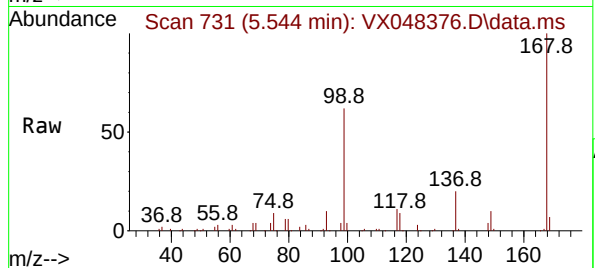
P001-TW1-251023-01

Tgt Ion:168 Resp: 137738

Ion Ratio Lower Upper

168 100

99 62.4 46.4 69.6



#16

Acetone

Concen: 50.821 ug/l

RT: 2.374 min Scan# 211

Delta R.T. 0.000 min

Lab File: VX048376.D

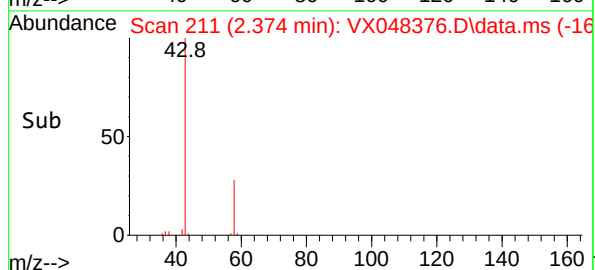
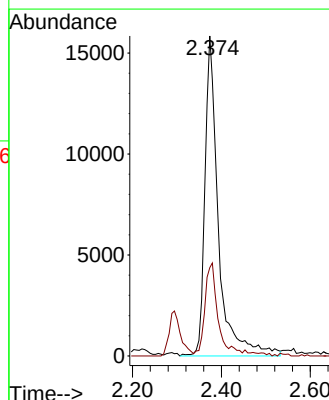
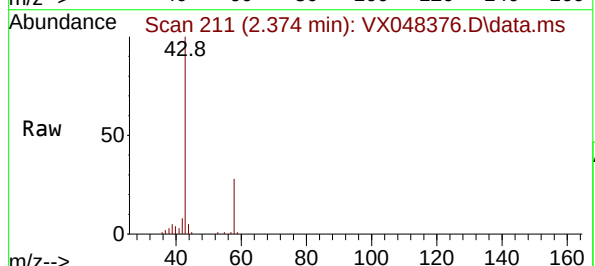
Acq: 27 Oct 2025 16:45

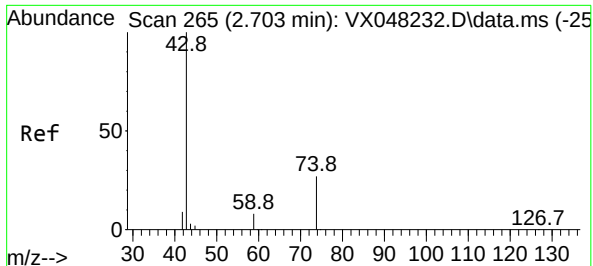
Tgt Ion: 43 Resp: 33669

Ion Ratio Lower Upper

43 100

58 26.8 23.4 35.2





#18

Methyl Acetate

Concen: 1.652 ug/l

RT: 2.709 min Scan# 2

Delta R.T. 0.012 min

Lab File: VX048376.D

Acq: 27 Oct 2025 16:45

Instrument :

MSVOA_X

ClientSampleId :

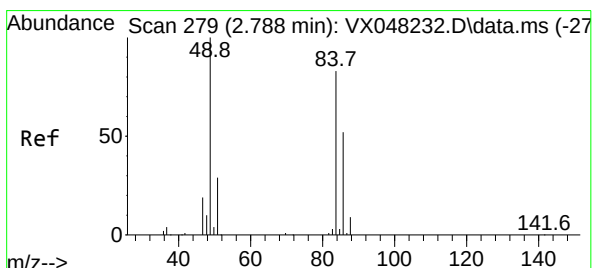
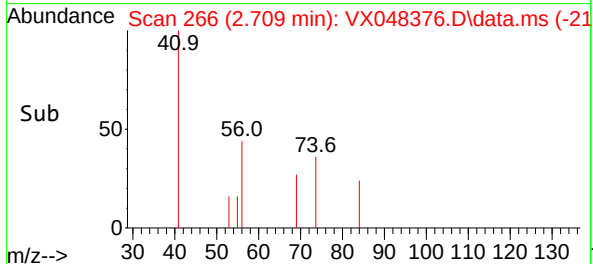
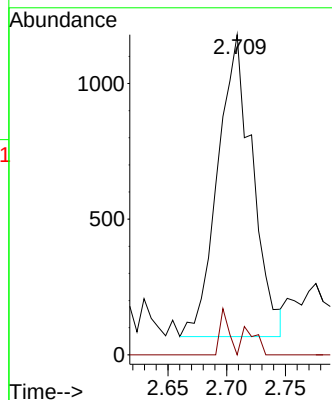
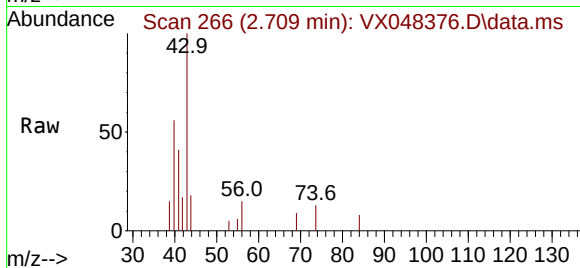
P001-TW1-251023-01

Tgt Ion: 43 Resp: 2286

Ion Ratio Lower Upper

43 100

74 3.9 17.5 26.3#



#20

Methylene Chloride

Concen: 4.352 ug/l

RT: 2.794 min Scan# 280

Delta R.T. 0.006 min

Lab File: VX048376.D

Acq: 27 Oct 2025 16:45

Tgt Ion: 84 Resp: 7025

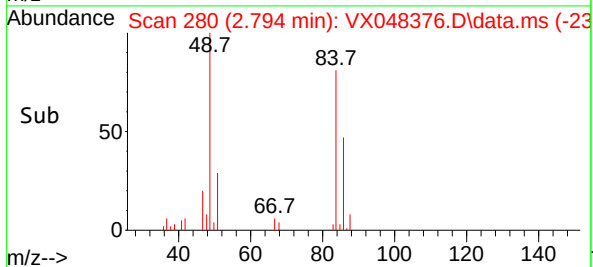
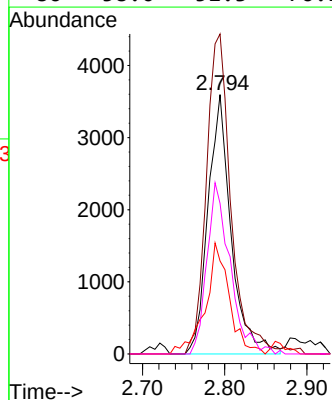
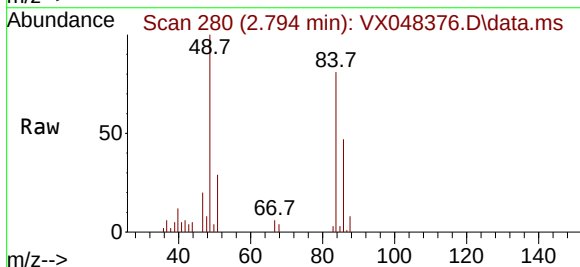
Ion Ratio Lower Upper

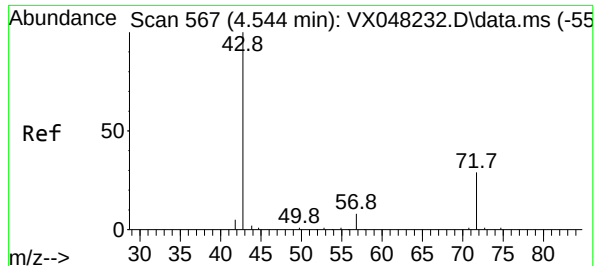
84 100

49 123.4 104.1 156.1

51 33.6 31.3 46.9

86 58.0 51.3 76.9





#25

2-Butanone

Concen: 12.580 ug/l

RT: 4.562 min Scan# 51

Delta R.T. 0.024 min

Lab File: VX048376.D

Acq: 27 Oct 2025 16:45

Instrument :

MSVOA_X

ClientSampleId :

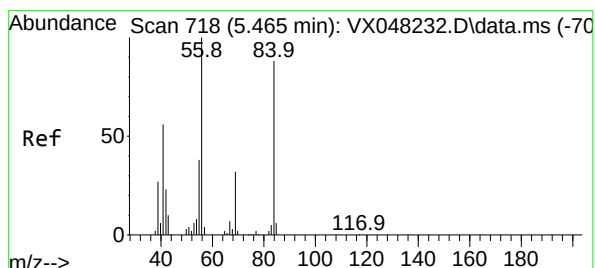
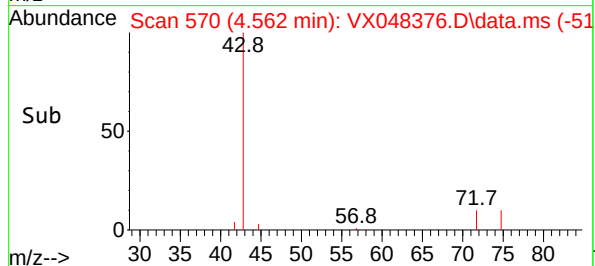
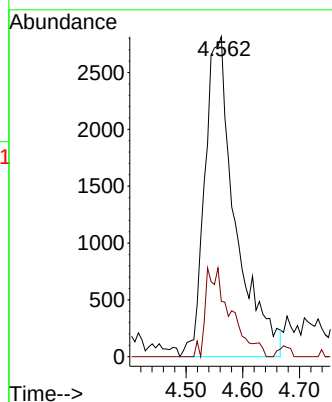
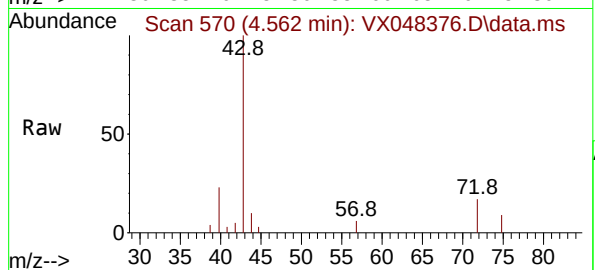
P001-TW1-251023-01

Tgt Ion: 43 Resp: 10549

Ion Ratio Lower Upper

43 100

72 18.6 19.9 29.9#



#31

Cyclohexane

Concen: 2.075 ug/l

RT: 5.458 min Scan# 717

Delta R.T. 0.000 min

Lab File: VX048376.D

Acq: 27 Oct 2025 16:45

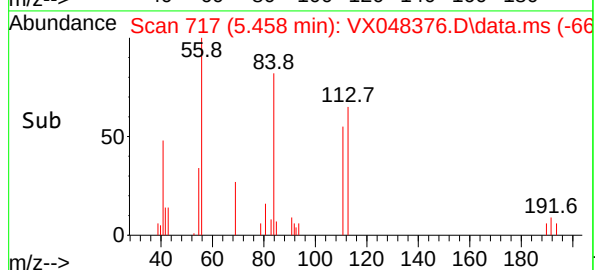
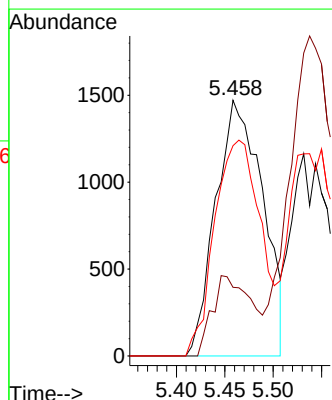
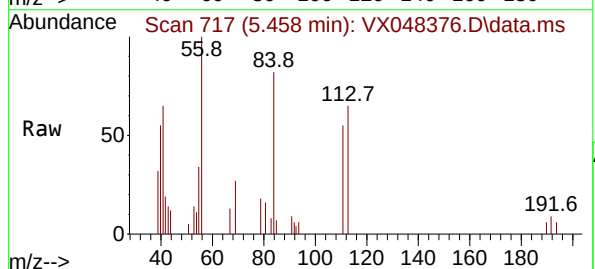
Tgt Ion: 56 Resp: 4974

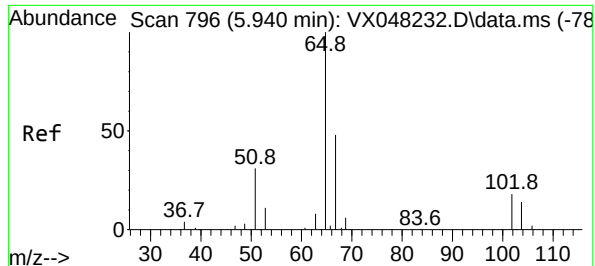
Ion Ratio Lower Upper

56 100

69 26.9 23.0 34.6

84 82.3 64.6 97.0





#33

1,2-Dichloroethane-d4

Concen: 58.672 ug/l

RT: 5.940 min Scan# 796

Delta R.T. 0.000 min

Lab File: VX048376.D

Acq: 27 Oct 2025 16:45

Instrument :

MSVOA_X

ClientSampleId :

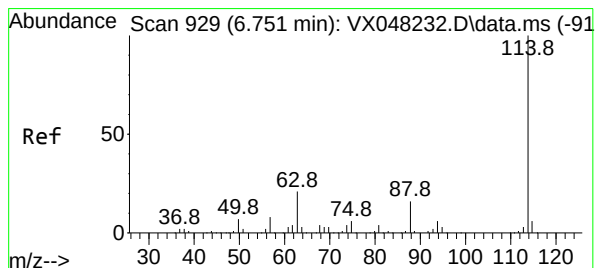
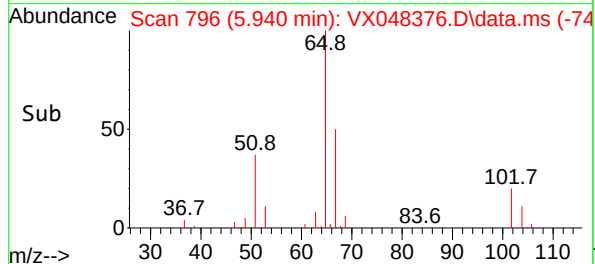
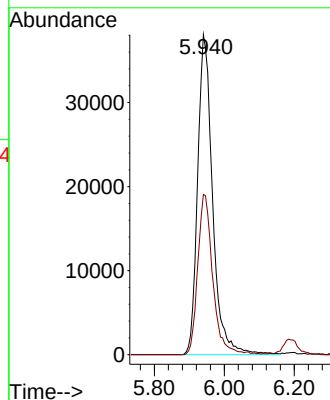
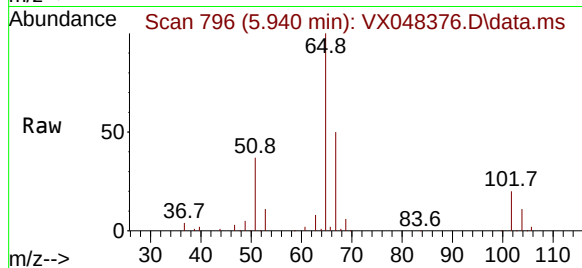
P001-TW1-251023-01

Tgt Ion: 65 Resp: 113306

Ion Ratio Lower Upper

65 100

67 49.8 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX048376.D

Acq: 27 Oct 2025 16:45

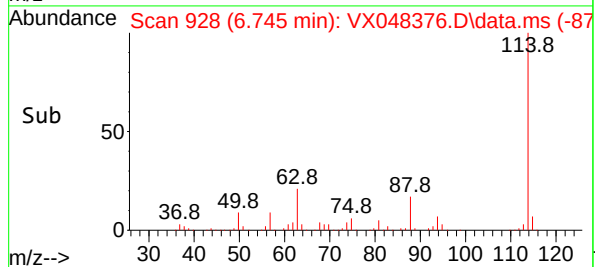
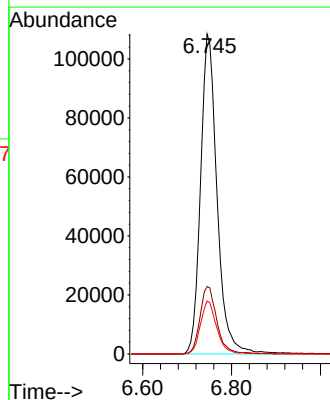
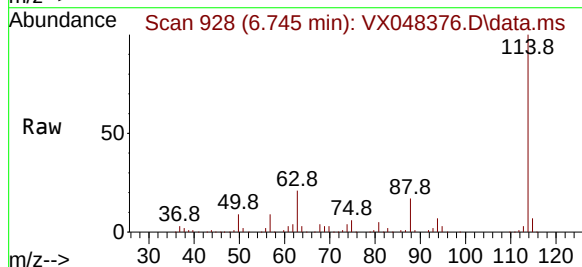
Tgt Ion: 114 Resp: 279749

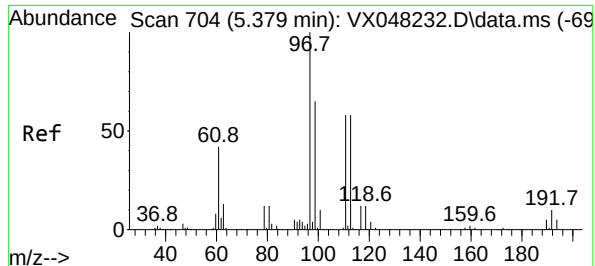
Ion Ratio Lower Upper

114 100

63 21.0 0.0 43.2

88 16.6 0.0 33.6





#35

Dibromofluoromethane

Concen: 41.214 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX048376.D

Acq: 27 Oct 2025 16:45

Instrument :

MSVOA_X

ClientSampleId :

P001-TW1-251023-01

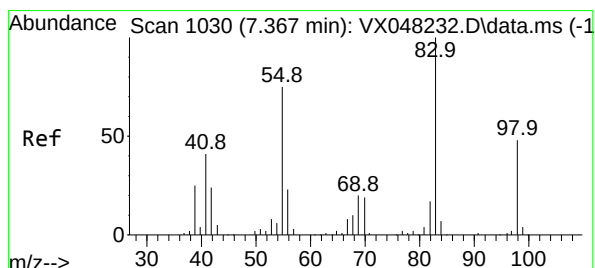
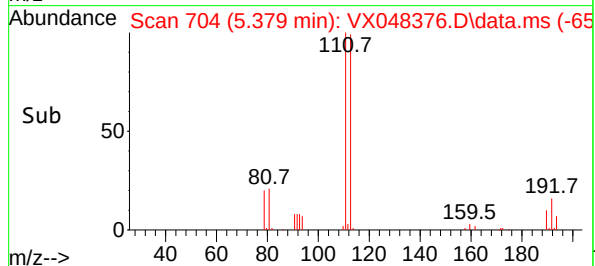
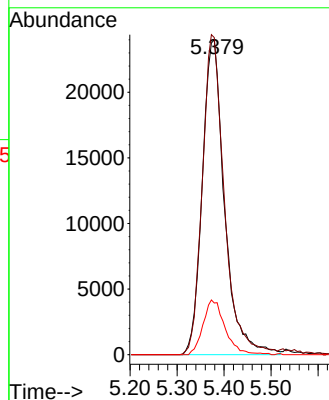
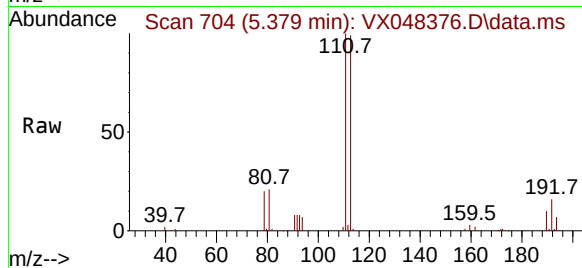
Tgt Ion:113 Resp: 78712

Ion Ratio Lower Upper

113 100

111 100.6 82.2 123.4

192 17.3 15.1 22.7



#39

Methylcyclohexane

Concen: 1.138 ug/l

RT: 7.367 min Scan# 1030

Delta R.T. 0.000 min

Lab File: VX048376.D

Acq: 27 Oct 2025 16:45

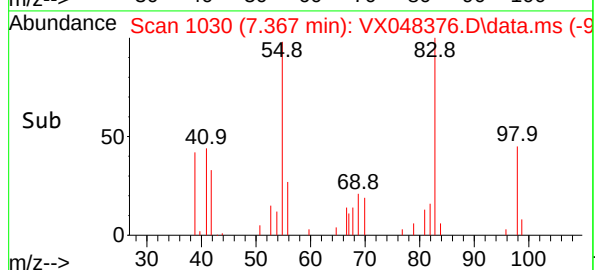
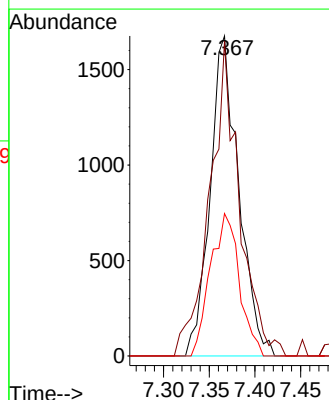
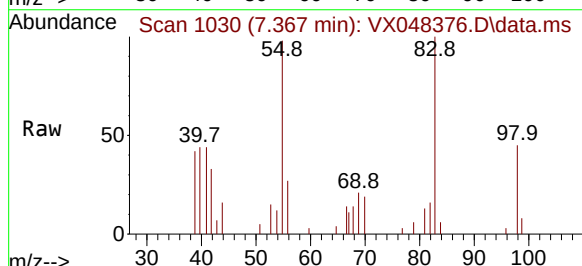
Tgt Ion: 83 Resp: 3648

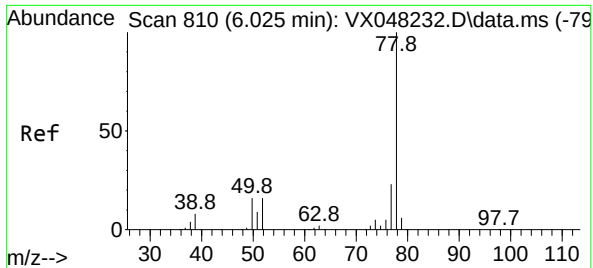
Ion Ratio Lower Upper

83 100

55 94.6 66.2 99.2

98 52.1 38.9 58.3





#40

Benzene

Concen: 6.909 ug/l

RT: 6.025 min Scan# 810

Delta R.T. 0.000 min

Lab File: VX048376.D

Acq: 27 Oct 2025 16:45

Instrument :

MSVOA_X

ClientSampleId :

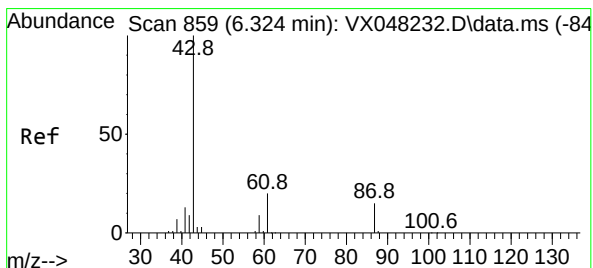
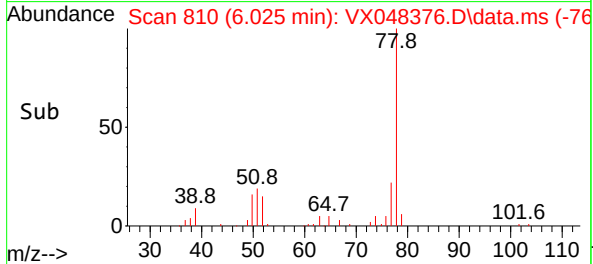
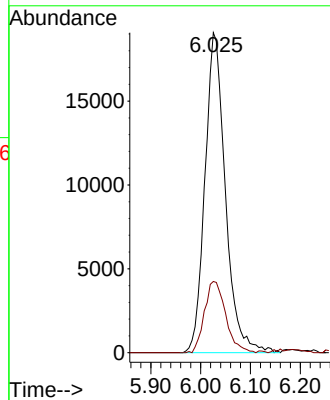
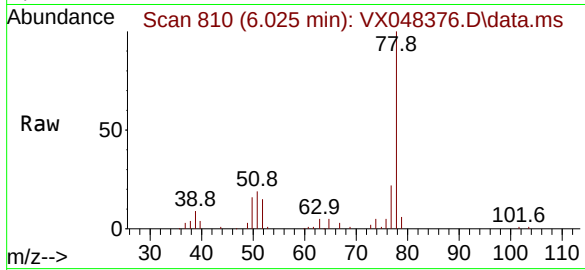
P001-TW1-251023-01

Tgt Ion: 78 Resp: 54453

Ion Ratio Lower Upper

78 100

77 22.2 19.3 28.9



#43

Isopropyl Acetate

Concen: 2.306 ug/l

RT: 6.330 min Scan# 860

Delta R.T. 0.006 min

Lab File: VX048376.D

Acq: 27 Oct 2025 16:45

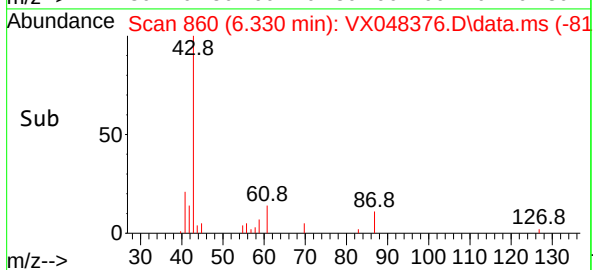
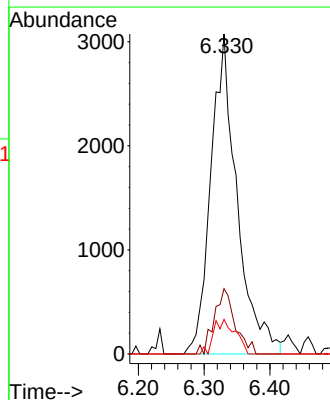
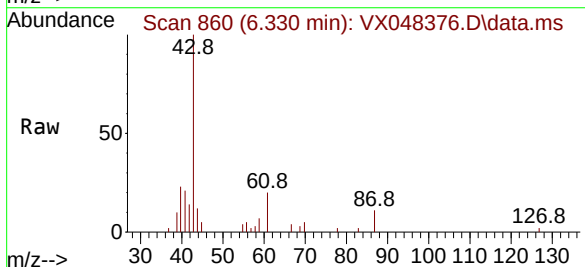
Tgt Ion: 43 Resp: 8523

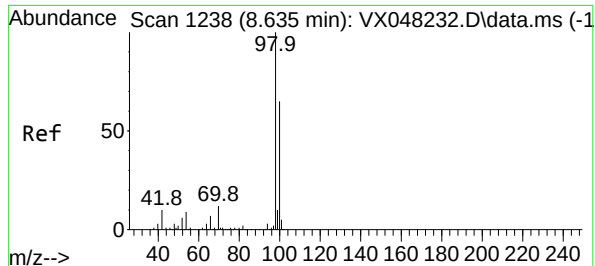
Ion Ratio Lower Upper

43 100

61 16.3 14.9 22.3

87 8.9 9.4 14.2#





#50

Toluene-d8

Concen: 47.582 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VX048376.D

Acq: 27 Oct 2025 16:45

Instrument :

MSVOA_X

ClientSampleId :

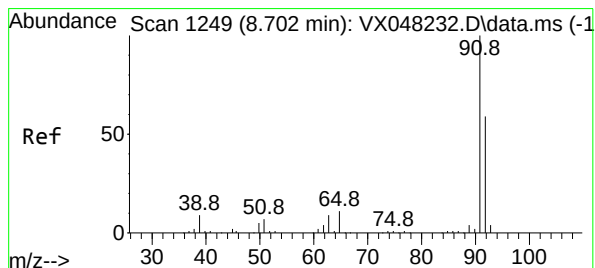
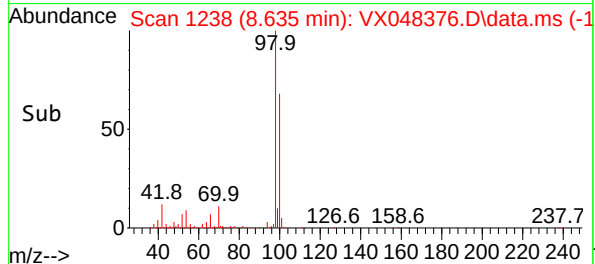
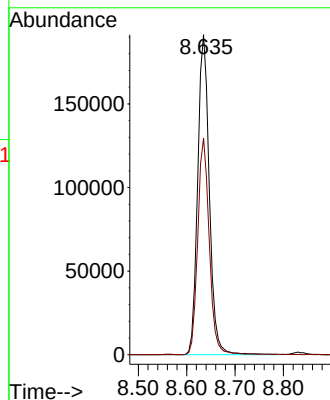
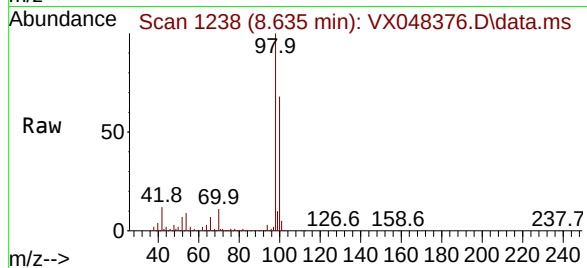
P001-TW1-251023-01

Tgt Ion: 98 Resp: 318521

Ion Ratio Lower Upper

98 100

100 67.2 53.0 79.4



#52

Toluene

Concen: 17.923 ug/l

RT: 8.702 min Scan# 1249

Delta R.T. 0.000 min

Lab File: VX048376.D

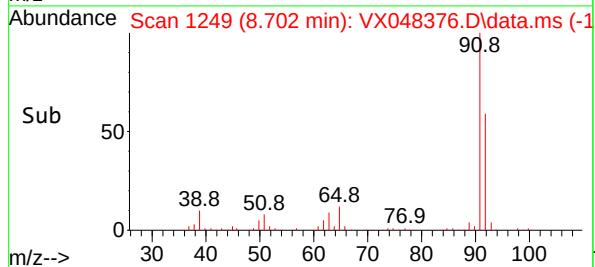
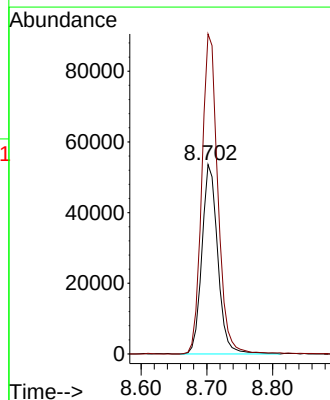
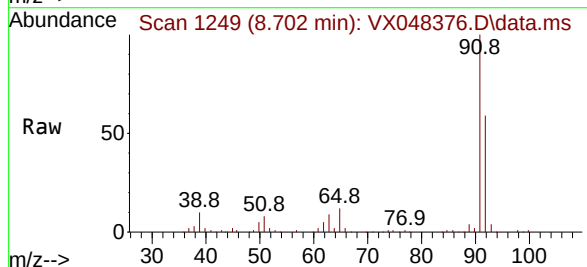
Acq: 27 Oct 2025 16:45

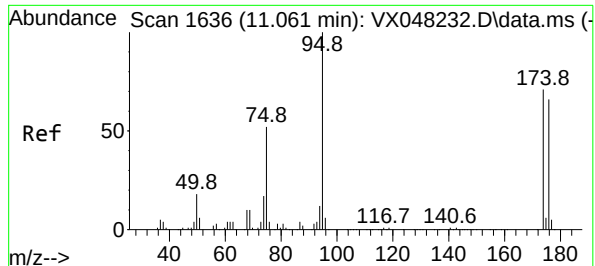
Tgt Ion: 92 Resp: 89735

Ion Ratio Lower Upper

92 100

91 170.7 136.1 204.1

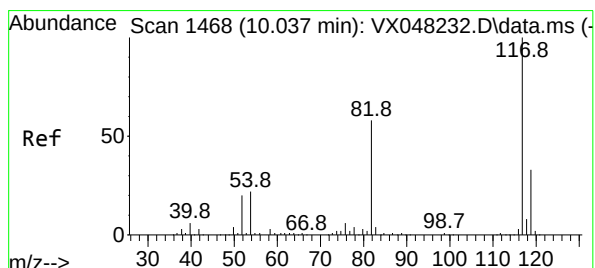
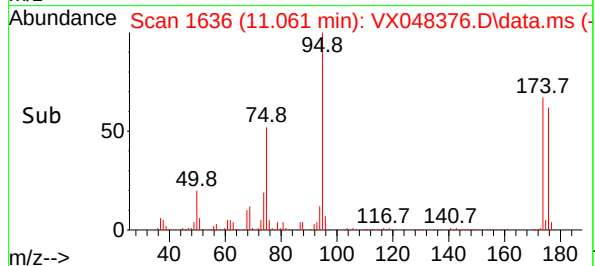
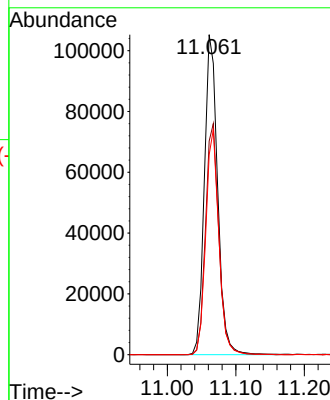
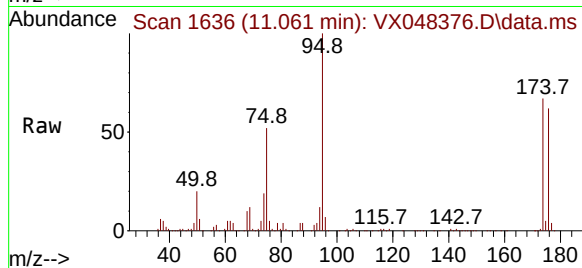




#62
4-Bromofluorobenzene
Concen: 55.762 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048376.D
Acq: 27 Oct 2025 16:45

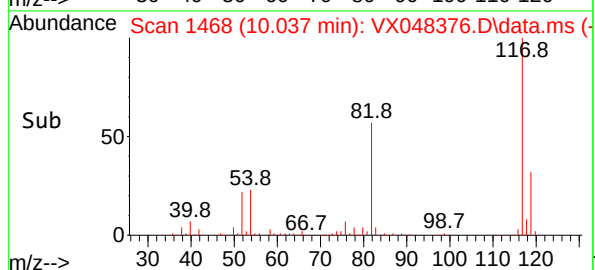
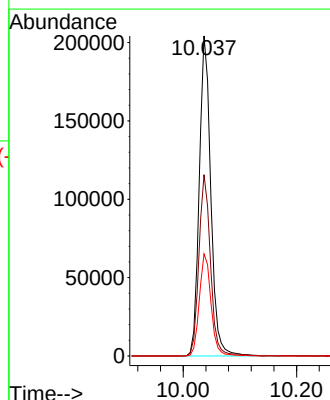
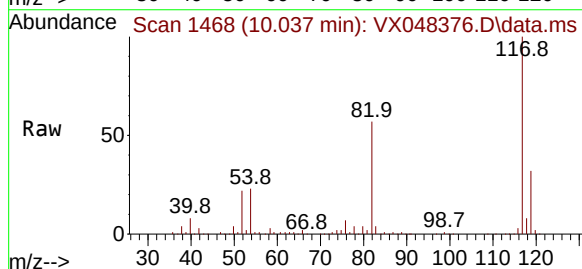
Instrument :
MSVOA_X
ClientSampleId :
P001-TW1-251023-01

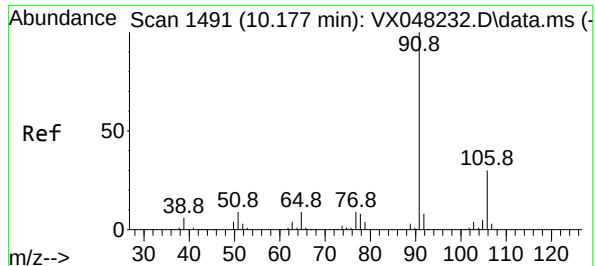
Tgt Ion: 95 Resp: 142005
Ion Ratio Lower Upper
95 100
174 72.4 0.0 147.8
176 69.4 0.0 142.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX048376.D
Acq: 27 Oct 2025 16:45

Tgt Ion: 117 Resp: 288127
Ion Ratio Lower Upper
117 100
82 56.6 46.5 69.7
119 31.9 25.9 38.9





#67

Ethyl Benzene

Concen: 3.398 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. 0.000 min

Lab File: VX048376.D

Acq: 27 Oct 2025 16:45

Instrument :

MSVOA_X

ClientSampleId :

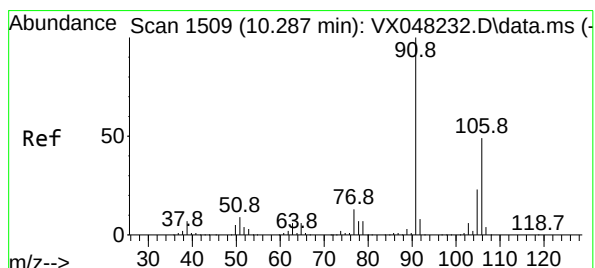
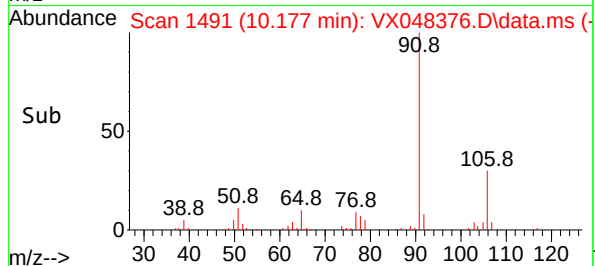
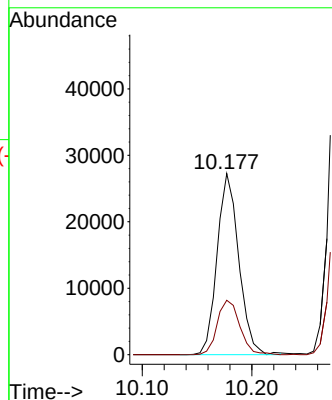
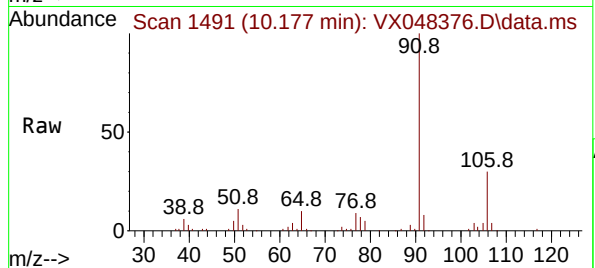
P001-TW1-251023-01

Tgt Ion: 91 Resp: 37498

Ion Ratio Lower Upper

91 100

106 30.0 23.8 35.6



#68

m/p-Xylenes

Concen: 13.826 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VX048376.D

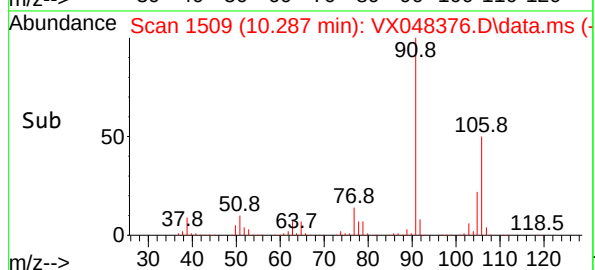
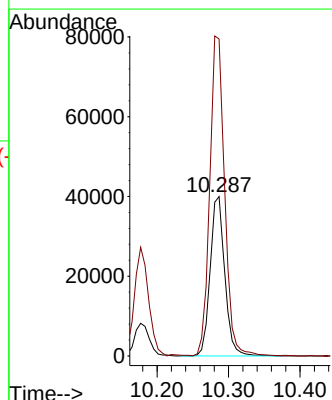
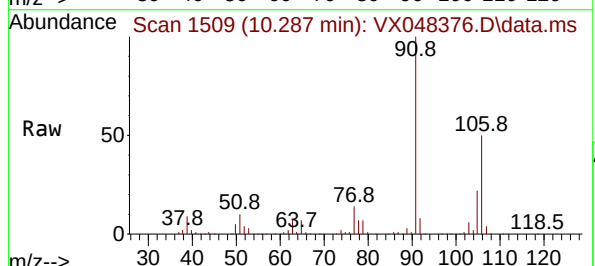
Acq: 27 Oct 2025 16:45

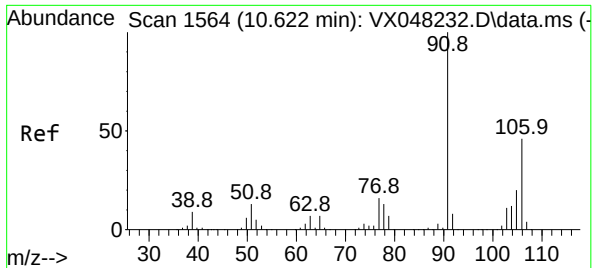
Tgt Ion: 106 Resp: 56688

Ion Ratio Lower Upper

106 100

91 204.2 167.9 251.9





#69

o-Xylene

Concen: 8.476 ug/l

RT: 10.622 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX048376.D

Acq: 27 Oct 2025 16:45

Instrument :

MSVOA_X

ClientSampleId :

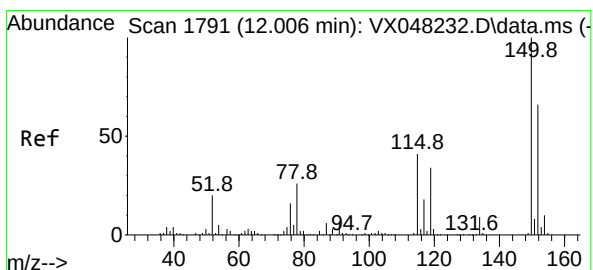
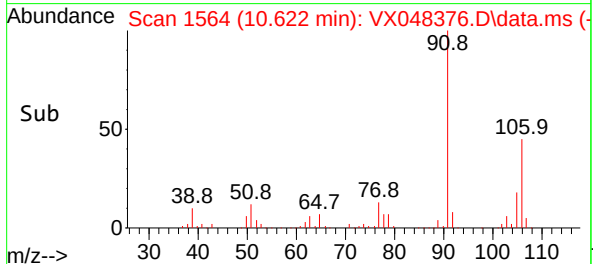
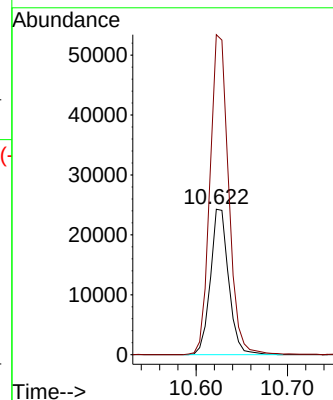
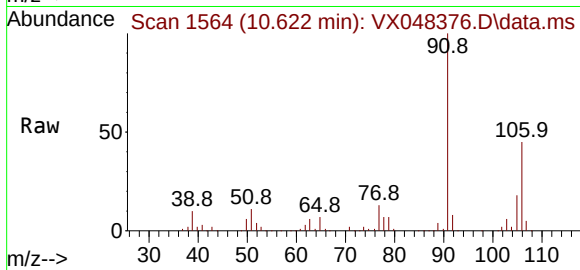
P001-TW1-251023-01

Tgt Ion:106 Resp: 33552

Ion Ratio Lower Upper

106 100

91 225.8 111.3 333.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX048376.D

Acq: 27 Oct 2025 16:45

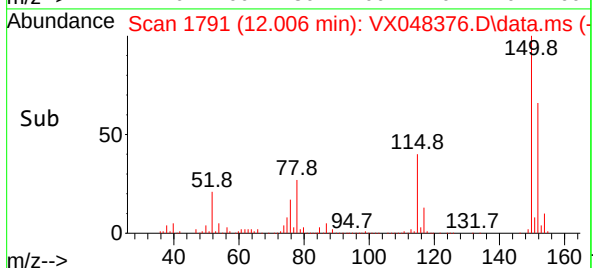
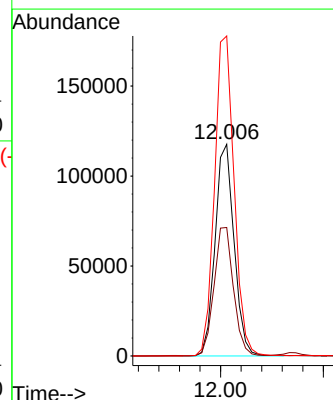
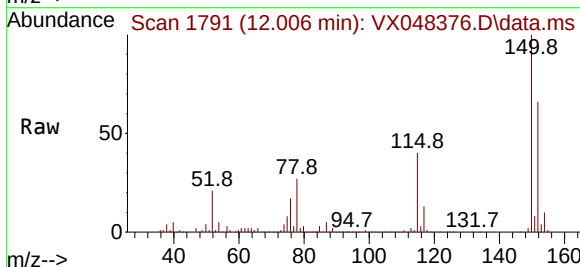
Tgt Ion:152 Resp: 151406

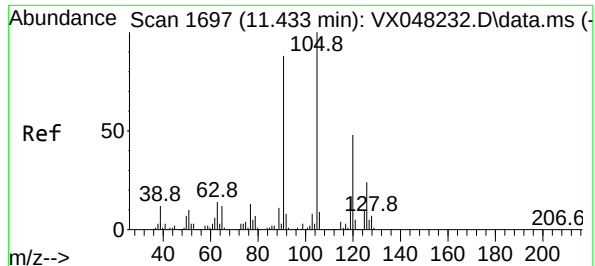
Ion Ratio Lower Upper

152 100

115 61.7 43.1 129.4

150 155.4 0.0 353.0





#80

1,3,5-Trimethylbenzene

Concen: 1.990 ug/l

RT: 11.433 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX048376.D

Acq: 27 Oct 2025 16:45

Instrument :

MSVOA_X

ClientSampleId :

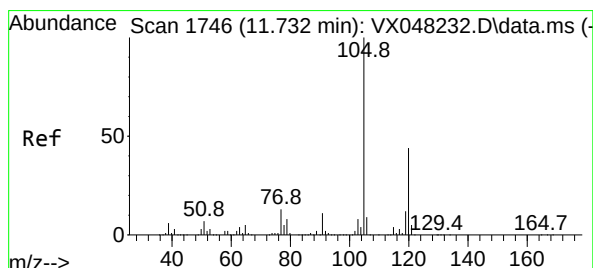
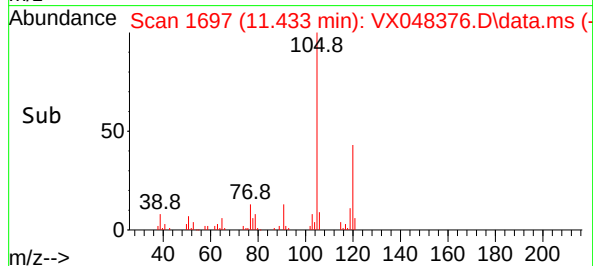
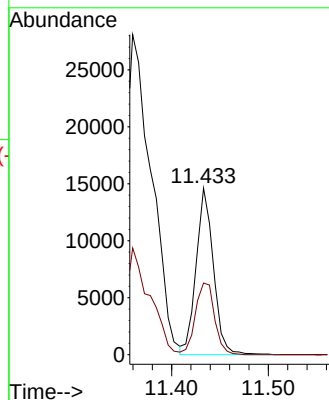
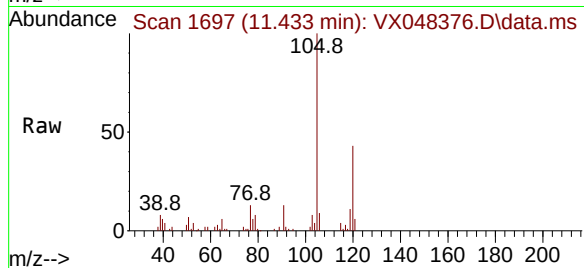
P001-TW1-251023-01

Tgt Ion:105 Resp: 18215

Ion Ratio Lower Upper

105 100

120 47.6 24.0 72.0



#84

1,2,4-Trimethylbenzene

Concen: 8.183 ug/l

RT: 11.732 min Scan# 1746

Delta R.T. 0.000 min

Lab File: VX048376.D

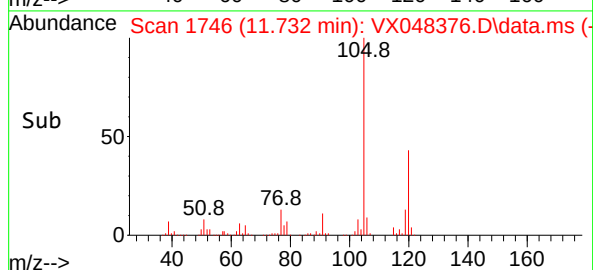
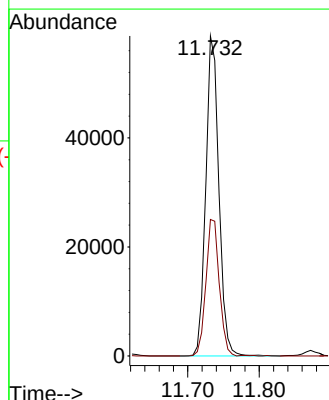
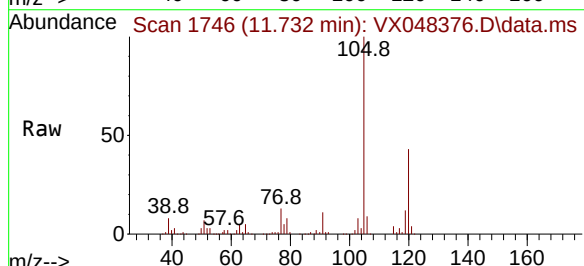
Acq: 27 Oct 2025 16:45

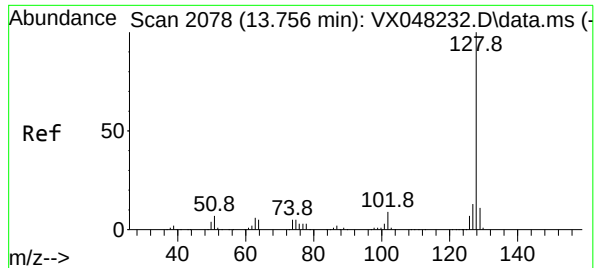
Tgt Ion:105 Resp: 74741

Ion Ratio Lower Upper

105 100

120 43.7 22.1 66.5





#95

Naphthalene

Concen: 98.118 ug/l

RT: 13.756 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX048376.D

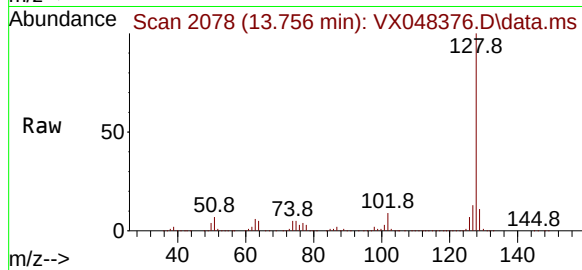
Acq: 27 Oct 2025 16:45

Instrument :

MSVOA_X

ClientSampleId :

P001-TW1-251023-01



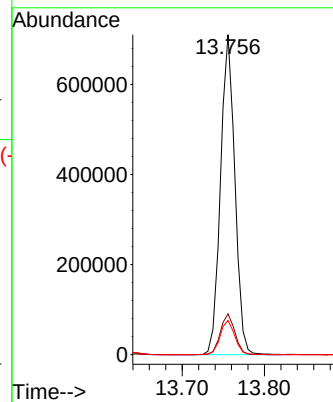
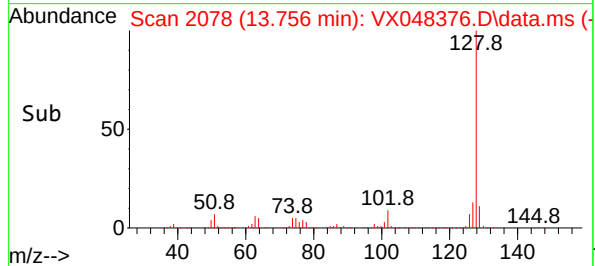
Tgt Ion:128 Resp: 862778

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

129 11.0 8.6 12.8



Report of Analysis

Client: Weston Solutions, Inc.
 Project: RFP 905
 Client Sample ID: P001-TW2-251023-01
 Lab Sample ID: Q3447-04
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level : LOW
 Final Vol: 5000 uL

Date Collected: 10/23/25
 Date Received: 10/23/25
 SDG No.: Q3447
 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	UQ	1	0.26	5.00	ug/L	10/27/25 17:06	VX102725
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	5.00	ug/L	10/27/25 17:06	VX102725
78-93-3	2-Butanone	0.98	U	1	0.98	25.0	ug/L	10/27/25 17:06	VX102725
56-23-5	Carbon Tetrachloride	0.25	U	1	0.25	5.00	ug/L	10/27/25 17:06	VX102725
67-66-3	Chloroform	0.25	U	1	0.25	5.00	ug/L	10/27/25 17:06	VX102725
71-43-2	Benzene	0.15	U	1	0.15	5.00	ug/L	10/27/25 17:06	VX102725
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	5.00	ug/L	10/27/25 17:06	VX102725
79-01-6	Trichloroethene	0.090	U	1	0.090	5.00	ug/L	10/27/25 17:06	VX102725
127-18-4	Tetrachloroethene	0.23	U	1	0.23	5.00	ug/L	10/27/25 17:06	VX102725
108-90-7	Chlorobenzene	0.12	U	1	0.12	5.00	ug/L	10/27/25 17:06	VX102725
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	53.6			74 - 125	107%	SPK: 50		
1868-53-7	Dibromofluoromethane	40.5			75 - 124	81%	SPK: 50		
2037-26-5	Toluene-d8	45.9			86 - 113	92%	SPK: 50		
460-00-4	4-Bromofluorobenzene	53.4			77 - 121	107%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	101000							
540-36-3	1,4-Difluorobenzene	206000							
3114-55-4	Chlorobenzene-d5	213000							
3855-82-1	1,4-Dichlorobenzene-d4	105000							

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\VX102725\
 Data File : VX048377.D
 Acq On : 27 Oct 2025 17:06
 Operator : JC/MD
 Sample : Q3447-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 P001-TW2-251023-01

Quant Time: Oct 28 01:57:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

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

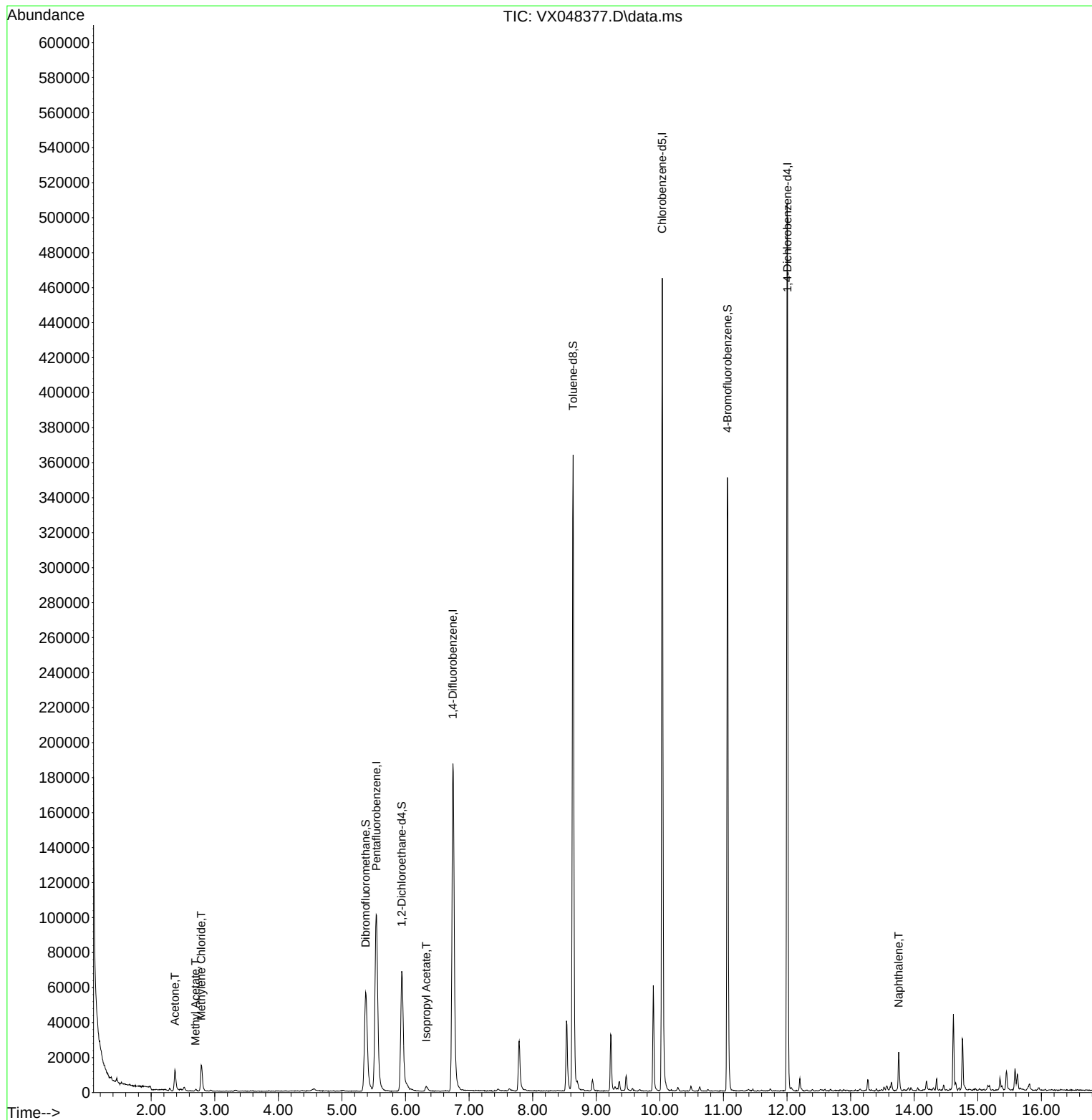
Internal Standards						
1) Pentafluorobenzene	5.544	168	101333	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	205553	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	212555	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	104644	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	76176	53.616	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.240%			
35) Dibromofluoromethane	5.373	113	56896	40.544	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 81.080%			
50) Toluene-d8	8.635	98	225582	45.862	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 91.720%#			
62) 4-Bromofluorobenzene	11.061	95	99842	53.357	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.720%			
Target Compounds						
					Qvalue	
16) Acetone	2.374	43	16344	33.533	ug/l	98
18) Methyl Acetate	2.697	43	1029	1.011	ug/l #	84
20) Methylene Chloride	2.788	84	7594	6.394	ug/l	96
43) Isopropyl Acetate	6.324	43	4337	1.597	ug/l #	89
95) Naphthalene	13.756	128	13714	2.257	ug/l	99

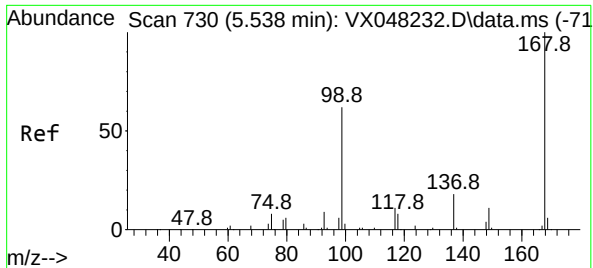
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
Data File : VX048377.D
Acq On : 27 Oct 2025 17:06
Operator : JC/MD
Sample : Q3447-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
P001-TW2-251023-01

Quant Time: Oct 28 01:57:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

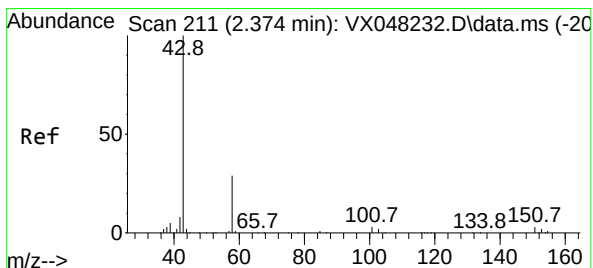
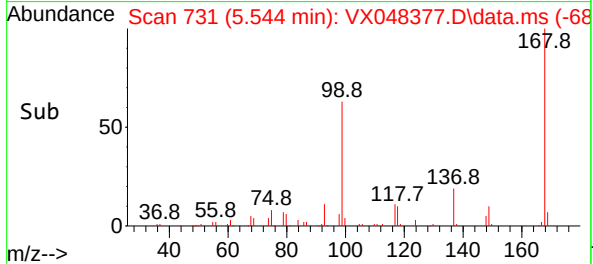
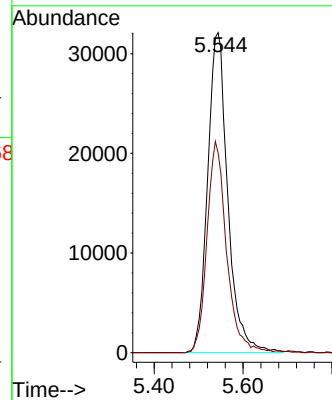
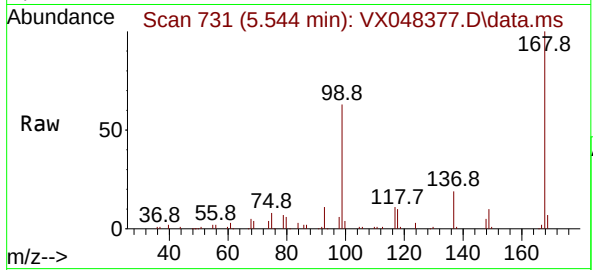




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.000 min
Lab File: VX048377.D
Acq: 27 Oct 2025 17:06

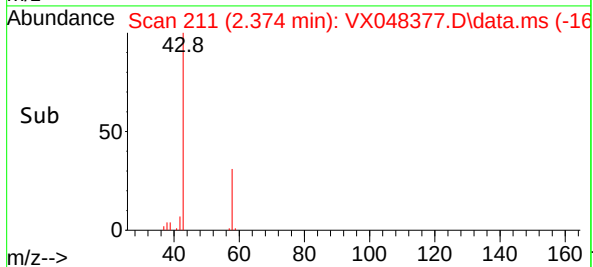
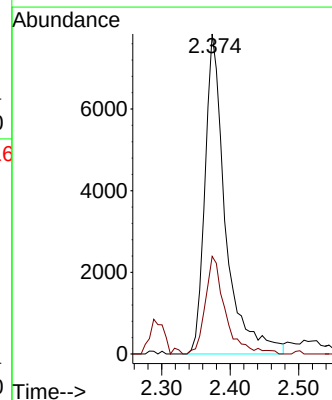
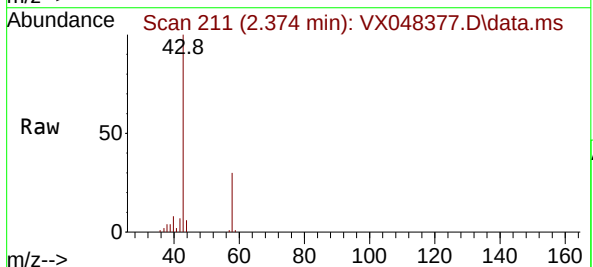
Instrument :
MSVOA_X
ClientSampleId :
P001-TW2-251023-01

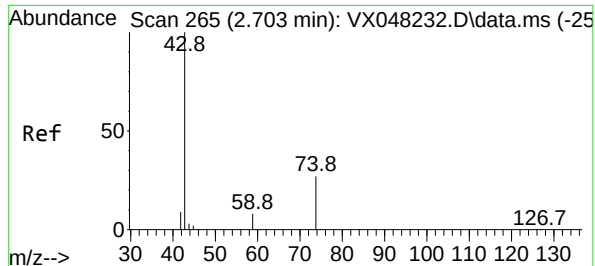
Tgt Ion:168 Resp: 101333
Ion Ratio Lower Upper
168 100
99 62.5 46.4 69.6



#16
Acetone
Concen: 33.533 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX048377.D
Acq: 27 Oct 2025 17:06

Tgt Ion: 43 Resp: 16344
Ion Ratio Lower Upper
43 100
58 30.5 23.4 35.2





#18

Methyl Acetate

Concen: 1.011 ug/l

RT: 2.697 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX048377.D

Acq: 27 Oct 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

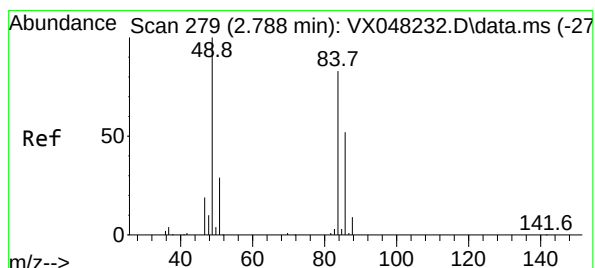
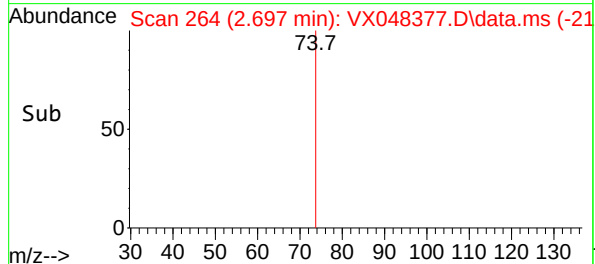
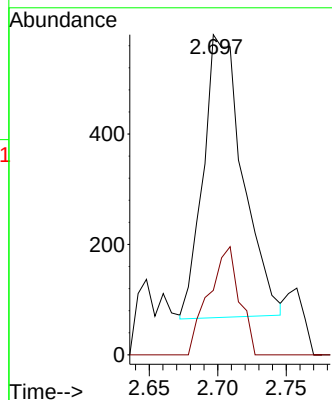
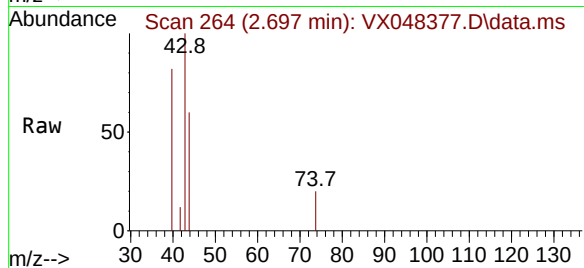
P001-TW2-251023-01

Tgt Ion: 43 Resp: 1029

Ion Ratio Lower Upper

43 100

74 29.6 17.5 26.3#



#20

Methylene Chloride

Concen: 6.394 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX048377.D

Acq: 27 Oct 2025 17:06

Tgt Ion: 84 Resp: 7594

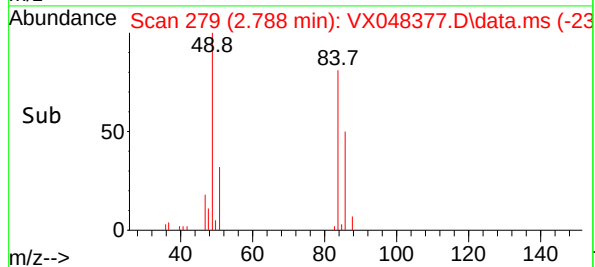
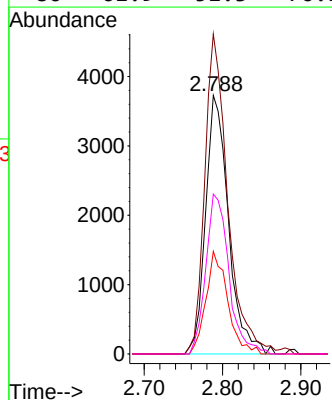
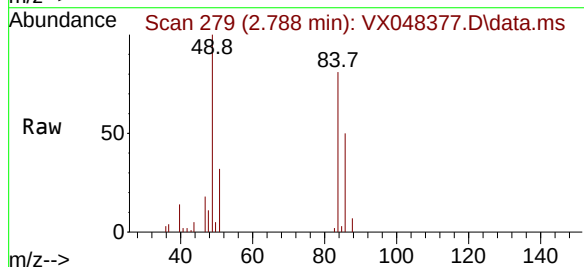
Ion Ratio Lower Upper

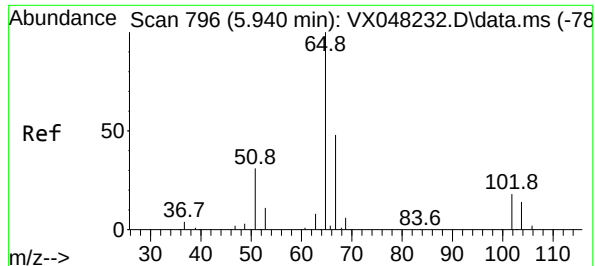
84 100

49 123.8 104.1 156.1

51 39.7 31.3 46.9

86 61.9 51.3 76.9





#33

1,2-Dichloroethane-d4

Concen: 53.616 ug/l

RT: 5.940 min Scan# 796

Delta R.T. 0.000 min

Lab File: VX048377.D

Acq: 27 Oct 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

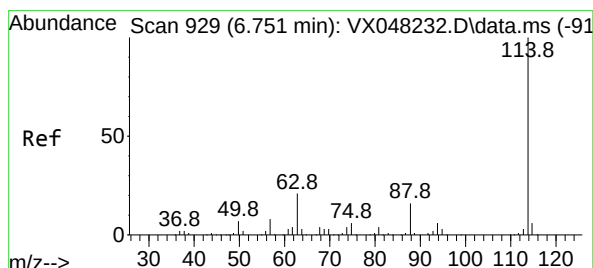
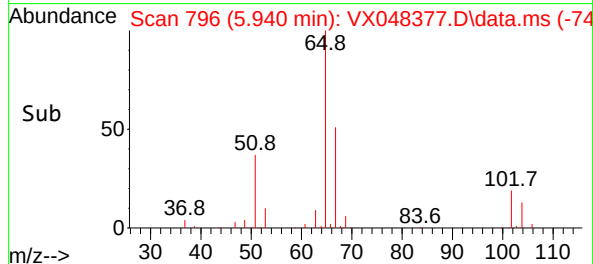
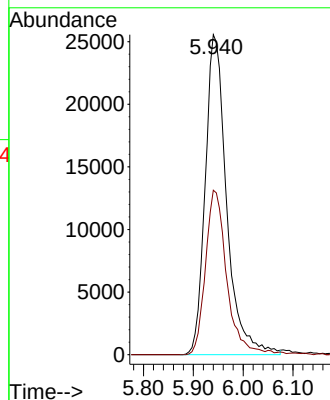
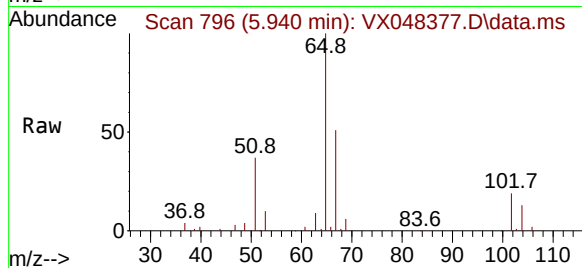
P001-TW2-251023-01

Tgt Ion: 65 Resp: 76176

Ion Ratio Lower Upper

65 100

67 50.5 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX048377.D

Acq: 27 Oct 2025 17:06

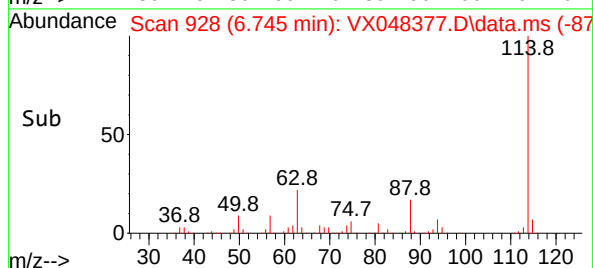
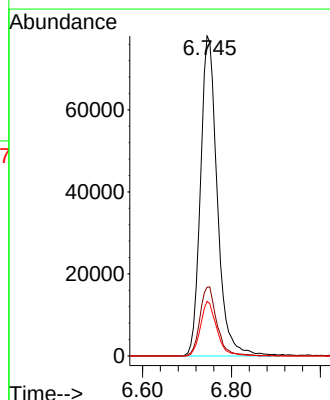
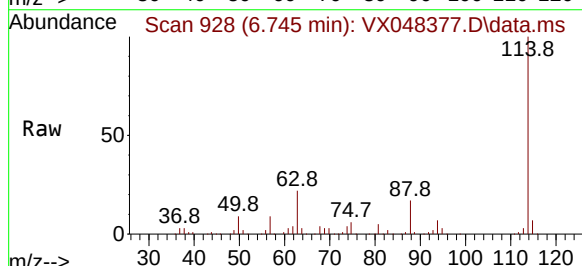
Tgt Ion: 114 Resp: 205553

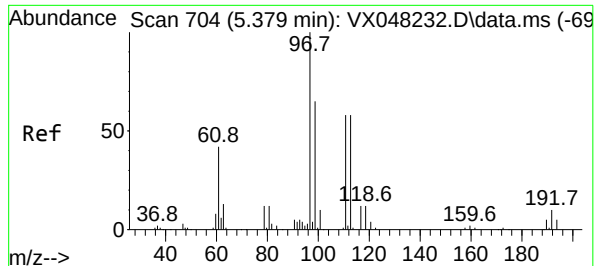
Ion Ratio Lower Upper

114 100

63 21.5 0.0 43.2

88 17.1 0.0 33.6





#35

Dibromofluoromethane

Concen: 40.544 ug/l

RT: 5.373 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX048377.D

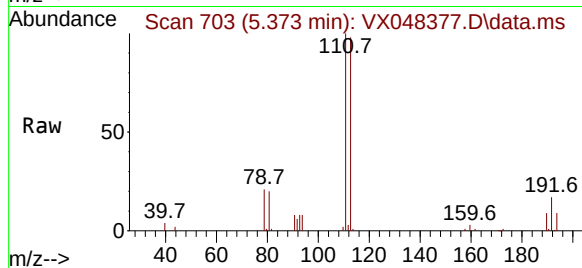
Acq: 27 Oct 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

P001-TW2-251023-01



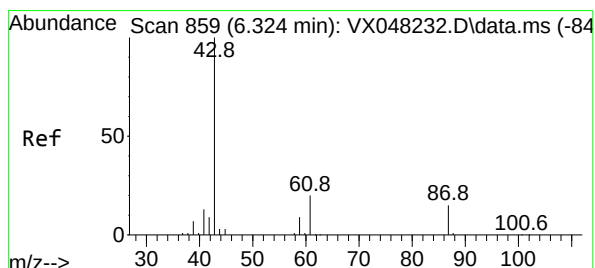
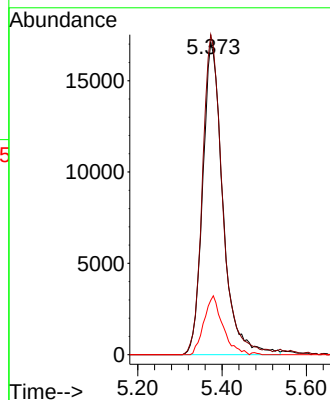
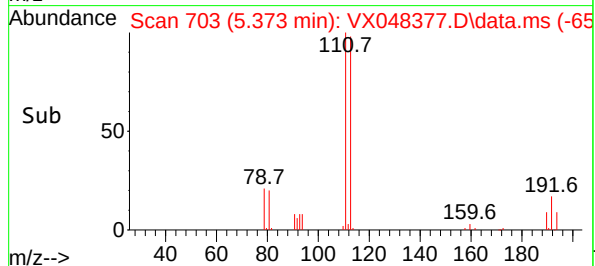
Tgt Ion:113 Resp: 56896

Ion Ratio Lower Upper

113 100

111 101.1 82.2 123.4

192 17.6 15.1 22.7



#43

Isopropyl Acetate

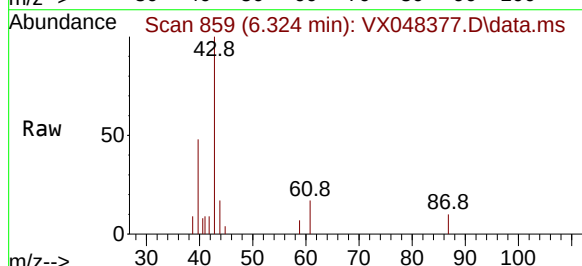
Concen: 1.597 ug/l

RT: 6.324 min Scan# 859

Delta R.T. 0.000 min

Lab File: VX048377.D

Acq: 27 Oct 2025 17:06



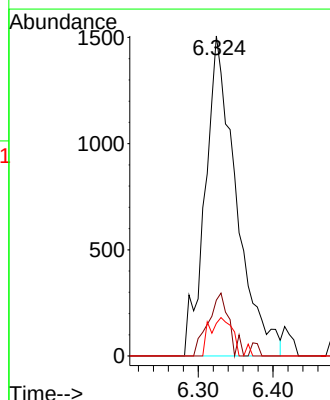
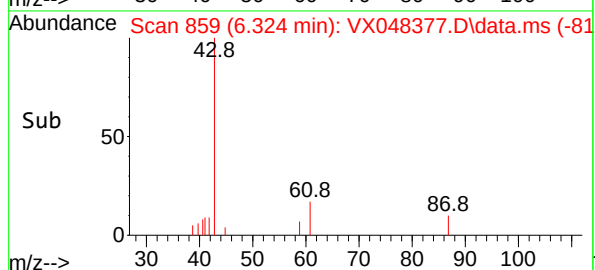
Tgt Ion: 43 Resp: 4337

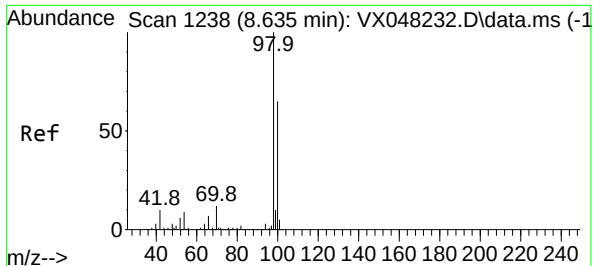
Ion Ratio Lower Upper

43 100

61 13.2 14.9 22.3#

87 8.6 9.4 14.2#





#50

Toluene-d8

Concen: 45.862 ug/l

RT: 8.635 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX048377.D

Acq: 27 Oct 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

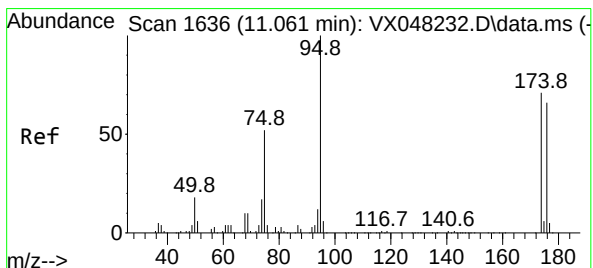
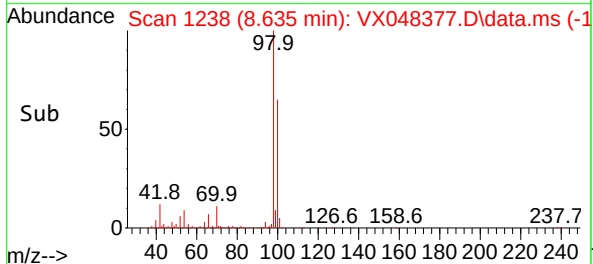
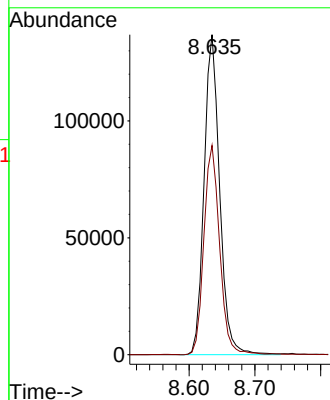
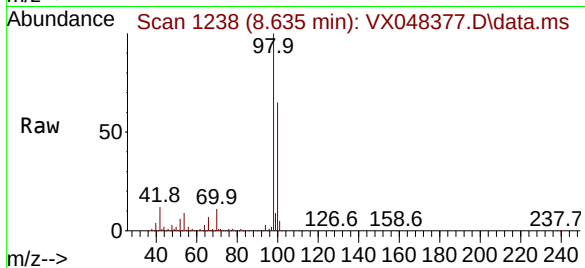
P001-TW2-251023-01

Tgt Ion: 98 Resp: 225582

Ion Ratio Lower Upper

98 100

100 66.5 53.0 79.4



#62

4-Bromofluorobenzene

Concen: 53.357 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. 0.000 min

Lab File: VX048377.D

Acq: 27 Oct 2025 17:06

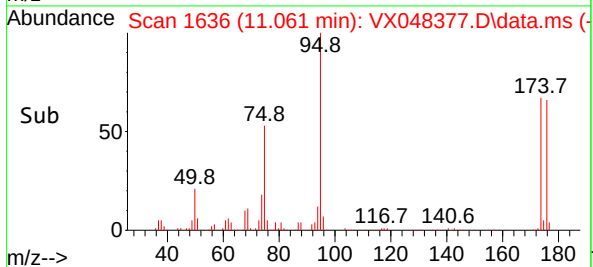
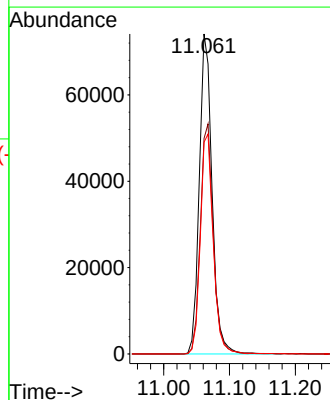
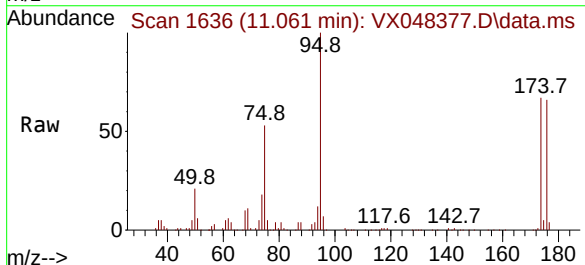
Tgt Ion: 95 Resp: 99842

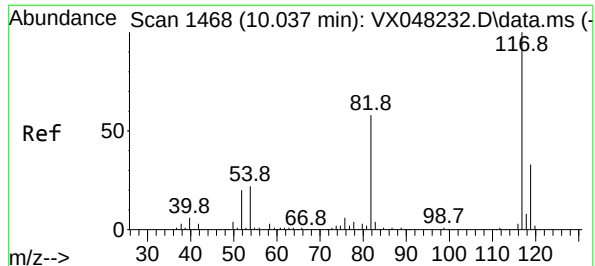
Ion Ratio Lower Upper

95 100

174 73.0 0.0 147.8

176 69.2 0.0 142.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. 0.000 min

Lab File: VX048377.D

Acq: 27 Oct 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

P001-TW2-251023-01

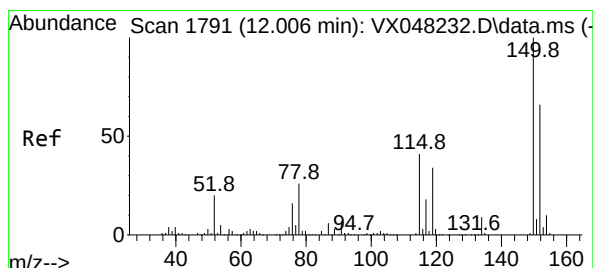
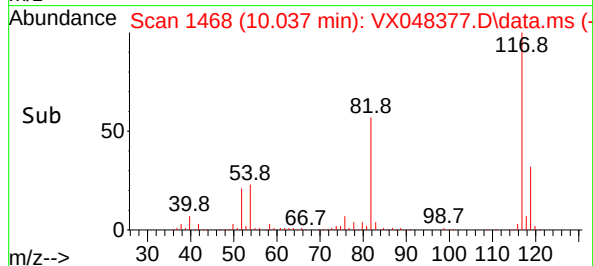
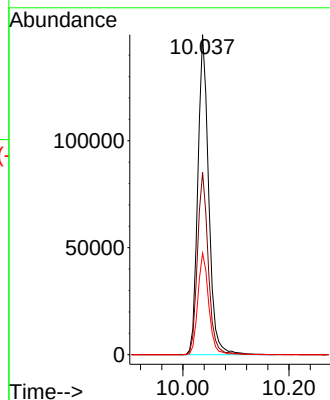
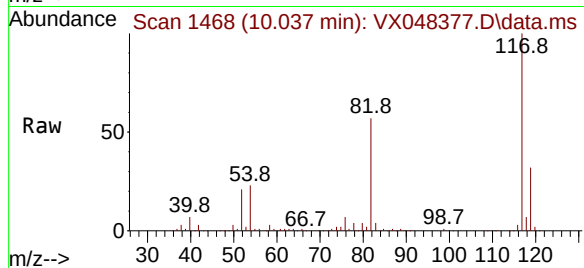
Tgt Ion:117 Resp: 212555

Ion Ratio Lower Upper

117 100

82 57.0 46.5 69.7

119 31.7 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX048377.D

Acq: 27 Oct 2025 17:06

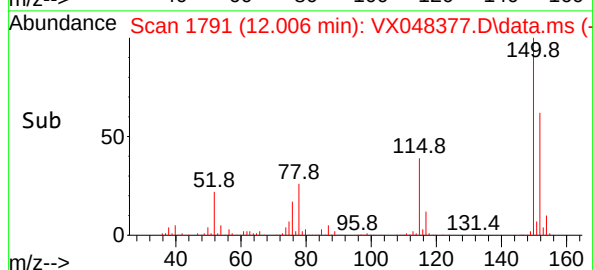
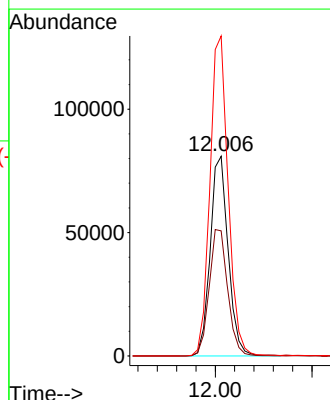
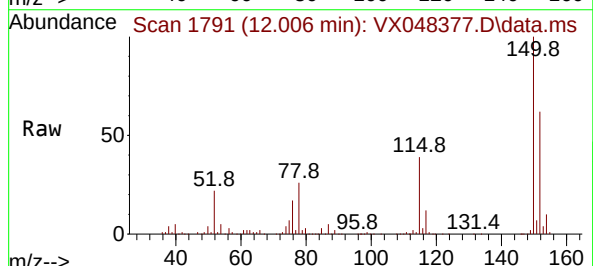
Tgt Ion:152 Resp: 104644

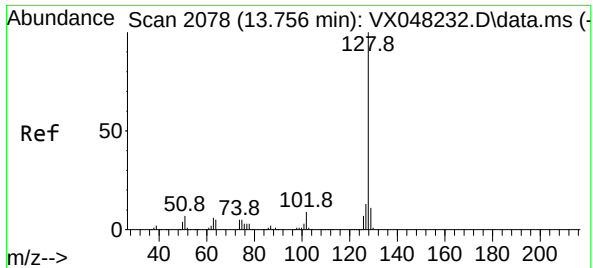
Ion Ratio Lower Upper

152 100

115 65.1 43.1 129.4

150 162.7 0.0 353.0





#95

Naphthalene

Concen: 2.257 ug/l

RT: 13.756 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX048377.D

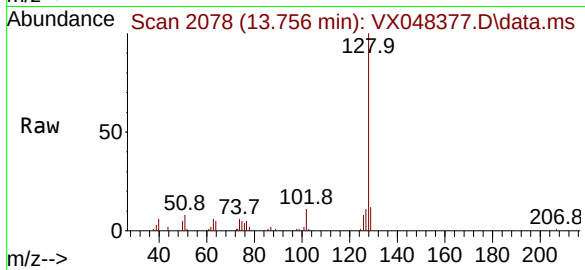
Acq: 27 Oct 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

P001-TW2-251023-01



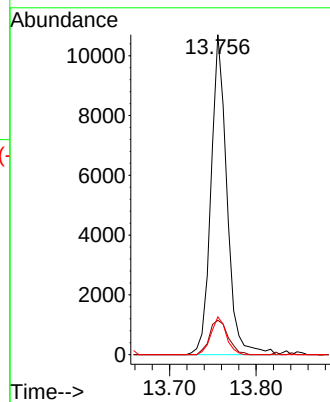
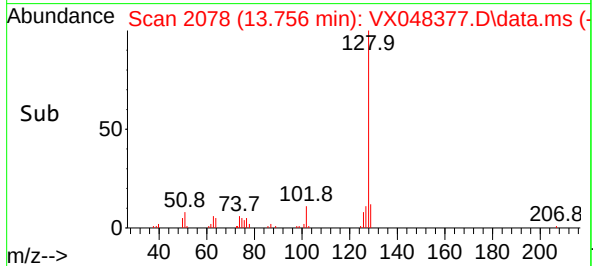
Tgt Ion:128 Resp: 13714

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.4

129 11.3 8.6 12.8



Report of Analysis

Client: Weston Solutions, Inc.
 Project: RFP 905
 Client Sample ID: P001-TW3-251023-01
 Lab Sample ID: Q3447-06
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected: 10/23/25
 Date Received: 10/23/25
 SDG No.: Q3447
 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	UQ	1	0.26	5.00	ug/L	10/27/25 17:26	VX102725
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	5.00	ug/L	10/27/25 17:26	VX102725
78-93-3	2-Butanone	0.98	U	1	0.98	25.0	ug/L	10/27/25 17:26	VX102725
56-23-5	Carbon Tetrachloride	0.25	U	1	0.25	5.00	ug/L	10/27/25 17:26	VX102725
67-66-3	Chloroform	0.25	U	1	0.25	5.00	ug/L	10/27/25 17:26	VX102725
71-43-2	Benzene	0.15	U	1	0.15	5.00	ug/L	10/27/25 17:26	VX102725
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	5.00	ug/L	10/27/25 17:26	VX102725
79-01-6	Trichloroethene	0.090	U	1	0.090	5.00	ug/L	10/27/25 17:26	VX102725
127-18-4	Tetrachloroethene	0.23	U	1	0.23	5.00	ug/L	10/27/25 17:26	VX102725
108-90-7	Chlorobenzene	0.12	U	1	0.12	5.00	ug/L	10/27/25 17:26	VX102725
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	53.7			74 - 125	107%	SPK: 50		
1868-53-7	Dibromofluoromethane	39.0			75 - 124	78%	SPK: 50		
2037-26-5	Toluene-d8	46.4			86 - 113	93%	SPK: 50		
460-00-4	4-Bromofluorobenzene	53.7			77 - 121	107%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	104000							
540-36-3	1,4-Difluorobenzene	208000							
3114-55-4	Chlorobenzene-d5	217000							
3855-82-1	1,4-Dichlorobenzene-d4	111000							

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\VX102725\
Data File : VX048378.D
Acq On : 27 Oct 2025 17:26
Operator : JC/MD
Sample : Q3447-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
P001-TW3-251023-01

Quant Time: Oct 28 01:57:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

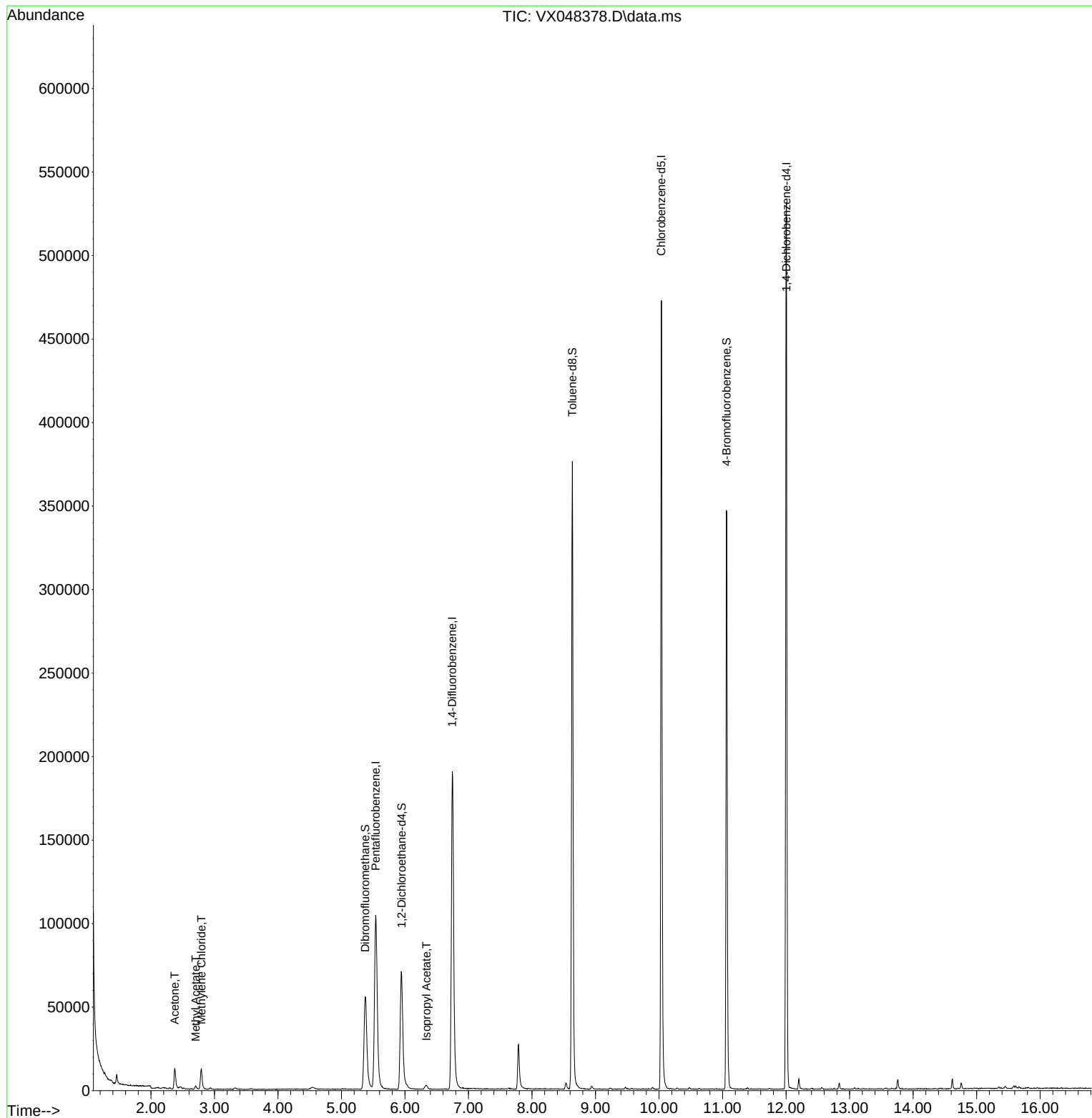
Internal Standards						
1) Pentafluorobenzene	5.538	168	104175	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	207774	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	217355	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	111222	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	78485	53.734	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	107.460%
35) Dibromofluoromethane	5.373	113	55337	39.012	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	78.020%
50) Toluene-d8	8.635	98	230634	46.388	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	92.780%
62) 4-Bromofluorobenzene	11.061	95	101648	53.741	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	107.480%
Target Compounds						
						Qvalue
16) Acetone	2.374	43	16829	33.586	ug/l	98
18) Methyl Acetate	2.703	43	3172	3.031	ug/l	96
20) Methylene Chloride	2.794	84	6013	4.925	ug/l	96
43) Isopropyl Acetate	6.336	43	4091	1.490	ug/l #	93

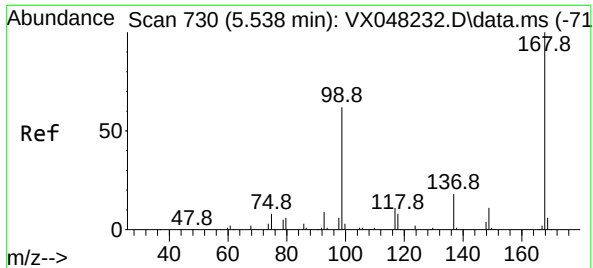
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
Data File : VX048378.D
Acq On : 27 Oct 2025 17:26
Operator : JC/MD
Sample : Q3447-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
P001-TW3-251023-01

Quant Time: Oct 28 01:57:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.538 min Scan# 71

Delta R.T. -0.006 min

Lab File: VX048378.D

Acq: 27 Oct 2025 17:26

Instrument :

MSVOA_X

ClientSampleId :

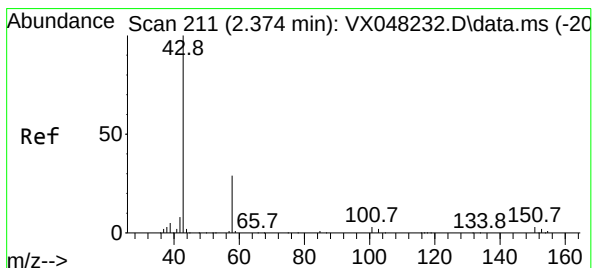
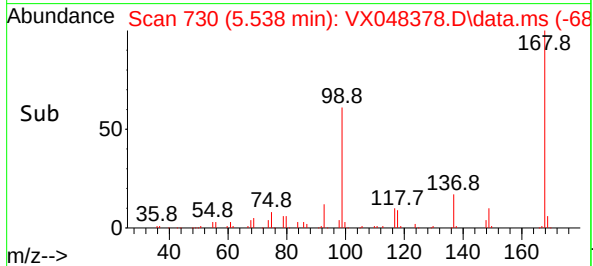
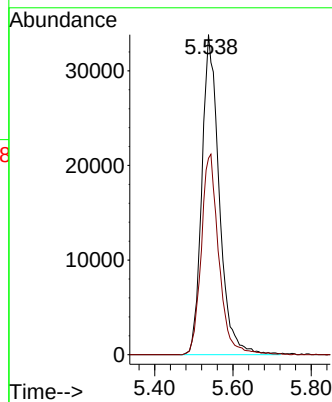
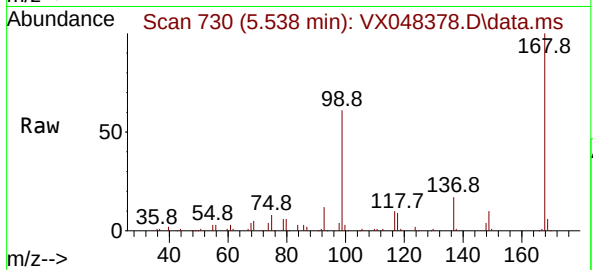
P001-TW3-251023-01

Tgt Ion:168 Resp: 104175

Ion Ratio Lower Upper

168 100

99 61.4 46.4 69.6



#16

Acetone

Concen: 33.586 ug/l

RT: 2.374 min Scan# 211

Delta R.T. -0.000 min

Lab File: VX048378.D

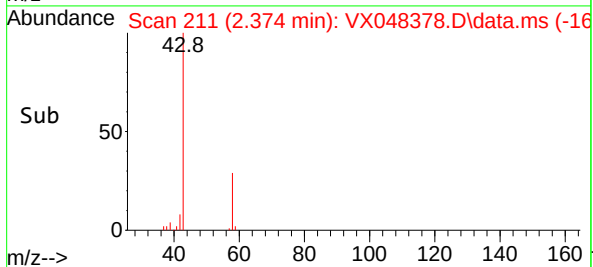
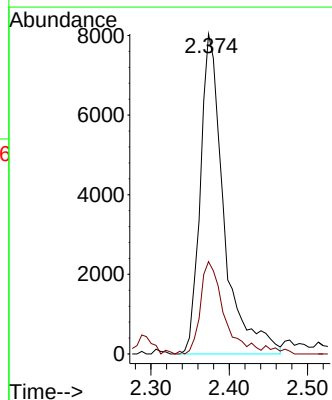
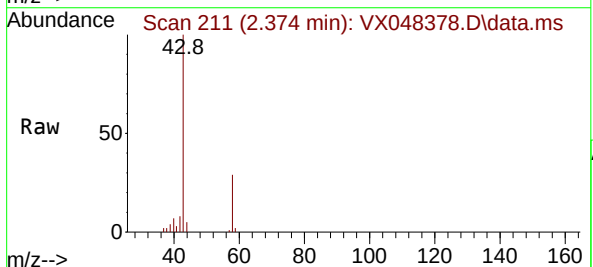
Acq: 27 Oct 2025 17:26

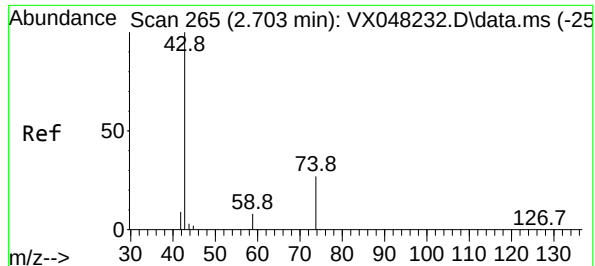
Tgt Ion: 43 Resp: 16829

Ion Ratio Lower Upper

43 100

58 28.0 23.4 35.2





#18

Methyl Acetate

Concen: 3.031 ug/l

RT: 2.703 min Scan# 2

Delta R.T. 0.006 min

Lab File: VX048378.D

Acq: 27 Oct 2025 17:26

Instrument :

MSVOA_X

ClientSampleId :

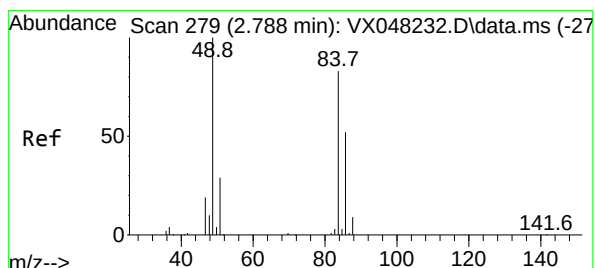
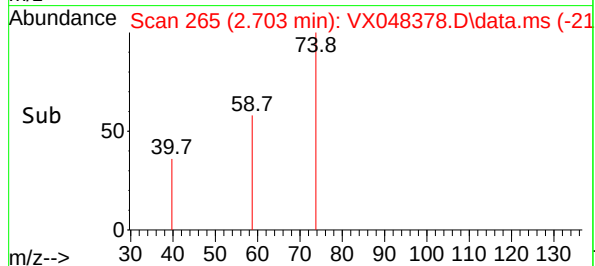
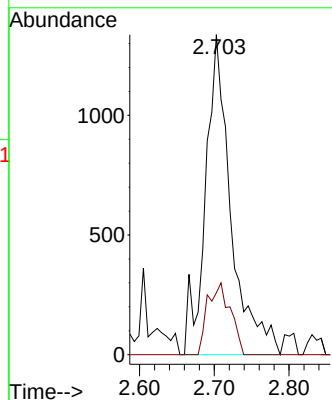
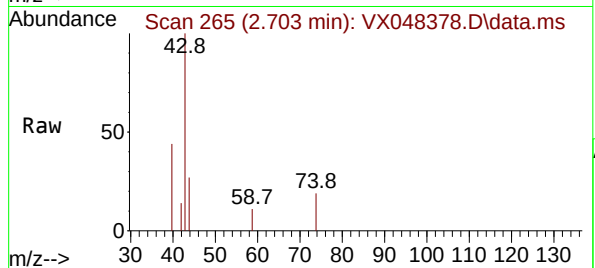
P001-TW3-251023-01

Tgt Ion: 43 Resp: 3172

Ion Ratio Lower Upper

43 100

74 20.1 17.5 26.3



#20

Methylene Chloride

Concen: 4.925 ug/l

RT: 2.794 min Scan# 280

Delta R.T. 0.006 min

Lab File: VX048378.D

Acq: 27 Oct 2025 17:26

Tgt Ion: 84 Resp: 6013

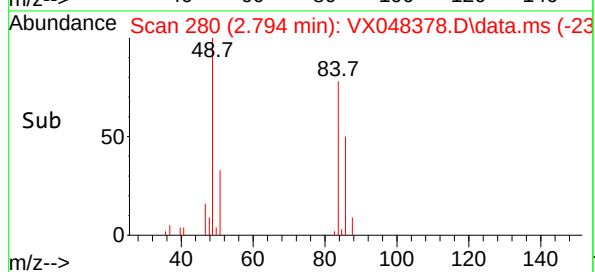
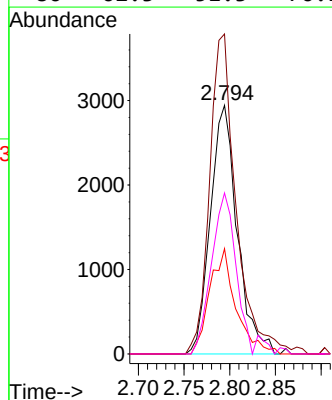
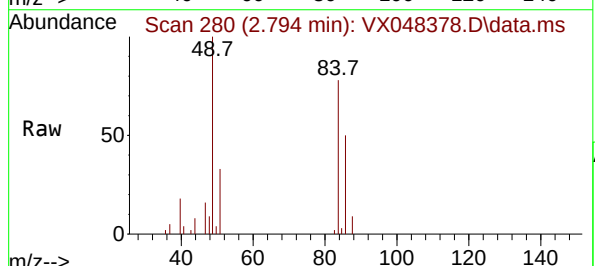
Ion Ratio Lower Upper

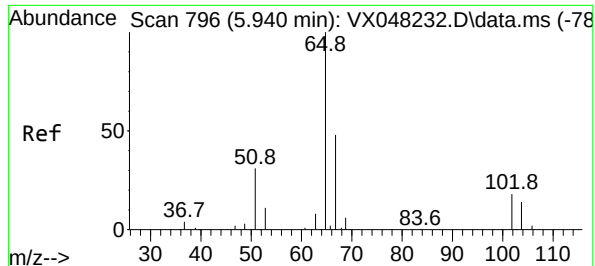
84 100

49 123.9 104.1 156.1

51 40.8 31.3 46.9

86 62.3 51.3 76.9





#33

1,2-Dichloroethane-d4

Concen: 53.734 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX048378.D

Acq: 27 Oct 2025 17:26

Instrument :

MSVOA_X

ClientSampleId :

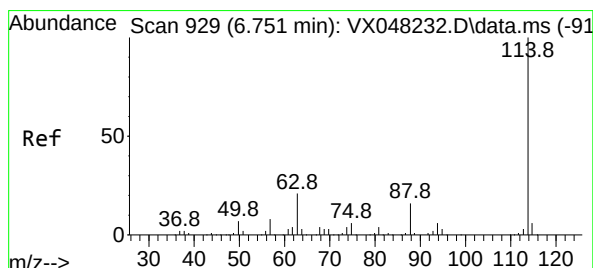
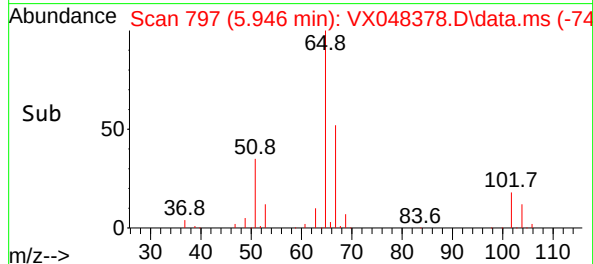
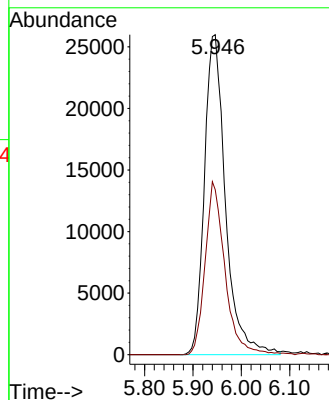
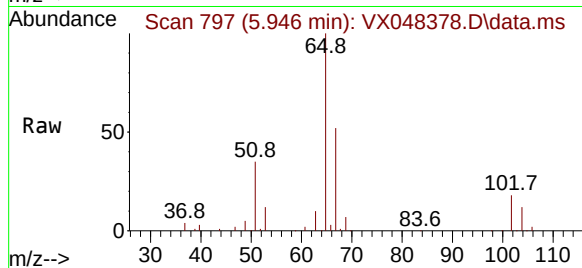
P001-TW3-251023-01

Tgt Ion: 65 Resp: 78485

Ion Ratio Lower Upper

65 100

67 51.2 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX048378.D

Acq: 27 Oct 2025 17:26

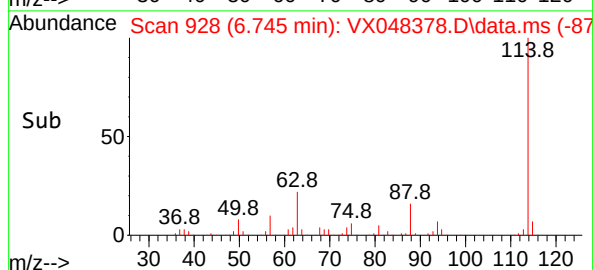
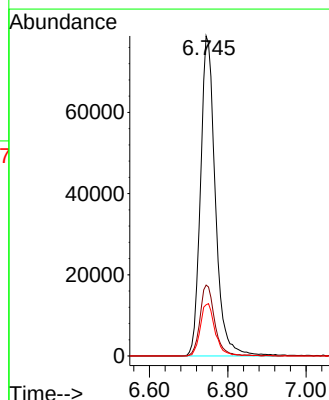
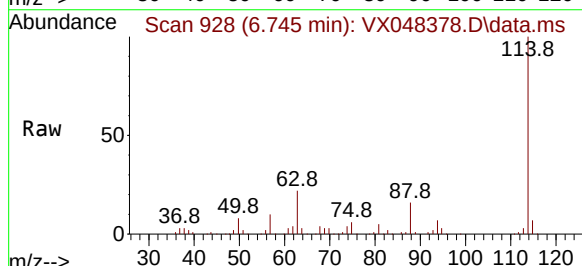
Tgt Ion: 114 Resp: 207774

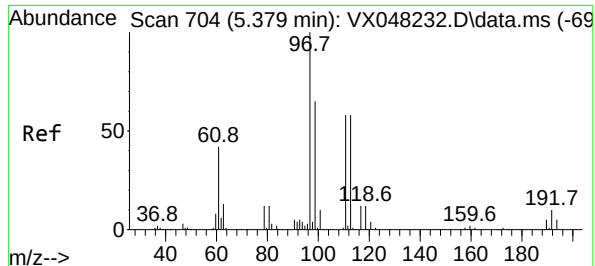
Ion Ratio Lower Upper

114 100

63 22.1 0.0 43.2

88 16.0 0.0 33.6





#35

Dibromofluoromethane

Concen: 39.012 ug/l

RT: 5.373 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX048378.D

Acq: 27 Oct 2025 17:26

Instrument :

MSVOA_X

ClientSampleId :

P001-TW3-251023-01

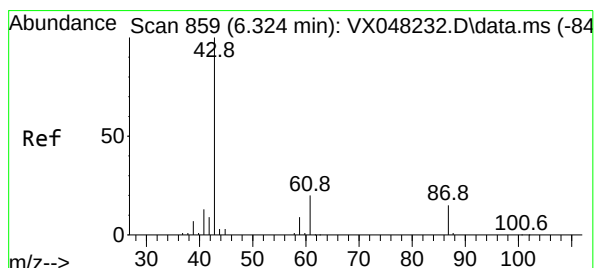
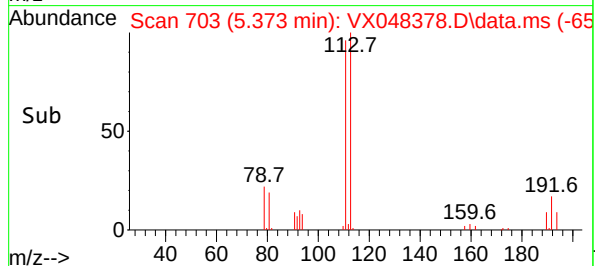
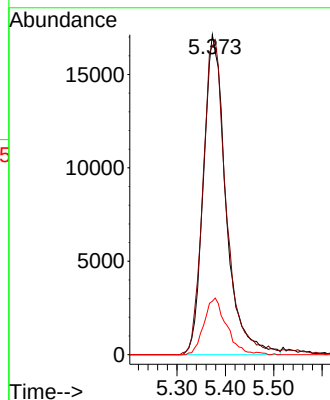
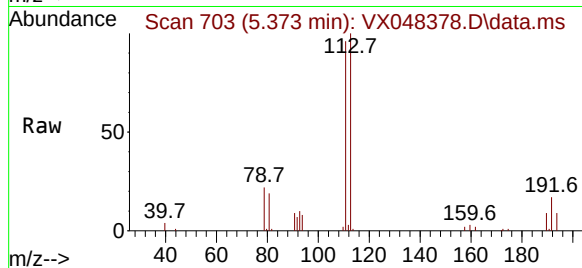
Tgt Ion:113 Resp: 55337

Ion Ratio Lower Upper

113 100

111 100.7 82.2 123.4

192 17.6 15.1 22.7



#43

Isopropyl Acetate

Concen: 1.490 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.012 min

Lab File: VX048378.D

Acq: 27 Oct 2025 17:26

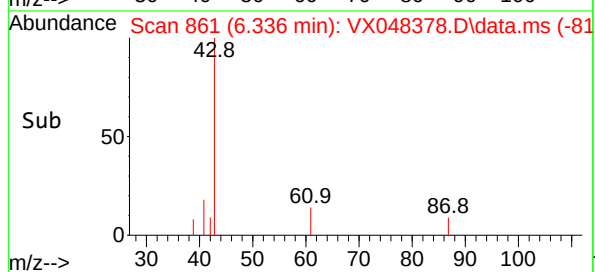
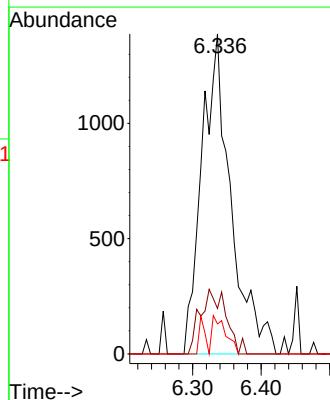
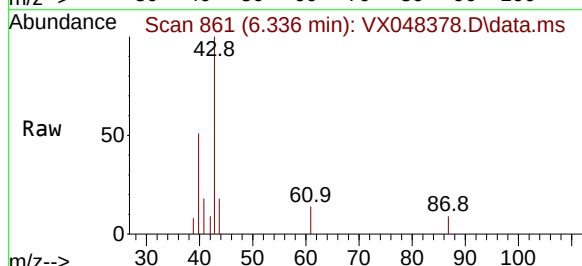
Tgt Ion: 43 Resp: 4091

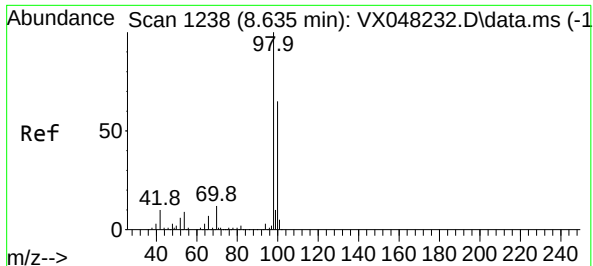
Ion Ratio Lower Upper

43 100

61 18.0 14.9 22.3

87 5.7 9.4 14.2#





#50

Toluene-d8

Concen: 46.388 ug/l

RT: 8.635 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048378.D

Acq: 27 Oct 2025 17:26

Instrument :

MSVOA_X

ClientSampleId :

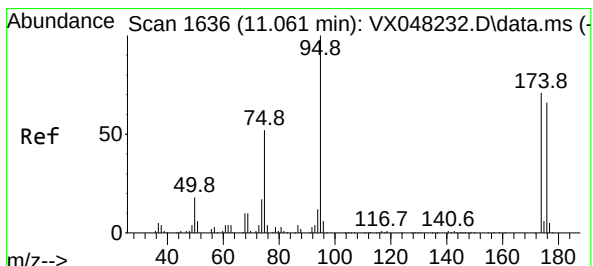
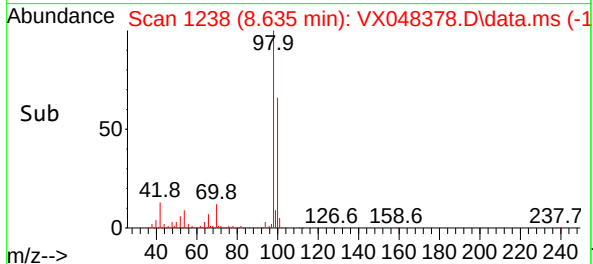
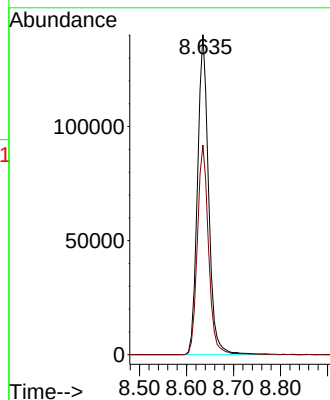
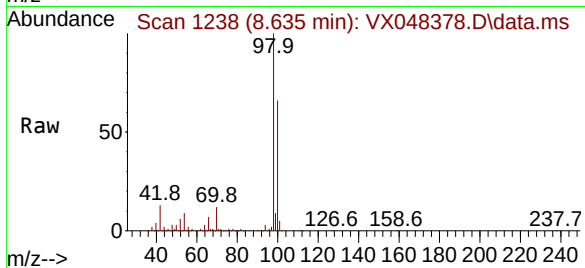
P001-TW3-251023-01

Tgt Ion: 98 Resp: 230634

Ion Ratio Lower Upper

98 100

100 66.2 53.0 79.4



#62

4-Bromofluorobenzene

Concen: 53.741 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.000 min

Lab File: VX048378.D

Acq: 27 Oct 2025 17:26

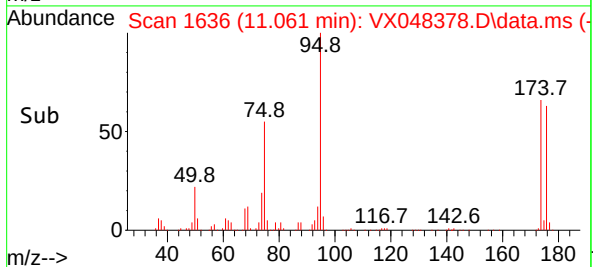
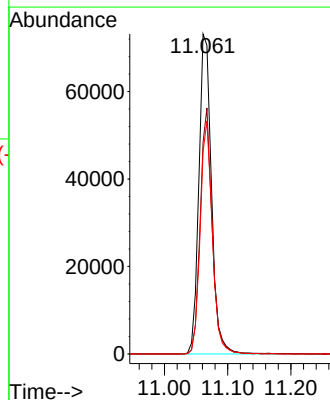
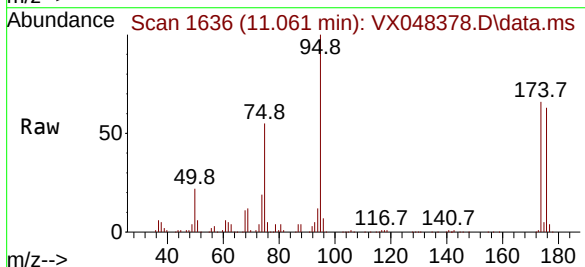
Tgt Ion: 95 Resp: 101648

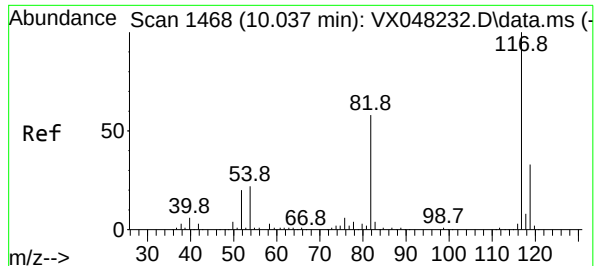
Ion Ratio Lower Upper

95 100

174 73.0 0.0 147.8

176 70.1 0.0 142.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048378.D

Acq: 27 Oct 2025 17:26

Instrument :

MSVOA_X

ClientSampleId :

P001-TW3-251023-01

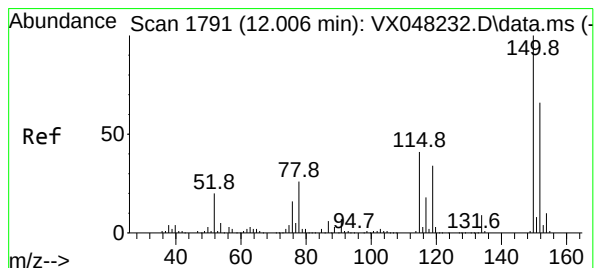
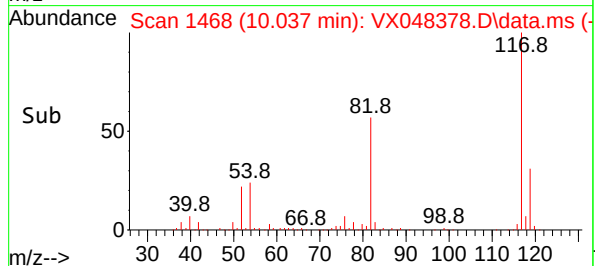
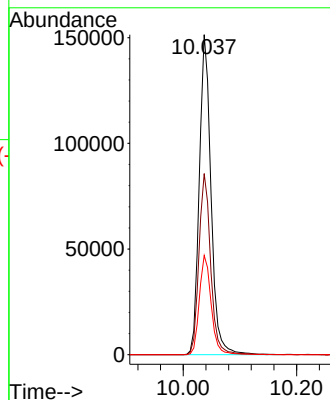
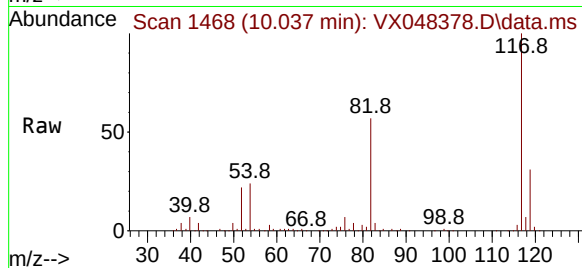
Tgt Ion:117 Resp: 217355

Ion Ratio Lower Upper

117 100

82 56.6 46.5 69.7

119 31.0 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX048378.D

Acq: 27 Oct 2025 17:26

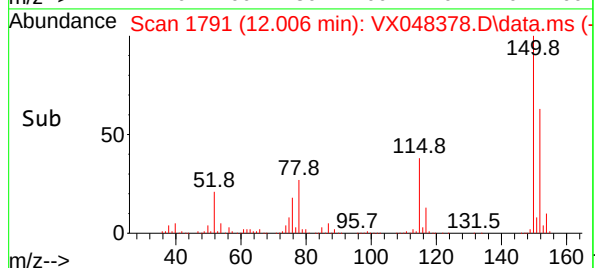
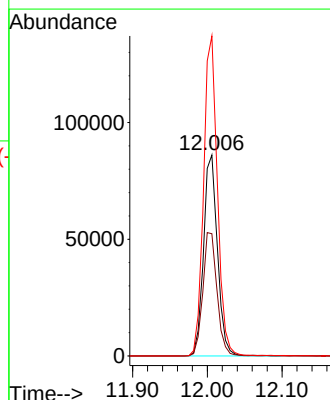
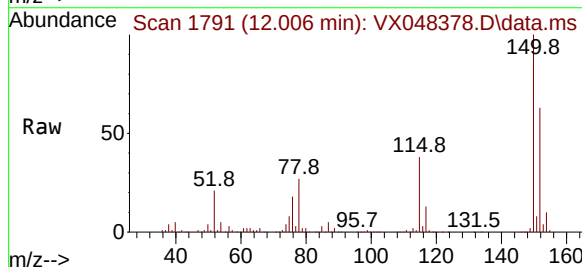
Tgt Ion:152 Resp: 111222

Ion Ratio Lower Upper

152 100

115 62.7 43.1 129.4

150 157.8 0.0 353.0



Report of Analysis

Client: Weston Solutions, Inc.
Project: RFP 905
Client Sample ID: P001-TW4-251023-01
Lab Sample ID: Q3447-08
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level : LOW
Final Vol: 5000 uL

Date Collected: 10/23/25
Date Received: 10/23/25
SDG No.: Q3447
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	UQ	1	0.26	5.00	ug/L	10/27/25 17:47	VX102725
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	5.00	ug/L	10/27/25 17:47	VX102725
78-93-3	2-Butanone	0.98	U	1	0.98	25.0	ug/L	10/27/25 17:47	VX102725
56-23-5	Carbon Tetrachloride	0.25	U	1	0.25	5.00	ug/L	10/27/25 17:47	VX102725
67-66-3	Chloroform	0.25	U	1	0.25	5.00	ug/L	10/27/25 17:47	VX102725
71-43-2	Benzene	0.15	U	1	0.15	5.00	ug/L	10/27/25 17:47	VX102725
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	5.00	ug/L	10/27/25 17:47	VX102725
79-01-6	Trichloroethene	0.090	U	1	0.090	5.00	ug/L	10/27/25 17:47	VX102725
127-18-4	Tetrachloroethene	0.23	U	1	0.23	5.00	ug/L	10/27/25 17:47	VX102725
108-90-7	Chlorobenzene	0.12	U	1	0.12	5.00	ug/L	10/27/25 17:47	VX102725
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.4			74 - 125	109%	SPK: 50		
1868-53-7	Dibromofluoromethane	38.6			75 - 124	77%	SPK: 50		
2037-26-5	Toluene-d8	47.2			86 - 113	94%	SPK: 50		
460-00-4	4-Bromofluorobenzene	54.8			77 - 121	110%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	121000							
540-36-3	1,4-Difluorobenzene	237000							
3114-55-4	Chlorobenzene-d5	247000							
3855-82-1	1,4-Dichlorobenzene-d4	129000							

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\VX102725\
 Data File : VX048379.D
 Acq On : 27 Oct 2025 17:47
 Operator : JC/MD
 Sample : Q3447-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 P001-TW4-251023-01

Quant Time: Oct 28 01:58:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

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

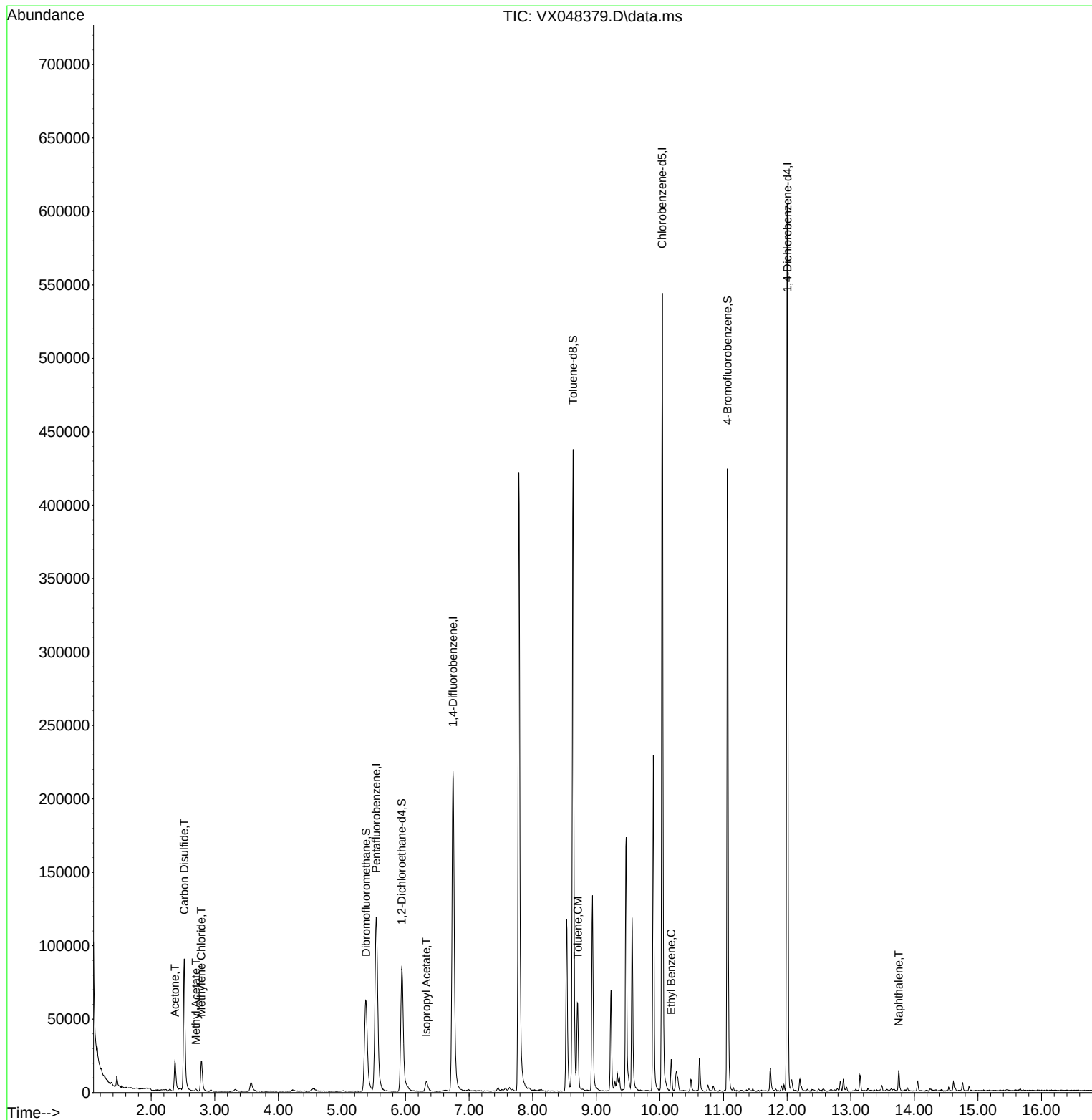
Internal Standards						
1) Pentafluorobenzene	5.538	168	121486	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	236810	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	246825	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	128536	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	92691	54.418	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.840%			
35) Dibromofluoromethane	5.379	113	62397	38.596	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 77.200%			
50) Toluene-d8	8.635	98	267256	47.163	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 94.320%			
62) 4-Bromofluorobenzene	11.061	95	118046	54.758	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 109.520%			
Target Compounds						
						Qvalue
16) Acetone	2.373	43	26248	44.919	ug/l	98
17) Carbon Disulfide	2.520	76	125382	31.192	ug/l	99
18) Methyl Acetate	2.703	43	2047	1.677	ug/l	91
20) Methylene Chloride	2.788	84	10430	7.325	ug/l	95
43) Isopropyl Acetate	6.324	43	10658	3.407	ug/l	96
52) Toluene	8.708	92	23620	5.573	ug/l	98
67) Ethyl Benzene	10.177	91	12668	1.340	ug/l	91
95) Naphthalene	13.756	128	8947	1.199	ug/l	98

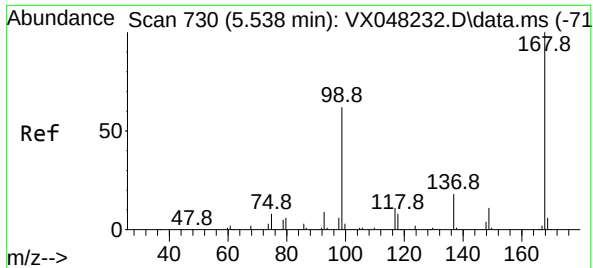
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
Data File : VX048379.D
Acq On : 27 Oct 2025 17:47
Operator : JC/MD
Sample : Q3447-08
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 26 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
P001-TW4-251023-01

Quant Time: Oct 28 01:58:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

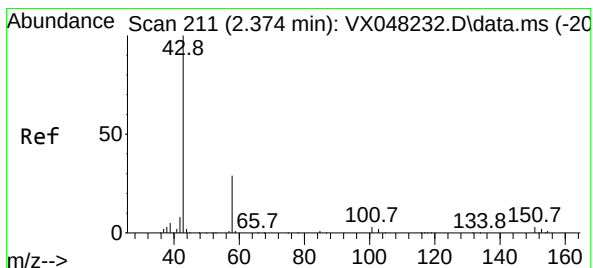
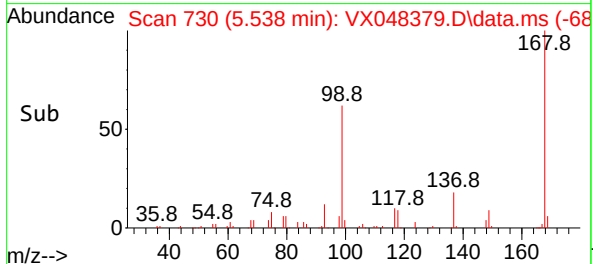
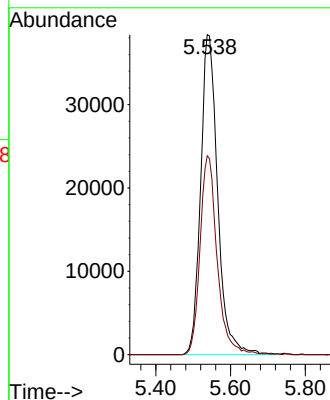
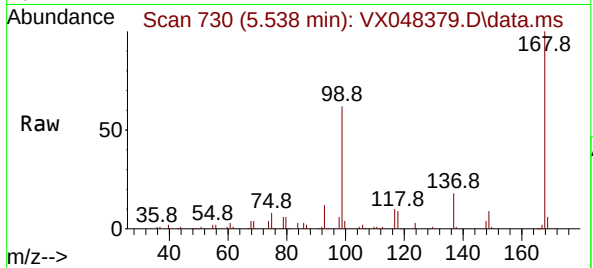




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

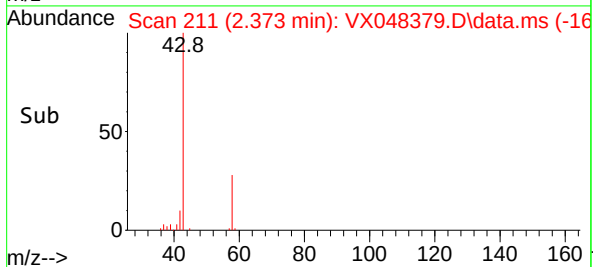
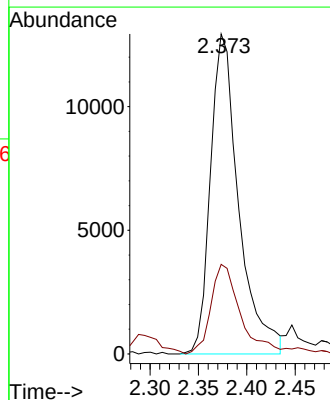
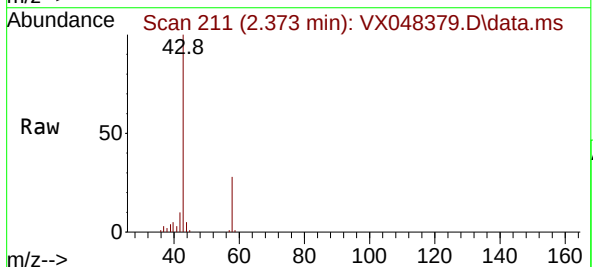
Instrument :
MSVOA_X
ClientSampleId :
P001-TW4-251023-01

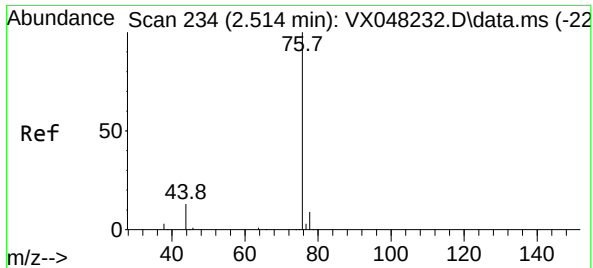
Tgt Ion:168 Resp: 121486
Ion Ratio Lower Upper
168 100
99 62.2 46.4 69.6



#16
Acetone
Concen: 44.919 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

Tgt Ion: 43 Resp: 26248
Ion Ratio Lower Upper
43 100
58 28.2 23.4 35.2

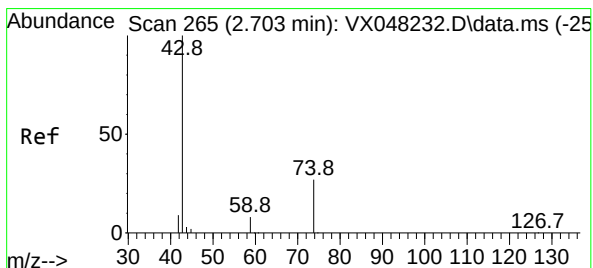
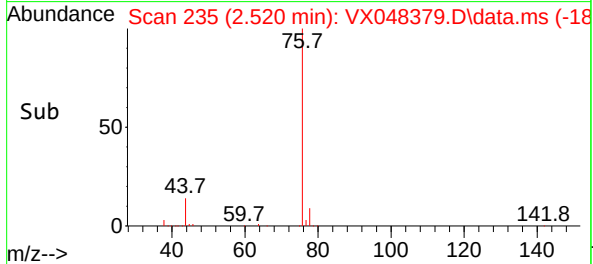
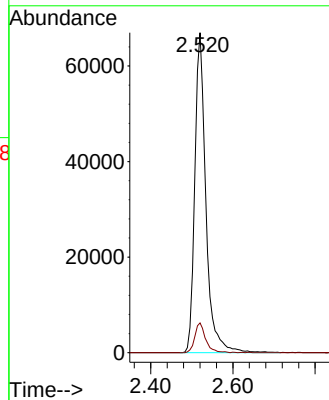
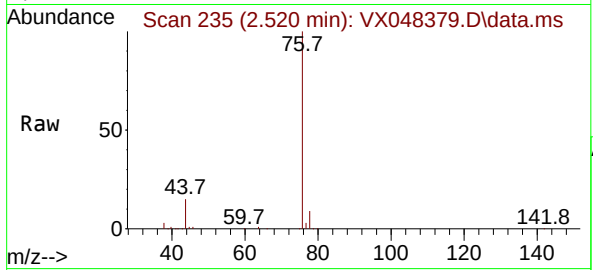




#17
Carbon Disulfide
Concen: 31.192 ug/l
RT: 2.520 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

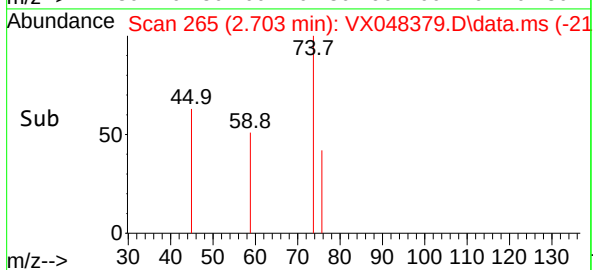
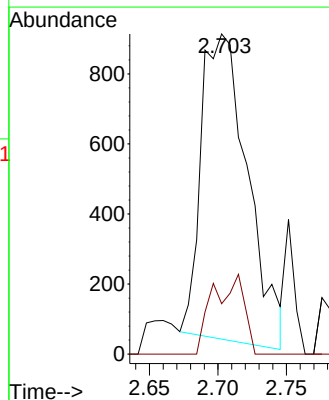
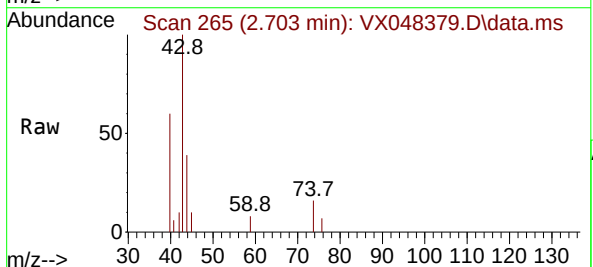
Instrument :
MSVOA_X
ClientSampleId :
P001-TW4-251023-01

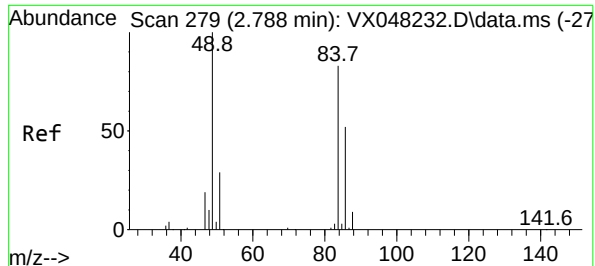
Tgt Ion: 76 Resp: 125382
Ion Ratio Lower Upper
76 100
78 9.4 7.1 10.7



#18
Methyl Acetate
Concen: 1.677 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

Tgt Ion: 43 Resp: 2047
Ion Ratio Lower Upper
43 100
74 17.6 17.5 26.3





#20

Methylene Chloride

Concen: 7.325 ug/l

RT: 2.788 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX048379.D

Acq: 27 Oct 2025 17:47

Instrument :

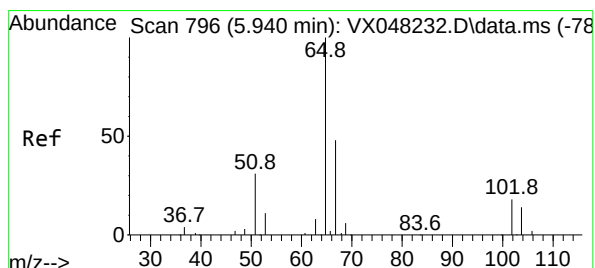
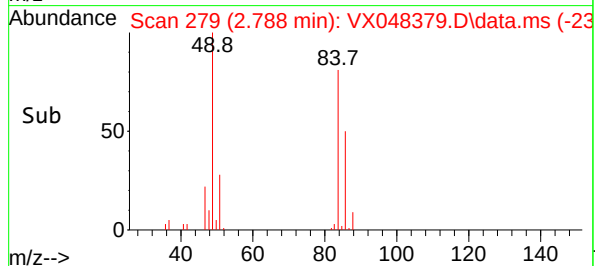
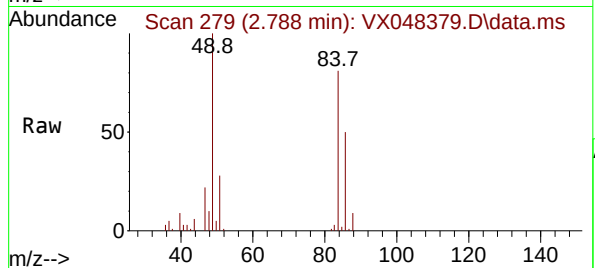
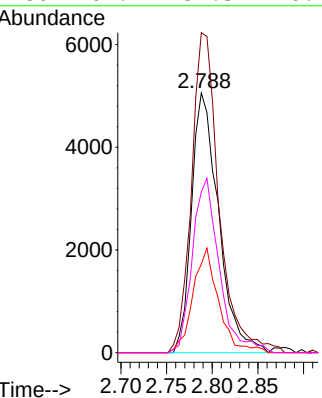
MSVOA_X

ClientSampleId :

P001-TW4-251023-01

Tgt Ion: 84 Resp: 10430

Ion	Ratio	Lower	Upper
84	100		
49	123.3	104.1	156.1
51	34.1	31.3	46.9
86	61.9	51.3	76.9



#33

1,2-Dichloroethane-d4

Concen: 54.418 ug/l

RT: 5.940 min Scan# 796

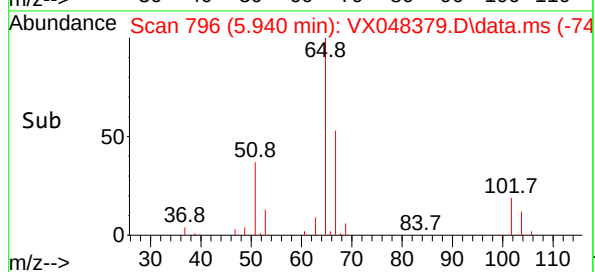
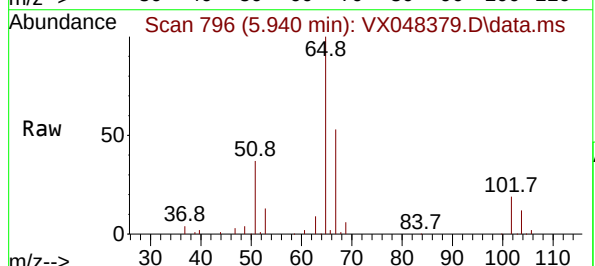
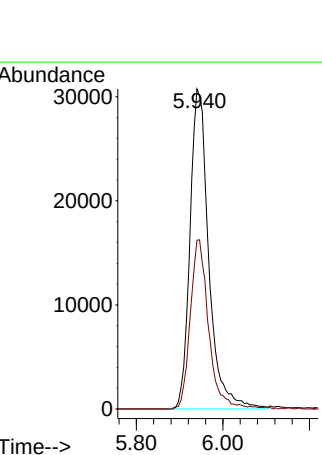
Delta R.T. -0.000 min

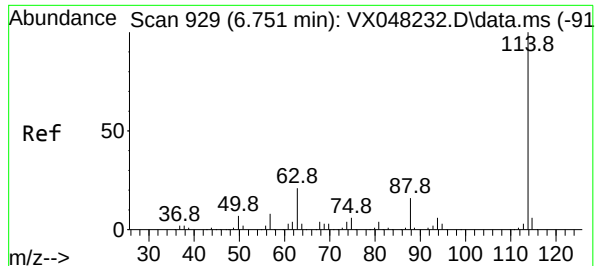
Lab File: VX048379.D

Acq: 27 Oct 2025 17:47

Tgt Ion: 65 Resp: 92691

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX048379.D

Acq: 27 Oct 2025 17:47

Instrument :

MSVOA_X

ClientSampleId :

P001-TW4-251023-01

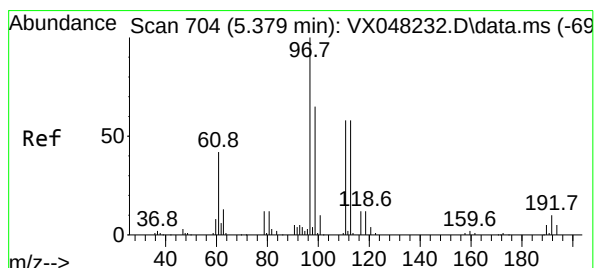
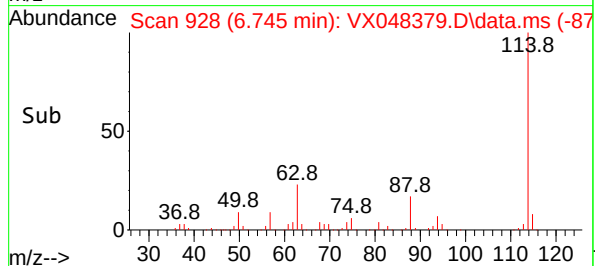
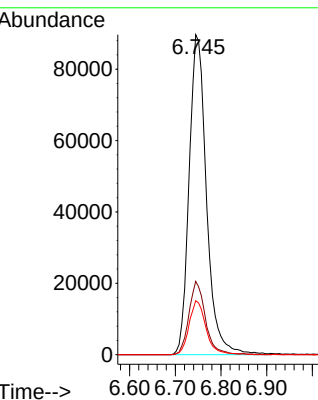
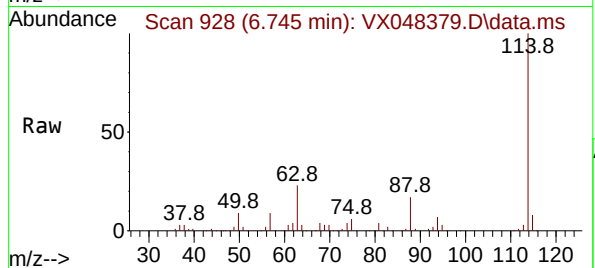
Tgt Ion:114 Resp: 236810

Ion Ratio Lower Upper

114 100

63 22.9 0.0 43.2

88 16.8 0.0 33.6



#35

Dibromofluoromethane

Concen: 38.596 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX048379.D

Acq: 27 Oct 2025 17:47

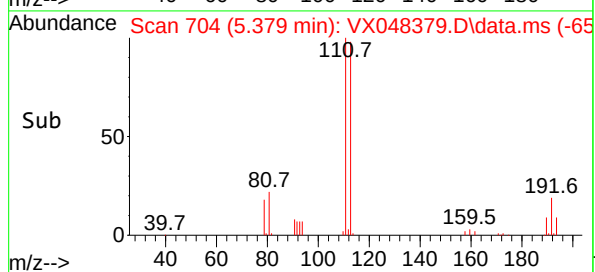
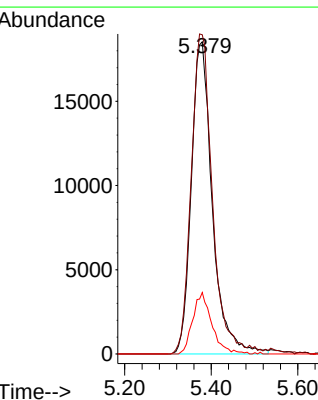
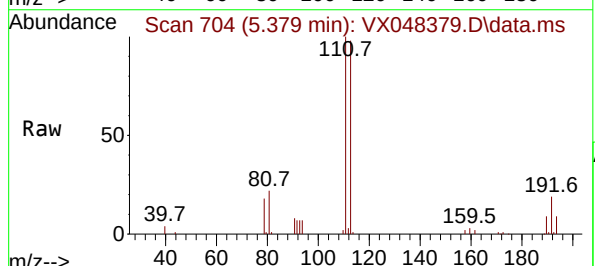
Tgt Ion:113 Resp: 62397

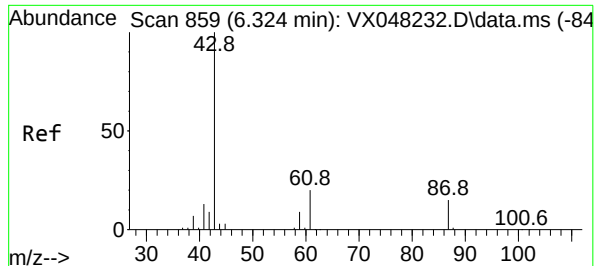
Ion Ratio Lower Upper

113 100

111 102.9 82.2 123.4

192 17.9 15.1 22.7





#43

Isopropyl Acetate

Concen: 3.407 ug/l

RT: 6.324 min Scan# 81

Delta R.T. -0.000 min

Lab File: VX048379.D

Acq: 27 Oct 2025 17:47

Instrument :

MSVOA_X

ClientSampleId :

P001-TW4-251023-01

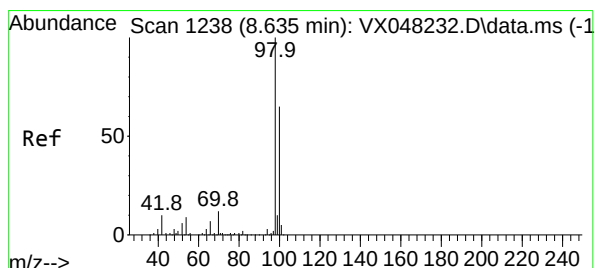
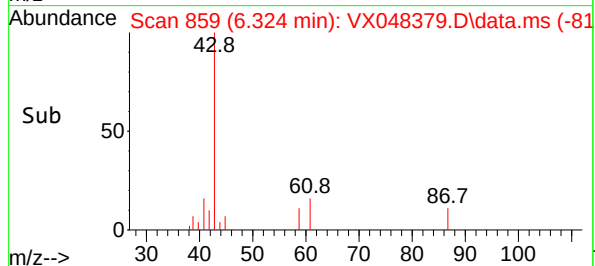
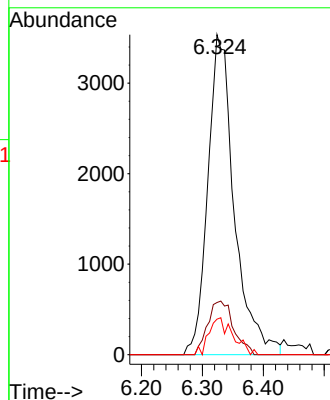
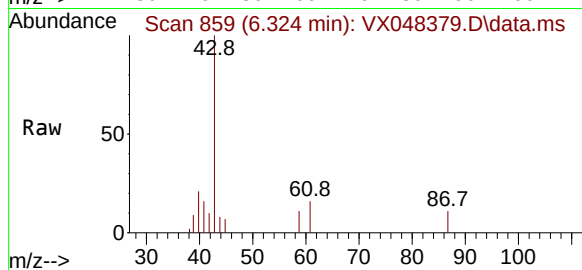
Tgt Ion: 43 Resp: 10658

Ion Ratio Lower Upper

43 100

61 16.4 14.9 22.3

87 10.5 9.4 14.2



#50

Toluene-d8

Concen: 47.163 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX048379.D

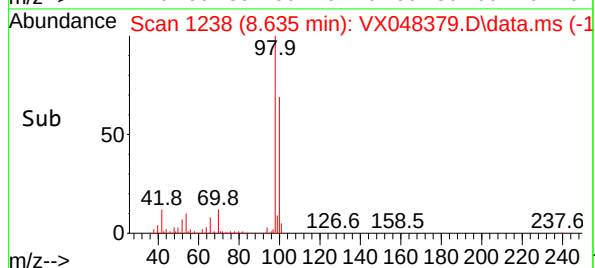
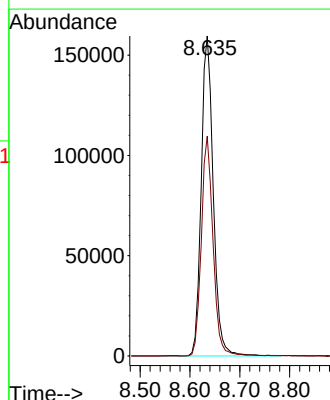
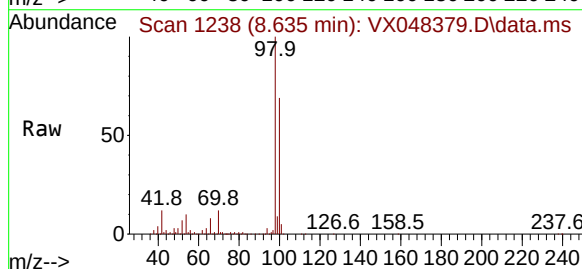
Acq: 27 Oct 2025 17:47

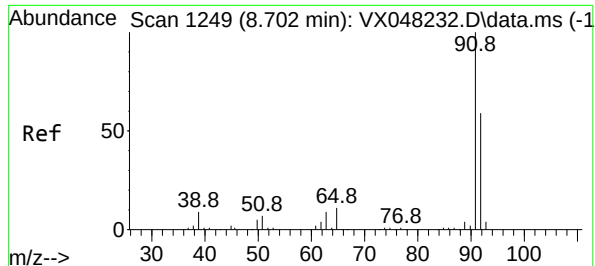
Tgt Ion: 98 Resp: 267256

Ion Ratio Lower Upper

98 100

100 66.8 53.0 79.4





#52

Toluene

Concen: 5.573 ug/l

RT: 8.708 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX048379.D

Acq: 27 Oct 2025 17:47

Instrument :

MSVOA_X

ClientSampleId :

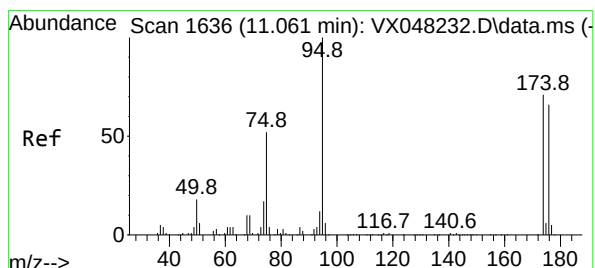
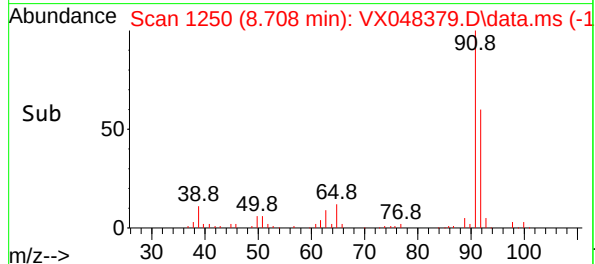
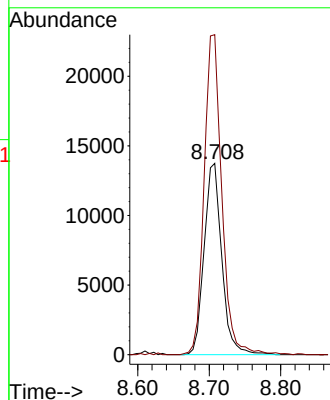
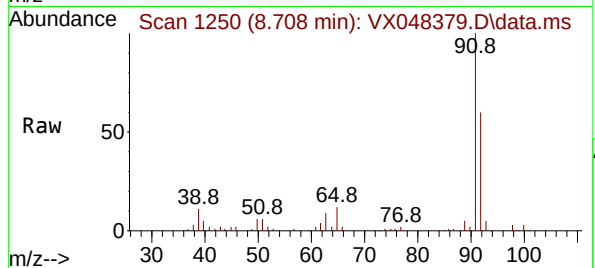
P001-TW4-251023-01

Tgt Ion: 92 Resp: 23620

Ion Ratio Lower Upper

92 100

91 167.3 136.1 204.1



#62

4-Bromofluorobenzene

Concen: 54.758 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.000 min

Lab File: VX048379.D

Acq: 27 Oct 2025 17:47

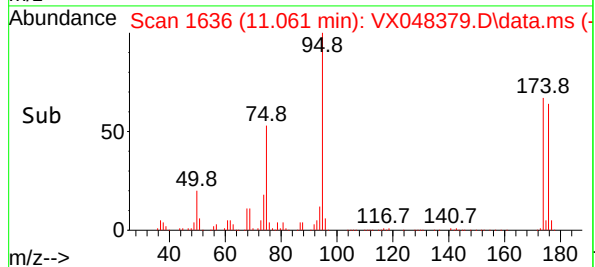
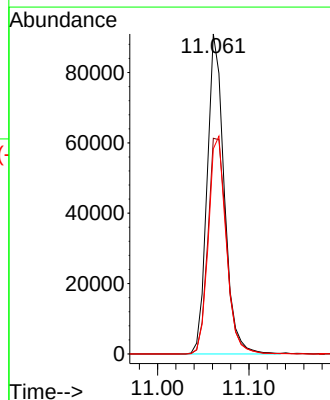
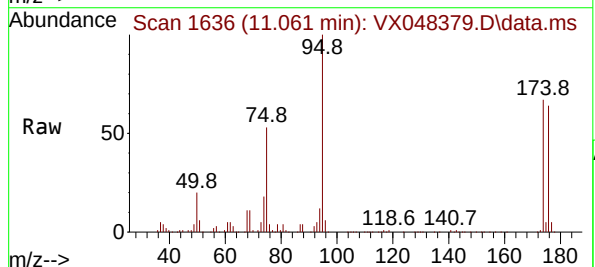
Tgt Ion: 95 Resp: 118046

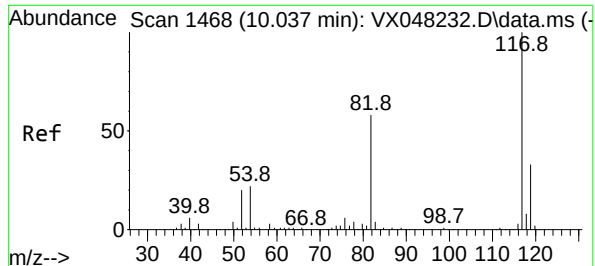
Ion Ratio Lower Upper

95 100

174 72.9 0.0 147.8

176 70.8 0.0 142.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048379.D

Acq: 27 Oct 2025 17:47

Instrument :

MSVOA_X

ClientSampleId :

P001-TW4-251023-01

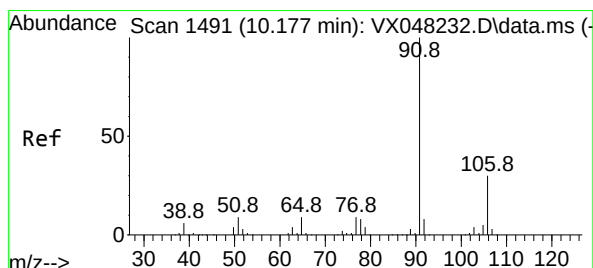
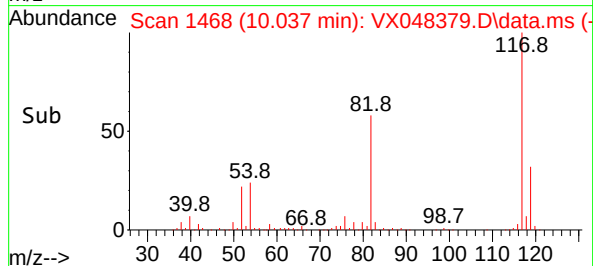
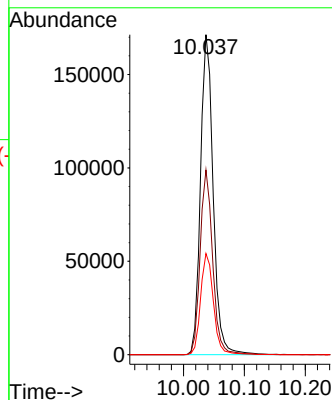
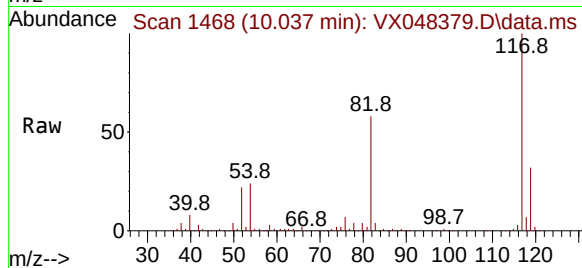
Tgt Ion:117 Resp: 246825

Ion Ratio Lower Upper

117 100

82 57.7 46.5 69.7

119 31.6 25.9 38.9



#67

Ethyl Benzene

Concen: 1.340 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX048379.D

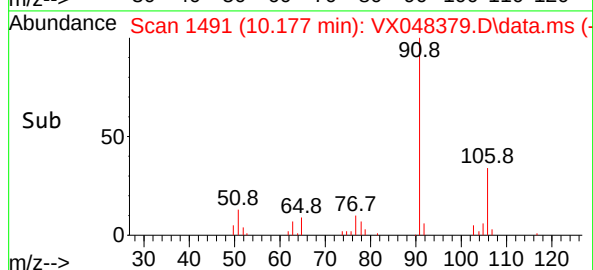
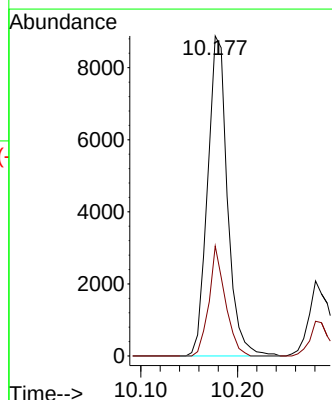
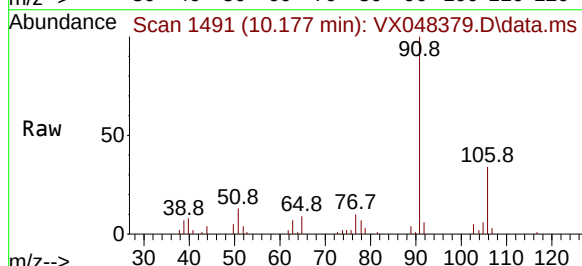
Acq: 27 Oct 2025 17:47

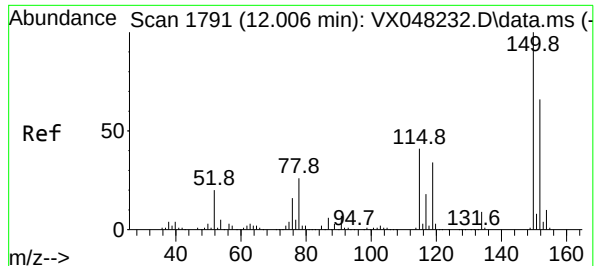
Tgt Ion: 91 Resp: 12668

Ion Ratio Lower Upper

91 100

106 34.4 23.8 35.6

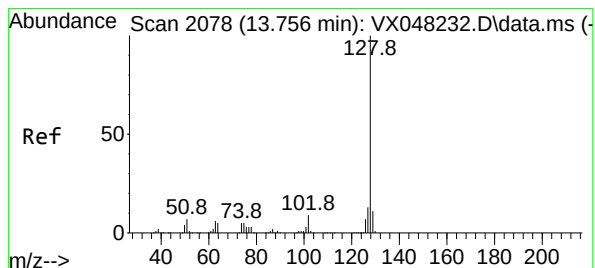
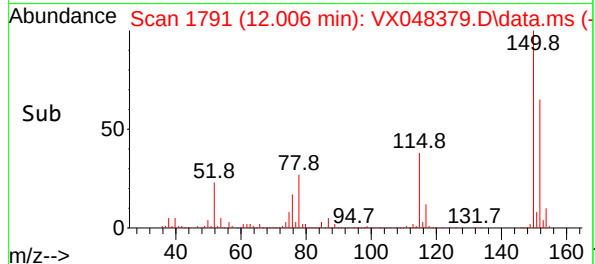
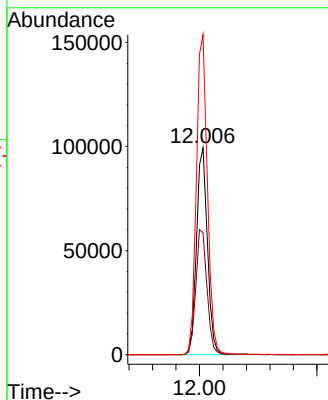
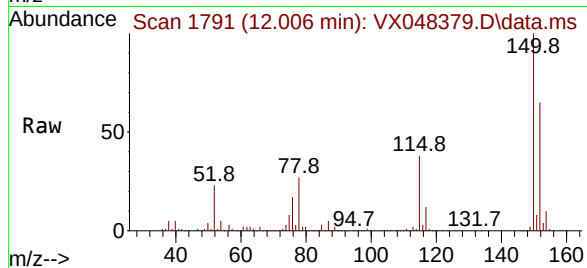




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

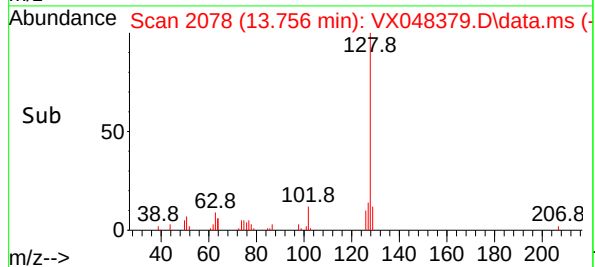
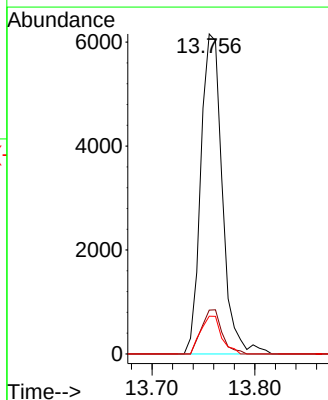
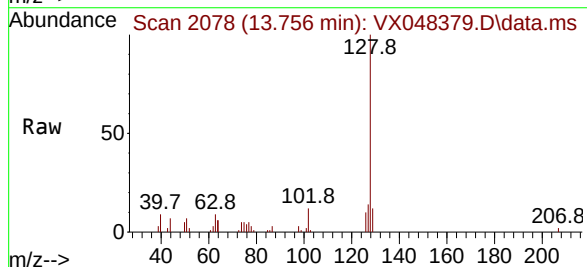
Instrument :
MSVOA_X
ClientSampleId :
P001-TW4-251023-01

Tgt Ion:152 Resp: 128536
Ion Ratio Lower Upper
152 100
115 61.9 43.1 129.4
150 156.0 0.0 353.0



#95
Naphthalene
Concen: 1.199 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX048379.D
Acq: 27 Oct 2025 17:47

Tgt Ion:128 Resp: 8947
Ion Ratio Lower Upper
128 100
127 13.2 10.2 15.4
129 11.5 8.6 12.8





CALIBRATION SUMMARY

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- 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.: Q3447
 Instrument ID: MSVOA_X Calibration Date(s): 10/20/2025 10/20/2025
 Heated Purge: (Y/N) N Calibration Time(s): 10:59 13:49
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX048229.D		RRF020 = VX048231.D		RRF050 = VX048232.D		
		RRF100 = VX048233.D		RRF150 = VX048234.D		RRF005 = VX048236.D		
COMPOUND	RRF001	RRF020	RRF050	RRF100	RRF150	RRF005	RRF	% RSD
Vinyl Chloride	0.447	0.437	0.416	0.462	0.445	0.458	0.444	3.7
1,1-Dichloroethene	0.515	0.548	0.485	0.558	0.531	0.514	0.525	5
2-Butanone	0.311	0.329	0.281	0.301	0.290	0.315	0.304	5.7
Carbon Tetrachloride	0.650	0.594	0.553	0.604	0.567	0.622	0.599	5.9
Chloroform	1.147	1.208	1.046	1.127	1.067	1.143	1.123	5.2
Benzene	1.493	1.480	1.301	1.426	1.347	1.405	1.409	5.3
1,2-Dichloroethane	0.529	0.566	0.500	0.528	0.496	0.499	0.520	5.2
Trichloroethene	0.400	0.373	0.348	0.380	0.363	0.366	0.372	4.7
Tetrachloroethene	0.418	0.378	0.328	0.370	0.361	0.385	0.373	7.9
Chlorobenzene	1.149	1.159	1.045	1.148	1.102	1.145	1.125	3.9
1,2-Dichloroethane-d4		0.709	0.682	0.690	0.698	0.725	0.701	2.4
Dibromofluoromethane		0.345	0.330	0.346	0.348	0.338	0.341	2.2
Toluene-d8		1.185	1.185	1.196	1.195	1.221	1.196	1.2
4-Bromofluorobenzene		0.445	0.444	0.446	0.441	0.500	0.455	5.5

* 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 : 82X102025W.M
 Title : SW846 8260
 Last Update : Mon Oct 20 14:13:59 2025
 Response Via : Initial Calibration

Calibration Files

1 =VX048229.D 5 =VX048236.D 20 =VX048231.D 50 =VX048232.D 100 =VX048233.D 150 =VX048234.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.522	0.522	0.513	0.483	0.540	0.504	0.514	3.74
3) P	Chloromethane	0.506	0.508	0.468	0.449	0.476	0.471	0.480	4.81
4) C	Vinyl Chloride	0.447	0.458	0.437	0.416	0.462	0.445	0.444	3.69#
5) T	Bromomethane		0.346	0.323	0.282	0.280	0.276	0.302	10.42
6) T	Chloroethane	0.233	0.261	0.277	0.247	0.282	0.267	0.261	7.16
7) T	Trichlorofluor...	0.776	0.880	0.874	0.807	0.907	0.869	0.852	5.83
8) T	Diethyl Ether	0.231	0.237	0.257	0.223	0.248	0.242	0.240	5.06
9) T	1,1,2-Trichlor...	0.512	0.553	0.540	0.501	0.583	0.549	0.540	5.48
10) T	Methyl Iodide		0.569	0.636	0.663	0.781	0.742	0.678	12.47
11) T	Tert butyl alc...		0.087	0.069	0.062	0.067	0.064	0.070	14.22
12) CM	1,1-Dichloroet...	0.515	0.514	0.548	0.485	0.558	0.531	0.525	5.03#
13) T	Acrolein		0.079	0.063	0.065	0.074	0.073	0.071	9.21
14) T	Allyl chloride	0.897	0.833	0.909	0.805	0.911	0.874	0.872	5.00
15) T	Acrylonitrile	0.255	0.245	0.267	0.239	0.254	0.246	0.251	3.89
16) T	Acetone	0.300	0.262	0.250	0.202	0.221	0.206	0.240	15.70
17) T	Carbon Disulfide	2.034	1.689	1.612	1.442	1.617	1.532	1.654	12.36
18) T	Methyl Acetate	0.514	0.464	0.551	0.466	0.514	0.504	0.502	6.56
19) T	Methyl tert-bu...	1.894	1.657	1.909	1.704	1.817	1.764	1.791	5.66
20) T	Methylene Chlo...	0.555	0.595	0.651	0.552	0.597	0.567	0.586	6.36
21) T	trans-1,2-Dich...	0.587	0.603	0.585	0.535	0.592	0.558	0.577	4.38
22) T	Diisopropyl ether	1.697	1.701	1.881	1.662	1.787	1.701	1.738	4.69
23) T	Vinyl Acetate	1.261	1.326	1.521	1.348	1.466	1.408	1.389	6.90
24) P	1,1-Dichloroet...	1.116	1.054	1.085	0.977	1.055	1.019	1.051	4.64
25) T	2-Butanone	0.311	0.315	0.329	0.281	0.301	0.290	0.304	5.70
26) T	2,2-Dichloropr...	1.002	0.945	0.973	0.876	0.973	0.924	0.949	4.69
27) T	cis-1,2-Dichlo...	0.682	0.673	0.700	0.626	0.695	0.661	0.673	4.03
28) T	Bromochloromet...	0.388	0.469	0.404	0.441	0.462	0.452	0.436	7.52
29) T	Tetrahydrofuran	0.178	0.183	0.198	0.171	0.184	0.180	0.182	5.00
30) C	Chloroform	1.147	1.143	1.208	1.046	1.127	1.067	1.123	5.22#
31) T	Cyclohexane		0.843	0.894	0.821	0.926	0.866	0.870	4.76
32) T	1,1,1-Trichlor...	1.049	1.041	1.085	0.973	1.055	1.007	1.035	3.83
33) S	1,2-Dichloroet...		0.725	0.709	0.682	0.690	0.698	0.701	2.40
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.338	0.345	0.330	0.346	0.348	0.341	2.17
36) T	1,1-Dichloropr...	0.562	0.475	0.491	0.433	0.490	0.460	0.485	8.96
37) T	Ethyl Acetate	0.459	0.396	0.396	0.368	0.410	0.384	0.402	7.71
38) T	Carbon Tetrach...	0.650	0.622	0.594	0.553	0.604	0.567	0.599	5.95
39) T	Methylcyclohexane	0.551	0.590	0.548	0.540	0.626	0.582	0.573	5.73
40) TM	Benzene	1.493	1.405	1.480	1.301	1.426	1.347	1.409	5.30
41) T	Methacrylonitrile	0.192	0.198	0.237	0.205	0.223	0.213	0.211	7.85
42) TM	1,2-Dichloroet...	0.529	0.499	0.566	0.500	0.528	0.496	0.520	5.23
43) T	Isopropyl Acetate	0.659	0.612	0.709	0.635	0.682	0.665	0.661	5.16
44) TM	Trichloroethene	0.400	0.366	0.373	0.348	0.380	0.363	0.372	4.73
45) C	1,2-Dichloropr...	0.309	0.337	0.362	0.321	0.347	0.333	0.335	5.54#
46) T	Dibromomethane	0.267	0.264	0.277	0.247	0.261	0.249	0.261	4.35
47) T	Bromodichlorom...	0.570	0.567	0.592	0.538	0.573	0.538	0.563	3.79
48) T	Methyl methacr...	0.332	0.300	0.356	0.322	0.350	0.340	0.333	6.07
49) T	1,4-Dioxane	0.003	0.004	0.005	0.004	0.005	0.005	0.004	12.99
50) S	Toluene-d8		1.221	1.185	1.185	1.195	1.195	1.196	1.22
51) T	4-Methyl-2-Pen...	0.366	0.374	0.422	0.377	0.384	0.362	0.381	5.71
52) CM	Toluene	0.881	0.925	0.944	0.861	0.910	0.849	0.895	4.15#
53) T	t-1,3-Dichloro...	0.477	0.526	0.582	0.545	0.574	0.553	0.543	7.02
54) T	cis-1,3-Dichlo...	0.582	0.556	0.604	0.572	0.615	0.585	0.586	3.67
55) T	1,1,2-Trichlor...	0.318	0.355	0.357	0.321	0.333	0.313	0.333	5.78
56) T	Ethyl methacry...	0.418	0.451	0.536	0.490	0.524	0.502	0.487	9.17

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X102025W.M

57)	T	1,3-Dichloropr...	0.563	0.572	0.614	0.548	0.572	0.541	0.568	4.51
58)	T	2-Chloroethyl ...	0.154	0.182	0.269	0.260	0.269	0.260	0.232	21.93
59)	T	2-Hexanone	0.231	0.271	0.298	0.267	0.271	0.256	0.266	8.30
60)	T	Dibromochlorom...	0.482	0.441	0.476	0.425	0.442	0.418	0.447	5.89
61)	T	1,2-Dibromoethane	0.346	0.353	0.393	0.342	0.359	0.336	0.355	5.72
62)	S	4-Bromofluorob...	0.500	0.445	0.444	0.446	0.441	0.455		5.51
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.418	0.385	0.378	0.328	0.370	0.361	0.373	7.92
65)	PM	Chlorobenzene	1.149	1.145	1.159	1.045	1.148	1.102	1.125	3.89
66)	T	1,1,1,2-Tetrac...	0.422	0.405	0.423	0.390	0.430	0.409	0.413	3.53
67)	C	Ethyl Benzene	1.905	1.876	1.954	1.825	2.008	1.922	1.915	3.30#
68)	T	m/p-Xylenes	0.647	0.727	0.750	0.687	0.750	0.707	0.712	5.60
69)	T	o-Xylene	0.652	0.684	0.712	0.664	0.723	0.686	0.687	3.93
70)	T	Styrene	1.054	1.165	1.236	1.143	1.247	1.173	1.170	5.98
71)	P	Bromoform	0.338	0.325	0.350	0.308	0.335	0.326	0.330	4.27
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.618	3.579	3.656	3.430	3.875	3.754	3.652	4.17
74)	T	N-amyl acetate	1.229	1.150	1.339	1.248	1.415	1.392	1.295	7.97
75)	P	1,1,2,2-Tetrac...	0.988	0.974	1.065	0.946	1.018	0.992	0.997	4.08
76)	T	1,2,3-Trichlor...	0.929	0.767	0.822	0.735	0.810	0.802	0.811	8.14
77)	T	Bromobenzene	0.940	0.897	0.930	0.858	0.953	0.916	0.916	3.73
78)	T	n-propylbenzene	4.000	4.169	4.255	4.017	4.544	4.385	4.228	5.02
79)	T	2-Chlorotoluene	2.575	2.512	2.615	2.397	2.693	2.590	2.564	3.92
80)	T	1,3,5-Trimethy...	2.988	2.889	3.079	2.861	3.222	3.094	3.022	4.53
81)	T	trans-1,4-Dich...	0.287	0.330	0.316	0.366	0.368	0.333		10.35
82)	T	4-Chlorotoluene	3.097	2.958	3.119	2.883	3.143	3.059	3.043	3.34
83)	T	tert-Butylbenzene	3.128	3.047	3.086	2.915	3.282	3.173	3.105	3.98
84)	T	1,2,4-Trimethy...	2.791	2.991	3.077	2.864	3.247	3.126	3.016	5.61
85)	T	sec-Butylbenzene	3.789	3.690	3.683	3.476	3.969	3.809	3.736	4.39
86)	T	p-Isopropyltol...	3.342	3.222	3.159	2.986	3.399	3.265	3.229	4.53
87)	T	1,3-Dichlorobe...	1.863	1.750	1.742	1.550	1.747	1.707	1.726	5.86
88)	T	1,4-Dichlorobe...	2.143	1.772	1.803	1.577	1.724	1.710	1.788	10.65
89)	T	n-Butylbenzene	3.328	2.869	2.807	2.622	3.073	2.936	2.939	8.22
90)	T	Hexachloroethane	0.680	0.647	0.621	0.569	0.664	0.645	0.638	6.11
91)	T	1,2-Dichlorobe...	1.803	1.590	1.631	1.494	1.619	1.588	1.621	6.25
92)	T	1,2-Dibromo-3-...	0.167	0.187	0.219	0.195	0.224	0.223	0.202	11.51
93)	T	1,2,4-Trichlor...	1.441	0.994	0.975	0.959	1.114	1.094	1.096	16.47
94)	T	Hexachlorobuta...	0.953	0.482	0.399	0.373	0.426	0.409	0.507	43.70
95)	T	Naphthalene	2.942	2.473	2.880	2.776	3.171	3.181	2.904	9.14
96)	T	1,2,3-Trichlor...	1.154	0.947	0.942	0.909	1.050	1.033	1.006	9.04

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
 Data File : VX048229.D
 Acq On : 20 Oct 2025 10:59
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations APPROVED

Reviewed By : John Carlone 10/21/2025
 Supervised By : Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 12:42:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 12:35:14 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	117157	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	193186	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	177252	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	86943	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	1.173	85	1223	0.995	ug/l	82
3) Chloromethane	1.301	50	1186	0.796	ug/l #	62
4) Vinyl Chloride	1.380	62	1048	0.668	ug/l	92
6) Chloroethane	1.697	64	545	0.546	ug/l	91
7) Trichlorofluoromethane	1.898	101	1819	0.738	ug/l	98
8) Diethyl Ether	2.142	74	542	0.645	ug/l	81
9) 1,1,2-Trichlorotrifluo...	2.337	101	1199	0.864	ug/l	89
12) 1,1-Dichloroethene	2.325	96	1207	0.889	ug/l	88
14) Allyl chloride	2.666	41	2101	0.860	ug/l	96
15) Acrylonitrile	3.069	53	2984	5.171	ug/l	97
16) Acetone	2.380	43	3519	5.684	ug/l	98
17) Carbon Disulfide	2.520	76	4767	1.141	ug/l #	92
18) Methyl Acetate	2.703	43	1204	0.955	ug/l #	85
19) Methyl tert-butyl Ether	3.111	73	4437	1.085	ug/l	100
20) Methylene Chloride	2.794	84	1301	0.863	ug/l #	76
21) trans-1,2-Dichloroethene	3.099	96	1376	0.980	ug/l	96
22) Diisopropyl ether	3.745	45	3977	0.832	ug/l #	26
23) Vinyl Acetate	3.727	43	14769	4.131	ug/l	95
24) 1,1-Dichloroethane	3.611	63	2615	0.964	ug/l	97
25) 2-Butanone	4.574	43	3638	5.043	ug/l	98
26) 2,2-Dichloropropane	4.465	77	2347	1.012	ug/l	84
27) cis-1,2-Dichloroethene	4.489	96	1598	0.959	ug/l	94
28) Bromochloromethane	4.879	49	908	0.726	ug/l #	69
29) Tetrahydrofuran	5.007	42	2088	4.929	ug/l #	73
30) Chloroform	5.093	83	2688	0.941	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	2459	1.048	ug/l #	50
36) 1,1-Dichloropropene	5.696	75	2173	1.151	ug/l #	62
37) Ethyl Acetate	4.727	43	1772m	1.174	ug/l	
38) Carbon Tetrachloride	5.672	117	2513m	1.159	ug/l	
39) Methylcyclohexane	7.373	83	2128	0.999	ug/l	94
40) Benzene	6.032	78	5767	1.028	ug/l #	89
41) Methacrylonitrile	4.916	41	741m	0.917	ug/l	
42) 1,2-Dichloroethane	6.080	62	2044	1.017	ug/l	87
43) Isopropyl Acetate	6.336	43	2548	1.006	ug/l #	85
44) Trichloroethene	7.117	130	1547	1.094	ug/l	83
45) 1,2-Dichloropropane	7.422	63	1195	0.842	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
 Data File : VX048229.D
 Acq On : 20 Oct 2025 10:59
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Quant Time: Oct 20 12:42:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 12:35:14 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/21/2025
 Supervised By : Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.574	93	1032	1.011	ug/l	95
47) Bromodichloromethane	7.812	83	2204	0.999	ug/l #	79
48) Methyl methacrylate	7.684	41	1283	0.989	ug/l	95
49) 1,4-Dioxane	7.665	88	255	21.840	ug/l #	34
51) 4-Methyl-2-Pentanone	8.562	43	7066	5.011	ug/l	91
52) Toluene	8.708	92	3403	1.010	ug/l	95
53) t-1,3-Dichloropropene	8.970	75	1844	0.892	ug/l #	74
54) cis-1,3-Dichloropropene	8.360	75	2250	0.998	ug/l	90
55) 1,1,2-Trichloroethane	9.147	97	1229	0.977	ug/l #	85
56) Ethyl methacrylate	9.104	69	1616	0.945	ug/l	96
57) 1,3-Dichloropropane	9.299	76	2174	0.989	ug/l	93
58) 2-Chloroethyl Vinyl ether	8.232	63	2970	3.381	ug/l	100
59) 2-Hexanone	9.421	43	4456	4.518	ug/l	92
60) Dibromochloromethane	9.507	129	1862	1.183	ug/l	95
61) 1,2-Dibromoethane	9.598	107	1338	1.037	ug/l	98
64) Tetrachloroethene	9.257	164	1482	1.192	ug/l	92
65) Chlorobenzene	10.067	112	4073	1.051	ug/l	90
66) 1,1,1,2-Tetrachloroethane	10.147	131	1495	1.070	ug/l #	66
67) Ethyl Benzene	10.177	91	6752	1.016	ug/l	97
68) m/p-Xylenes	10.287	106	4589	1.854	ug/l	90
69) o-Xylene	10.628	106	2313	0.993	ug/l	99
70) Styrene	10.640	104	3737	0.932	ug/l	96
71) Bromoform	10.787	173	1198	1.168	ug/l #	99
73) Isopropylbenzene	10.945	105	6291	1.040	ug/l	93
74) N-amyl acetate	10.829	43	2137	0.947	ug/l #	90
75) 1,1,2,2-Tetrachloroethane	11.195	83	1718	1.003	ug/l	90
76) 1,2,3-Trichloropropane	11.220	75	1615m	1.216	ug/l	
77) Bromobenzene	11.183	156	1635	1.080	ug/l	91
78) n-propylbenzene	11.287	91	6956	0.949	ug/l	94
79) 2-Chlorotoluene	11.348	91	4477	1.010	ug/l	97
80) 1,3,5-Trimethylbenzene	11.433	105	5196	1.047	ug/l	97
82) 4-Chlorotoluene	11.439	91	5385	1.034	ug/l	99
83) tert-Butylbenzene	11.695	119	5439	1.085	ug/l	91
84) 1,2,4-Trimethylbenzene	11.738	105	4854	0.982	ug/l	99
85) sec-Butylbenzene	11.872	105	6589	1.075	ug/l	99
86) p-Isopropyltoluene	11.994	119	5812	1.125	ug/l	91
87) 1,3-Dichlorobenzene	11.951	146	3239	1.145	ug/l	96
88) 1,4-Dichlorobenzene	12.024	146	3727m	1.270	ug/l	
89) n-Butylbenzene	12.317	91	5787	1.202	ug/l	98
90) Hexachloroethane	12.518	117	1182	1.084	ug/l	77
91) 1,2-Dichlorobenzene	12.317	146	3135	1.172	ug/l	96
92) 1,2-Dibromo-3-Chloropr...	12.933	75	290	0.926	ug/l	79
93) 1,2,4-Trichlorobenzene	13.573	180	2505	1.587	ug/l	90
94) Hexachlorobutadiene	13.707	225	1658	2.724	ug/l	97
95) Naphthalene	13.762	128	5116	1.230	ug/l	98
96) 1,2,3-Trichlorobenzene	13.945	180	2006	1.377	ug/l	100

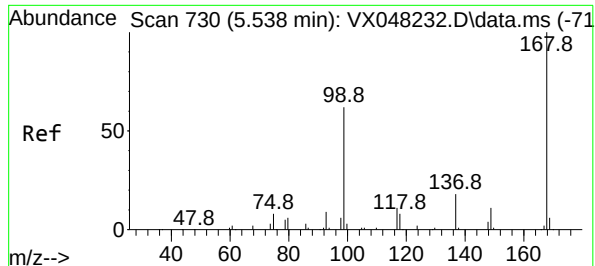
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.000 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:168 Resp: 11715

Ion Ratio Lower Upper

168 100

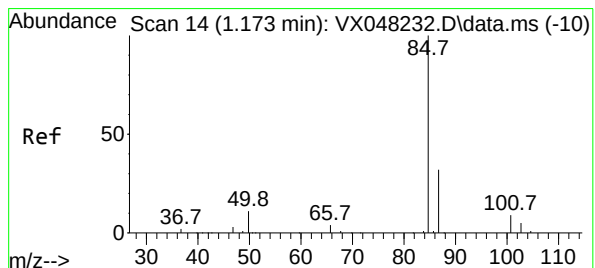
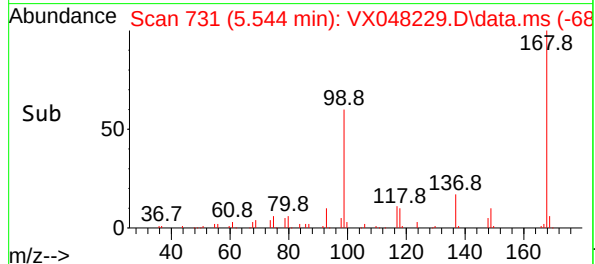
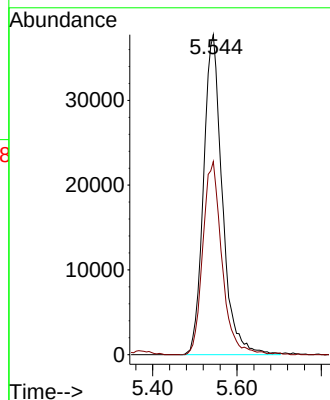
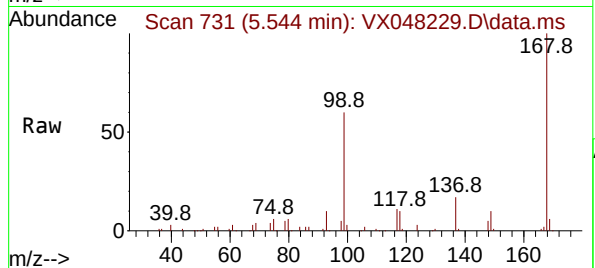
99 60.3 46.4 69.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#2

Dichlorodifluoromethane

Concen: 0.995 ug/l

RT: 1.173 min Scan# 14

Delta R.T. 0.000 min

Lab File: VX048229.D

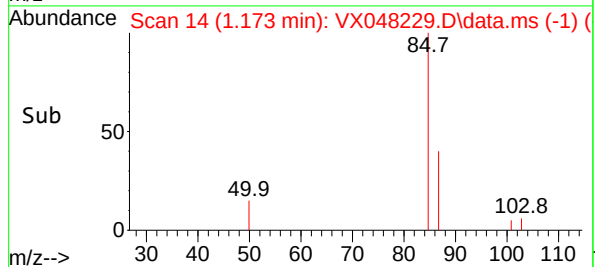
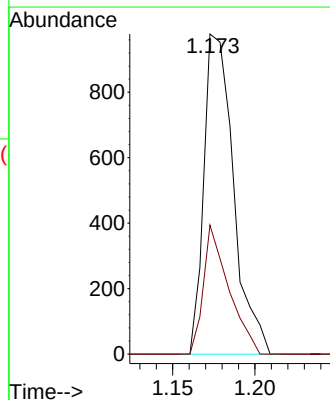
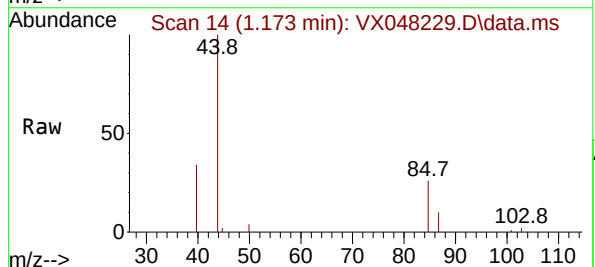
Acq: 20 Oct 2025 10:59

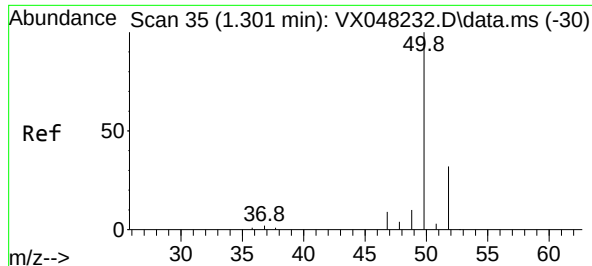
Tgt Ion: 85 Resp: 1223

Ion Ratio Lower Upper

85 100

87 40.3 15.3 45.9





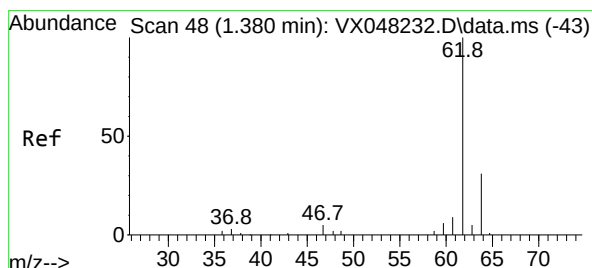
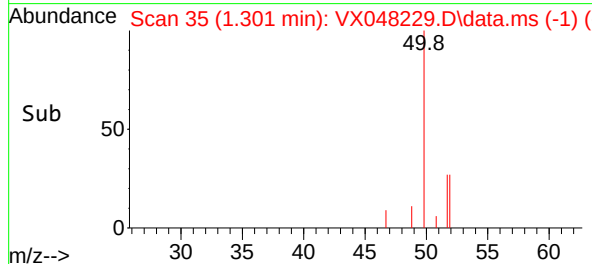
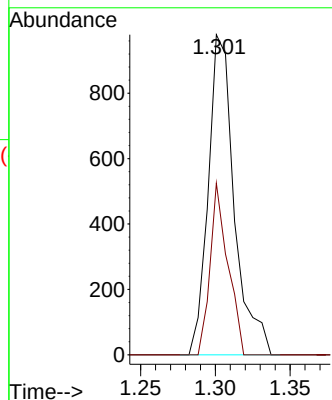
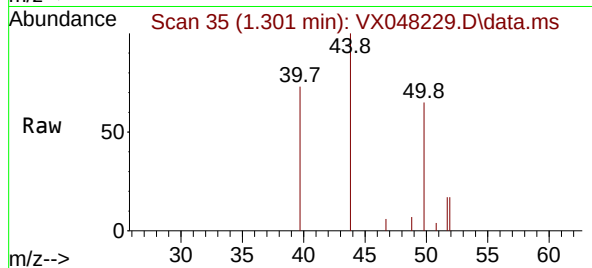
#3
Chloromethane
Concen: 0.796 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 1180
Ion Ratio Lower Upper
50 100
52 53.6 25.9 38.9

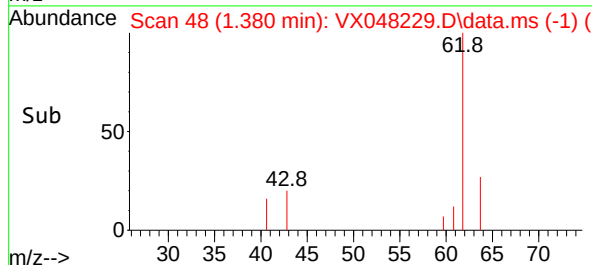
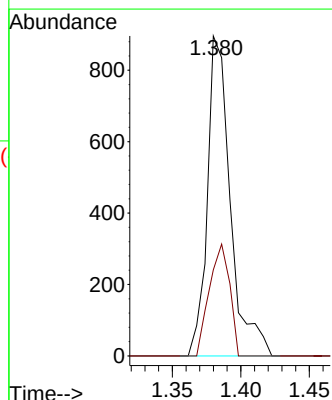
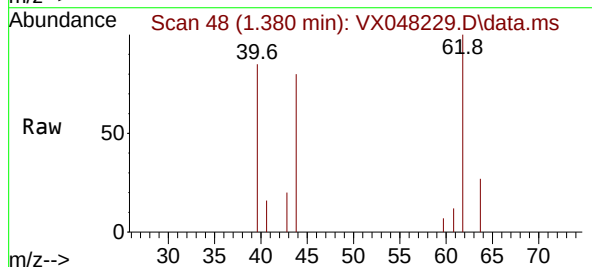
Manual Integrations
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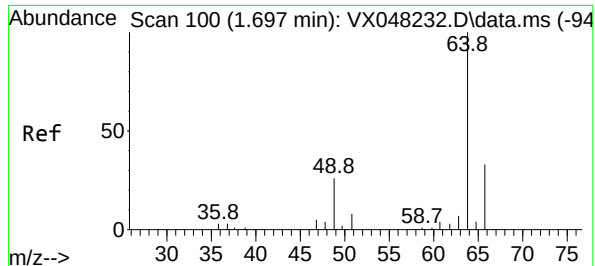
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#4
Vinyl Chloride
Concen: 0.668 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 62 Resp: 1048
Ion Ratio Lower Upper
62 100
64 26.9 25.1 37.7





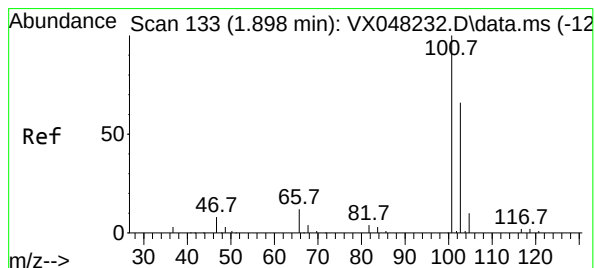
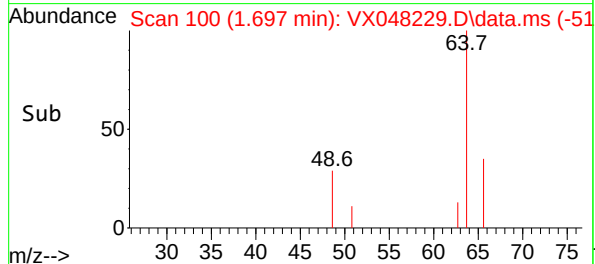
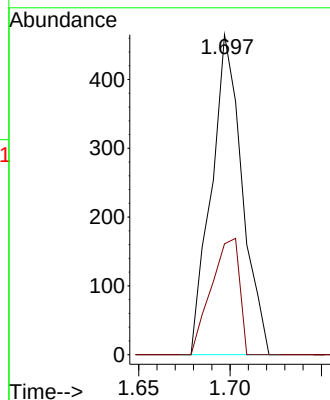
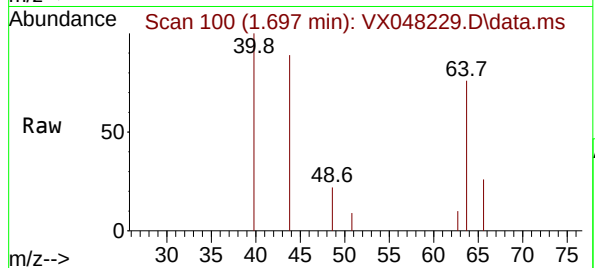
#6
Chloroethane
Concen: 0.546 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 549
Ion Ratio Lower Upper
64 100
66 34.6 23.9 35.9

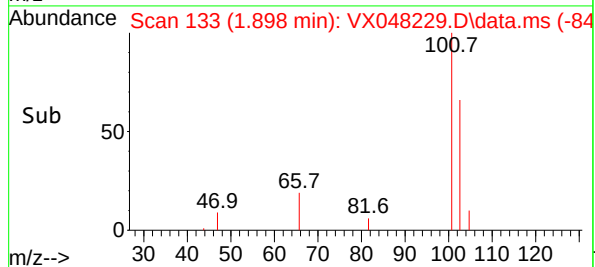
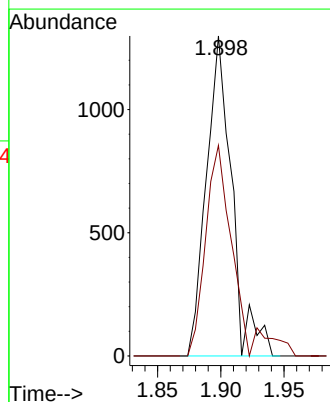
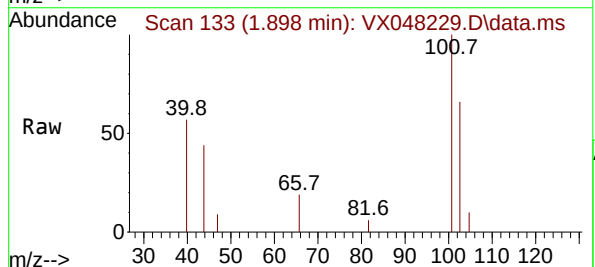
Manual Integrations
APPROVED

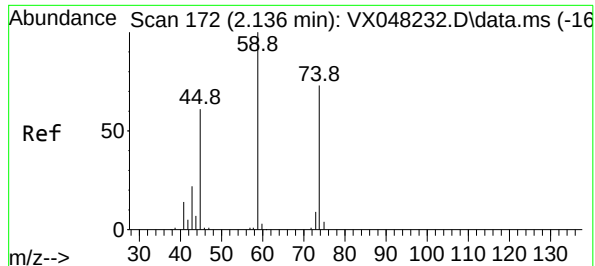
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#7
Trichlorofluoromethane
Concen: 0.738 ug/l
RT: 1.898 min Scan# 133
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:101 Resp: 1819
Ion Ratio Lower Upper
101 100
103 65.8 51.6 77.4



#8
Diethyl Ether

Concen: 0.645 ug/l

RT: 2.142 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 74 Resp: 54

Ion Ratio Lower Upper

74 100

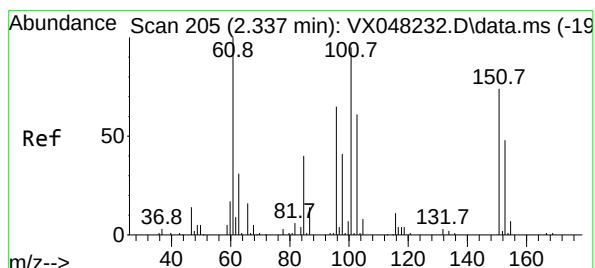
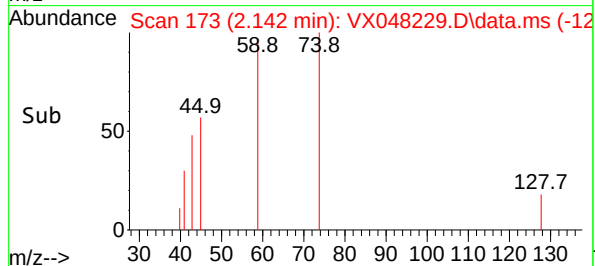
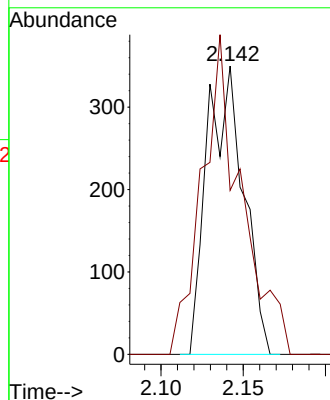
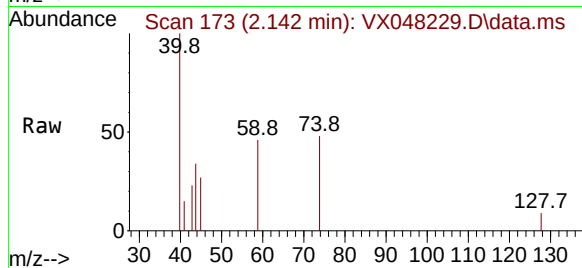
45 118.5 50.0 149.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.864 ug/l

RT: 2.337 min Scan# 205

Delta R.T. 0.000 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

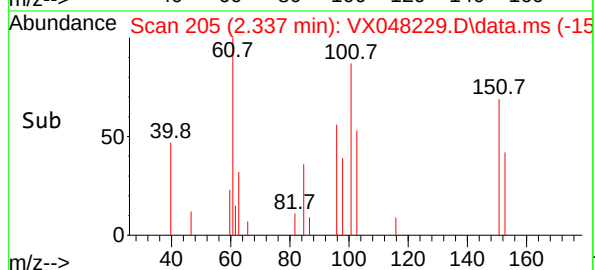
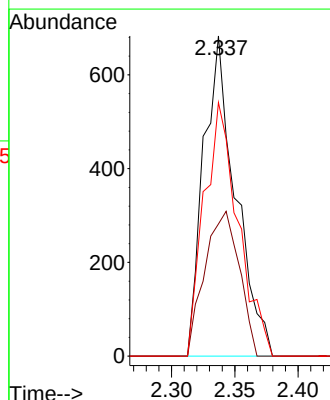
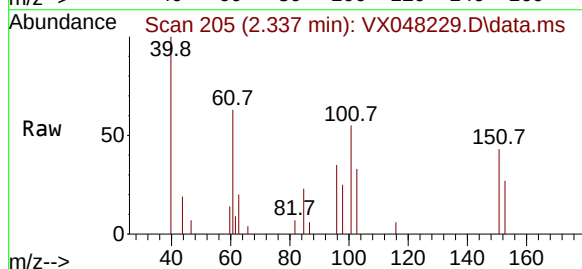
Tgt Ion:101 Resp: 1199

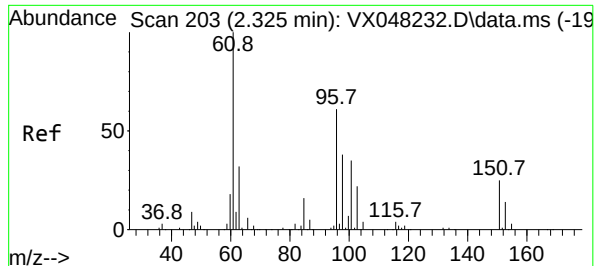
Ion Ratio Lower Upper

101 100

85 48.9 35.6 53.4

151 84.2 58.0 87.0





#12

1,1-Dichloroethene

Concen: 0.889 ug/l

RT: 2.325 min Scan# 203

Delta R.T. 0.000 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 96 Resp: 120

Ion Ratio Lower Upper

96 100

61 154.1 139.0 208.6

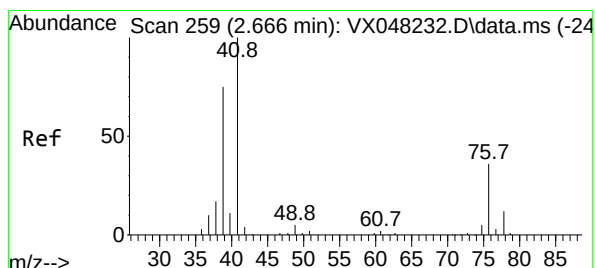
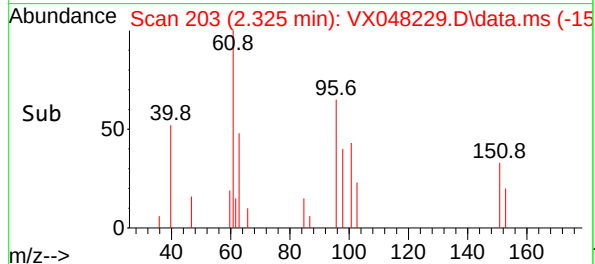
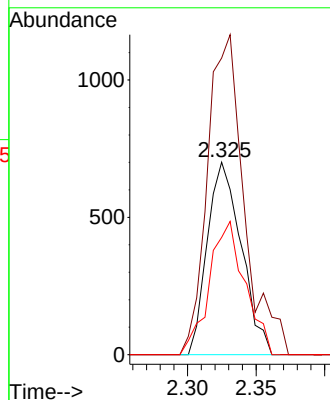
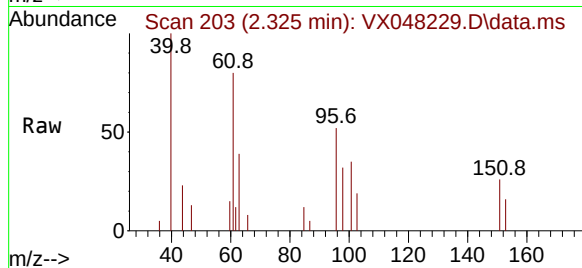
98 60.9 52.4 78.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#14

Allyl chloride

Concen: 0.860 ug/l

RT: 2.666 min Scan# 259

Delta R.T. 0.000 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

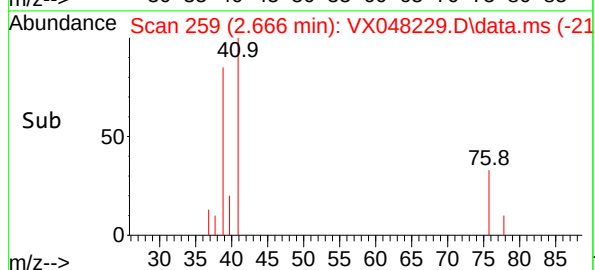
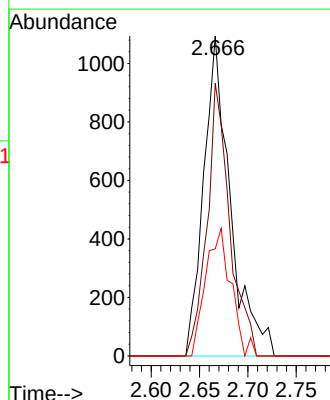
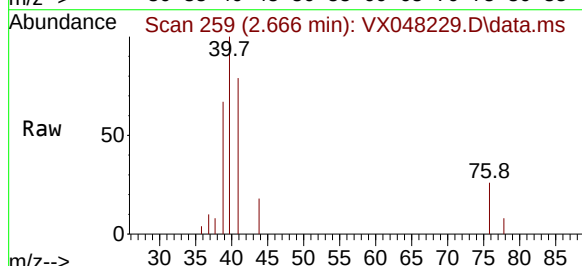
Tgt Ion: 41 Resp: 2101

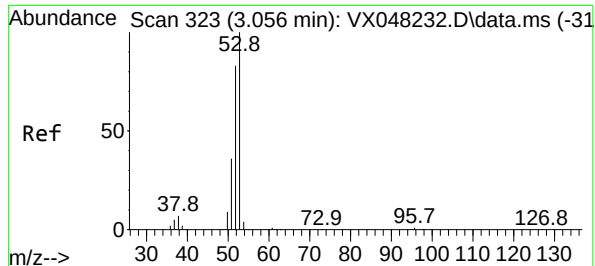
Ion Ratio Lower Upper

41 100

39 72.1 56.0 84.0

76 37.8 27.5 41.3





#15

Acrylonitrile

Concen: 5.171 ug/l

RT: 3.069 min Scan# 31

Delta R.T. 0.012 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

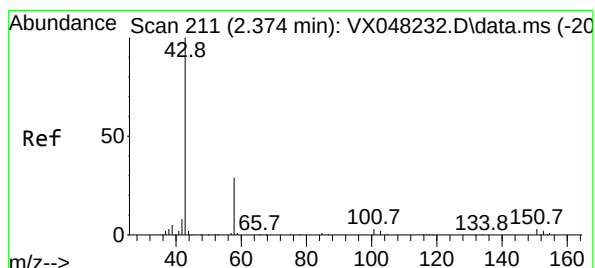
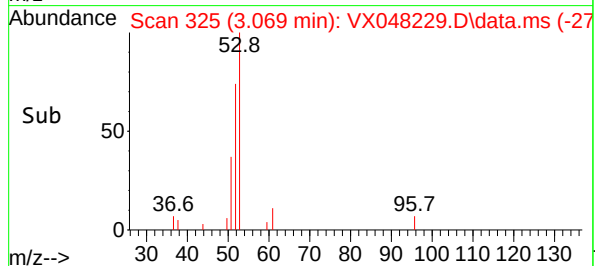
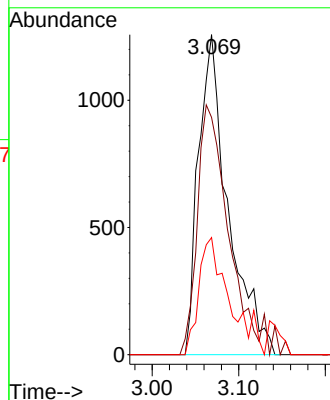
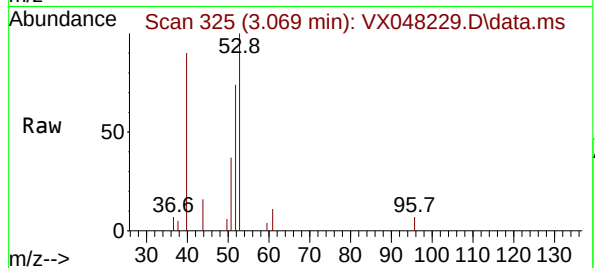
VSTDIC001

Tgt Ion:	53	Resp:	2984
Ion	Ratio	Lower	Upper
53	100		
52	80.3	66.1	99.1
51	37.8	29.0	43.4

Manual Integrations
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Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#16

Acetone

Concen: 5.684 ug/l

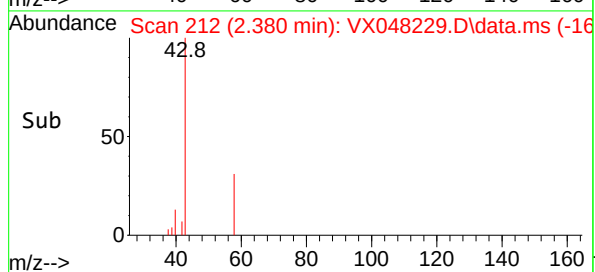
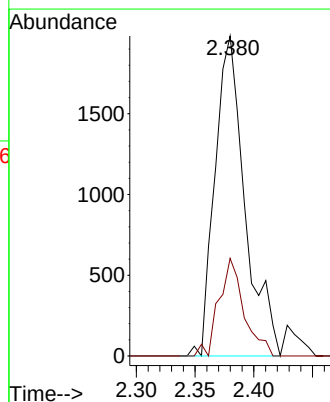
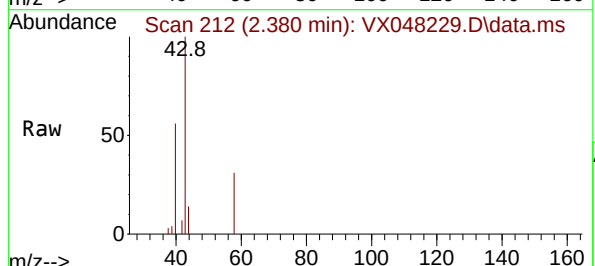
RT: 2.380 min Scan# 212

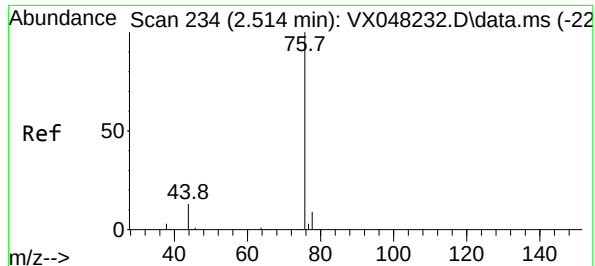
Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Tgt Ion:	43	Resp:	3519
Ion	Ratio	Lower	Upper
43	100		
58	30.5	23.4	35.2





#17

Carbon Disulfide

Concen: 1.141 ug/l

RT: 2.520 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 76 Resp: 476

Ion Ratio Lower Upper

76 100

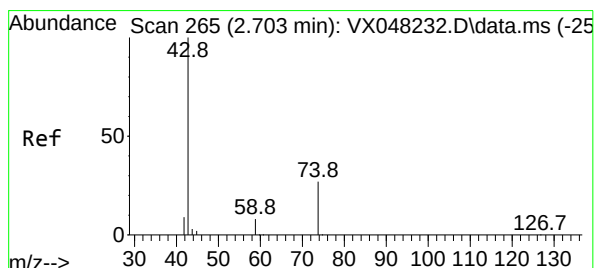
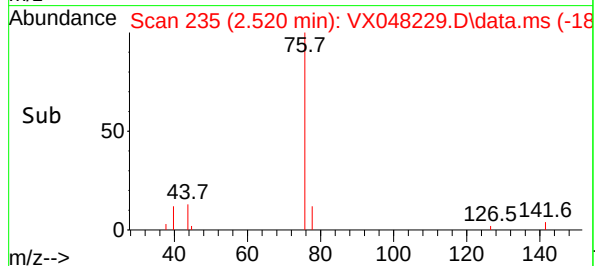
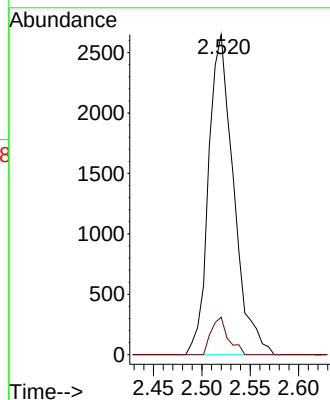
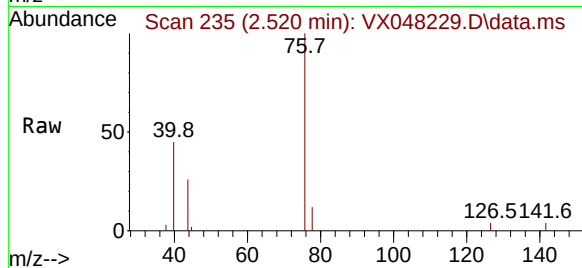
78 11.7 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#18

Methyl Acetate

Concen: 0.955 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.006 min

Lab File: VX048229.D

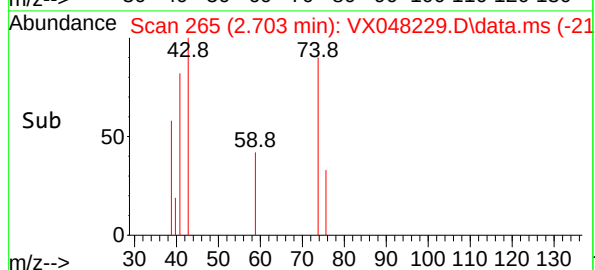
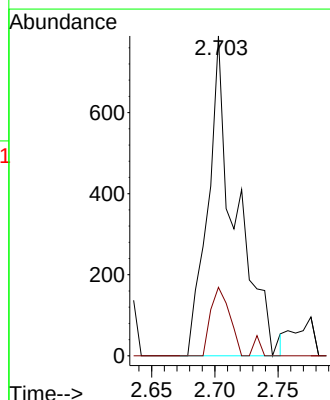
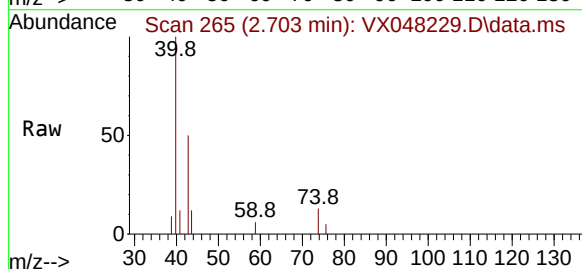
Acq: 20 Oct 2025 10:59

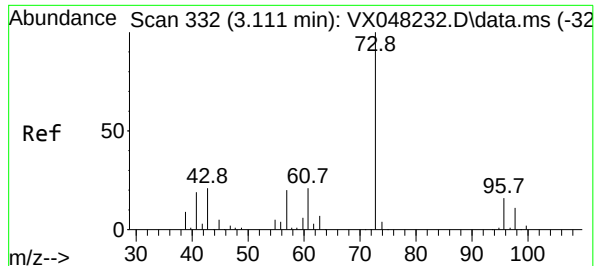
Tgt Ion: 43 Resp: 1204

Ion Ratio Lower Upper

43 100

74 14.6 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 1.085 ug/l

RT: 3.111 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 73 Resp: 443

Ion Ratio Lower Upper

73 100

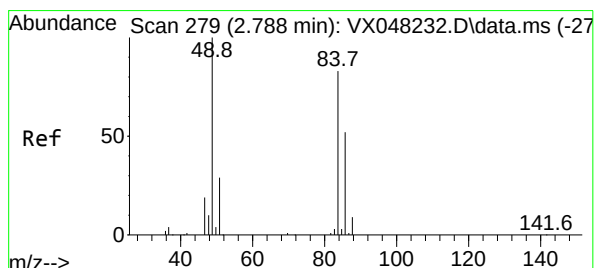
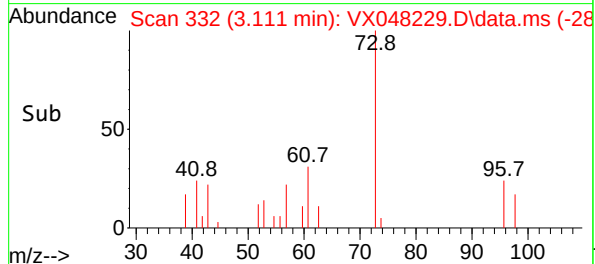
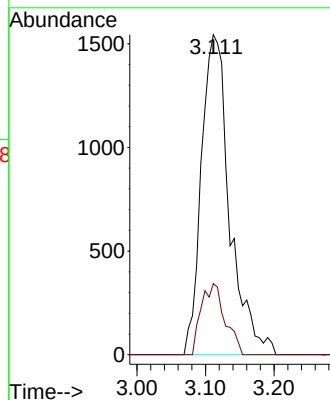
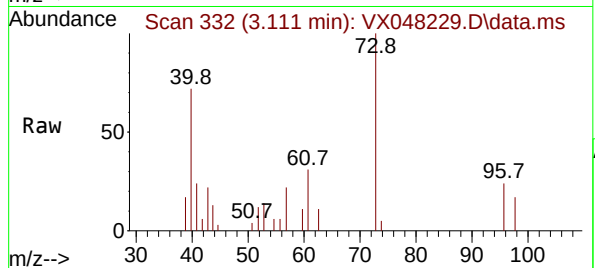
57 22.2 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#20

Methylene Chloride

Concen: 0.863 ug/l

RT: 2.794 min Scan# 280

Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Tgt Ion: 84 Resp: 1301

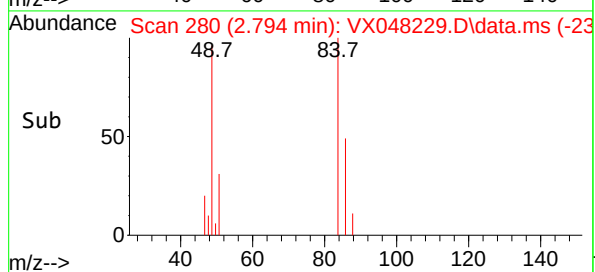
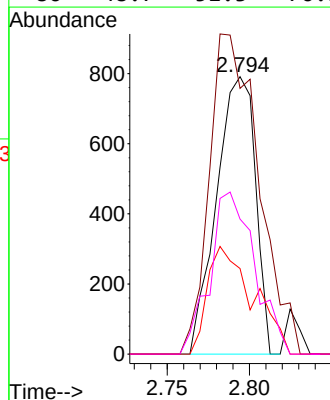
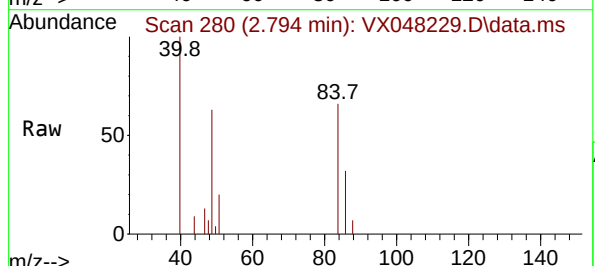
Ion Ratio Lower Upper

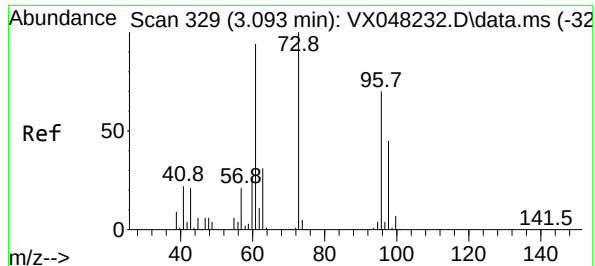
84 100

49 95.8 104.1 156.1#

51 30.8 31.3 46.9#

86 48.7 51.3 76.9#





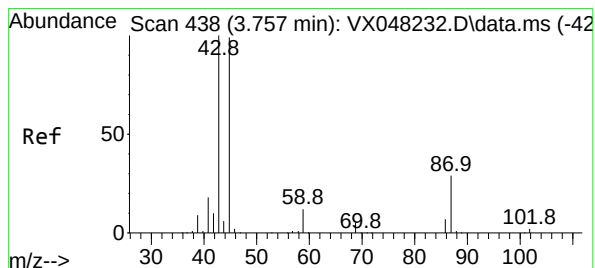
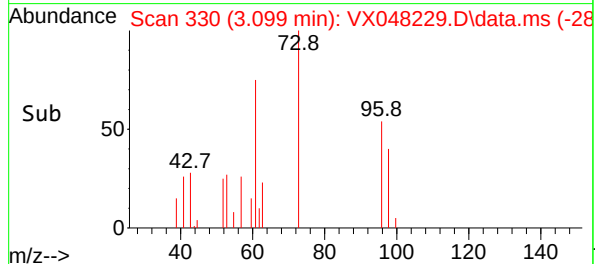
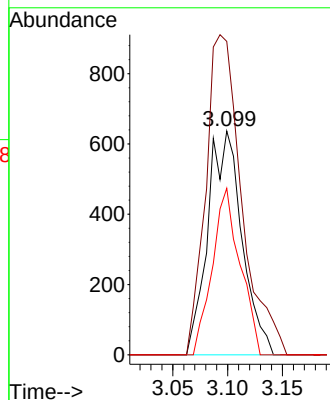
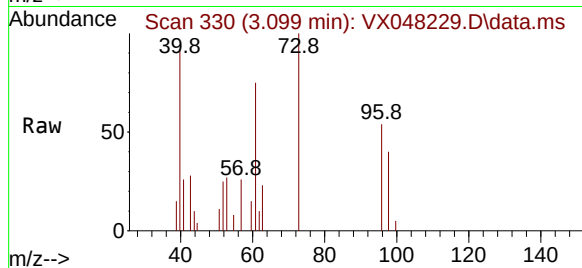
#21
trans-1,2-Dichloroethene
Concen: 0.980 ug/l
RT: 3.099 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 1370
Ion Ratio Lower Upper
96 100
61 140.0 111.9 167.9
98 74.4 51.2 76.8

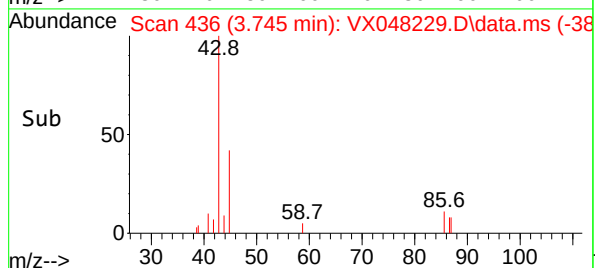
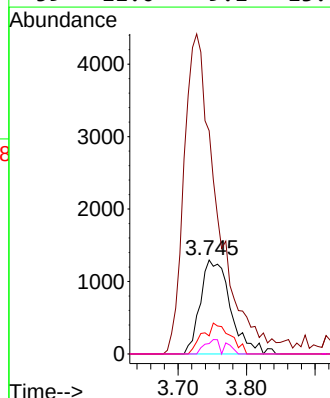
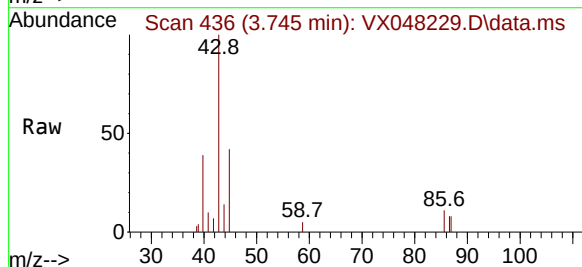
Manual Integrations
APPROVED

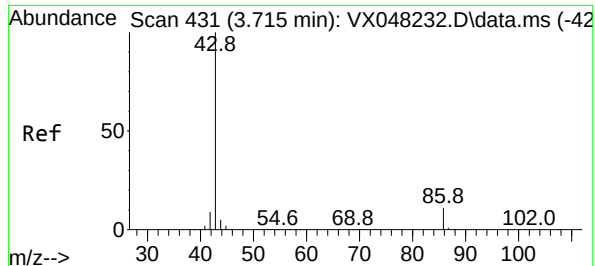
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#22
Diisopropyl ether
Concen: 0.832 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 45 Resp: 3977
Ion Ratio Lower Upper
45 100
43 213.9 89.8 134.8#
87 19.2 20.6 31.0#
59 11.0 9.1 13.7





#23

Vinyl Acetate

Concen: 4.131 ug/l

RT: 3.727 min Scan# 41

Delta R.T. 0.012 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 1476

Ion Ratio Lower Upper

43 100

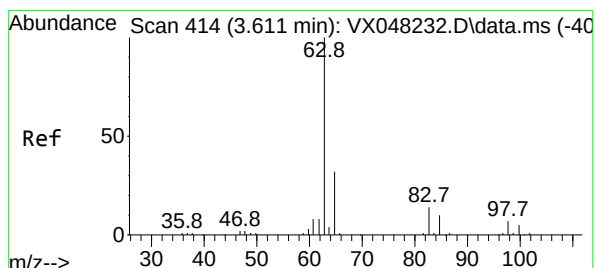
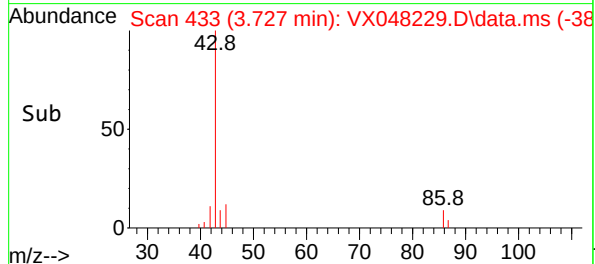
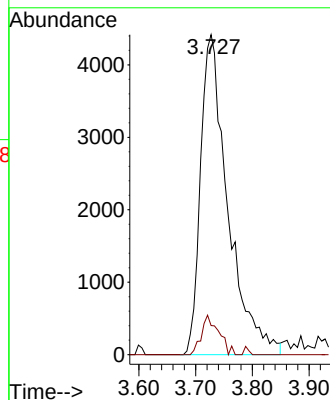
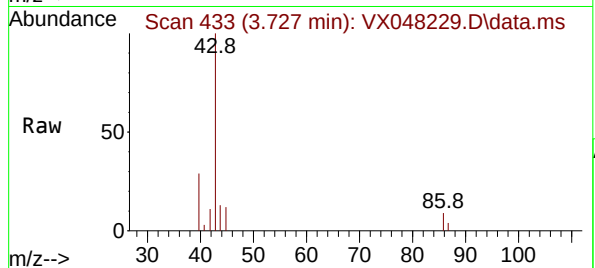
86 11.8 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#24

1,1-Dichloroethane

Concen: 0.964 ug/l

RT: 3.611 min Scan# 414

Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

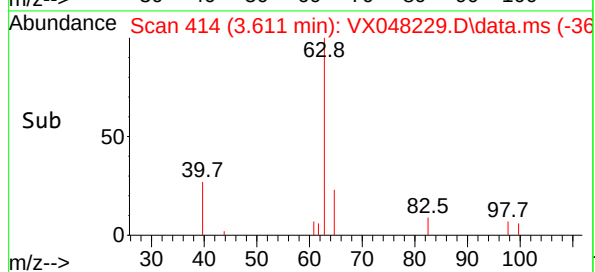
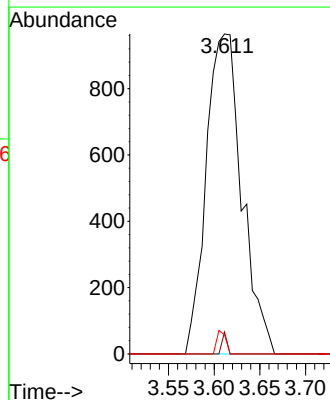
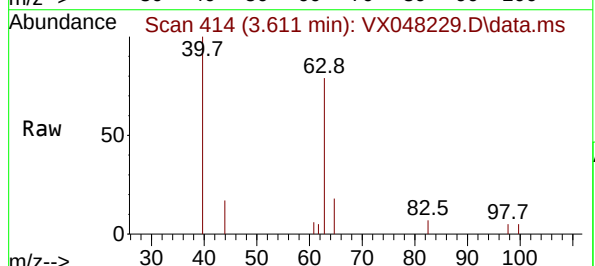
Tgt Ion: 63 Resp: 2615

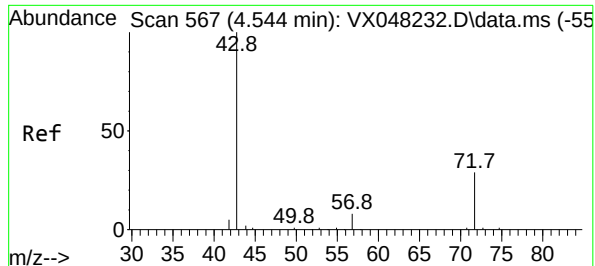
Ion Ratio Lower Upper

63 100

98 6.8 3.5 10.6

100 6.0 2.1 6.3





#25

2-Butanone

Concen: 5.043 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.037 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 363

Ion Ratio Lower Upper

43 100

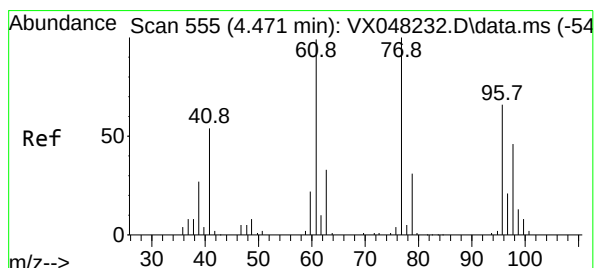
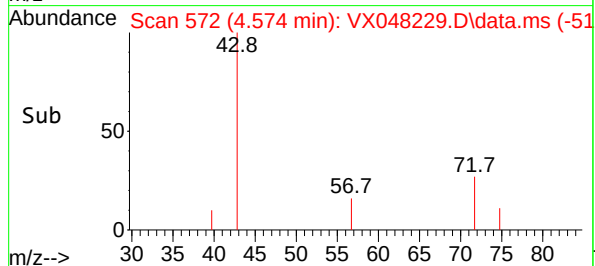
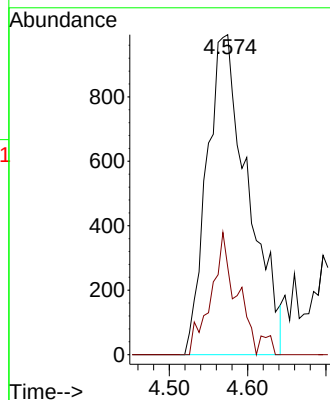
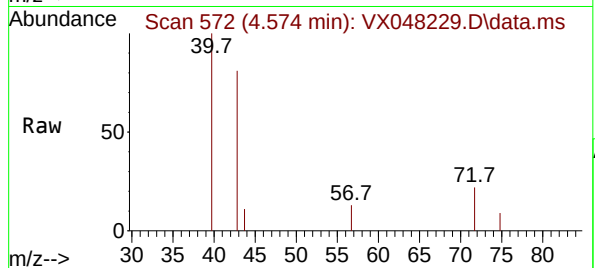
72 24.0 19.9 29.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#26

2,2-Dichloropropane

Concen: 1.012 ug/l

RT: 4.465 min Scan# 554

Delta R.T. 0.000 min

Lab File: VX048229.D

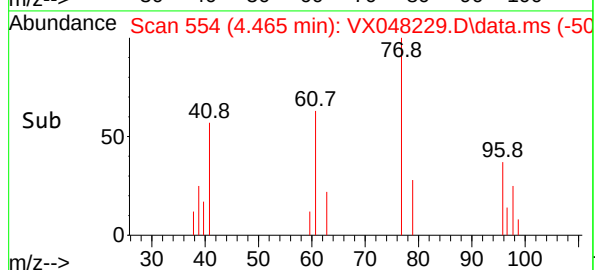
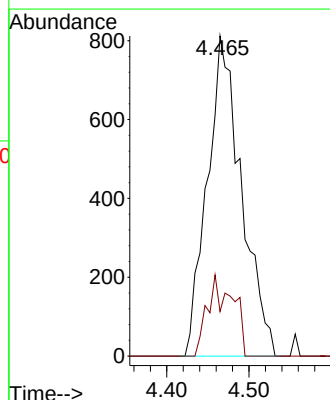
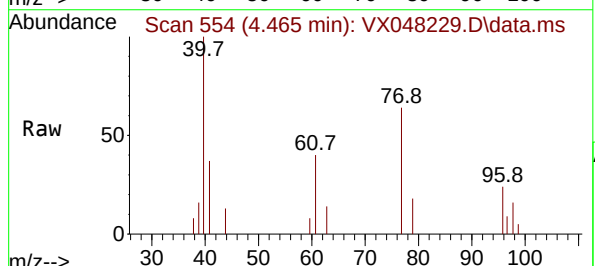
Acq: 20 Oct 2025 10:59

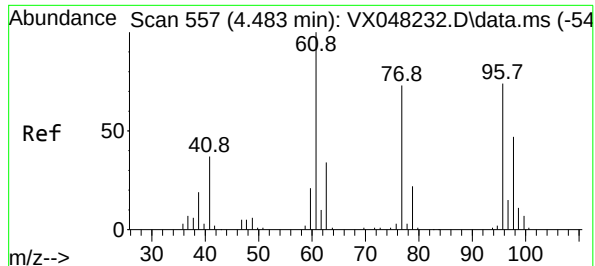
Tgt Ion: 77 Resp: 2347

Ion Ratio Lower Upper

77 100

97 14.3 11.1 33.3





#27

cis-1,2-Dichloroethene

Concen: 0.959 ug/l

RT: 4.489 min Scan# 557

Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

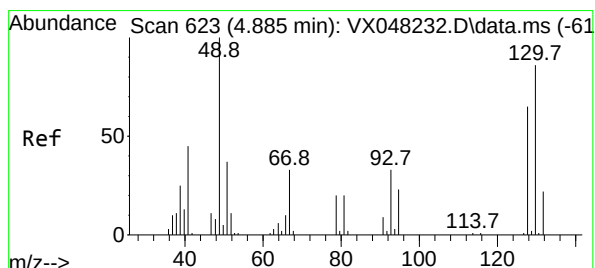
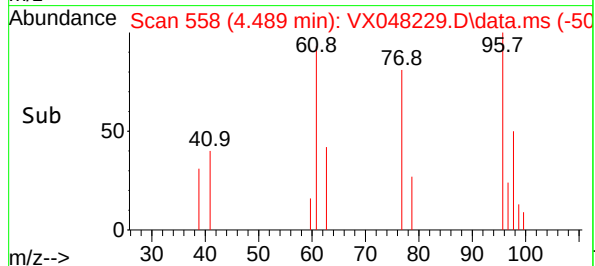
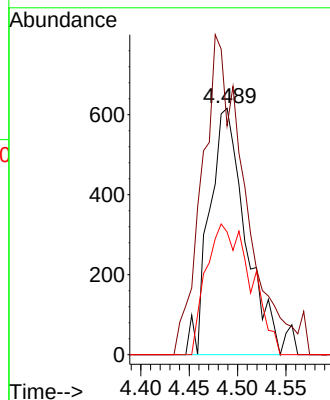
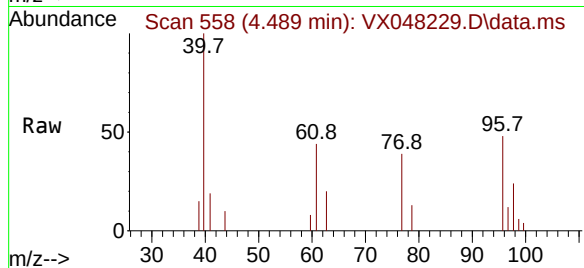
VSTDIC001

Tgt Ion:	96	Resp:	159
Ion	Ratio	Lower	Upper
96	100		
61	156.9	0.0	294.2
98	65.8	0.0	128.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#28

Bromochloromethane

Concen: 0.726 ug/l

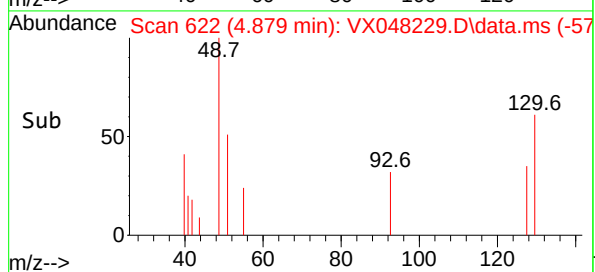
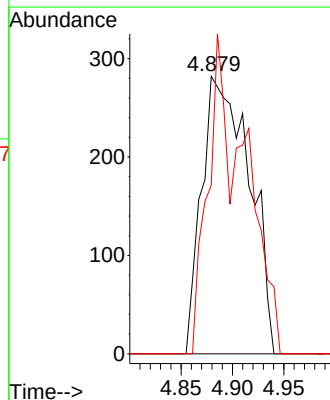
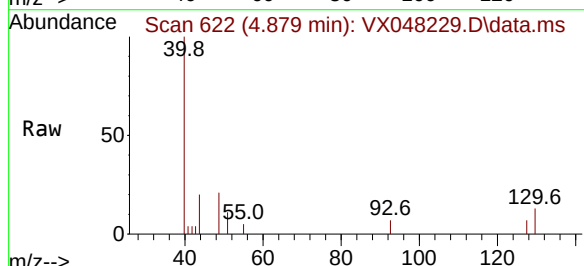
RT: 4.879 min Scan# 622

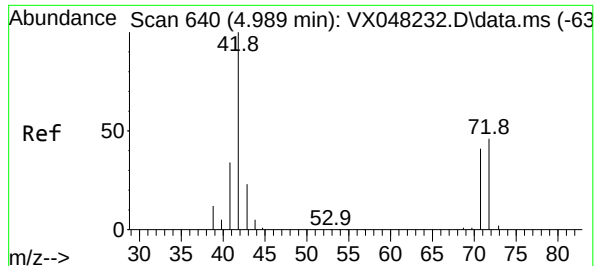
Delta R.T. -0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Tgt Ion:	49	Resp:	908
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	47.0	59.3	88.9#





#29

Tetrahydrofuran

Concen: 4.929 ug/l

RT: 5.007 min Scan# 64

Delta R.T. 0.018 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

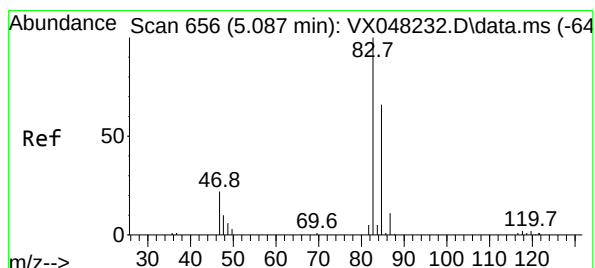
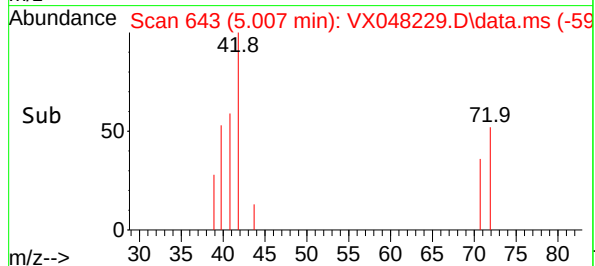
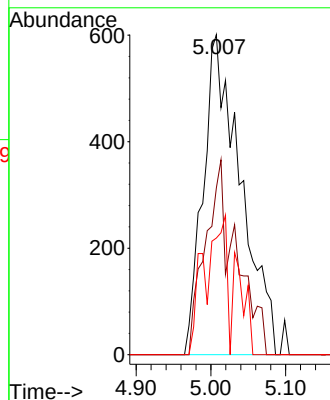
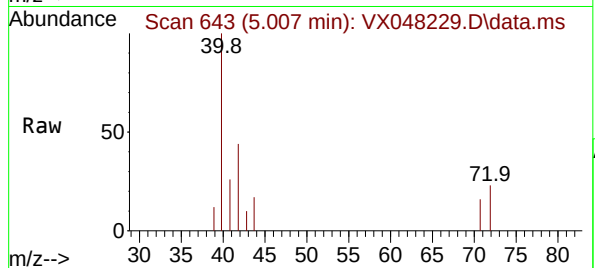
VSTDIC001

Tgt Ion:	42	Resp:	2088
Ion	Ratio	Lower	Upper
42	100		
72	34.1	35.3	52.9
71	16.2	32.2	48.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#30

Chloroform

Concen: 0.941 ug/l

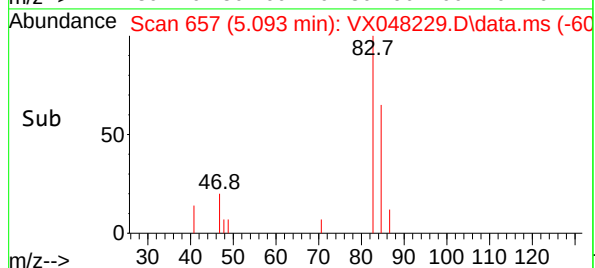
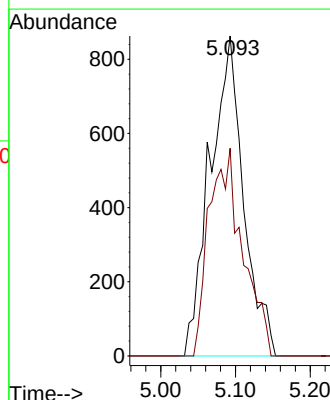
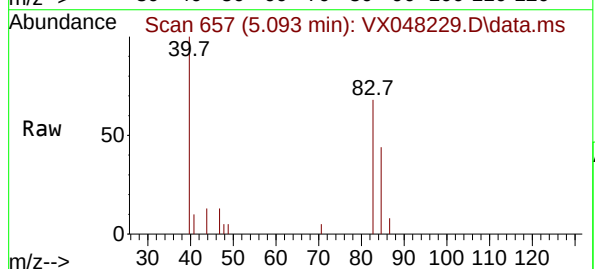
RT: 5.093 min Scan# 657

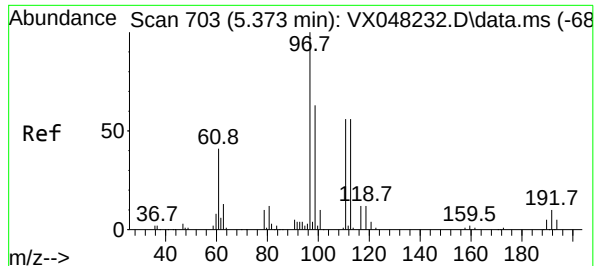
Delta R.T. 0.012 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Tgt Ion:	83	Resp:	2688
Ion	Ratio	Lower	Upper
83	100		
85	64.9	50.1	75.1





#32

1,1,1-Trichloroethane

Concen: 1.048 ug/l

RT: 5.379 min Scan# 703

Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 245

Ion Ratio Lower Upper

97 100

99 0.0 51.7 77.5

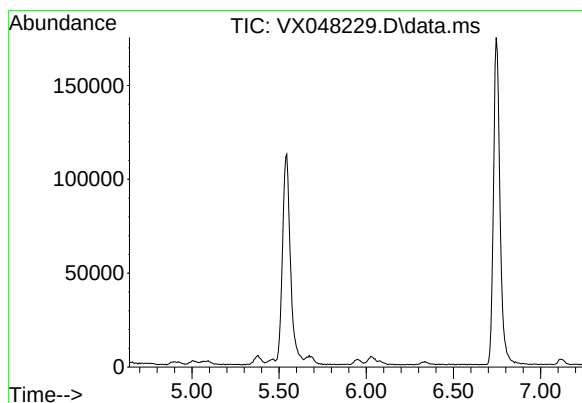
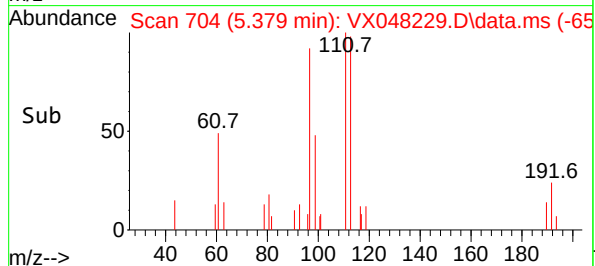
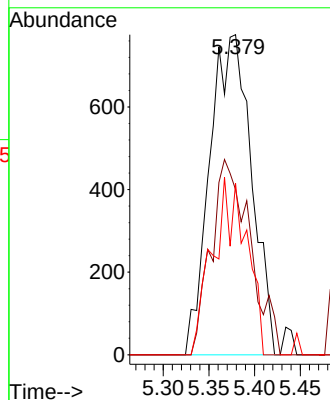
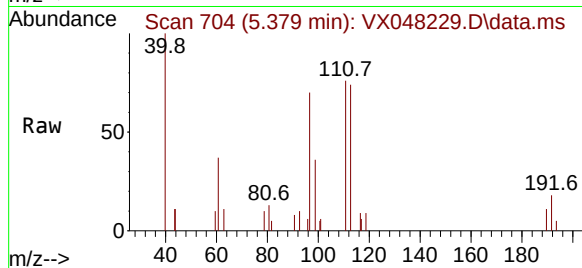
61 44.9 34.8 52.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 5.94 min

Lab File: VX048229.D

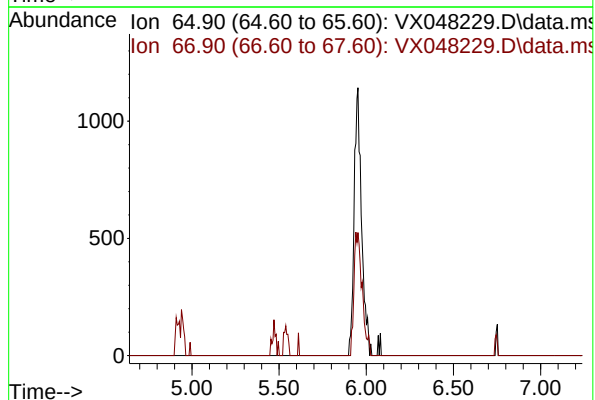
Acq: 20 Oct 2025 10:59

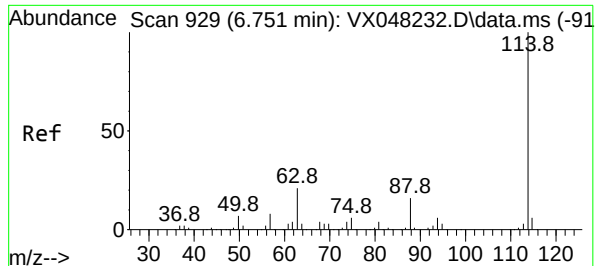
Tgt Ion: 65

Sig Exp Ratio

65 100

67 52.5





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:114 Resp: 19318

Ion Ratio Lower Upper

114 100

63 21.0 0.0 43.2

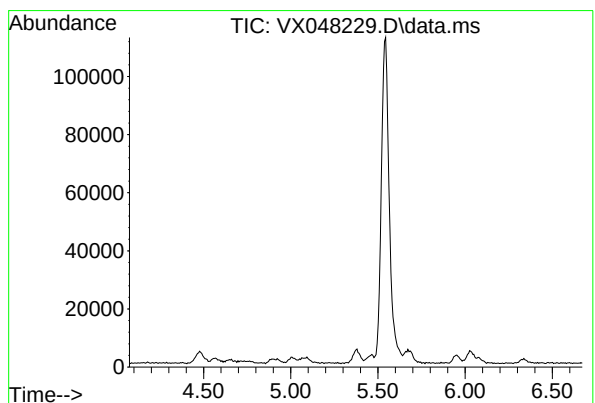
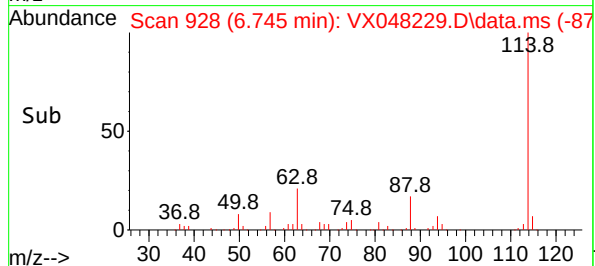
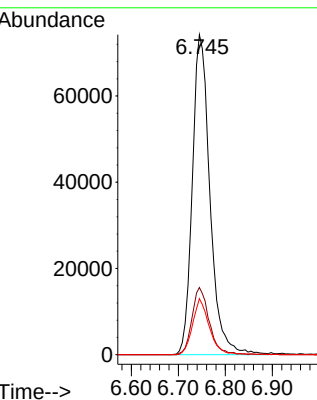
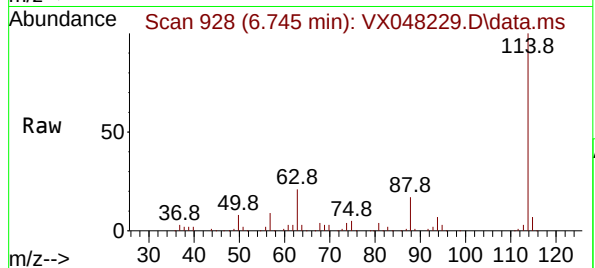
88 17.5 0.0 33.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 5.37 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

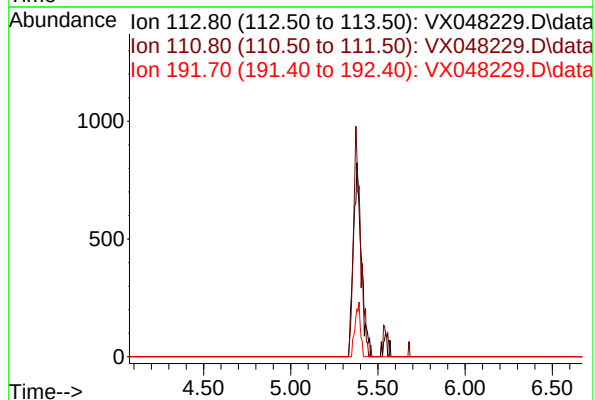
Tgt Ion: 113

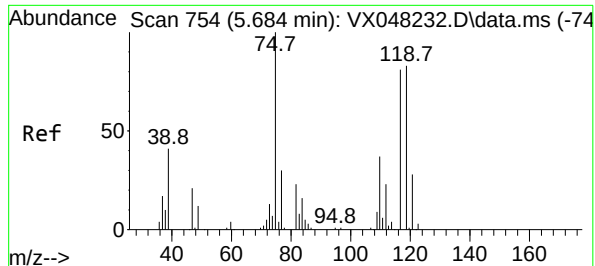
Sig Exp Ratio

113 100

111 102.8

192 18.9





#36

1,1-Dichloropropene

Concen: 1.151 ug/l

RT: 5.696 min Scan# 754

Delta R.T. 0.012 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

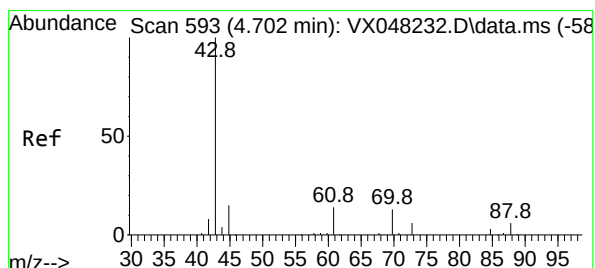
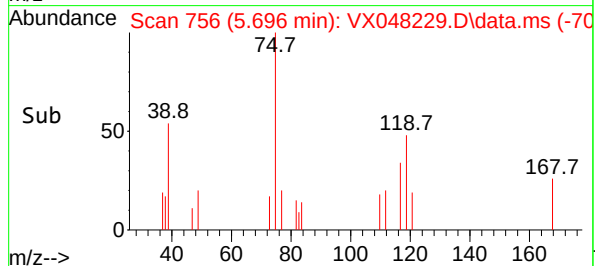
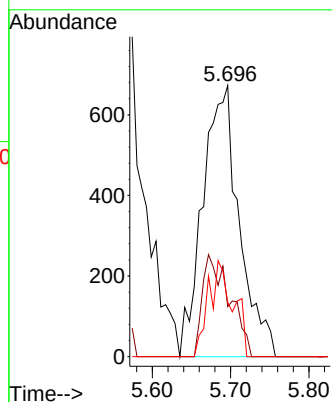
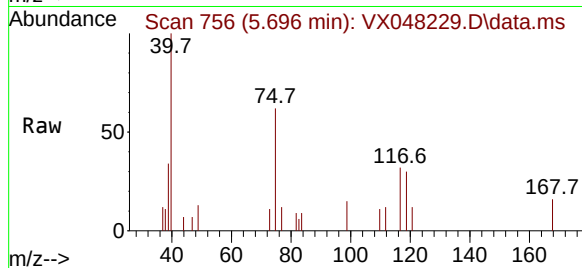
Tgt Ion:	75	Resp:	217
Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.7	53.1
77	23.9	24.3	36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#37

Ethyl Acetate

Concen: 1.174 ug/l m

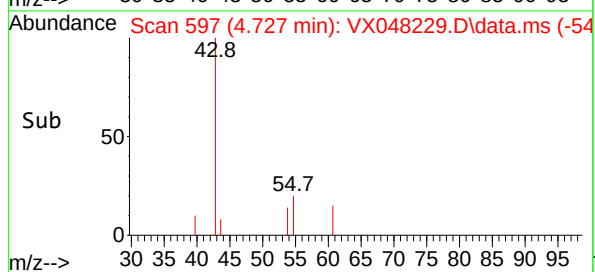
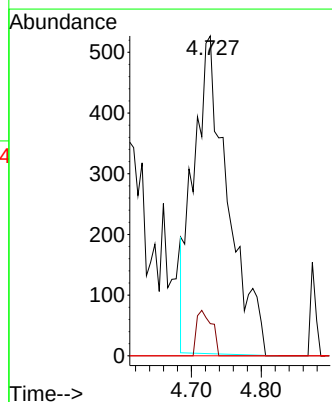
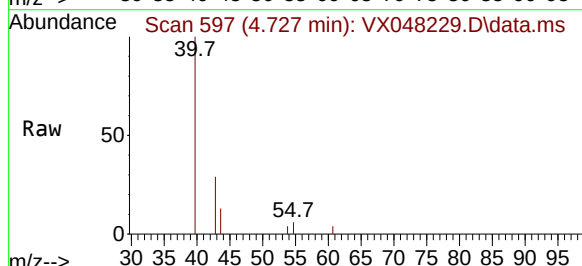
RT: 4.727 min Scan# 597

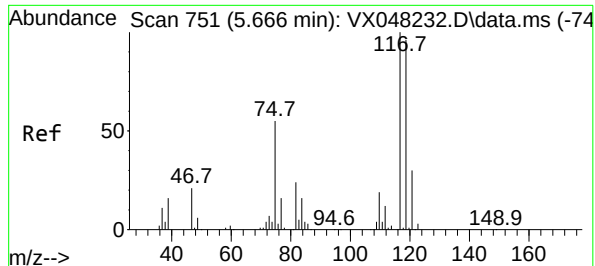
Delta R.T. 0.031 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Tgt Ion:	43	Resp:	1772
Ion	Ratio	Lower	Upper
43	100		
61	6.4	10.6	15.8
70	0.0	7.8	11.6





#38

Carbon Tetrachloride

Concen: 1.159 ug/l m

RT: 5.672 min Scan# 751

Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

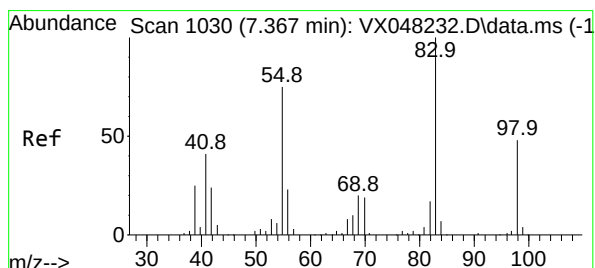
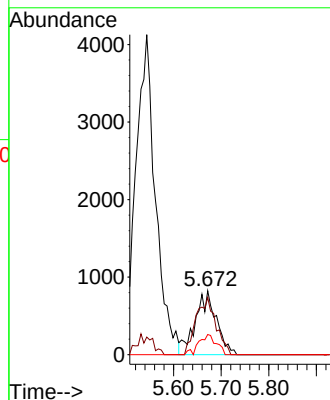
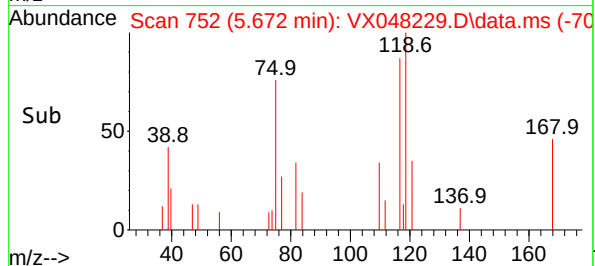
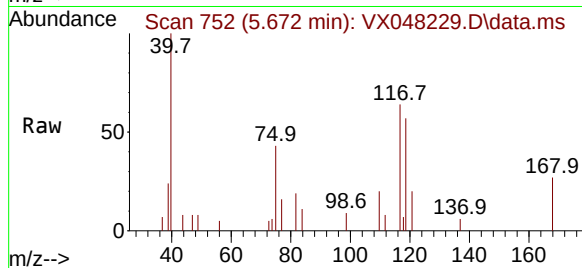
VSTDIC001

Tgt Ion:	117	Resp:	251
Ion	Ratio	Lower	Upper
117	100		
119	89.4	77.2	115.8
121	31.5	24.8	37.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#39

Methylcyclohexane

Concen: 0.999 ug/l

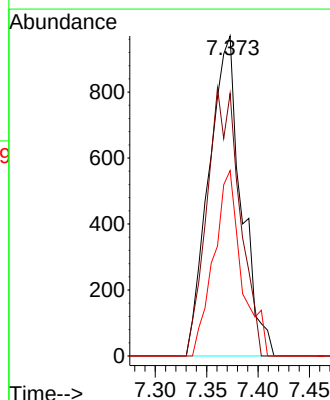
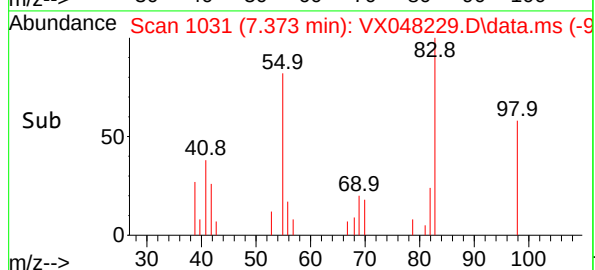
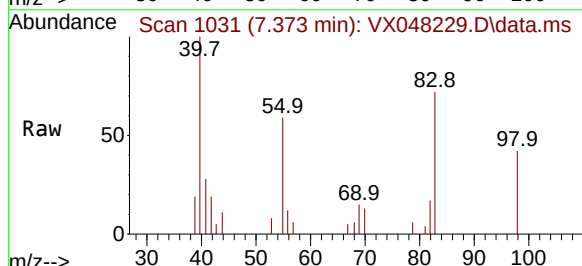
RT: 7.373 min Scan# 1031

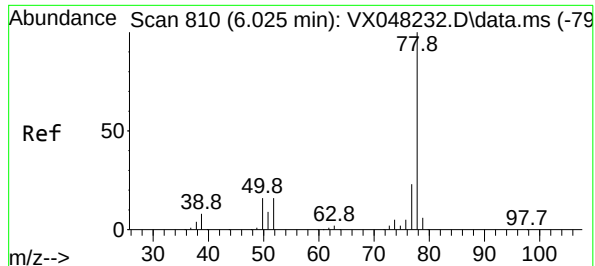
Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Tgt Ion:	83	Resp:	2128
Ion	Ratio	Lower	Upper
83	100		
55	82.1	66.2	99.2
98	57.9	38.9	58.3





#40

Benzene

Concen: 1.028 ug/l

RT: 6.032 min Scan# 810

Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 78 Resp: 576

Ion Ratio Lower Upper

78 100

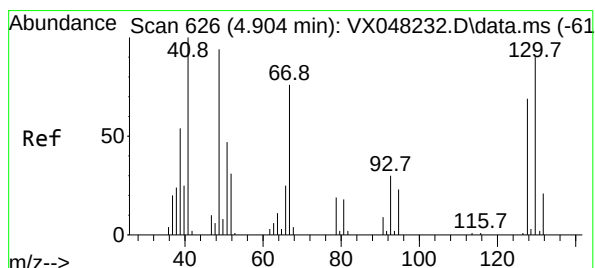
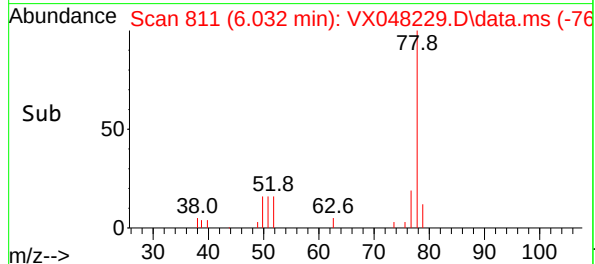
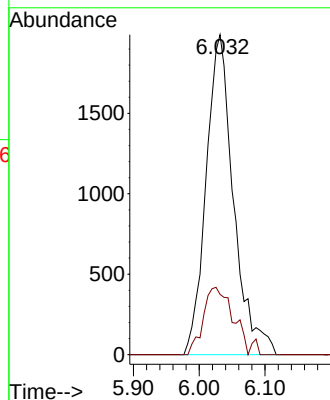
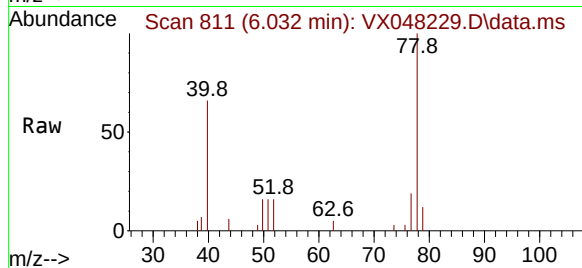
77 18.9 19.3 28.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#41

Methacrylonitrile

Concen: 0.917 ug/l m

RT: 4.916 min Scan# 628

Delta R.T. 0.012 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Tgt Ion: 41 Resp: 741

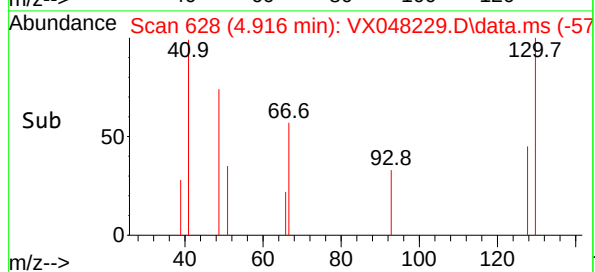
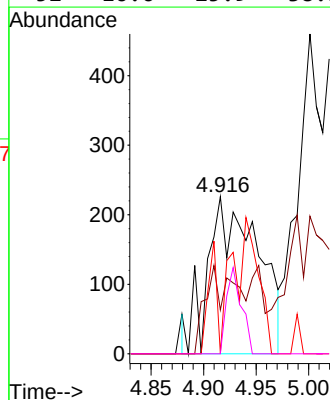
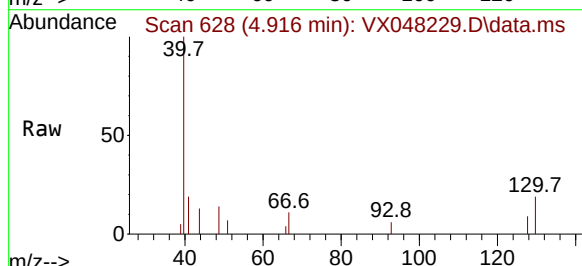
Ion Ratio Lower Upper

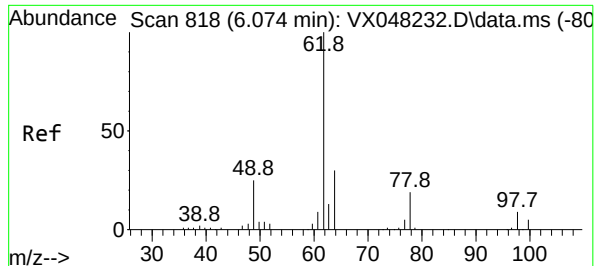
41 100

39 17.0 44.0 66.0#

67 12.3 58.7 88.1#

52 16.6 25.9 38.9#





#42

1,2-Dichloroethane

Concen: 1.017 ug/l

RT: 6.080 min Scan# 81

Delta R.T. 0.012 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

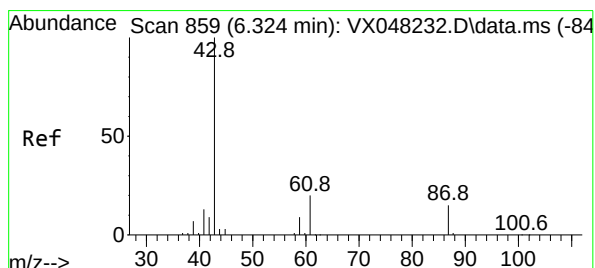
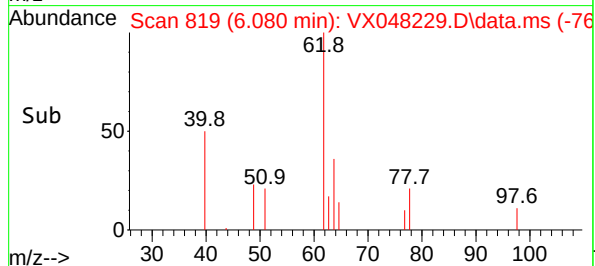
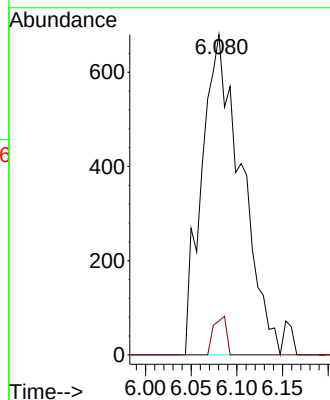
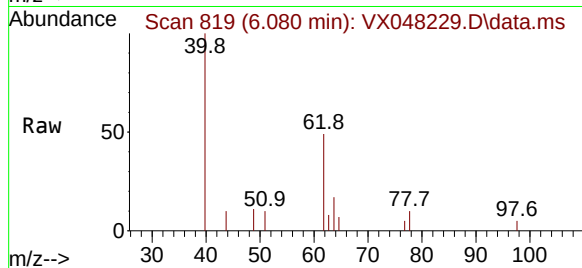
ClientSampleId :

VSTDIC001

Tgt Ion: 62 Resp: 2044
Ion Ratio Lower Upper
62 100
98 3.9 0.0 17.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#43

Isopropyl Acetate

Concen: 1.006 ug/l

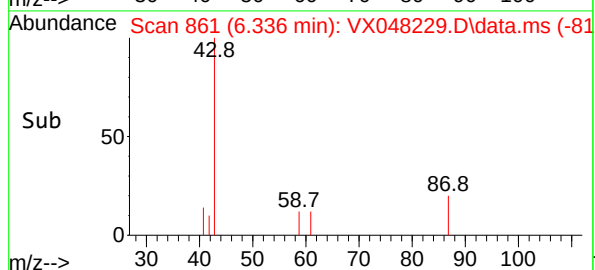
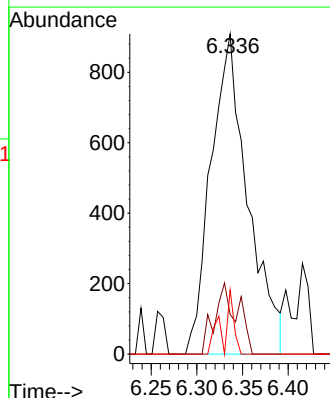
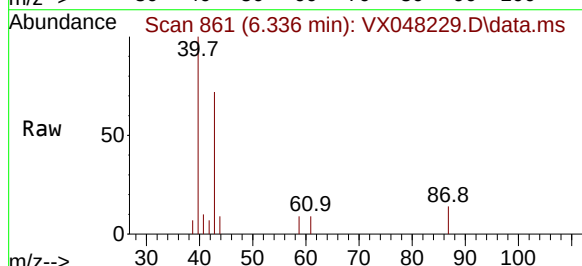
RT: 6.336 min Scan# 861

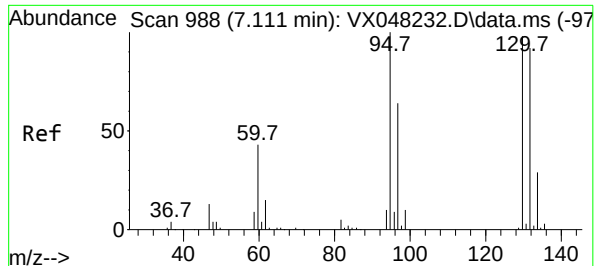
Delta R.T. 0.012 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Tgt Ion: 43 Resp: 2548
Ion Ratio Lower Upper
43 100
61 13.8 14.9 22.3#
87 3.4 9.4 14.2#





#44

Trichloroethene

Concen: 1.094 ug/l

RT: 7.117 min Scan# 91

Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:130 Resp: 154

Ion Ratio Lower Upper

130 100

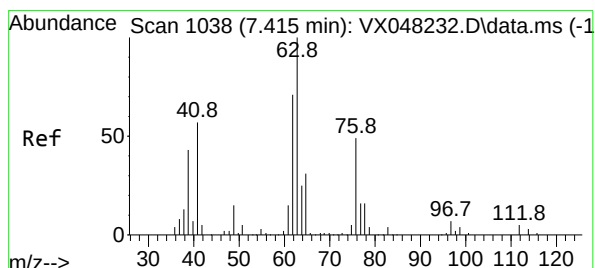
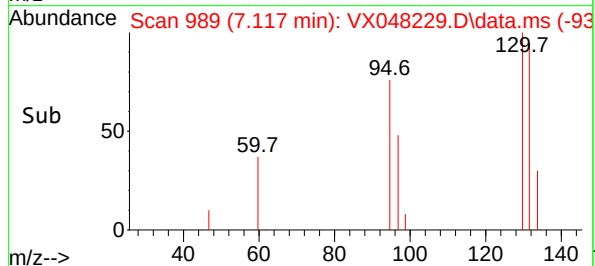
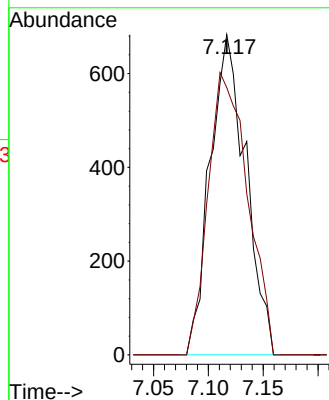
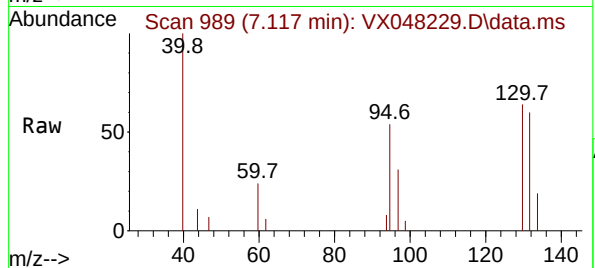
95 83.5 0.0 200.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#45

1,2-Dichloropropane

Concen: 0.842 ug/l

RT: 7.422 min Scan# 1039

Delta R.T. 0.006 min

Lab File: VX048229.D

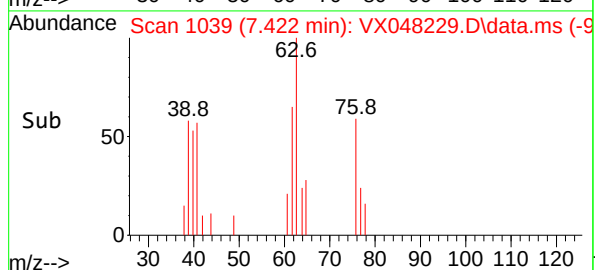
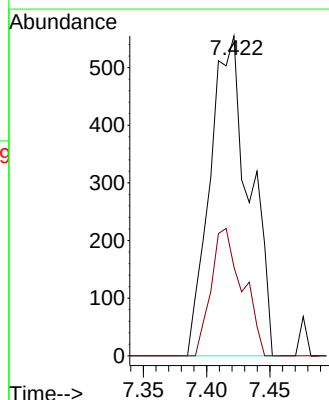
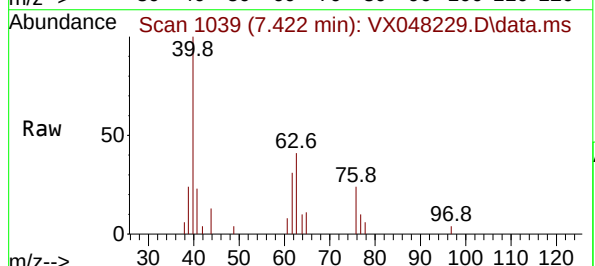
Acq: 20 Oct 2025 10:59

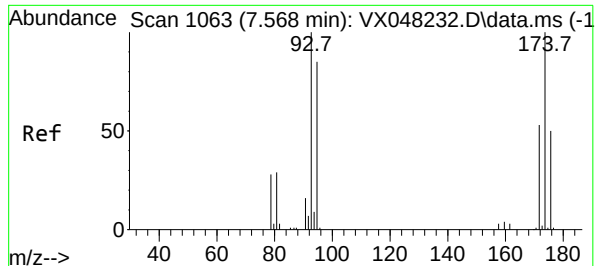
Tgt Ion: 63 Resp: 1195

Ion Ratio Lower Upper

63 100

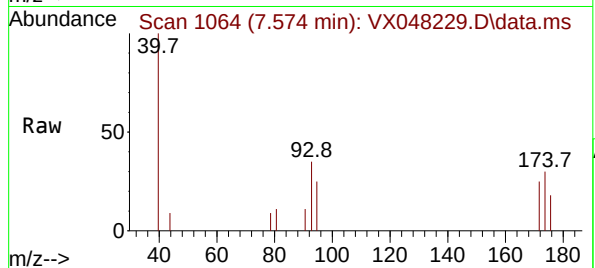
65 27.7 24.1 36.1





#46
Dibromomethane
Concen: 1.011 ug/l
RT: 7.574 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

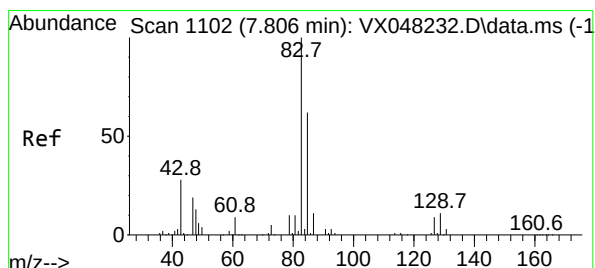
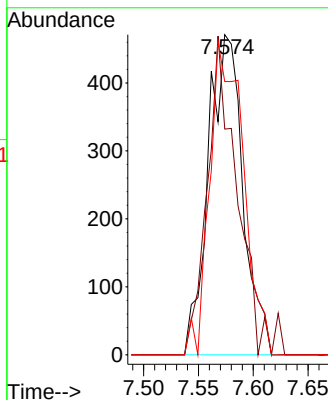
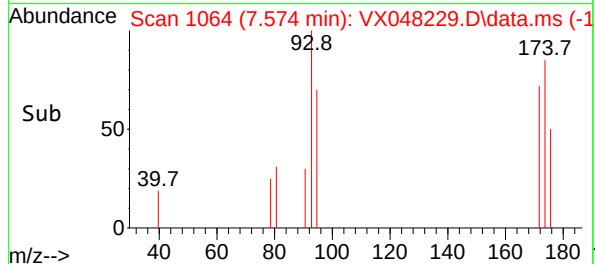
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 93 Resp: 103
Ion Ratio Lower Upper
93 100
95 86.4 65.9 98.9
174 95.3 71.7 107.5

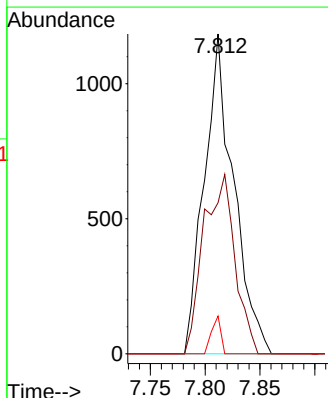
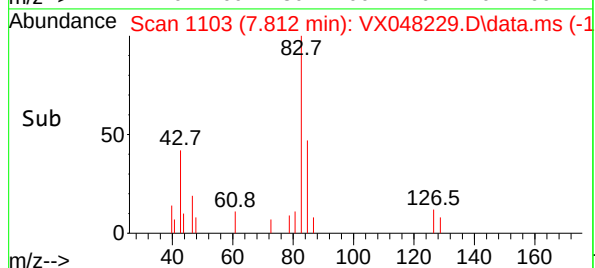
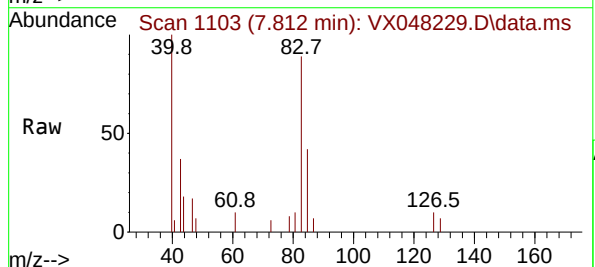
Manual Integrations
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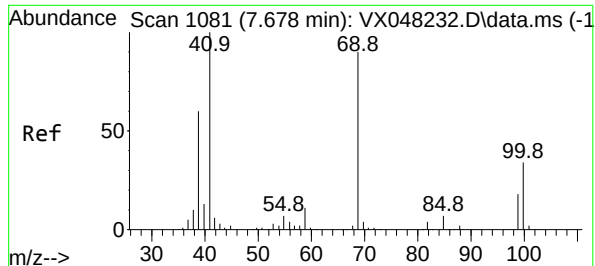
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#47
Bromodichloromethane
Concen: 0.999 ug/l
RT: 7.812 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

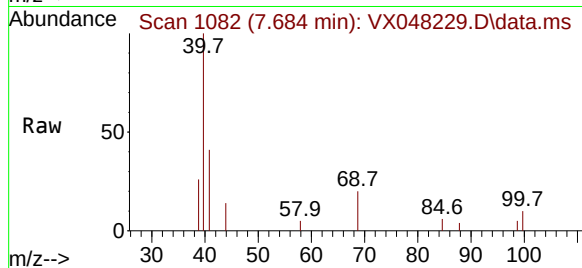
Tgt Ion: 83 Resp: 2204
Ion Ratio Lower Upper
83 100
85 47.2 52.2 78.4#
127 11.8 7.3 10.9#





#48
Methyl methacrylate
Concen: 0.989 ug/l
RT: 7.684 min Scan# 1082
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

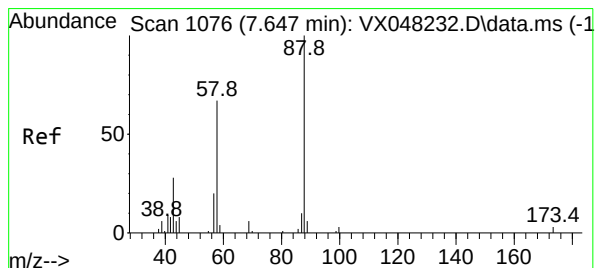
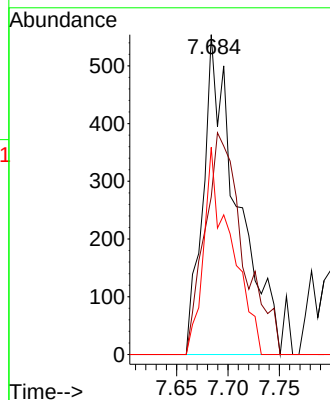
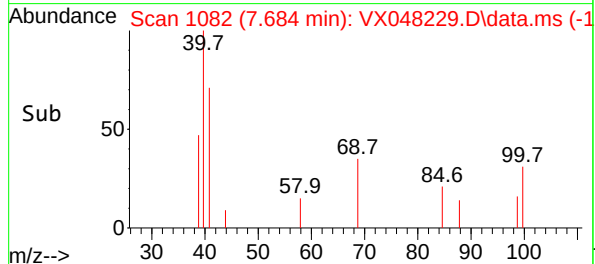
Instrument :
MSVOA_X
Client Sample Id :
VSTDICC001



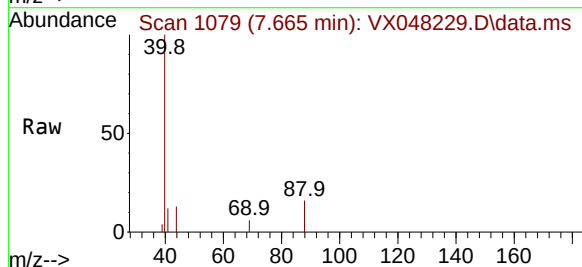
Tgt Ion: 41 Resp: 128
Ion Ratio Lower Upper
41 100
69 77.6 63.4 95.0
39 51.7 47.1 70.7

Manual Integrations
APPROVED

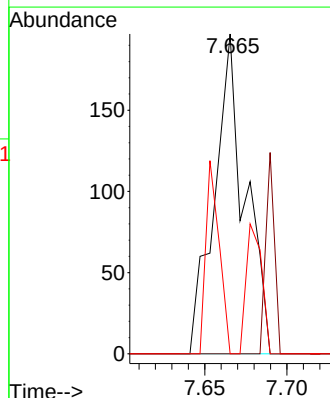
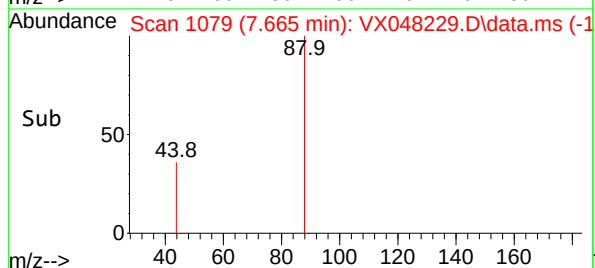
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

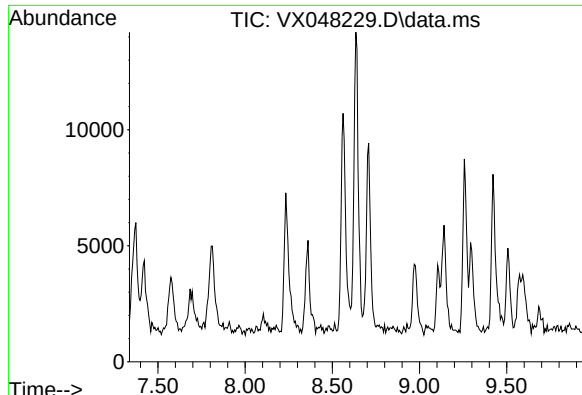


#49
1,4-Dioxane
Concen: 21.840 ug/l
RT: 7.665 min Scan# 1079
Delta R.T. 0.024 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59



Tgt Ion: 88 Resp: 255
Ion Ratio Lower Upper
88 100
43 0.0 35.0 52.4#
58 20.8 61.9 92.9#





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

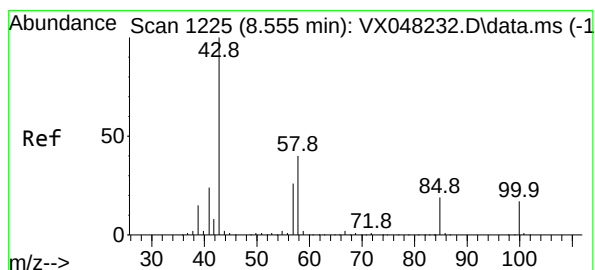
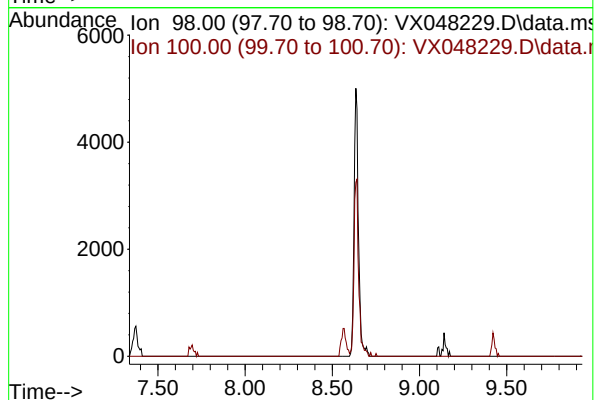
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 98
Sig Exp Ratio
98 100
100 66.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

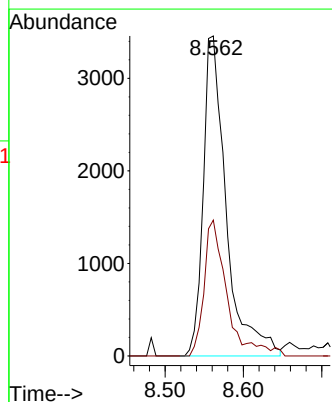
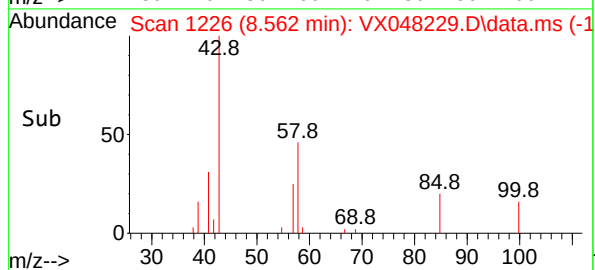
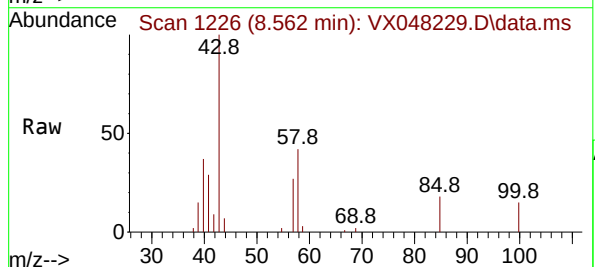
Manual Integrations
APPROVED

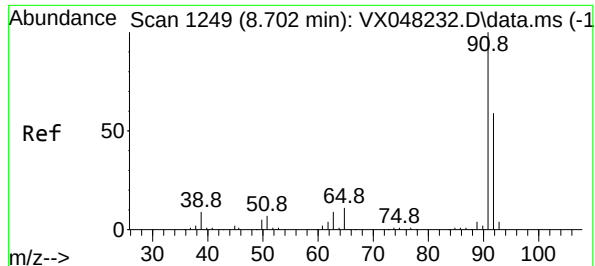
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#51
4-Methyl-2-Pentanone
Concen: 5.011 ug/l
RT: 8.562 min Scan# 1226
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 43 Resp: 7066
Ion Ratio Lower Upper
43 100
58 42.1 29.5 44.3





#52

Toluene

Concen: 1.010 ug/l

RT: 8.708 min Scan# 1250

Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 92 Resp: 340

Ion Ratio Lower Upper

92 100

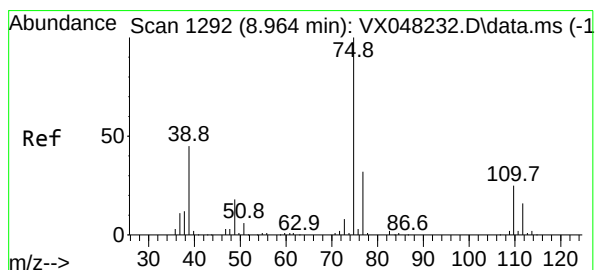
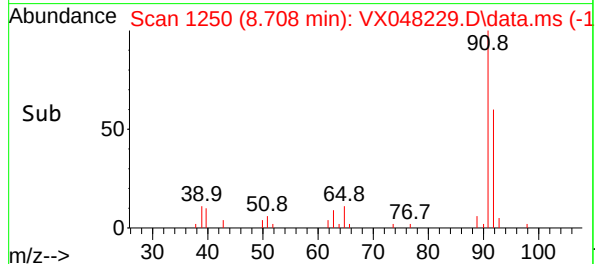
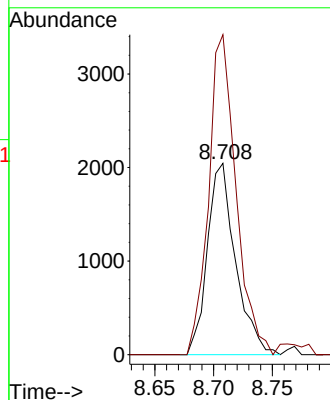
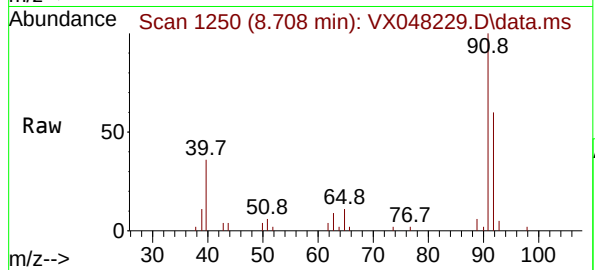
91 162.8 136.1 204.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#53

t-1,3-Dichloropropene

Concen: 0.892 ug/l

RT: 8.970 min Scan# 1293

Delta R.T. 0.006 min

Lab File: VX048229.D

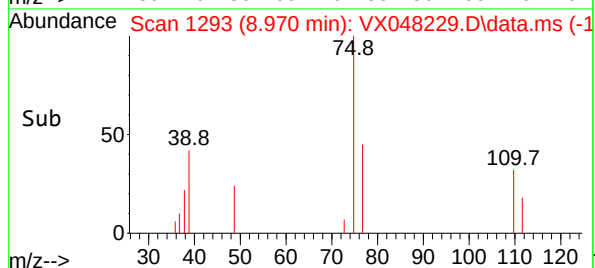
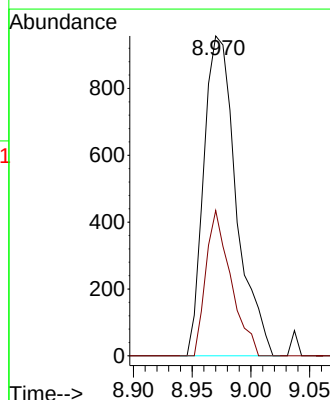
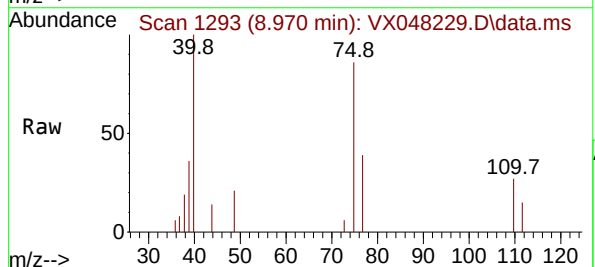
Acq: 20 Oct 2025 10:59

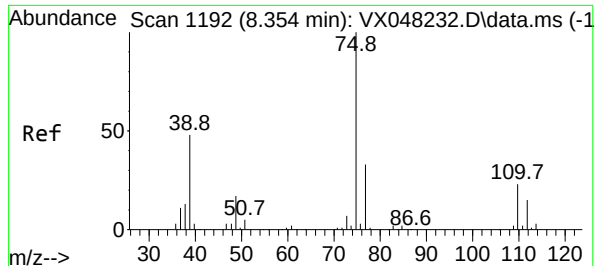
Tgt Ion: 75 Resp: 1844

Ion Ratio Lower Upper

75 100

77 45.5 25.0 37.6#





#54

cis-1,3-Dichloropropene

Concen: 0.998 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. 0.012 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

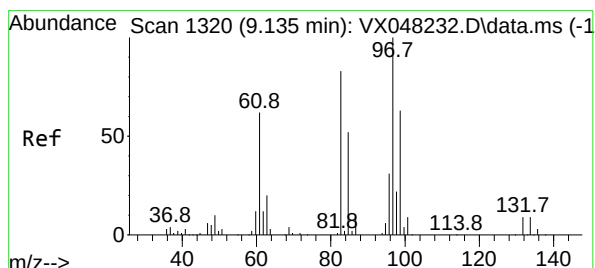
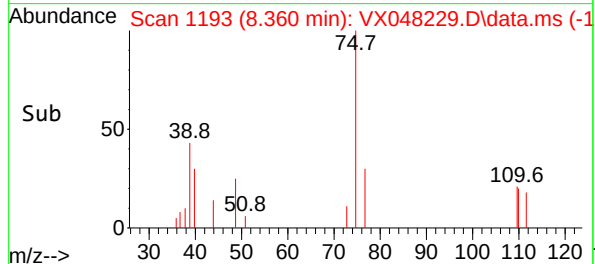
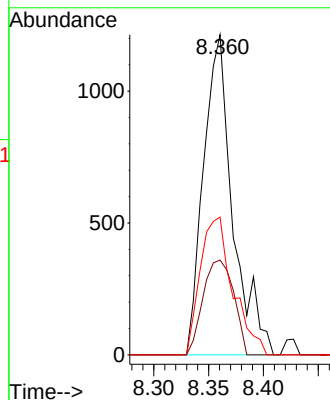
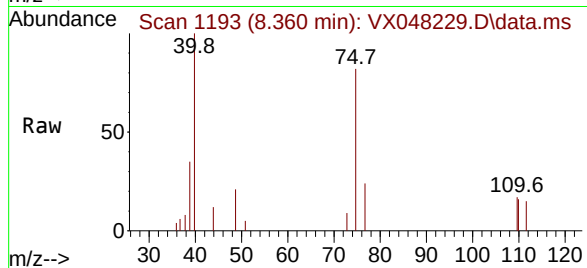
Tgt Ion:	75	Resp:	2250
Ion	Ratio	Lower	Upper
75	100		
77	29.6	24.9	37.3
39	43.0	42.6	64.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#55

1,1,2-Trichloroethane

Concen: 0.977 ug/l

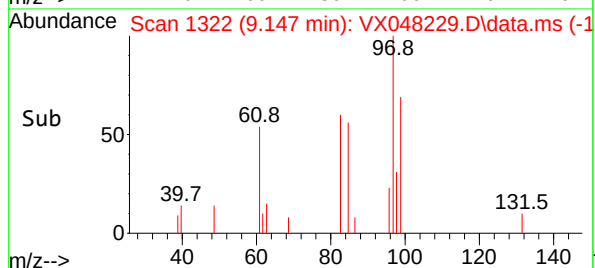
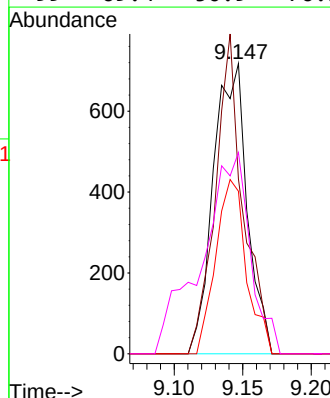
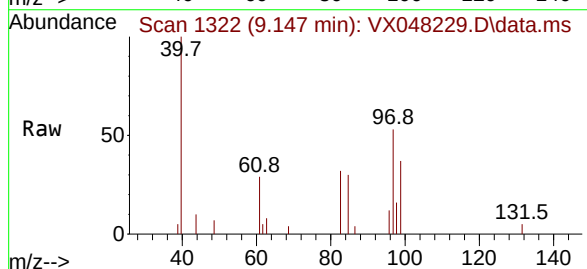
RT: 9.147 min Scan# 1322

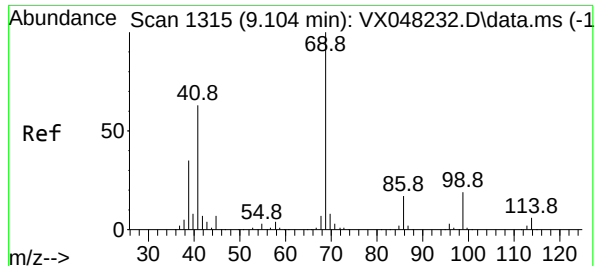
Delta R.T. 0.012 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Tgt Ion:	97	Resp:	1229
Ion	Ratio	Lower	Upper
97	100		
83	60.2	70.6	105.8
85	56.0	45.0	67.6
99	69.4	50.9	76.3





#56

Ethyl methacrylate

Concen: 0.945 ug/l

RT: 9.104 min Scan# 1315

Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

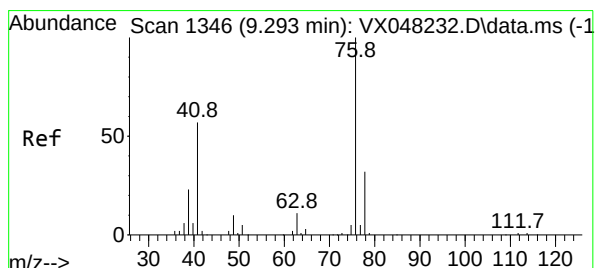
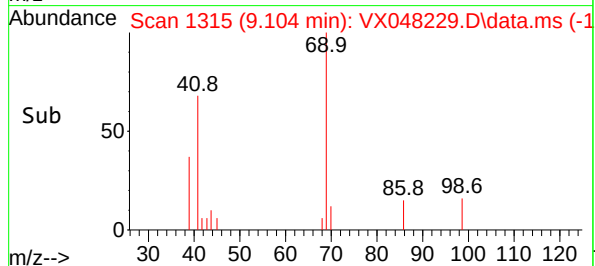
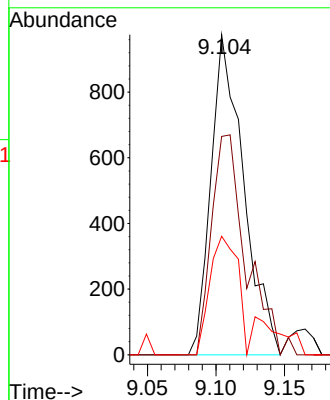
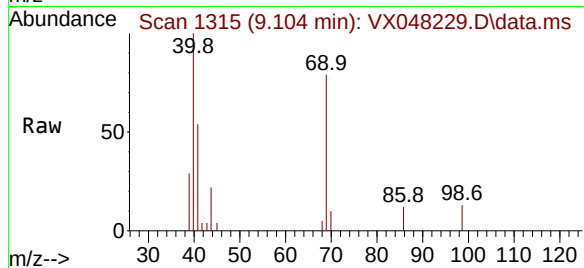
VSTDICC001

Tgt Ion:	69	Resp:	1610
Ion	Ratio	Lower	Upper
69	100		
41	73.0	56.0	84.0
39	36.5	31.6	47.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#57

1,3-Dichloropropane

Concen: 0.989 ug/l

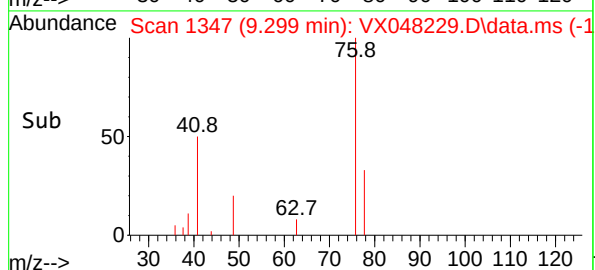
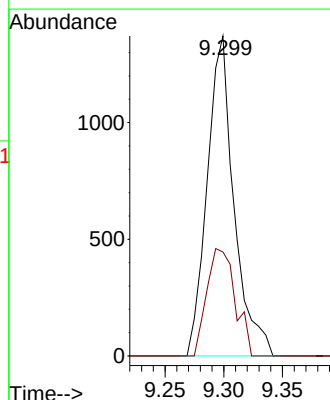
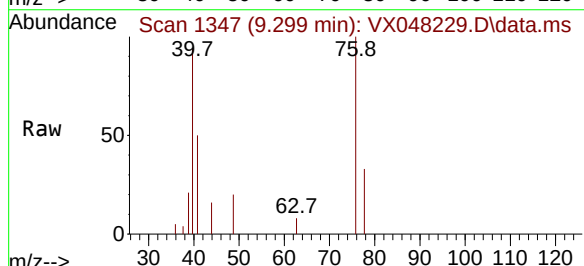
RT: 9.299 min Scan# 1347

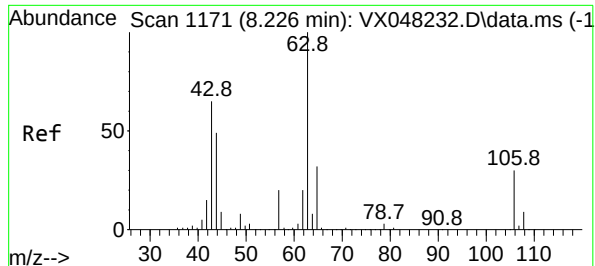
Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Tgt Ion:	76	Resp:	2174
Ion	Ratio	Lower	Upper
76	100		
78	35.5	25.4	38.0





#58

2-Chloroethyl Vinyl ether

Concen: 3.381 ug/l

RT: 8.232 min Scan# 1171

Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 63 Resp: 2970

Ion Ratio Lower Upper

63 100

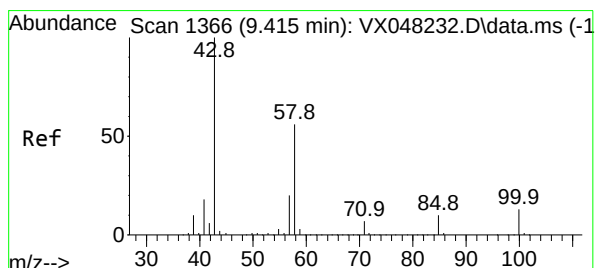
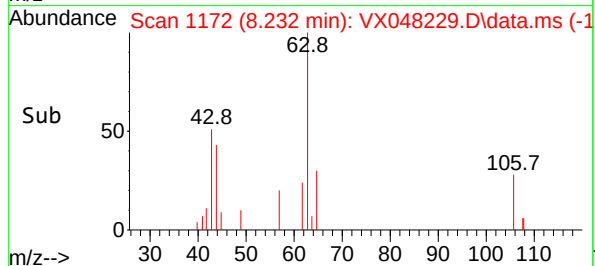
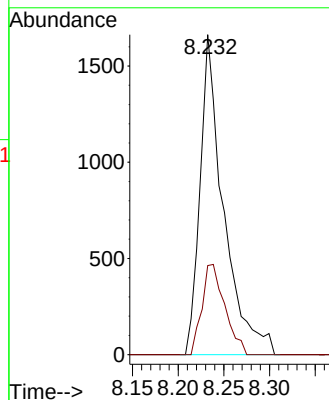
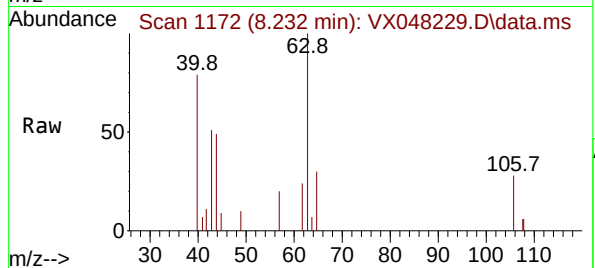
106 27.5 22.2 33.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#59

2-Hexanone

Concen: 4.518 ug/l

RT: 9.421 min Scan# 1367

Delta R.T. 0.006 min

Lab File: VX048229.D

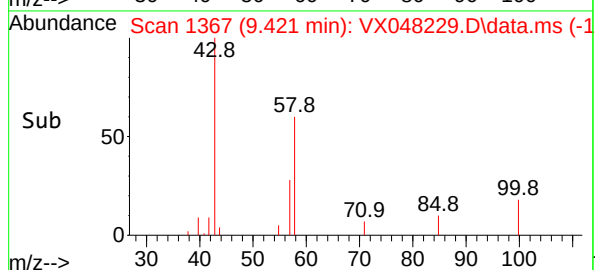
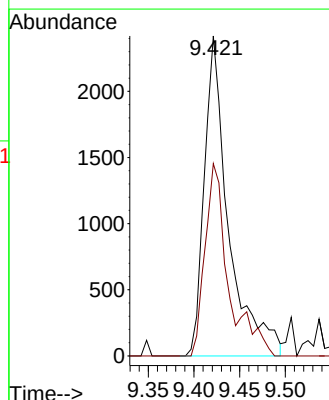
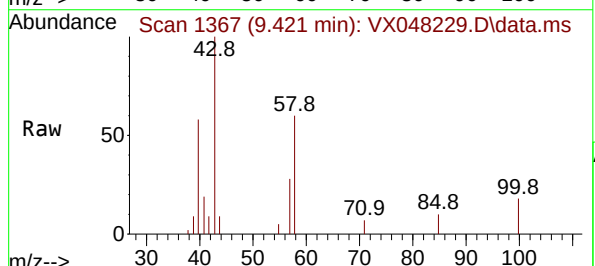
Acq: 20 Oct 2025 10:59

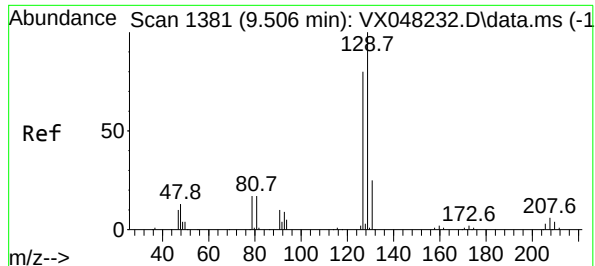
Tgt Ion: 43 Resp: 4456

Ion Ratio Lower Upper

43 100

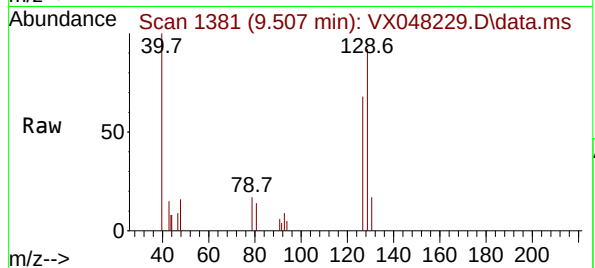
58 58.1 26.3 78.8





#60
Dibromochloromethane
Concen: 1.183 ug/l
RT: 9.507 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

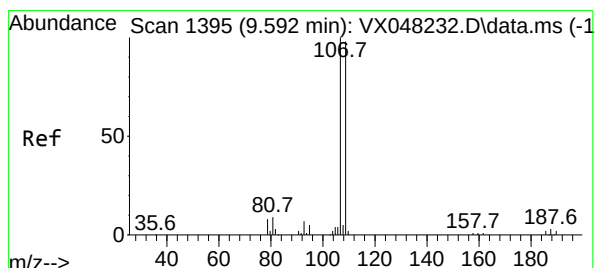
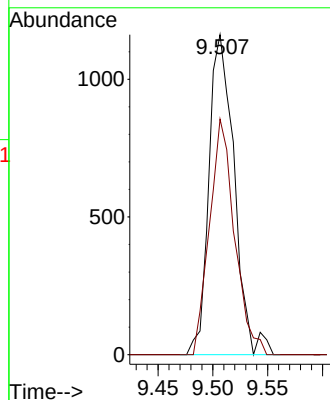
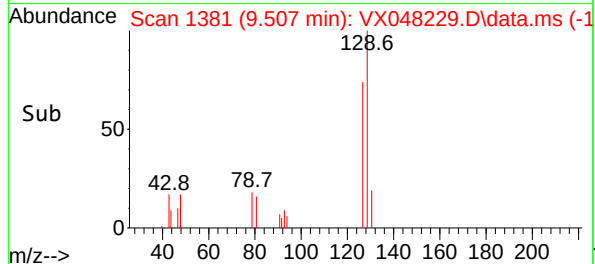
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:129 Resp: 1862
Ion Ratio Lower Upper
129 100
127 72.9 38.6 115.7

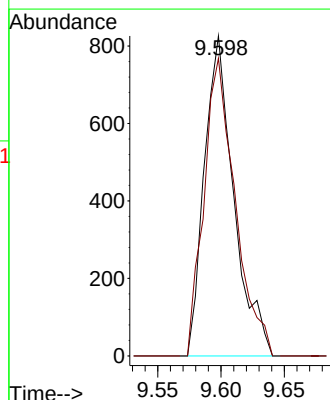
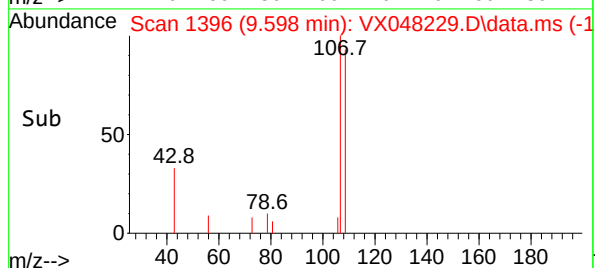
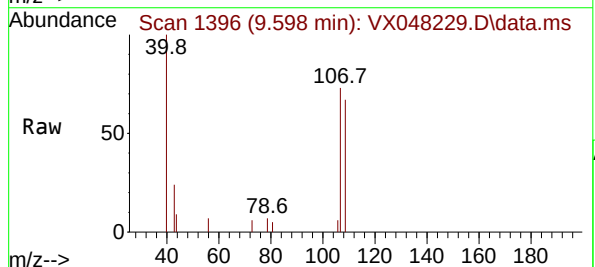
Manual Integrations
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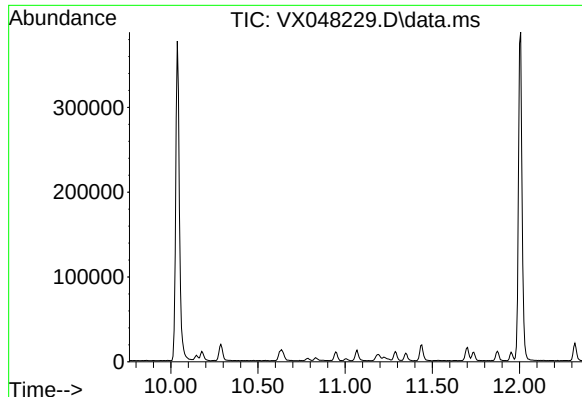
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#61
1,2-Dibromoethane
Concen: 1.037 ug/l
RT: 9.598 min Scan# 1396
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:107 Resp: 1338
Ion Ratio Lower Upper
107 100
109 98.6 77.0 115.4





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

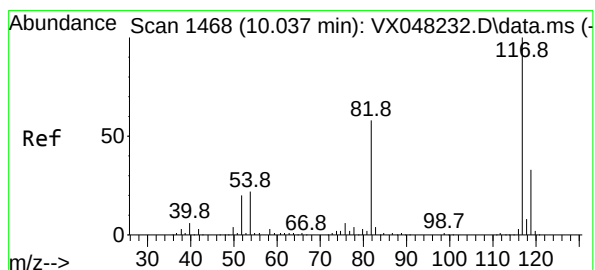
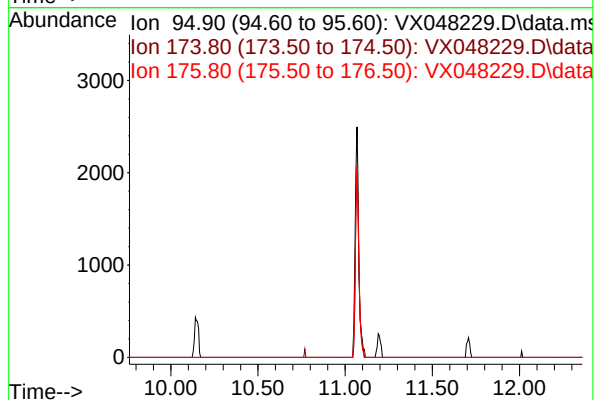
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 95
Sig Exp Ratio
95 100
174 73.9
176 71.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

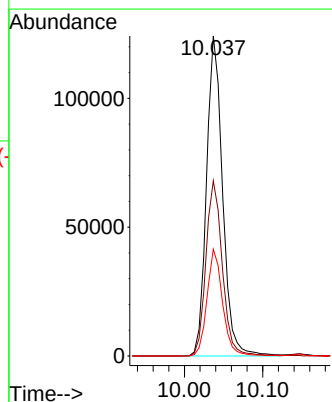
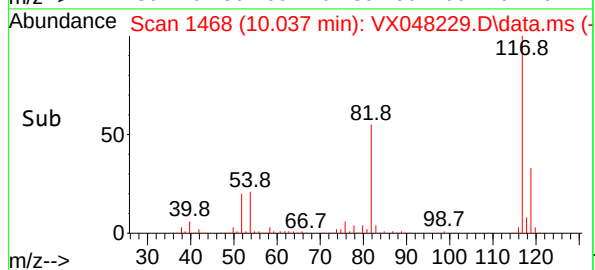
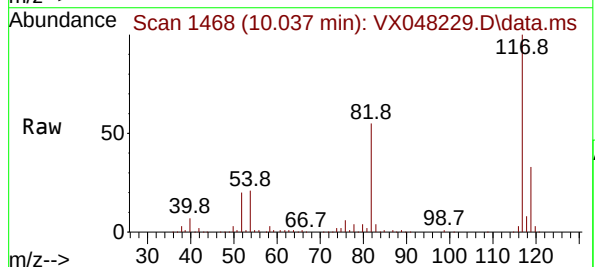
Manual Integrations
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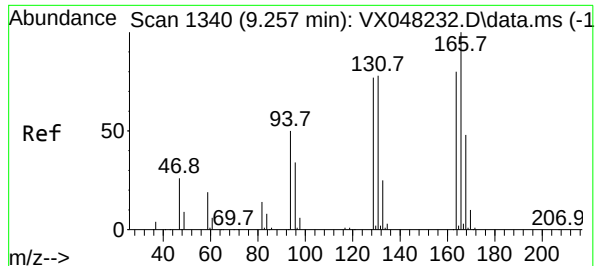
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:117 Resp: 177252
Ion Ratio Lower Upper
117 100
82 54.8 46.5 69.7
119 33.3 25.9 38.9





#64

Tetrachloroethene

Concen: 1.192 ug/l

RT: 9.257 min Scan# 1482

Delta R.T. 0.000 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:164 Resp: 1482

Ion Ratio Lower Upper

164 100

166 116.4 104.5 156.7

129 95.9 81.8 122.6

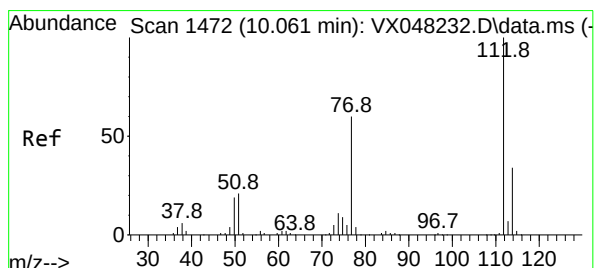
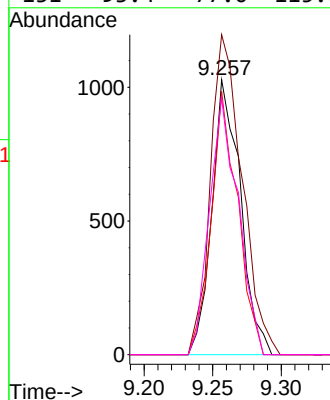
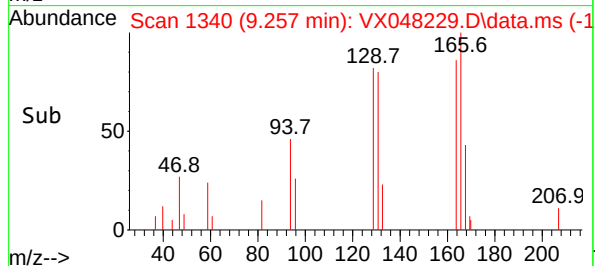
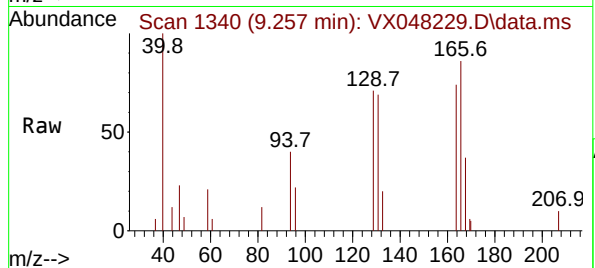
131 93.4 77.0 115.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#65

Chlorobenzene

Concen: 1.051 ug/l

RT: 10.067 min Scan# 1473

Delta R.T. 0.006 min

Lab File: VX048229.D

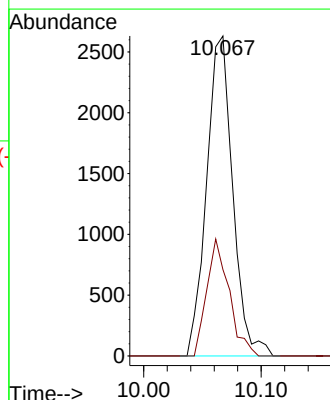
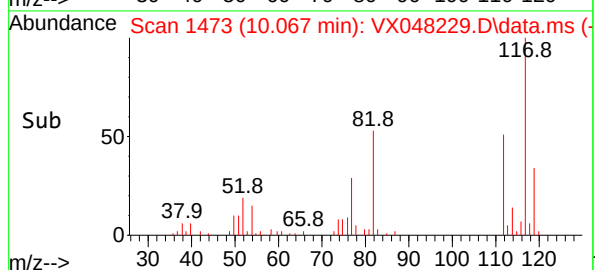
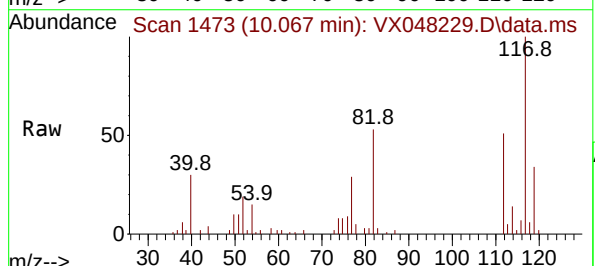
Acq: 20 Oct 2025 10:59

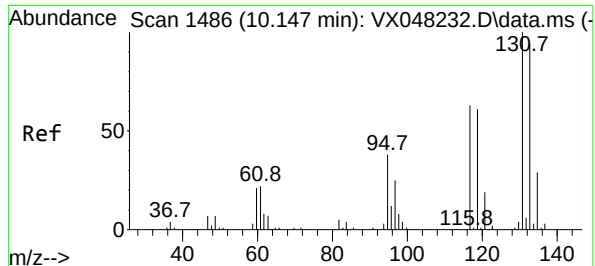
Tgt Ion:112 Resp: 4073

Ion Ratio Lower Upper

112 100

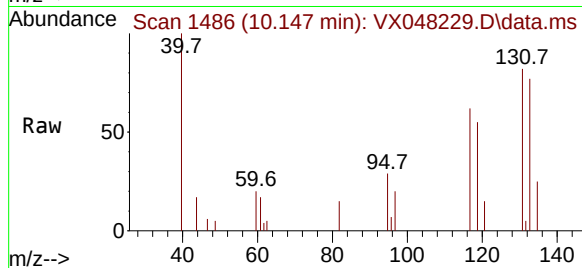
114 27.0 26.2 39.2





#66
1,1,1,2-Tetrachloroethane
Concen: 1.070 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

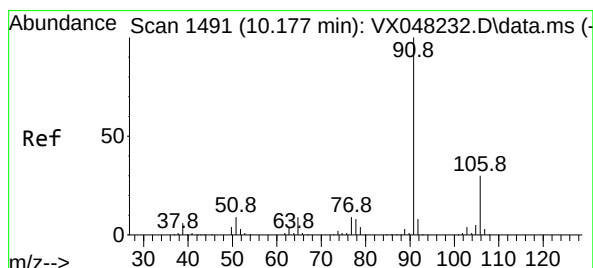
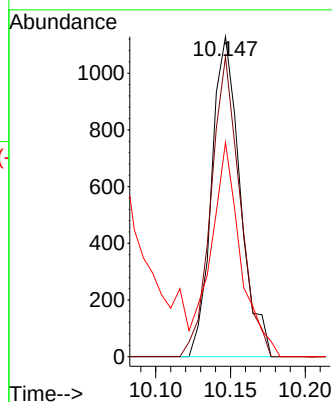
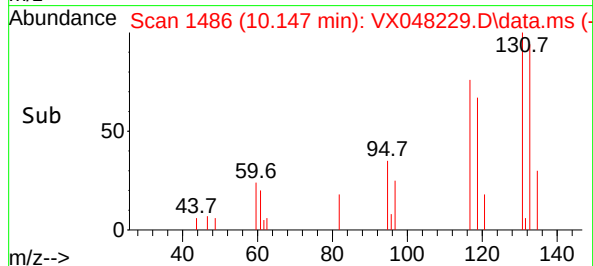
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:131 Resp: 149
Ion Ratio Lower Upper
131 100
133 95.1 47.6 142.8
119 0.0 32.5 97.5

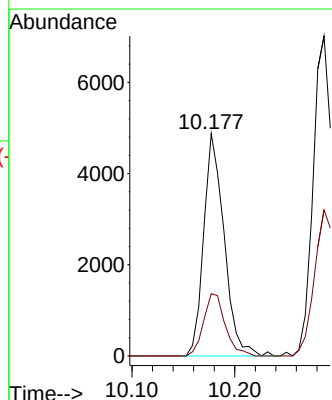
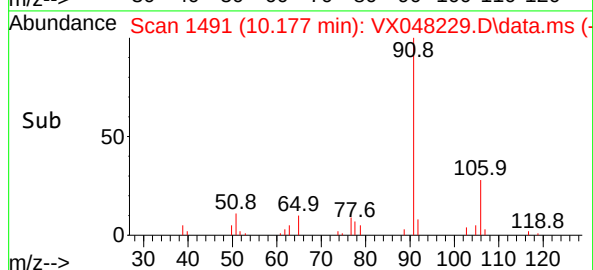
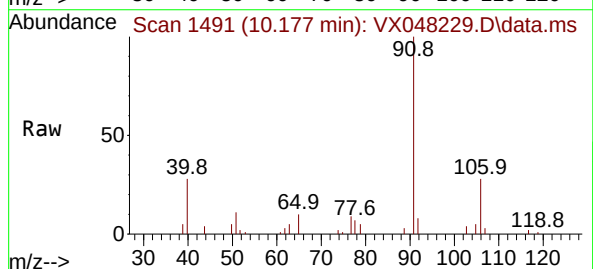
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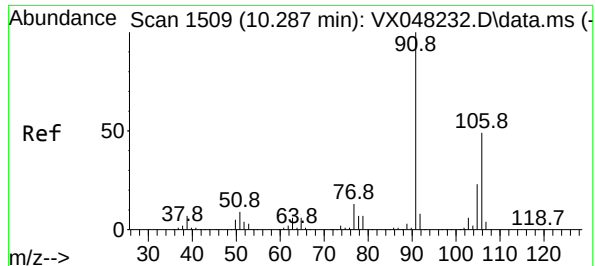
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#67
Ethyl Benzene
Concen: 1.016 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 91 Resp: 6752
Ion Ratio Lower Upper
91 100
106 28.0 23.8 35.6





#68

m/p-Xylenes

Concen: 1.854 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:106 Resp: 4589

Ion Ratio Lower Upper

106 100

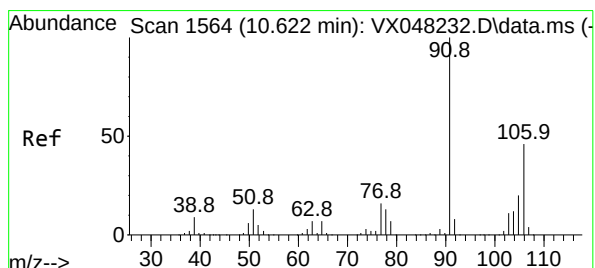
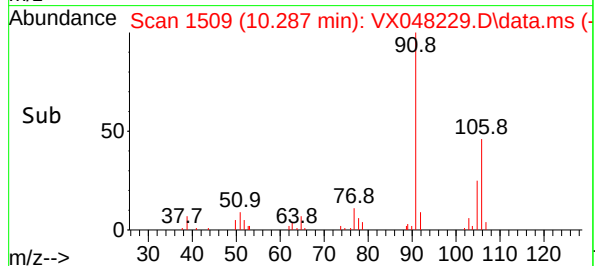
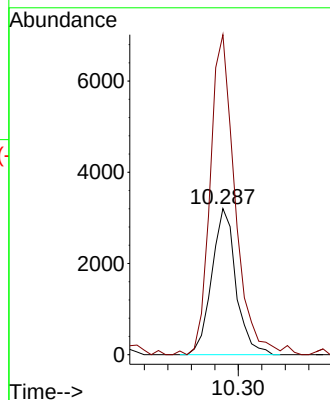
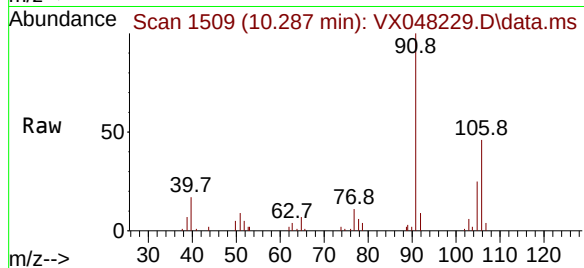
91 225.6 167.9 251.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#69

o-Xylene

Concen: 0.993 ug/l

RT: 10.628 min Scan# 1565

Delta R.T. 0.006 min

Lab File: VX048229.D

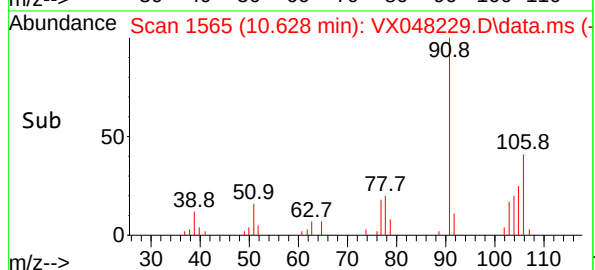
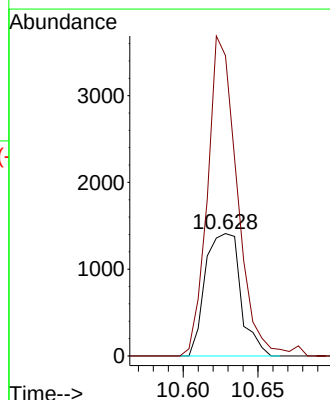
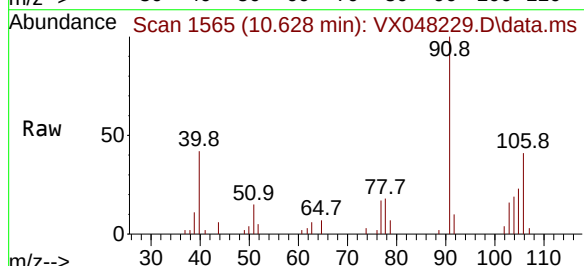
Acq: 20 Oct 2025 10:59

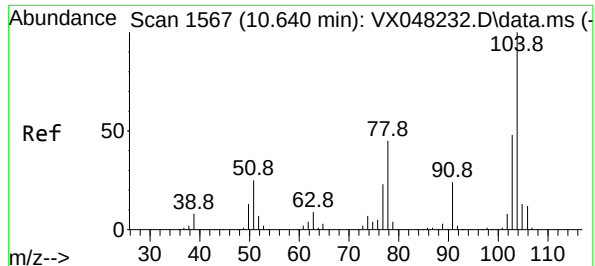
Tgt Ion:106 Resp: 2313

Ion Ratio Lower Upper

106 100

91 221.2 111.3 333.9





#70

Styrene

Concen: 0.932 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

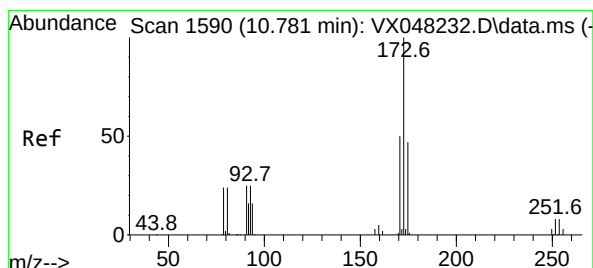
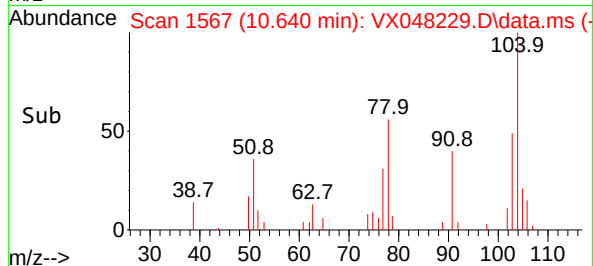
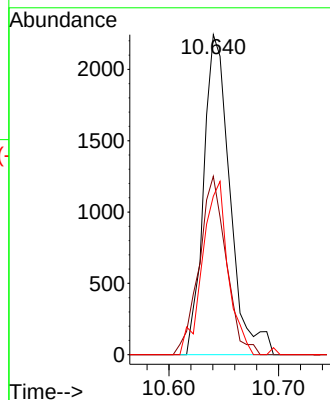
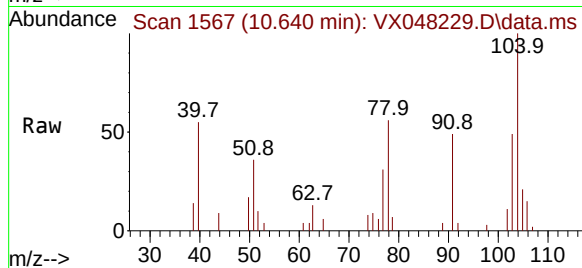
ClientSampleId :

VSTDIC001

Tgt Ion:104	Resp:	373
Ion Ratio	Lower	Upper
104	100	
78	57.1	42.2 63.4
103	52.6	43.0 64.4

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Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#71

Bromoform

Concen: 1.168 ug/l

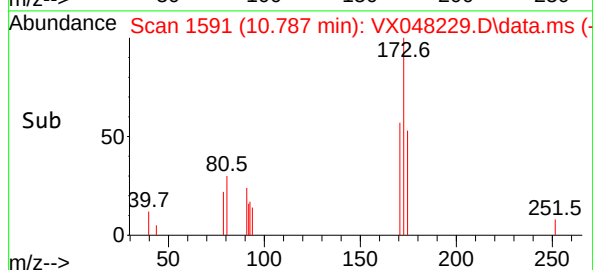
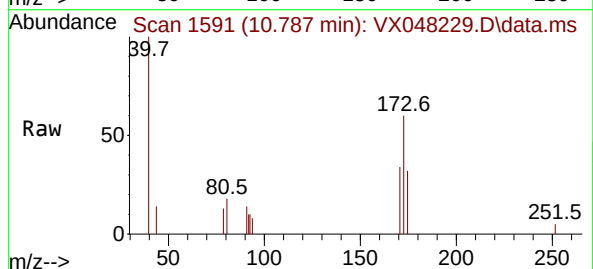
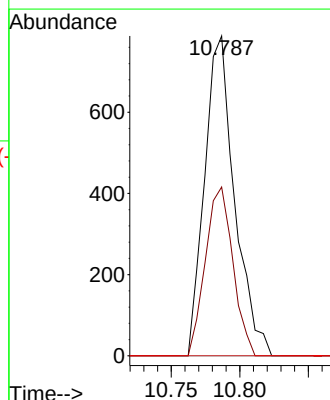
RT: 10.787 min Scan# 1591

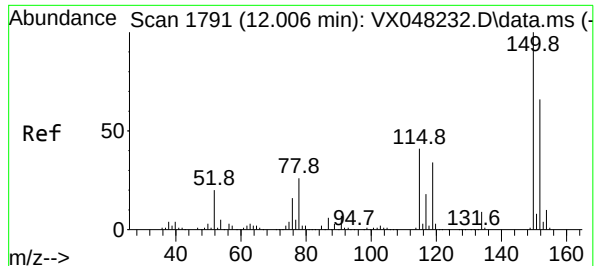
Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

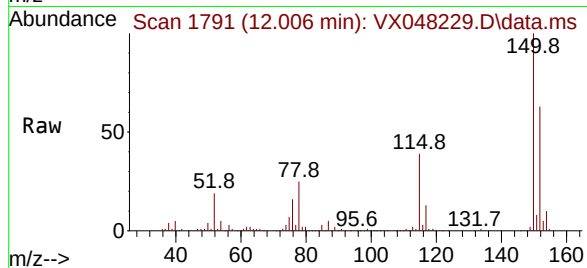
Tgt Ion:173	Resp:	1198
Ion Ratio	Lower	Upper
173	100	
175	48.4	24.0 72.0
254	0.0	0.0 0.0





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

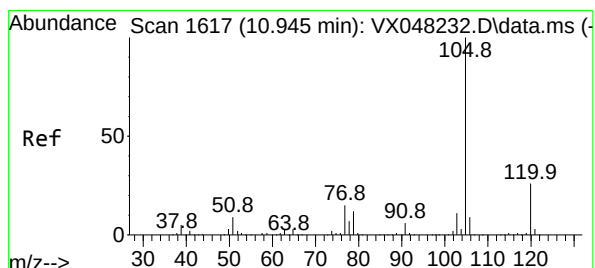
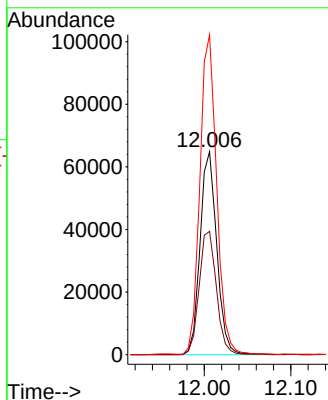
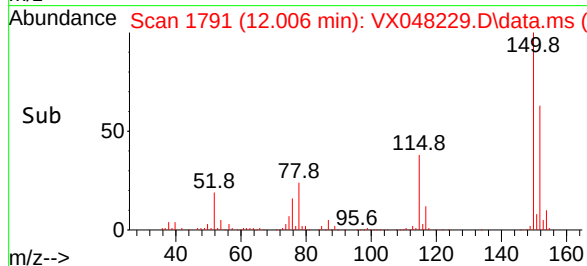
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



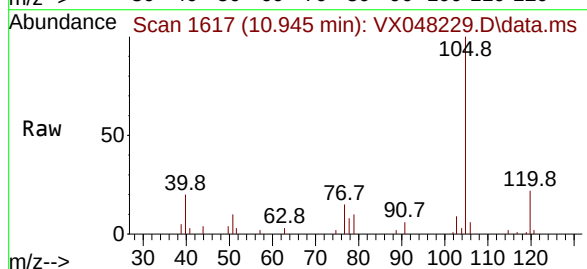
Tgt Ion:152 Resp: 8694
Ion Ratio Lower Upper
152 100
115 63.0 43.1 129.4
150 158.2 0.0 353.0

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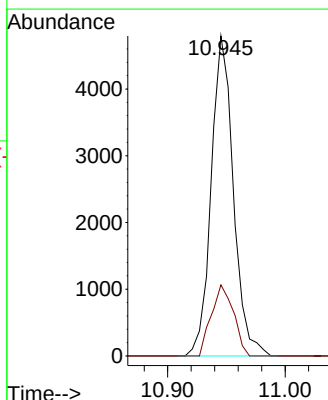
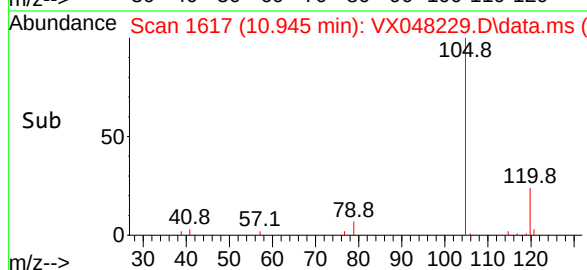
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

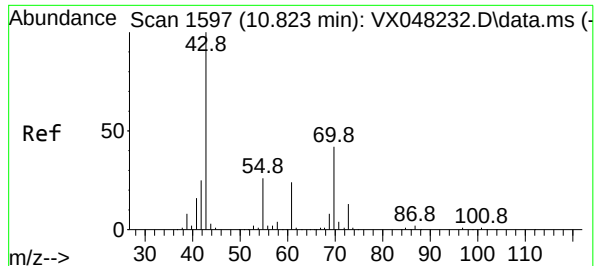


#73
Isopropylbenzene
Concen: 1.040 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59



Tgt Ion:105 Resp: 6291
Ion Ratio Lower Upper
105 100
120 22.2 13.0 38.9





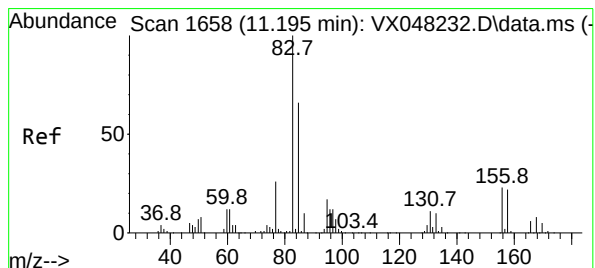
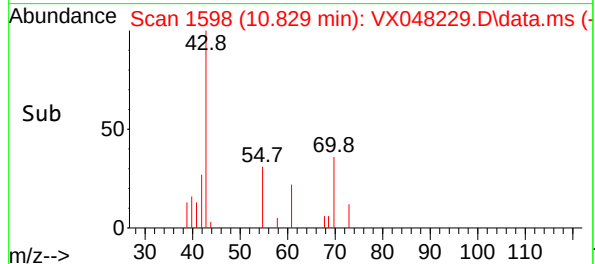
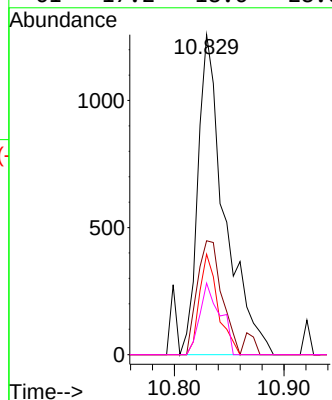
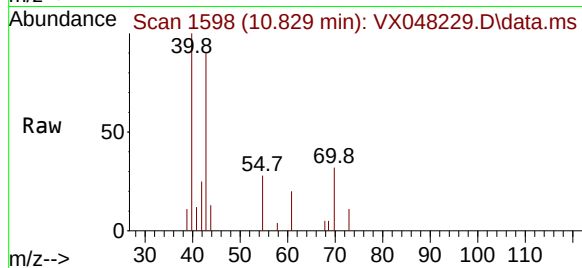
#74
N-amy1 acetate
Concen: 0.947 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:	43	Resp:	213
Ion	Ratio	Lower	Upper
43	100		
70	32.8	32.2	48.2
55	22.0	19.1	28.7
61	17.2	18.6	28.0

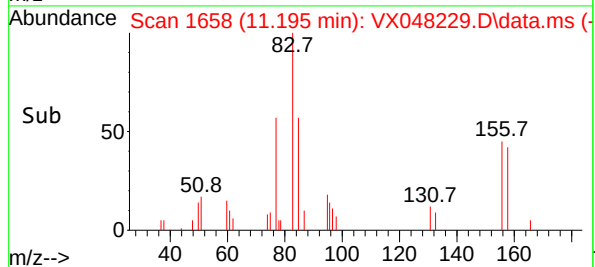
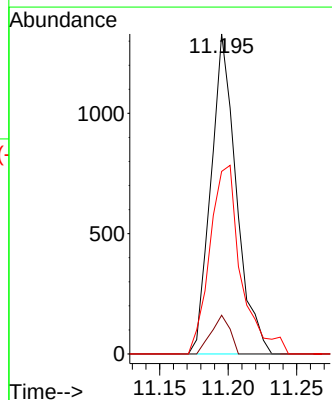
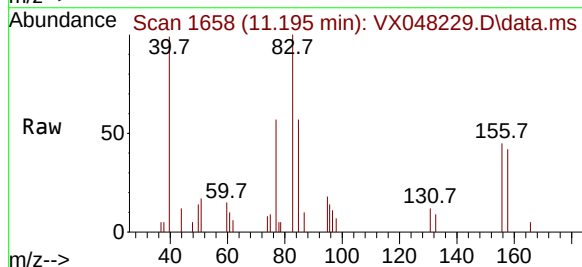
Manual Integrations
APPROVED

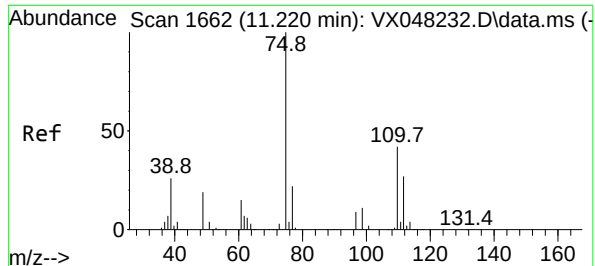
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#75
1,1,2,2-Tetrachloroethane
Concen: 1.003 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion:	83	Resp:	1718
Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.8	14.4
85	72.1	31.9	95.7





#76

1,2,3-Trichloropropane

Concen: 1.216 ug/l m

RT: 11.220 min Scan# 1662

Delta R.T. 0.000 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 75 Resp: 161

Ion Ratio Lower Upper

75 100

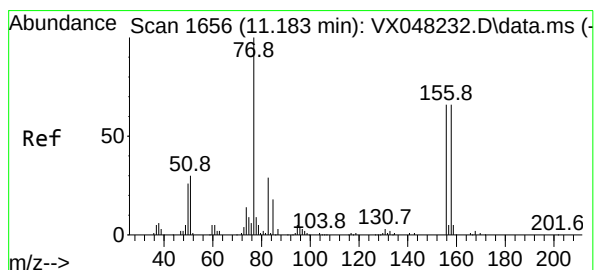
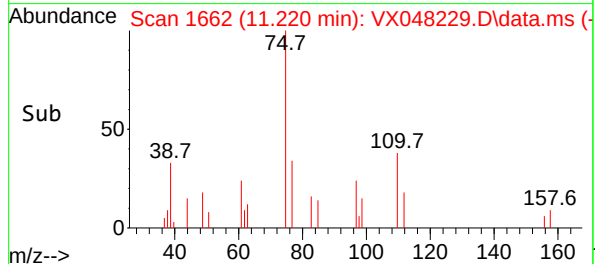
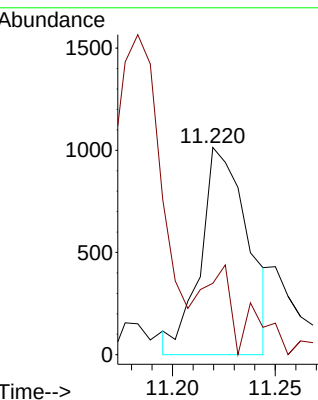
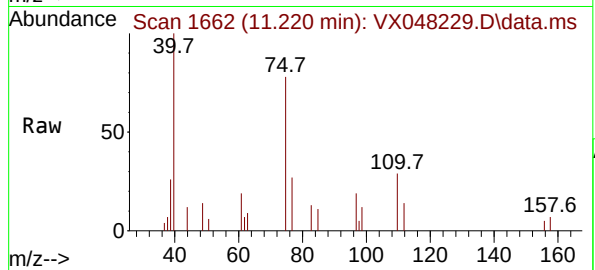
77 40.2 22.4 67.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#77

Bromobenzene

Concen: 1.080 ug/l

RT: 11.183 min Scan# 1656

Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

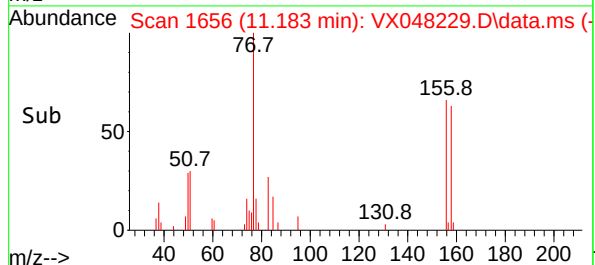
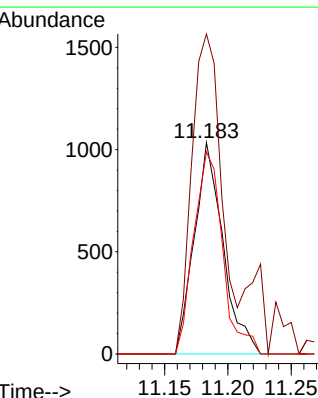
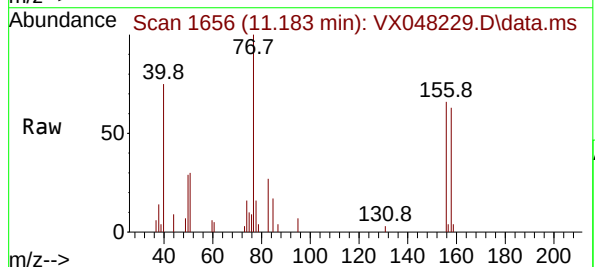
Tgt Ion:156 Resp: 1635

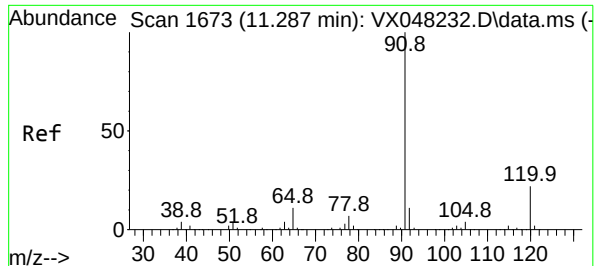
Ion Ratio Lower Upper

156 100

77 155.2 87.0 261.0

158 96.4 47.8 143.4





#78

n-propylbenzene

Concen: 0.949 ug/l

RT: 11.287 min Scan# 1673

Delta R.T. 0.000 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 6950

Ion Ratio Lower Upper

91 100

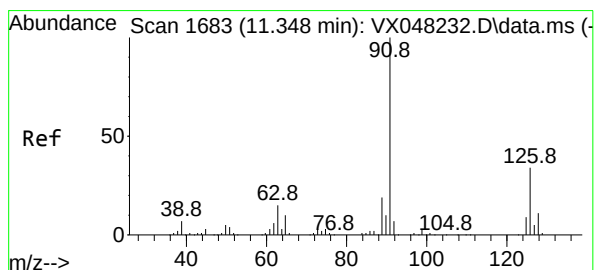
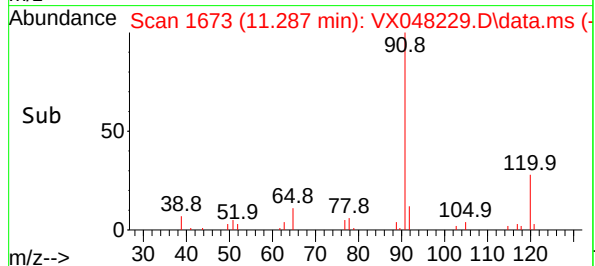
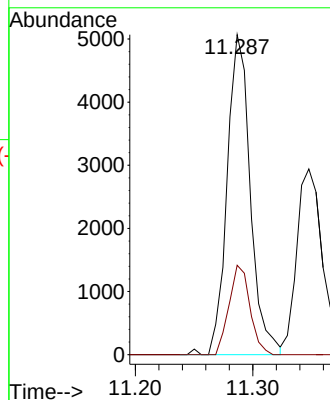
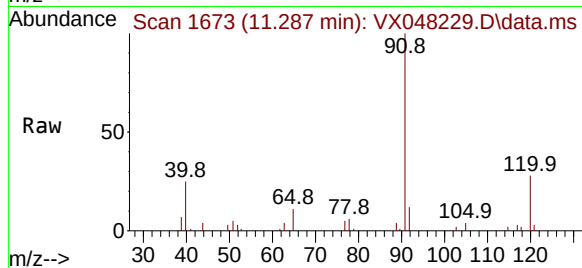
120 25.2 11.1 33.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#79

2-Chlorotoluene

Concen: 1.010 ug/l

RT: 11.348 min Scan# 1683

Delta R.T. 0.000 min

Lab File: VX048229.D

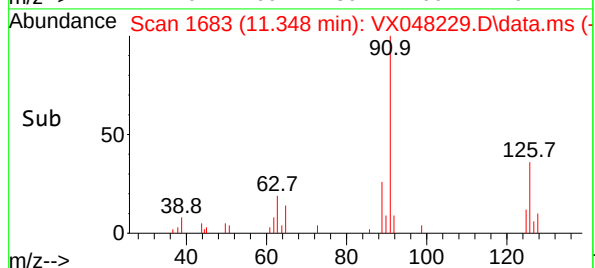
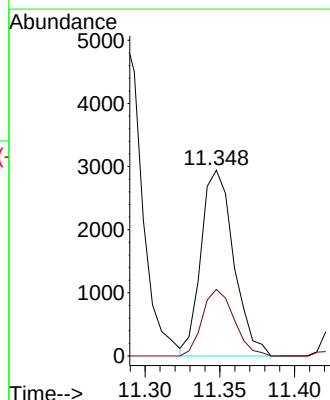
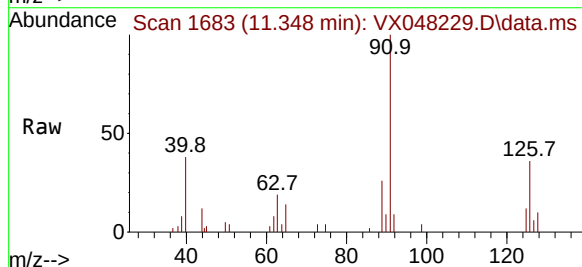
Acq: 20 Oct 2025 10:59

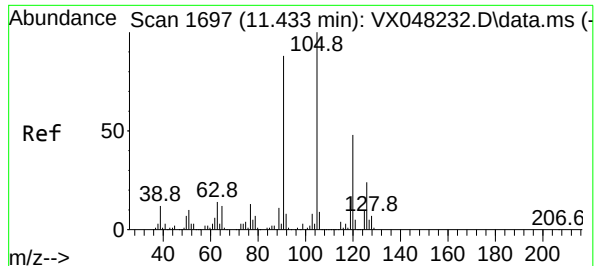
Tgt Ion: 91 Resp: 4477

Ion Ratio Lower Upper

91 100

126 34.8 16.4 49.4





#80

1,3,5-Trimethylbenzene

Concen: 1.047 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. 0.000 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

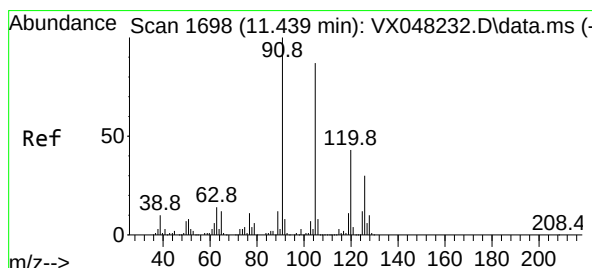
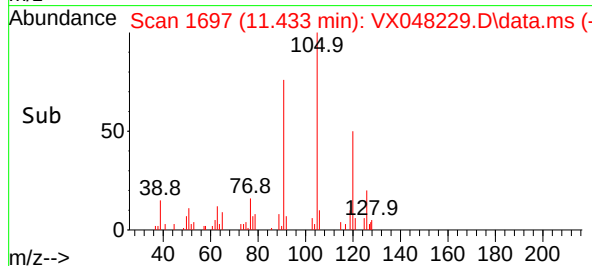
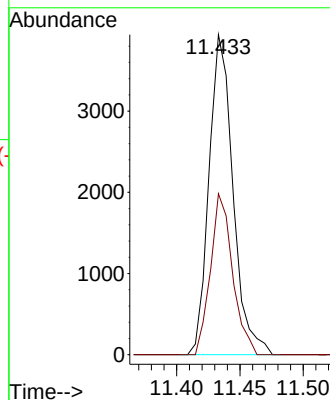
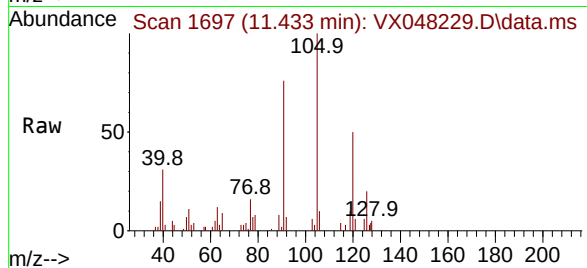
Tgt Ion:105 Resp: 5190
Ion Ratio Lower Upper
105 100
120 46.2 24.0 72.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#82

4-Chlorotoluene

Concen: 1.034 ug/l

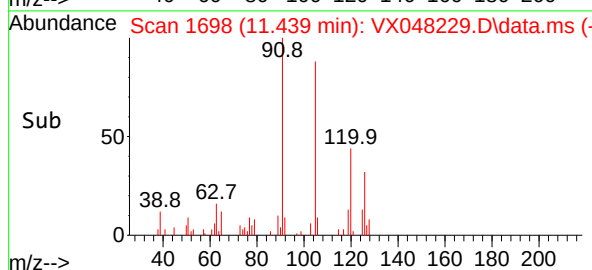
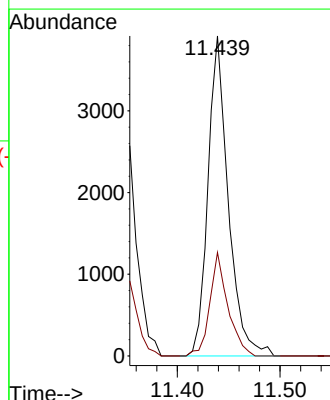
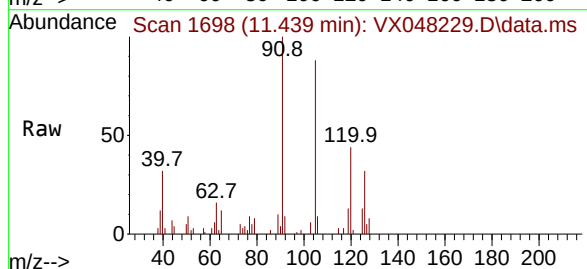
RT: 11.439 min Scan# 1698

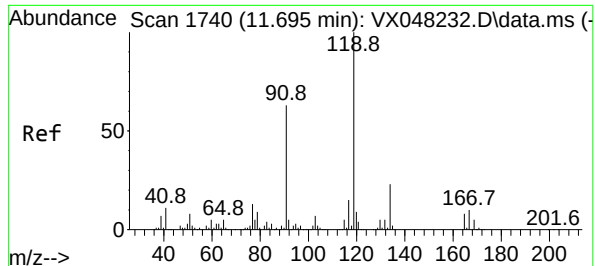
Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Tgt Ion: 91 Resp: 5385
Ion Ratio Lower Upper
91 100
126 28.7 14.1 42.4





#83

tert-Butylbenzene

Concen: 1.085 ug/l

RT: 11.695 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

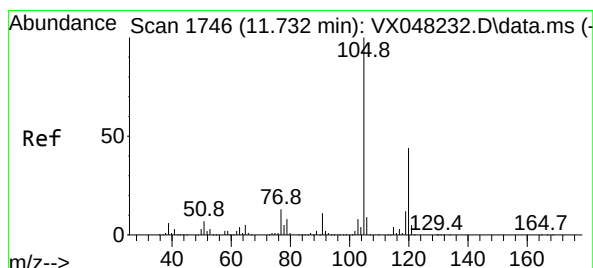
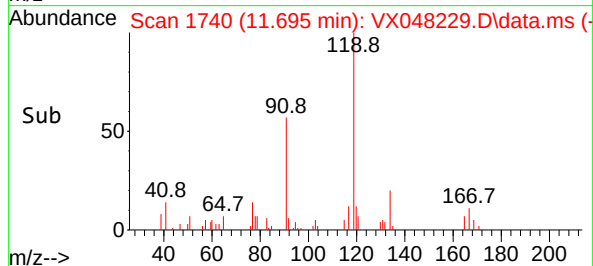
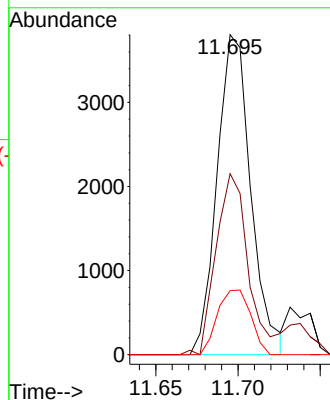
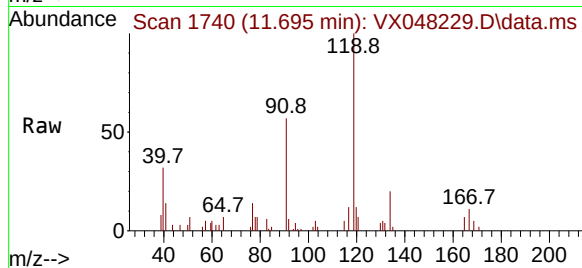
VSTDIC001

Tgt Ion:	119	Resp:	5439
Ion	Ratio	Lower	Upper
119	100		
91	53.0	30.3	91.0
134	19.9	11.4	34.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#84

1,2,4-Trimethylbenzene

Concen: 0.982 ug/l

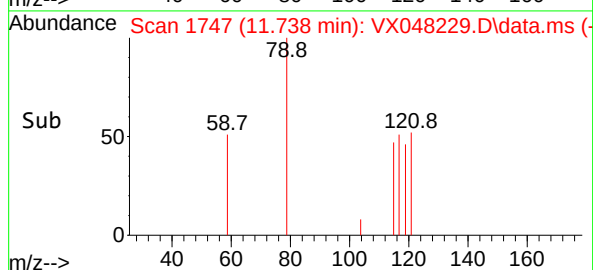
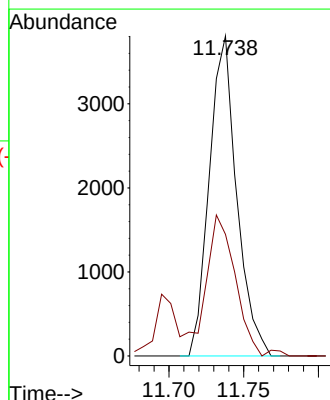
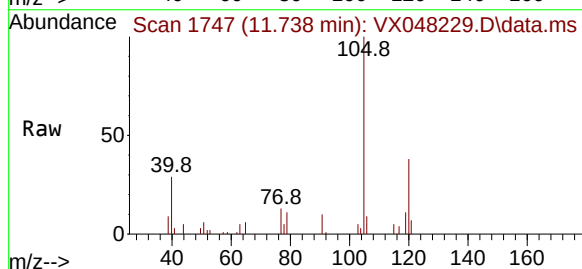
RT: 11.738 min Scan# 1747

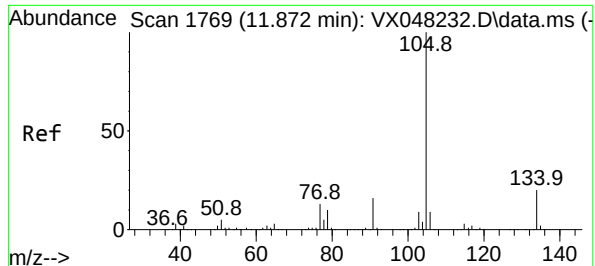
Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Tgt Ion:	105	Resp:	4854
Ion	Ratio	Lower	Upper
105	100		
120	43.9	22.1	66.5





#85

sec-Butylbenzene

Concen: 1.075 ug/l

RT: 11.872 min Scan# 1769

Delta R.T. 0.000 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:105 Resp: 6589

Ion Ratio Lower Upper

105 100

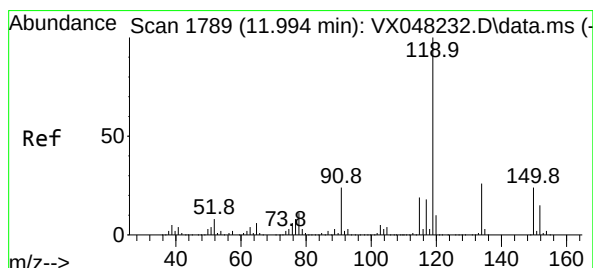
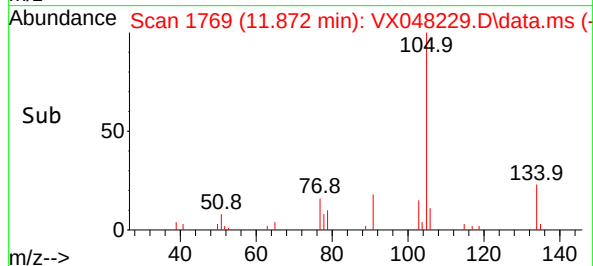
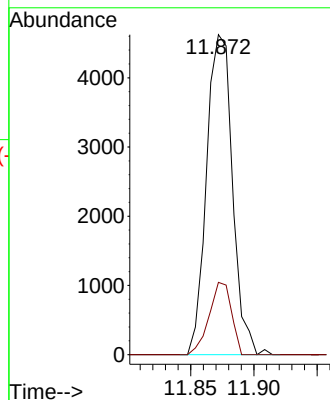
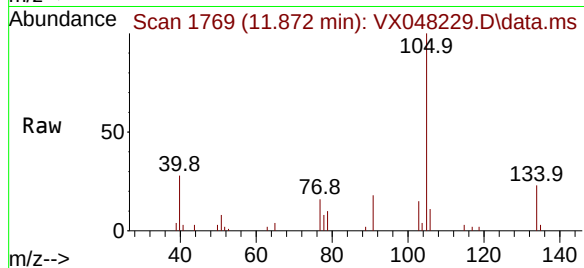
134 19.4 10.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#86

p-Isopropyltoluene

Concen: 1.125 ug/l

RT: 11.994 min Scan# 1789

Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

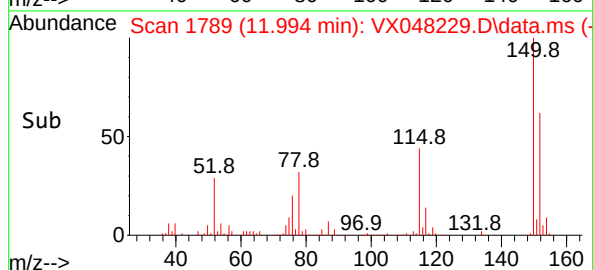
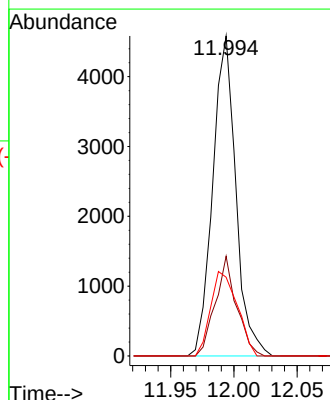
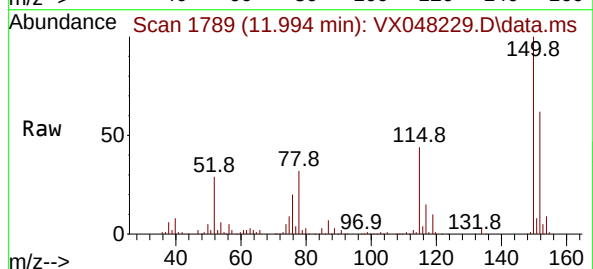
Tgt Ion:119 Resp: 5812

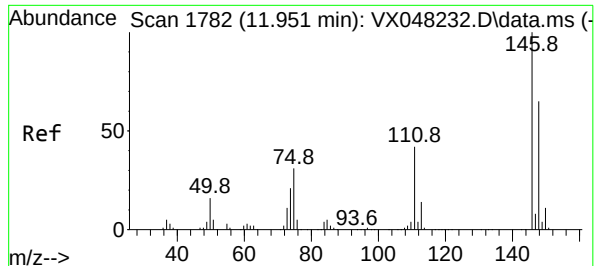
Ion Ratio Lower Upper

119 100

134 28.8 13.0 39.0

91 30.5 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 1.145 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. 0.000 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

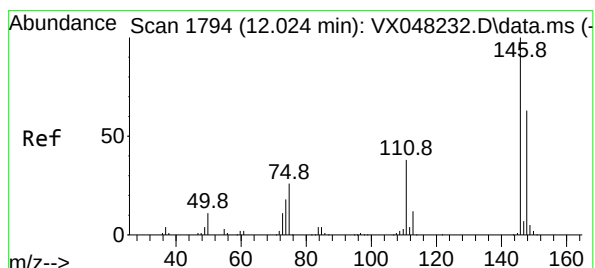
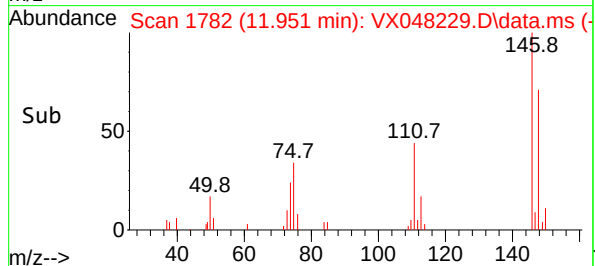
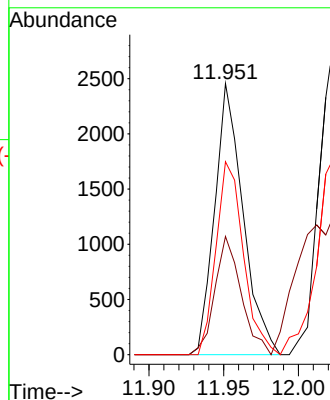
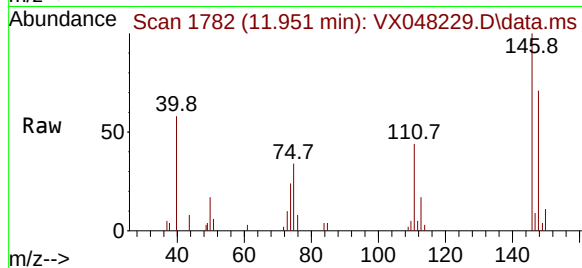
Tgt Ion:146	Resp:	3239
Ion Ratio	Lower	Upper
146	100	
111	40.5	20.4 61.2
148	68.9	31.9 95.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#88

1,4-Dichlorobenzene

Concen: 1.270 ug/l m

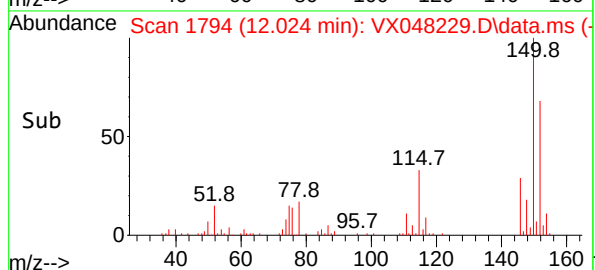
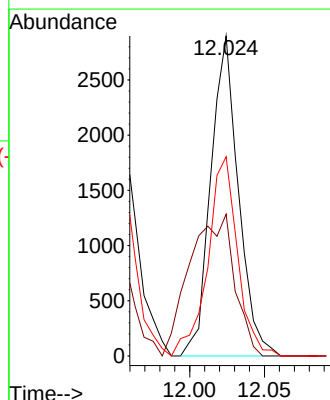
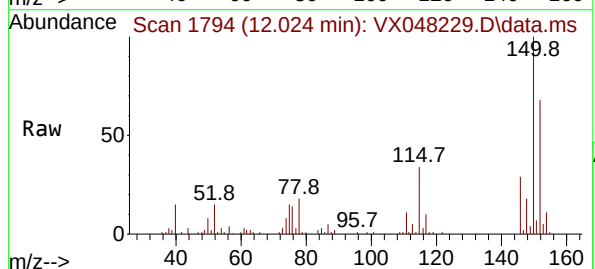
RT: 12.024 min Scan# 1794

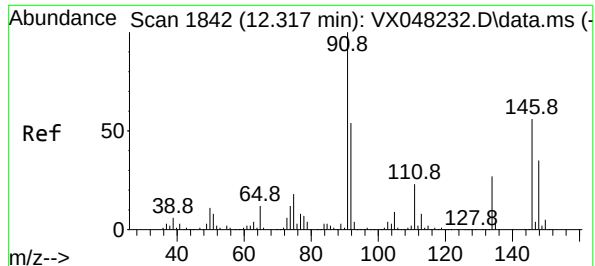
Delta R.T. 0.000 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Tgt Ion:146	Resp:	3727
Ion Ratio	Lower	Upper
146	100	
111	35.2	20.1 60.2
148	59.9	31.8 95.3





#89

n-Butylbenzene

Concen: 1.202 ug/l

RT: 12.317 min Scan# 1842

Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

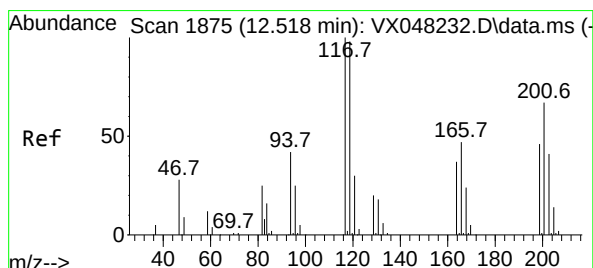
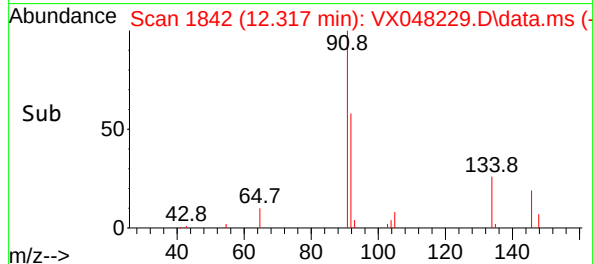
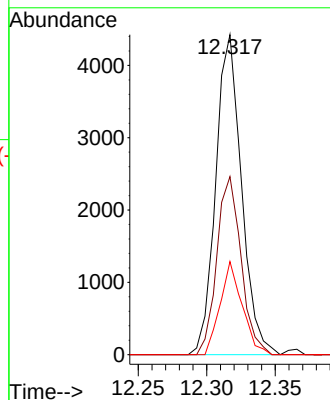
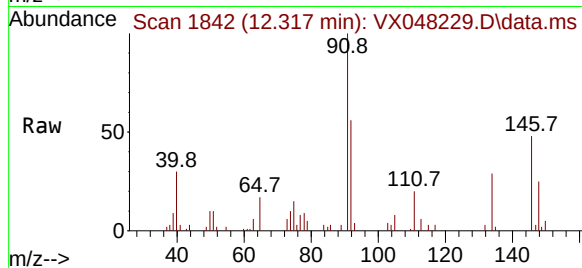
VSTDIC001

Tgt Ion:	91	Resp:	578
Ion	Ratio	Lower	Upper
91	100		
92	52.3	26.9	80.6
134	24.9	12.7	38.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#90

Hexachloroethane

Concen: 1.084 ug/l

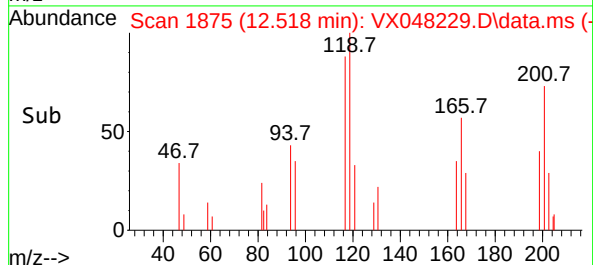
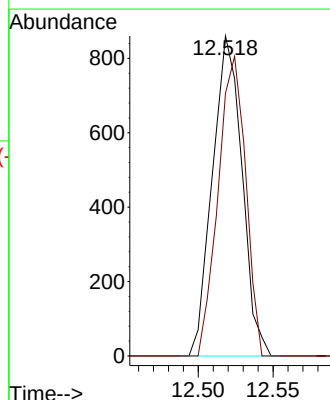
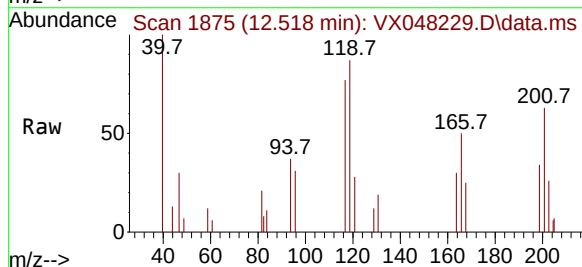
RT: 12.518 min Scan# 1875

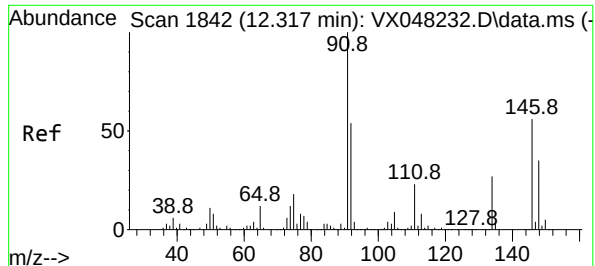
Delta R.T. 0.000 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

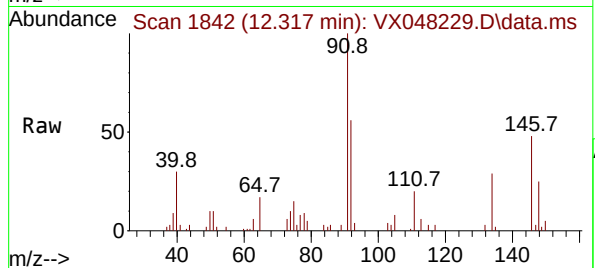
Tgt Ion:	117	Resp:	1182
Ion	Ratio	Lower	Upper
117	100		
201	87.1	34.1	102.2





#91
1,2-Dichlorobenzene
Concen: 1.172 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.000 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

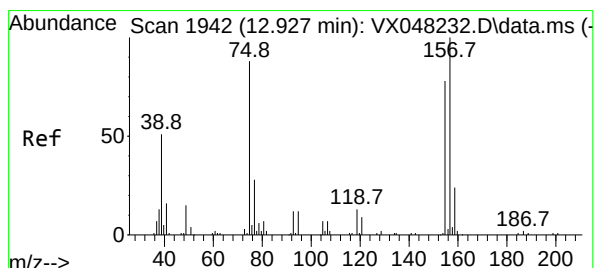
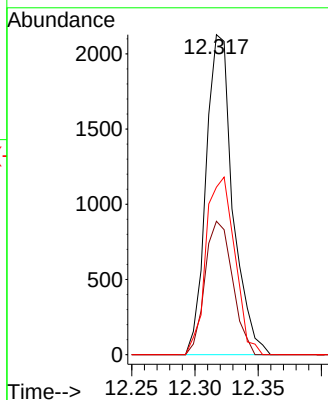
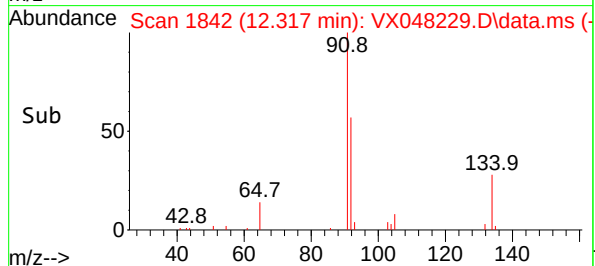
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 146 Resp: 313
Ion Ratio Lower Upper
146 100
111 42.9 21.9 65.5
148 59.5 31.9 95.5

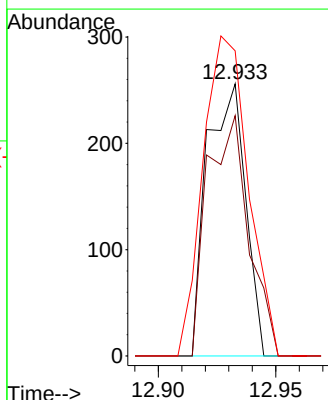
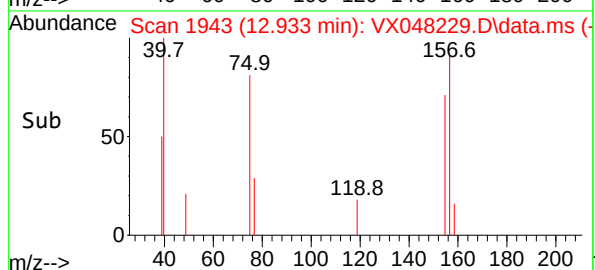
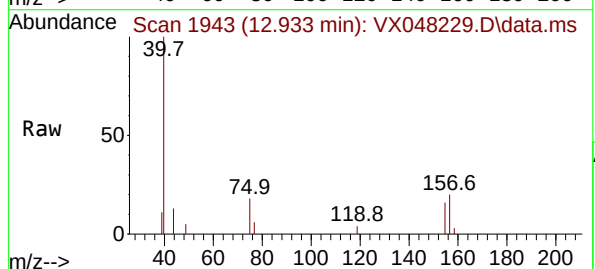
Manual Integrations
APPROVED

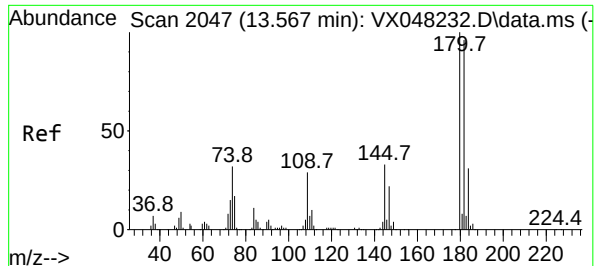
Reviewed By : John Carlone 10/21/2025
Supervised By : Semsettin Yesilyurt 10/21/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.926 ug/l
RT: 12.933 min Scan# 1943
Delta R.T. 0.012 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

Tgt Ion: 75 Resp: 290
Ion Ratio Lower Upper
75 100
155 95.2 42.8 128.4
157 139.0 54.2 162.6





#93

1,2,4-Trichlorobenzene

Concen: 1.587 ug/l

RT: 13.573 min Scan# 2047

Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

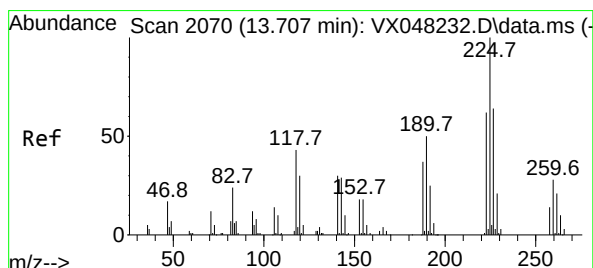
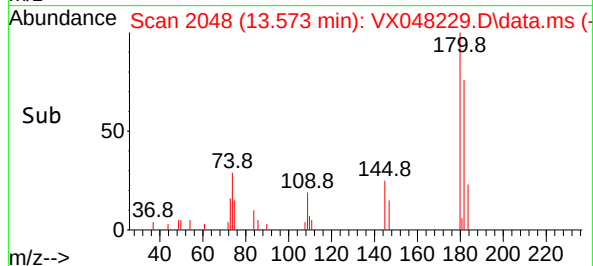
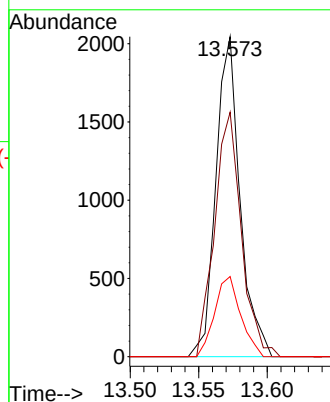
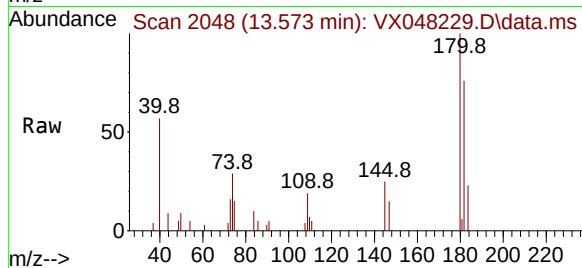
Tgt Ion:180	Resp:	250
Ion Ratio	Lower	Upper
180	100	
182	84.5	47.3 142.0
145	27.1	16.3 48.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#94

Hexachlorobutadiene

Concen: 2.724 ug/l

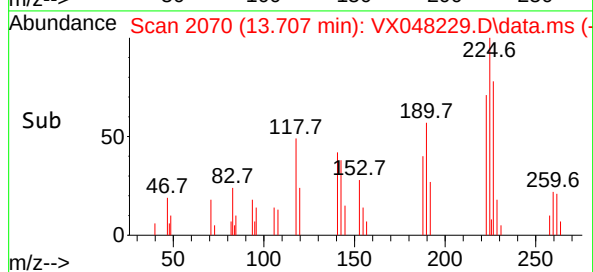
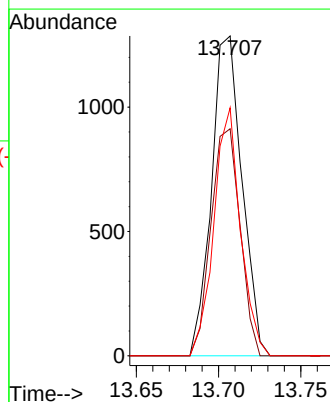
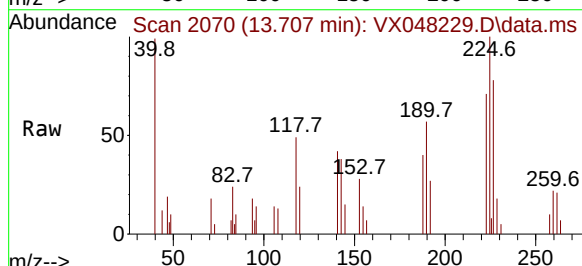
RT: 13.707 min Scan# 2070

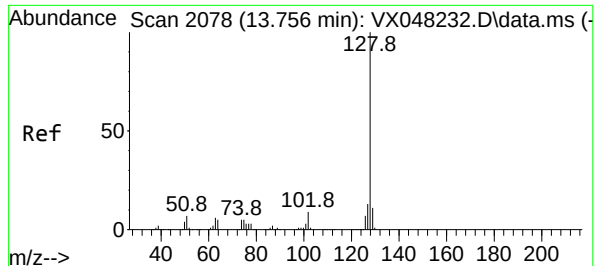
Delta R.T. 0.006 min

Lab File: VX048229.D

Acq: 20 Oct 2025 10:59

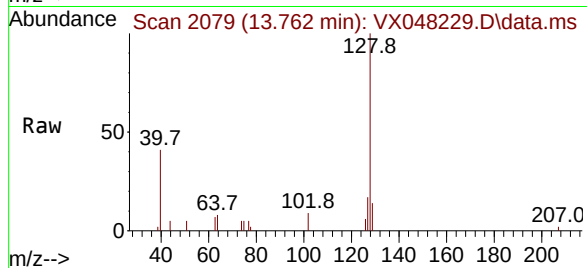
Tgt Ion:225	Resp:	1658
Ion Ratio	Lower	Upper
225	100	
223	67.8	32.6 97.7
227	67.7	32.5 97.4





#95
Naphthalene
Concen: 1.230 ug/l
RT: 13.762 min Scan# 2078
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59

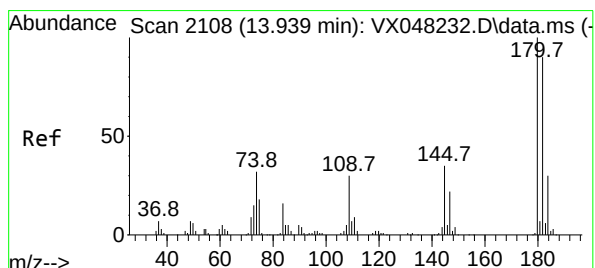
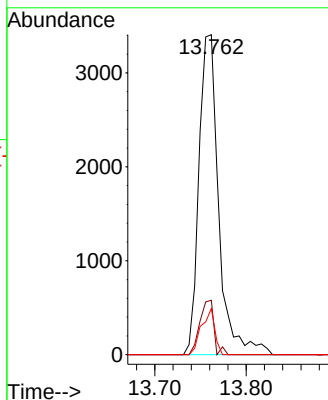
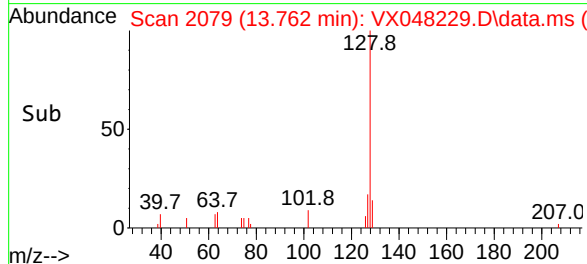
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



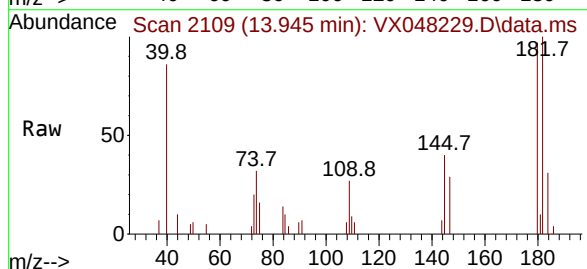
Tgt Ion:128 Resp: 5110
Ion Ratio Lower Upper
128 100
127 12.1 10.2 15.4
129 9.7 8.6 12.8

Manual Integrations
APPROVED

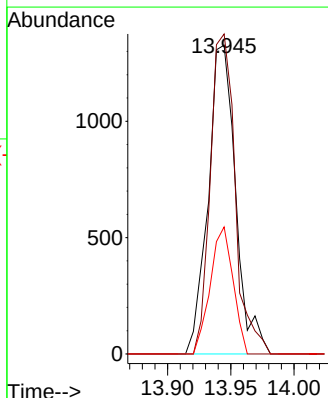
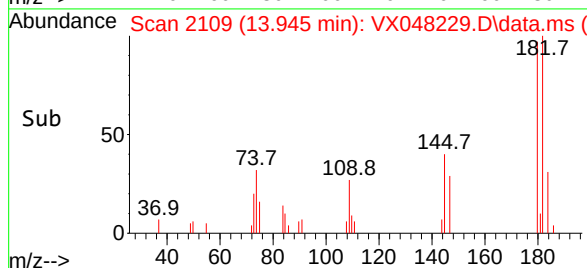
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 1.377 ug/l
RT: 13.945 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX048229.D
Acq: 20 Oct 2025 10:59



Tgt Ion:180 Resp: 2006
Ion Ratio Lower Upper
180 100
182 93.5 46.6 139.7
145 34.1 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
 Data File : VX048231.D
 Acq On : 20 Oct 2025 11:40
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Quant Time: Oct 20 12:37:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 12:35:14 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/21/2025
 Supervised By : Semsettin Yesilyurt 10/21/2025

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	119626	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	195028	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	178975	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	90972	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	33936	18.312	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	36.620%#		
35) Dibromofluoromethane	5.373	113	26897	19.872	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	39.740%#		
50) Toluene-d8	8.635	98	92476	18.965	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	37.920%#		
62) 4-Bromofluorobenzene	11.061	95	34724	19.551	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	39.100%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.179	85	24524	19.532	ug/l	98
3) Chloromethane	1.300	50	22401	14.727	ug/l	100
4) Vinyl Chloride	1.380	62	20913	13.048	ug/l	94
5) Bromomethane	1.617	94	15473	14.517	ug/l	100
6) Chloroethane	1.697	64	13249	12.990	ug/l	93
7) Trichlorofluoromethane	1.898	101	41824	16.625	ug/l	98
8) Diethyl Ether	2.136	74	12293	14.325	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.337	101	25843	18.229	ug/l	96
10) Methyl Iodide	2.459	142	30452	17.934	ug/l	99
11) Tert butyl alcohol	2.947	59	16521	134.353	ug/l	100
12) 1,1-Dichloroethene	2.325	96	26209	18.907	ug/l	92
13) Acrolein	2.239	56	15157	58.651	ug/l	99
14) Allyl chloride	2.666	41	43494	17.443	ug/l	98
15) Acrylonitrile	3.056	53	63931	108.499	ug/l	97
16) Acetone	2.373	43	59884	94.723	ug/l	96
17) Carbon Disulfide	2.520	76	77142	18.087	ug/l	98
18) Methyl Acetate	2.703	43	26374	20.482	ug/l	92
19) Methyl tert-butyl Ether	3.111	73	91349	21.877	ug/l	100
20) Methylene Chloride	2.794	84	31157	20.231	ug/l	88
21) trans-1,2-Dichloroethene	3.093	96	28001	19.525	ug/l	94
22) Diisopropyl ether	3.751	45	90030	18.439	ug/l	87
23) Vinyl Acetate	3.715	43	364009	99.706	ug/l	98
24) 1,1-Dichloroethane	3.605	63	51927	18.746	ug/l	98
25) 2-Butanone	4.544	43	78643	106.774	ug/l	95
26) 2,2-Dichloropropane	4.465	77	46568	19.669	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	33508	19.688	ug/l	98
28) Bromochloromethane	4.891	49	19339	15.146	ug/l	90
29) Tetrahydrofuran	4.995	42	47457	109.718	ug/l	94
30) Chloroform	5.080	83	57780	19.813	ug/l	99
31) Cyclohexane	5.464	56	42796	18.882	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	51929	21.672	ug/l	98
36) 1,1-Dichloropropene	5.684	75	38270	20.071	ug/l	99
37) Ethyl Acetate	4.702	43	30904	20.280	ug/l #	95
38) Carbon Tetrachloride	5.666	117	46323	21.166	ug/l	98
39) Methylcyclohexane	7.366	83	42776	19.897	ug/l	94
40) Benzene	6.025	78	115488	20.398	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
 Data File : VX048231.D
 Acq On : 20 Oct 2025 11:40
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 12:37:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M

Quant Title : SW846 8260

QLast Update : Mon Oct 20 12:35:14 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	18461	22.621	ug/l	97
42) 1,2-Dichloroethane	6.074	62	44176	21.778	ug/l	100
43) Isopropyl Acetate	6.324	43	55317	21.625	ug/l	96
44) Trichloroethene	7.110	130	29108	20.399	ug/l	90
45) 1,2-Dichloropropane	7.421	63	28242	19.709	ug/l	97
46) Dibromomethane	7.568	93	21605	20.955	ug/l	92
47) Bromodichloromethane	7.805	83	46221	20.743	ug/l	100
48) Methyl methacrylate	7.677	41	27751	21.193	ug/l	94
49) 1,4-Dioxane	7.647	88	7620	646.470	ug/l	91
51) 4-Methyl-2-Pentanone	8.555	43	164708	115.713	ug/l	94
52) Toluene	8.702	92	73623	21.635	ug/l	98
53) t-1,3-Dichloropropene	8.964	75	45416	21.756	ug/l	99
54) cis-1,3-Dichloropropene	8.354	75	47130	20.713	ug/l	96
55) 1,1,2-Trichloroethane	9.134	97	27884	21.961	ug/l	98
56) Ethyl methacrylate	9.104	69	41809	24.210	ug/l	93
57) 1,3-Dichloropropane	9.293	76	47896	21.591	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	104883	118.278	ug/l	96
59) 2-Hexanone	9.415	43	116268	116.777	ug/l	95
60) Dibromochloromethane	9.506	129	37127	23.361	ug/l	98
61) 1,2-Dibromoethane	9.598	107	30639	23.533	ug/l	96
64) Tetrachloroethene	9.256	164	27043	21.550	ug/l	89
65) Chlorobenzene	10.061	112	83004	21.211	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.146	131	30278	21.471	ug/l	98
67) Ethyl Benzene	10.177	91	139895	20.852	ug/l	98
68) m/p-Xylenes	10.287	106	107377	42.962	ug/l	100
69) o-Xylene	10.622	106	50950	21.655	ug/l	98
70) Styrene	10.640	104	88481	21.848	ug/l	99
71) Bromoform	10.780	173	25027	24.168	ug/l #	100
73) Isopropylbenzene	10.945	105	133034	21.025	ug/l	99
74) N-amyl acetate	10.829	43	48726	20.642	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.195	83	38748	21.616	ug/l	98
76) 1,2,3-Trichloropropane	11.219	75	29913m	21.533	ug/l	
77) Bromobenzene	11.183	156	33843	21.374	ug/l	95
78) n-propylbenzene	11.286	91	154839	20.180	ug/l	98
79) 2-Chlorotoluene	11.347	91	95156	20.526	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	112057	21.575	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	12001	21.154	ug/l	94
82) 4-Chlorotoluene	11.439	91	113495	20.833	ug/l	98
83) tert-Butylbenzene	11.695	119	112305	21.403	ug/l	97
84) 1,2,4-Trimethylbenzene	11.732	105	111976	21.652	ug/l	100
85) sec-Butylbenzene	11.872	105	134014	20.891	ug/l	100
86) p-Isopropyltoluene	11.994	119	114969	21.263	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	63377	21.403	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	65612	21.375	ug/l	99
89) n-Butylbenzene	12.317	91	102140	20.281	ug/l	99
90) Hexachloroethane	12.518	117	22609	19.811	ug/l	94
91) 1,2-Dichlorobenzene	12.317	146	59345	21.212	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	7983	24.372	ug/l	94
93) 1,2,4-Trichlorobenzene	13.567	180	35465	21.473	ug/l	98
94) Hexachlorobutadiene	13.707	225	14529	22.810	ug/l	98
95) Naphthalene	13.756	128	104803	24.073	ug/l	99
96) 1,2,3-Trichlorobenzene	13.945	180	34276	22.493	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048231.D
Acq On : 20 Oct 2025 11:40
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 12:37:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

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

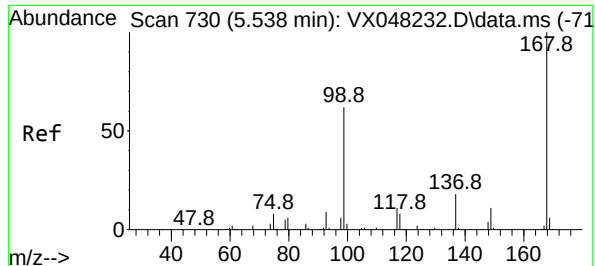
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025





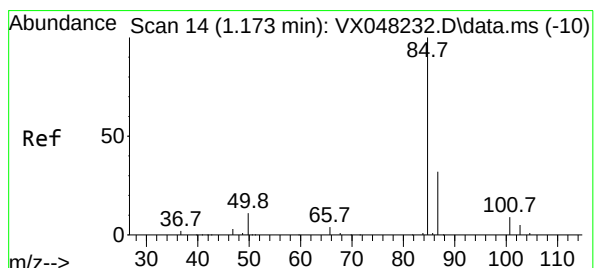
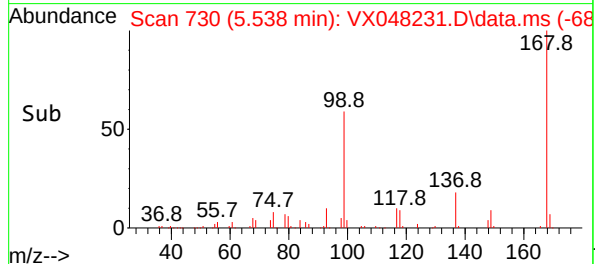
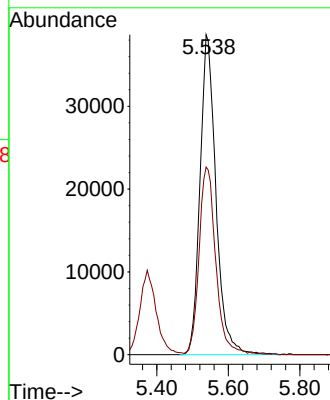
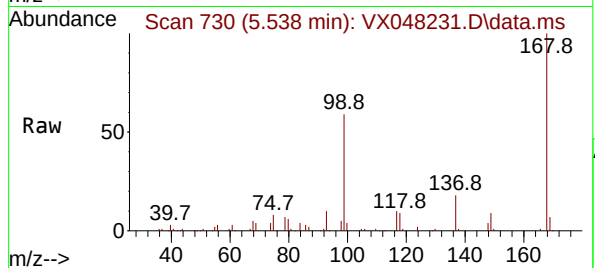
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 119620
Ion Ratio Lower Upper
168 100
99 58.7 46.4 69.6

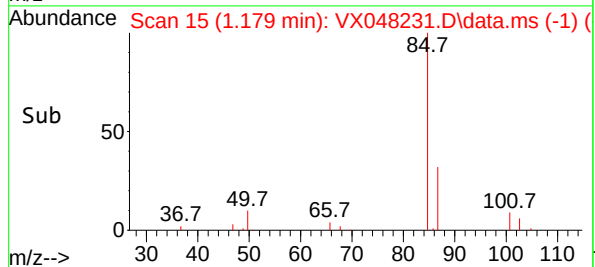
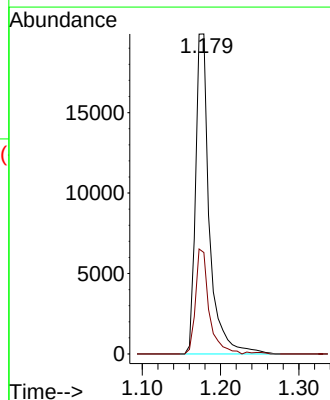
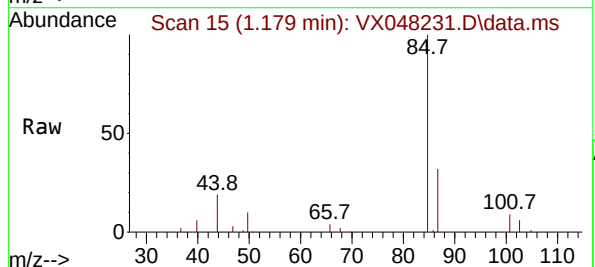
Manual Integrations
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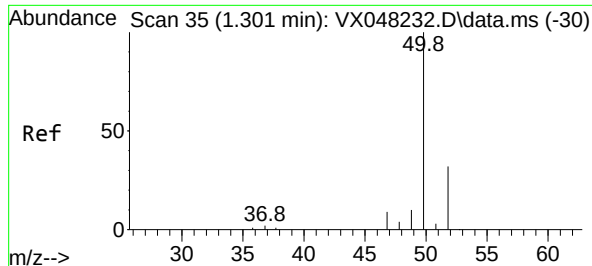
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#2
Dichlorodifluoromethane
Concen: 19.532 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 85 Resp: 24524
Ion Ratio Lower Upper
85 100
87 31.7 15.3 45.9





#3

Chloromethane

Concen: 14.727 ug/l

RT: 1.300 min Scan# 35

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 50 Resp: 2240

Ion Ratio Lower Upper

50 100

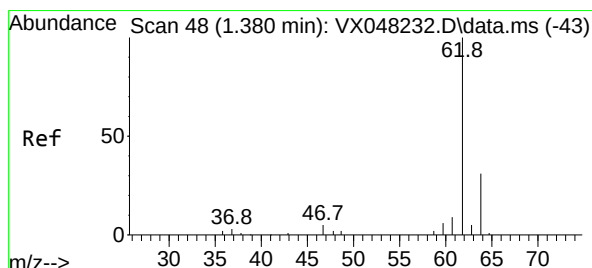
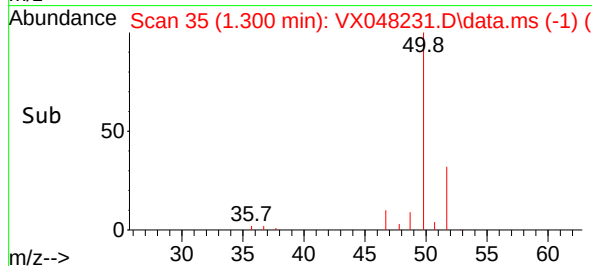
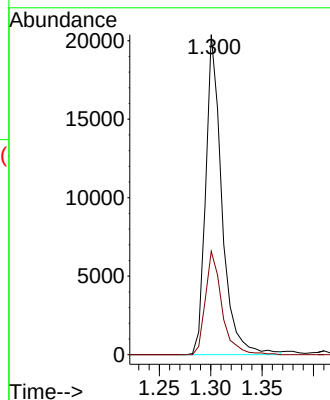
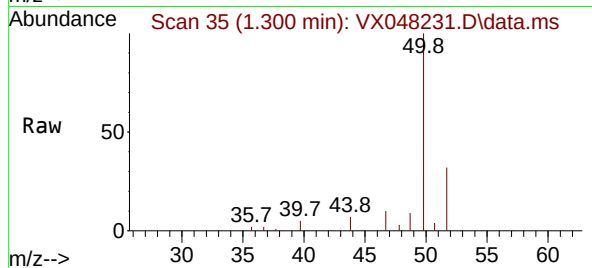
52 32.3 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#4

Vinyl Chloride

Concen: 13.048 ug/l

RT: 1.380 min Scan# 48

Delta R.T. -0.000 min

Lab File: VX048231.D

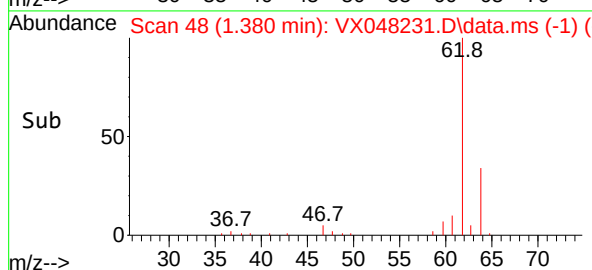
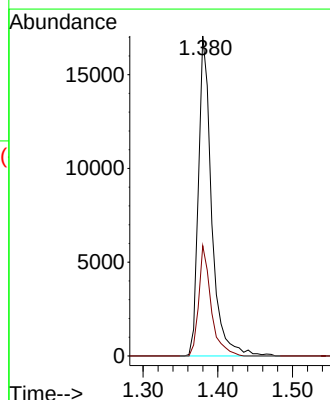
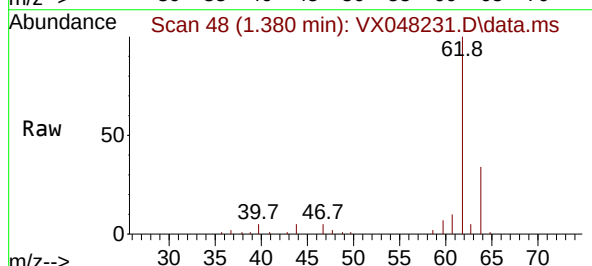
Acq: 20 Oct 2025 11:40

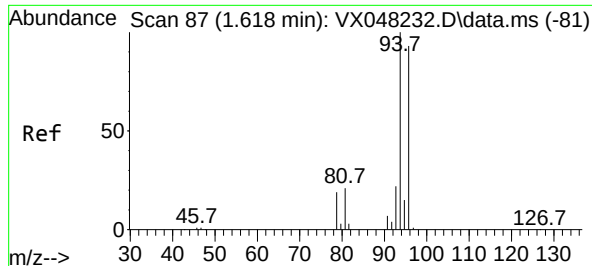
Tgt Ion: 62 Resp: 20913

Ion Ratio Lower Upper

62 100

64 34.5 25.1 37.7





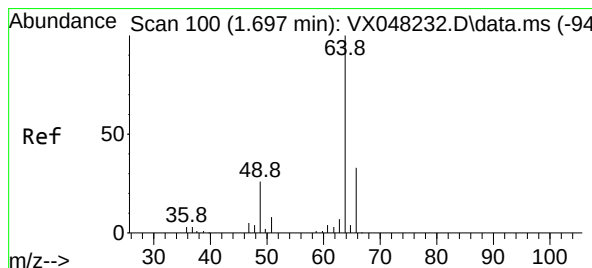
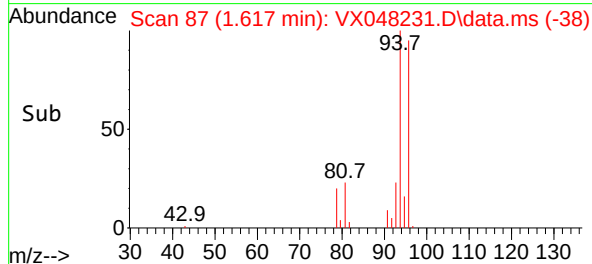
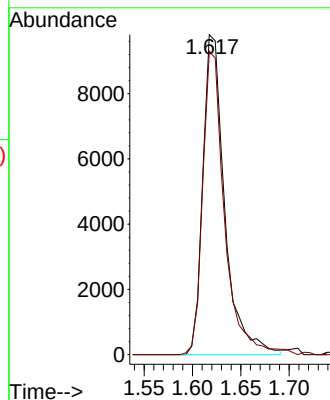
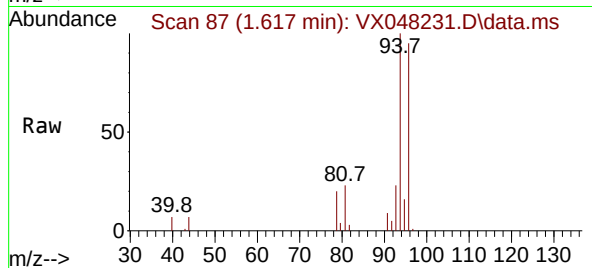
#5
Bromomethane
Concen: 14.517 ug/l
RT: 1.617 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 1547
Ion Ratio Lower Upper
94 100
96 94.8 76.0 114.0

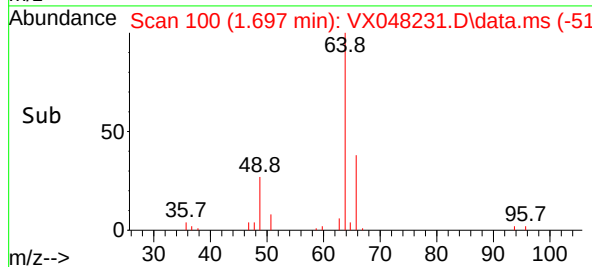
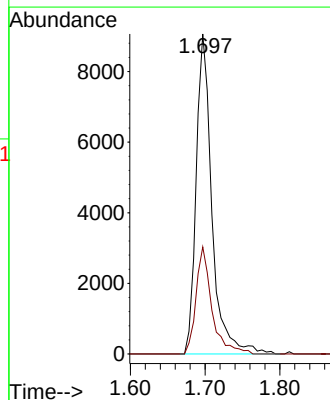
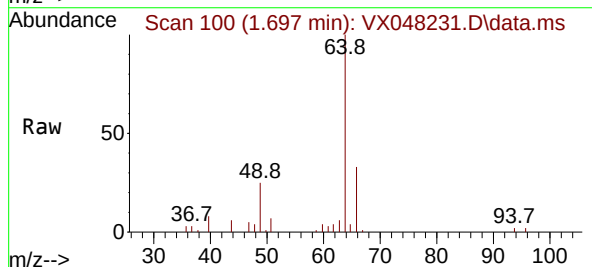
Manual Integrations
APPROVED

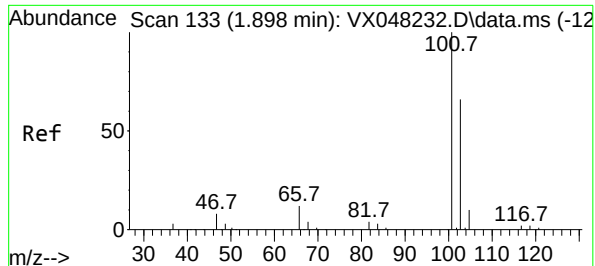
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#6
Chloroethane
Concen: 12.990 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 64 Resp: 13249
Ion Ratio Lower Upper
64 100
66 33.4 23.9 35.9





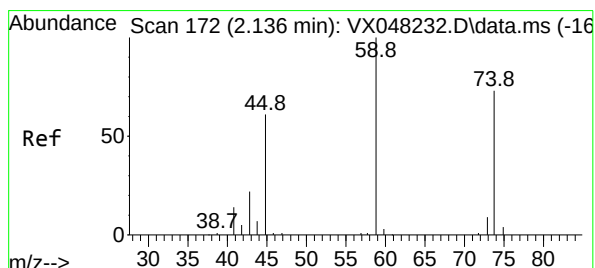
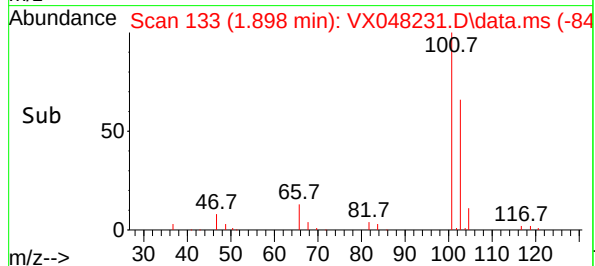
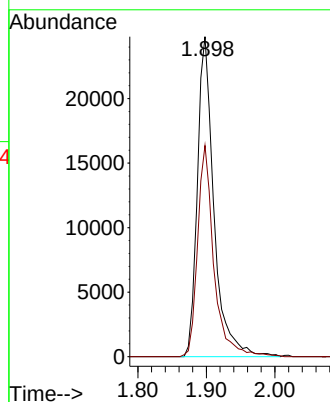
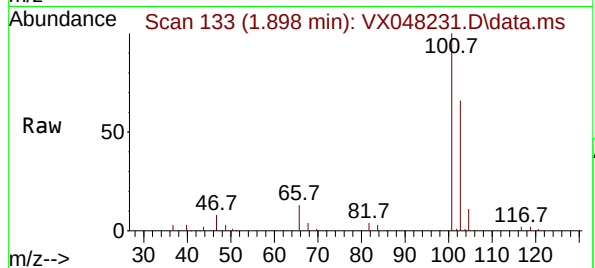
#7
Trichlorofluoromethane
Concen: 16.625 ug/l
RT: 1.898 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 41824
Ion Ratio Lower Upper
101 100
103 66.0 51.6 77.4

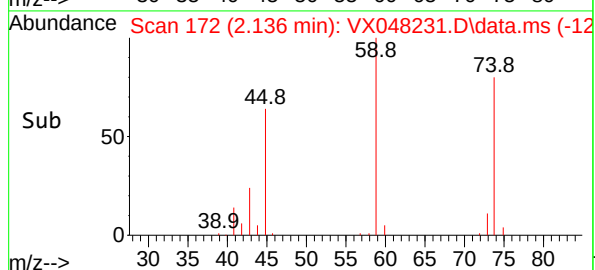
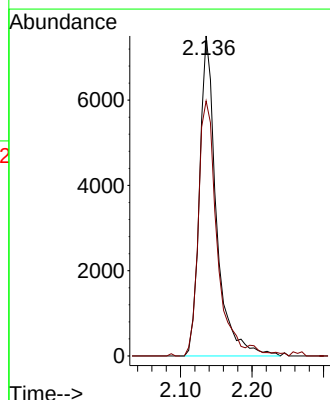
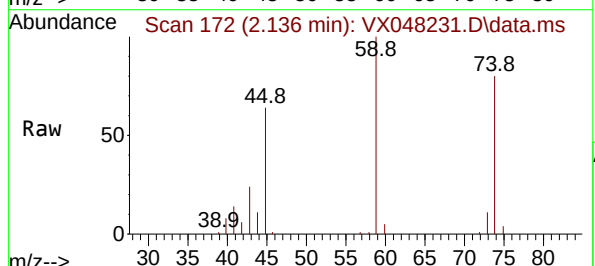
Manual Integrations
APPROVED

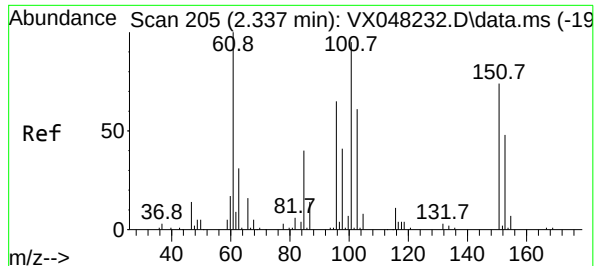
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#8
Diethyl Ether
Concen: 14.325 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 74 Resp: 12293
Ion Ratio Lower Upper
74 100
45 86.6 50.0 149.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.229 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

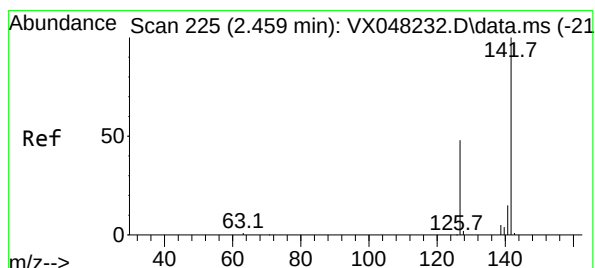
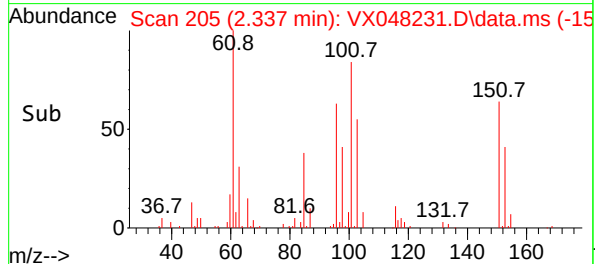
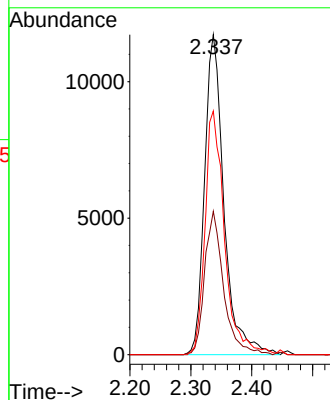
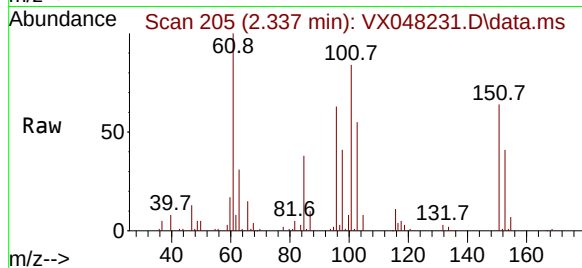
Tgt Ion:	101	Resp:	2584
Ion	Ratio	Lower	Upper
101	100		
85	44.1	35.6	53.4
151	76.9	58.0	87.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#10

Methyl Iodide

Concen: 17.934 ug/l

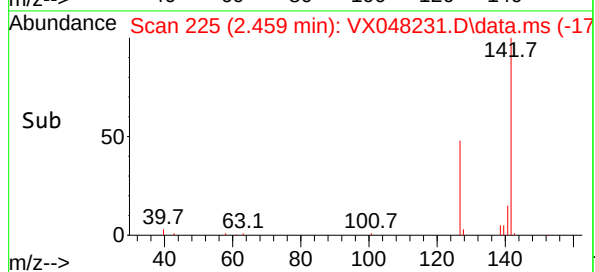
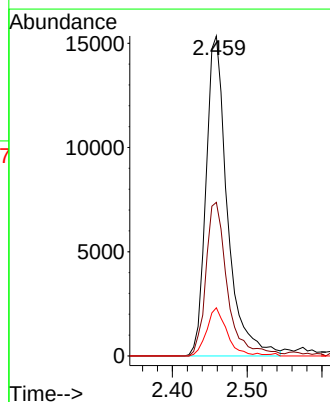
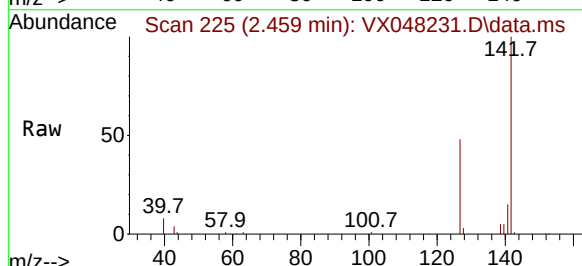
RT: 2.459 min Scan# 225

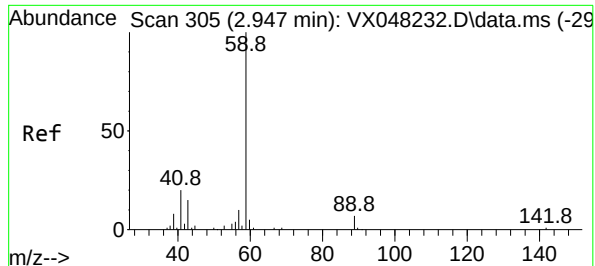
Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Tgt Ion:	142	Resp:	30452
Ion	Ratio	Lower	Upper
142	100		
127	48.4	38.5	57.7
141	14.2	11.6	17.4





#11

Tert butyl alcohol

Concen: 134.353 ug/l

RT: 2.947 min Scan# 305

Delta R.T. 0.006 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 59 Resp: 1652

Ion Ratio Lower Upper

59 100

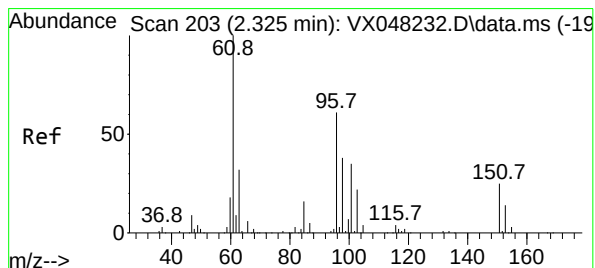
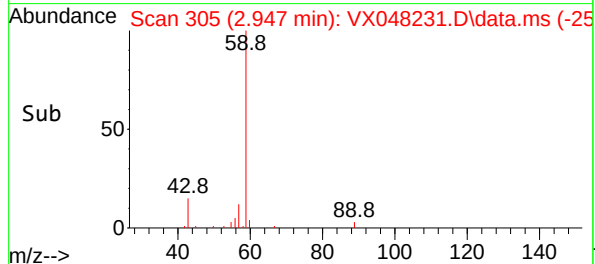
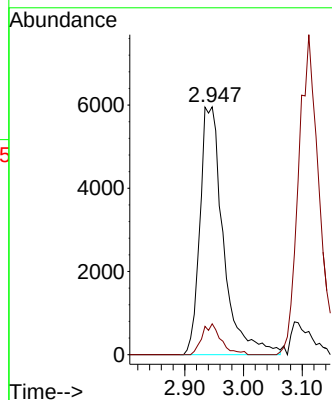
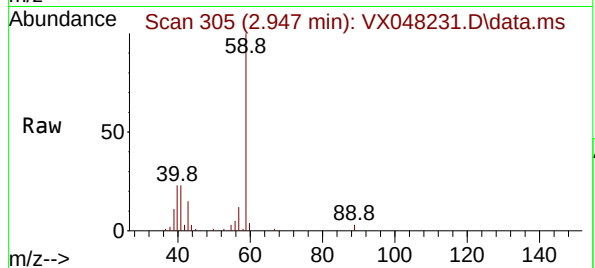
57 10.1 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#12

1,1-Dichloroethene

Concen: 18.907 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

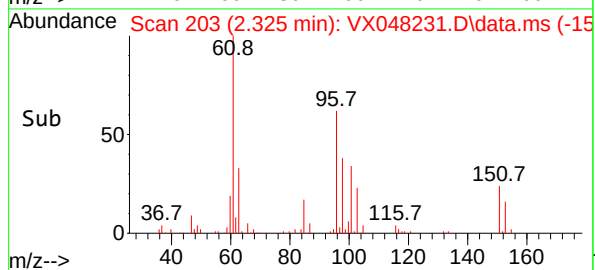
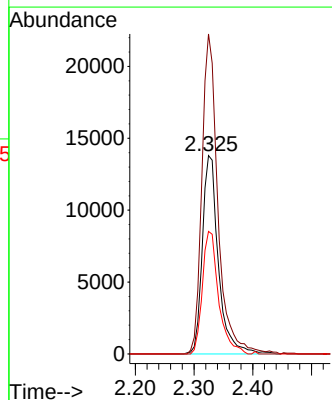
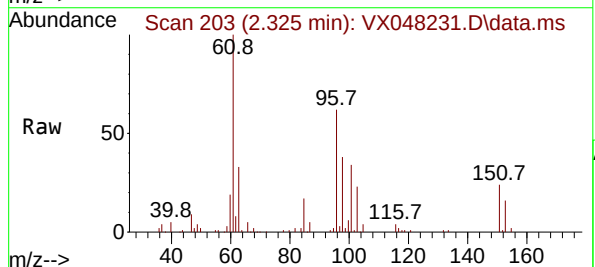
Tgt Ion: 96 Resp: 26209

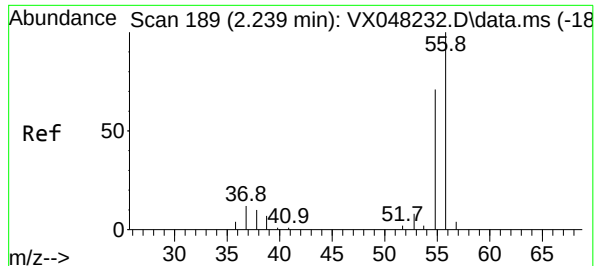
Ion Ratio Lower Upper

96 100

61 161.3 139.0 208.6

98 61.7 52.4 78.6





#13

Acrolein

Concen: 58.651 ug/l

RT: 2.239 min Scan# 189

Delta R.T. 0.006 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 1515

Ion Ratio Lower Upper

56 100

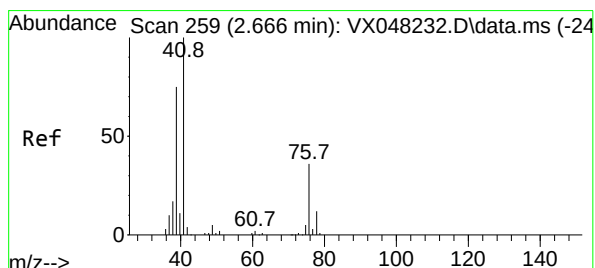
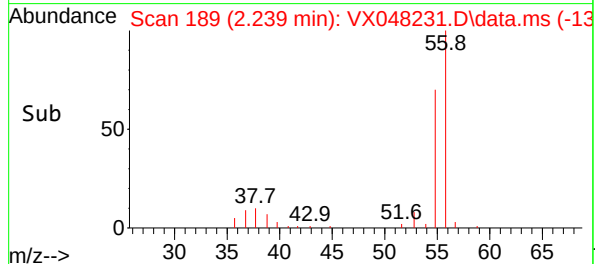
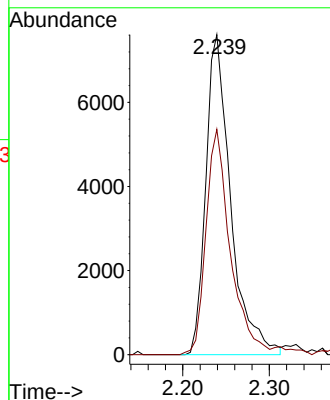
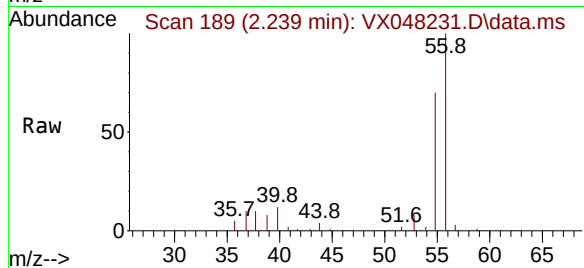
55 70.8 56.1 84.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#14

Allyl chloride

Concen: 17.443 ug/l

RT: 2.666 min Scan# 259

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

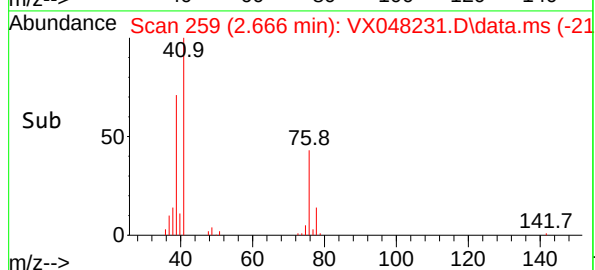
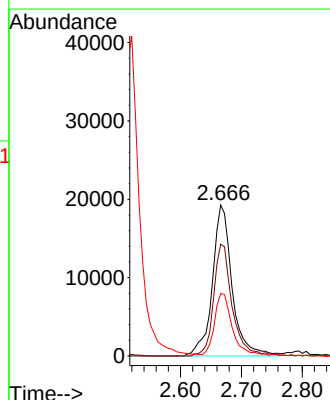
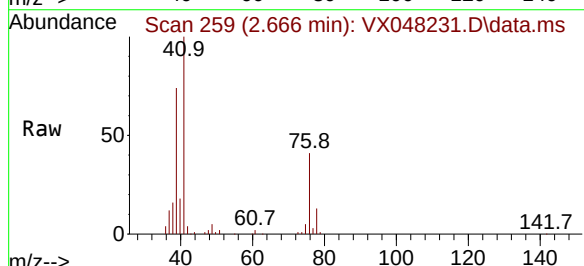
Tgt Ion: 41 Resp: 43494

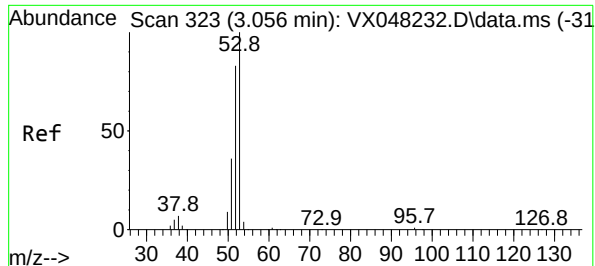
Ion Ratio Lower Upper

41 100

39 69.2 56.0 84.0

76 36.0 27.5 41.3





#15

Acrylonitrile

Concen: 108.499 ug/l

RT: 3.056 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 53 Resp: 6393

Ion Ratio Lower Upper

53 100

52 86.2 66.1 99.1

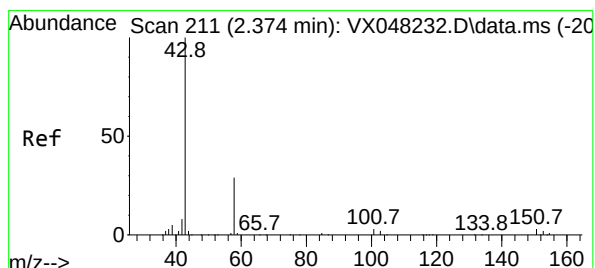
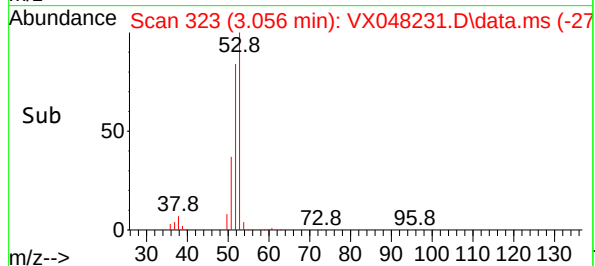
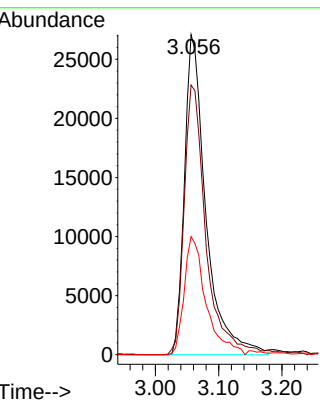
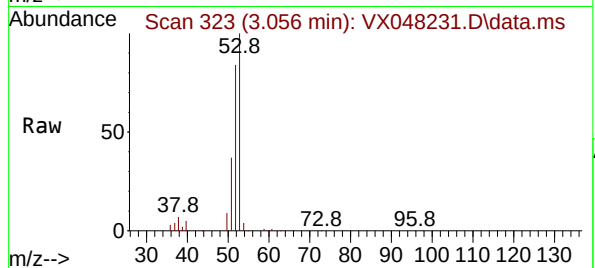
51 37.4 29.0 43.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#16

Acetone

Concen: 94.723 ug/l

RT: 2.373 min Scan# 211

Delta R.T. -0.000 min

Lab File: VX048231.D

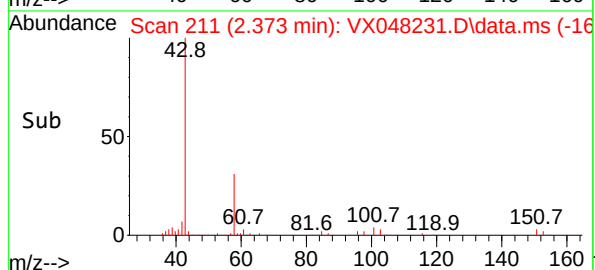
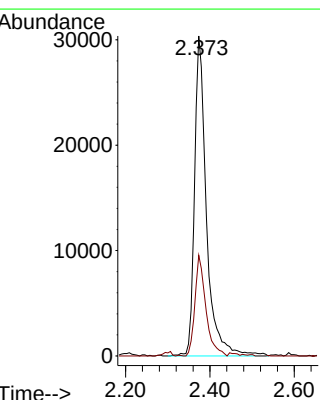
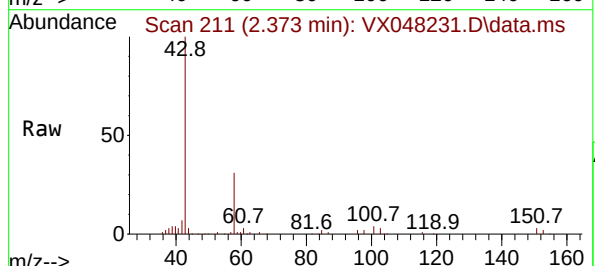
Acq: 20 Oct 2025 11:40

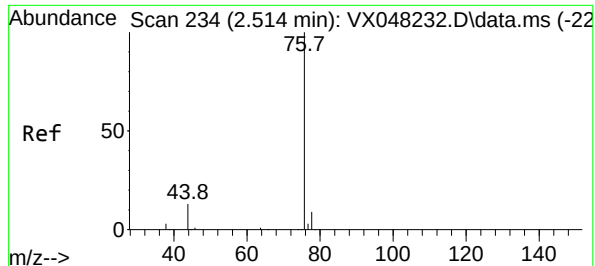
Tgt Ion: 43 Resp: 59884

Ion Ratio Lower Upper

43 100

58 31.3 23.4 35.2





#17

Carbon Disulfide

Concen: 18.087 ug/l

RT: 2.520 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 7714

Ion Ratio Lower Upper

76 100

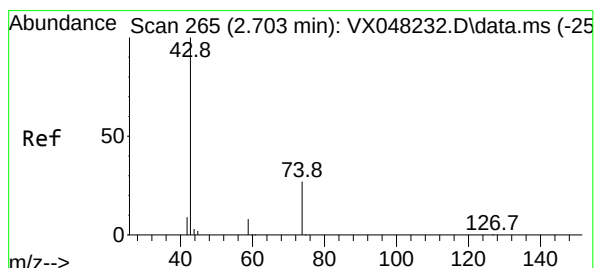
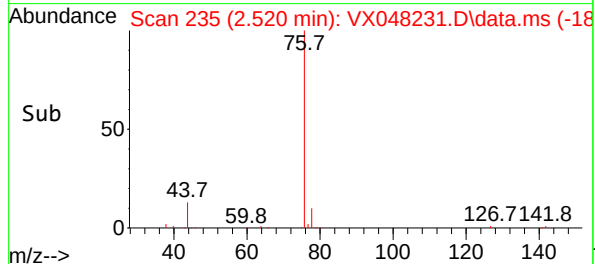
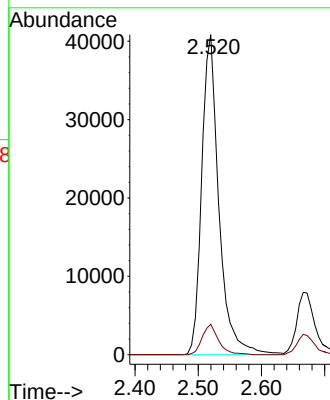
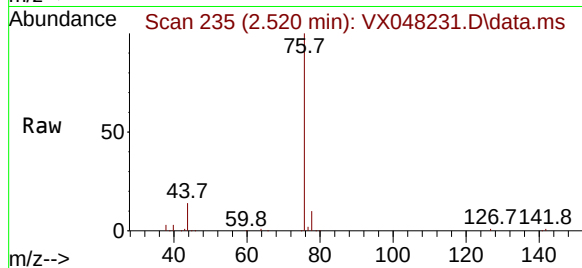
78 9.5 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#18

Methyl Acetate

Concen: 20.482 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.006 min

Lab File: VX048231.D

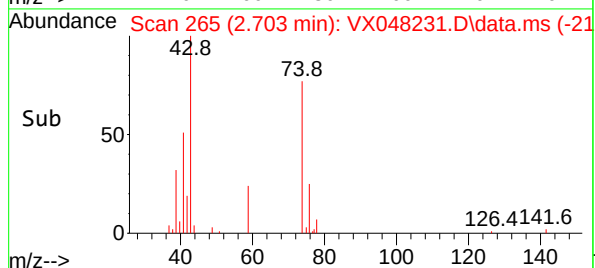
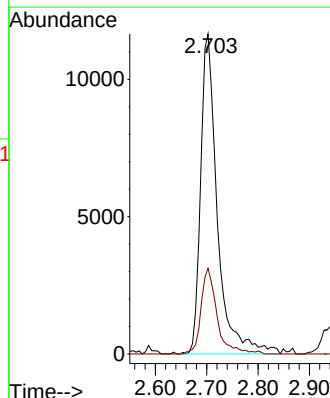
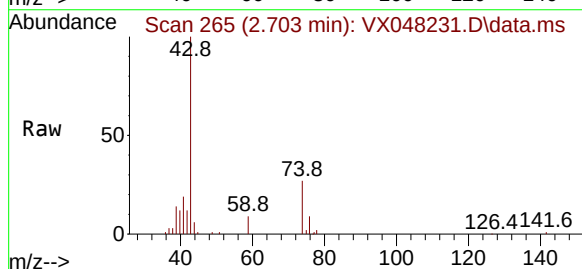
Acq: 20 Oct 2025 11:40

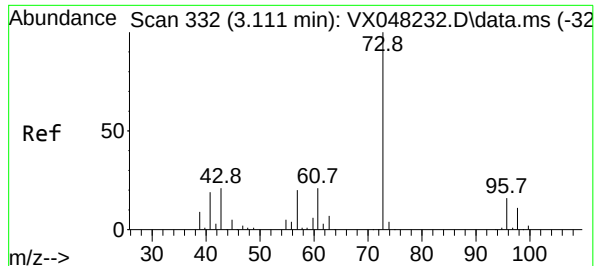
Tgt Ion: 43 Resp: 26374

Ion Ratio Lower Upper

43 100

74 25.7 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 21.877 ug/l

RT: 3.111 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 73 Resp: 91349

Ion Ratio Lower Upper

73 100

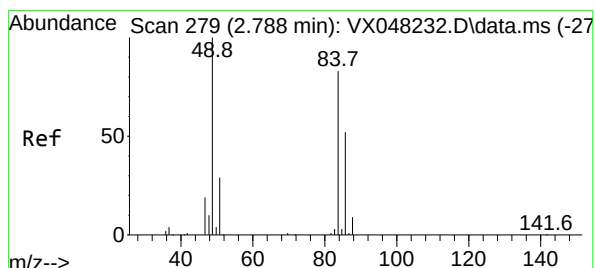
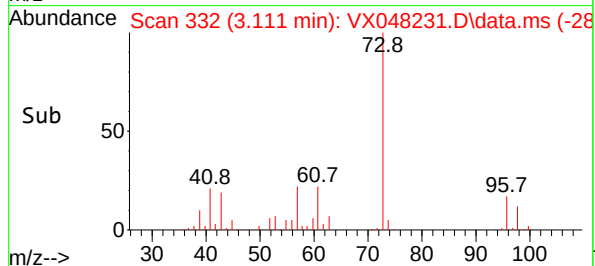
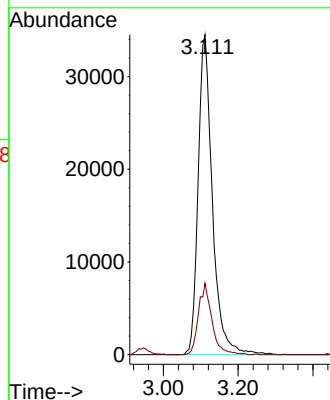
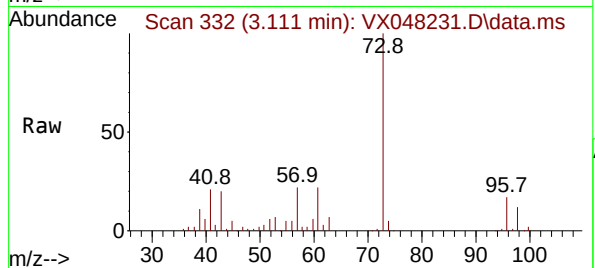
57 22.3 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#20

Methylene Chloride

Concen: 20.231 ug/l

RT: 2.794 min Scan# 280

Delta R.T. 0.006 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Tgt Ion: 84 Resp: 31157

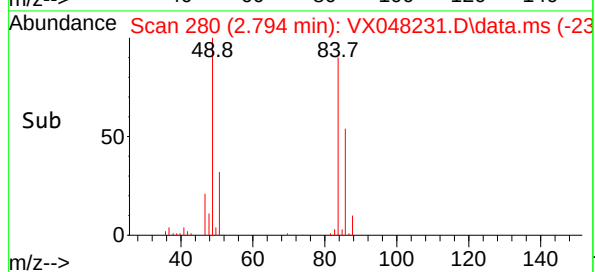
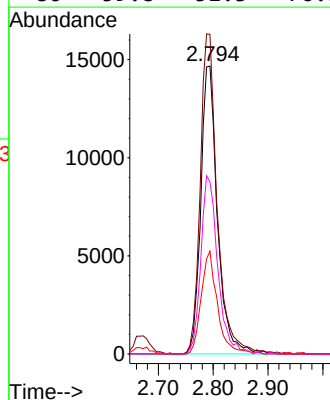
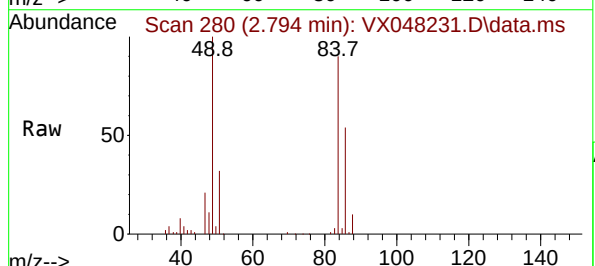
Ion Ratio Lower Upper

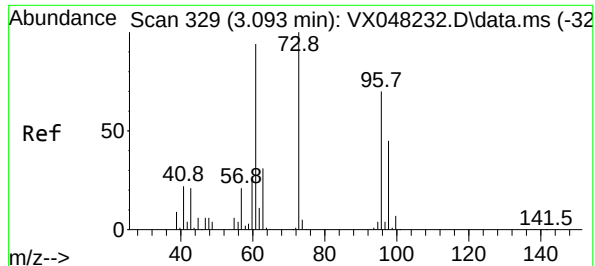
84 100

49 111.1 104.1 156.1

51 35.7 31.3 46.9

86 59.8 51.3 76.9





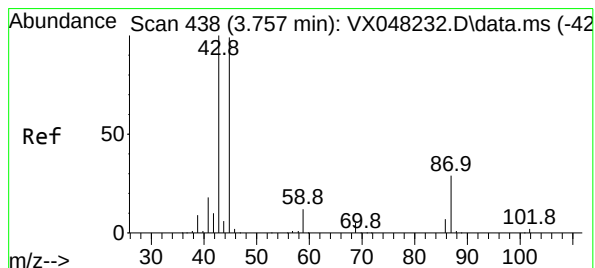
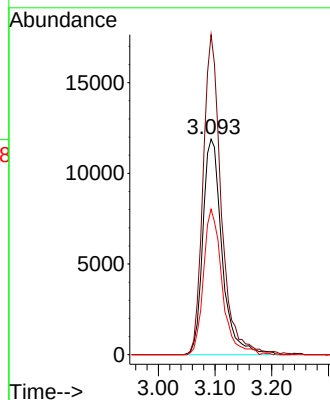
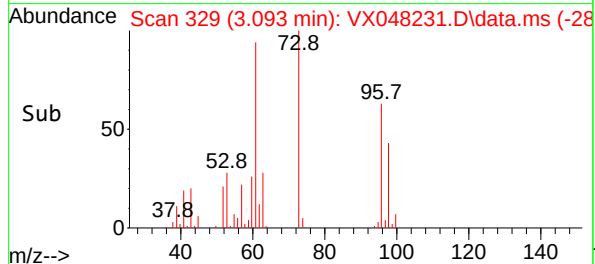
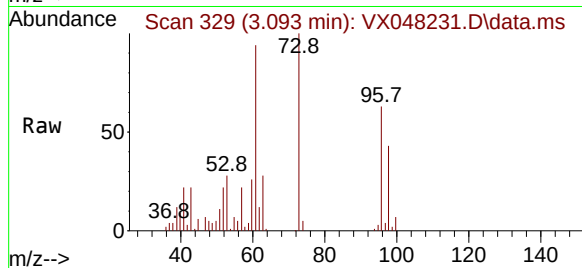
#21
trans-1,2-Dichloroethene
Concen: 19.525 ug/l
RT: 3.093 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 2800
Ion Ratio Lower Upper
96 100
61 148.5 111.9 167.9
98 67.5 51.2 76.8

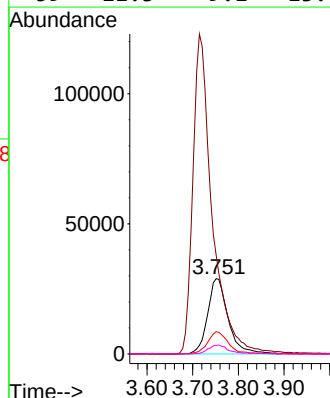
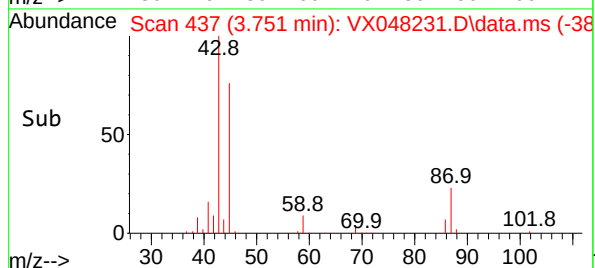
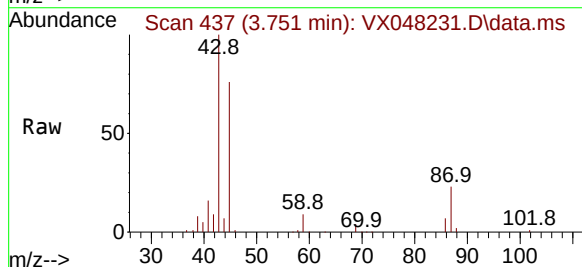
Manual Integrations
APPROVED

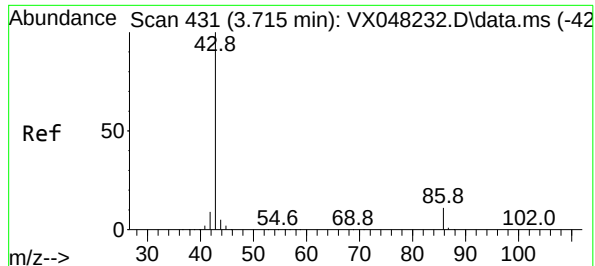
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#22
Diisopropyl ether
Concen: 18.439 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 45 Resp: 90030
Ion Ratio Lower Upper
45 100
43 129.3 89.8 134.8
87 29.6 20.6 31.0
59 11.3 9.1 13.7





#23

Vinyl Acetate

Concen: 99.706 ug/l

RT: 3.715 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 364009

Ion Ratio Lower Upper

43

100

86

10.6

7.9

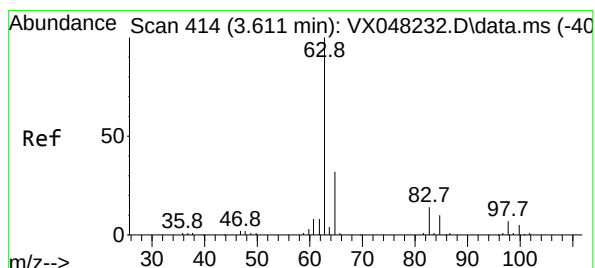
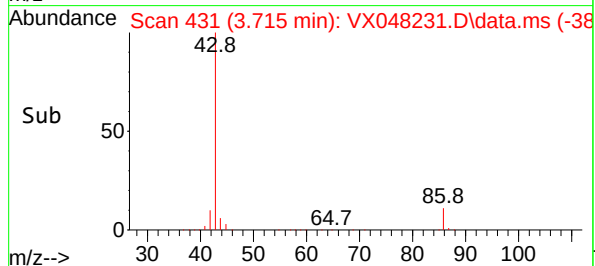
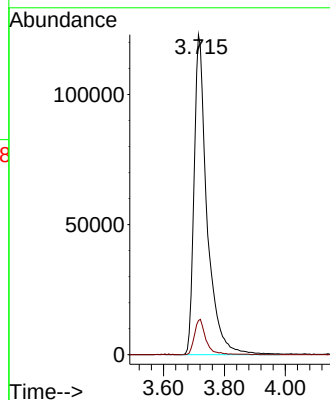
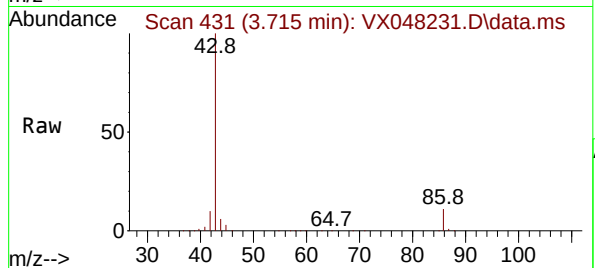
11.9

Manual Integrations

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Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#24

1,1-Dichloroethane

Concen: 18.746 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Tgt Ion: 63 Resp: 51927

Ion Ratio Lower Upper

63

100

98

100

6.8

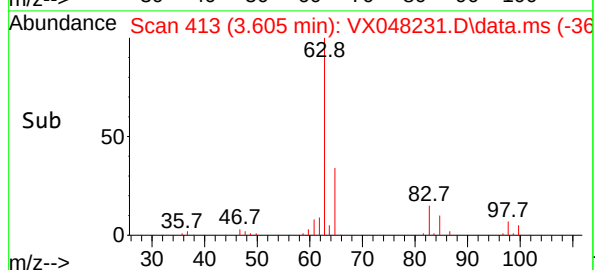
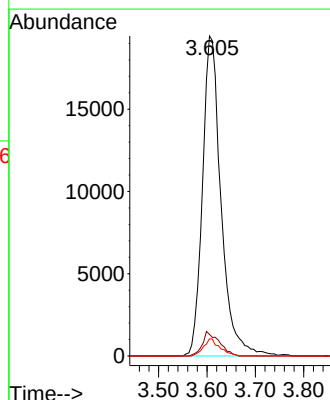
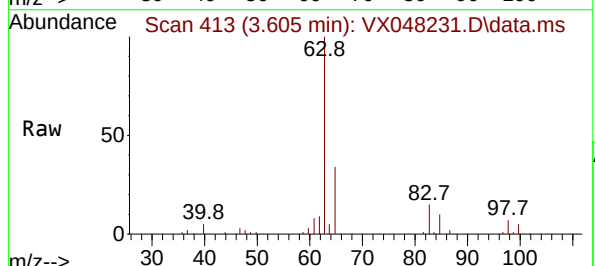
5.4

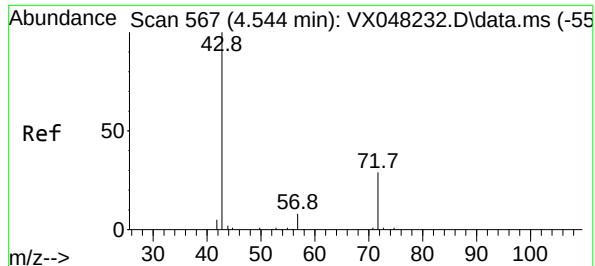
3.5

2.1

10.6

6.3





#25

2-Butanone

Concen: 106.774 ug/l

RT: 4.544 min Scan# 50

Delta R.T. 0.006 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 7864

Ion Ratio Lower Upper

43 100

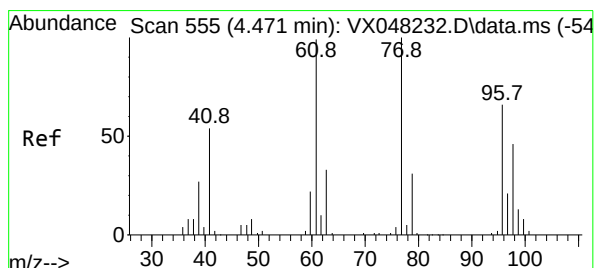
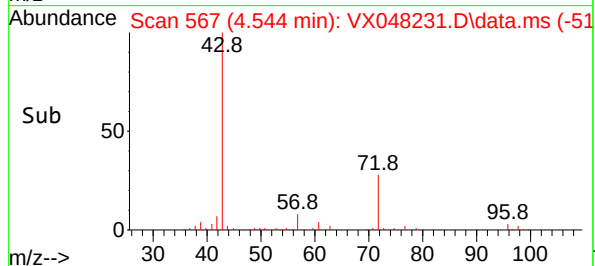
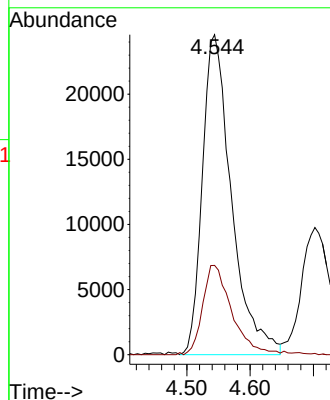
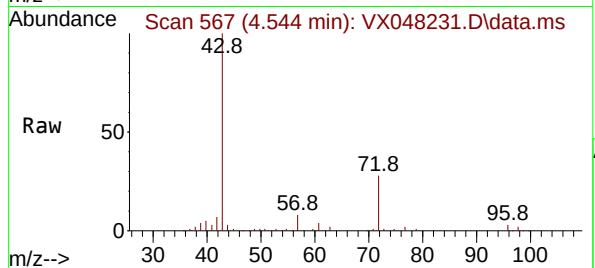
72 27.6 19.9 29.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#26

2,2-Dichloropropane

Concen: 19.669 ug/l

RT: 4.465 min Scan# 554

Delta R.T. -0.000 min

Lab File: VX048231.D

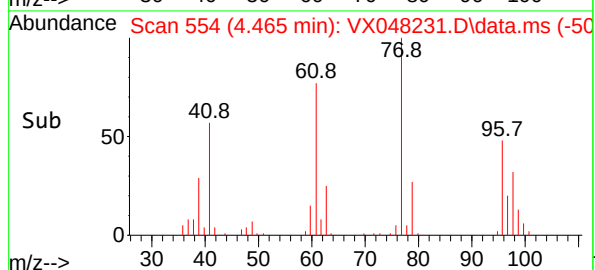
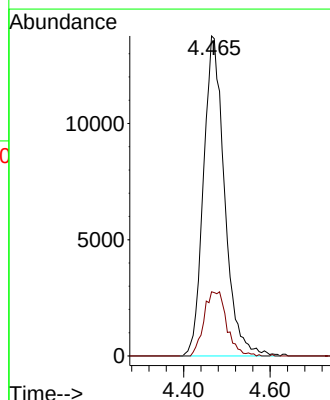
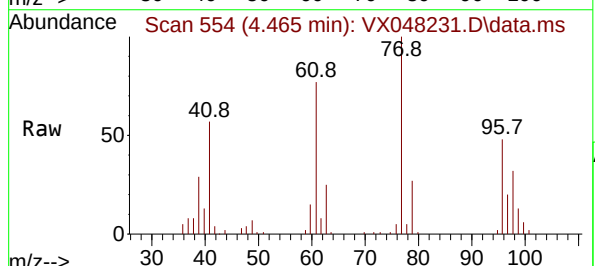
Acq: 20 Oct 2025 11:40

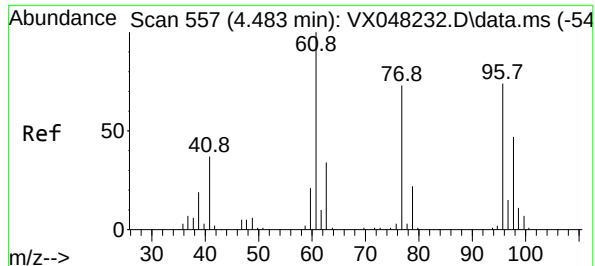
Tgt Ion: 77 Resp: 46568

Ion Ratio Lower Upper

77 100

97 21.7 11.1 33.3





#27

cis-1,2-Dichloroethene

Concen: 19.688 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 96 Resp: 33508

Ion Ratio Lower Upper

96 100

61 143.9 0.0 294.2

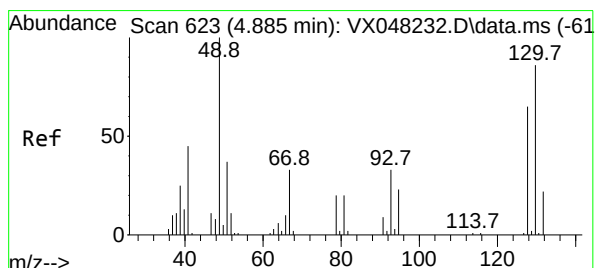
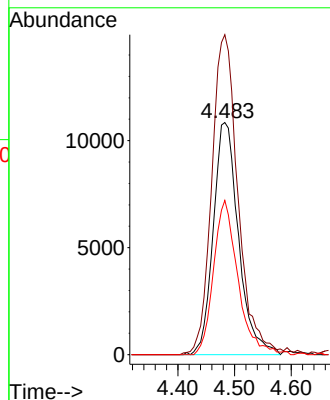
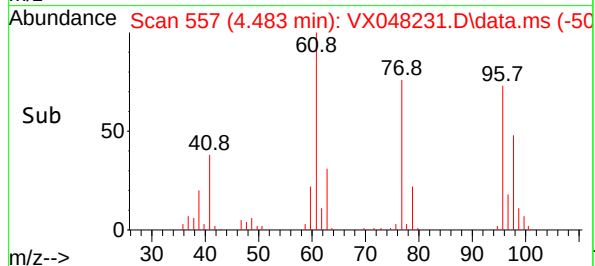
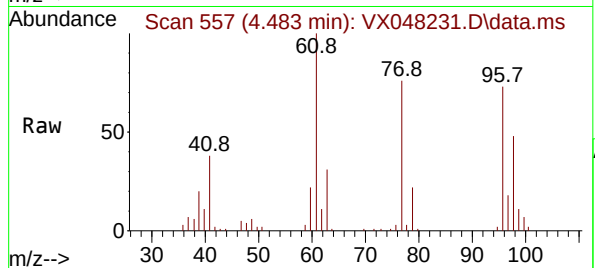
98 64.3 0.0 128.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#28

Bromochloromethane

Concen: 15.146 ug/l

RT: 4.891 min Scan# 624

Delta R.T. 0.006 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

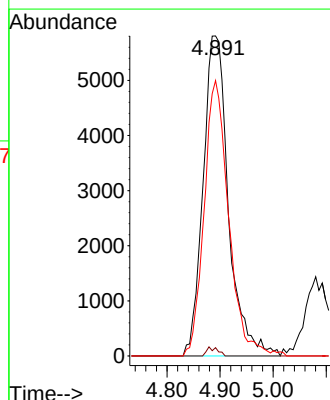
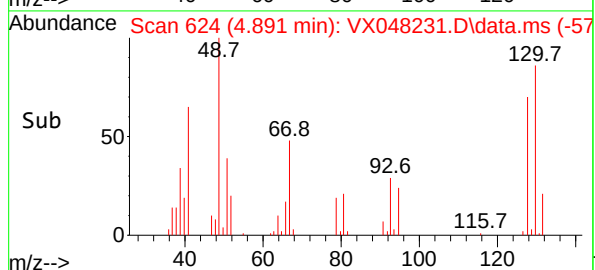
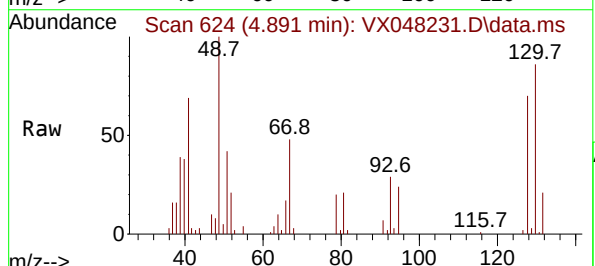
Tgt Ion: 49 Resp: 19339

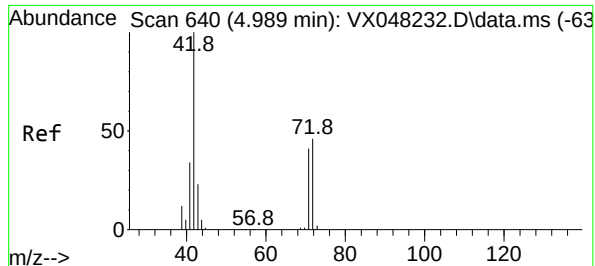
Ion Ratio Lower Upper

49 100

129 1.2 0.0 4.4

130 82.7 59.3 88.9





#29

Tetrahydrofuran

Concen: 109.718 ug/l

RT: 4.995 min Scan# 641

Delta R.T. 0.006 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

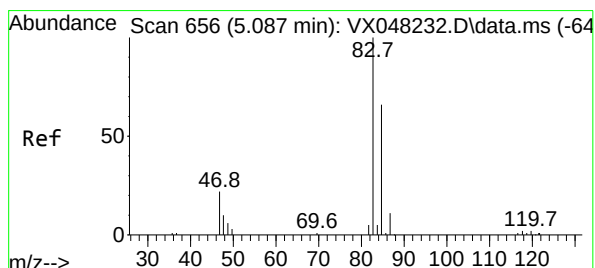
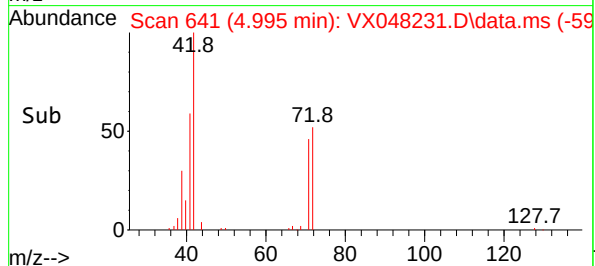
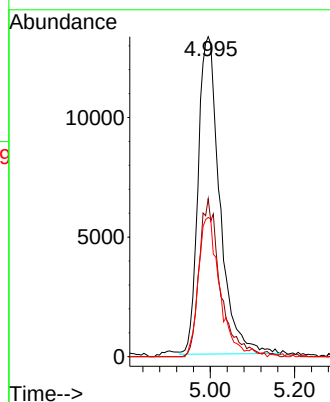
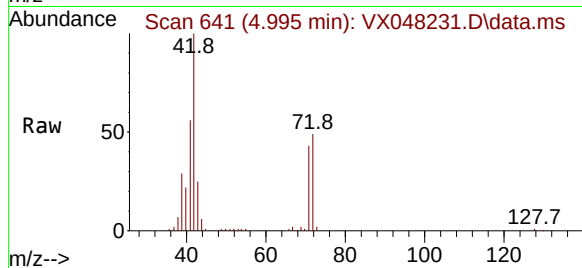
Tgt Ion:	42	Resp:	4745
Ion	Ratio	Lower	Upper
42	100		
72	48.5	35.3	52.9
71	43.2	32.2	48.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#30

Chloroform

Concen: 19.813 ug/l

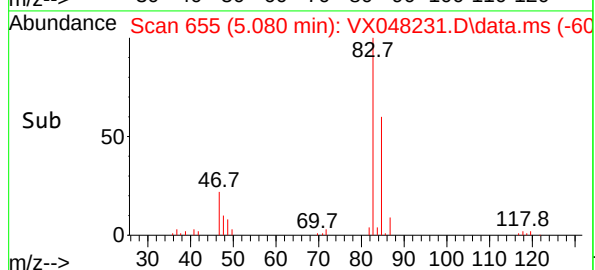
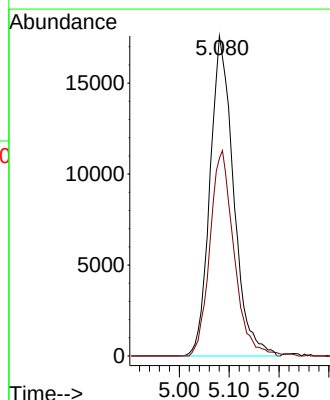
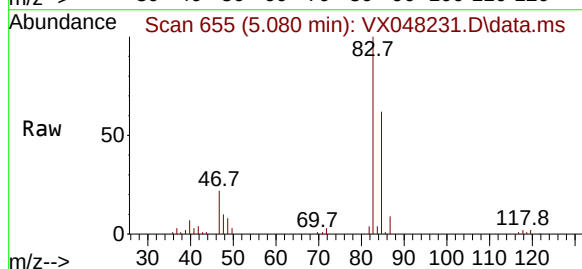
RT: 5.080 min Scan# 655

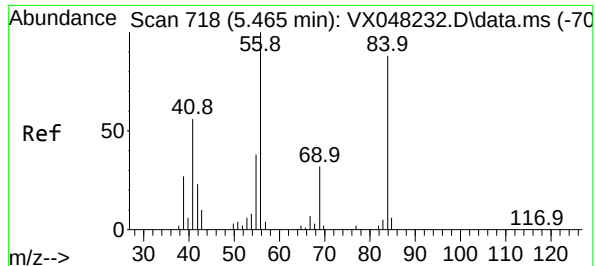
Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Tgt Ion:	83	Resp:	57780
Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.1	75.1





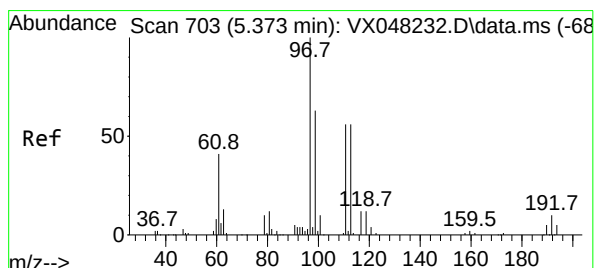
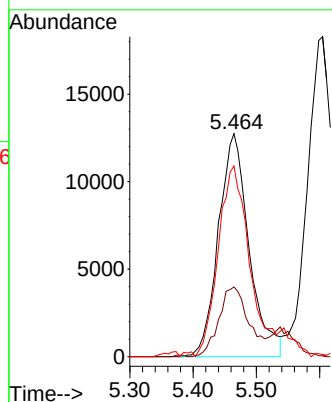
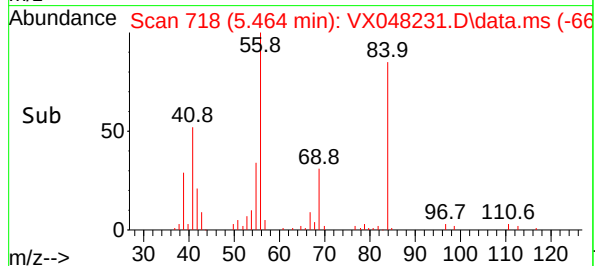
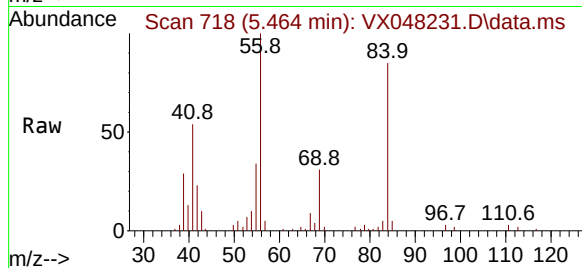
#31
Cyclohexane
Concen: 18.882 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 42790
Ion Ratio Lower Upper
56 100
69 30.6 23.0 34.6
84 85.5 64.6 97.0

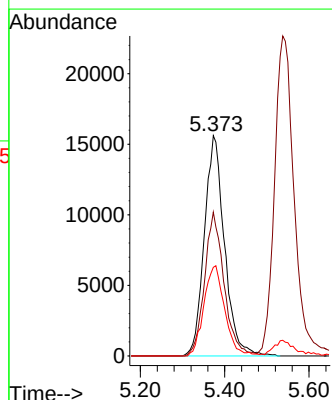
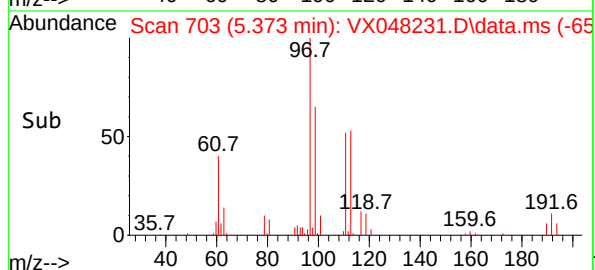
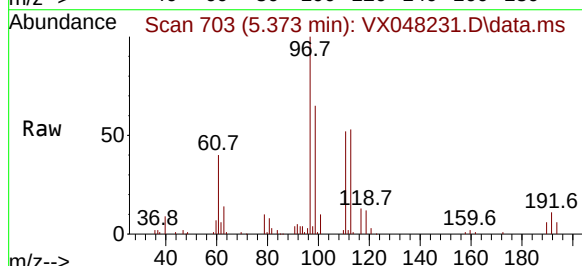
Manual Integrations
APPROVED

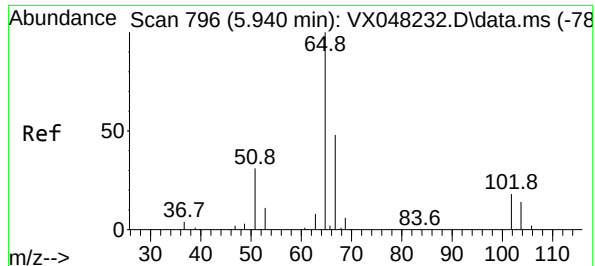
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#32
1,1,1-Trichloroethane
Concen: 21.672 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 97 Resp: 51929
Ion Ratio Lower Upper
97 100
99 63.0 51.7 77.5
61 42.4 34.8 52.2





#33

1,2-Dichloroethane-d4

Concen: 18.312 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 65 Resp: 33930

Ion Ratio Lower Upper

65 100

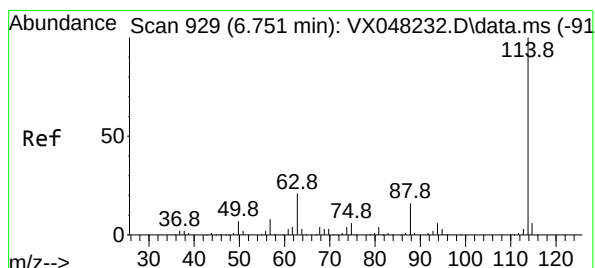
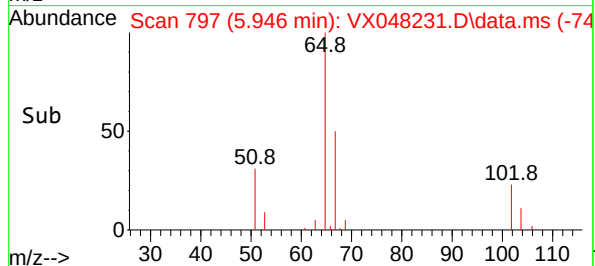
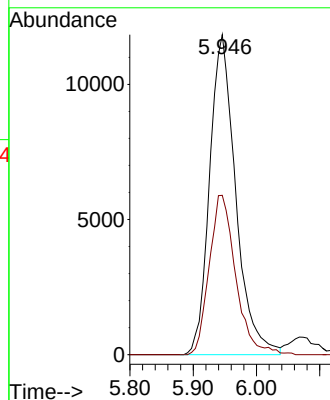
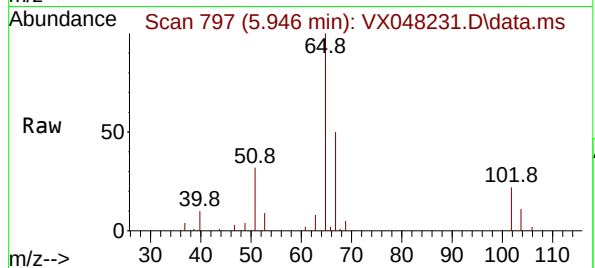
67 50.6 0.0 105.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

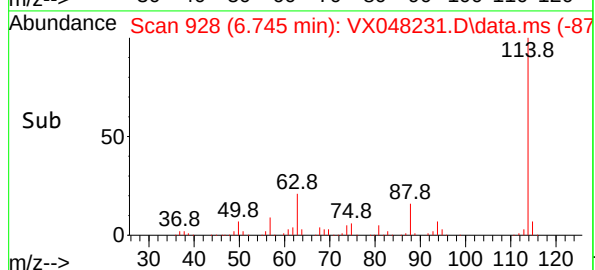
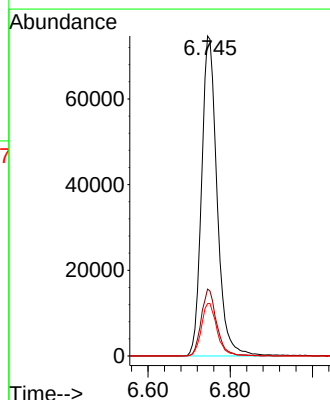
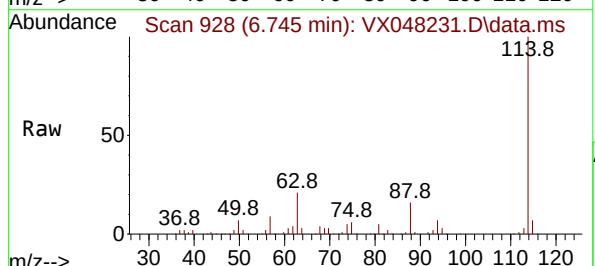
Tgt Ion:114 Resp: 195028

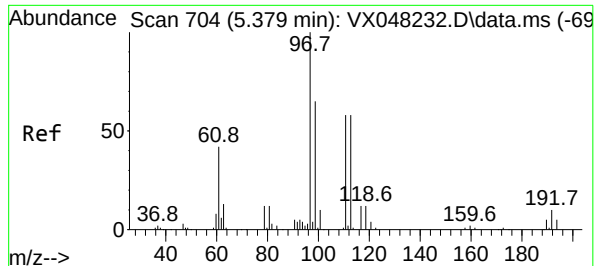
Ion Ratio Lower Upper

114 100

63 20.9 0.0 43.2

88 16.4 0.0 33.6





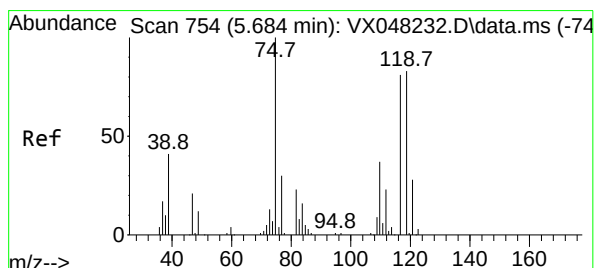
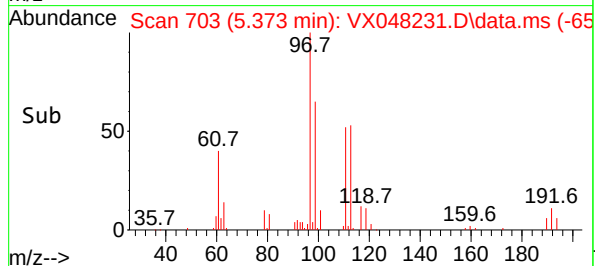
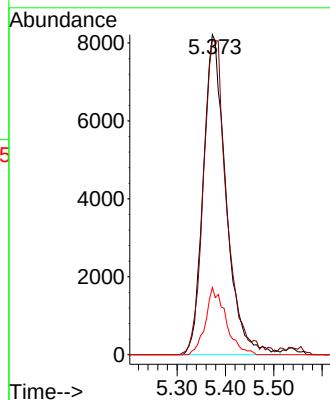
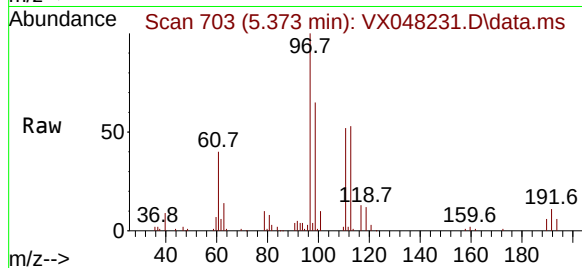
#35
Dibromofluoromethane
Concen: 19.872 ug/l
RT: 5.373 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.7	82.2	123.4
192	18.8	15.1	22.7

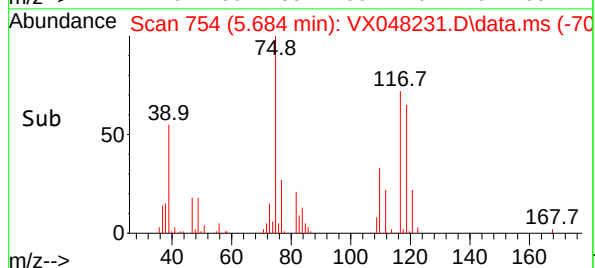
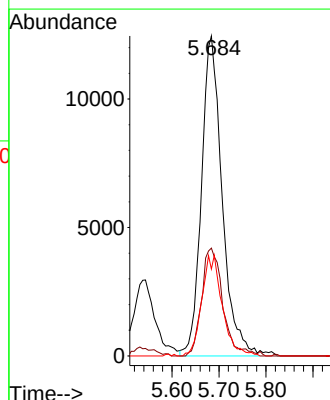
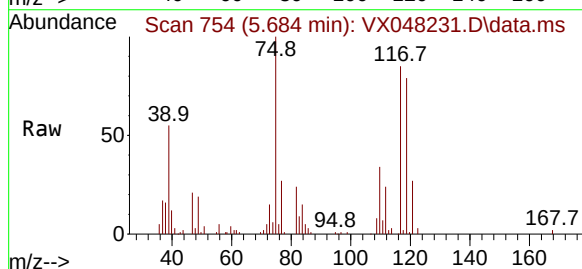
Manual Integrations
APPROVED

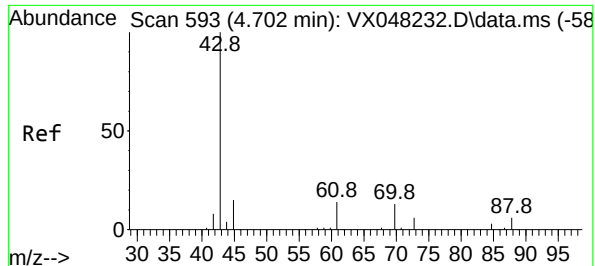
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#36
1,1-Dichloropropene
Concen: 20.071 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion	Ratio	Lower	Upper
75	100		
110	34.6	17.7	53.1
77	31.1	24.3	36.5





#37

Ethyl Acetate

Concen: 20.280 ug/l

RT: 4.702 min Scan# 593

Delta R.T. 0.006 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

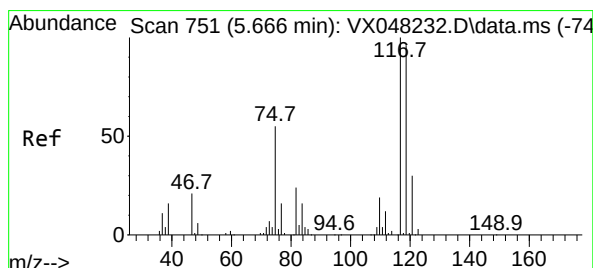
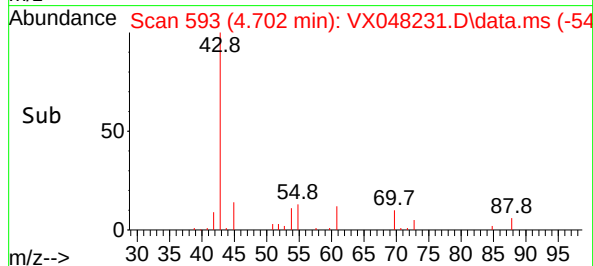
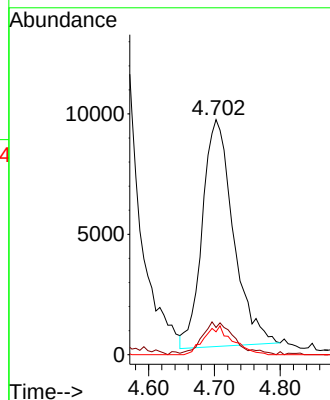
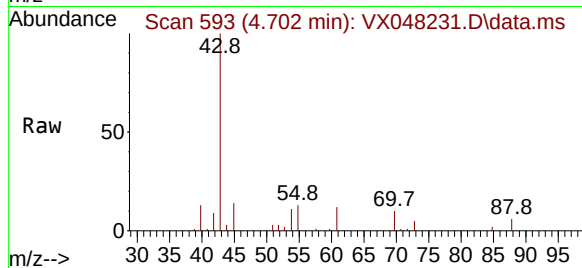
ClientSampleId :

VSTDICC020

Tgt Ion:	43	Resp:	30904
Ion	Ratio	Lower	Upper
43	100		
61	14.8	10.6	15.8
70	11.7	7.8	11.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#38

Carbon Tetrachloride

Concen: 21.166 ug/l

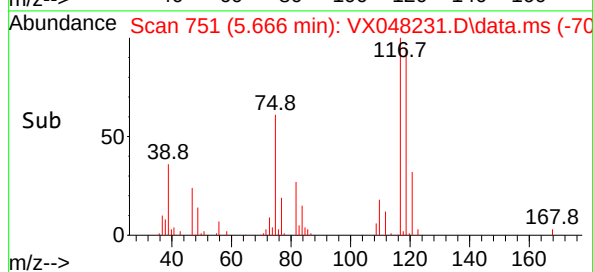
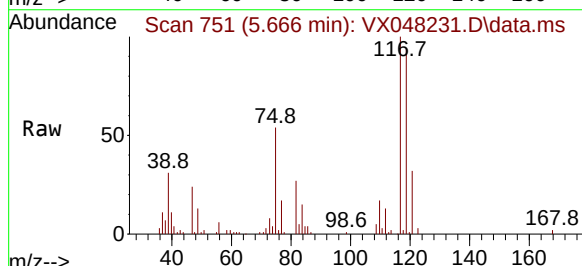
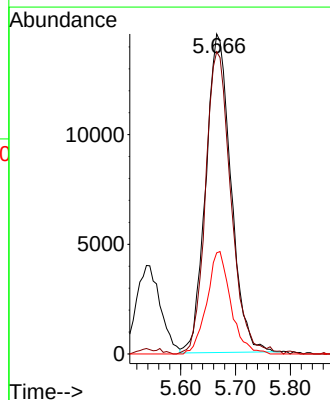
RT: 5.666 min Scan# 751

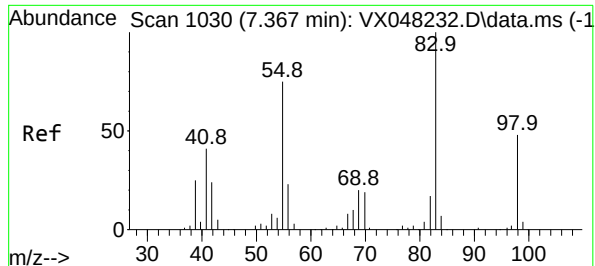
Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Tgt Ion:	117	Resp:	46323
Ion	Ratio	Lower	Upper
117	100		
119	94.7	77.2	115.8
121	31.8	24.8	37.2





#39

Methylcyclohexane

Concen: 19.897 ug/l

RT: 7.366 min Scan# 1030

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

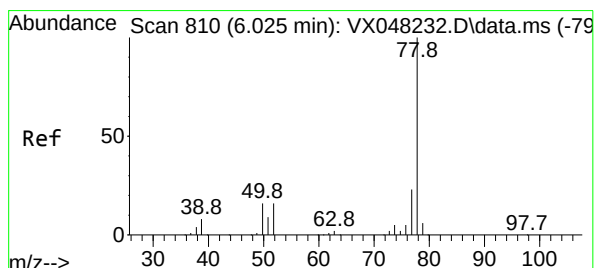
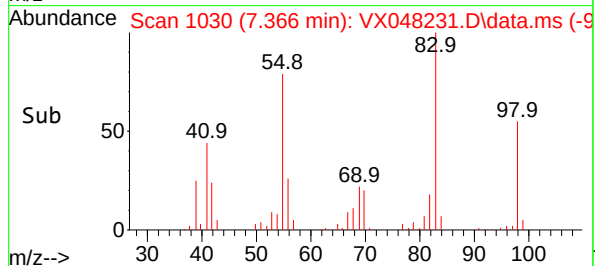
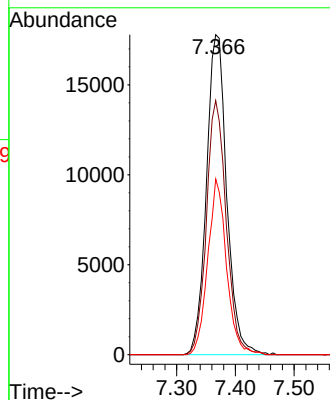
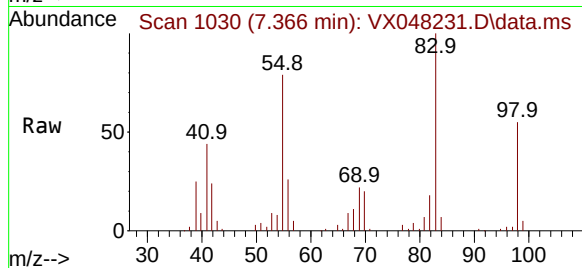
VSTDICC020

Tgt Ion:	83	Resp:	42770
Ion	Ratio	Lower	Upper
83	100		
55	79.4	66.2	99.2
98	54.9	38.9	58.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#40

Benzene

Concen: 20.398 ug/l

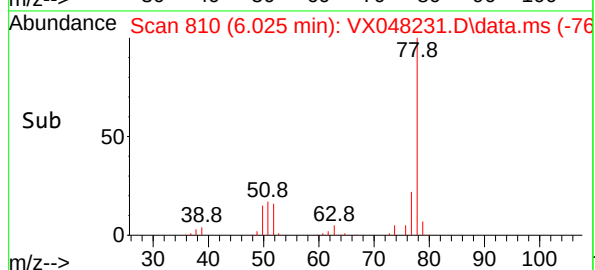
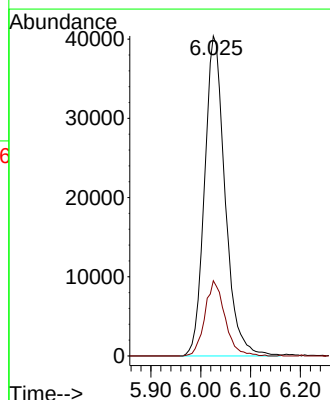
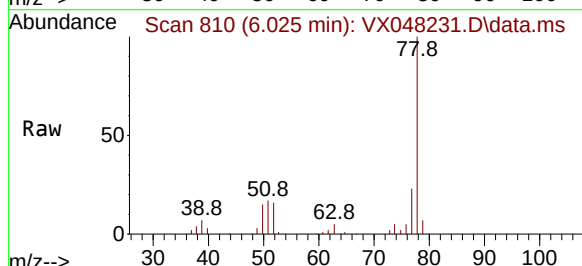
RT: 6.025 min Scan# 810

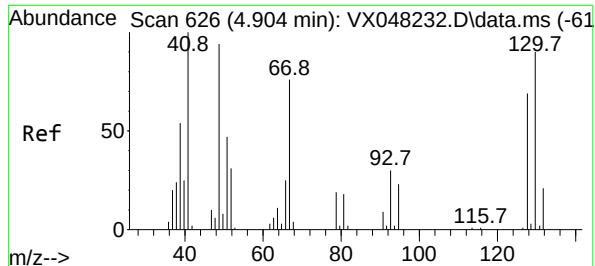
Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

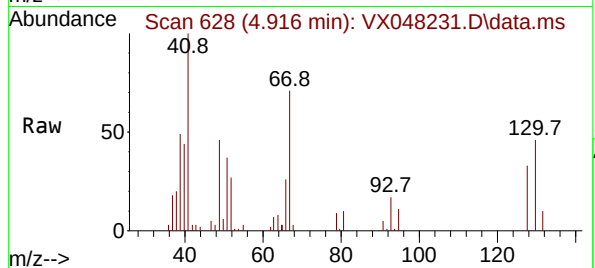
Tgt Ion:	78	Resp:	115488
Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.3	28.9





#41
Methacrylonitrile
Concen: 22.621 ug/l
RT: 4.916 min Scan# 61
Delta R.T. 0.012 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

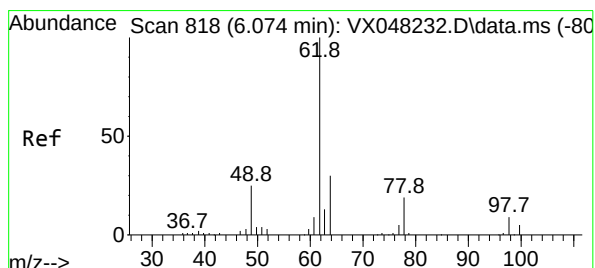
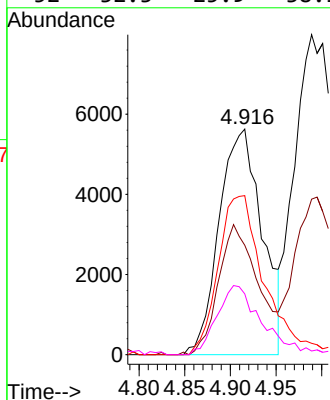
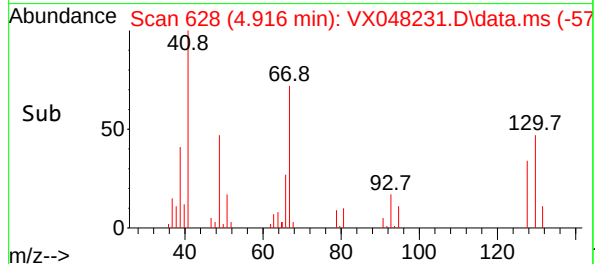
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 41 Resp: 1846
Ion Ratio Lower Upper
41 100
39 53.4 44.0 66.0
67 76.9 58.7 88.1
52 32.3 25.9 38.9

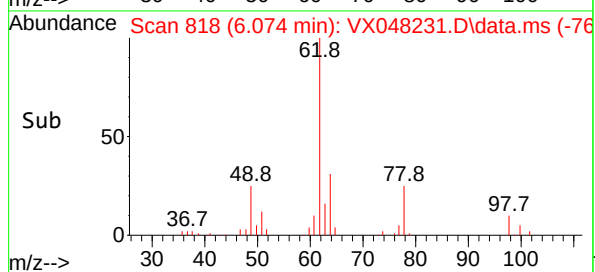
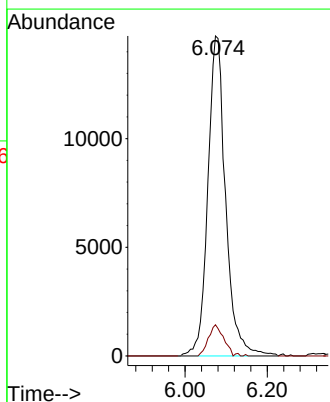
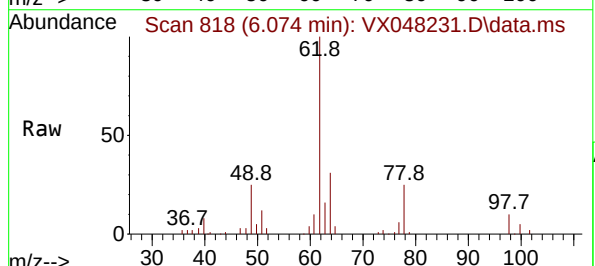
Manual Integrations
APPROVED

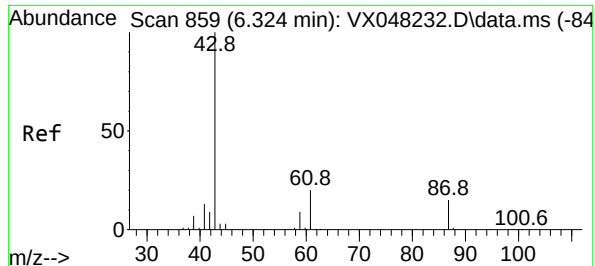
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#42
1,2-Dichloroethane
Concen: 21.778 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 62 Resp: 44176
Ion Ratio Lower Upper
62 100
98 8.5 0.0 17.2





#43

Isopropyl Acetate

Concen: 21.625 ug/l

RT: 6.324 min Scan# 859

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

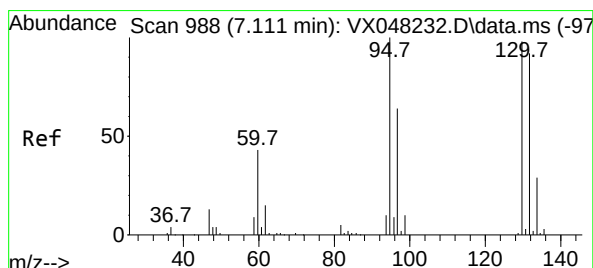
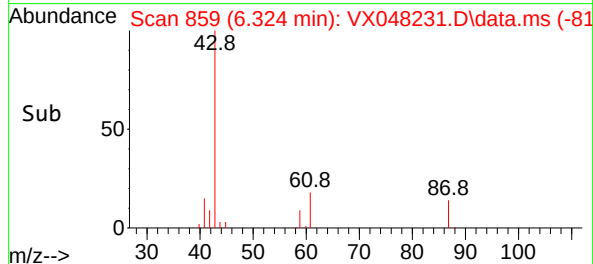
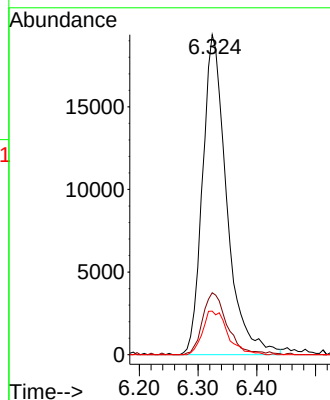
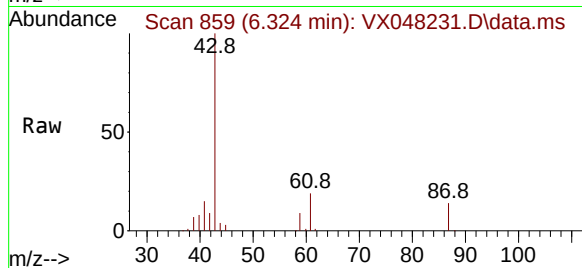
VSTDIC020

Tgt Ion:	43	Resp:	5531
Ion	Ratio	Lower	Upper
43	100		
61	19.9	14.9	22.3
87	14.1	9.4	14.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#44

Trichloroethene

Concen: 20.399 ug/l

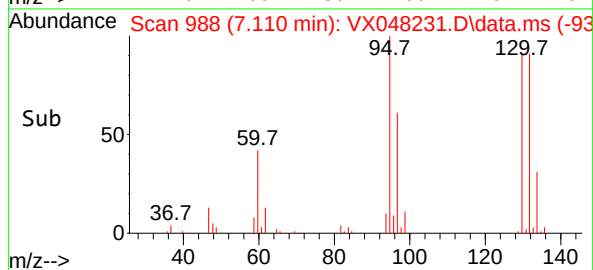
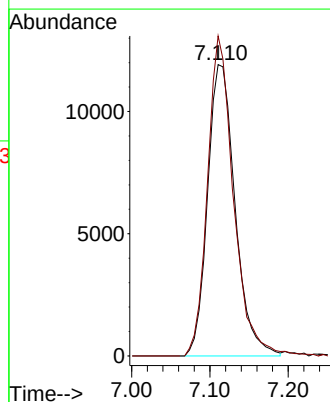
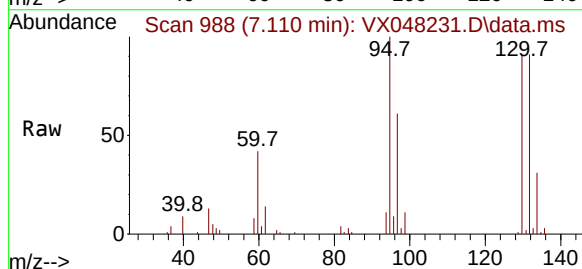
RT: 7.110 min Scan# 988

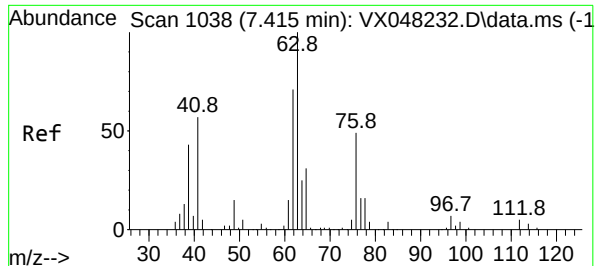
Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Tgt Ion:	130	Resp:	29108
Ion	Ratio	Lower	Upper
130	100		
95	109.8	0.0	200.6





#45

1,2-Dichloropropane

Concen: 19.709 ug/l

RT: 7.421 min Scan# 1039

Delta R.T. 0.006 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 2824

Ion Ratio Lower Upper

63 100

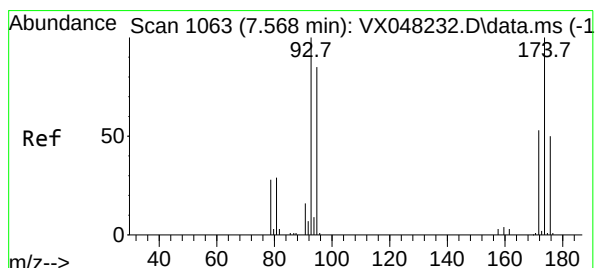
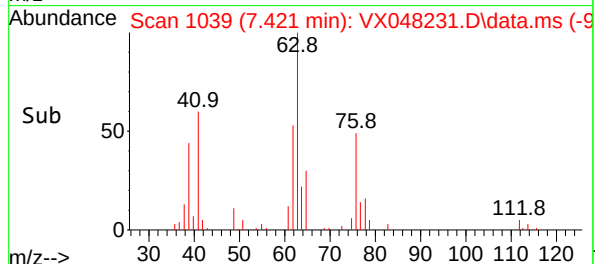
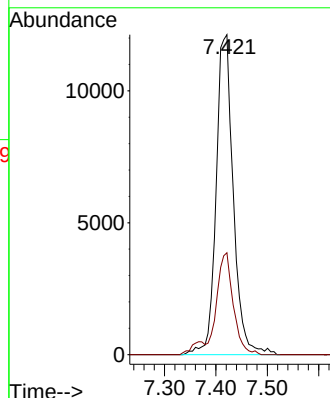
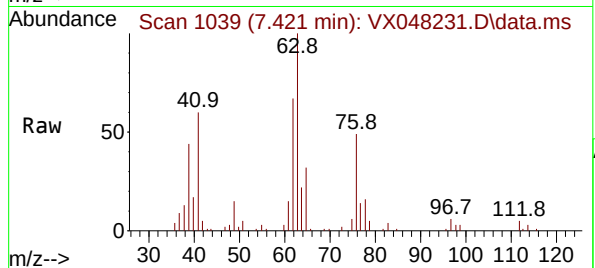
65 31.8 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#46

Dibromomethane

Concen: 20.955 ug/l

RT: 7.568 min Scan# 1063

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

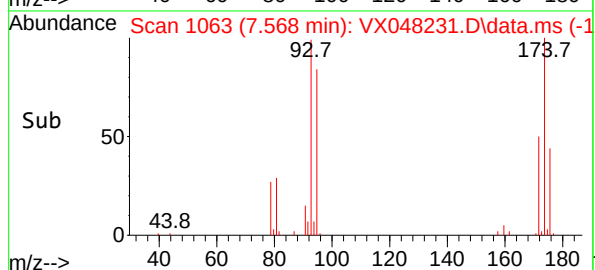
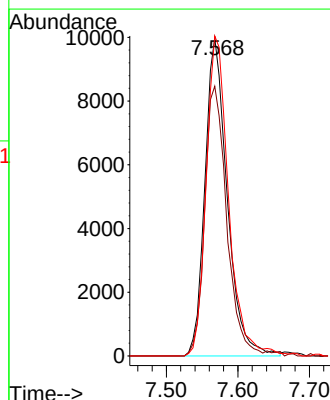
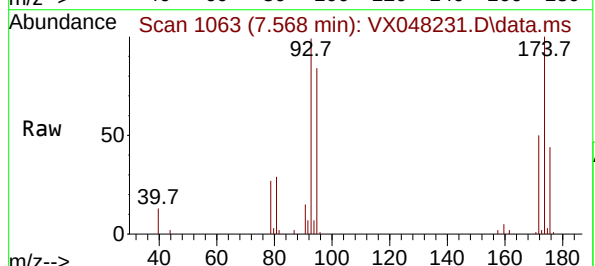
Tgt Ion: 93 Resp: 21605

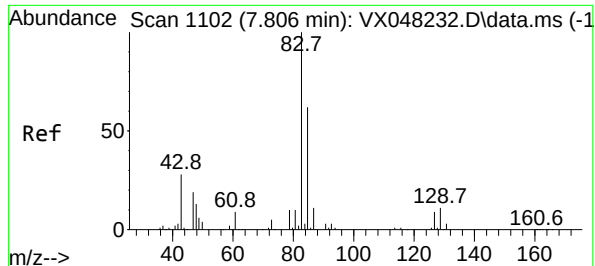
Ion Ratio Lower Upper

93 100

95 84.4 65.9 98.9

174 101.4 71.7 107.5





#47

Bromodichloromethane

Concen: 20.743 ug/l

RT: 7.805 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

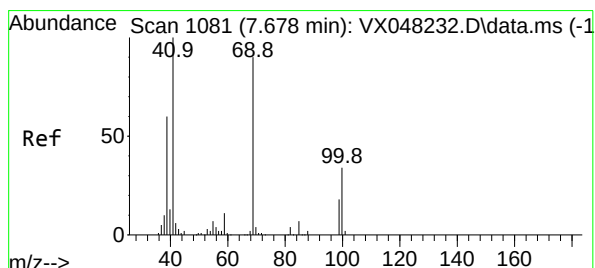
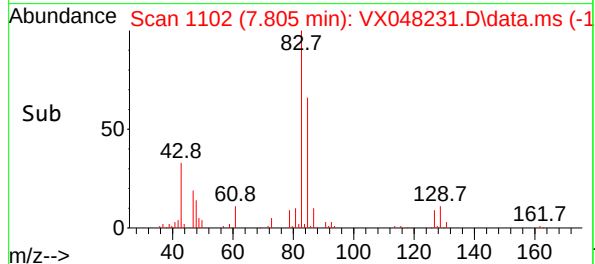
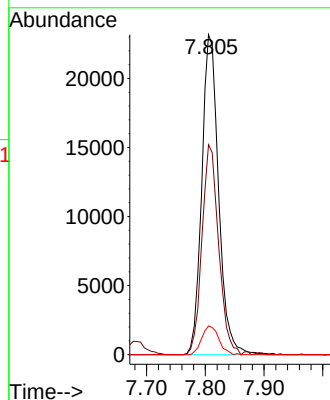
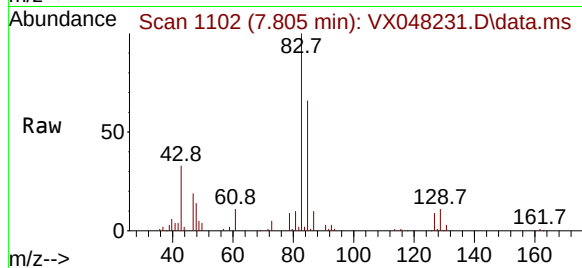
VSTDICC020

Tgt Ion:	83	Resp:	4622
Ion	Ratio	Lower	Upper
83	100		
85	65.6	52.2	78.4
127	9.0	7.3	10.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#48

Methyl methacrylate

Concen: 21.193 ug/l

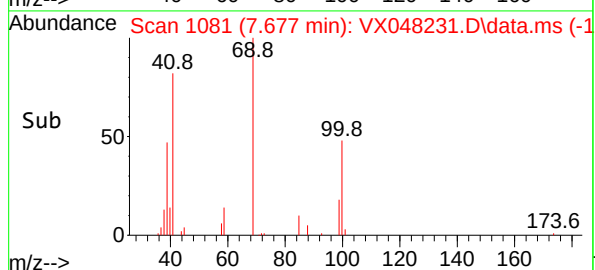
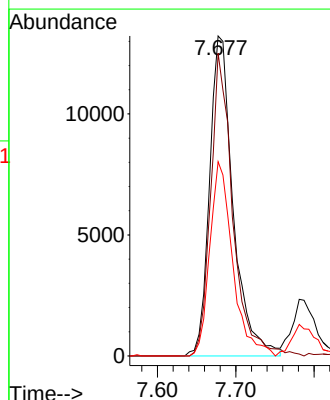
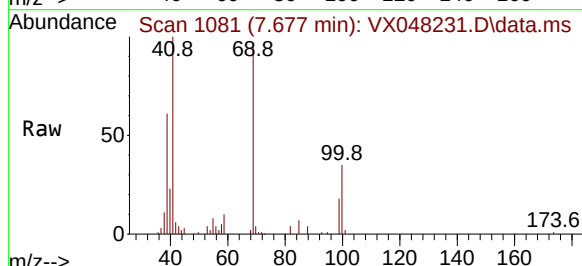
RT: 7.677 min Scan# 1081

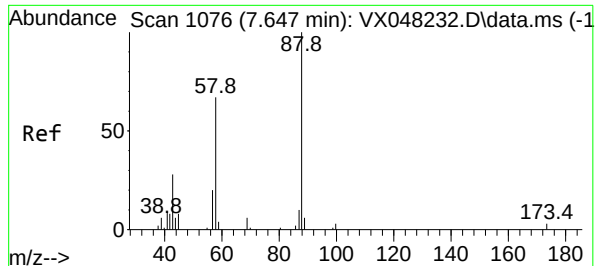
Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Tgt Ion:	41	Resp:	27751
Ion	Ratio	Lower	Upper
41	100		
69	88.6	63.4	95.0
39	58.7	47.1	70.7





#49

1,4-Dioxane

Concen: 646.470 ug/l

RT: 7.647 min Scan# 1076

Delta R.T. 0.006 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

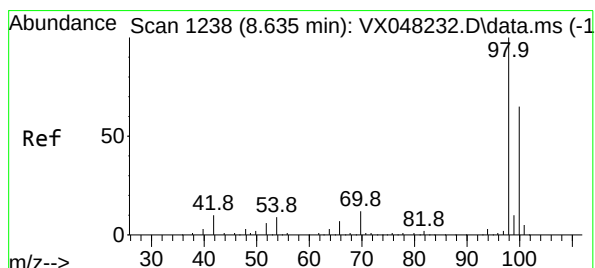
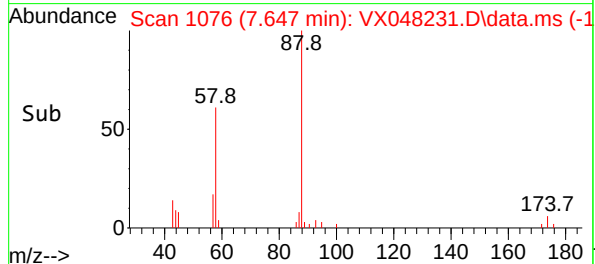
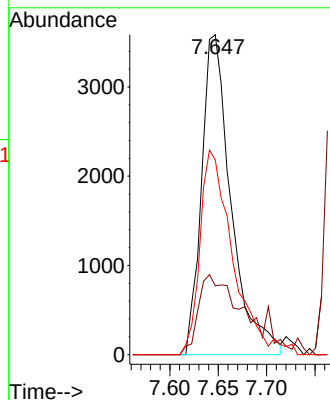
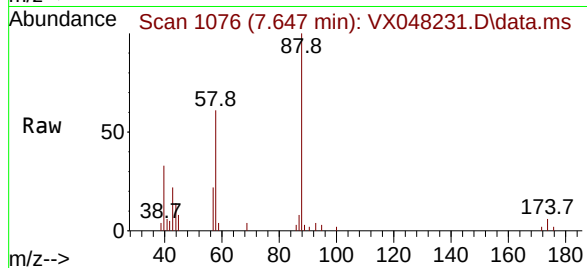
VSTDICC020

Tgt Ion:	88	Resp:	7620
Ion	Ratio	Lower	Upper
88	100		
43	35.0	35.0	52.4
58	71.5	61.9	92.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#50

Toluene-d8

Concen: 18.965 ug/l

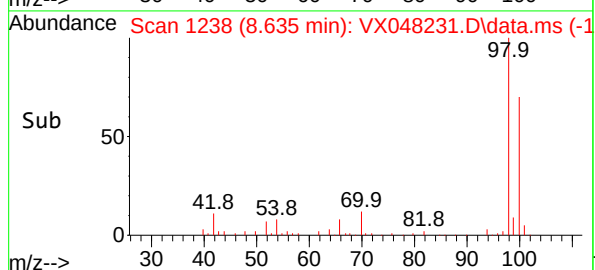
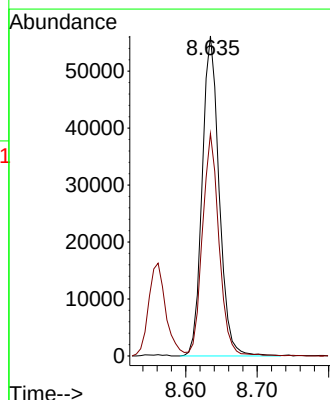
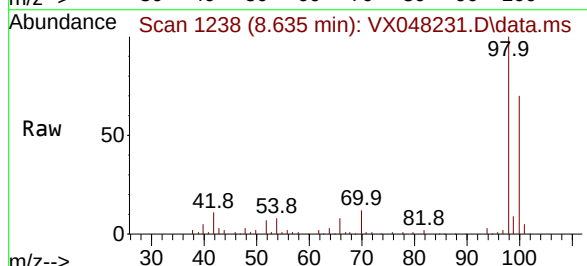
RT: 8.635 min Scan# 1238

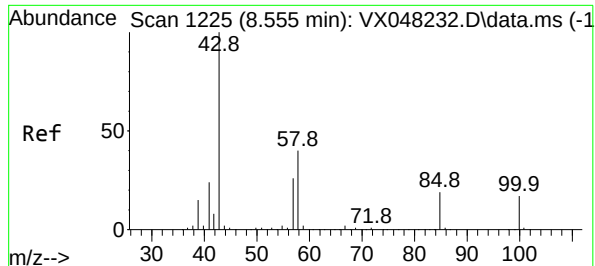
Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Tgt Ion:	98	Resp:	92476
Ion	Ratio	Lower	Upper
98	100		
100	67.8	53.0	79.4





#51

4-Methyl-2-Pentanone

Concen: 115.713 ug/l

RT: 8.555 min Scan# 1225

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 164708

Ion Ratio Lower Upper

43 100

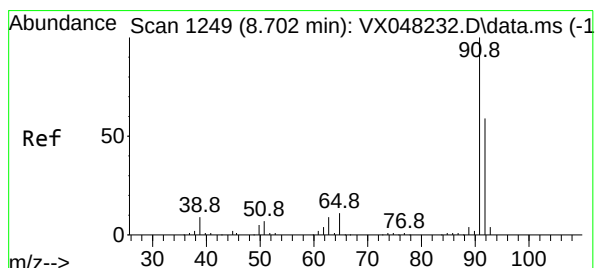
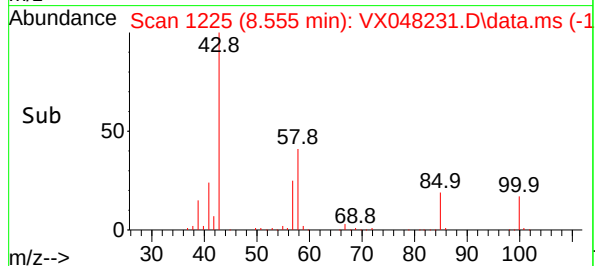
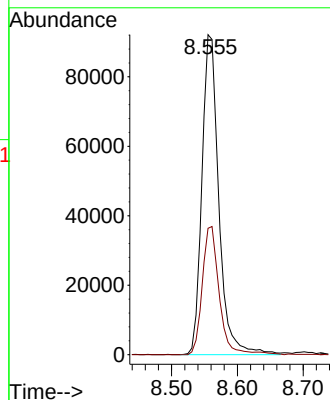
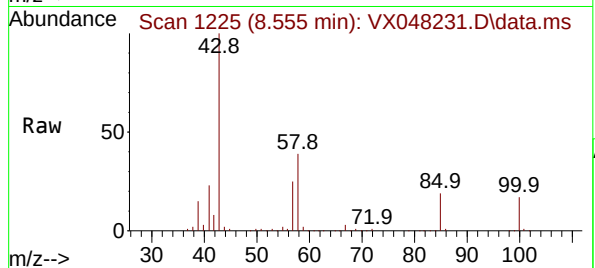
58 40.3 29.5 44.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#52

Toluene

Concen: 21.635 ug/l

RT: 8.702 min Scan# 1249

Delta R.T. -0.000 min

Lab File: VX048231.D

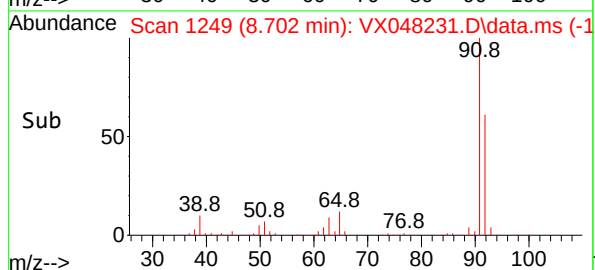
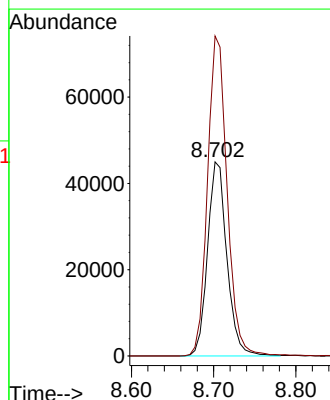
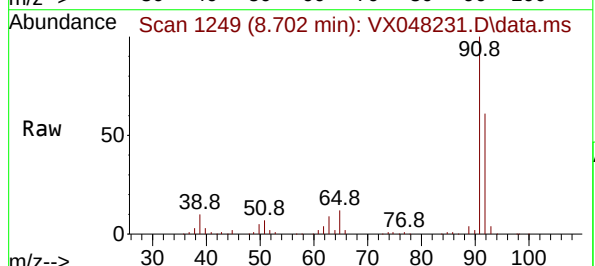
Acq: 20 Oct 2025 11:40

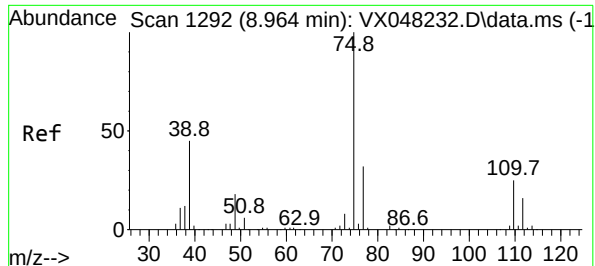
Tgt Ion: 92 Resp: 73623

Ion Ratio Lower Upper

92 100

91 167.2 136.1 204.1





#53

t-1,3-Dichloropropene

Concen: 21.756 ug/l

RT: 8.964 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 75 Resp: 45410

Ion Ratio Lower Upper

75 100

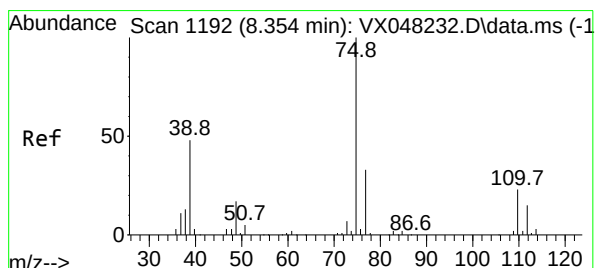
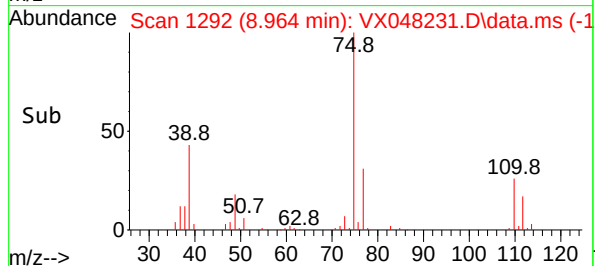
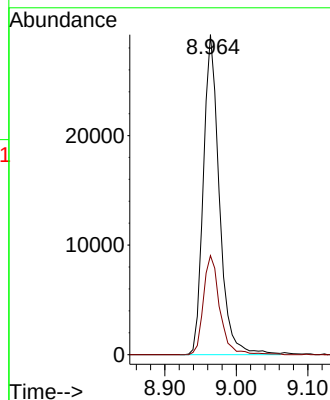
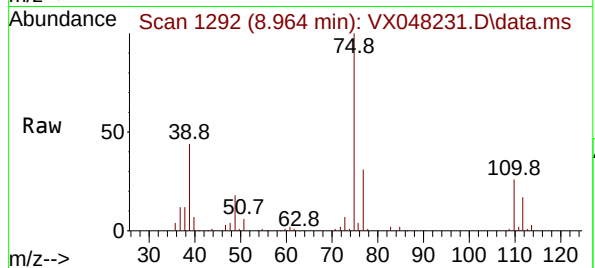
77 31.0 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#54

cis-1,3-Dichloropropene

Concen: 20.713 ug/l

RT: 8.354 min Scan# 1192

Delta R.T. 0.006 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

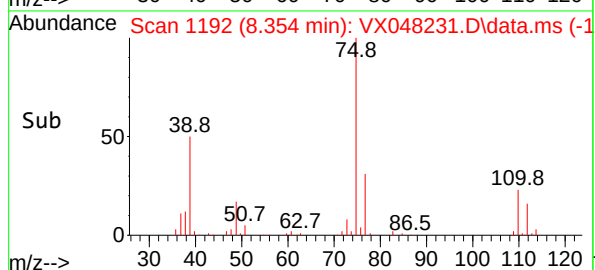
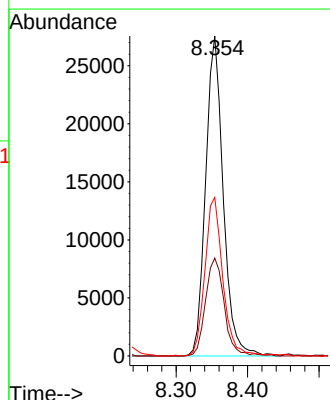
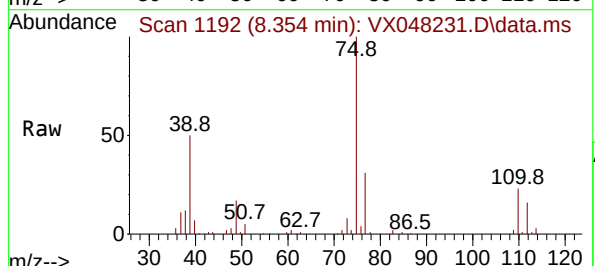
Tgt Ion: 75 Resp: 47130

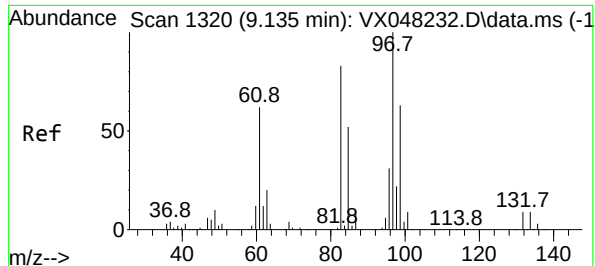
Ion Ratio Lower Upper

75 100

77 30.6 24.9 37.3

39 49.5 42.6 64.0





#55

1,1,2-Trichloroethane

Concen: 21.961 ug/l

RT: 9.134 min Scan# 1320

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 97 Resp: 27884

Ion Ratio Lower Upper

97 100

83 85.6 70.6 105.8

85 54.9 45.0 67.6

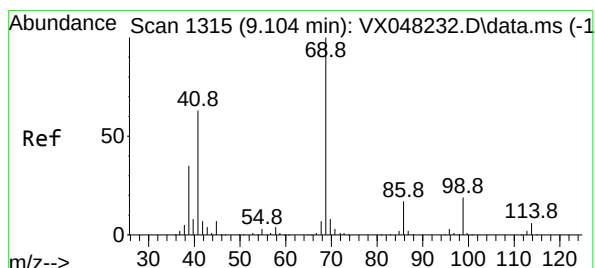
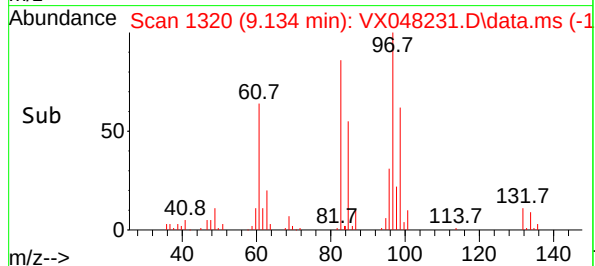
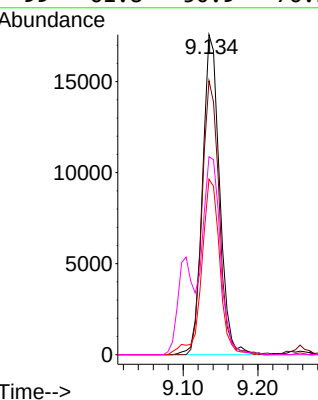
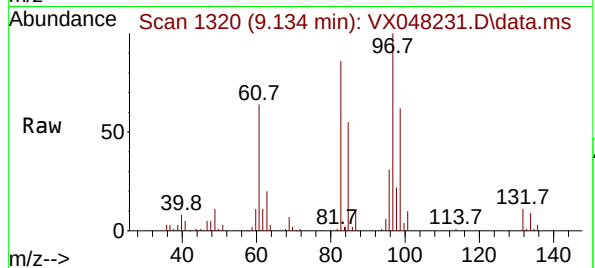
99 61.8 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#56

Ethyl methacrylate

Concen: 24.210 ug/l

RT: 9.104 min Scan# 1315

Delta R.T. 0.006 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

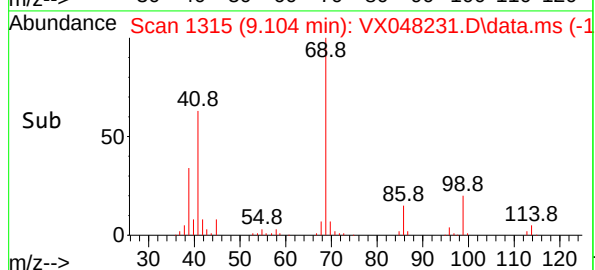
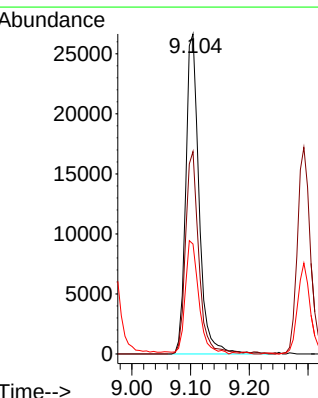
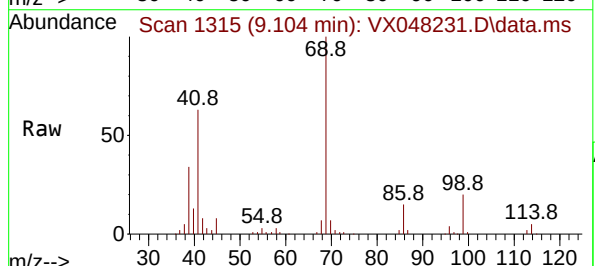
Tgt Ion: 69 Resp: 41809

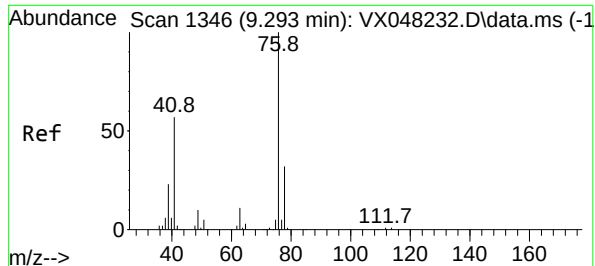
Ion Ratio Lower Upper

69 100

41 63.2 56.0 84.0

39 36.3 31.6 47.4





#57

1,3-Dichloropropane

Concen: 21.591 ug/l

RT: 9.293 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 47890

Ion Ratio Lower Upper

76 100

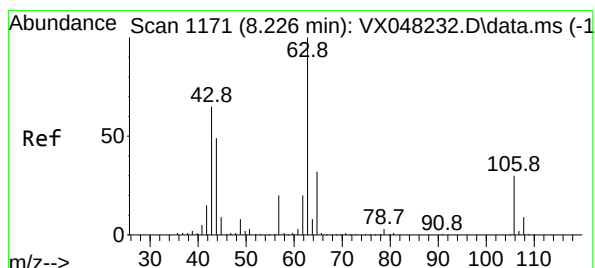
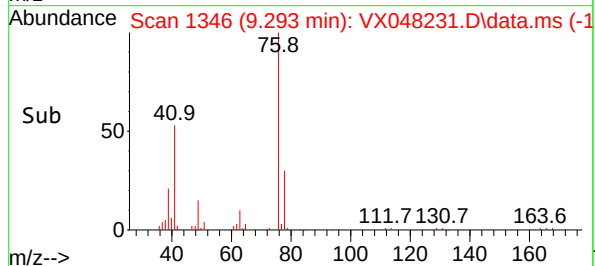
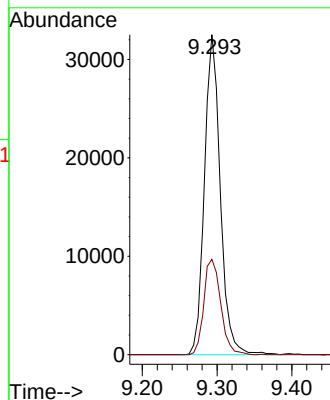
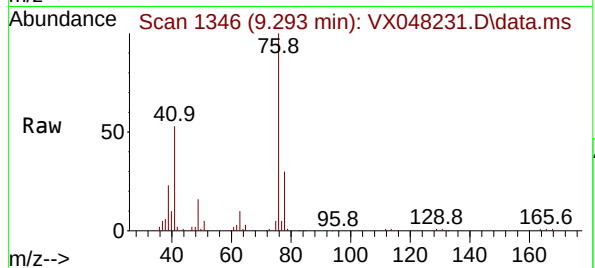
78 31.7 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#58

2-Chloroethyl Vinyl ether

Concen: 118.278 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. -0.000 min

Lab File: VX048231.D

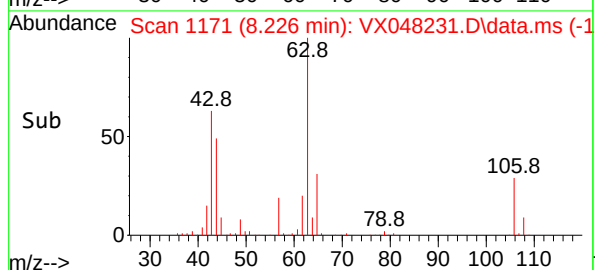
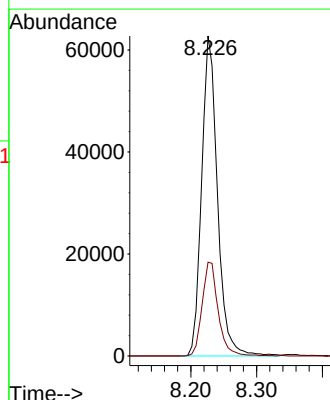
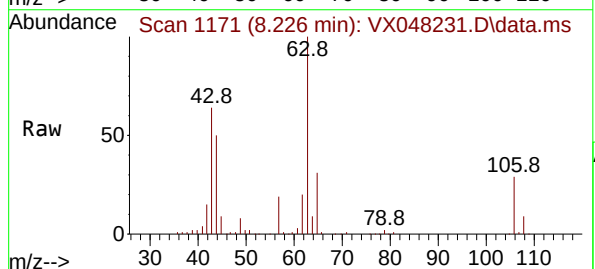
Acq: 20 Oct 2025 11:40

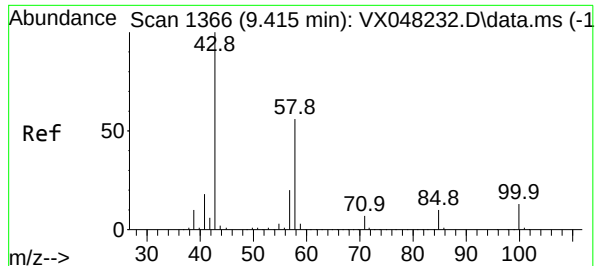
Tgt Ion: 63 Resp: 104883

Ion Ratio Lower Upper

63 100

106 29.7 22.2 33.2





#59

2-Hexanone

Concen: 116.777 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 116268

Ion Ratio Lower Upper

43 100

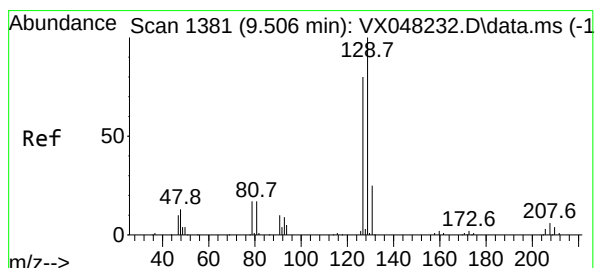
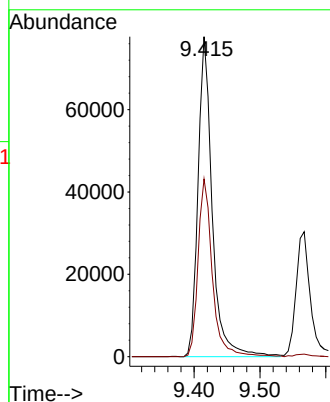
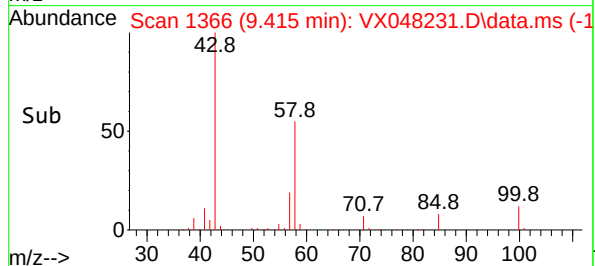
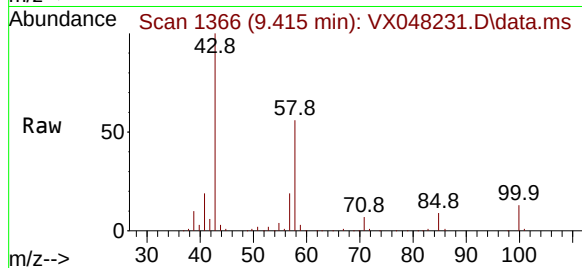
58 56.1 26.3 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#60

Dibromochloromethane

Concen: 23.361 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VX048231.D

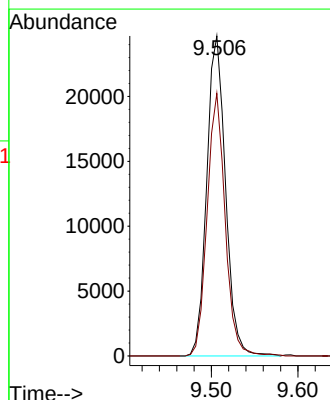
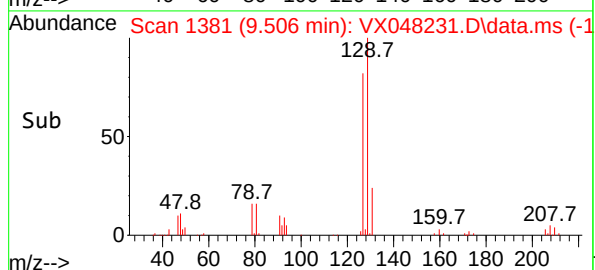
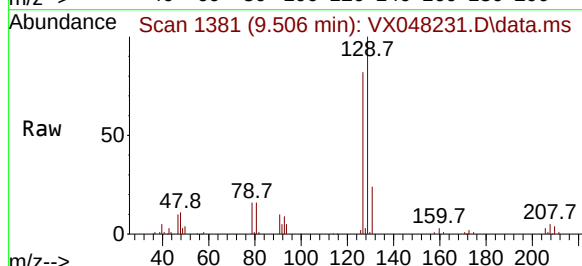
Acq: 20 Oct 2025 11:40

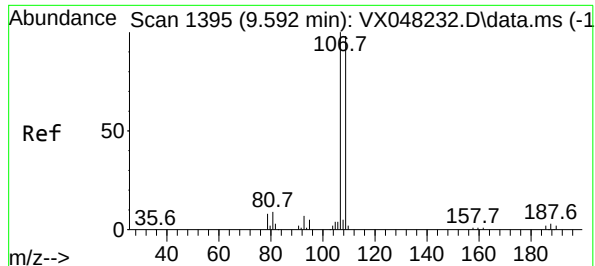
Tgt Ion:129 Resp: 37127

Ion Ratio Lower Upper

129 100

127 78.9 38.6 115.7





#61

1,2-Dibromoethane

Concen: 23.533 ug/l

RT: 9.598 min Scan# 1395

Delta R.T. 0.006 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:107 Resp: 30639

Ion Ratio Lower Upper

107 100

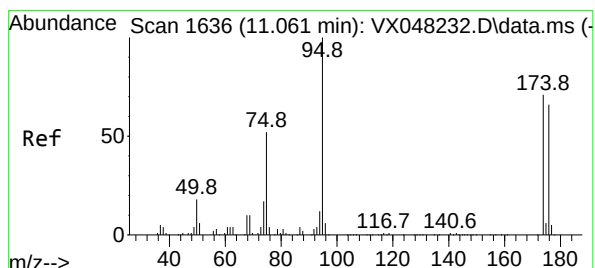
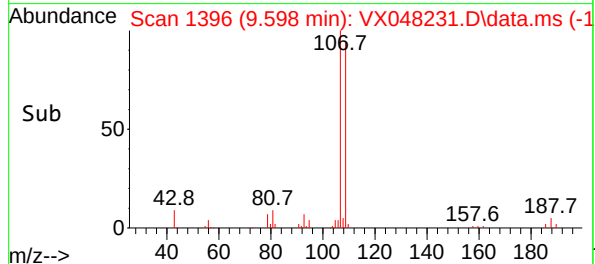
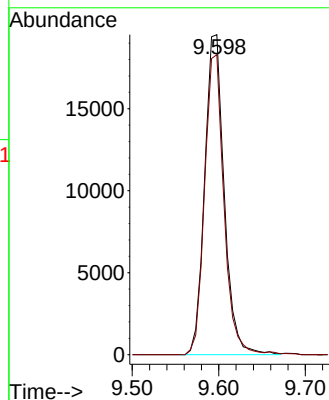
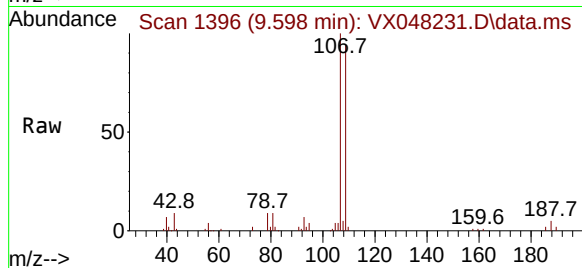
109 92.2 77.0 115.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#62

4-Bromofluorobenzene

Concen: 19.551 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

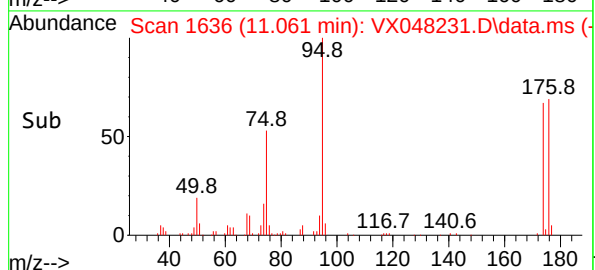
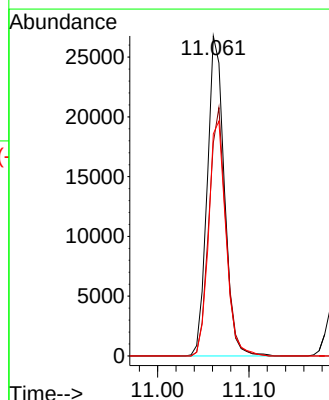
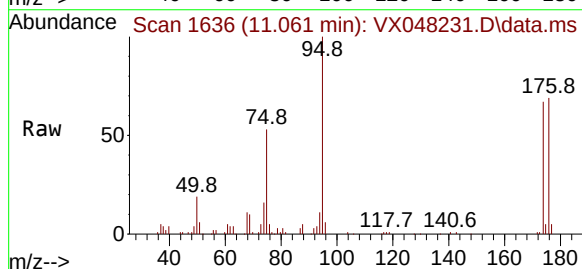
Tgt Ion: 95 Resp: 34724

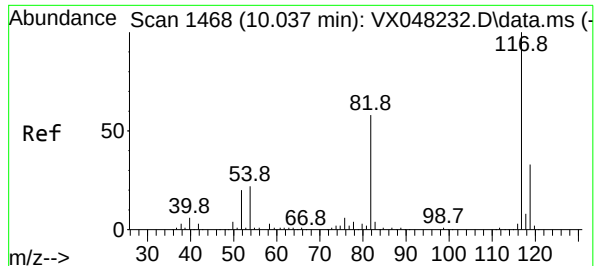
Ion Ratio Lower Upper

95 100

174 76.8 0.0 147.8

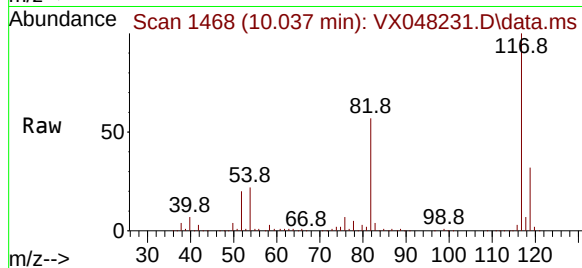
176 74.3 0.0 142.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

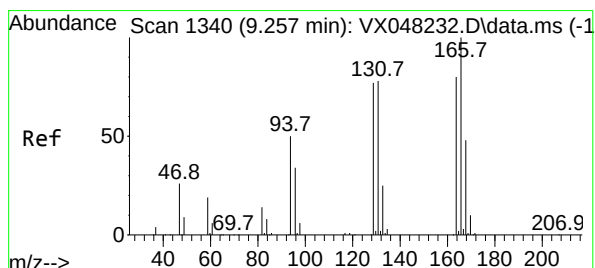
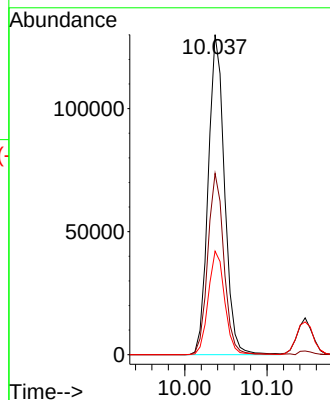
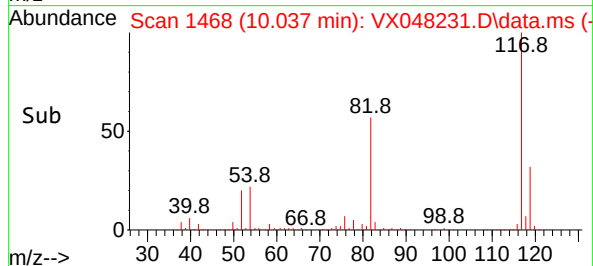
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:117 Resp: 178975
Ion Ratio Lower Upper
117 100
82 56.6 46.5 69.7
119 32.4 25.9 38.9

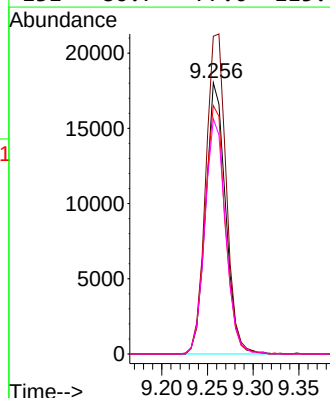
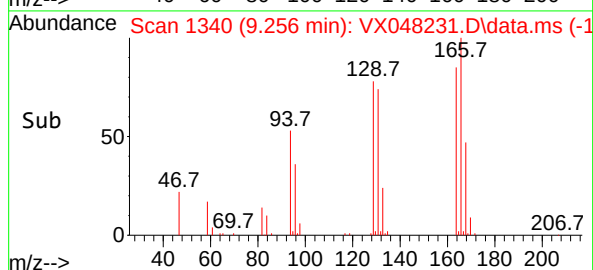
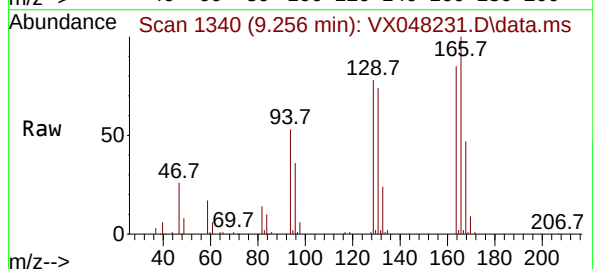
Manual Integrations
APPROVED

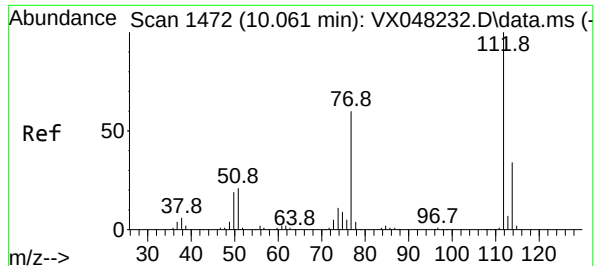
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#64
Tetrachloroethene
Concen: 21.550 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:164 Resp: 27043
Ion Ratio Lower Upper
164 100
166 117.2 104.5 156.7
129 91.6 81.8 122.6
131 86.7 77.0 115.6





#65

Chlorobenzene

Concen: 21.211 ug/l

RT: 10.061 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion:112 Resp: 83004

Ion Ratio Lower Upper

112 100

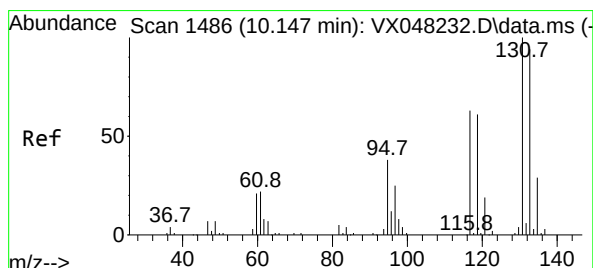
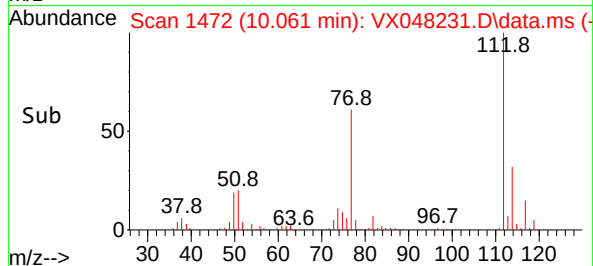
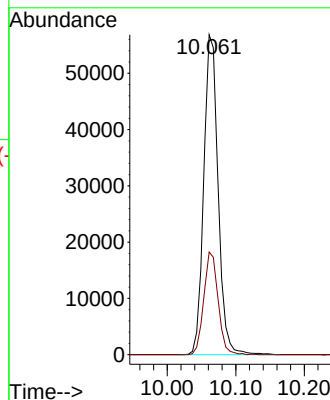
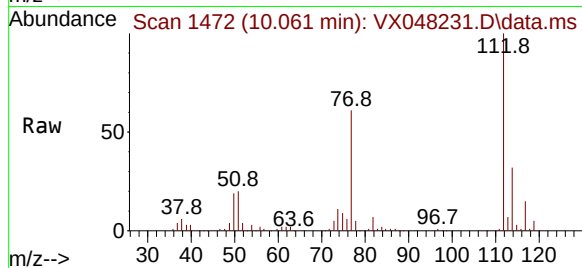
114 32.1 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 21.471 ug/l

RT: 10.146 min Scan# 1486

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

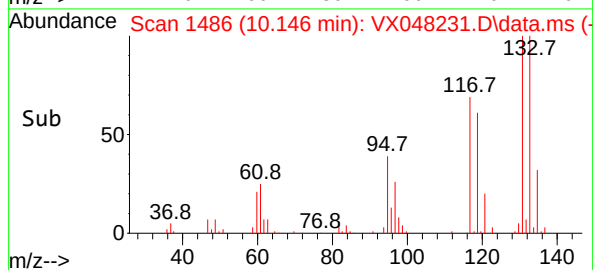
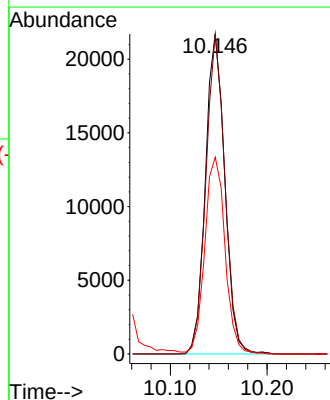
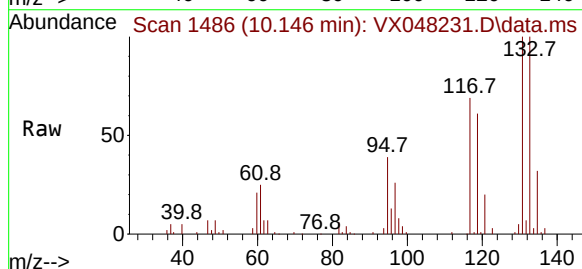
Tgt Ion:131 Resp: 30278

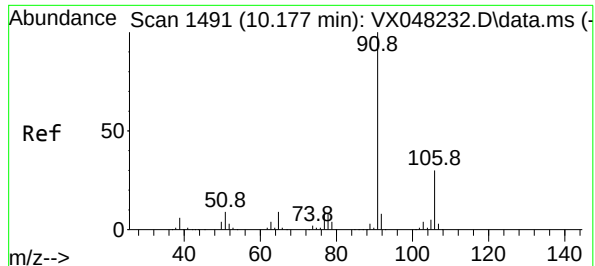
Ion Ratio Lower Upper

131 100

133 98.2 47.6 142.8

119 64.5 32.5 97.5





#67

Ethyl Benzene

Concen: 20.852 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 13989

Ion Ratio Lower Upper

91 100

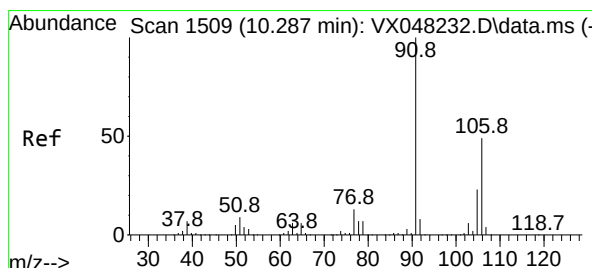
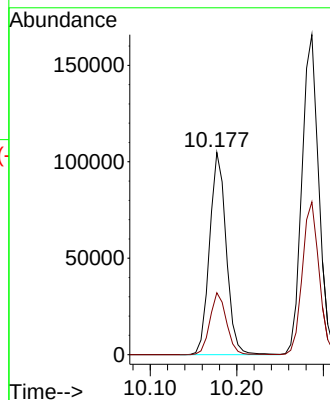
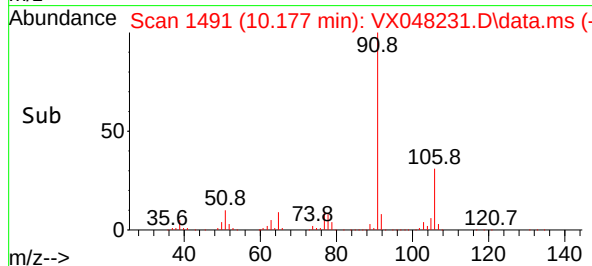
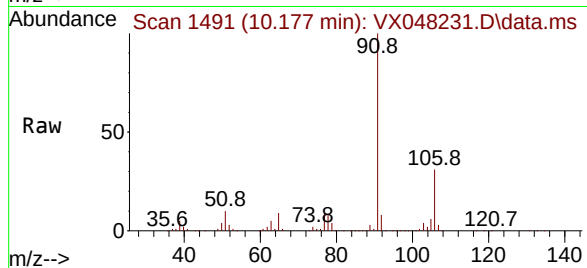
106 30.6 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#68

m/p-Xylenes

Concen: 42.962 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX048231.D

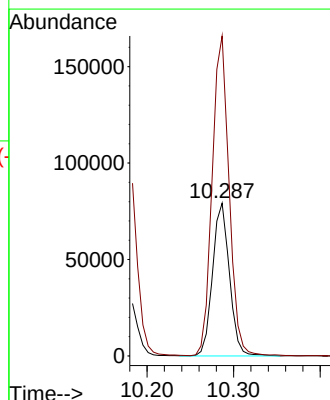
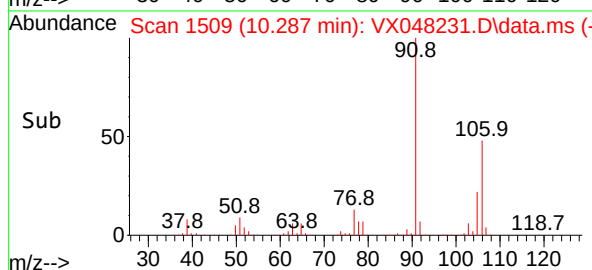
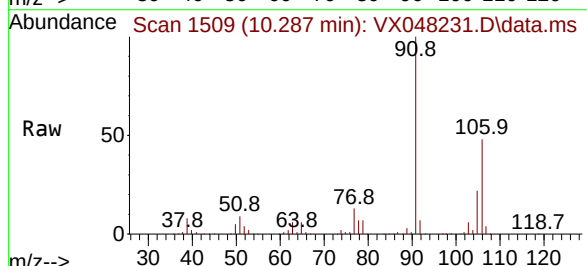
Acq: 20 Oct 2025 11:40

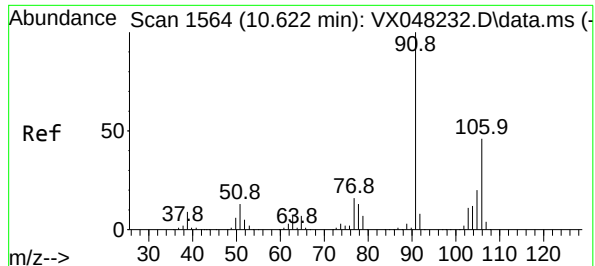
Tgt Ion:106 Resp: 107377

Ion Ratio Lower Upper

106 100

91 209.9 167.9 251.9





#69

o-Xylene

Concen: 21.655 ug/l

RT: 10.622 min Scan# 1564

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:106 Resp: 50950

Ion Ratio Lower Upper

106 100

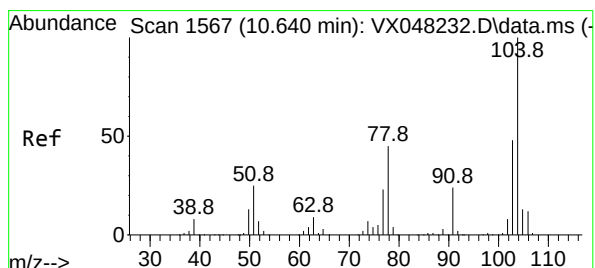
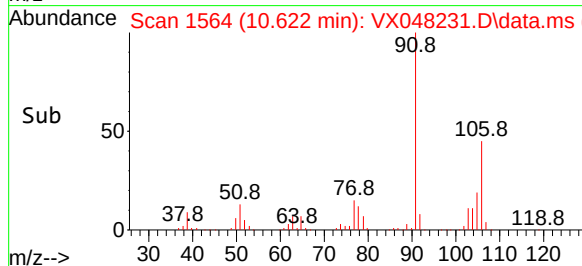
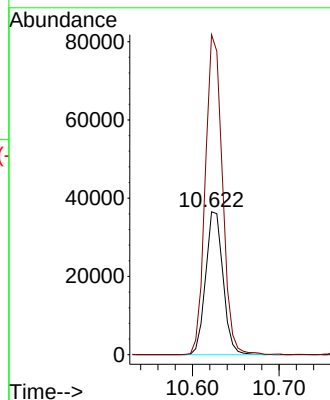
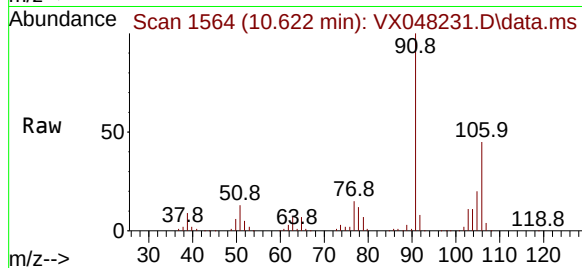
91 220.1 111.3 333.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#70

Styrene

Concen: 21.848 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

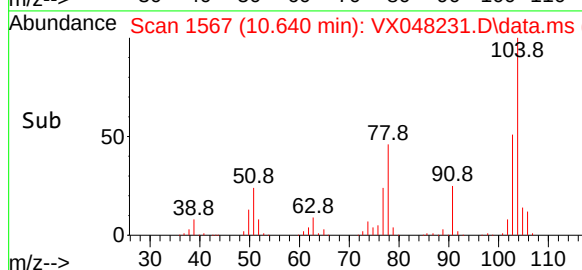
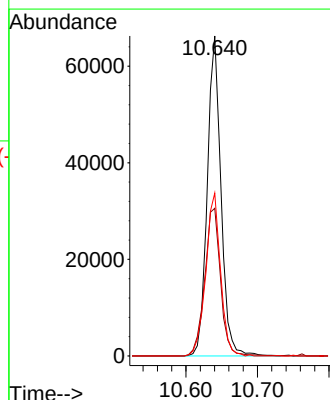
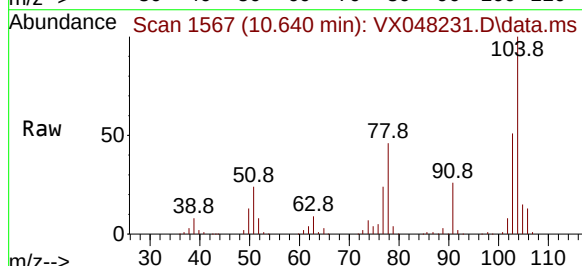
Tgt Ion:104 Resp: 88481

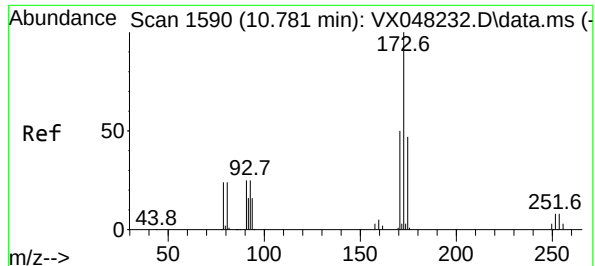
Ion Ratio Lower Upper

104 100

78 53.5 42.2 63.4

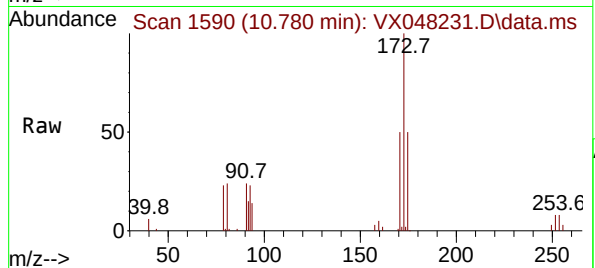
103 54.7 43.0 64.4





#71
Bromoform
Concen: 24.168 ug/l
RT: 10.780 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

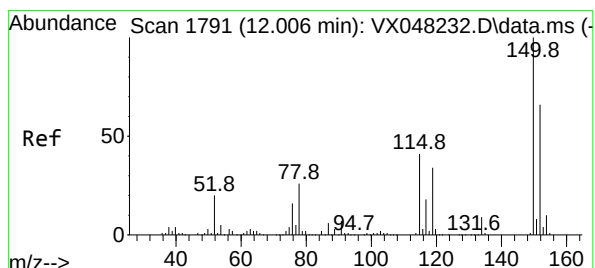
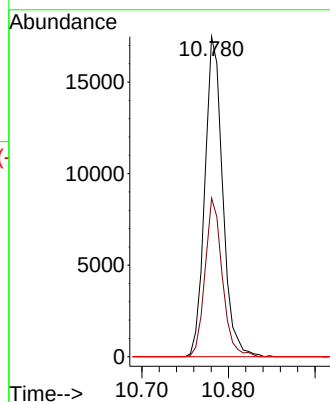
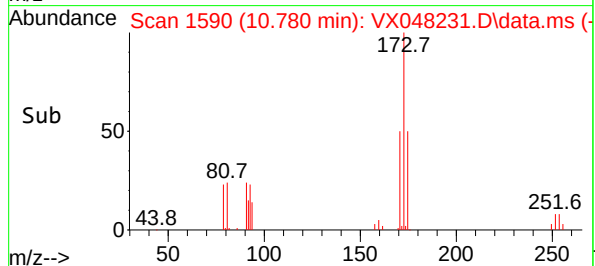
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



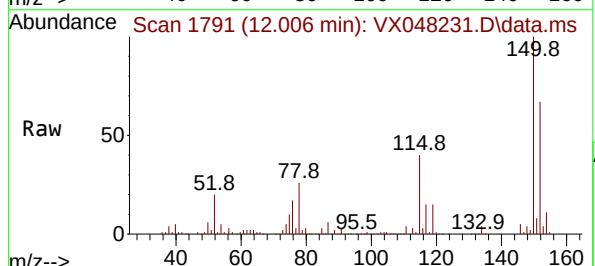
Tgt Ion:173 Resp: 2502
Ion Ratio Lower Upper
173 100
175 47.8 24.0 72.0
254 0.0 0.0 0.0

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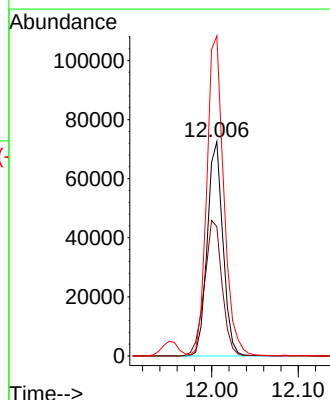
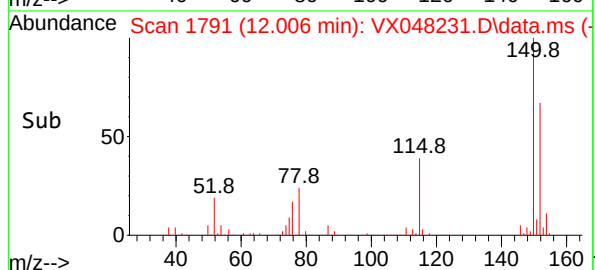
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

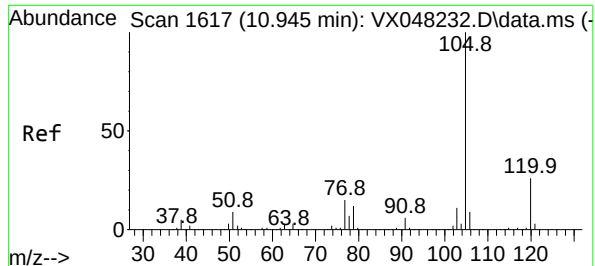


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40



Tgt Ion:152 Resp: 90972
Ion Ratio Lower Upper
152 100
115 71.1 43.1 129.4
150 161.6 0.0 353.0





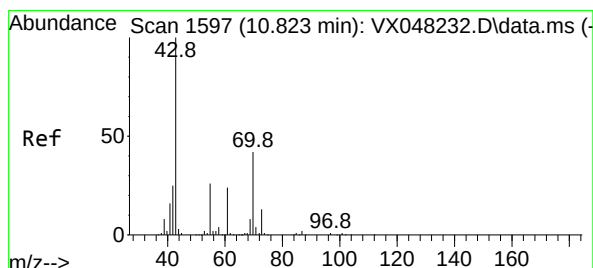
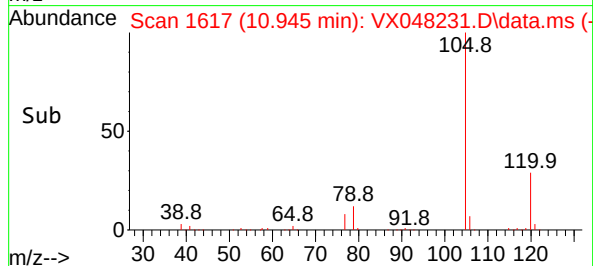
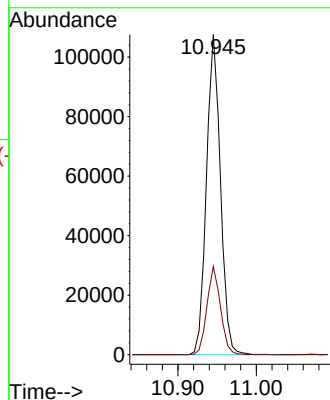
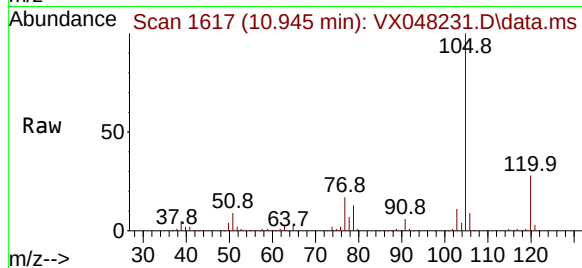
#73
Isopropylbenzene
Concen: 21.025 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tgt Ion:105 Resp: 133034
Ion Ratio Lower Upper
105 100
120 26.6 13.0 38.9

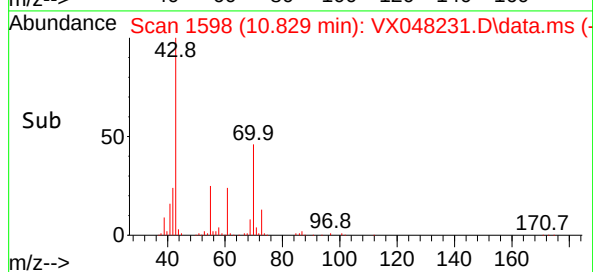
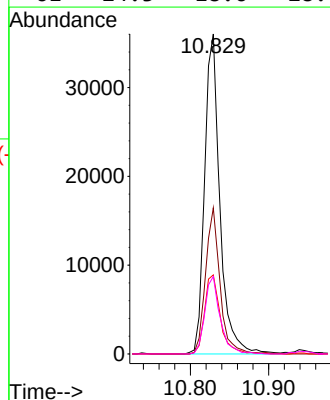
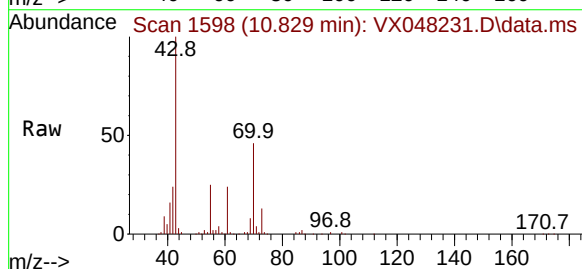
Manual Integrations
APPROVED

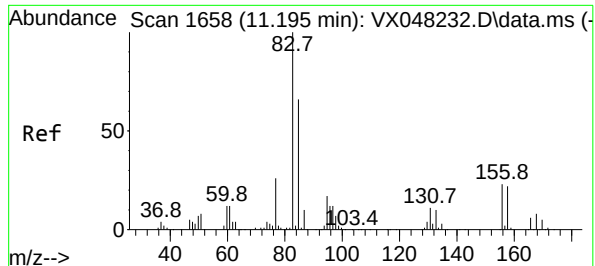
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#74
N-ethyl acetate
Concen: 20.642 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 43 Resp: 48726
Ion Ratio Lower Upper
43 100
70 43.4 32.2 48.2
55 25.5 19.1 28.7
61 24.3 18.6 28.0





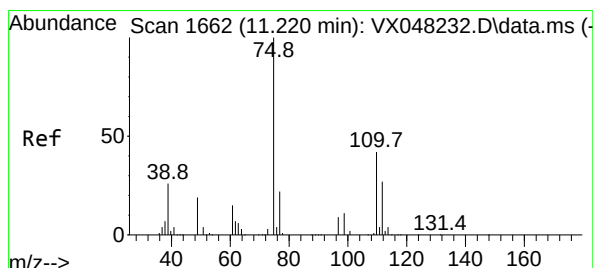
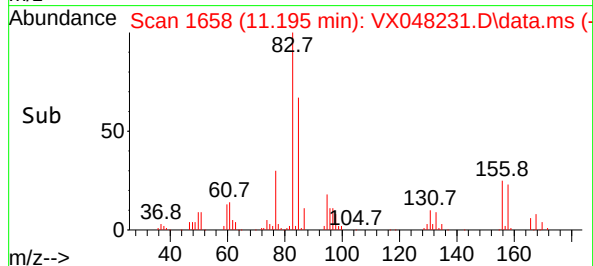
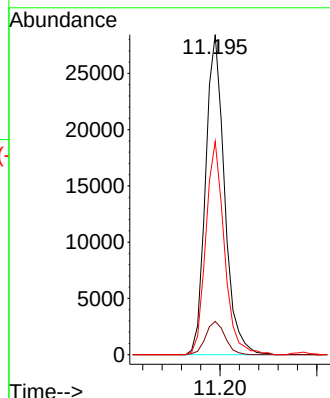
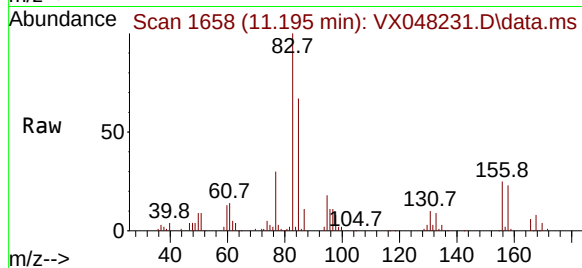
#75
1,1,2,2-Tetrachloroethane
Concen: 21.616 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 38748
Ion Ratio Lower Upper
83 100
131 10.6 4.8 14.4
85 65.2 31.9 95.7

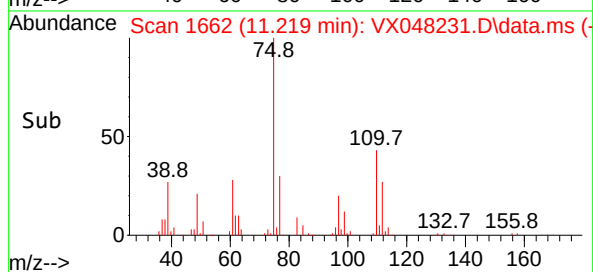
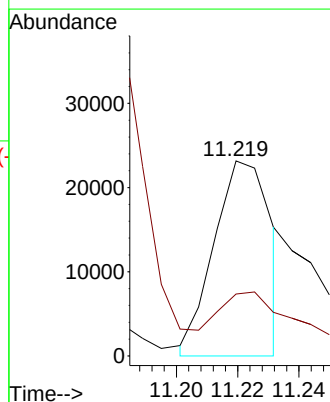
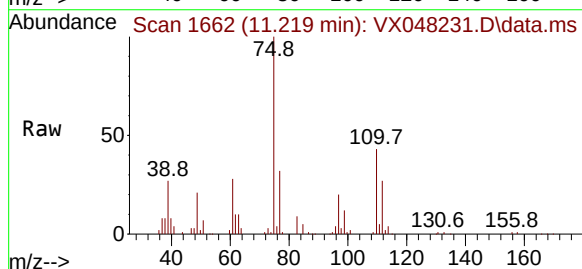
Manual Integrations
APPROVED

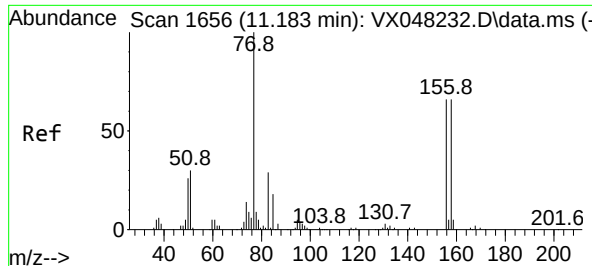
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#76
1,2,3-Trichloropropane
Concen: 21.533 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 75 Resp: 29913
Ion Ratio Lower Upper
75 100
77 46.2 22.4 67.2





#77

Bromobenzene

Concen: 21.374 ug/l

RT: 11.183 min Scan# 1656

Delta R.T. 0.006 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

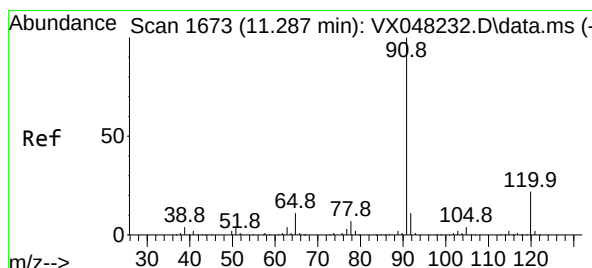
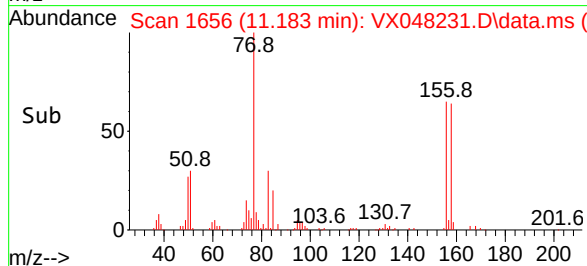
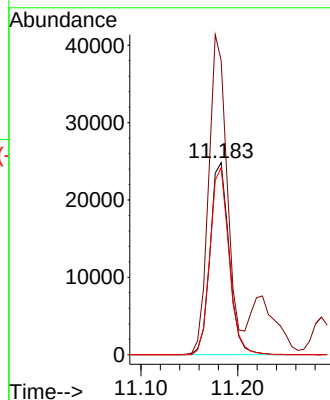
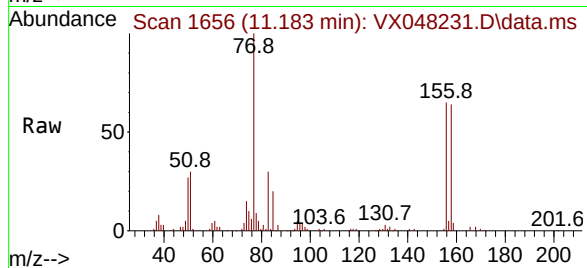
VSTDIC020

Tgt Ion:	156	Resp:	3384
Ion Ratio	Lower	Upper	
156	100		
77	164.0	87.0	261.0
158	97.7	47.8	143.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#78

n-propylbenzene

Concen: 20.180 ug/l

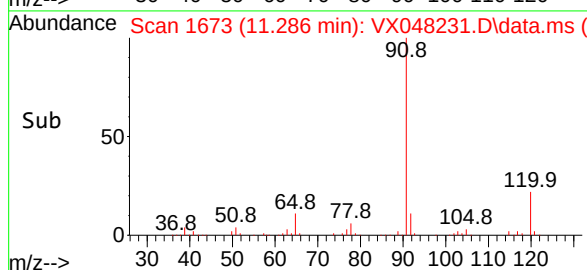
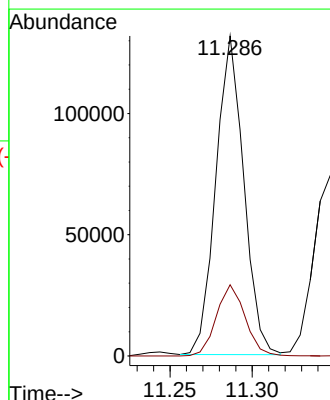
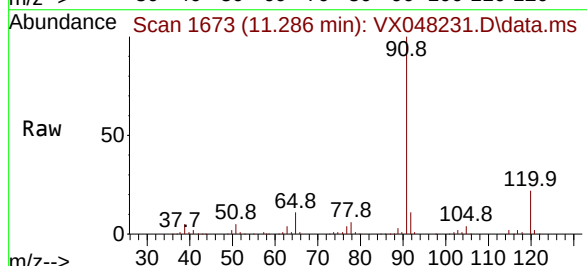
RT: 11.286 min Scan# 1673

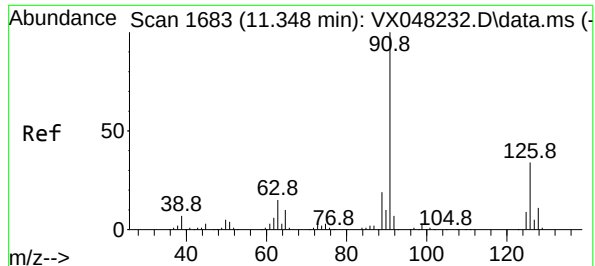
Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Tgt Ion:	91	Resp:	154839
Ion Ratio	Lower	Upper	
91	100		
120	23.1	11.1	33.1





#79

2-Chlorotoluene

Concen: 20.526 ug/l

RT: 11.347 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 95150

Ion Ratio Lower Upper

91 100

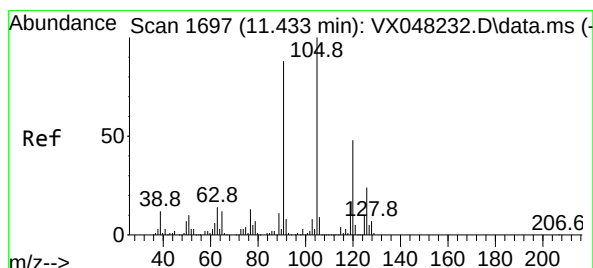
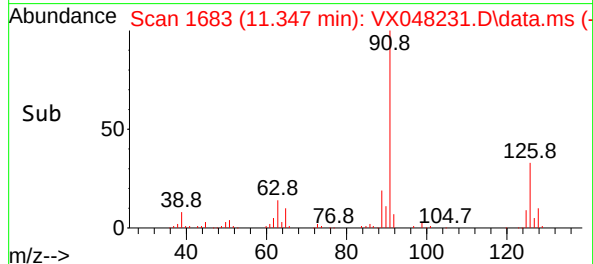
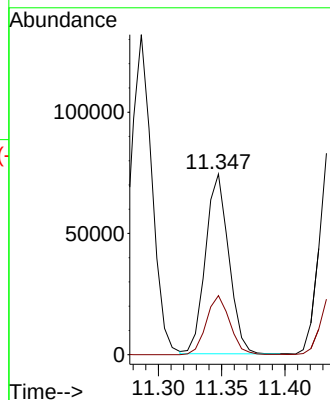
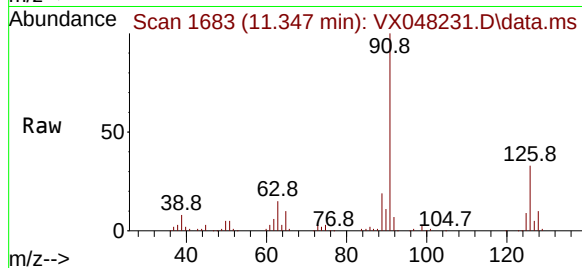
126 33.3 16.4 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#80

1,3,5-Trimethylbenzene

Concen: 21.575 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX048231.D

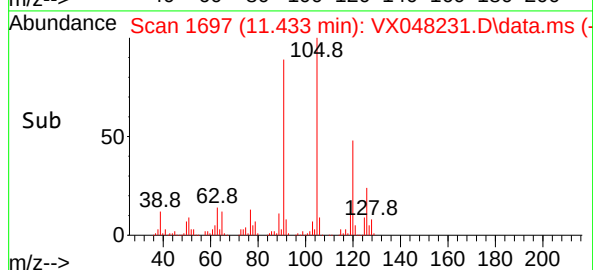
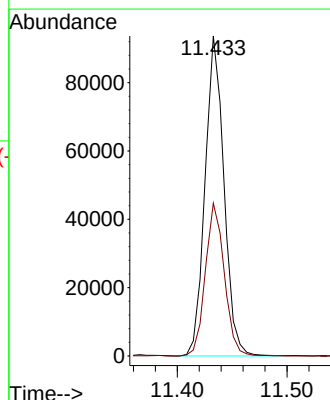
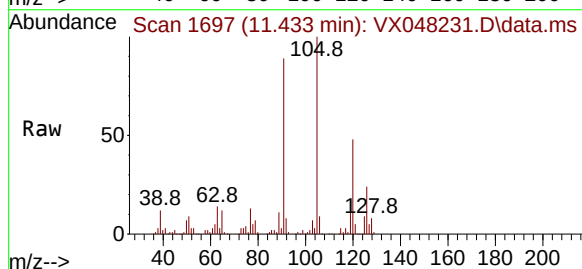
Acq: 20 Oct 2025 11:40

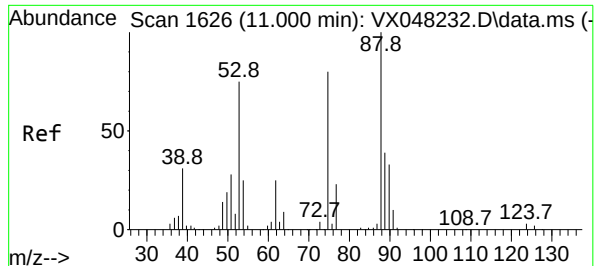
Tgt Ion:105 Resp: 112057

Ion Ratio Lower Upper

105 100

120 47.9 24.0 72.0





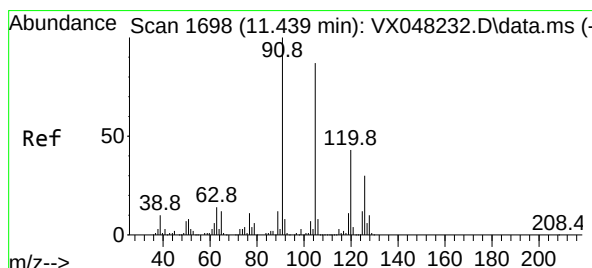
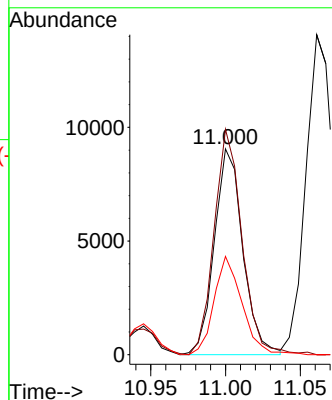
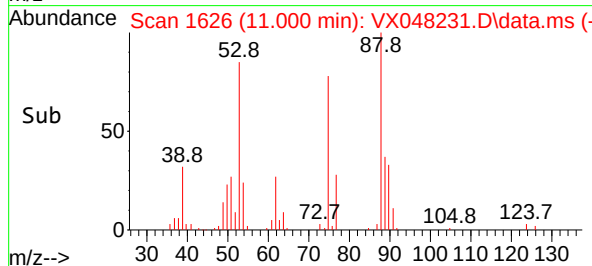
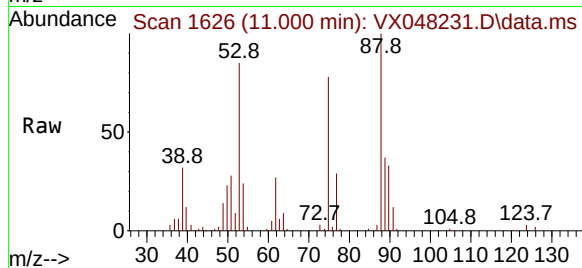
#81
trans-1,4-Dichloro-2-butene
Concen: 21.154 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 1200
Ion Ratio Lower Upper
75 100
53 107.3 79.5 119.3
89 46.9 36.8 55.2

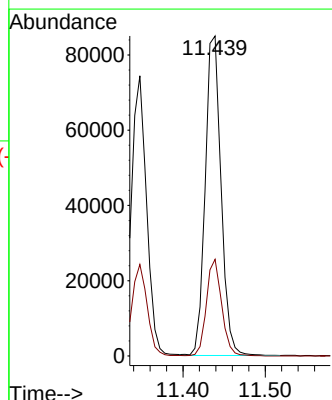
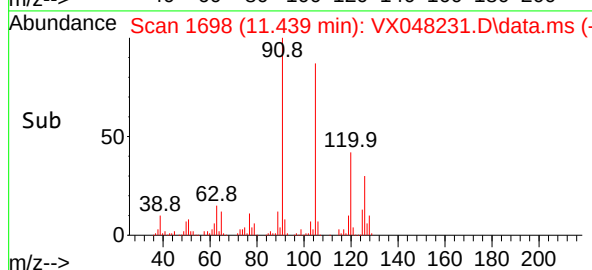
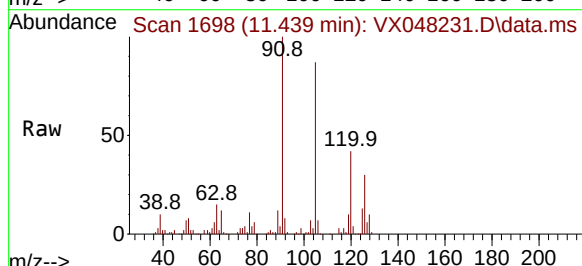
Manual Integrations
APPROVED

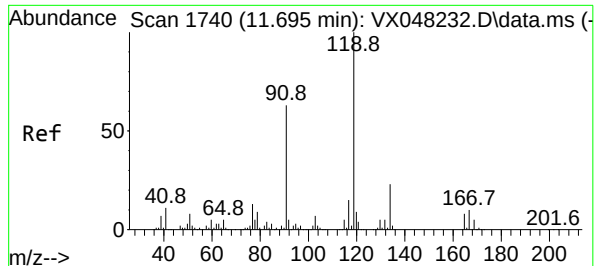
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#82
4-Chlorotoluene
Concen: 20.833 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 91 Resp: 113495
Ion Ratio Lower Upper
91 100
126 29.3 14.1 42.4





#83

tert-Butylbenzene

Concen: 21.403 ug/l

RT: 11.695 min Scan# 1119

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:119 Resp: 112305

Ion Ratio Lower Upper

119 100

91 57.4 30.3 91.0

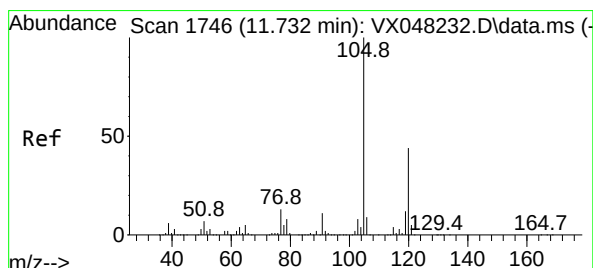
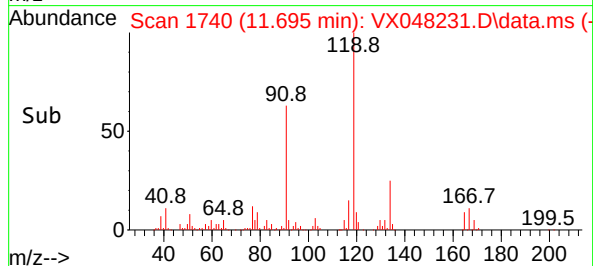
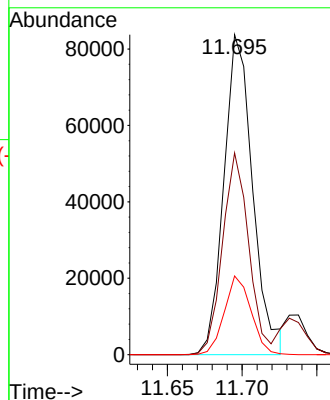
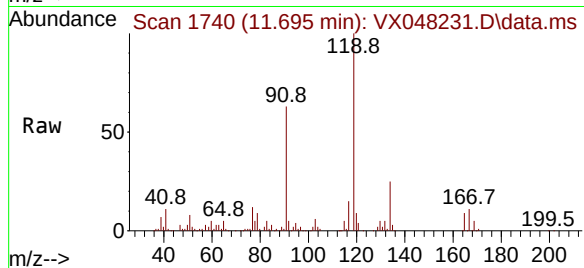
134 22.8 11.4 34.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#84

1,2,4-Trimethylbenzene

Concen: 21.652 ug/l

RT: 11.732 min Scan# 1746

Delta R.T. -0.000 min

Lab File: VX048231.D

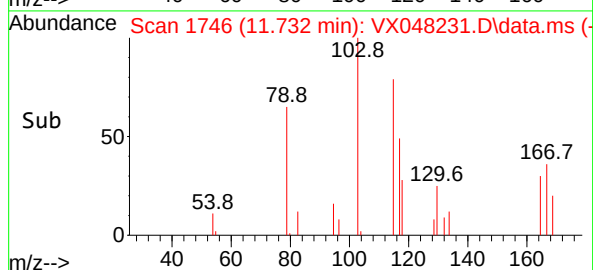
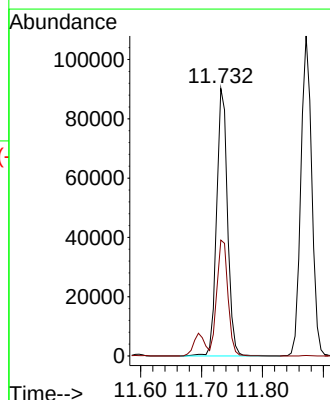
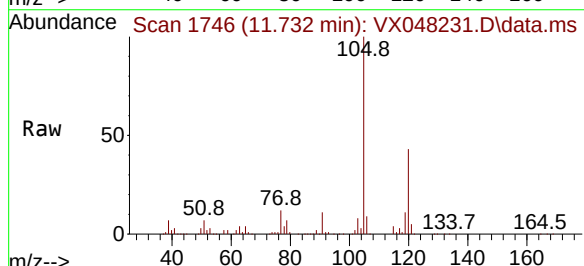
Acq: 20 Oct 2025 11:40

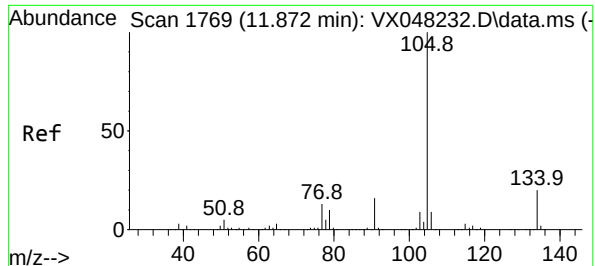
Tgt Ion:105 Resp: 111976

Ion Ratio Lower Upper

105 100

120 44.2 22.1 66.5





#85

sec-Butylbenzene

Concen: 20.891 ug/l

RT: 11.872 min Scan# 1769

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:105 Resp: 134014

Ion Ratio Lower Upper

105 100

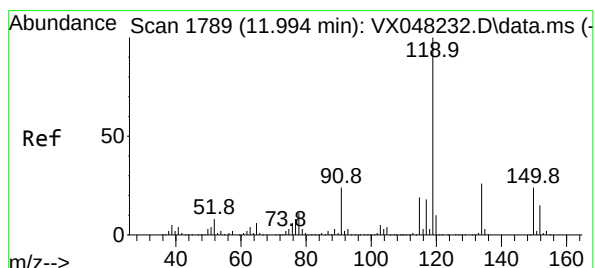
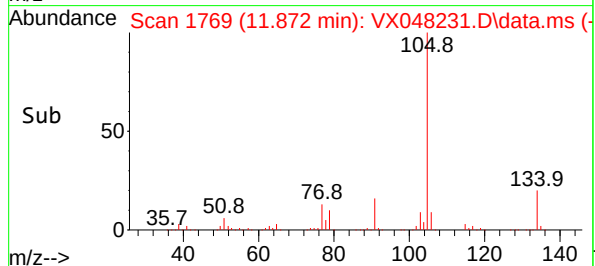
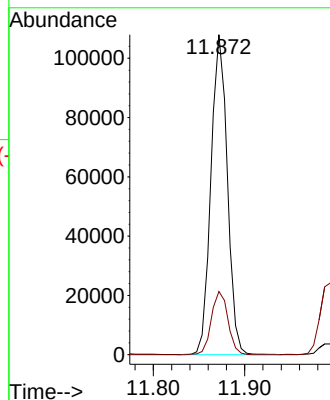
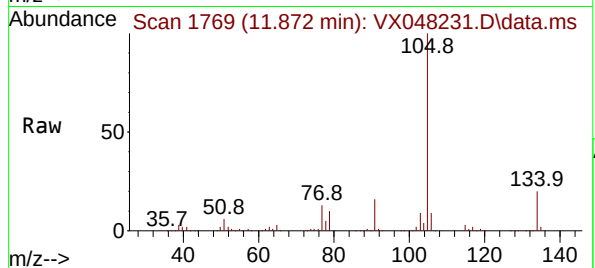
134 20.0 10.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#86

p-Isopropyltoluene

Concen: 21.263 ug/l

RT: 11.994 min Scan# 1789

Delta R.T. 0.006 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

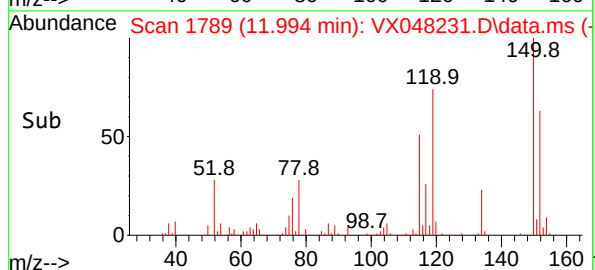
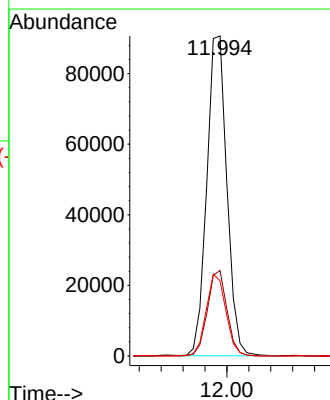
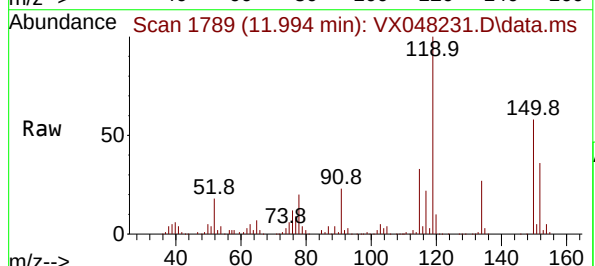
Tgt Ion:119 Resp: 114969

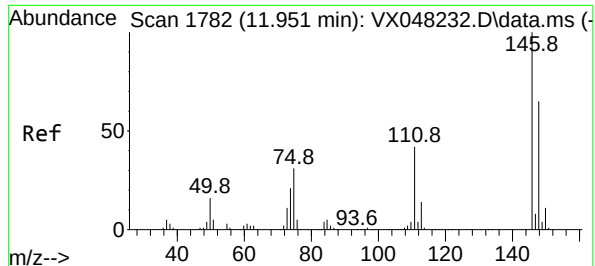
Ion Ratio Lower Upper

119 100

134 26.0 13.0 39.0

91 25.1 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 21.403 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:146 Resp: 6337

Ion Ratio Lower Upper

146 100

111 41.8 20.4 61.2

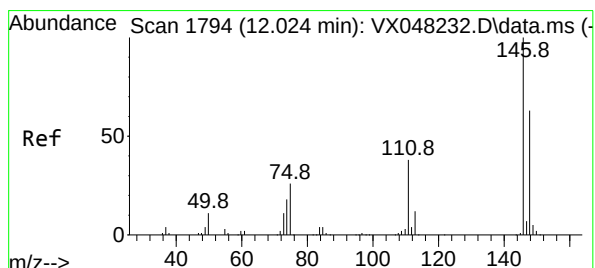
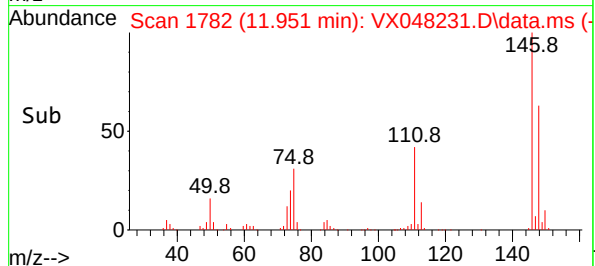
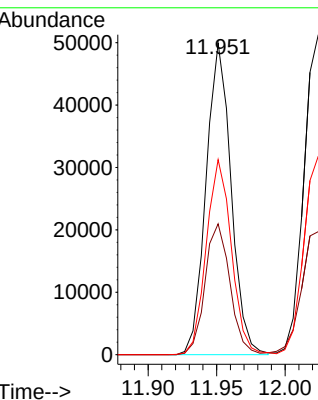
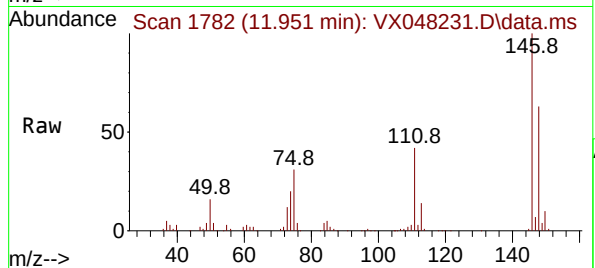
148 63.1 31.9 95.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#88

1,4-Dichlorobenzene

Concen: 21.375 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

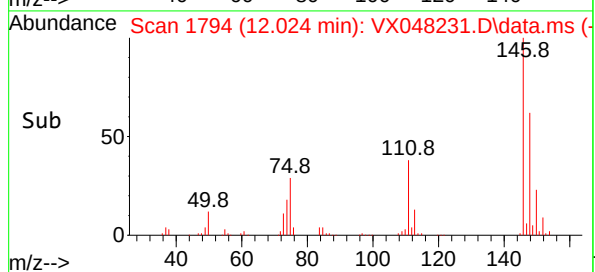
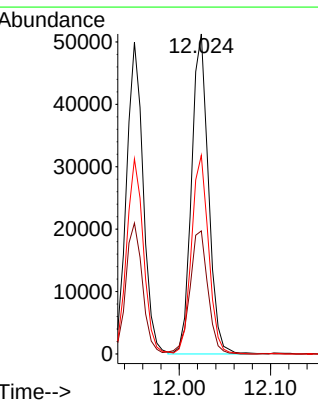
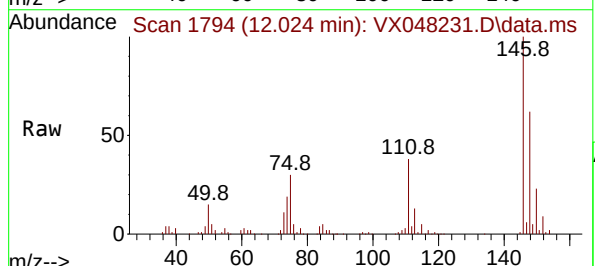
Tgt Ion:146 Resp: 65612

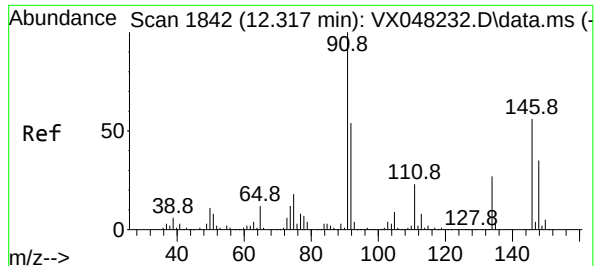
Ion Ratio Lower Upper

146 100

111 41.3 20.1 60.2

148 62.6 31.8 95.3





#89

n-Butylbenzene

Concen: 20.281 ug/l

RT: 12.317 min Scan# 1842

Delta R.T. 0.006 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 102140

Ion Ratio Lower Upper

91 100

92 52.3 26.9 80.6

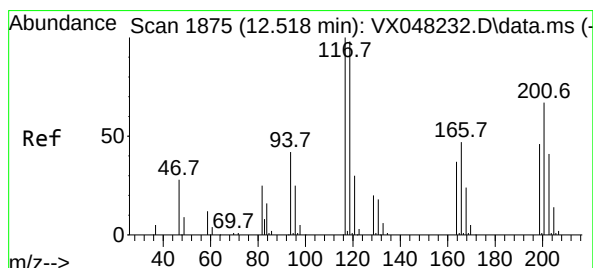
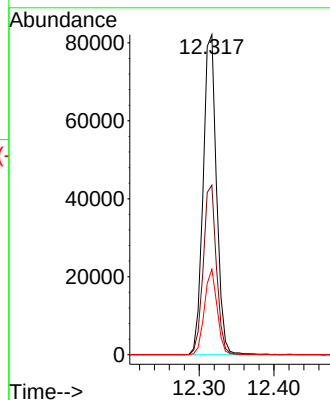
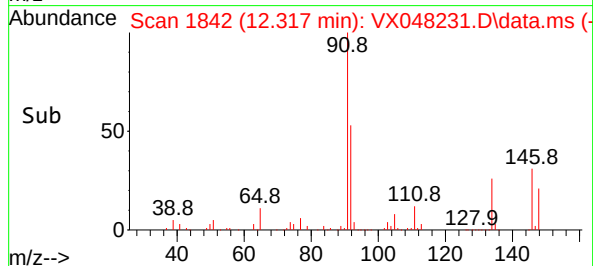
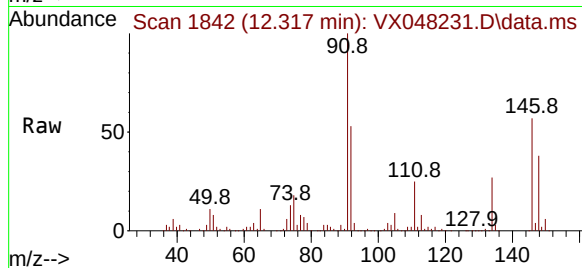
134 25.2 12.7 38.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#90

Hexachloroethane

Concen: 19.811 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX048231.D

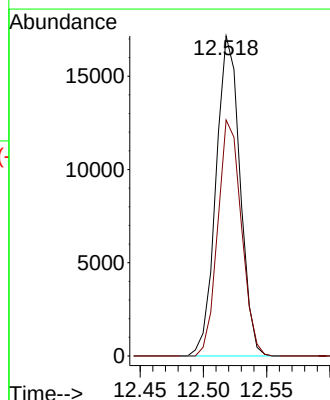
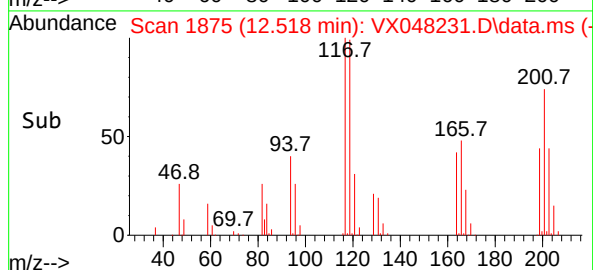
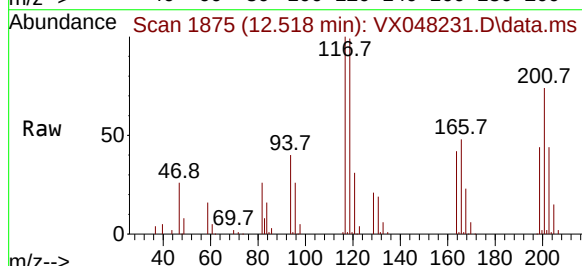
Acq: 20 Oct 2025 11:40

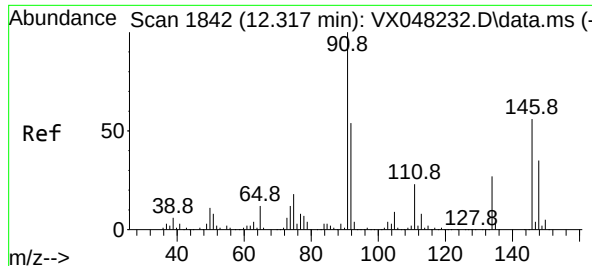
Tgt Ion:117 Resp: 22609

Ion Ratio Lower Upper

117 100

201 72.6 34.1 102.2





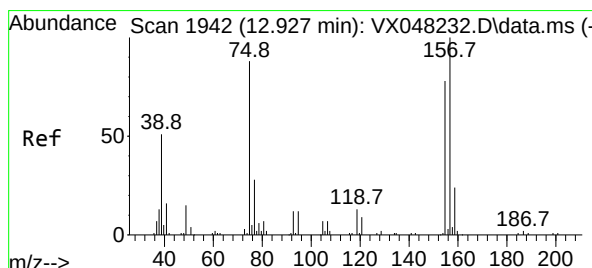
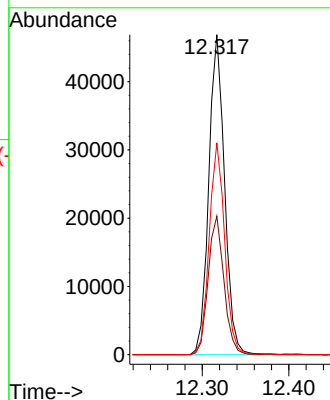
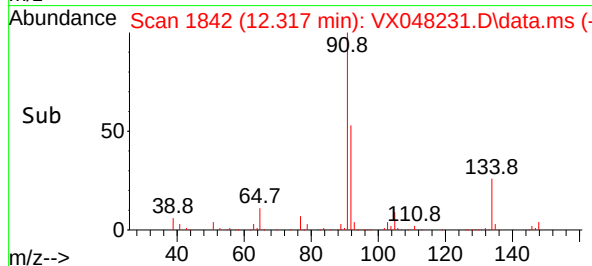
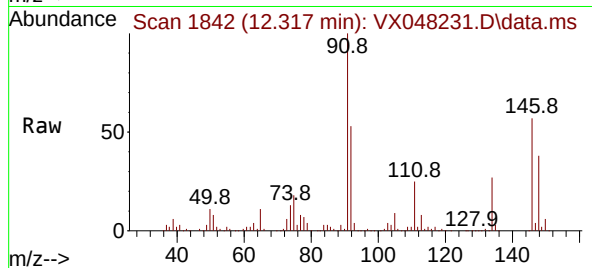
#91
1,2-Dichlorobenzene
Concen: 21.212 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 5934
Ion Ratio Lower Upper
146 100
111 43.2 21.9 65.5
148 64.9 31.9 95.5

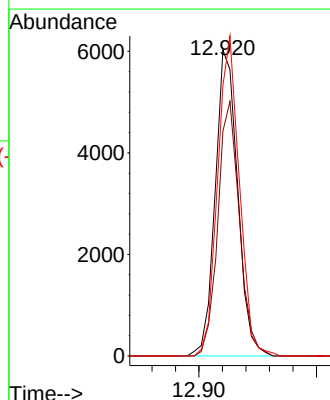
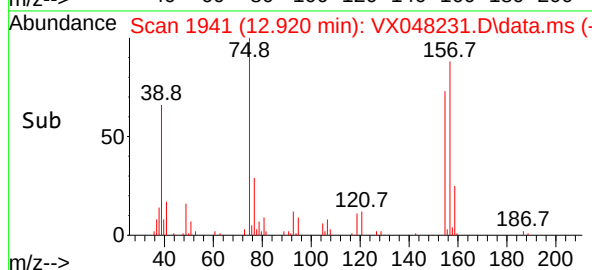
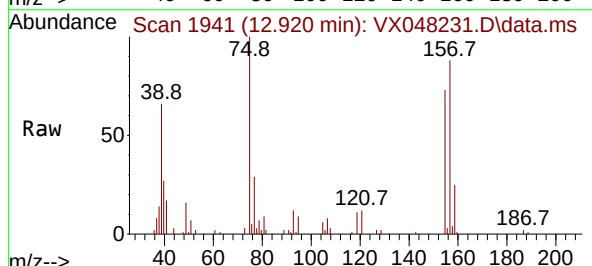
Manual Integrations
APPROVED

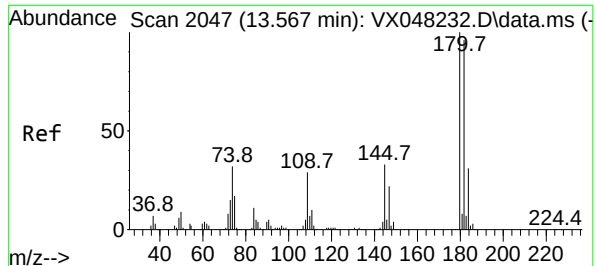
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 24.372 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion: 75 Resp: 7983
Ion Ratio Lower Upper
75 100
155 80.3 42.8 128.4
157 101.4 54.2 162.6





#93

1,2,4-Trichlorobenzene

Concen: 21.473 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

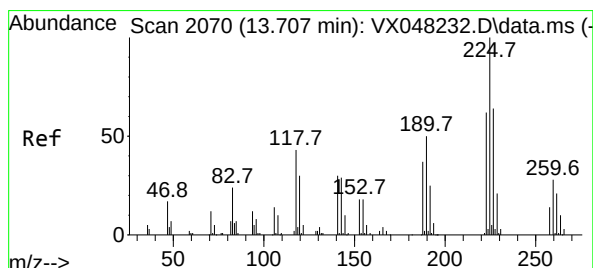
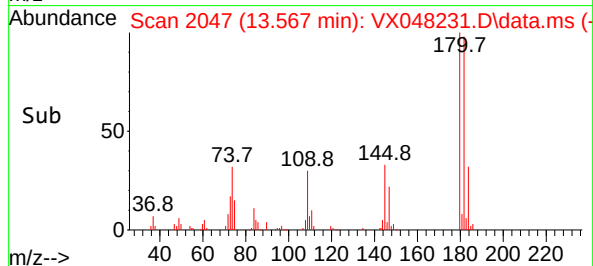
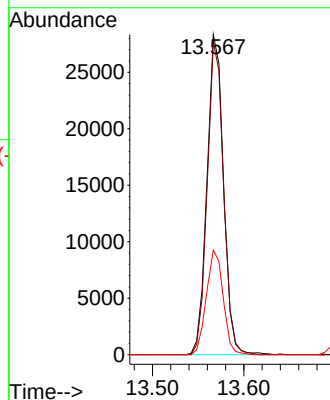
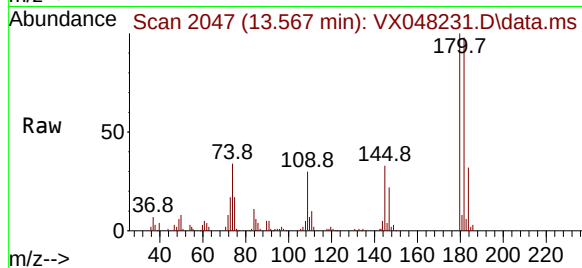
VSTDICC020

Tgt Ion:180	Resp:	3546
Ion Ratio	Lower	Upper
180	100	
182	96.3	47.3 142.0
145	33.2	16.3 48.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#94

Hexachlorobutadiene

Concen: 22.810 ug/l

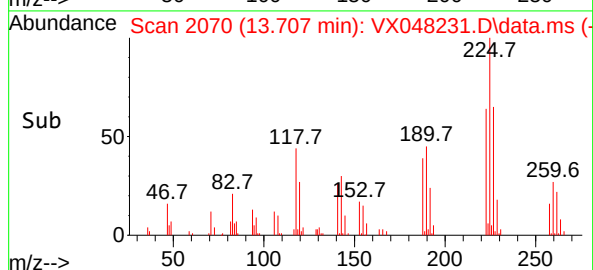
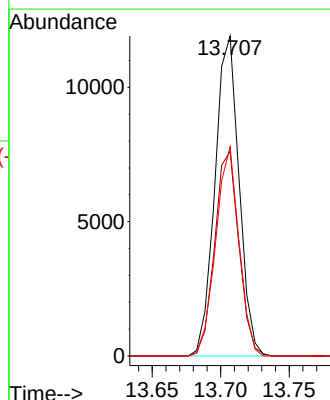
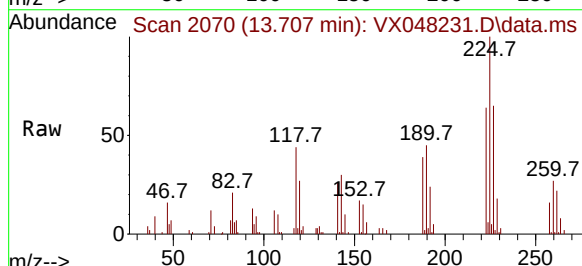
RT: 13.707 min Scan# 2070

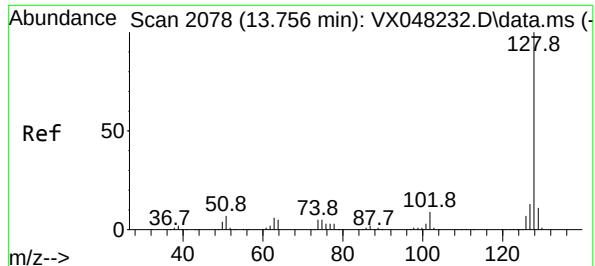
Delta R.T. 0.006 min

Lab File: VX048231.D

Acq: 20 Oct 2025 11:40

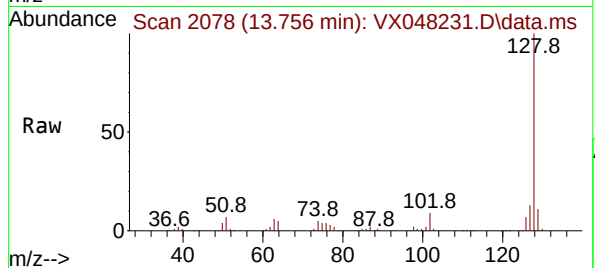
Tgt Ion:225	Resp:	14529
Ion Ratio	Lower	Upper
225	100	
223	64.3	32.6 97.7
227	63.2	32.5 97.4





#95
Naphthalene
Concen: 24.073 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

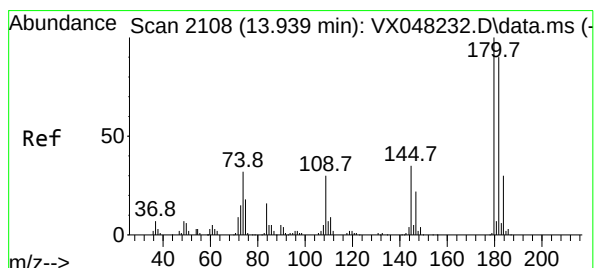
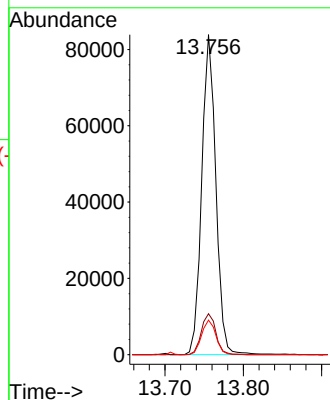
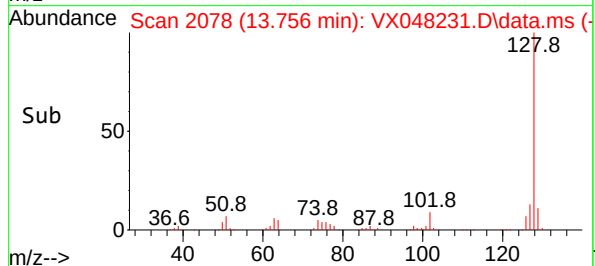
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:128 Resp: 10480
Ion Ratio Lower Upper
128 100
127 13.2 10.2 15.4
129 11.0 8.6 12.8

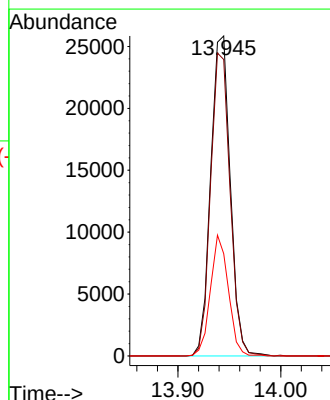
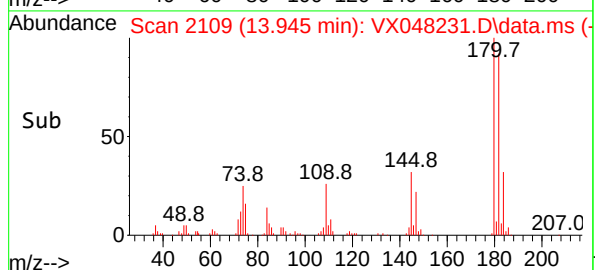
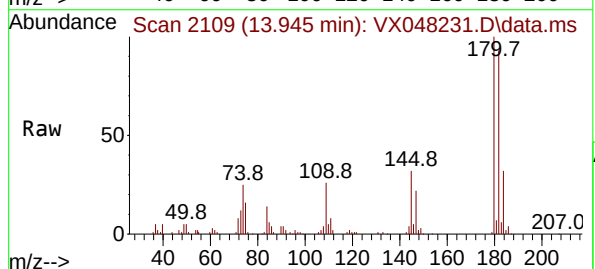
Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 22.493 ug/l
RT: 13.945 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX048231.D
Acq: 20 Oct 2025 11:40

Tgt Ion:180 Resp: 34276
Ion Ratio Lower Upper
180 100
182 94.0 46.6 139.7
145 34.6 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
 Data File : VX048232.D
 Acq On : 20 Oct 2025 12:01
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Quant Time: Oct 20 12:35:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 12:35:14 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/21/2025
 Supervised By : Semsettin Yesilyurt 10/21/2025

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	124491	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	201906	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	184494	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	92693	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.940	65	84951	44.048	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	88.100%
35) Dibromofluoromethane	5.379	113	66593	47.523	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.040%
50) Toluene-d8	8.635	98	239295	47.402	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	94.800%
62) 4-Bromofluorobenzene	11.061	95	89579	48.719	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	97.440%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.173	85	60172	46.052	ug/l	98
3) Chloromethane	1.301	50	55934	35.336	ug/l	100
4) Vinyl Chloride	1.380	62	51819	31.067	ug/l	99
5) Bromomethane	1.618	94	35101	31.646	ug/l	98
6) Chloroethane	1.697	64	30718	28.940	ug/l	95
7) Trichlorofluoromethane	1.898	101	100423	38.358	ug/l	99
8) Diethyl Ether	2.136	74	27723	31.044	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.337	101	62391	42.290	ug/l	95
10) Methyl Iodide	2.459	142	82552	46.716	ug/l	99
11) Tert butyl alcohol	2.947	59	38534	301.123	ug/l	99
12) 1,1-Dichloroethene	2.325	96	60330	41.821	ug/l	94
13) Acrolein	2.239	56	40536	150.726	ug/l	100
14) Allyl chloride	2.666	41	100234	38.627	ug/l	97
15) Acrylonitrile	3.056	53	149009	243.004	ug/l	100
16) Acetone	2.374	43	126003	191.520	ug/l	100
17) Carbon Disulfide	2.514	76	179492	40.440	ug/l	99
18) Methyl Acetate	2.703	43	58071	43.336	ug/l	91
19) Methyl tert-butyl Ether	3.111	73	212092	48.809	ug/l	96
20) Methylene Chloride	2.788	84	68663	42.841	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	66608	44.631	ug/l	96
22) Diisopropyl ether	3.757	45	206901	40.720	ug/l	91
23) Vinyl Acetate	3.715	43	839370	220.927	ug/l	97
24) 1,1-Dichloroethane	3.611	63	121657	42.204	ug/l	99
25) 2-Butanone	4.544	43	175075	228.411	ug/l	93
26) 2,2-Dichloropropane	4.471	77	109062	44.264	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	77911	43.988	ug/l	98
28) Bromochloromethane	4.885	49	54919	41.331	ug/l	85
29) Tetrahydrofuran	4.989	42	106381	236.335	ug/l	93
30) Chloroform	5.087	83	130274	42.925	ug/l	96
31) Cyclohexane	5.465	56	102251	43.351	ug/l	92
32) 1,1,1-Trichloroethane	5.373	97	121090	48.560	ug/l	99
36) 1,1-Dichloropropene	5.684	75	87493	44.323	ug/l	98
37) Ethyl Acetate	4.702	43	74261	47.073	ug/l	97
38) Carbon Tetrachloride	5.666	117	111708	49.302	ug/l	98
39) Methylcyclohexane	7.367	83	109077	49.008	ug/l	94
40) Benzene	6.025	78	262745	44.825	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
 Data File : VX048232.D
 Acq On : 20 Oct 2025 12:01
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Quant Time: Oct 20 12:35:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 12:35:14 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
 Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.904	41	41293	48.874	ug/l	96
42) 1,2-Dichloroethane	6.074	62	100937	48.064	ug/l	99
43) Isopropyl Acetate	6.324	43	128290	48.444	ug/l	96
44) Trichloroethene	7.111	130	70313	47.597	ug/l	98
45) 1,2-Dichloropropane	7.415	63	64895	43.746	ug/l	99
46) Dibromomethane	7.568	93	49874	46.726	ug/l	94
47) Bromodichloromethane	7.806	83	108671	47.107	ug/l	97
48) Methyl methacrylate	7.678	41	65057	47.990	ug/l	94
49) 1,4-Dioxane	7.647	88	17905	1467.288	ug/l	90
51) 4-Methyl-2-Pentanone	8.555	43	380665	258.320	ug/l	95
52) Toluene	8.702	92	173942	49.373	ug/l	100
53) t-1,3-Dichloropropene	8.964	75	109960	50.880	ug/l	99
54) cis-1,3-Dichloropropene	8.354	75	115534	49.046	ug/l	93
55) 1,1,2-Trichloroethane	9.135	97	64737	49.248	ug/l	96
56) Ethyl methacrylate	9.104	69	98851	55.290	ug/l	94
57) 1,3-Dichloropropane	9.293	76	110709	48.206	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.226	63	262387	285.817	ug/l	95
59) 2-Hexanone	9.415	43	269143	261.113	ug/l	96
60) Dibromochloromethane	9.506	129	85760	52.123	ug/l	98
61) 1,2-Dibromoethane	9.592	107	69022	51.208	ug/l	99
64) Tetrachloroethene	9.257	164	60510	46.776	ug/l	96
65) Chlorobenzene	10.061	112	192841	47.805	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	71930	49.482	ug/l	98
67) Ethyl Benzene	10.177	91	336660	48.680	ug/l	99
68) m/p-Xylenes	10.287	106	253662	98.455	ug/l	100
69) o-Xylene	10.622	106	122582	50.542	ug/l	98
70) Styrene	10.640	104	210861	50.508	ug/l	100
71) Bromoform	10.781	173	56874	53.279	ug/l #	100
73) Isopropylbenzene	10.945	105	317974	49.321	ug/l	100
74) N-amyl acetate	10.823	43	115683	48.098	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.195	83	87705	48.020	ug/l	99
76) 1,2,3-Trichloropropane	11.220	75	68104m	48.115	ug/l	
77) Bromobenzene	11.183	156	79543	49.303	ug/l	94
78) n-propylbenzene	11.287	91	372312	47.621	ug/l	98
79) 2-Chlorotoluene	11.348	91	222217	47.045	ug/l	98
80) 1,3,5-Trimethylbenzene	11.433	105	265174	50.108	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	29295	50.678	ug/l	98
82) 4-Chlorotoluene	11.439	91	267236	48.142	ug/l	98
83) tert-Butylbenzene	11.695	119	270202	50.539	ug/l	96
84) 1,2,4-Trimethylbenzene	11.732	105	265485	50.381	ug/l	99
85) sec-Butylbenzene	11.872	105	322219	49.298	ug/l	100
86) p-Isopropyltoluene	11.994	119	276821	50.246	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	143699	47.627	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	146196	46.744	ug/l	99
89) n-Butylbenzene	12.317	91	243063	47.367	ug/l	99
90) Hexachloroethane	12.518	117	52735	45.350	ug/l	96
91) 1,2-Dichlorobenzene	12.317	146	138489	48.582	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.927	75	18059	54.111	ug/l	99
93) 1,2,4-Trichlorobenzene	13.567	180	88920	52.839	ug/l	99
94) Hexachlorobutadiene	13.707	225	34615	53.334	ug/l	97
95) Naphthalene	13.756	128	257281	57.999	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	84279	54.281	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048232.D
Acq On : 20 Oct 2025 12:01
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 12:35:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 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\VX102025\
 Data File : VX048232.D
 Acq On : 20 Oct 2025 12:01
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

MSVOA_X

Client SampleId :

VSTDICCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025

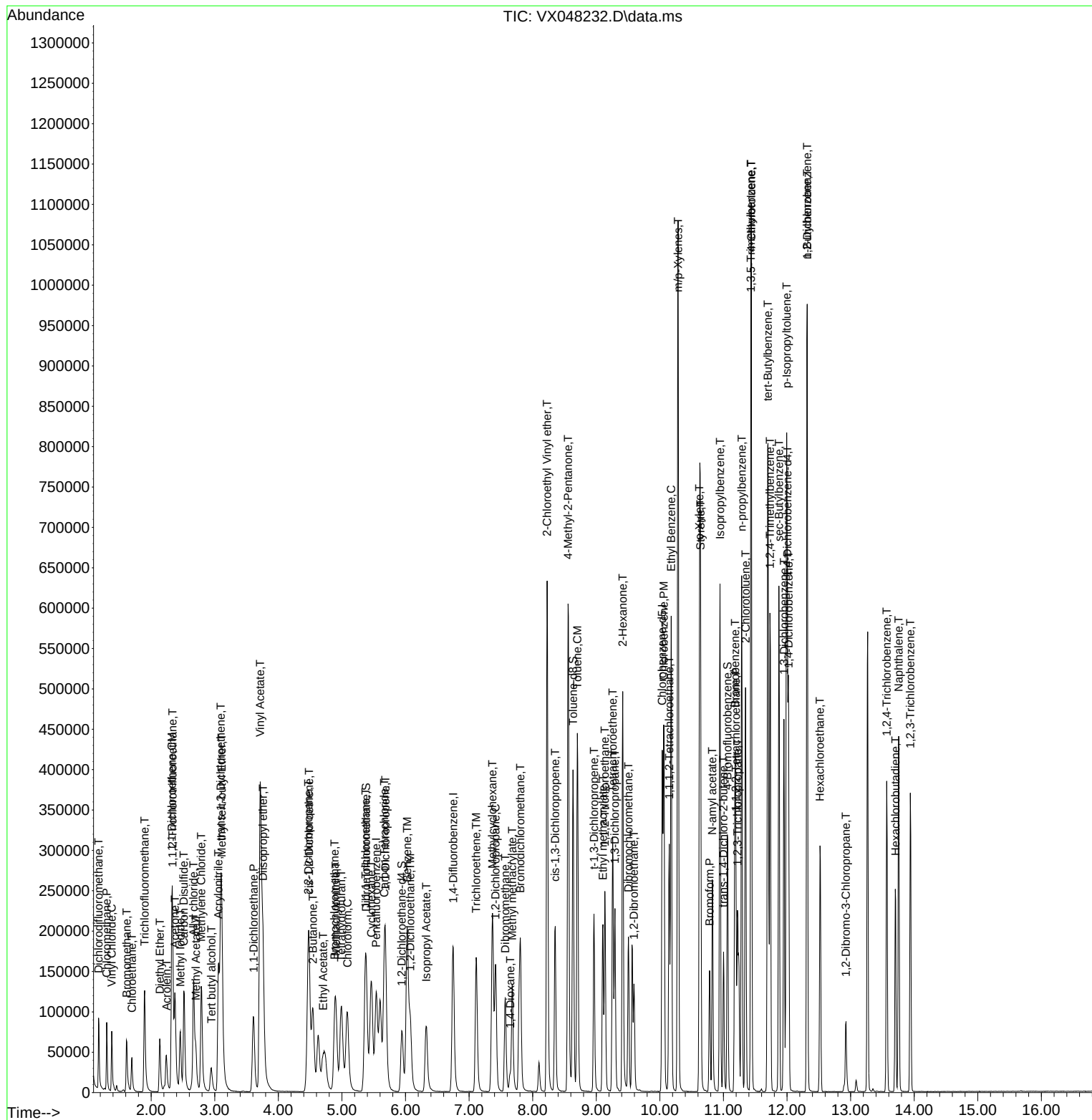
Quant Time: Oct 20 12:35:48 2025

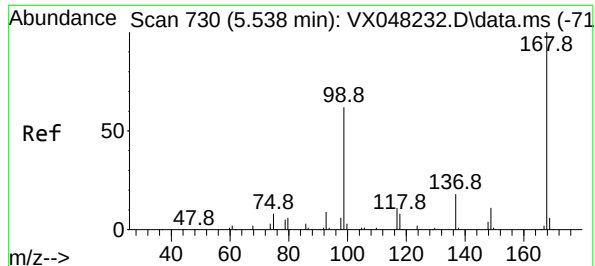
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Quant Title : SW846 8260

QLast Update : Mon Oct 20 12:35:14 2025

Response via : Initial Calibration





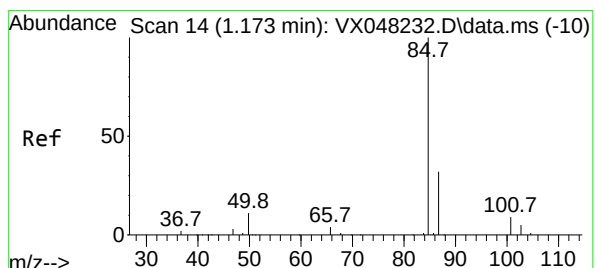
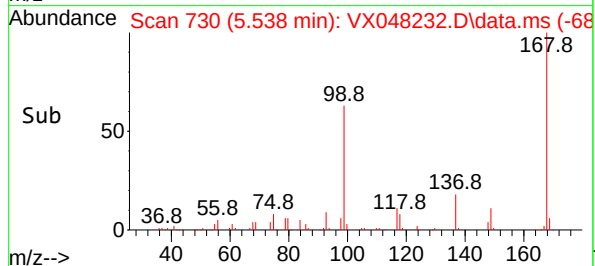
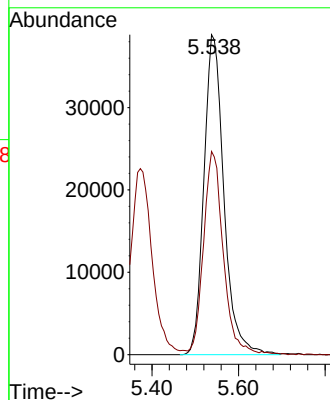
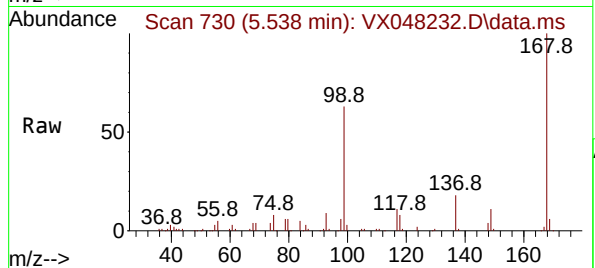
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 12449
Ion Ratio Lower Upper
168 100
99 63.3 46.4 69.6

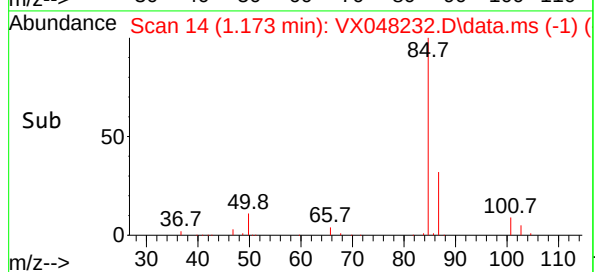
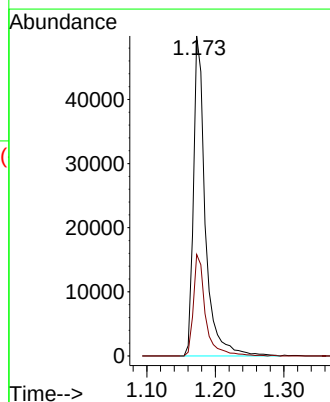
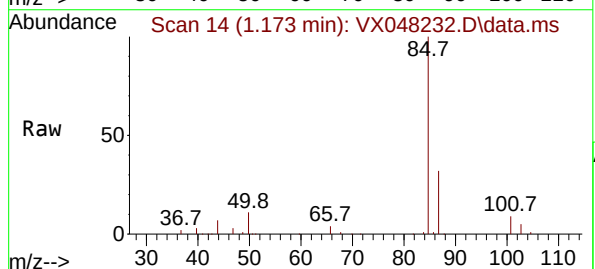
Manual Integrations
APPROVED

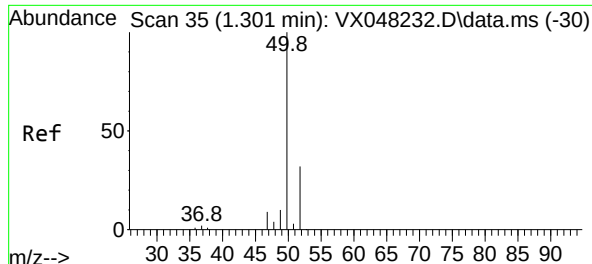
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#2
Dichlorodifluoromethane
Concen: 46.052 ug/l
RT: 1.173 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 85 Resp: 60172
Ion Ratio Lower Upper
85 100
87 31.7 15.3 45.9





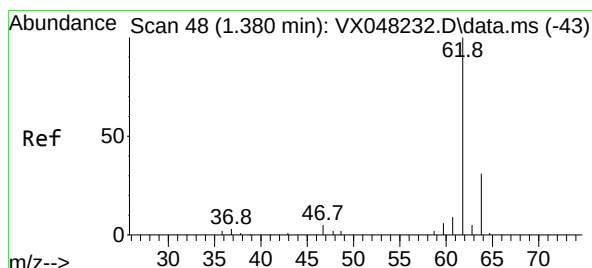
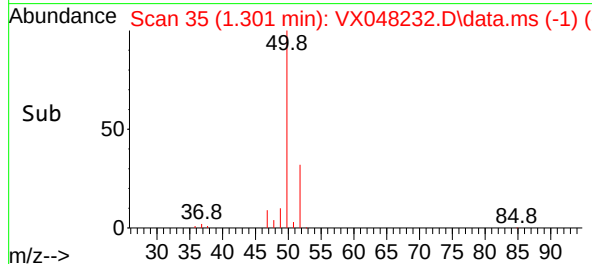
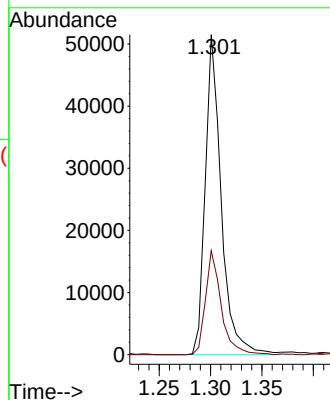
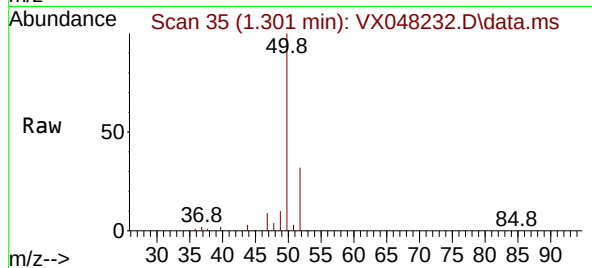
#3
Chloromethane
Concen: 35.336 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 55934
Ion Ratio Lower Upper
50 100
52 32.5 25.9 38.9

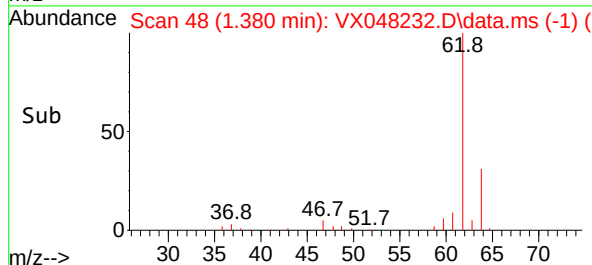
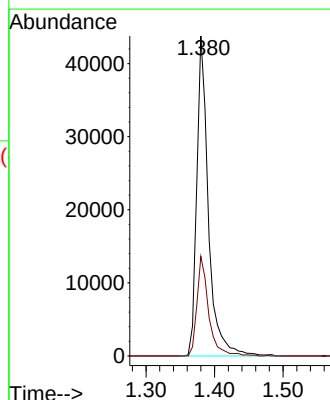
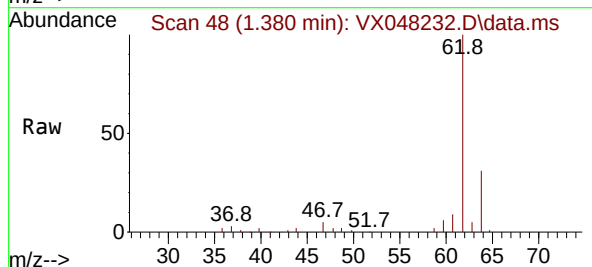
Manual Integrations
APPROVED

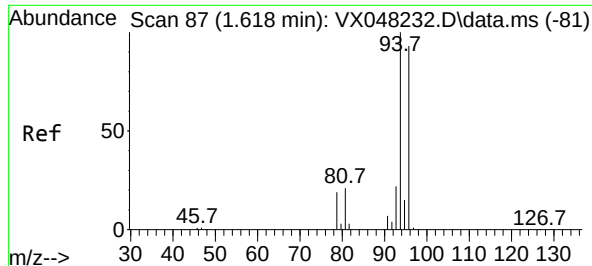
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#4
Vinyl Chloride
Concen: 31.067 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 62 Resp: 51819
Ion Ratio Lower Upper
62 100
64 31.1 25.1 37.7





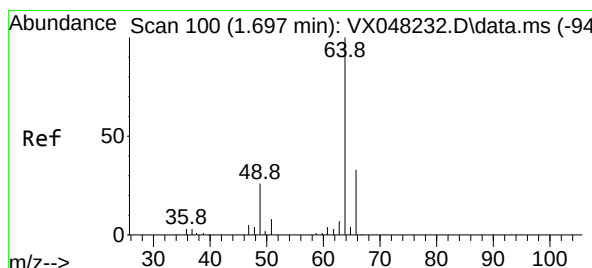
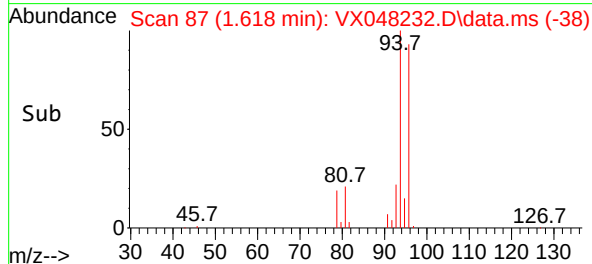
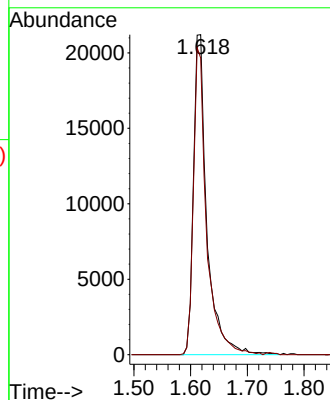
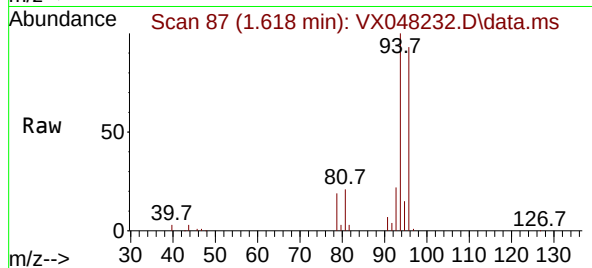
#5
Bromomethane
Concen: 31.646 ug/l
RT: 1.618 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 3510
Ion Ratio Lower Upper
94 100
96 92.7 76.0 114.0

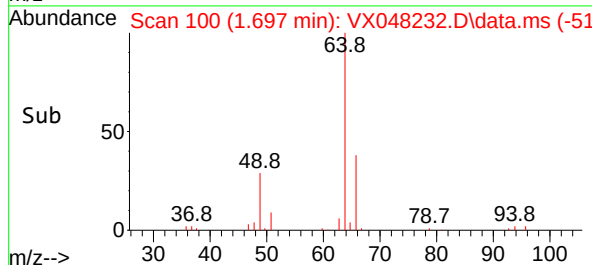
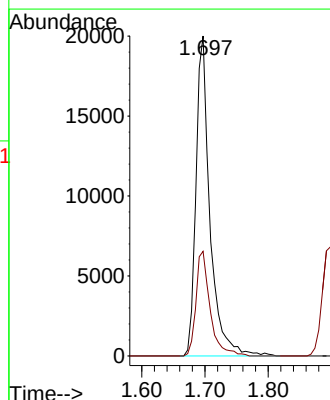
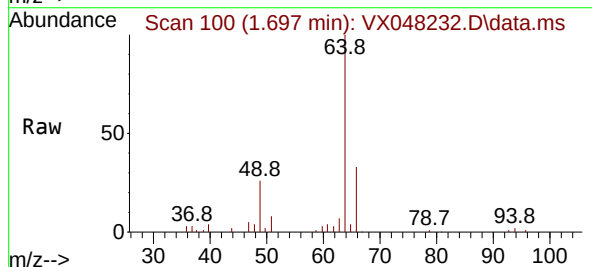
Manual Integrations
APPROVED

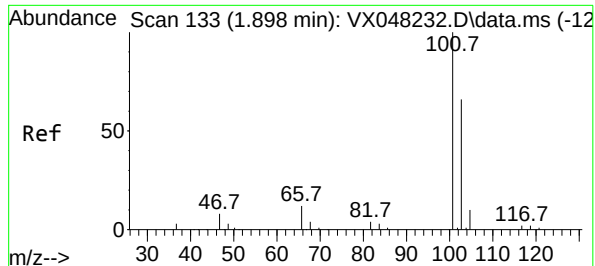
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#6
Chloroethane
Concen: 28.940 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 64 Resp: 30718
Ion Ratio Lower Upper
64 100
66 32.7 23.9 35.9





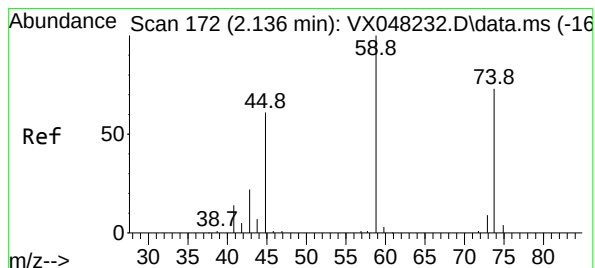
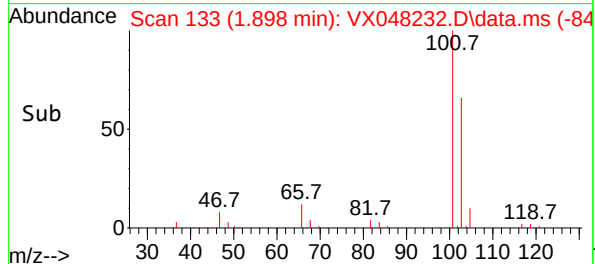
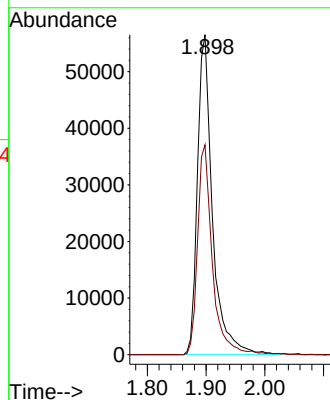
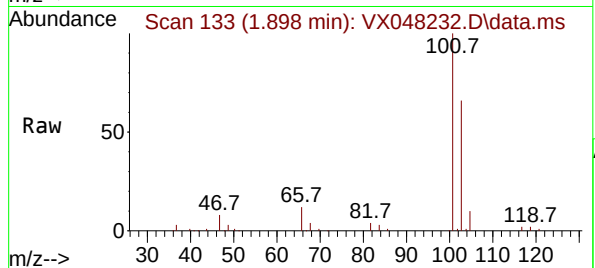
#7
Trichlorofluoromethane
Concen: 38.358 ug/l
RT: 1.898 min Scan# 133
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 10042
Ion Ratio Lower Upper
101 100
103 65.6 51.6 77.4

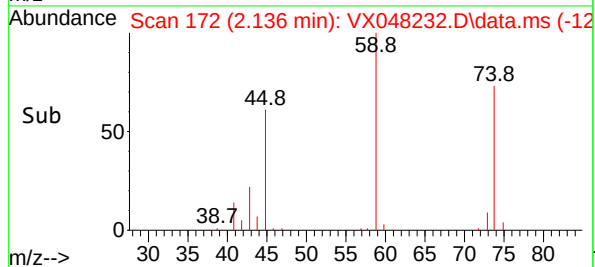
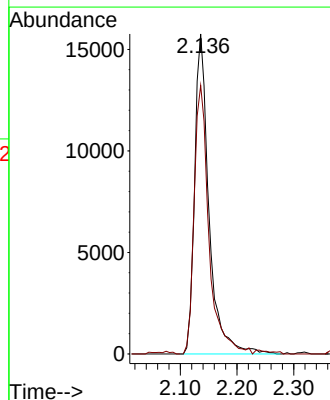
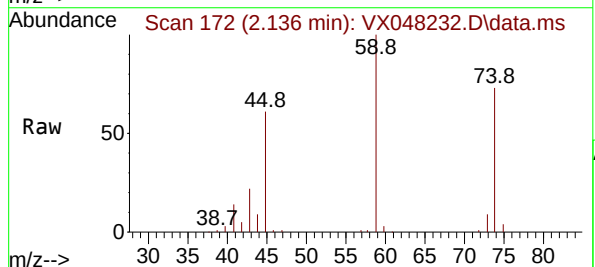
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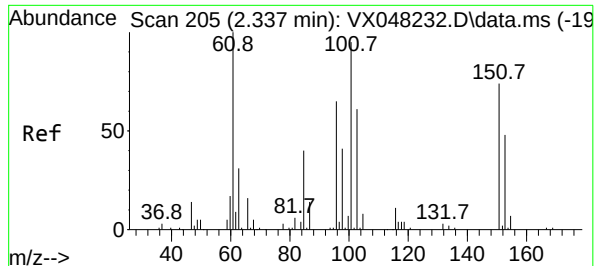
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#8
Diethyl Ether
Concen: 31.044 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 74 Resp: 27723
Ion Ratio Lower Upper
74 100
45 86.5 50.0 149.8





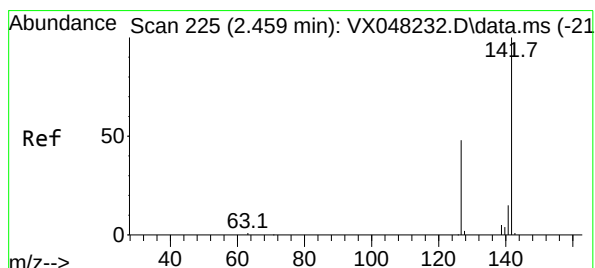
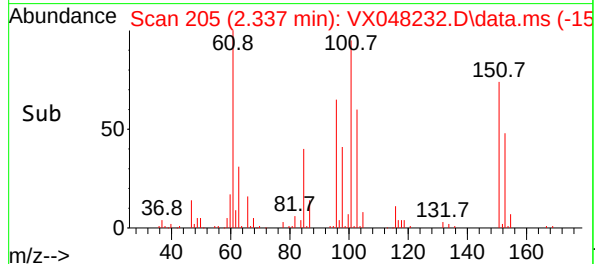
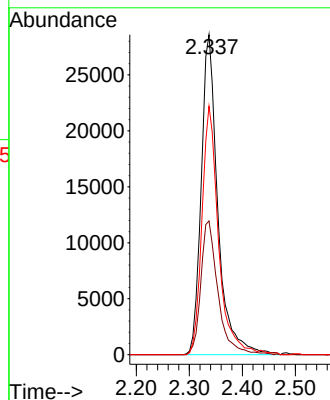
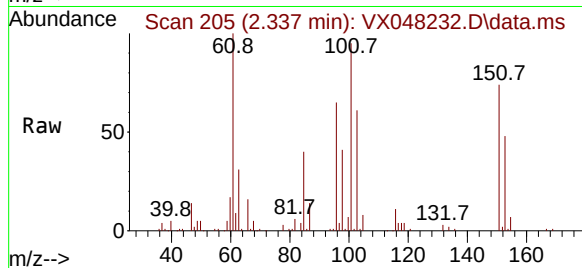
#9
1,1,2-Trichlorotrifluoroethane
Concen: 42.290 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 6239
Ion Ratio Lower Upper
101 100
85 43.2 35.6 53.4
151 77.9 58.0 87.0

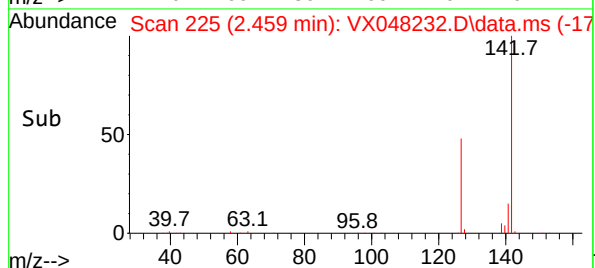
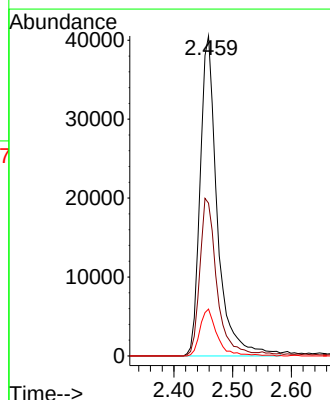
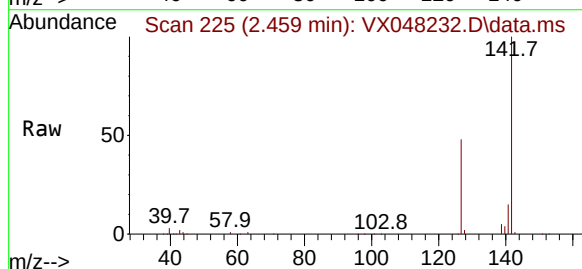
Manual Integrations
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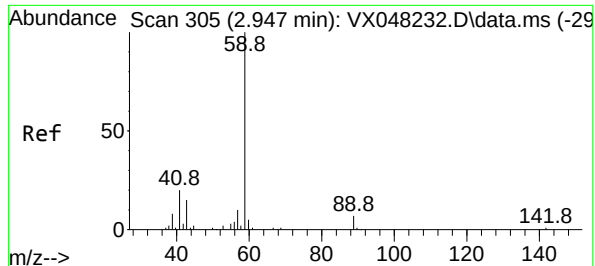
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#10
Methyl Iodide
Concen: 46.716 ug/l
RT: 2.459 min Scan# 225
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:142 Resp: 82552
Ion Ratio Lower Upper
142 100
127 48.9 38.5 57.7
141 14.7 11.6 17.4





#11

Tert butyl alcohol

Concen: 301.123 ug/l

RT: 2.947 min Scan# 305

Delta R.T. 0.006 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 38534

Ion Ratio Lower Upper

59 100

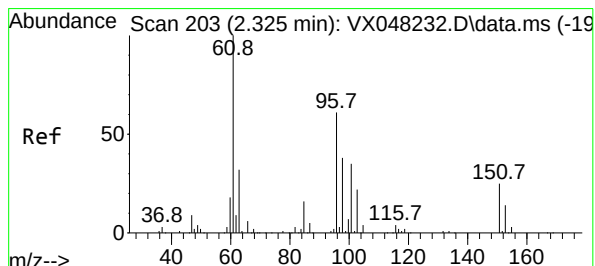
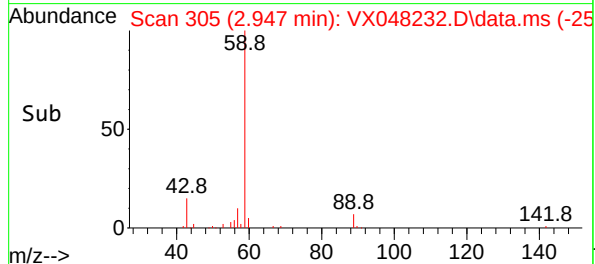
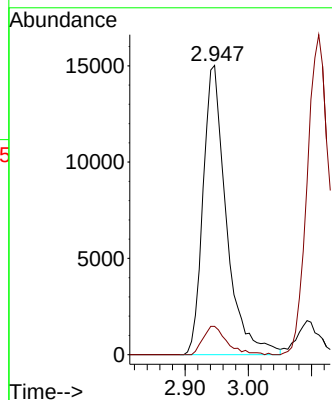
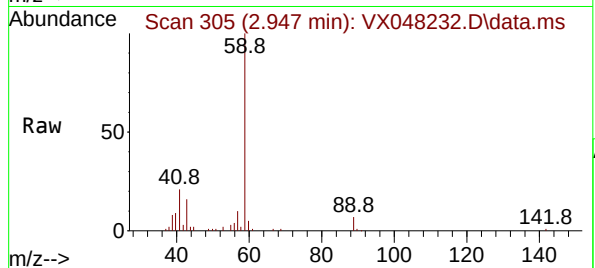
57 10.1 8.2 12.4

Manual Integrations

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Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#12

1,1-Dichloroethene

Concen: 41.821 ug/l

RT: 2.325 min Scan# 203

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

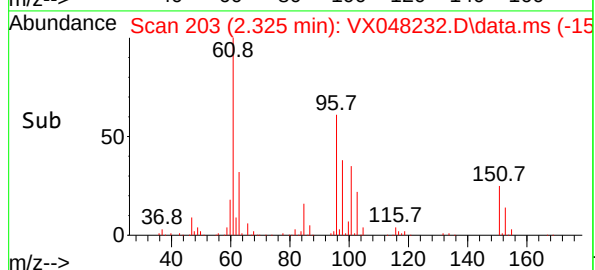
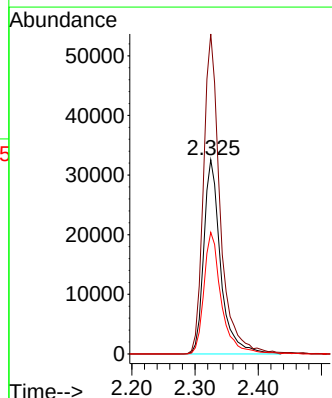
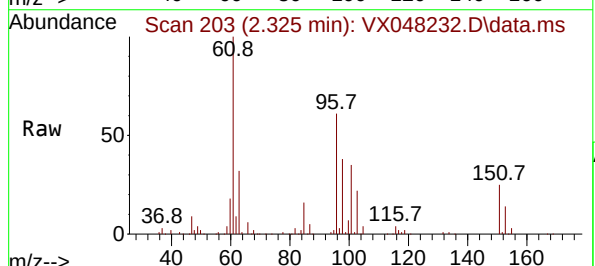
Tgt Ion: 96 Resp: 60330

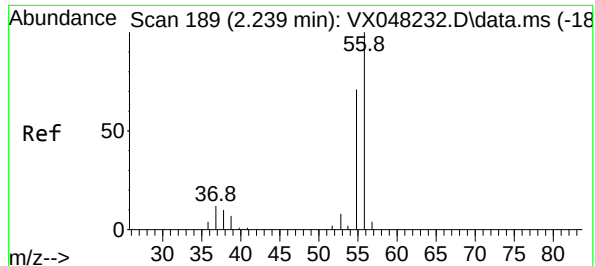
Ion Ratio Lower Upper

96 100

61 164.7 139.0 208.6

98 62.6 52.4 78.6





#13

Acrolein

Concen: 150.726 ug/l

RT: 2.239 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 40530

Ion Ratio Lower Upper

56 100

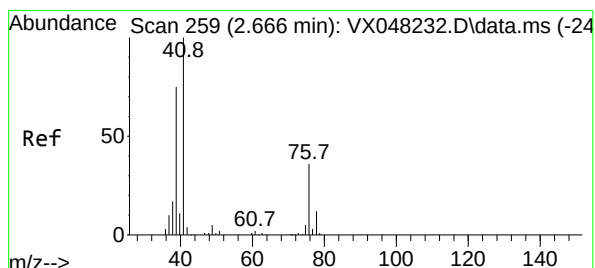
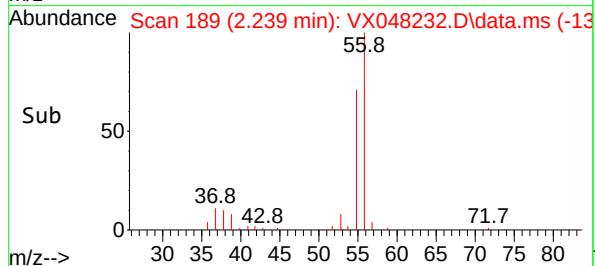
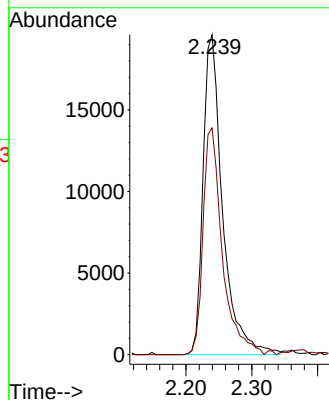
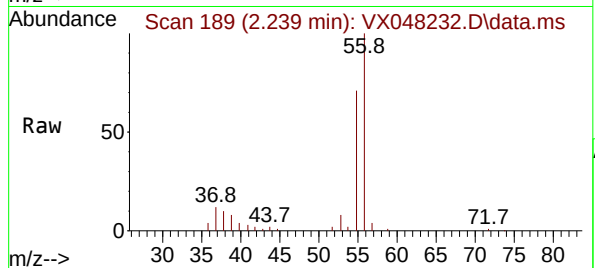
55 69.8 56.1 84.1

Manual Integrations

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Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#14

Allyl chloride

Concen: 38.627 ug/l

RT: 2.666 min Scan# 259

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

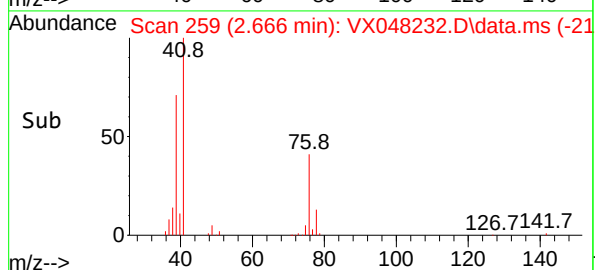
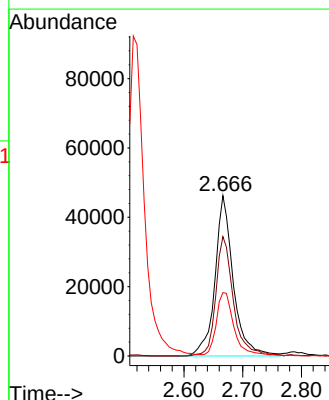
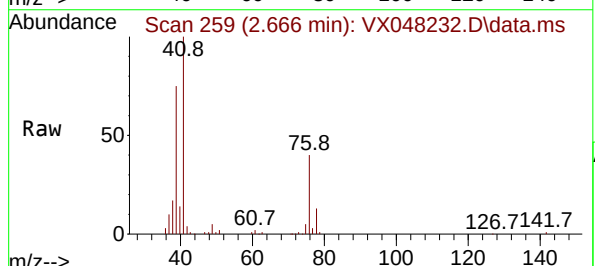
Tgt Ion: 41 Resp: 100234

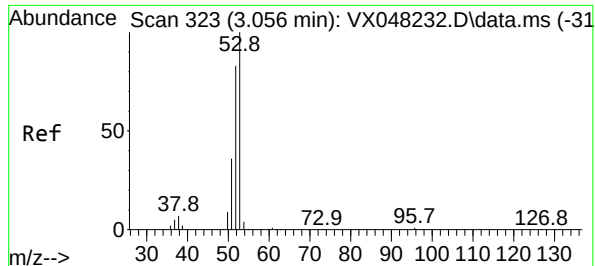
Ion Ratio Lower Upper

41 100

39 71.0 56.0 84.0

76 38.6 27.5 41.3





#15

Acrylonitrile

Concen: 243.004 ug/l

RT: 3.056 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 53 Resp: 149009

Ion Ratio Lower Upper

53 100

52 82.9 66.1 99.1

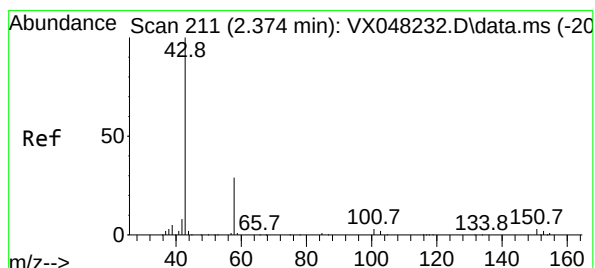
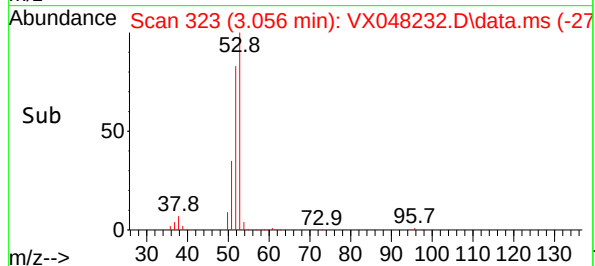
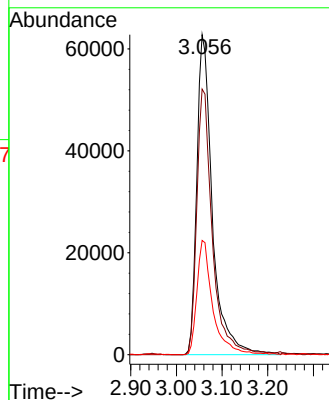
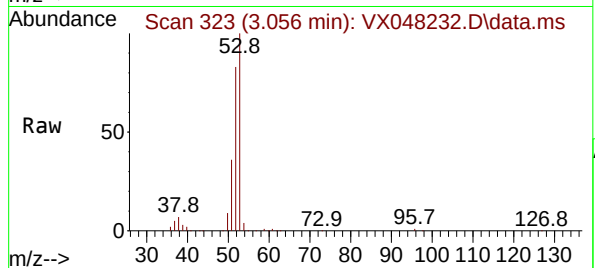
51 36.6 29.0 43.4

Manual Integrations

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Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#16

Acetone

Concen: 191.520 ug/l

RT: 2.374 min Scan# 211

Delta R.T. 0.000 min

Lab File: VX048232.D

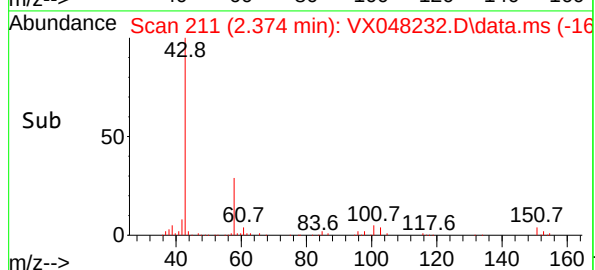
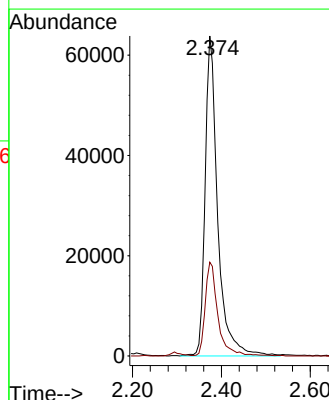
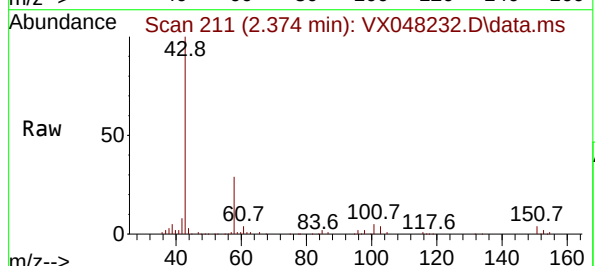
Acq: 20 Oct 2025 12:01

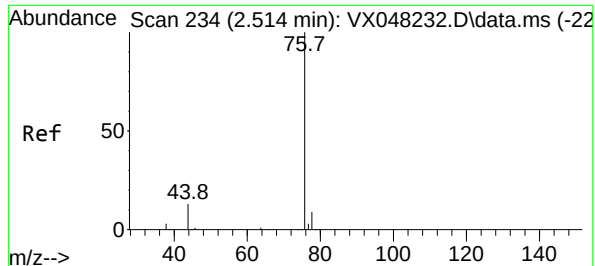
Tgt Ion: 43 Resp: 126003

Ion Ratio Lower Upper

43 100

58 29.2 23.4 35.2





#17

Carbon Disulfide

Concen: 40.440 ug/l

RT: 2.514 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 17949

Ion Ratio Lower Upper

76 100

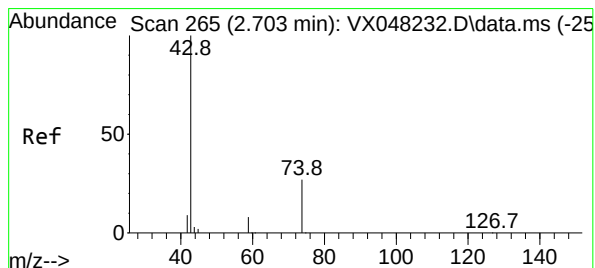
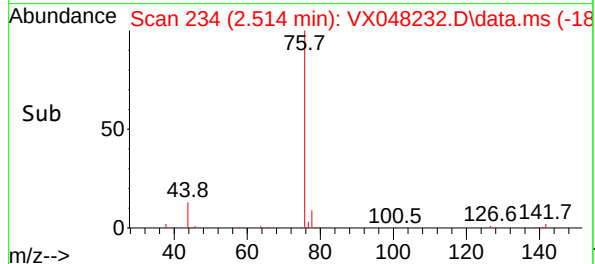
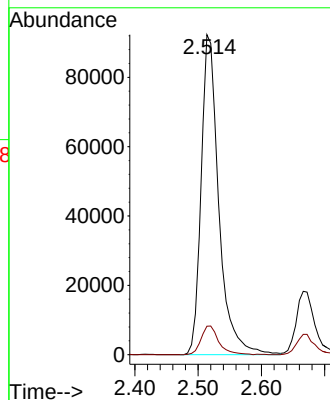
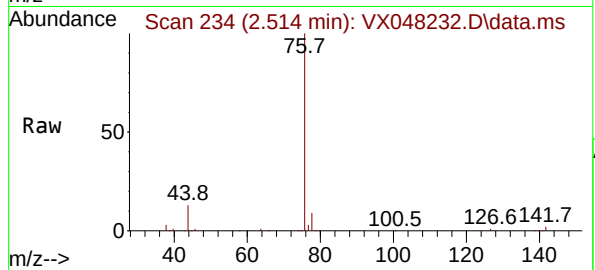
78 9.1 7.1 10.7

Manual Integrations

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Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#18

Methyl Acetate

Concen: 43.336 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.006 min

Lab File: VX048232.D

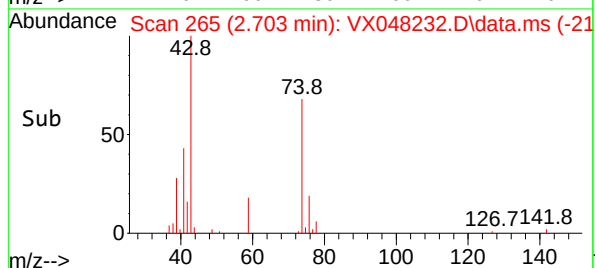
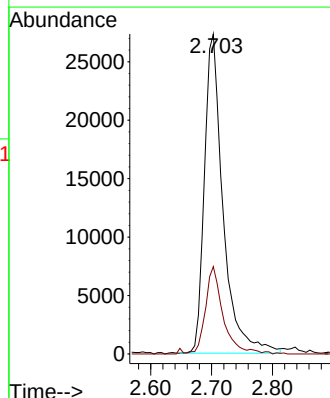
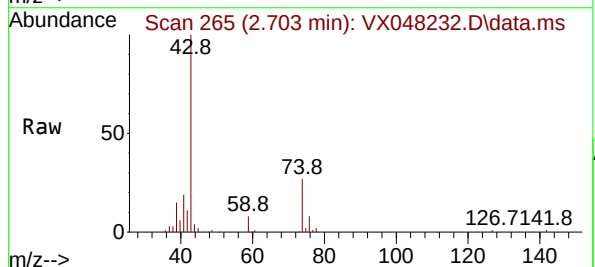
Acq: 20 Oct 2025 12:01

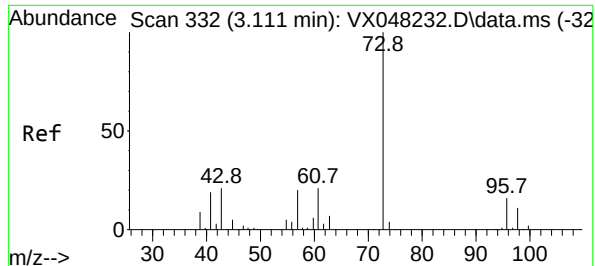
Tgt Ion: 43 Resp: 58071

Ion Ratio Lower Upper

43 100

74 26.0 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 48.809 ug/l

RT: 3.111 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 212092

Ion Ratio Lower Upper

73 100

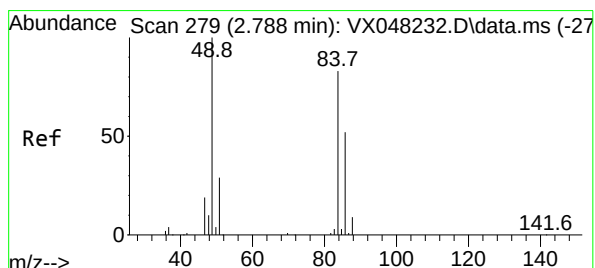
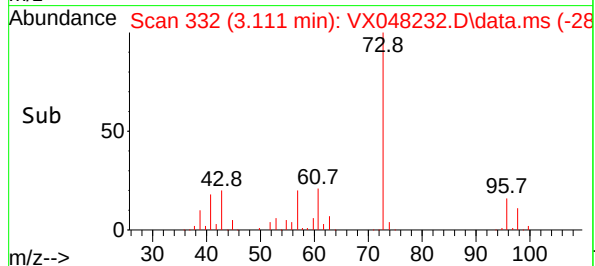
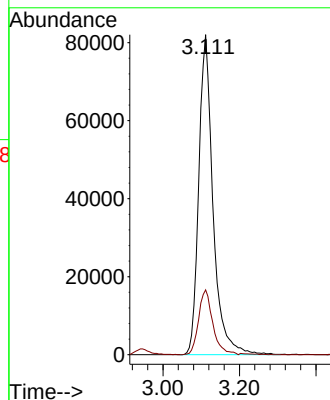
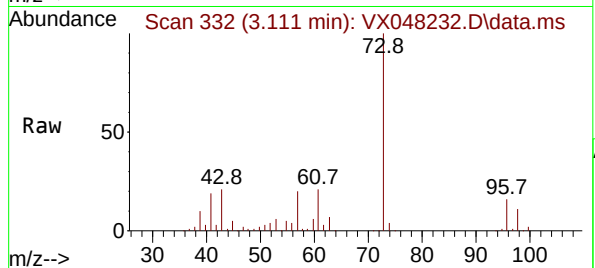
57 20.3 17.7 26.5

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Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#20

Methylene Chloride

Concen: 42.841 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Tgt Ion: 84 Resp: 68663

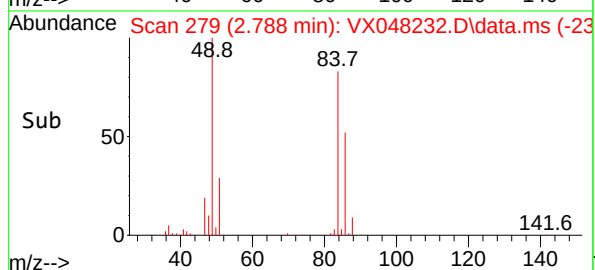
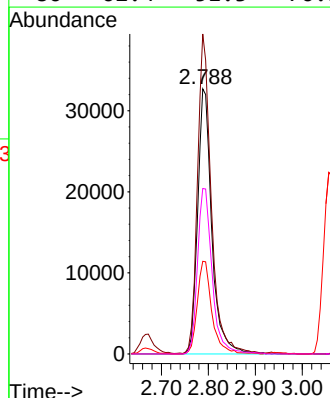
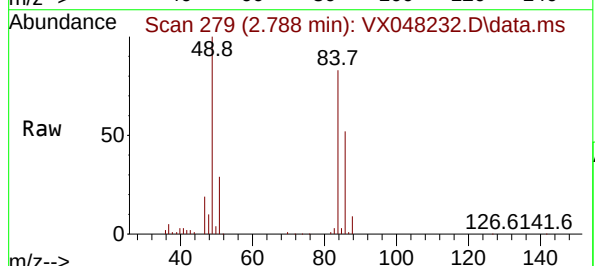
Ion Ratio Lower Upper

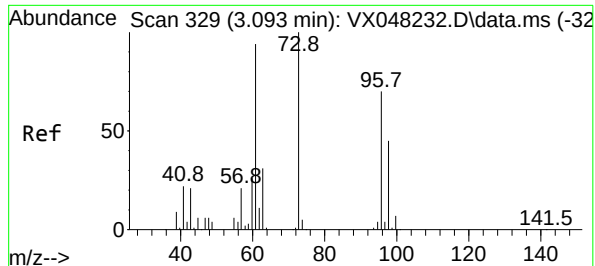
84 100

49 120.4 104.1 156.1

51 35.0 31.3 46.9

86 62.4 51.3 76.9





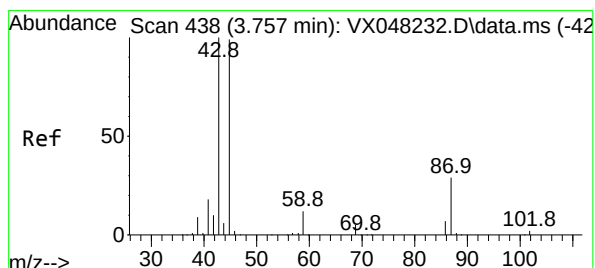
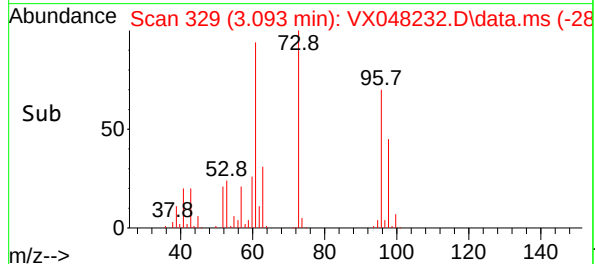
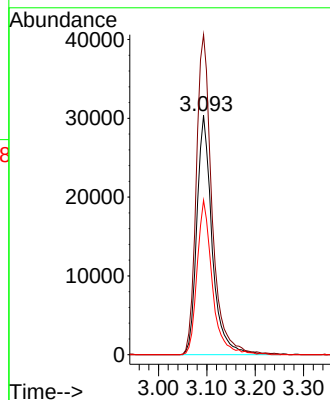
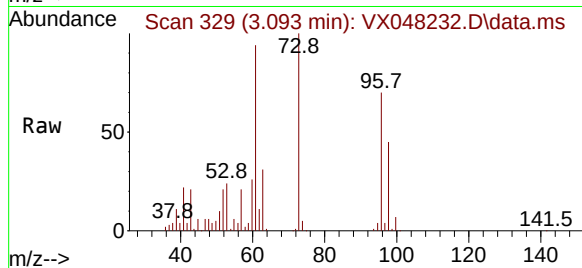
#21
trans-1,2-Dichloroethene
Concen: 44.631 ug/l
RT: 3.093 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 66608
Ion Ratio Lower Upper
96 100
61 133.8 111.9 167.9
98 64.5 51.2 76.8

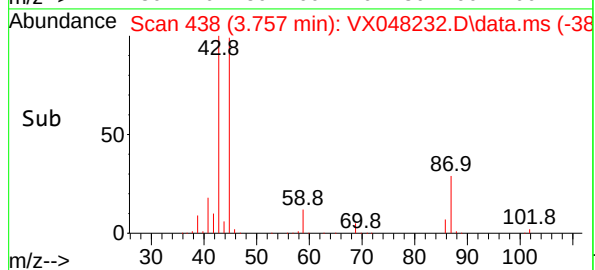
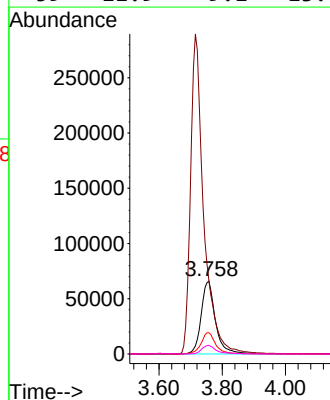
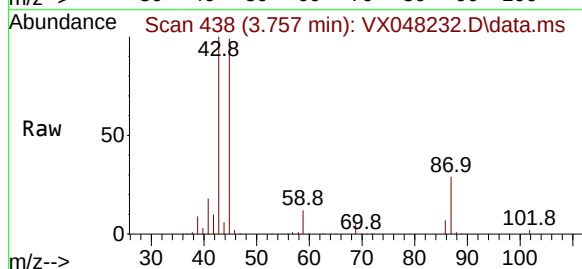
Manual Integrations
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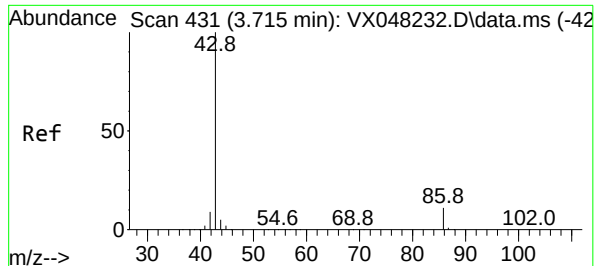
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#22
Diisopropyl ether
Concen: 40.720 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 45 Resp: 206901
Ion Ratio Lower Upper
45 100
43 101.1 89.8 134.8
87 29.3 20.6 31.0
59 11.9 9.1 13.7





#23

Vinyl Acetate

Concen: 220.927 ug/l

RT: 3.715 min Scan# 41

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 839370

Ion Ratio Lower Upper

43 100

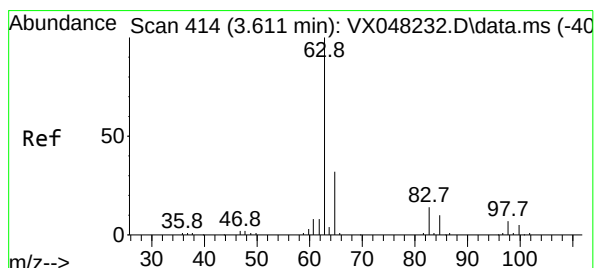
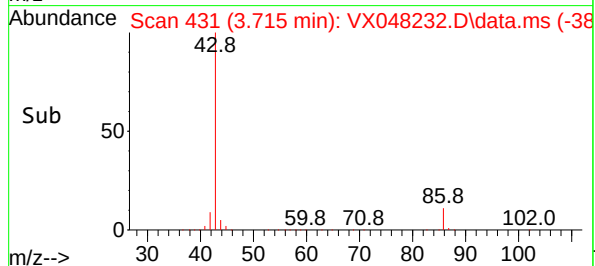
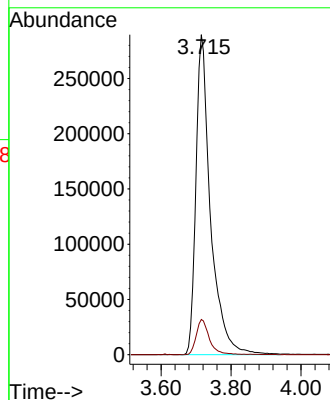
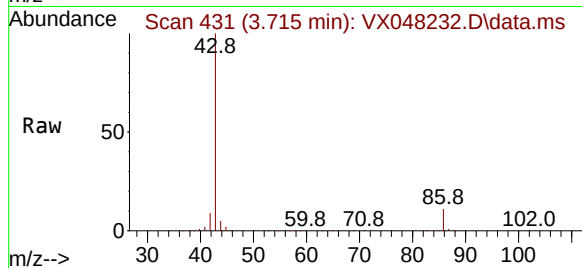
86 11.0 7.9 11.9

Manual Integrations

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Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#24

1,1-Dichloroethane

Concen: 42.204 ug/l

RT: 3.611 min Scan# 414

Delta R.T. 0.006 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

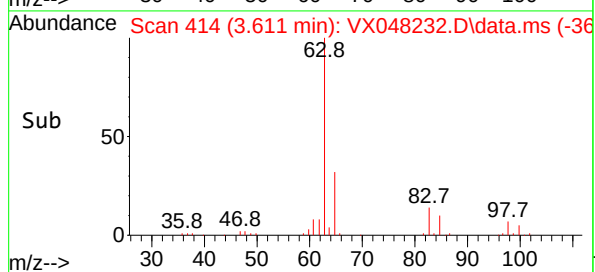
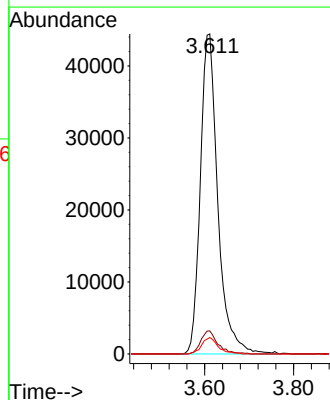
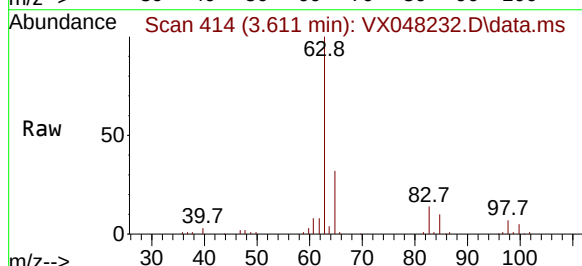
Tgt Ion: 63 Resp: 121657

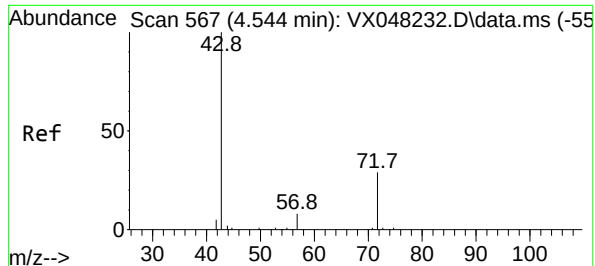
Ion Ratio Lower Upper

63 100

98 7.2 3.5 10.6

100 5.1 2.1 6.3





#25

2-Butanone

Concen: 228.411 ug/l

RT: 4.544 min Scan# 5

Delta R.T. 0.006 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 17507

Ion Ratio Lower Upper

43 100

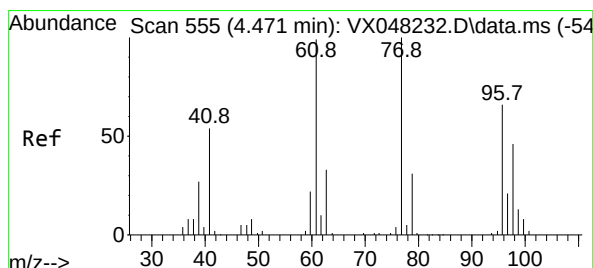
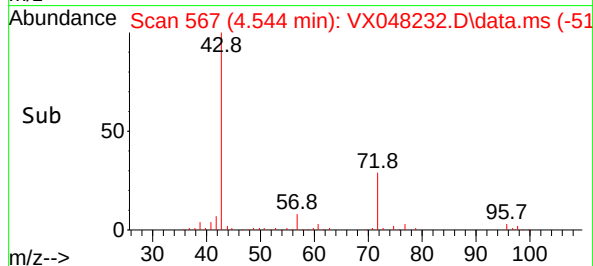
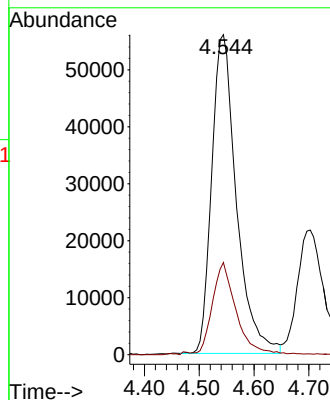
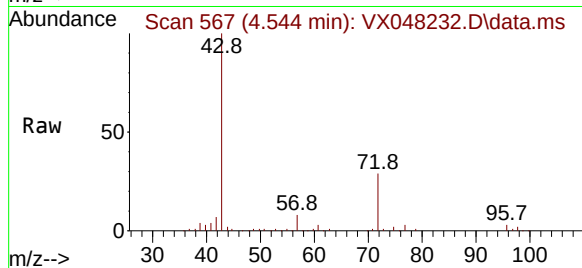
72 28.6 19.9 29.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#26

2,2-Dichloropropane

Concen: 44.264 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX048232.D

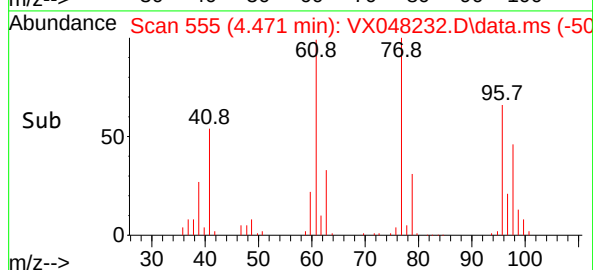
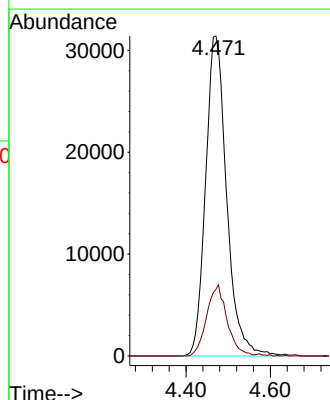
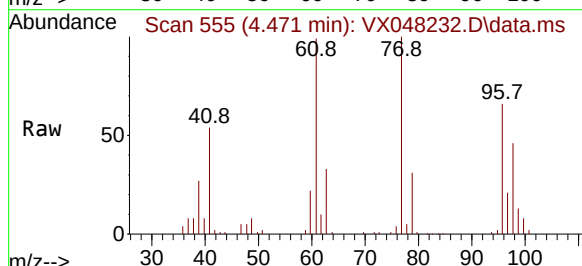
Acq: 20 Oct 2025 12:01

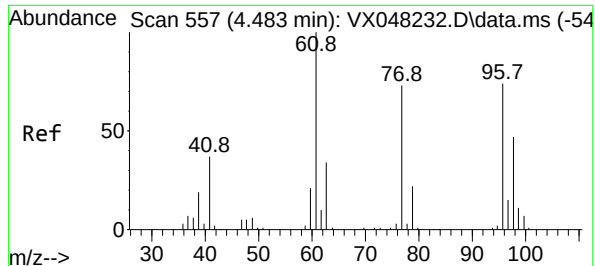
Tgt Ion: 77 Resp: 109062

Ion Ratio Lower Upper

77 100

97 21.5 11.1 33.3





#27

cis-1,2-Dichloroethene

Concen: 43.988 ug/l

RT: 4.483 min Scan# 557

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 7791

Ion Ratio Lower Upper

96 100

61 144.4 0.0 294.2

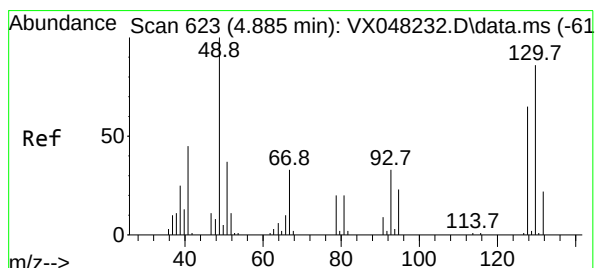
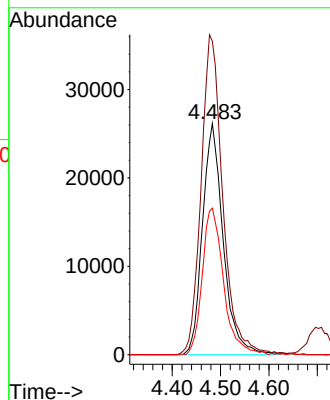
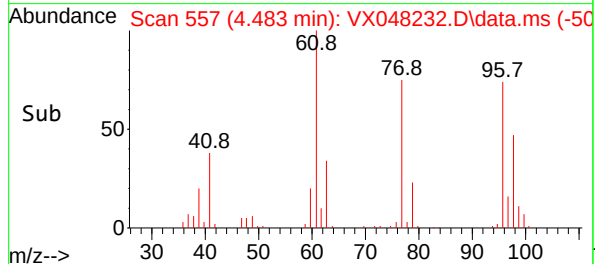
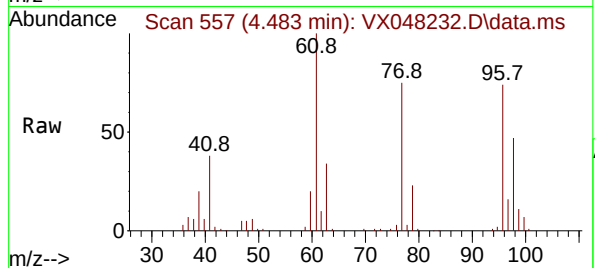
98 64.9 0.0 128.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#28

Bromochloromethane

Concen: 41.331 ug/l

RT: 4.885 min Scan# 623

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

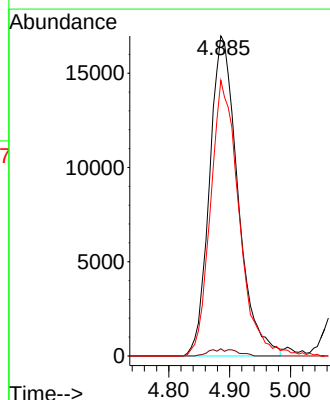
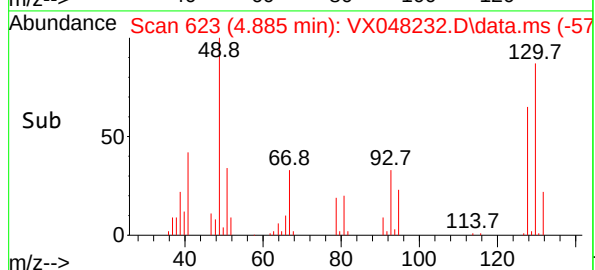
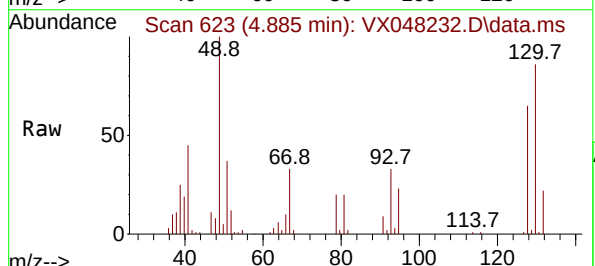
Tgt Ion: 49 Resp: 54919

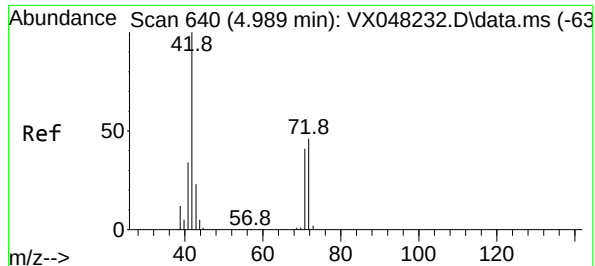
Ion Ratio Lower Upper

49 100

129 0.8 0.0 4.4

130 86.9 59.3 88.9





#29

Tetrahydrofuran

Concen: 236.335 ug/l

RT: 4.989 min Scan# 640

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 10638

Ion Ratio Lower Upper

42 100

72 49.2 35.3 52.9

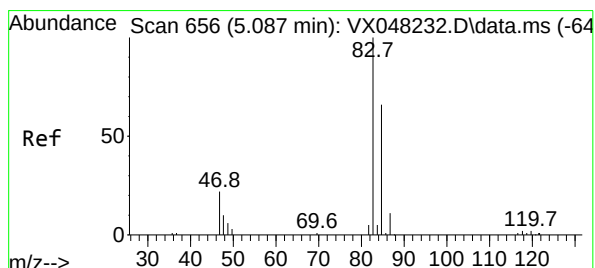
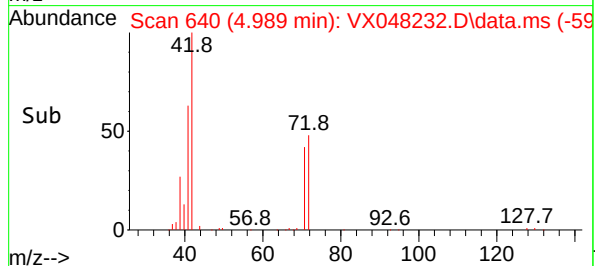
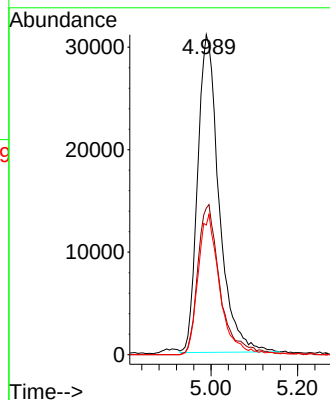
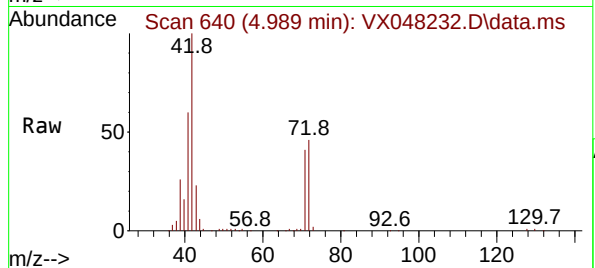
71 44.3 32.2 48.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#30

Chloroform

Concen: 42.925 ug/l

RT: 5.087 min Scan# 656

Delta R.T. 0.006 min

Lab File: VX048232.D

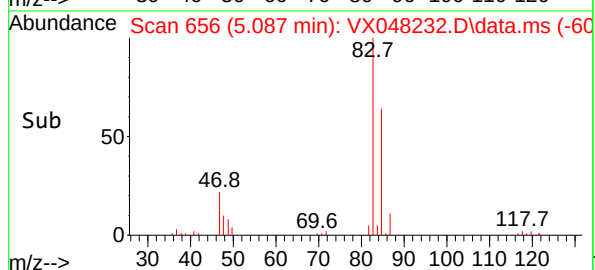
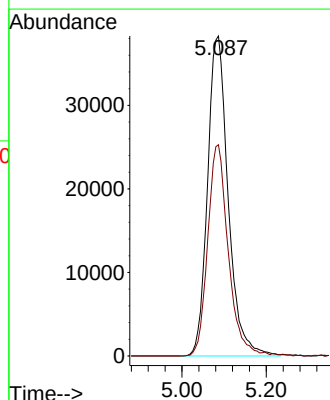
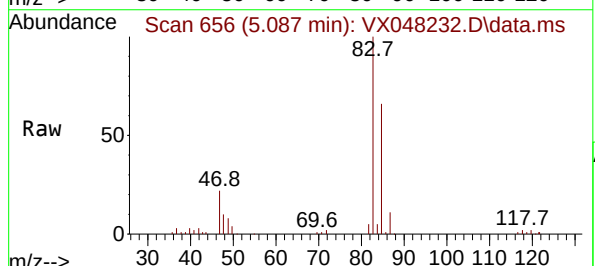
Acq: 20 Oct 2025 12:01

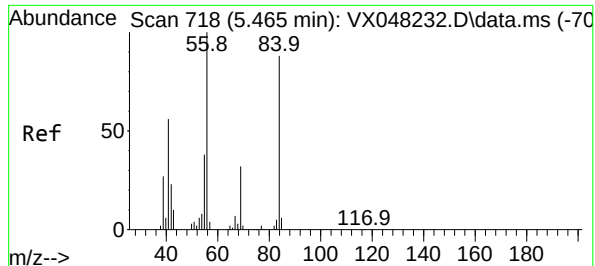
Tgt Ion: 83 Resp: 130274

Ion Ratio Lower Upper

83 100

85 66.0 50.1 75.1





#31

Cyclohexane

Concen: 43.351 ug/l

RT: 5.465 min Scan# 718

Delta R.T. 0.006 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 10225

Ion Ratio Lower Upper

56 100

69 32.2 23.0 34.6

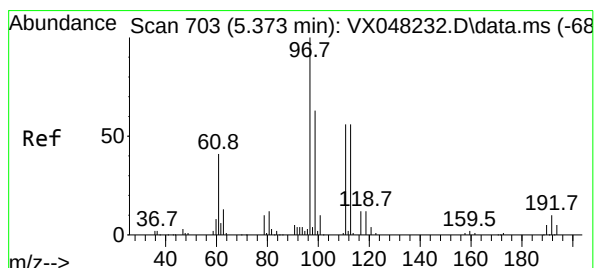
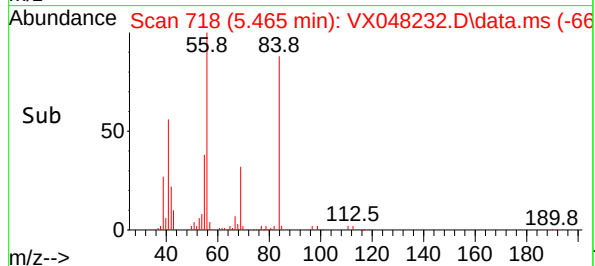
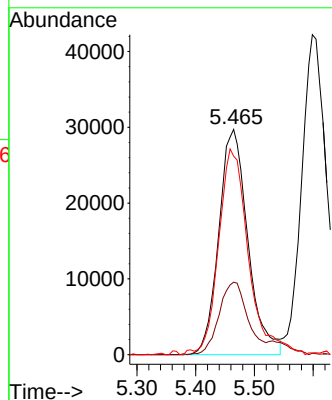
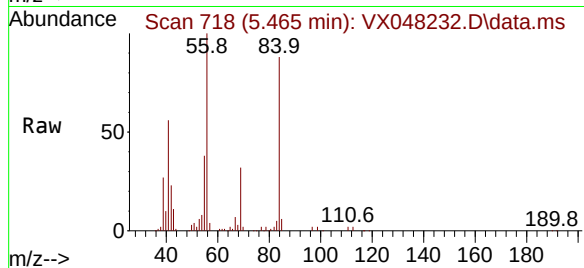
84 87.9 64.6 97.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#32

1,1,1-Trichloroethane

Concen: 48.560 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

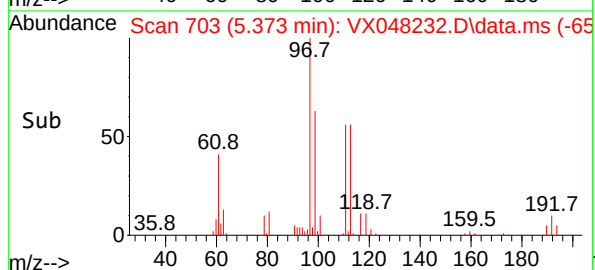
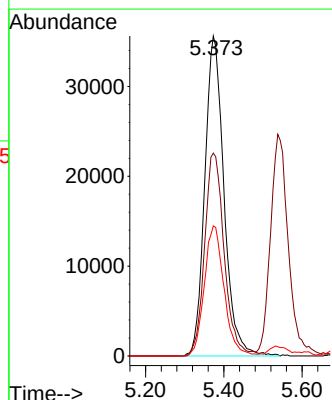
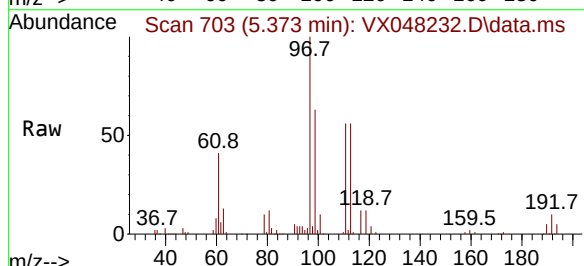
Tgt Ion: 97 Resp: 121090

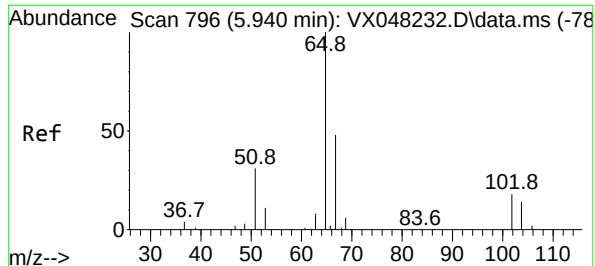
Ion Ratio Lower Upper

97 100

99 64.5 51.7 77.5

61 41.8 34.8 52.2





#33

1,2-Dichloroethane-d4

Concen: 44.048 ug/l

RT: 5.940 min Scan# 796

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 8495

Ion Ratio Lower Upper

65 100

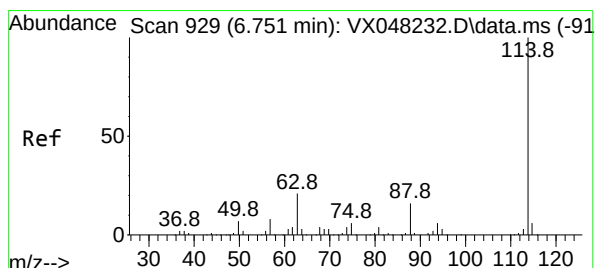
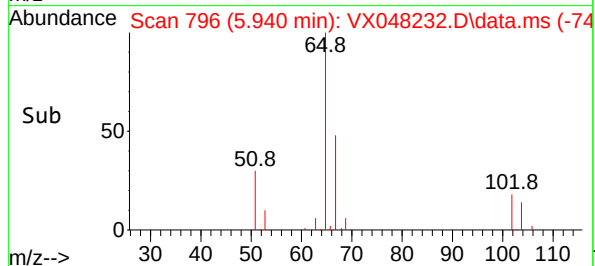
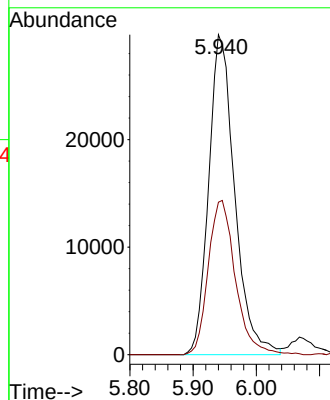
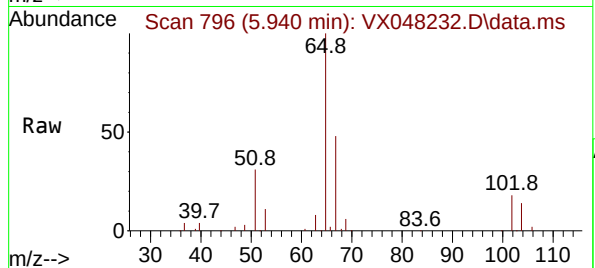
67 50.4 0.0 105.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

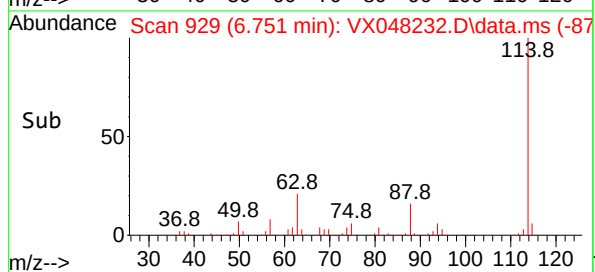
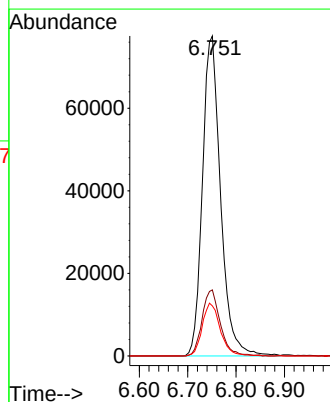
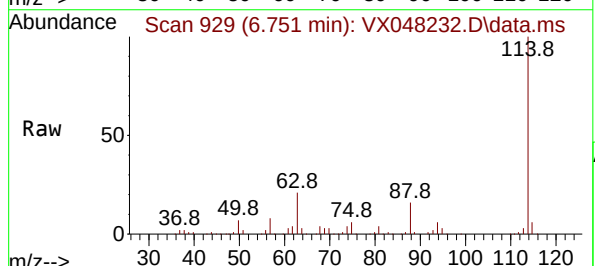
Tgt Ion:114 Resp: 201906

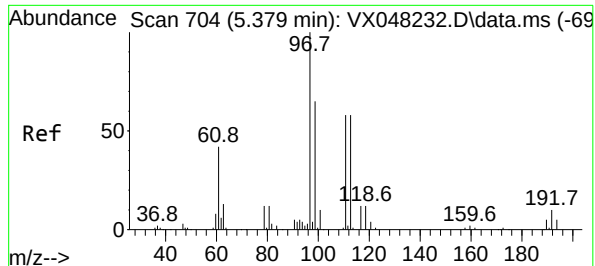
Ion Ratio Lower Upper

114 100

63 20.7 0.0 43.2

88 15.7 0.0 33.6





#35

Dibromofluoromethane

Concen: 47.523 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

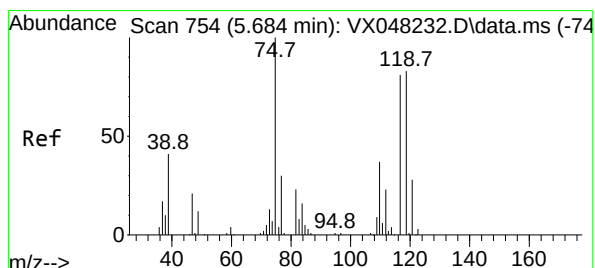
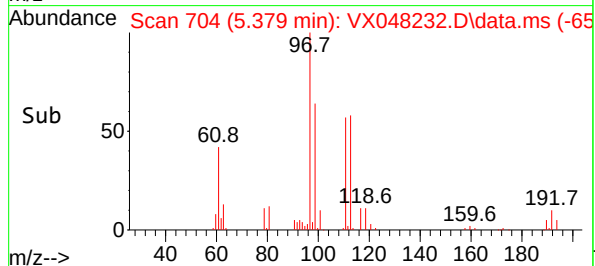
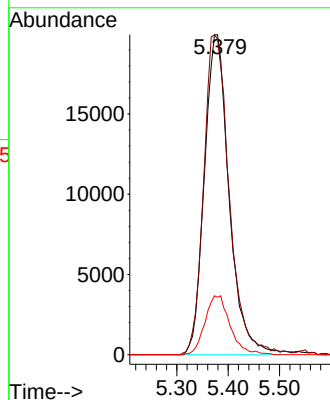
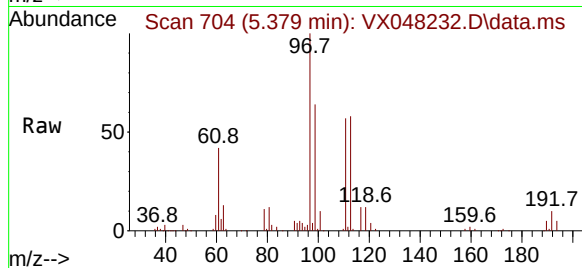
VSTDICCC050

Tgt Ion:	113	Resp:	6659
Ion	Ratio	Lower	Upper
113	100		
111	103.6	82.2	123.4
192	18.7	15.1	22.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#36

1,1-Dichloropropene

Concen: 44.323 ug/l

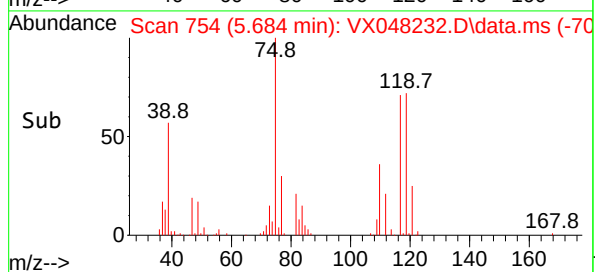
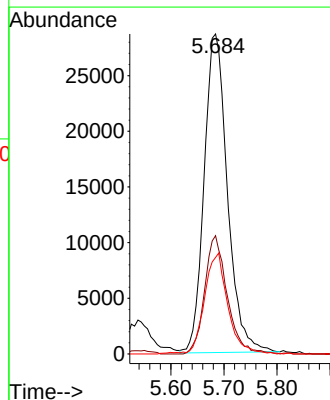
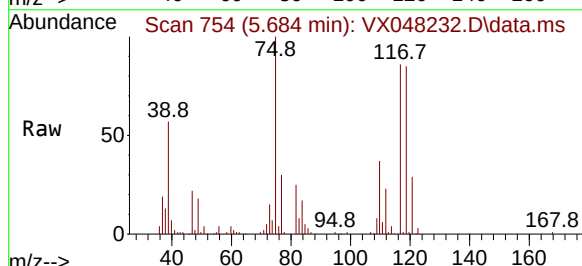
RT: 5.684 min Scan# 754

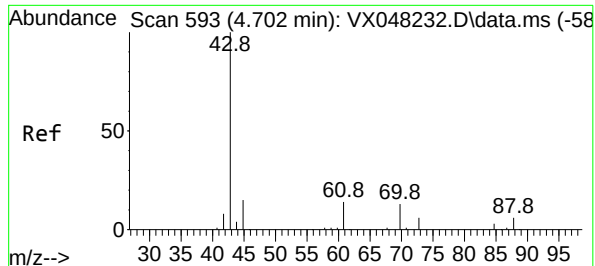
Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Tgt Ion:	75	Resp:	87493
Ion	Ratio	Lower	Upper
75	100		
110	35.9	17.7	53.1
77	31.7	24.3	36.5





#37

Ethyl Acetate

Concen: 47.073 ug/l

RT: 4.702 min Scan# 593

Delta R.T. 0.006 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

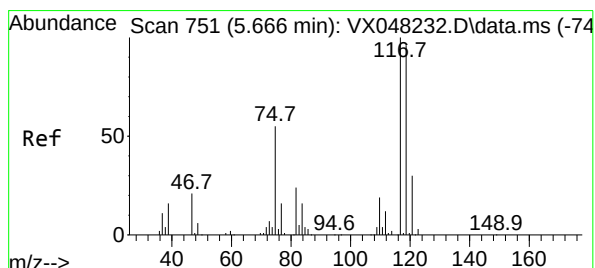
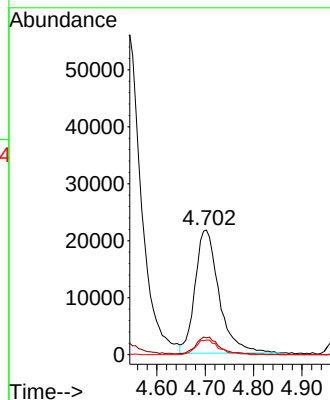
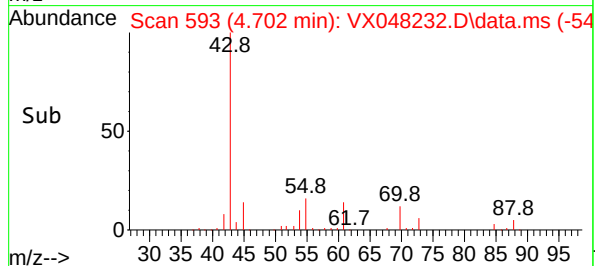
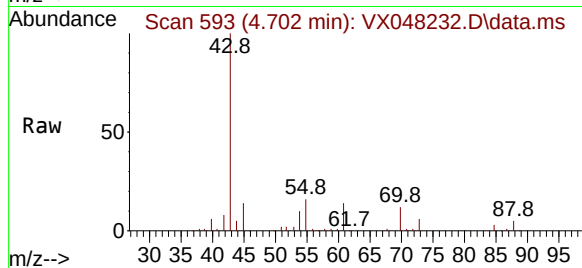
ClientSampleId :

VSTDICCC050

Tgt Ion:	43	Resp:	7426
Ion	Ratio	Lower	Upper
43	100		
61	14.0	10.6	15.8
70	11.6	7.8	11.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#38

Carbon Tetrachloride

Concen: 49.302 ug/l

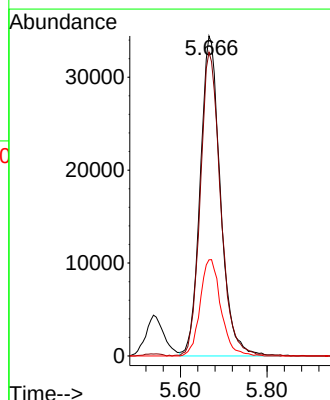
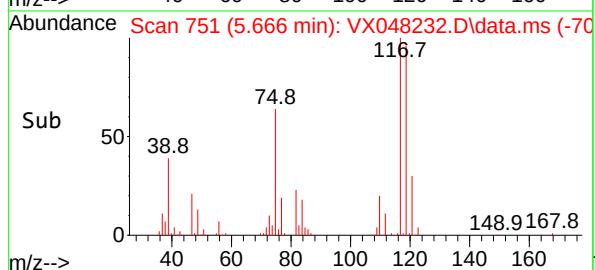
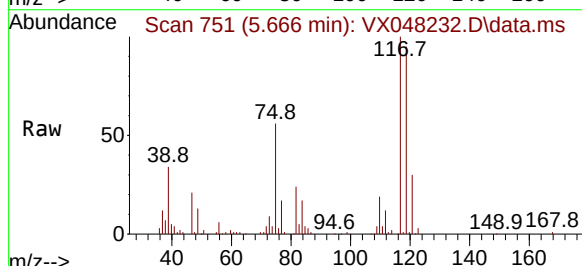
RT: 5.666 min Scan# 751

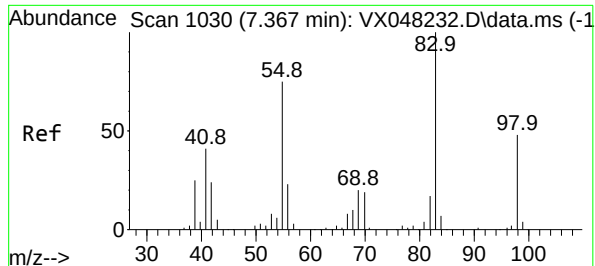
Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Tgt Ion:	117	Resp:	111708
Ion	Ratio	Lower	Upper
117	100		
119	94.8	77.2	115.8
121	30.1	24.8	37.2





#39

Methylcyclohexane

Concen: 49.008 ug/l

RT: 7.367 min Scan# 1030

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 10907

Ion Ratio Lower Upper

83 100

55 74.8 66.2 99.2

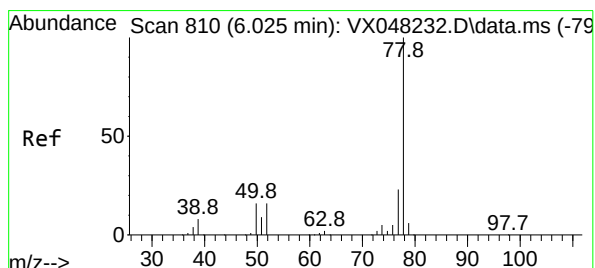
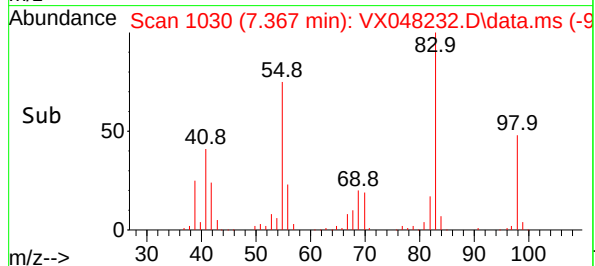
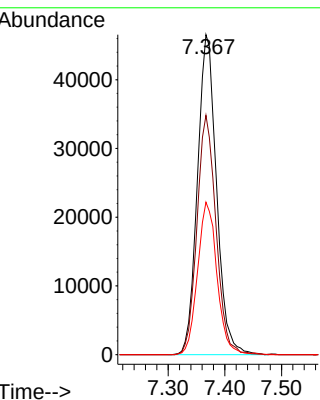
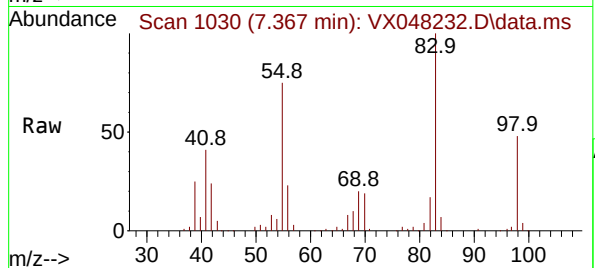
98 47.6 38.9 58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#40

Benzene

Concen: 44.825 ug/l

RT: 6.025 min Scan# 810

Delta R.T. 0.000 min

Lab File: VX048232.D

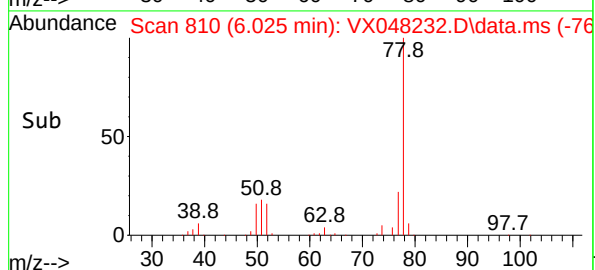
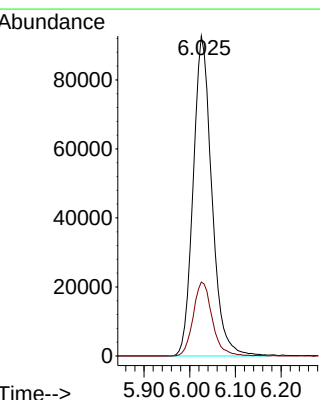
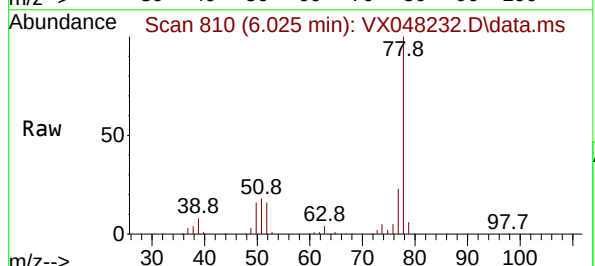
Acq: 20 Oct 2025 12:01

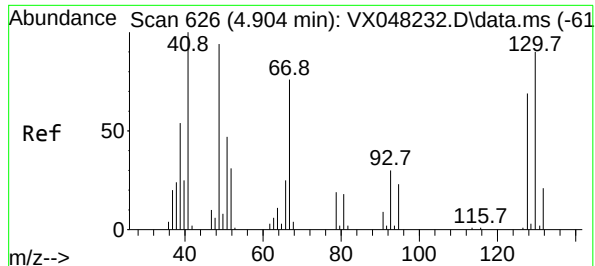
Tgt Ion: 78 Resp: 262745

Ion Ratio Lower Upper

78 100

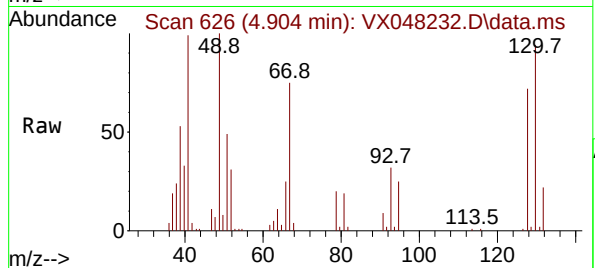
77 23.1 19.3 28.9





#41
Methacrylonitrile
Concen: 48.874 ug/l
RT: 4.904 min Scan# 612
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

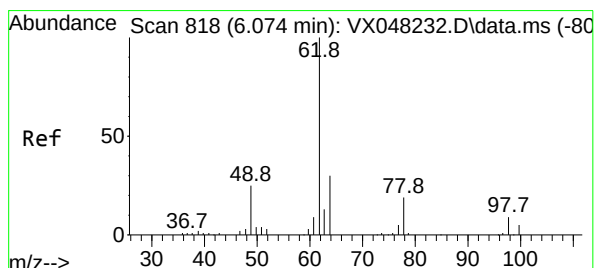
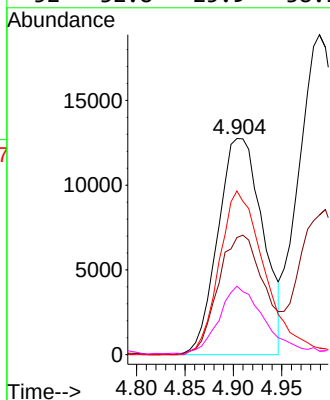
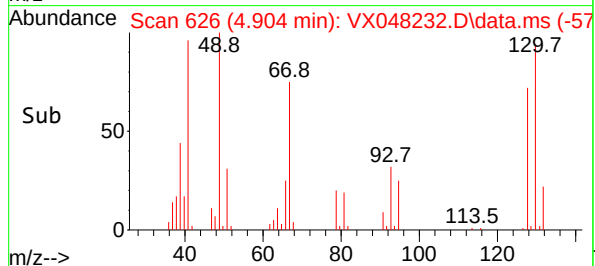
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 41 Resp: 4129
Ion Ratio Lower Upper
41 100
39 56.1 44.0 66.0
67 78.6 58.7 88.1
52 32.8 25.9 38.9

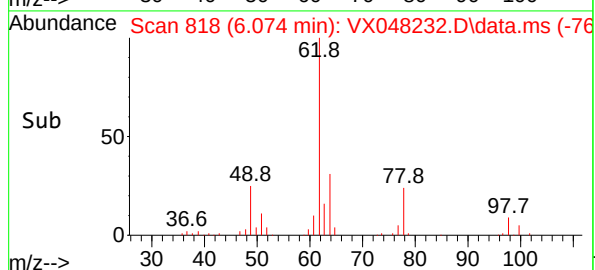
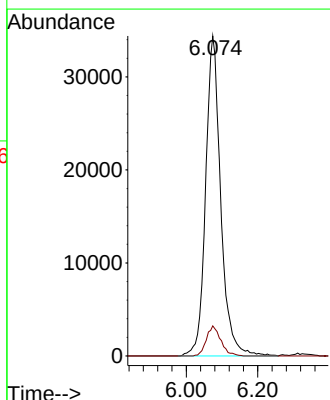
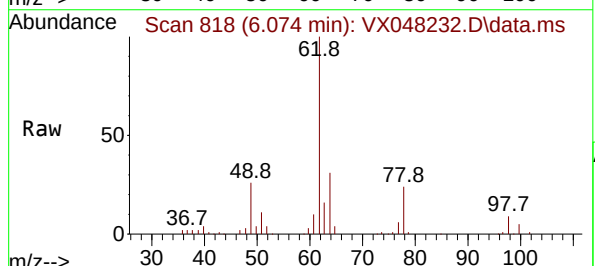
Manual Integrations
APPROVED

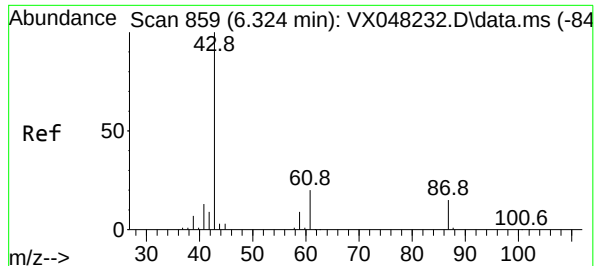
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#42
1,2-Dichloroethane
Concen: 48.064 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 62 Resp: 100937
Ion Ratio Lower Upper
62 100
98 9.0 0.0 17.2





#43

Isopropyl Acetate

Concen: 48.444 ug/l

RT: 6.324 min Scan# 859

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

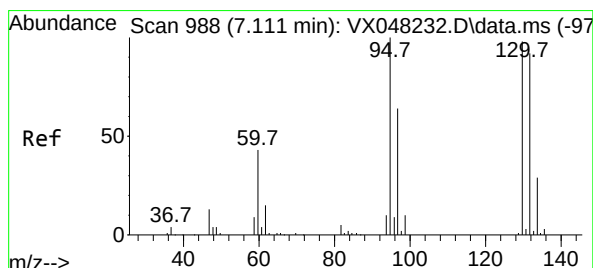
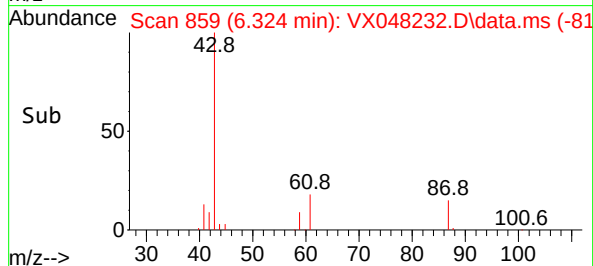
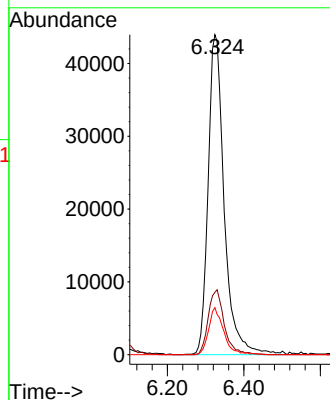
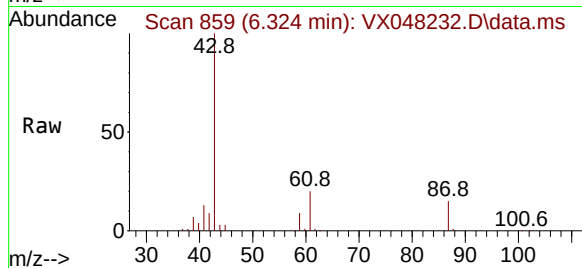
VSTDICCC050

Tgt Ion:	43	Resp:	128290
Ion Ratio	Lower	Upper	
43	100		
61	20.3	14.9	22.3
87	13.7	9.4	14.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#44

Trichloroethene

Concen: 47.597 ug/l

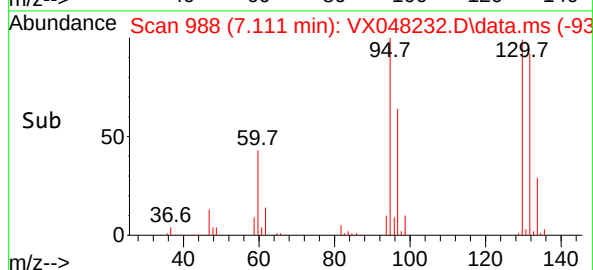
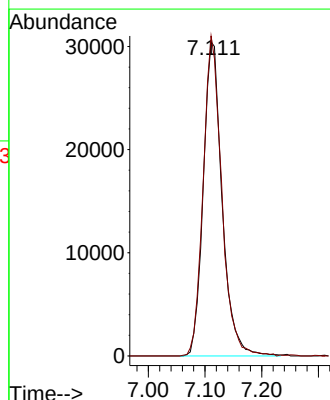
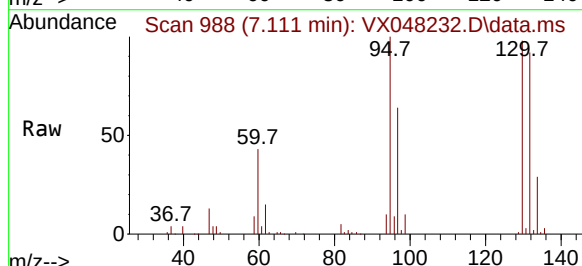
RT: 7.111 min Scan# 988

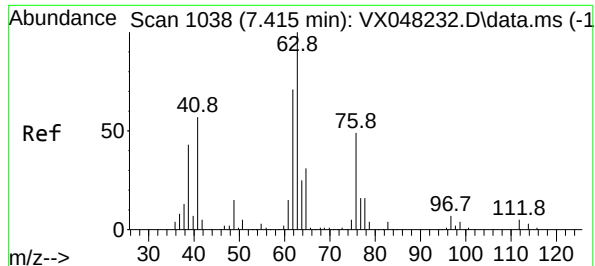
Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Tgt Ion:	130	Resp:	70313
Ion Ratio	Lower	Upper	
130	100		
95	101.9	0.0	200.6





#45

1,2-Dichloropropane

Concen: 43.746 ug/l

RT: 7.415 min Scan# 1038

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 6489

Ion Ratio Lower Upper

63 100

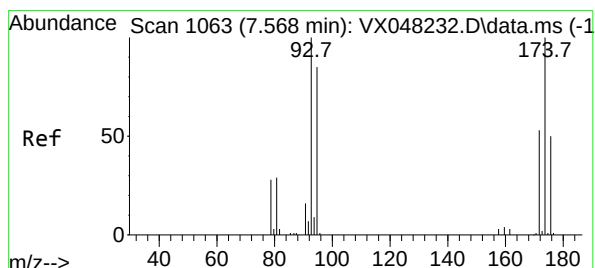
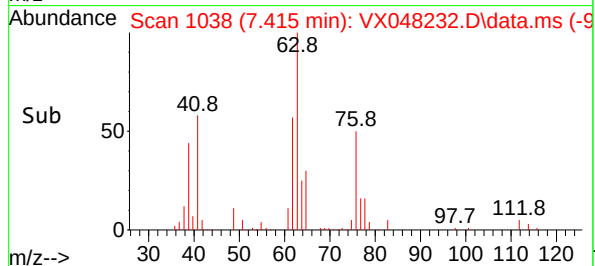
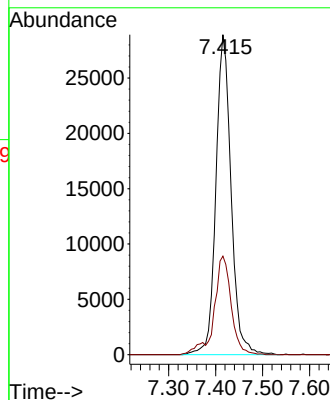
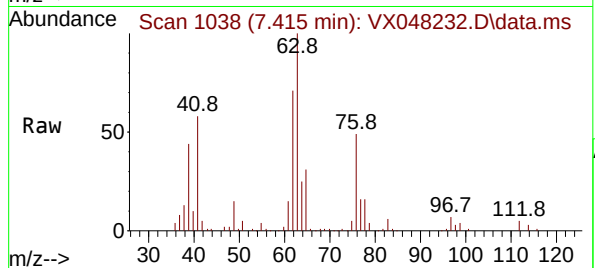
65 30.8 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#46

Dibromomethane

Concen: 46.726 ug/l

RT: 7.568 min Scan# 1063

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

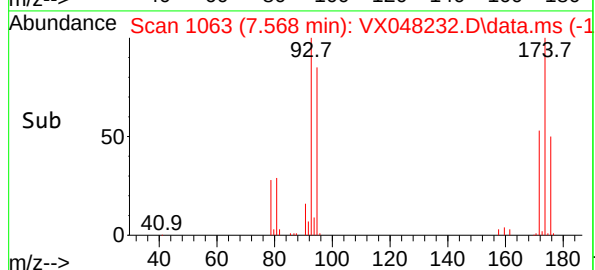
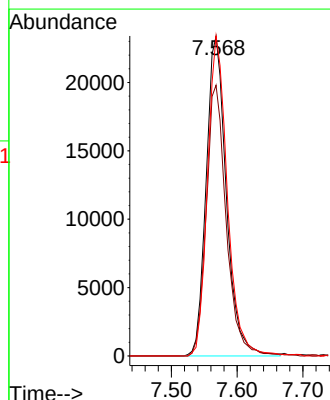
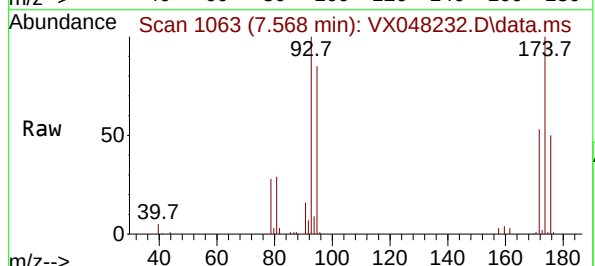
Tgt Ion: 93 Resp: 49874

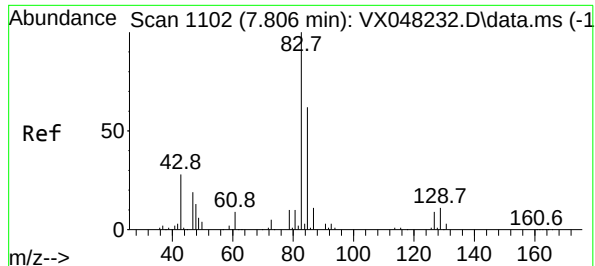
Ion Ratio Lower Upper

93 100

95 84.1 65.9 98.9

174 98.7 71.7 107.5





#47

Bromodichloromethane

Concen: 47.107 ug/l

RT: 7.806 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

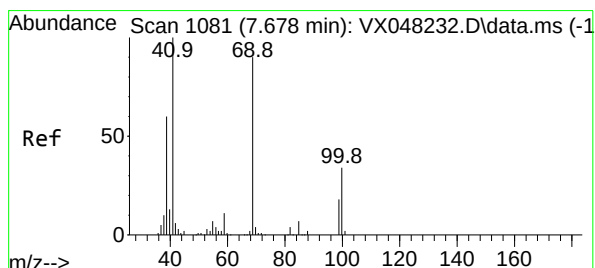
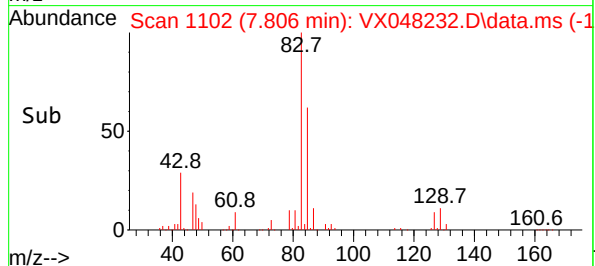
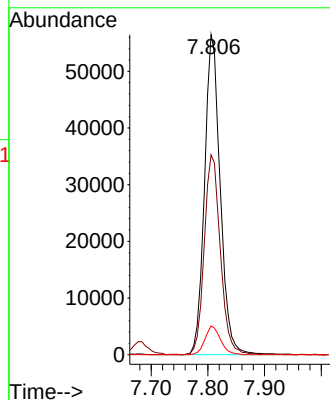
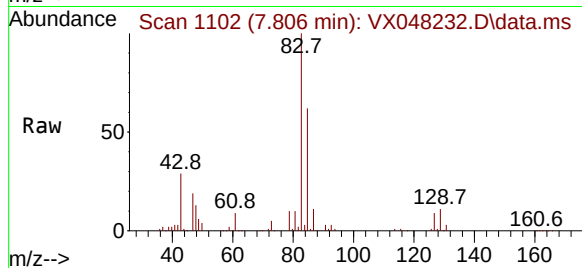
VSTDICCC050

Tgt Ion:	83	Resp:	10867
Ion	Ratio	Lower	Upper
83	100		
85	62.4	52.2	78.4
127	9.0	7.3	10.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#48

Methyl methacrylate

Concen: 47.990 ug/l

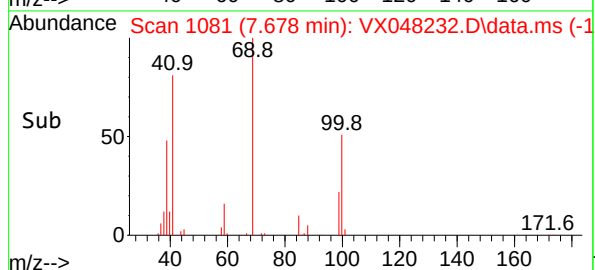
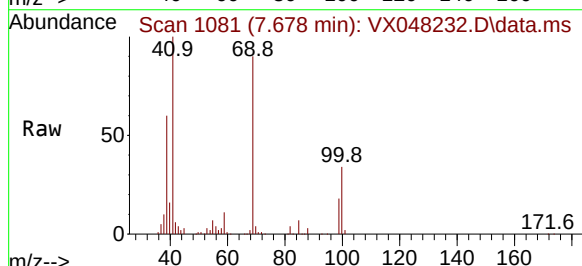
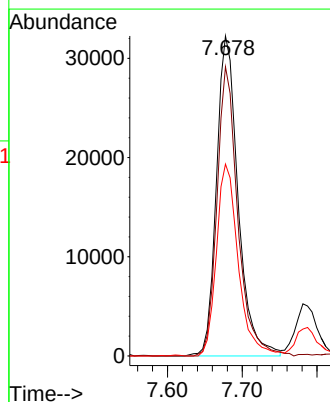
RT: 7.678 min Scan# 1081

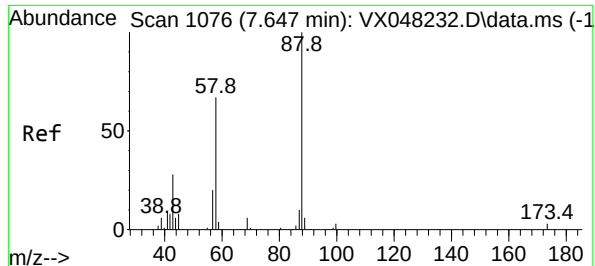
Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Tgt Ion:	41	Resp:	65057
Ion	Ratio	Lower	Upper
41	100		
69	86.8	63.4	95.0
39	60.5	47.1	70.7





#49

1,4-Dioxane

Concen: 1467.288 ug/l

RT: 7.647 min Scan# 1076

Delta R.T. 0.006 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

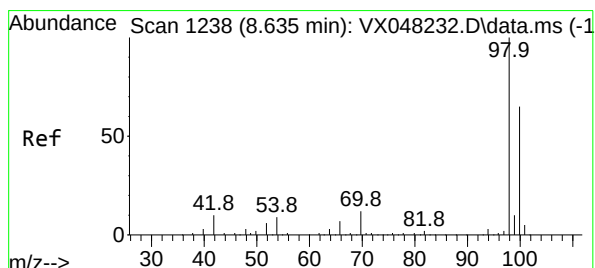
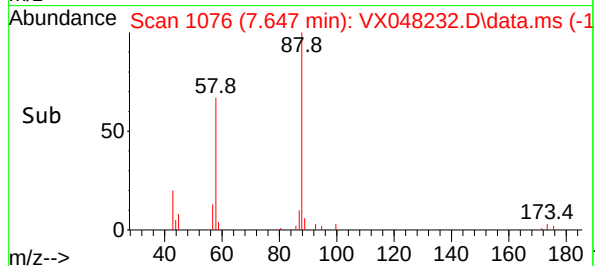
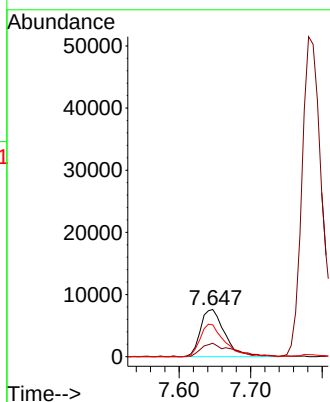
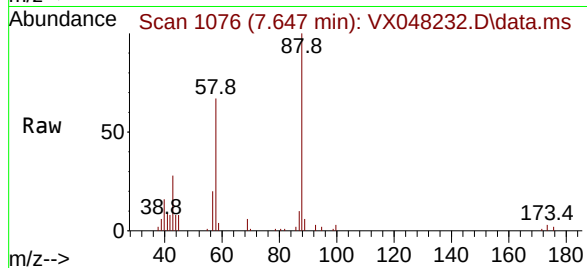
VSTDICCC050

Tgt Ion:	88	Resp:	1790
Ion	Ratio	Lower	Upper
88	100		
43	37.1	35.0	52.4
58	69.5	61.9	92.9

Manual Integrations
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Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#50

Toluene-d8

Concen: 47.402 ug/l

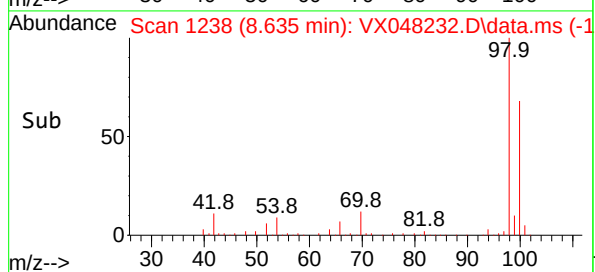
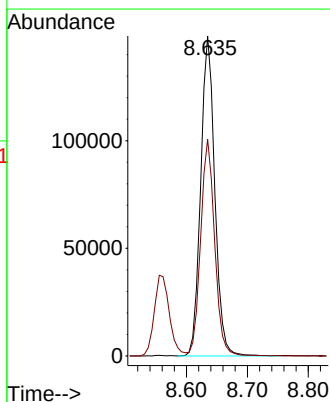
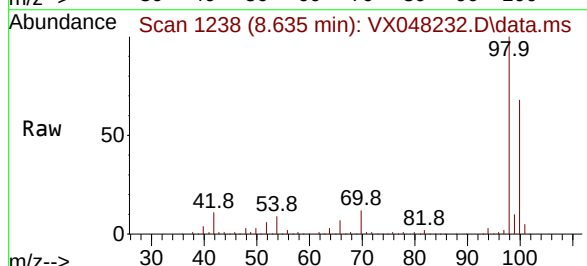
RT: 8.635 min Scan# 1238

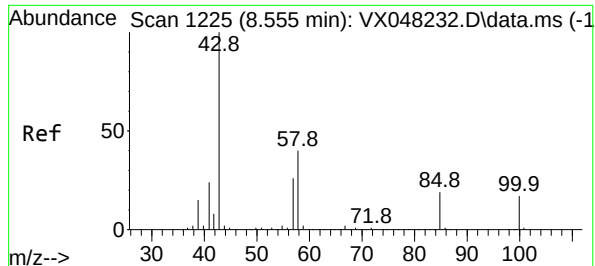
Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Tgt Ion:	98	Resp:	239295
Ion	Ratio	Lower	Upper
98	100		
100	67.2	53.0	79.4





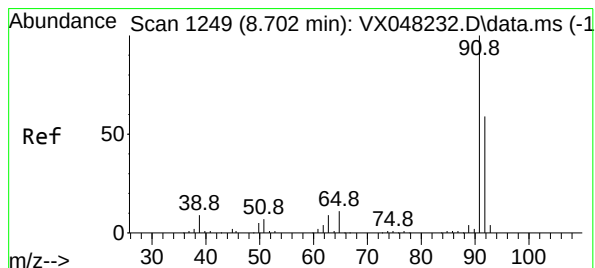
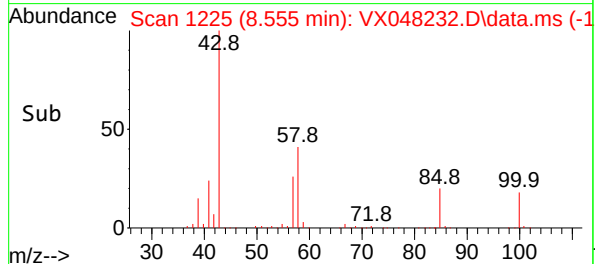
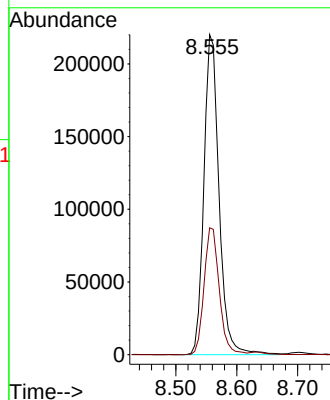
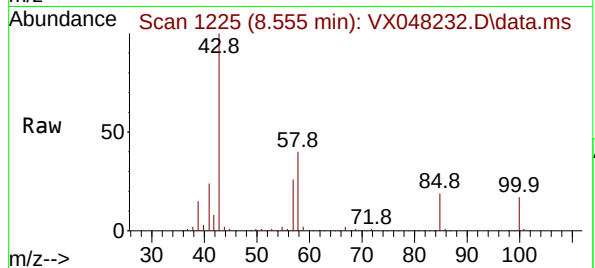
#51
4-Methyl-2-Pentanone
Concen: 258.320 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 38066
Ion Ratio Lower Upper
43 100
58 39.8 29.5 44.3

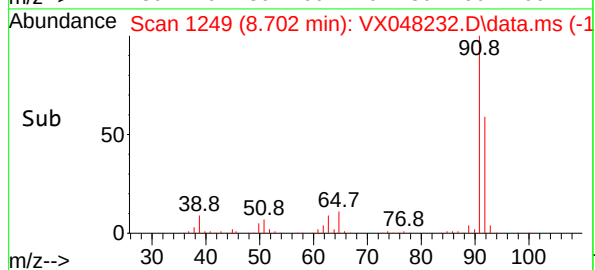
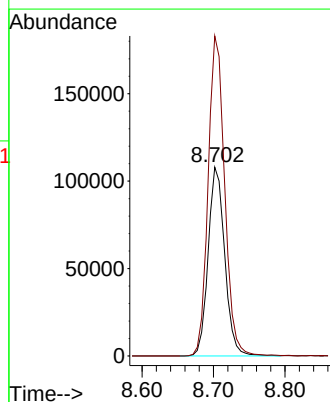
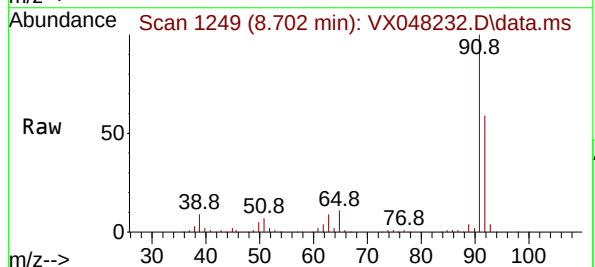
Manual Integrations
APPROVED

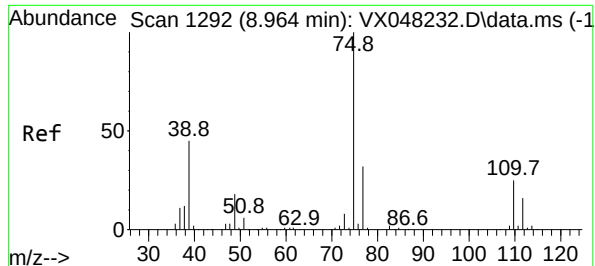
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#52
Toluene
Concen: 49.373 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 92 Resp: 173942
Ion Ratio Lower Upper
92 100
91 169.6 136.1 204.1





#53

t-1,3-Dichloropropene

Concen: 50.880 ug/l

RT: 8.964 min Scan# 1192

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 75 Resp: 109960

Ion Ratio Lower Upper

75 100

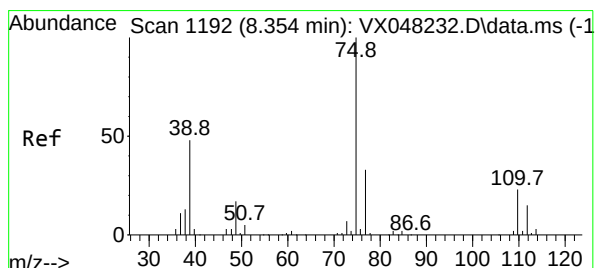
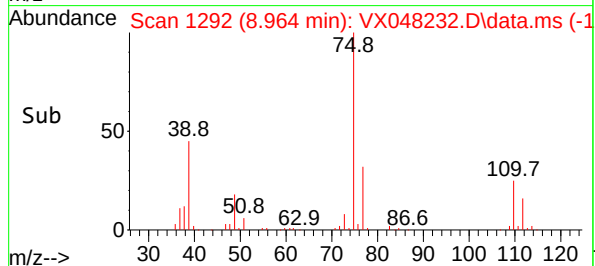
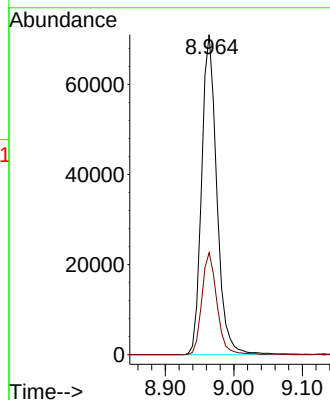
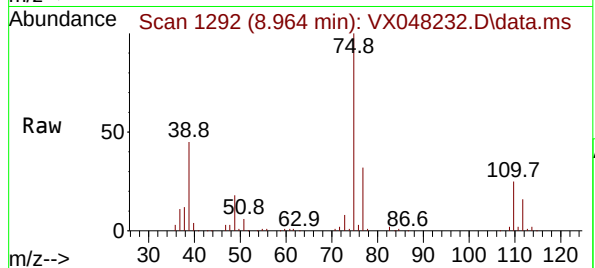
77 31.9 25.0 37.6

Manual Integrations

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Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#54

cis-1,3-Dichloropropene

Concen: 49.046 ug/l

RT: 8.354 min Scan# 1192

Delta R.T. 0.006 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

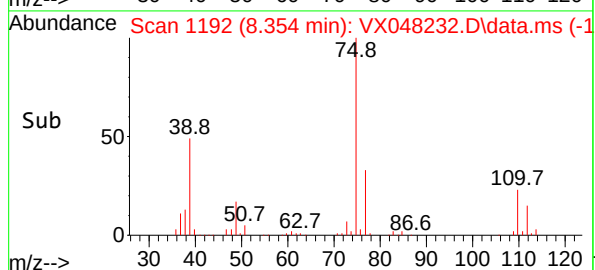
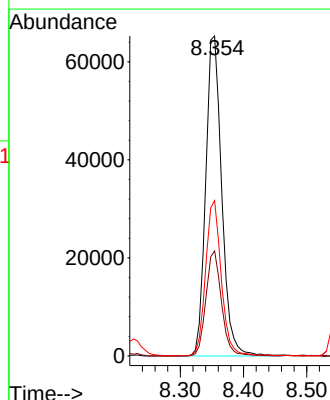
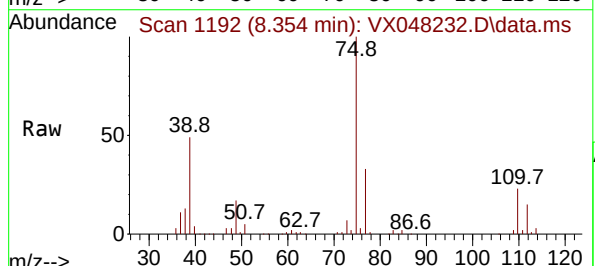
Tgt Ion: 75 Resp: 115534

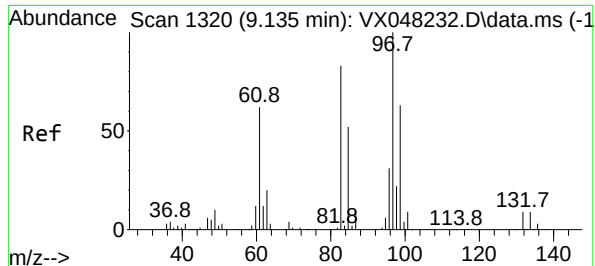
Ion Ratio Lower Upper

75 100

77 32.8 24.9 37.3

39 46.7 42.6 64.0





#55

1,1,2-Trichloroethane

Concen: 49.248 ug/l

RT: 9.135 min Scan# 1320

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 6473

Ion Ratio Lower Upper

97 100

83 83.0 70.6 105.8

85 52.0 45.0 67.6

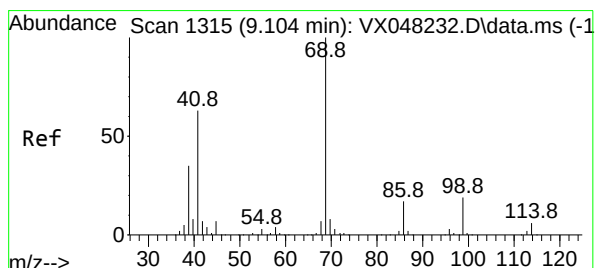
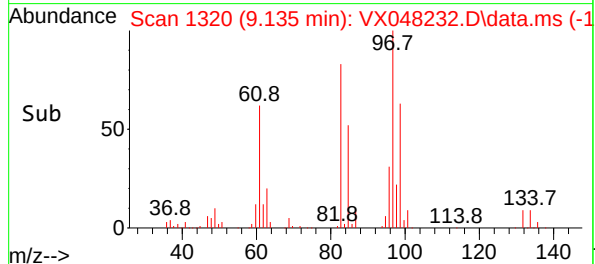
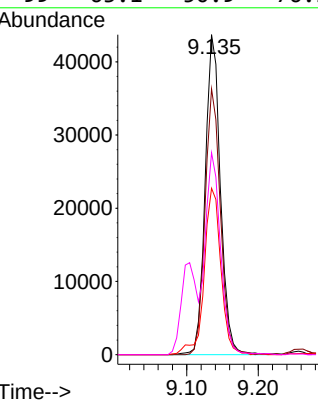
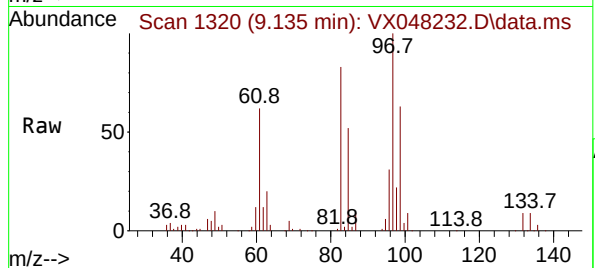
99 63.1 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#56

Ethyl methacrylate

Concen: 55.290 ug/l

RT: 9.104 min Scan# 1315

Delta R.T. 0.006 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

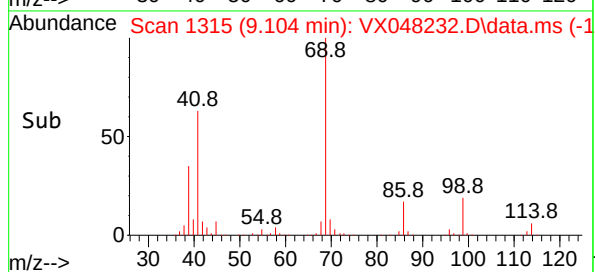
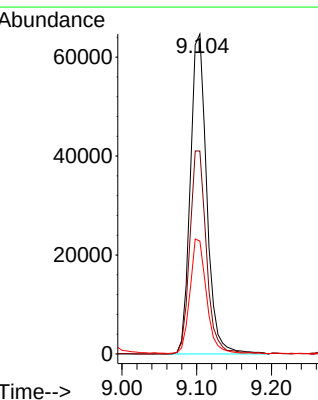
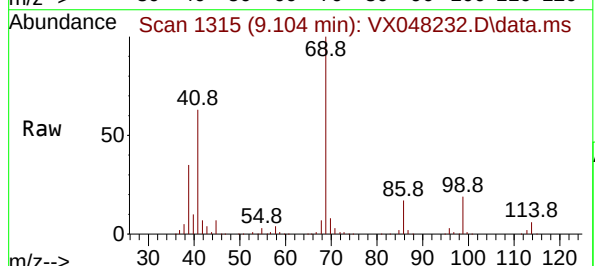
Tgt Ion: 69 Resp: 98851

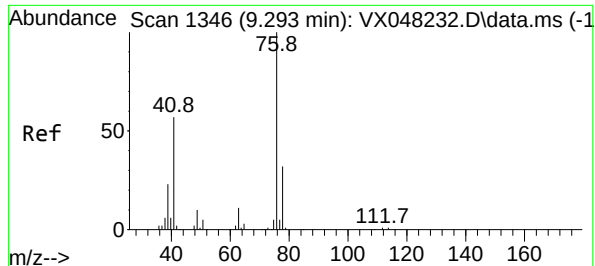
Ion Ratio Lower Upper

69 100

41 64.4 56.0 84.0

39 35.9 31.6 47.4





#57

1,3-Dichloropropane

Concen: 48.206 ug/l

RT: 9.293 min Scan# 110709

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 110709

Ion Ratio Lower Upper

76 100

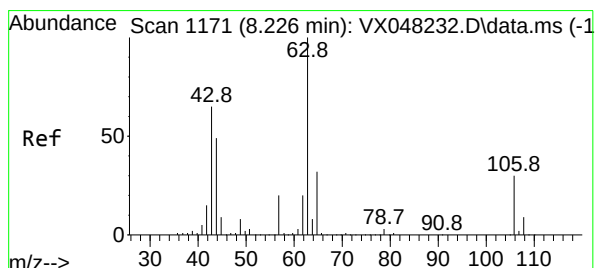
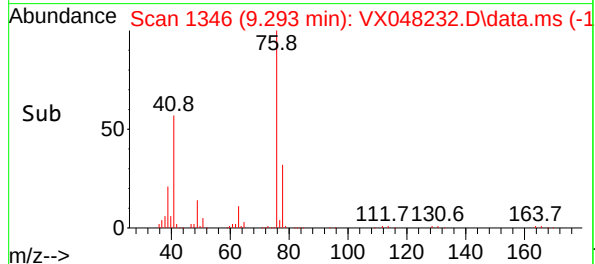
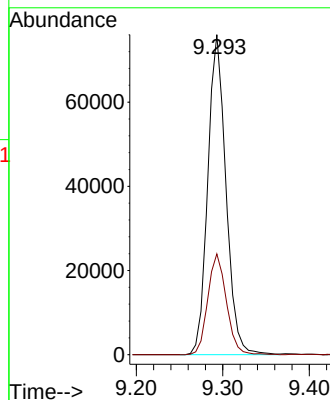
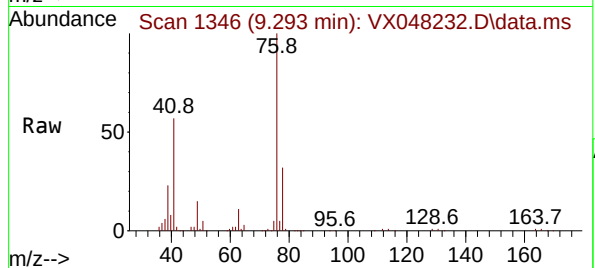
78 32.2 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#58

2-Chloroethyl Vinyl ether

Concen: 285.817 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX048232.D

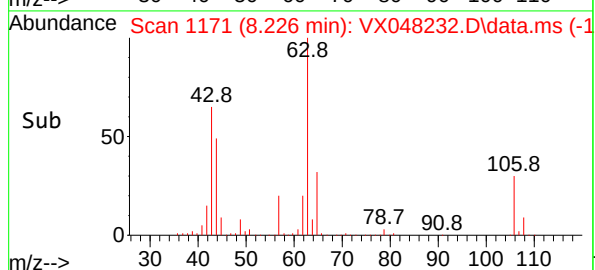
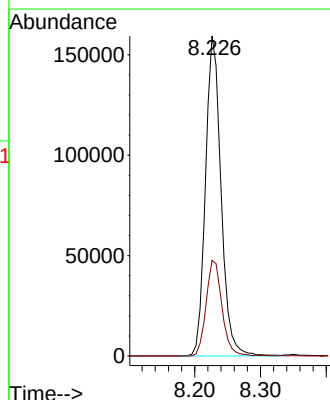
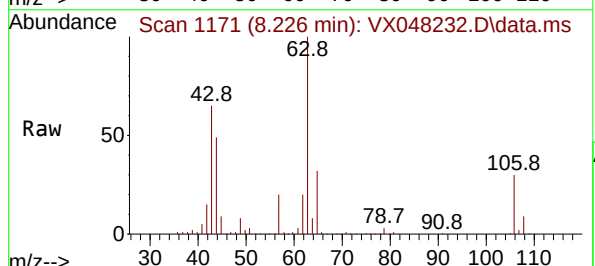
Acq: 20 Oct 2025 12:01

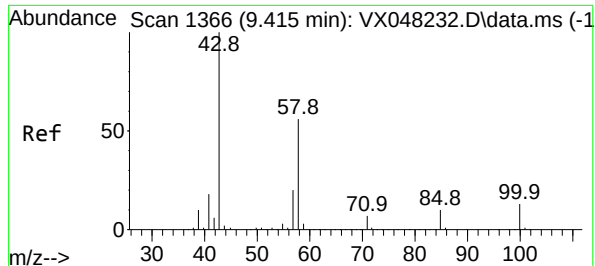
Tgt Ion: 63 Resp: 262387

Ion Ratio Lower Upper

63 100

106 30.6 22.2 33.2





#59

2-Hexanone

Concen: 261.113 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 26914

Ion Ratio Lower Upper

43 100

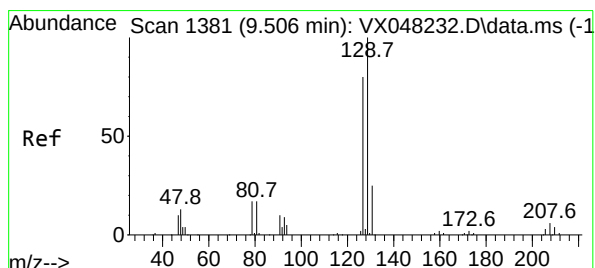
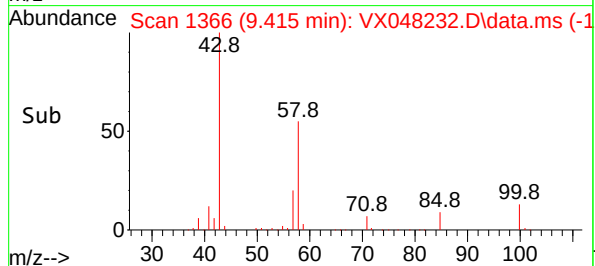
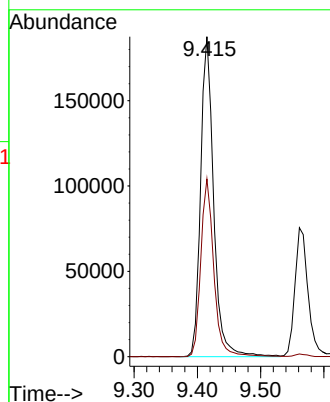
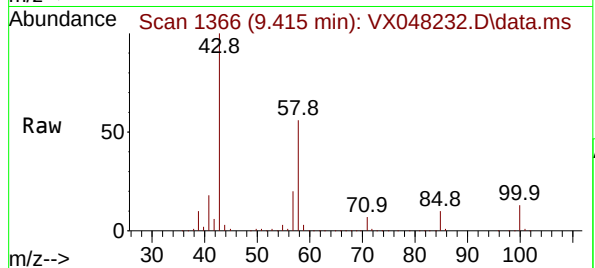
58 55.6 26.3 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#60

Dibromochloromethane

Concen: 52.123 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VX048232.D

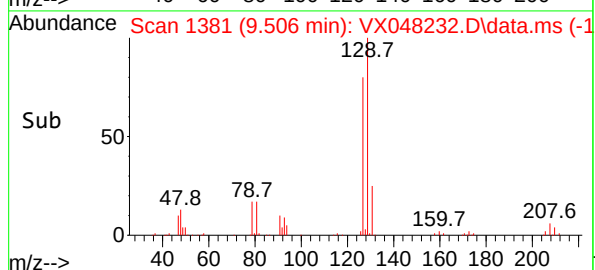
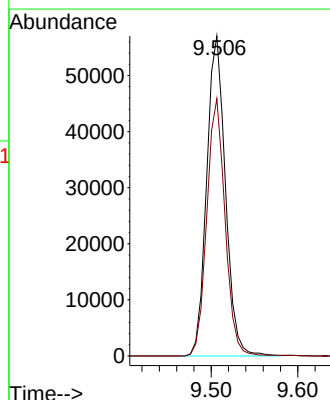
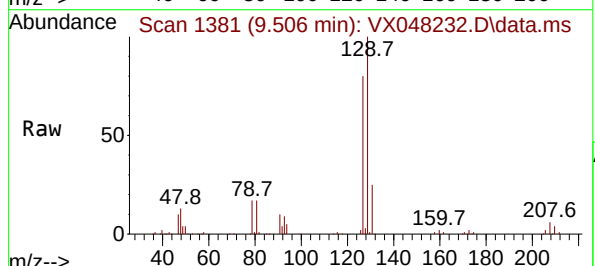
Acq: 20 Oct 2025 12:01

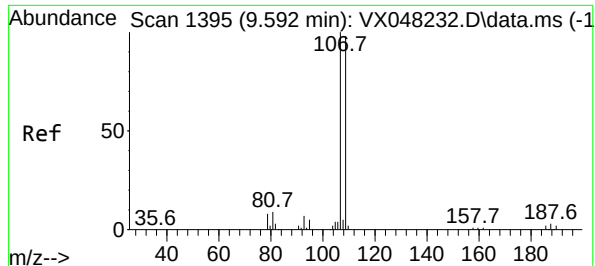
Tgt Ion:129 Resp: 85760

Ion Ratio Lower Upper

129 100

127 78.4 38.6 115.7





#61

1,2-Dibromoethane

Concen: 51.208 ug/l

RT: 9.592 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:107 Resp: 6902

Ion Ratio Lower Upper

107 100

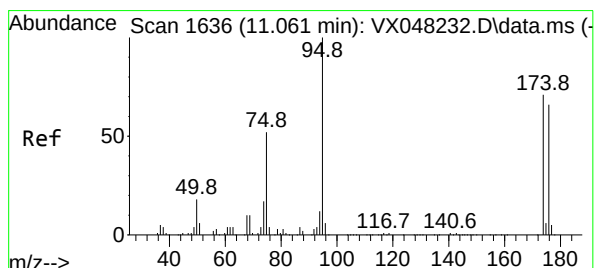
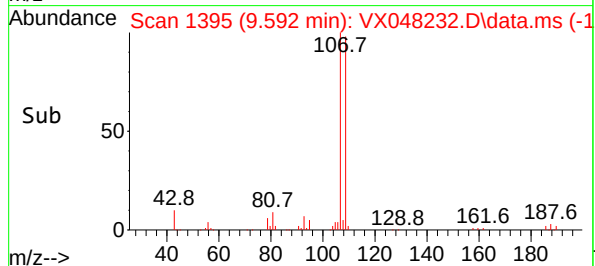
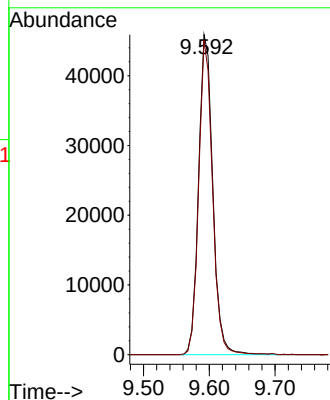
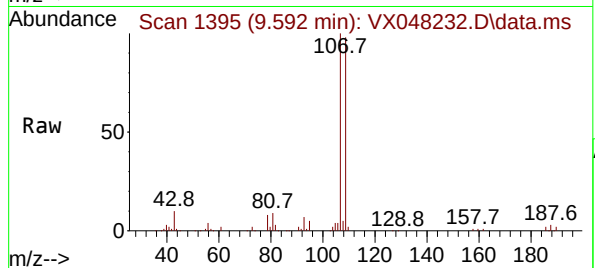
109 95.5 77.0 115.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#62

4-Bromofluorobenzene

Concen: 48.719 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

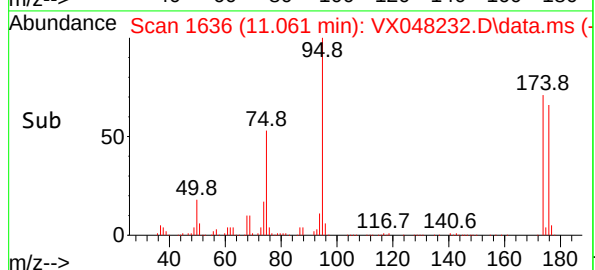
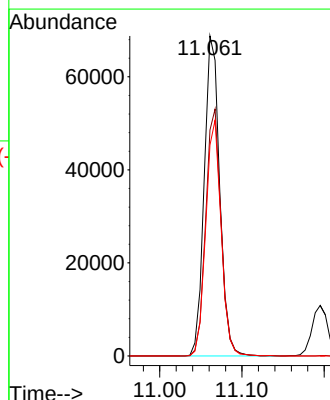
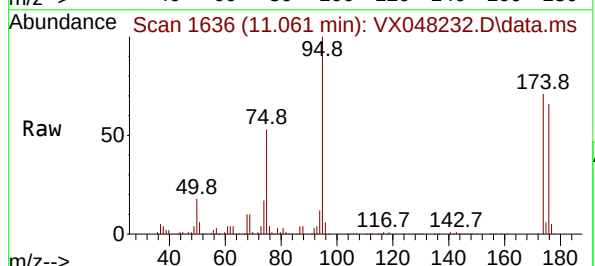
Tgt Ion: 95 Resp: 89579

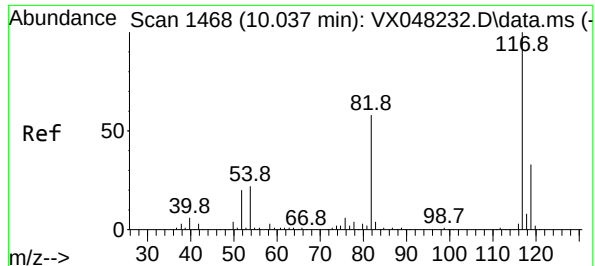
Ion Ratio Lower Upper

95 100

174 77.3 0.0 147.8

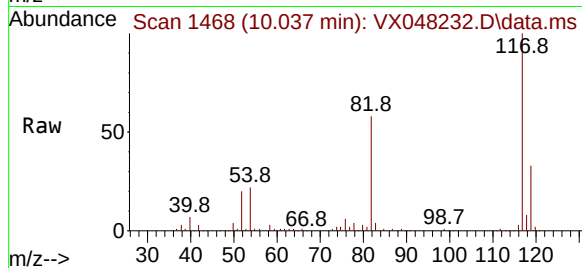
176 73.3 0.0 142.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

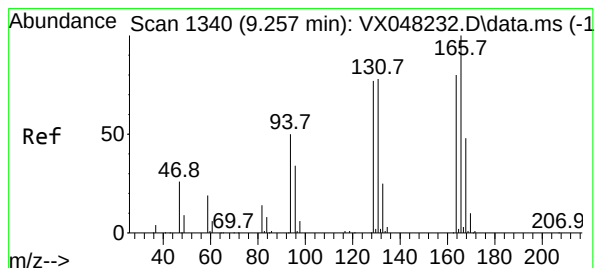
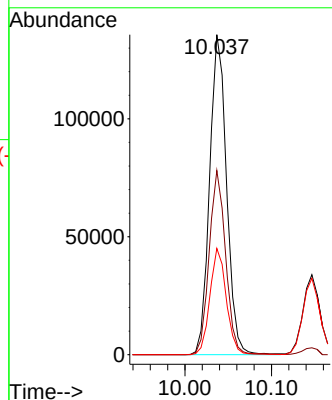
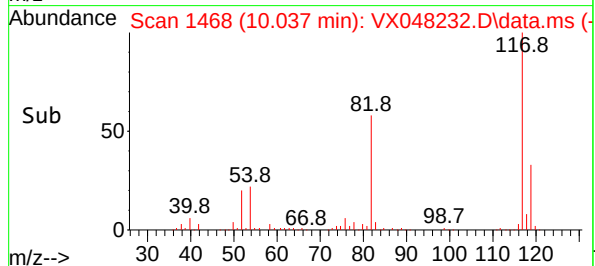
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:117 Resp: 184494
Ion Ratio Lower Upper
117 100
82 57.6 46.5 69.7
119 33.2 25.9 38.9

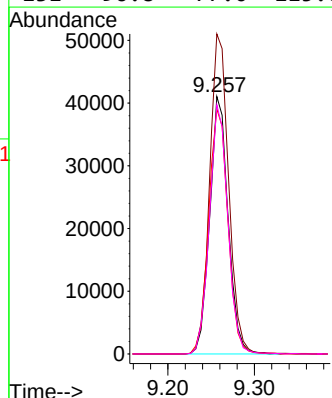
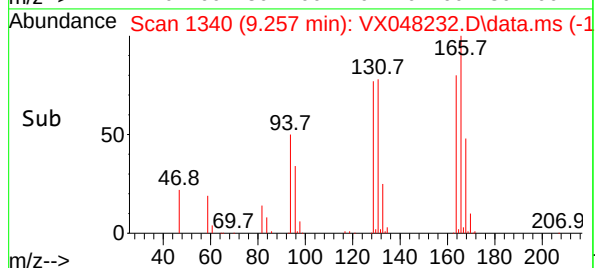
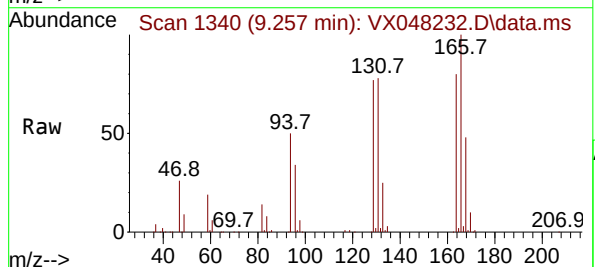
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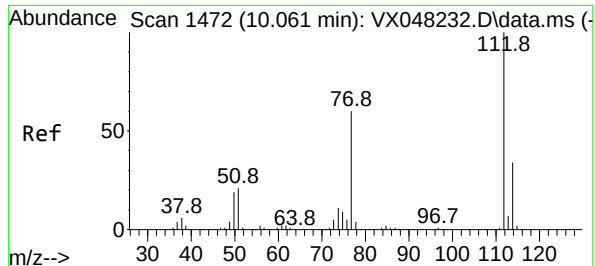
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#64
Tetrachloroethene
Concen: 46.776 ug/l
RT: 9.257 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:164 Resp: 60510
Ion Ratio Lower Upper
164 100
166 124.3 104.5 156.7
129 95.1 81.8 122.6
131 96.8 77.0 115.6





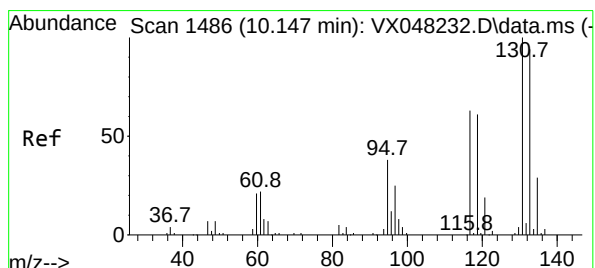
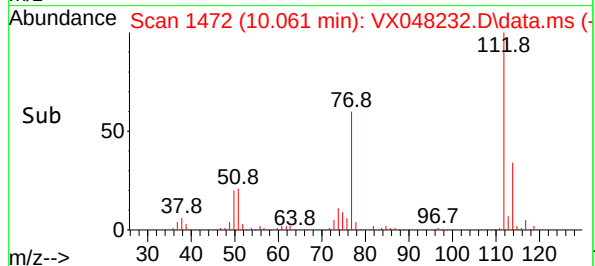
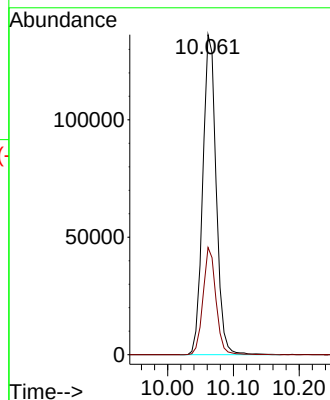
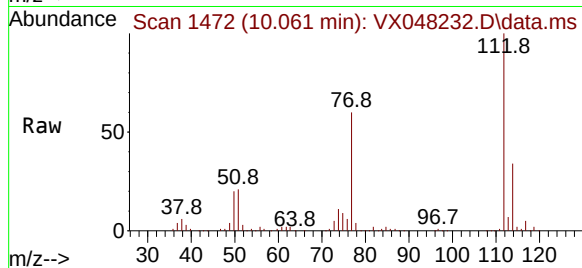
#65
Chlorobenzene
Concen: 47.805 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 19284
Ion Ratio Lower Upper
112 100
114 33.5 26.2 39.2

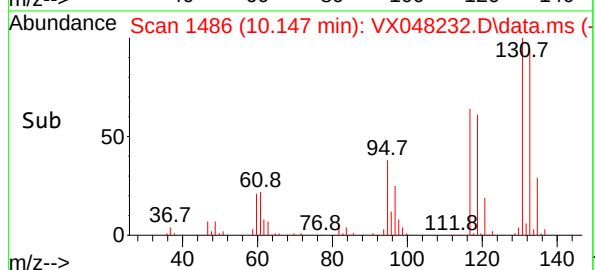
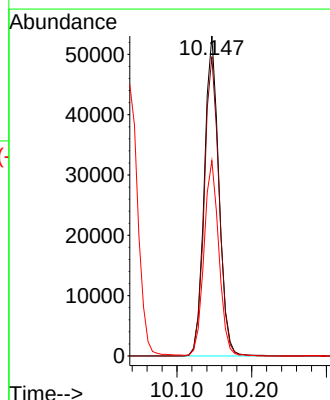
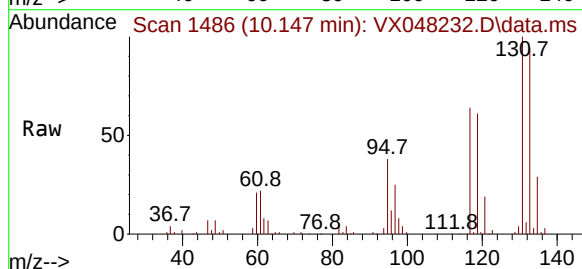
Manual Integrations
APPROVED

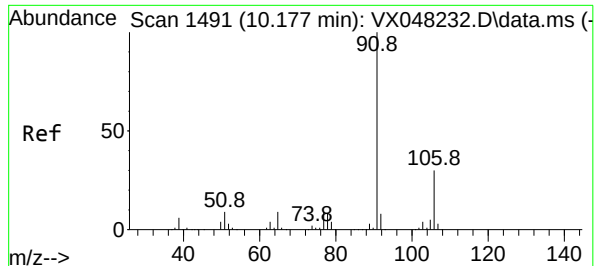
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 49.482 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion:131 Resp: 71930
Ion Ratio Lower Upper
131 100
133 94.7 47.6 142.8
119 62.0 32.5 97.5





#67

Ethyl Benzene

Concen: 48.680 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 336660

Ion Ratio Lower Upper

91 100

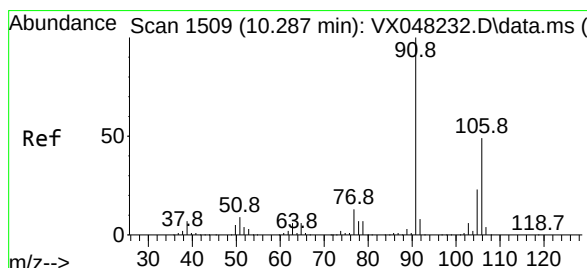
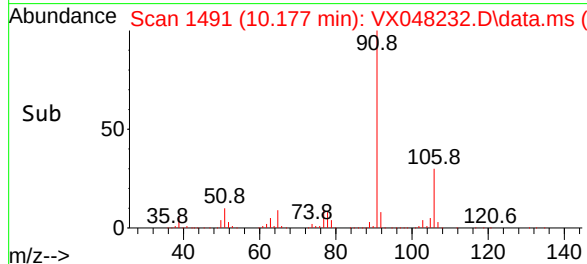
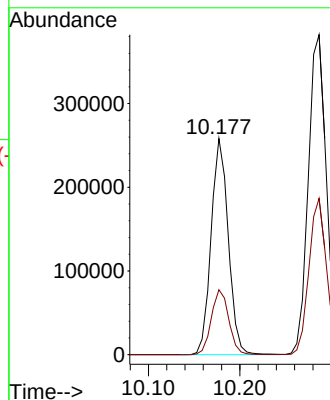
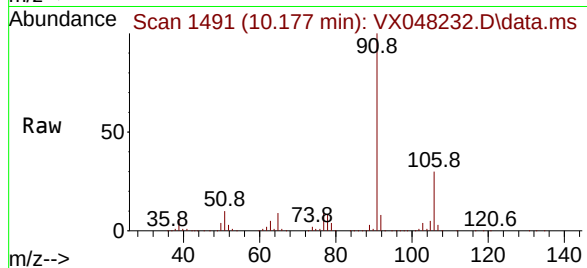
106 30.1 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#68

m/p-Xylenes

Concen: 98.455 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. 0.000 min

Lab File: VX048232.D

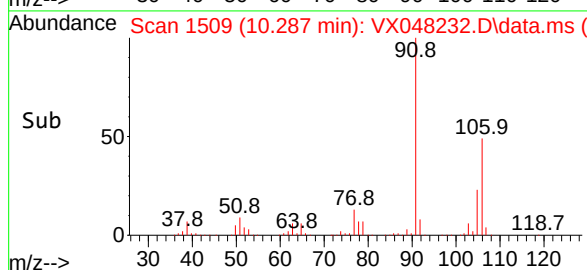
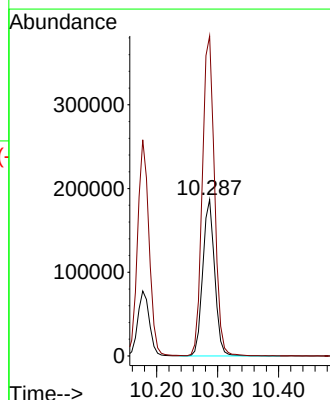
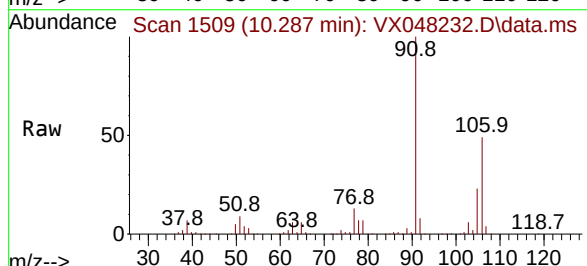
Acq: 20 Oct 2025 12:01

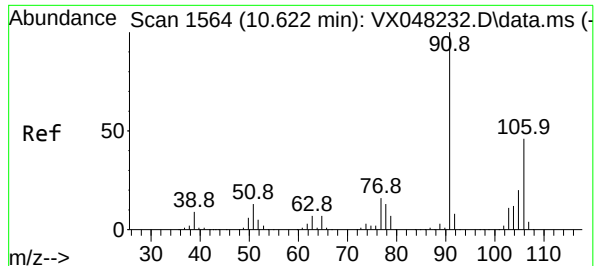
Tgt Ion:106 Resp: 253662

Ion Ratio Lower Upper

106 100

91 209.1 167.9 251.9





#69

o-Xylene

Concen: 50.542 ug/l

RT: 10.622 min Scan# 1564

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:106 Resp: 12258

Ion Ratio Lower Upper

106 100

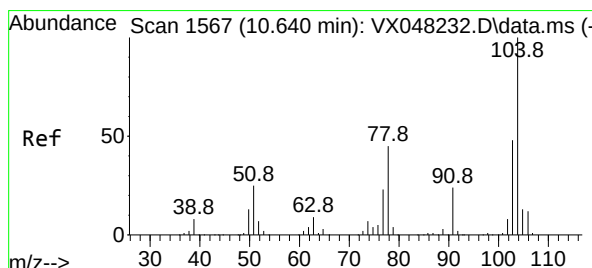
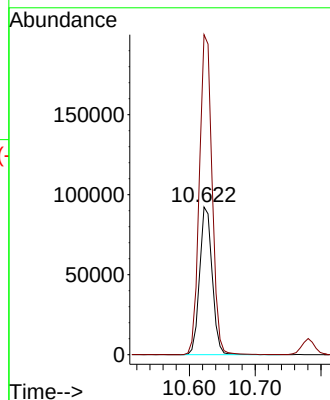
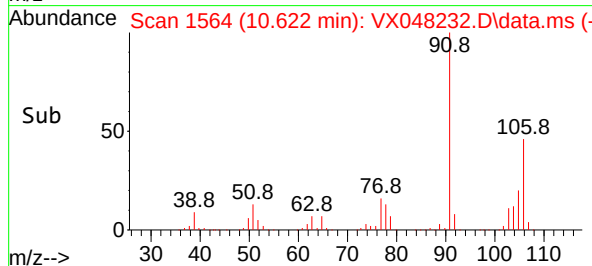
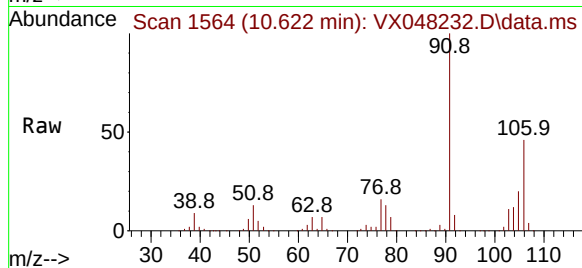
91 219.2 111.3 333.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#70

Styrene

Concen: 50.508 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

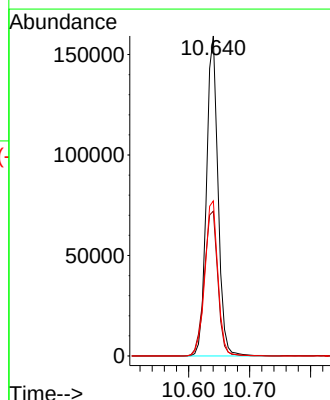
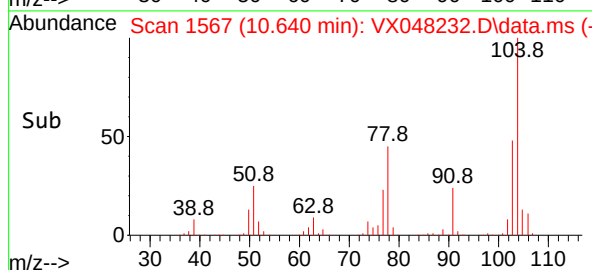
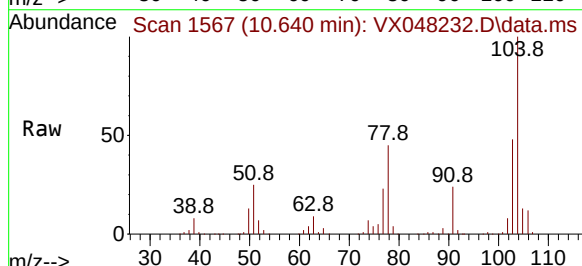
Tgt Ion:104 Resp: 210861

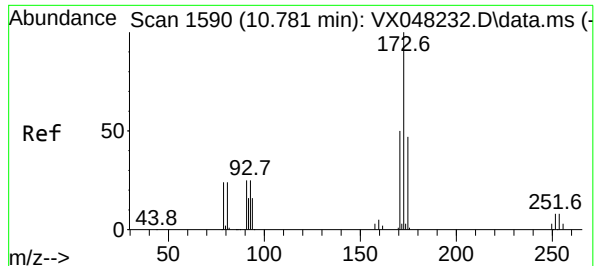
Ion Ratio Lower Upper

104 100

78 52.8 42.2 63.4

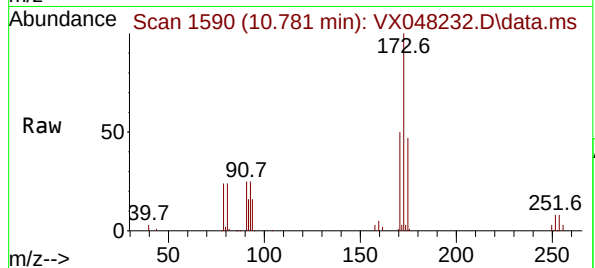
103 54.4 43.0 64.4





#71
Bromoform
Concen: 53.279 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

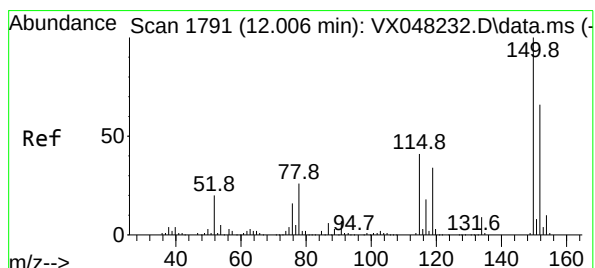
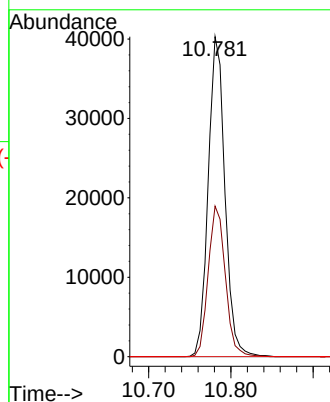
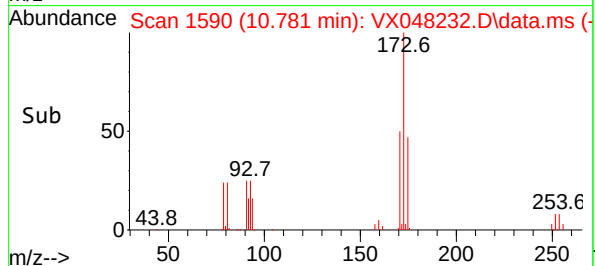
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



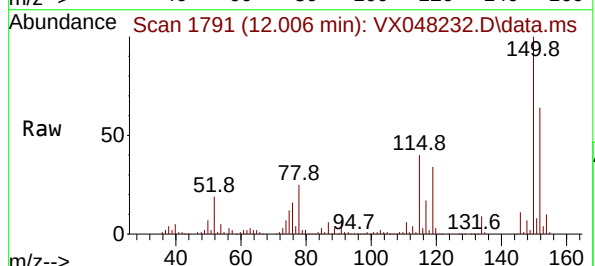
Tgt Ion:173 Resp: 56874
Ion Ratio Lower Upper
173 100
175 48.2 24.0 72.0
254 0.0 0.0 0.0

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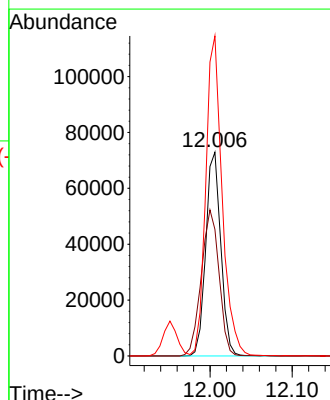
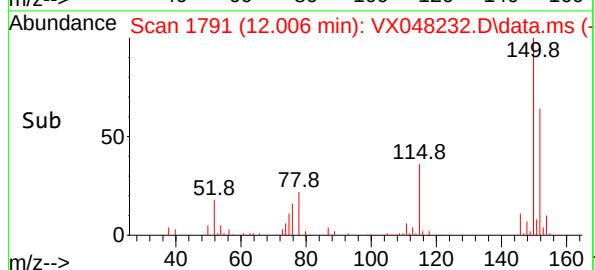
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

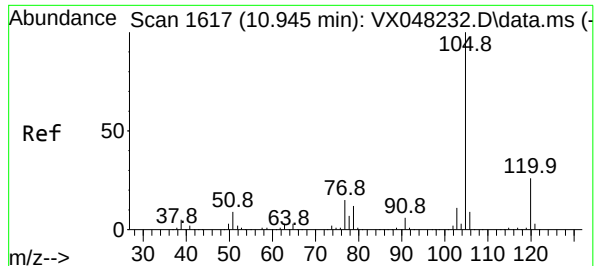


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01



Tgt Ion:152 Resp: 92693
Ion Ratio Lower Upper
152 100
115 84.9 43.1 129.4
150 171.1 0.0 353.0





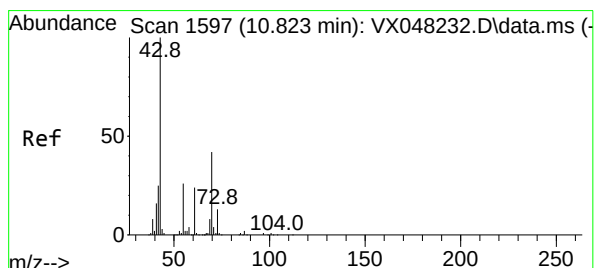
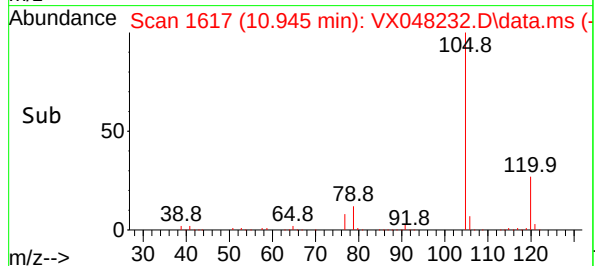
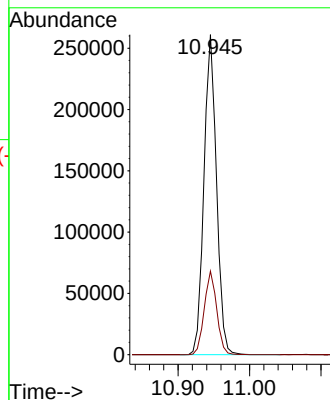
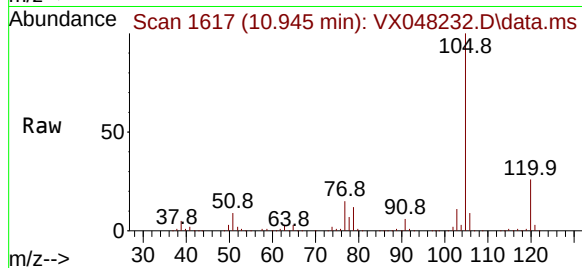
#73
Isopropylbenzene
Concen: 49.321 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 317974
Ion Ratio Lower Upper
105 100
120 26.0 13.0 38.9

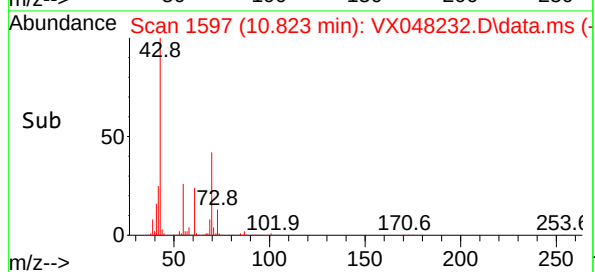
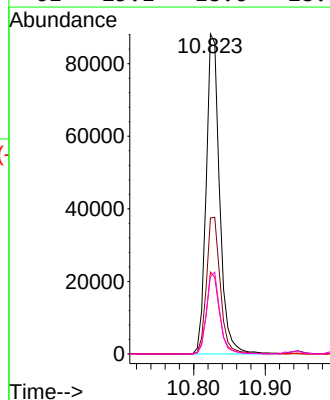
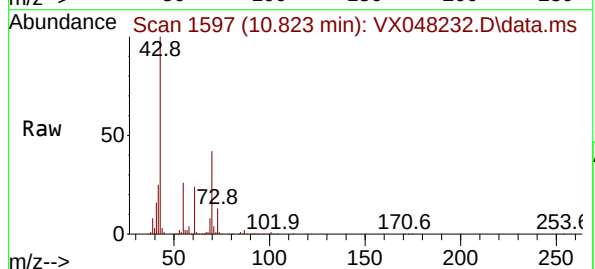
Manual Integrations
APPROVED

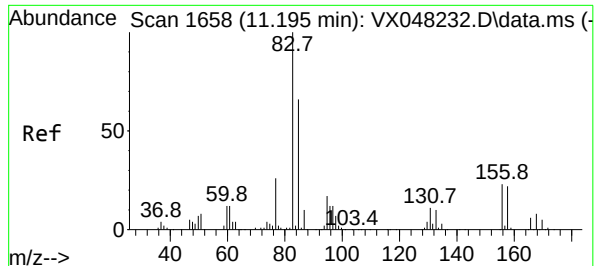
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#74
N-ethyl acetate
Concen: 48.098 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 43 Resp: 115683
Ion Ratio Lower Upper
43 100
70 43.8 32.2 48.2
55 25.1 19.1 28.7
61 25.1 18.6 28.0





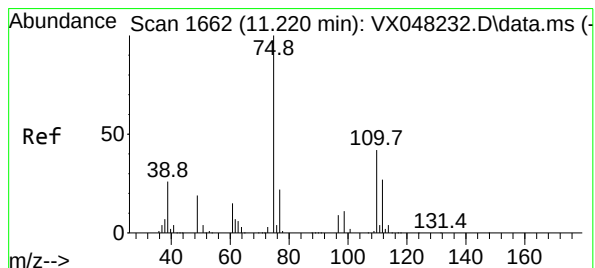
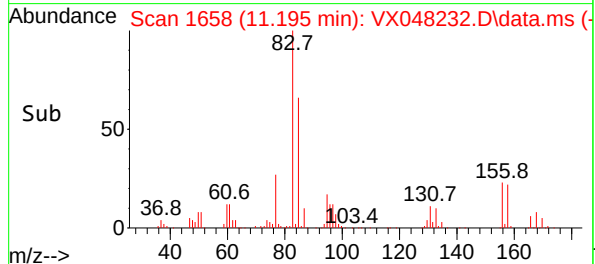
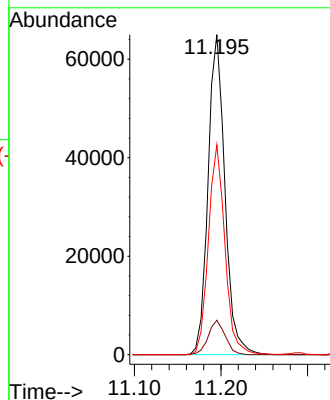
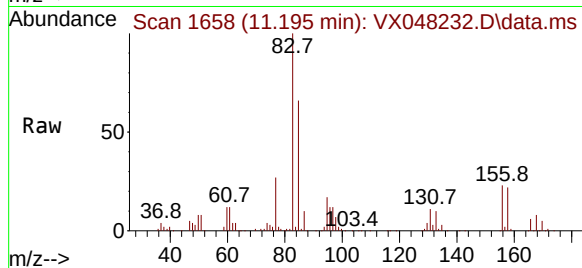
#75
1,1,2,2-Tetrachloroethane
Concen: 48.020 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 8770
Ion Ratio Lower Upper
83 100
131 10.9 4.8 14.4
85 64.5 31.9 95.7

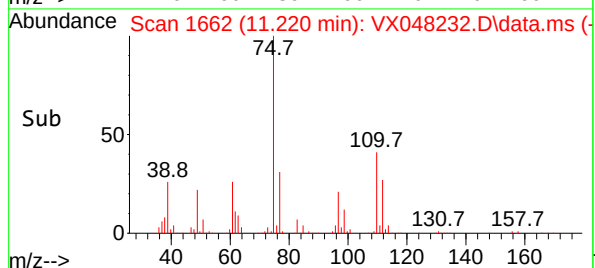
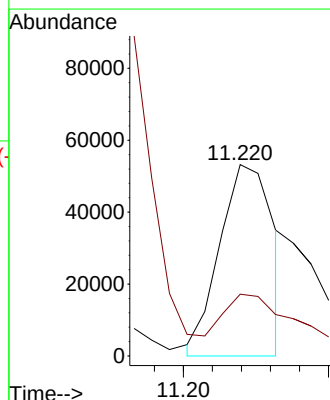
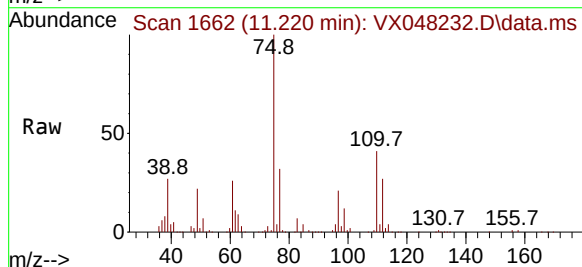
Manual Integrations
APPROVED

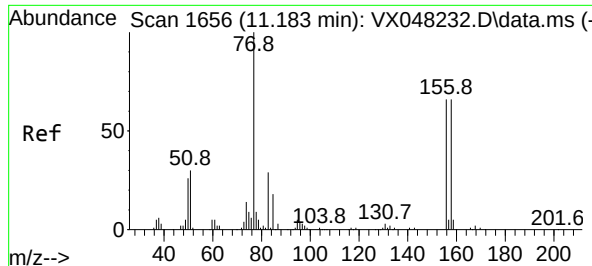
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#76
1,2,3-Trichloropropane
Concen: 48.115 ug/l m
RT: 11.220 min Scan# 1662
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

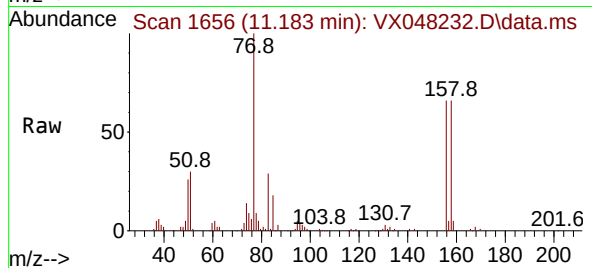
Tgt Ion: 75 Resp: 68104
Ion Ratio Lower Upper
75 100
77 45.1 22.4 67.2





#77
Bromobenzene
Concen: 49.303 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

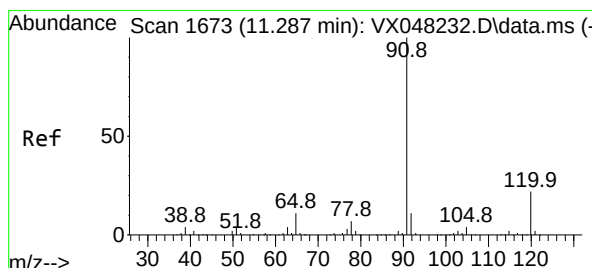
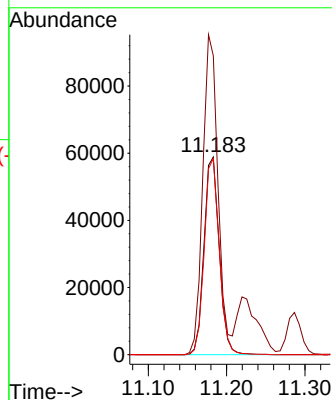
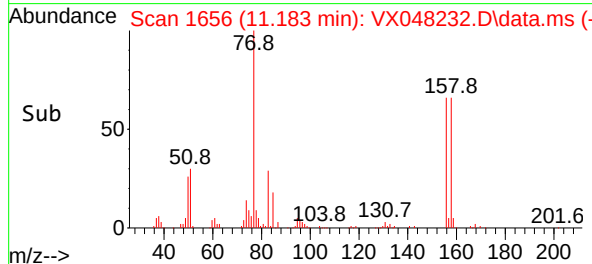
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 156 Resp: 7954
Ion Ratio Lower Upper
156 100
77 161.6 87.0 261.0
158 97.3 47.8 143.4

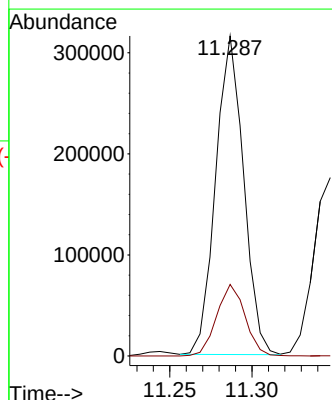
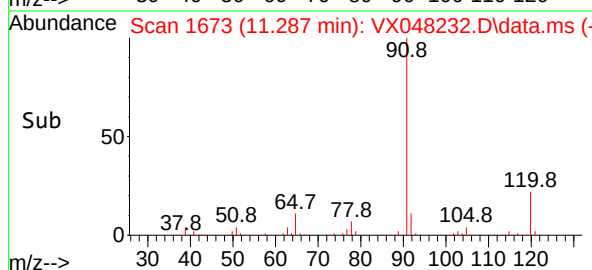
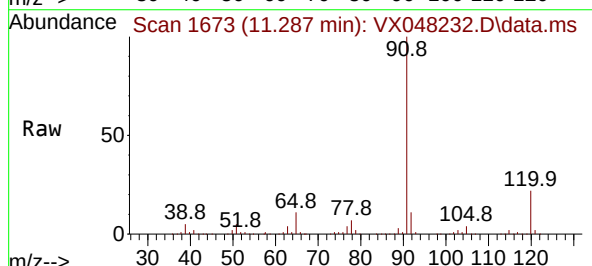
Manual Integrations
APPROVED

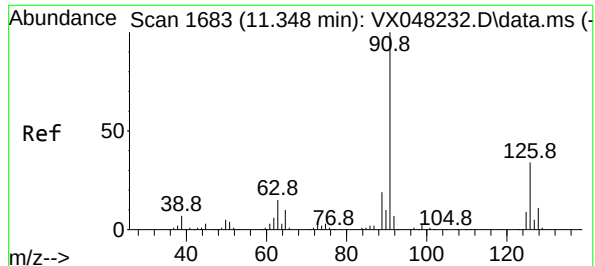
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#78
n-propylbenzene
Concen: 47.621 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 91 Resp: 372312
Ion Ratio Lower Upper
91 100
120 22.9 11.1 33.1





#79

2-Chlorotoluene

Concen: 47.045 ug/l

RT: 11.348 min Scan# 1683

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 22221

Ion Ratio Lower Upper

91 100

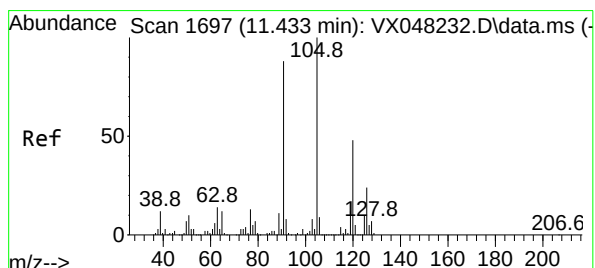
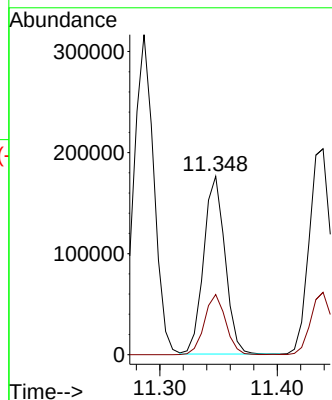
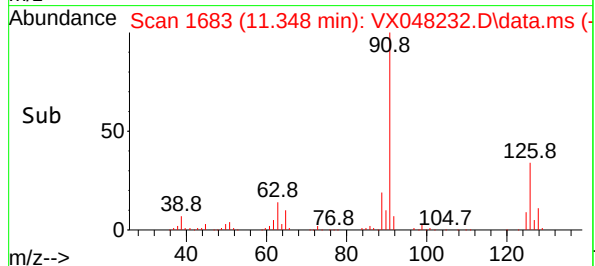
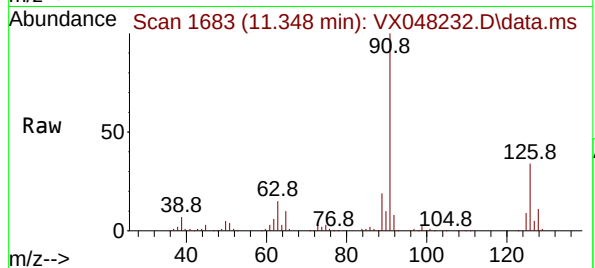
126 33.8 16.4 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#80

1,3,5-Trimethylbenzene

Concen: 50.108 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. 0.000 min

Lab File: VX048232.D

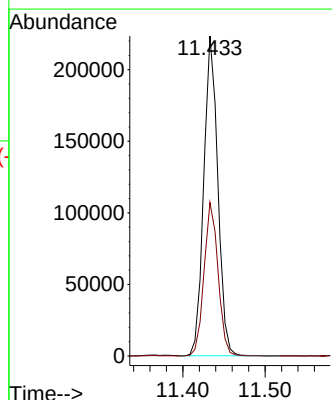
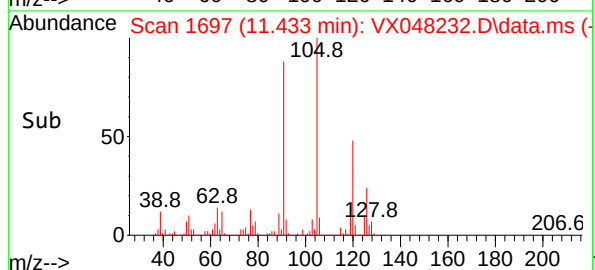
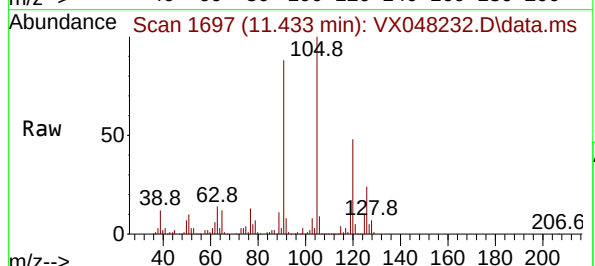
Acq: 20 Oct 2025 12:01

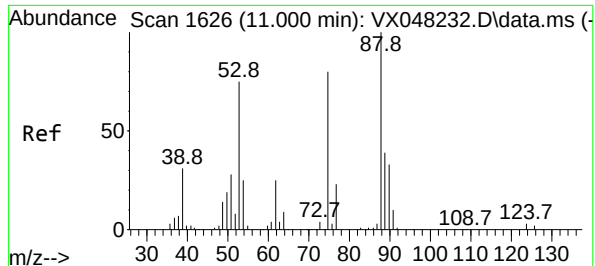
Tgt Ion:105 Resp: 265174

Ion Ratio Lower Upper

105 100

120 48.1 24.0 72.0





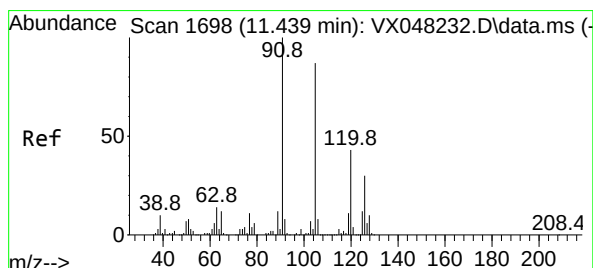
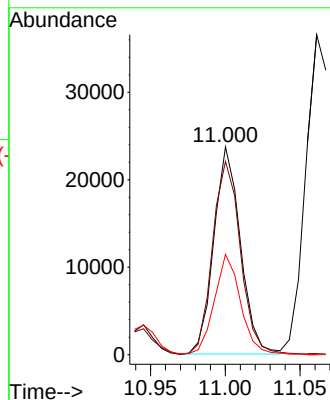
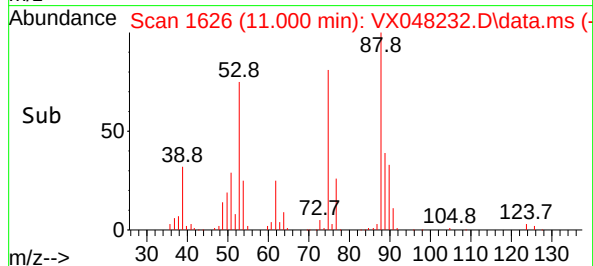
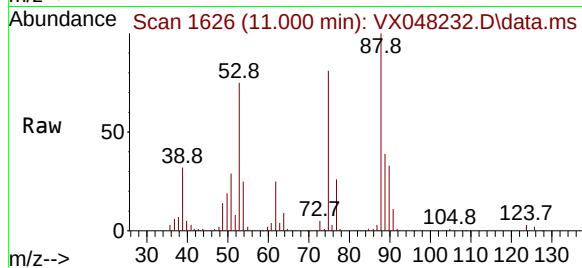
#81
trans-1,4-Dichloro-2-butene
Concen: 50.678 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 2929
Ion Ratio Lower Upper
75 100
53 98.5 79.5 119.3
89 48.0 36.8 55.2

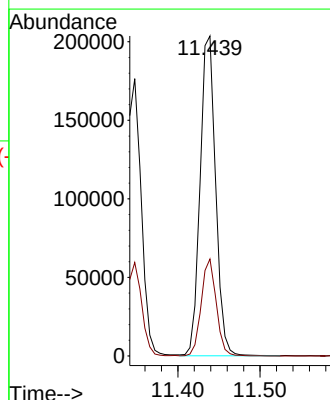
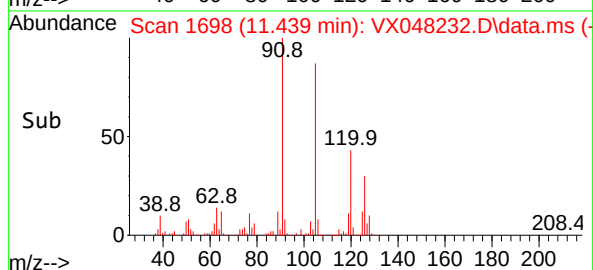
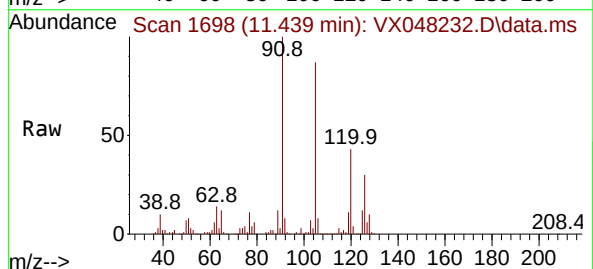
Manual Integrations
APPROVED

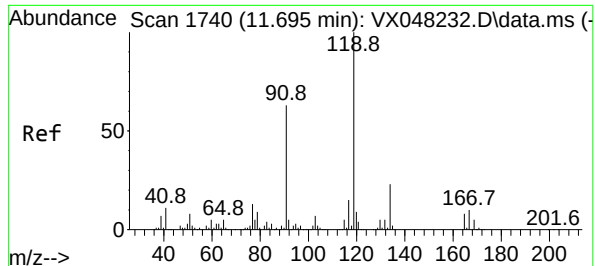
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#82
4-Chlorotoluene
Concen: 48.142 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 91 Resp: 267236
Ion Ratio Lower Upper
91 100
126 29.3 14.1 42.4





#83

tert-Butylbenzene

Concen: 50.539 ug/l

RT: 11.695 min Scan# 1740

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:119 Resp: 27020

Ion Ratio Lower Upper

119 100

91 57.2 30.3 91.0

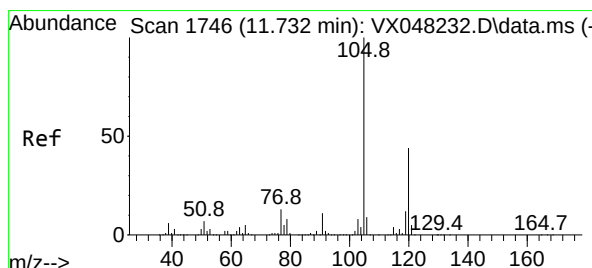
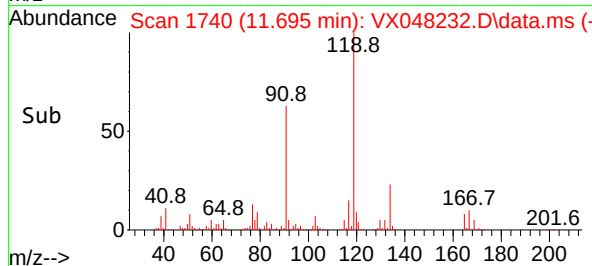
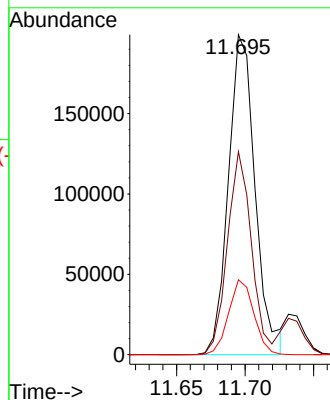
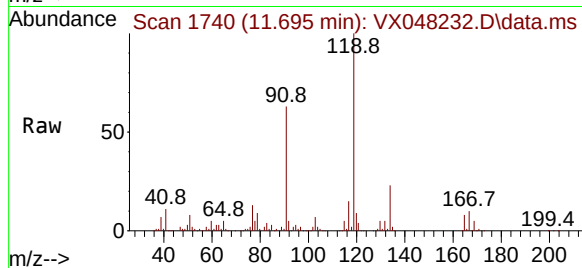
134 22.2 11.4 34.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#84

1,2,4-Trimethylbenzene

Concen: 50.381 ug/l

RT: 11.732 min Scan# 1746

Delta R.T. 0.000 min

Lab File: VX048232.D

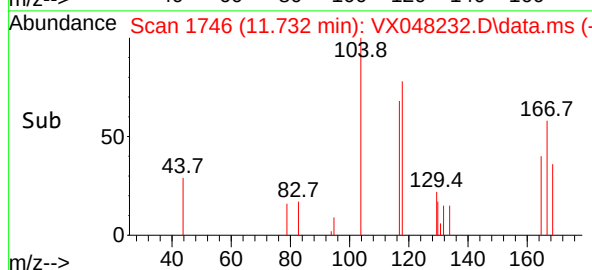
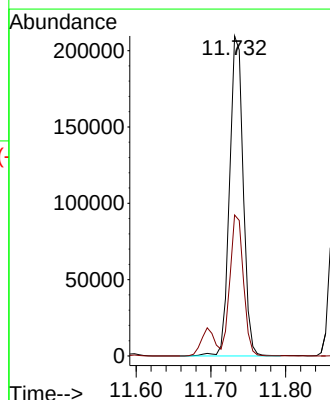
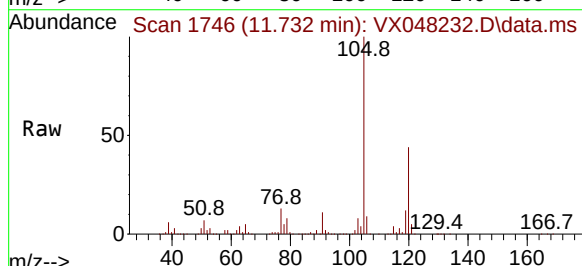
Acq: 20 Oct 2025 12:01

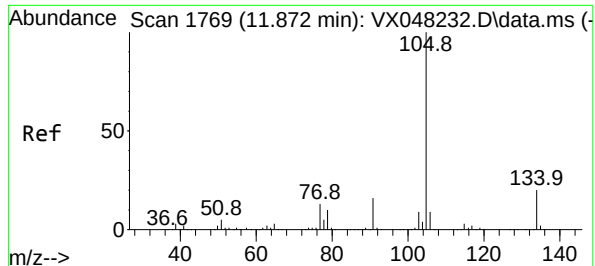
Tgt Ion:105 Resp: 265485

Ion Ratio Lower Upper

105 100

120 43.5 22.1 66.5





#85

sec-Butylbenzene

Concen: 49.298 ug/l

RT: 11.872 min Scan# 1769

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:105 Resp: 322219

Ion Ratio Lower Upper

105 100

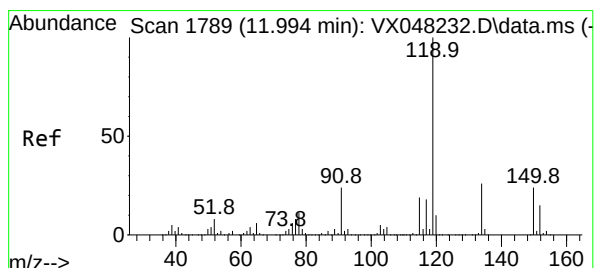
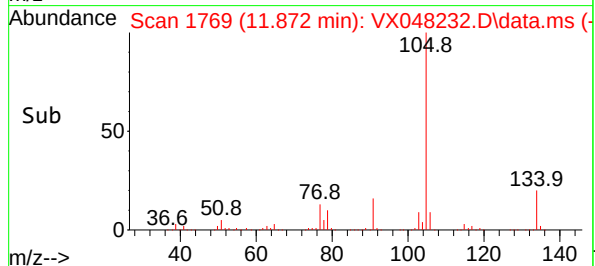
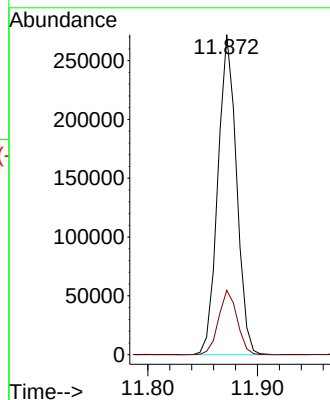
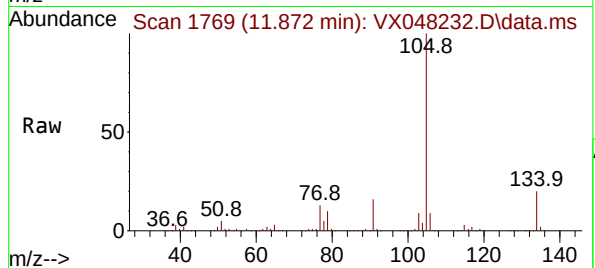
134 20.1 10.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#86

p-Isopropyltoluene

Concen: 50.246 ug/l

RT: 11.994 min Scan# 1789

Delta R.T. 0.006 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

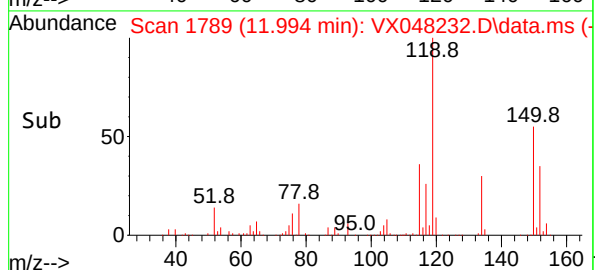
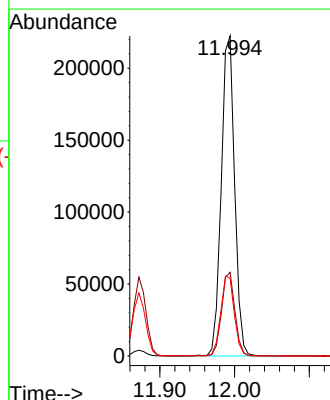
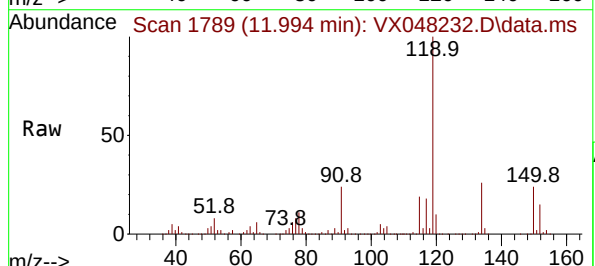
Tgt Ion:119 Resp: 276821

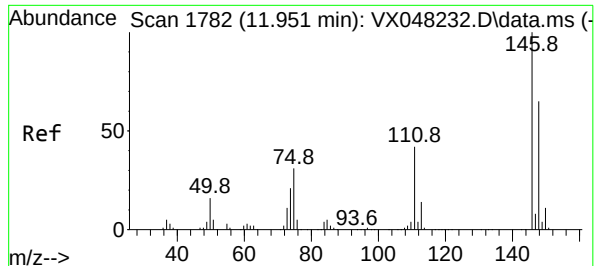
Ion Ratio Lower Upper

119 100

134 25.9 13.0 39.0

91 25.3 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 47.627 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 143699

Ion Ratio Lower Upper

146 100

111 42.1 20.4 61.2

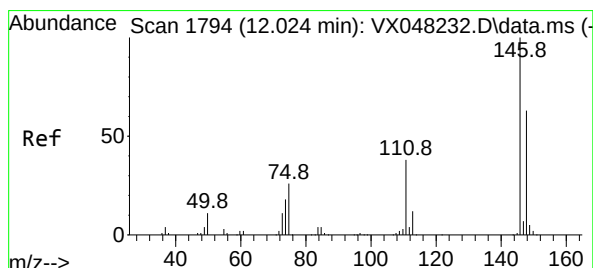
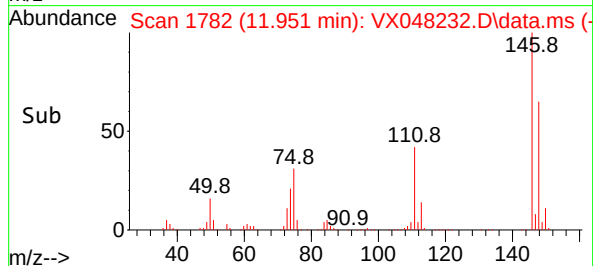
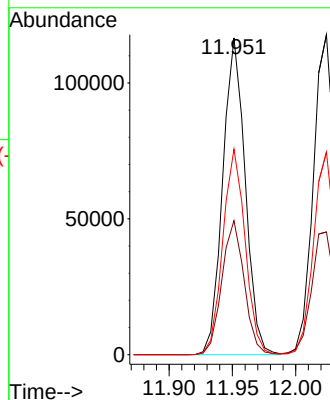
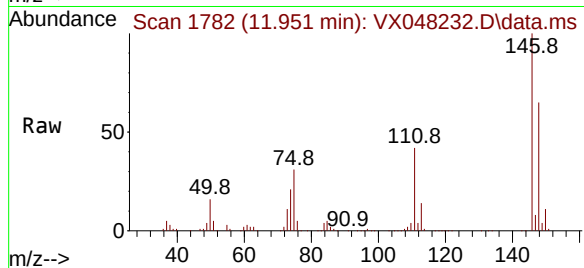
148 64.6 31.9 95.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#88

1,4-Dichlorobenzene

Concen: 46.744 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

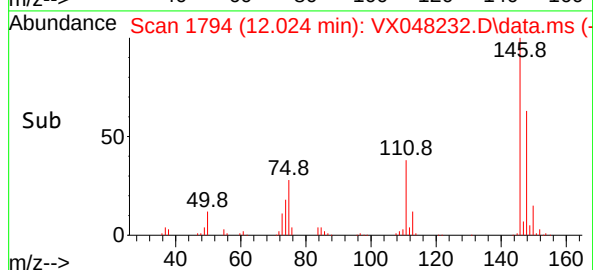
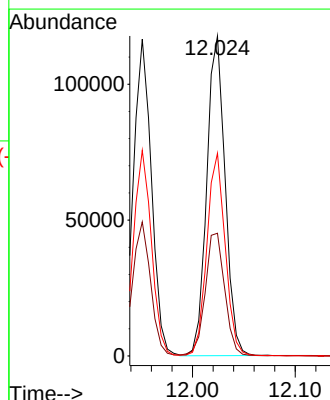
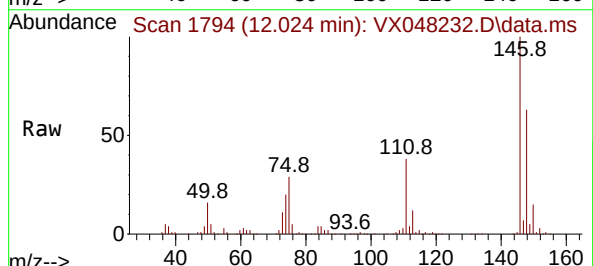
Tgt Ion:146 Resp: 146196

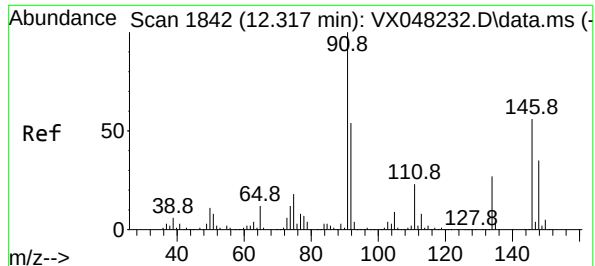
Ion Ratio Lower Upper

146 100

111 40.8 20.1 60.2

148 63.3 31.8 95.3





#89

n-Butylbenzene

Concen: 47.367 ug/l

RT: 12.317 min Scan# 1842

Delta R.T. 0.006 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 24306

Ion Ratio Lower Upper

91 100

92 54.5 26.9 80.6

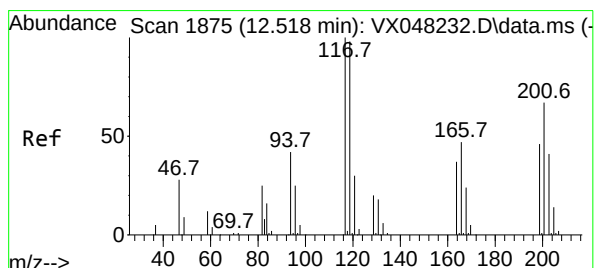
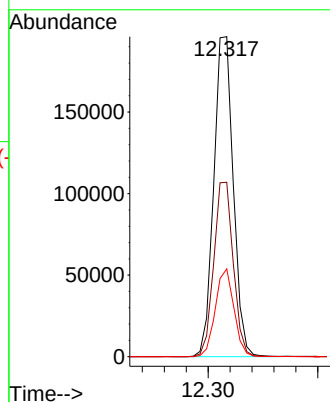
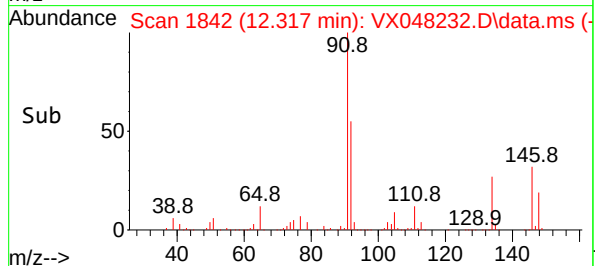
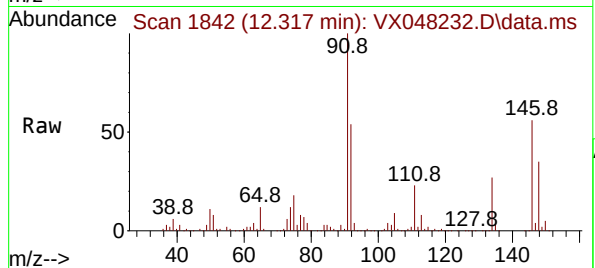
134 26.2 12.7 38.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#90

Hexachloroethane

Concen: 45.350 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VX048232.D

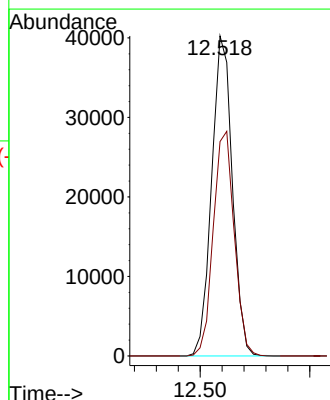
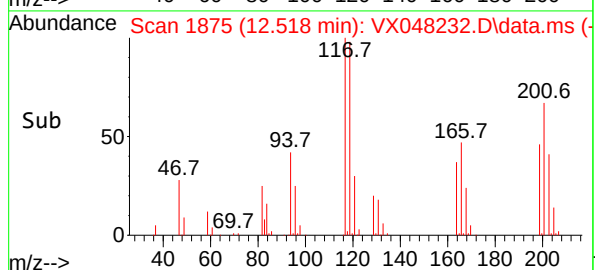
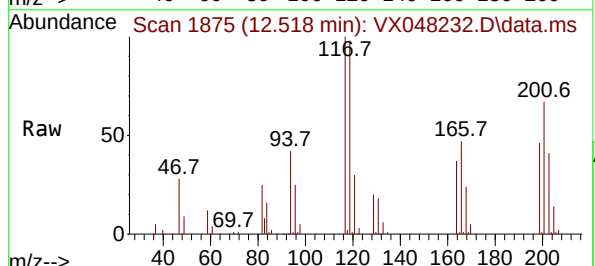
Acq: 20 Oct 2025 12:01

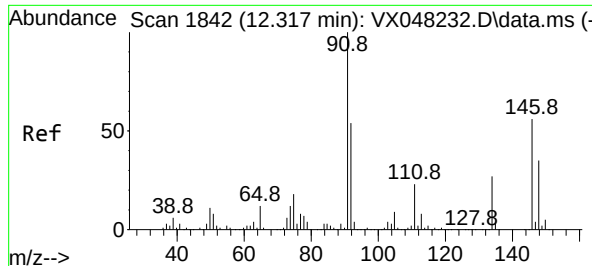
Tgt Ion:117 Resp: 52735

Ion Ratio Lower Upper

117 100

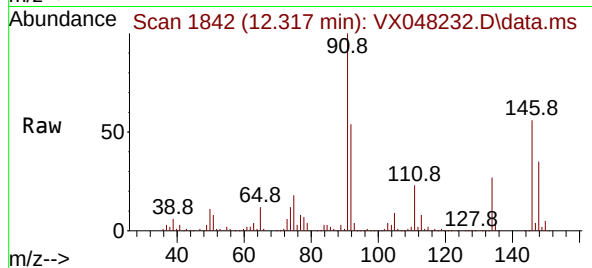
201 71.2 34.1 102.2





#91
1,2-Dichlorobenzene
Concen: 48.582 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.000 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

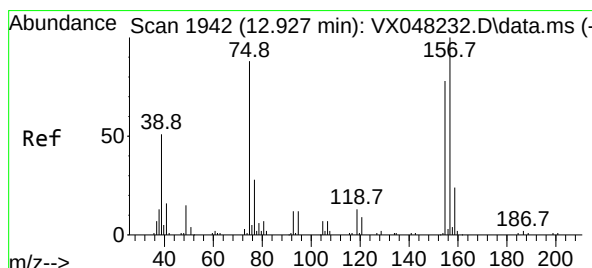
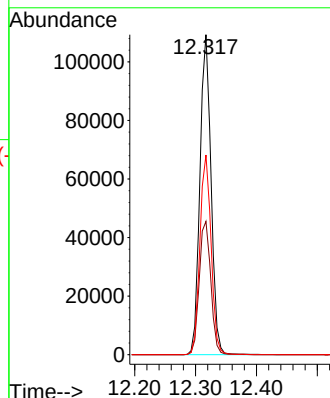
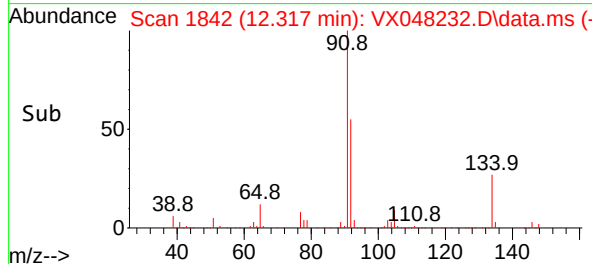
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:146 Resp: 138489
Ion Ratio Lower Upper
146 100
111 43.4 21.9 65.5
148 62.9 31.9 95.5

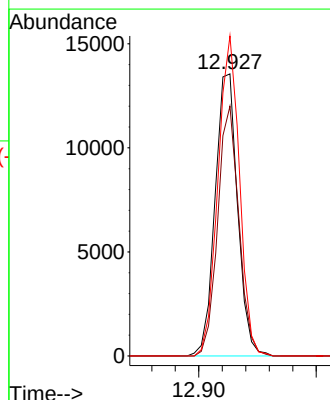
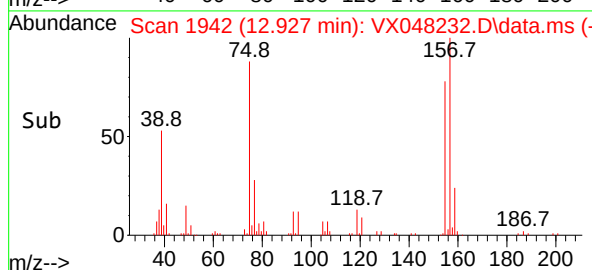
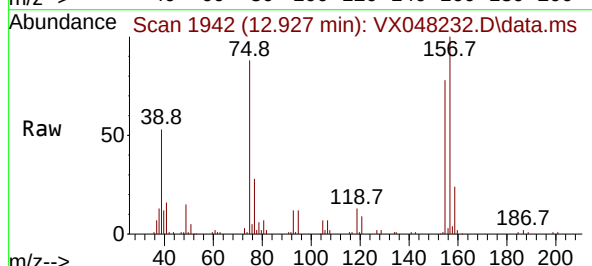
Manual Integrations
APPROVED

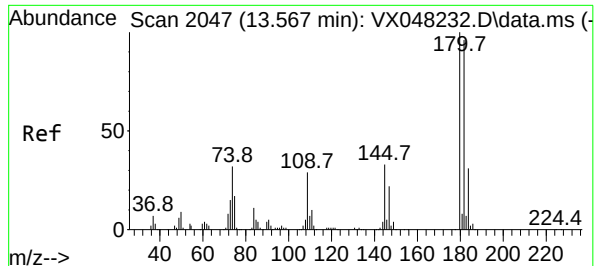
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 54.111 ug/l
RT: 12.927 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX048232.D
Acq: 20 Oct 2025 12:01

Tgt Ion: 75 Resp: 18059
Ion Ratio Lower Upper
75 100
155 83.5 42.8 128.4
157 108.0 54.2 162.6





#93

1,2,4-Trichlorobenzene

Concen: 52.839 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

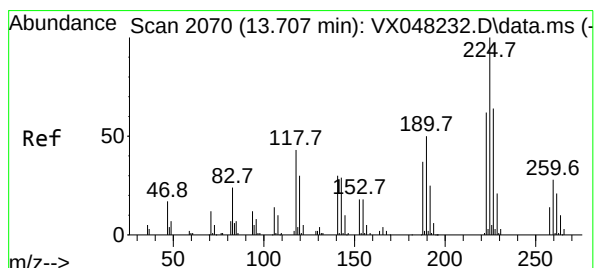
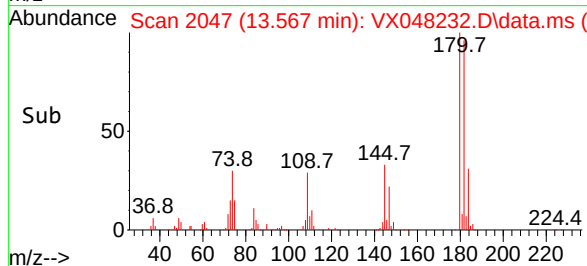
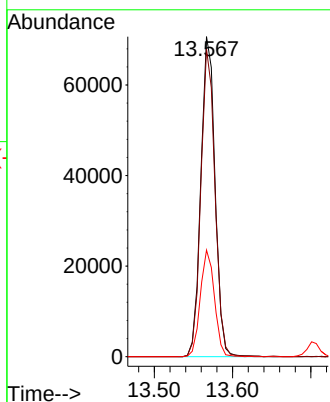
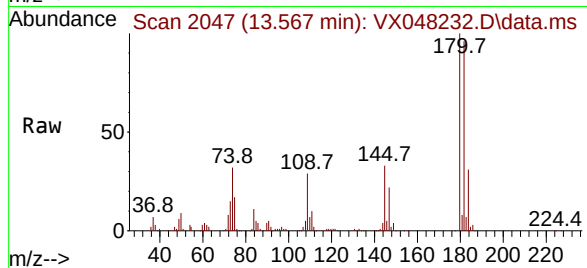
Tgt Ion:	180	Resp:	88920
Ion Ratio	Lower	Upper	
180	100		
182	95.5	47.3	142.0
145	33.1	16.3	48.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#94

Hexachlorobutadiene

Concen: 53.334 ug/l

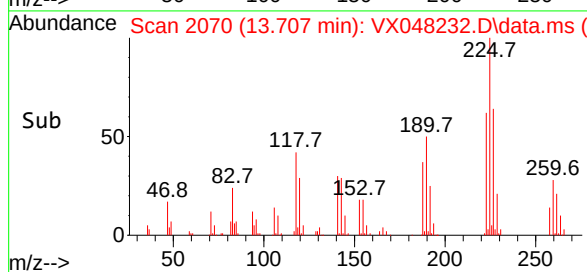
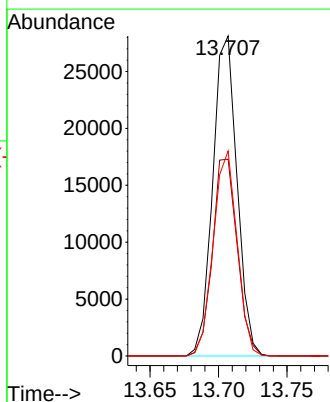
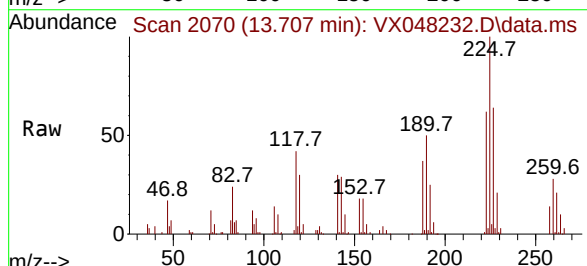
RT: 13.707 min Scan# 2070

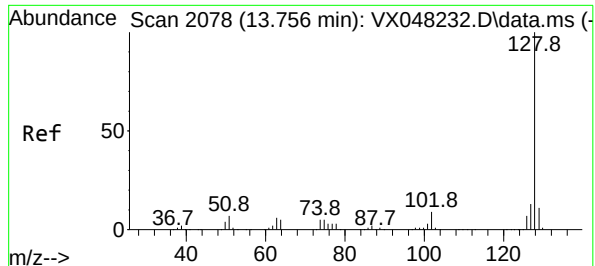
Delta R.T. 0.006 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Tgt Ion:	225	Resp:	34615
Ion Ratio	Lower	Upper	
225	100		
223	63.0	32.6	97.7
227	62.9	32.5	97.4





#95

Naphthalene

Concen: 57.999 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:128 Resp: 25728

Ion Ratio Lower Upper

128 100

127 13.0 10.2 15.4

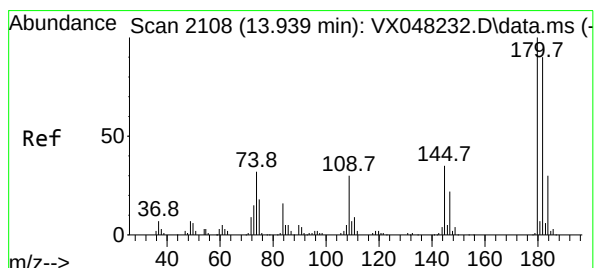
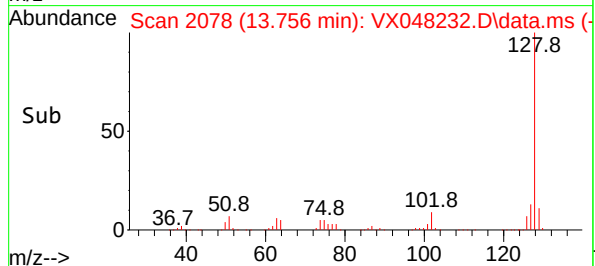
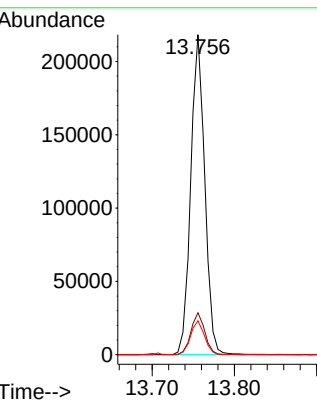
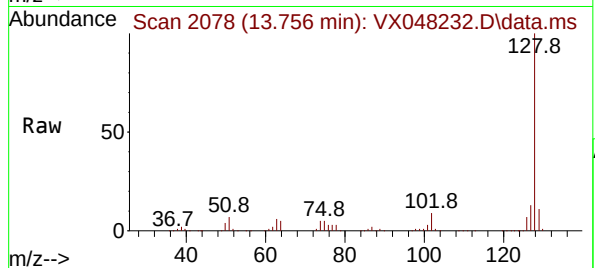
129 10.6 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#96

1,2,3-Trichlorobenzene

Concen: 54.281 ug/l

RT: 13.939 min Scan# 2108

Delta R.T. 0.000 min

Lab File: VX048232.D

Acq: 20 Oct 2025 12:01

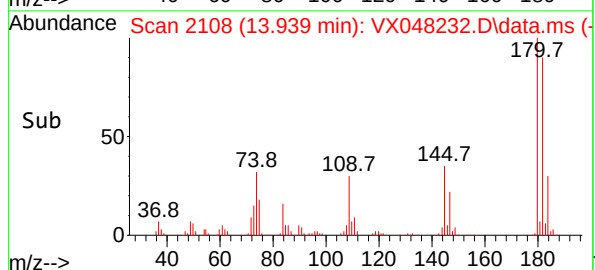
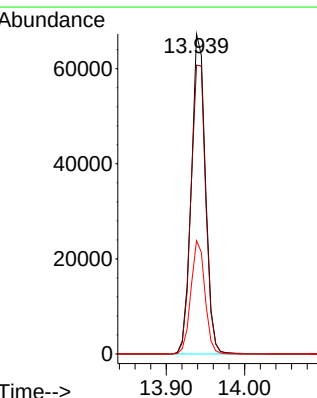
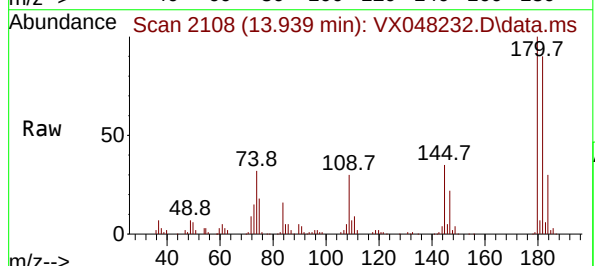
Tgt Ion:180 Resp: 84279

Ion Ratio Lower Upper

180 100

182 94.5 46.6 139.7

145 35.0 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
 Data File : VX048233.D
 Acq On : 20 Oct 2025 12:22
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Quant Time: Oct 20 12:46:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 12:35:14 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/21/2025
 Supervised By : Semsettin Yesilyurt 10/21/2025

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

Internal Standards						
1) Pentafluorobenzene	5.537	168	117551	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.750	114	187766	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.036	117	163588	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	80621	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.940	65	162188	89.060	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 178.120%#	
35) Dibromofluoromethane	5.373	113	129919	99.697	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 199.400%#	
50) Toluene-d8	8.634	98	448948	95.629	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 191.260%#	
62) 4-Bromofluorobenzene	11.061	95	167565	97.996	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 196.000%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.172	85	127029	102.960	ug/l	97
3) Chloromethane	1.300	50	111895	74.863	ug/l	100
4) Vinyl Chloride	1.379	62	108564	68.931	ug/l	100
5) Bromomethane	1.605	94	65752	62.780	ug/l	99
6) Chloroethane	1.690	64	66332	66.181	ug/l	92
7) Trichlorofluoromethane	1.892	101	213301	86.283	ug/l	98
8) Diethyl Ether	2.135	74	58302	69.141	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.337	101	136951	98.309	ug/l	96
10) Methyl Iodide	2.452	142	183697	110.092	ug/l	99
11) Tert butyl alcohol	2.952	59	78284	647.864	ug/l	99
12) 1,1-Dichloroethene	2.324	96	131152	96.282	ug/l	93
13) Acrolein	2.239	56	87244	343.554	ug/l	100
14) Allyl chloride	2.666	41	214290	87.456	ug/l	98
15) Acrylonitrile	3.056	53	298022	514.707	ug/l	100
16) Acetone	2.373	43	260058	418.616	ug/l	99
17) Carbon Disulfide	2.513	76	380127	90.700	ug/l	99
18) Methyl Acetate	2.702	43	120920	95.565	ug/l	93
19) Methyl tert-butyl Ether	3.111	73	427254	104.130	ug/l	97
20) Methylene Chloride	2.788	84	140317	92.718	ug/l	93
21) trans-1,2-Dichloroethene	3.093	96	139080	98.694	ug/l	96
22) Diisopropyl ether	3.751	45	420126	87.566	ug/l	89
23) Vinyl Acetate	3.714	43	1723170	480.325	ug/l	96
24) 1,1-Dichloroethane	3.605	63	248141	91.164	ug/l	99
25) 2-Butanone	4.543	43	353741	488.753	ug/l	98
26) 2,2-Dichloropropane	4.470	77	228643	98.275	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	163444	97.727	ug/l	98
28) Bromochloromethane	4.885	49	108536	86.505	ug/l	86
29) Tetrahydrofuran	4.989	42	216543	509.471	ug/l	93
30) Chloroform	5.080	83	264966	92.461	ug/l	98
31) Cyclohexane	5.464	56	217717	97.754	ug/l	91
32) 1,1,1-Trichloroethane	5.373	97	248018	105.334	ug/l	98
36) 1,1-Dichloropropene	5.684	75	183932	100.194	ug/l	99
37) Ethyl Acetate	4.702	43	153844	104.863	ug/l	99
38) Carbon Tetrachloride	5.665	117	226976	107.719	ug/l	99
39) Methylcyclohexane	7.366	83	235208	113.637	ug/l	95
40) Benzene	6.025	78	535407	98.221	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
 Data File : VX048233.D
 Acq On : 20 Oct 2025 12:22
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/21/2025
 Supervised By : Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 12:46:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 12:35:14 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.909	41	83790	106.641	ug/l	97
42) 1,2-Dichloroethane	6.074	62	198348	101.562	ug/l	99
43) Isopropyl Acetate	6.324	43	256067	103.976	ug/l	95
44) Trichloroethene	7.110	130	142779	103.931	ug/l	99
45) 1,2-Dichloropropane	7.415	63	130188	94.368	ug/l	96
46) Dibromomethane	7.567	93	98105	98.835	ug/l	94
47) Bromodichloromethane	7.805	83	215302	100.358	ug/l	99
48) Methyl methacrylate	7.677	41	131454	104.272	ug/l	95
49) 1,4-Dioxane	7.647	88	35972	3169.845	ug/l	89
51) 4-Methyl-2-Pentanone	8.561	43	720980	526.103	ug/l	94
52) Toluene	8.701	92	341597	104.263	ug/l	99
53) t-1,3-Dichloropropene	8.963	75	215736	107.341	ug/l	99
54) cis-1,3-Dichloropropene	8.354	75	231037	105.465	ug/l	94
55) 1,1,2-Trichloroethane	9.134	97	124910	102.180	ug/l	98
56) Ethyl methacrylate	9.104	69	196699	118.305	ug/l	94
57) 1,3-Dichloropropane	9.293	76	214853	100.598	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	505448	592.044	ug/l	96
59) 2-Hexanone	9.415	43	509398	531.416	ug/l	95
60) Dibromochloromethane	9.506	129	166167	108.598	ug/l	100
61) 1,2-Dibromoethane	9.591	107	134662	107.431	ug/l	97
64) Tetrachloroethene	9.256	164	121163	105.633	ug/l	97
65) Chlorobenzene	10.061	112	375532	104.990	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.146	131	140599	109.080	ug/l	97
67) Ethyl Benzene	10.177	91	656925	107.128	ug/l	98
68) m/p-Xylenes	10.286	106	490879	214.875	ug/l	100
69) o-Xylene	10.622	106	236648	110.042	ug/l	100
70) Styrene	10.640	104	407916	110.197	ug/l	99
71) Bromoform	10.780	173	109613	115.806	ug/l #	98
73) Isopropylbenzene	10.945	105	624767	111.418	ug/l	99
74) N-amyl acetate	10.829	43	228080	109.030	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.195	83	164207	103.367	ug/l	99
76) 1,2,3-Trichloropropane	11.219	75	130599m	106.083	ug/l	
77) Bromobenzene	11.183	156	153619	109.475	ug/l	93
78) n-propylbenzene	11.286	91	732684	107.747	ug/l	98
79) 2-Chlorotoluene	11.347	91	434217	105.691	ug/l	100
80) 1,3,5-Trimethylbenzene	11.432	105	519549	112.876	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	59059	117.466	ug/l	98
82) 4-Chlorotoluene	11.439	91	506861	104.983	ug/l	98
83) tert-Butylbenzene	11.695	119	529264	113.817	ug/l	98
84) 1,2,4-Trimethylbenzene	11.731	105	523474	114.214	ug/l	99
85) sec-Butylbenzene	11.871	105	639904	112.562	ug/l	100
86) p-Isopropyltoluene	11.987	119	548119	114.386	ug/l	98
87) 1,3-Dichlorobenzene	11.951	146	281617	107.314	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	277908	102.163	ug/l	98
89) n-Butylbenzene	12.316	91	495486	111.016	ug/l	99
90) Hexachloroethane	12.518	117	107057	105.851	ug/l	93
91) 1,2-Dichlorobenzene	12.316	146	261022	105.277	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	36087	124.320	ug/l	97
93) 1,2,4-Trichlorobenzene	13.566	180	179562	122.679	ug/l	100
94) Hexachlorobutadiene	13.706	225	68645	121.605	ug/l	98
95) Naphthalene	13.755	128	511355	132.536	ug/l	99
96) 1,2,3-Trichlorobenzene	13.944	180	169248	125.328	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048233.D
Acq On : 20 Oct 2025 12:22
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 12:46:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

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

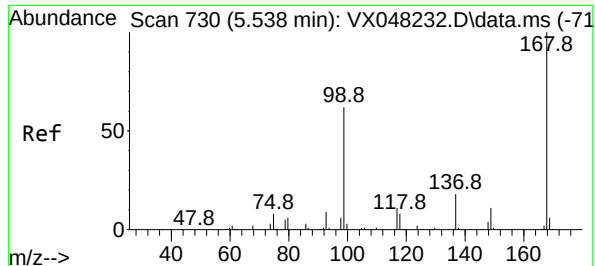
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025





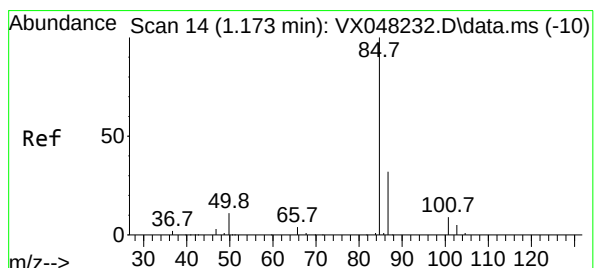
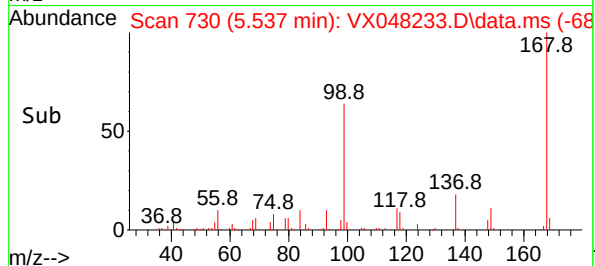
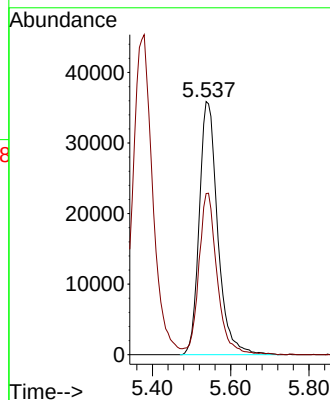
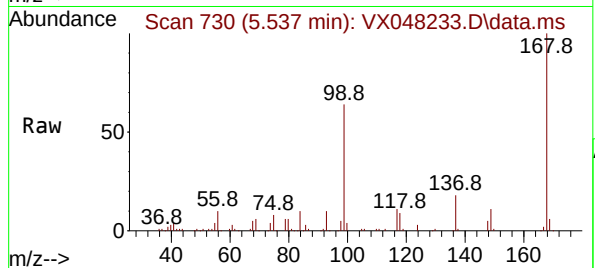
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.007 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 11755
Ion Ratio Lower Upper
168 100
99 63.4 46.4 69.6

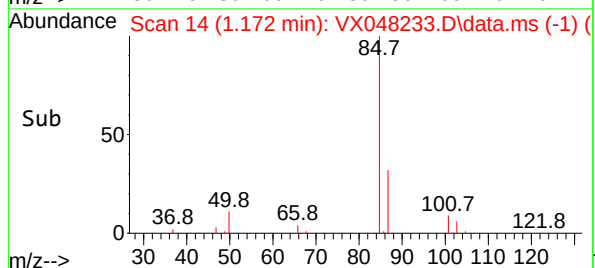
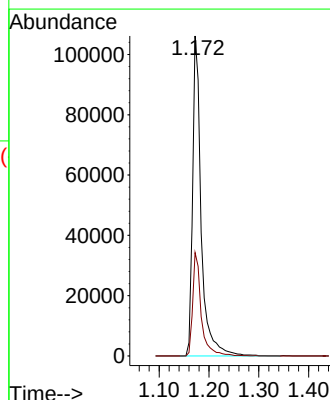
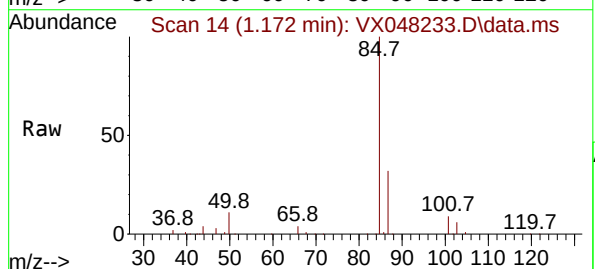
Manual Integrations
APPROVED

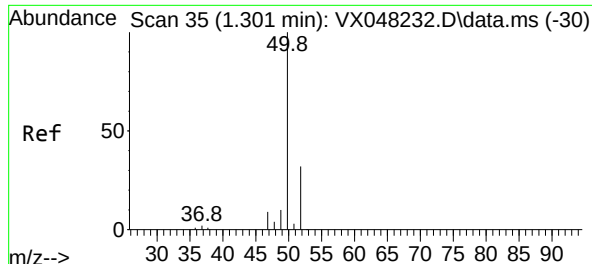
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#2
Dichlorodifluoromethane
Concen: 102.960 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

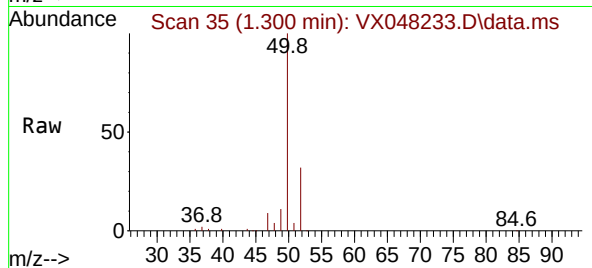
Tgt Ion: 85 Resp: 127029
Ion Ratio Lower Upper
85 100
87 32.3 15.3 45.9





#3
Chloromethane
Concen: 74.863 ug/l
RT: 1.300 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

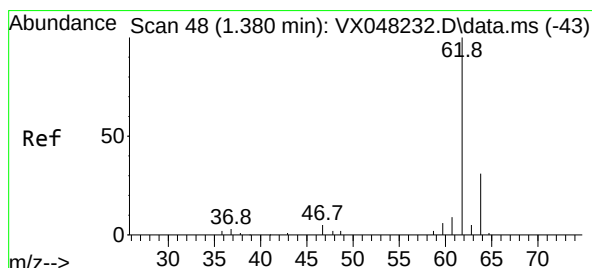
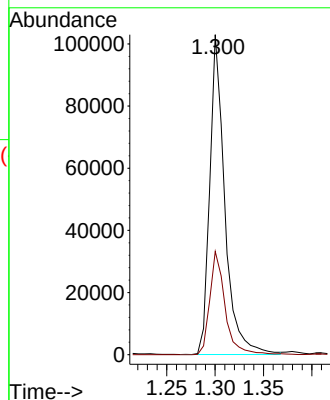
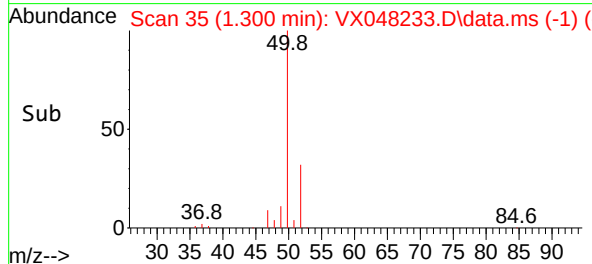
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 50 Resp: 11189
Ion Ratio Lower Upper
50 100
52 32.2 25.9 38.9

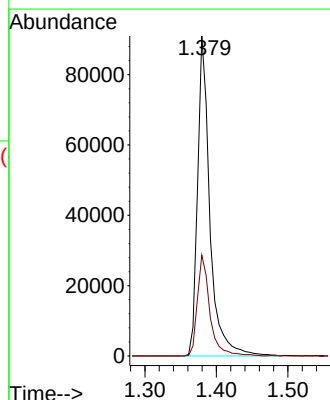
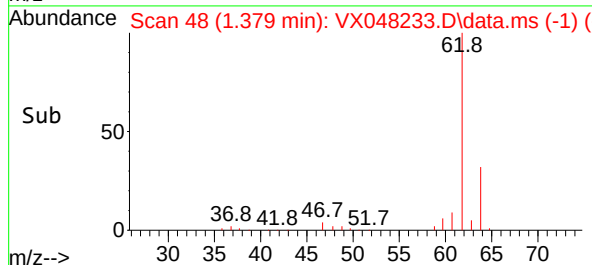
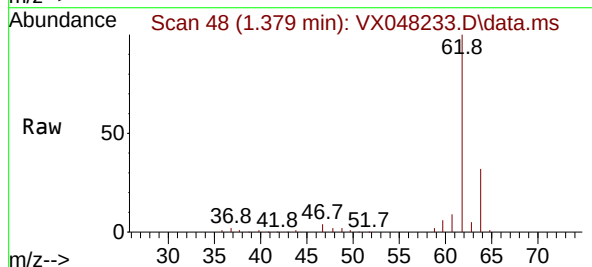
Manual Integrations
APPROVED

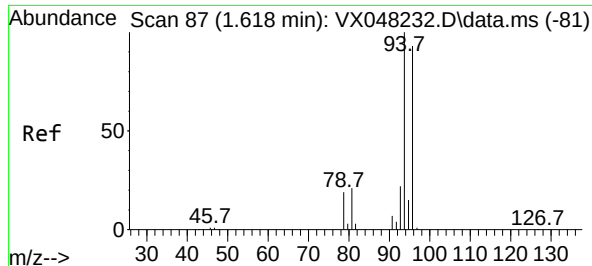
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#4
Vinyl Chloride
Concen: 68.931 ug/l
RT: 1.379 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 62 Resp: 108564
Ion Ratio Lower Upper
62 100
64 31.5 25.1 37.7





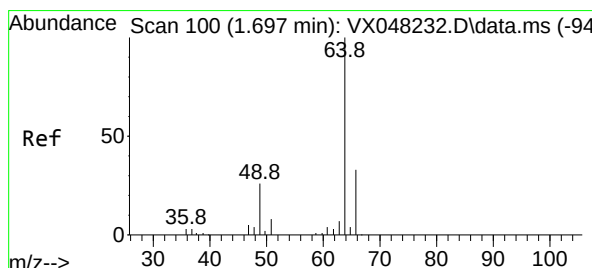
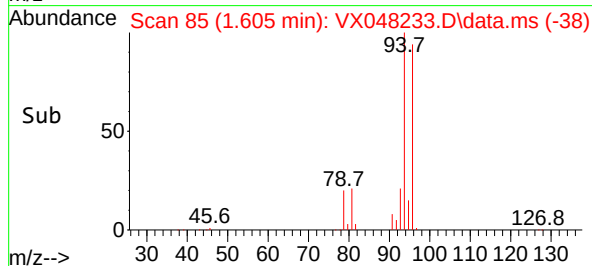
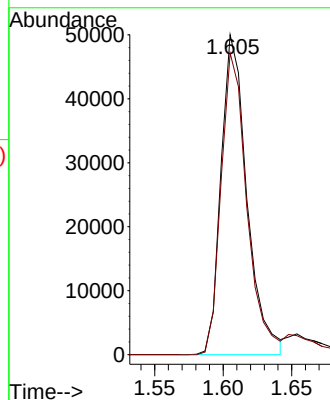
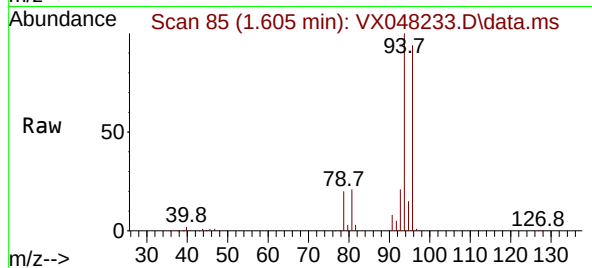
#5
Bromomethane
Concen: 62.780 ug/l
RT: 1.605 min Scan# 81
Delta R.T. -0.013 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 65752
Ion Ratio Lower Upper
94 100
96 94.3 76.0 114.0

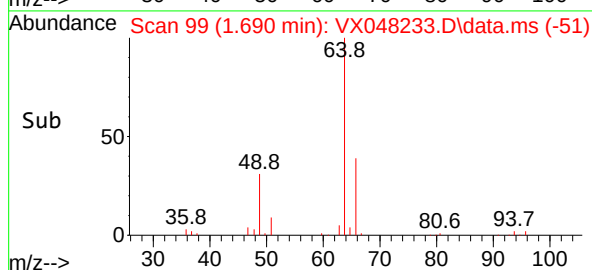
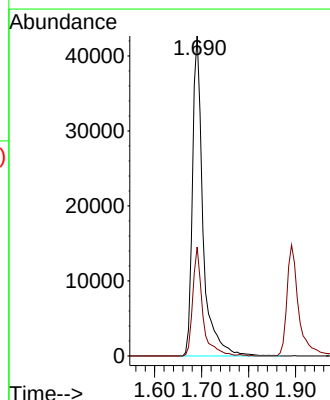
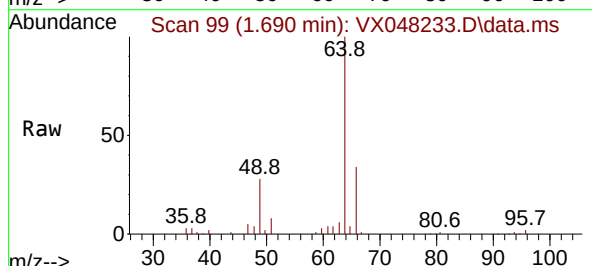
Manual Integrations
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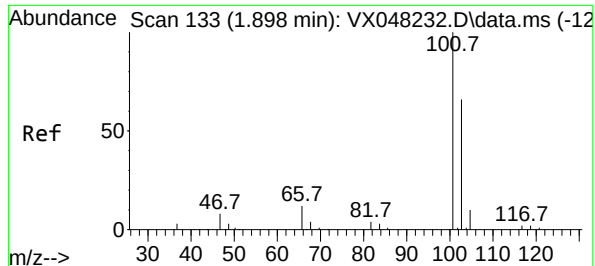
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#6
Chloroethane
Concen: 66.181 ug/l
RT: 1.690 min Scan# 99
Delta R.T. -0.007 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 64 Resp: 66332
Ion Ratio Lower Upper
64 100
66 34.0 23.9 35.9





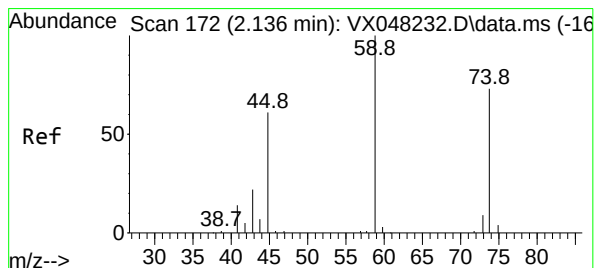
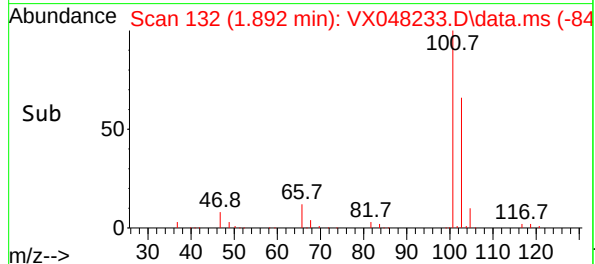
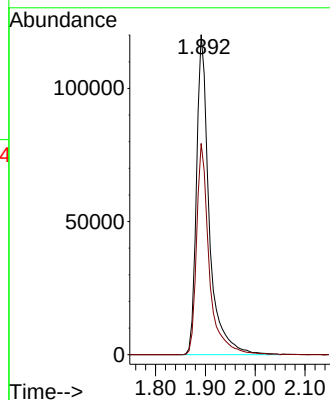
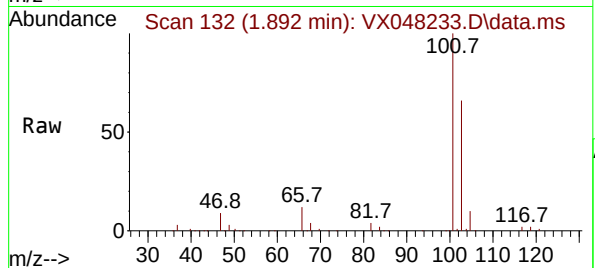
#7
Trichlorofluoromethane
Concen: 86.283 ug/l
RT: 1.892 min Scan# 11
Delta R.T. -0.007 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 21330
Ion Ratio Lower Upper
101 100
103 66.0 51.6 77.4

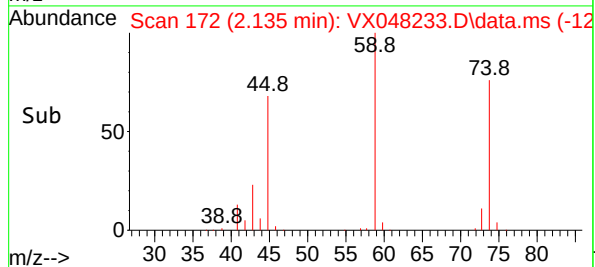
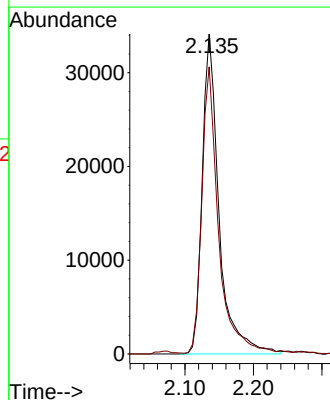
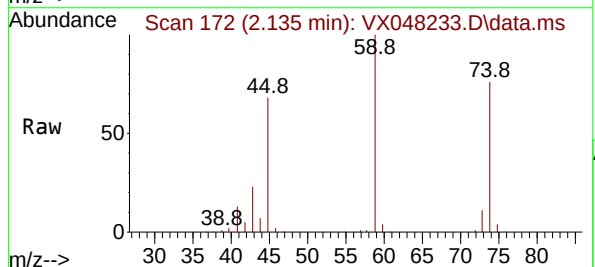
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APPROVED

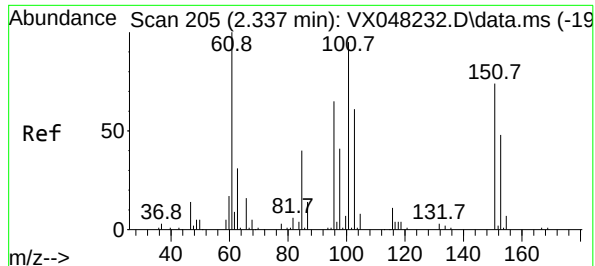
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#8
Diethyl Ether
Concen: 69.141 ug/l
RT: 2.135 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 74 Resp: 58302
Ion Ratio Lower Upper
74 100
45 88.0 50.0 149.8





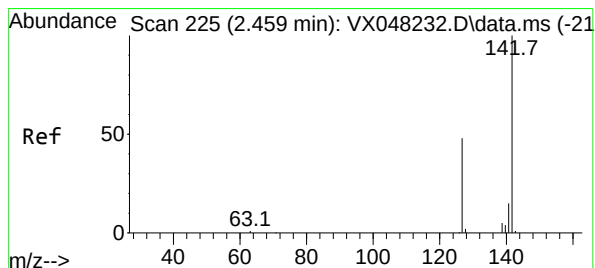
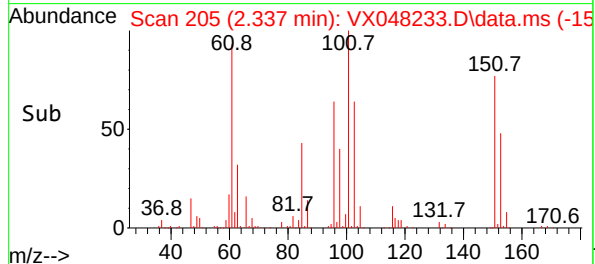
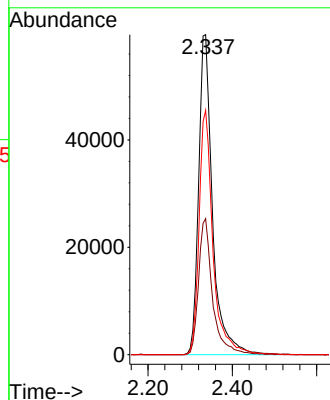
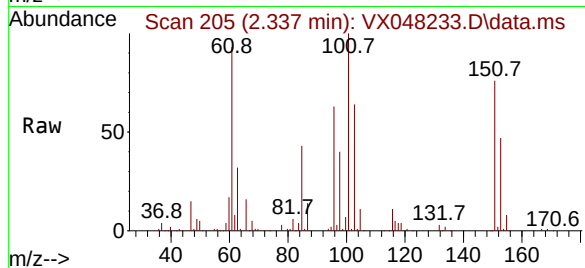
#9
1,1,2-Trichlorotrifluoroethane
Concen: 98.309 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 13695
Ion Ratio Lower Upper
101 100
85 42.9 35.6 53.4
151 76.5 58.0 87.0

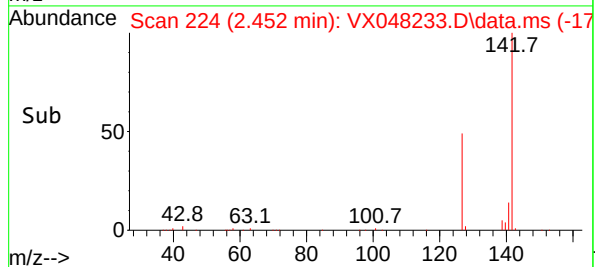
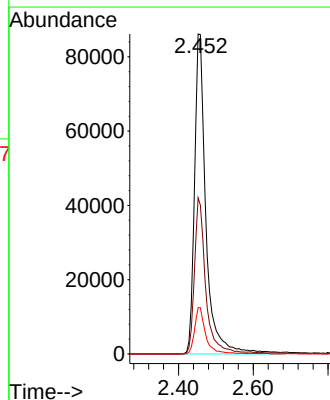
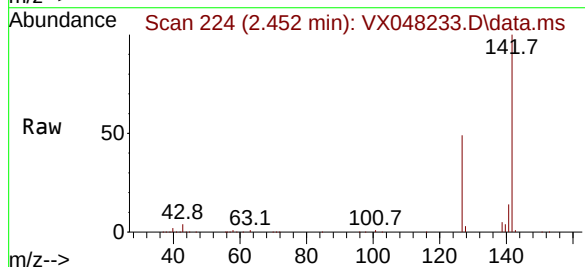
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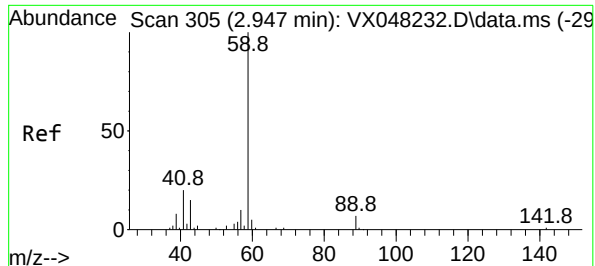
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#10
Methyl Iodide
Concen: 110.092 ug/l
RT: 2.452 min Scan# 224
Delta R.T. -0.007 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:142 Resp: 183697
Ion Ratio Lower Upper
142 100
127 47.6 38.5 57.7
141 14.1 11.6 17.4





#11

Tert butyl alcohol

Concen: 647.864 ug/l

RT: 2.952 min Scan# 305

Delta R.T. 0.012 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 59 Resp: 78284

Ion Ratio Lower Upper

59 100

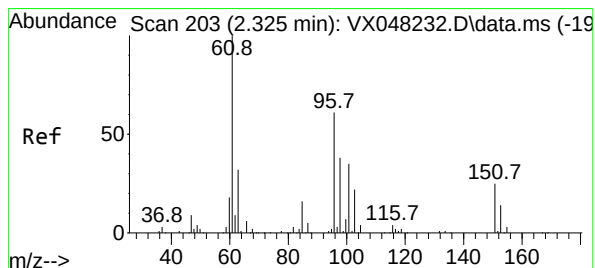
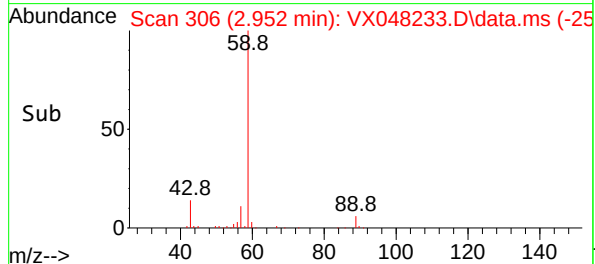
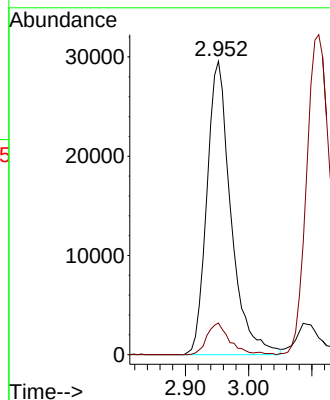
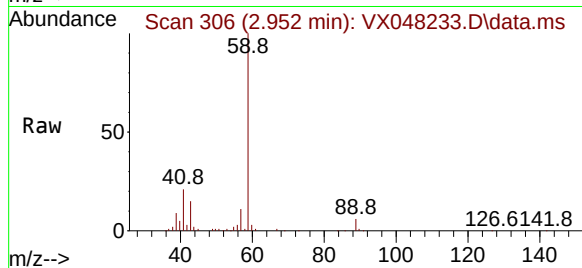
57 9.9 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#12

1,1-Dichloroethene

Concen: 96.282 ug/l

RT: 2.324 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

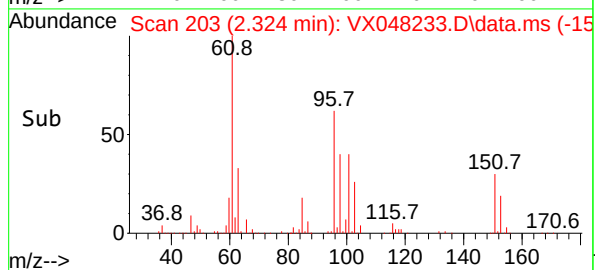
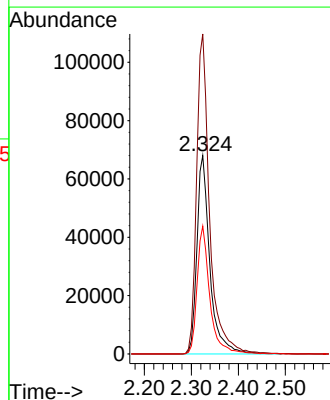
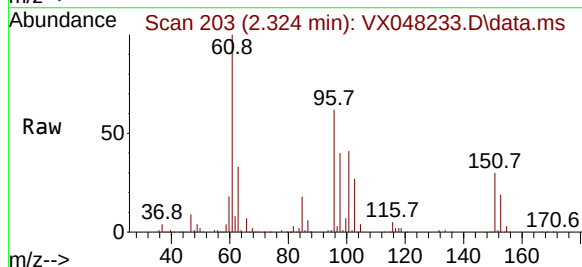
Tgt Ion: 96 Resp: 131152

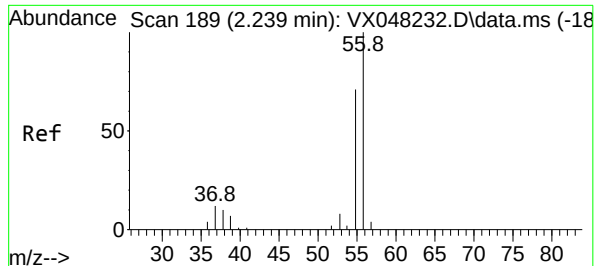
Ion Ratio Lower Upper

96 100

61 161.2 139.0 208.6

98 64.4 52.4 78.6





#13

Acrolein

Concen: 343.554 ug/l

RT: 2.239 min Scan# 189

Delta R.T. 0.006 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 87244

Ion Ratio Lower Upper

56 100

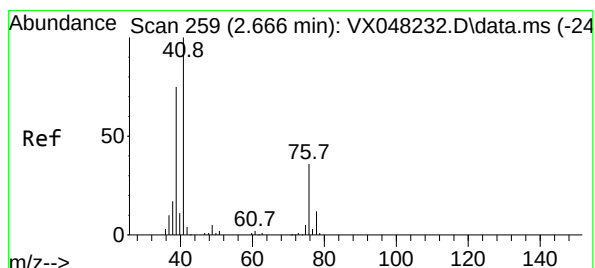
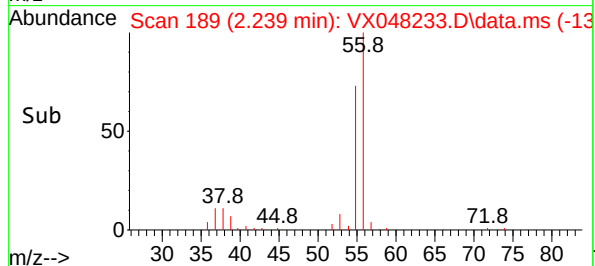
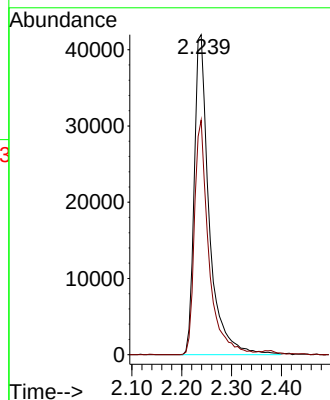
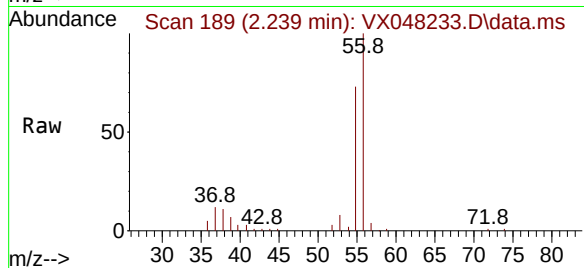
55 70.2 56.1 84.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#14

Allyl chloride

Concen: 87.456 ug/l

RT: 2.666 min Scan# 259

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

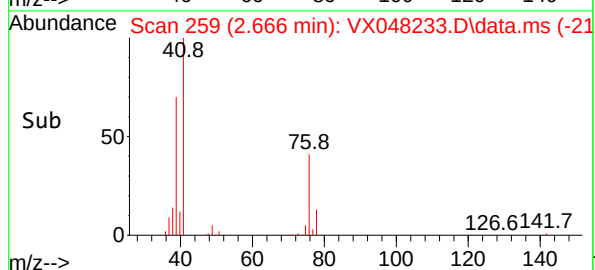
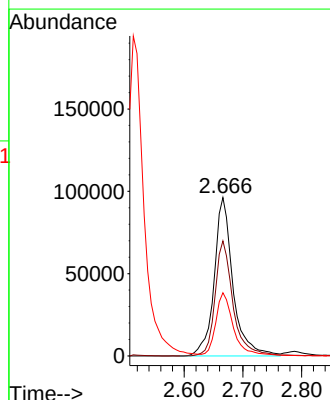
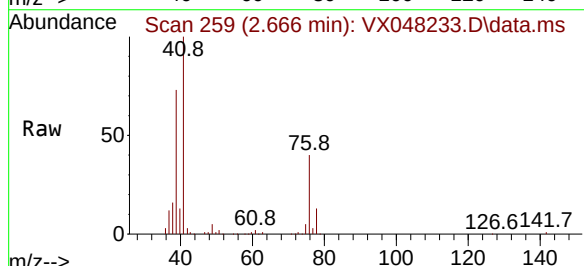
Tgt Ion: 41 Resp: 214290

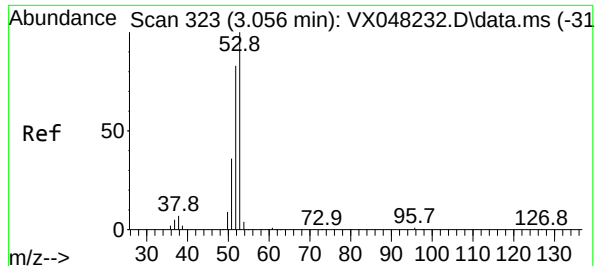
Ion Ratio Lower Upper

41 100

39 69.5 56.0 84.0

76 37.6 27.5 41.3





#15

Acrylonitrile

Concen: 514.707 ug/l

RT: 3.056 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 53 Resp: 29802

Ion Ratio Lower Upper

53 100

52 82.7 66.1 99.1

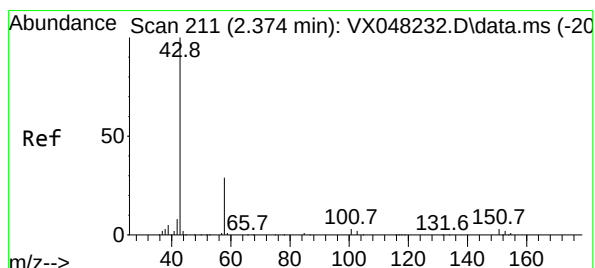
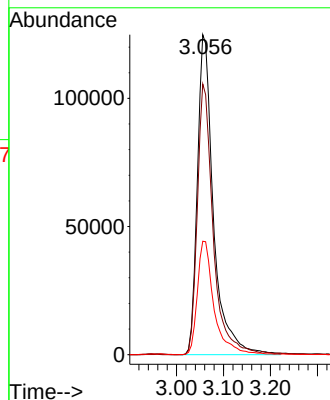
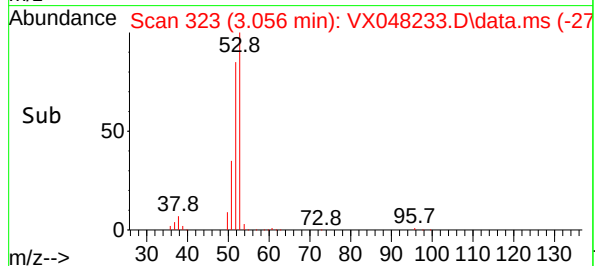
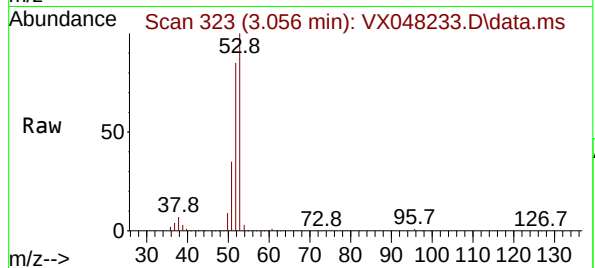
51 37.0 29.0 43.4

Manual Integrations

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Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#16

Acetone

Concen: 418.616 ug/l

RT: 2.373 min Scan# 211

Delta R.T. -0.000 min

Lab File: VX048233.D

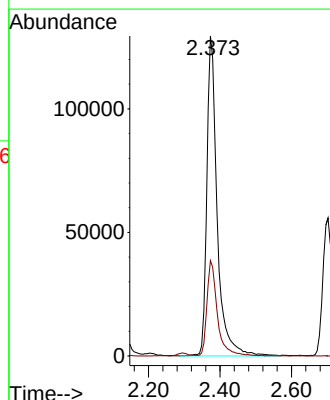
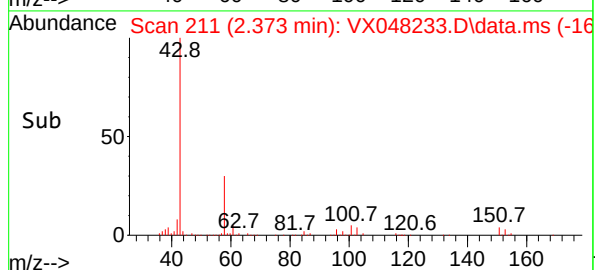
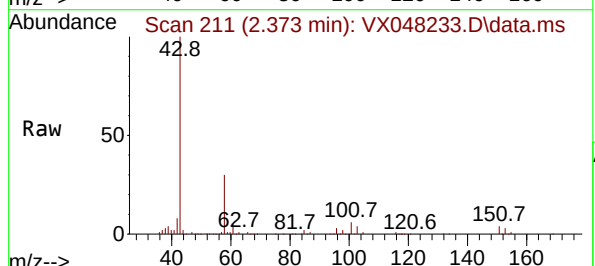
Acq: 20 Oct 2025 12:22

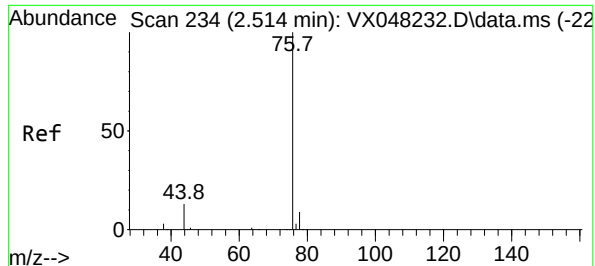
Tgt Ion: 43 Resp: 260058

Ion Ratio Lower Upper

43 100

58 29.8 23.4 35.2





#17

Carbon Disulfide

Concen: 90.700 ug/l

RT: 2.513 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Tgt Ion: 76 Resp: 38012

Ion Ratio Lower Upper

76 100

78 9.3 7.1 10.7

Instrument :

MSVOA_X

ClientSampleId :

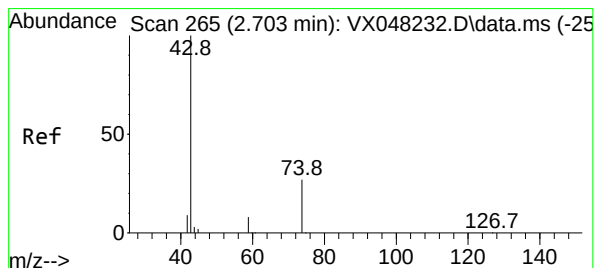
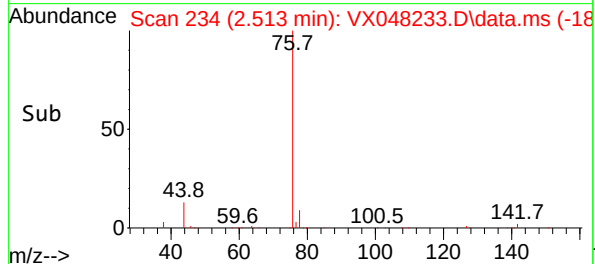
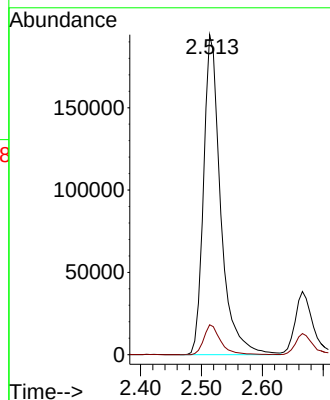
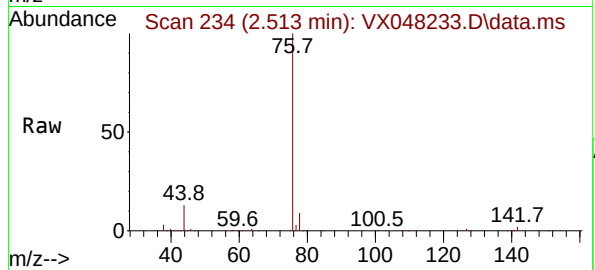
VSTDICC100

Manual Integrations

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Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#18

Methyl Acetate

Concen: 95.565 ug/l

RT: 2.702 min Scan# 265

Delta R.T. 0.006 min

Lab File: VX048233.D

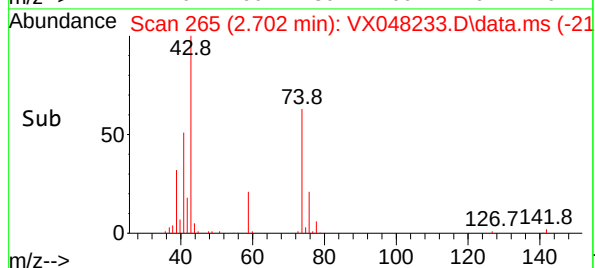
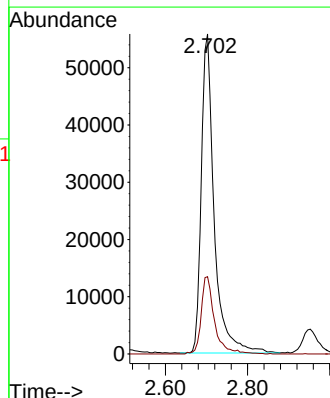
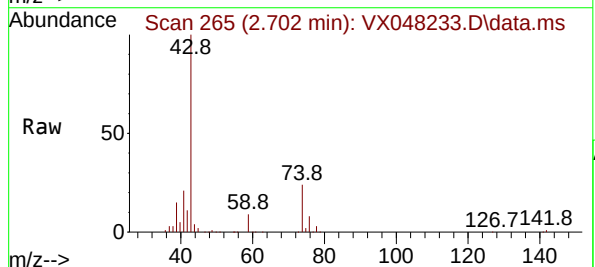
Acq: 20 Oct 2025 12:22

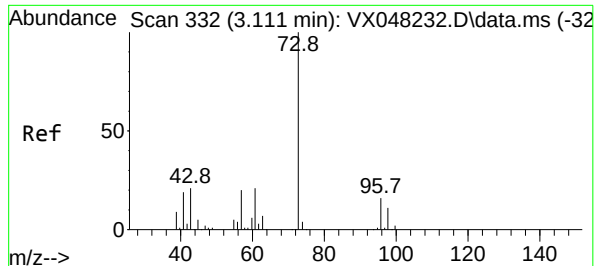
Tgt Ion: 43 Resp: 120920

Ion Ratio Lower Upper

43 100

74 25.0 17.5 26.3





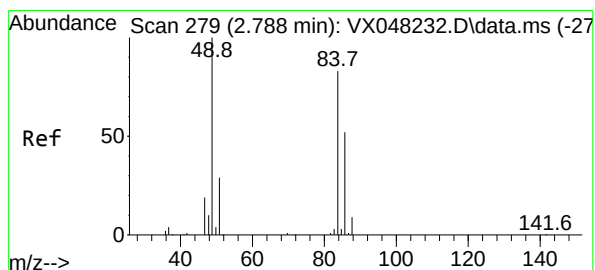
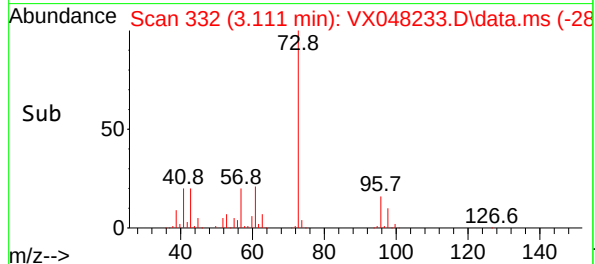
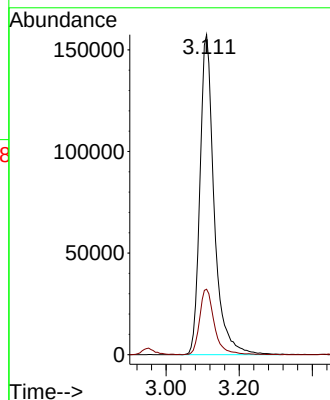
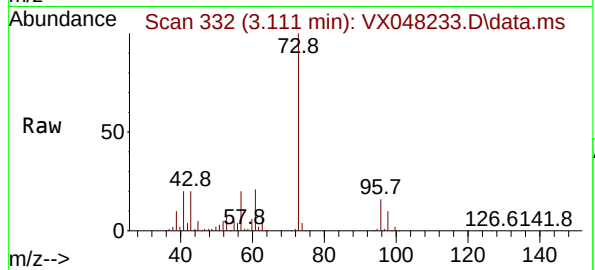
#19
Methyl tert-butyl Ether
Concen: 104.130 ug/l
RT: 3.111 min Scan# 311
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 427254
Ion Ratio Lower Upper
73 100
57 20.5 17.7 26.5

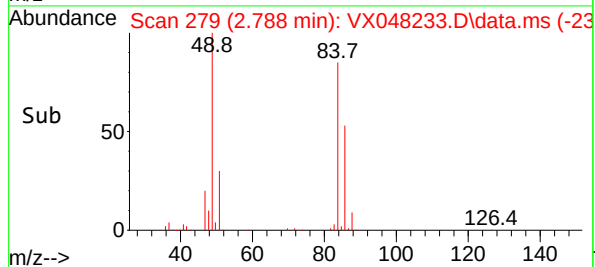
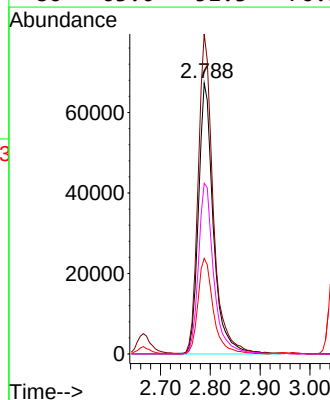
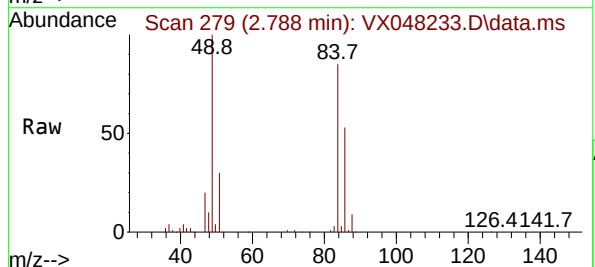
Manual Integrations
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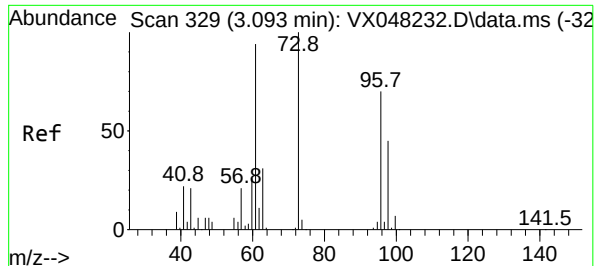
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#20
Methylene Chloride
Concen: 92.718 ug/l
RT: 2.788 min Scan# 279
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

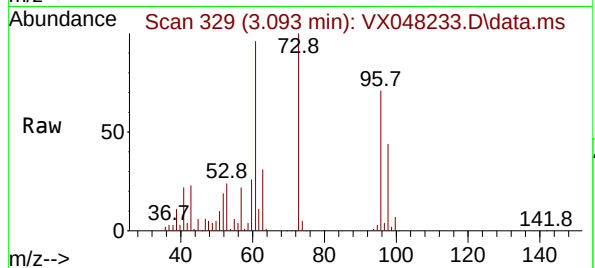
Tgt Ion: 84 Resp: 140317
Ion Ratio Lower Upper
84 100
49 117.9 104.1 156.1
51 35.3 31.3 46.9
86 63.0 51.3 76.9





#21
trans-1,2-Dichloroethene
Concen: 98.694 ug/l
RT: 3.093 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

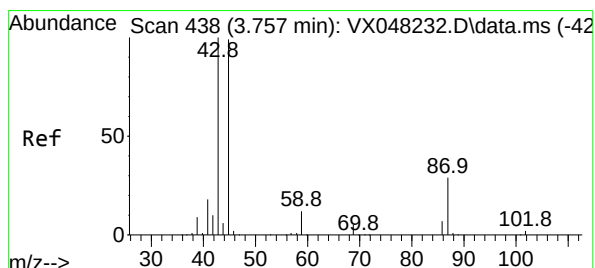
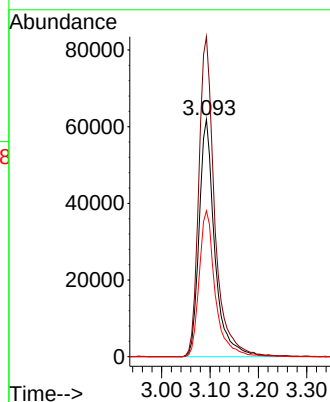
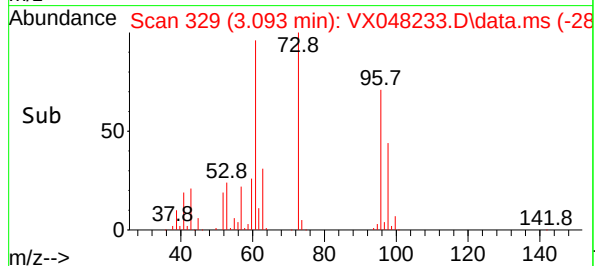
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 96 Resp: 139080
Ion Ratio Lower Upper
96 100
61 134.9 111.9 167.9
98 61.5 51.2 76.8

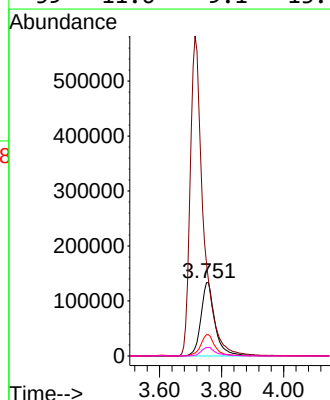
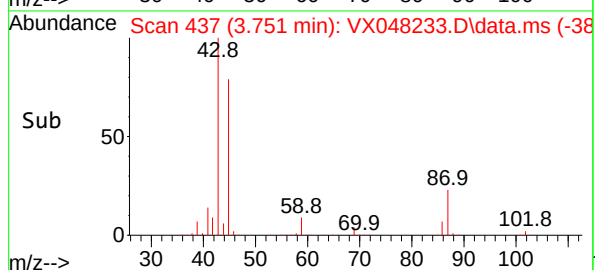
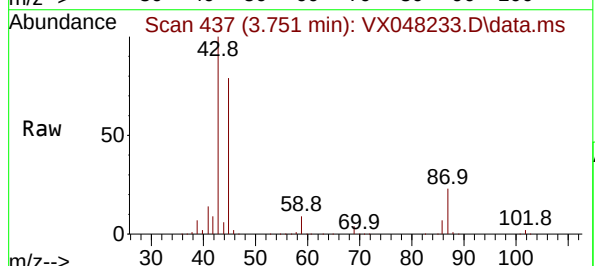
Manual Integrations
APPROVED

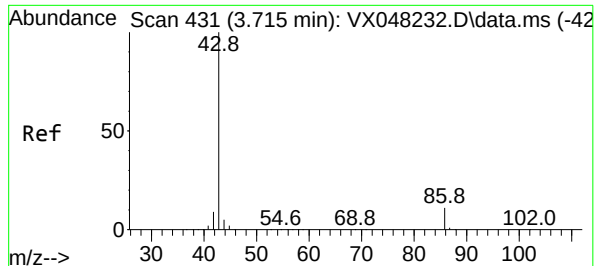
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#22
Diisopropyl ether
Concen: 87.566 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 45 Resp: 420126
Ion Ratio Lower Upper
45 100
43 126.6 89.8 134.8
87 29.0 20.6 31.0
59 11.6 9.1 13.7





#23

Vinyl Acetate

Concen: 480.325 ug/l

RT: 3.714 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 1723170

Ion Ratio Lower Upper

43 100

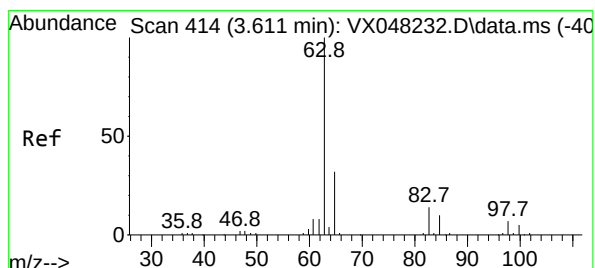
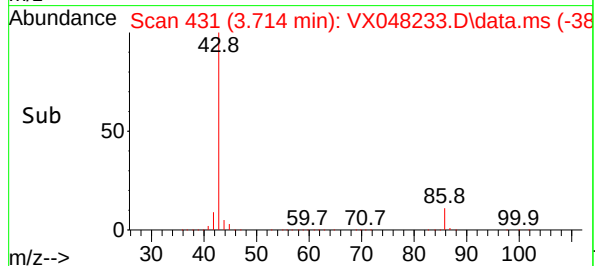
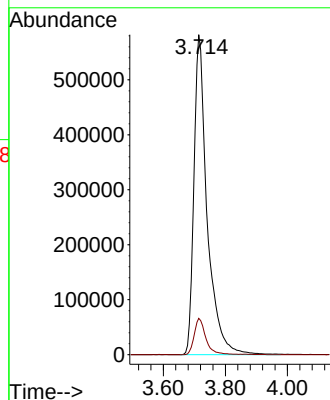
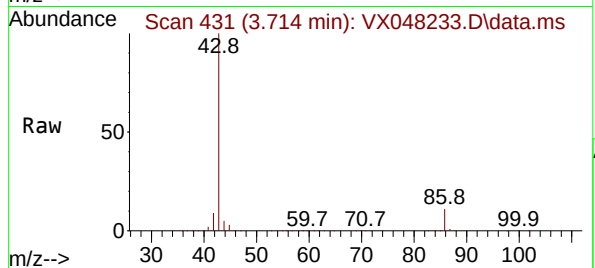
86 11.3 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#24

1,1-Dichloroethane

Concen: 91.164 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

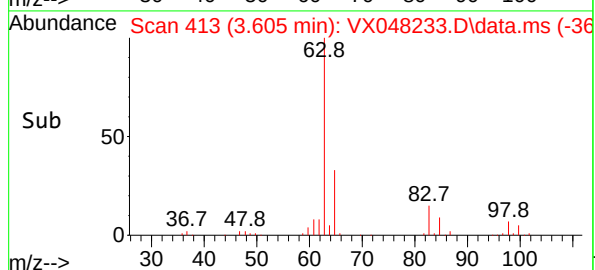
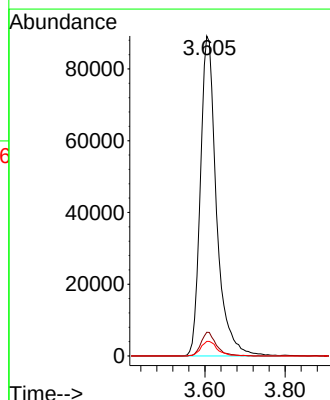
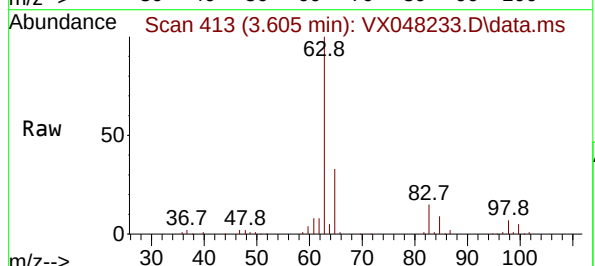
Tgt Ion: 63 Resp: 248141

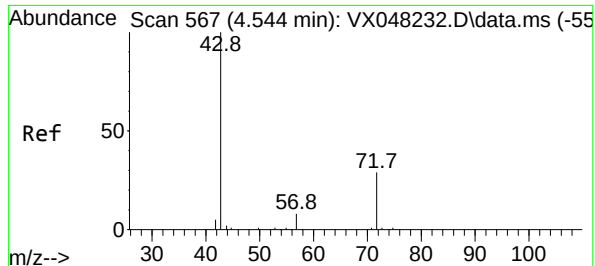
Ion Ratio Lower Upper

63 100

98 7.4 3.5 10.6

100 4.6 2.1 6.3





#25

2-Butanone

Concen: 488.753 ug/l

RT: 4.543 min Scan# 50

Delta R.T. 0.006 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 35374

Ion Ratio Lower Upper

43 100

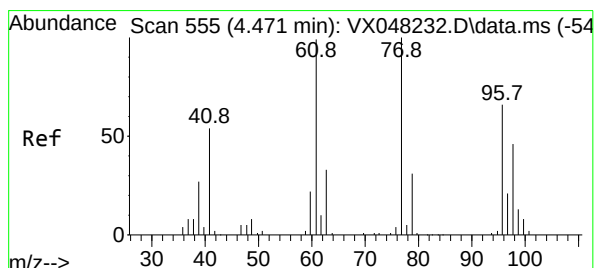
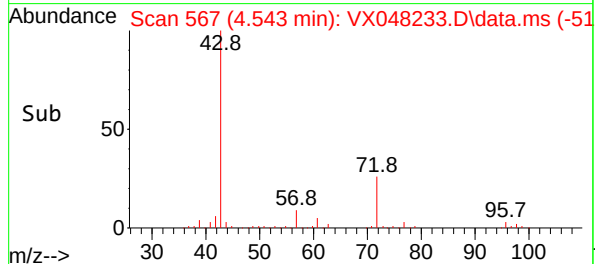
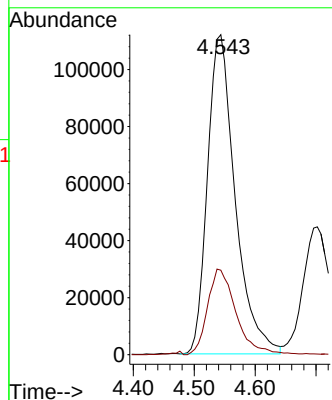
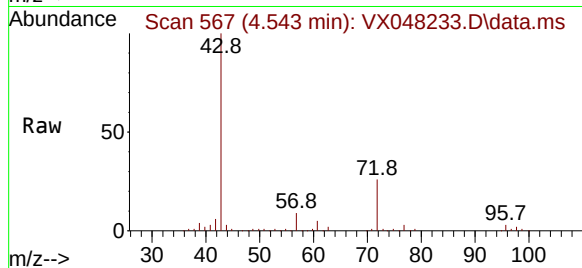
72 25.8 19.9 29.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#26

2,2-Dichloropropane

Concen: 98.275 ug/l

RT: 4.470 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX048233.D

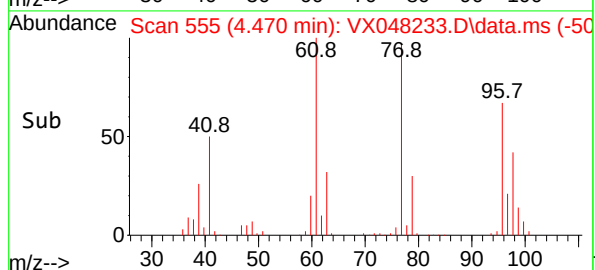
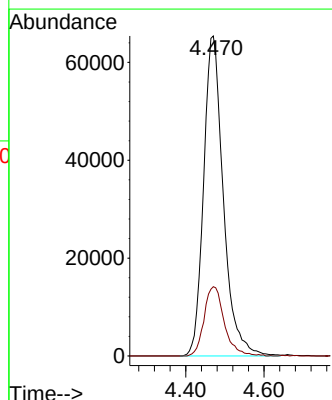
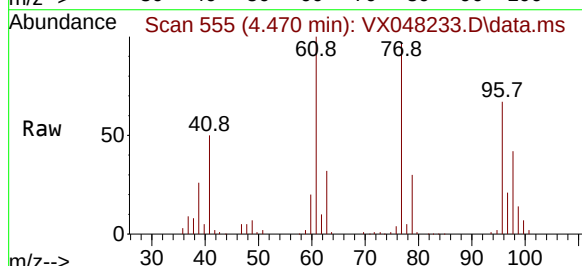
Acq: 20 Oct 2025 12:22

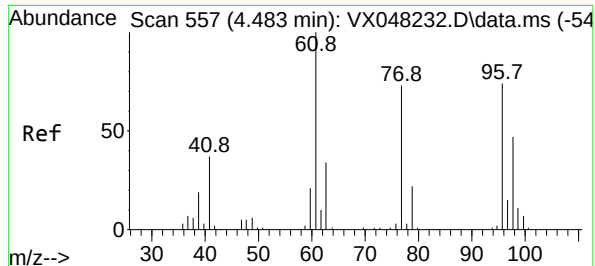
Tgt Ion: 77 Resp: 228643

Ion Ratio Lower Upper

77 100

97 22.2 11.1 33.3





#27

cis-1,2-Dichloroethene

Concen: 97.727 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 16344

Ion Ratio Lower Upper

96 100

61 143.1 0.0 294.2

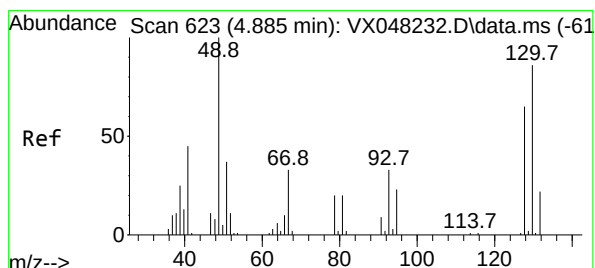
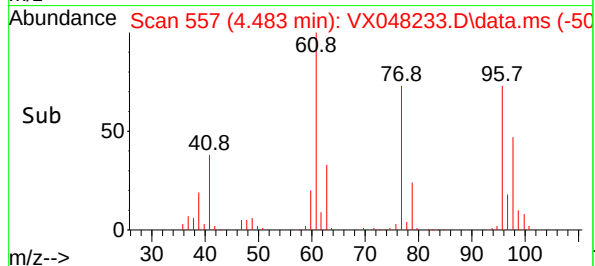
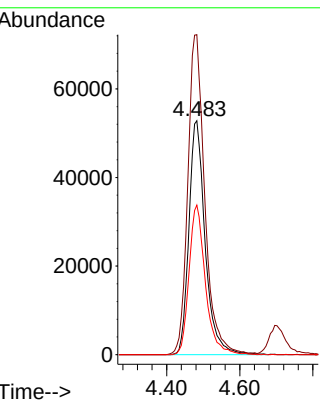
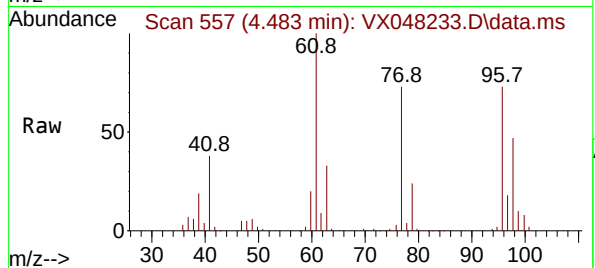
98 64.3 0.0 128.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#28

Bromochloromethane

Concen: 86.505 ug/l

RT: 4.885 min Scan# 623

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

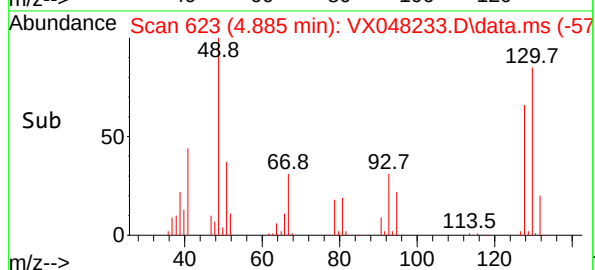
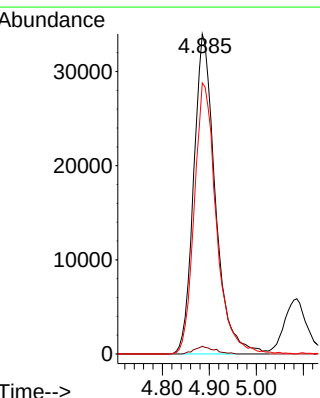
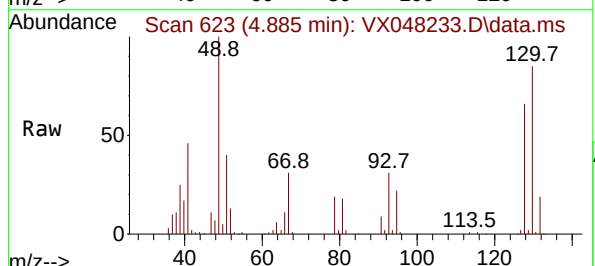
Tgt Ion: 49 Resp: 108536

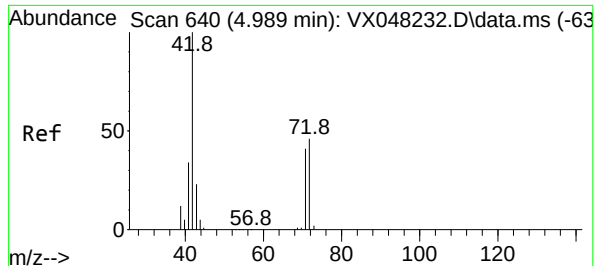
Ion Ratio Lower Upper

49 100

129 2.2 0.0 4.4

130 86.4 59.3 88.9





#29

Tetrahydrofuran

Concen: 509.471 ug/l

RT: 4.989 min Scan# 640

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 42 Resp: 21654

Ion Ratio Lower Upper

42 100

72 48.6 35.3 52.9

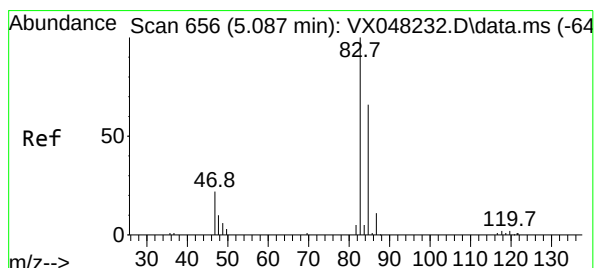
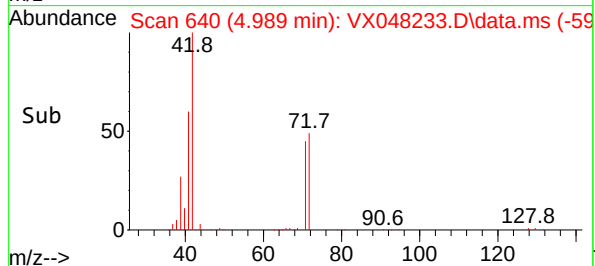
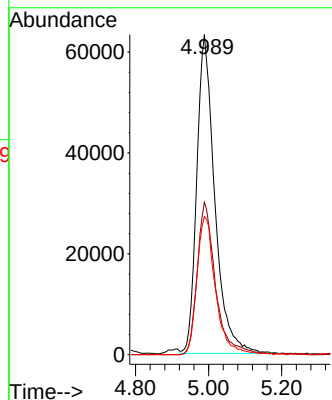
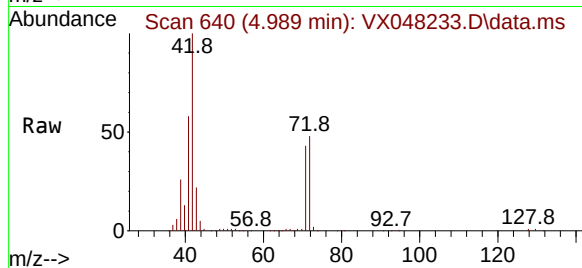
71 44.5 32.2 48.4

Manual Integrations

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Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#30

Chloroform

Concen: 92.461 ug/l

RT: 5.080 min Scan# 655

Delta R.T. -0.000 min

Lab File: VX048233.D

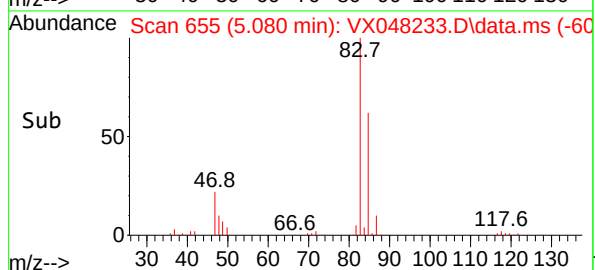
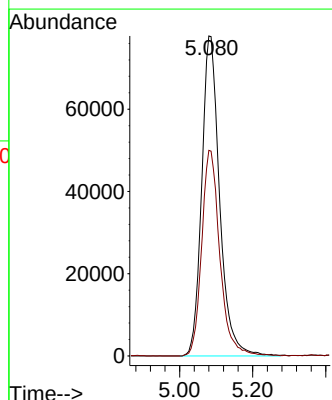
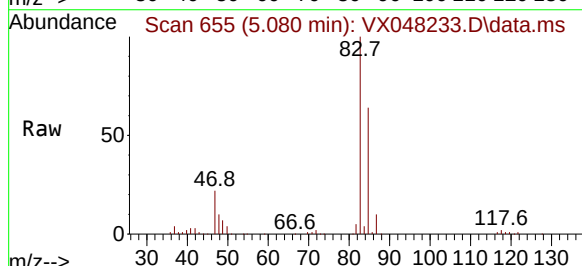
Acq: 20 Oct 2025 12:22

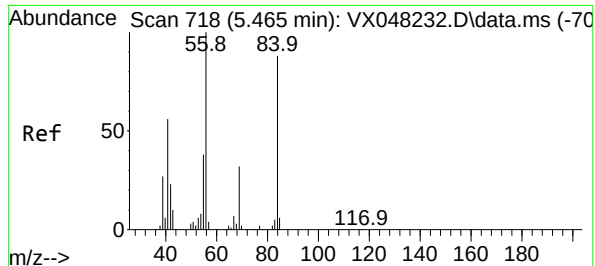
Tgt Ion: 83 Resp: 264966

Ion Ratio Lower Upper

83 100

85 64.3 50.1 75.1





#31

Cyclohexane

Concen: 97.754 ug/l

RT: 5.464 min Scan# 718

Delta R.T. 0.006 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 21771

Ion Ratio Lower Upper

56 100

69 32.1 23.0 34.6

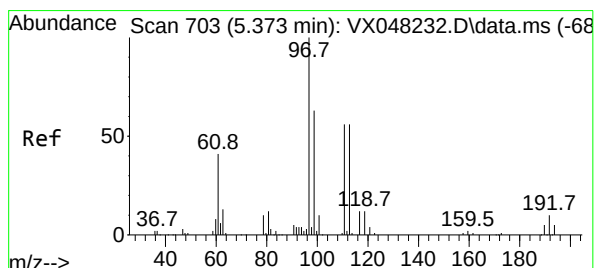
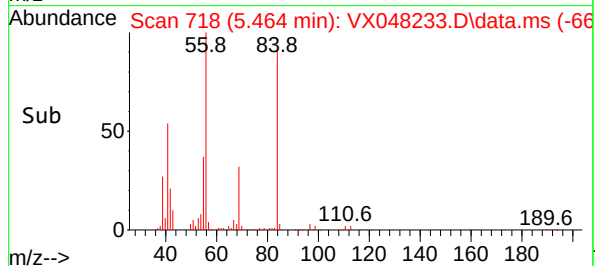
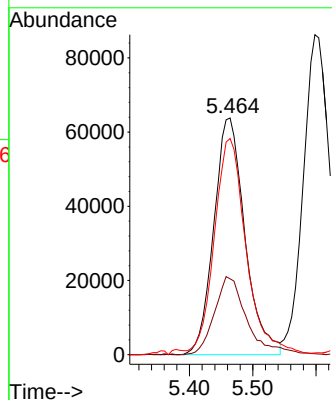
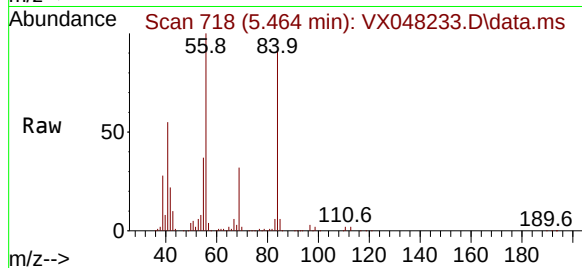
84 89.2 64.6 97.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#32

1,1,1-Trichloroethane

Concen: 105.334 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

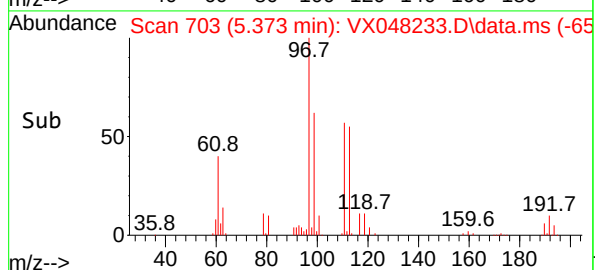
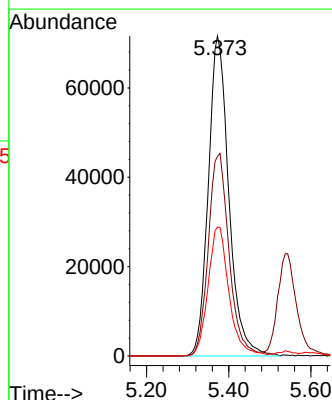
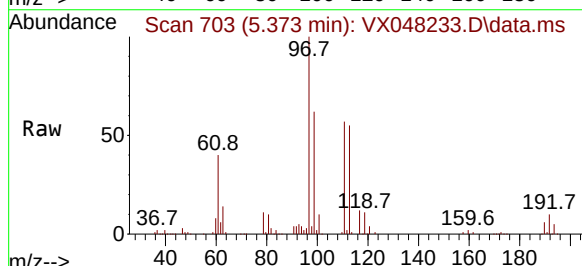
Tgt Ion: 97 Resp: 248018

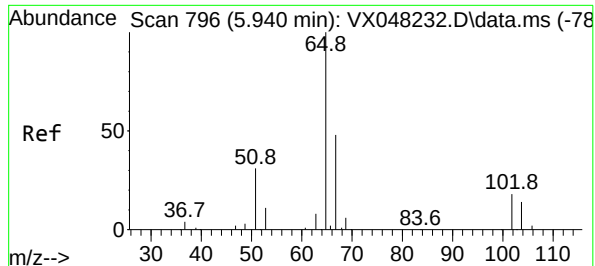
Ion Ratio Lower Upper

97 100

99 64.0 51.7 77.5

61 41.2 34.8 52.2





#33

1,2-Dichloroethane-d4

Concen: 89.060 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 65 Resp: 16218

Ion Ratio Lower Upper

65 100

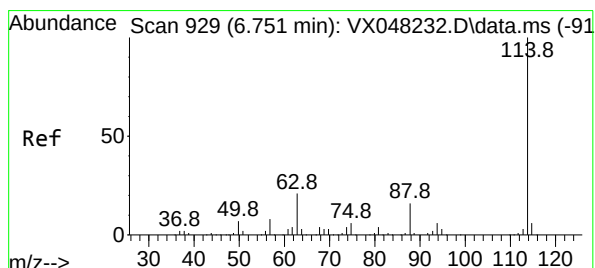
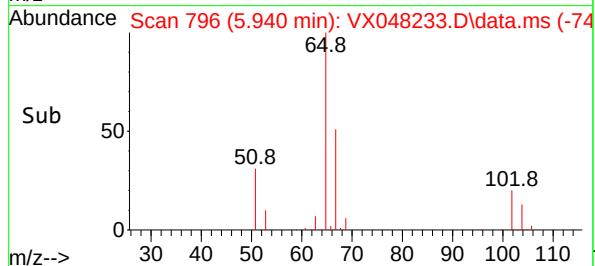
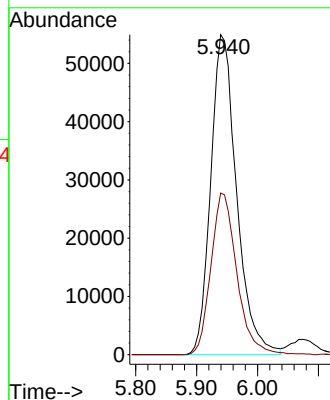
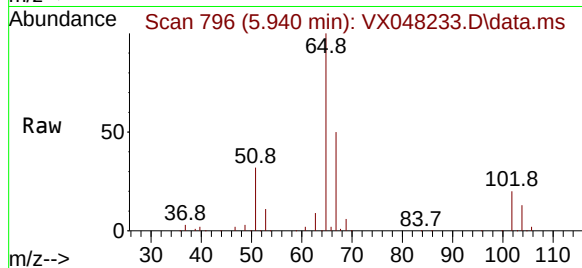
67 50.6 0.0 105.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.750 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

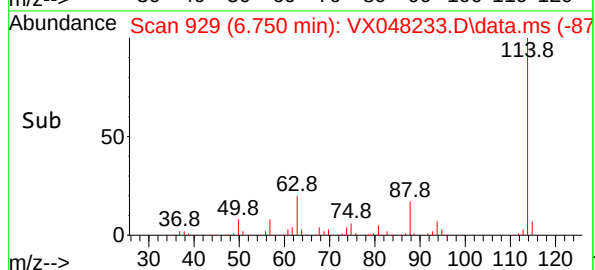
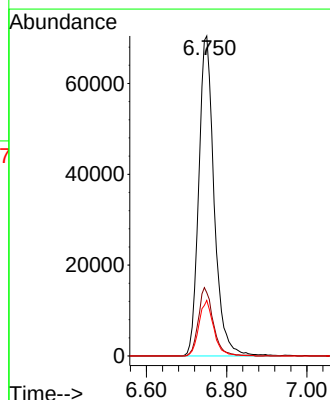
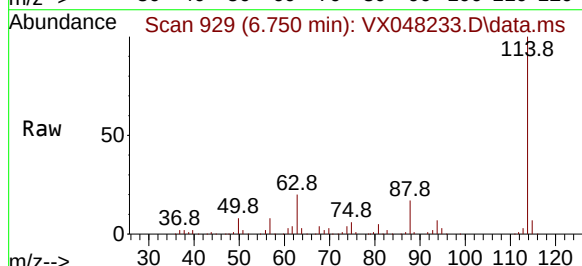
Tgt Ion:114 Resp: 187766

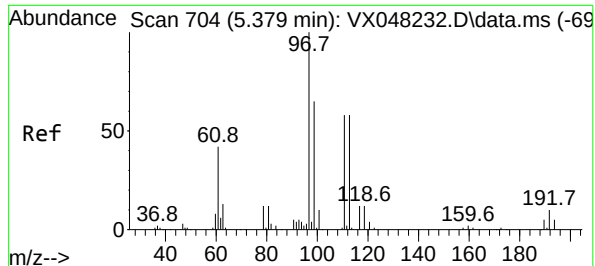
Ion Ratio Lower Upper

114 100

63 19.8 0.0 43.2

88 17.3 0.0 33.6





#35

Dibromofluoromethane

Concen: 99.697 ug/l

RT: 5.373 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:113 Resp: 129919

Ion Ratio Lower Upper

113 100

111 101.5 82.2 123.4

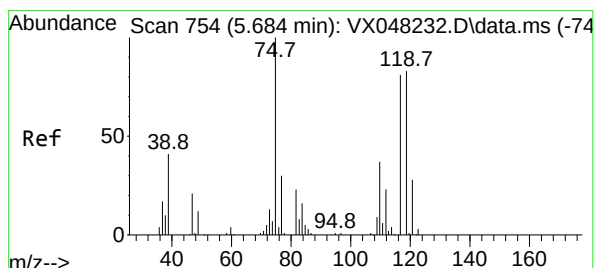
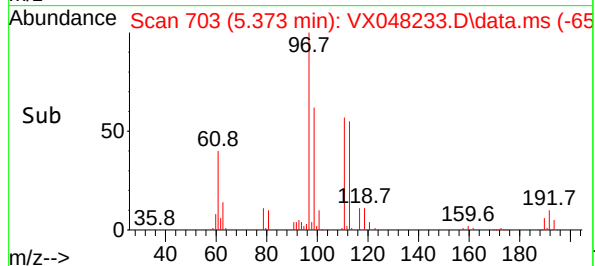
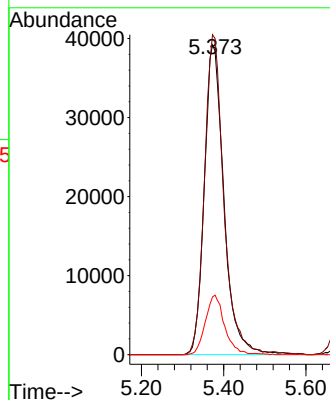
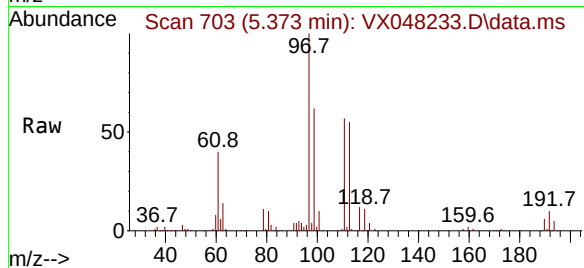
192 19.0 15.1 22.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#36

1,1-Dichloropropene

Concen: 100.194 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

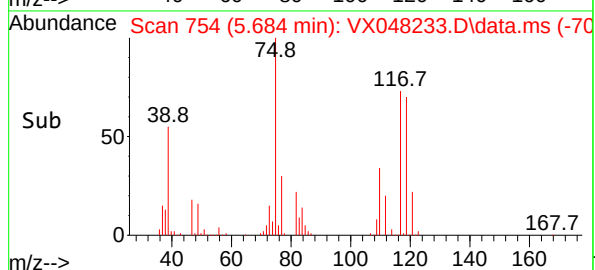
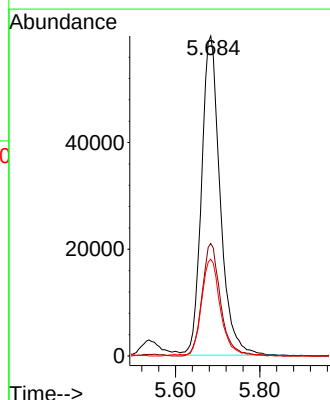
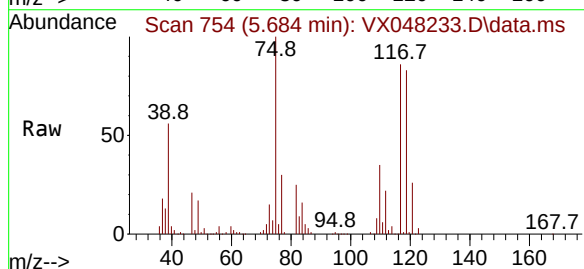
Tgt Ion: 75 Resp: 183932

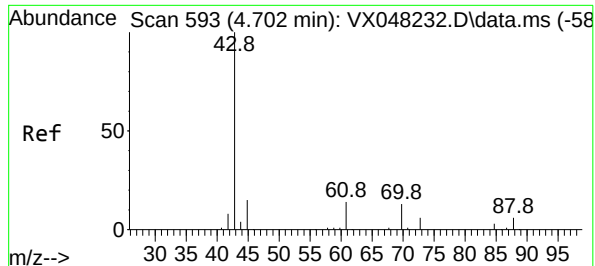
Ion Ratio Lower Upper

75 100

110 35.1 17.7 53.1

77 30.9 24.3 36.5





#37

Ethyl Acetate

Concen: 104.863 ug/l

RT: 4.702 min Scan# 593

Delta R.T. 0.006 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

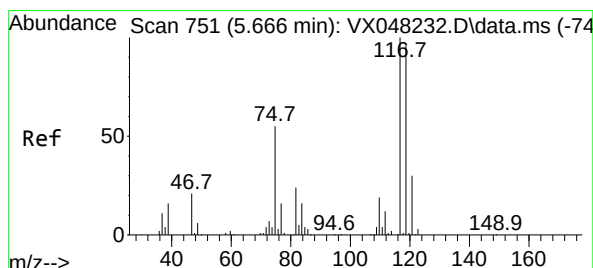
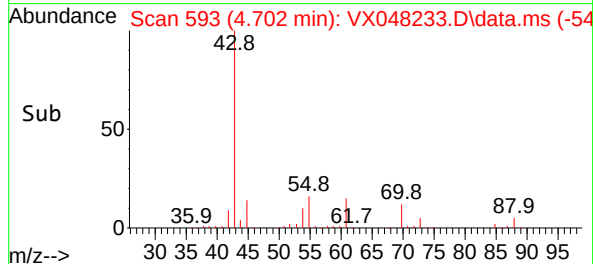
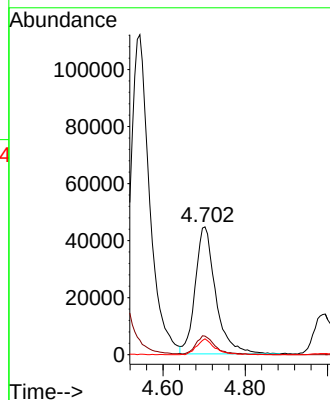
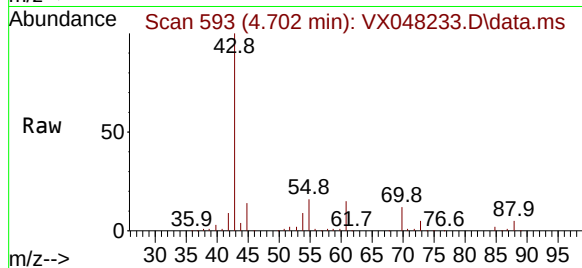
VSTDICC100

Tgt Ion:	43	Resp:	15384
Ion	Ratio	Lower	Upper
43	100		
61	13.3	10.6	15.8
70	10.7	7.8	11.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#38

Carbon Tetrachloride

Concen: 107.719 ug/l

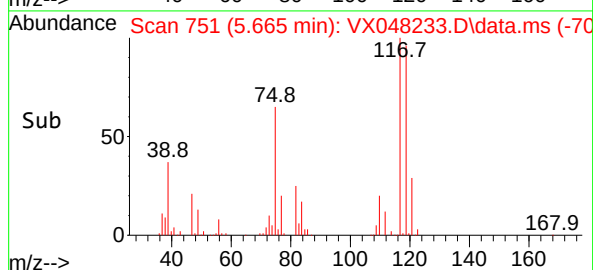
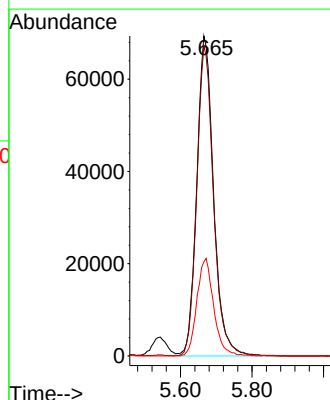
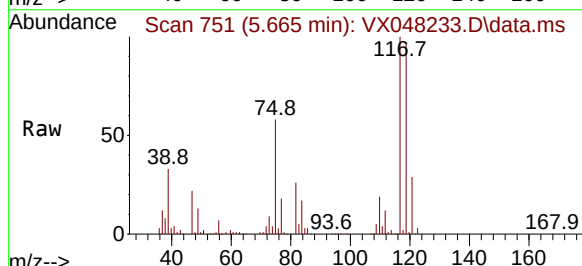
RT: 5.665 min Scan# 751

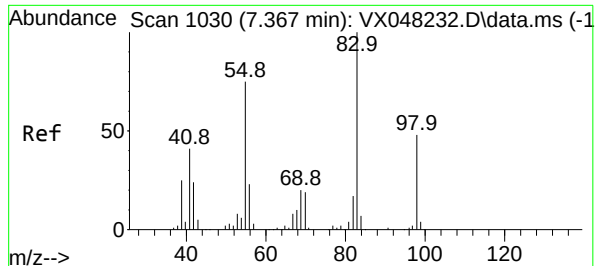
Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Tgt Ion:	117	Resp:	226976
Ion	Ratio	Lower	Upper
117	100		
119	96.9	77.2	115.8
121	29.4	24.8	37.2





#39

Methylcyclohexane

Concen: 113.637 ug/l

RT: 7.366 min Scan# 1030

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 235208

Ion Ratio Lower Upper

83 100

55 76.8 66.2 99.2

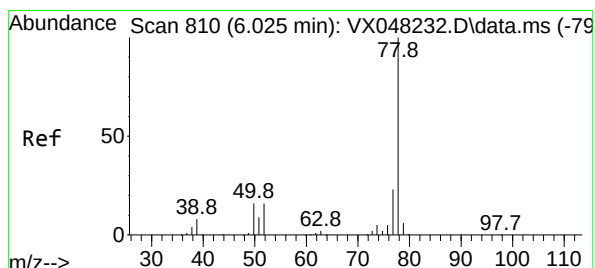
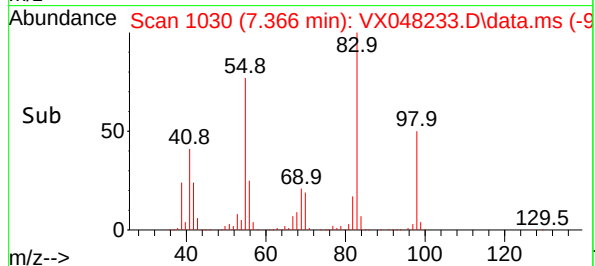
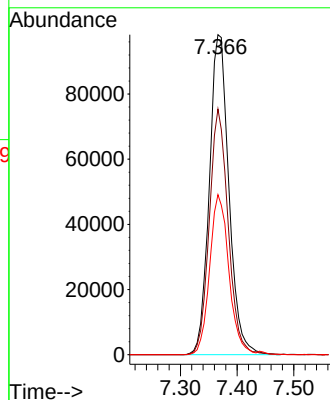
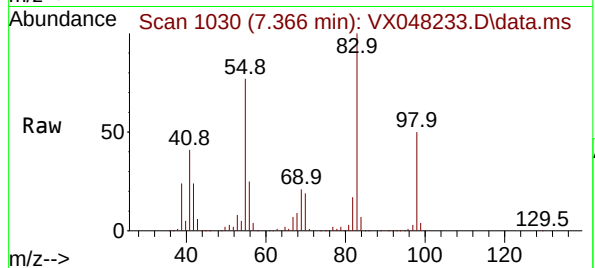
98 50.0 38.9 58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#40

Benzene

Concen: 98.221 ug/l

RT: 6.025 min Scan# 810

Delta R.T. -0.000 min

Lab File: VX048233.D

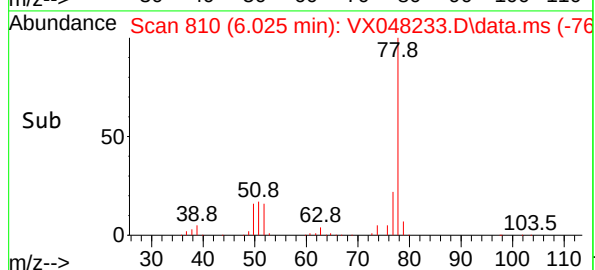
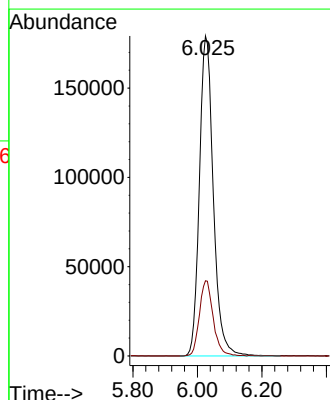
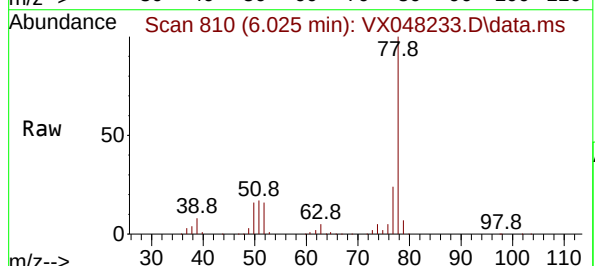
Acq: 20 Oct 2025 12:22

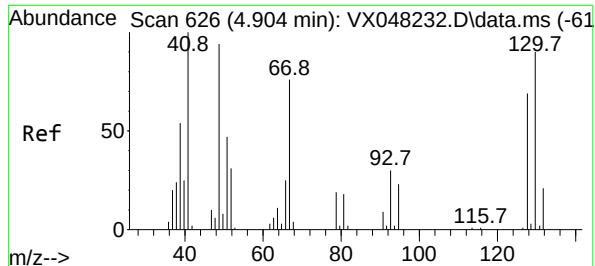
Tgt Ion: 78 Resp: 535407

Ion Ratio Lower Upper

78 100

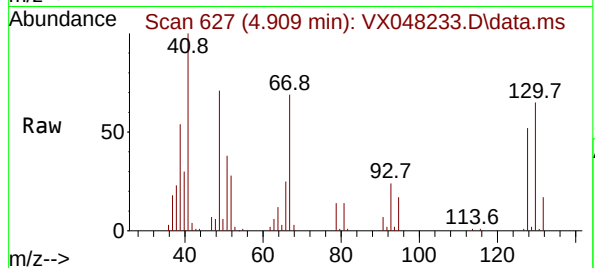
77 23.5 19.3 28.9





#41
Methacrylonitrile
Concen: 106.641 ug/l
RT: 4.909 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

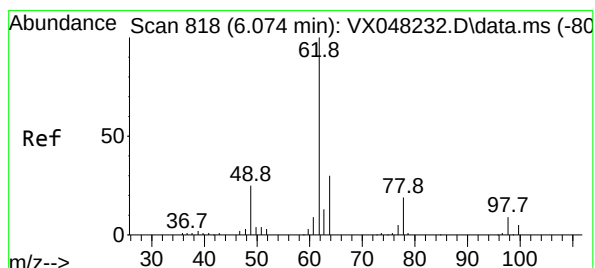
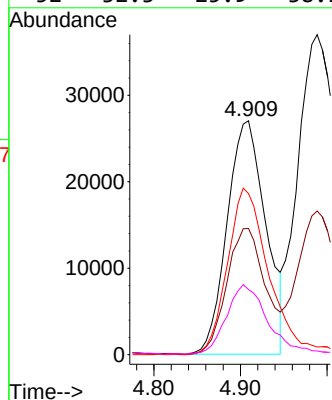
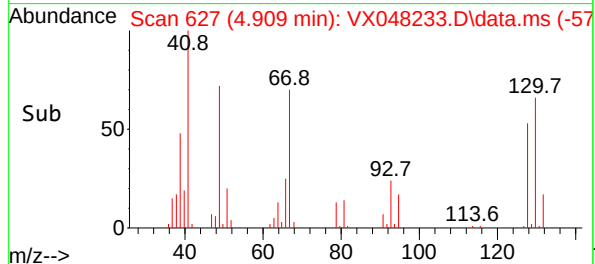
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 41 Resp: 83790
Ion Ratio Lower Upper
41 100
39 54.4 44.0 66.0
67 77.7 58.7 88.1
52 32.3 25.9 38.9

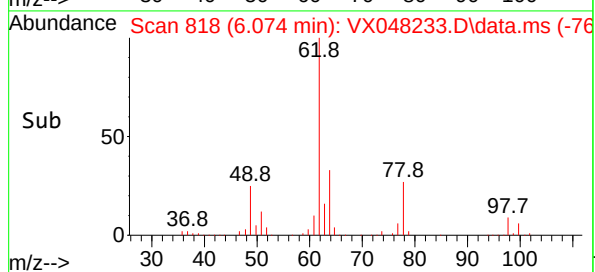
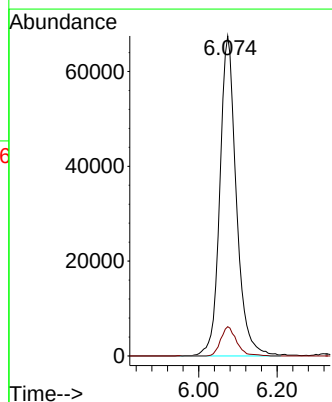
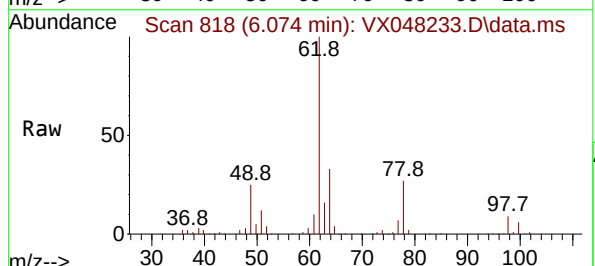
Manual Integrations
APPROVED

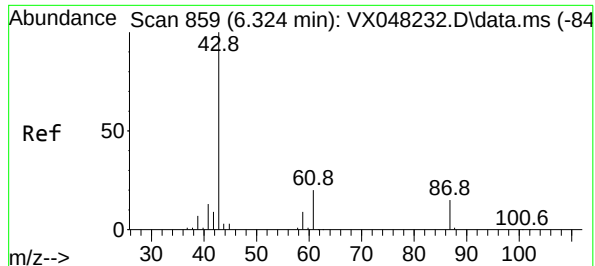
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#42
1,2-Dichloroethane
Concen: 101.562 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 62 Resp: 198348
Ion Ratio Lower Upper
62 100
98 8.8 0.0 17.2





#43

Isopropyl Acetate

Concen: 103.976 ug/l

RT: 6.324 min Scan# 859

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

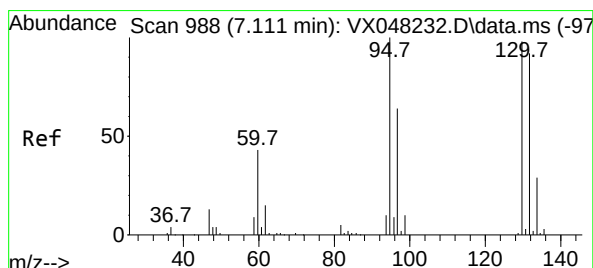
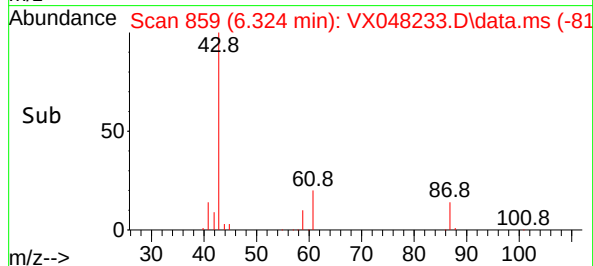
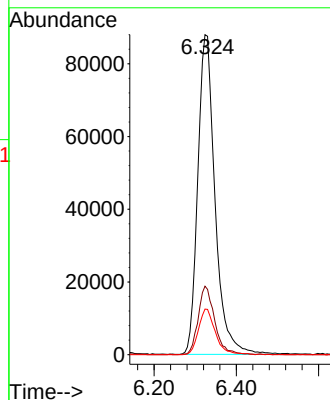
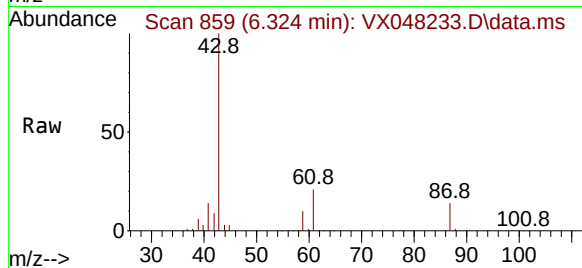
VSTDICC100

Tgt Ion:	43	Resp:	25606
Ion	Ratio	Lower	Upper
43	100		
61	20.5	14.9	22.3
87	14.0	9.4	14.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#44

Trichloroethene

Concen: 103.931 ug/l

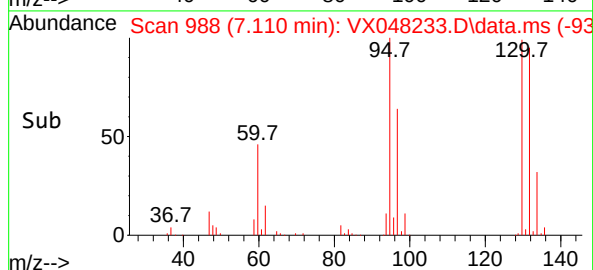
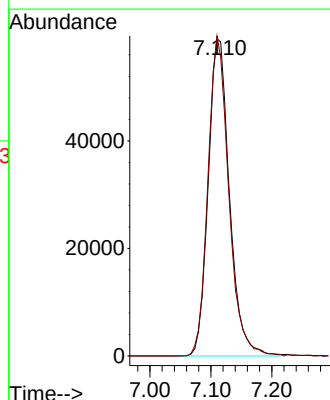
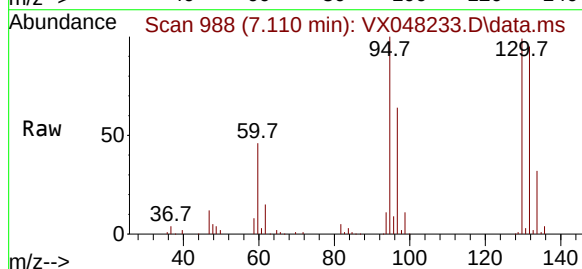
RT: 7.110 min Scan# 988

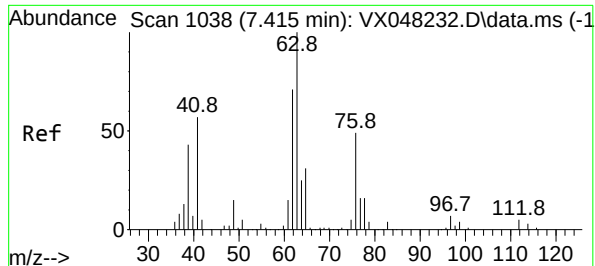
Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Tgt Ion:	130	Resp:	142779
Ion	Ratio	Lower	Upper
130	100		
95	100.8	0.0	200.6





#45

1,2-Dichloropropane

Concen: 94.368 ug/l

RT: 7.415 min Scan# 1038

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 63 Resp: 13018

Ion Ratio Lower Upper

63 100

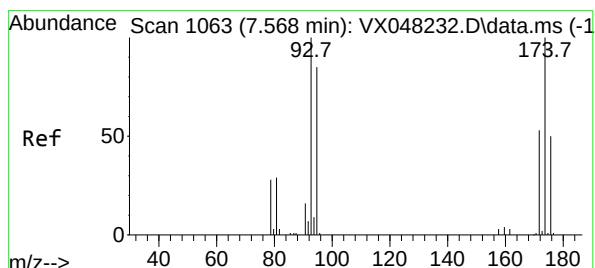
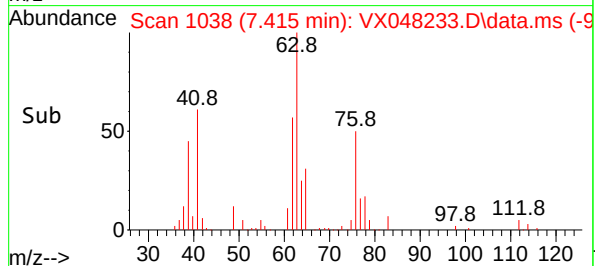
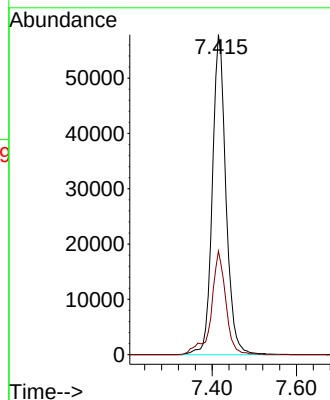
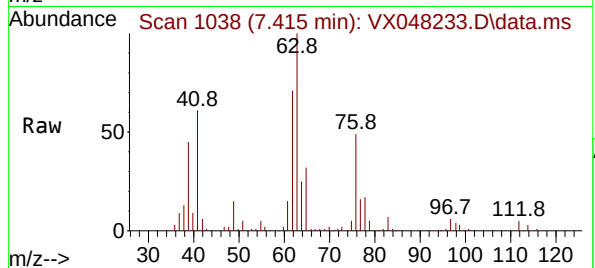
65 32.4 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#46

Dibromomethane

Concen: 98.835 ug/l

RT: 7.567 min Scan# 1063

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

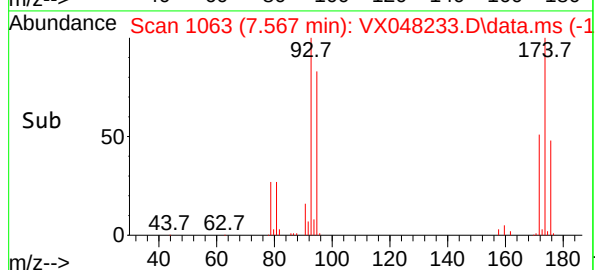
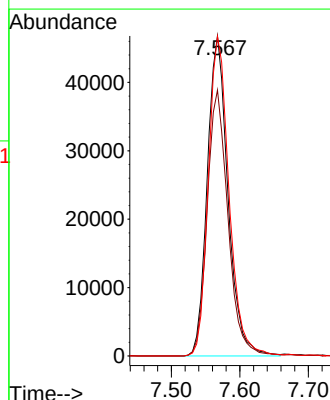
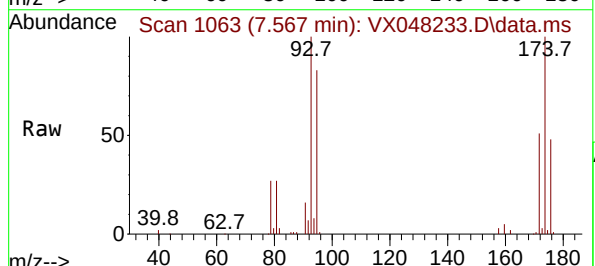
Tgt Ion: 93 Resp: 98105

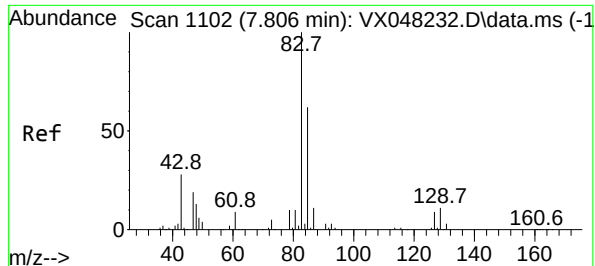
Ion Ratio Lower Upper

93 100

95 83.4 65.9 98.9

174 100.3 71.7 107.5





#47

Bromodichloromethane

Concen: 100.358 ug/l

RT: 7.805 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

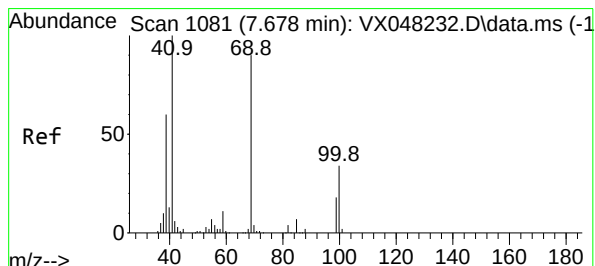
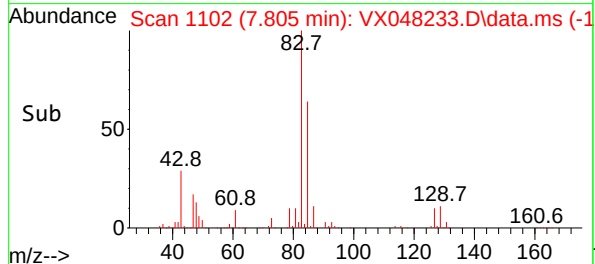
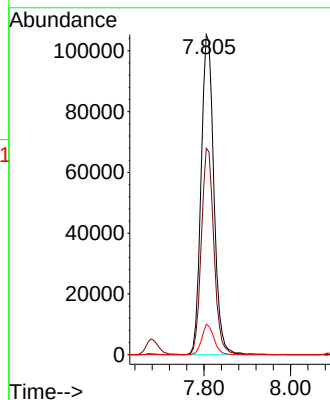
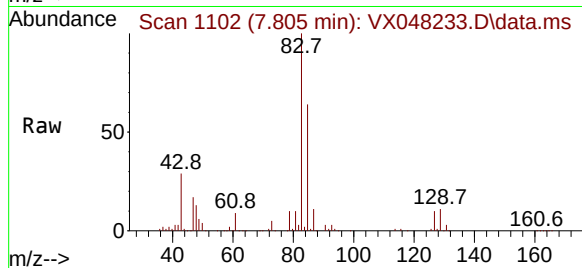
VSTDICC100

Tgt Ion:	83	Resp:	21530
Ion	Ratio	Lower	Upper
83	100		
85	64.4	52.2	78.4
127	9.5	7.3	10.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#48

Methyl methacrylate

Concen: 104.272 ug/l

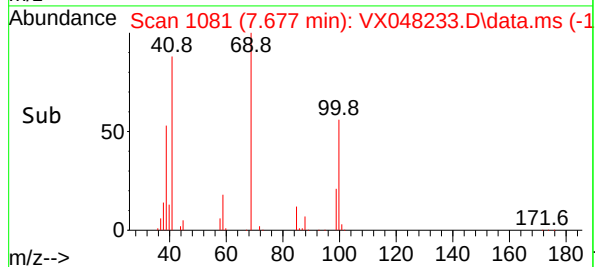
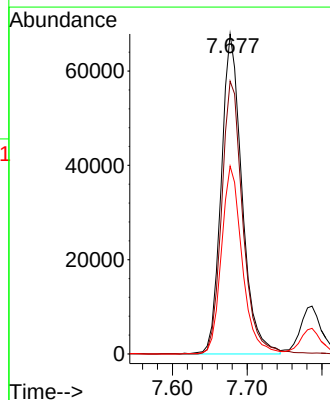
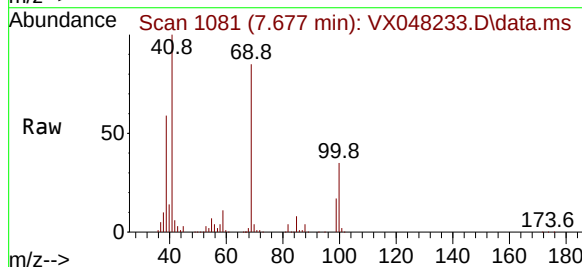
RT: 7.677 min Scan# 1081

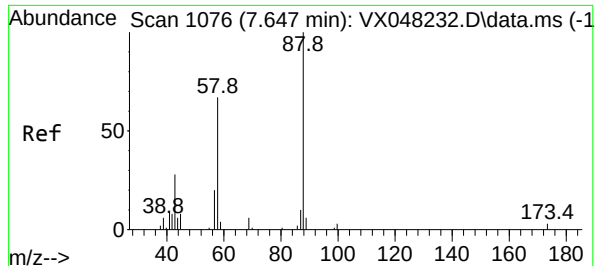
Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Tgt Ion:	41	Resp:	131454
Ion	Ratio	Lower	Upper
41	100		
69	86.8	63.4	95.0
39	58.7	47.1	70.7





#49

1,4-Dioxane

Concen: 3169.845 ug/l

RT: 7.647 min Scan# 1076

Delta R.T. 0.006 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

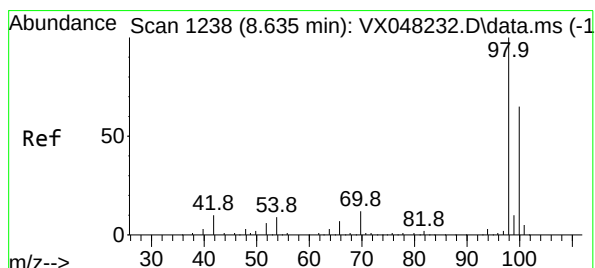
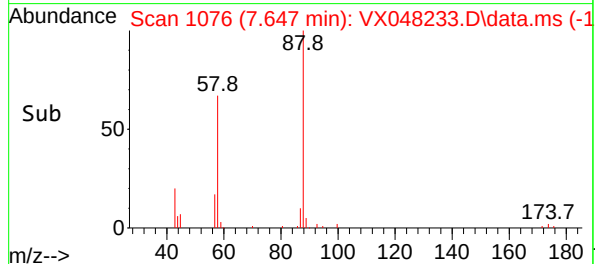
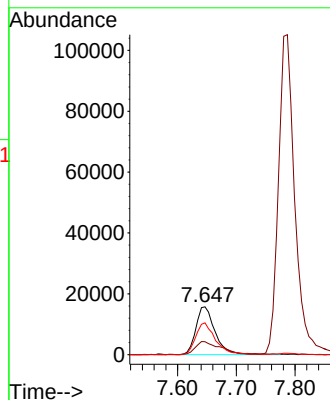
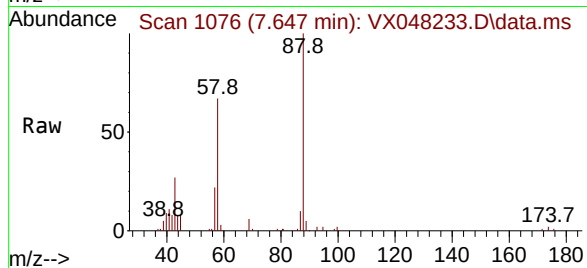
VSTDICC100

Tgt Ion:	88	Resp:	35972
Ion	Ratio	Lower	Upper
88	100		
43	36.6	35.0	52.4
58	68.4	61.9	92.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#50

Toluene-d8

Concen: 95.629 ug/l

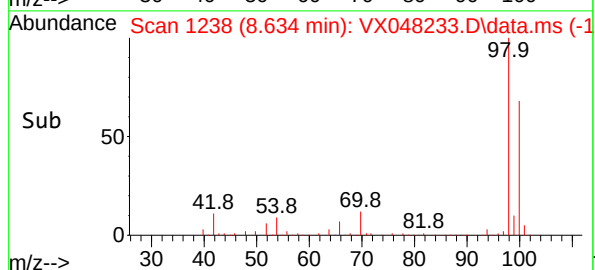
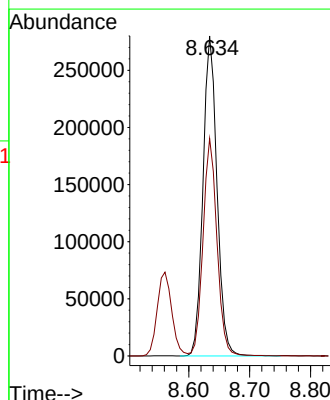
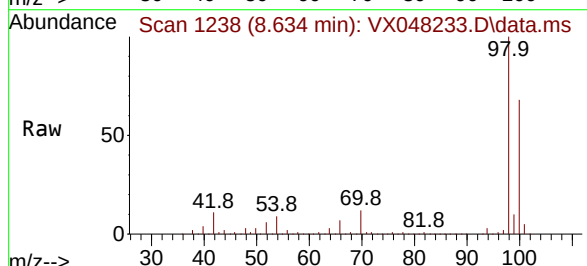
RT: 8.634 min Scan# 1238

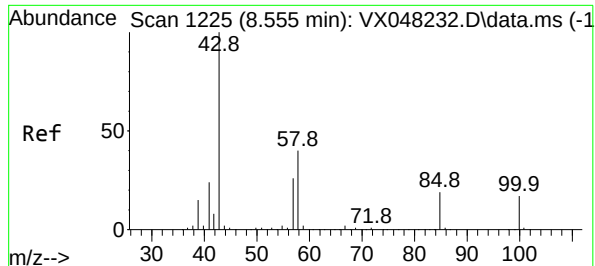
Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Tgt Ion:	98	Resp:	448948
Ion	Ratio	Lower	Upper
98	100		
100	67.3	53.0	79.4





#51

4-Methyl-2-Pentanone

Concen: 526.103 ug/l

RT: 8.561 min Scan# 1226

Delta R.T. 0.006 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 720980

Ion Ratio Lower Upper

43 100

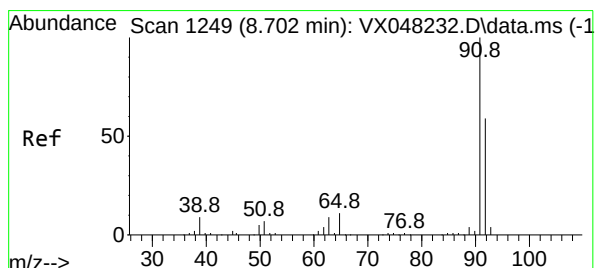
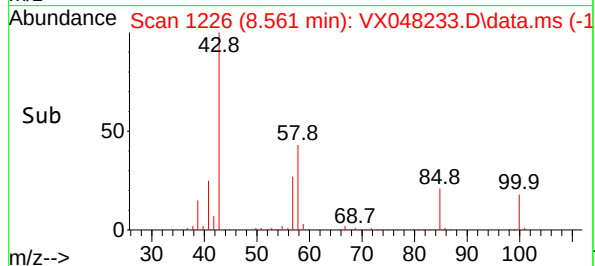
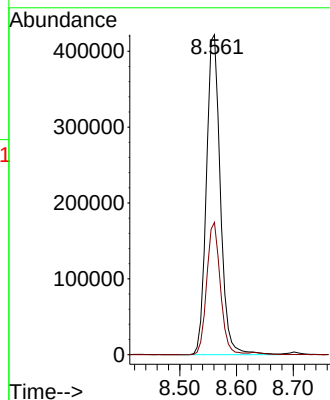
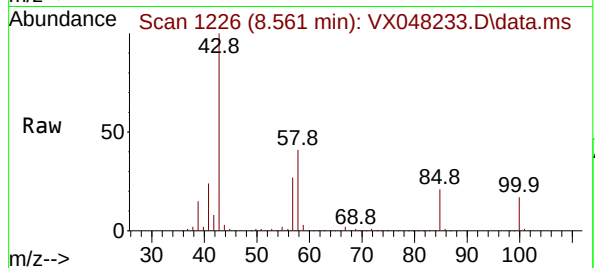
58 40.4 29.5 44.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#52

Toluene

Concen: 104.263 ug/l

RT: 8.701 min Scan# 1249

Delta R.T. -0.000 min

Lab File: VX048233.D

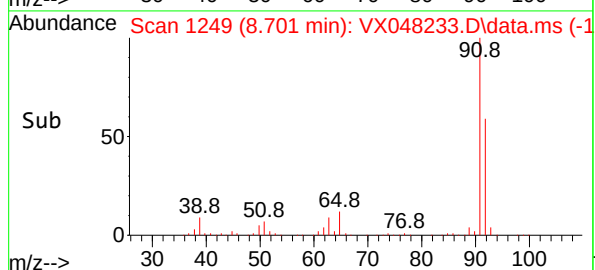
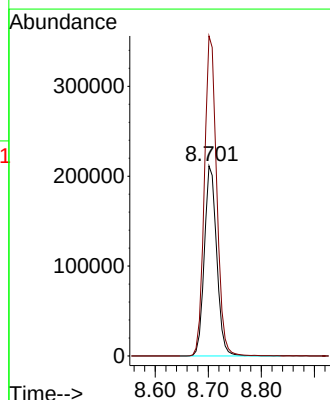
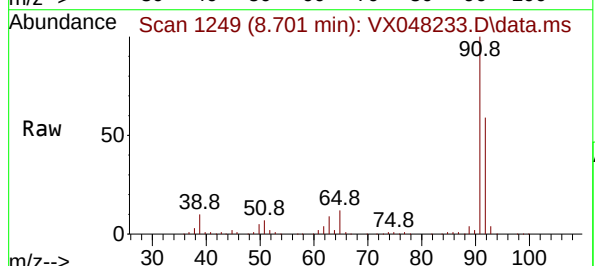
Acq: 20 Oct 2025 12:22

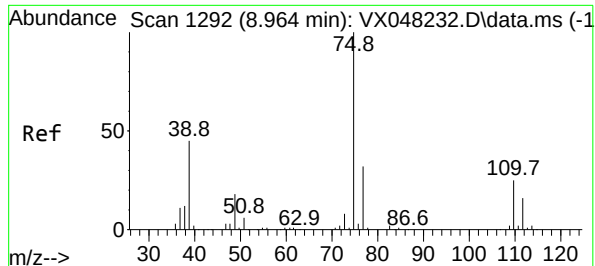
Tgt Ion: 92 Resp: 341597

Ion Ratio Lower Upper

92 100

91 168.2 136.1 204.1





#53

t-1,3-Dichloropropene

Concen: 107.341 ug/l

RT: 8.963 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 75 Resp: 215730

Ion Ratio Lower Upper

75 100

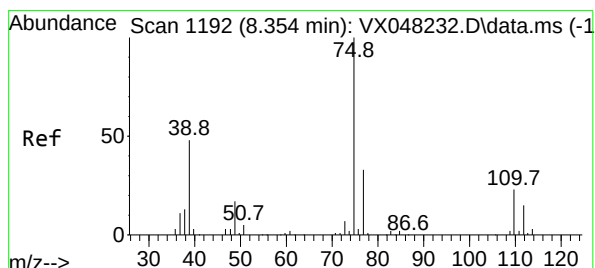
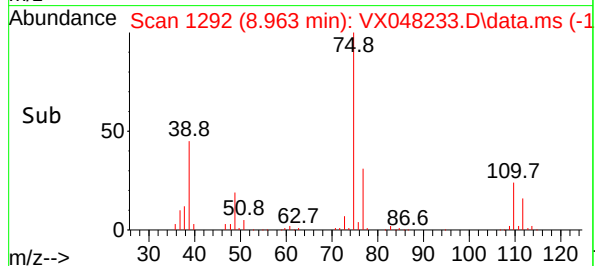
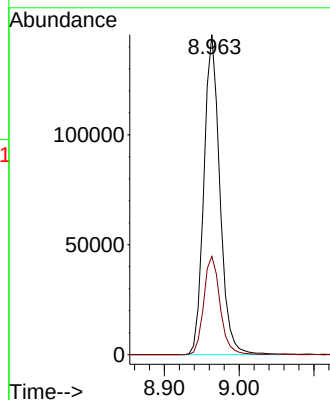
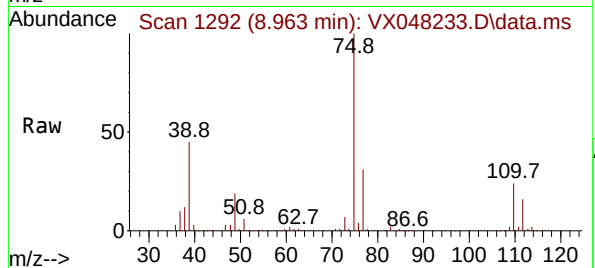
77 30.7 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#54

cis-1,3-Dichloropropene

Concen: 105.465 ug/l

RT: 8.354 min Scan# 1192

Delta R.T. 0.006 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

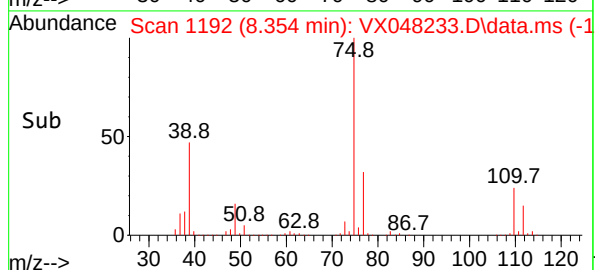
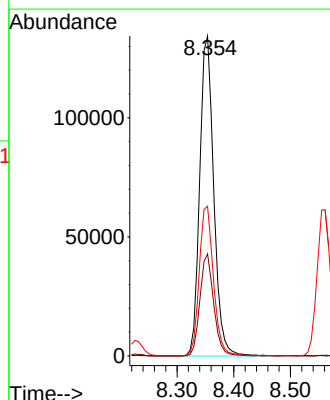
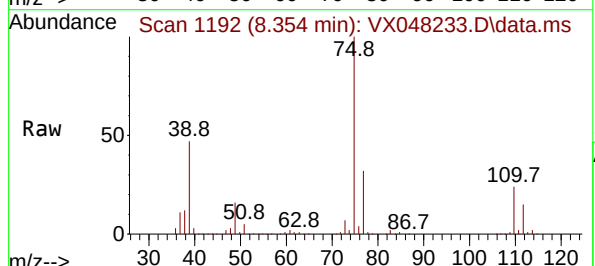
Tgt Ion: 75 Resp: 231037

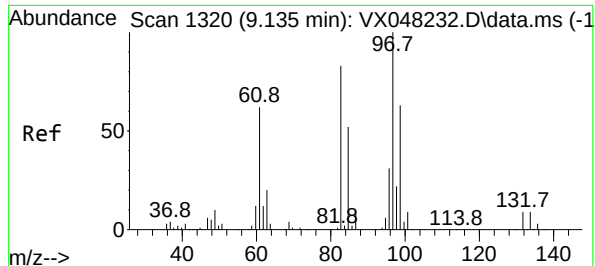
Ion Ratio Lower Upper

75 100

77 31.9 24.9 37.3

39 46.7 42.6 64.0





#55

1,1,2-Trichloroethane

Concen: 102.180 ug/l

RT: 9.134 min Scan# 1320

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 97 Resp: 124910

Ion Ratio Lower Upper

97 100

83 85.5 70.6 105.8

85 55.7 45.0 67.6

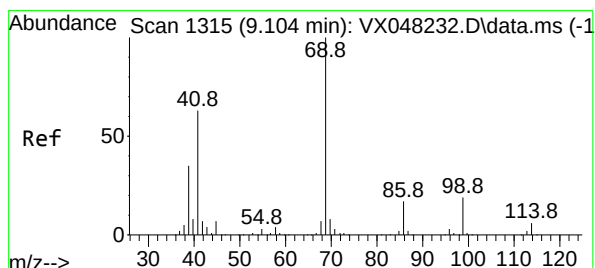
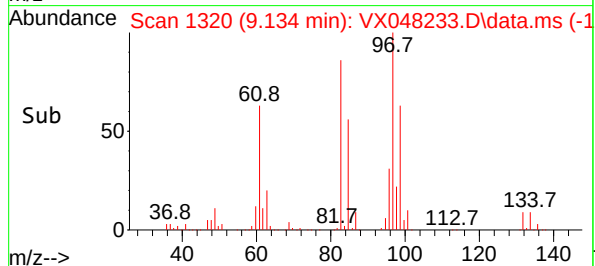
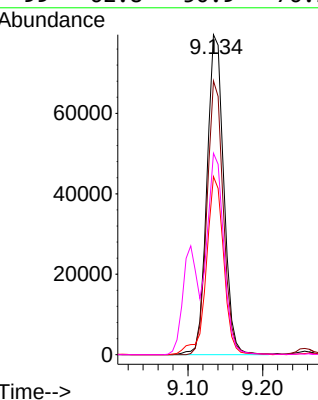
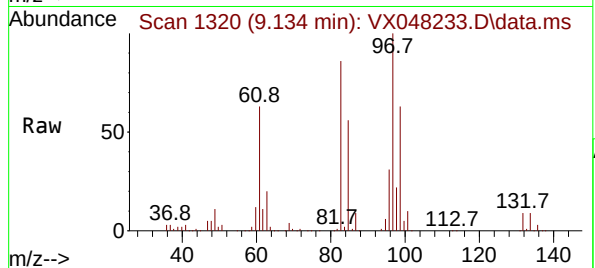
99 62.8 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#56

Ethyl methacrylate

Concen: 118.305 ug/l

RT: 9.104 min Scan# 1315

Delta R.T. 0.006 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

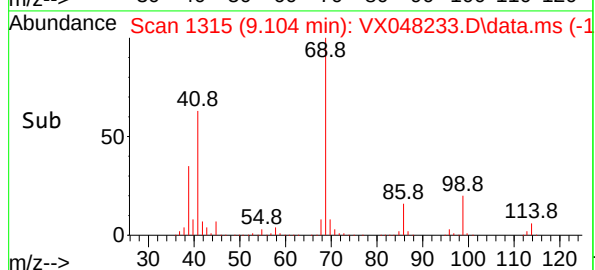
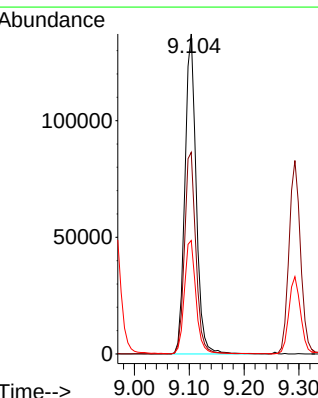
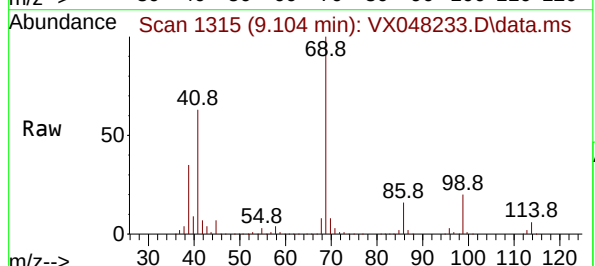
Tgt Ion: 69 Resp: 196699

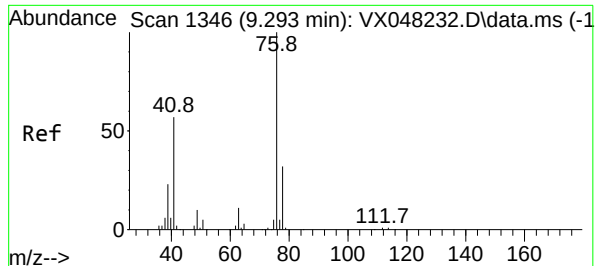
Ion Ratio Lower Upper

69 100

41 64.0 56.0 84.0

39 36.7 31.6 47.4





#57

1,3-Dichloropropane

Concen: 100.598 ug/l

RT: 9.293 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 21485

Ion Ratio Lower Upper

76 100

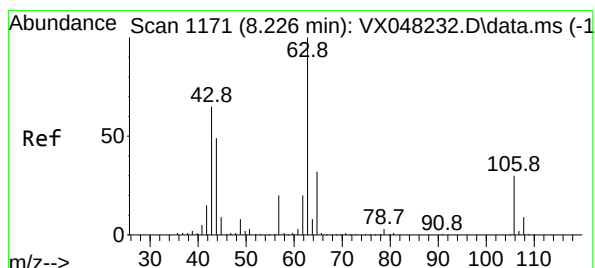
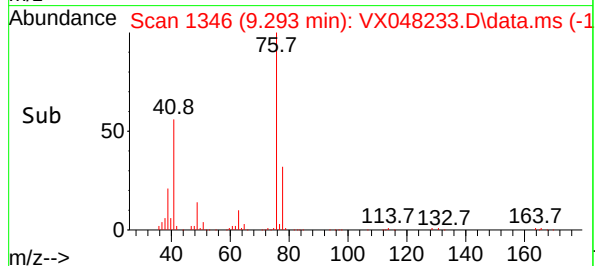
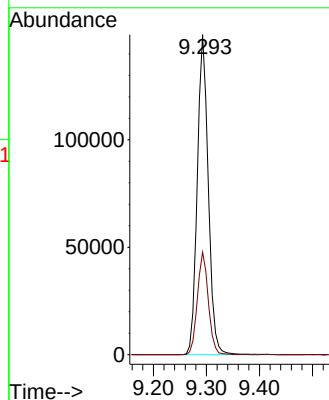
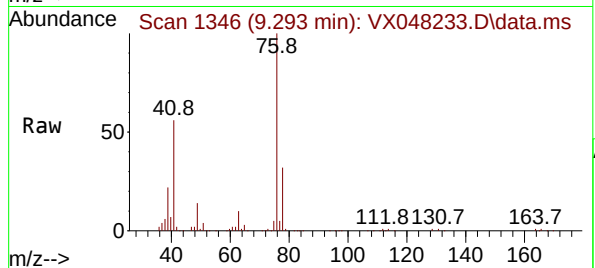
78 31.9 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#58

2-Chloroethyl Vinyl ether

Concen: 592.044 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. -0.000 min

Lab File: VX048233.D

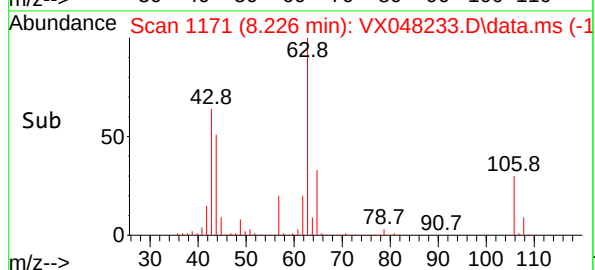
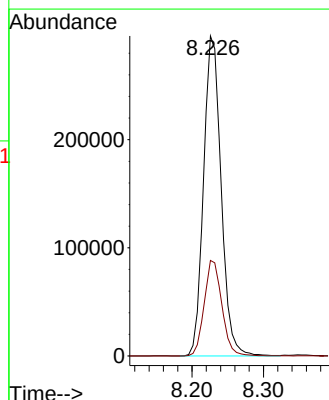
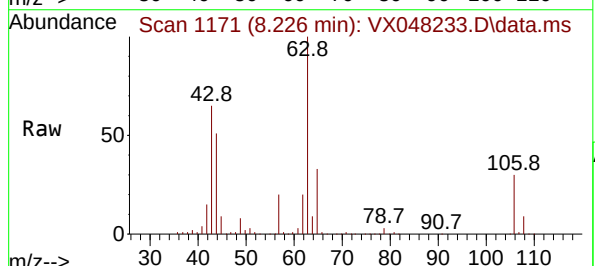
Acq: 20 Oct 2025 12:22

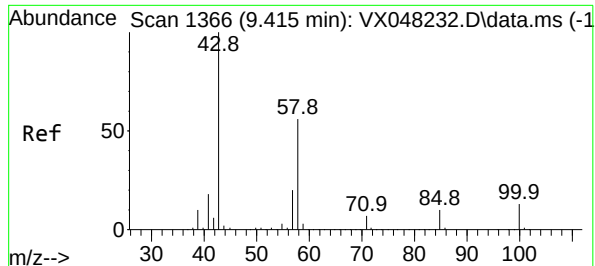
Tgt Ion: 63 Resp: 505448

Ion Ratio Lower Upper

63 100

106 30.0 22.2 33.2





#59

2-Hexanone

Concen: 531.416 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 509398

Ion Ratio Lower Upper

43 100

58 55.8

26.3

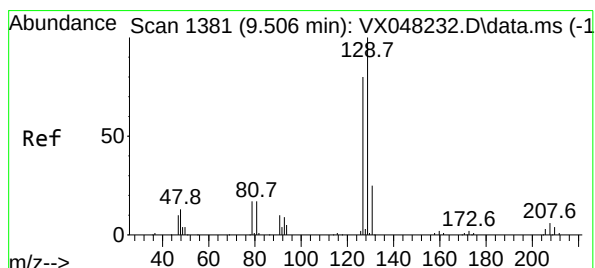
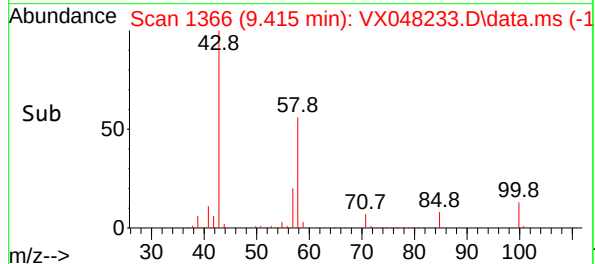
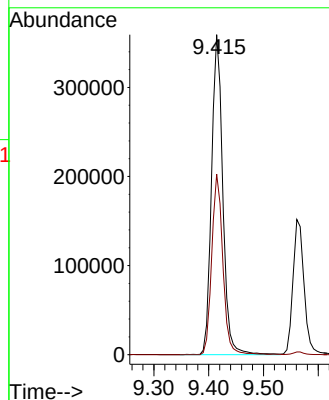
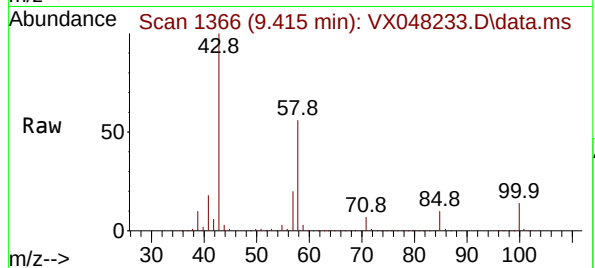
78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#60

Dibromochloromethane

Concen: 108.598 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Tgt Ion:129 Resp: 166167

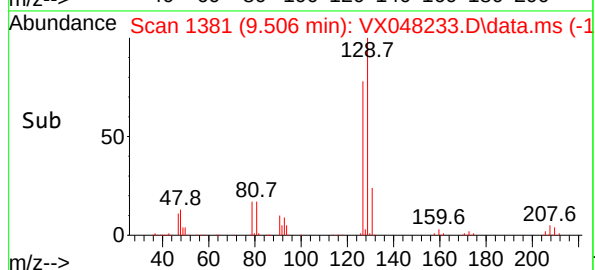
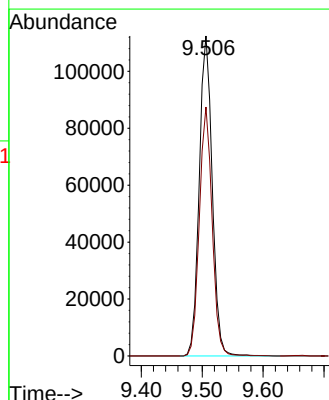
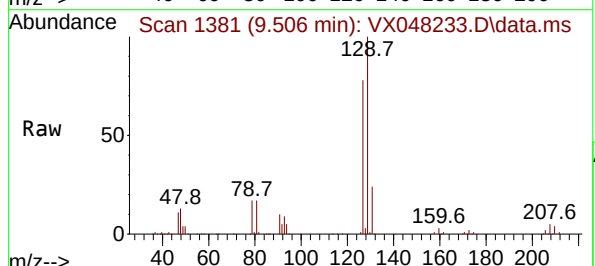
Ion Ratio Lower Upper

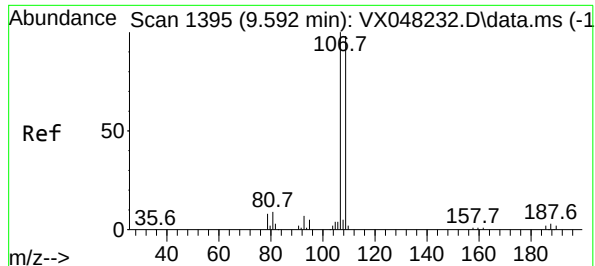
129 100

127 76.9

38.6

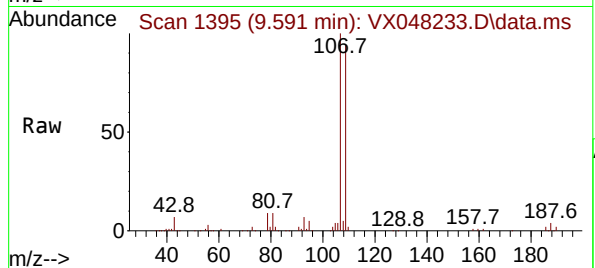
115.7





#61
1,2-Dibromoethane
Concen: 107.431 ug/l
RT: 9.591 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

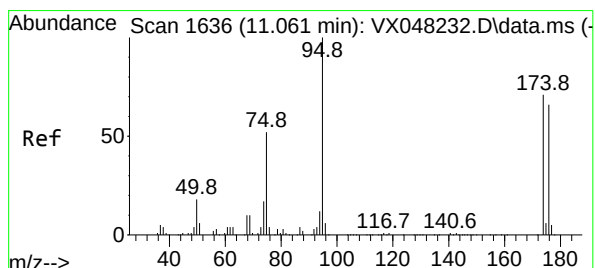
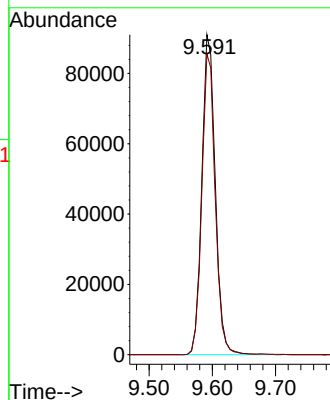
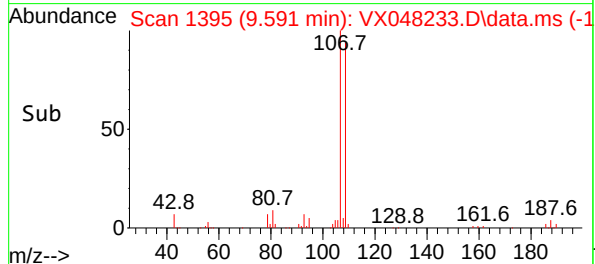
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:107 Resp: 134662
Ion Ratio Lower Upper
107 100
109 93.7 77.0 115.4

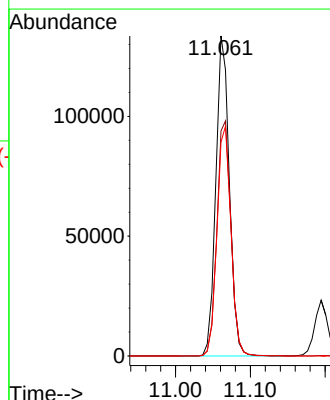
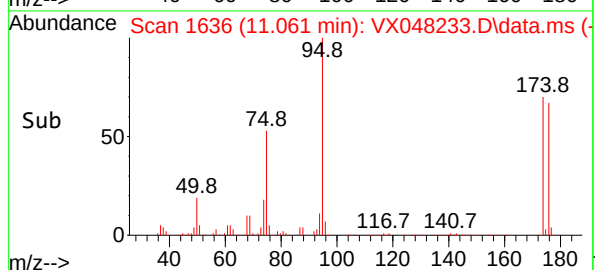
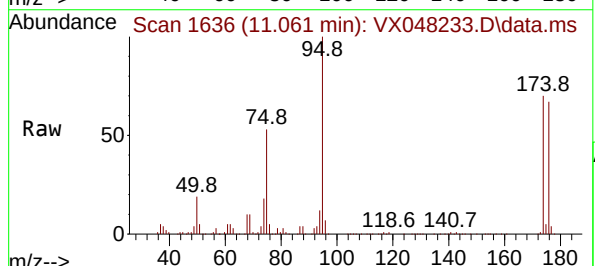
Manual Integrations
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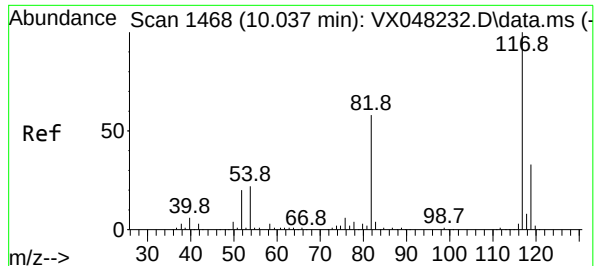
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#62
4-Bromofluorobenzene
Concen: 97.996 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

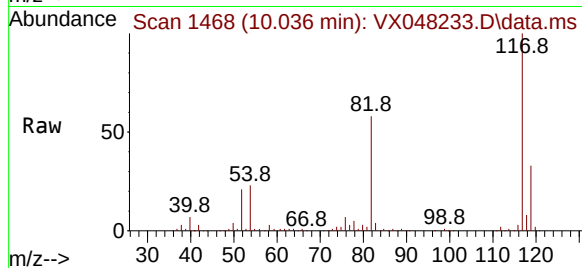
Tgt Ion: 95 Resp: 167565
Ion Ratio Lower Upper
95 100
174 76.3 0.0 147.8
176 74.1 0.0 142.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.036 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

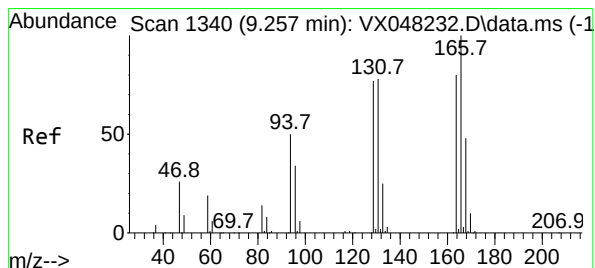
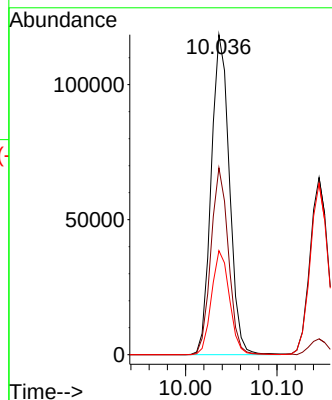
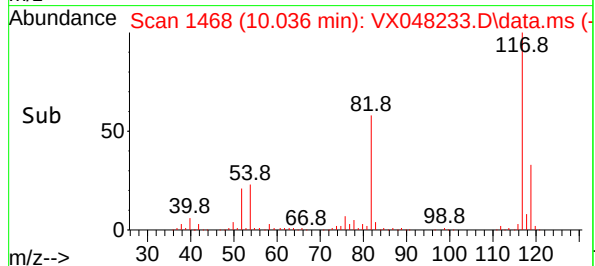
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:117 Resp: 16358
Ion Ratio Lower Upper
117 100
82 58.4 46.5 69.7
119 32.5 25.9 38.9

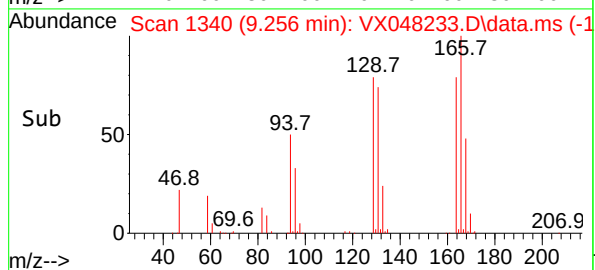
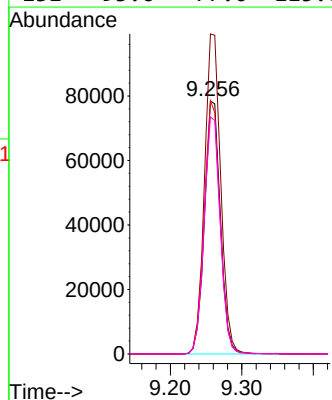
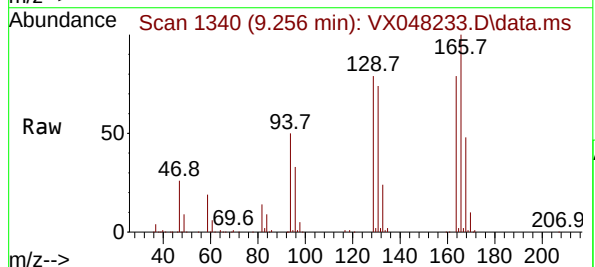
Manual Integrations
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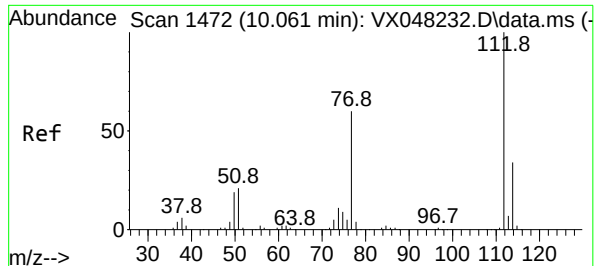
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#64
Tetrachloroethene
Concen: 105.633 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:164 Resp: 121163
Ion Ratio Lower Upper
164 100
166 126.5 104.5 156.7
129 100.1 81.8 122.6
131 93.6 77.0 115.6





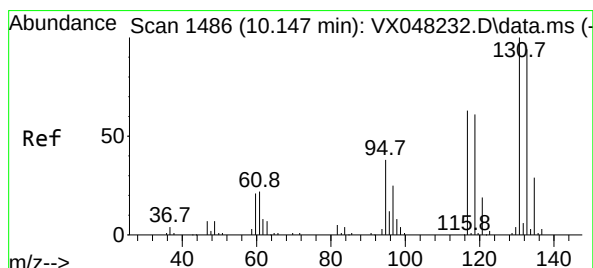
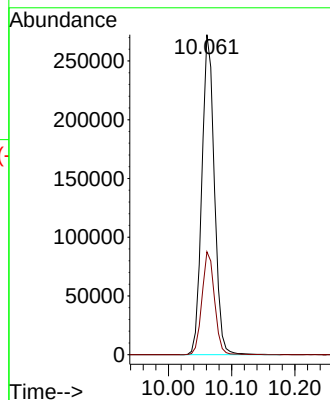
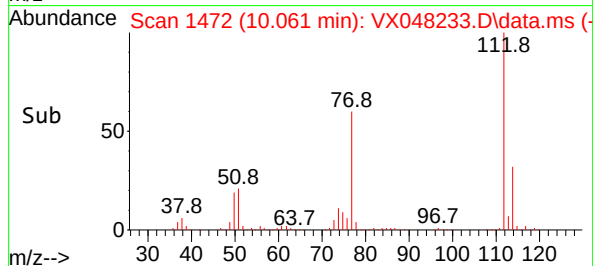
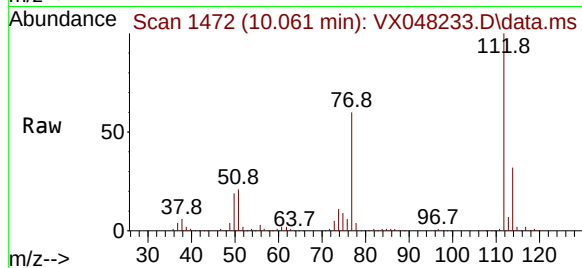
#65
Chlorobenzene
Concen: 104.990 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 37553
Ion Ratio Lower Upper
112 100
114 32.1 26.2 39.2

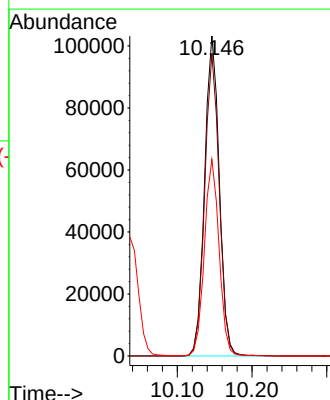
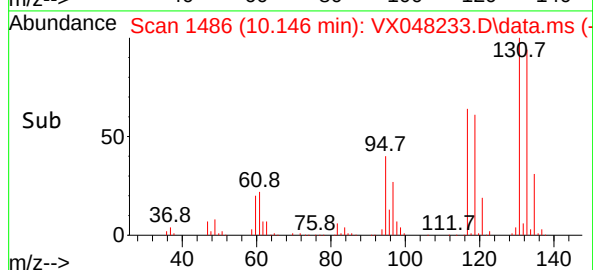
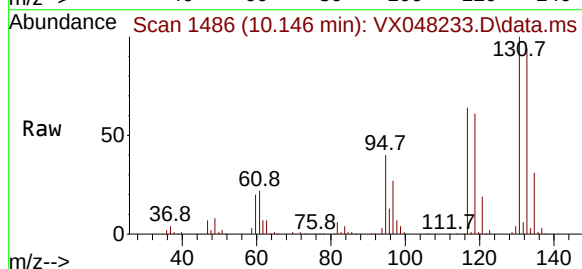
Manual Integrations
APPROVED

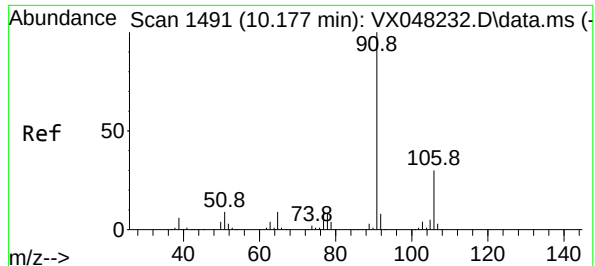
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 109.080 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:131 Resp: 140599
Ion Ratio Lower Upper
131 100
133 93.7 47.6 142.8
119 61.6 32.5 97.5





#67

Ethyl Benzene

Concen: 107.128 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 656925

Ion Ratio Lower Upper

91 100

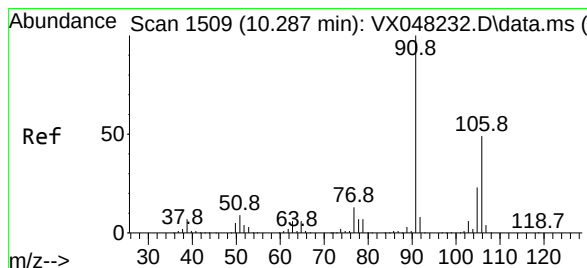
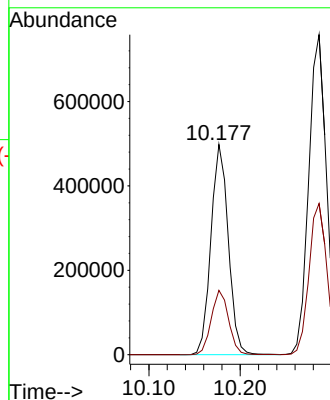
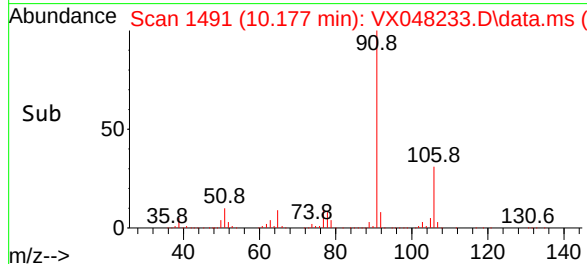
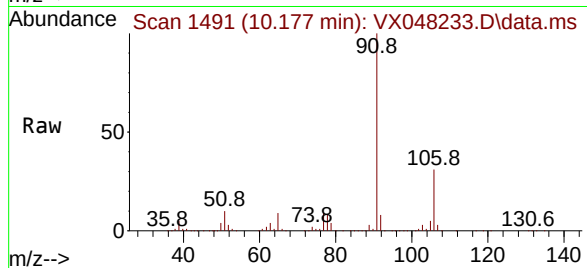
106 30.6 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#68

m/p-Xylenes

Concen: 214.875 ug/l

RT: 10.286 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX048233.D

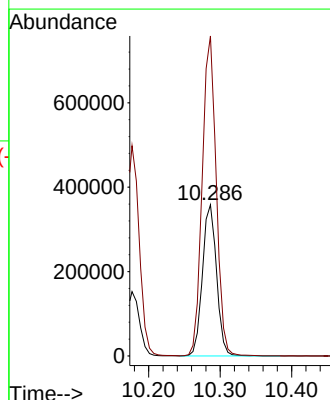
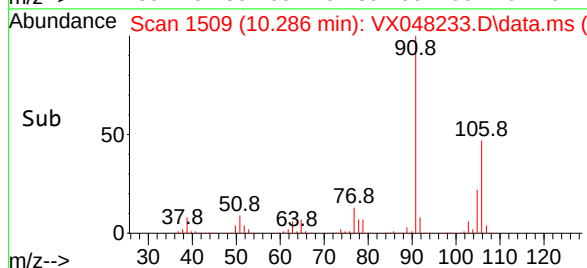
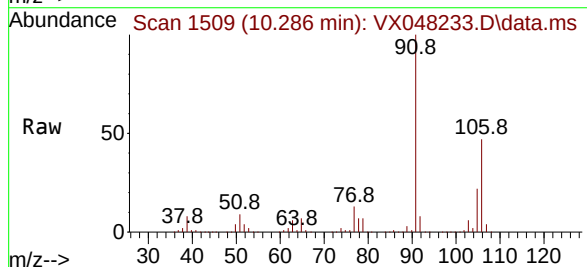
Acq: 20 Oct 2025 12:22

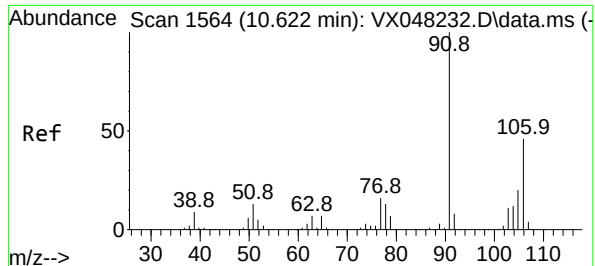
Tgt Ion:106 Resp: 490879

Ion Ratio Lower Upper

106 100

91 210.5 167.9 251.9





#69

o-Xylene

Concen: 110.042 ug/l

RT: 10.622 min Scan# 1564

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:106 Resp: 23664

Ion Ratio Lower Upper

106 100

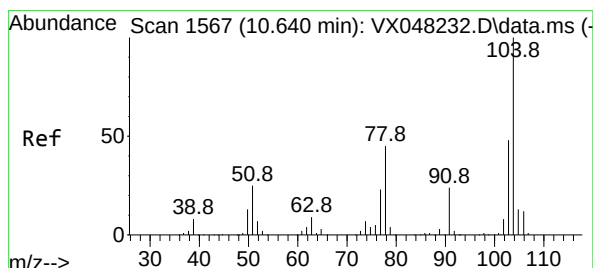
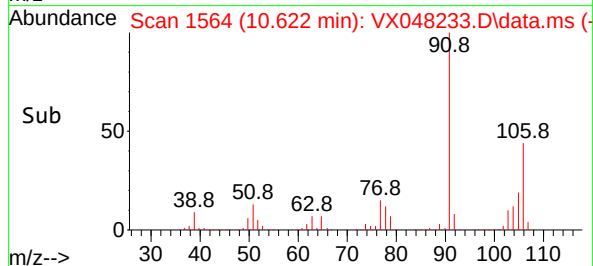
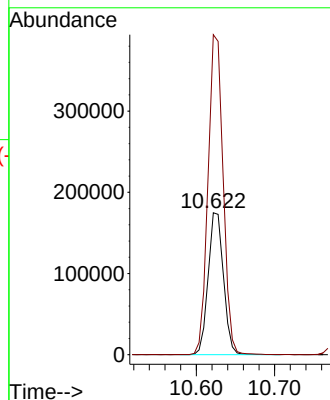
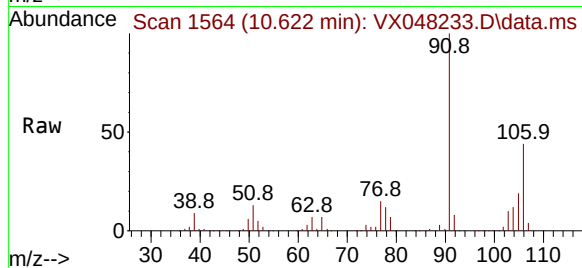
91 222.9 111.3 333.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#70

Styrene

Concen: 110.197 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

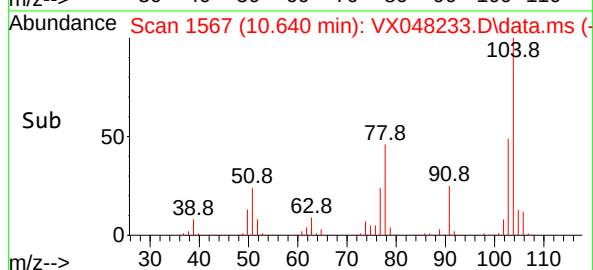
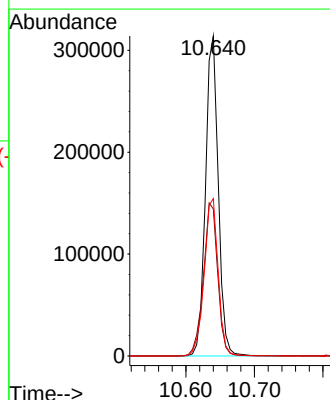
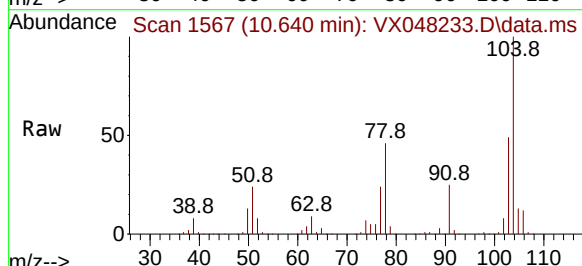
Tgt Ion:104 Resp: 407916

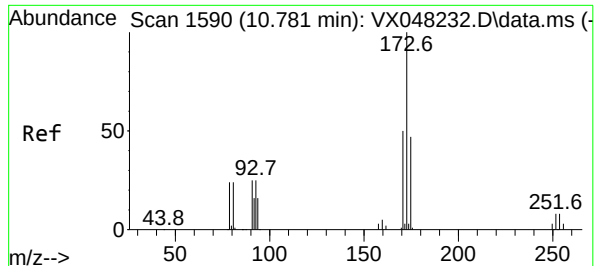
Ion Ratio Lower Upper

104 100

78 53.6 42.2 63.4

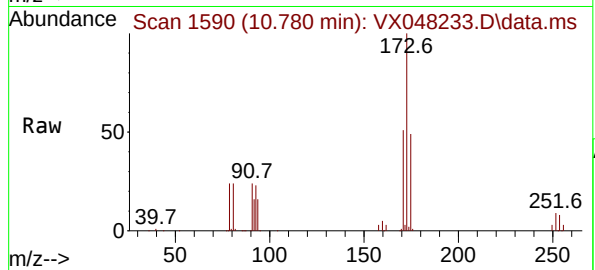
103 54.0 43.0 64.4





#71
Bromoform
Concen: 115.806 ug/l
RT: 10.780 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

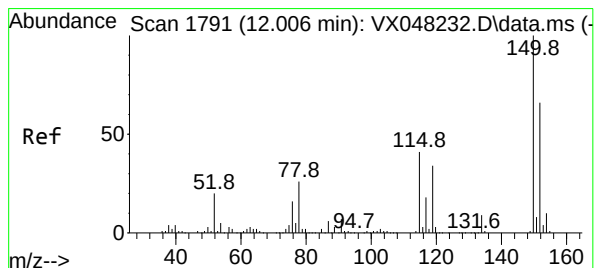
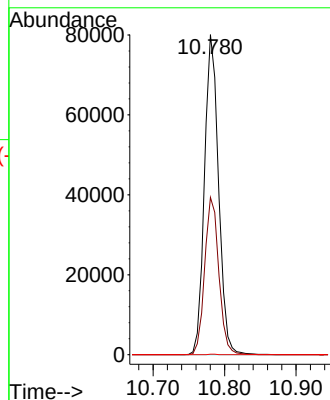
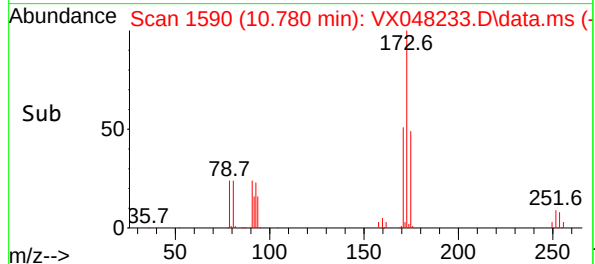
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:173 Resp: 10961
Ion Ratio Lower Upper
173 100
175 49.4 24.0 72.0
254 0.1 0.0 0.0

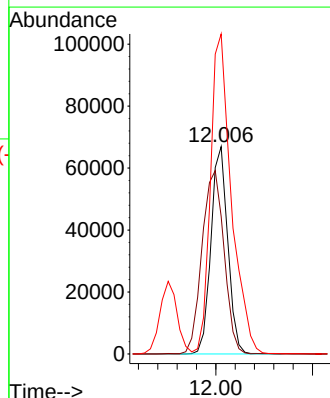
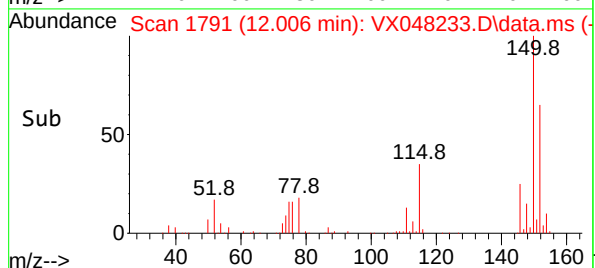
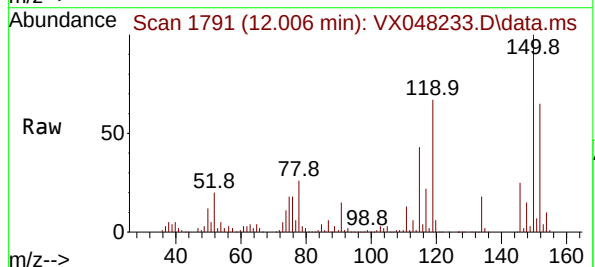
Manual Integrations
APPROVED

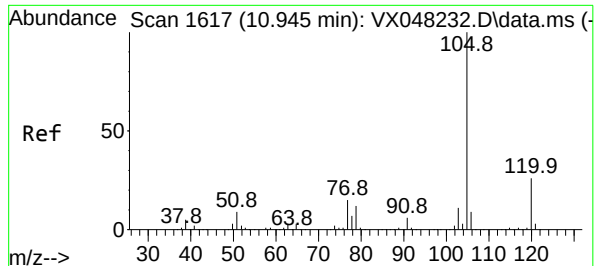
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

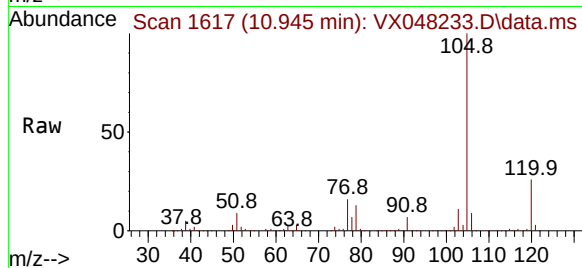
Tgt Ion:152 Resp: 80621
Ion Ratio Lower Upper
152 100
115 116.4 43.1 129.4
150 192.6 0.0 353.0





#73
Isopropylbenzene
Concen: 111.418 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

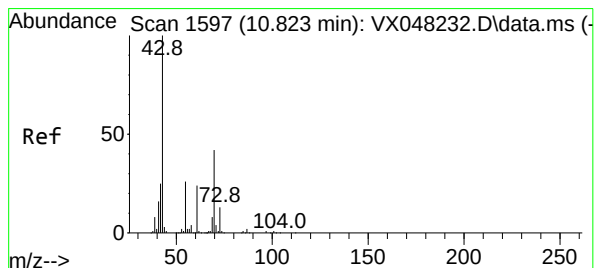
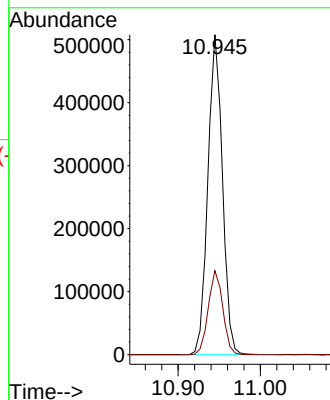
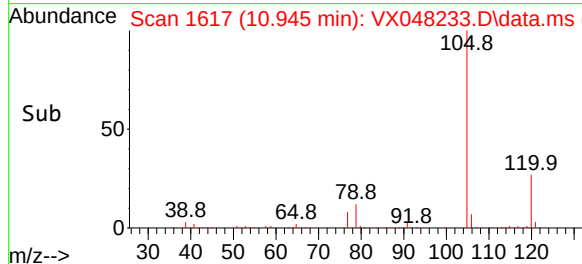
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:105 Resp: 62476
Ion Ratio Lower Upper
105 100
120 26.2 13.0 38.9

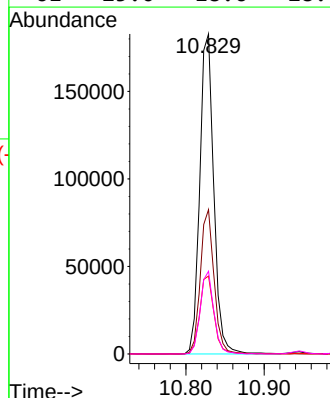
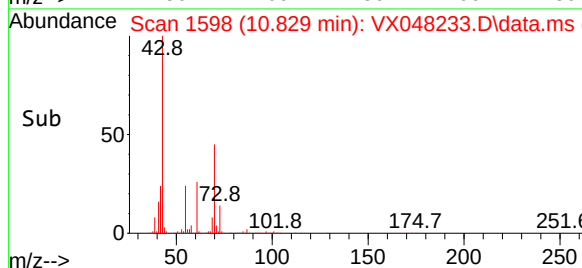
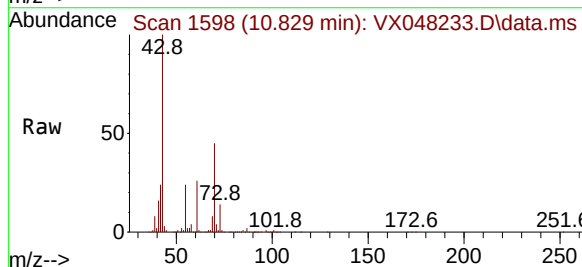
Manual Integrations
APPROVED

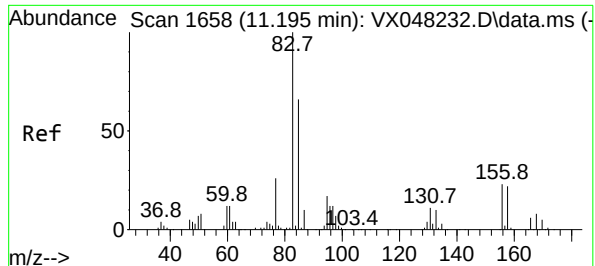
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#74
N-ethyl acetate
Concen: 109.030 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 43 Resp: 228080
Ion Ratio Lower Upper
43 100
70 44.4 32.2 48.2
55 24.8 19.1 28.7
61 25.0 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 103.367 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 16420

Ion Ratio Lower Upper

83 100

131 10.6 4.8 14.4

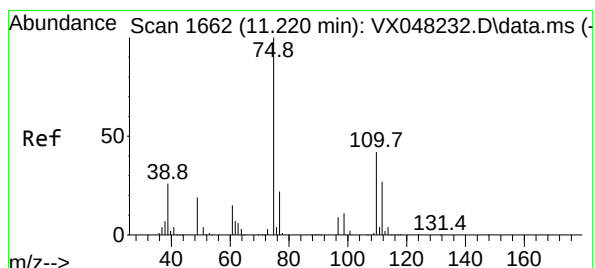
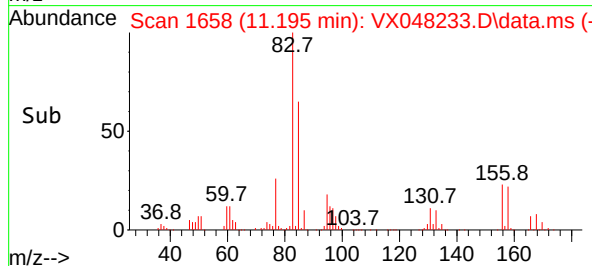
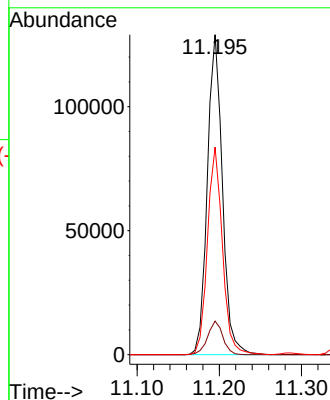
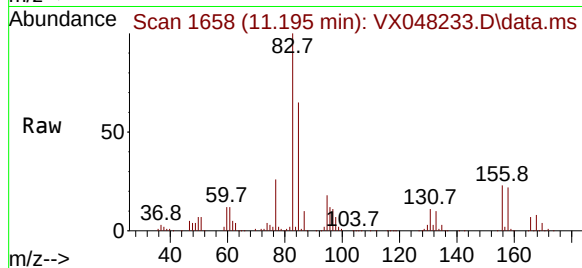
85 64.4 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#76

1,2,3-Trichloropropane

Concen: 106.083 ug/l m

RT: 11.219 min Scan# 1662

Delta R.T. -0.000 min

Lab File: VX048233.D

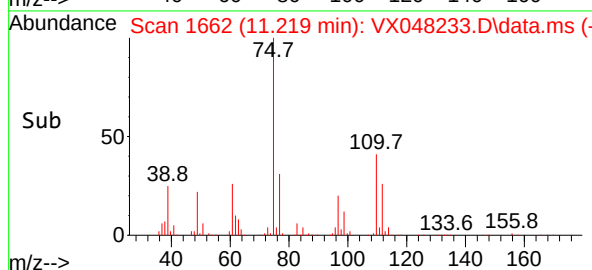
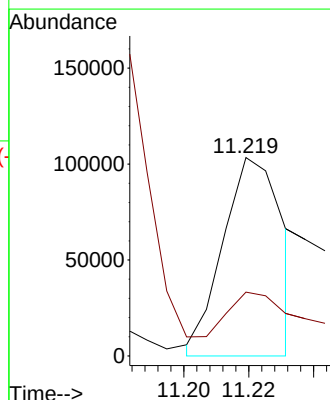
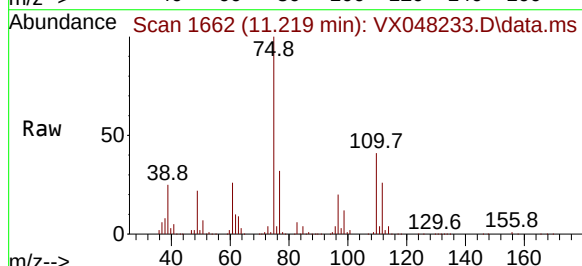
Acq: 20 Oct 2025 12:22

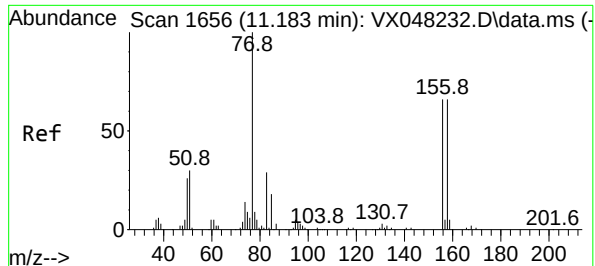
Tgt Ion: 75 Resp: 130599

Ion Ratio Lower Upper

75 100

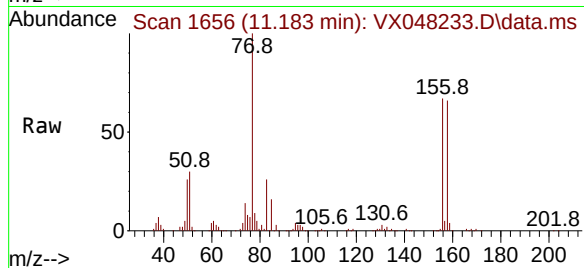
77 45.0 22.4 67.2





#77
Bromobenzene
Concen: 109.475 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

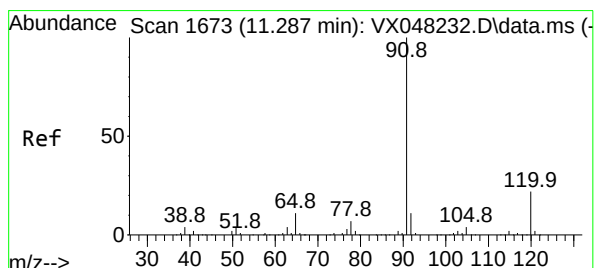
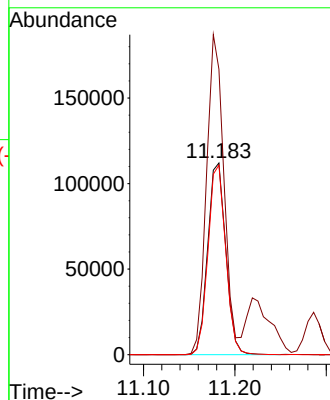
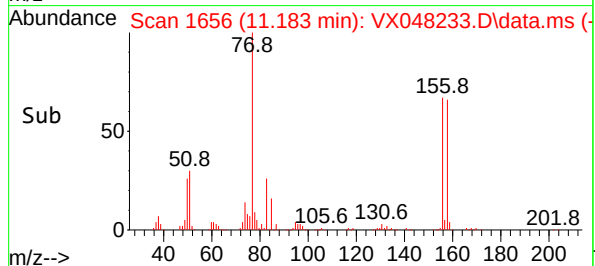
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



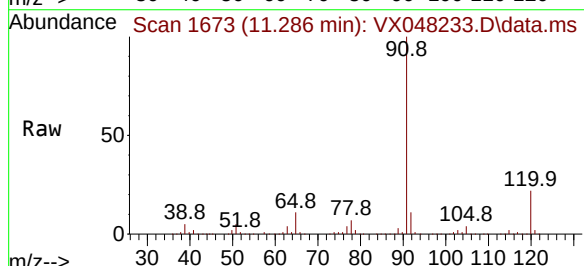
Tgt Ion:156 Resp: 153619
Ion Ratio Lower Upper
156 100
77 159.4 87.0 261.0
158 96.9 47.8 143.4

Manual Integrations
APPROVED

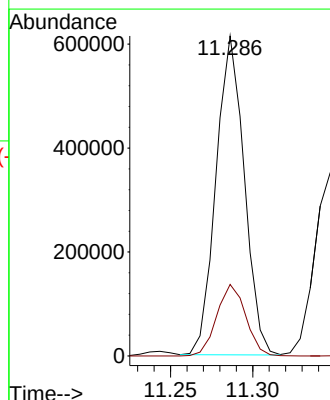
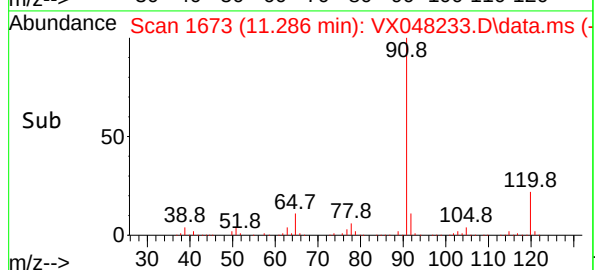
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

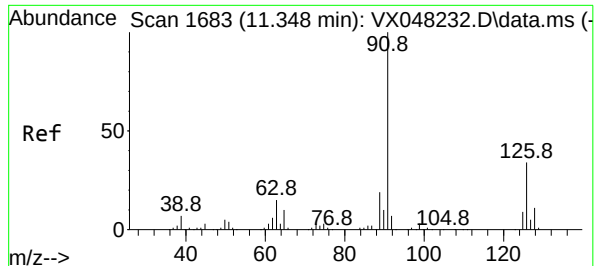


#78
n-propylbenzene
Concen: 107.747 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22



Tgt Ion: 91 Resp: 732684
Ion Ratio Lower Upper
91 100
120 23.0 11.1 33.1





#79

2-Chlorotoluene

Concen: 105.691 ug/l

RT: 11.347 min Scan# 1683

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 43421

Ion Ratio Lower Upper

91 100

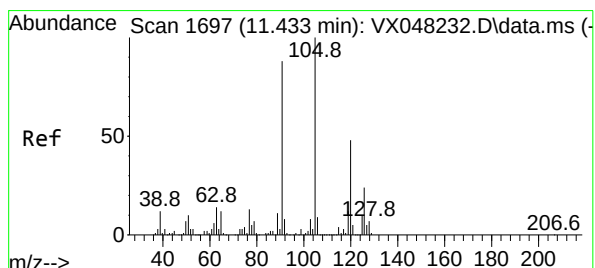
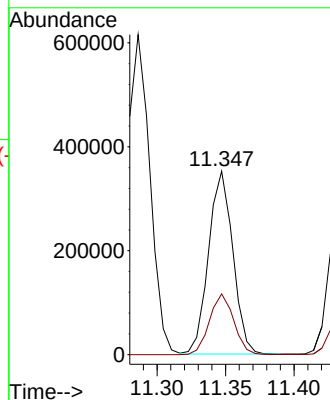
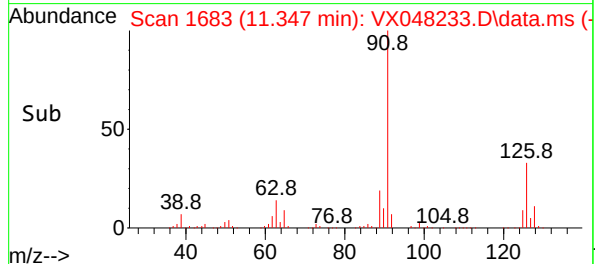
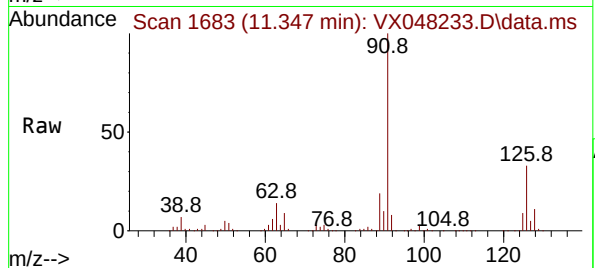
126 33.2 16.4 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#80

1,3,5-Trimethylbenzene

Concen: 112.876 ug/l

RT: 11.432 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX048233.D

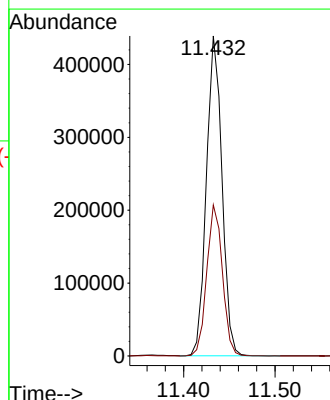
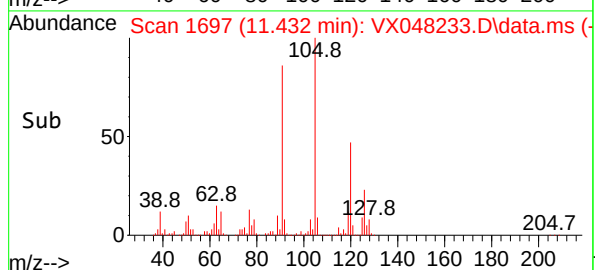
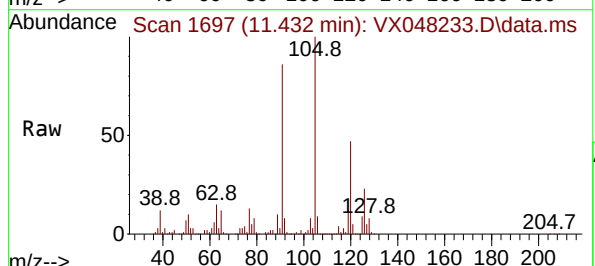
Acq: 20 Oct 2025 12:22

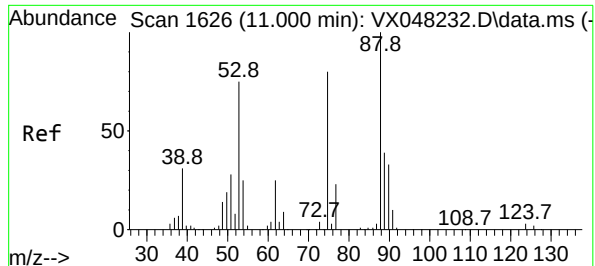
Tgt Ion:105 Resp: 519549

Ion Ratio Lower Upper

105 100

120 47.6 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 117.466 ug/l

RT: 11.000 min Scan# 1626

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

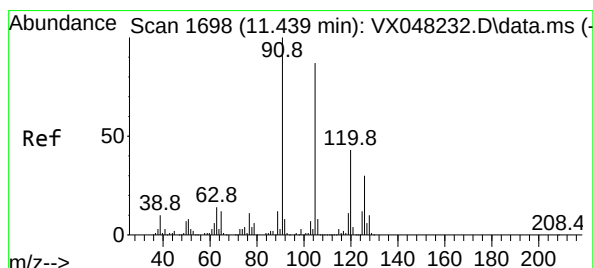
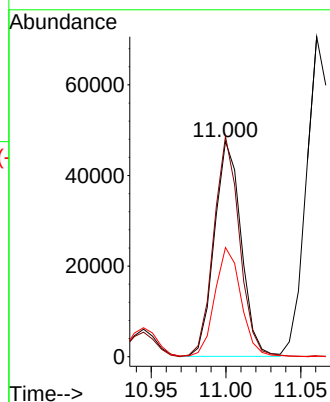
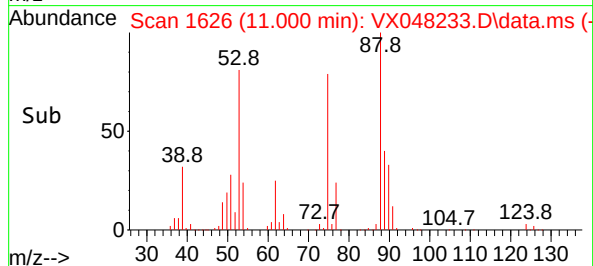
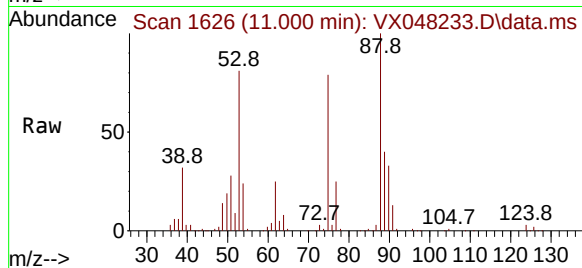
VSTDIC100

Tgt Ion:	75	Resp:	5905
Ion Ratio	Lower	Upper	
75	100		
53	98.7	79.5	119.3
89	49.9	36.8	55.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#82

4-Chlorotoluene

Concen: 104.983 ug/l

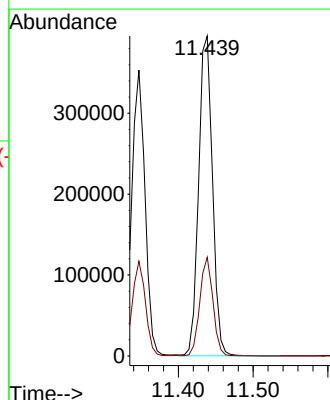
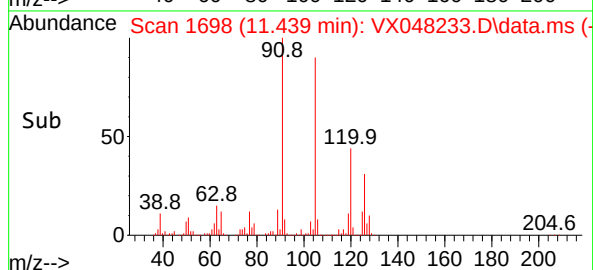
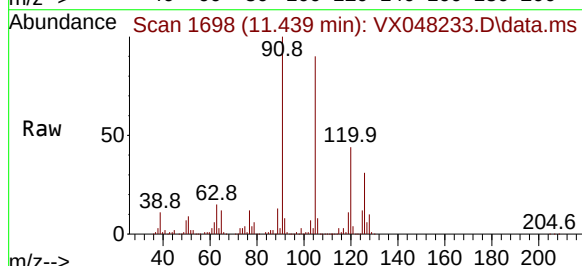
RT: 11.439 min Scan# 1698

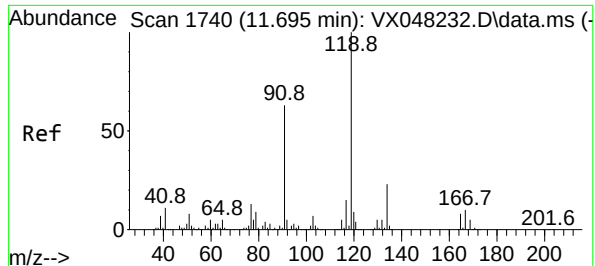
Delta R.T. 0.006 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Tgt Ion:	91	Resp:	506861
Ion Ratio	Lower	Upper	
91	100		
126	29.5	14.1	42.4





#83

tert-Butylbenzene

Concen: 113.817 ug/l

RT: 11.695 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

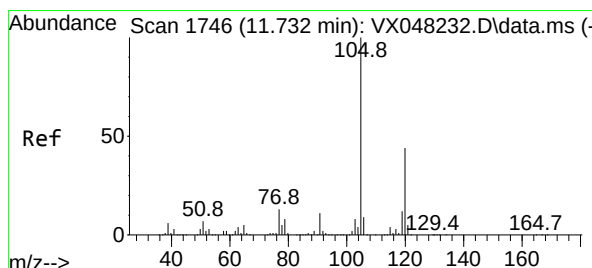
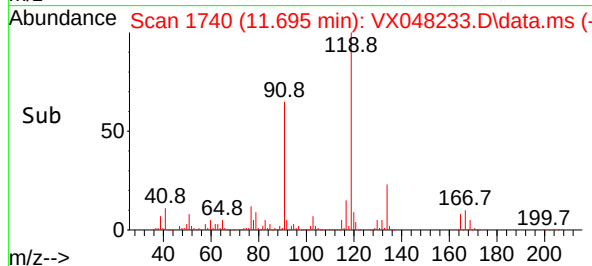
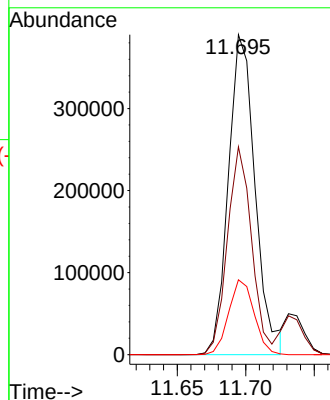
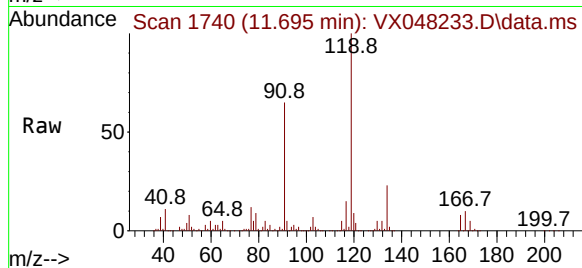
Tgt Ion	Ratio	Lower	Upper
119	100		
91	59.1	30.3	91.0
134	22.3	11.4	34.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#84

1,2,4-Trimethylbenzene

Concen: 114.214 ug/l

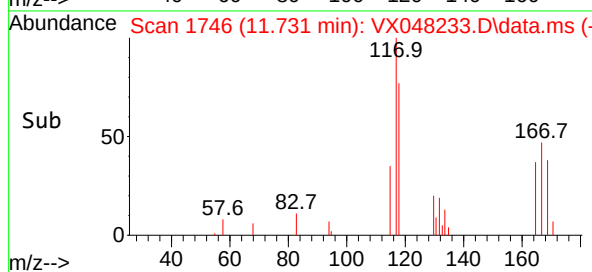
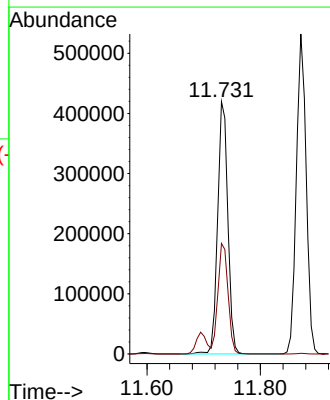
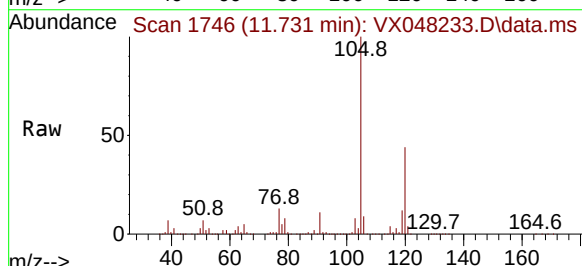
RT: 11.731 min Scan# 1746

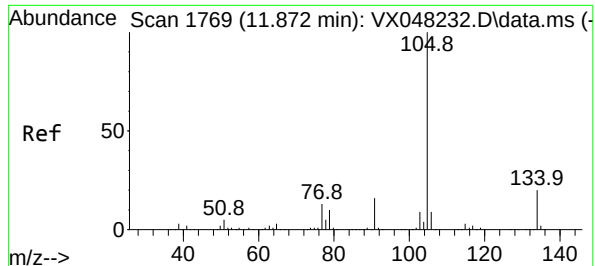
Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

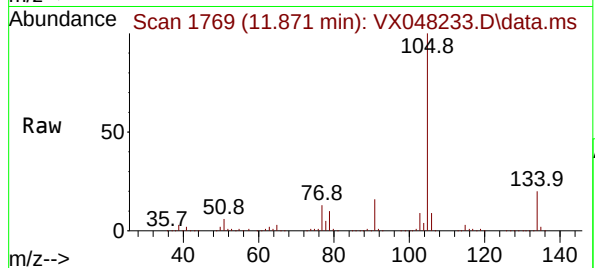
Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.5	22.1	66.5





#85
sec-Butylbenzene
Concen: 112.562 ug/l
RT: 11.871 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

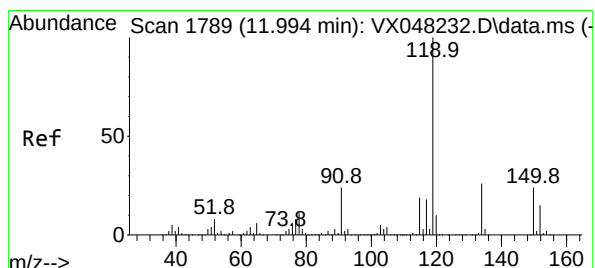
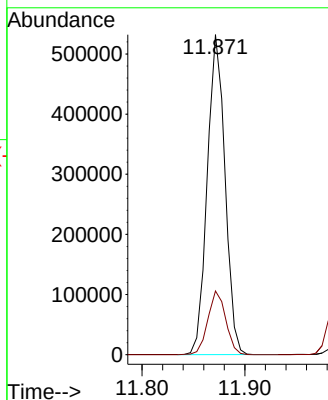
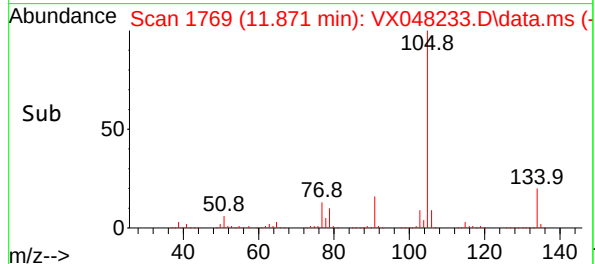
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



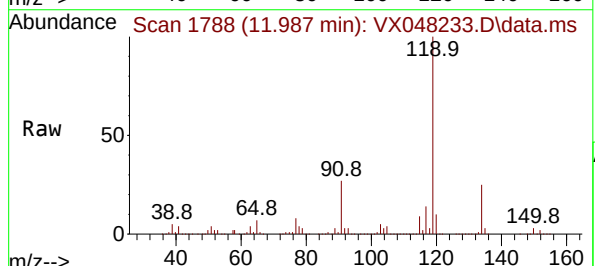
Tgt Ion:105 Resp: 639904
Ion Ratio Lower Upper
105 100
134 20.1 10.1 30.1

Manual Integrations
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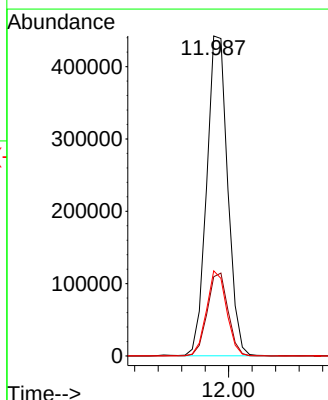
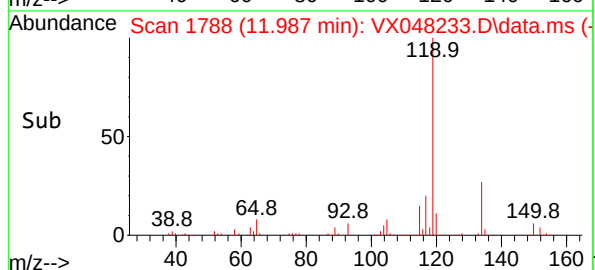
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

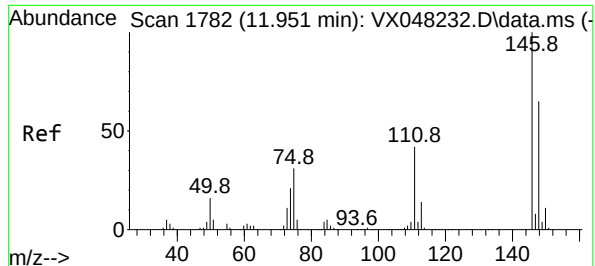


#86
p-Isopropyltoluene
Concen: 114.386 ug/l
RT: 11.987 min Scan# 1788
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22



Tgt Ion:119 Resp: 548119
Ion Ratio Lower Upper
119 100
134 25.7 13.0 39.0
91 25.5 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 107.314 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 28161

Ion Ratio Lower Upper

146 100

111 42.4 20.4 61.2

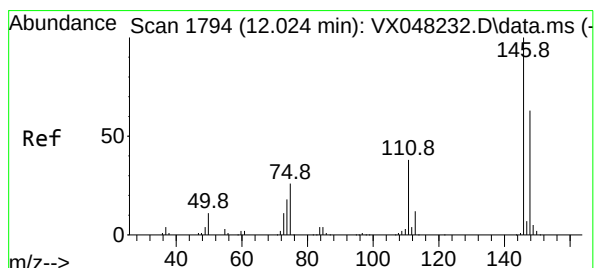
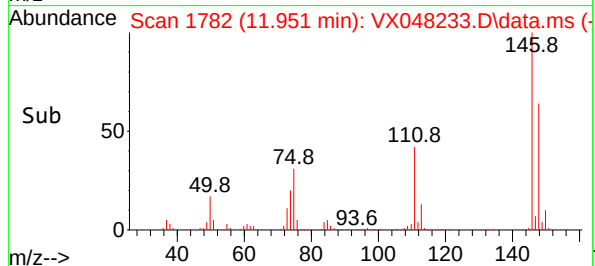
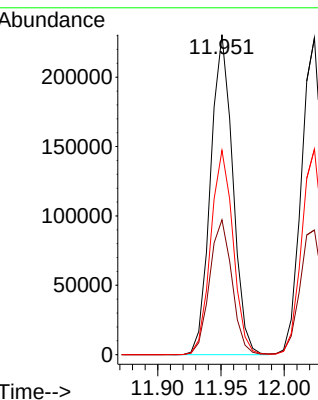
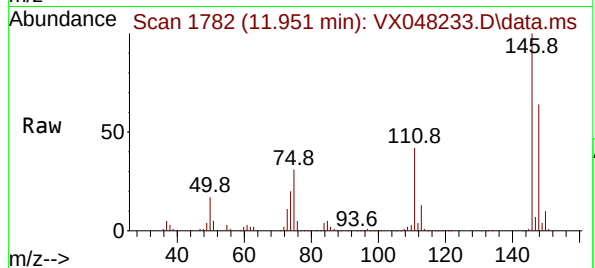
148 64.2 31.9 95.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#88

1,4-Dichlorobenzene

Concen: 102.163 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

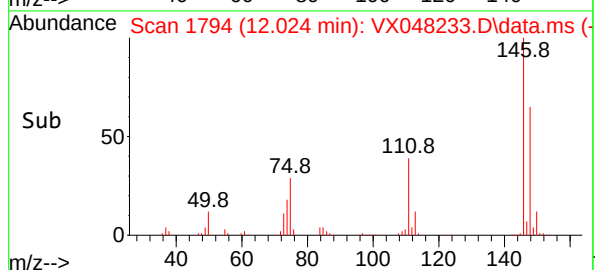
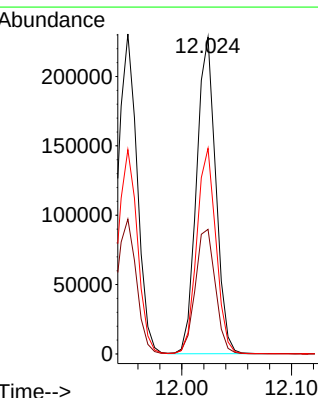
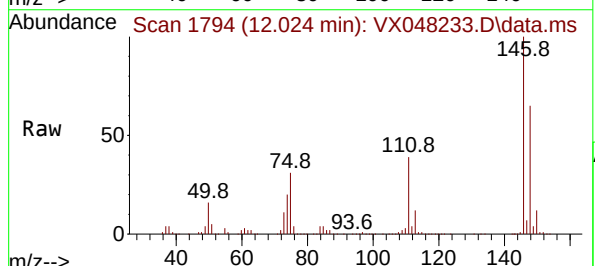
Tgt Ion:146 Resp: 277908

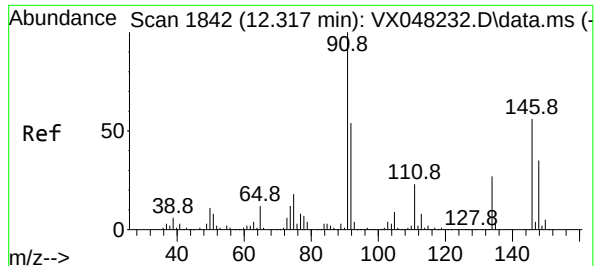
Ion Ratio Lower Upper

146 100

111 41.3 20.1 60.2

148 65.0 31.8 95.3





#89

n-Butylbenzene

Concen: 111.016 ug/l

RT: 12.316 min Scan# 1842

Delta R.T. 0.006 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 495486

Ion Ratio Lower Upper

91 100

92 54.3 26.9 80.6

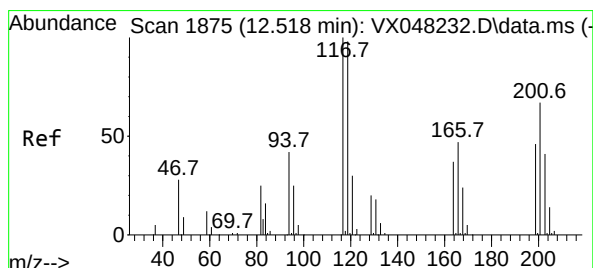
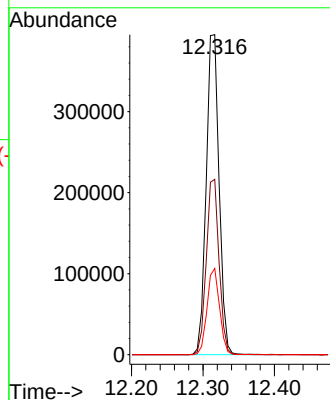
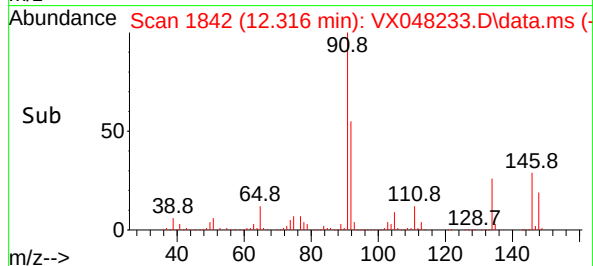
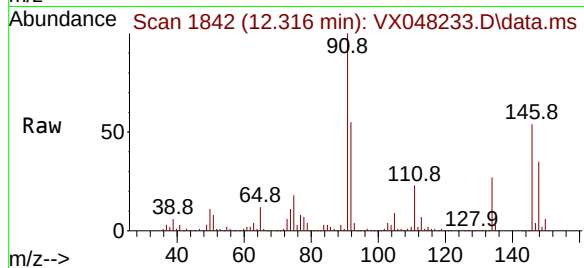
134 26.1 12.7 38.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#90

Hexachloroethane

Concen: 105.851 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX048233.D

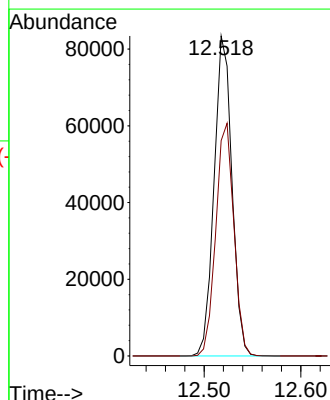
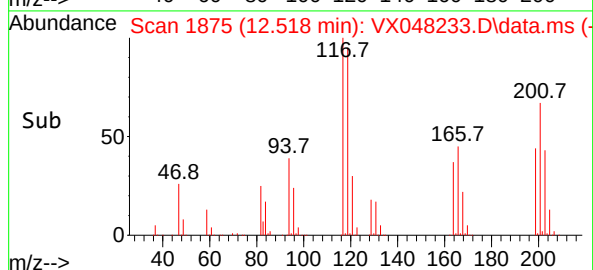
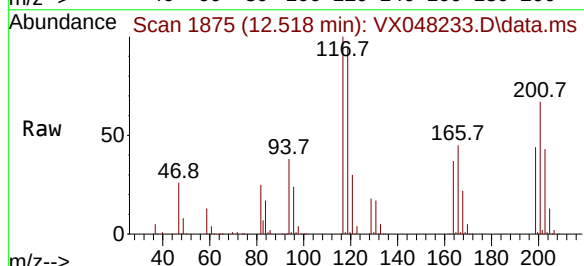
Acq: 20 Oct 2025 12:22

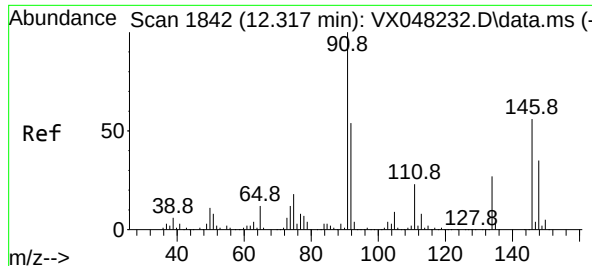
Tgt Ion:117 Resp: 107057

Ion Ratio Lower Upper

117 100

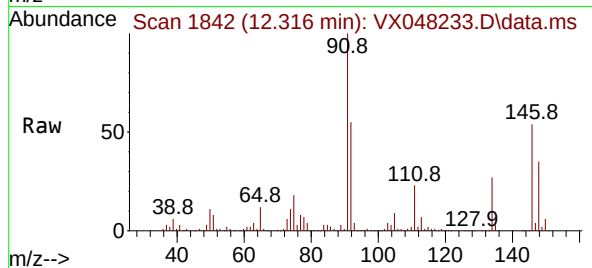
201 73.5 34.1 102.2





#91
1,2-Dichlorobenzene
Concen: 105.277 ug/l
RT: 12.316 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

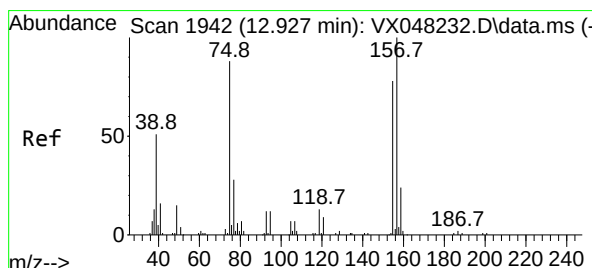
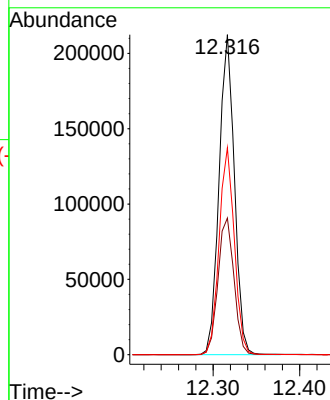
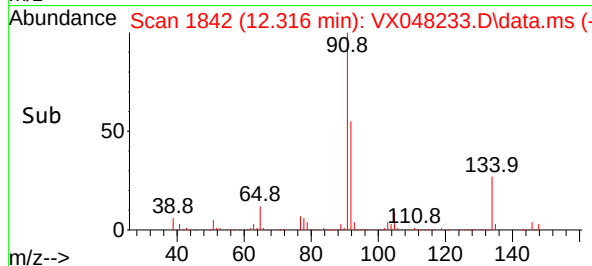
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:146 Resp: 26102
Ion Ratio Lower Upper
146 100
111 44.7 21.9 65.5
148 64.5 31.9 95.5

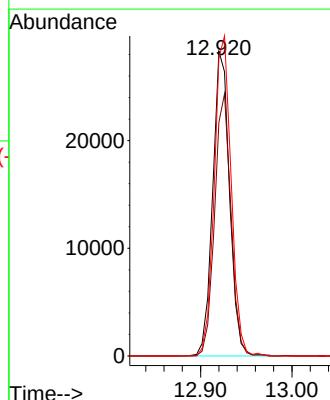
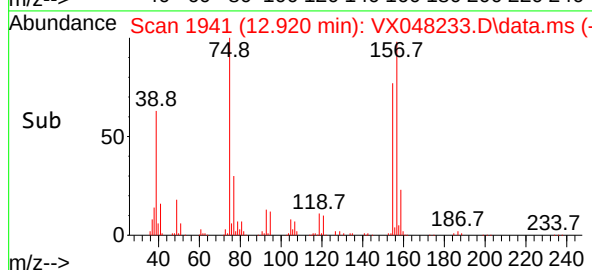
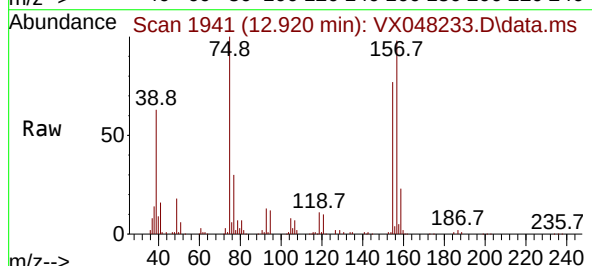
Manual Integrations
APPROVED

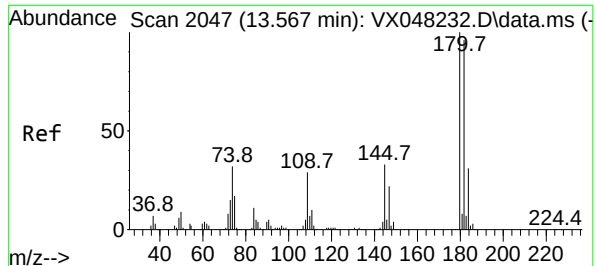
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 124.320 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion: 75 Resp: 36087
Ion Ratio Lower Upper
75 100
155 83.6 42.8 128.4
157 105.4 54.2 162.6





#93

1,2,4-Trichlorobenzene

Concen: 122.679 ug/l

RT: 13.566 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:180 Resp: 17956

Ion Ratio Lower Upper

180 100

182 94.4 47.3 142.0

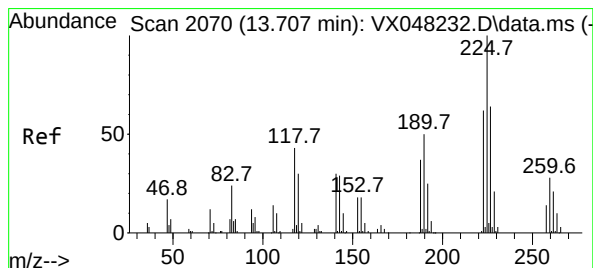
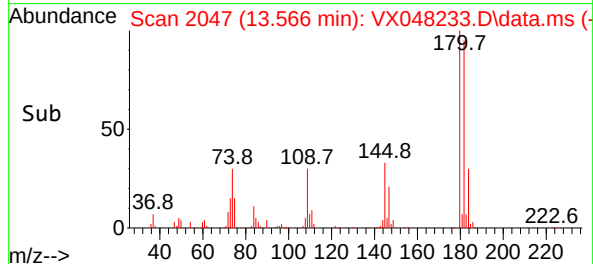
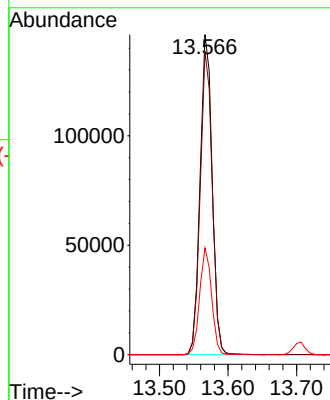
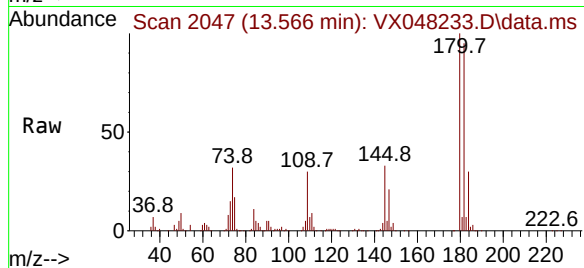
145 33.0 16.3 48.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#94

Hexachlorobutadiene

Concen: 121.605 ug/l

RT: 13.706 min Scan# 2070

Delta R.T. 0.006 min

Lab File: VX048233.D

Acq: 20 Oct 2025 12:22

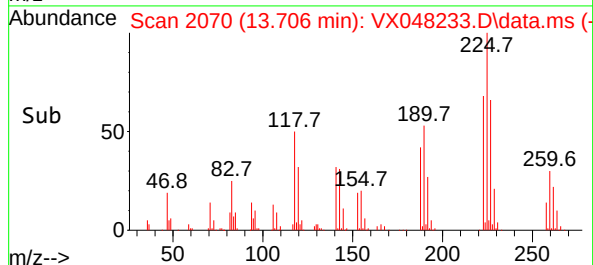
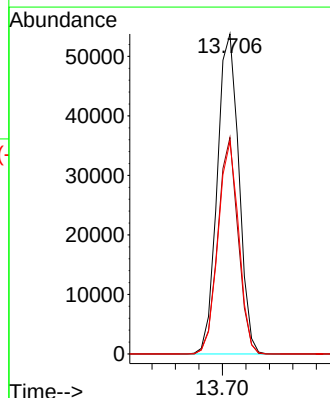
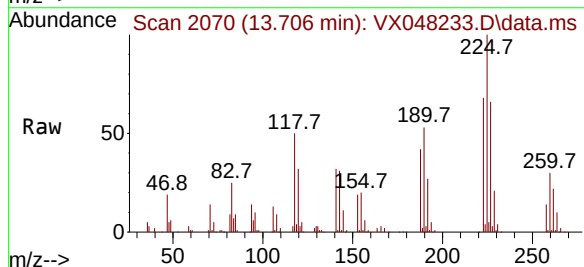
Tgt Ion:225 Resp: 68645

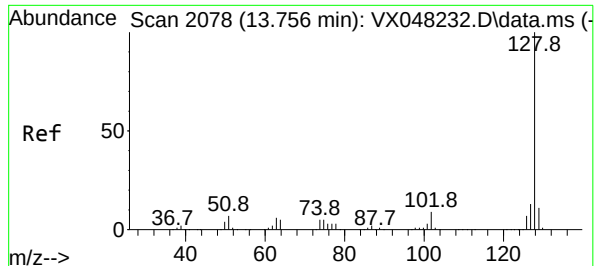
Ion Ratio Lower Upper

225 100

223 63.3 32.6 97.7

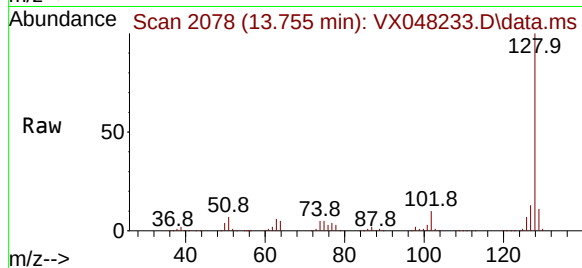
227 63.5 32.5 97.4





#95
Naphthalene
Concen: 132.536 ug/l
RT: 13.755 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

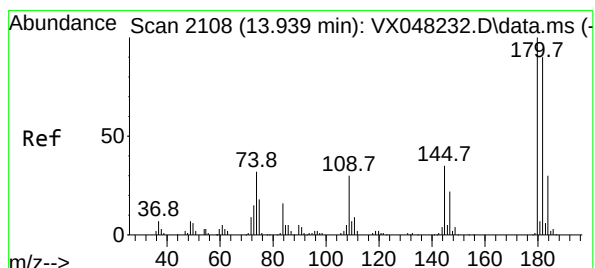
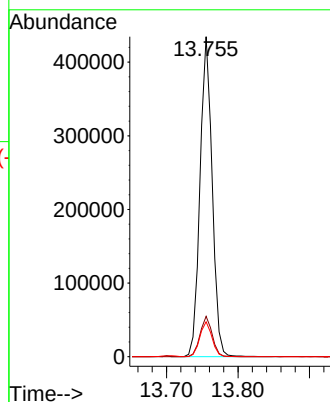
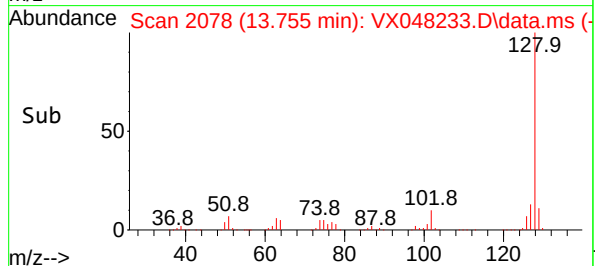
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:128 Resp: 51135
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.4
129 10.9 8.6 12.8

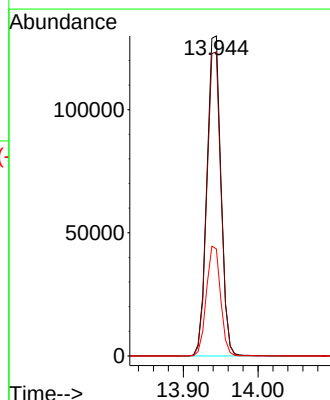
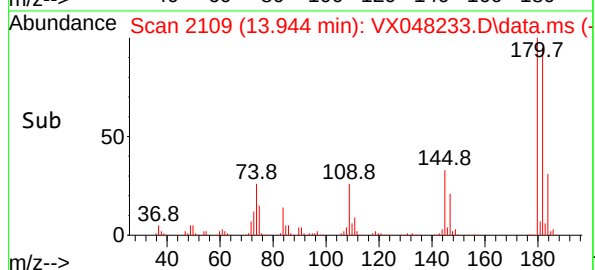
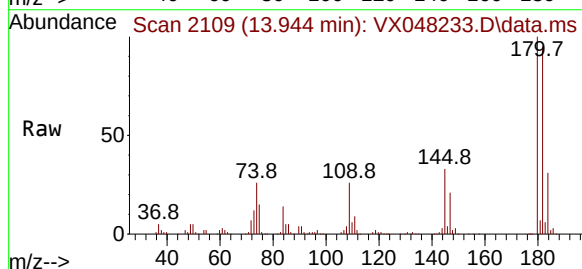
Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 125.328 ug/l
RT: 13.944 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX048233.D
Acq: 20 Oct 2025 12:22

Tgt Ion:180 Resp: 169248
Ion Ratio Lower Upper
180 100
182 95.5 46.6 139.7
145 34.6 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
 Data File : VX048234.D
 Acq On : 20 Oct 2025 12:43
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Oct 20 13:01:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 12:35:14 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/21/2025
 Supervised By : Semsettin Yesilyurt 10/21/2025

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	112063	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	180904	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	155759	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	75397	50.000	ug/l	# 0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.946	65	234807	135.251	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 270.500%#	
35) Dibromofluoromethane	5.373	113	188821	150.393	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 300.780%#	
50) Toluene-d8	8.635	98	648652	143.408	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 286.820%#	
62) 4-Bromofluorobenzene	11.061	95	239298	145.255	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 290.520%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.173	85	169514	144.124	ug/l	95
3) Chloromethane	1.301	50	158322	111.112	ug/l	99
4) Vinyl Chloride	1.380	62	149708	99.710	ug/l	99
5) Bromomethane	1.605	94	92946	93.091	ug/l	97
6) Chloroethane	1.685	64	89813	93.997	ug/l	96
7) Trichlorofluoromethane	1.892	101	292007	123.905	ug/l	99
8) Diethyl Ether	2.136	74	81474	101.352	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.331	101	184438	138.880	ug/l	96
10) Methyl Iodide	2.453	142	249395	156.785	ug/l	100
11) Tert butyl alcohol	2.959	59	107295	931.439	ug/l	100
12) 1,1-Dichloroethene	2.325	96	178408	137.389	ug/l	95
13) Acrolein	2.239	56	123365	509.584	ug/l	99
14) Allyl chloride	2.666	41	293697	125.734	ug/l	98
15) Acrylonitrile	3.062	53	412892	748.019	ug/l	100
16) Acetone	2.380	43	347029	585.970	ug/l	99
17) Carbon Disulfide	2.514	76	515144	128.936	ug/l	100
18) Methyl Acetate	2.697	43	169402	140.438	ug/l	93
19) Methyl tert-butyl Ether	3.111	73	593033	151.611	ug/l	97
20) Methylene Chloride	2.788	84	190483	132.030	ug/l	94
21) trans-1,2-Dichloroethene	3.093	96	187495	139.566	ug/l	98
22) Diisopropyl ether	3.757	45	571951	125.048	ug/l	93
23) Vinyl Acetate	3.715	43	2367511	692.251	ug/l	96
24) 1,1-Dichloroethane	3.605	63	342500	131.992	ug/l	99
25) 2-Butanone	4.544	43	487152	706.046	ug/l	96
26) 2,2-Dichloropropane	4.465	77	310572	140.027	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	222359	139.465	ug/l	98
28) Bromochloromethane	4.891	49	151812	126.922	ug/l	87
29) Tetrahydrofuran	4.989	42	301745	744.697	ug/l	94
30) Chloroform	5.080	83	358626	131.272	ug/l	98
31) Cyclohexane	5.464	56	291302	137.199	ug/l	91
32) 1,1,1-Trichloroethane	5.373	97	338462	150.785	ug/l	98
36) 1,1-Dichloropropene	5.684	75	249688	141.173	ug/l	99
37) Ethyl Acetate	4.702	43	208614	147.588	ug/l	97
38) Carbon Tetrachloride	5.666	117	307892	151.663	ug/l	100
39) Methylcyclohexane	7.367	83	315911	158.416	ug/l	95
40) Benzene	6.025	78	730908	139.172	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
 Data File : VX048234.D
 Acq On : 20 Oct 2025 12:43
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Oct 20 13:01:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 12:35:14 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
 Supervised By :Semsettin Yesilyurt 10/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	115351	152.378	ug/l	97
42) 1,2-Dichloroethane	6.074	62	269245	143.093	ug/l	99
43) Isopropyl Acetate	6.324	43	361084	152.180	ug/l	96
44) Trichloroethene	7.110	130	197244	149.022	ug/l	98
45) 1,2-Dichloropropane	7.415	63	180619	135.890	ug/l	99
46) Dibromomethane	7.568	93	135105	141.273	ug/l	94
47) Bromodichloromethane	7.805	83	292063	141.302	ug/l	97
48) Methyl methacrylate	7.677	41	184354	151.780	ug/l	95
49) 1,4-Dioxane	7.647	88	49895	4563.512	ug/l	88
51) 4-Methyl-2-Pentanone	8.561	43	983125	744.604	ug/l	94
52) Toluene	8.702	92	460742	145.964	ug/l	99
53) t-1,3-Dichloropropene	8.964	75	300251	155.059	ug/l	99
54) cis-1,3-Dichloropropene	8.354	75	317375	150.373	ug/l	94
55) 1,1,2-Trichloroethane	9.135	97	169894	144.250	ug/l	98
56) Ethyl methacrylate	9.104	69	272177	169.911	ug/l	94
57) 1,3-Dichloropropane	9.293	76	293650	142.707	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.232	63	705780	858.056	ug/l	95
59) 2-Hexanone	9.415	43	694736	752.256	ug/l	96
60) Dibromochloromethane	9.506	129	226642	153.740	ug/l	99
61) 1,2-Dibromoethane	9.592	107	182208	150.876	ug/l	99
64) Tetrachloroethene	9.263	164	168581	154.361	ug/l	91
65) Chlorobenzene	10.061	112	514967	151.209	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.147	131	191186	155.782	ug/l	98
67) Ethyl Benzene	10.177	91	898137	153.825	ug/l	99
68) m/p-Xylenes	10.287	106	661019	303.896	ug/l	99
69) o-Xylene	10.622	106	320334	156.444	ug/l	99
70) Styrene	10.640	104	548149	155.523	ug/l	98
71) Bromoform	10.781	173	152209	168.892	ug/l #	99
73) Isopropylbenzene	10.945	105	849183	161.931	ug/l	100
74) N-amyl acetate	10.829	43	314879	160.952	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.195	83	224486	151.104	ug/l	99
76) 1,2,3-Trichloropropane	11.220	75	181434m	157.586	ug/l	
77) Bromobenzene	11.183	156	207212	157.899	ug/l	94
78) n-propylbenzene	11.287	91	991960	155.984	ug/l	98
79) 2-Chlorotoluene	11.348	91	585792	152.465	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	699885	162.591	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	83158	176.858	ug/l	97
82) 4-Chlorotoluene	11.439	91	691903	153.240	ug/l	99
83) tert-Butylbenzene	11.695	119	717642	165.020	ug/l	98
84) 1,2,4-Trimethylbenzene	11.732	105	707074	164.961	ug/l	99
85) sec-Butylbenzene	11.872	105	861466	162.035	ug/l	100
86) p-Isopropyltoluene	11.994	119	738496	164.794	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	386062	157.307	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	386885	152.078	ug/l	100
89) n-Butylbenzene	12.311	91	664071	159.098	ug/l	99
90) Hexachloroethane	12.518	117	145813	154.159	ug/l	94
91) 1,2-Dichlorobenzene	12.317	146	359278	154.946	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	50367	185.536	ug/l	98
93) 1,2,4-Trichlorobenzene	13.567	180	247472	180.791	ug/l	100
94) Hexachlorobutadiene	13.707	225	92458	175.138	ug/l	100
95) Naphthalene	13.756	128	719433	199.386	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	233671	185.022	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048234.D
Acq On : 20 Oct 2025 12:43
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 13:01:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 12:35:14 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\VX102025\
 Data File : VX048234.D
 Acq On : 20 Oct 2025 12:43
 Operator : JC/MD
 Sample : VSTDIC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025

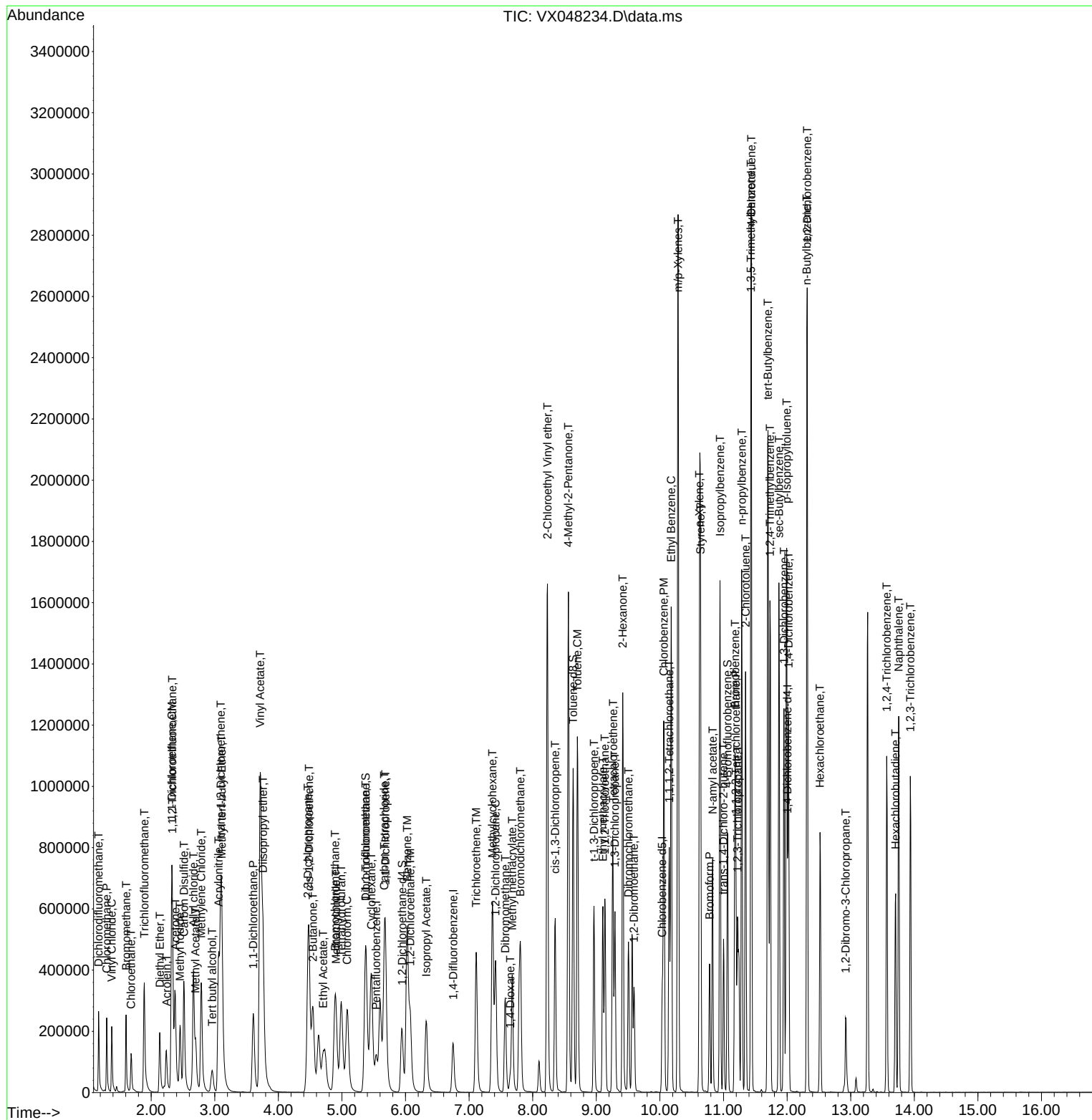
Quant Time: Oct 20 13:01:04 2025

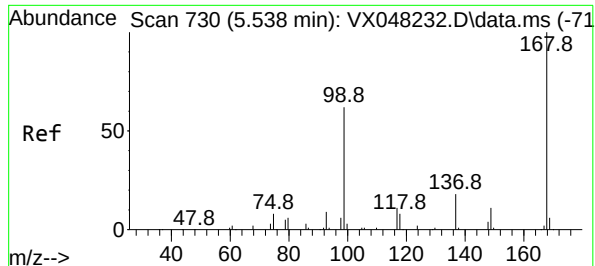
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M

Quant Title : SW846 8260

QLast Update : Mon Oct 20 12:35:14 2025

Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.538 min Scan# 71

Delta R.T. -0.006 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:168 Resp: 11206

Ion Ratio Lower Upper

168 100

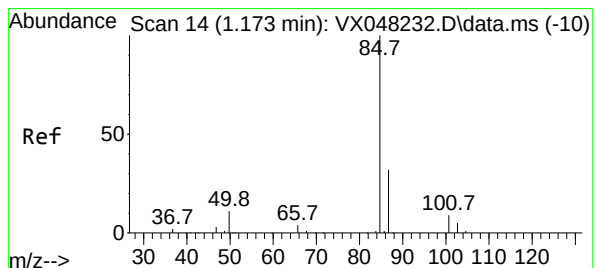
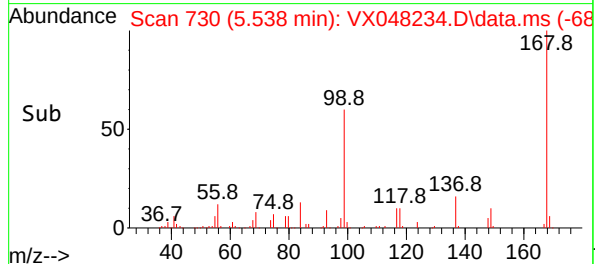
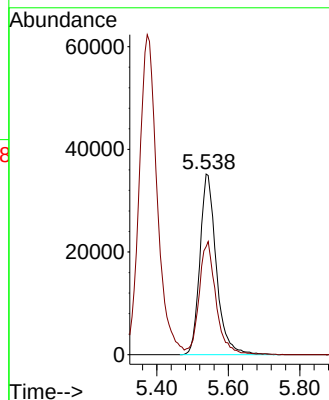
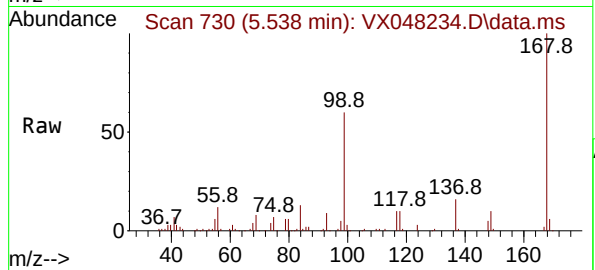
99 59.8 46.4 69.6

Manual Integrations

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Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#2

Dichlorodifluoromethane

Concen: 144.124 ug/l

RT: 1.173 min Scan# 14

Delta R.T. -0.000 min

Lab File: VX048234.D

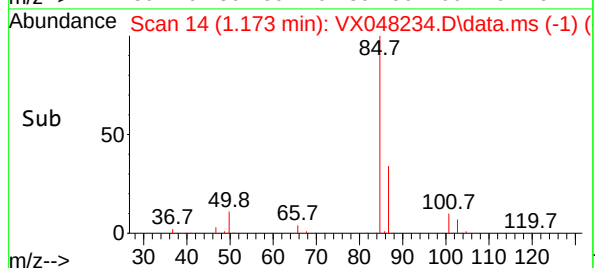
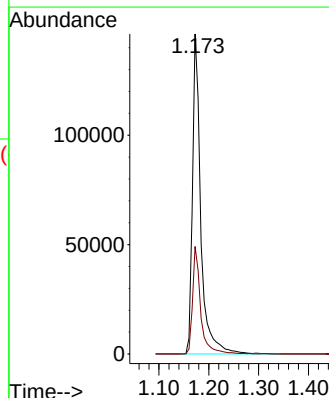
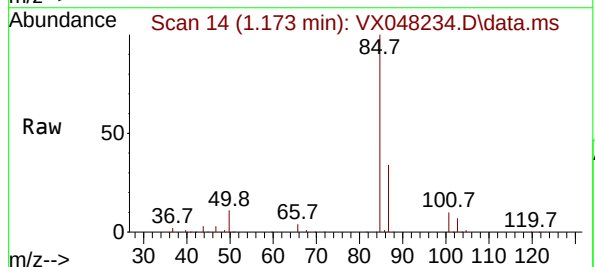
Acq: 20 Oct 2025 12:43

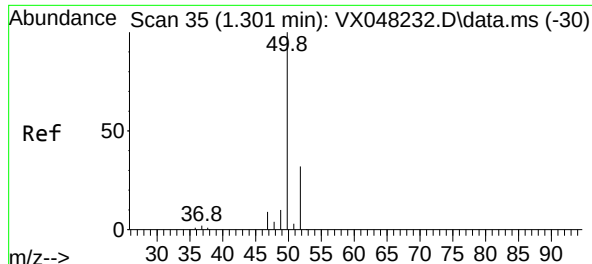
Tgt Ion: 85 Resp: 169514

Ion Ratio Lower Upper

85 100

87 33.6 15.3 45.9





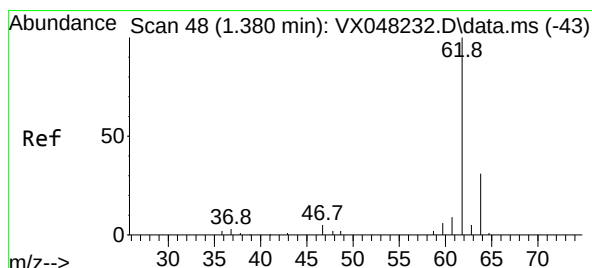
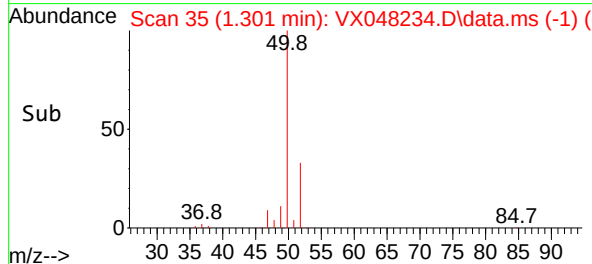
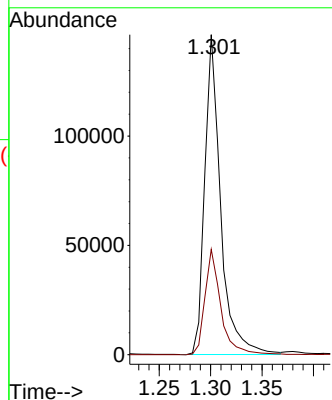
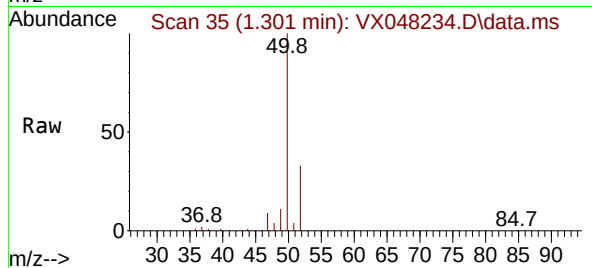
#3
Chloromethane
Concen: 111.112 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 15832
Ion Ratio Lower Upper
50 100
52 32.9 25.9 38.9

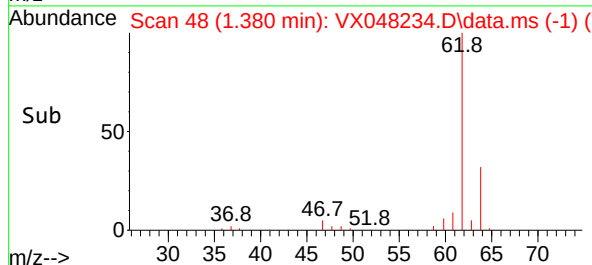
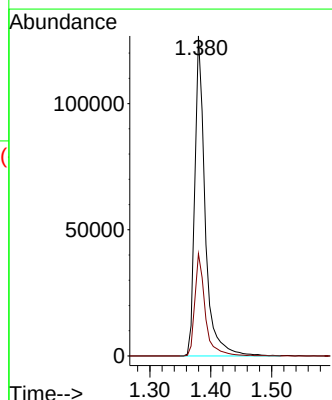
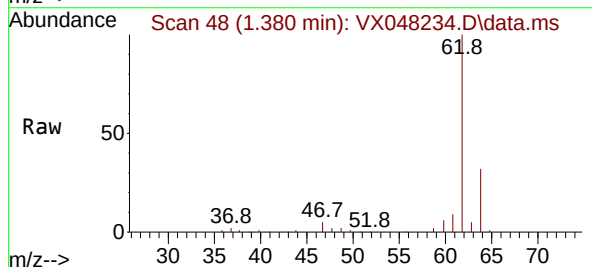
Manual Integrations
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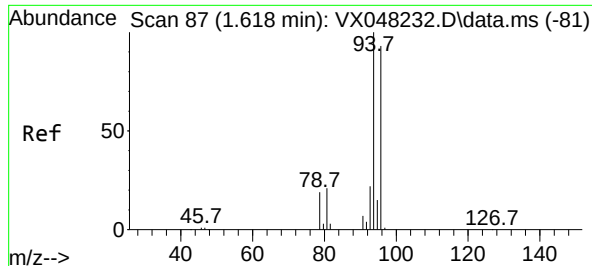
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#4
Vinyl Chloride
Concen: 99.710 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 62 Resp: 149708
Ion Ratio Lower Upper
62 100
64 32.0 25.1 37.7





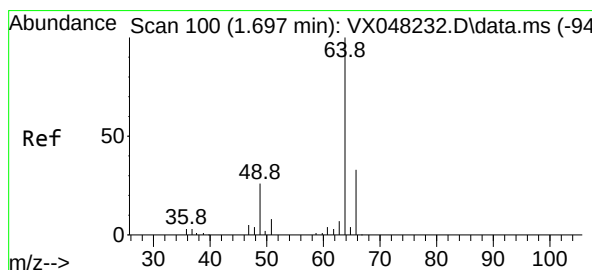
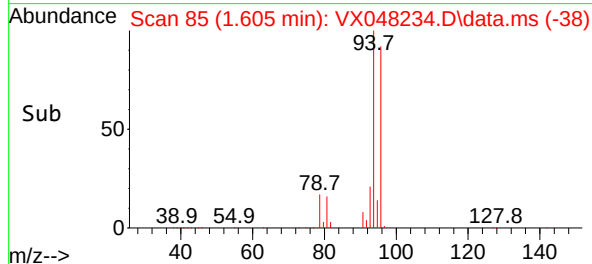
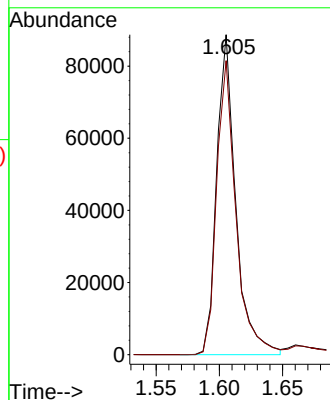
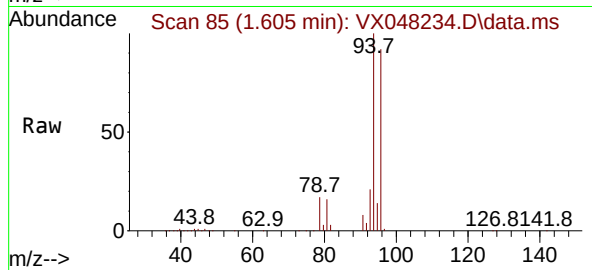
#5
Bromomethane
Concen: 93.091 ug/l
RT: 1.605 min Scan# 81
Delta R.T. -0.012 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 92940
Ion Ratio Lower Upper
94 100
96 91.9 76.0 114.0

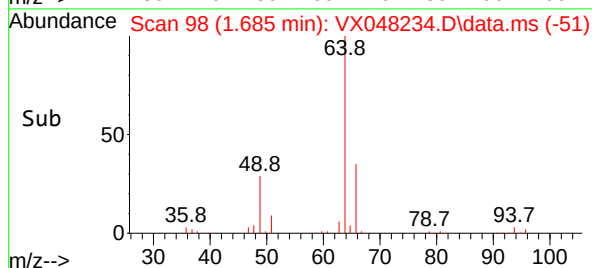
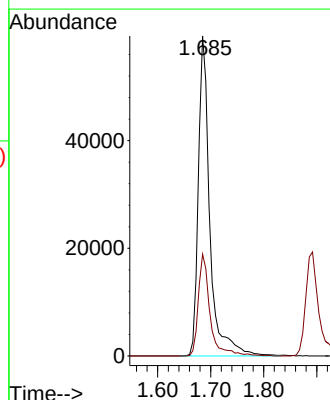
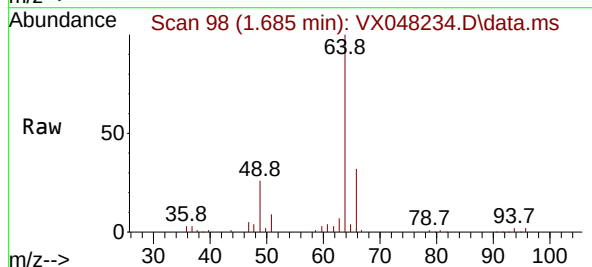
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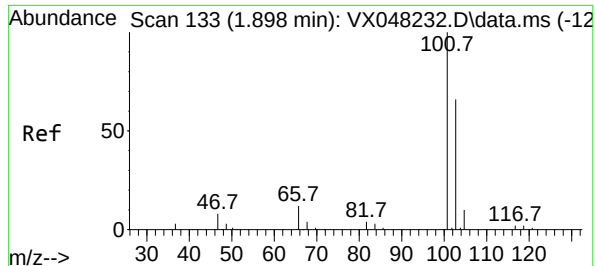
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#6
Chloroethane
Concen: 93.997 ug/l
RT: 1.685 min Scan# 98
Delta R.T. -0.012 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 64 Resp: 89813
Ion Ratio Lower Upper
64 100
66 31.8 23.9 35.9





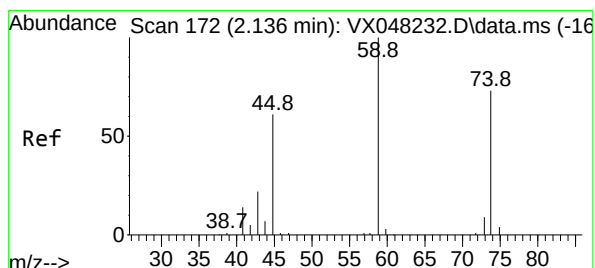
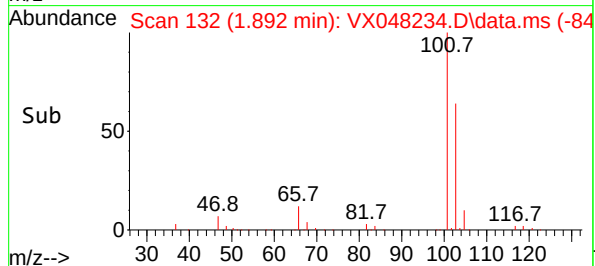
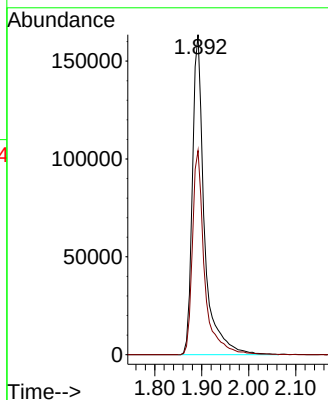
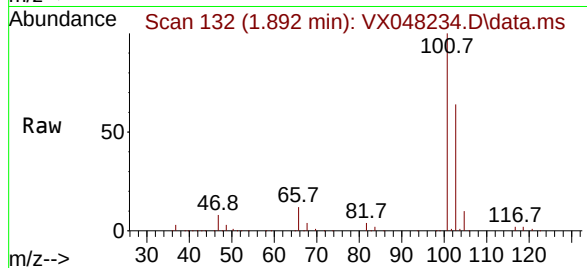
#7
Trichlorofluoromethane
Concen: 123.905 ug/l
RT: 1.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 29200
Ion Ratio Lower Upper
101 100
103 63.8 51.6 77.4

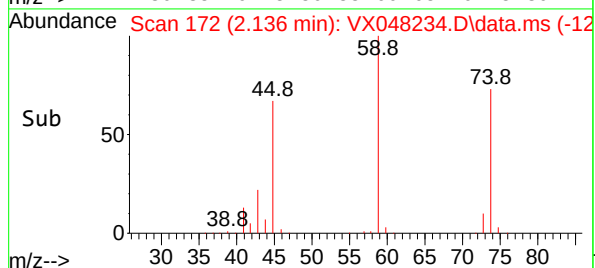
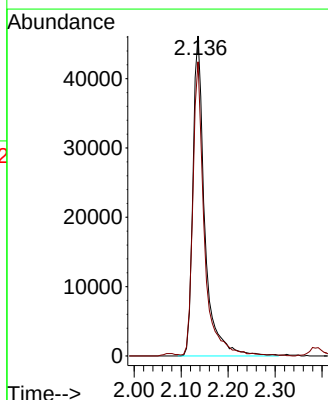
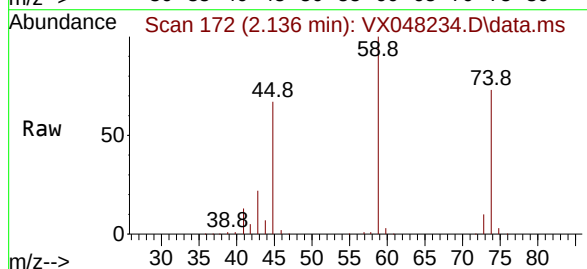
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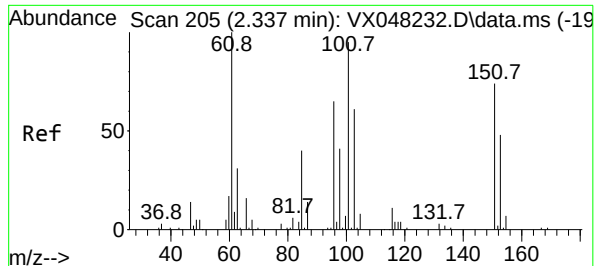
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#8
Diethyl Ether
Concen: 101.352 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 74 Resp: 81474
Ion Ratio Lower Upper
74 100
45 87.5 50.0 149.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 138.880 ug/l

RT: 2.331 min Scan# 205

Delta R.T. -0.006 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:101 Resp: 184438

Ion Ratio Lower Upper

101 100

85 43.3 35.6 53.4

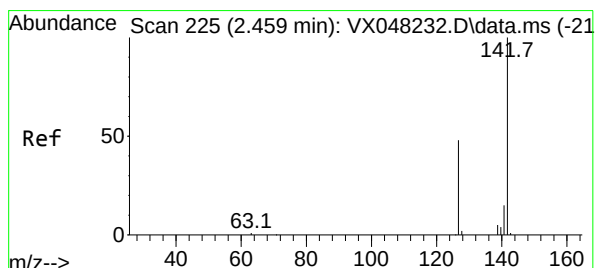
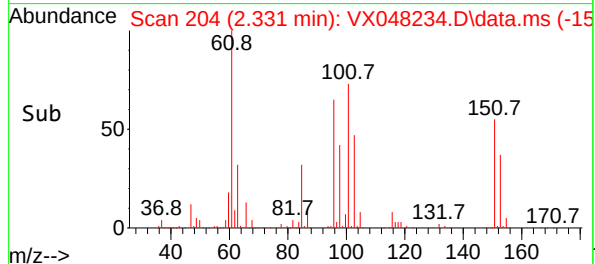
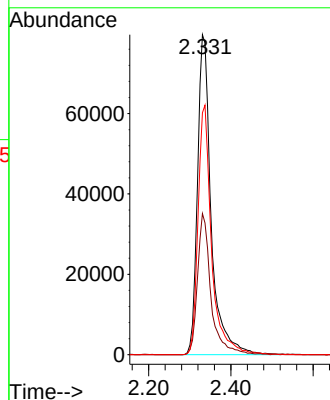
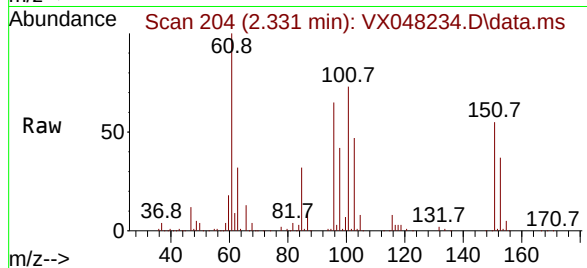
151 77.4 58.0 87.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#10

Methyl Iodide

Concen: 156.785 ug/l

RT: 2.453 min Scan# 224

Delta R.T. -0.006 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

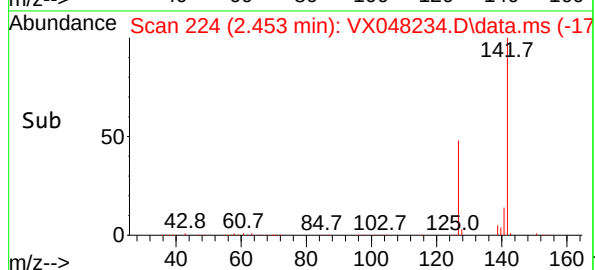
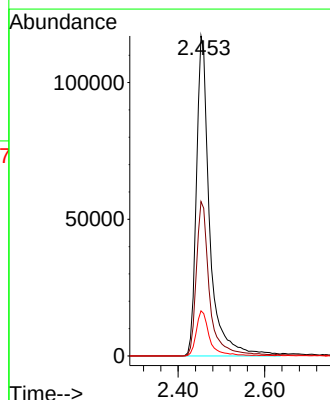
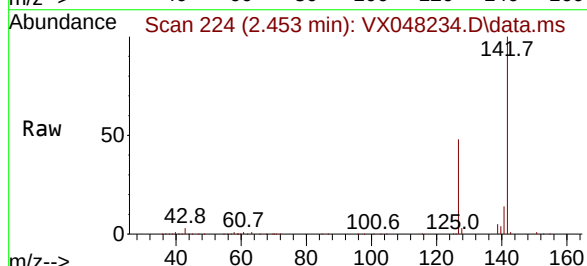
Tgt Ion:142 Resp: 249395

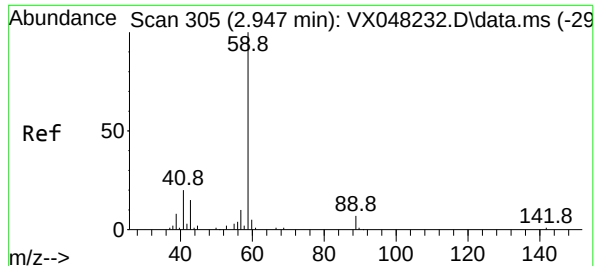
Ion Ratio Lower Upper

142 100

127 48.2 38.5 57.7

141 14.0 11.6 17.4





#11

Tert butyl alcohol

Concen: 931.439 ug/l

RT: 2.959 min Scan# 307

Delta R.T. 0.018 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 59 Resp: 10729

Ion Ratio Lower Upper

59 100

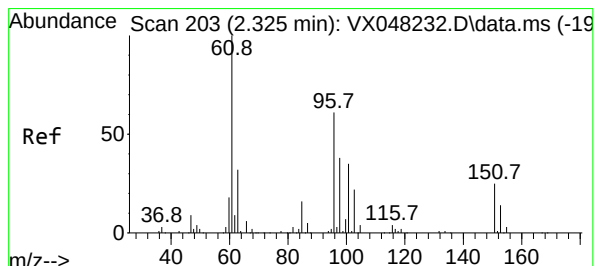
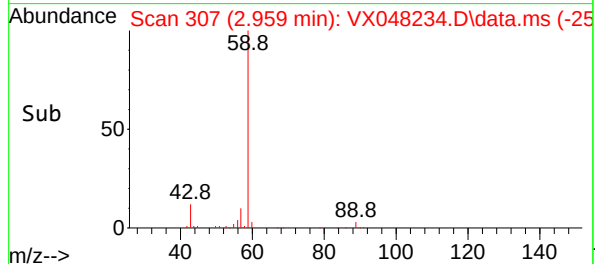
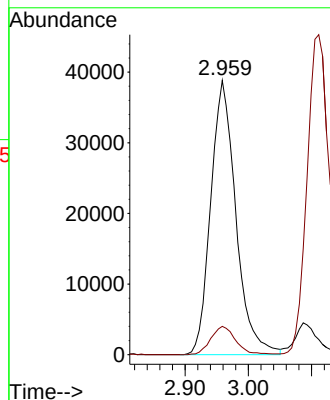
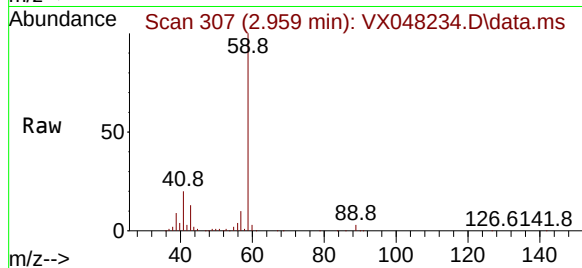
57 10.3 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#12

1,1-Dichloroethene

Concen: 137.389 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

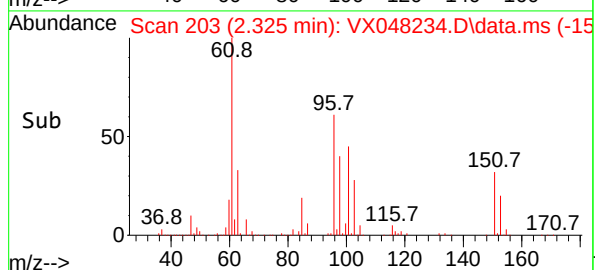
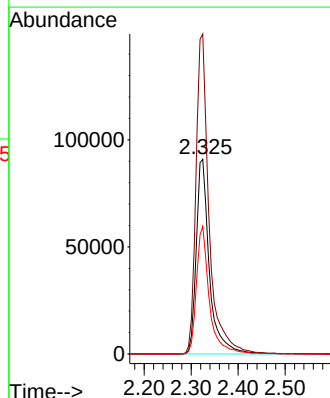
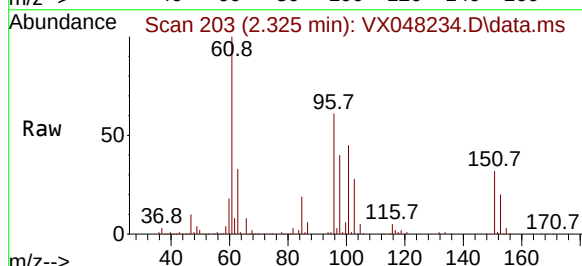
Tgt Ion: 96 Resp: 178408

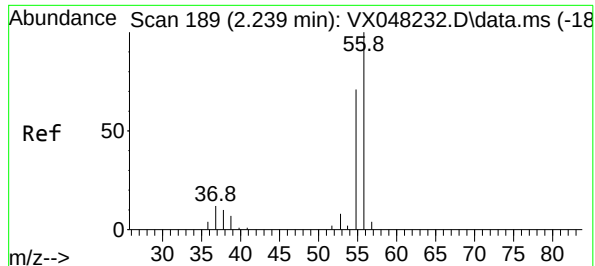
Ion Ratio Lower Upper

96 100

61 164.3 139.0 208.6

98 65.6 52.4 78.6





#13

Acrolein

Concen: 509.584 ug/l

RT: 2.239 min Scan# 189

Delta R.T. 0.006 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 12336

Ion Ratio Lower Upper

56 100

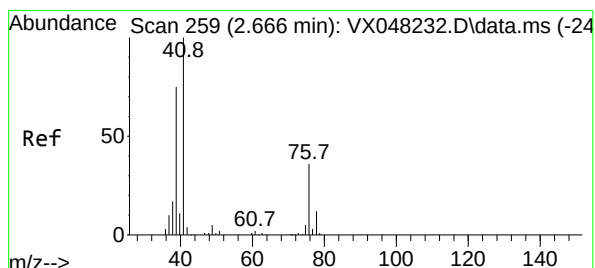
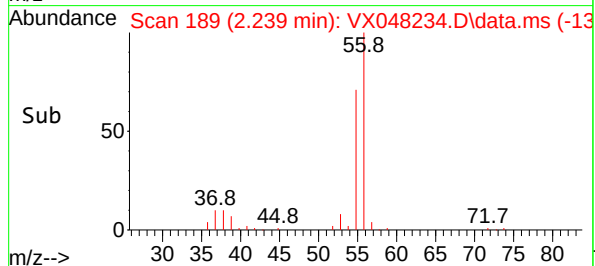
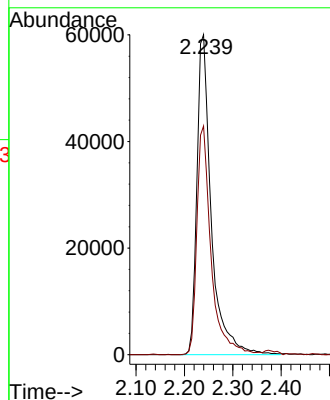
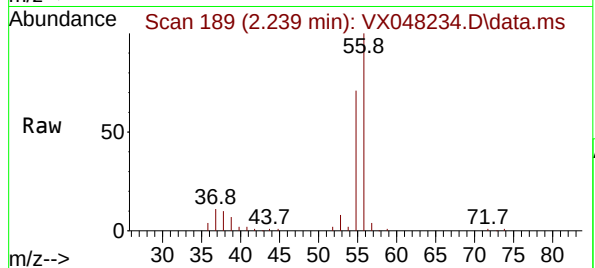
55 70.7 56.1 84.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#14

Allyl chloride

Concen: 125.734 ug/l

RT: 2.666 min Scan# 259

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

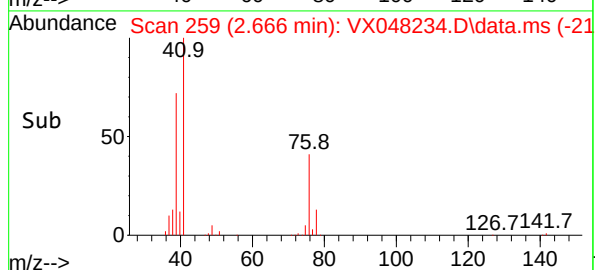
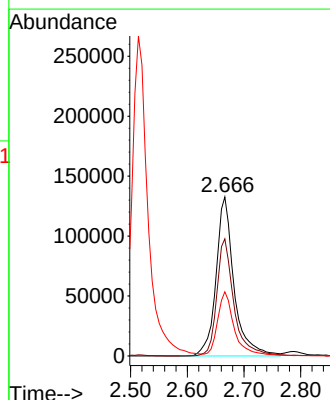
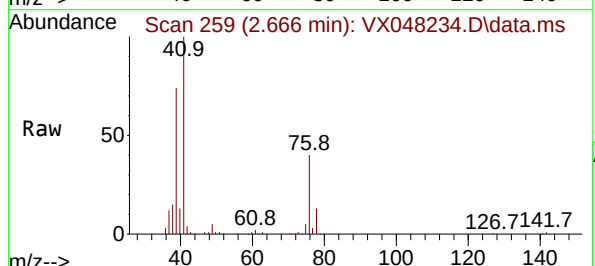
Tgt Ion: 41 Resp: 293697

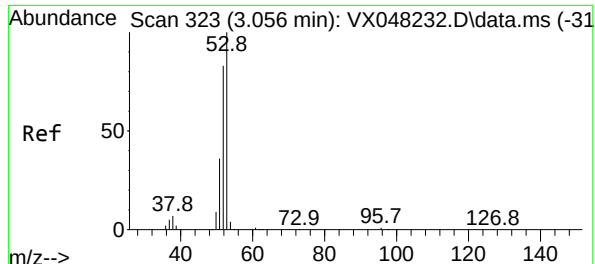
Ion Ratio Lower Upper

41 100

39 70.5 56.0 84.0

76 37.7 27.5 41.3





#15

Acrylonitrile

Concen: 748.019 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

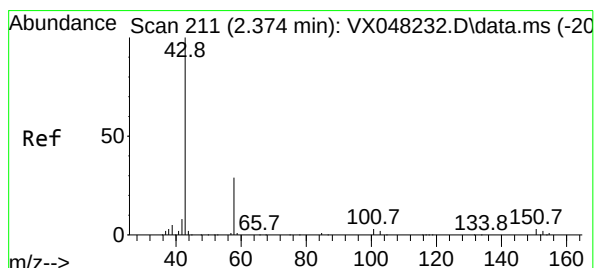
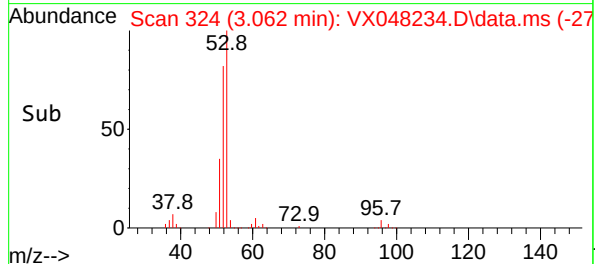
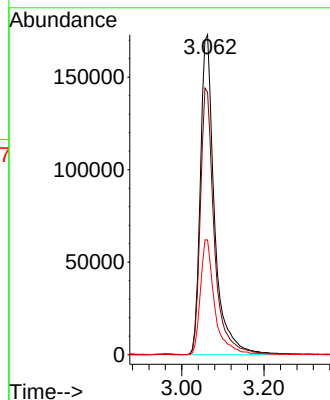
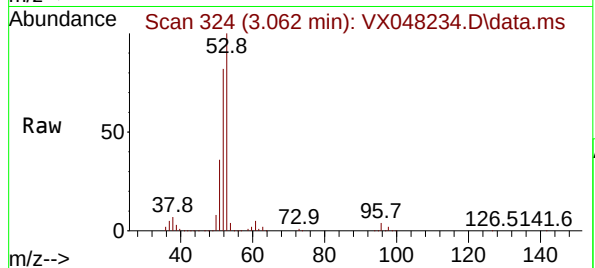
Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:	53	Resp:	41289
Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.1	99.1
51	36.5	29.0	43.4

Manual Integrations
APPROVEDReviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

#16

Acetone

Concen: 585.970 ug/l

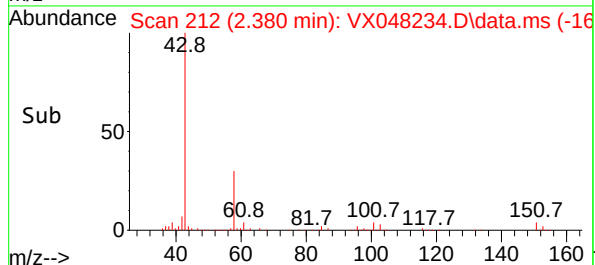
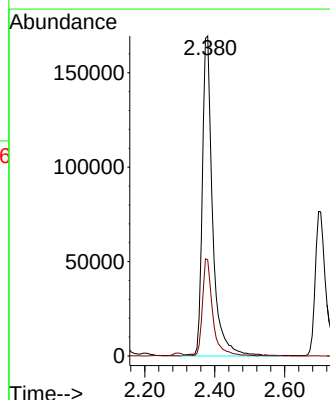
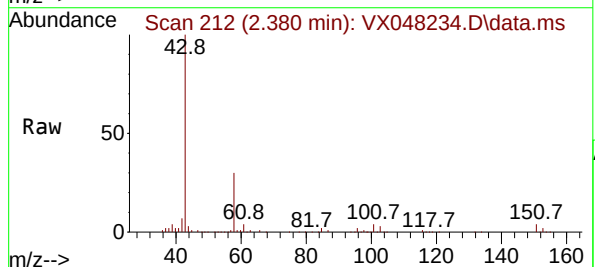
RT: 2.380 min Scan# 212

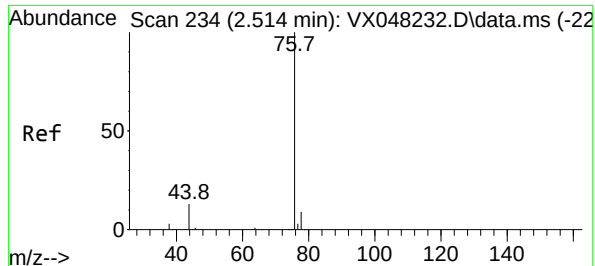
Delta R.T. 0.006 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Tgt Ion:	43	Resp:	347029
Ion	Ratio	Lower	Upper
43	100		
58	30.0	23.4	35.2





#17

Carbon Disulfide

Concen: 128.936 ug/l

RT: 2.514 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 515144

Ion Ratio Lower Upper

76 100

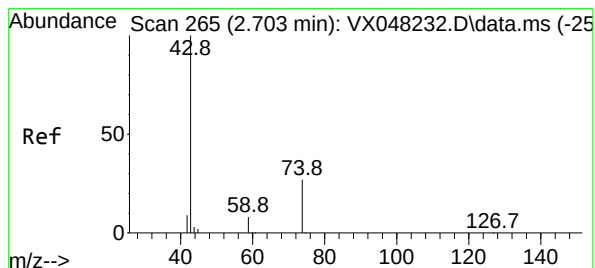
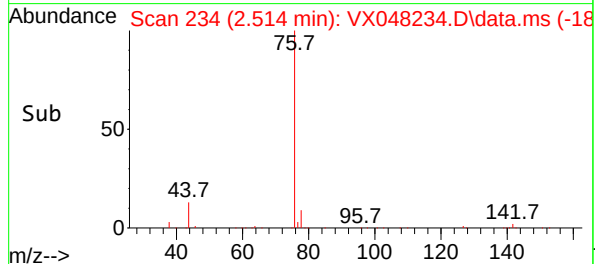
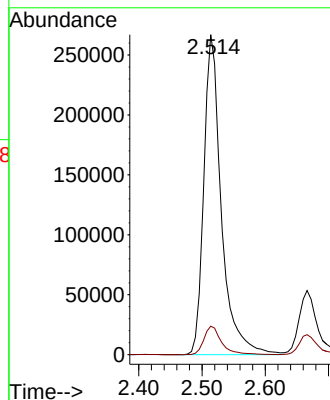
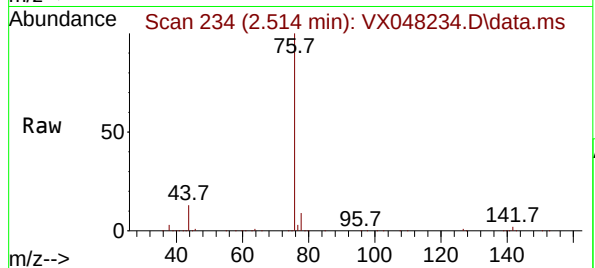
78 8.9 7.1 10.7

Manual Integrations

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Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#18

Methyl Acetate

Concen: 140.438 ug/l

RT: 2.697 min Scan# 264

Delta R.T. -0.000 min

Lab File: VX048234.D

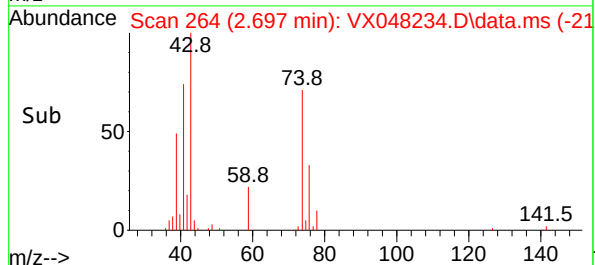
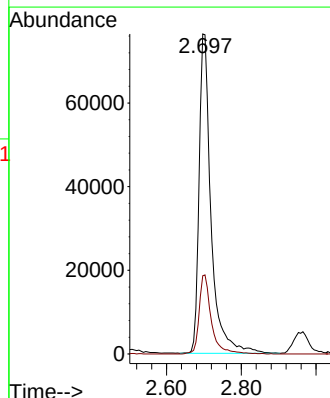
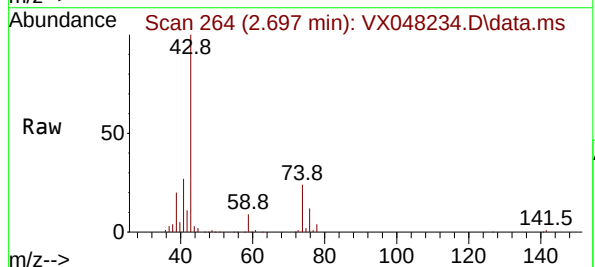
Acq: 20 Oct 2025 12:43

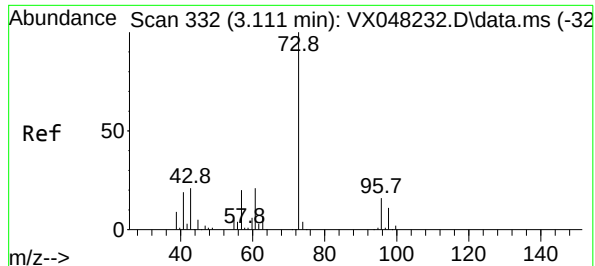
Tgt Ion: 43 Resp: 169402

Ion Ratio Lower Upper

43 100

74 25.2 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 151.611 ug/l

RT: 3.111 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 73 Resp: 59303

Ion Ratio Lower Upper

73 100

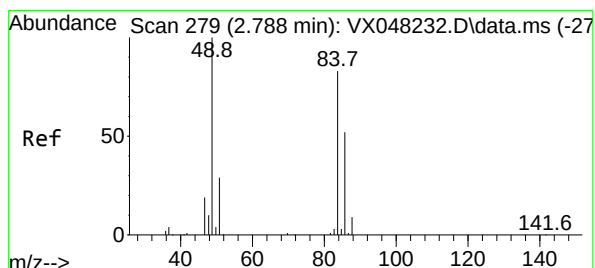
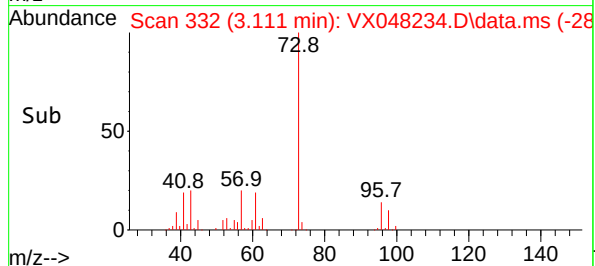
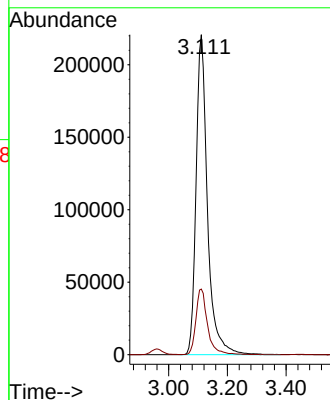
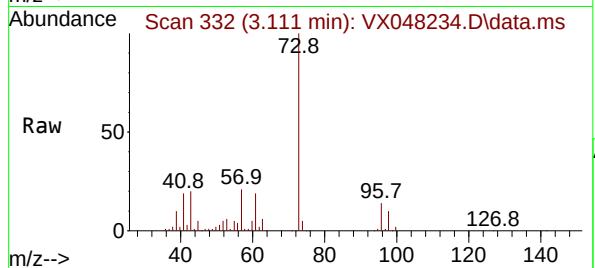
57 20.5 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#20

Methylene Chloride

Concen: 132.030 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Tgt Ion: 84 Resp: 190483

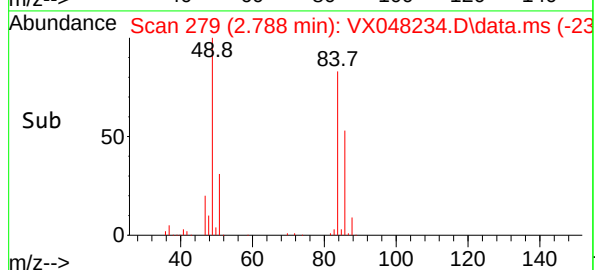
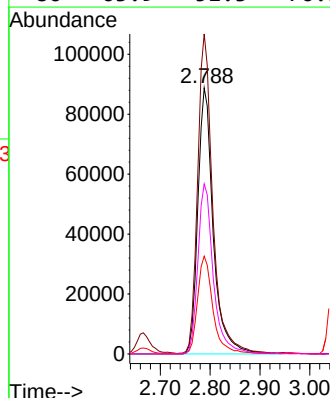
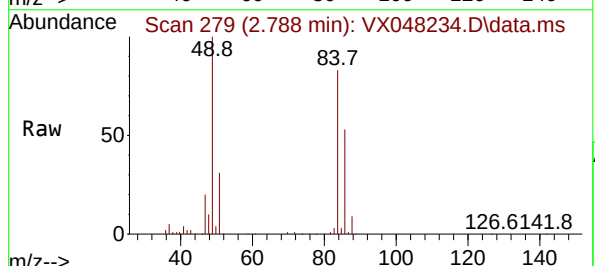
Ion Ratio Lower Upper

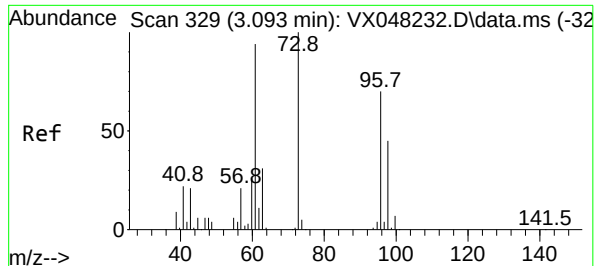
84 100

49 120.0 104.1 156.1

51 36.7 31.3 46.9

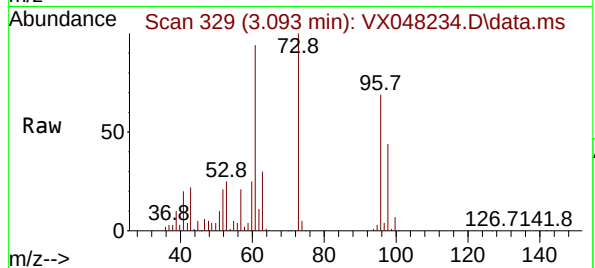
86 63.9 51.3 76.9





#21
trans-1,2-Dichloroethene
Concen: 139.566 ug/l
RT: 3.093 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

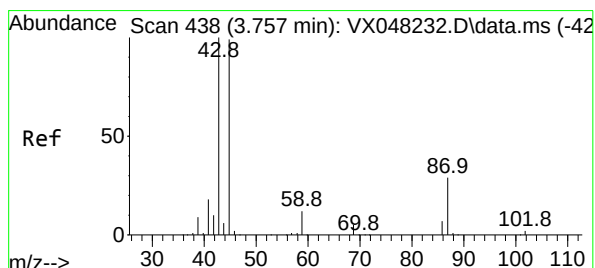
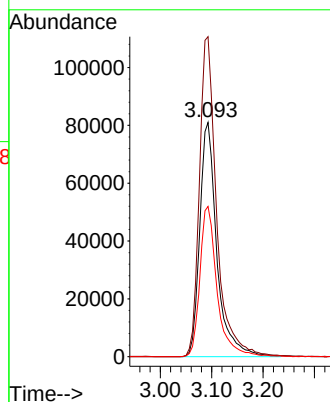
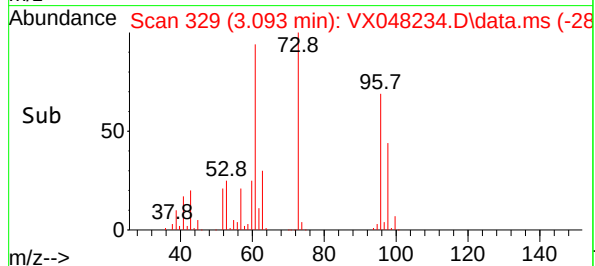
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 96 Resp: 18749
Ion Ratio Lower Upper
96 100
61 136.6 111.9 167.9
98 64.1 51.2 76.8

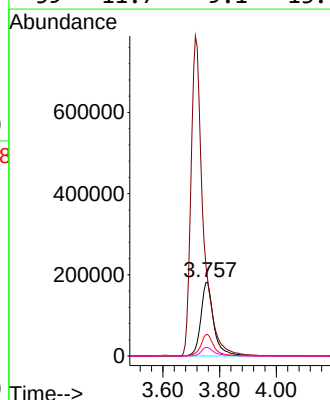
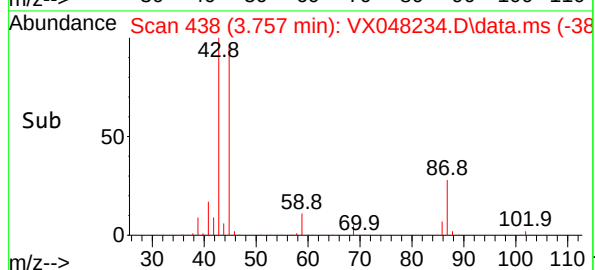
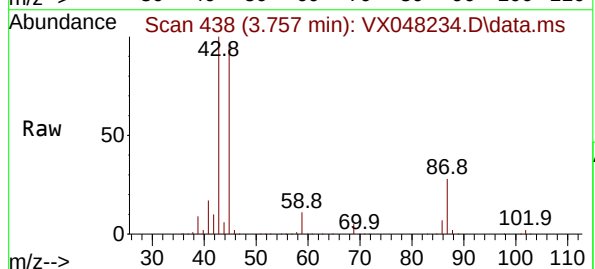
Manual Integrations
APPROVED

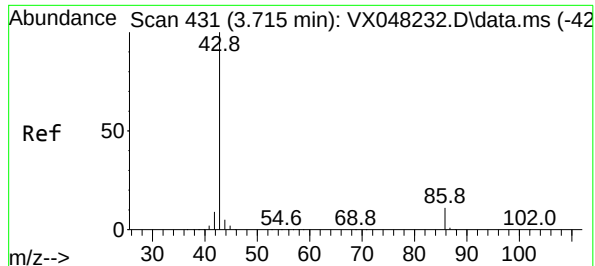
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#22
Diisopropyl ether
Concen: 125.048 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 45 Resp: 571951
Ion Ratio Lower Upper
45 100
43 104.2 89.8 134.8
87 29.4 20.6 31.0
59 11.7 9.1 13.7





#23

Vinyl Acetate

Concen: 692.251 ug/l

RT: 3.715 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 236751

Ion Ratio Lower Upper

43

100

86

11.3

7.9

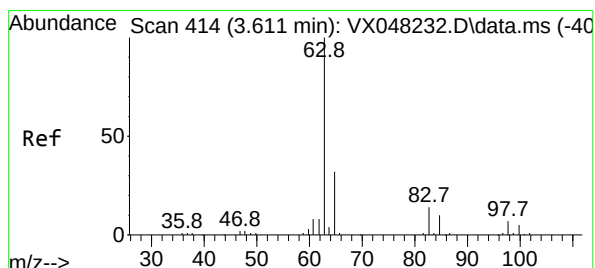
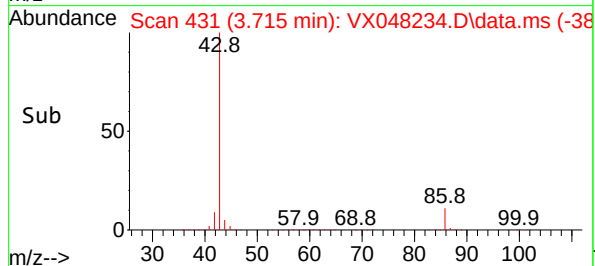
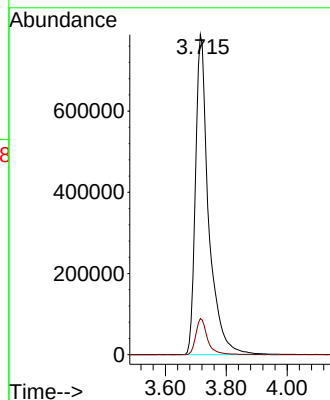
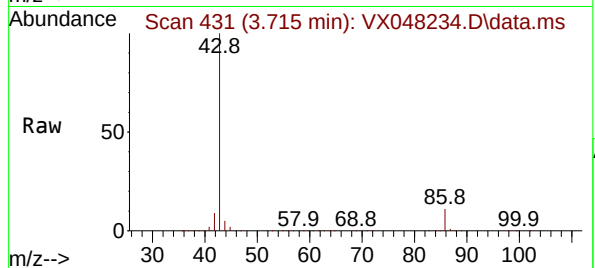
11.9

Manual Integrations

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Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#24

1,1-Dichloroethane

Concen: 131.992 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Tgt Ion: 63 Resp: 342500

Ion Ratio Lower Upper

63

100

98

7.0

3.5

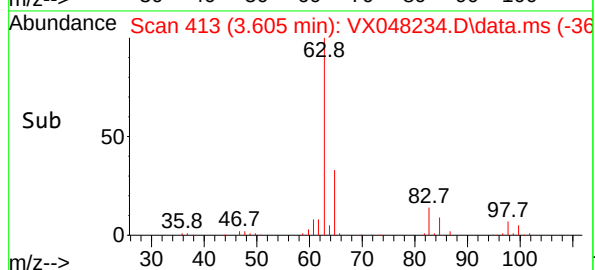
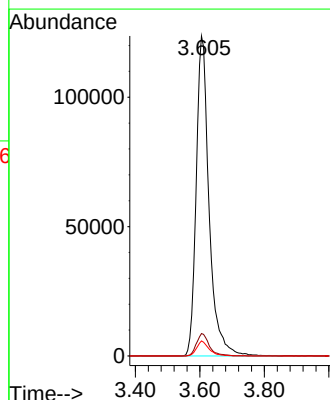
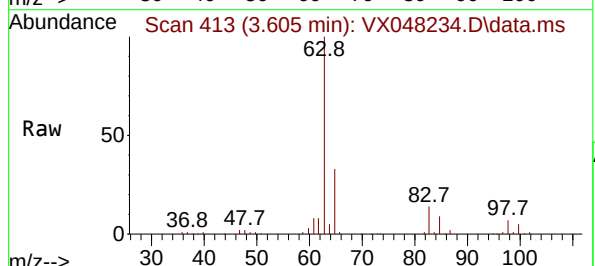
10.6

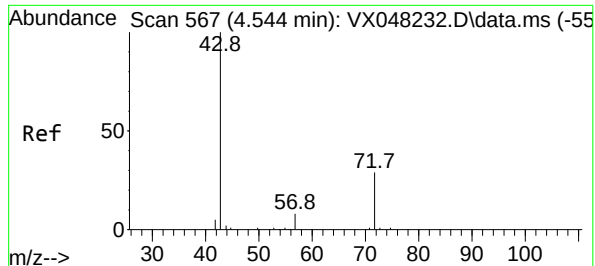
100

4.7

2.1

6.3





#25

2-Butanone

Concen: 706.046 ug/l

RT: 4.544 min Scan# 50

Delta R.T. 0.006 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 48715

Ion Ratio Lower Upper

43 100

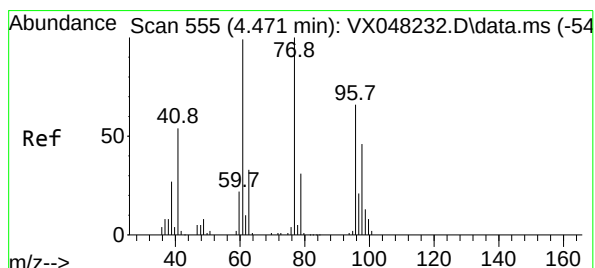
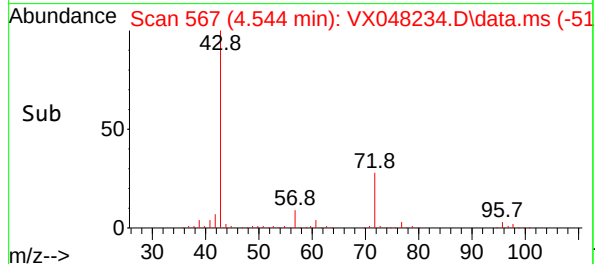
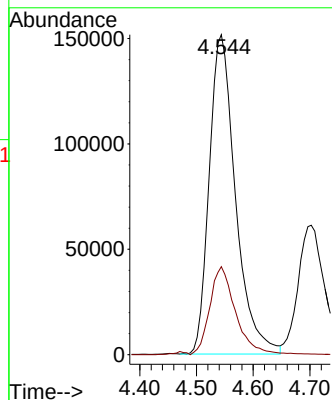
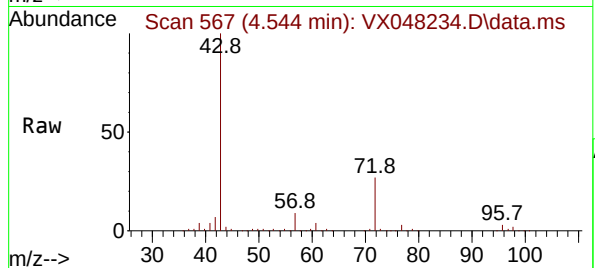
72 27.0 19.9 29.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#26

2,2-Dichloropropane

Concen: 140.027 ug/l

RT: 4.465 min Scan# 554

Delta R.T. -0.000 min

Lab File: VX048234.D

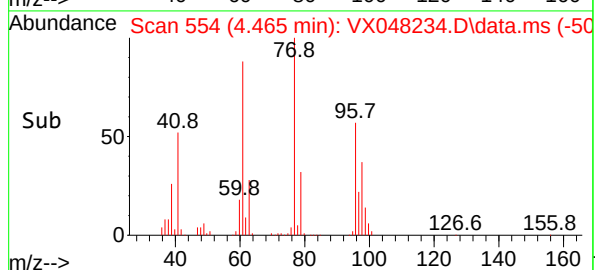
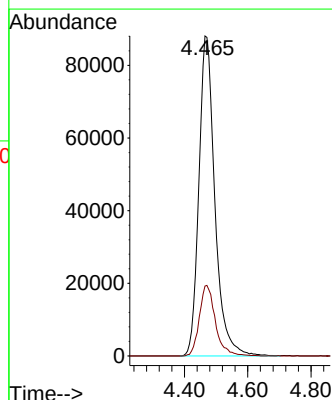
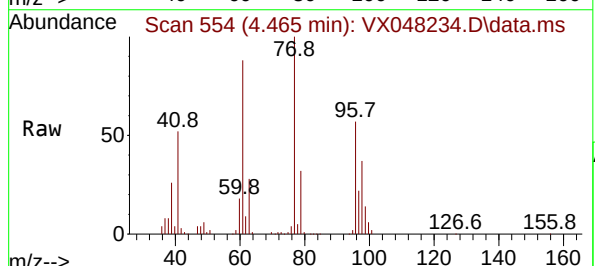
Acq: 20 Oct 2025 12:43

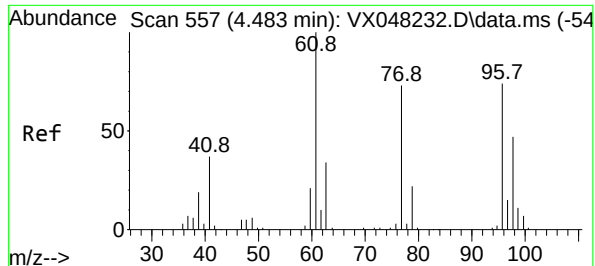
Tgt Ion: 77 Resp: 310572

Ion Ratio Lower Upper

77 100

97 22.2 11.1 33.3





#27

cis-1,2-Dichloroethene

Concen: 139.465 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 22235

Ion Ratio Lower Upper

96 100

61 144.4 0.0 294.2

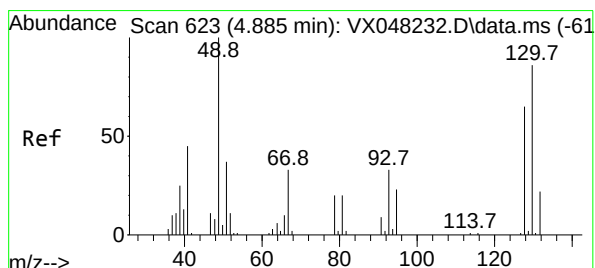
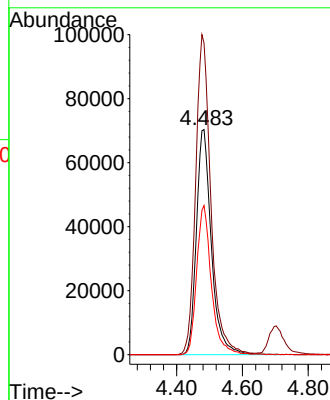
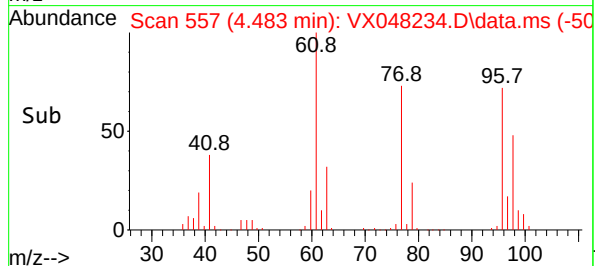
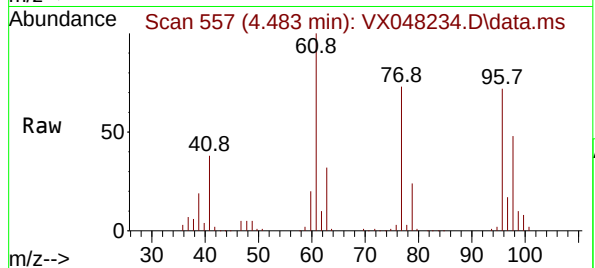
98 65.1 0.0 128.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#28

Bromochloromethane

Concen: 126.922 ug/l

RT: 4.891 min Scan# 624

Delta R.T. 0.006 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

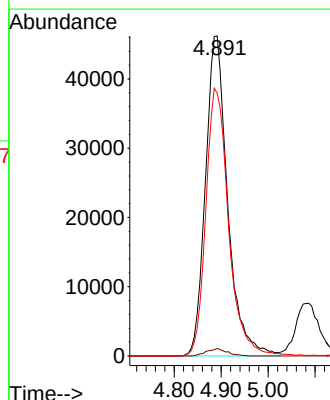
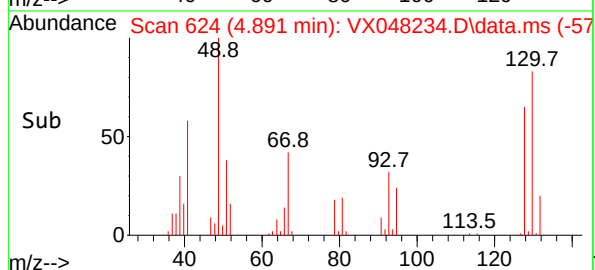
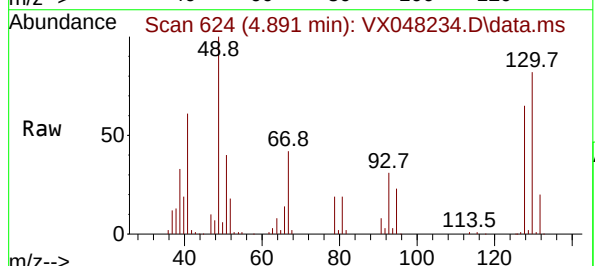
Tgt Ion: 49 Resp: 151812

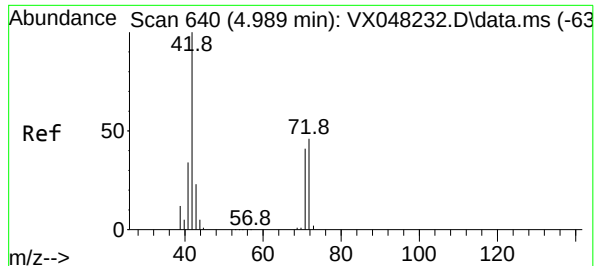
Ion Ratio Lower Upper

49 100

129 2.1 0.0 4.4

130 85.6 59.3 88.9





#29

Tetrahydrofuran

Concen: 744.697 ug/l

RT: 4.989 min Scan# 640

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 42 Resp: 30174

Ion Ratio Lower Upper

42 100

72 47.8 35.3 52.9

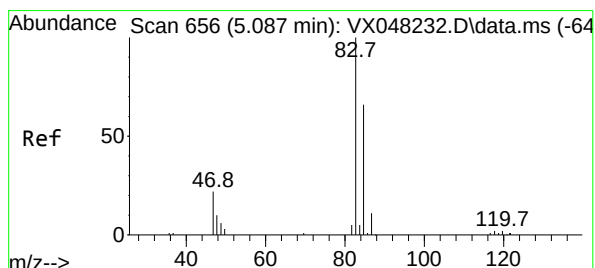
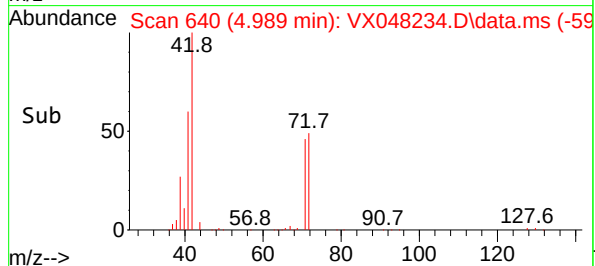
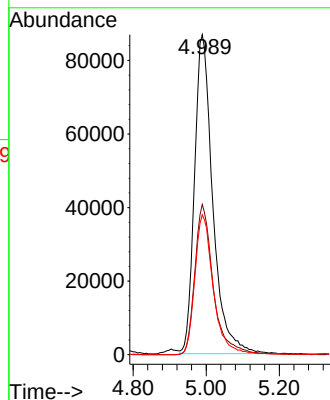
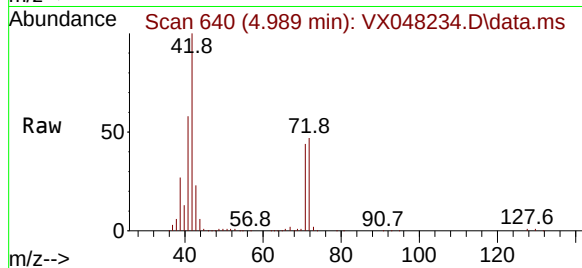
71 44.1 32.2 48.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#30

Chloroform

Concen: 131.272 ug/l

RT: 5.080 min Scan# 655

Delta R.T. -0.000 min

Lab File: VX048234.D

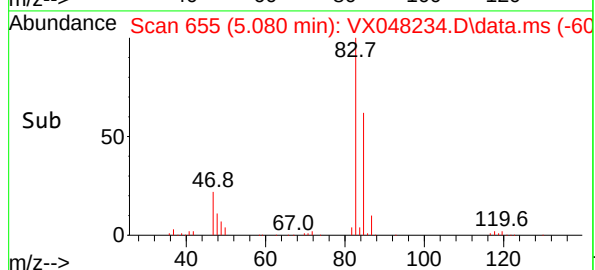
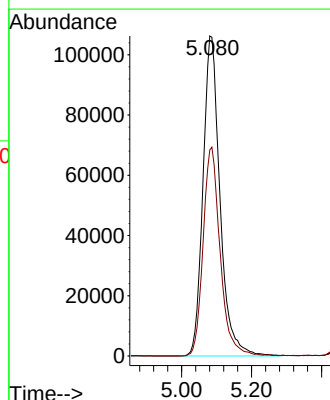
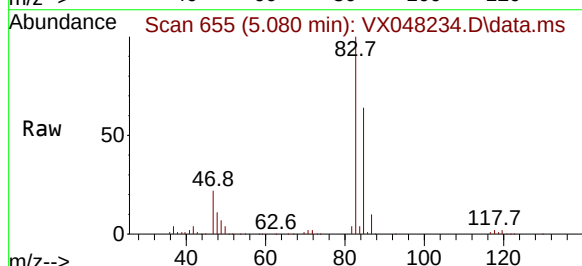
Acq: 20 Oct 2025 12:43

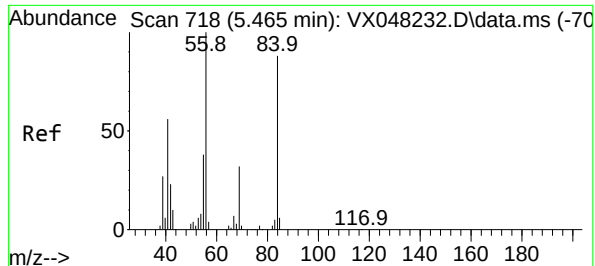
Tgt Ion: 83 Resp: 358626

Ion Ratio Lower Upper

83 100

85 64.3 50.1 75.1





#31

Cyclohexane

Concen: 137.199 ug/l

RT: 5.464 min Scan# 718

Delta R.T. 0.006 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 29130

Ion Ratio Lower Upper

56 100

69 32.3 23.0 34.6

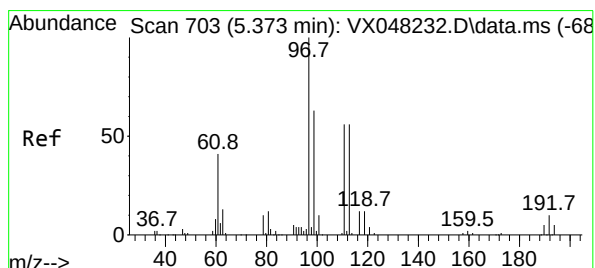
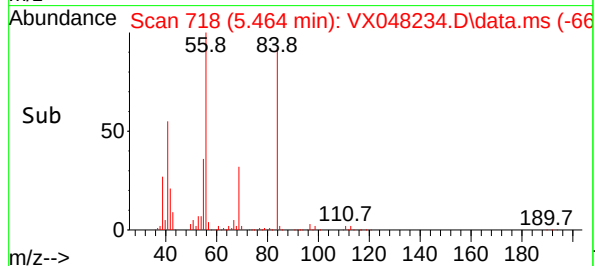
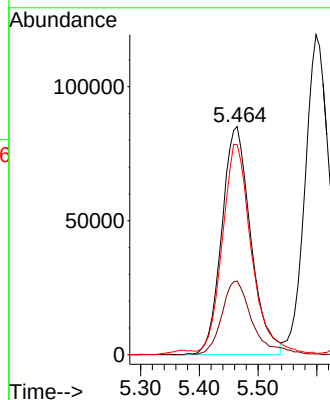
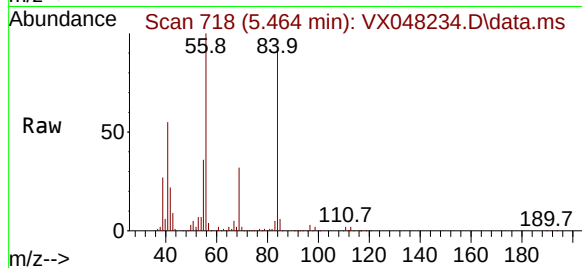
84 90.1 64.6 97.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#32

1,1,1-Trichloroethane

Concen: 150.785 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

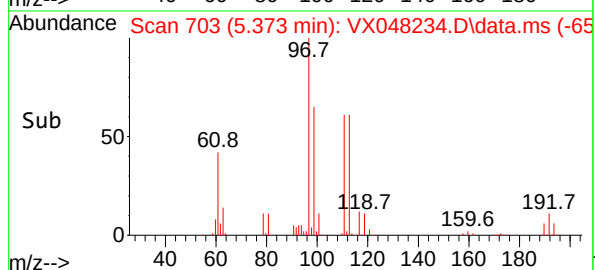
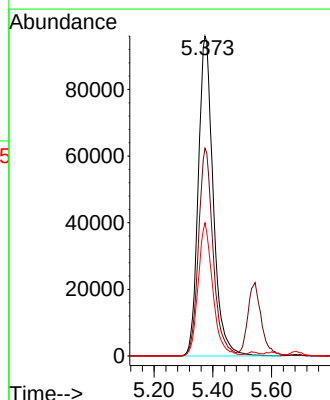
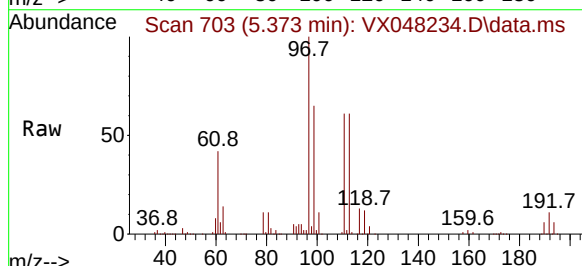
Tgt Ion: 97 Resp: 338462

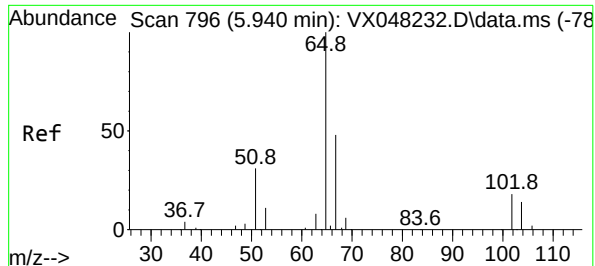
Ion Ratio Lower Upper

97 100

99 63.8 51.7 77.5

61 40.8 34.8 52.2





#33

1,2-Dichloroethane-d4

Concen: 135.251 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 65 Resp: 23480

Ion Ratio Lower Upper

65 100

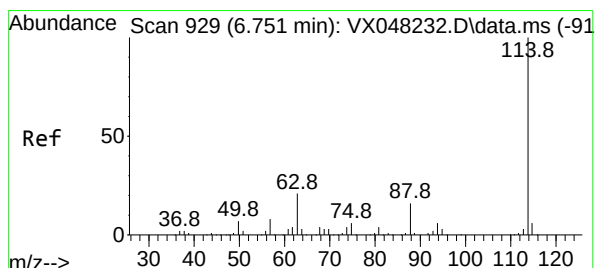
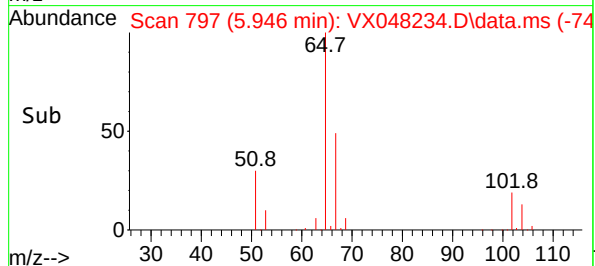
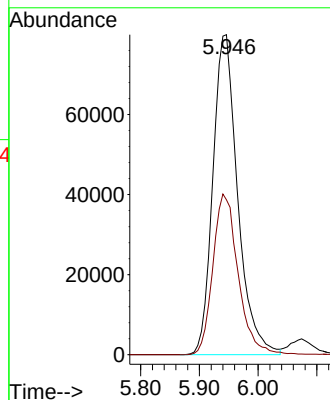
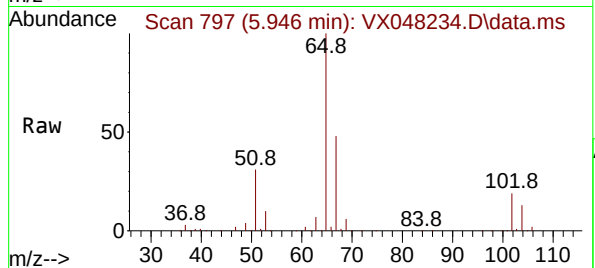
67 51.2 0.0 105.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

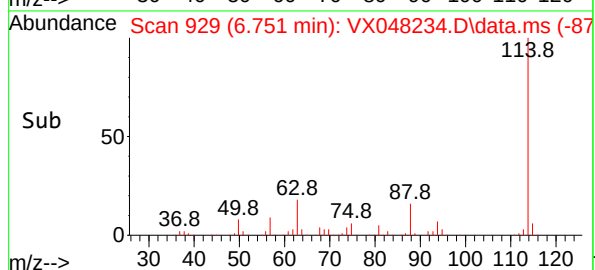
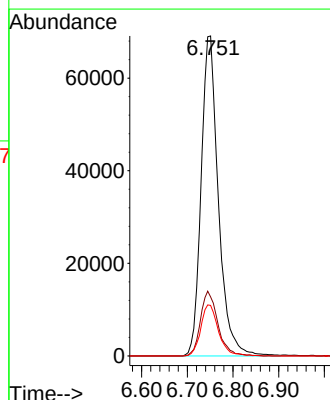
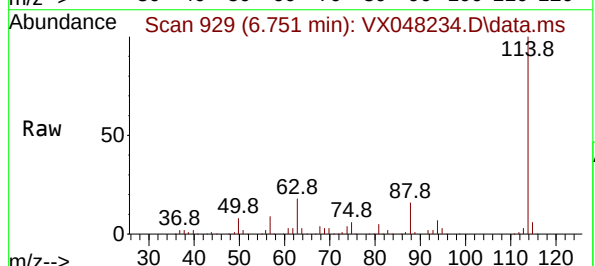
Tgt Ion:114 Resp: 180904

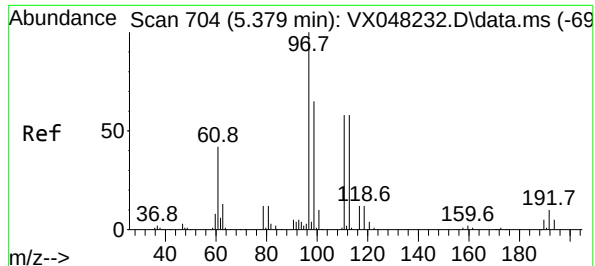
Ion Ratio Lower Upper

114 100

63 18.4 0.0 43.2

88 15.8 0.0 33.6





#35

Dibromofluoromethane

Concen: 150.393 ug/l

RT: 5.373 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:113 Resp: 18882

Ion Ratio Lower Upper

113 100

111 101.5 82.2 123.4

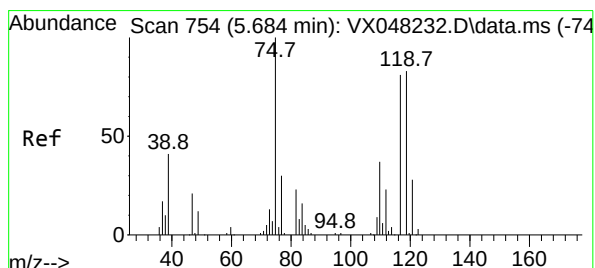
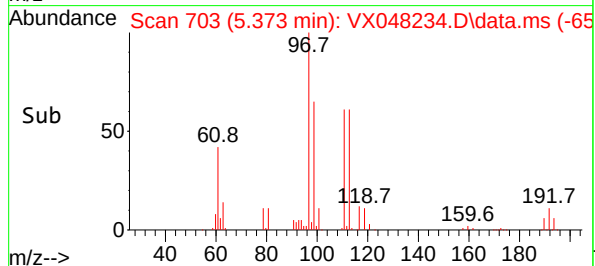
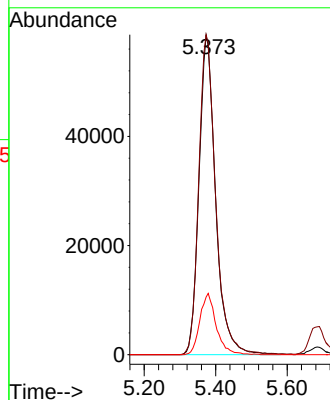
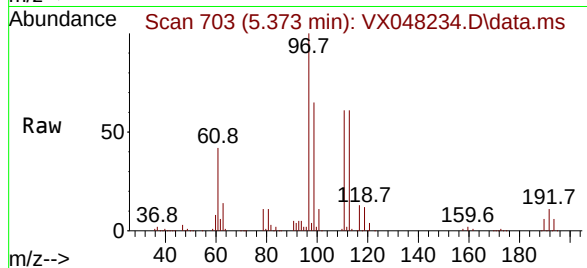
192 18.8 15.1 22.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#36

1,1-Dichloropropene

Concen: 141.173 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

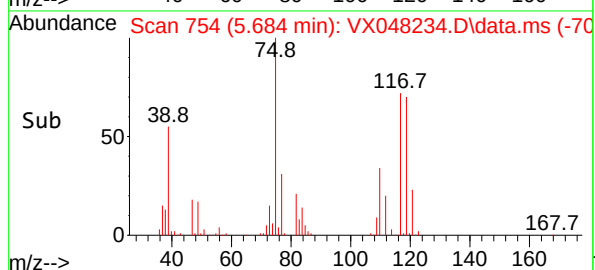
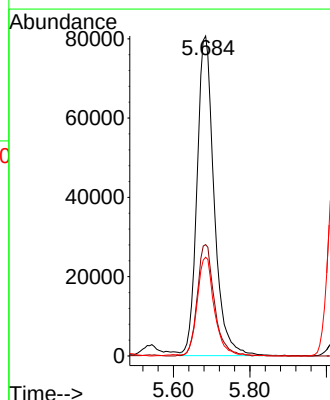
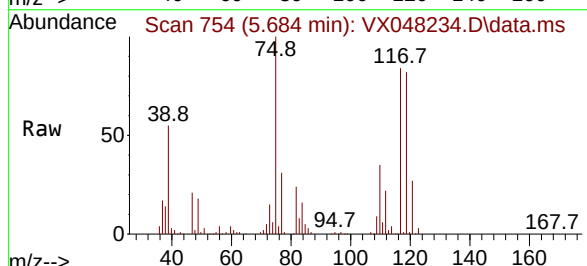
Tgt Ion: 75 Resp: 249688

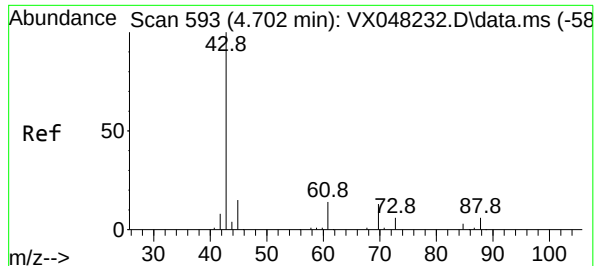
Ion Ratio Lower Upper

75 100

110 35.0 17.7 53.1

77 31.2 24.3 36.5





#37

Ethyl Acetate

Concen: 147.588 ug/l

RT: 4.702 min Scan# 593

Delta R.T. 0.006 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 208614

Ion Ratio Lower Upper

43 100

61 14.1 10.6 15.8

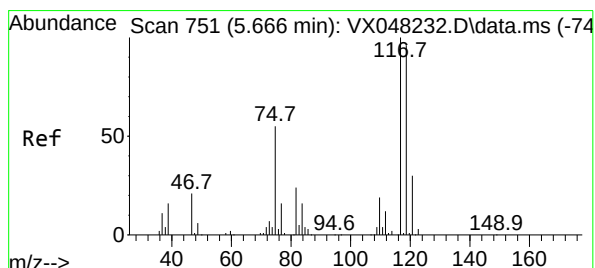
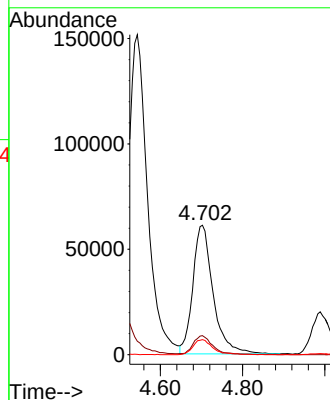
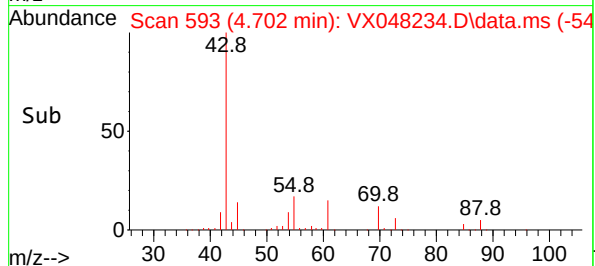
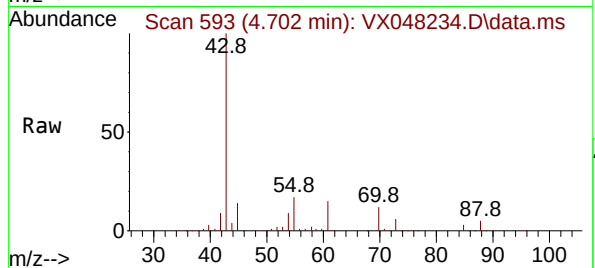
70 11.2 7.8 11.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#38

Carbon Tetrachloride

Concen: 151.663 ug/l

RT: 5.666 min Scan# 751

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

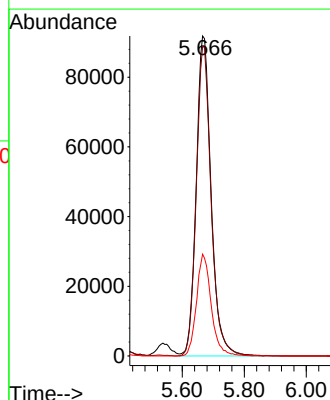
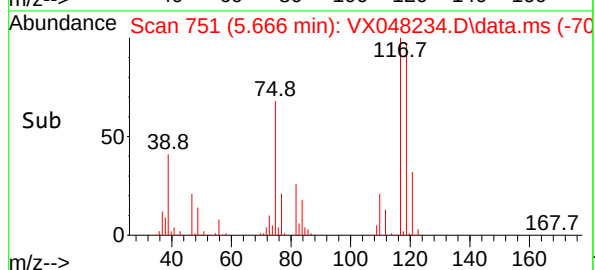
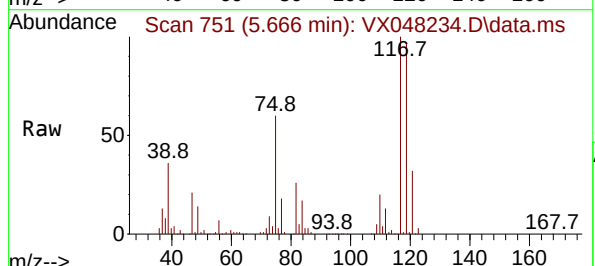
Tgt Ion:117 Resp: 307892

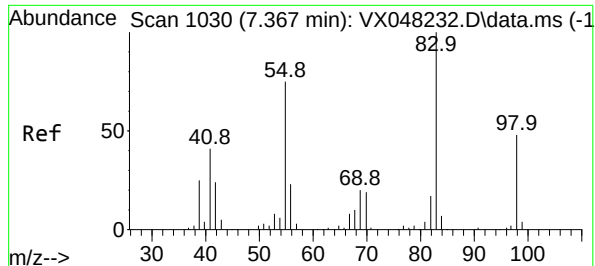
Ion Ratio Lower Upper

117 100

119 96.6 77.2 115.8

121 31.8 24.8 37.2





#39

Methylcyclohexane

Concen: 158.416 ug/l

RT: 7.367 min Scan# 1030

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 31591

Ion Ratio Lower Upper

83 100

55 76.9 66.2 99.2

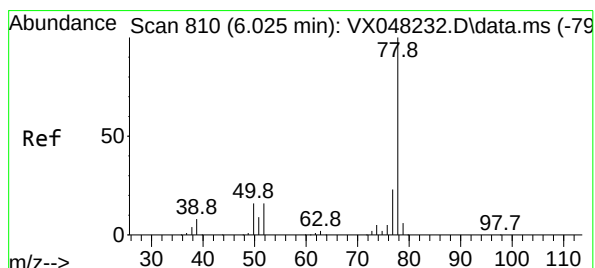
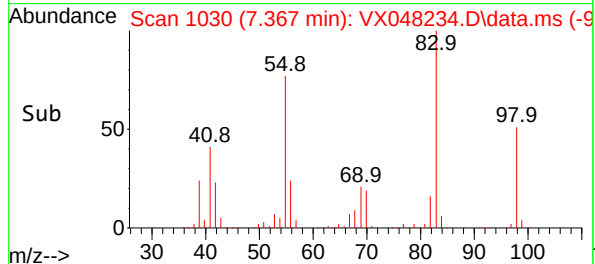
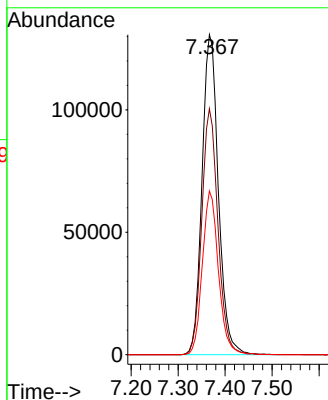
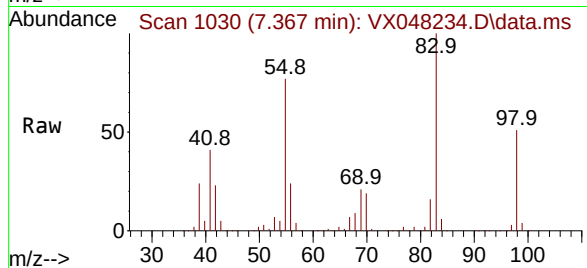
98 51.1 38.9 58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#40

Benzene

Concen: 139.172 ug/l

RT: 6.025 min Scan# 810

Delta R.T. -0.000 min

Lab File: VX048234.D

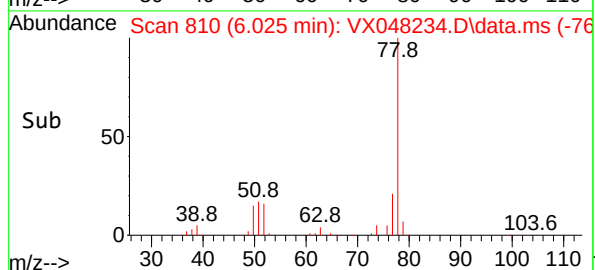
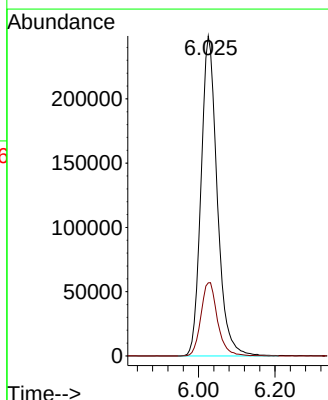
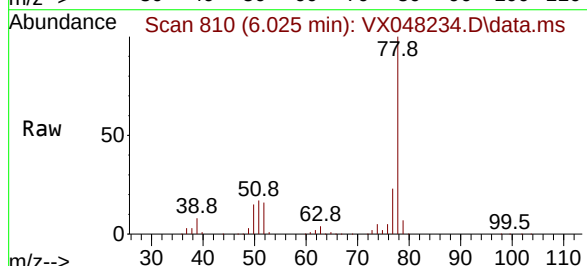
Acq: 20 Oct 2025 12:43

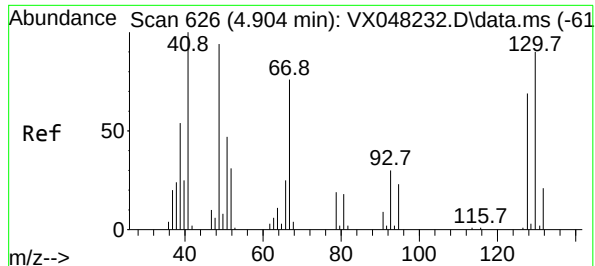
Tgt Ion: 78 Resp: 730908

Ion Ratio Lower Upper

78 100

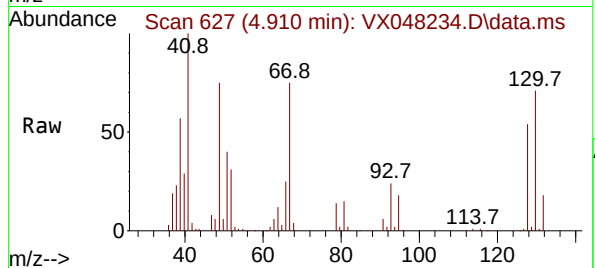
77 22.8 19.3 28.9





#41
Methacrylonitrile
Concen: 152.378 ug/l
RT: 4.910 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

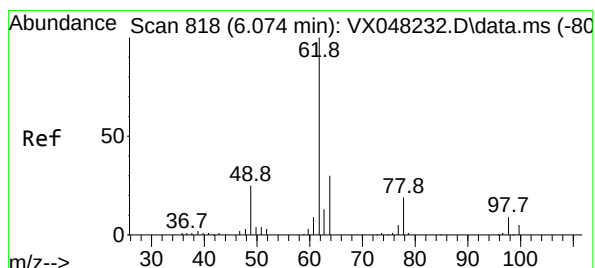
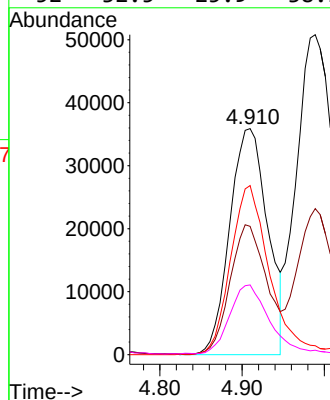
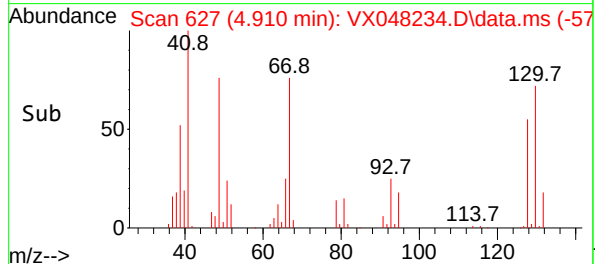
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 41 Resp: 11535
Ion Ratio Lower Upper
41 100
39 55.0 44.0 66.0
67 78.1 58.7 88.1
52 32.5 25.9 38.9

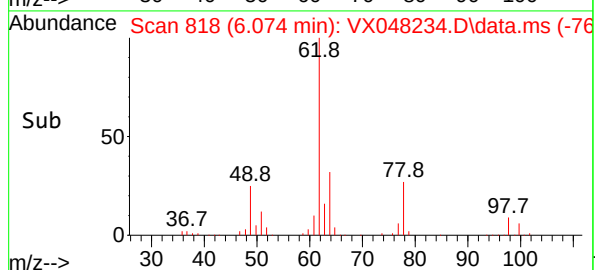
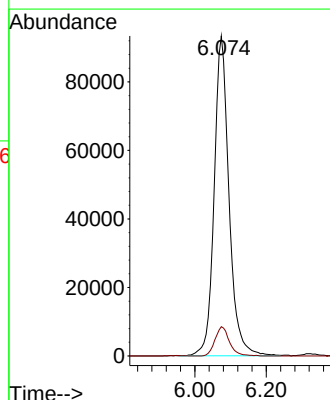
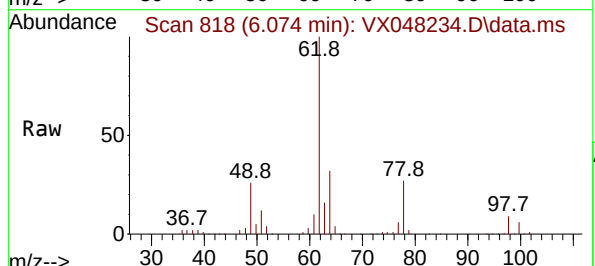
Manual Integrations
APPROVED

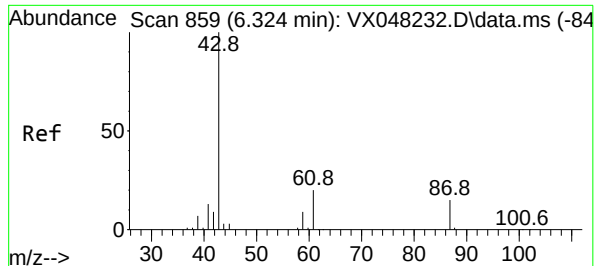
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#42
1,2-Dichloroethane
Concen: 143.093 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 62 Resp: 269245
Ion Ratio Lower Upper
62 100
98 8.9 0.0 17.2





#43

Isopropyl Acetate

Concen: 152.180 ug/l

RT: 6.324 min Scan# 859

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

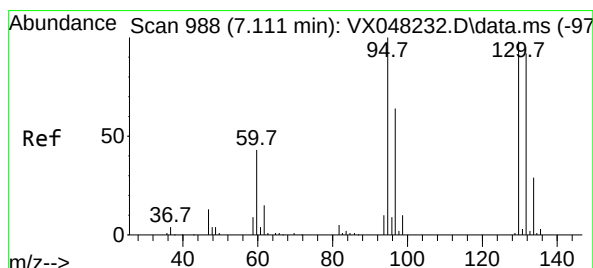
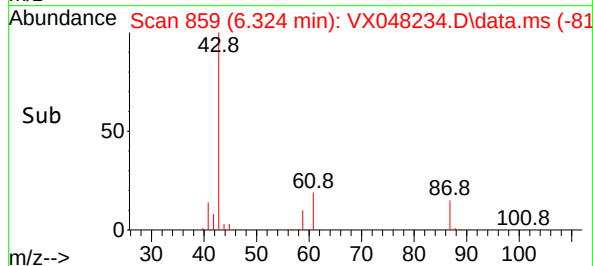
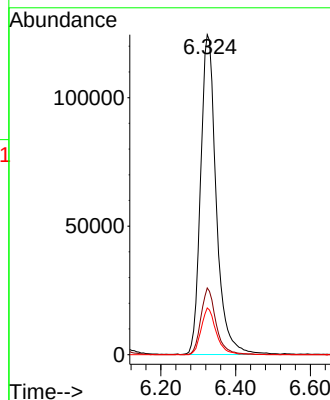
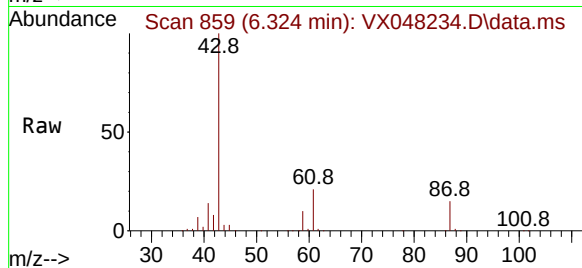
VSTDICC150

Tgt Ion:	43	Resp:	361084
Ion	Ratio	Lower	Upper
43	100		
61	20.2	14.9	22.3
87	14.0	9.4	14.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#44

Trichloroethene

Concen: 149.022 ug/l

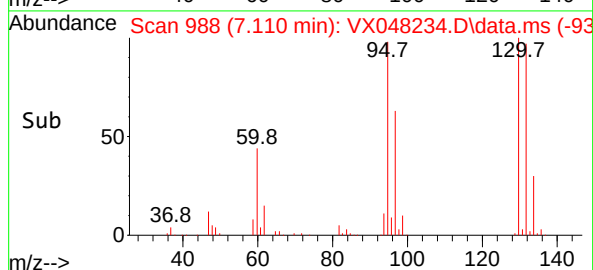
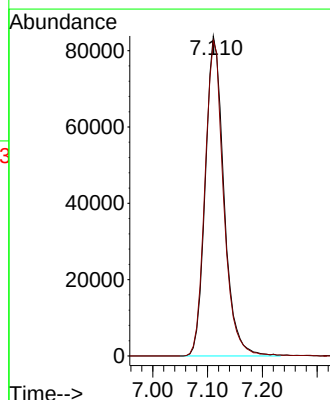
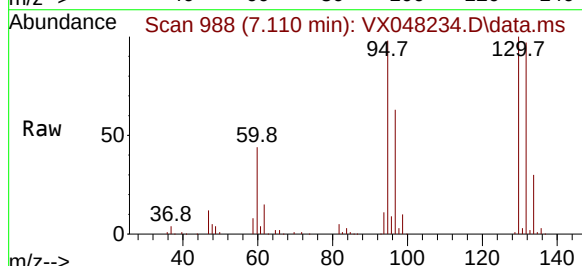
RT: 7.110 min Scan# 988

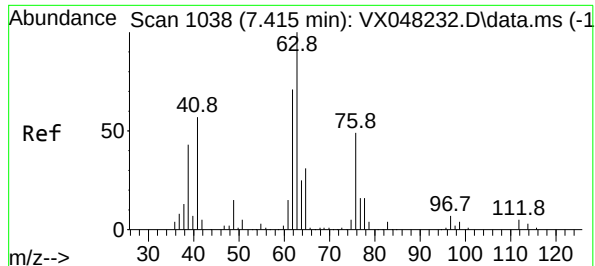
Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Tgt Ion:	130	Resp:	197244
Ion	Ratio	Lower	Upper
130	100		
95	98.5	0.0	200.6





#45

1,2-Dichloropropane

Concen: 135.890 ug/l

RT: 7.415 min Scan# 1038

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 63 Resp: 180619

Ion Ratio Lower Upper

63 100

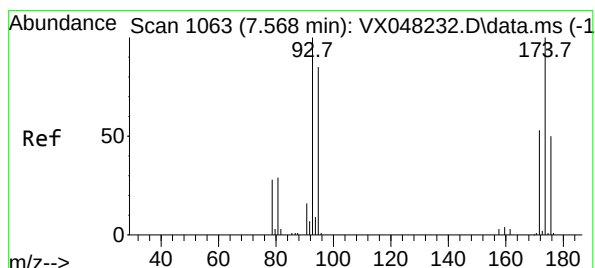
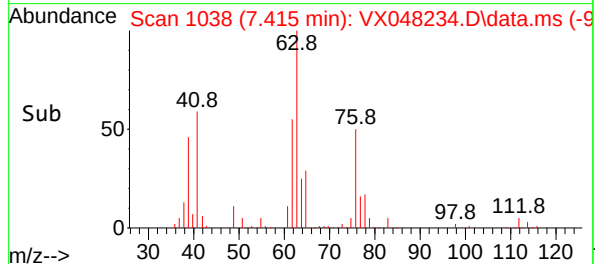
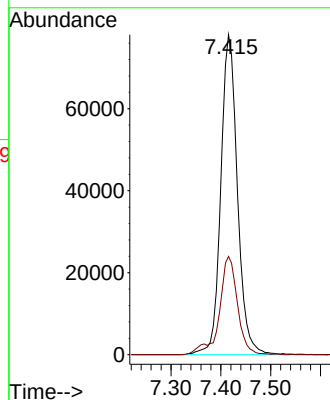
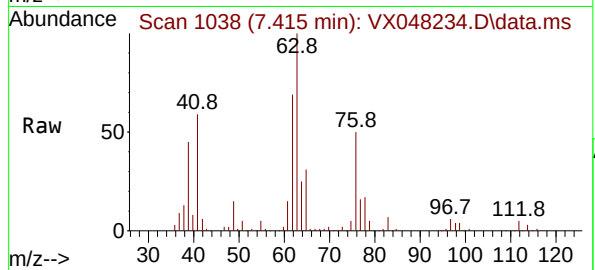
65 30.7 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#46

Dibromomethane

Concen: 141.273 ug/l

RT: 7.568 min Scan# 1063

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

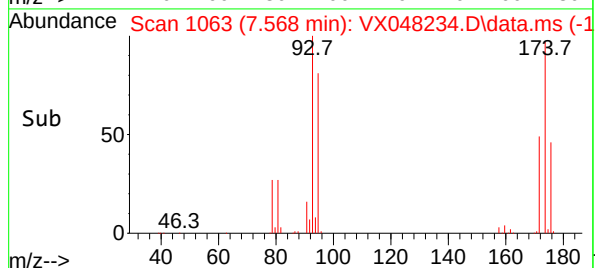
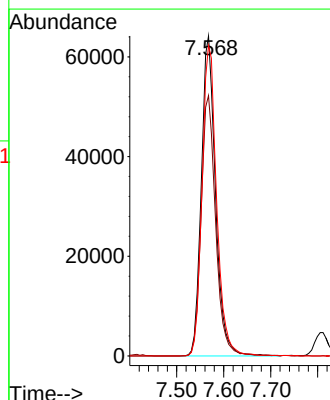
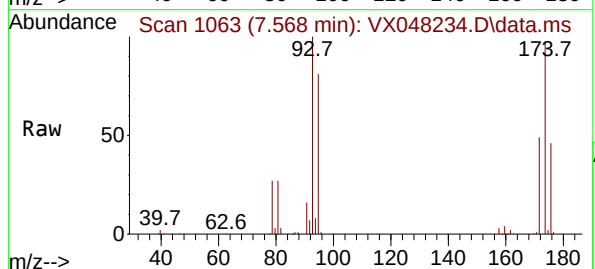
Tgt Ion: 93 Resp: 135105

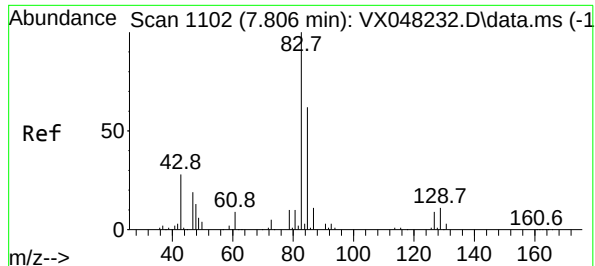
Ion Ratio Lower Upper

93 100

95 82.9 65.9 98.9

174 99.5 71.7 107.5





#47

Bromodichloromethane

Concen: 141.302 ug/l

RT: 7.805 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

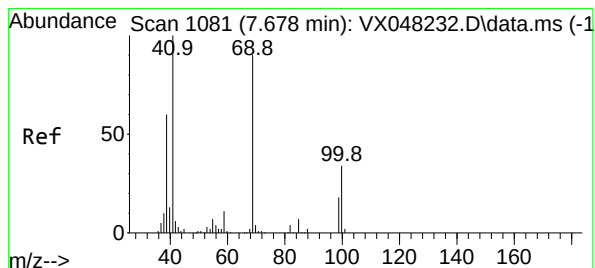
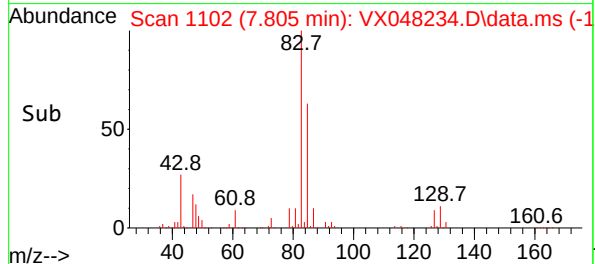
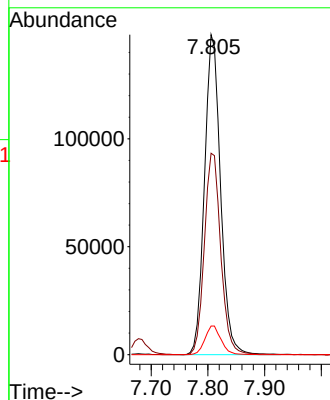
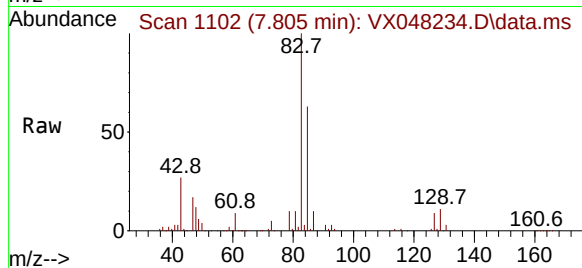
VSTDIC150

Tgt Ion:	83	Resp:	29206
Ion	Ratio	Lower	Upper
83	100		
85	62.9	52.2	78.4
127	8.9	7.3	10.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#48

Methyl methacrylate

Concen: 151.780 ug/l

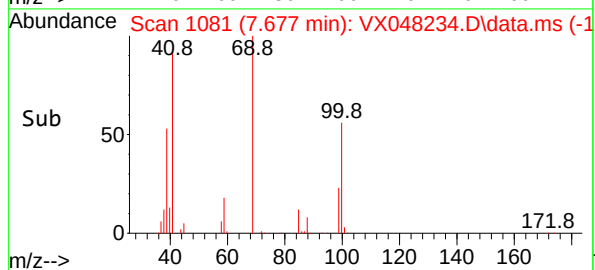
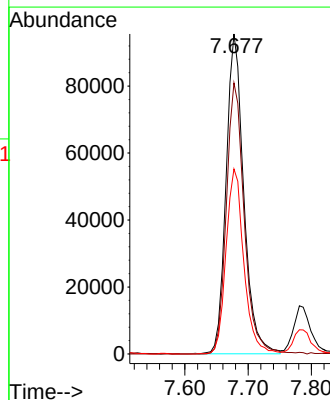
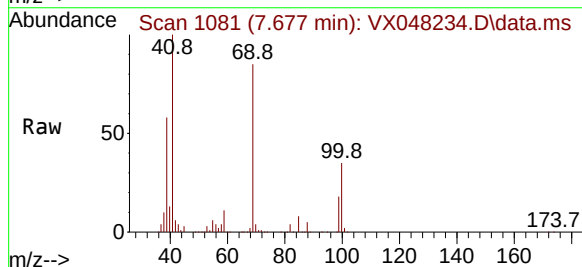
RT: 7.677 min Scan# 1081

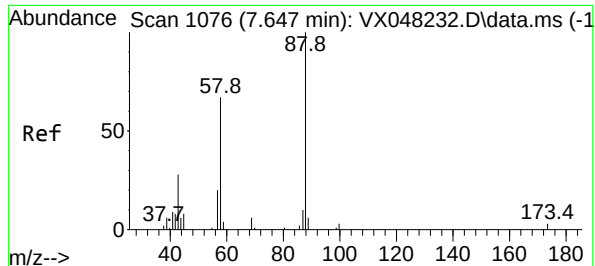
Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Tgt Ion:	41	Resp:	184354
Ion	Ratio	Lower	Upper
41	100		
69	86.0	63.4	95.0
39	58.5	47.1	70.7





#49

1,4-Dioxane

Concen: 4563.512 ug/l

RT: 7.647 min Scan# 1076

Delta R.T. 0.006 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

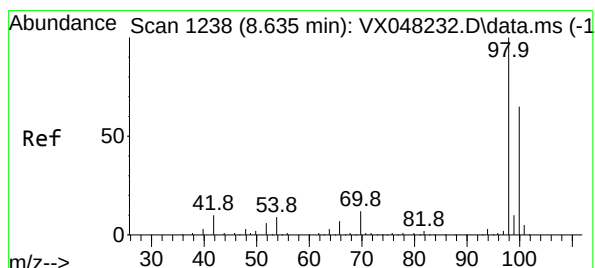
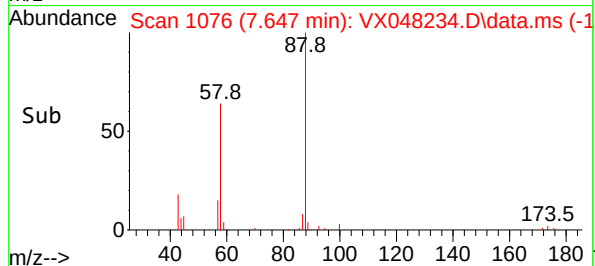
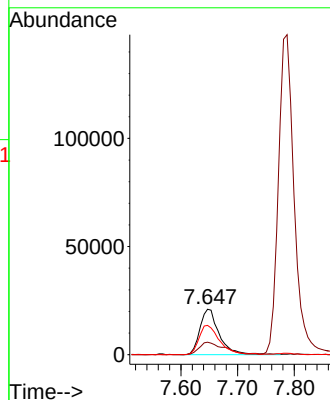
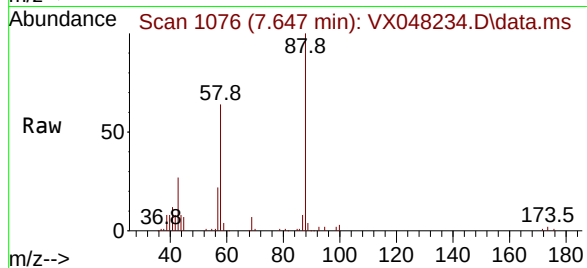
VSTDICC150

Tgt Ion:	88	Resp:	4989
Ion	Ratio	Lower	Upper
88	100		
43	35.6	35.0	52.4
58	67.7	61.9	92.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#50

Toluene-d8

Concen: 143.408 ug/l

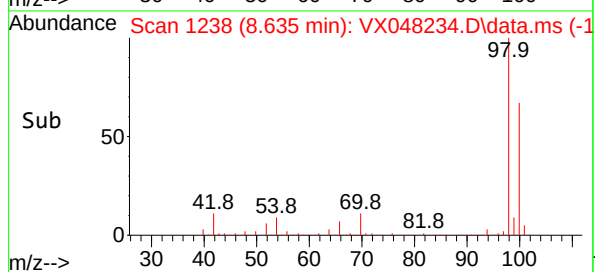
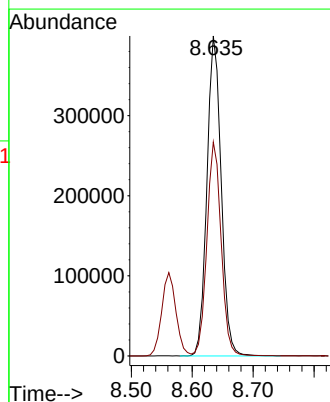
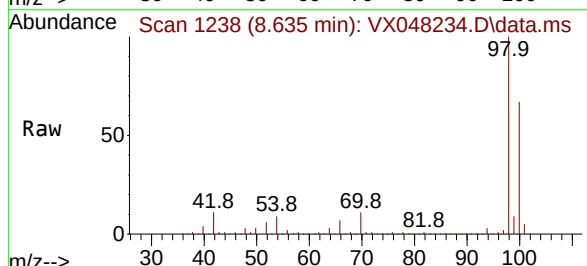
RT: 8.635 min Scan# 1238

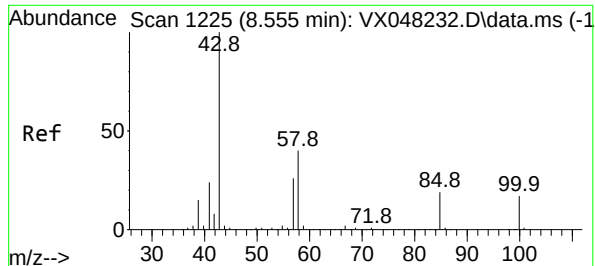
Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Tgt Ion:	98	Resp:	648652
Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.0	79.4





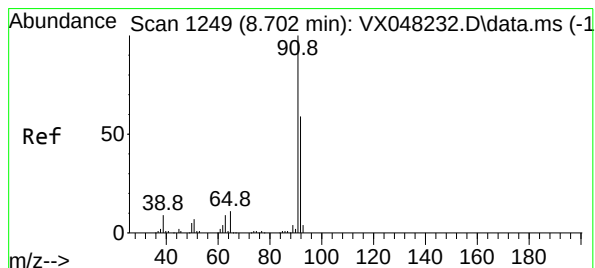
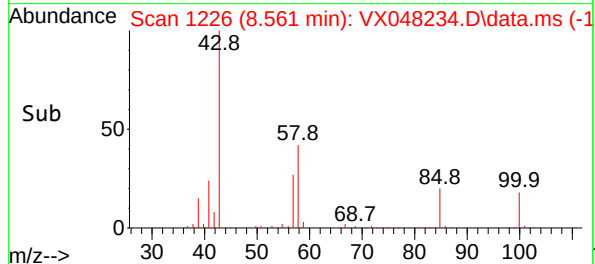
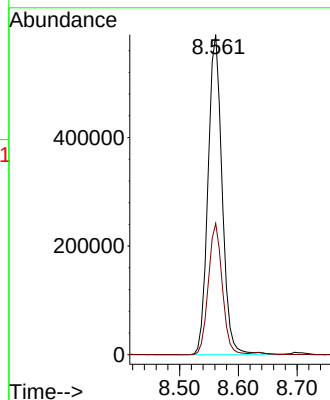
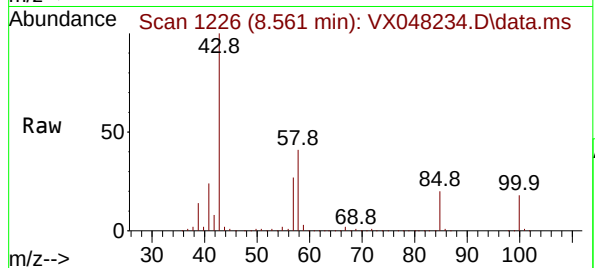
#51
4-Methyl-2-Pentanone
Concen: 744.604 ug/l
RT: 8.561 min Scan# 1226
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 983125
Ion Ratio Lower Upper
43 100
58 40.4 29.5 44.3

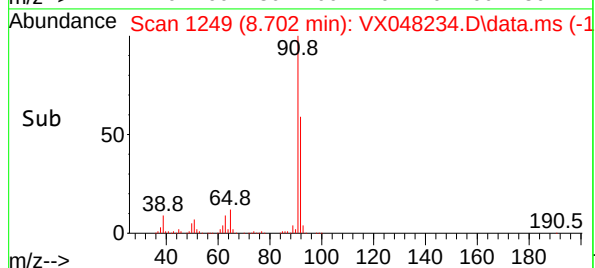
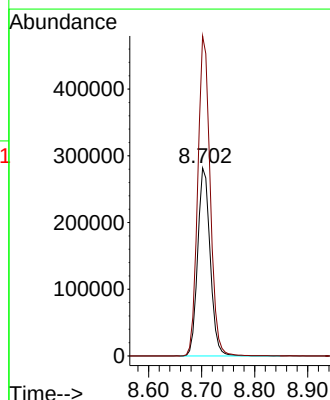
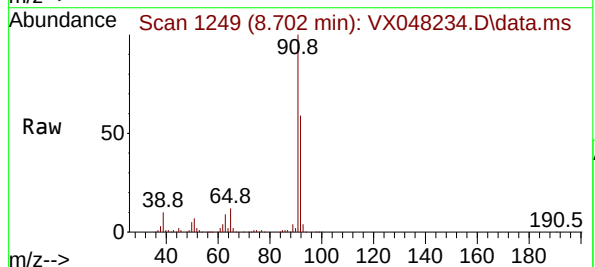
Manual Integrations
APPROVED

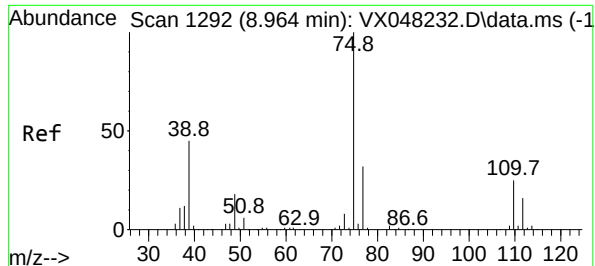
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#52
Toluene
Concen: 145.964 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 92 Resp: 460742
Ion Ratio Lower Upper
92 100
91 169.1 136.1 204.1





#53

t-1,3-Dichloropropene

Concen: 155.059 ug/l

RT: 8.964 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 30025

Ion Ratio Lower Upper

75 100

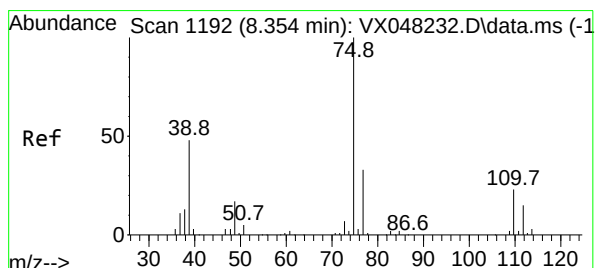
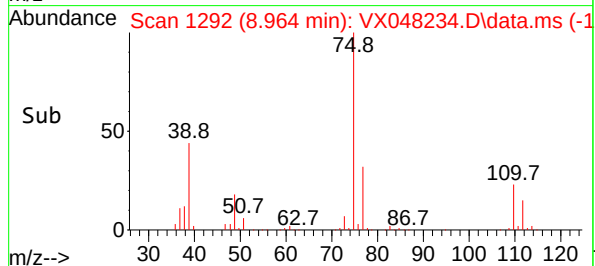
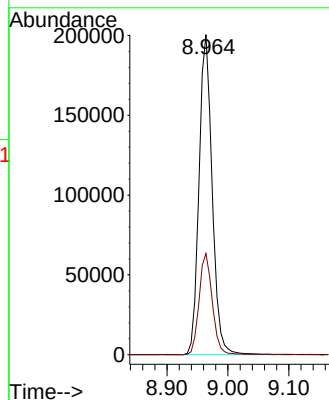
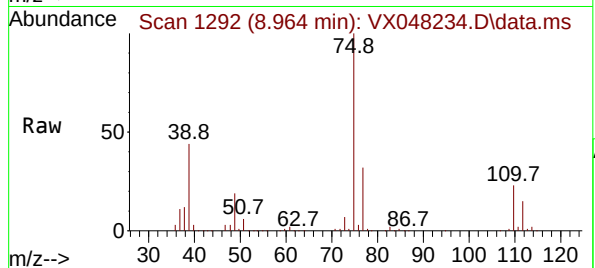
77 31.6 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#54

cis-1,3-Dichloropropene

Concen: 150.373 ug/l

RT: 8.354 min Scan# 1192

Delta R.T. 0.006 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

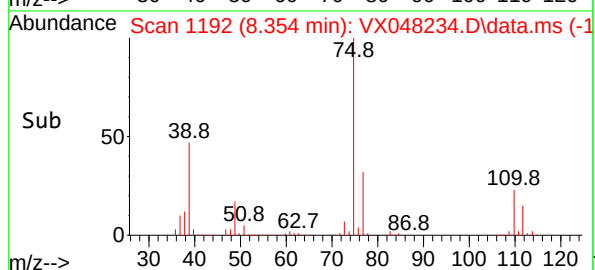
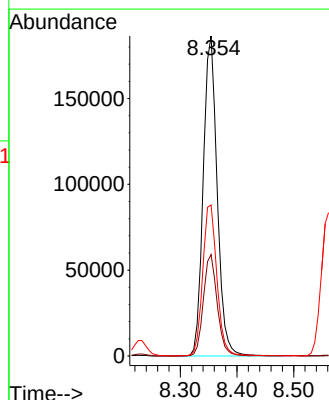
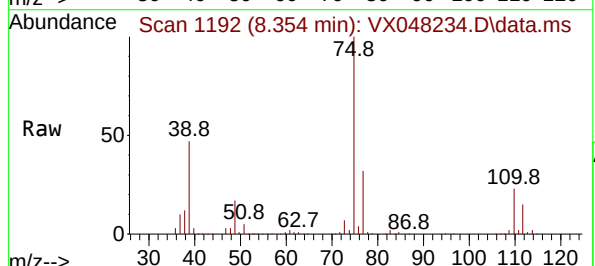
Tgt Ion: 75 Resp: 317375

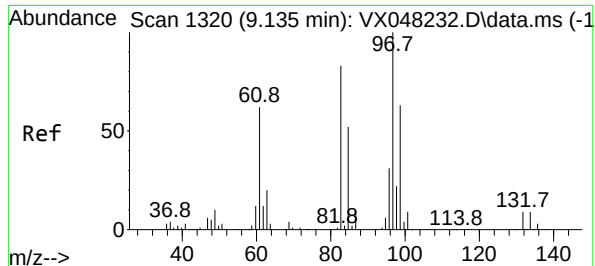
Ion Ratio Lower Upper

75 100

77 31.7 24.9 37.3

39 47.1 42.6 64.0





#55

1,1,2-Trichloroethane

Concen: 144.250 ug/l

RT: 9.135 min Scan# 1320

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 97 Resp: 169894

Ion Ratio Lower Upper

97 100

83 85.4 70.6 105.8

85 56.0 45.0 67.6

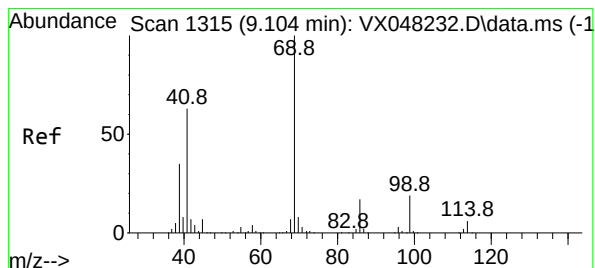
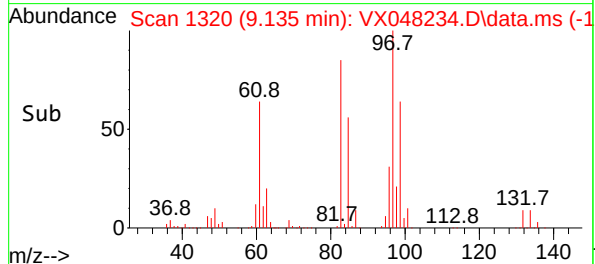
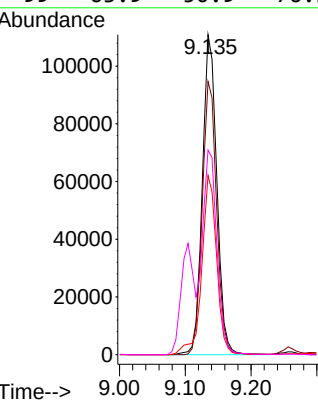
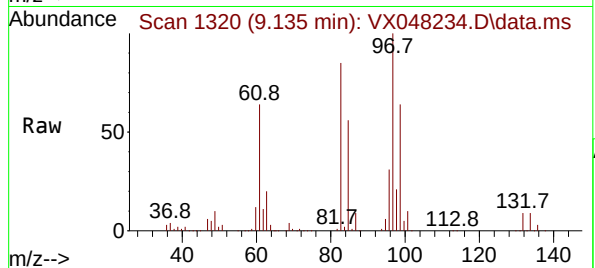
99 63.9 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#56

Ethyl methacrylate

Concen: 169.911 ug/l

RT: 9.104 min Scan# 1315

Delta R.T. 0.006 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

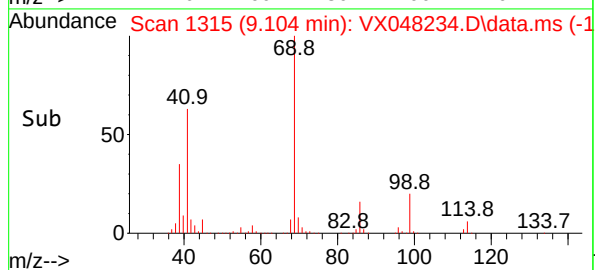
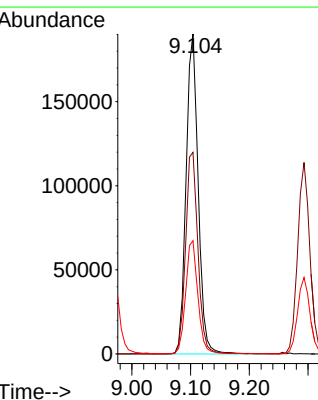
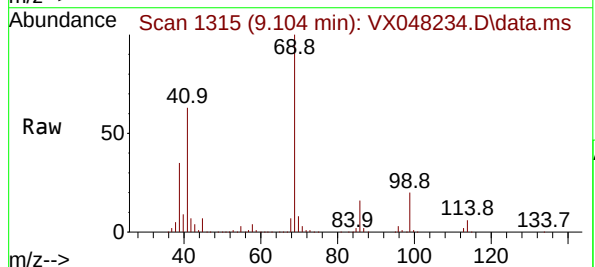
Tgt Ion: 69 Resp: 272177

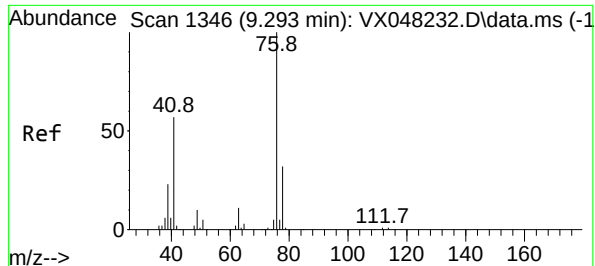
Ion Ratio Lower Upper

69 100

41 64.4 56.0 84.0

39 36.1 31.6 47.4





#57

1,3-Dichloropropane

Concen: 142.707 ug/l

RT: 9.293 min Scan# 1171

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 293650

Ion Ratio Lower Upper

76 100

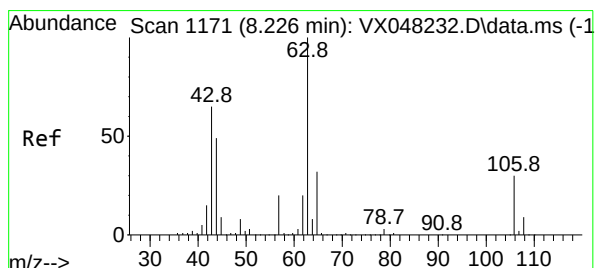
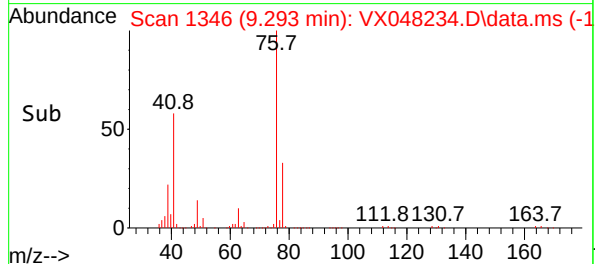
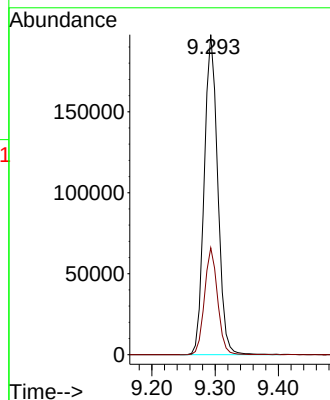
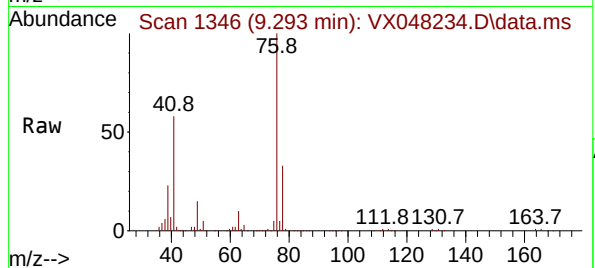
78 32.3 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#58

2-Chloroethyl Vinyl ether

Concen: 858.056 ug/l

RT: 8.232 min Scan# 1172

Delta R.T. 0.006 min

Lab File: VX048234.D

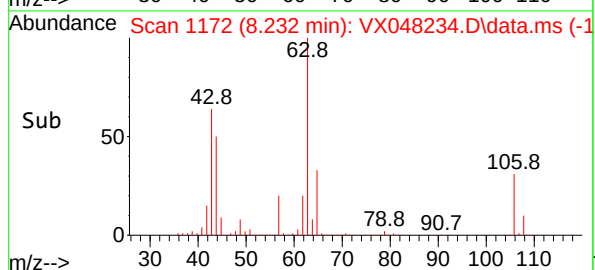
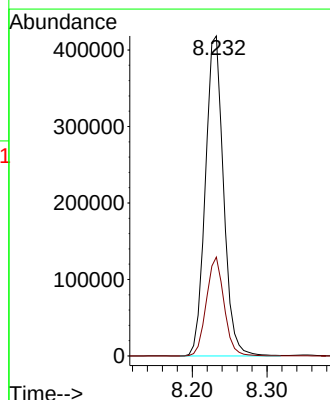
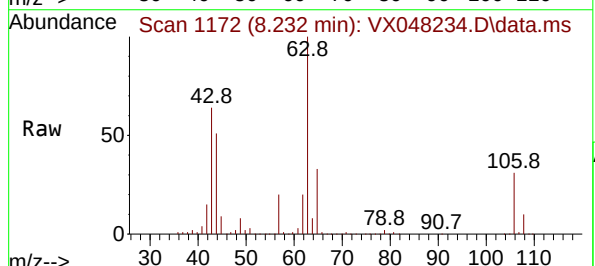
Acq: 20 Oct 2025 12:43

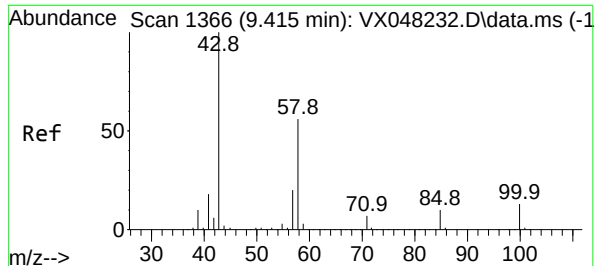
Tgt Ion: 63 Resp: 705780

Ion Ratio Lower Upper

63 100

106 30.2 22.2 33.2





#59

2-Hexanone

Concen: 752.256 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 694730

Ion Ratio Lower Upper

43

100

58

55.6

26.3

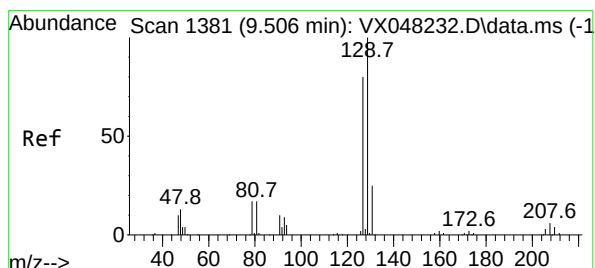
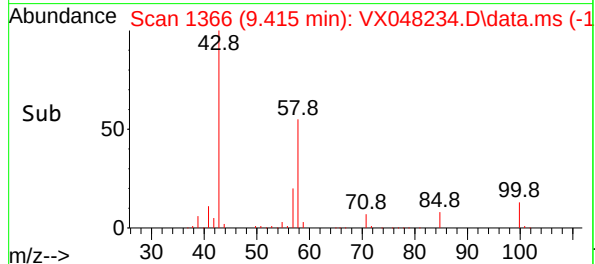
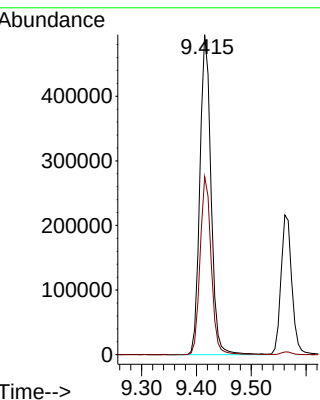
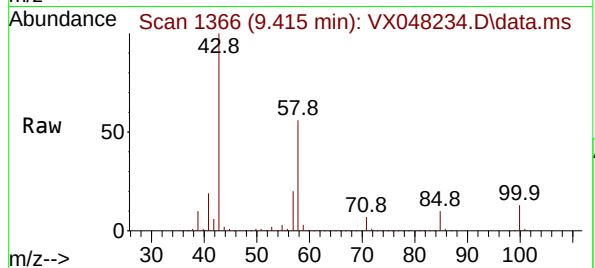
78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#60

Dibromochloromethane

Concen: 153.740 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Tgt Ion:129 Resp: 226642

Ion Ratio Lower Upper

129

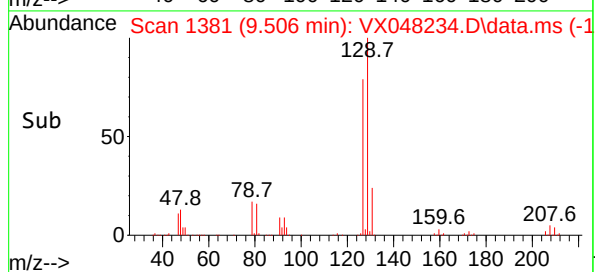
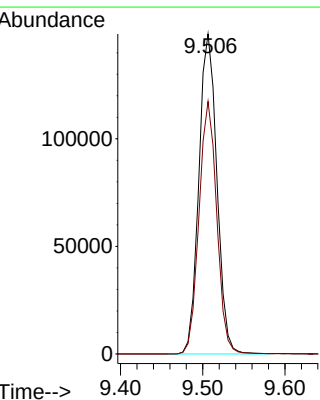
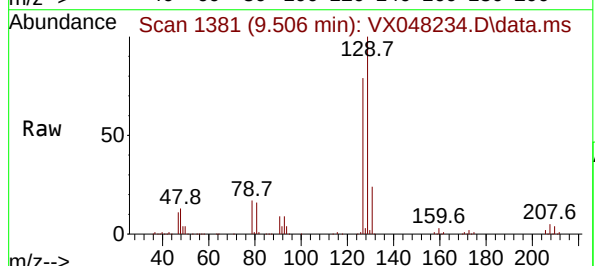
100

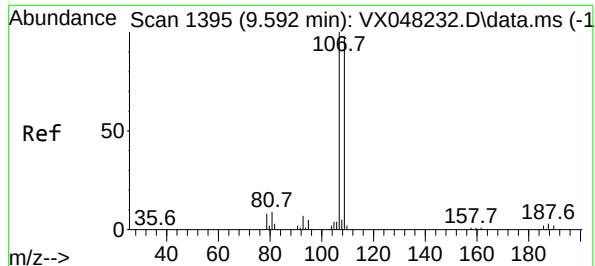
127

77.8

38.6

115.7





#61

1,2-Dibromoethane

Concen: 150.876 ug/l

RT: 9.592 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:107 Resp: 182208

Ion Ratio Lower Upper

107 100

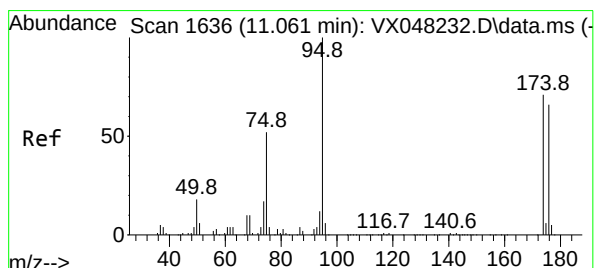
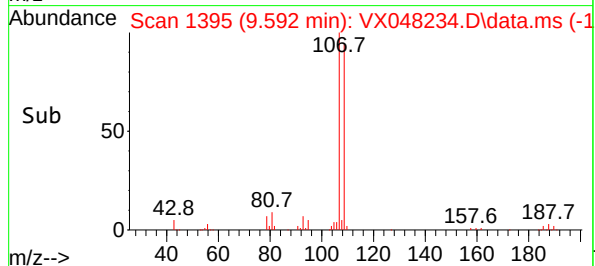
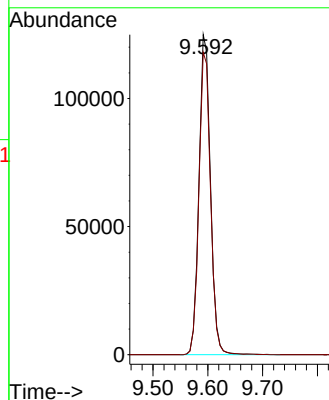
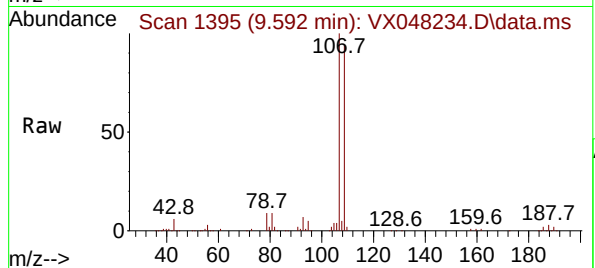
109 95.6 77.0 115.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#62

4-Bromofluorobenzene

Concen: 145.255 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

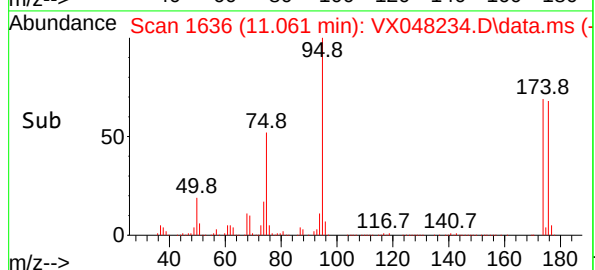
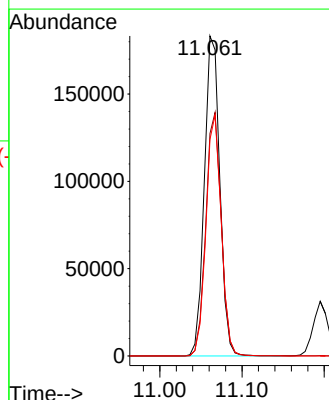
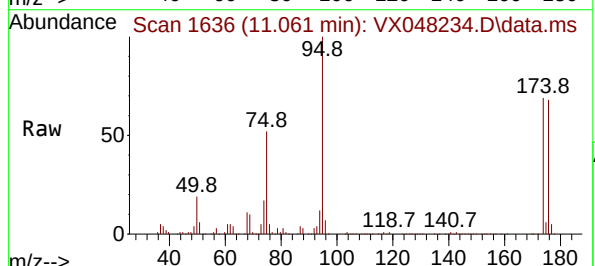
Tgt Ion: 95 Resp: 239298

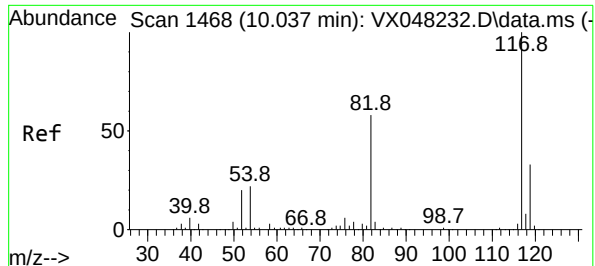
Ion Ratio Lower Upper

95 100

174 76.0 0.0 147.8

176 74.2 0.0 142.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:117 Resp: 155759

Ion Ratio Lower Upper

117 100

82 56.4 46.5 69.7

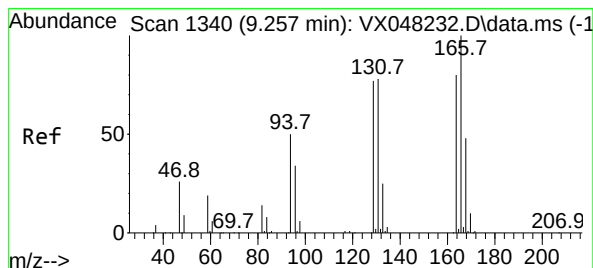
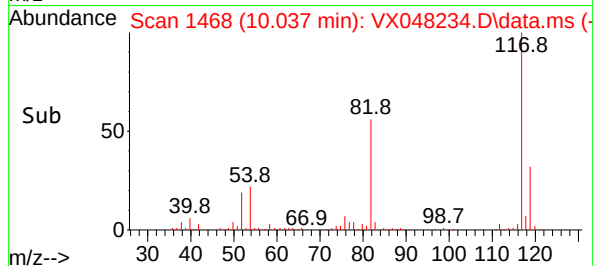
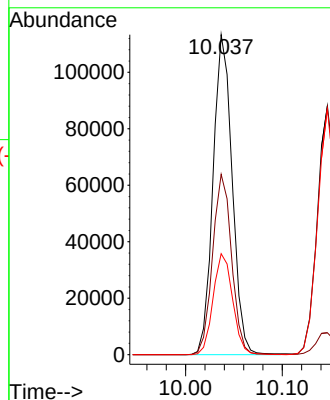
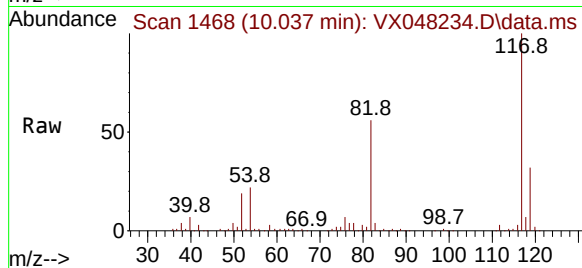
119 31.5 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#64

Tetrachloroethene

Concen: 154.361 ug/l

RT: 9.263 min Scan# 1341

Delta R.T. 0.006 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Tgt Ion:164 Resp: 168581

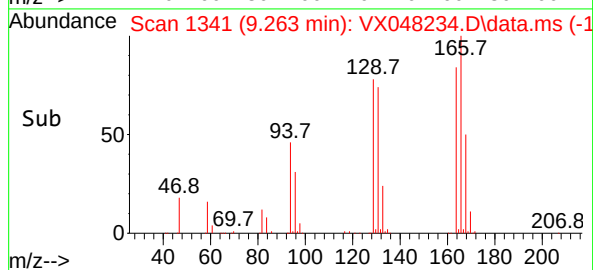
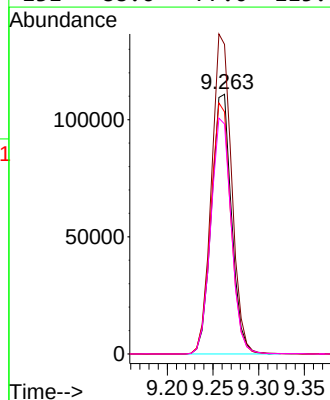
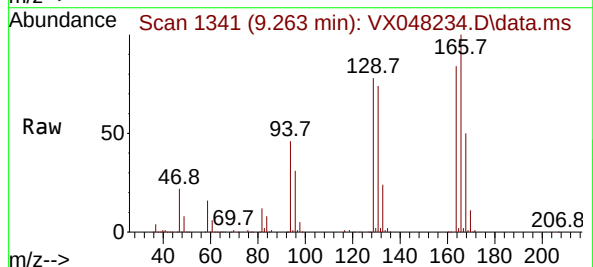
Ion Ratio Lower Upper

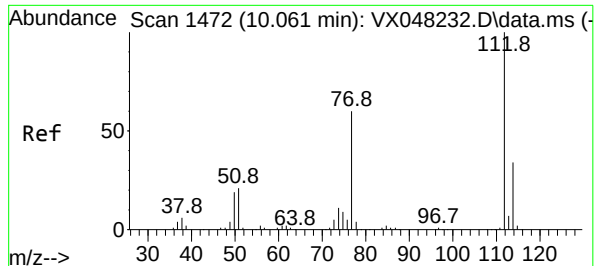
164 100

166 119.3 104.5 156.7

129 93.2 81.8 122.6

131 88.6 77.0 115.6





#65

Chlorobenzene

Concen: 151.209 ug/l

RT: 10.061 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:112 Resp: 51496

Ion Ratio Lower Upper

112 100

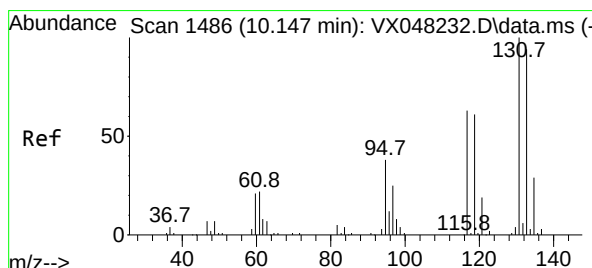
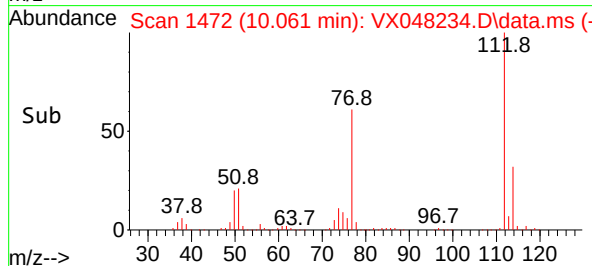
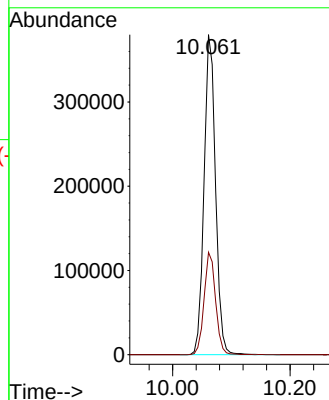
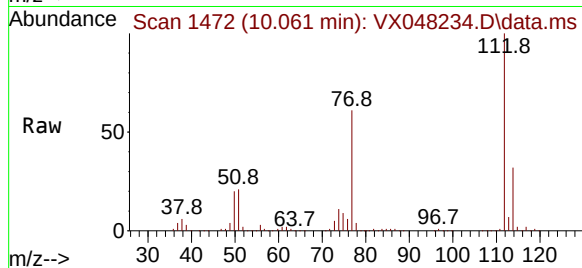
114 32.0 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 155.782 ug/l

RT: 10.147 min Scan# 1486

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

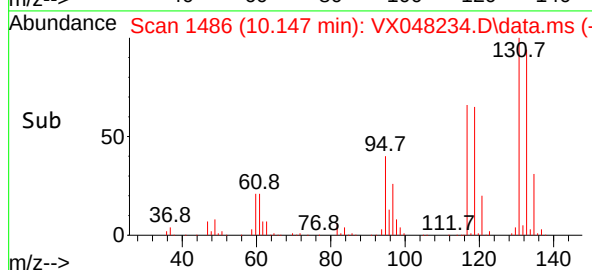
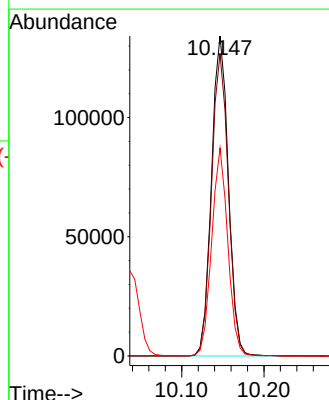
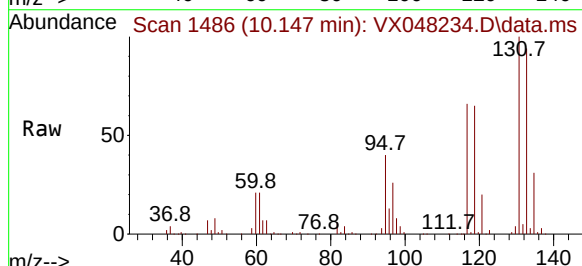
Tgt Ion:131 Resp: 191186

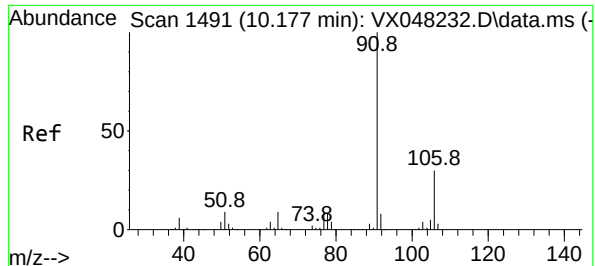
Ion Ratio Lower Upper

131 100

133 94.4 47.6 142.8

119 62.3 32.5 97.5





#67

Ethyl Benzene

Concen: 153.825 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 89813

Ion Ratio Lower Upper

91 100

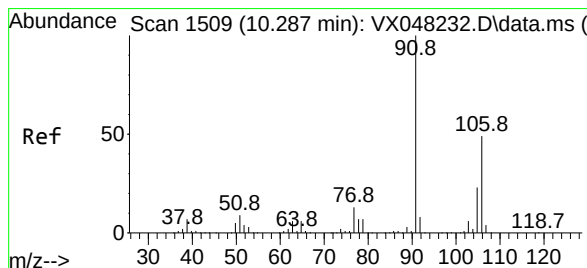
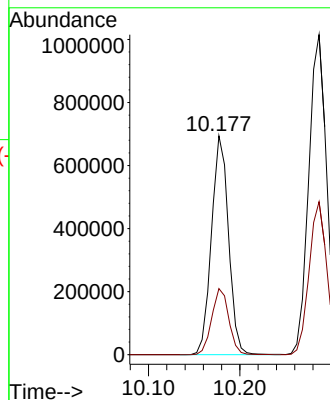
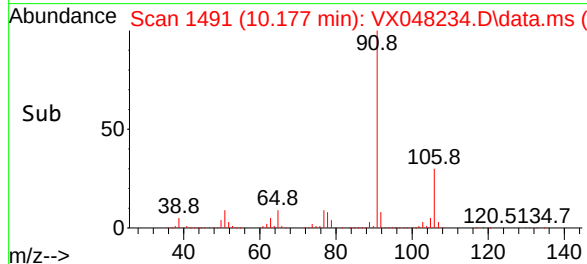
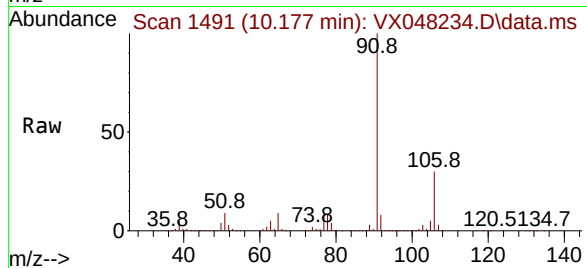
106 30.2 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#68

m/p-Xylenes

Concen: 303.896 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX048234.D

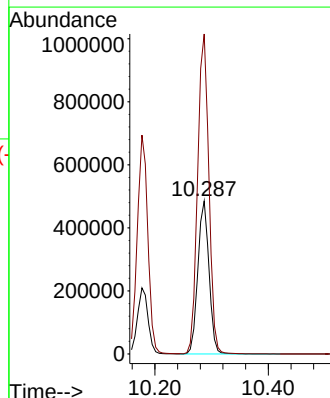
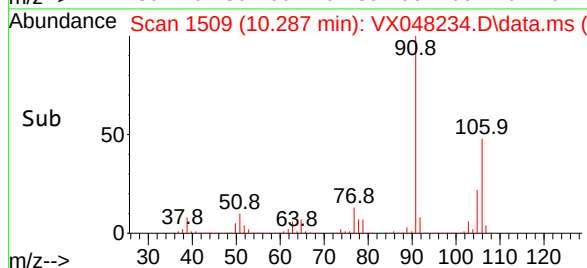
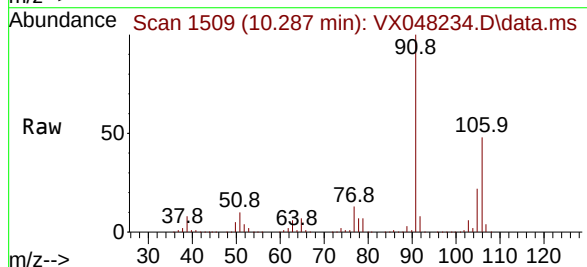
Acq: 20 Oct 2025 12:43

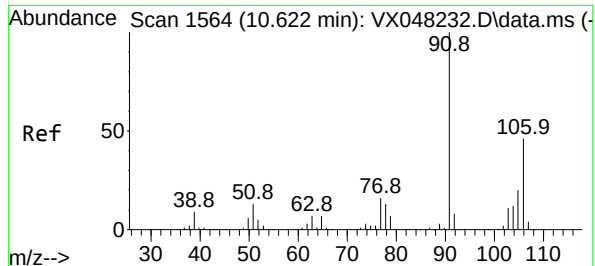
Tgt Ion:106 Resp: 661019

Ion Ratio Lower Upper

106 100

91 211.4 167.9 251.9





#69

o-Xylene

Concen: 156.444 ug/l

RT: 10.622 min Scan# 1564

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:106 Resp: 320334

Ion Ratio Lower Upper

106 100

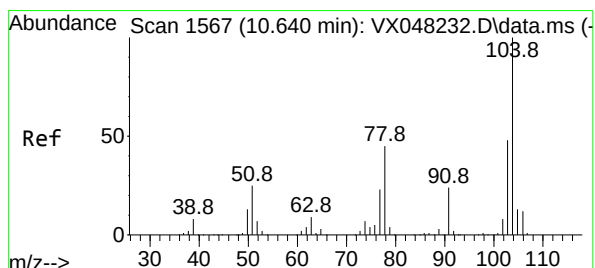
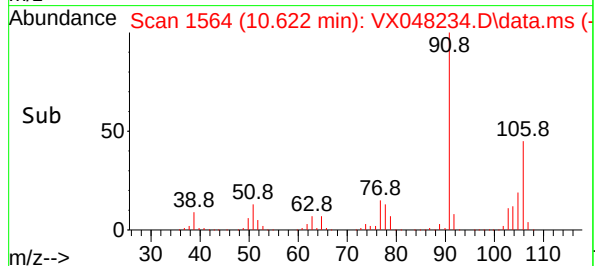
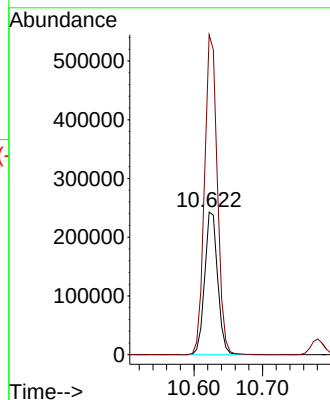
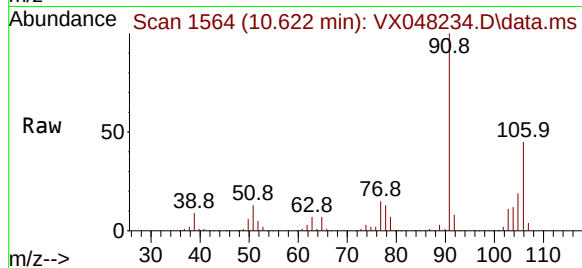
91 221.5 111.3 333.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#70

Styrene

Concen: 155.523 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

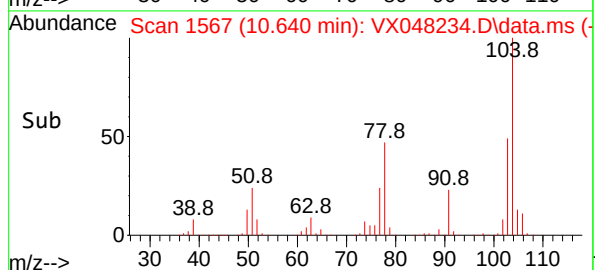
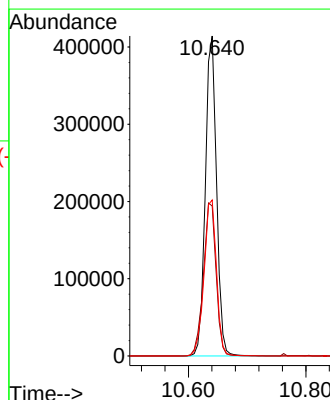
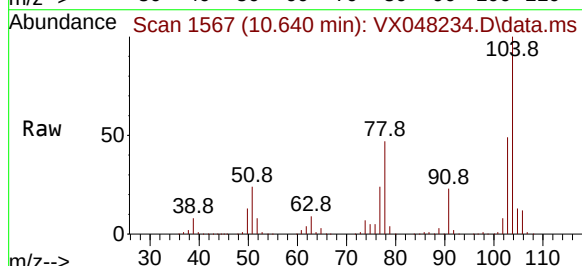
Tgt Ion:104 Resp: 548149

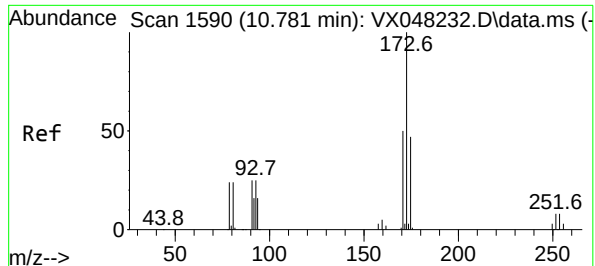
Ion Ratio Lower Upper

104 100

78 54.3 42.2 63.4

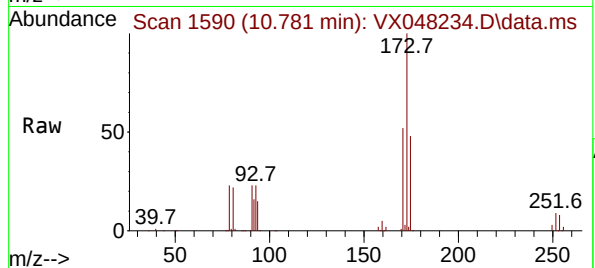
103 54.4 43.0 64.4





#71
Bromoform
Concen: 168.892 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

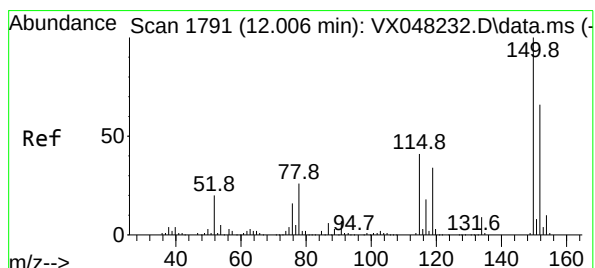
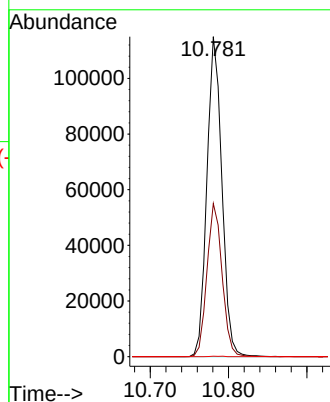
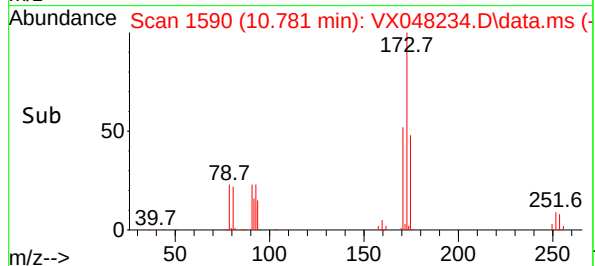
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:173 Resp: 152209
Ion Ratio Lower Upper
173 100
175 48.4 24.0 72.0
254 0.1 0.0 0.0

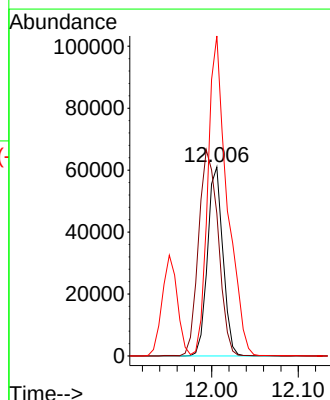
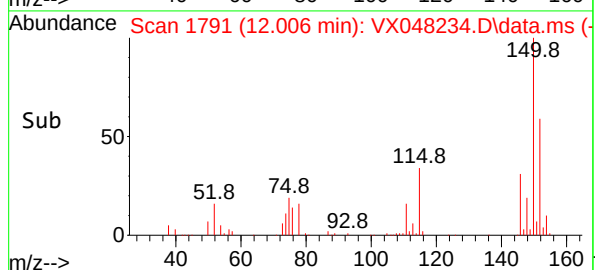
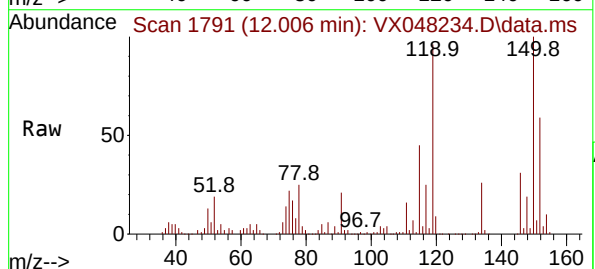
Manual Integrations
APPROVED

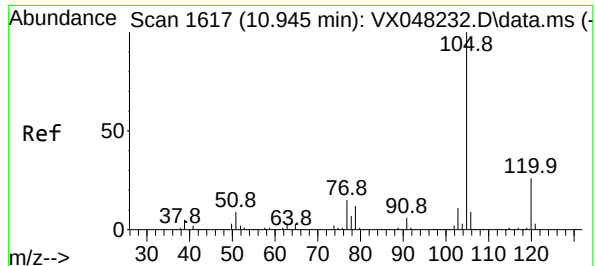
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion:152 Resp: 75397
Ion Ratio Lower Upper
152 100
115 138.9 43.1 129.4#
150 212.6 0.0 353.0





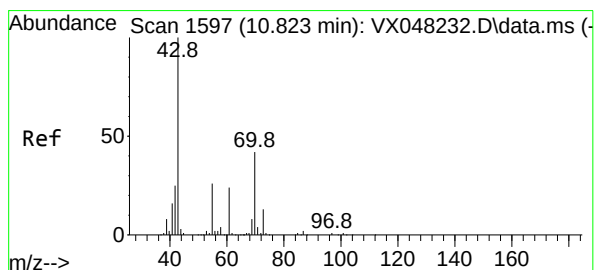
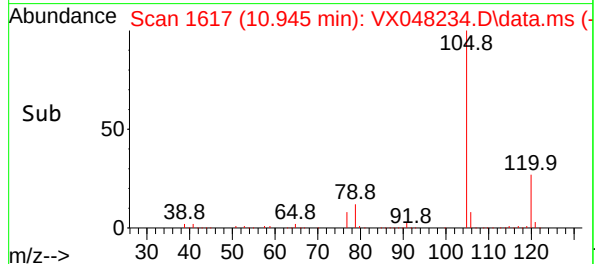
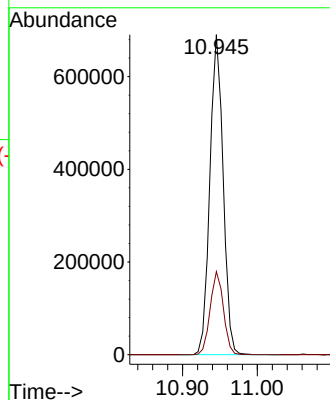
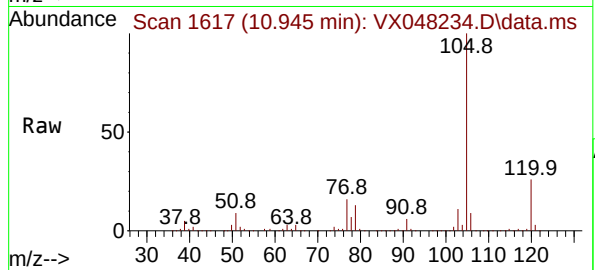
#73
Isopropylbenzene
Concen: 161.931 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion:105 Resp: 84918
Ion Ratio Lower Upper
105 100
120 25.9 13.0 38.9

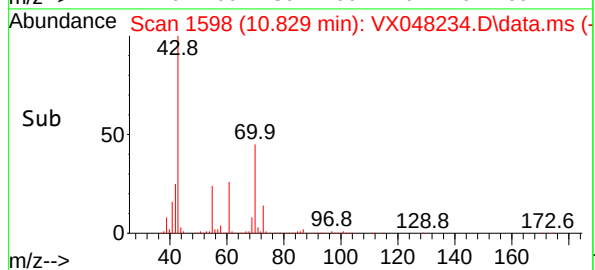
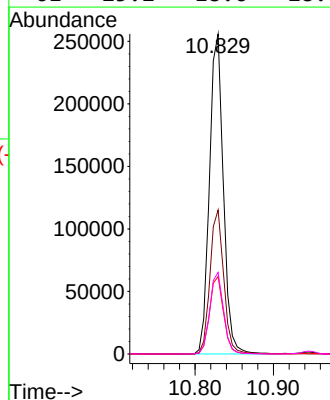
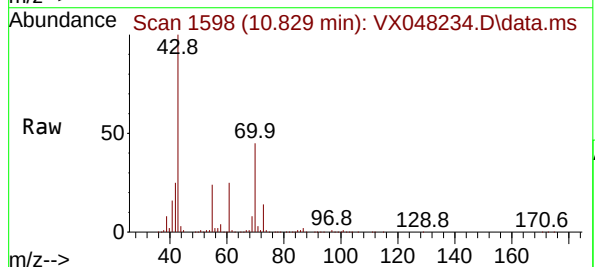
Manual Integrations
APPROVED

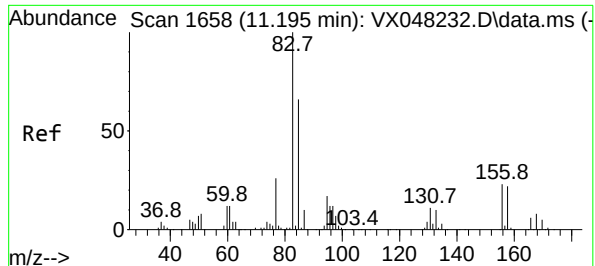
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#74
N-ethyl acetate
Concen: 160.952 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 43 Resp: 314879
Ion Ratio Lower Upper
43 100
70 44.5 32.2 48.2
55 24.4 19.1 28.7
61 25.2 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 151.104 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 224480

Ion Ratio Lower Upper

83 100

131 10.7 4.8 14.4

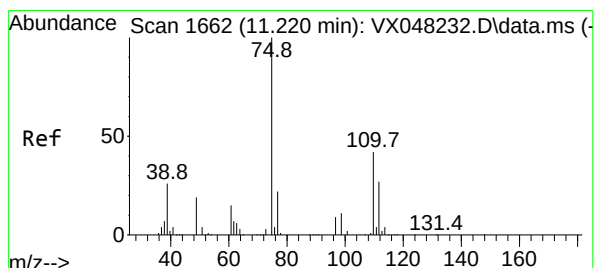
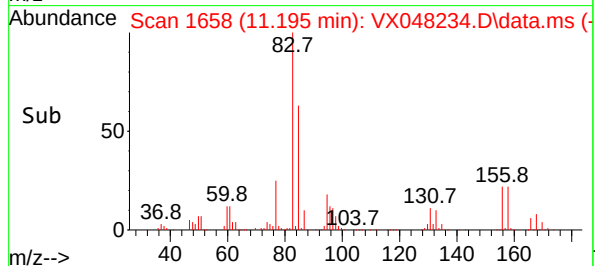
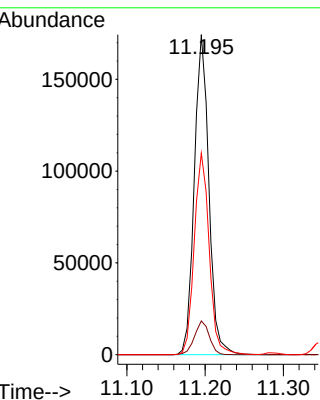
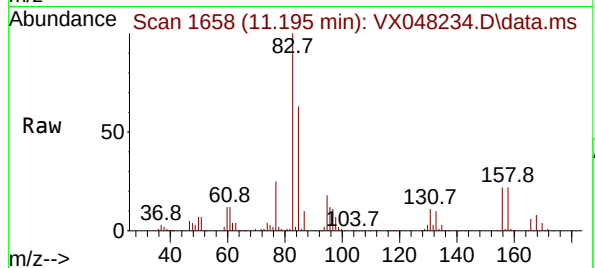
85 64.6 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#76

1,2,3-Trichloropropane

Concen: 157.586 ug/l m

RT: 11.220 min Scan# 1662

Delta R.T. -0.000 min

Lab File: VX048234.D

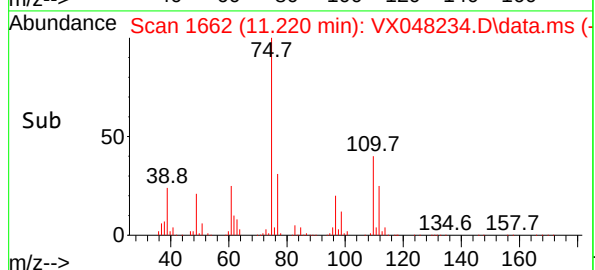
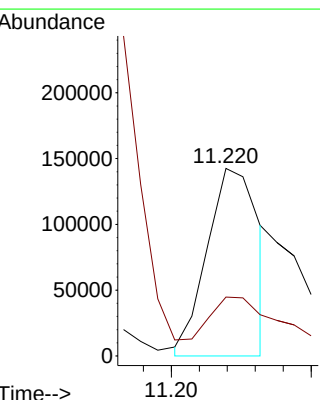
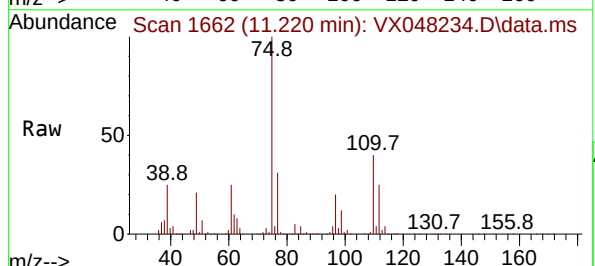
Acq: 20 Oct 2025 12:43

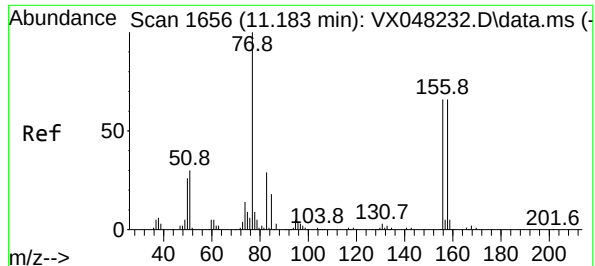
Tgt Ion: 75 Resp: 181434

Ion Ratio Lower Upper

75 100

77 44.8 22.4 67.2





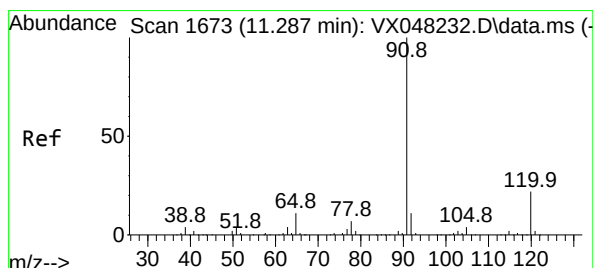
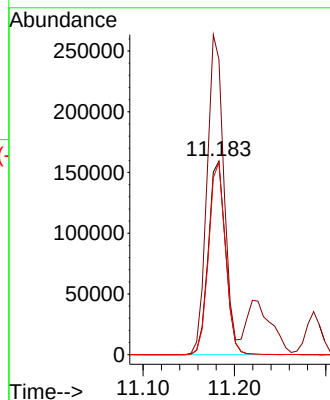
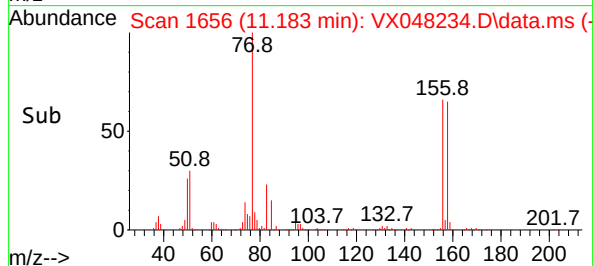
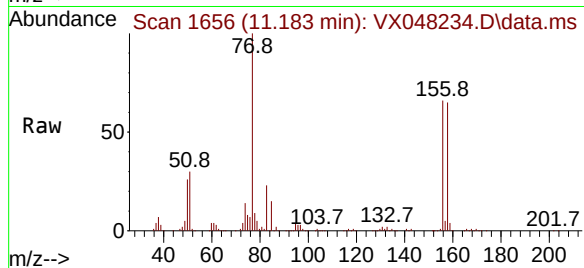
#77
Bromobenzene
Concen: 157.899 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 20721
Ion Ratio Lower Upper
156 100
77 161.9 87.0 261.0
158 97.9 47.8 143.4

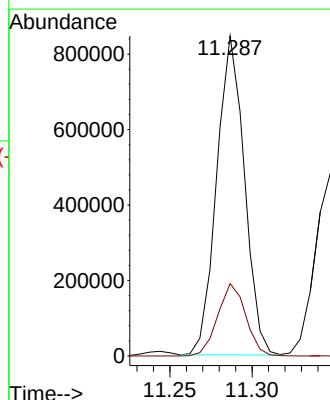
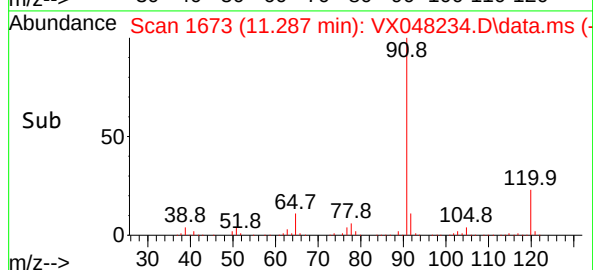
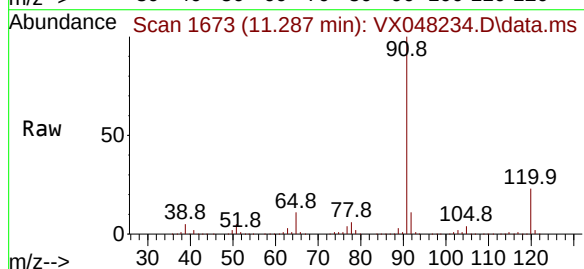
Manual Integrations
APPROVED

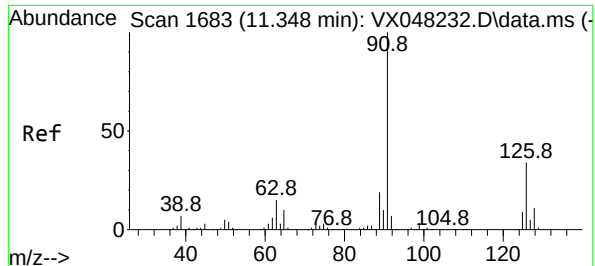
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#78
n-propylbenzene
Concen: 155.984 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 91 Resp: 991960
Ion Ratio Lower Upper
91 100
120 22.9 11.1 33.1





#79

2-Chlorotoluene

Concen: 152.465 ug/l

RT: 11.348 min Scan# 1683

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 585792

Ion Ratio Lower Upper

91 100

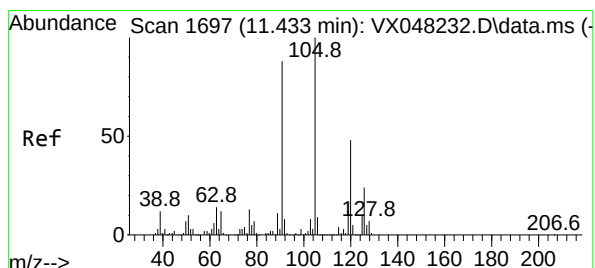
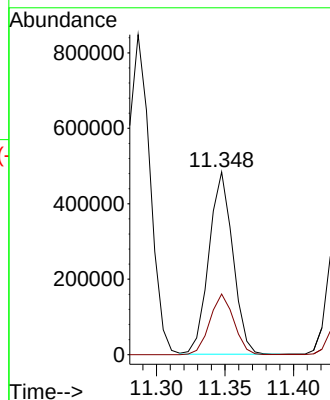
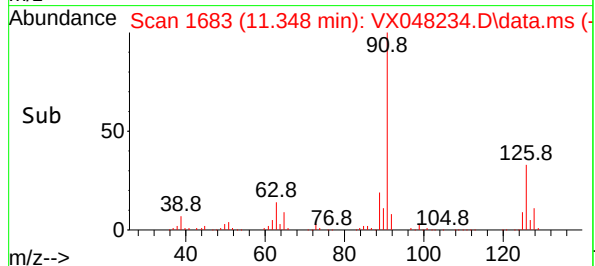
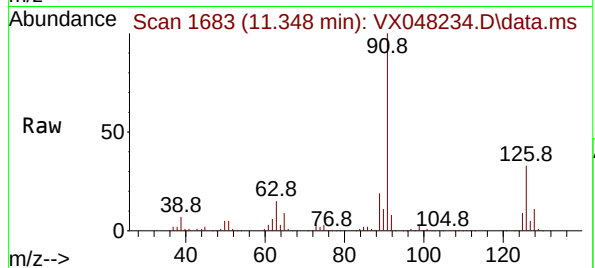
126 33.5 16.4 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#80

1,3,5-Trimethylbenzene

Concen: 162.591 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX048234.D

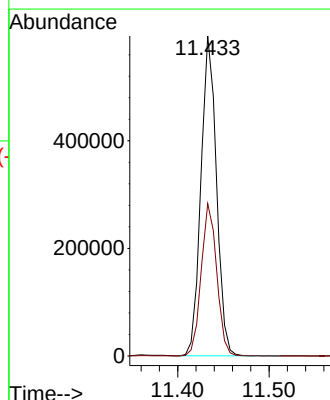
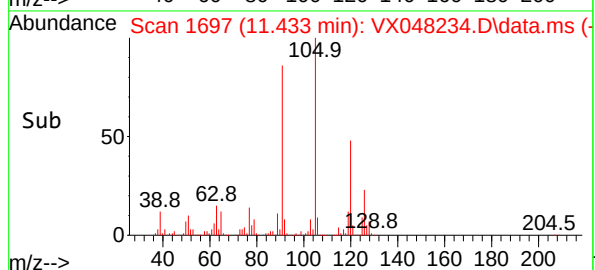
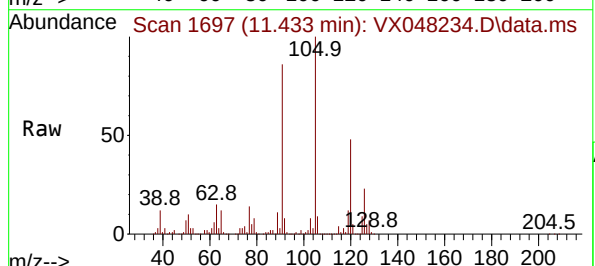
Acq: 20 Oct 2025 12:43

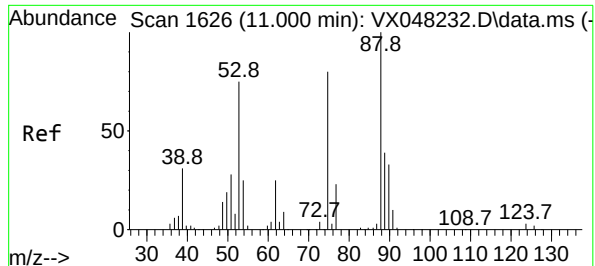
Tgt Ion:105 Resp: 699885

Ion Ratio Lower Upper

105 100

120 47.7 24.0 72.0





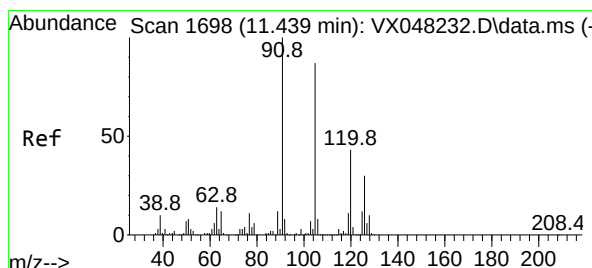
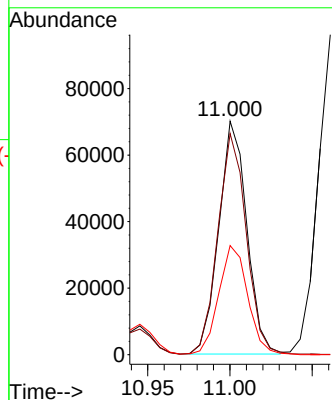
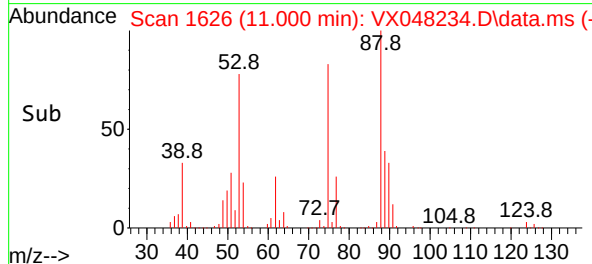
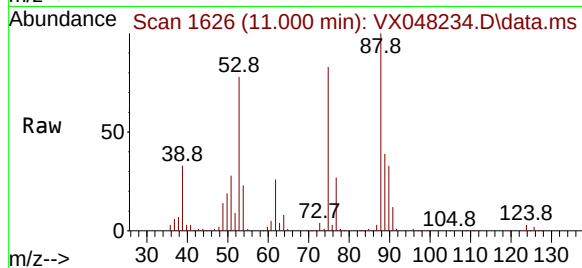
#81
trans-1,4-Dichloro-2-butene
Concen: 176.858 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 83158
Ion Ratio Lower Upper
75 100
53 96.5 79.5 119.3
89 48.6 36.8 55.2

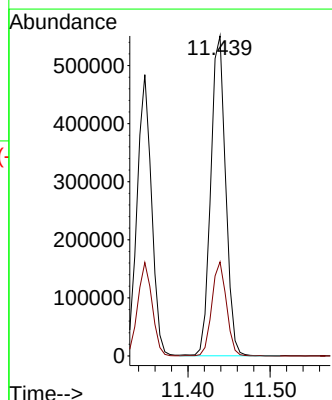
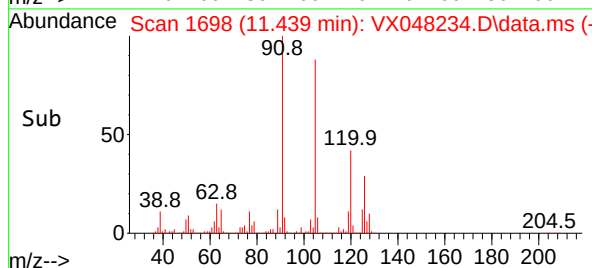
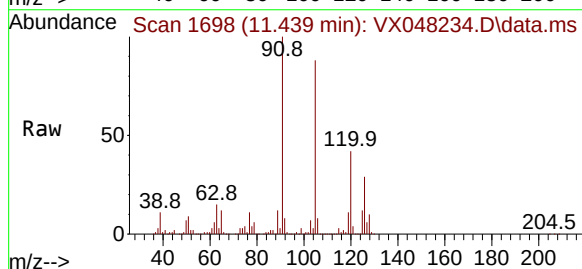
Manual Integrations
APPROVED

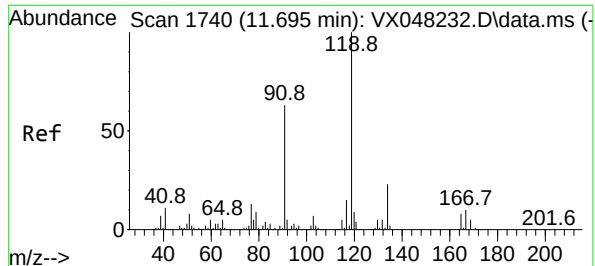
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#82
4-Chlorotoluene
Concen: 153.240 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

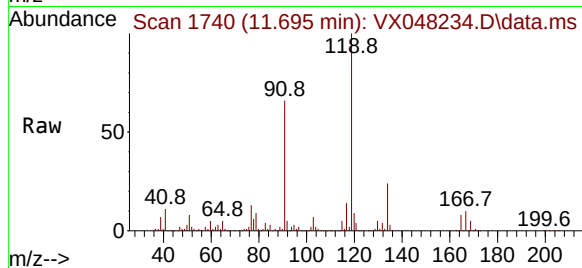
Tgt Ion: 91 Resp: 691903
Ion Ratio Lower Upper
91 100
126 29.0 14.1 42.4





#83
tert-Butylbenzene
Concen: 165.020 ug/l
RT: 11.695 min Scan# 1740
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

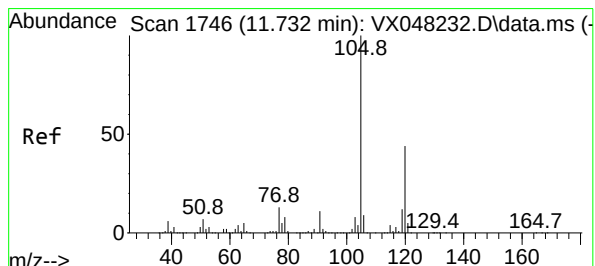
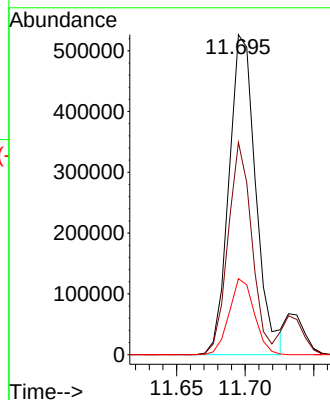
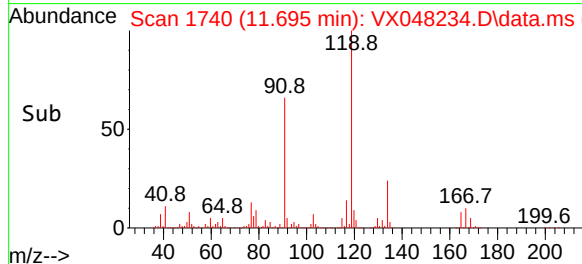
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



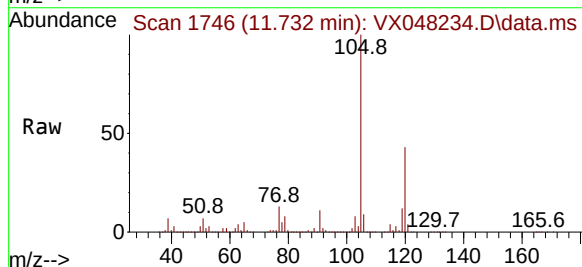
Tgt Ion:119 Resp: 71764
Ion Ratio Lower Upper
119 100
91 58.9 30.3 91.0
134 22.3 11.4 34.2

Manual Integrations
APPROVED

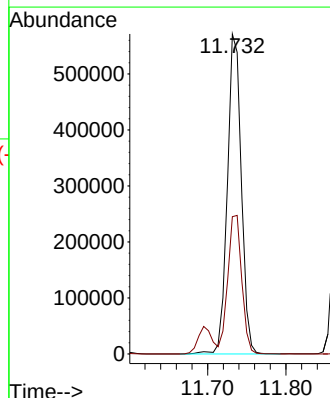
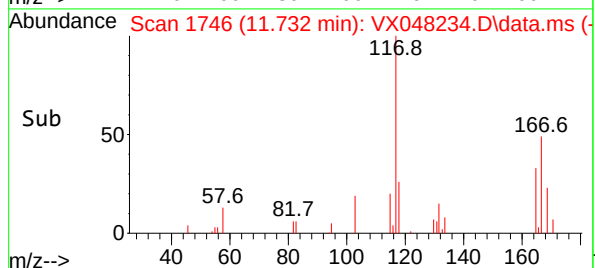
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

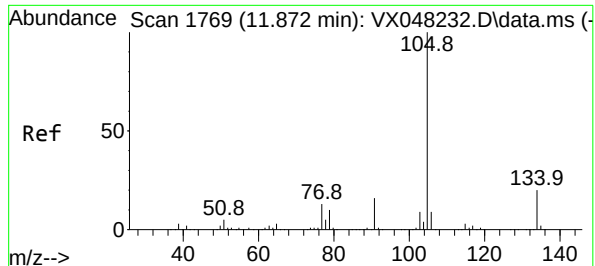


#84
1,2,4-Trimethylbenzene
Concen: 164.961 ug/l
RT: 11.732 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43



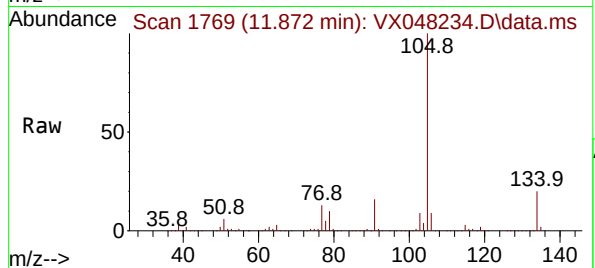
Tgt Ion:105 Resp: 707074
Ion Ratio Lower Upper
105 100
120 43.5 22.1 66.5





#85
sec-Butylbenzene
Concen: 162.035 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

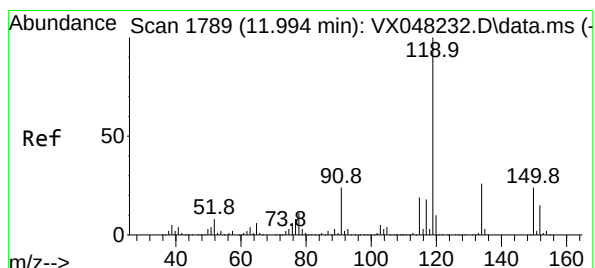
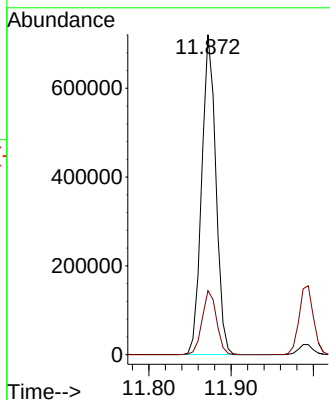
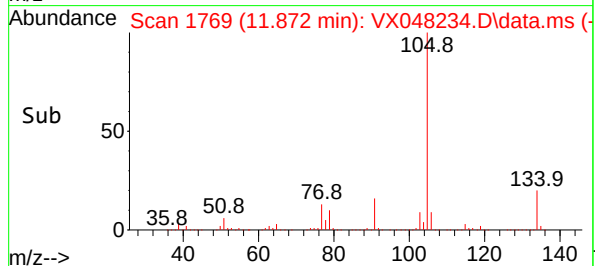
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



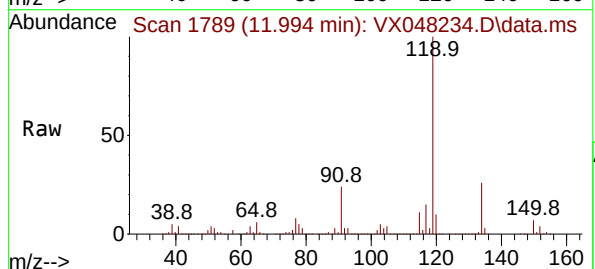
Tgt Ion:105 Resp: 861460
Ion Ratio Lower Upper
105 100
134 20.3 10.1 30.1

Manual Integrations
APPROVED

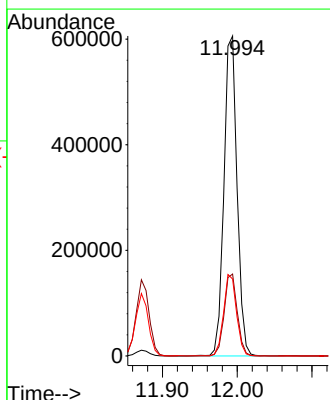
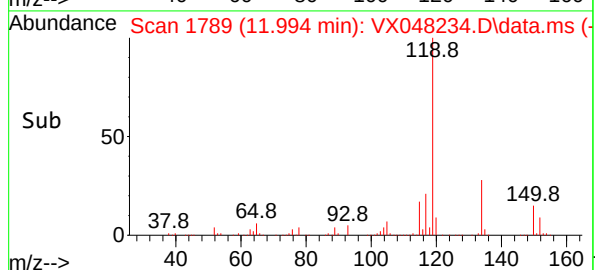
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

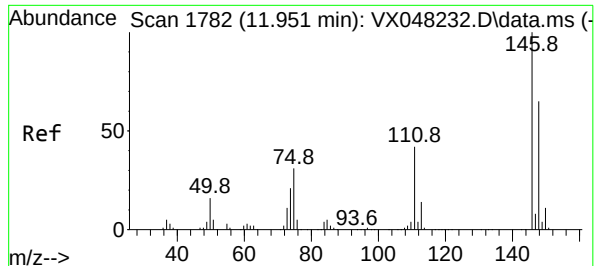


#86
p-Isopropyltoluene
Concen: 164.794 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. 0.006 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43



Tgt Ion:119 Resp: 738496
Ion Ratio Lower Upper
119 100
134 25.6 13.0 39.0
91 25.1 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 157.307 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:146 Resp: 386062

Ion Ratio Lower Upper

146 100

111 42.7 20.4 61.2

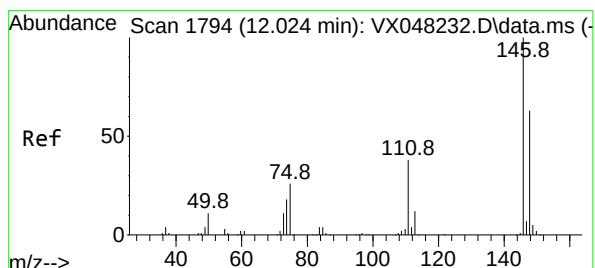
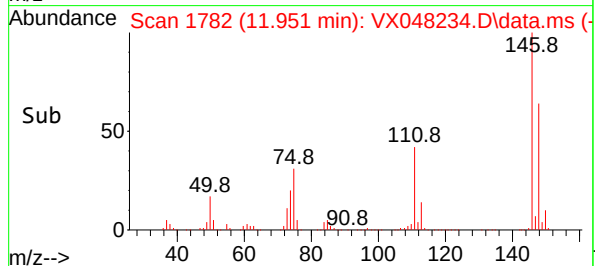
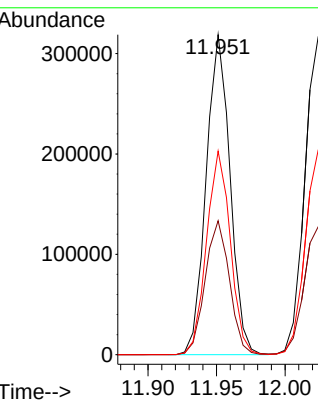
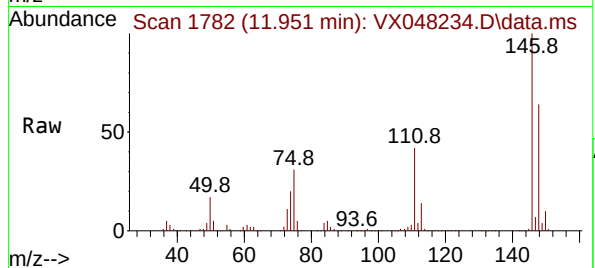
148 63.5 31.9 95.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#88

1,4-Dichlorobenzene

Concen: 152.078 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

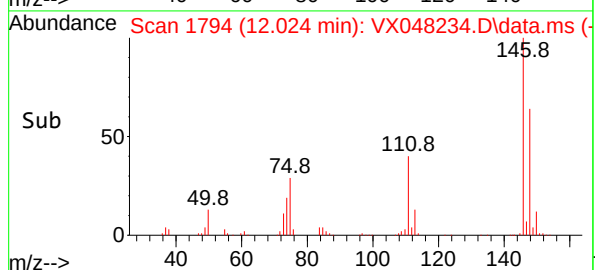
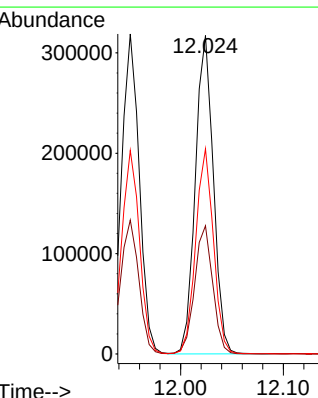
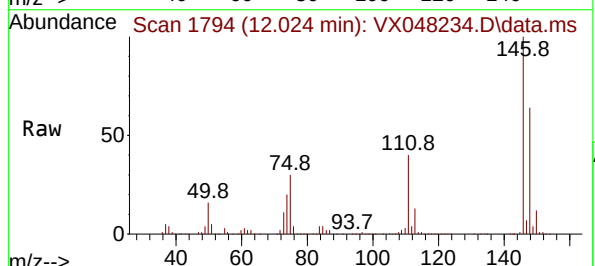
Tgt Ion:146 Resp: 386885

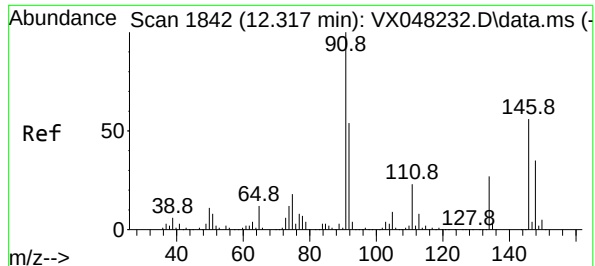
Ion Ratio Lower Upper

146 100

111 40.5 20.1 60.2

148 63.4 31.8 95.3





#89

n-Butylbenzene

Concen: 159.098 ug/l

RT: 12.311 min Scan# 1841

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 66407

Ion Ratio Lower Upper

91 100

92 54.4 26.9 80.6

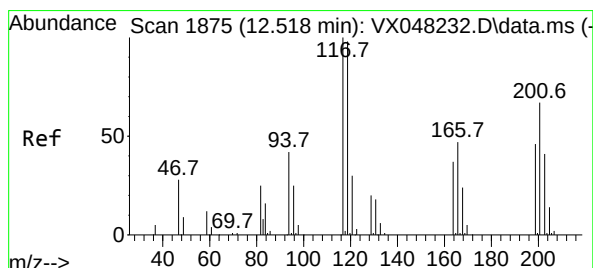
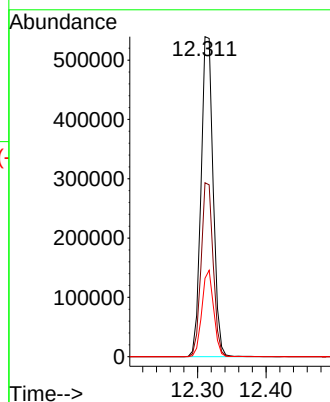
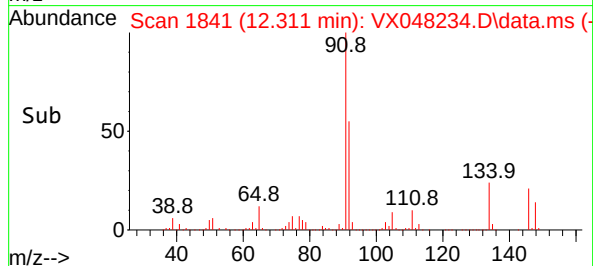
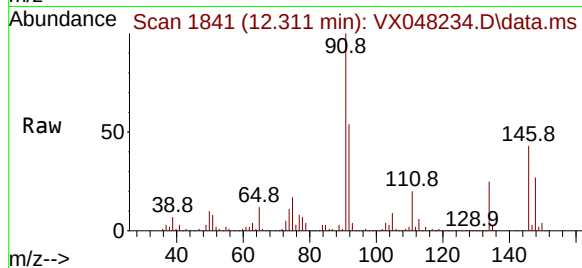
134 26.3 12.7 38.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#90

Hexachloroethane

Concen: 154.159 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX048234.D

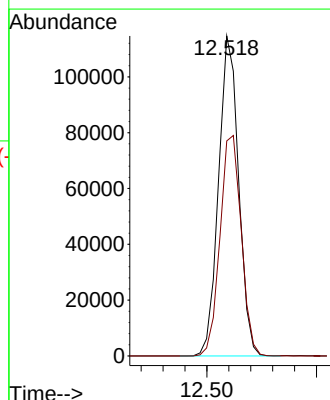
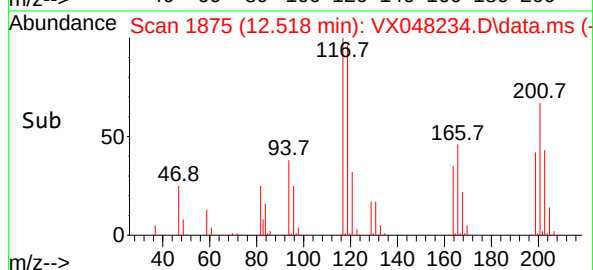
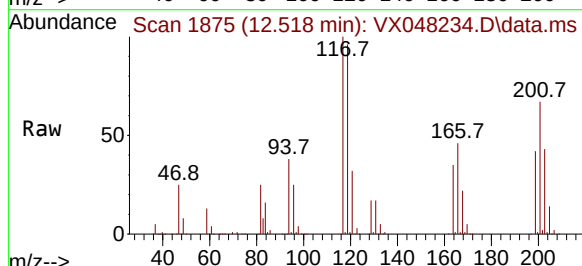
Acq: 20 Oct 2025 12:43

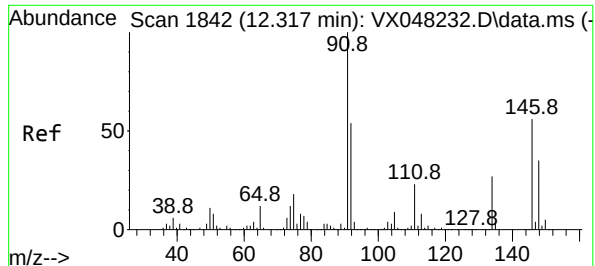
Tgt Ion:117 Resp: 145813

Ion Ratio Lower Upper

117 100

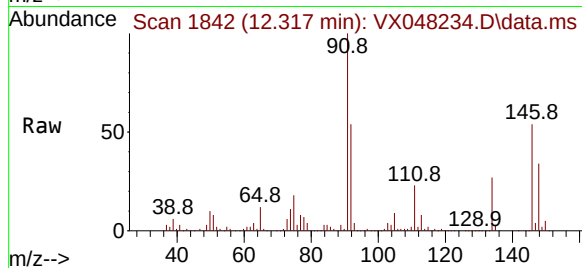
201 73.0 34.1 102.2





#91
1,2-Dichlorobenzene
Concen: 154.946 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

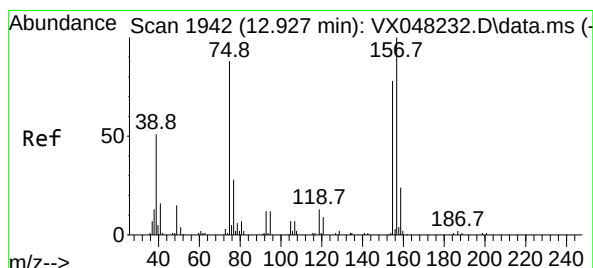
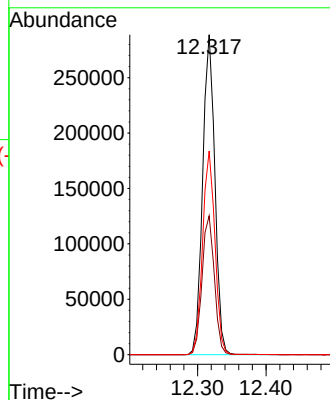
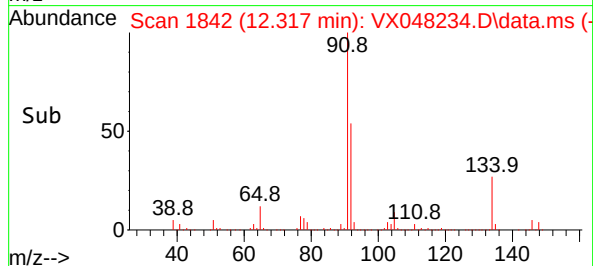
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:146 Resp: 359278
Ion Ratio Lower Upper
146 100
111 43.8 21.9 65.5
148 64.4 31.9 95.5

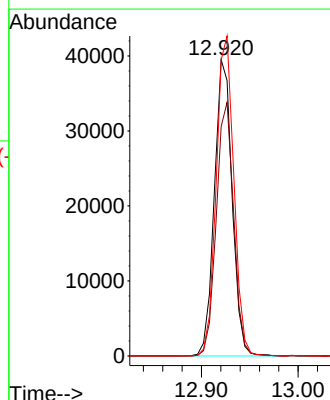
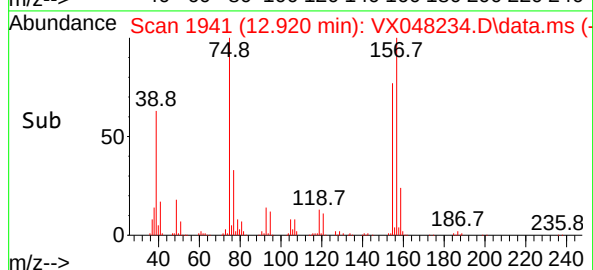
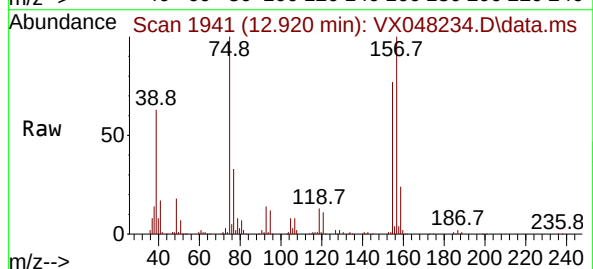
Manual Integrations
APPROVED

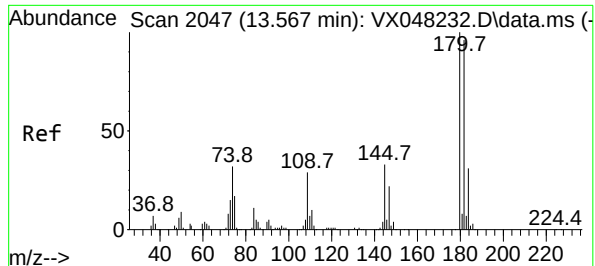
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 185.536 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048234.D
Acq: 20 Oct 2025 12:43

Tgt Ion: 75 Resp: 50367
Ion Ratio Lower Upper
75 100
155 83.7 42.8 128.4
157 106.9 54.2 162.6





#93

1,2,4-Trichlorobenzene

Concen: 180.791 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

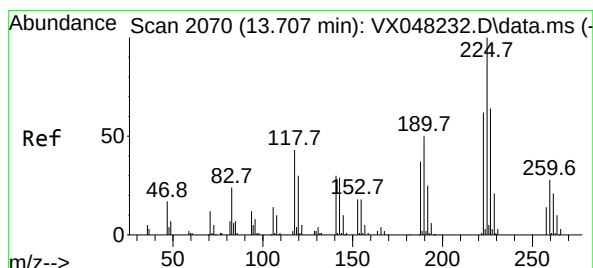
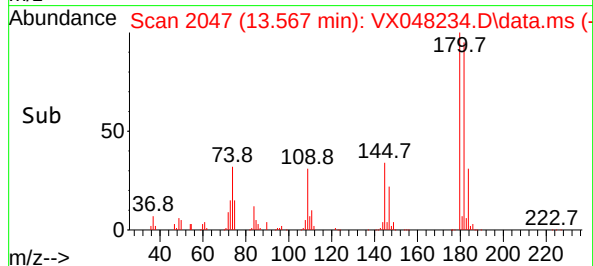
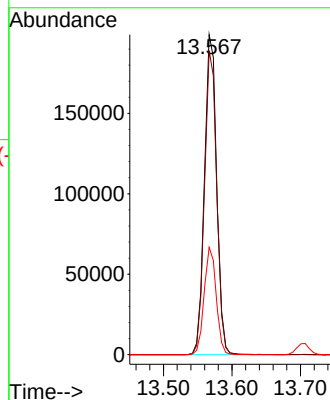
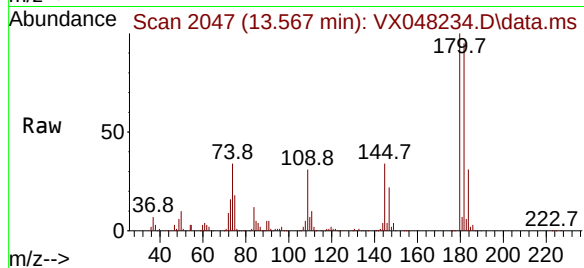
Tgt Ion:180	Resp:	24747
Ion Ratio	Lower	Upper
180	100	
182	94.5	47.3 142.0
145	33.2	16.3 48.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#94

Hexachlorobutadiene

Concen: 175.138 ug/l

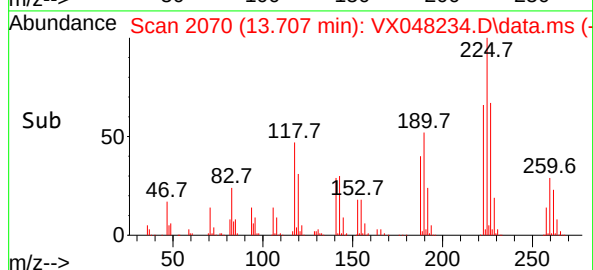
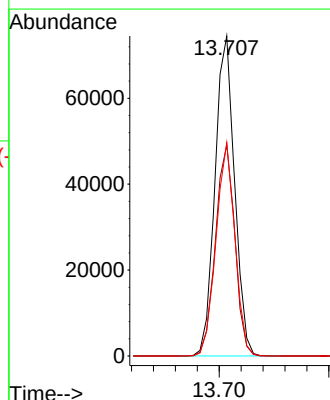
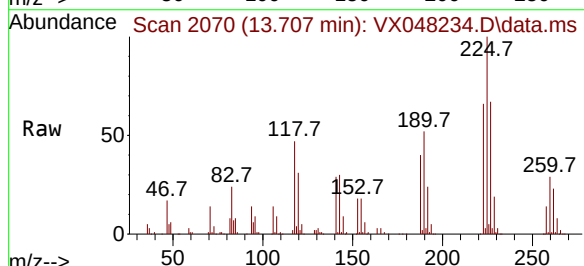
RT: 13.707 min Scan# 2070

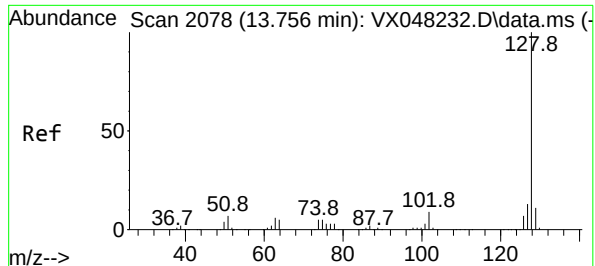
Delta R.T. 0.006 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Tgt Ion:225	Resp:	92458
Ion Ratio	Lower	Upper
225	100	
223	65.2	32.6 97.7
227	64.3	32.5 97.4





#95

Naphthalene

Concen: 199.386 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:128 Resp: 71943

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

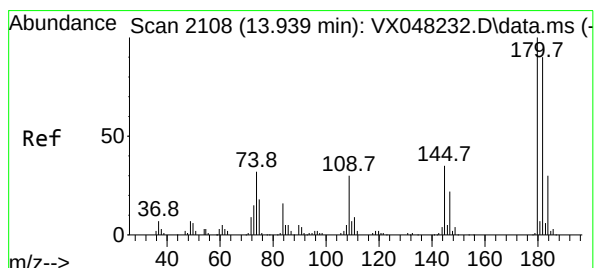
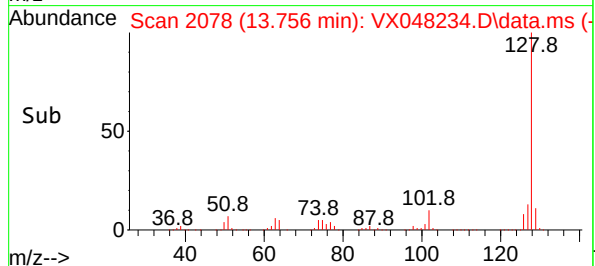
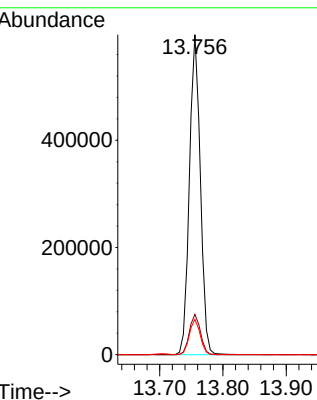
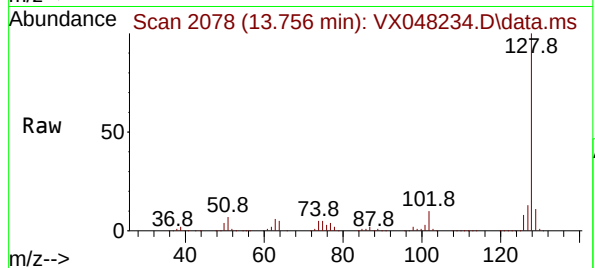
129 11.0 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#96

1,2,3-Trichlorobenzene

Concen: 185.022 ug/l

RT: 13.939 min Scan# 2108

Delta R.T. -0.000 min

Lab File: VX048234.D

Acq: 20 Oct 2025 12:43

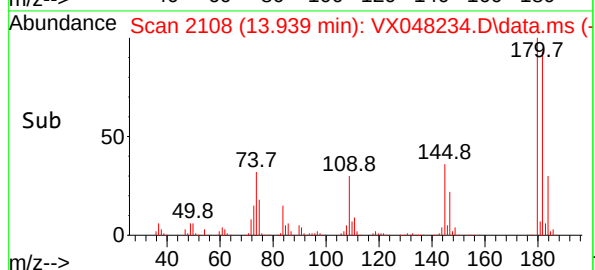
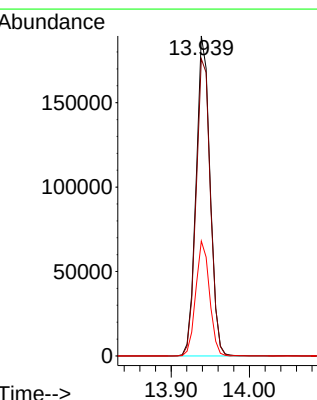
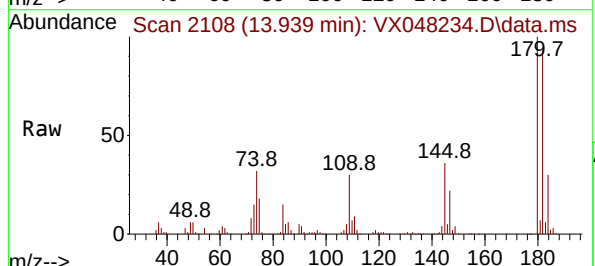
Tgt Ion:180 Resp: 233671

Ion Ratio Lower Upper

180 100

182 95.5 46.6 139.7

145 35.4 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
 Data File : VX048236.D
 Acq On : 20 Oct 2025 13:49
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/21/2025
 Supervised By : Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 14:07:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 13:10:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.537	168	138374	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	228619	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	208481	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	105998	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	10036	4.008	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	8.020%#		
35) Dibromofluoromethane	5.379	113	7733	3.839	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	7.680%#		
50) Toluene-d8	8.634	98	27914	3.999	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	8.000%#		
62) 4-Bromofluorobenzene	11.067	95	11429	4.042	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	8.080%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.172	85	7219	5.194	ug/l	93
3) Chloromethane	1.300	50	7032	5.531	ug/l	95
4) Vinyl Chloride	1.380	62	6338	5.341	ug/l	98
5) Bromomethane	1.611	94	4789	5.918	ug/l	99
6) Chloroethane	1.691	64	3610	5.085	ug/l	99
7) Trichlorofluoromethane	1.898	101	12170	5.319	ug/l	96
8) Diethyl Ether	2.136	74	3283	5.035	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.337	101	7656	5.264	ug/l	92
10) Methyl Iodide	2.453	142	7871	4.284	ug/l	98
11) Tert butyl alcohol	2.940	59	5994	33.503	ug/l #	80
12) 1,1-Dichloroethene	2.325	96	7107	4.991	ug/l	91
13) Acrolein	2.233	56	5456	27.637	ug/l	96
14) Allyl chloride	2.666	41	11531	4.839	ug/l	96
15) Acrylonitrile	3.062	53	16982	24.912	ug/l	97
16) Acetone	2.373	43	18141	27.636	ug/l	100
17) Carbon Disulfide	2.520	76	23369	5.270	ug/l	96
18) Methyl Acetate	2.703	43	6418	4.639	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	22931	4.663	ug/l	97
20) Methylene Chloride	2.788	84	8228	5.163	ug/l #	81
21) trans-1,2-Dichloroethene	3.093	96	8343	5.393	ug/l	94
22) Diisopropyl ether	3.757	45	23533	4.984	ug/l #	97
23) Vinyl Acetate	3.721	43	91771	24.336	ug/l #	90
24) 1,1-Dichloroethane	3.605	63	14582	5.126	ug/l #	97
25) 2-Butanone	4.550	43	21808	26.293	ug/l #	89
26) 2,2-Dichloropropane	4.471	77	13077	5.066	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	9312	5.084	ug/l	96
28) Bromochloromethane	4.885	49	6488	5.474	ug/l #	89
29) Tetrahydrofuran	4.995	42	12637	25.353	ug/l	98
30) Chloroform	5.086	83	15814	5.159	ug/l	96
31) Cyclohexane	5.458	56	11661	4.943	ug/l	98
32) 1,1,1-Trichloroethane	5.367	97	14399	5.115	ug/l	98
36) 1,1-Dichloropropene	5.684	75	10855	5.001	ug/l	99
37) Ethyl Acetate	4.702	43	9058m	4.970	ug/l	
38) Carbon Tetrachloride	5.672	117	14225	5.323	ug/l #	81
39) Methylcyclohexane	7.366	83	13491	5.318	ug/l	97
40) Benzene	6.031	78	32115	5.103	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
 Data File : VX048236.D
 Acq On : 20 Oct 2025 13:49
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 14:07:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M

Quant Title : SW846 8260

QLast Update : Mon Oct 20 13:10:39 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	4538m	4.817	ug/l	
42) 1,2-Dichloroethane	6.074	62	11412	4.870	ug/l	100
43) Isopropyl Acetate	6.330	43	13996	4.656	ug/l #	93
44) Trichloroethene	7.110	130	8373	5.009	ug/l	93
45) 1,2-Dichloropropane	7.415	63	7709	5.129	ug/l	99
46) Dibromomethane	7.568	93	6041	5.181	ug/l	91
47) Bromodichloromethane	7.811	83	12974	5.126	ug/l	97
48) Methyl methacrylate	7.683	41	6863	4.542	ug/l	94
49) 1,4-Dioxane	7.659	88	2020	103.402	ug/l	97
51) 4-Methyl-2-Pentanone	8.555	43	42725	24.936	ug/l	97
52) Toluene	8.708	92	21137	5.296	ug/l	97
53) t-1,3-Dichloropropene	8.964	75	12015	4.914	ug/l	98
54) cis-1,3-Dichloropropene	8.354	75	12702	4.820	ug/l	90
55) 1,1,2-Trichloroethane	9.140	97	8113	5.453	ug/l	91
56) Ethyl methacrylate	9.104	69	10320	4.713	ug/l	94
57) 1,3-Dichloropropane	9.293	76	13087	5.112	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.232	63	20764	19.525	ug/l	98
59) 2-Hexanone	9.415	43	30949	25.896	ug/l	96
60) Dibromochloromethane	9.506	129	10082	5.028	ug/l	99
61) 1,2-Dibromoethane	9.592	107	8079	5.075	ug/l	100
64) Tetrachloroethene	9.256	164	8020	5.341	ug/l	92
65) Chlorobenzene	10.061	112	23873	5.236	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.146	131	8450	5.012	ug/l	98
67) Ethyl Benzene	10.177	91	39121	5.044	ug/l	96
68) m/p-Xylenes	10.287	106	30310	10.586	ug/l	97
69) o-Xylene	10.628	106	14262	5.128	ug/l	98
70) Styrene	10.640	104	24289	5.138	ug/l	98
71) Bromoform	10.780	173	6766	5.031	ug/l #	96
73) Isopropylbenzene	10.945	105	37935	5.082	ug/l	99
74) N-amyl acetate	10.829	43	12188	4.544	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.195	83	10324	4.992	ug/l	98
76) 1,2,3-Trichloropropane	11.225	75	8134m	4.889	ug/l	
77) Bromobenzene	11.183	156	9508	5.027	ug/l	94
78) n-propylbenzene	11.286	91	44189	5.097	ug/l	99
79) 2-Chlorotoluene	11.347	91	26627	5.032	ug/l	98
80) 1,3,5-Trimethylbenzene	11.433	105	30618	4.910	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	3038	4.387	ug/l	96
82) 4-Chlorotoluene	11.439	91	31357	5.017	ug/l	97
83) tert-Butylbenzene	11.695	119	32297	5.086	ug/l	96
84) 1,2,4-Trimethylbenzene	11.731	105	31709	5.129	ug/l	100
85) sec-Butylbenzene	11.872	105	39113	5.118	ug/l	99
86) p-Isopropyltoluene	11.994	119	34155	5.185	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	18546	5.256	ug/l	99
88) 1,4-Dichlorobenzene	12.024	146	18787	5.081	ug/l	91
89) n-Butylbenzene	12.317	91	30409	5.069	ug/l	99
90) Hexachloroethane	12.518	117	6863	5.210	ug/l	98
91) 1,2-Dichlorobenzene	12.317	146	16849	5.076	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.926	75	1984	4.680	ug/l	98
93) 1,2,4-Trichlorobenzene	13.573	180	10538	4.693	ug/l	98
94) Hexachlorobutadiene	13.707	225	5113	4.948	ug/l	96
95) Naphthalene	13.756	128	26218	4.374	ug/l	98
96) 1,2,3-Trichlorobenzene	13.944	180	10040	4.906	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048236.D
Acq On : 20 Oct 2025 13:49
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 14:07:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 13:10:39 2025
Response via : Initial Calibration

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

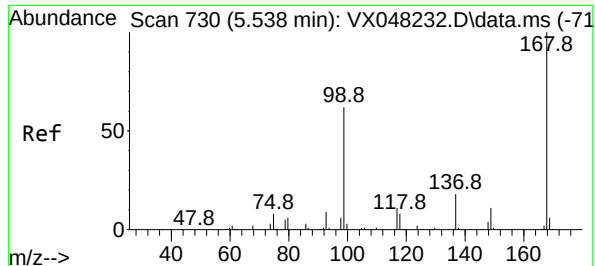
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.537 min Scan# 71

Delta R.T. -0.007 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion:168 Resp: 138374

Ion Ratio Lower Upper

168 100

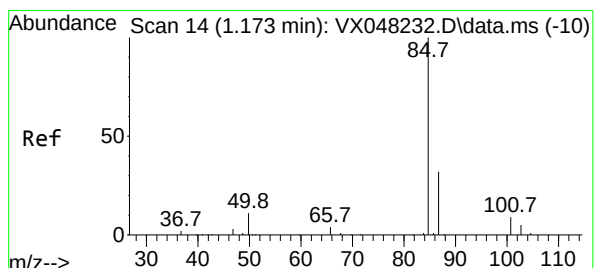
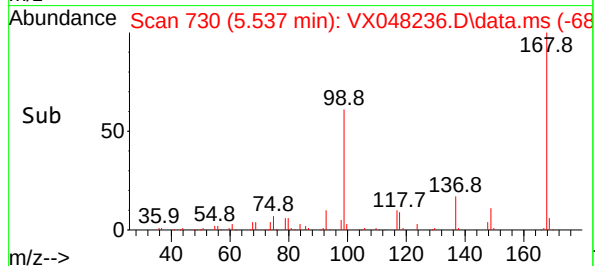
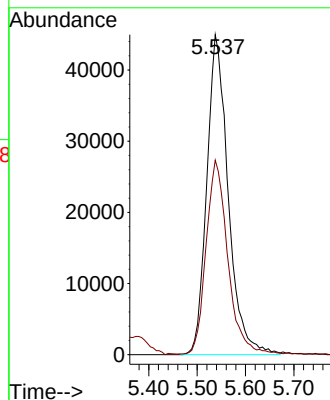
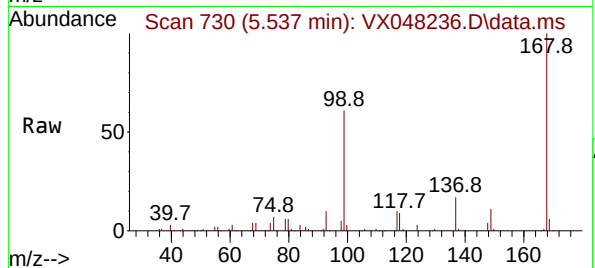
99 60.5 46.4 69.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#2

Dichlorodifluoromethane

Concen: 5.194 ug/l

RT: 1.172 min Scan# 14

Delta R.T. -0.000 min

Lab File: VX048236.D

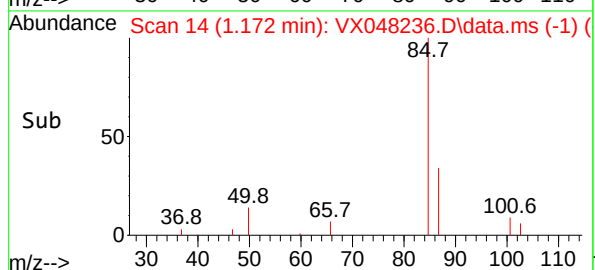
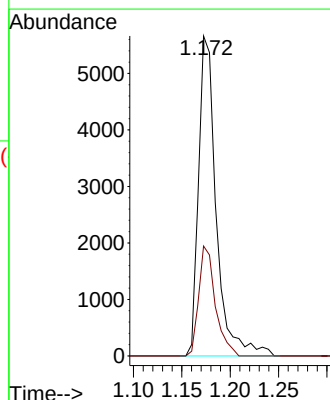
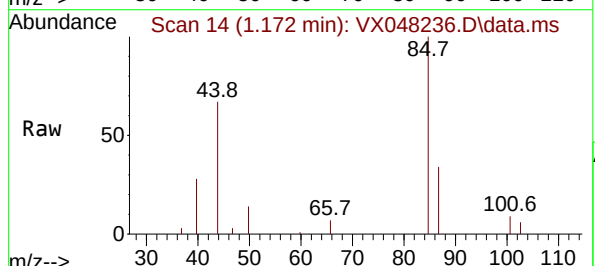
Acq: 20 Oct 2025 13:49

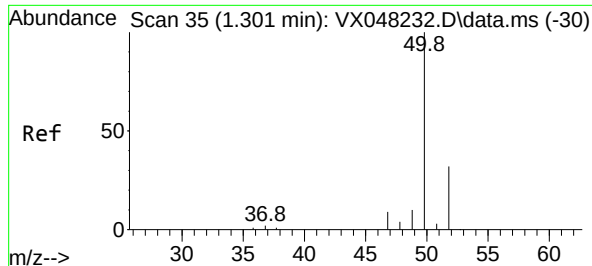
Tgt Ion: 85 Resp: 7219

Ion Ratio Lower Upper

85 100

87 34.3 15.3 45.9





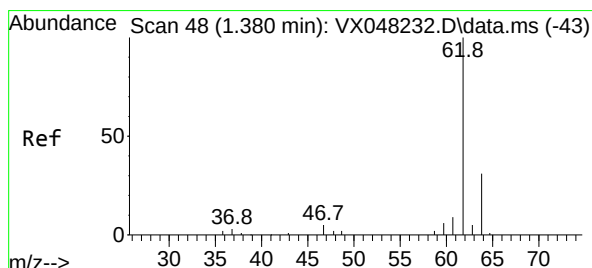
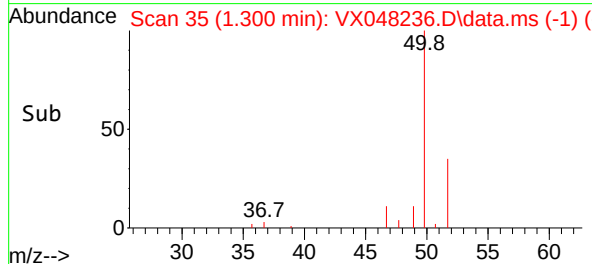
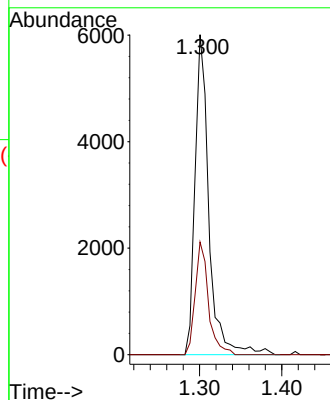
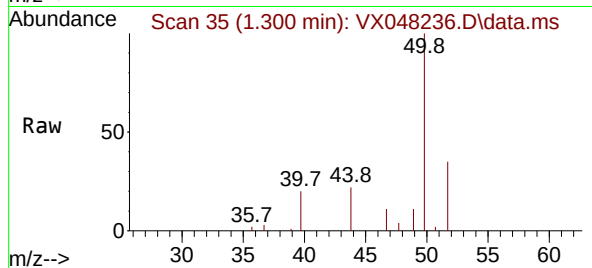
#3
Chloromethane
Concen: 5.531 ug/l
RT: 1.300 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 7032
Ion Ratio Lower Upper
50 100
52 35.2 25.9 38.9

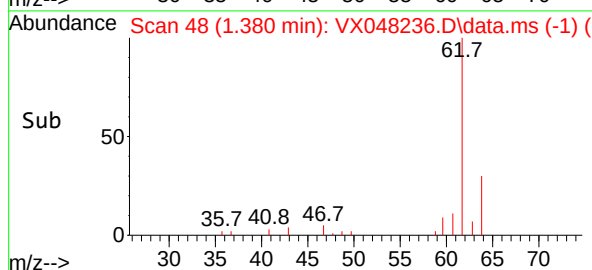
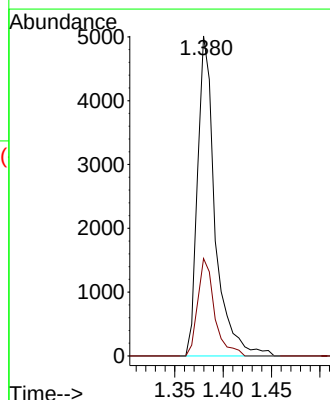
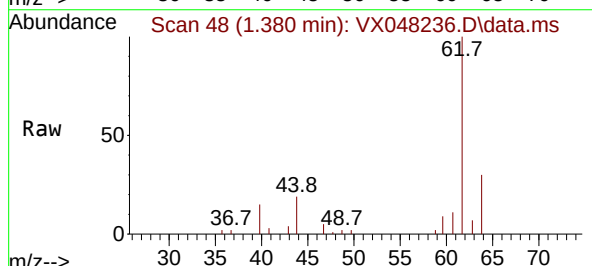
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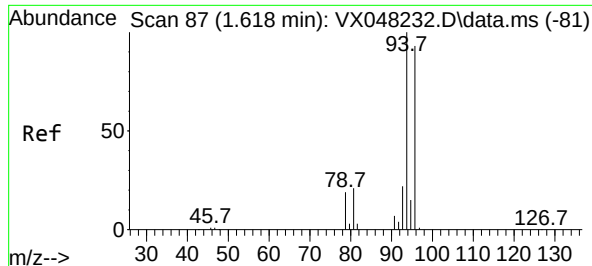
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#4
Vinyl Chloride
Concen: 5.341 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 62 Resp: 6338
Ion Ratio Lower Upper
62 100
64 30.5 25.1 37.7





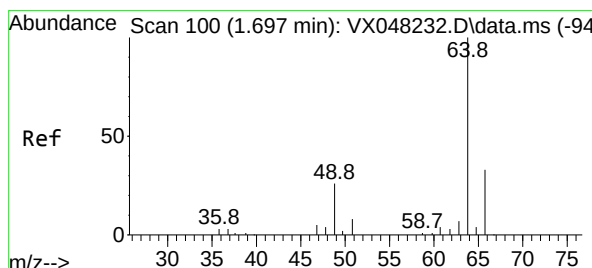
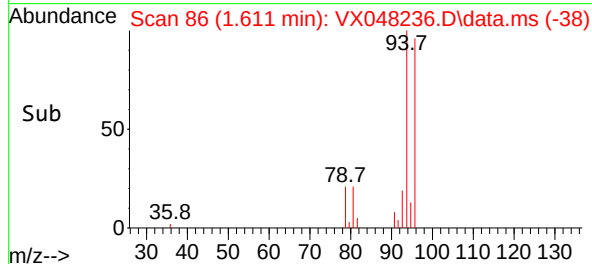
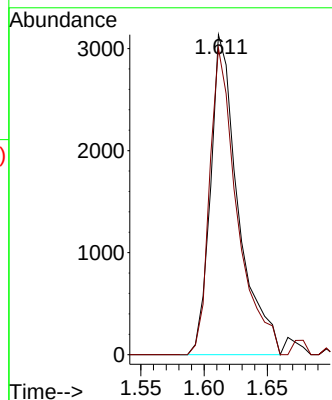
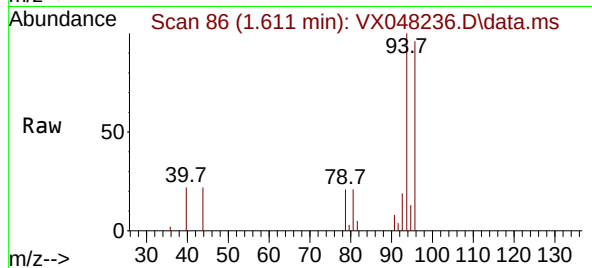
#5
Bromomethane
Concen: 5.918 ug/l
RT: 1.611 min Scan# 80
Delta R.T. -0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 4789
Ion Ratio Lower Upper
94 100
96 95.8 76.0 114.0

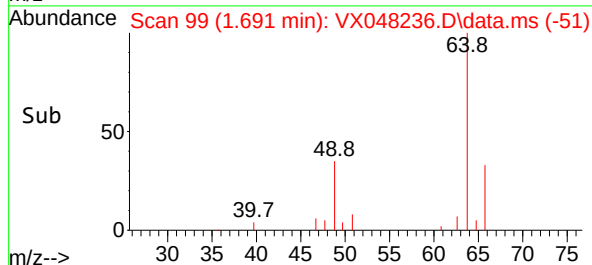
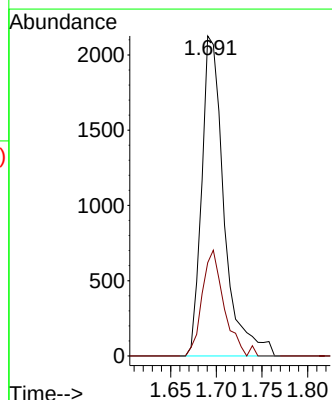
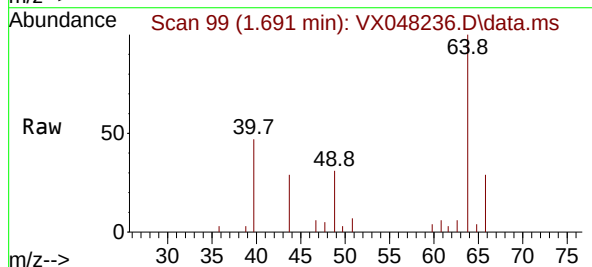
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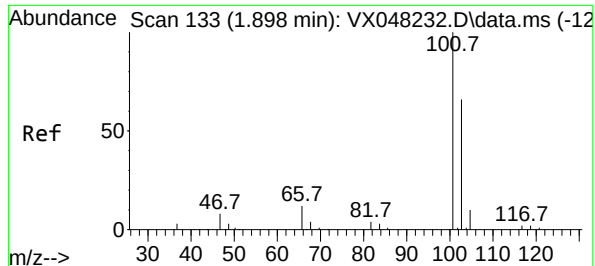
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#6
Chloroethane
Concen: 5.085 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

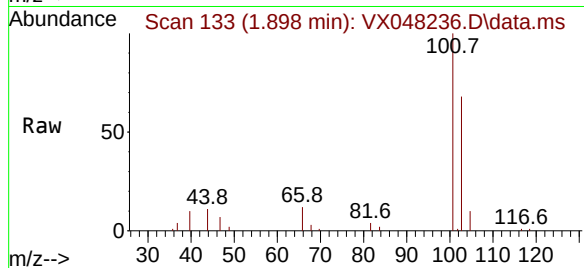
Tgt Ion: 64 Resp: 3610
Ion Ratio Lower Upper
64 100
66 29.2 23.9 35.9





#7
Trichlorofluoromethane
Concen: 5.319 ug/l
RT: 1.898 min Scan# 133
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

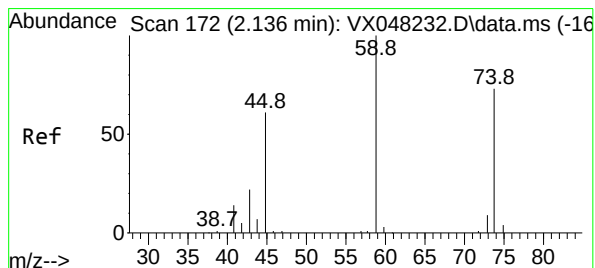
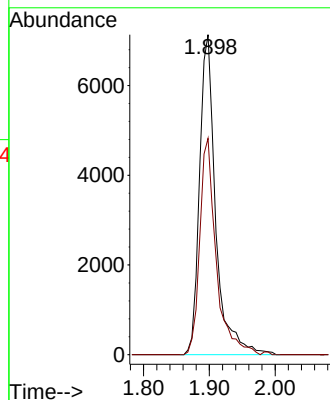
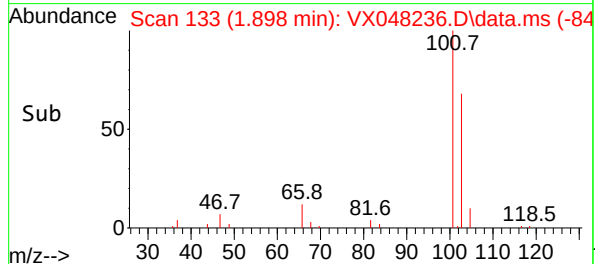
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:101 Resp: 12170
Ion Ratio Lower Upper
101 100
103 67.6 51.6 77.4

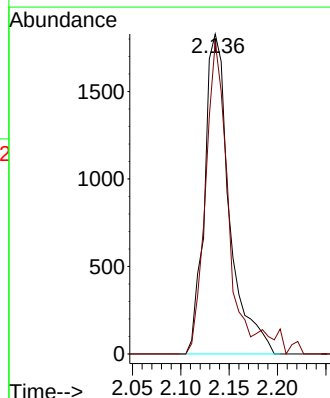
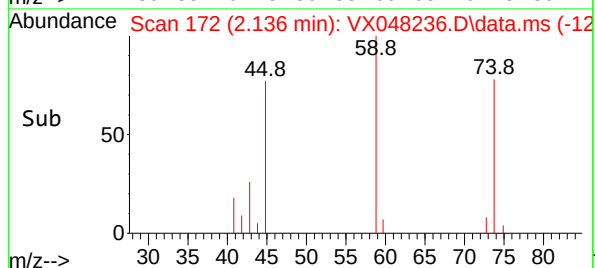
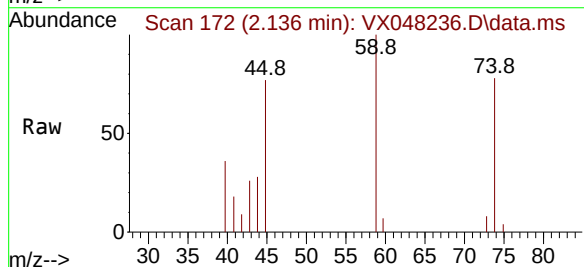
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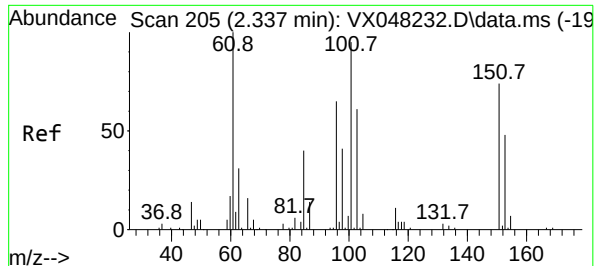
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#8
Diethyl Ether
Concen: 5.035 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 74 Resp: 3283
Ion Ratio Lower Upper
74 100
45 86.7 50.0 149.8





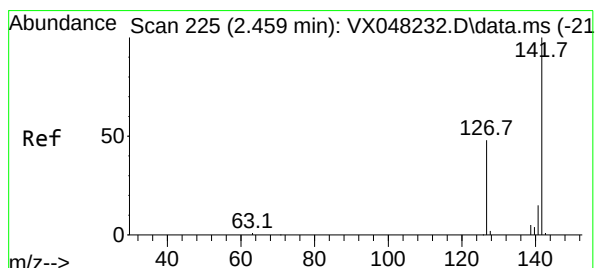
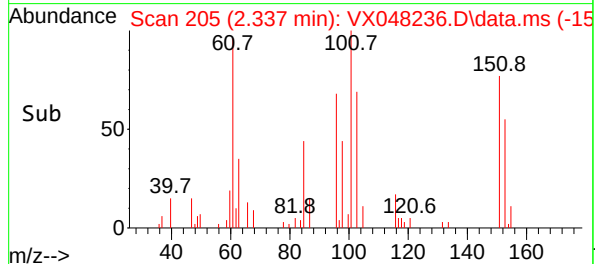
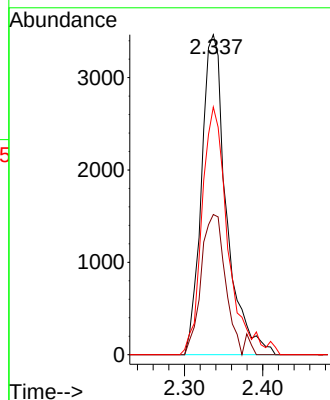
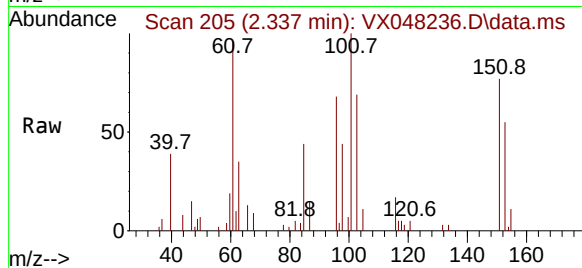
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.264 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 7650
Ion Ratio Lower Upper
101 100
85 42.4 35.6 53.4
151 81.0 58.0 87.0

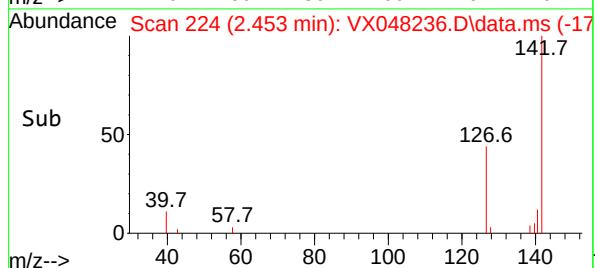
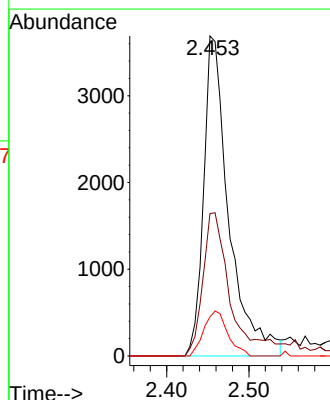
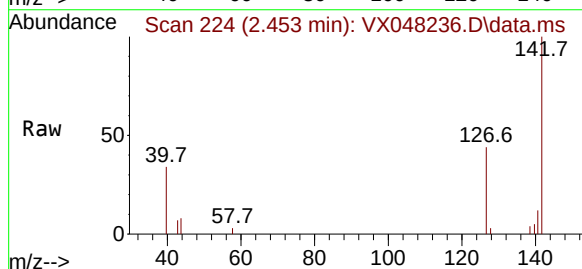
Manual Integrations
APPROVED

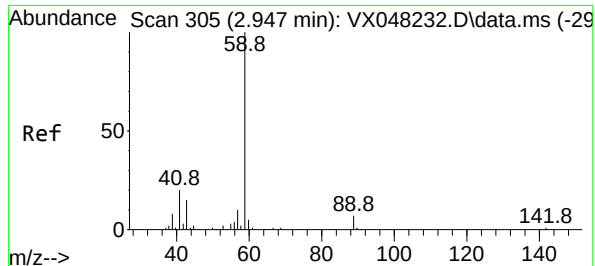
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#10
Methyl Iodide
Concen: 4.284 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:142 Resp: 7871
Ion Ratio Lower Upper
142 100
127 48.9 38.5 57.7
141 13.3 11.6 17.4





#11

Tert butyl alcohol

Concen: 33.503 ug/l

RT: 2.940 min Scan# 305

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

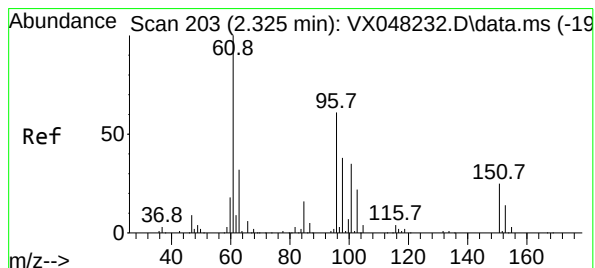
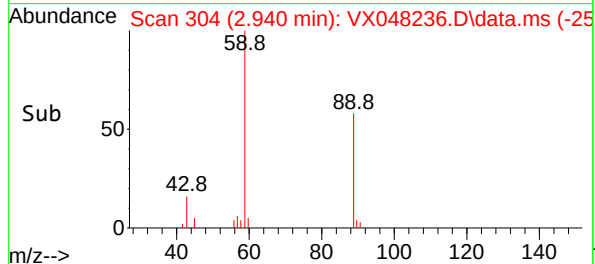
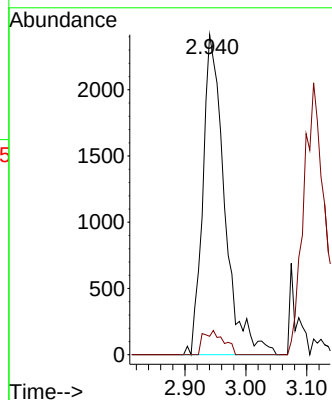
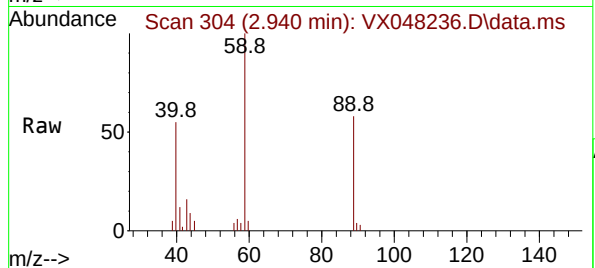
VSTDIC005

Tgt Ion: 59 Resp: 5994
Ion Ratio Lower Upper
59 100
57 2.8 8.2 12.4

Manual Integrations
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Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#12

1,1-Dichloroethene

Concen: 4.991 ug/l

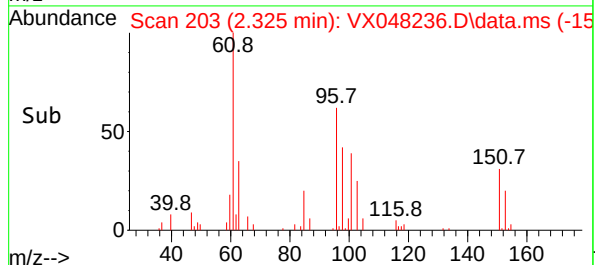
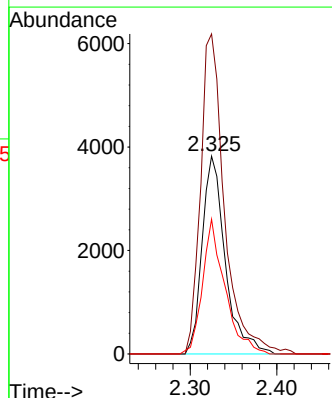
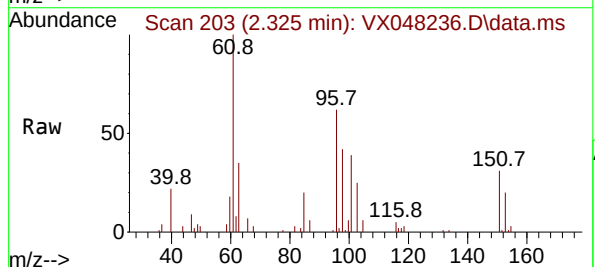
RT: 2.325 min Scan# 203

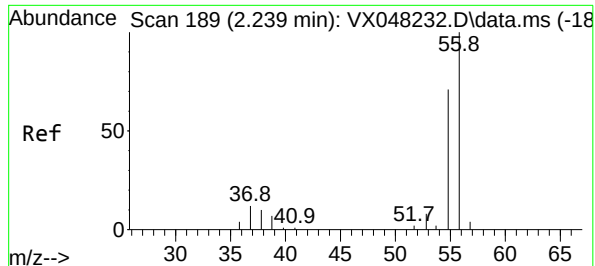
Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Tgt Ion: 96 Resp: 7107
Ion Ratio Lower Upper
96 100
61 156.9 139.0 208.6
98 66.1 52.4 78.6





#13

Acrolein

Concen: 27.637 ug/l

RT: 2.233 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 56 Resp: 5450

Ion Ratio Lower Upper

56 100

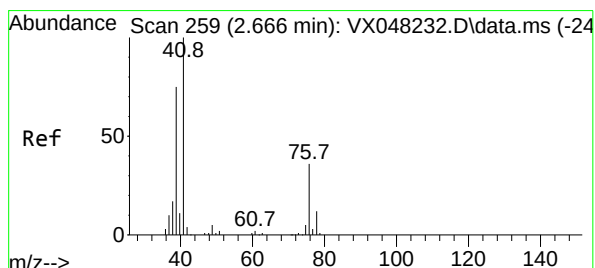
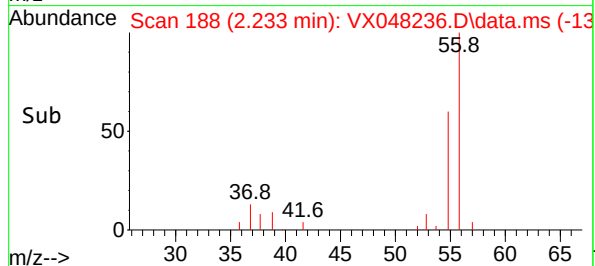
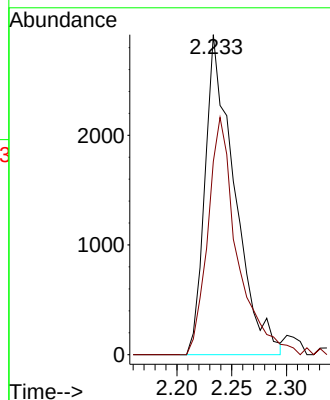
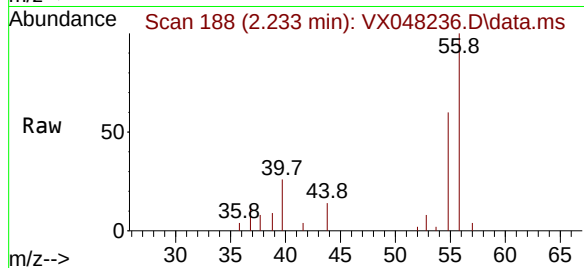
55 73.7 56.1 84.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#14

Allyl chloride

Concen: 4.839 ug/l

RT: 2.666 min Scan# 259

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

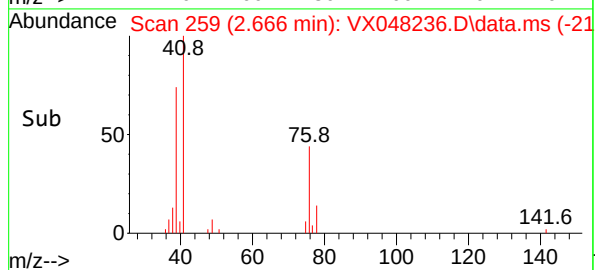
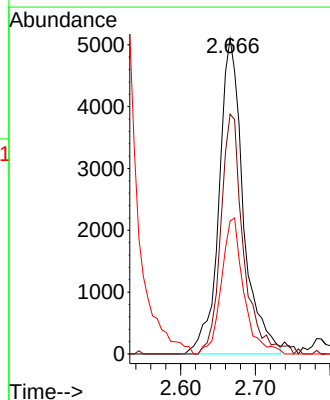
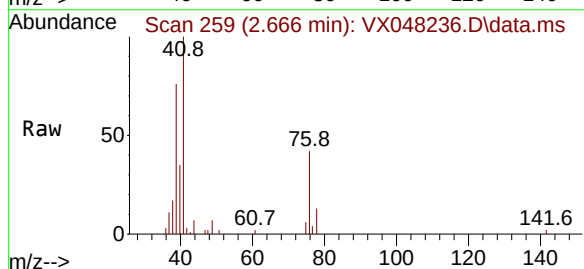
Tgt Ion: 41 Resp: 11531

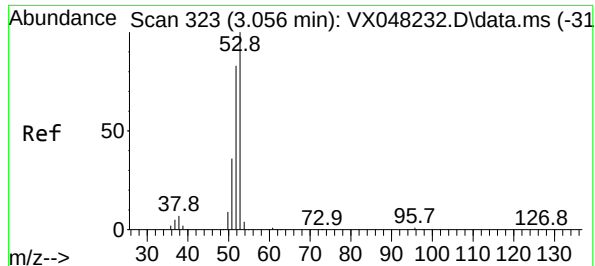
Ion Ratio Lower Upper

41 100

39 71.2 56.0 84.0

76 39.7 27.5 41.3





#15

Acrylonitrile

Concen: 24.912 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

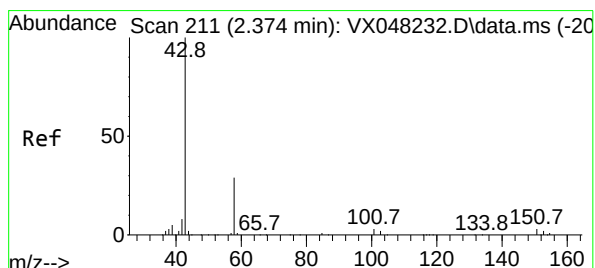
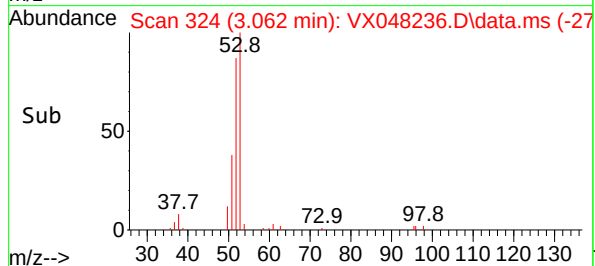
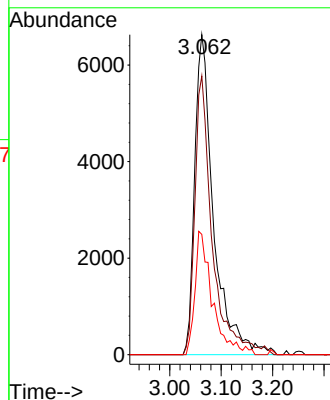
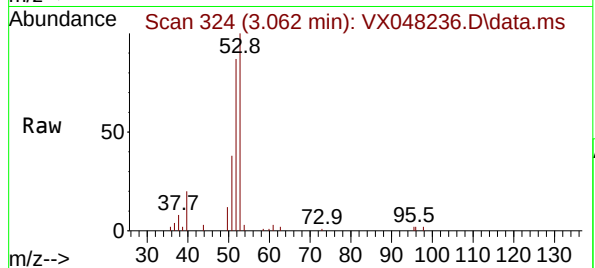
VSTDICC005

Tgt Ion:	53	Resp:	1698
Ion	Ratio	Lower	Upper
53	100		
52	80.1	66.1	99.1
51	34.9	29.0	43.4

Manual Integrations
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Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#16

Acetone

Concen: 27.636 ug/l

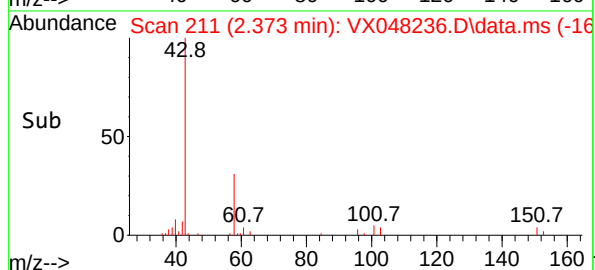
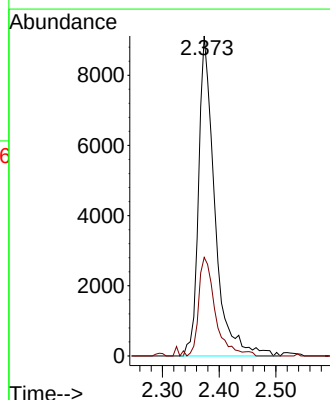
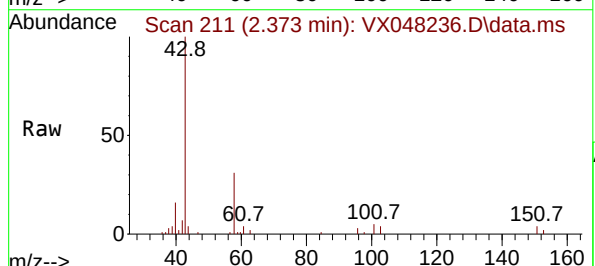
RT: 2.373 min Scan# 211

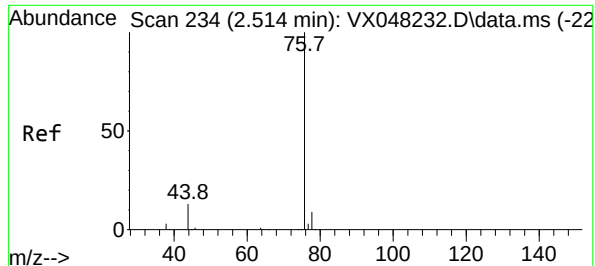
Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Tgt Ion:	43	Resp:	18141
Ion	Ratio	Lower	Upper
43	100		
58	29.5	23.4	35.2





#17

Carbon Disulfide

Concen: 5.270 ug/l

RT: 2.520 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 2336

Ion Ratio Lower Upper

76 100

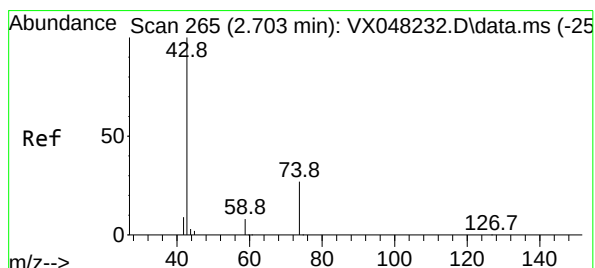
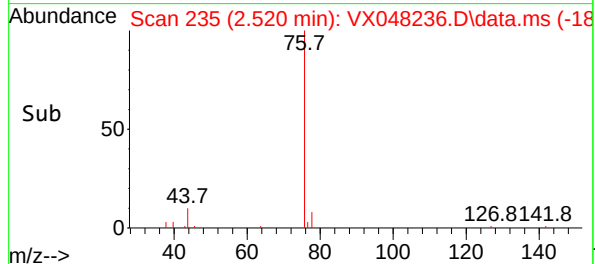
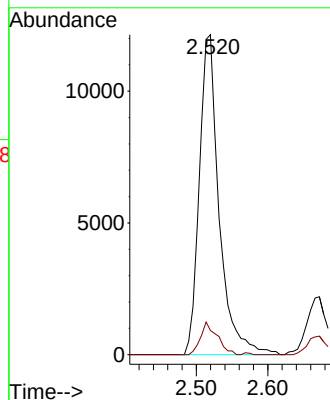
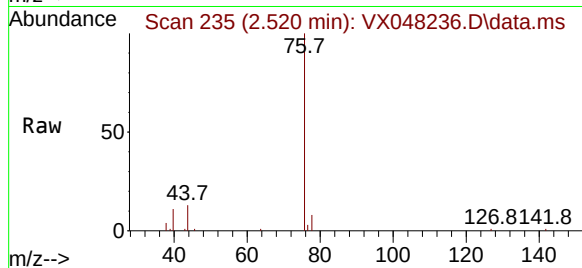
78 7.3 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#18

Methyl Acetate

Concen: 4.639 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.006 min

Lab File: VX048236.D

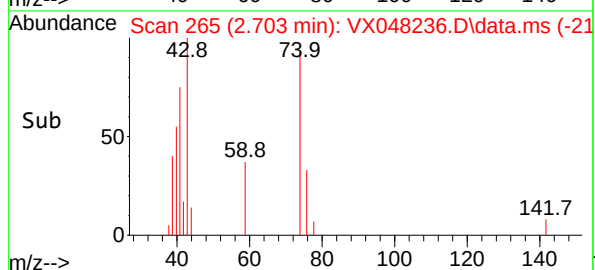
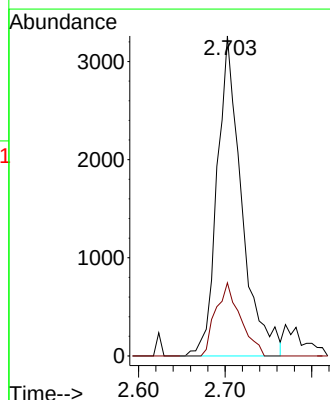
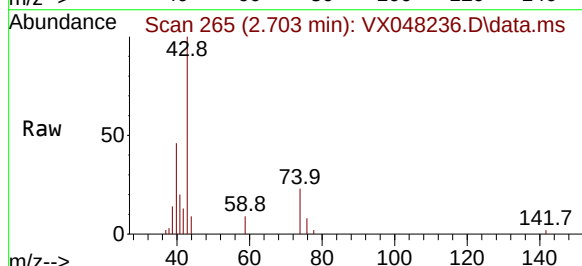
Acq: 20 Oct 2025 13:49

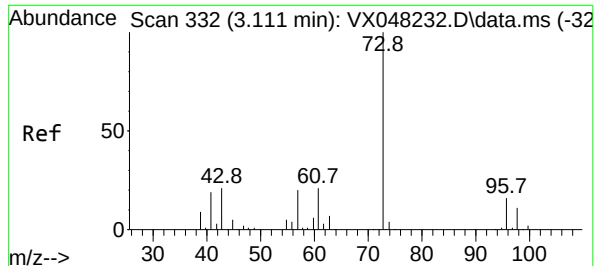
Tgt Ion: 43 Resp: 6418

Ion Ratio Lower Upper

43 100

74 23.0 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 4.663 ug/l

RT: 3.111 min Scan# 311

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 2293

Ion Ratio Lower Upper

73 100

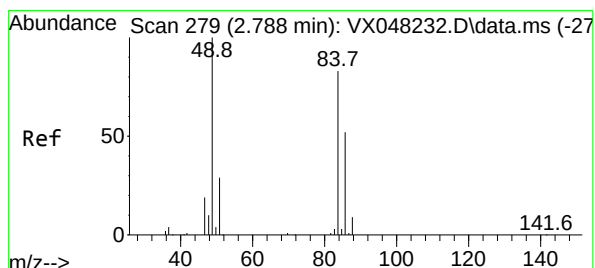
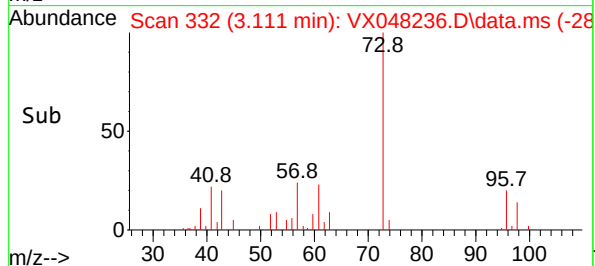
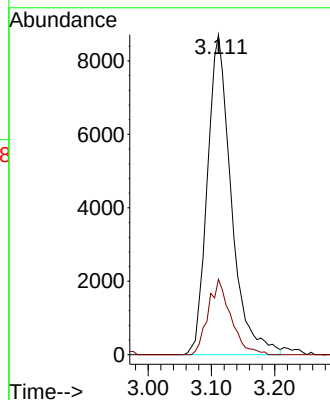
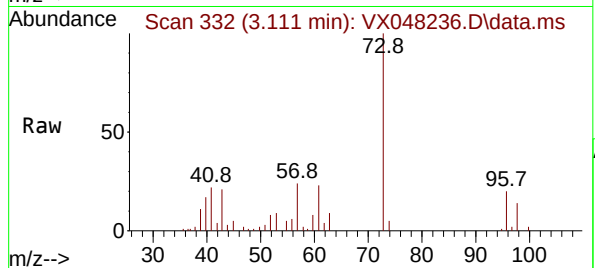
57 23.6 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#20

Methylene Chloride

Concen: 5.163 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Tgt Ion: 84 Resp: 8228

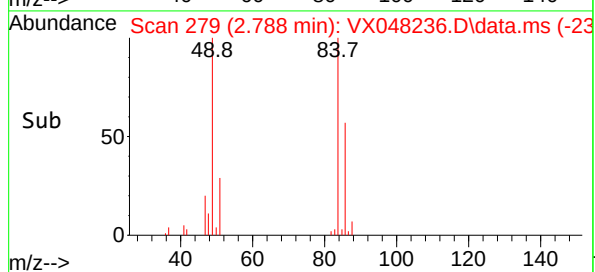
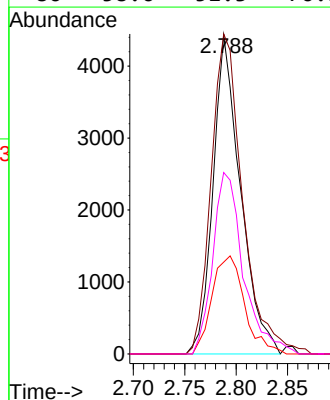
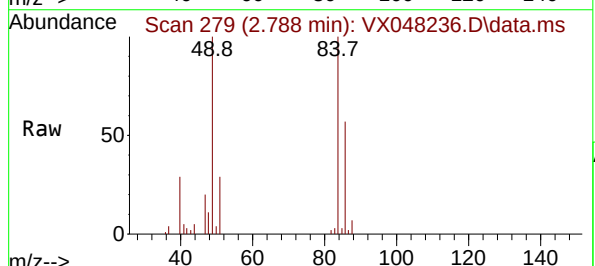
Ion Ratio Lower Upper

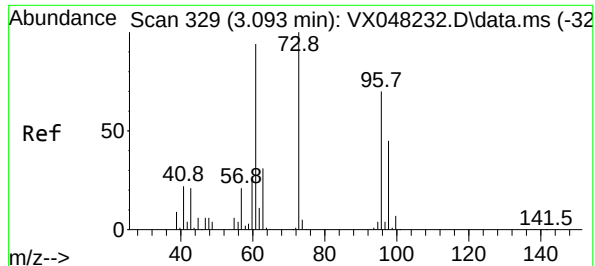
84 100

49 100.4 104.1 156.1#

51 28.8 31.3 46.9#

86 58.6 51.3 76.9





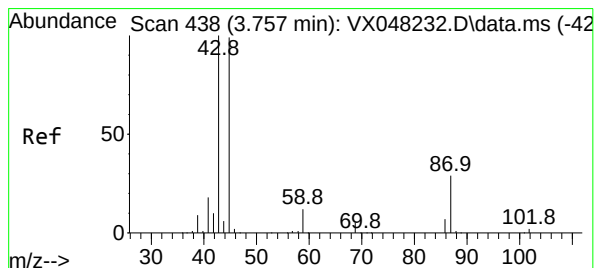
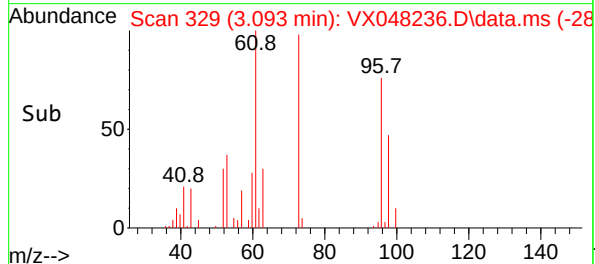
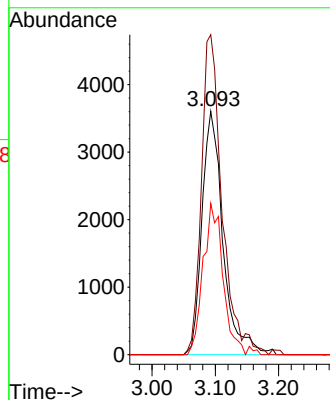
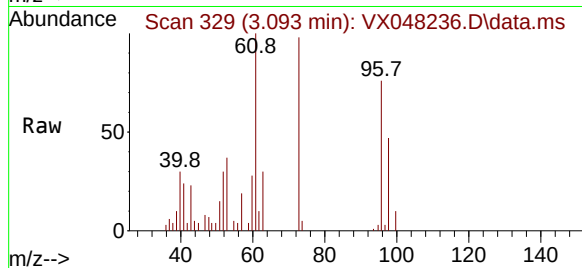
#21
trans-1,2-Dichloroethene
Concen: 5.393 ug/l
RT: 3.093 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 834
Ion Ratio Lower Upper
96 100
61 131.5 111.9 167.9
98 62.1 51.2 76.8

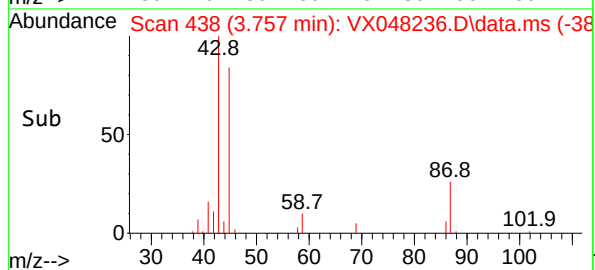
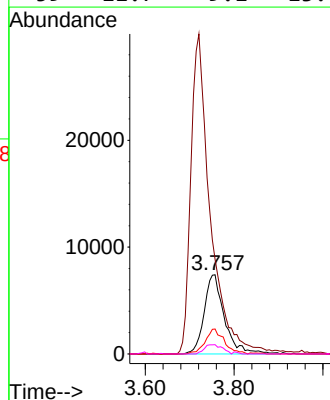
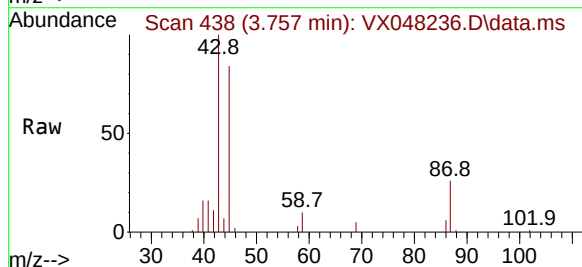
Manual Integrations
APPROVED

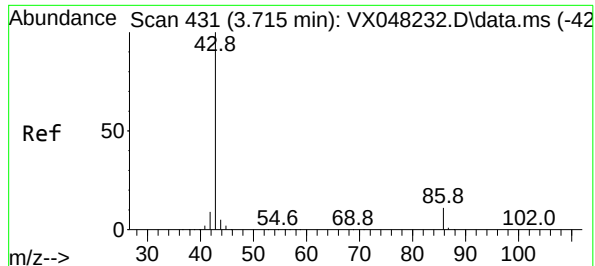
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#22
Diisopropyl ether
Concen: 4.984 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 45 Resp: 23533
Ion Ratio Lower Upper
45 100
43 113.3 89.8 134.8
87 31.5 20.6 31.0#
59 11.7 9.1 13.7





#23

Vinyl Acetate

Concen: 24.336 ug/l

RT: 3.721 min Scan# 41

Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 9177

Ion Ratio Lower Upper

43 100

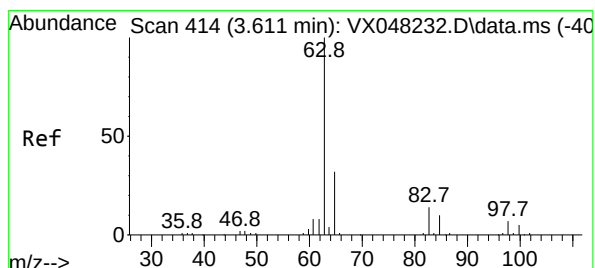
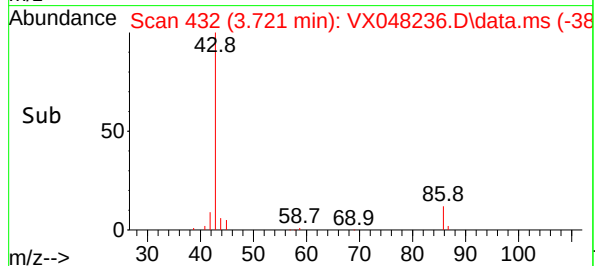
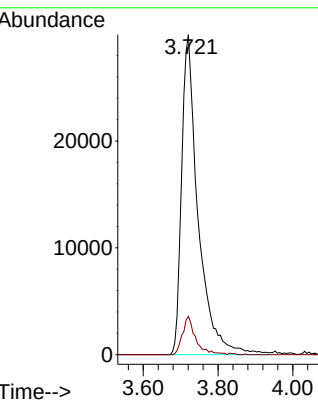
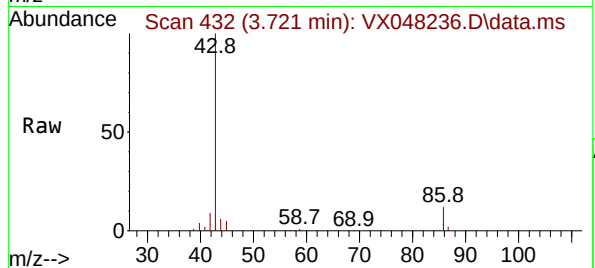
86 13.5 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#24

1,1-Dichloroethane

Concen: 5.126 ug/l

RT: 3.605 min Scan# 413

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

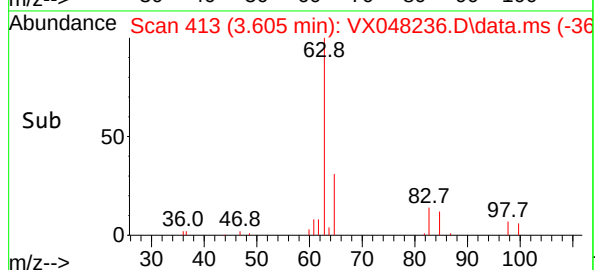
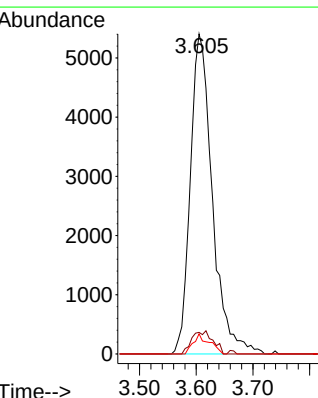
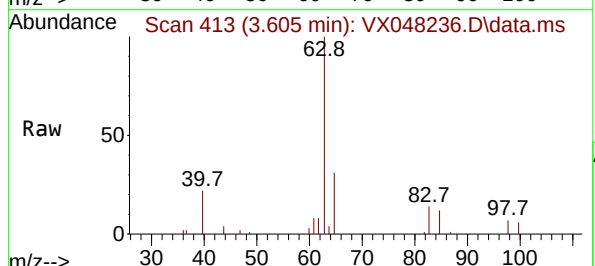
Tgt Ion: 63 Resp: 14582

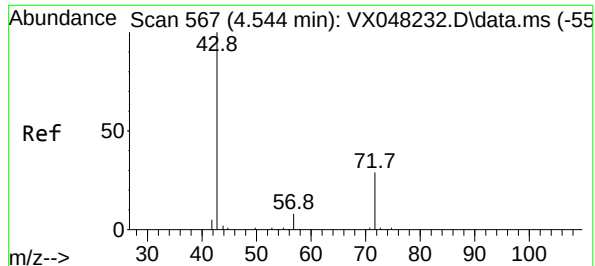
Ion Ratio Lower Upper

63 100

98 6.8 3.5 10.6

100 6.3 2.1 6.3





#25

2-Butanone

Concen: 26.293 ug/l

RT: 4.550 min Scan# 50

Delta R.T. 0.012 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 2180

Ion Ratio Lower Upper

43 100

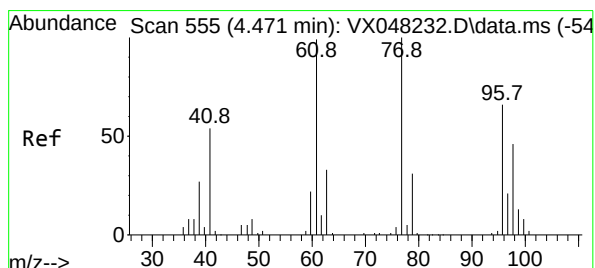
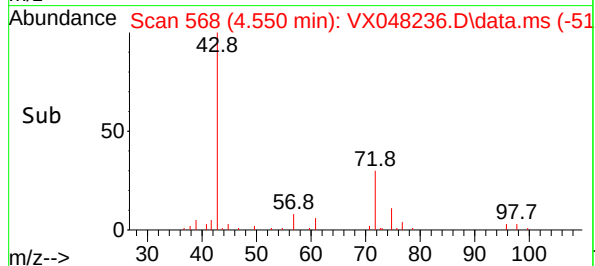
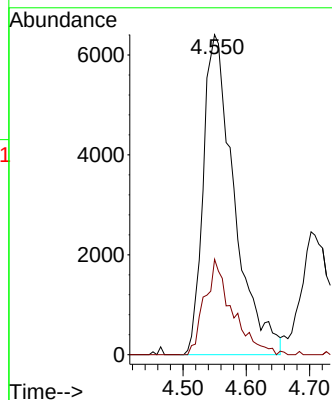
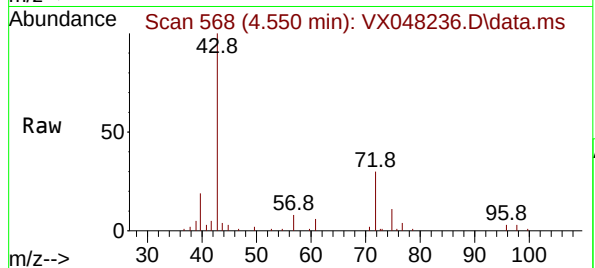
72 30.6 19.9 29.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#26

2,2-Dichloropropane

Concen: 5.066 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.006 min

Lab File: VX048236.D

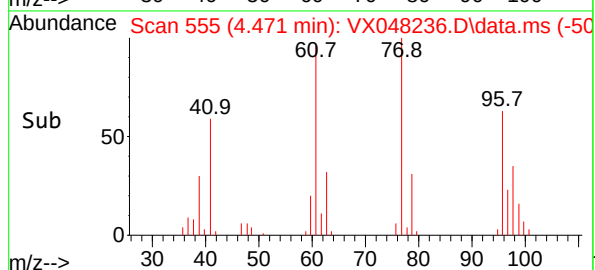
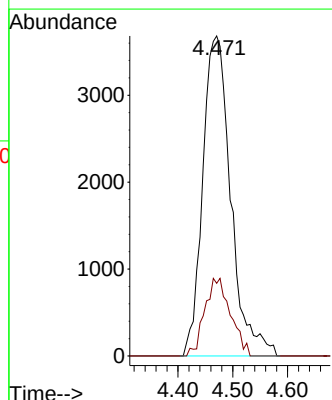
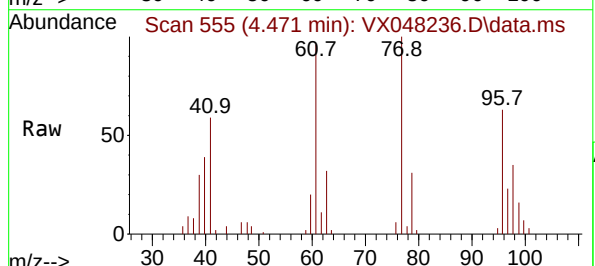
Acq: 20 Oct 2025 13:49

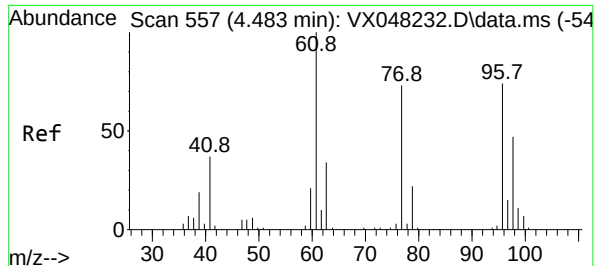
Tgt Ion: 77 Resp: 13077

Ion Ratio Lower Upper

77 100

97 22.5 11.1 33.3





#27

cis-1,2-Dichloroethene

Concen: 5.084 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

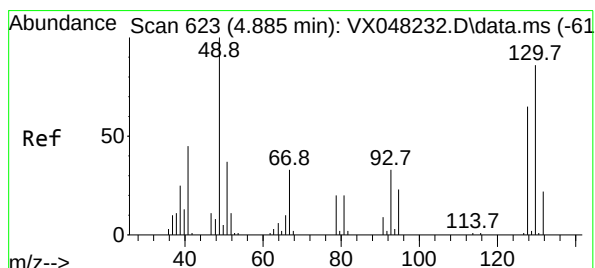
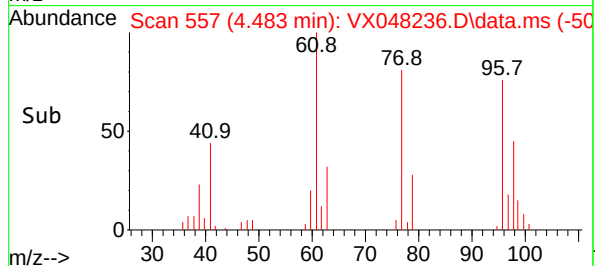
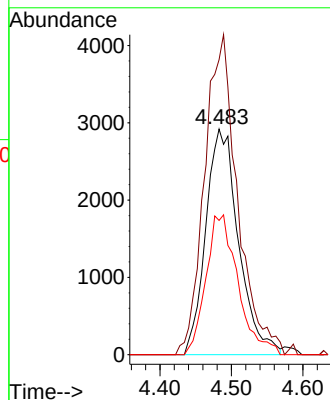
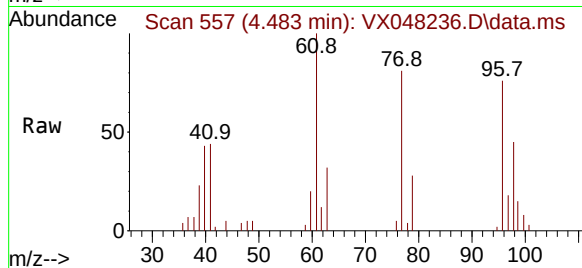
ClientSampleId :

VSTDICC005

Tgt Ion:	96	Resp:	931
Ion	Ratio	Lower	Upper
96	100		
61	142.5	0.0	294.2
98	60.5	0.0	128.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#28

Bromochloromethane

Concen: 5.474 ug/l

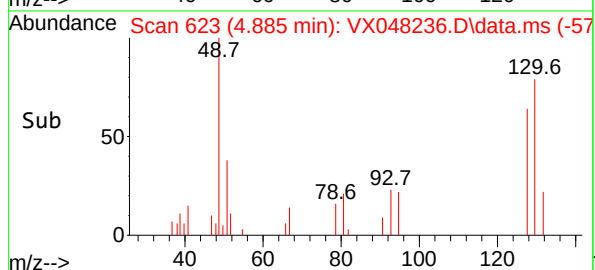
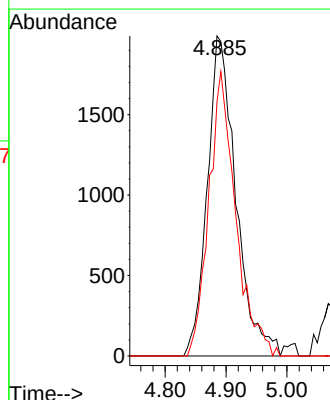
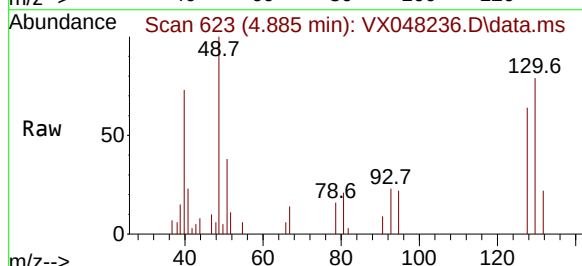
RT: 4.885 min Scan# 623

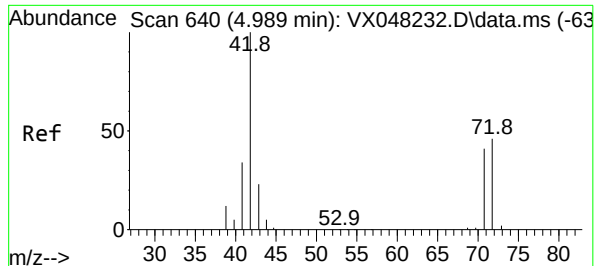
Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Tgt Ion:	49	Resp:	6488
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.4
130	83.5	59.3	88.9





#29

Tetrahydrofuran

Concen: 25.353 ug/l

RT: 4.995 min Scan# 641

Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

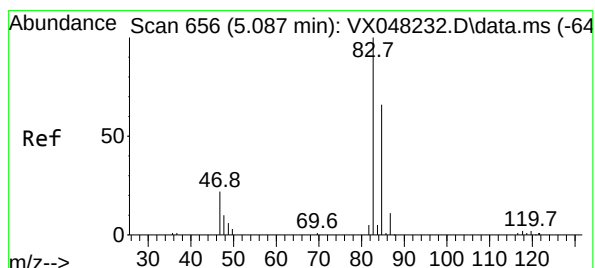
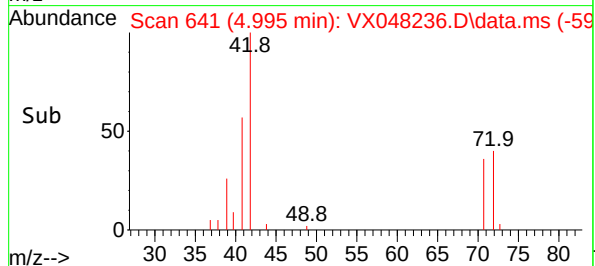
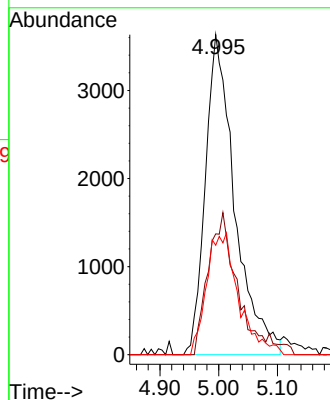
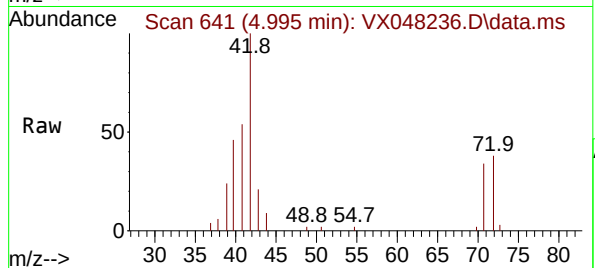
ClientSampleId :

VSTDIC005

Tgt Ion:	42	Resp:	1263
Ion	Ratio	Lower	Upper
42	100		
72	45.5	35.3	52.9
71	41.3	32.2	48.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#30

Chloroform

Concen: 5.159 ug/l

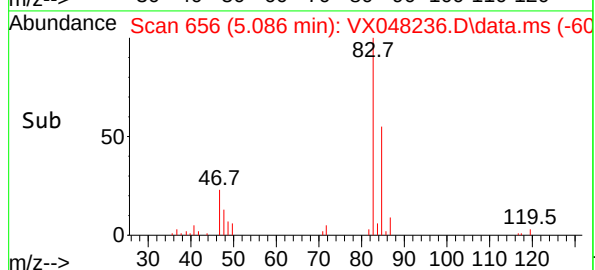
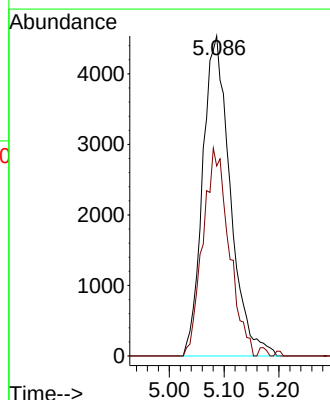
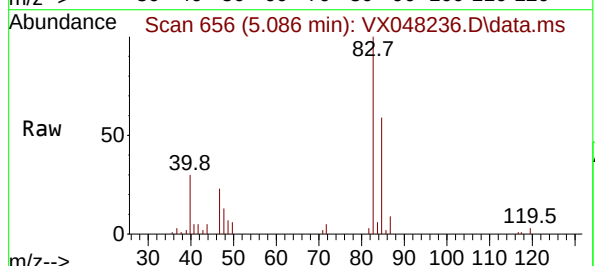
RT: 5.086 min Scan# 656

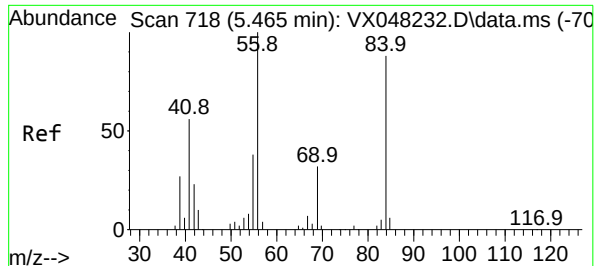
Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Tgt Ion:	83	Resp:	15814
Ion	Ratio	Lower	Upper
83	100		
85	59.4	50.1	75.1





#31

Cyclohexane

Concen: 4.943 ug/l

RT: 5.458 min Scan# 718

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 1166

Ion Ratio Lower Upper

56 100

69 29.4 23.0 34.6

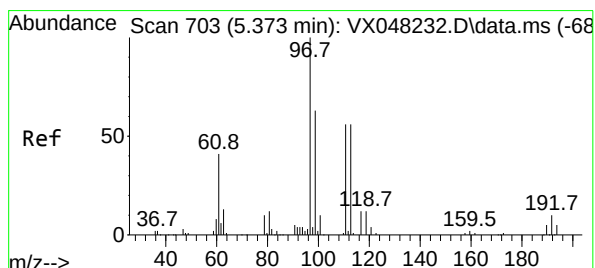
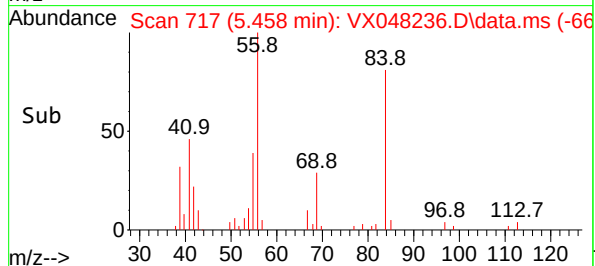
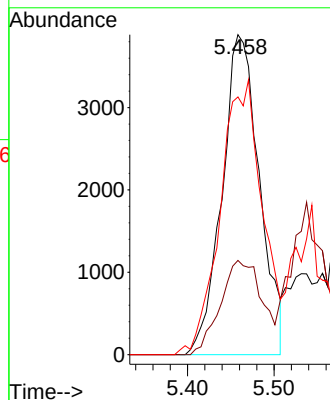
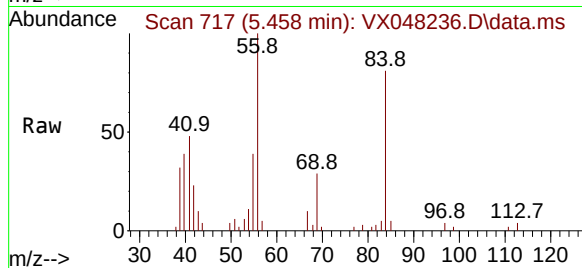
84 79.1 64.6 97.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#32

1,1,1-Trichloroethane

Concen: 5.115 ug/l

RT: 5.367 min Scan# 702

Delta R.T. -0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

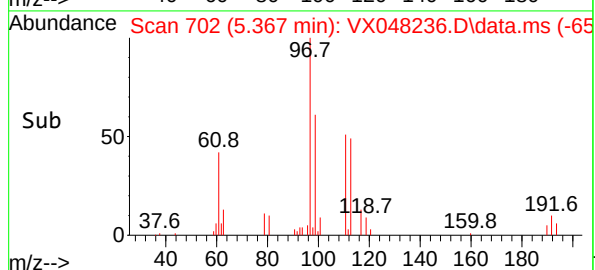
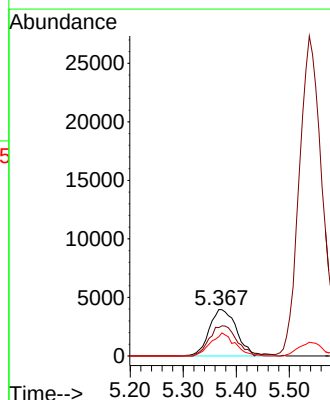
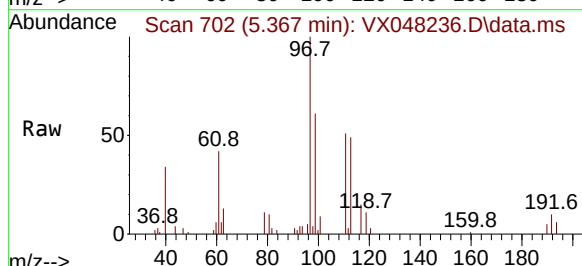
Tgt Ion: 97 Resp: 14399

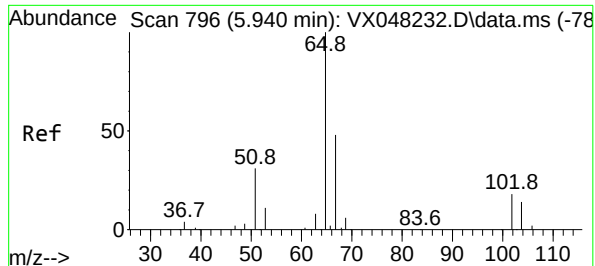
Ion Ratio Lower Upper

97 100

99 63.0 51.7 77.5

61 42.8 34.8 52.2





#33

1,2-Dichloroethane-d4

Concen: 4.008 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 65 Resp: 1003

Ion Ratio Lower Upper

65 100

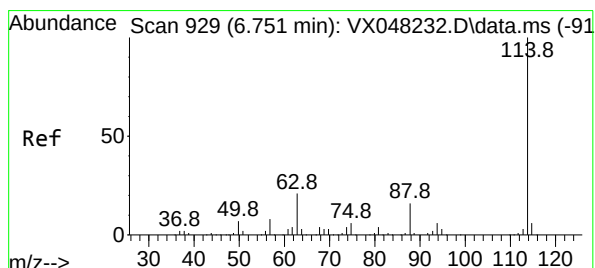
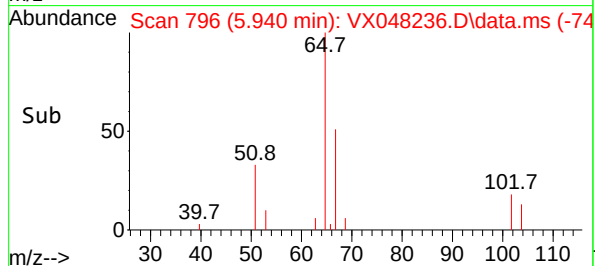
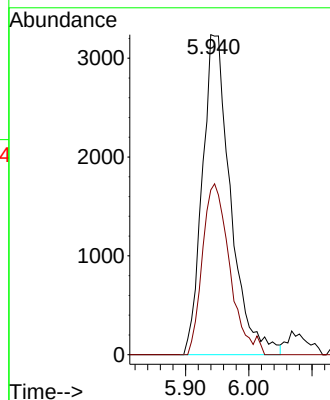
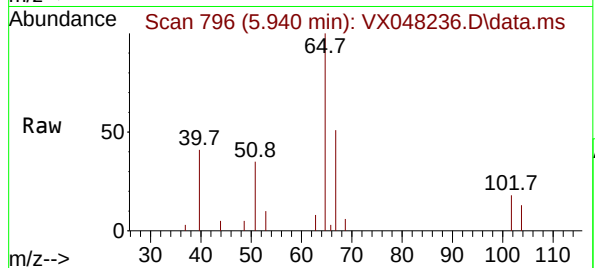
67 51.7 0.0 105.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

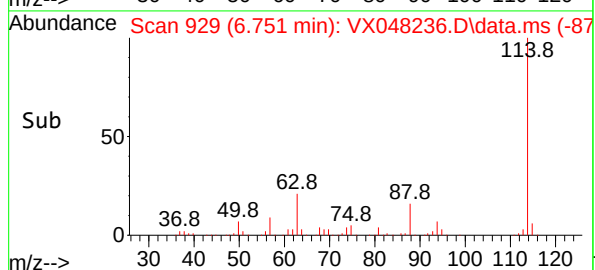
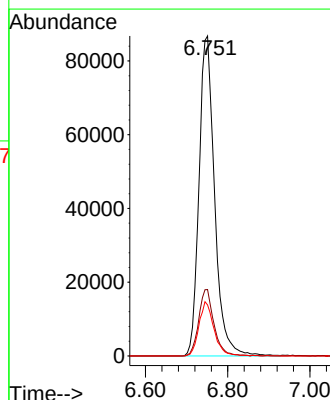
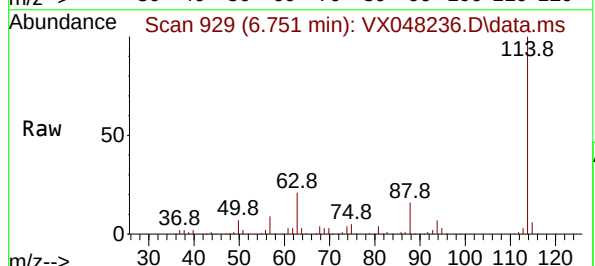
Tgt Ion:114 Resp: 228619

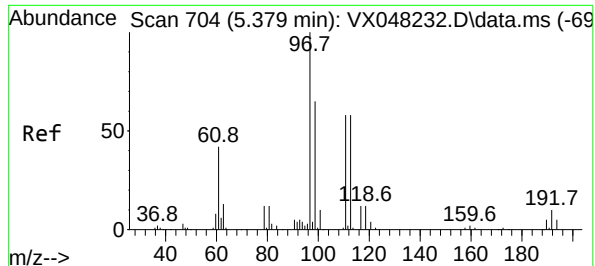
Ion Ratio Lower Upper

114 100

63 20.8 0.0 43.2

88 15.9 0.0 33.6





#35

Dibromofluoromethane

Concen: 3.839 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

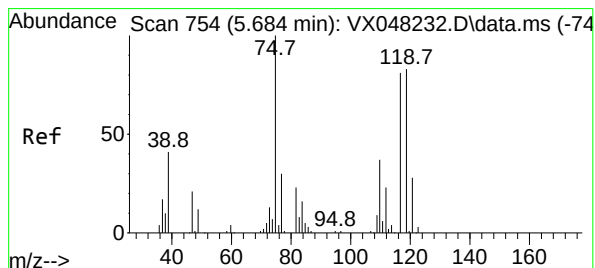
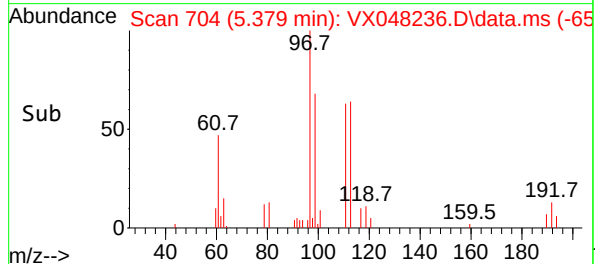
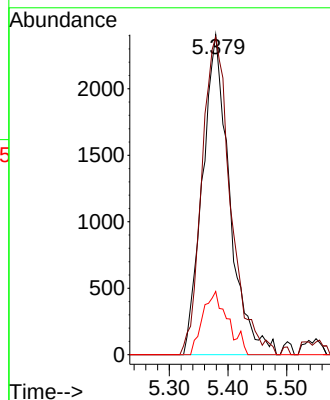
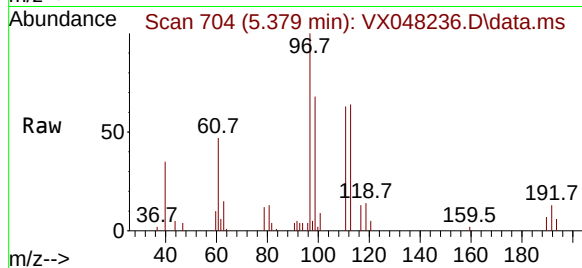
Tgt Ion:	113	Resp:	773
Ion	Ratio	Lower	Upper
113	100		
111	104.9	82.2	123.4
192	18.3	15.1	22.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#36

1,1-Dichloropropene

Concen: 5.001 ug/l

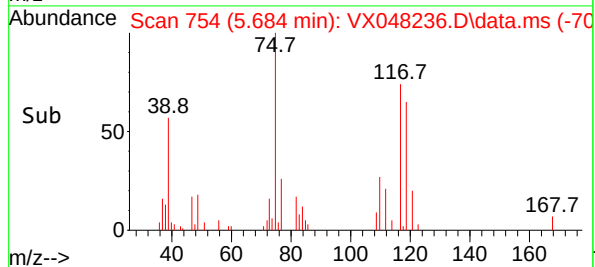
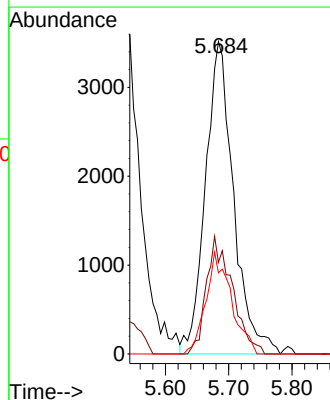
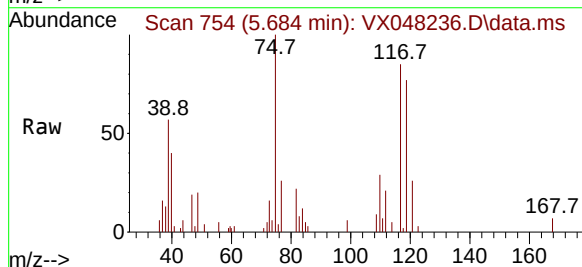
RT: 5.684 min Scan# 754

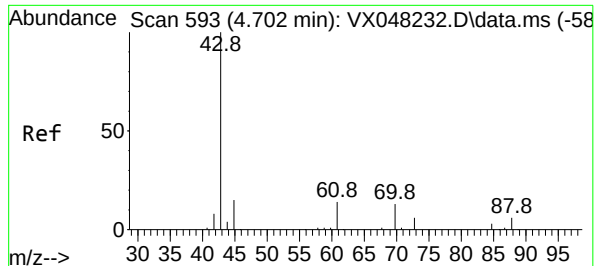
Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Tgt Ion:	75	Resp:	10855
Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.7	53.1
77	29.5	24.3	36.5





#37

Ethyl Acetate

Concen: 4.970 ug/l m

RT: 4.702 min Scan# 593

Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

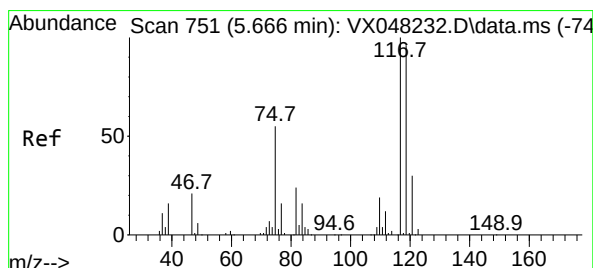
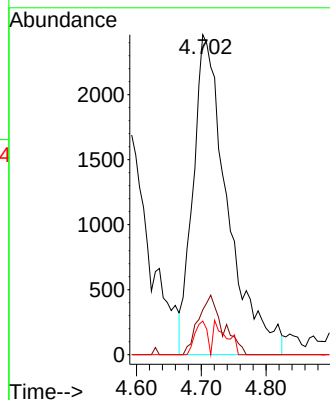
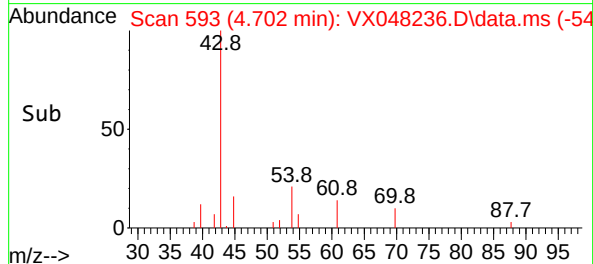
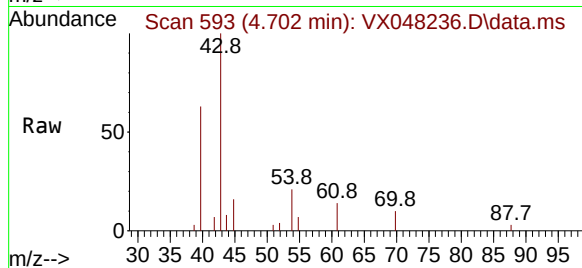
ClientSampleId :

VSTDIC005

Tgt Ion:	43	Resp:	905
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.6	15.8
70	3.7	7.8	11.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#38

Carbon Tetrachloride

Concen: 5.323 ug/l

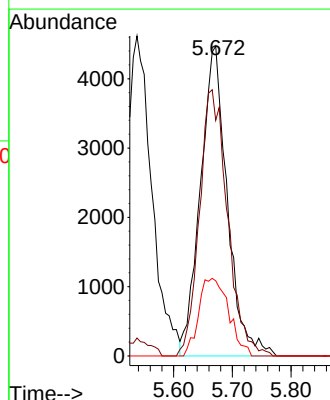
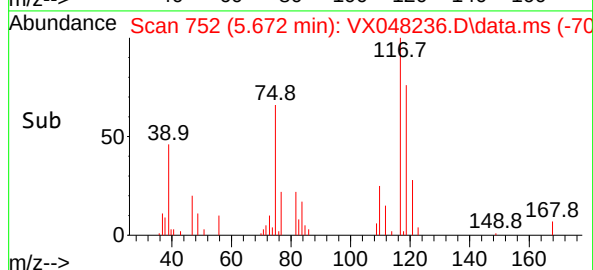
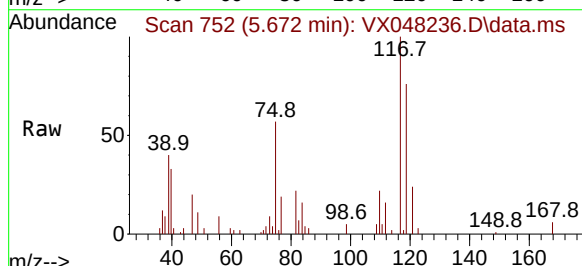
RT: 5.672 min Scan# 752

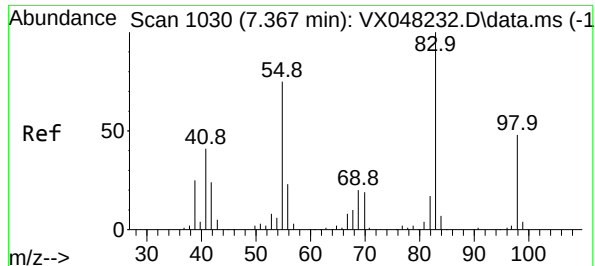
Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Tgt Ion:	117	Resp:	14225
Ion	Ratio	Lower	Upper
117	100		
119	76.0	77.2	115.8
121	24.3	24.8	37.2





#39

Methylcyclohexane

Concen: 5.318 ug/l

RT: 7.366 min Scan# 1030

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

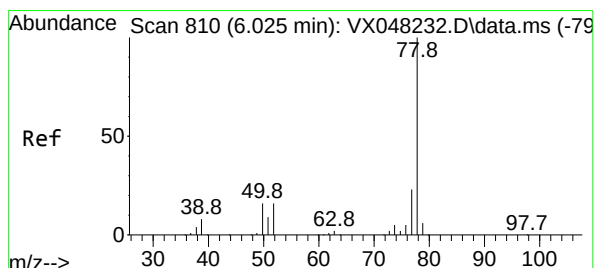
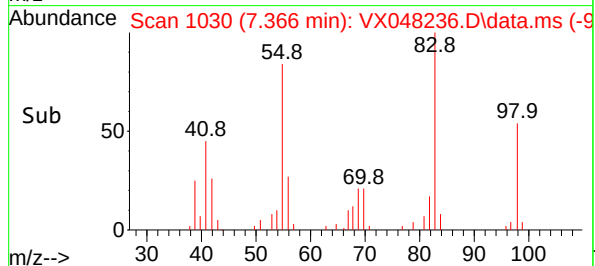
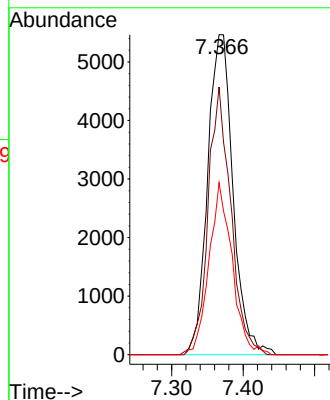
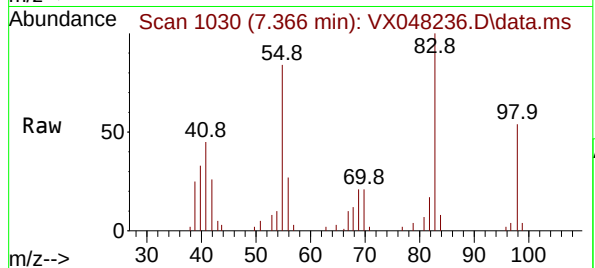
Tgt Ion:	83	Resp:	1349
Ion	Ratio	Lower	Upper
83	100		
55	83.6	66.2	99.2
98	53.8	38.9	58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#40

Benzene

Concen: 5.103 ug/l

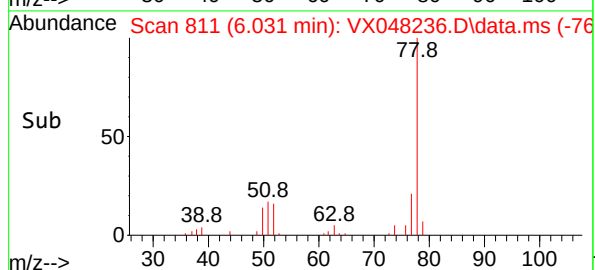
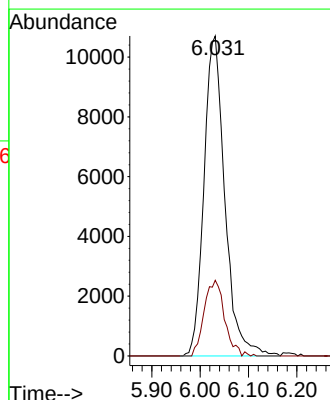
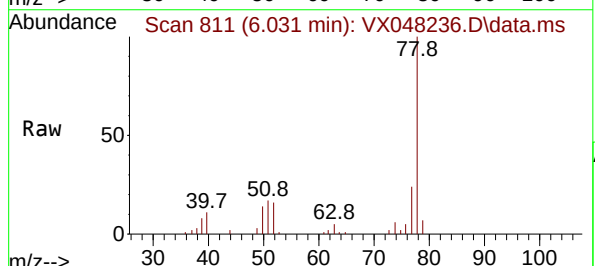
RT: 6.031 min Scan# 811

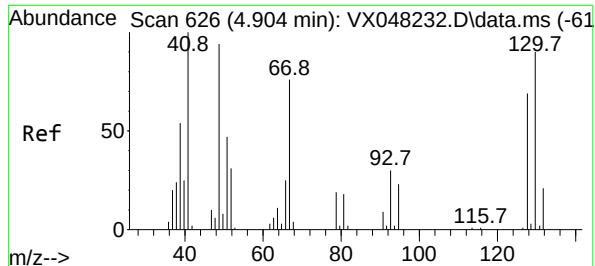
Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

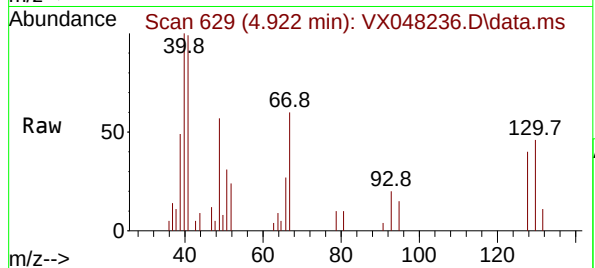
Tgt Ion:	78	Resp:	32115
Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.3	28.9





#41
Methacrylonitrile
Concen: 4.817 ug/l m
RT: 4.922 min Scan# 61
Delta R.T. 0.018 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

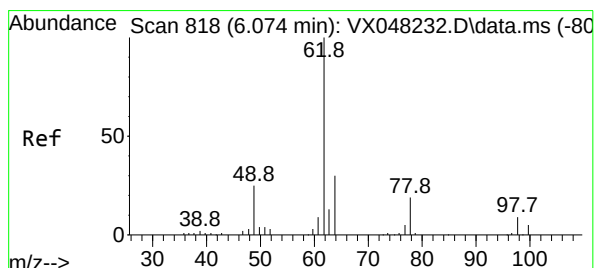
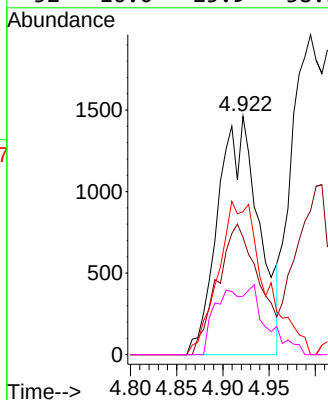
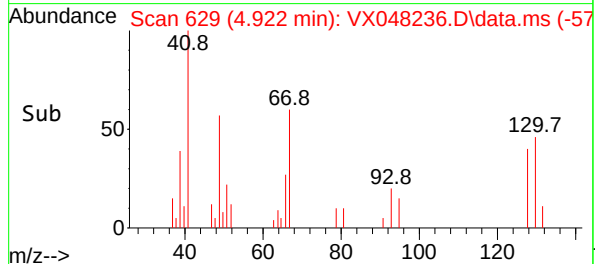
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 41 Resp: 4538
Ion Ratio Lower Upper
41 100
39 55.3 44.0 66.0
67 72.8 58.7 88.1
52 16.0 25.9 38.9#

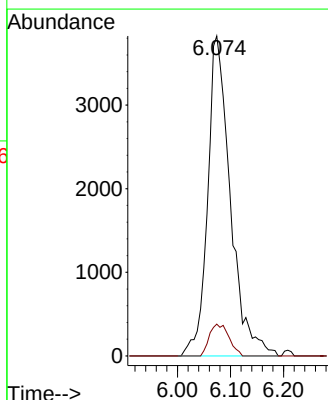
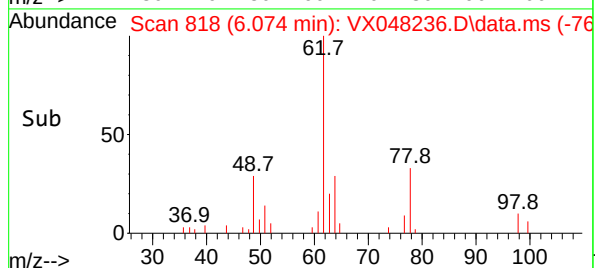
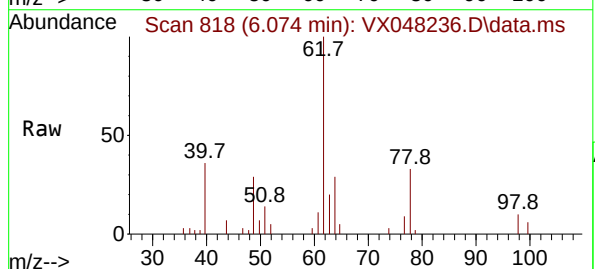
Manual Integrations
APPROVED

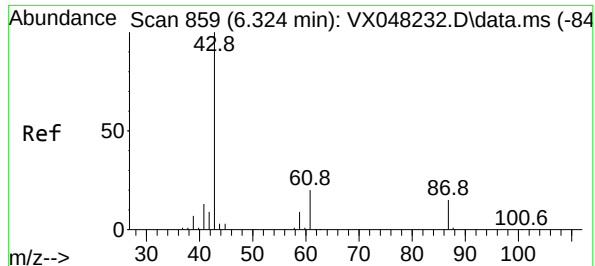
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#42
1,2-Dichloroethane
Concen: 4.870 ug/l
RT: 6.074 min Scan# 818
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 62 Resp: 11412
Ion Ratio Lower Upper
62 100
98 8.6 0.0 17.2





#43

Isopropyl Acetate

Concen: 4.656 ug/l

RT: 6.330 min Scan# 8

Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

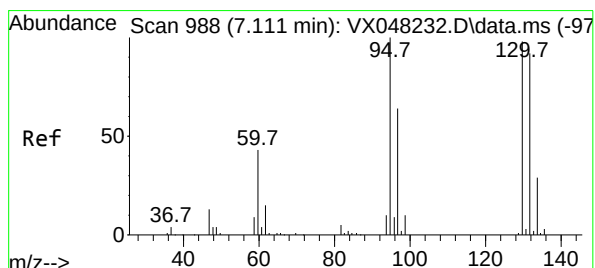
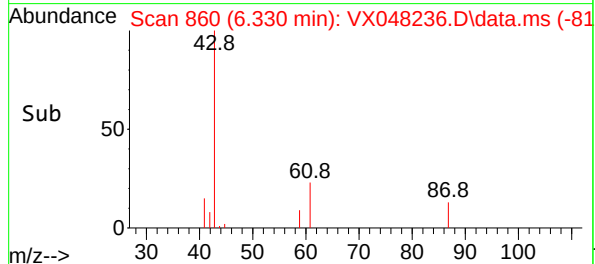
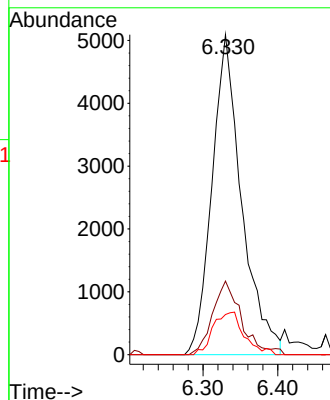
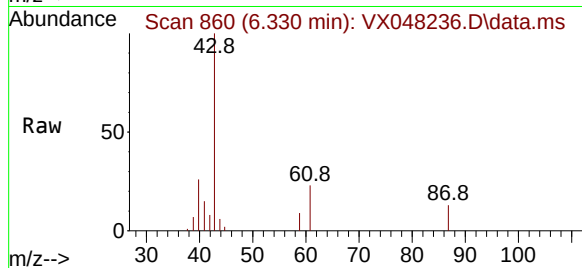
VSTDIC005

Tgt Ion:	43	Resp:	1399
Ion	Ratio	Lower	Upper
43	100		
61	22.5	14.9	22.3
87	14.0	9.4	14.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#44

Trichloroethene

Concen: 5.009 ug/l

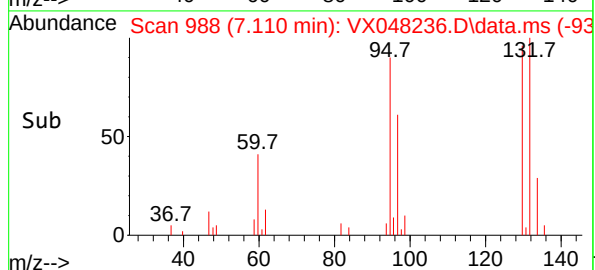
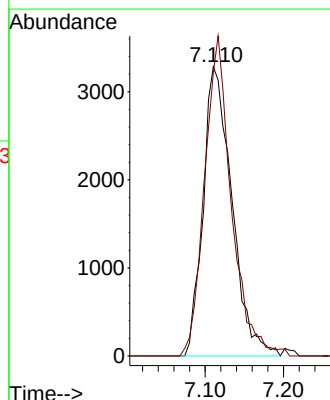
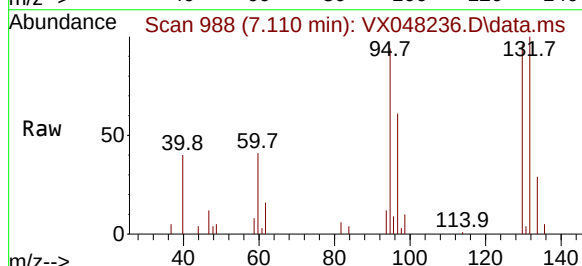
RT: 7.110 min Scan# 988

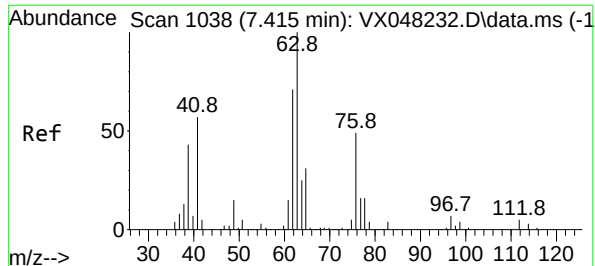
Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Tgt Ion:	130	Resp:	8373
Ion	Ratio	Lower	Upper
130	100		
95	107.6	0.0	200.6





#45

1,2-Dichloropropane

Concen: 5.129 ug/l

RT: 7.415 min Scan# 1038

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 7709

Ion Ratio Lower Upper

63 100

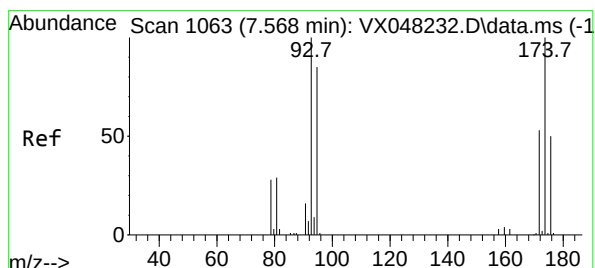
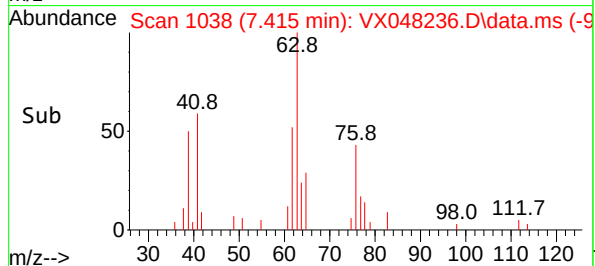
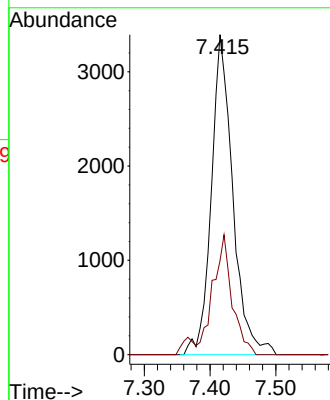
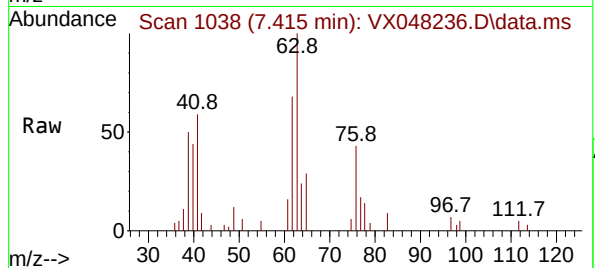
65 29.4 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#46

Dibromomethane

Concen: 5.181 ug/l

RT: 7.568 min Scan# 1063

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

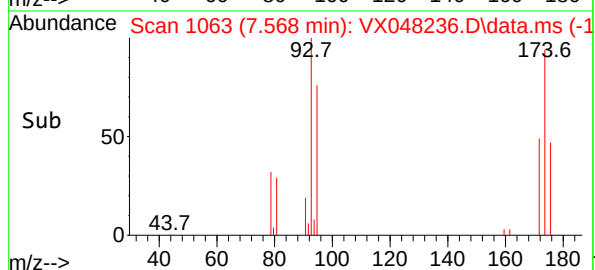
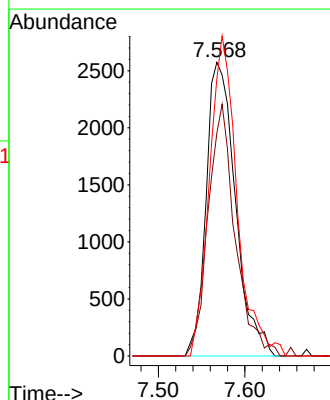
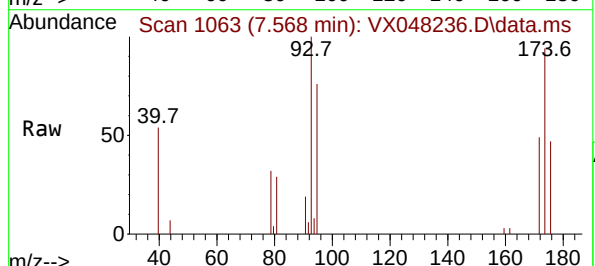
Tgt Ion: 93 Resp: 6041

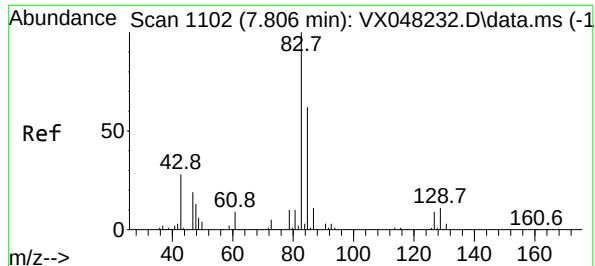
Ion Ratio Lower Upper

93 100

95 79.0 65.9 98.9

174 103.1 71.7 107.5





#47

Bromodichloromethane

Concen: 5.126 ug/l

RT: 7.811 min Scan# 1103

Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

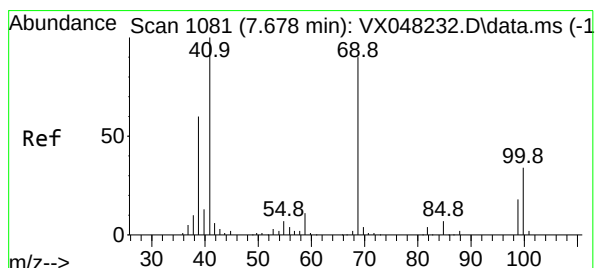
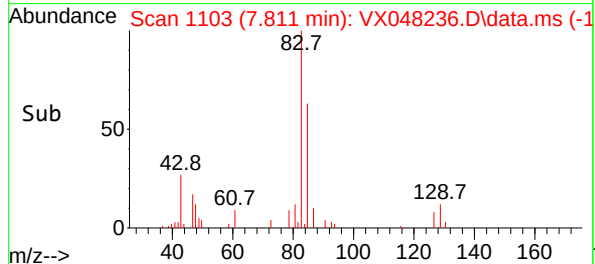
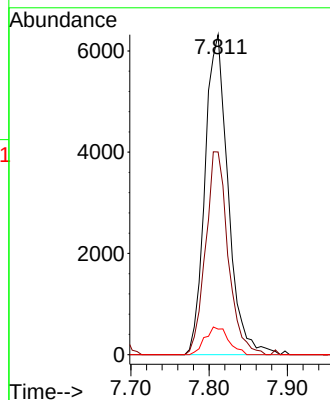
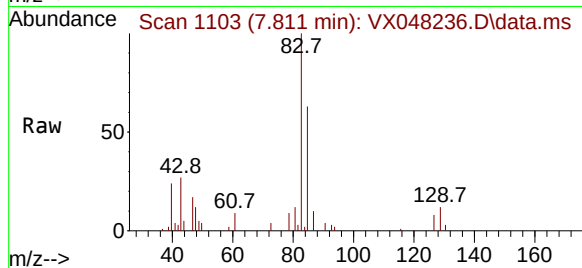
Tgt Ion:	83	Resp:	12974
Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.2	78.4
127	8.0	7.3	10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#48

Methyl methacrylate

Concen: 4.542 ug/l

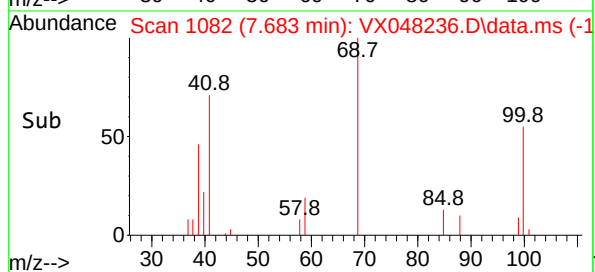
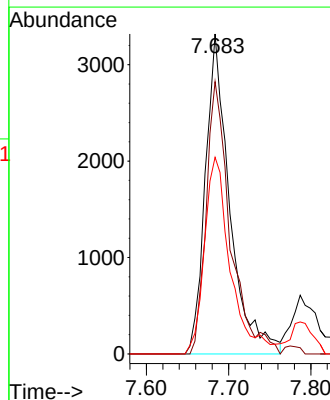
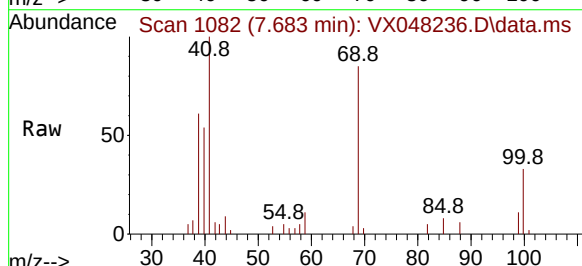
RT: 7.683 min Scan# 1082

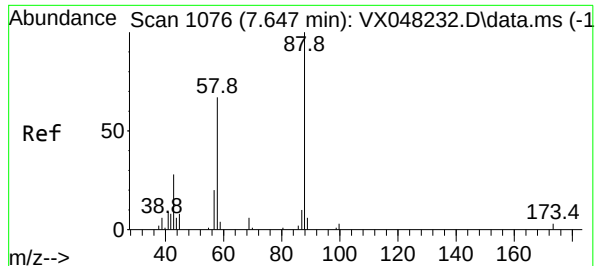
Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Tgt Ion:	41	Resp:	6863
Ion	Ratio	Lower	Upper
41	100		
69	83.7	63.4	95.0
39	64.8	47.1	70.7





#49

1,4-Dioxane

Concen: 103.402 ug/l

RT: 7.659 min Scan# 1076

Delta R.T. 0.018 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

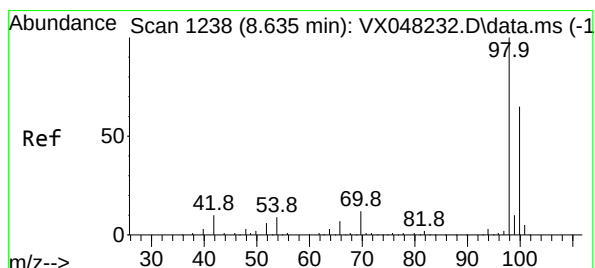
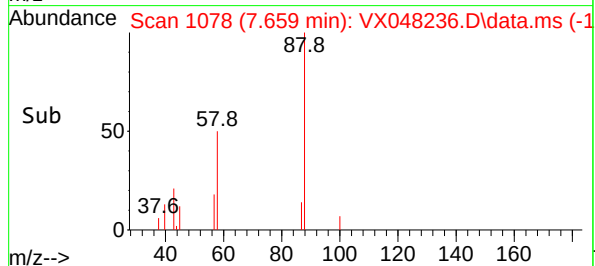
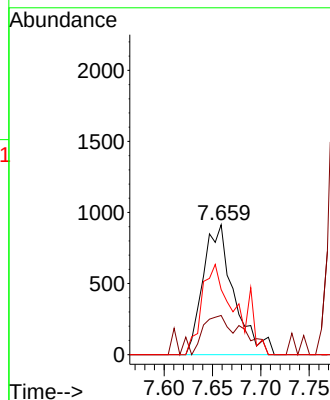
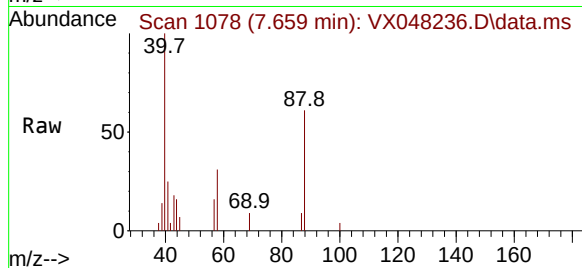
Tgt Ion:	88	Resp:	2020
Ion	Ratio	Lower	Upper
88	100		
43	38.4	35.0	52.4
58	76.8	61.9	92.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#50

Toluene-d8

Concen: 3.999 ug/l

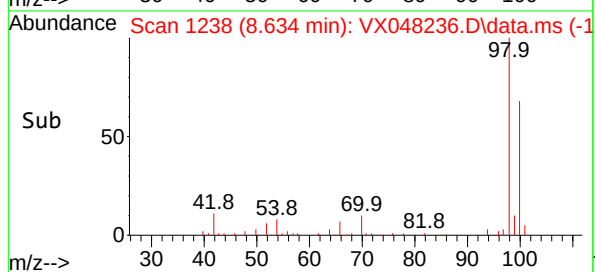
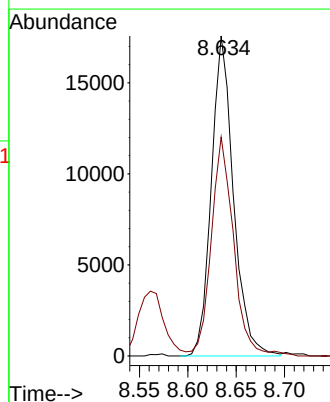
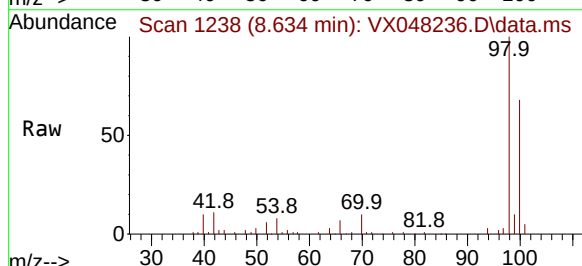
RT: 8.634 min Scan# 1238

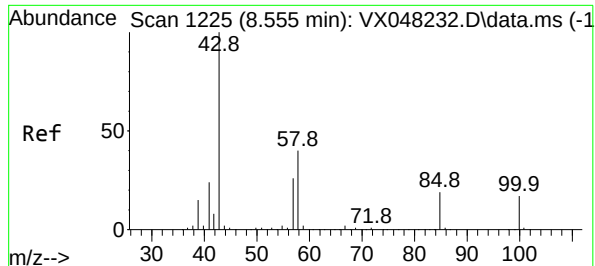
Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Tgt Ion:	98	Resp:	27914
Ion	Ratio	Lower	Upper
98	100		
100	69.2	53.0	79.4





#51

4-Methyl-2-Pentanone

Concen: 24.936 ug/l

RT: 8.555 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 4272

Ion Ratio Lower Upper

43 100

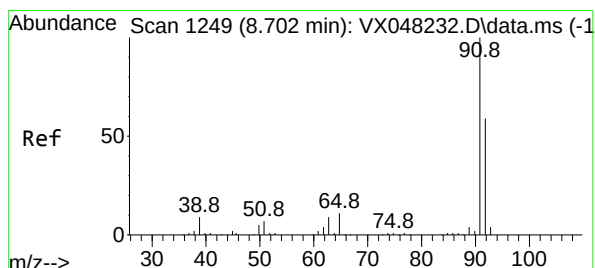
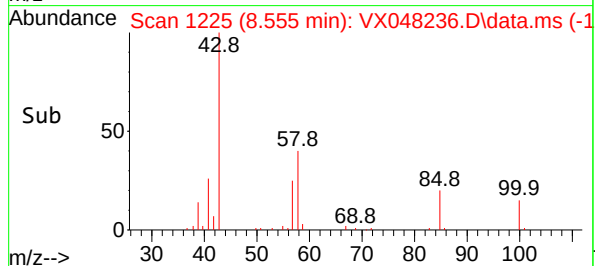
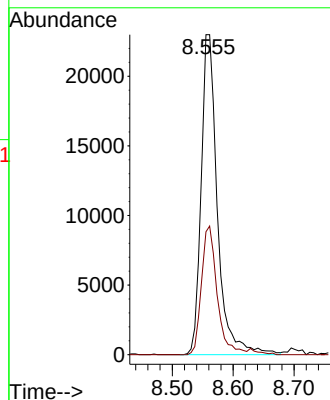
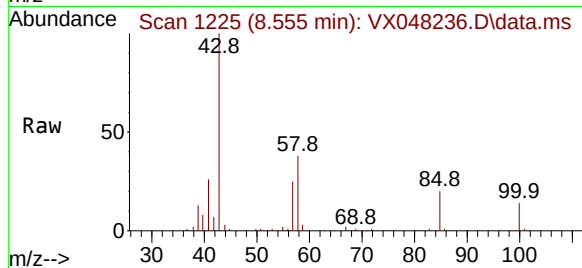
58 38.7 29.5 44.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#52

Toluene

Concen: 5.296 ug/l

RT: 8.708 min Scan# 1250

Delta R.T. 0.006 min

Lab File: VX048236.D

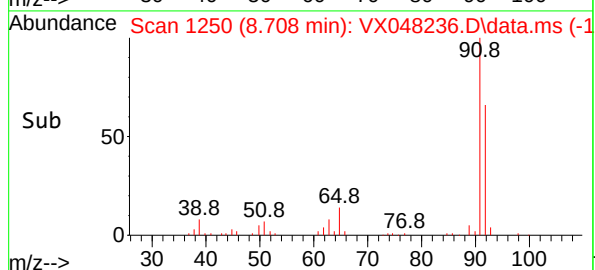
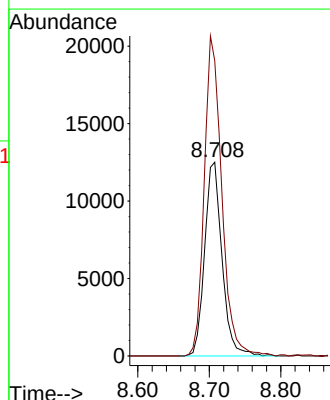
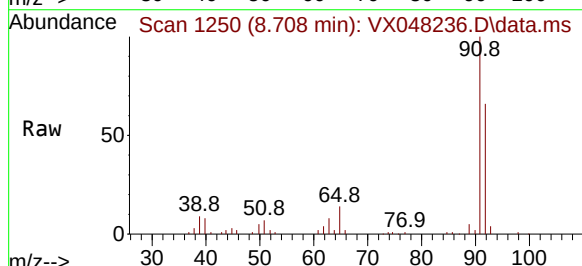
Acq: 20 Oct 2025 13:49

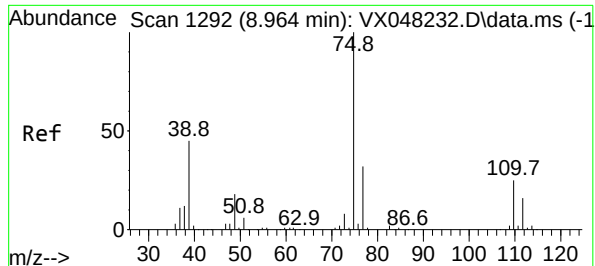
Tgt Ion: 92 Resp: 21137

Ion Ratio Lower Upper

92 100

91 166.2 136.1 204.1





#53

t-1,3-Dichloropropene

Concen: 4.914 ug/l

RT: 8.964 min Scan# 1192

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 1201

Ion Ratio Lower Upper

75 100

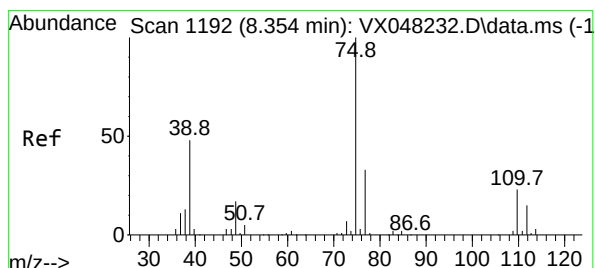
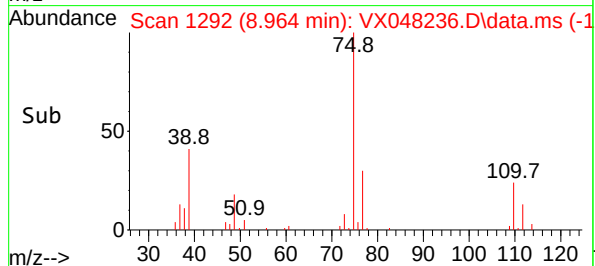
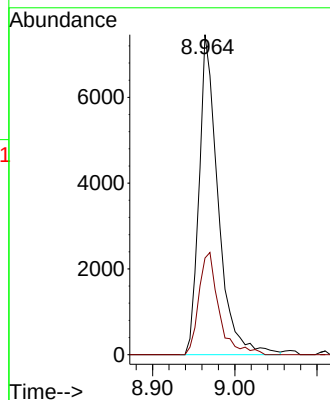
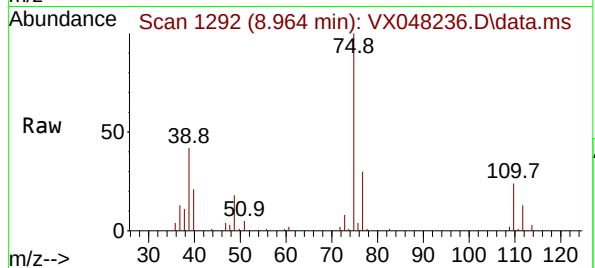
77 30.2 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#54

cis-1,3-Dichloropropene

Concen: 4.820 ug/l

RT: 8.354 min Scan# 1192

Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

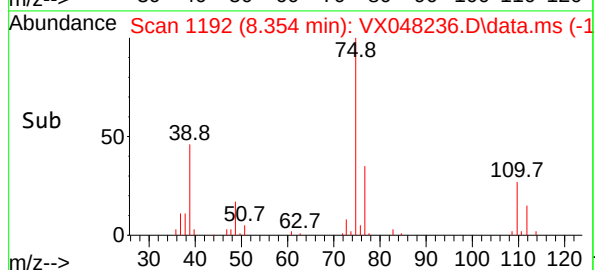
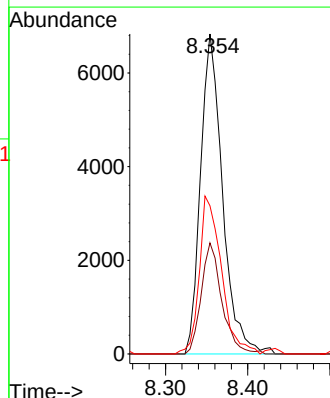
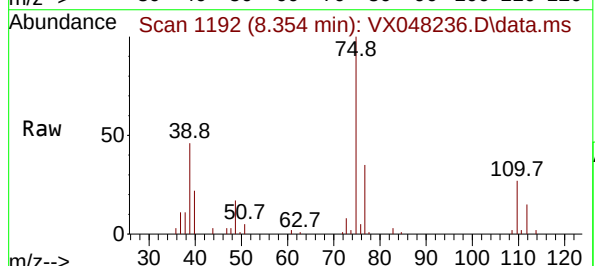
Tgt Ion: 75 Resp: 12702

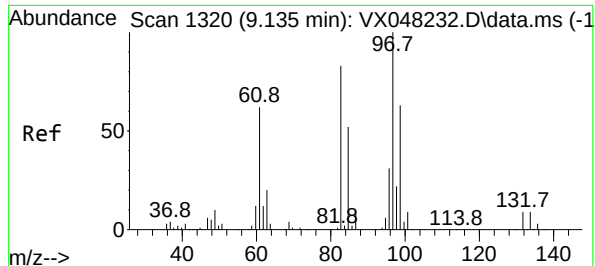
Ion Ratio Lower Upper

75 100

77 35.7 24.9 37.3

39 45.3 42.6 64.0





#55

1,1,2-Trichloroethane

Concen: 5.453 ug/l

RT: 9.140 min Scan# 1320

Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 811

Ion Ratio Lower Upper

97 100

83 77.5 70.6 105.8

85 46.8 45.0 67.6

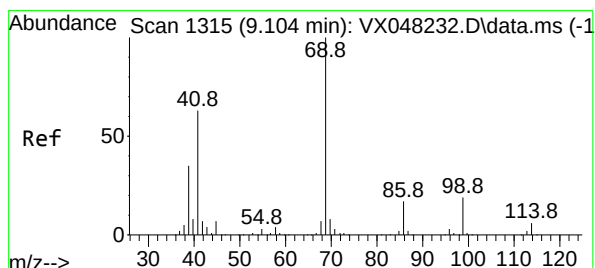
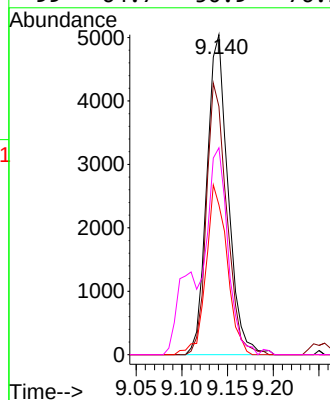
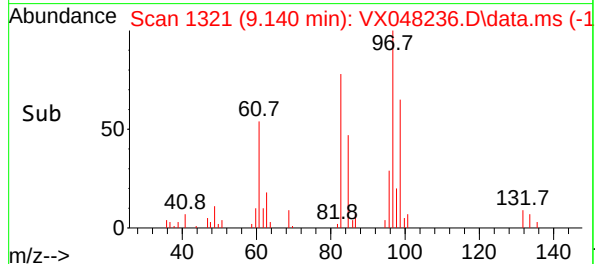
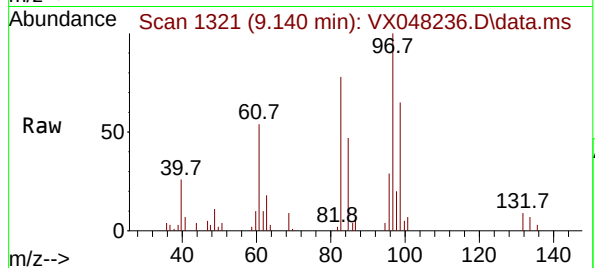
99 64.7 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#56

Ethyl methacrylate

Concen: 4.713 ug/l

RT: 9.104 min Scan# 1315

Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

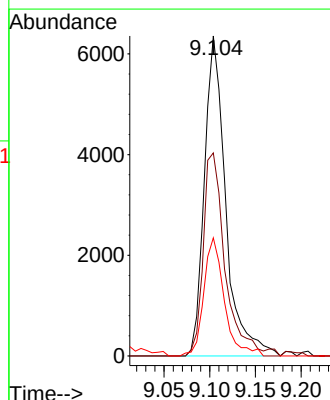
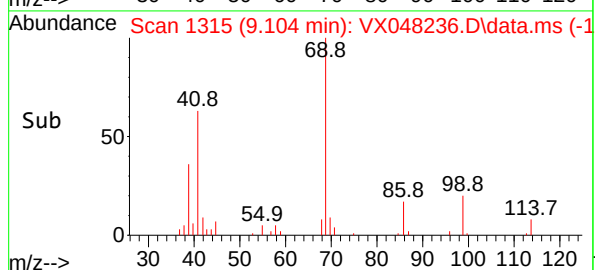
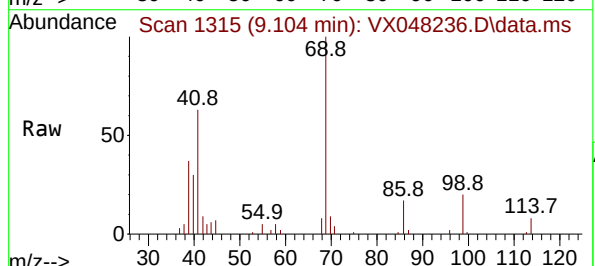
Tgt Ion: 69 Resp: 10320

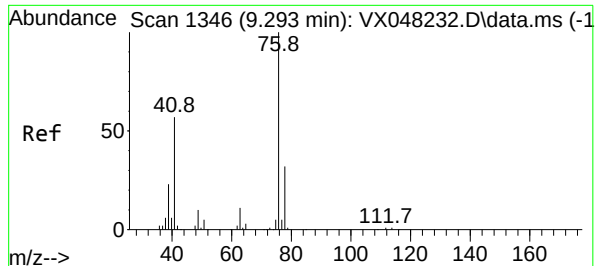
Ion Ratio Lower Upper

69 100

41 65.3 56.0 84.0

39 35.3 31.6 47.4





#57

1,3-Dichloropropane

Concen: 5.112 ug/l

RT: 9.293 min Scan# 111

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 76 Resp: 1308

Ion Ratio Lower Upper

76 100

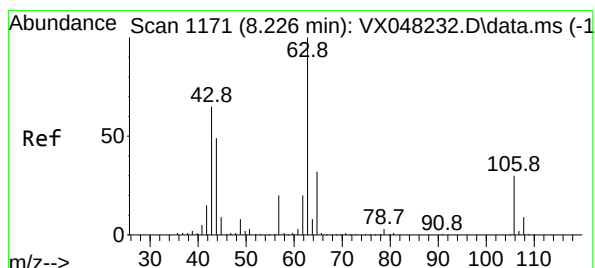
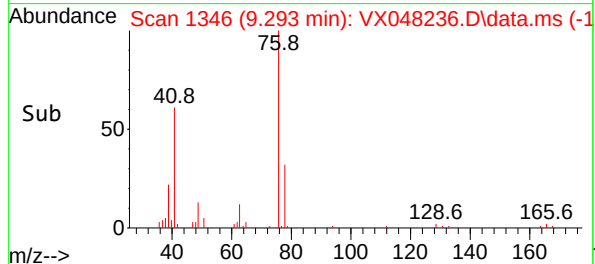
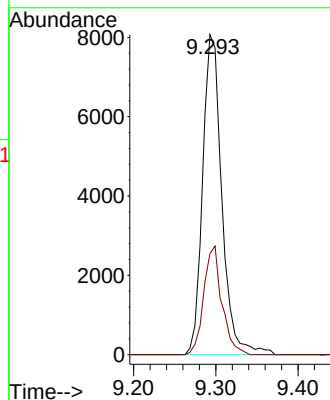
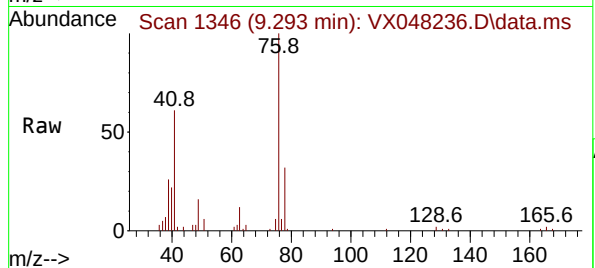
78 32.0 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#58

2-Chloroethyl Vinyl ether

Concen: 19.525 ug/l

RT: 8.232 min Scan# 1172

Delta R.T. 0.006 min

Lab File: VX048236.D

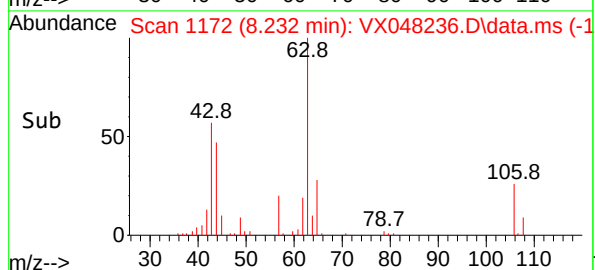
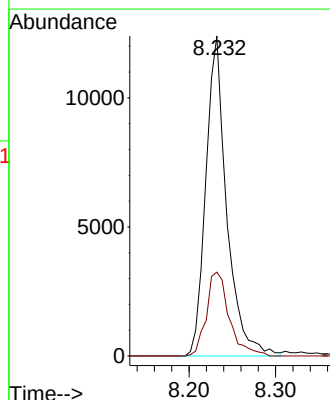
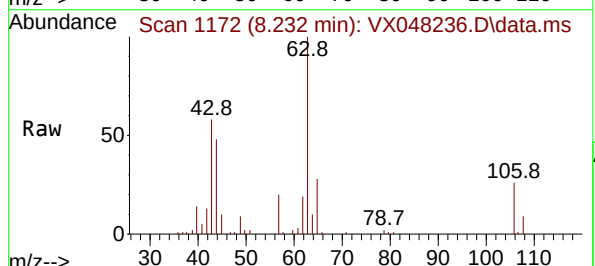
Acq: 20 Oct 2025 13:49

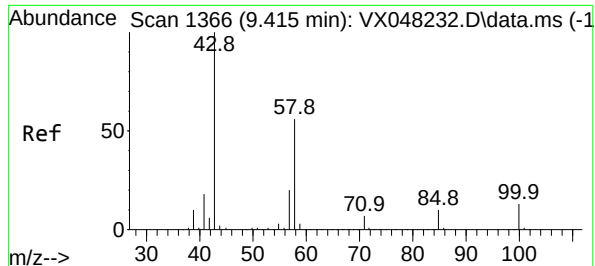
Tgt Ion: 63 Resp: 20764

Ion Ratio Lower Upper

63 100

106 28.6 22.2 33.2





#59

2-Hexanone

Concen: 25.896 ug/l

RT: 9.415 min Scan# 1366

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 30949

Ion Ratio Lower Upper

43 100

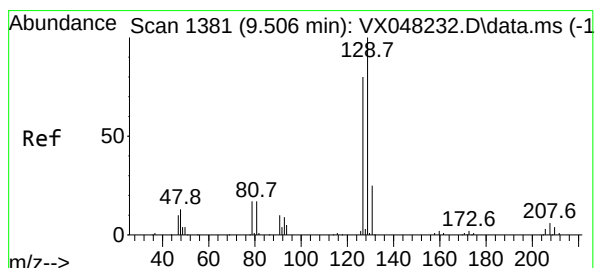
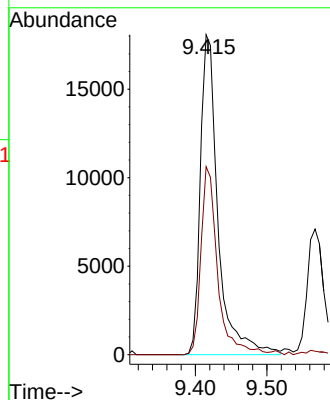
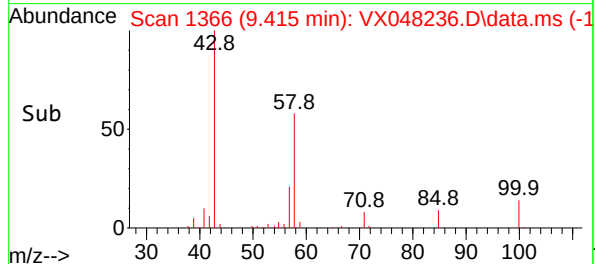
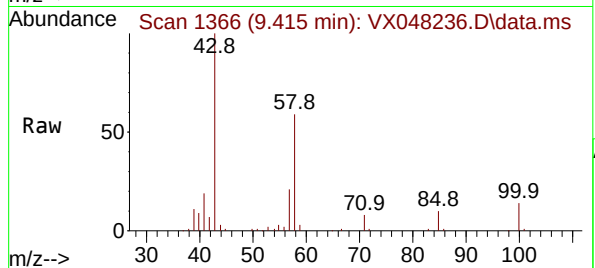
58 55.4 26.3 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#60

Dibromochloromethane

Concen: 5.028 ug/l

RT: 9.506 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VX048236.D

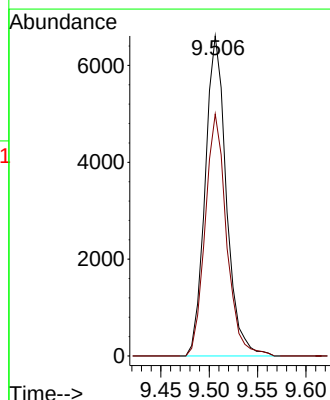
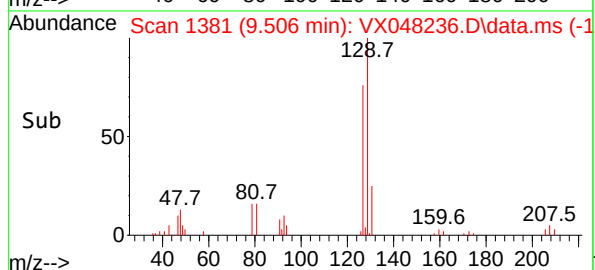
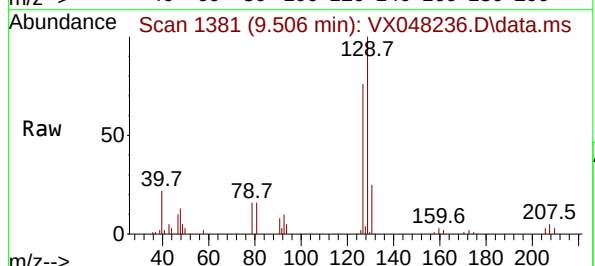
Acq: 20 Oct 2025 13:49

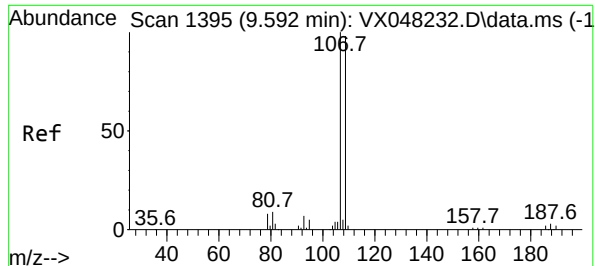
Tgt Ion:129 Resp: 10082

Ion Ratio Lower Upper

129 100

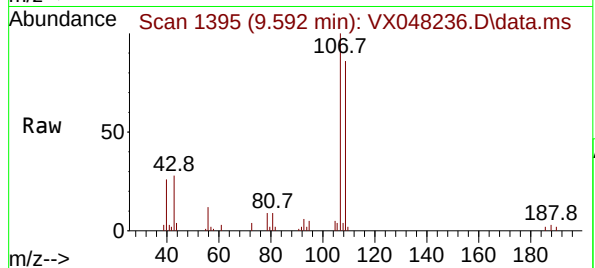
127 76.3 38.6 115.7





#61
1,2-Dibromoethane
Concen: 5.075 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

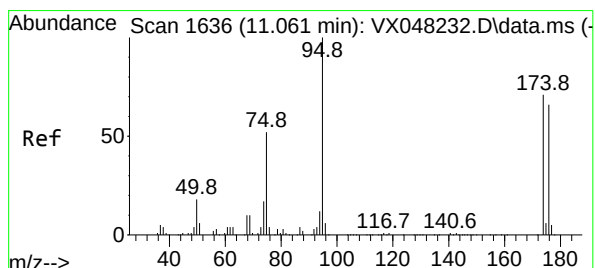
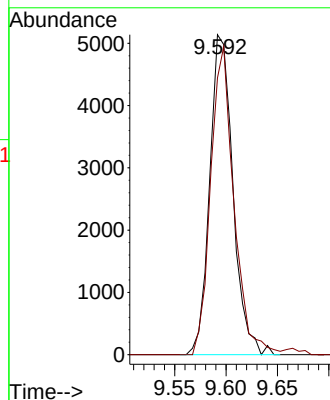
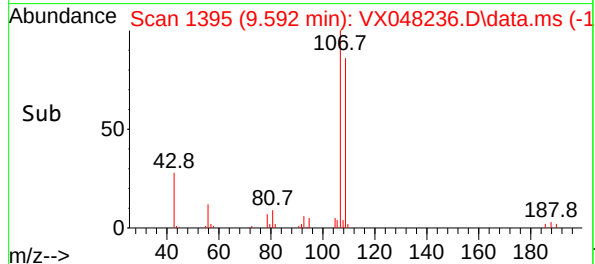
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:107 Resp: 8079
Ion Ratio Lower Upper
107 100
109 96.3 77.0 115.4

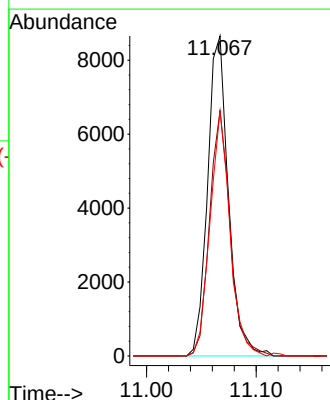
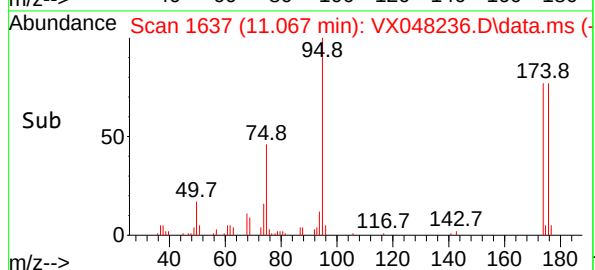
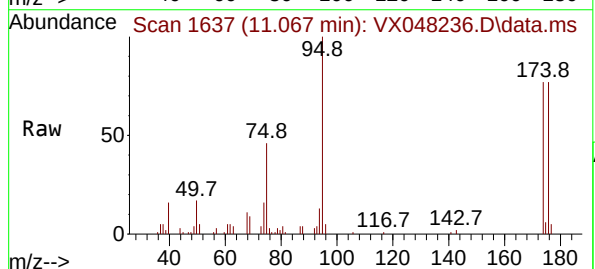
Manual Integrations
APPROVED

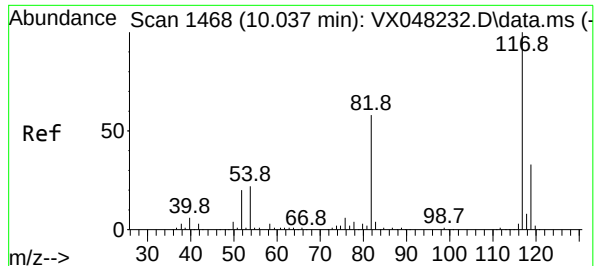
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#62
4-Bromofluorobenzene
Concen: 4.042 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 95 Resp: 11429
Ion Ratio Lower Upper
95 100
174 75.7 0.0 147.8
176 73.4 0.0 142.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:117 Resp: 20848

Ion Ratio Lower Upper

117 100

82 56.9 46.5 69.7

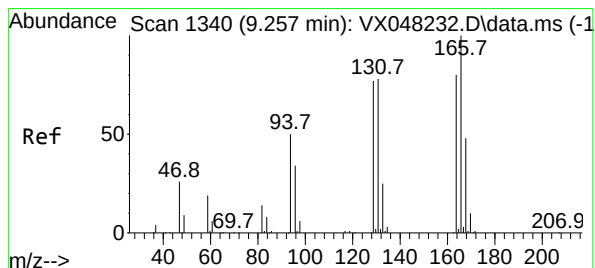
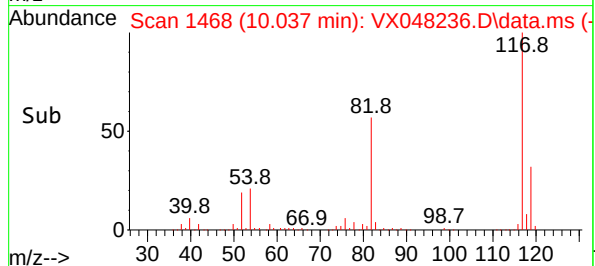
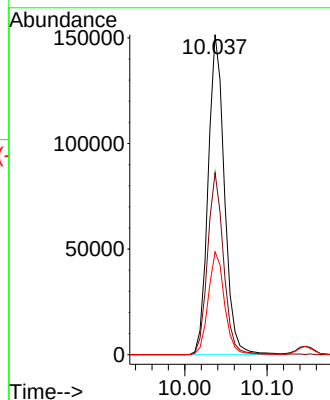
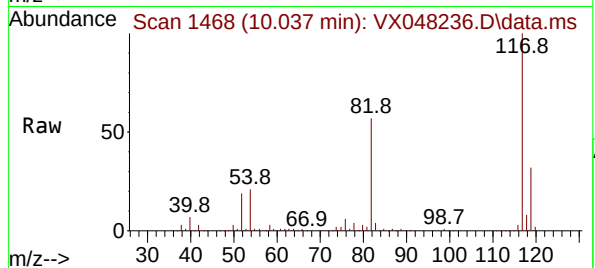
119 32.2 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#64

Tetrachloroethene

Concen: 5.341 ug/l

RT: 9.256 min Scan# 1340

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Tgt Ion:164 Resp: 8020

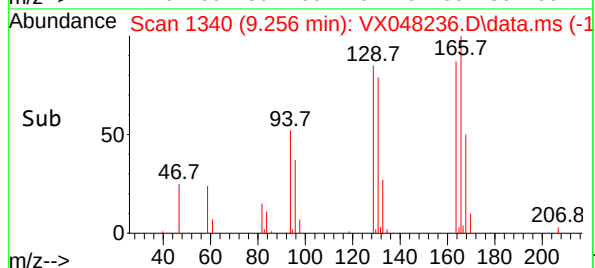
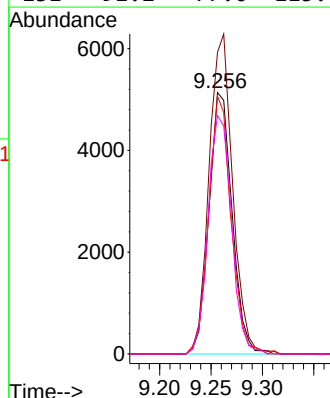
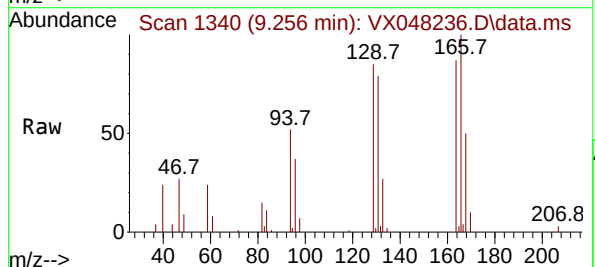
Ion Ratio Lower Upper

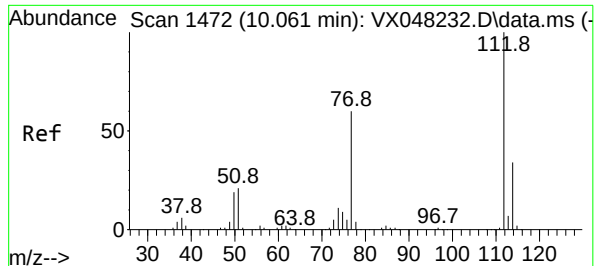
164 100

166 115.3 104.5 156.7

129 98.6 81.8 122.6

131 91.2 77.0 115.6





#65

Chlorobenzene

Concen: 5.236 ug/l

RT: 10.061 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:112 Resp: 2387

Ion Ratio Lower Upper

112 100

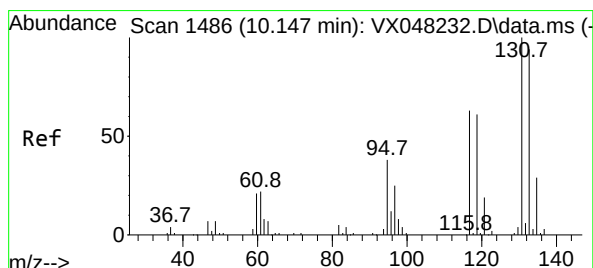
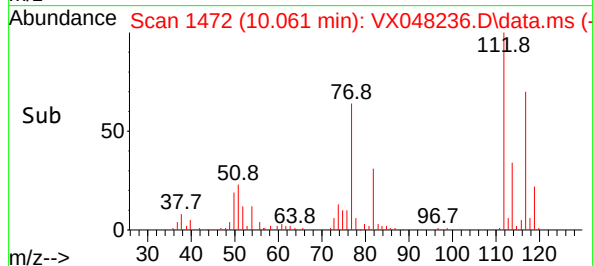
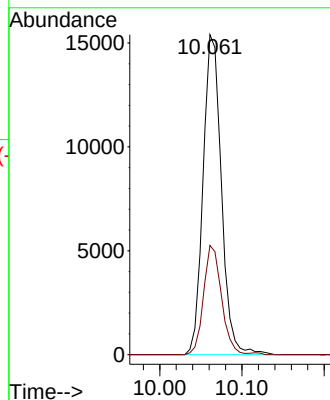
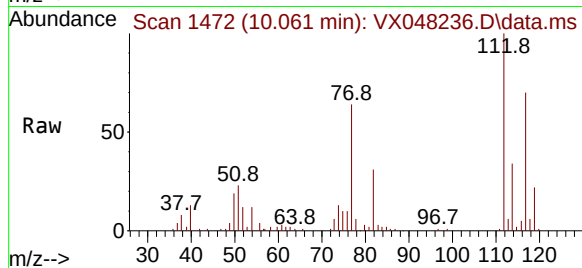
114 34.2 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 5.012 ug/l

RT: 10.146 min Scan# 1486

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

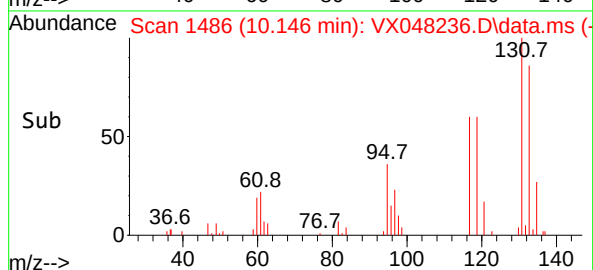
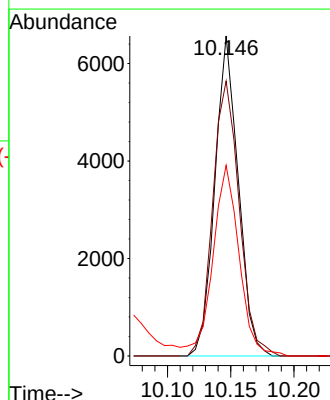
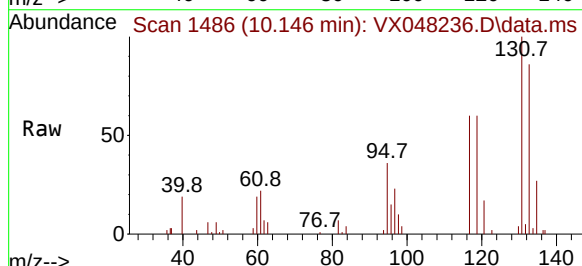
Tgt Ion:131 Resp: 8450

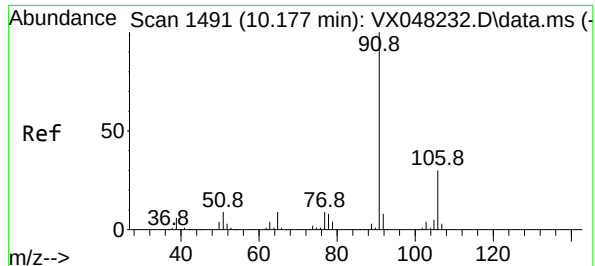
Ion Ratio Lower Upper

131 100

133 97.1 47.6 142.8

119 66.7 32.5 97.5





#67

Ethyl Benzene

Concen: 5.044 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 3912

Ion Ratio Lower Upper

91 100

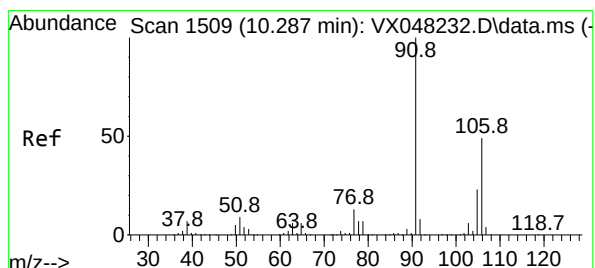
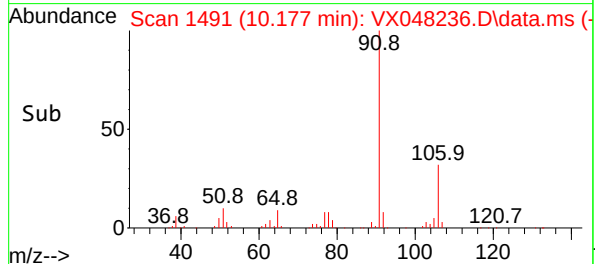
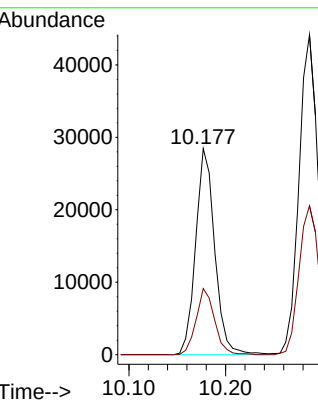
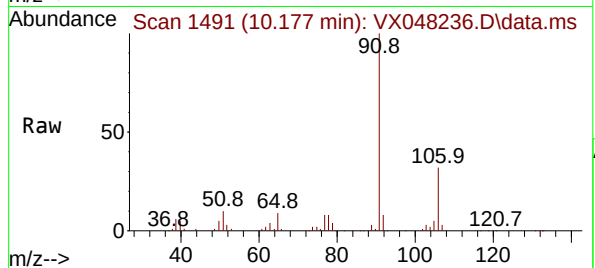
106 32.1 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#68

m/p-Xylenes

Concen: 10.586 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX048236.D

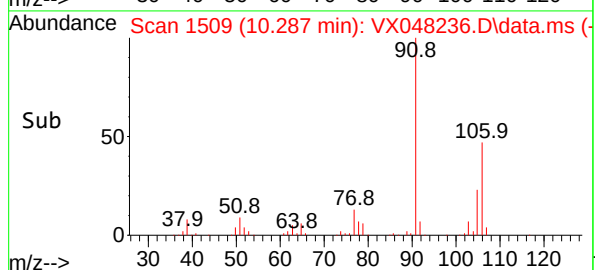
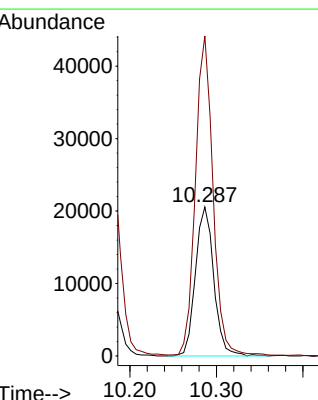
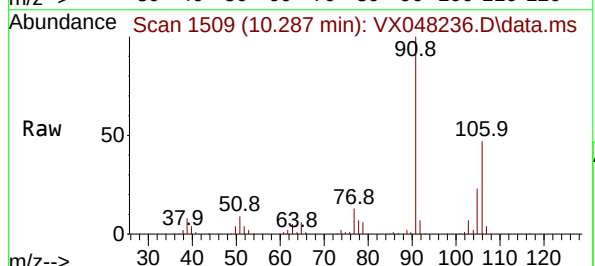
Acq: 20 Oct 2025 13:49

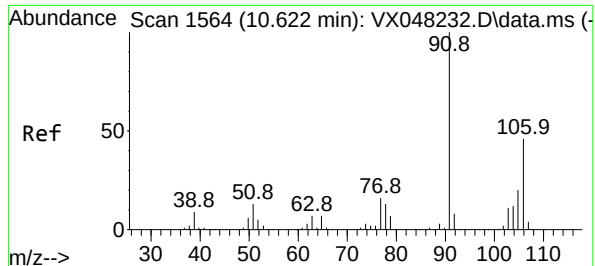
Tgt Ion:106 Resp: 30310

Ion Ratio Lower Upper

106 100

91 205.7 167.9 251.9





#69

o-Xylene

Concen: 5.128 ug/l

RT: 10.628 min Scan# 1564

Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:106 Resp: 1426

Ion Ratio Lower Upper

106 100

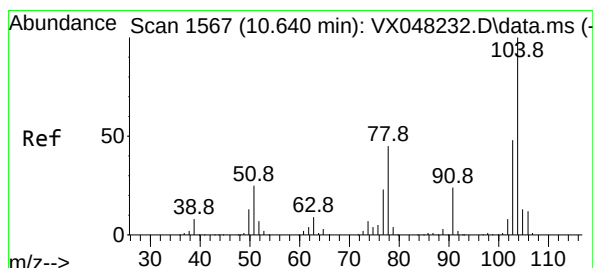
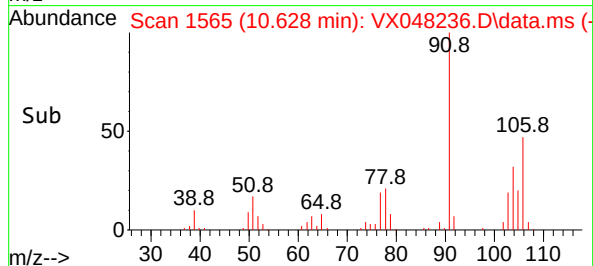
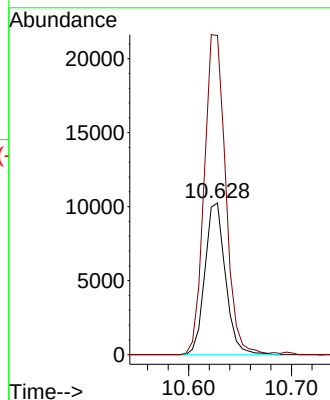
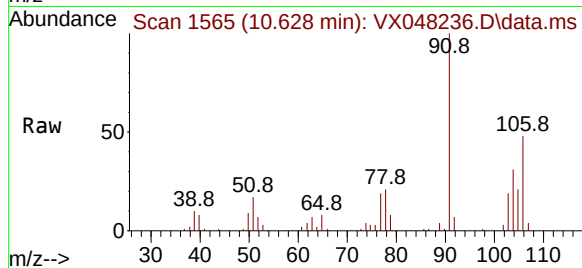
91 219.6 111.3 333.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#70

Styrene

Concen: 5.138 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

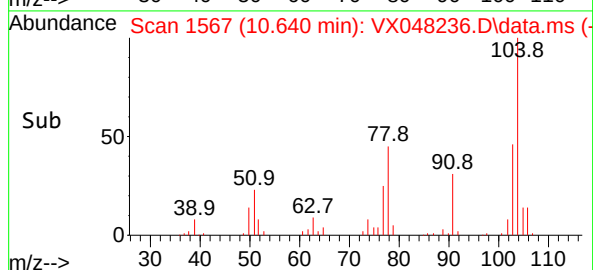
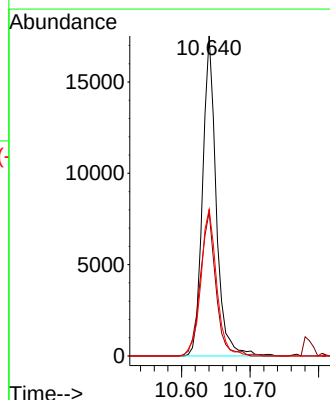
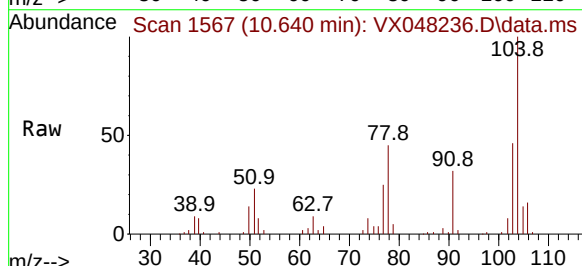
Tgt Ion:104 Resp: 24289

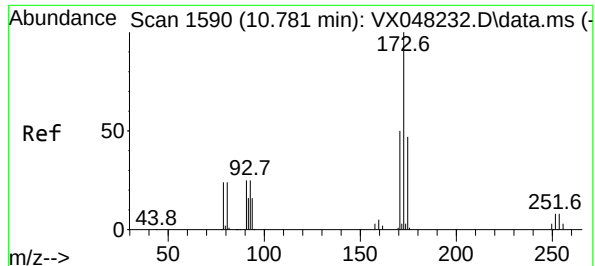
Ion Ratio Lower Upper

104 100

78 51.1 42.2 63.4

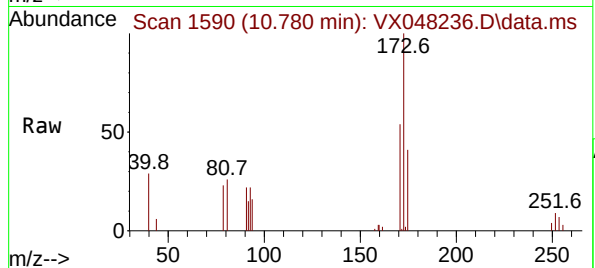
103 53.2 43.0 64.4





#71
Bromoform
Concen: 5.031 ug/l
RT: 10.780 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

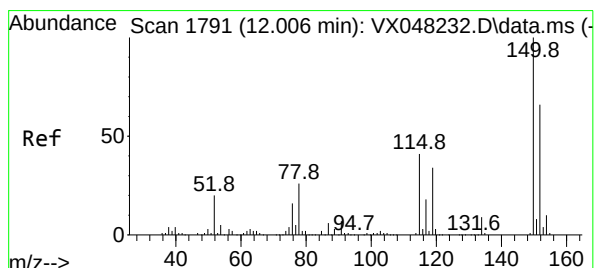
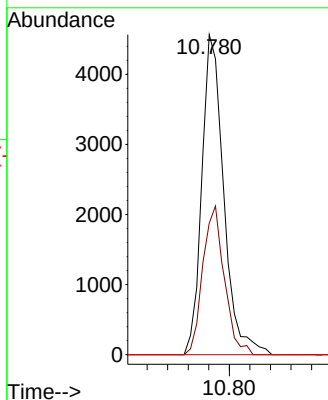
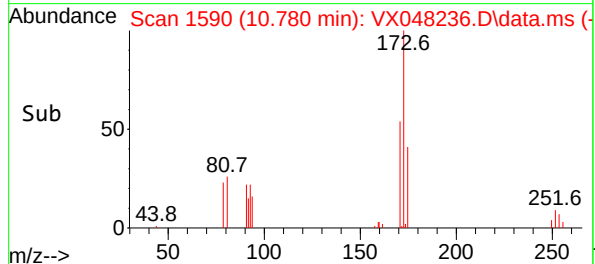
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:173 Resp: 6760
Ion Ratio Lower Upper
173 100
175 45.6 24.0 72.0
254 0.0 0.0 0.0

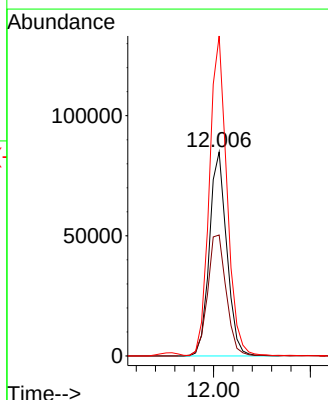
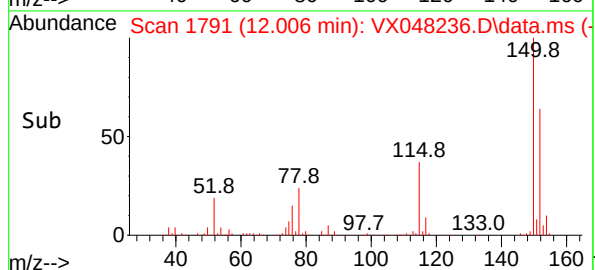
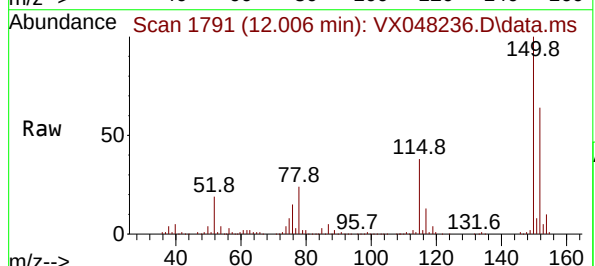
Manual Integrations
APPROVED

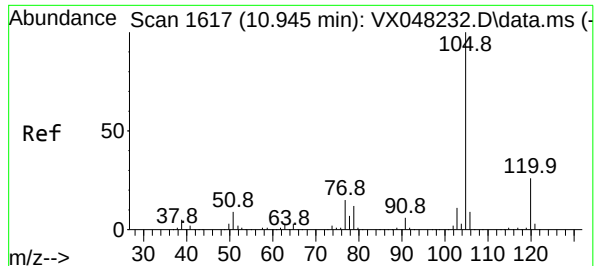
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion:152 Resp: 105998
Ion Ratio Lower Upper
152 100
115 63.9 43.1 129.4
150 157.2 0.0 353.0





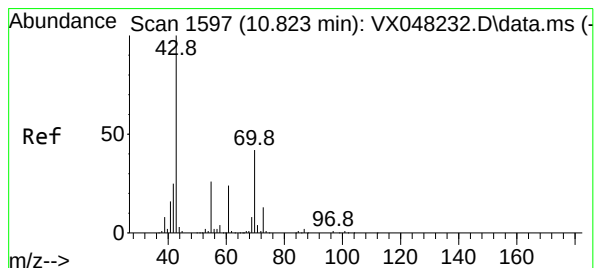
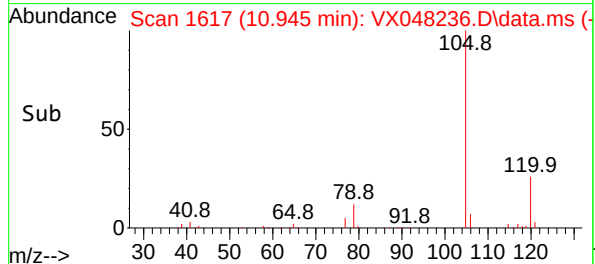
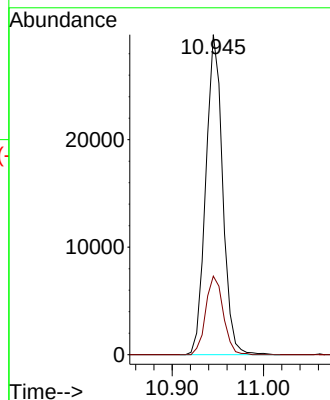
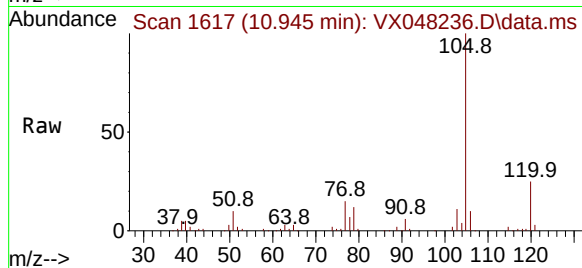
#73
Isopropylbenzene
Concen: 5.082 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:105 Resp: 37935
Ion Ratio Lower Upper
105 100
120 25.6 13.0 38.9

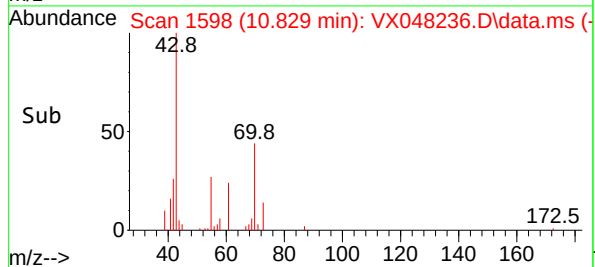
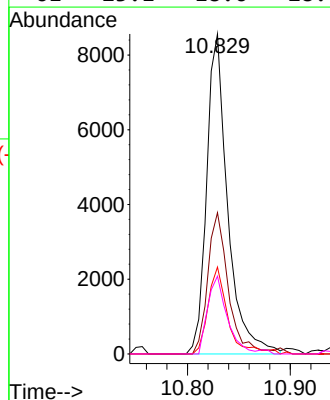
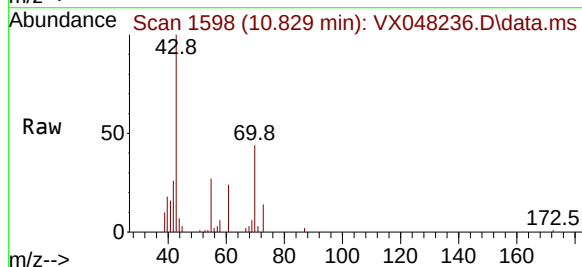
Manual Integrations
APPROVED

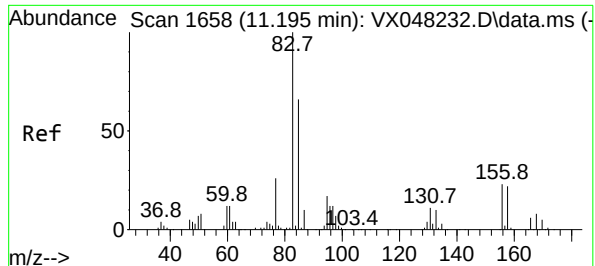
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#74
N-ethyl acetate
Concen: 4.544 ug/l
RT: 10.829 min Scan# 1598
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 43 Resp: 12188
Ion Ratio Lower Upper
43 100
70 43.3 32.2 48.2
55 25.7 19.1 28.7
61 23.1 18.6 28.0





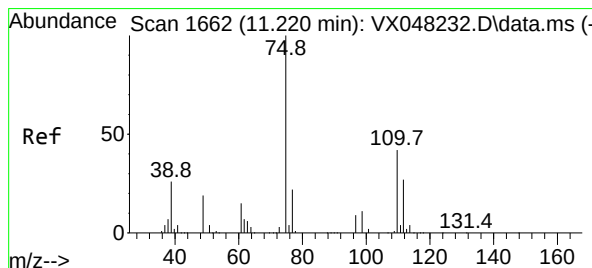
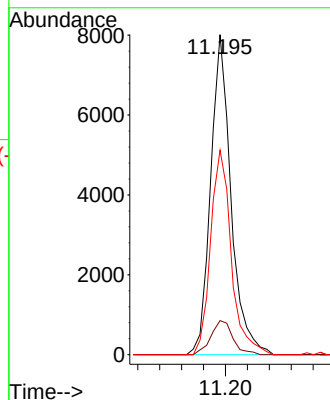
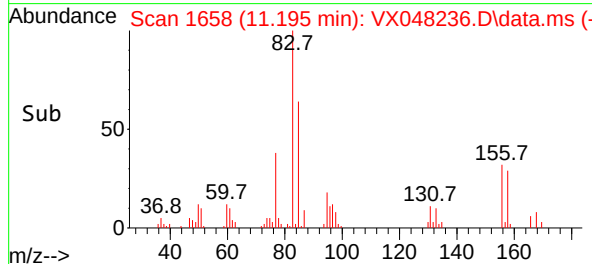
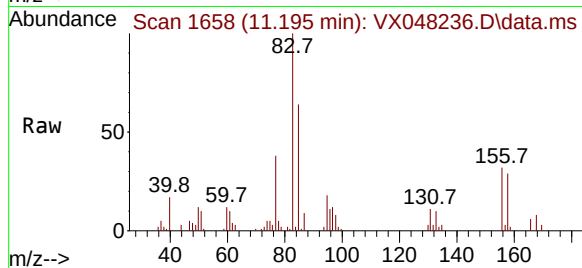
#75
1,1,2,2-Tetrachloroethane
Concen: 4.992 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion: 83 Resp: 10324
Ion Ratio Lower Upper
83 100
131 11.5 4.8 14.4
85 65.0 31.9 95.7

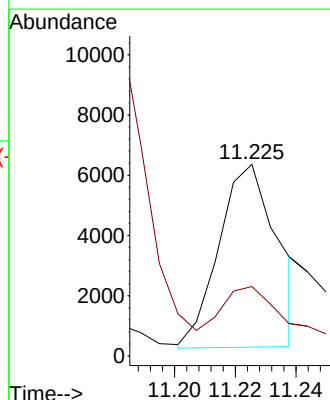
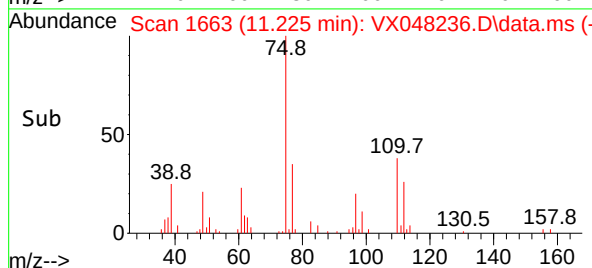
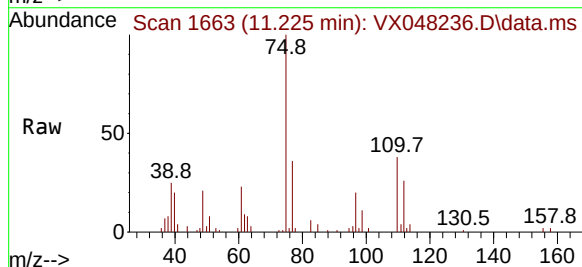
Manual Integrations
APPROVED

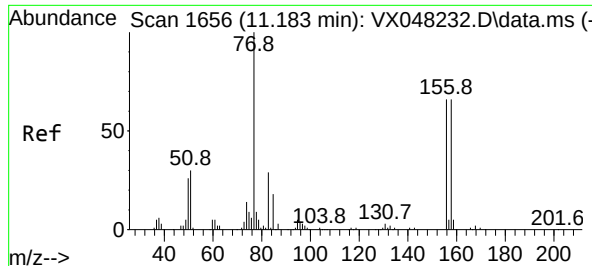
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#76
1,2,3-Trichloropropane
Concen: 4.889 ug/l m
RT: 11.225 min Scan# 1663
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

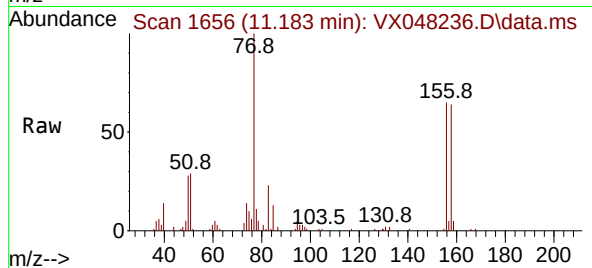
Tgt Ion: 75 Resp: 8134
Ion Ratio Lower Upper
75 100
77 49.3 22.4 67.2





#77
Bromobenzene
Concen: 5.027 ug/l
RT: 11.183 min Scan# 1656
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

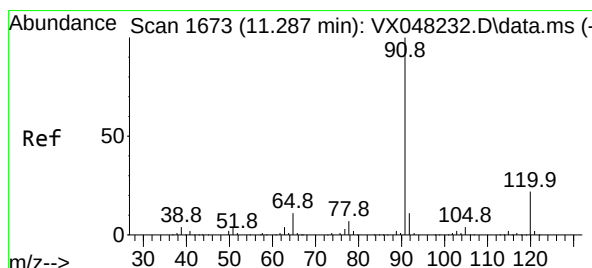
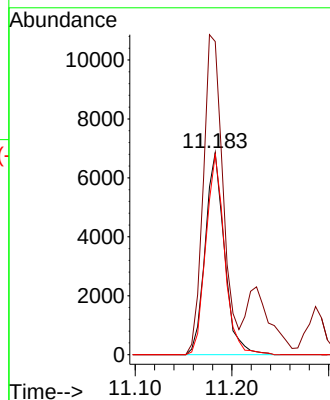
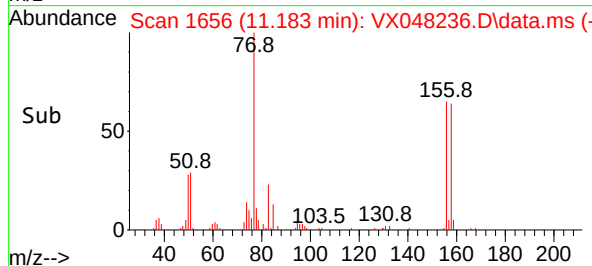
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 156 Resp: 9508
Ion Ratio Lower Upper
156 100
77 162.1 87.0 261.0
158 96.5 47.8 143.4

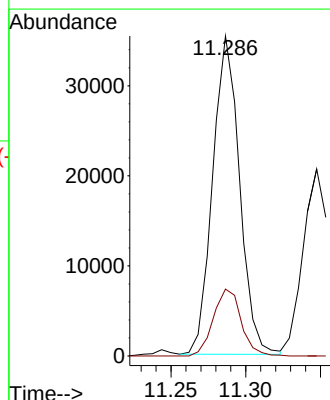
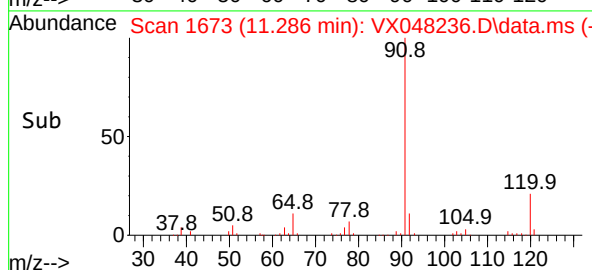
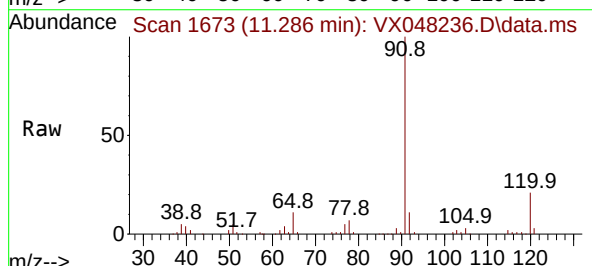
Manual Integrations
APPROVED

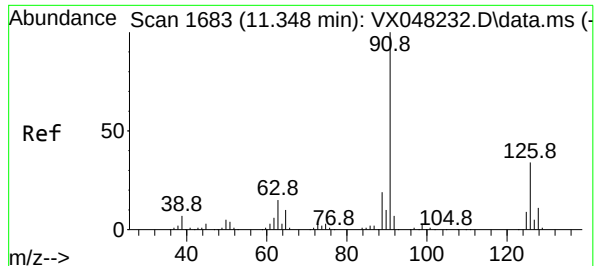
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#78
n-propylbenzene
Concen: 5.097 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 91 Resp: 44189
Ion Ratio Lower Upper
91 100
120 21.7 11.1 33.1





#79

2-Chlorotoluene

Concen: 5.032 ug/l

RT: 11.347 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 2662

Ion Ratio Lower Upper

91 100

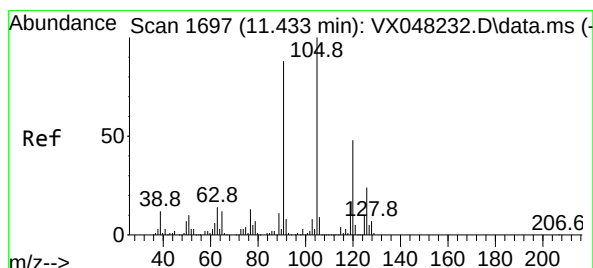
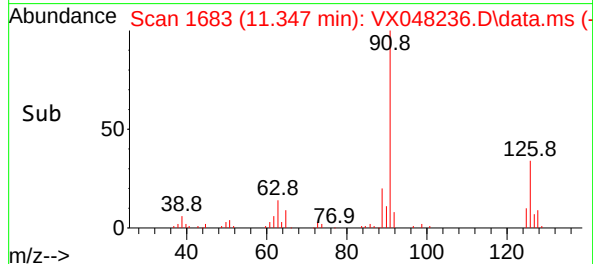
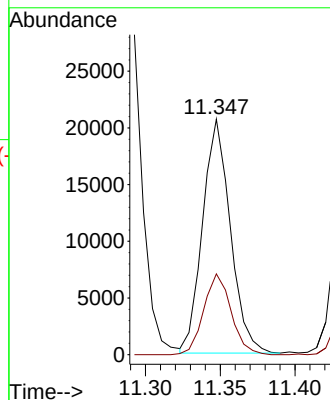
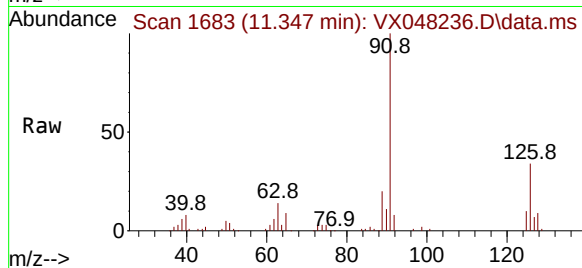
126 34.0 16.4 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#80

1,3,5-Trimethylbenzene

Concen: 4.910 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX048236.D

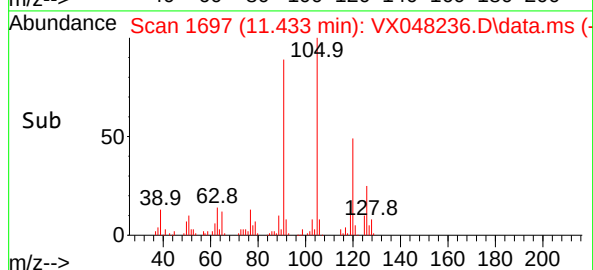
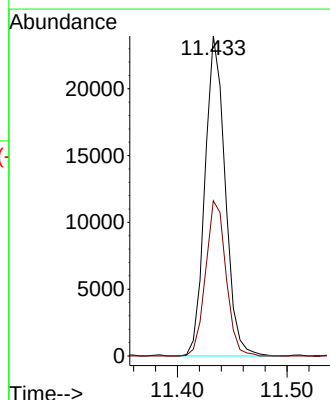
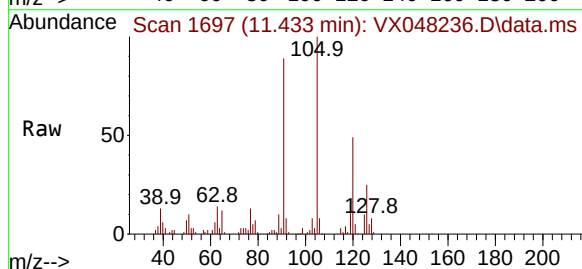
Acq: 20 Oct 2025 13:49

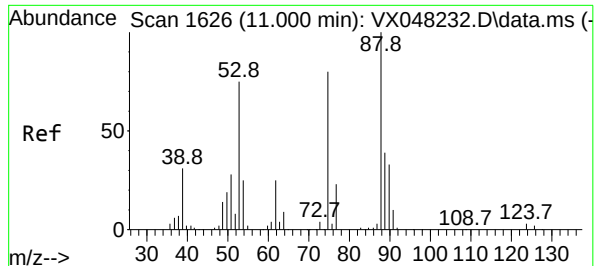
Tgt Ion:105 Resp: 30618

Ion Ratio Lower Upper

105 100

120 48.8 24.0 72.0





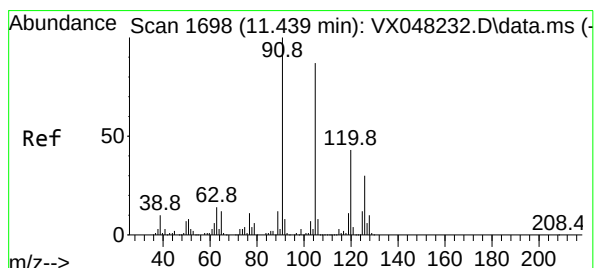
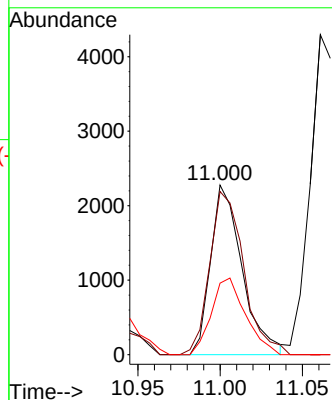
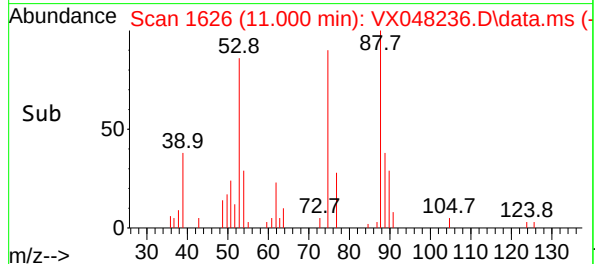
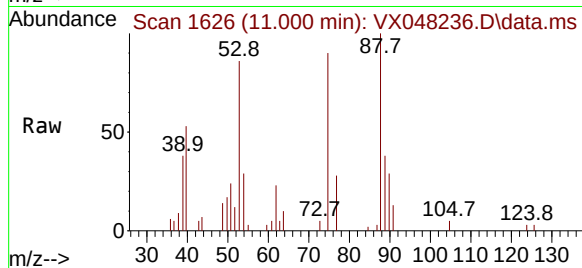
#81
trans-1,4-Dichloro-2-butene
Concen: 4.387 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 3038
Ion Ratio Lower Upper
75 100
53 103.8 79.5 119.3
89 49.0 36.8 55.2

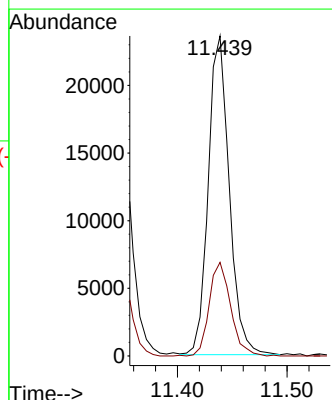
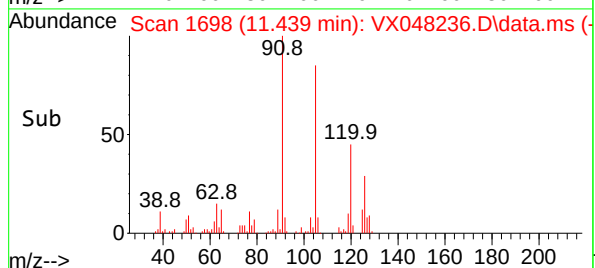
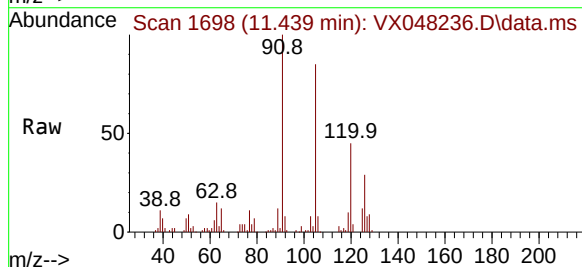
Manual Integrations
APPROVED

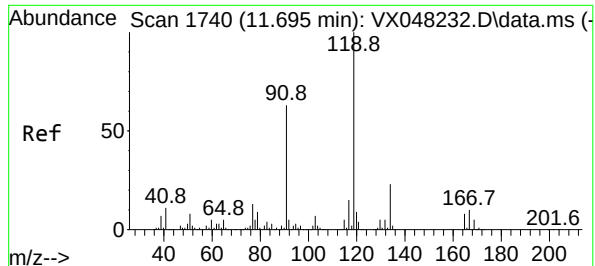
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#82
4-Chlorotoluene
Concen: 5.017 ug/l
RT: 11.439 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 91 Resp: 31357
Ion Ratio Lower Upper
91 100
126 30.1 14.1 42.4





#83

tert-Butylbenzene

Concen: 5.086 ug/l

RT: 11.695 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

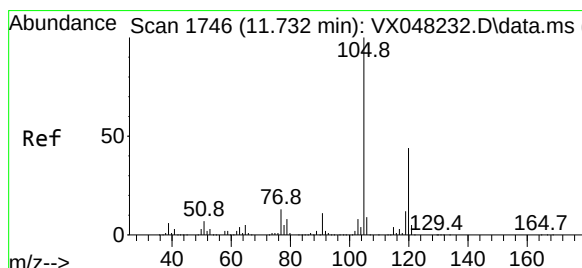
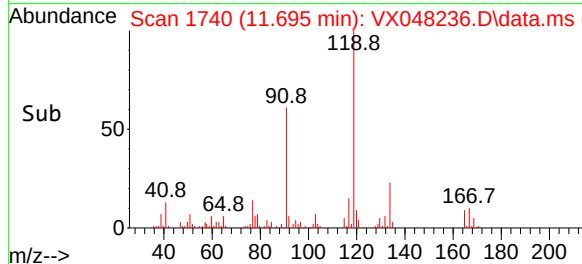
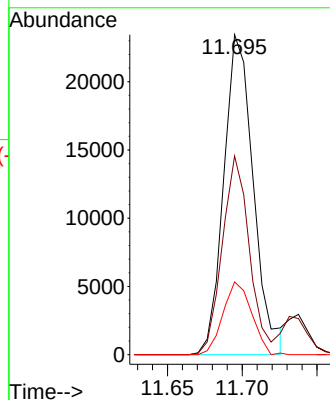
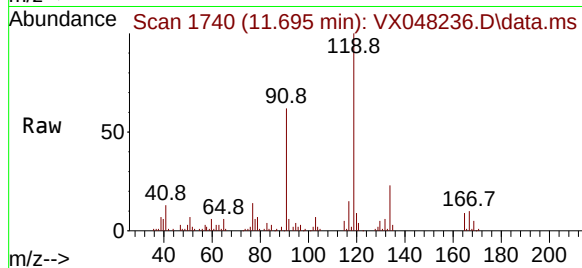
VSTDIC005

Tgt Ion:	119	Resp:	3229
Ion	Ratio	Lower	Upper
119	100		
91	56.8	30.3	91.0
134	22.0	11.4	34.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#84

1,2,4-Trimethylbenzene

Concen: 5.129 ug/l

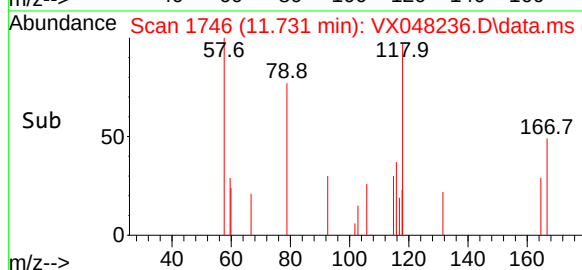
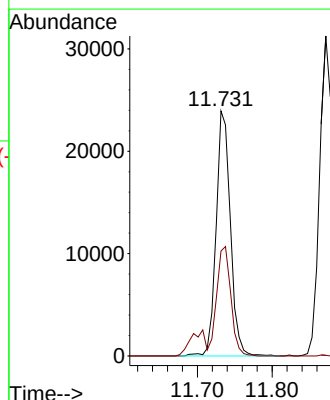
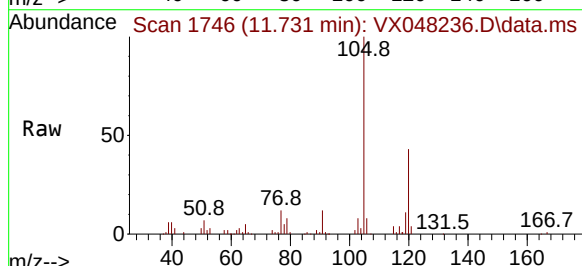
RT: 11.731 min Scan# 1746

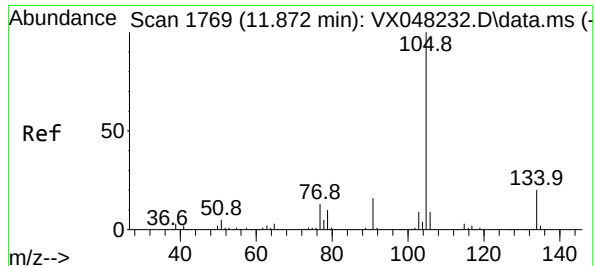
Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Tgt Ion:	105	Resp:	31709
Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.1	66.5





#85

sec-Butylbenzene

Concen: 5.118 ug/l

RT: 11.872 min Scan# 1769

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 3911

Ion Ratio Lower Upper

105 100

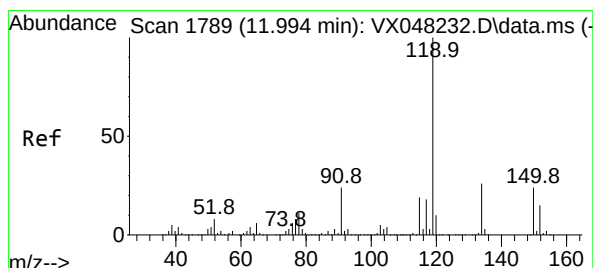
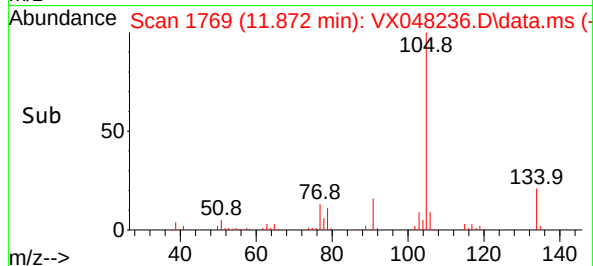
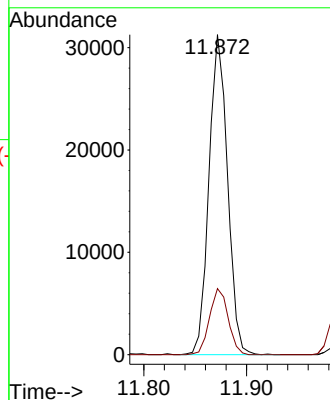
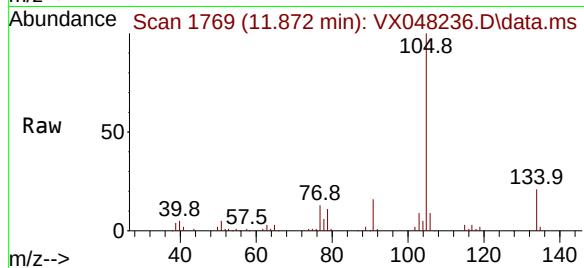
134 20.8 10.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#86

p-Isopropyltoluene

Concen: 5.185 ug/l

RT: 11.994 min Scan# 1789

Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

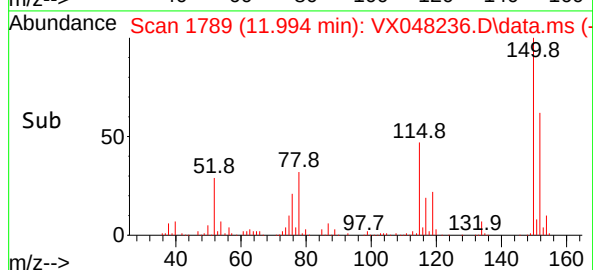
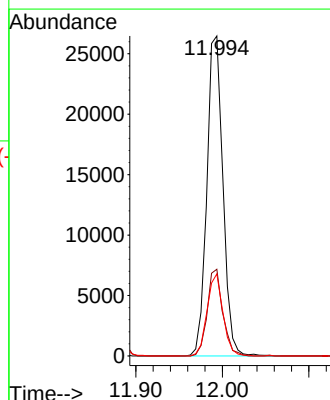
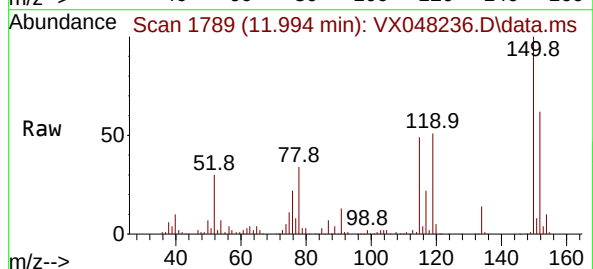
Tgt Ion:119 Resp: 34155

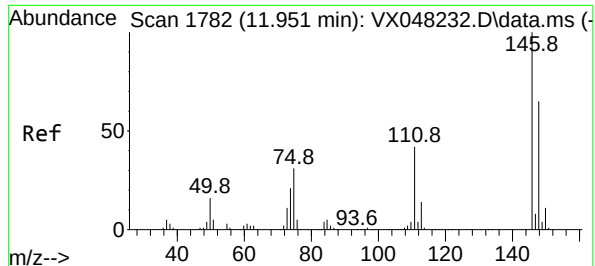
Ion Ratio Lower Upper

119 100

134 26.1 13.0 39.0

91 25.3 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 5.256 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

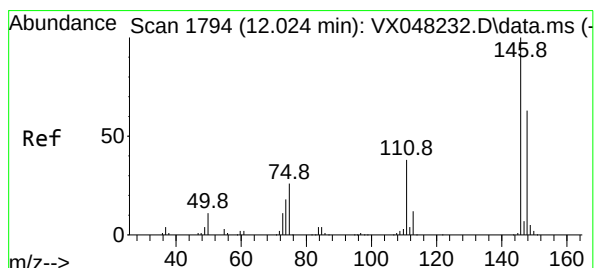
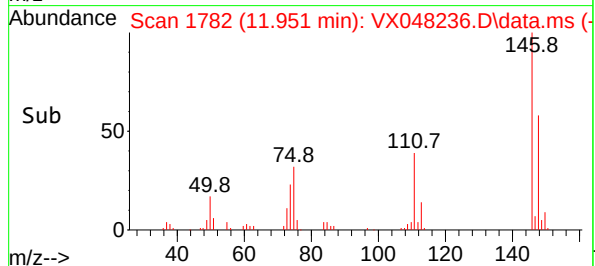
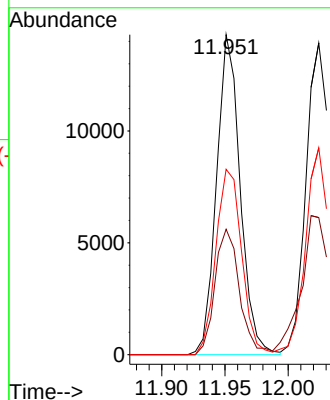
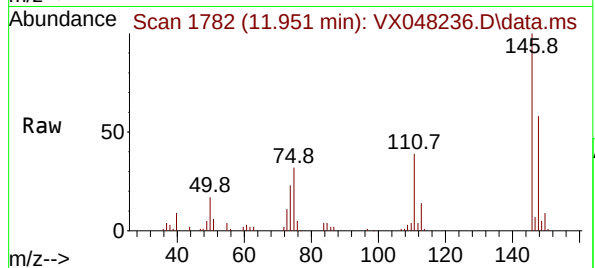
VSTDIC005

Tgt Ion:146 Resp: 18540
Ion Ratio Lower Upper
146 100
111 40.9 20.4 61.2
148 63.1 31.9 95.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#88

1,4-Dichlorobenzene

Concen: 5.081 ug/l

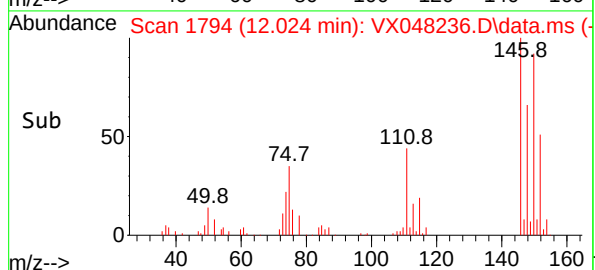
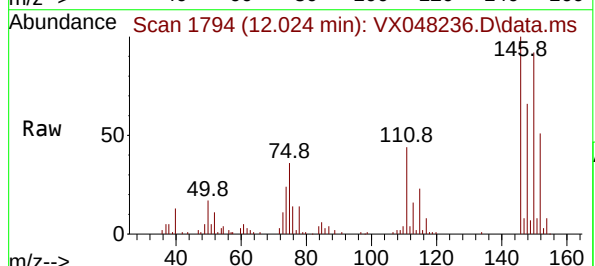
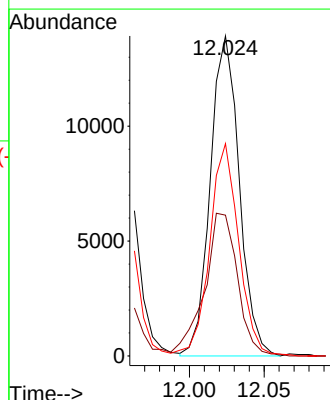
RT: 12.024 min Scan# 1794

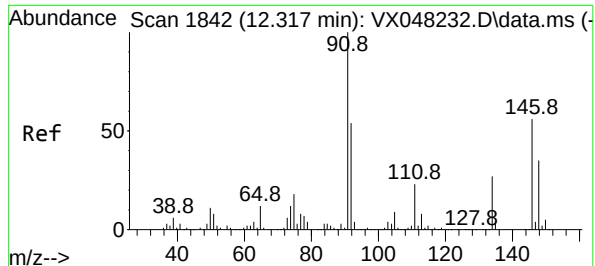
Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Tgt Ion:146 Resp: 18787
Ion Ratio Lower Upper
146 100
111 50.9 20.1 60.2
148 66.5 31.8 95.3





#89

n-Butylbenzene

Concen: 5.069 ug/l

RT: 12.317 min Scan# 1842

Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

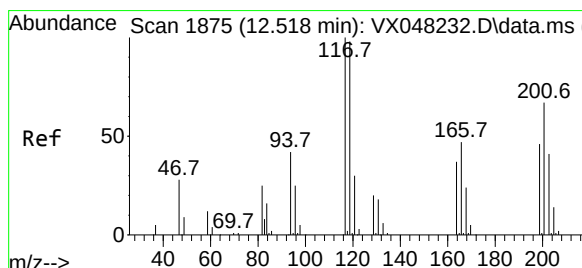
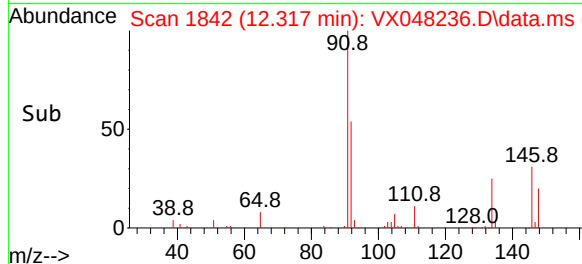
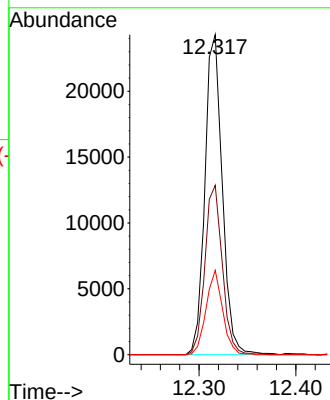
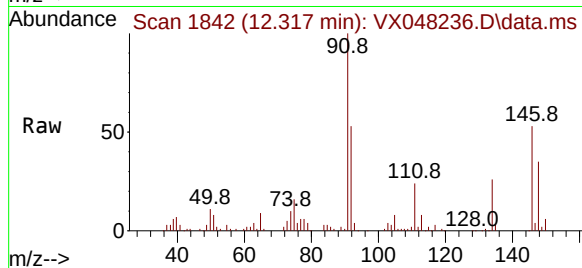
VSTDIC005

Tgt Ion:	91	Resp:	30409
Ion Ratio	Lower	Upper	
91	100		
92	53.1	26.9	80.6
134	25.2	12.7	38.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#90

Hexachloroethane

Concen: 5.210 ug/l

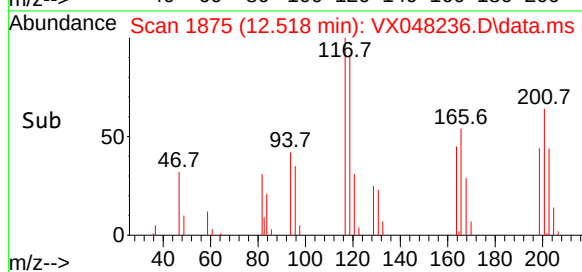
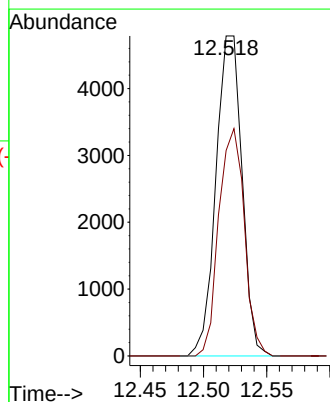
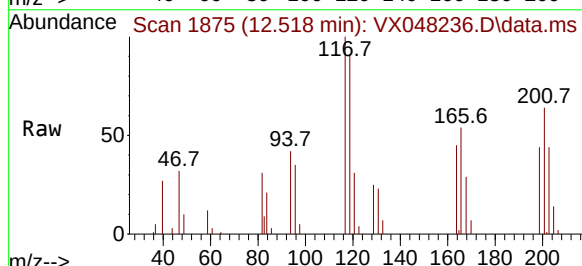
RT: 12.518 min Scan# 1875

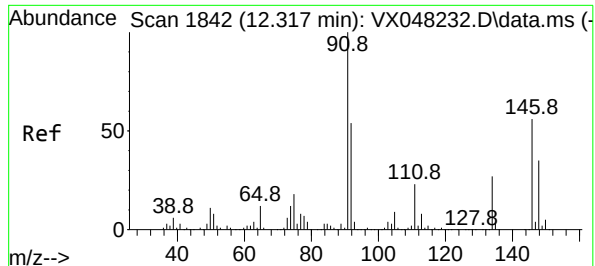
Delta R.T. -0.000 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

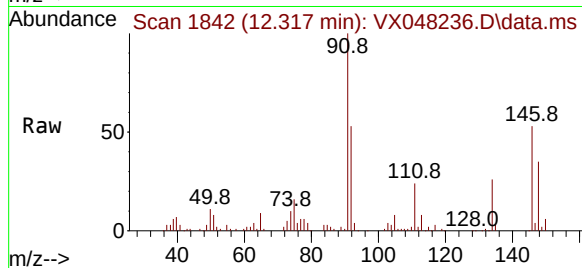
Tgt Ion:	117	Resp:	6863
Ion Ratio	Lower	Upper	
117	100		
201	69.4	34.1	102.2





#91
1,2-Dichlorobenzene
Concen: 5.076 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

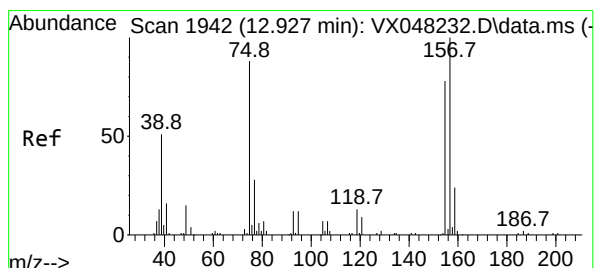
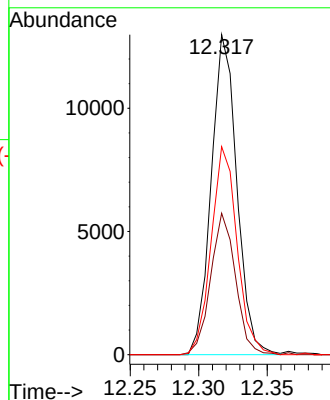
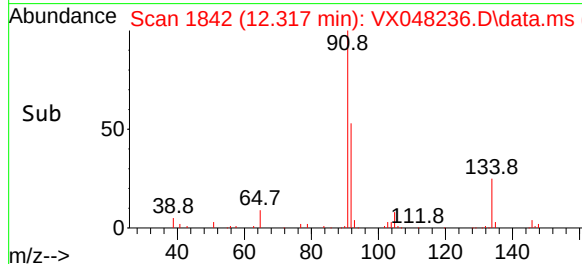
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:146 Resp: 16849
Ion Ratio Lower Upper
146 100
111 43.0 21.9 65.5
148 65.9 31.9 95.5

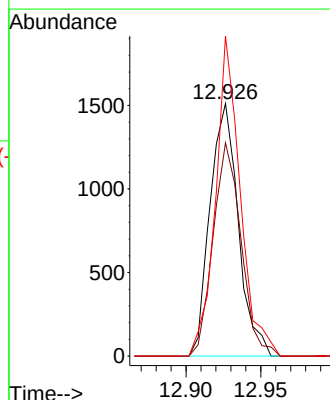
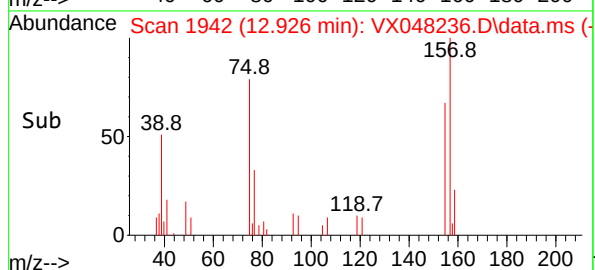
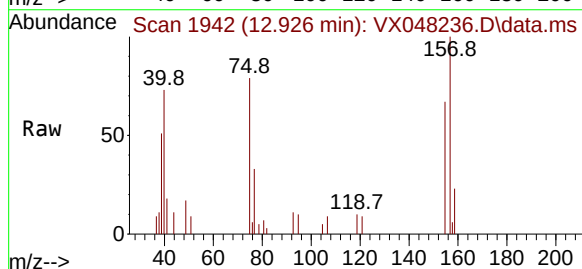
Manual Integrations
APPROVED

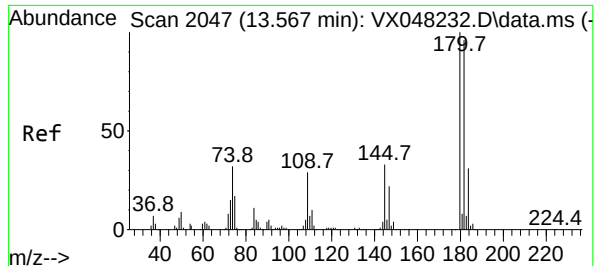
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 4.680 ug/l
RT: 12.926 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

Tgt Ion: 75 Resp: 1984
Ion Ratio Lower Upper
75 100
155 83.2 42.8 128.4
157 110.7 54.2 162.6





#93

1,2,4-Trichlorobenzene

Concen: 4.693 ug/l

RT: 13.573 min Scan# 2047

Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

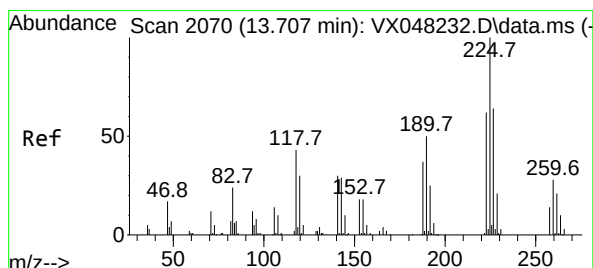
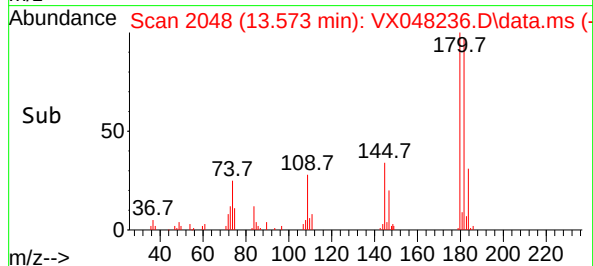
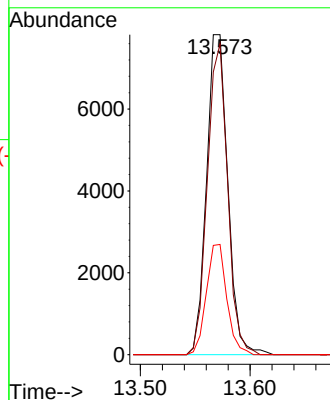
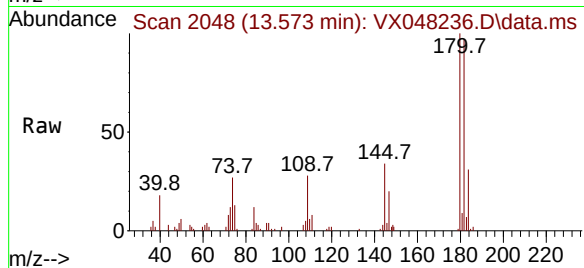
Tgt Ion:180	Resp:	1053
Ion Ratio	Lower	Upper
180	100	
182	92.5	47.3 142.0
145	33.2	16.3 48.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#94

Hexachlorobutadiene

Concen: 4.948 ug/l

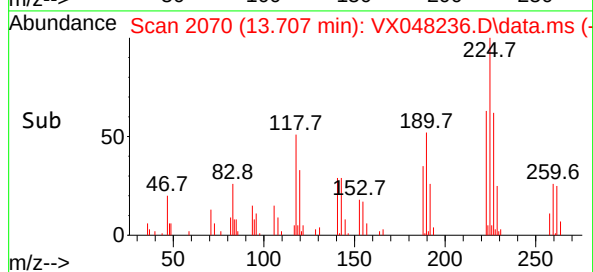
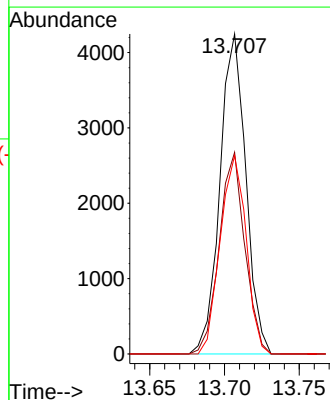
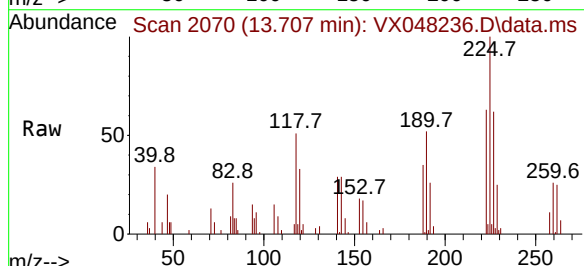
RT: 13.707 min Scan# 2070

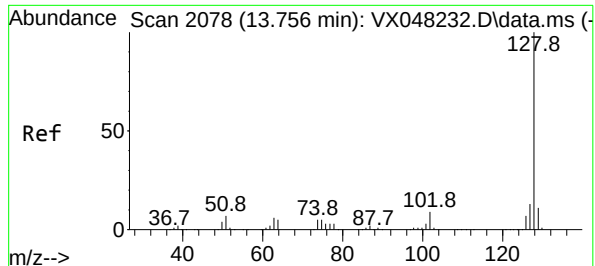
Delta R.T. 0.006 min

Lab File: VX048236.D

Acq: 20 Oct 2025 13:49

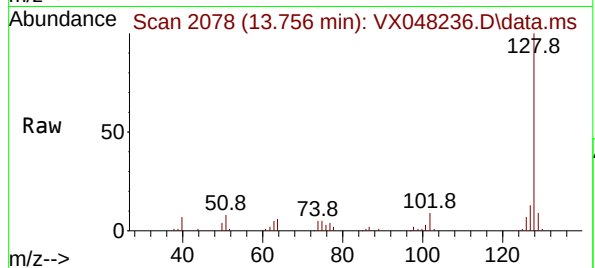
Tgt Ion:225	Resp:	5113
Ion Ratio	Lower	Upper
225	100	
223	62.3	32.6 97.7
227	62.0	32.5 97.4





#95
Naphthalene
Concen: 4.374 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49

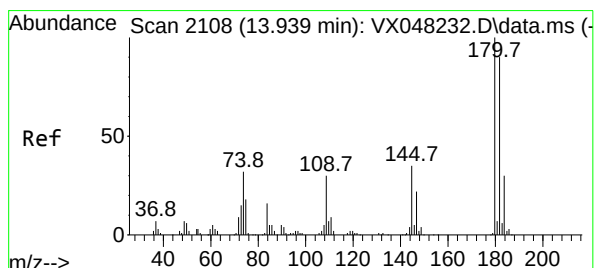
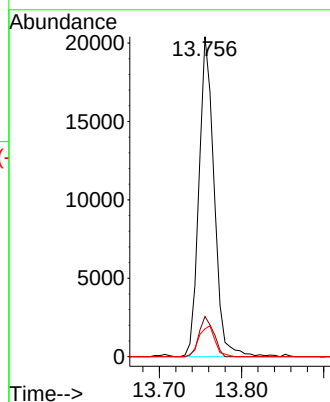
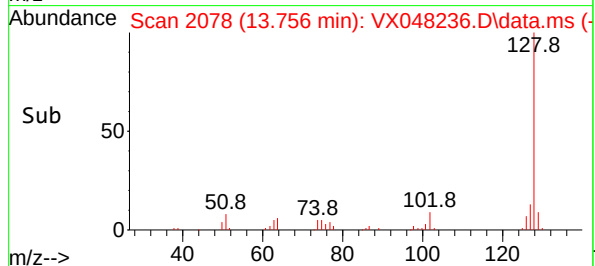
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



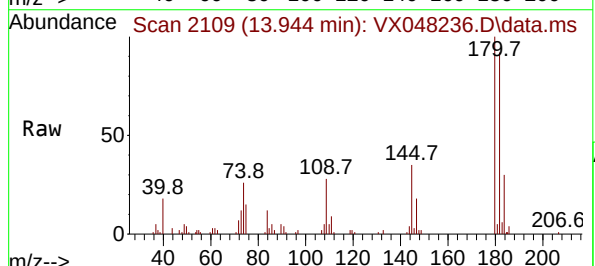
Tgt Ion:128 Resp: 26218
Ion Ratio Lower Upper
128 100
127 12.0 10.2 15.4
129 10.2 8.6 12.8

Manual Integrations
APPROVED

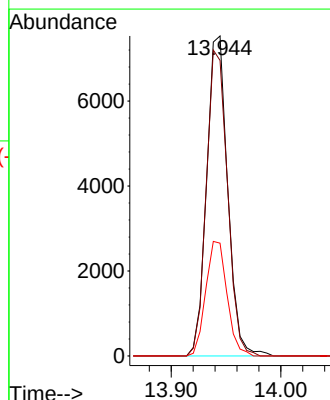
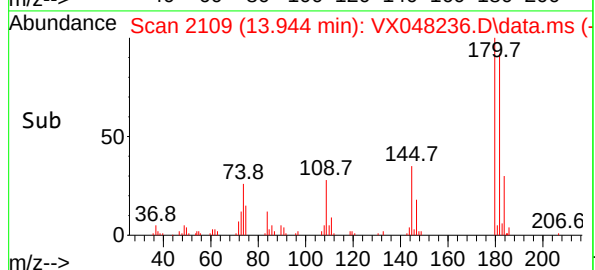
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.906 ug/l
RT: 13.944 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX048236.D
Acq: 20 Oct 2025 13:49



Tgt Ion:180 Resp: 10040
Ion Ratio Lower Upper
180 100
182 95.7 46.6 139.7
145 36.3 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
 Data File : VX048237.D
 Acq On : 20 Oct 2025 14:28
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX102025

Manual Integrations APPROVED

Reviewed By : John Carlone 10/21/2025
 Supervised By : Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 16:37:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.531	168	144715	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	229650	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	201397	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.000	152	99108	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.934	65	92700	45.687	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	91.380%
35) Dibromofluoromethane	5.367	113	76746	48.951	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.900%
50) Toluene-d8	8.628	98	265898	48.386	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	96.780%
62) 4-Bromofluorobenzene	11.061	95	97828	46.795	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	93.580%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.172	85	76365	51.331	ug/l	99
3) Chloromethane	1.301	50	74279	53.491	ug/l	99
4) Vinyl Chloride	1.380	62	71290	55.441	ug/l	99
5) Bromomethane	1.611	94	47863	54.847	ug/l	96
6) Chloroethane	1.691	64	42556	56.320	ug/l	95
7) Trichlorofluoromethane	1.892	101	128754	52.209	ug/l	97
8) Diethyl Ether	2.136	74	37292	53.742	ug/l	89
9) 1,1,2-Trichlorotrifluo...	2.331	101	83688	53.589	ug/l	96
10) Methyl Iodide	2.453	142	94222	47.994	ug/l	99
11) Tert butyl alcohol	2.934	59	45064	223.693	ug/l	98
12) 1,1-Dichloroethene	2.319	96	79070	52.043	ug/l	92
13) Acrolein	2.233	56	51257	249.473	ug/l	98
14) Allyl chloride	2.660	41	128896	51.099	ug/l	97
15) Acrylonitrile	3.050	53	182260	250.900	ug/l	100
16) Acetone	2.373	43	152988	219.789	ug/l	96
17) Carbon Disulfide	2.514	76	233630	48.792	ug/l	99
18) Methyl Acetate	2.697	43	71506	49.190	ug/l	94
19) Methyl tert-butyl Ether	3.105	73	254812	49.162	ug/l	98
20) Methylene Chloride	2.782	84	86610	51.066	ug/l	92
21) trans-1,2-Dichloroethene	3.087	96	85000	50.932	ug/l	96
22) Diisopropyl ether	3.745	45	259934	51.665	ug/l	99
23) Vinyl Acetate	3.709	43	1045584	260.168	ug/l	97
24) 1,1-Dichloroethane	3.599	63	150557	49.490	ug/l	99
25) 2-Butanone	4.532	43	209999	238.354	ug/l	97
26) 2,2-Dichloropropane	4.458	77	132433	48.230	ug/l	100
27) cis-1,2-Dichloroethene	4.471	96	98066	50.350	ug/l	96
28) Bromochloromethane	4.879	49	58764	46.587	ug/l	87
29) Tetrahydrofuran	4.977	42	127995	242.572	ug/l	95
30) Chloroform	5.074	83	157397	48.427	ug/l	99
31) Cyclohexane	5.458	56	132594	52.646	ug/l	92
32) 1,1,1-Trichloroethane	5.361	97	144706	48.309	ug/l	98
36) 1,1-Dichloropropene	5.672	75	109957	49.344	ug/l	100
37) Ethyl Acetate	4.690	43	88074	47.684	ug/l	98
38) Carbon Tetrachloride	5.659	117	132590	48.228	ug/l	99
39) Methylcyclohexane	7.360	83	138611	52.670	ug/l	94
40) Benzene	6.019	78	325041	50.241	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
 Data File : VX048237.D
 Acq On : 20 Oct 2025 14:28
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

ICVVX102025

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 16:37:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M

Quant Title : SW846 8260

QLast Update : Mon Oct 20 14:13:59 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.891	41	48846	50.358	ug/l	95
42) 1,2-Dichloroethane	6.068	62	116893	48.963	ug/l	98
43) Isopropyl Acetate	6.318	43	151140	49.816	ug/l	95
44) Trichloroethene	7.104	130	86410	50.582	ug/l	96
45) 1,2-Dichloropropane	7.409	63	78439	50.994	ug/l	98
46) Dibromomethane	7.562	93	58616	48.913	ug/l	94
47) Bromodichloromethane	7.799	83	125388	48.459	ug/l	99
48) Methyl methacrylate	7.671	41	75812	49.519	ug/l	94
49) 1,4-Dioxane	7.635	88	20230	1000.197	ug/l	90
51) 4-Methyl-2-Pentanone	8.555	43	428393	244.897	ug/l	95
52) Toluene	8.702	92	205867	50.088	ug/l	99
53) t-1,3-Dichloropropene	8.958	75	124683	50.004	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	134360	49.944	ug/l	93
55) 1,1,2-Trichloroethane	9.134	97	75808	49.597	ug/l	98
56) Ethyl methacrylate	9.098	69	111702	49.964	ug/l	94
57) 1,3-Dichloropropane	9.287	76	128519	49.226	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.220	63	290992	242.124	ug/l	96
59) 2-Hexanone	9.409	43	300183	246.102	ug/l	96
60) Dibromochloromethane	9.500	129	97643	47.530	ug/l	99
61) 1,2-Dibromoethane	9.592	107	80363	49.319	ug/l	97
64) Tetrachloroethene	9.256	164	73198	48.686	ug/l	95
65) Chlorobenzene	10.061	112	226953	50.095	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.140	131	81561	49.014	ug/l	99
67) Ethyl Benzene	10.177	91	391830	50.798	ug/l	99
68) m/p-Xylenes	10.281	106	293516	102.416	ug/l	99
69) o-Xylene	10.622	106	139515	50.424	ug/l	99
70) Styrene	10.634	104	243341	51.651	ug/l	100
71) Bromoform	10.781	173	64170	48.250	ug/l #	99
73) Isopropylbenzene	10.945	105	373948	51.658	ug/l	100
74) N-amyl acetate	10.823	43	131979	51.399	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.195	83	98715	49.936	ug/l	98
76) 1,2,3-Trichloropropane	11.219	75	81093m	50.456	ug/l	
77) Bromobenzene	11.177	156	91000	50.135	ug/l	94
78) n-propylbenzene	11.287	91	435662	51.980	ug/l	99
79) 2-Chlorotoluene	11.341	91	257936	50.760	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	305027	50.918	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	33027	49.995	ug/l	96
82) 4-Chlorotoluene	11.433	91	304670	50.507	ug/l	98
83) tert-Butylbenzene	11.695	119	309524	50.288	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	308529	51.607	ug/l	100
85) sec-Butylbenzene	11.872	105	379368	51.230	ug/l	100
86) p-Isopropyltoluene	11.988	119	324425	50.686	ug/l	100
87) 1,3-Dichlorobenzene	11.951	146	165027	48.229	ug/l	98
88) 1,4-Dichlorobenzene	12.024	146	168102	47.423	ug/l	99
89) n-Butylbenzene	12.311	91	289706	49.728	ug/l	99
90) Hexachloroethane	12.518	117	61223	48.437	ug/l	95
91) 1,2-Dichlorobenzene	12.317	146	157812	49.123	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	19691	49.072	ug/l	98
93) 1,2,4-Trichlorobenzene	13.567	180	101983	46.941	ug/l	99
94) Hexachlorobutadiene	13.707	225	39299	48.274	ug/l	99
95) Naphthalene	13.756	128	289882	50.362	ug/l	100
96) 1,2,3-Trichlorobenzene	13.938	180	96139	48.223	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

Quant Time: Oct 20 16:37:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

ICVVX102025

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025

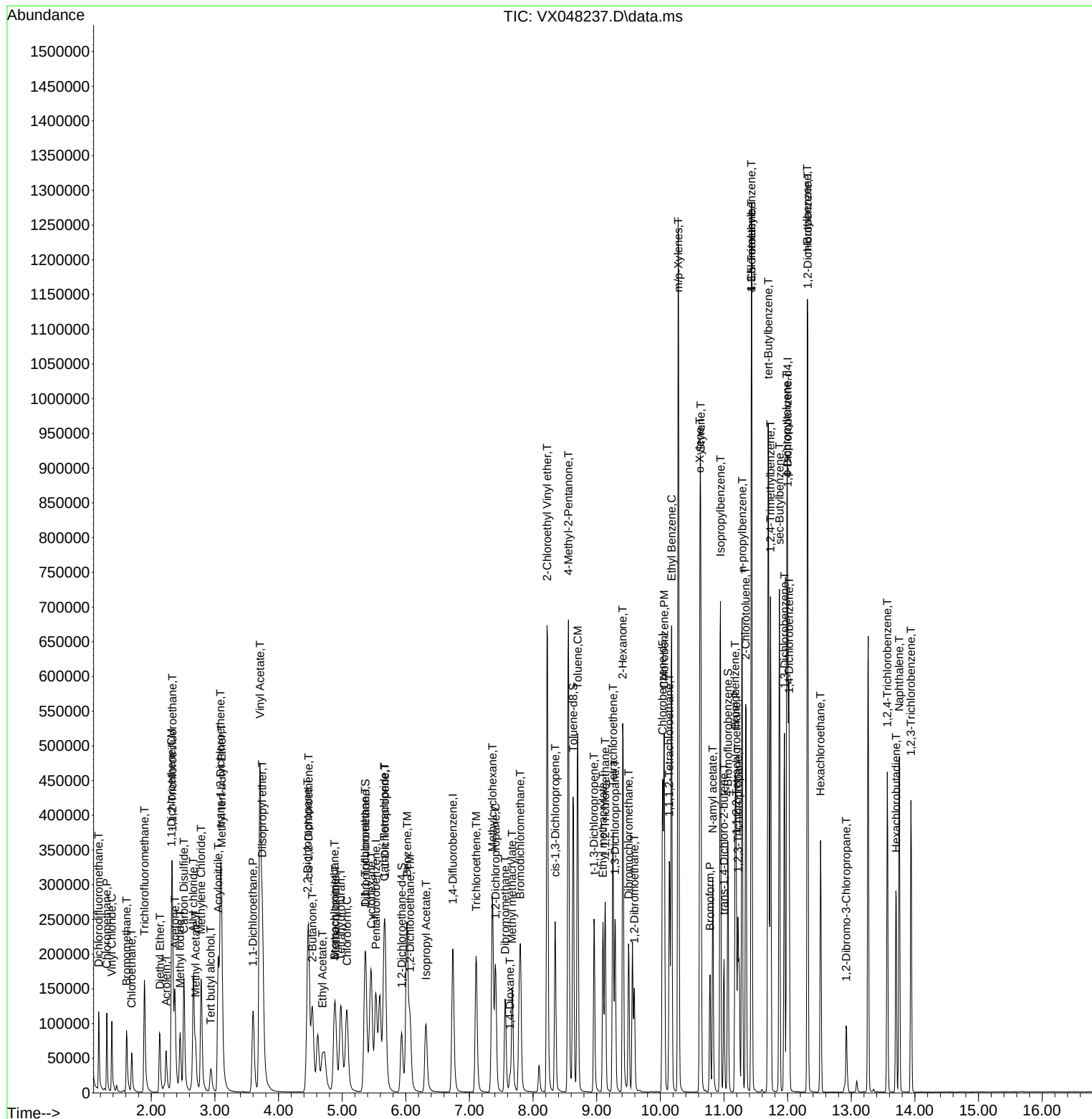
Quant Time: Oct 20 16:37:21 2025

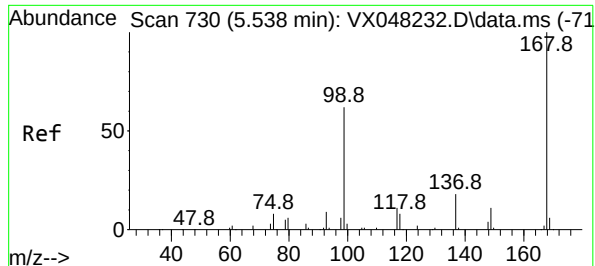
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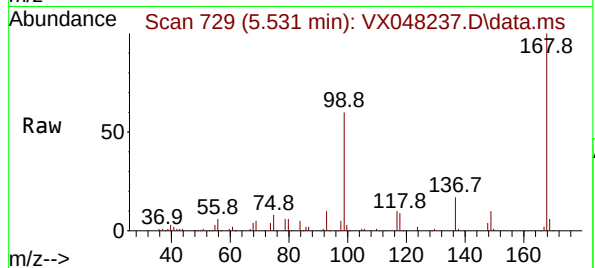
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 71
Delta R.T. -0.013 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

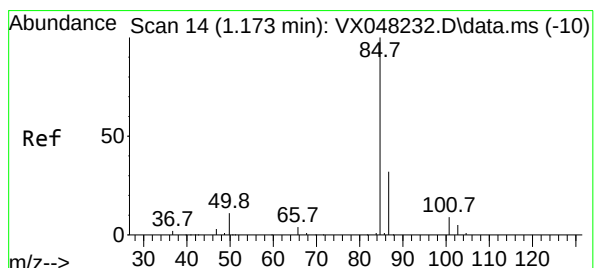
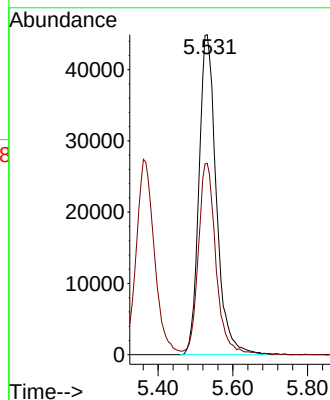
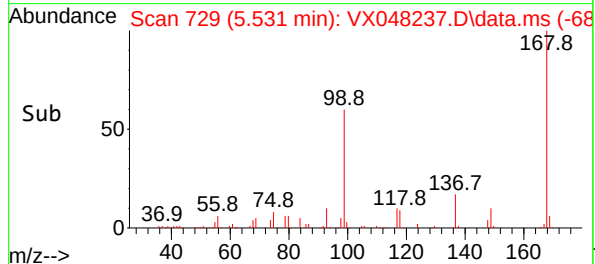
Instrument :
MSVOA_X
ClientSampleId :
ICVXX102025



Tgt Ion:168 Resp: 144715
Ion Ratio Lower Upper
168 100
99 59.7 46.4 69.6

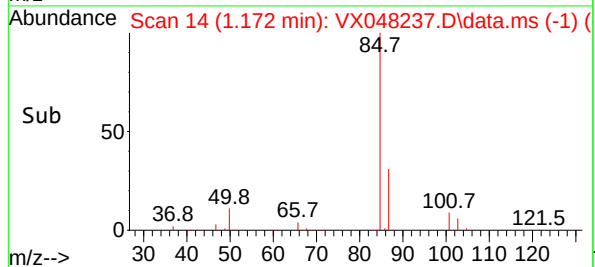
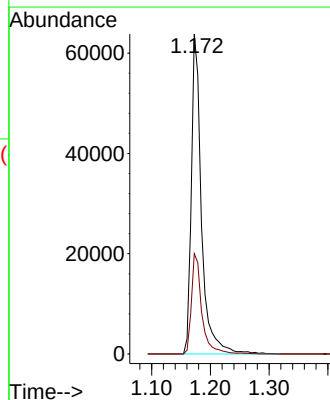
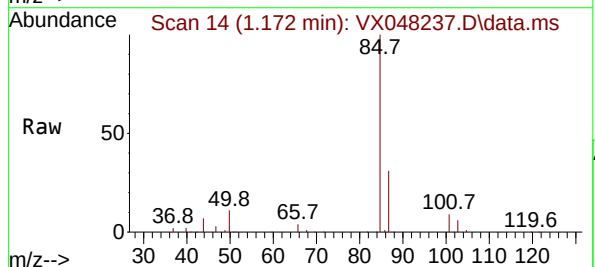
Manual Integrations
APPROVED

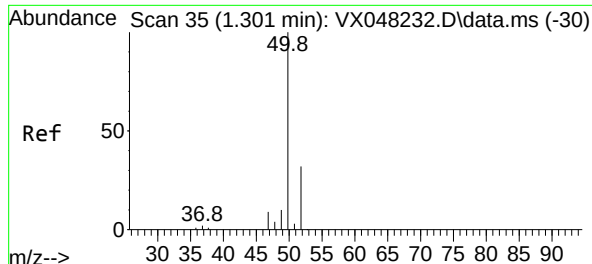
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#2
Dichlorodifluoromethane
Concen: 51.331 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 85 Resp: 76365
Ion Ratio Lower Upper
85 100
87 31.4 15.3 45.9





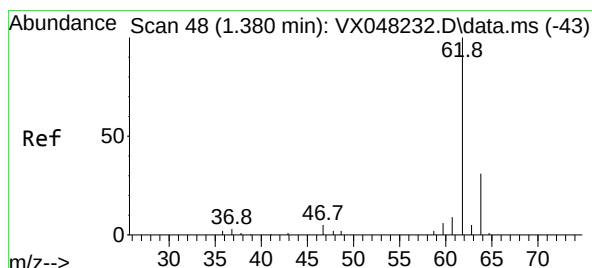
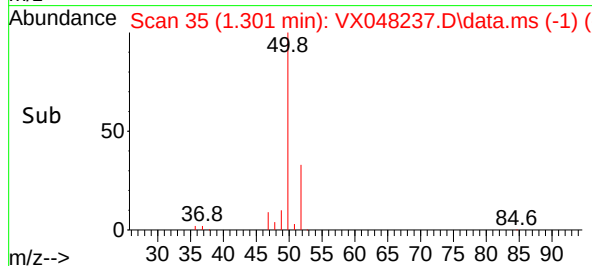
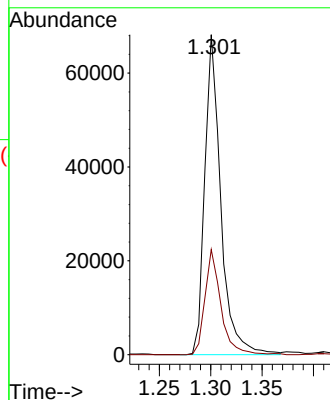
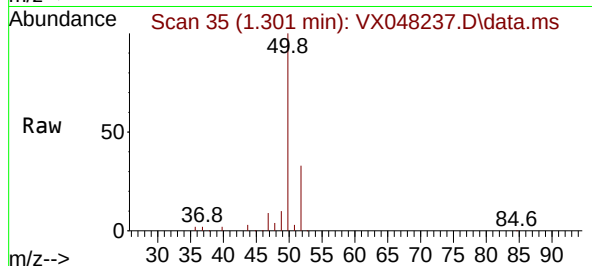
#3
Chloromethane
Concen: 53.491 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 50 Resp: 74279
Ion Ratio Lower Upper
50 100
52 32.9 25.9 38.9

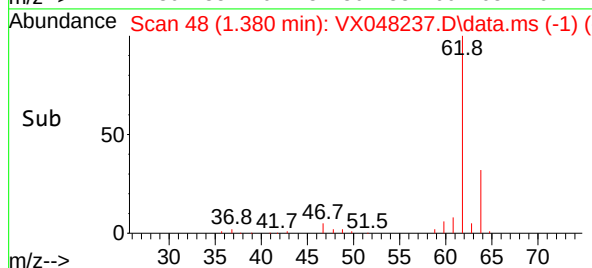
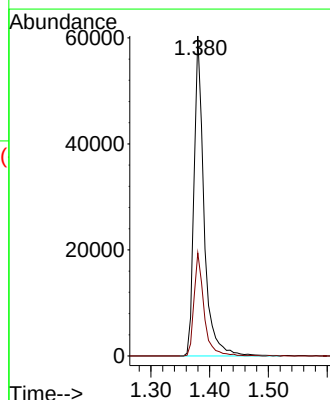
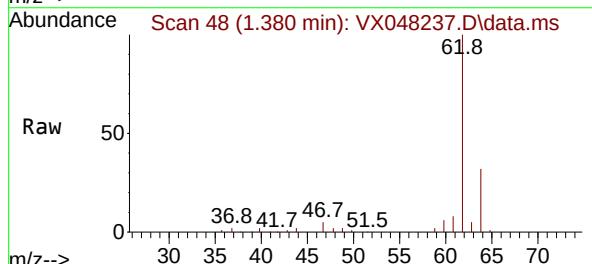
Manual Integrations
APPROVED

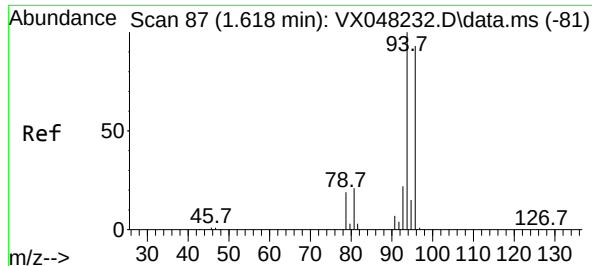
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#4
Vinyl Chloride
Concen: 55.441 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 62 Resp: 71290
Ion Ratio Lower Upper
62 100
64 32.2 25.1 37.7





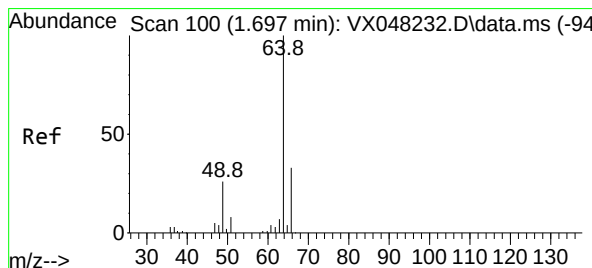
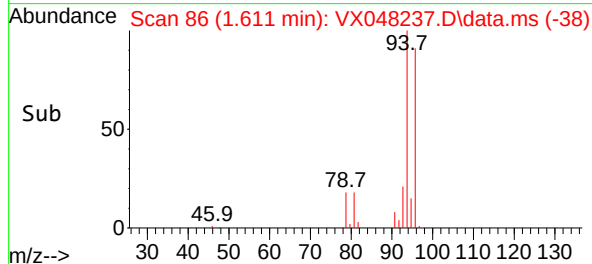
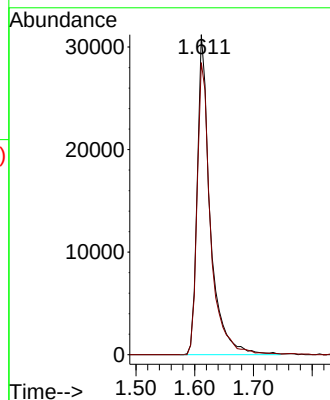
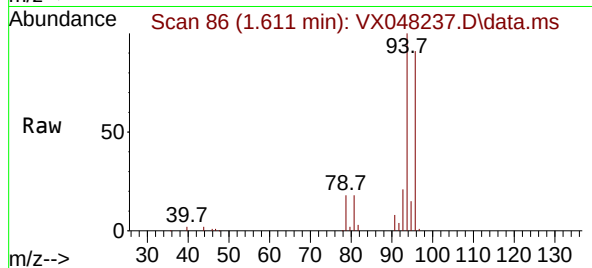
#5
Bromomethane
Concen: 54.847 ug/l
RT: 1.611 min Scan# 80
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 94 Resp: 4786
Ion Ratio Lower Upper
94 100
96 91.2 76.0 114.0

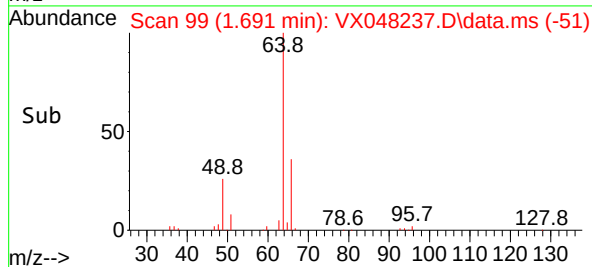
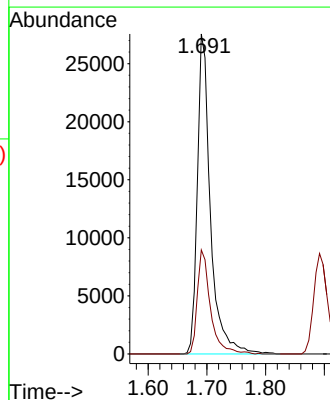
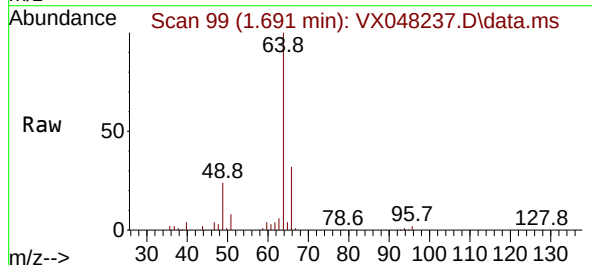
Manual Integrations
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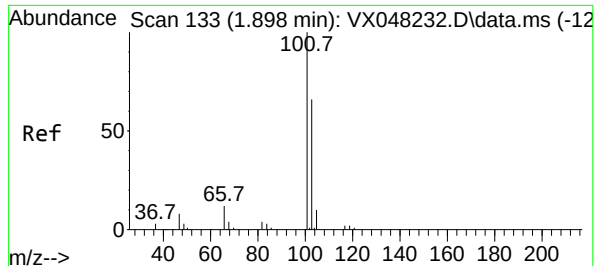
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#6
Chloroethane
Concen: 56.320 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 64 Resp: 42556
Ion Ratio Lower Upper
64 100
66 32.5 23.9 35.9





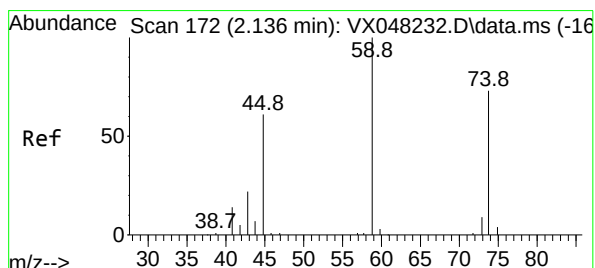
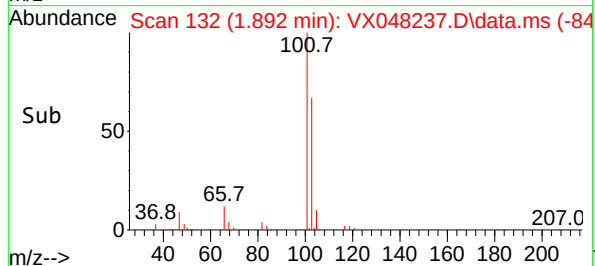
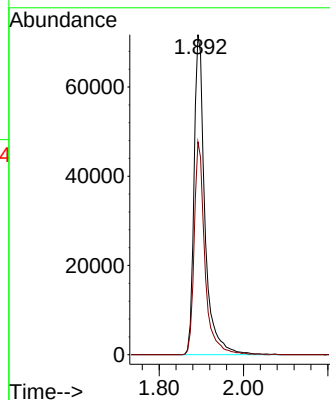
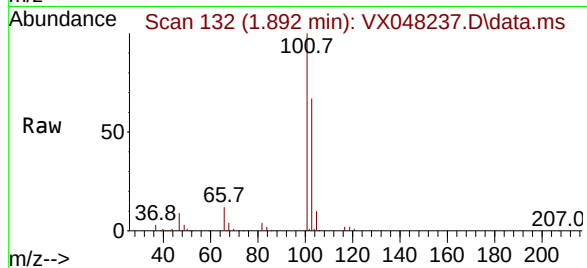
#7
Trichlorofluoromethane
Concen: 52.209 ug/l
RT: 1.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion:101 Resp: 128754
Ion Ratio Lower Upper
101 100
103 66.5 51.6 77.4

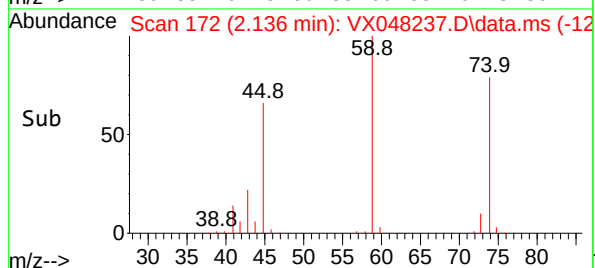
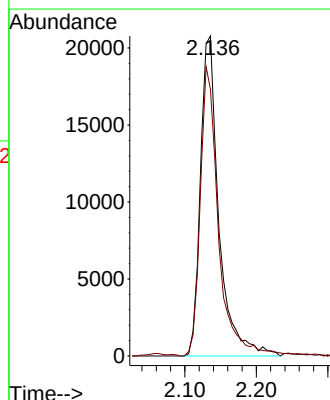
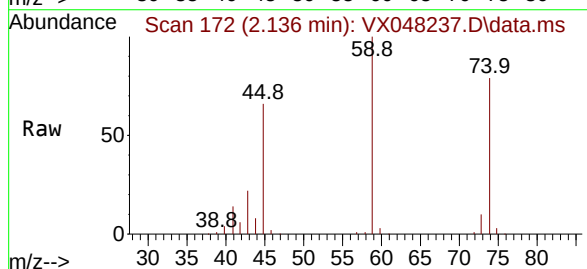
Manual Integrations
APPROVED

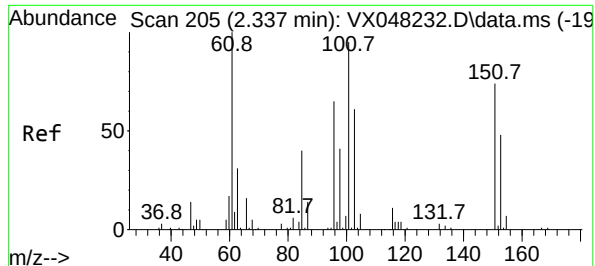
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#8
Diethyl Ether
Concen: 53.742 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 74 Resp: 37292
Ion Ratio Lower Upper
74 100
45 89.3 50.0 149.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 53.589 ug/l

RT: 2.331 min Scan# 205

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion:101 Resp: 8368

Ion Ratio Lower Upper

101 100

85 42.4 35.6 53.4

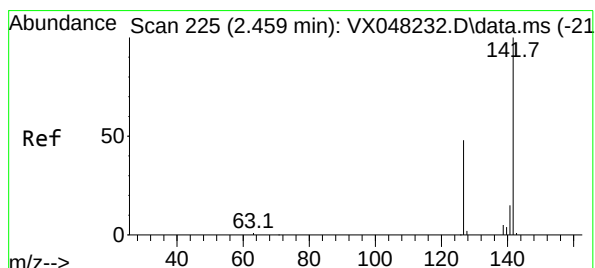
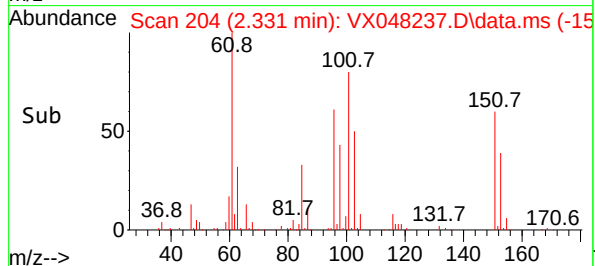
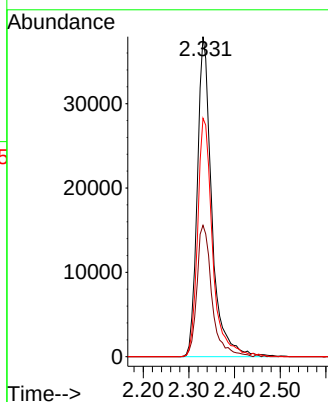
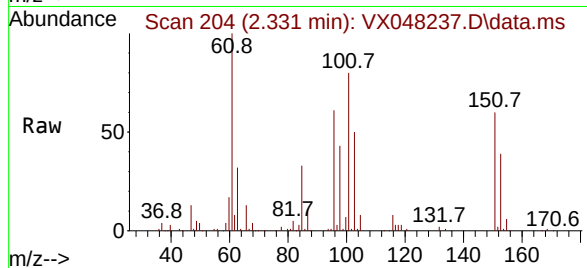
151 76.9 58.0 87.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#10

Methyl Iodide

Concen: 47.994 ug/l

RT: 2.453 min Scan# 224

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

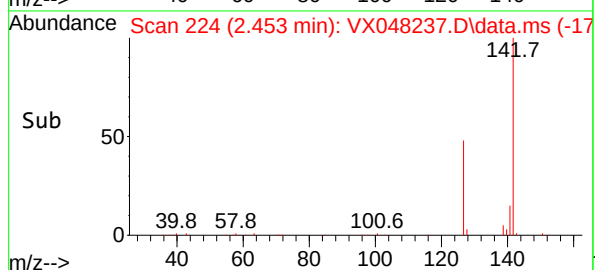
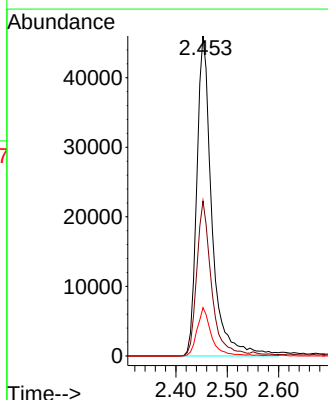
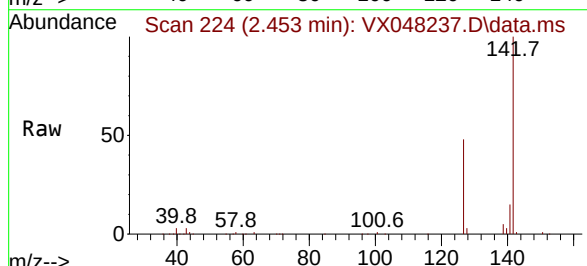
Tgt Ion:142 Resp: 94222

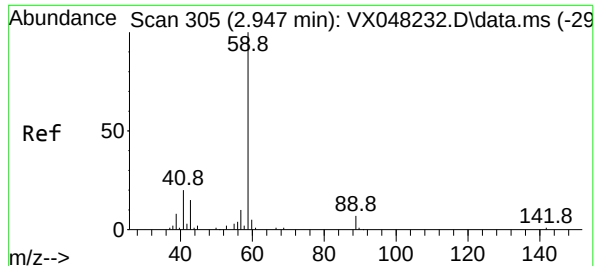
Ion Ratio Lower Upper

142 100

127 46.9 38.5 57.7

141 14.3 11.6 17.4





#11

Tert butyl alcohol

Concen: 223.693 ug/l

RT: 2.934 min Scan# 30

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion: 59 Resp: 45064

Ion Ratio Lower Upper

59 100

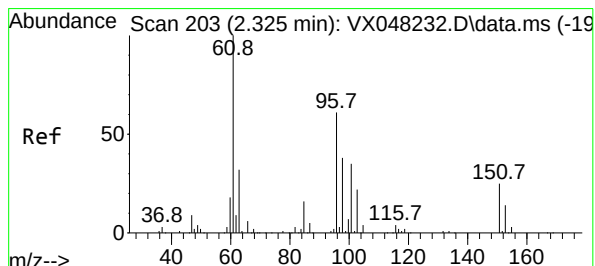
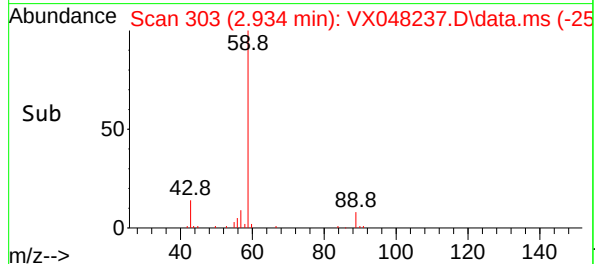
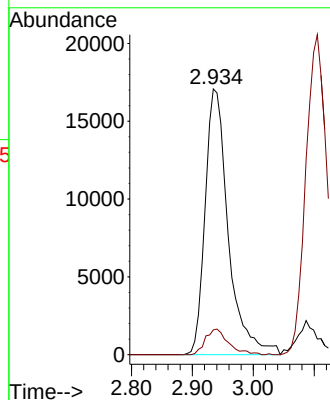
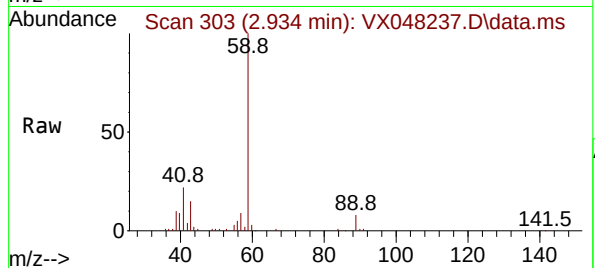
57 9.6 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#12

1,1-Dichloroethene

Concen: 52.043 ug/l

RT: 2.319 min Scan# 202

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

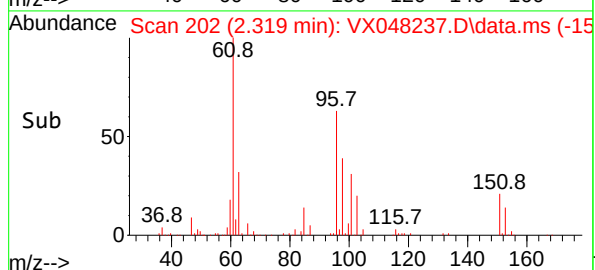
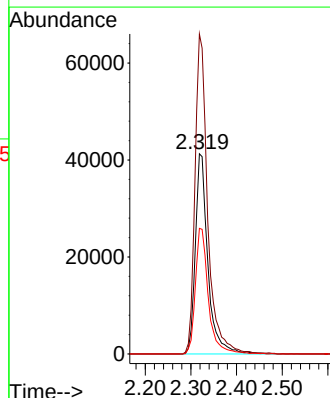
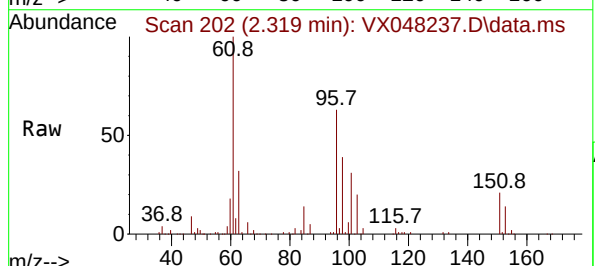
Tgt Ion: 96 Resp: 79070

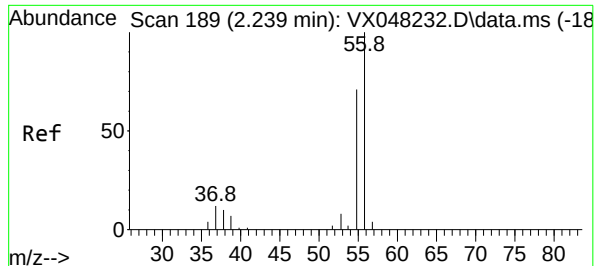
Ion Ratio Lower Upper

96 100

61 159.8 139.0 208.6

98 62.7 52.4 78.6





#13

Acrolein

Concen: 249.473 ug/l

RT: 2.233 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion: 56 Resp: 5125

Ion Ratio Lower Upper

56 100

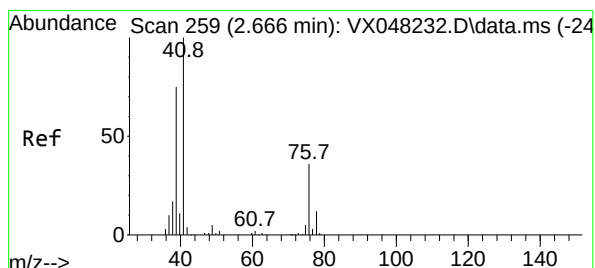
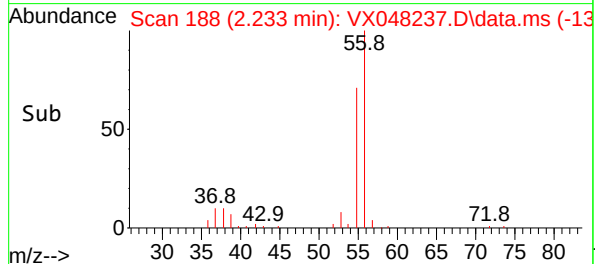
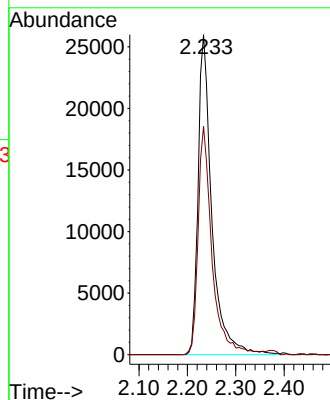
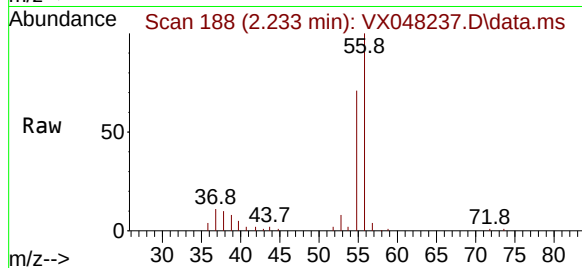
55 71.7 56.1 84.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#14

Allyl chloride

Concen: 51.099 ug/l

RT: 2.660 min Scan# 258

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

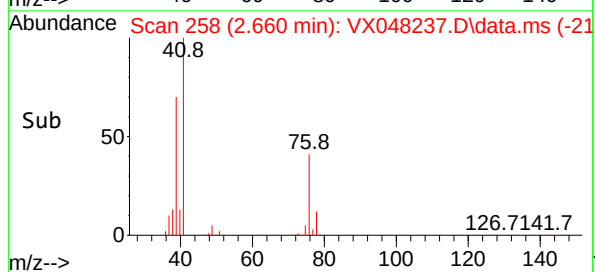
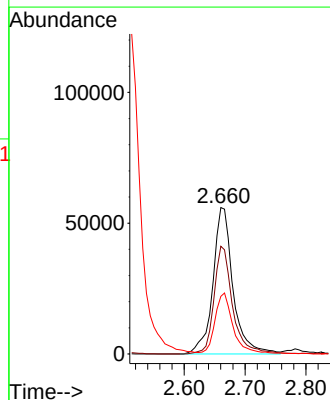
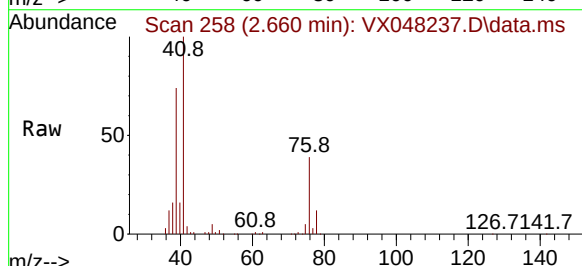
Tgt Ion: 41 Resp: 128896

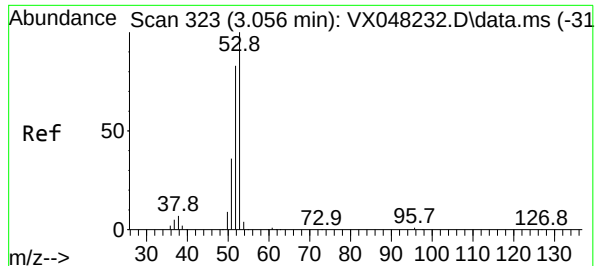
Ion Ratio Lower Upper

41 100

39 68.0 56.0 84.0

76 37.0 27.5 41.3





#15

Acrylonitrile

Concen: 250.900 ug/l

RT: 3.050 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion: 53 Resp: 182260

Ion Ratio Lower Upper

53 100

52 82.6 66.1 99.1

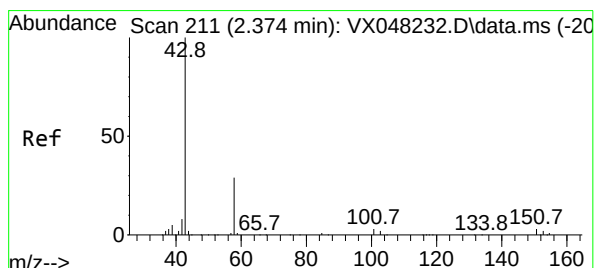
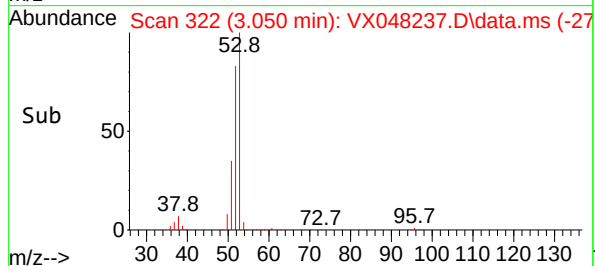
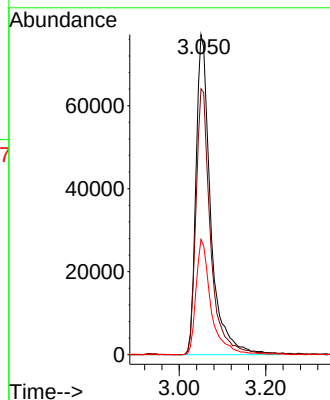
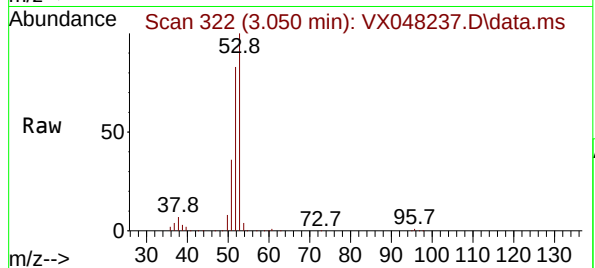
51 36.8 29.0 43.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#16

Acetone

Concen: 219.789 ug/l

RT: 2.373 min Scan# 211

Delta R.T. -0.000 min

Lab File: VX048237.D

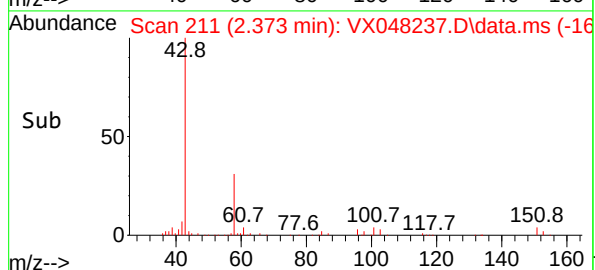
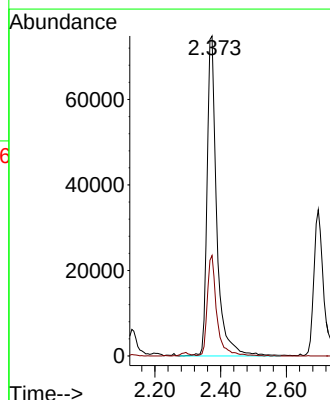
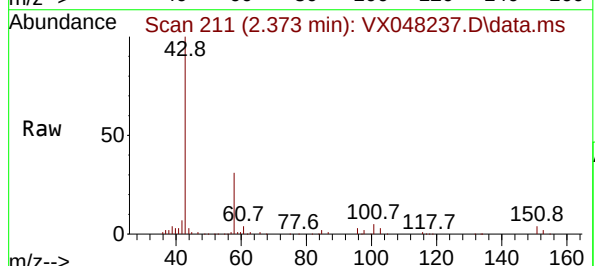
Acq: 20 Oct 2025 14:28

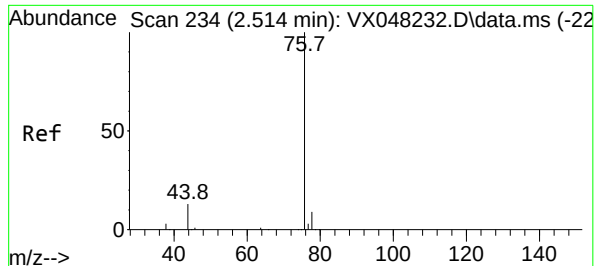
Tgt Ion: 43 Resp: 152988

Ion Ratio Lower Upper

43 100

58 31.4 23.4 35.2





#17

Carbon Disulfide

Concen: 48.792 ug/l

RT: 2.514 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVVX102025

Tgt Ion: 76 Resp: 233630

Ion Ratio Lower Upper

76 100

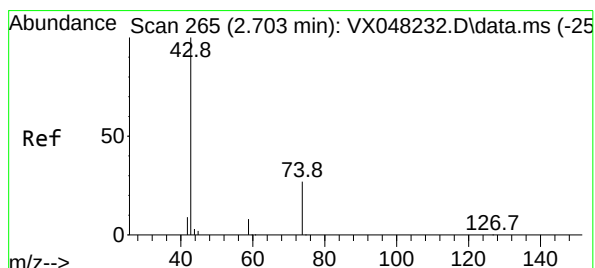
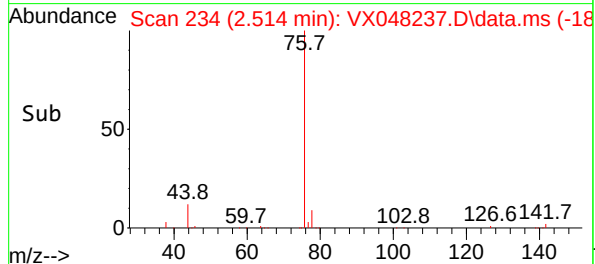
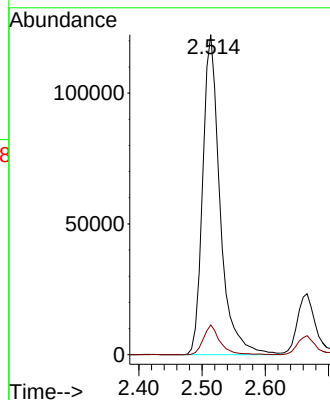
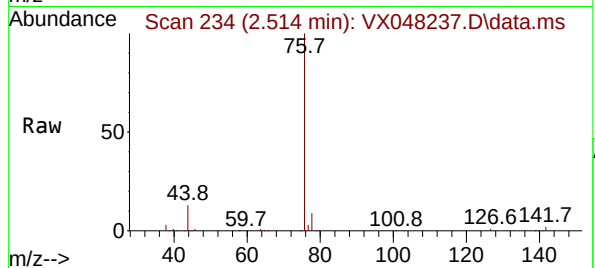
78 9.3 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#18

Methyl Acetate

Concen: 49.190 ug/l

RT: 2.697 min Scan# 264

Delta R.T. -0.000 min

Lab File: VX048237.D

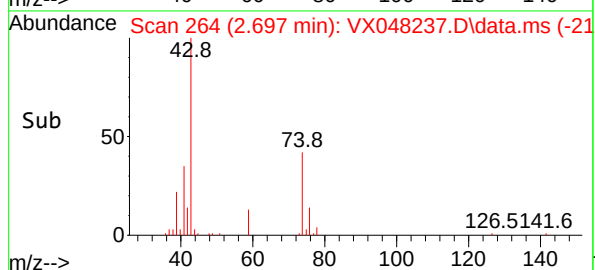
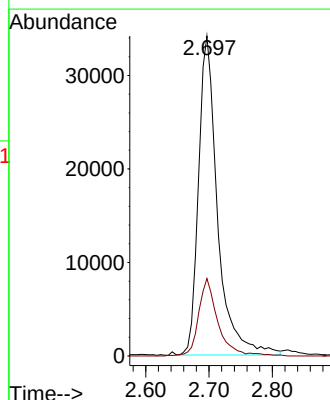
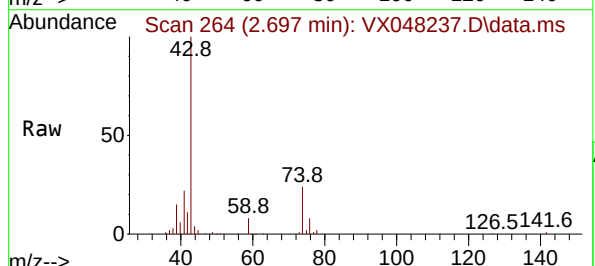
Acq: 20 Oct 2025 14:28

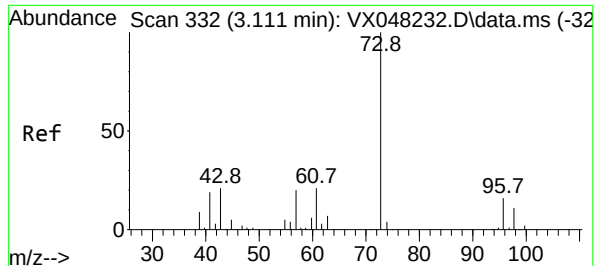
Tgt Ion: 43 Resp: 71506

Ion Ratio Lower Upper

43 100

74 24.7 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 49.162 ug/l

RT: 3.105 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion: 73 Resp: 25481

Ion Ratio Lower Upper

73 100

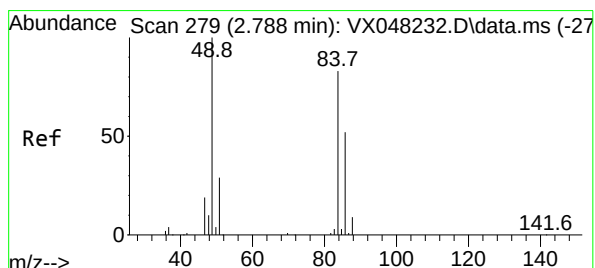
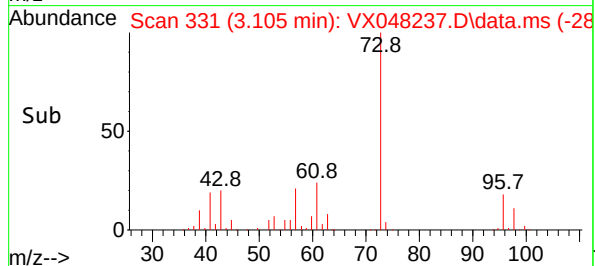
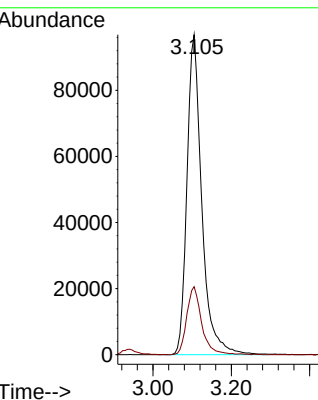
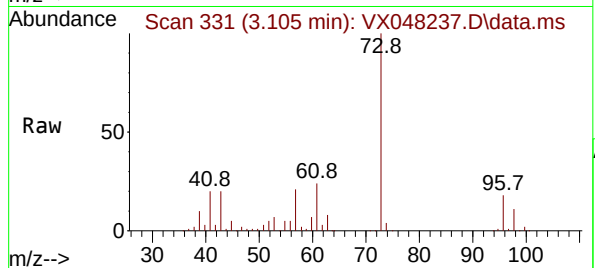
57 21.2 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#20

Methylene Chloride

Concen: 51.066 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Tgt Ion: 84 Resp: 86610

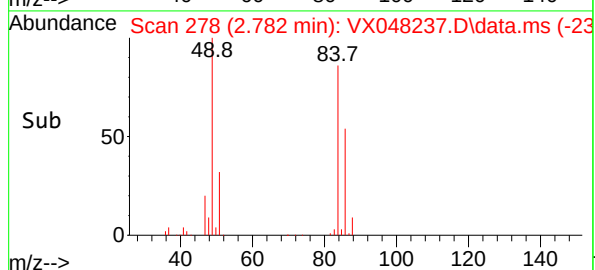
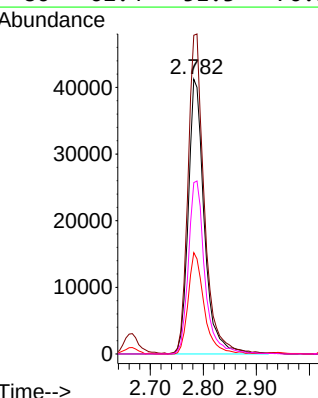
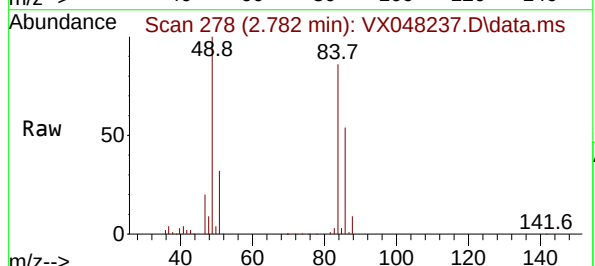
Ion Ratio Lower Upper

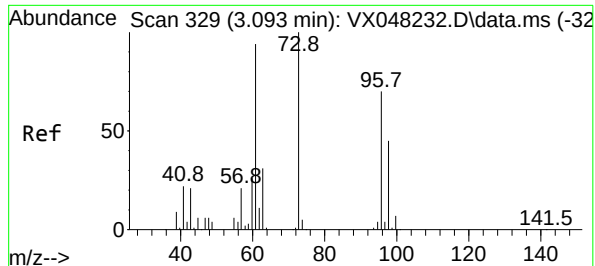
84 100

49 116.0 104.1 156.1

51 36.8 31.3 46.9

86 62.4 51.3 76.9





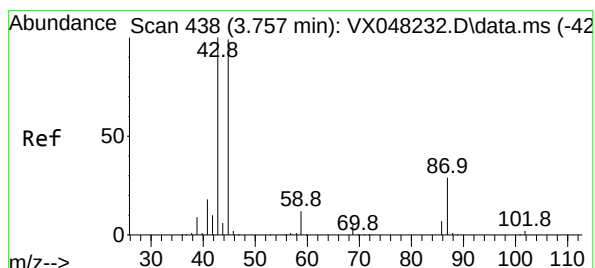
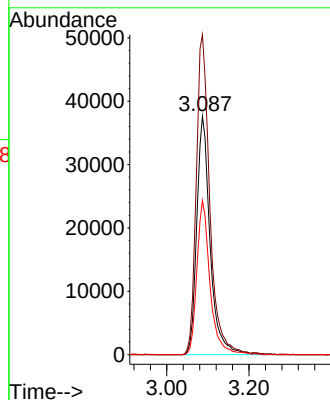
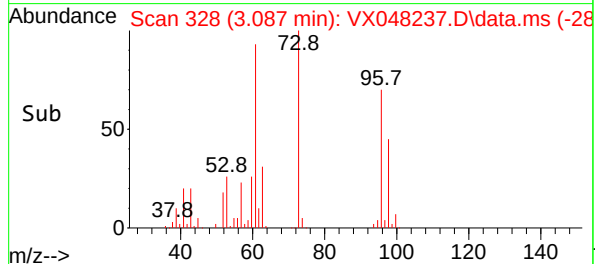
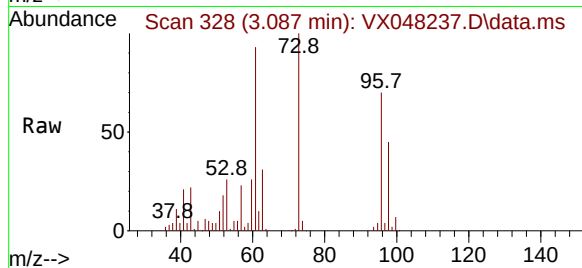
#21
trans-1,2-Dichloroethene
Concen: 50.932 ug/l
RT: 3.087 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 96 Resp: 85000
Ion Ratio Lower Upper
96 100
61 134.2 111.9 167.9
98 64.7 51.2 76.8

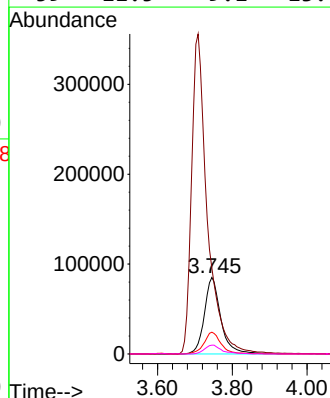
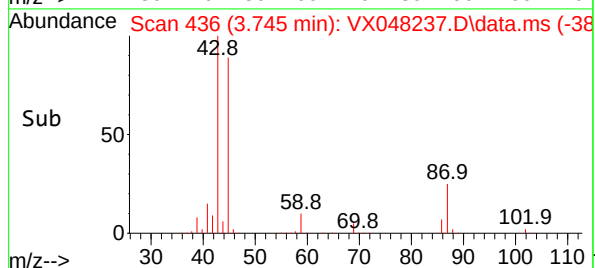
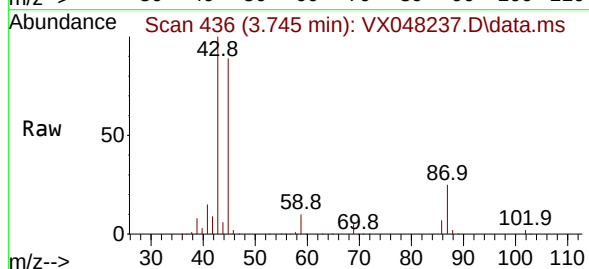
Manual Integrations
APPROVED

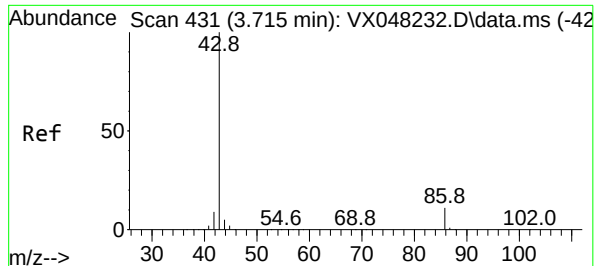
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#22
Diisopropyl ether
Concen: 51.665 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 45 Resp: 259934
Ion Ratio Lower Upper
45 100
43 111.4 89.8 134.8
87 28.3 20.6 31.0
59 11.5 9.1 13.7





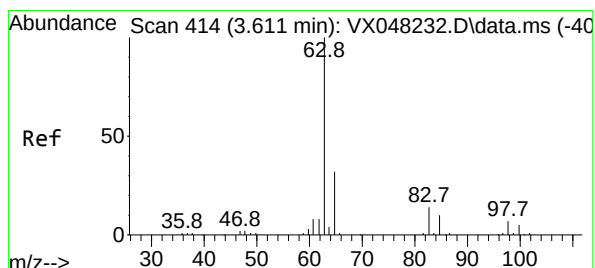
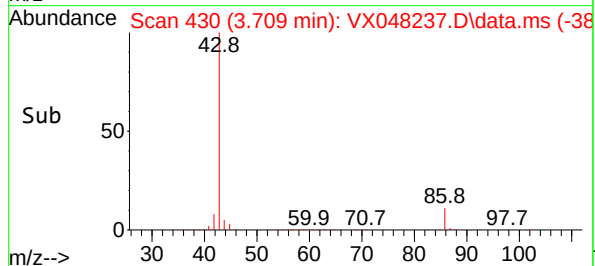
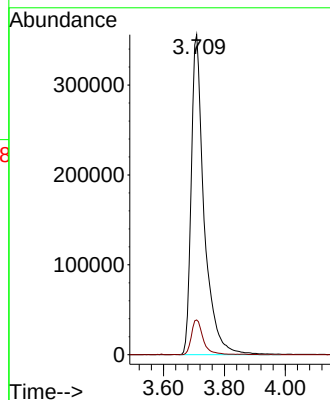
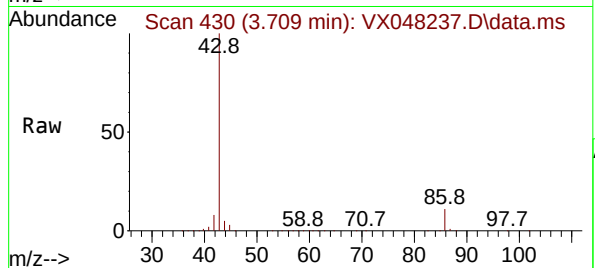
#23
Vinyl Acetate
Concen: 260.168 ug/l
RT: 3.709 min Scan# 41
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 43 Resp: 1045584
Ion Ratio Lower Upper
43 100
86 10.9 7.9 11.9

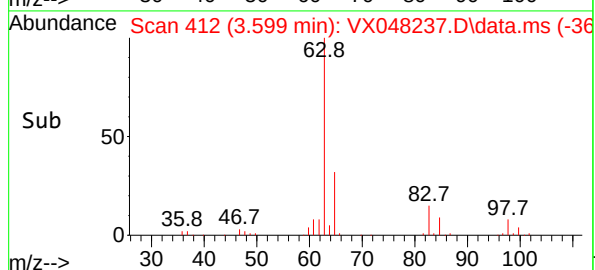
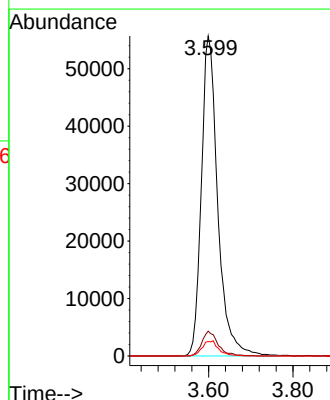
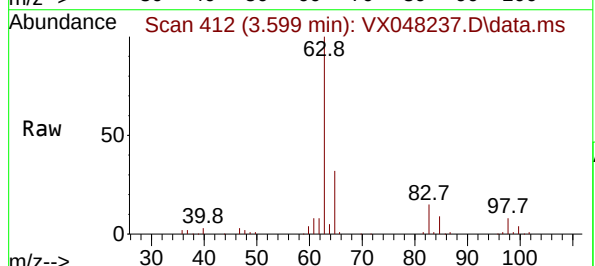
Manual Integrations
APPROVED

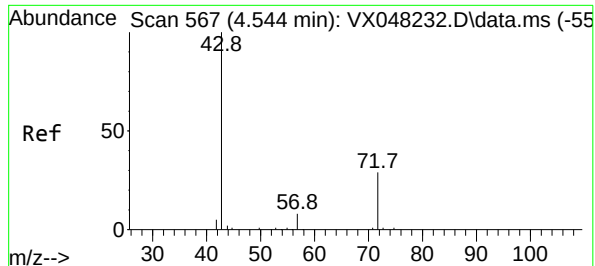
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#24
1,1-Dichloroethane
Concen: 49.490 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 63 Resp: 150557
Ion Ratio Lower Upper
63 100
98 7.7 3.5 10.6
100 4.5 2.1 6.3





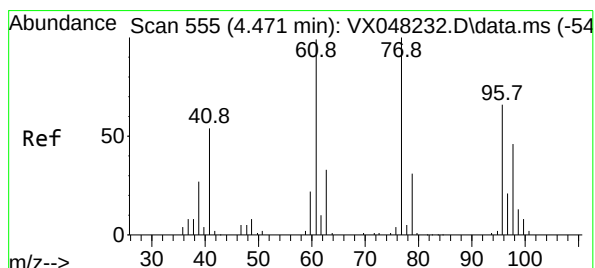
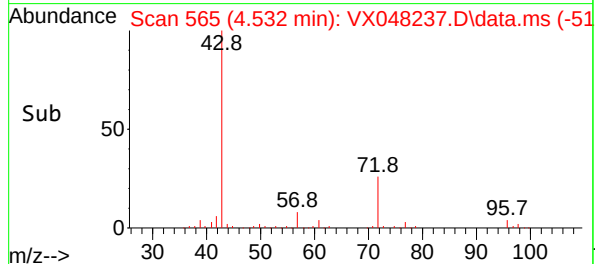
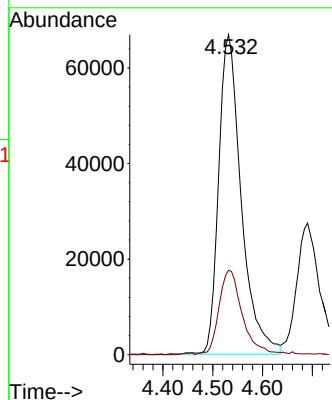
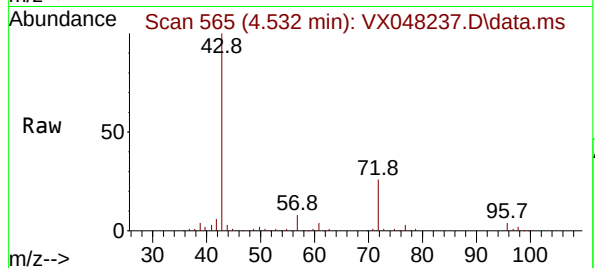
#25
2-Butanone
Concen: 238.354 ug/l
RT: 4.532 min Scan# 50
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Tgt Ion: 43 Resp: 209999
Ion Ratio Lower Upper
43 100
72 26.3 19.9 29.9

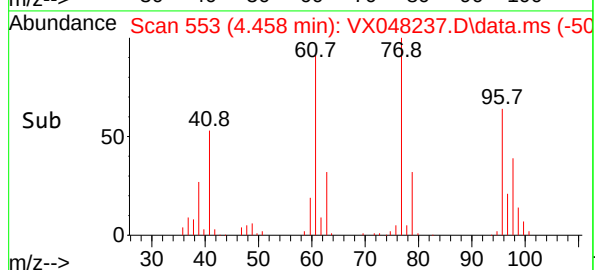
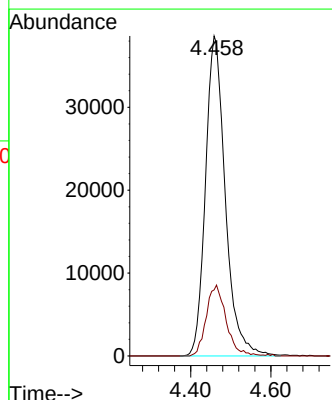
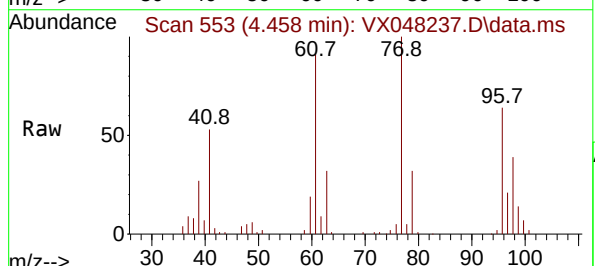
Manual Integrations
APPROVED

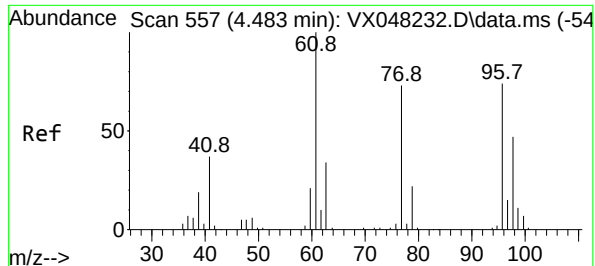
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#26
2,2-Dichloropropane
Concen: 48.230 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 77 Resp: 132433
Ion Ratio Lower Upper
77 100
97 22.1 11.1 33.3





#27

cis-1,2-Dichloroethene

Concen: 50.350 ug/l

RT: 4.471 min Scan# 51

Delta R.T. -0.012 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion: 96 Resp: 9806

Ion Ratio Lower Upper

96 100

61 140.3 0.0 294.2

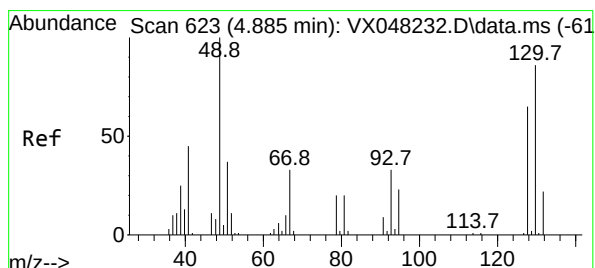
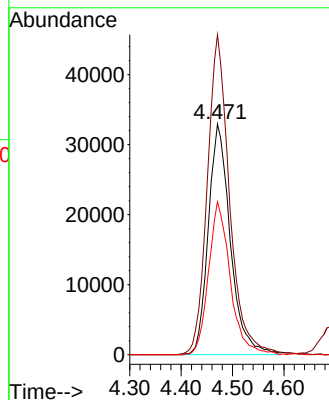
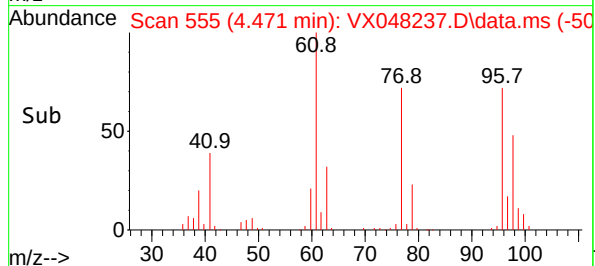
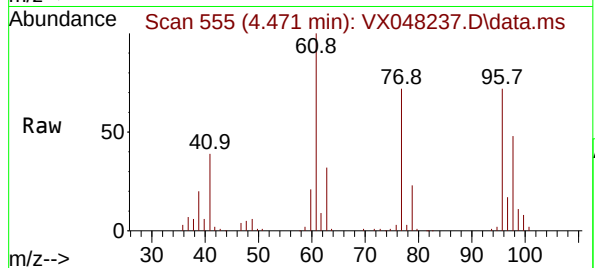
98 65.2 0.0 128.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#28

Bromochloromethane

Concen: 46.587 ug/l

RT: 4.879 min Scan# 622

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

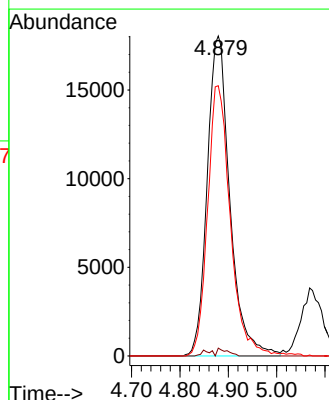
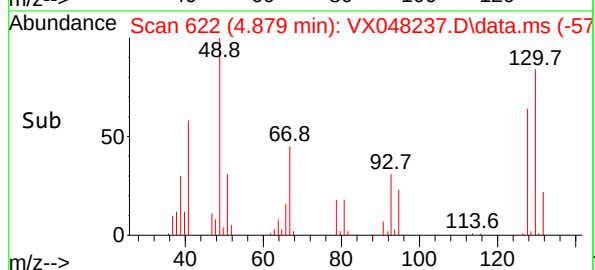
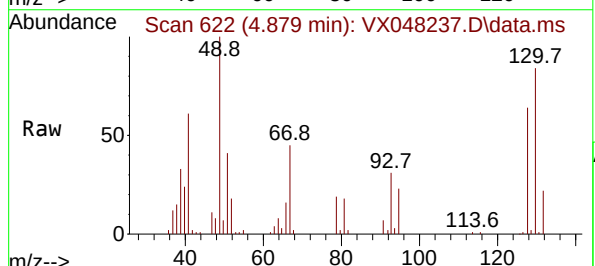
Tgt Ion: 49 Resp: 58764

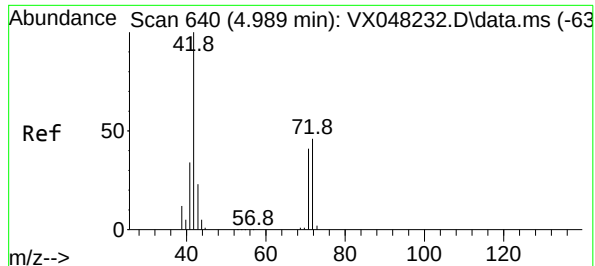
Ion Ratio Lower Upper

49 100

129 1.1 0.0 4.4

130 85.1 59.3 88.9





#29

Tetrahydrofuran

Concen: 242.572 ug/l

RT: 4.977 min Scan# 61

Delta R.T. -0.012 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion: 42 Resp: 12799

Ion Ratio Lower Upper

42 100

72 47.4 35.3 52.9

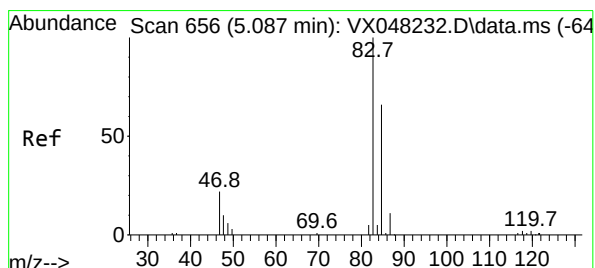
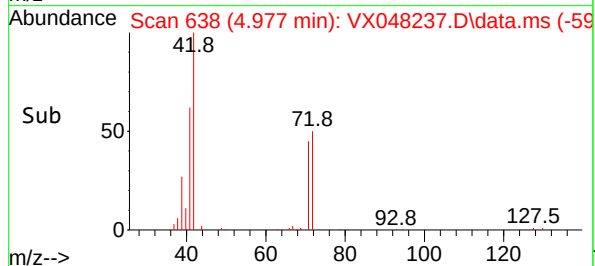
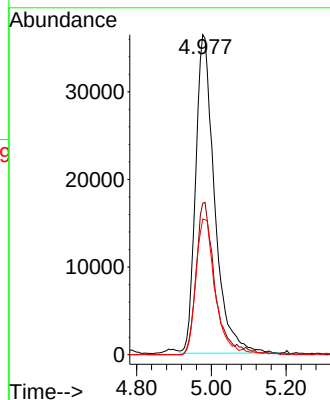
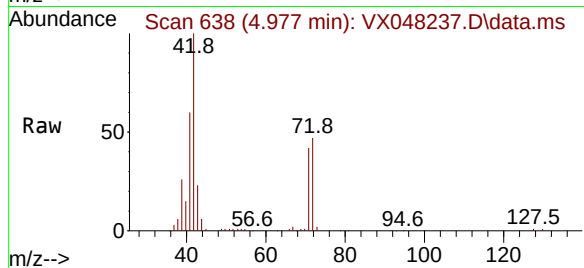
71 43.8 32.2 48.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#30

Chloroform

Concen: 48.427 ug/l

RT: 5.074 min Scan# 654

Delta R.T. -0.006 min

Lab File: VX048237.D

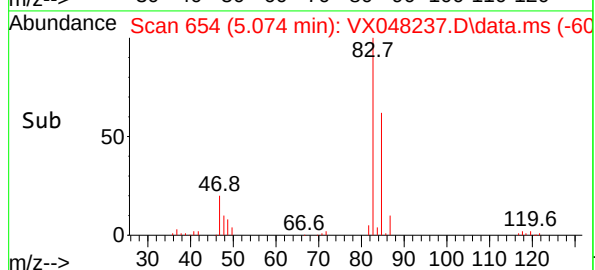
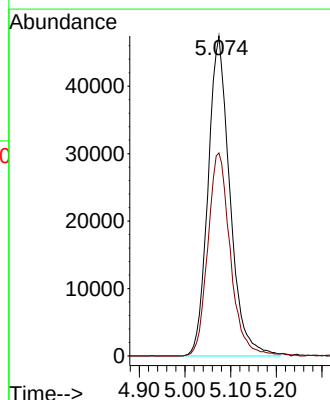
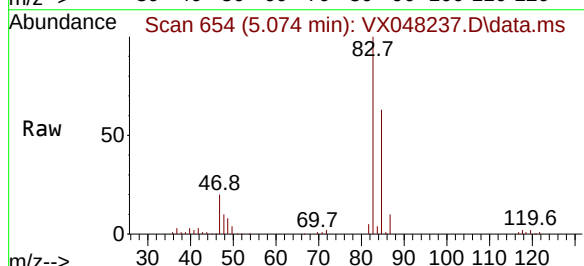
Acq: 20 Oct 2025 14:28

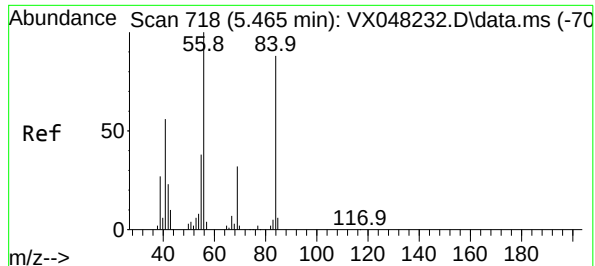
Tgt Ion: 83 Resp: 157397

Ion Ratio Lower Upper

83 100

85 63.4 50.1 75.1





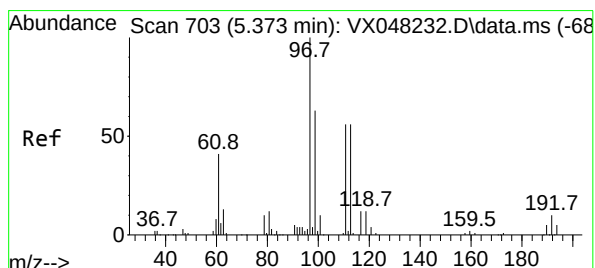
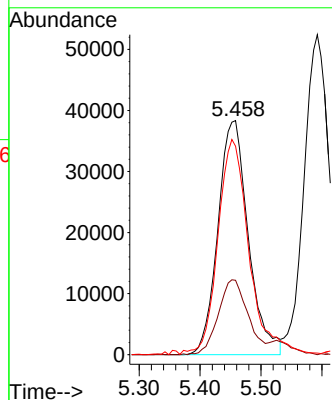
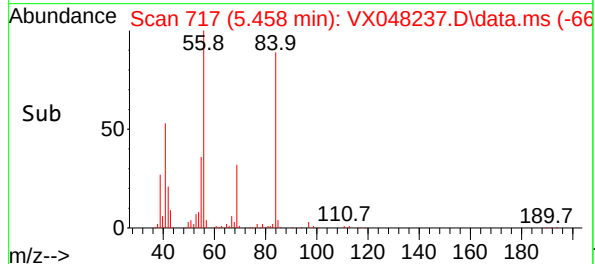
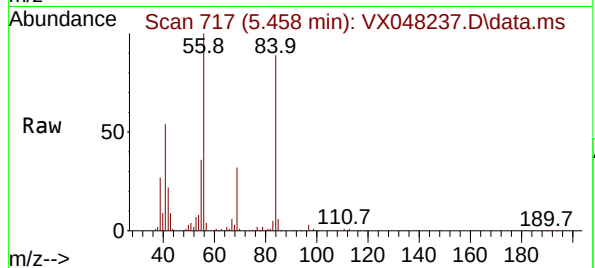
#31
Cyclohexane
Concen: 52.646 ug/l
RT: 5.458 min Scan# 718
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVX102025

Tgt Ion: 56 Resp: 132594
Ion Ratio Lower Upper
56 100
69 31.8 23.0 34.6
84 88.9 64.6 97.0

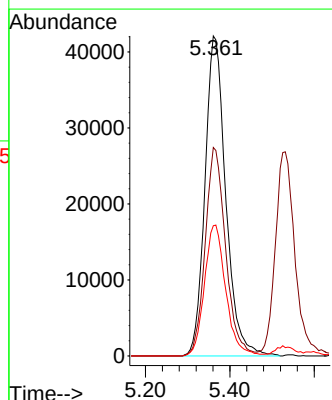
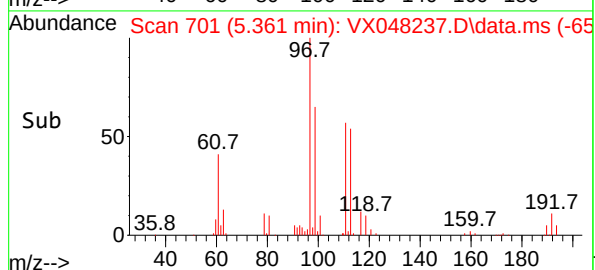
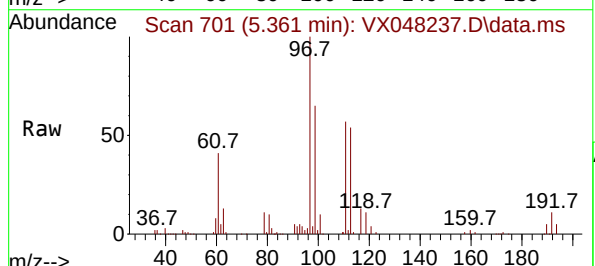
Manual Integrations
APPROVED

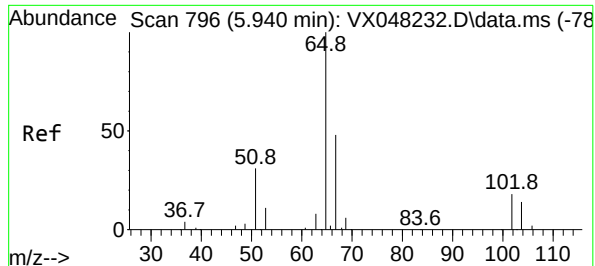
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#32
1,1,1-Trichloroethane
Concen: 48.309 ug/l
RT: 5.361 min Scan# 701
Delta R.T. -0.012 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 97 Resp: 144706
Ion Ratio Lower Upper
97 100
99 64.0 51.7 77.5
61 41.8 34.8 52.2





#33

1,2-Dichloroethane-d4

Concen: 45.687 ug/l

RT: 5.934 min Scan# 796

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVXX102025

Tgt Ion: 65 Resp: 92700

Ion Ratio Lower Upper

65 100

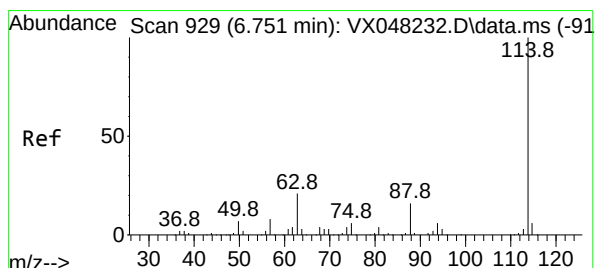
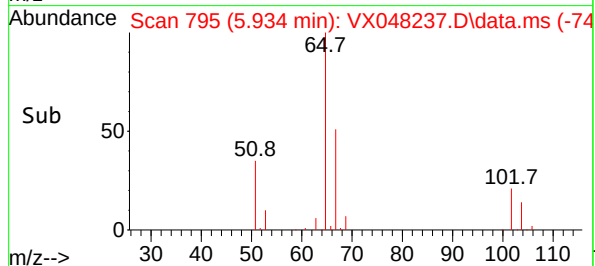
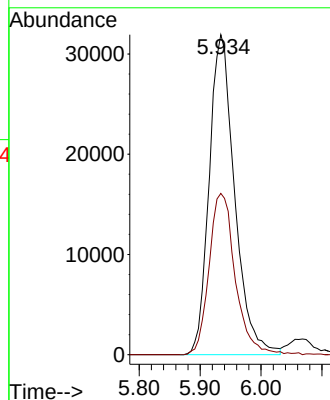
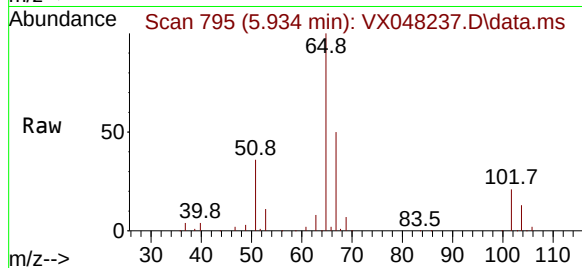
67 51.9 0.0 105.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.739 min Scan# 927

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

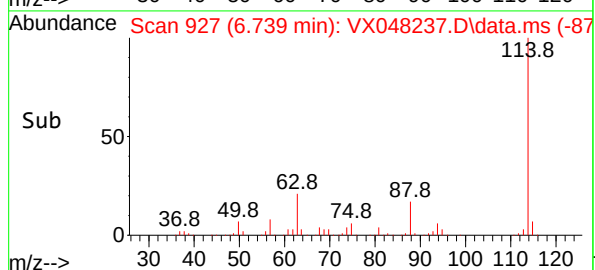
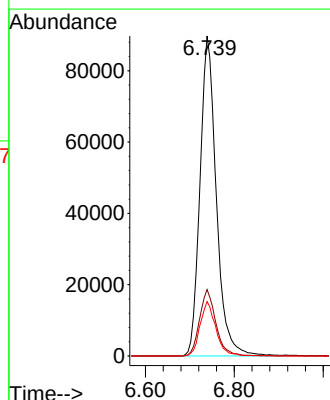
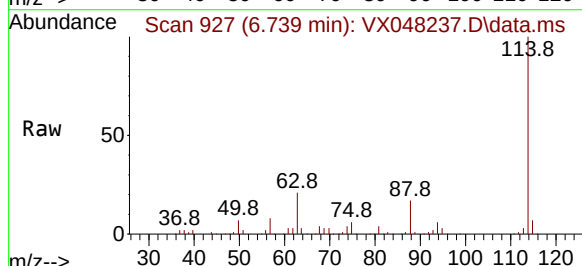
Tgt Ion:114 Resp: 229650

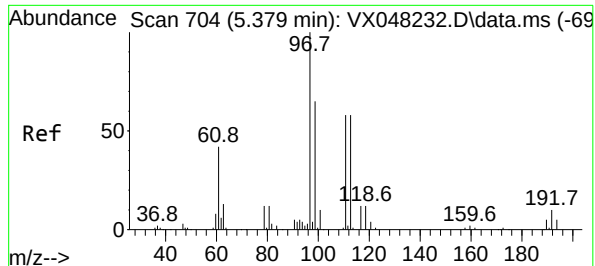
Ion Ratio Lower Upper

114 100

63 23.6 0.0 43.2

88 17.0 0.0 33.6





#35

Dibromofluoromethane

Concen: 48.951 ug/l

RT: 5.367 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion:113 Resp: 76740

Ion Ratio Lower Upper

113 100

111 102.5 82.2 123.4

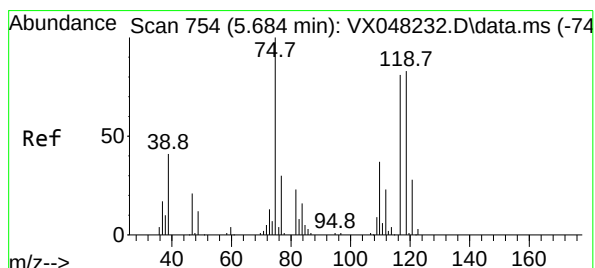
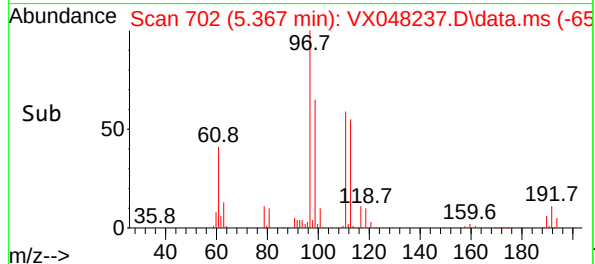
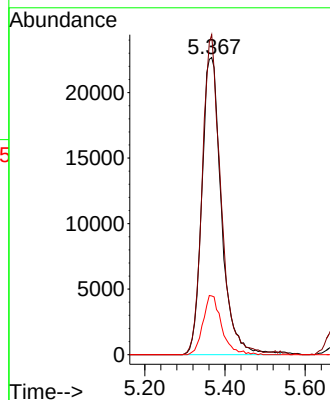
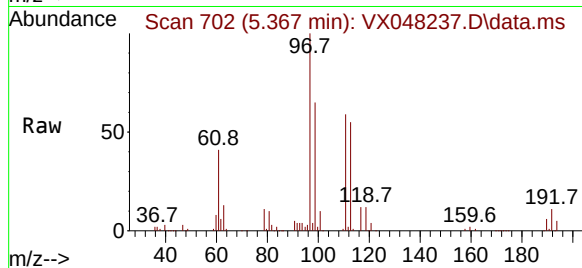
192 19.0 15.1 22.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#36

1,1-Dichloropropene

Concen: 49.344 ug/l

RT: 5.672 min Scan# 752

Delta R.T. -0.012 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

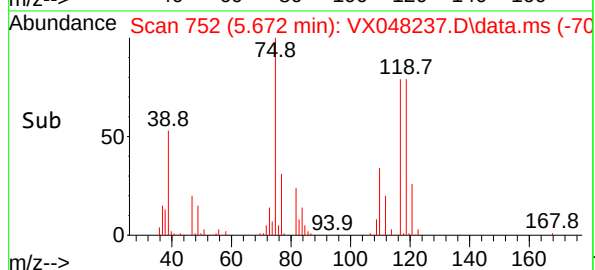
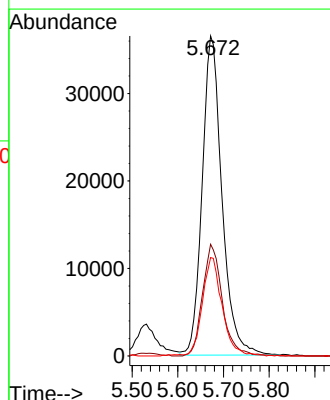
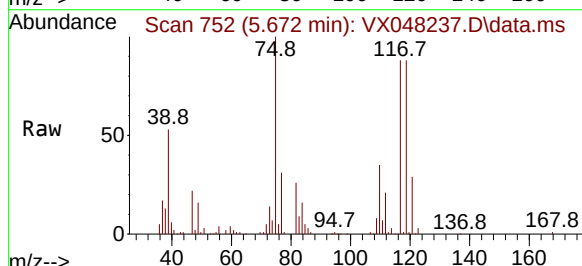
Tgt Ion: 75 Resp: 109957

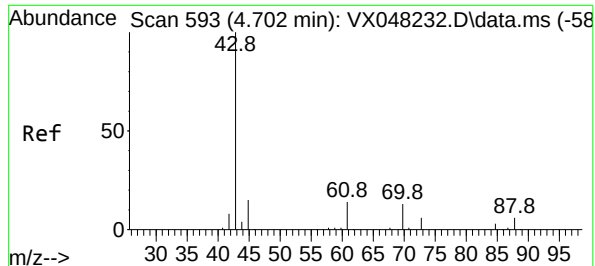
Ion Ratio Lower Upper

75 100

110 35.0 17.7 53.1

77 30.4 24.3 36.5





#37

Ethyl Acetate

Concen: 47.684 ug/l

RT: 4.690 min Scan# 591

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

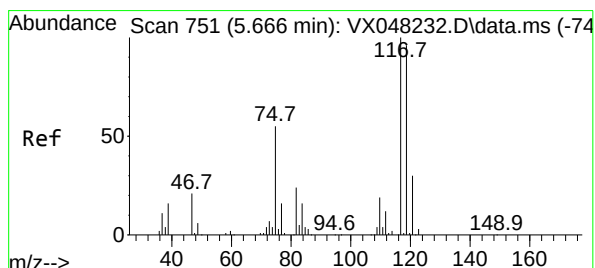
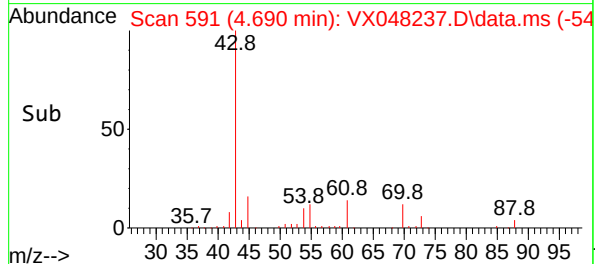
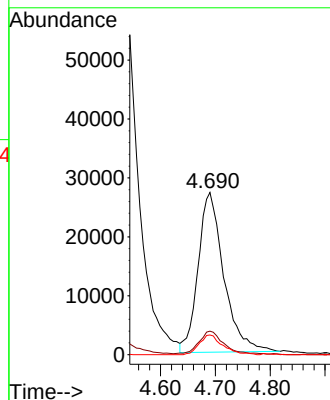
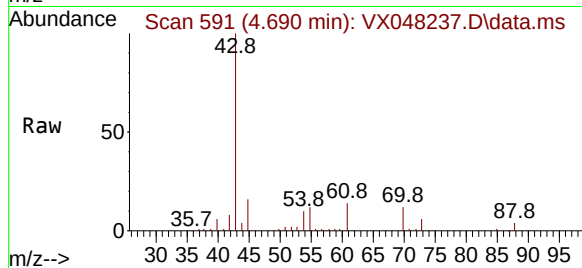
ICVX102025

Tgt Ion:	43	Resp:	88074
Ion	Ratio	Lower	Upper
43	100		
61	13.4	10.6	15.8
70	11.2	7.8	11.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#38

Carbon Tetrachloride

Concen: 48.228 ug/l

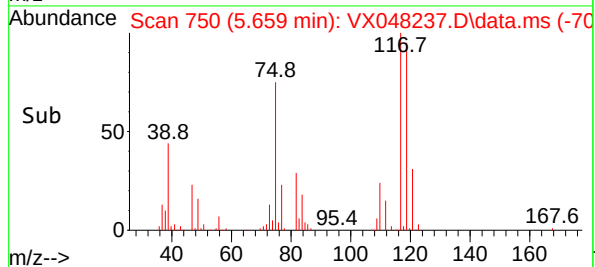
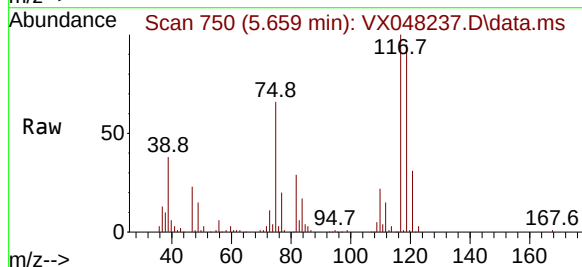
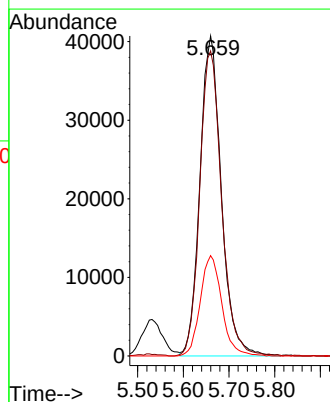
RT: 5.659 min Scan# 750

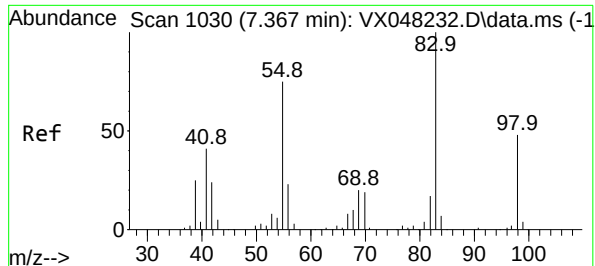
Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Tgt Ion:	117	Resp:	132590
Ion	Ratio	Lower	Upper
117	100		
119	95.1	77.2	115.8
121	31.4	24.8	37.2





#39

Methylcyclohexane

Concen: 52.670 ug/l

RT: 7.360 min Scan# 1029

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion: 83 Resp: 13861

Ion Ratio Lower Upper

83 100

55 74.6 66.2 99.2

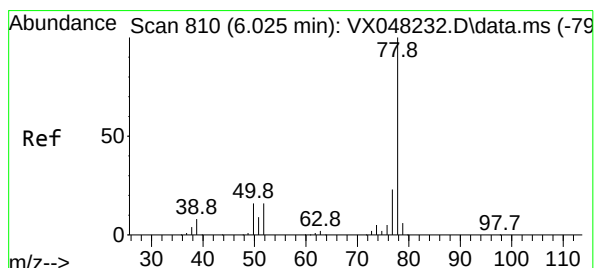
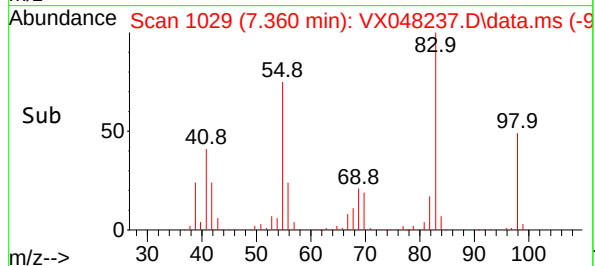
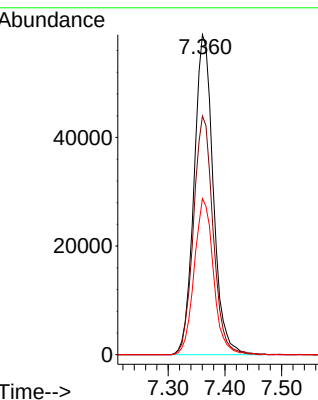
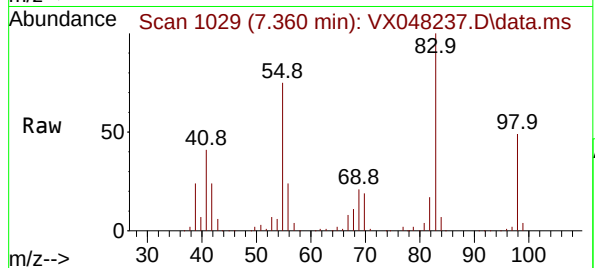
98 48.8 38.9 58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#40

Benzene

Concen: 50.241 ug/l

RT: 6.019 min Scan# 809

Delta R.T. -0.006 min

Lab File: VX048237.D

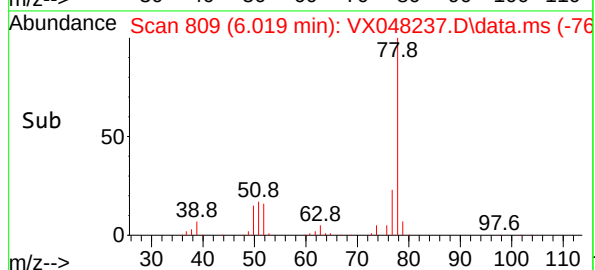
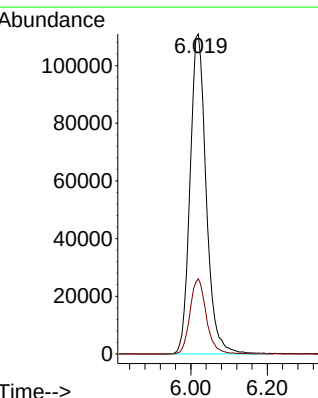
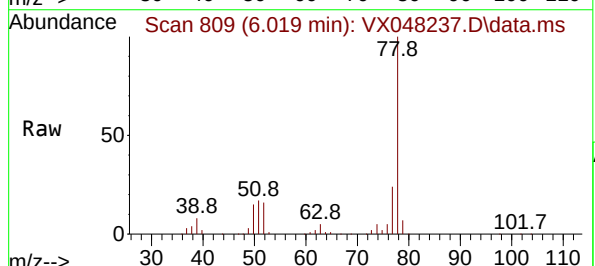
Acq: 20 Oct 2025 14:28

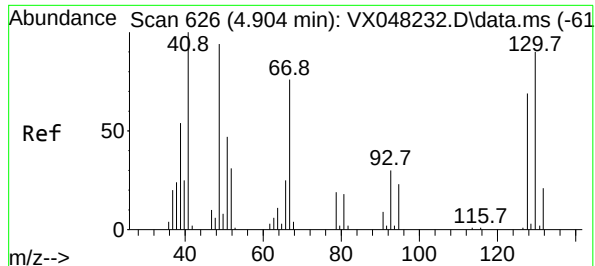
Tgt Ion: 78 Resp: 325041

Ion Ratio Lower Upper

78 100

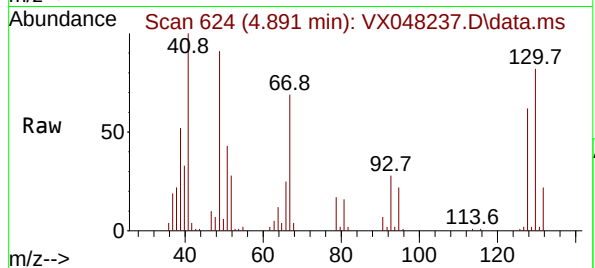
77 23.5 19.3 28.9





#41
Methacrylonitrile
Concen: 50.358 ug/l
RT: 4.891 min Scan# 61
Delta R.T. -0.012 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

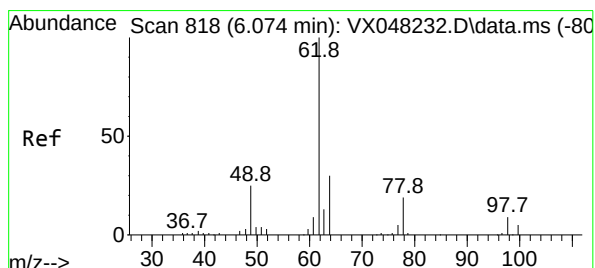
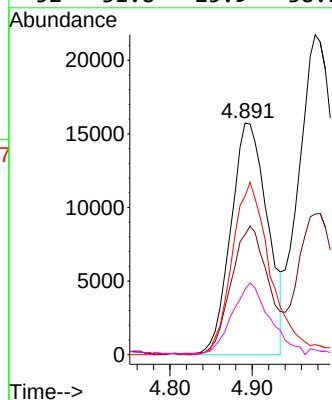
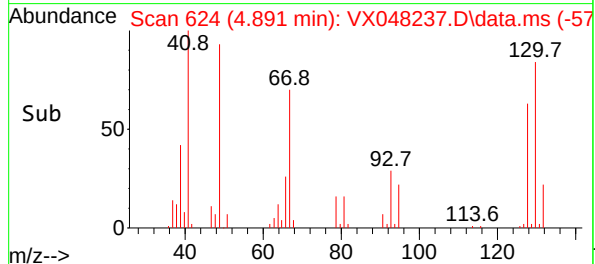
Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025



Tgt Ion: 41 Resp: 4884
Ion Ratio Lower Upper
41 100
39 57.6 44.0 66.0
67 80.7 58.7 88.1
52 31.8 25.9 38.9

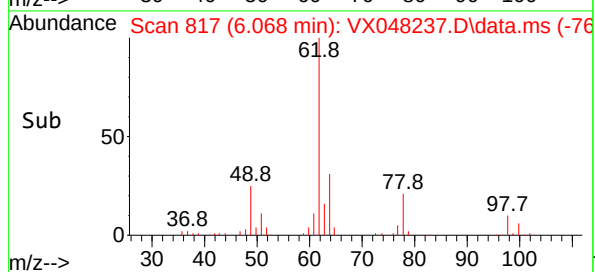
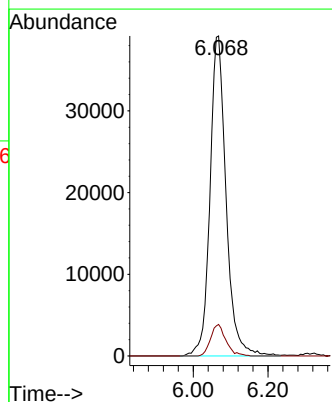
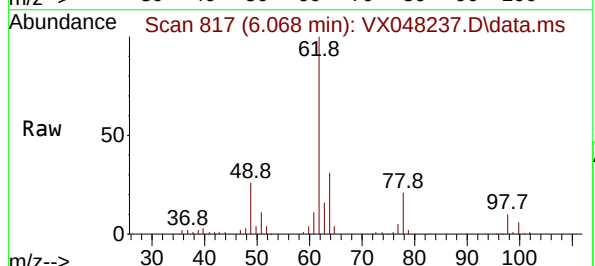
Manual Integrations
APPROVED

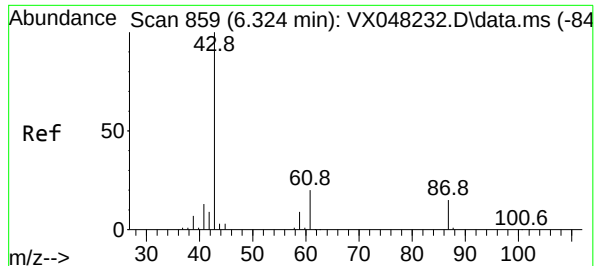
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#42
1,2-Dichloroethane
Concen: 48.963 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 62 Resp: 116893
Ion Ratio Lower Upper
62 100
98 9.4 0.0 17.2





#43

Isopropyl Acetate

Concen: 49.816 ug/l

RT: 6.318 min Scan# 858

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

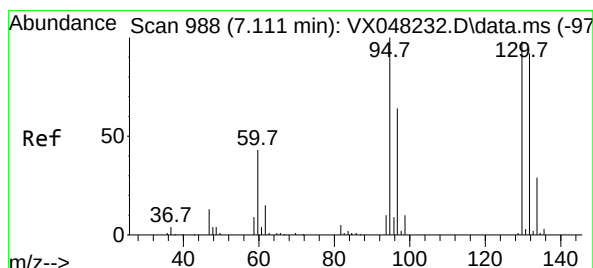
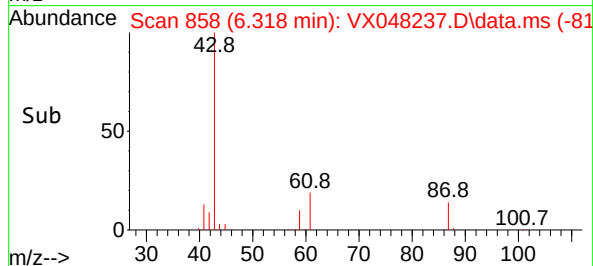
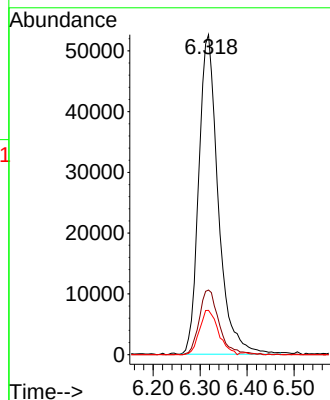
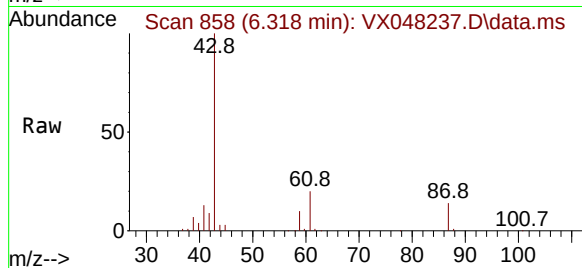
ICVX102025

Tgt Ion: 43 Resp: 151140
Ion Ratio Lower Upper
43 100
61 20.7 14.9 22.3
87 13.5 9.4 14.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#44

Trichloroethene

Concen: 50.582 ug/l

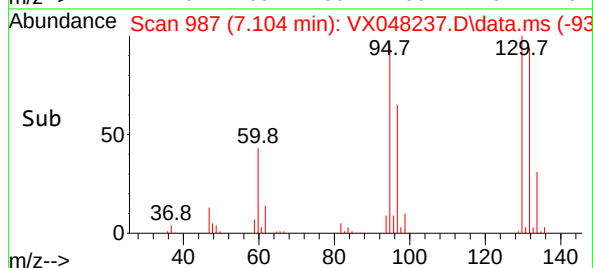
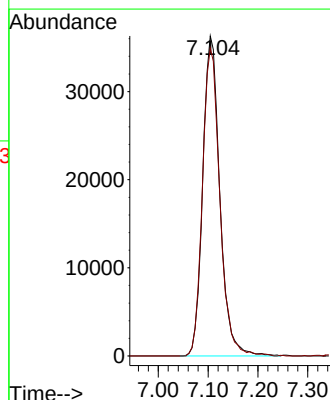
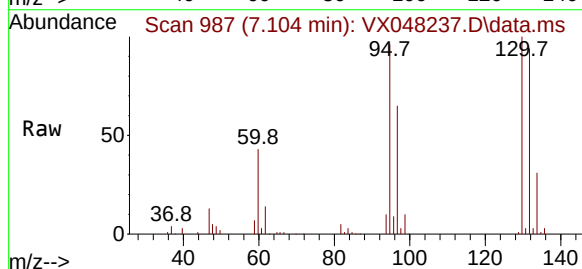
RT: 7.104 min Scan# 987

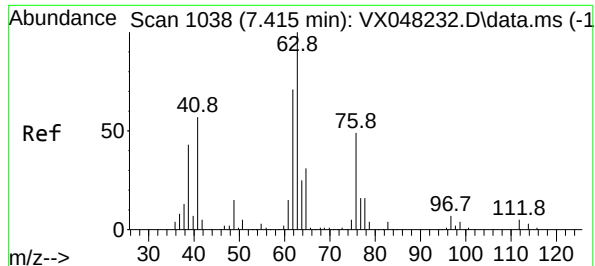
Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Tgt Ion:130 Resp: 86410
Ion Ratio Lower Upper
130 100
95 96.2 0.0 200.6





#45

1,2-Dichloropropane

Concen: 50.994 ug/l

RT: 7.409 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion: 63 Resp: 78439

Ion Ratio Lower Upper

63 100

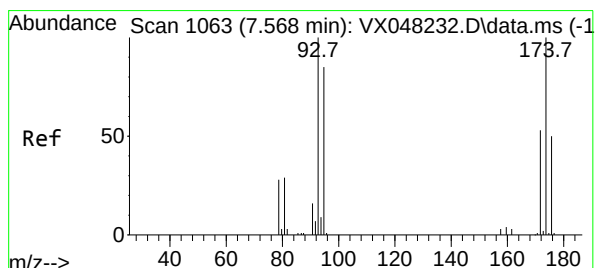
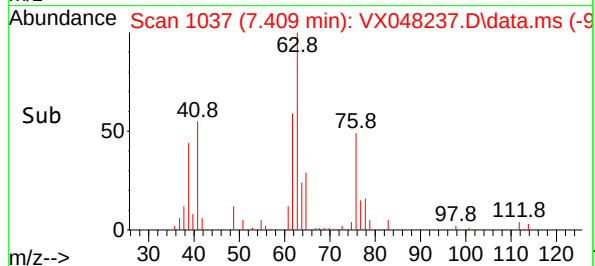
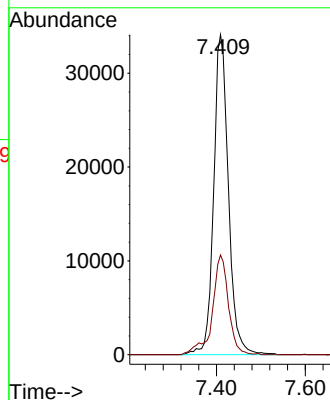
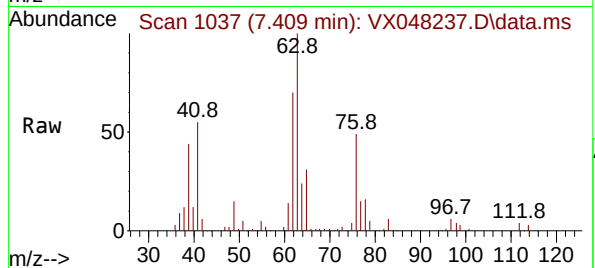
65 31.1 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#46

Dibromomethane

Concen: 48.913 ug/l

RT: 7.562 min Scan# 1062

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

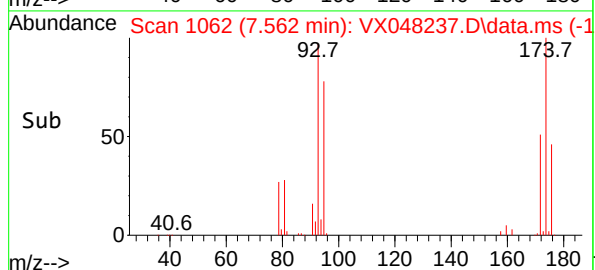
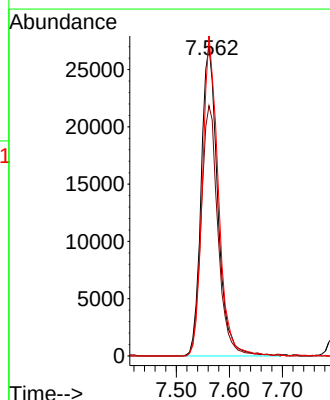
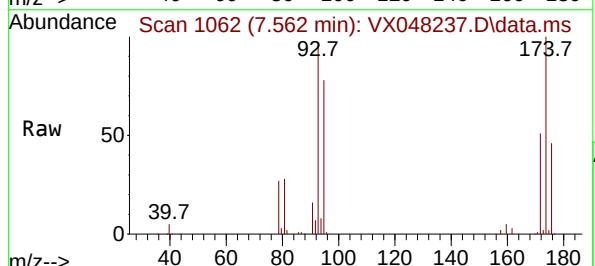
Tgt Ion: 93 Resp: 58616

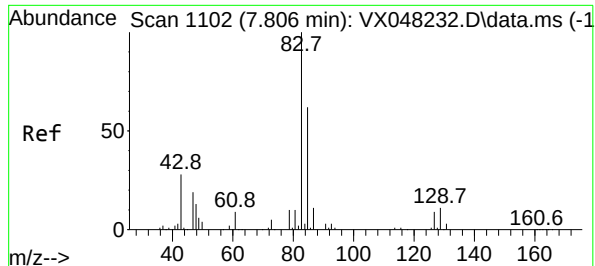
Ion Ratio Lower Upper

93 100

95 81.4 65.9 98.9

174 99.2 71.7 107.5





#47

Bromodichloromethane

Concen: 48.459 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion: 83 Resp: 12538

Ion Ratio Lower Upper

83 100

85 64.7 52.2 78.4

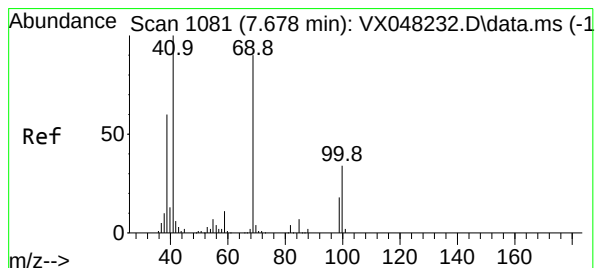
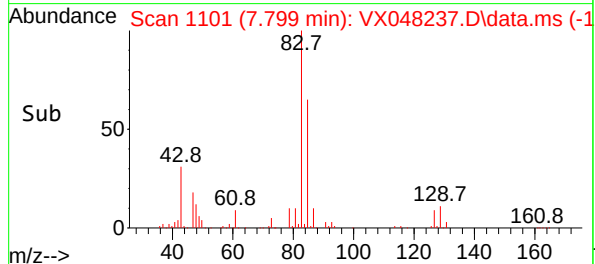
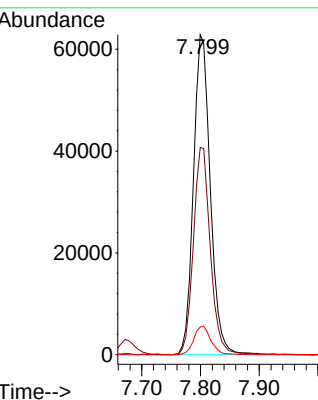
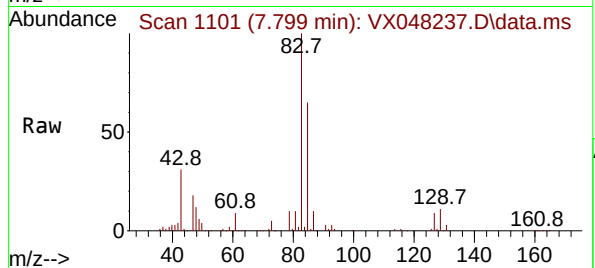
127 8.7 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#48

Methyl methacrylate

Concen: 49.519 ug/l

RT: 7.671 min Scan# 1080

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

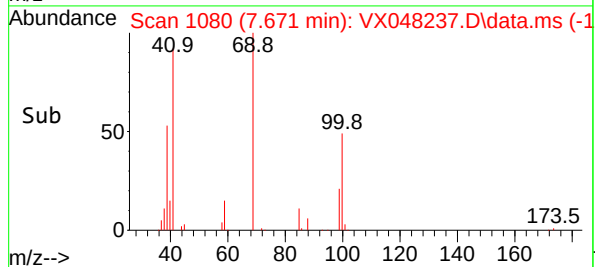
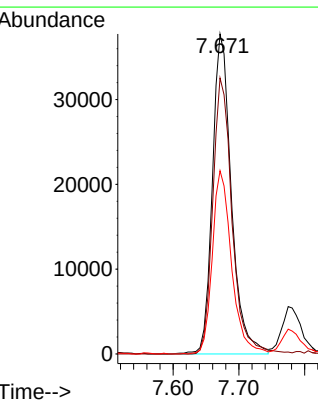
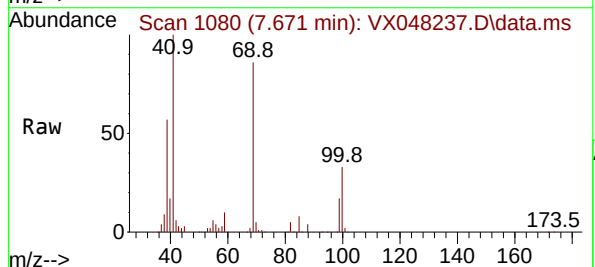
Tgt Ion: 41 Resp: 75812

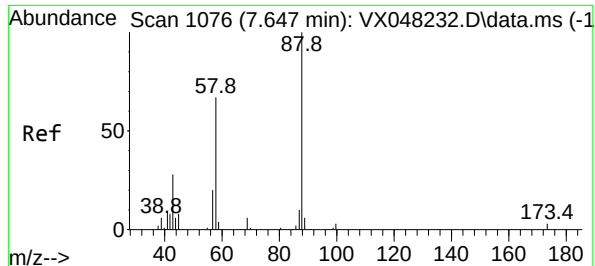
Ion Ratio Lower Upper

41 100

69 87.7 63.4 95.0

39 58.0 47.1 70.7





#49

1,4-Dioxane

Concen: 1000.197 ug/l

RT: 7.635 min Scan# 1076

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

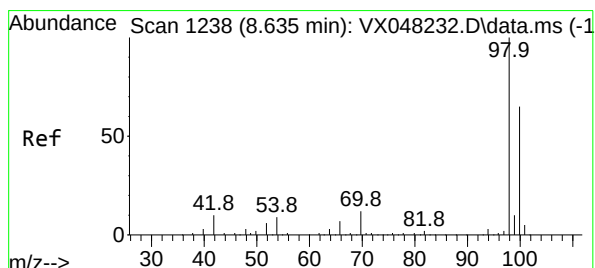
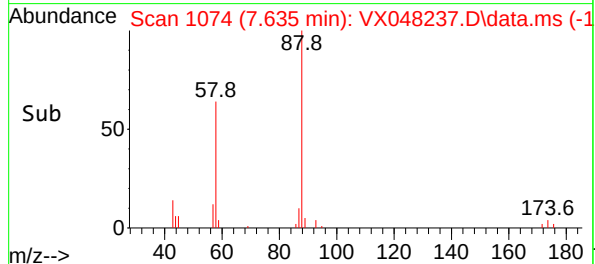
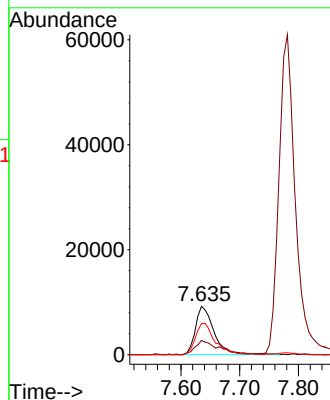
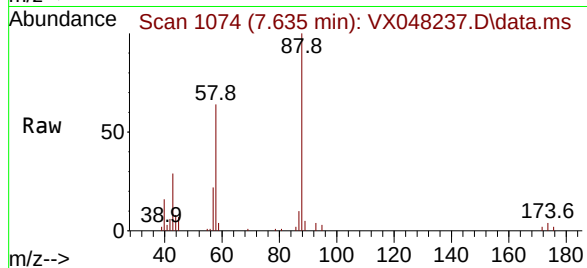
ICVX102025

Tgt Ion:	88	Resp:	20230
Ion	Ratio	Lower	Upper
88	100		
43	37.8	35.0	52.4
58	67.9	61.9	92.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#50

Toluene-d8

Concen: 48.386 ug/l

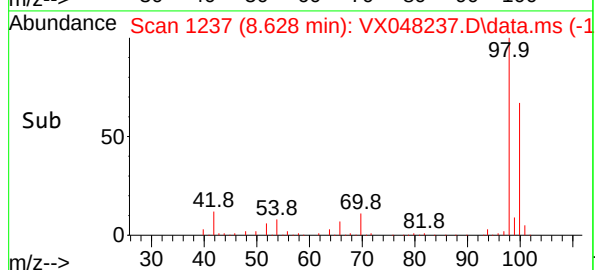
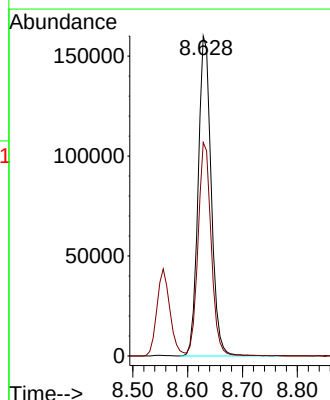
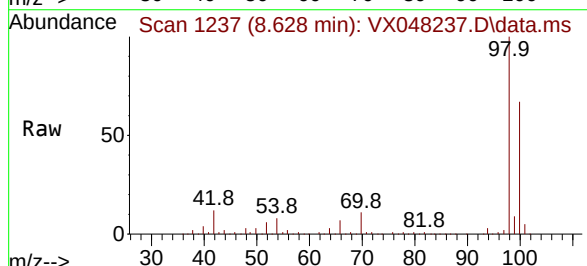
RT: 8.628 min Scan# 1237

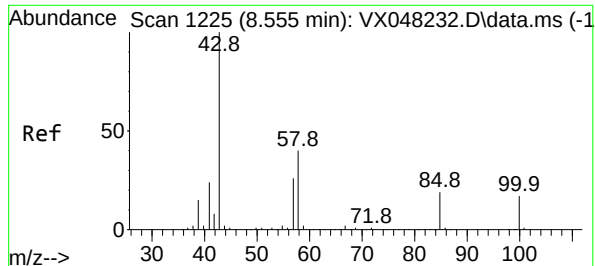
Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Tgt Ion:	98	Resp:	265898
Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.0	79.4





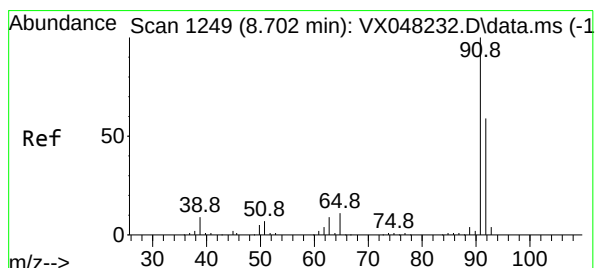
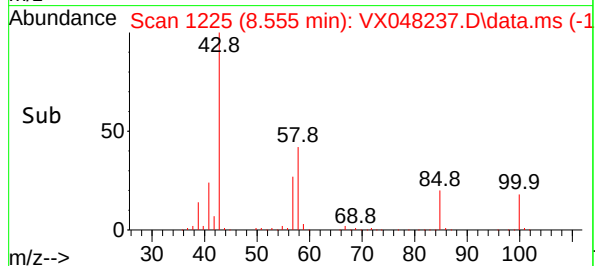
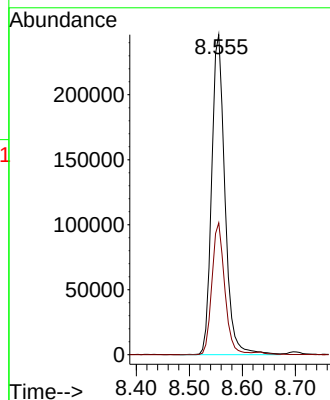
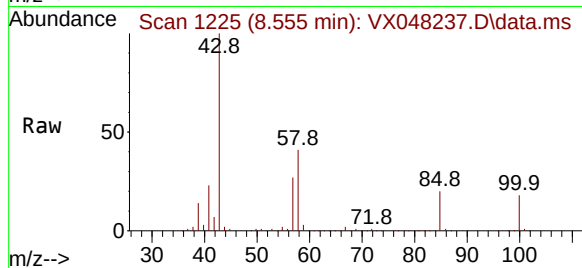
#51
4-Methyl-2-Pentanone
Concen: 244.897 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVX102025

Tgt Ion: 43 Resp: 42839
Ion Ratio Lower Upper
43 100
58 39.9 29.5 44.3

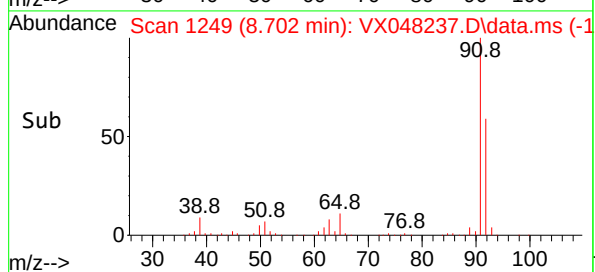
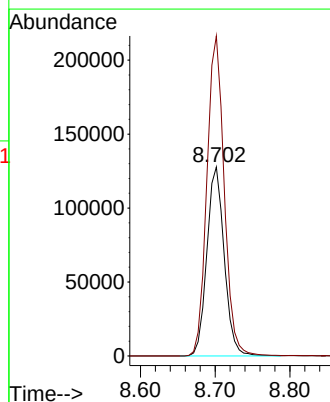
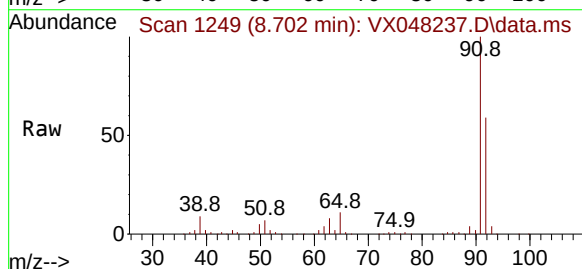
Manual Integrations
APPROVED

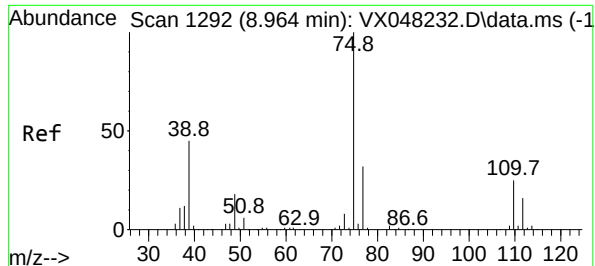
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#52
Toluene
Concen: 50.088 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 92 Resp: 205867
Ion Ratio Lower Upper
92 100
91 169.0 136.1 204.1





#53

t-1,3-Dichloropropene

Concen: 50.004 ug/l

RT: 8.958 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVXX102025

Tgt Ion: 75 Resp: 12468

Ion Ratio Lower Upper

75 100

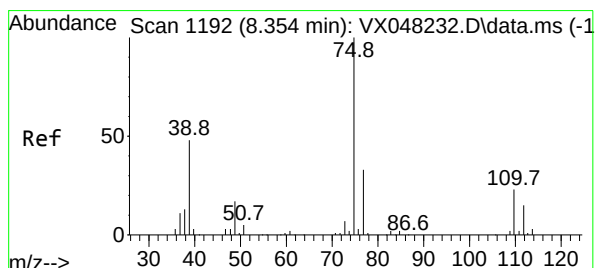
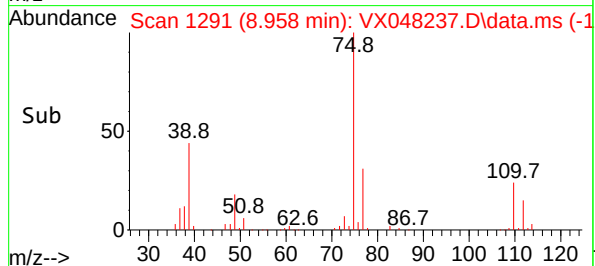
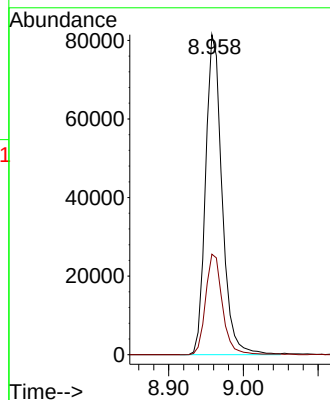
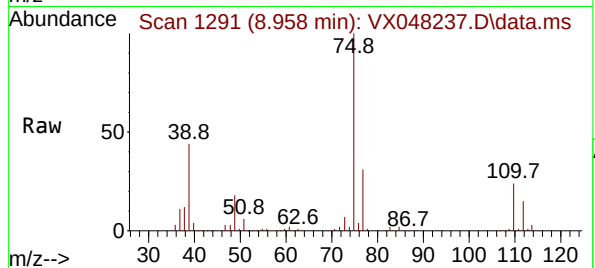
77 31.4 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#54

cis-1,3-Dichloropropene

Concen: 49.944 ug/l

RT: 8.348 min Scan# 1191

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

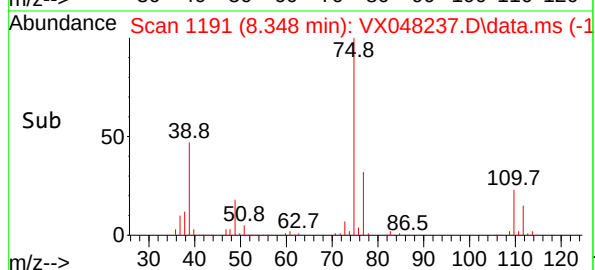
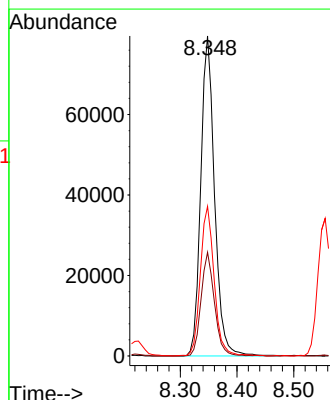
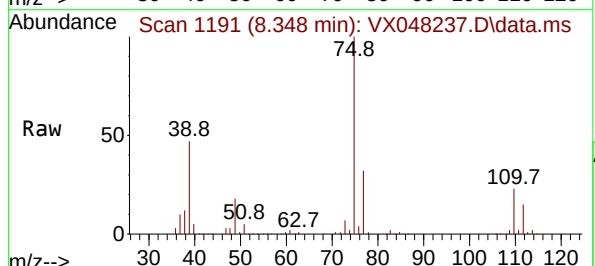
Tgt Ion: 75 Resp: 134360

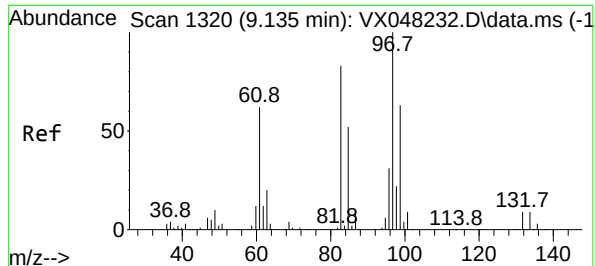
Ion Ratio Lower Upper

75 100

77 32.4 24.9 37.3

39 46.7 42.6 64.0





#55

1,1,2-Trichloroethane

Concen: 49.597 ug/l

RT: 9.134 min Scan# 1320

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion: 97 Resp: 7580

Ion Ratio Lower Upper

97 100

83 85.5 70.6 105.8

85 53.9 45.0 67.6

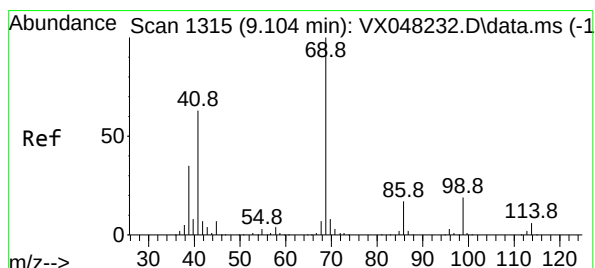
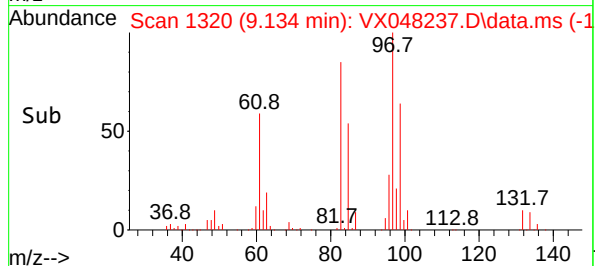
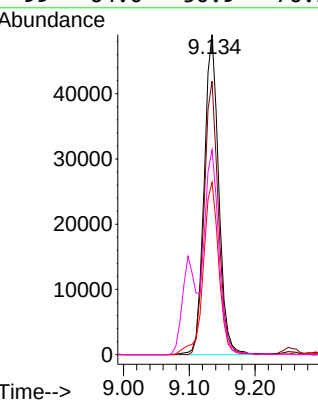
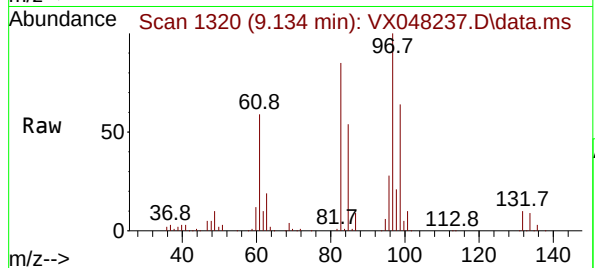
99 64.0 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#56

Ethyl methacrylate

Concen: 49.964 ug/l

RT: 9.098 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

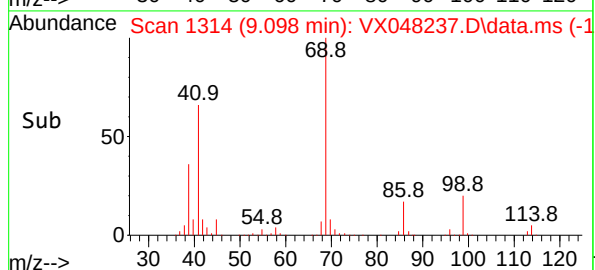
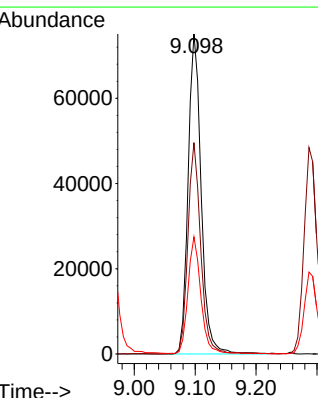
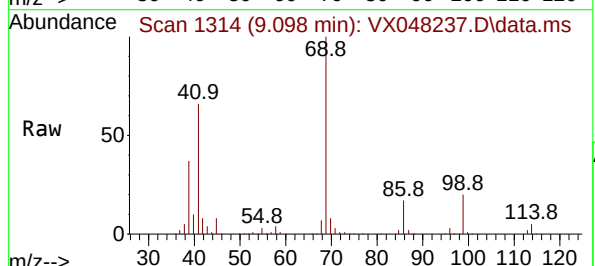
Tgt Ion: 69 Resp: 111702

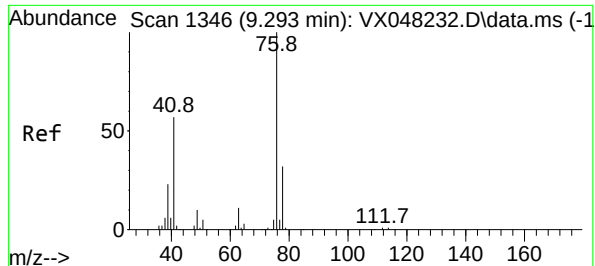
Ion Ratio Lower Upper

69 100

41 65.1 56.0 84.0

39 36.0 31.6 47.4





#57

1,3-Dichloropropane

Concen: 49.226 ug/l

RT: 9.287 min Scan# 1170

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion: 76 Resp: 128519

Ion Ratio Lower Upper

76 100

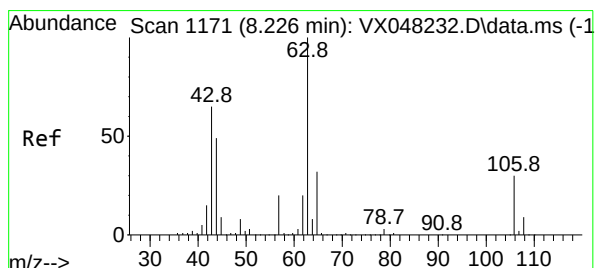
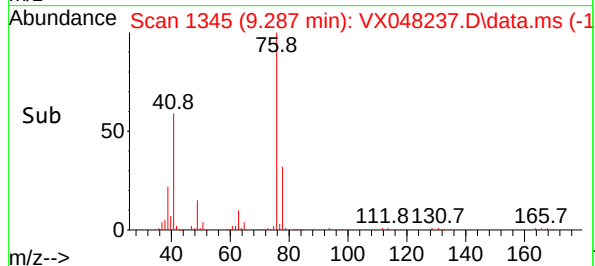
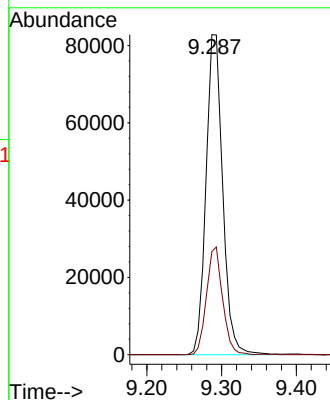
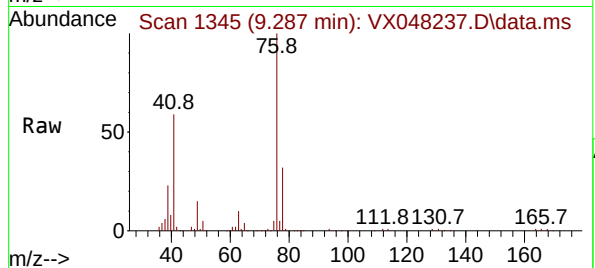
78 32.4 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#58

2-Chloroethyl Vinyl ether

Concen: 242.124 ug/l

RT: 8.220 min Scan# 1170

Delta R.T. -0.006 min

Lab File: VX048237.D

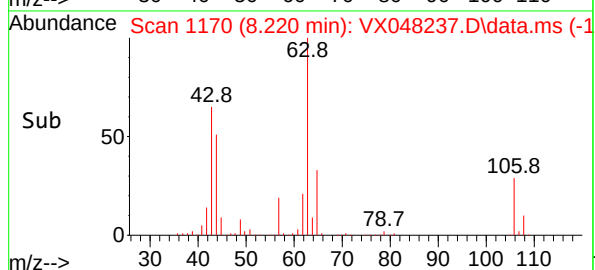
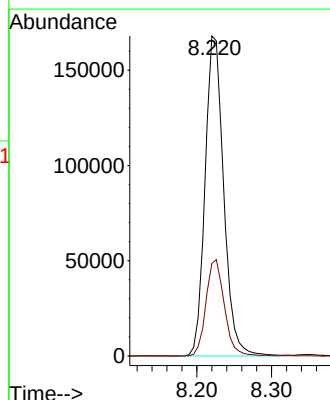
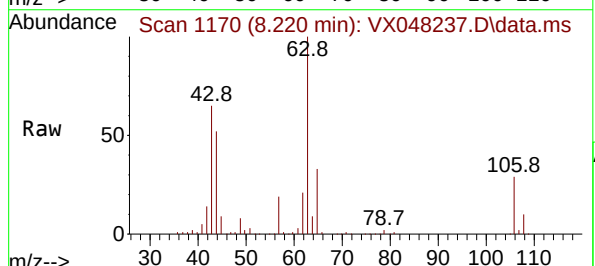
Acq: 20 Oct 2025 14:28

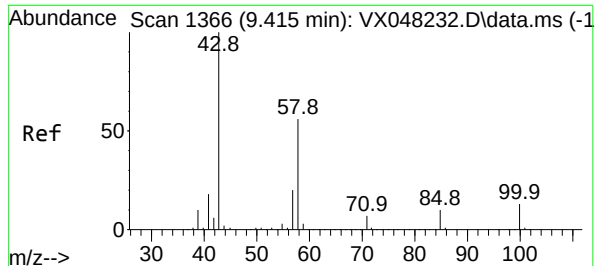
Tgt Ion: 63 Resp: 290992

Ion Ratio Lower Upper

63 100

106 29.6 22.2 33.2





#59

2-Hexanone

Concen: 246.102 ug/l

RT: 9.409 min Scan# 1365

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion: 43 Resp: 30018

Ion Ratio Lower Upper

43 100

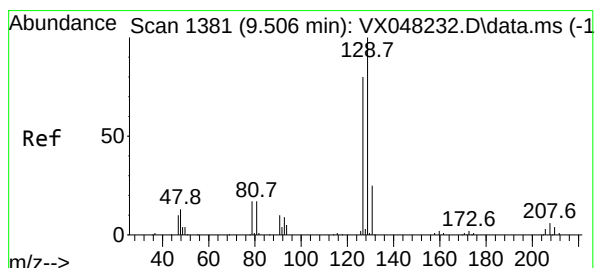
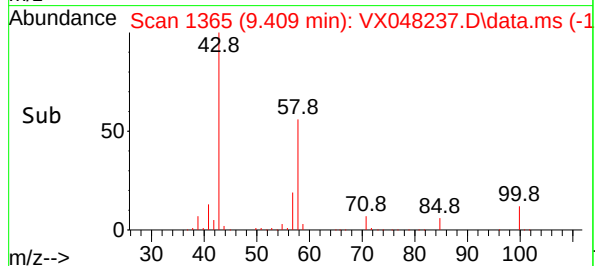
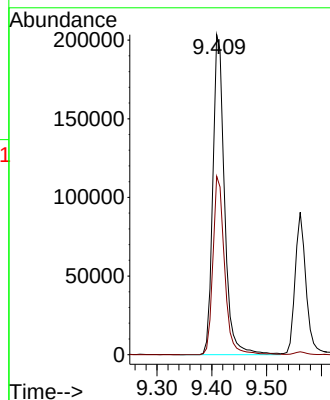
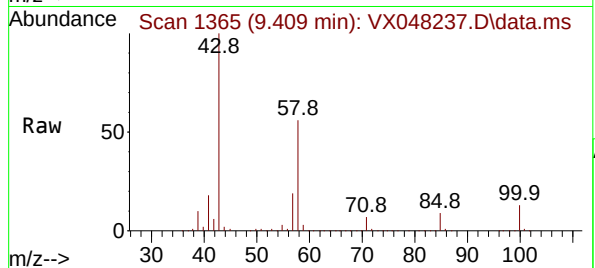
58 55.6 26.3 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#60

Dibromochloromethane

Concen: 47.530 ug/l

RT: 9.500 min Scan# 1380

Delta R.T. -0.006 min

Lab File: VX048237.D

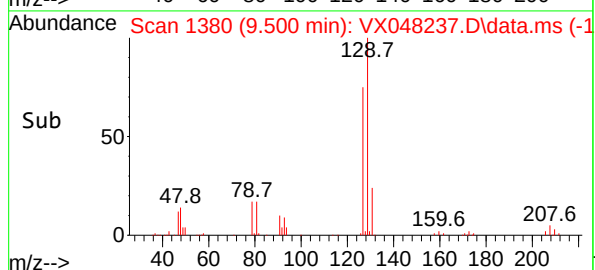
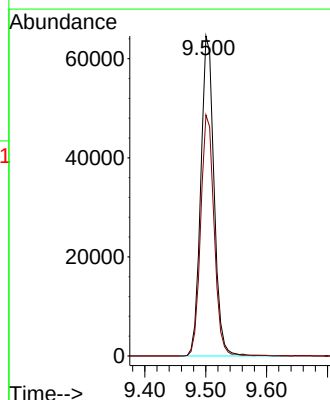
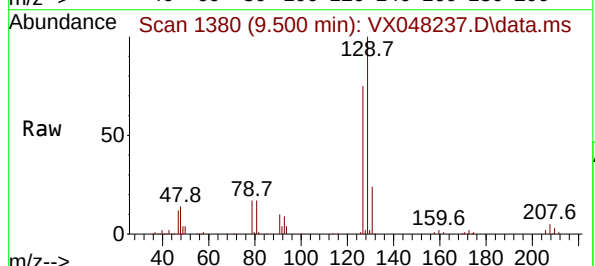
Acq: 20 Oct 2025 14:28

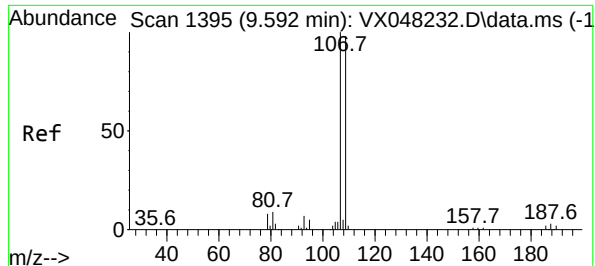
Tgt Ion:129 Resp: 97643

Ion Ratio Lower Upper

129 100

127 76.2 38.6 115.7





#61

1,2-Dibromoethane

Concen: 49.319 ug/l

RT: 9.592 min Scan# 1395

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion:107 Resp: 8036

Ion Ratio Lower Upper

107 100

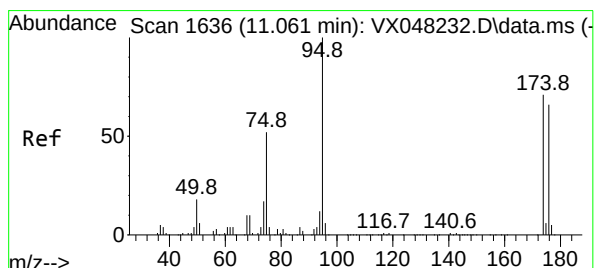
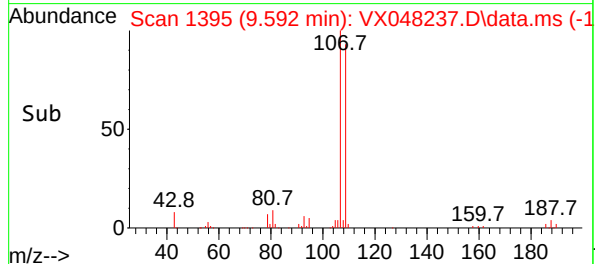
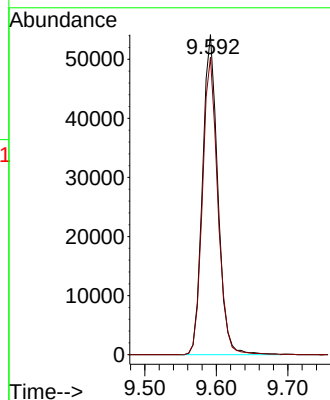
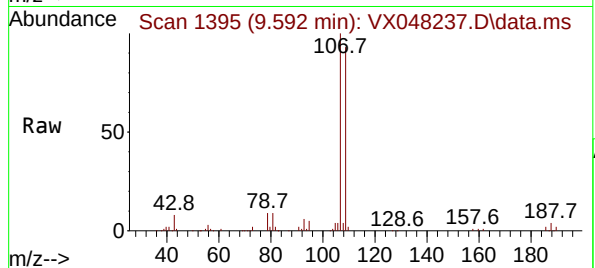
109 93.1 77.0 115.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#62

4-Bromofluorobenzene

Concen: 46.795 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

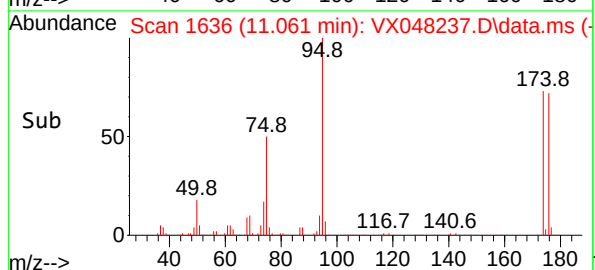
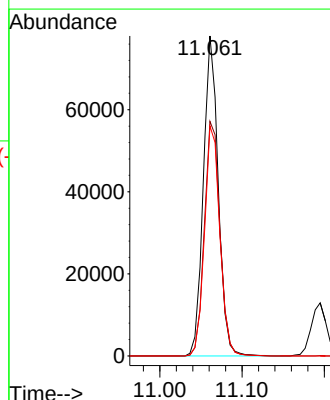
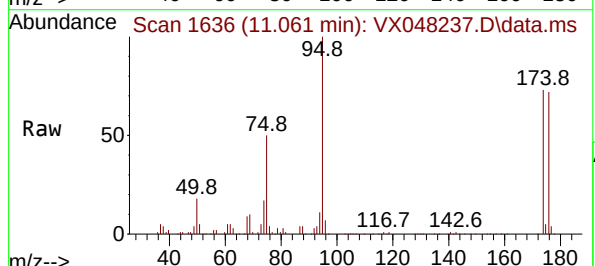
Tgt Ion: 95 Resp: 97828

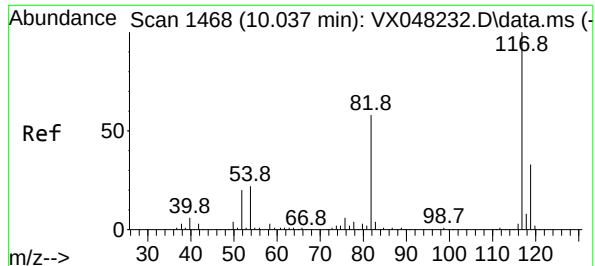
Ion Ratio Lower Upper

95 100

174 77.0 0.0 147.8

176 74.2 0.0 142.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

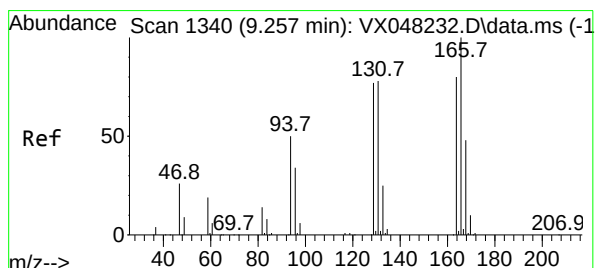
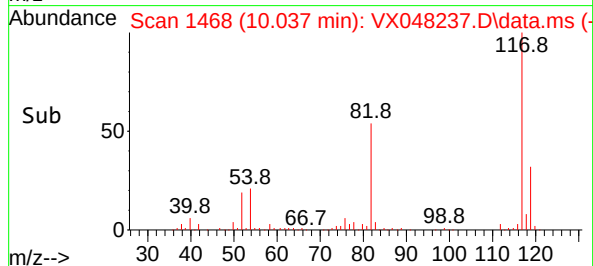
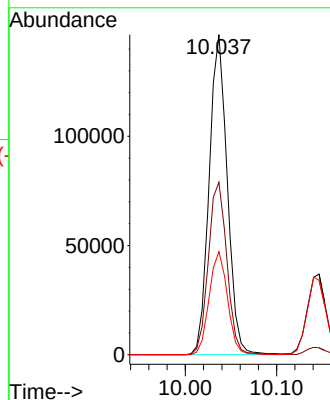
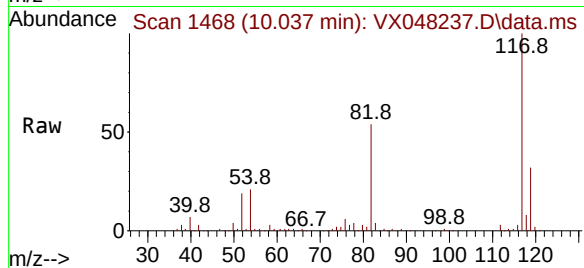
ICVVX102025

Tgt Ion:	117	Resp:	20139
Ion	Ratio	Lower	Upper
117	100		
82	53.9	46.5	69.7
119	32.2	25.9	38.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#64

Tetrachloroethene

Concen: 48.686 ug/l

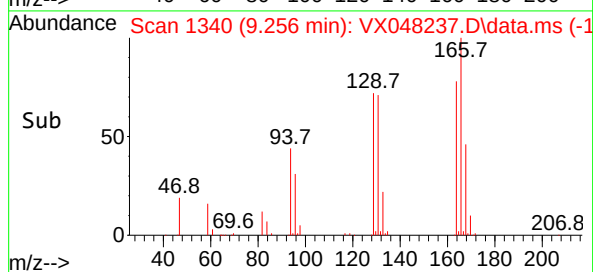
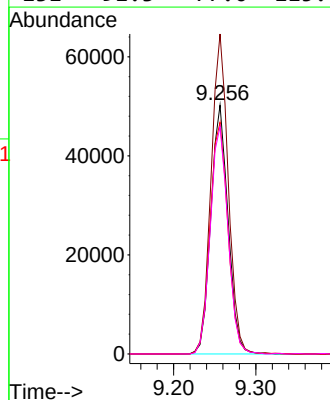
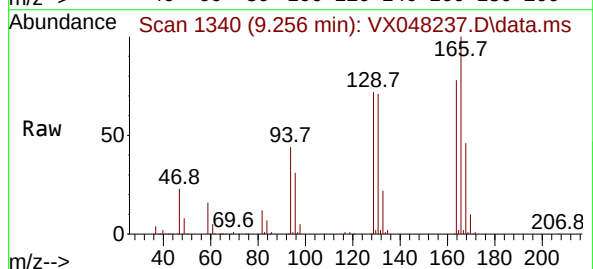
RT: 9.256 min Scan# 1340

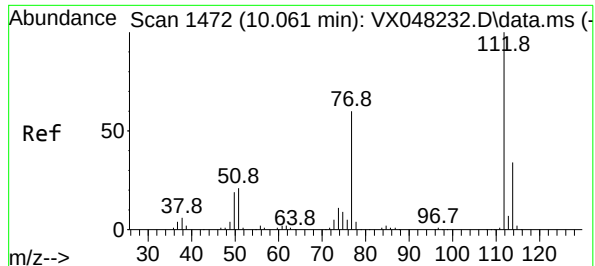
Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Tgt Ion:	164	Resp:	73198
Ion	Ratio	Lower	Upper
164	100		
166	128.6	104.5	156.7
129	93.1	81.8	122.6
131	91.3	77.0	115.6





#65

Chlorobenzene

Concen: 50.095 ug/l

RT: 10.061 min Scan# 1472

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion:112 Resp: 22695

Ion Ratio Lower Upper

112 100

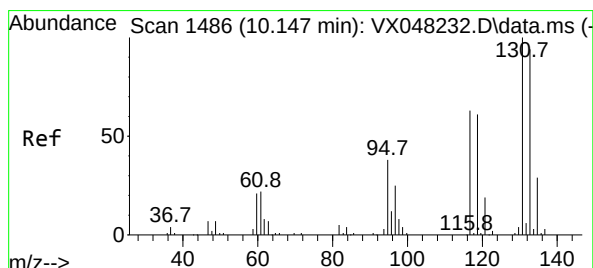
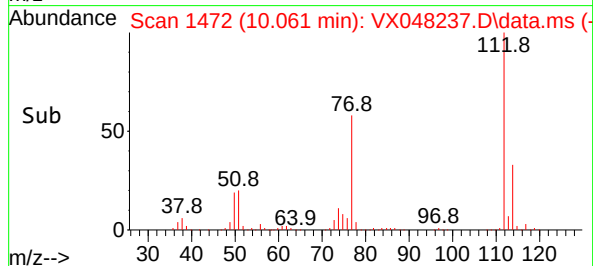
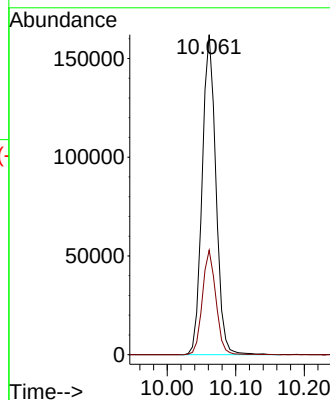
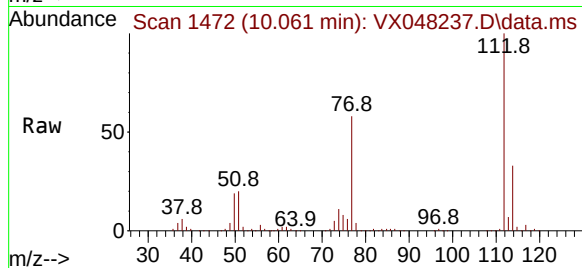
114 32.6 26.2 39.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 49.014 ug/l

RT: 10.140 min Scan# 1485

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

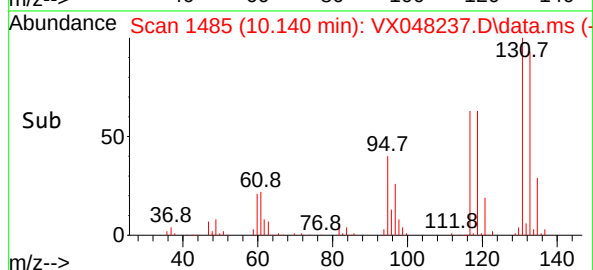
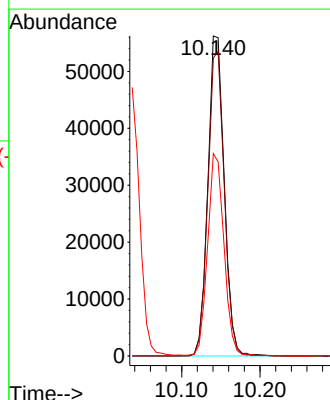
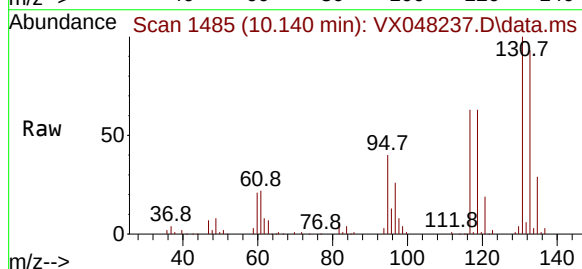
Tgt Ion:131 Resp: 81561

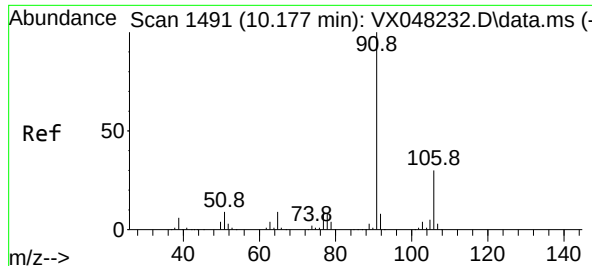
Ion Ratio Lower Upper

131 100

133 95.2 47.6 142.8

119 63.3 32.5 97.5





#67

Ethyl Benzene

Concen: 50.798 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion: 91 Resp: 391830

Ion Ratio Lower Upper

91 100

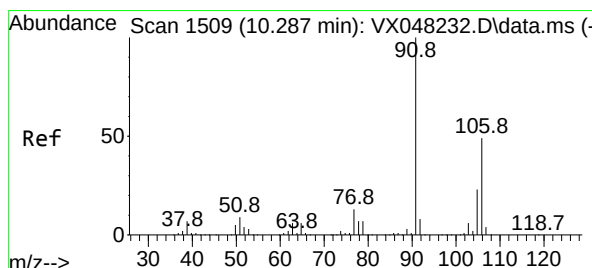
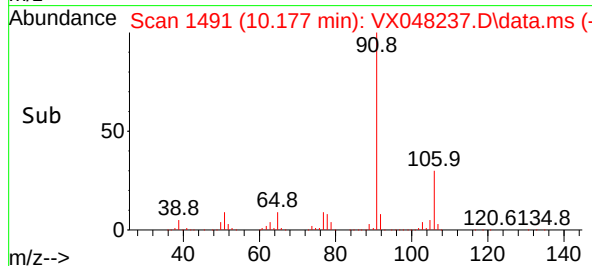
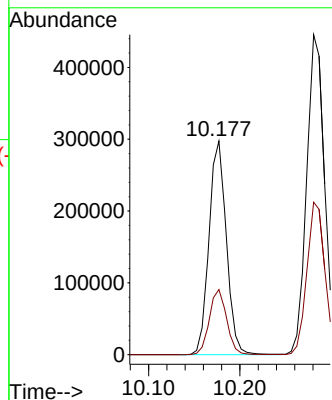
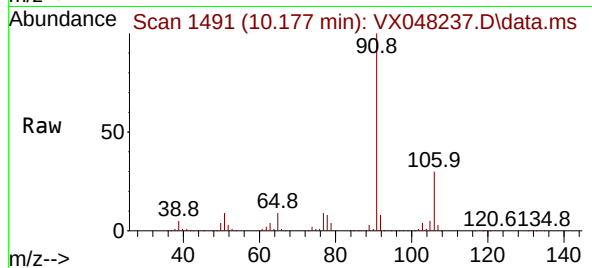
106 30.5 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#68

m/p-Xylenes

Concen: 102.416 ug/l

RT: 10.281 min Scan# 1508

Delta R.T. -0.006 min

Lab File: VX048237.D

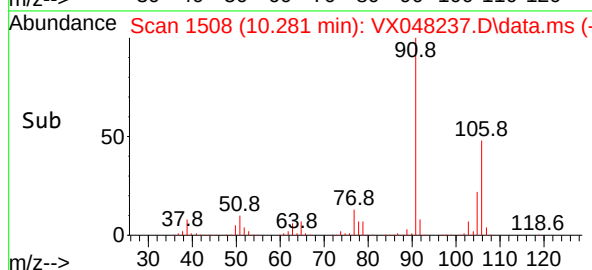
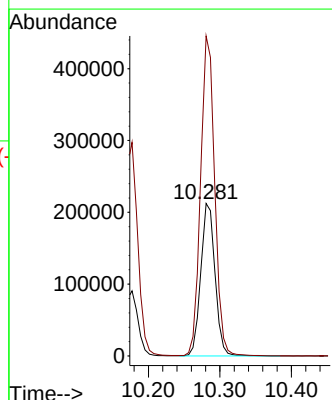
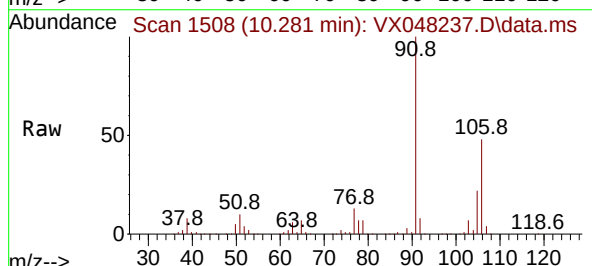
Acq: 20 Oct 2025 14:28

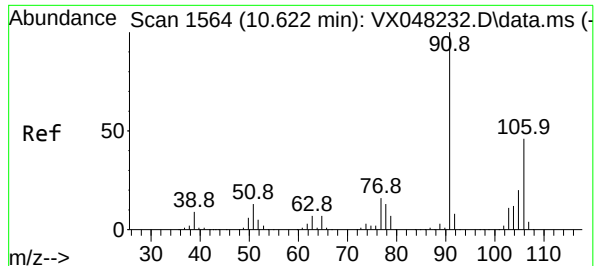
Tgt Ion:106 Resp: 293516

Ion Ratio Lower Upper

106 100

91 208.2 167.9 251.9





#69

o-Xylene

Concen: 50.424 ug/l

RT: 10.622 min Scan# 1564

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion:106 Resp: 13951

Ion Ratio Lower Upper

106 100

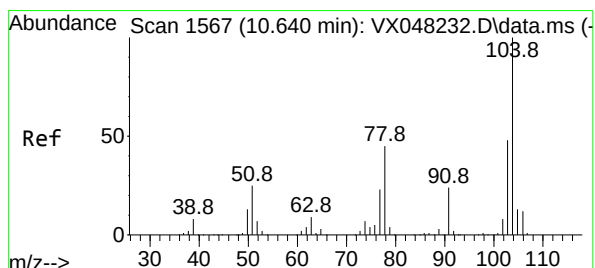
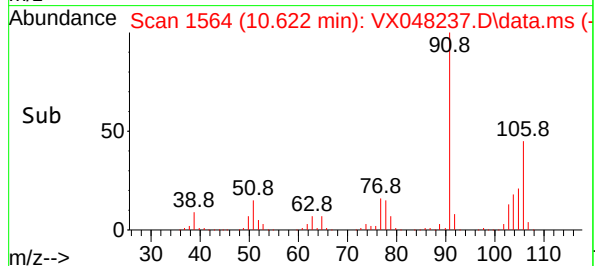
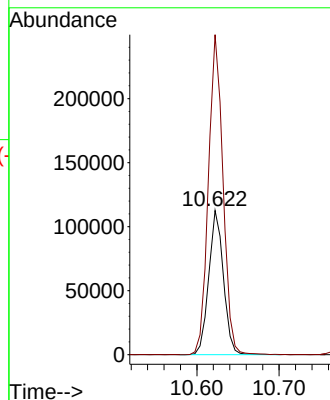
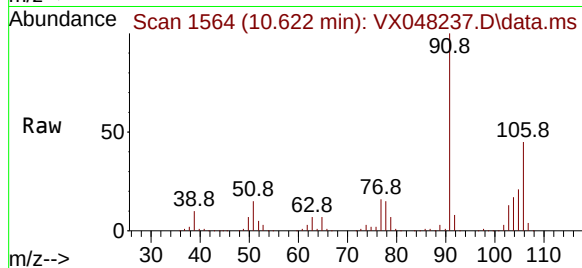
91 221.1 111.3 333.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#70

Styrene

Concen: 51.651 ug/l

RT: 10.634 min Scan# 1566

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

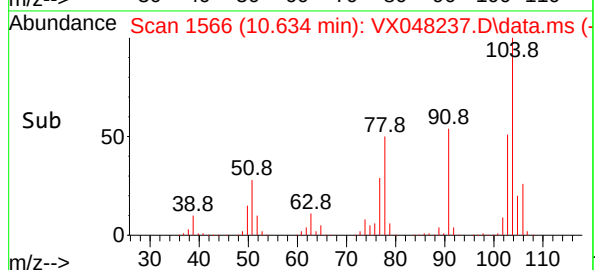
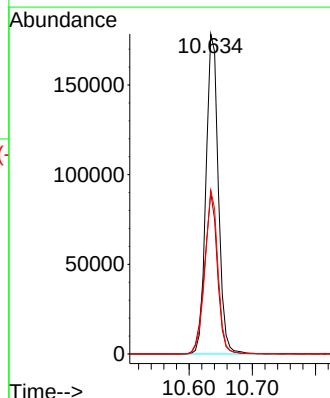
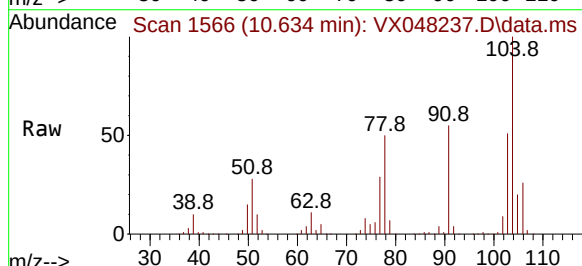
Tgt Ion:104 Resp: 243341

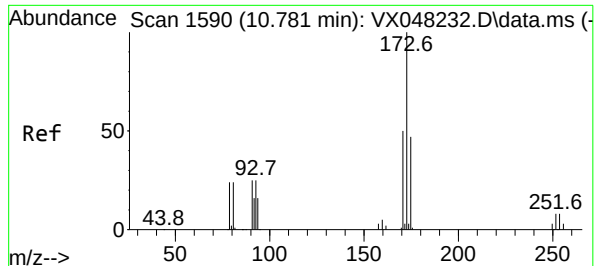
Ion Ratio Lower Upper

104 100

78 52.8 42.2 63.4

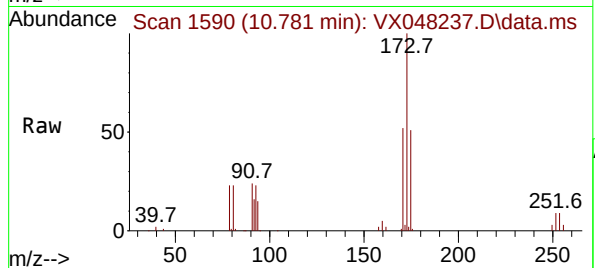
103 53.8 43.0 64.4





#71
Bromoform
Concen: 48.250 ug/l
RT: 10.781 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

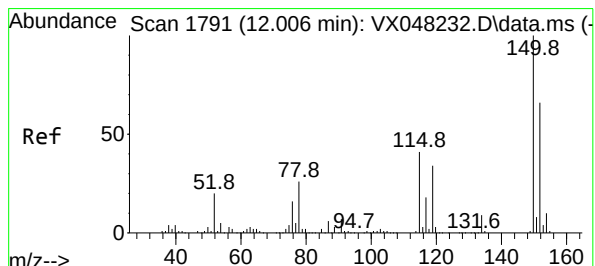
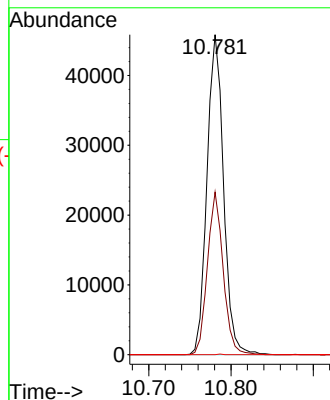
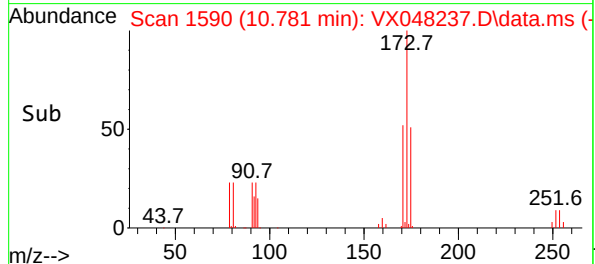
Instrument :
MSVOA_X
ClientSampleId :
ICVX102025



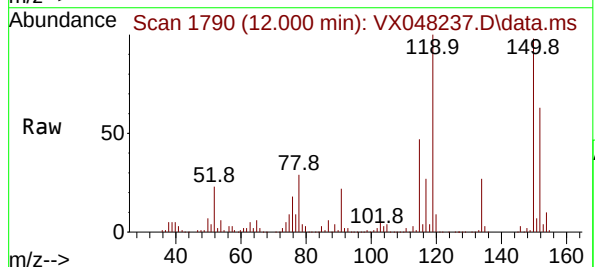
Tgt Ion:173 Resp: 64170
Ion Ratio Lower Upper
173 100
175 48.3 24.0 72.0
254 0.1 0.0 0.0

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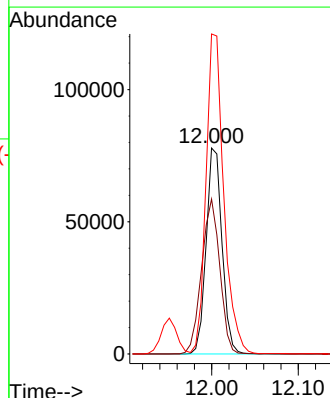
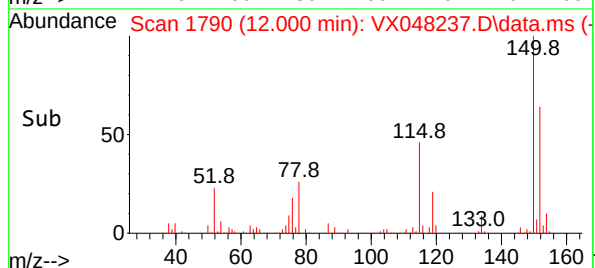
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025

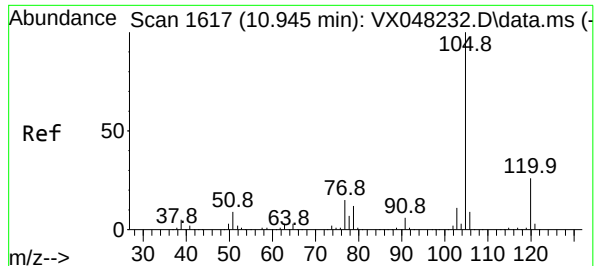


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.000 min Scan# 1790
Delta R.T. -0.006 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28



Tgt Ion:152 Resp: 99108
Ion Ratio Lower Upper
152 100
115 86.2 43.1 129.4
150 173.4 0.0 353.0





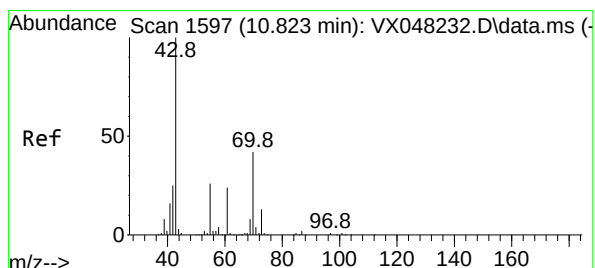
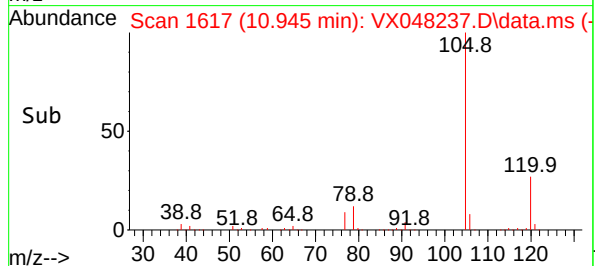
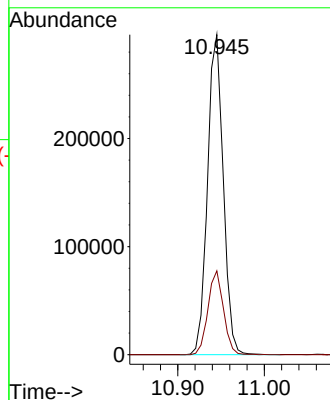
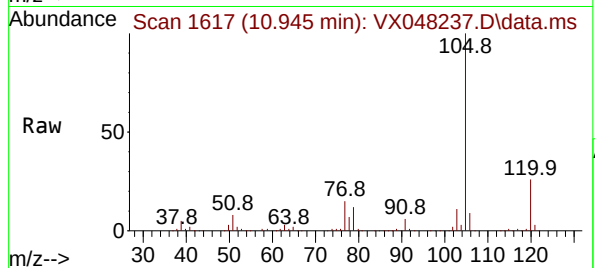
#73
Isopropylbenzene
Concen: 51.658 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVX102025

Tgt Ion:105 Resp: 37394
Ion Ratio Lower Upper
105 100
120 25.8 13.0 38.9

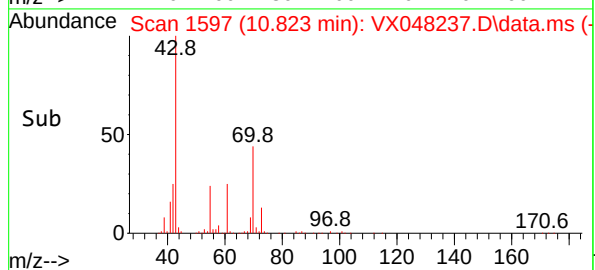
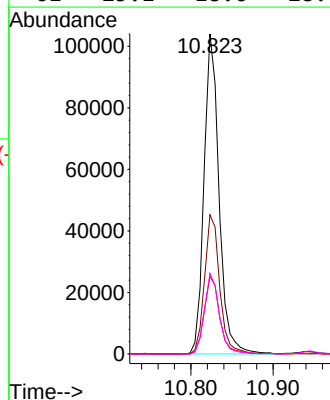
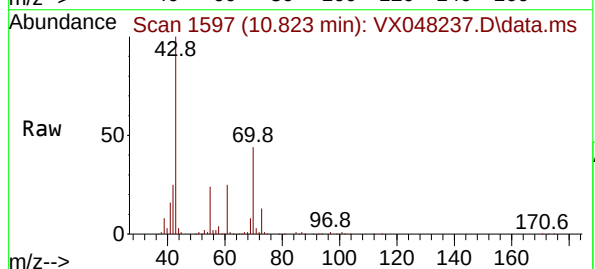
Manual Integrations
APPROVED

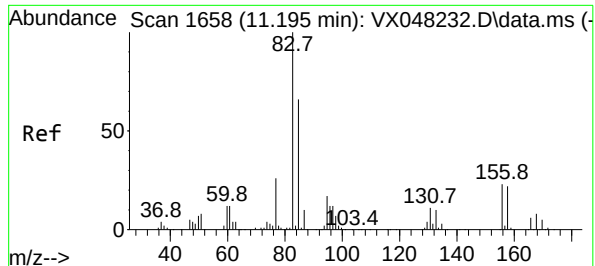
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#74
N-ethyl acetate
Concen: 51.399 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 43 Resp: 131979
Ion Ratio Lower Upper
43 100
70 44.1 32.2 48.2
55 25.0 19.1 28.7
61 25.1 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 49.936 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

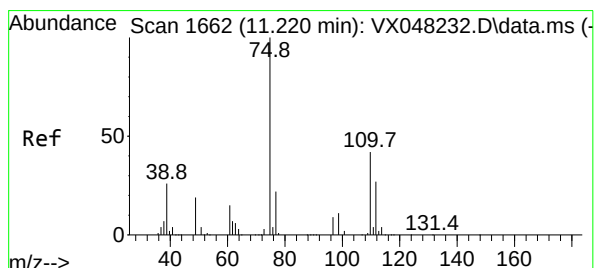
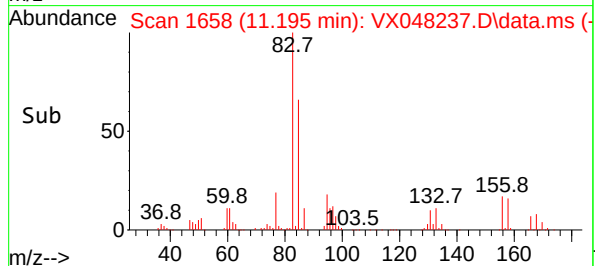
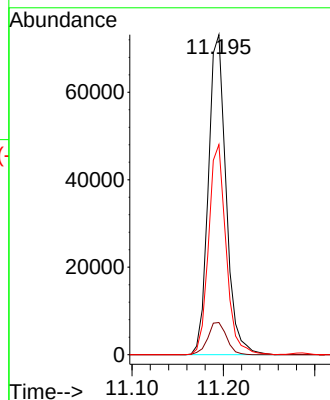
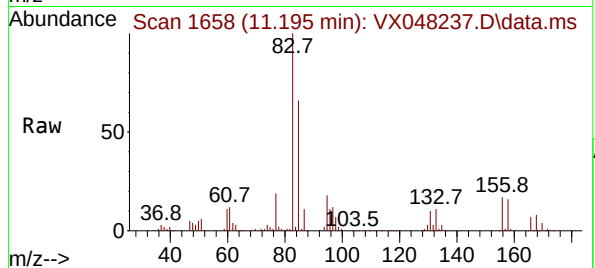
Tgt Ion:	83	Resp:	9871
Ion	Ratio	Lower	Upper
83	100		
131	10.6	4.8	14.4
85	64.8	31.9	95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#76

1,2,3-Trichloropropane

Concen: 50.456 ug/l m

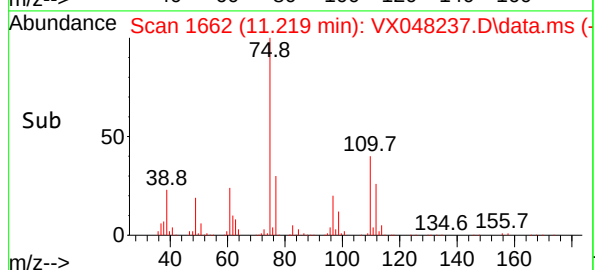
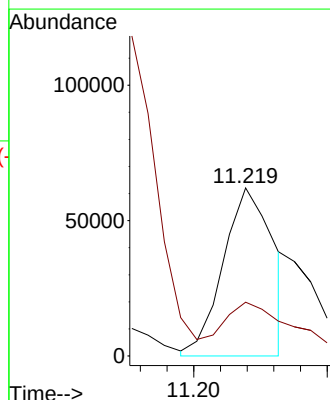
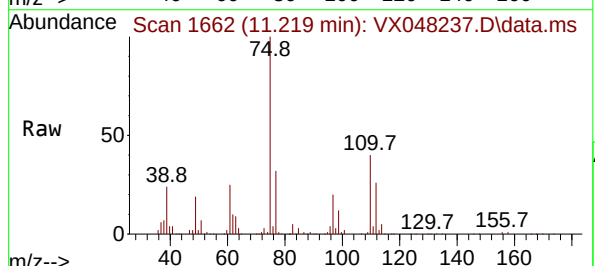
RT: 11.219 min Scan# 1662

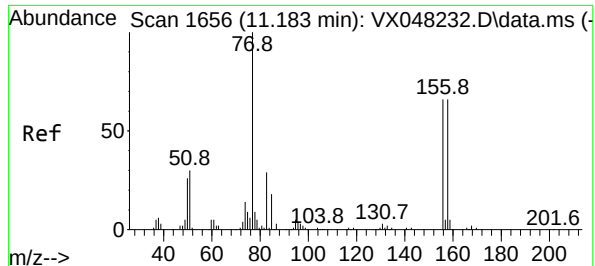
Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Tgt Ion:	75	Resp:	81093
Ion	Ratio	Lower	Upper
75	100		
77	45.4	22.4	67.2





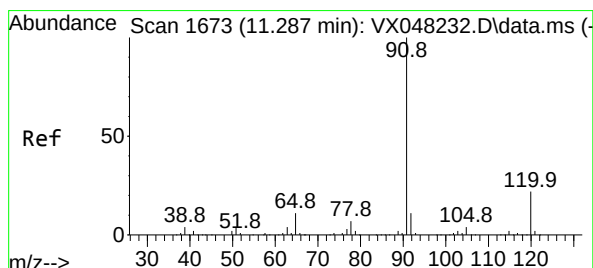
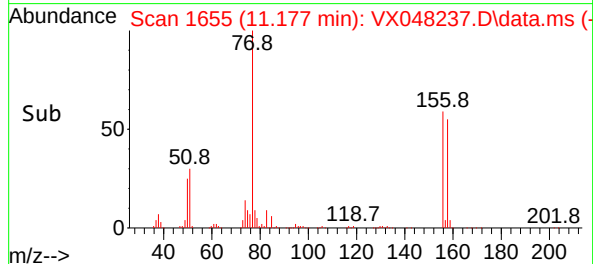
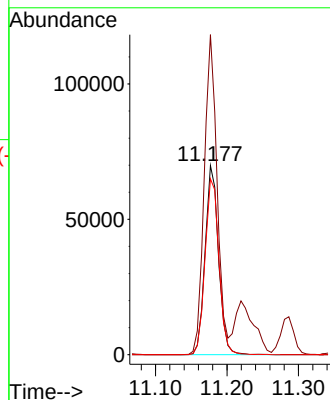
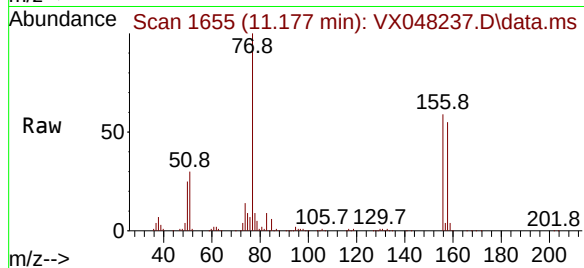
#77
Bromobenzene
Concen: 50.135 ug/l
RT: 11.177 min Scan# 1655
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVX102025

Tgt Ion:156 Resp: 91000
Ion Ratio Lower Upper
156 100
77 162.5 87.0 261.0
158 96.4 47.8 143.4

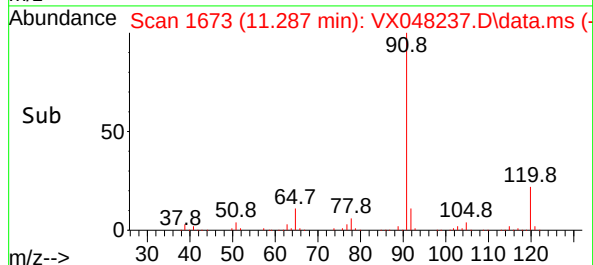
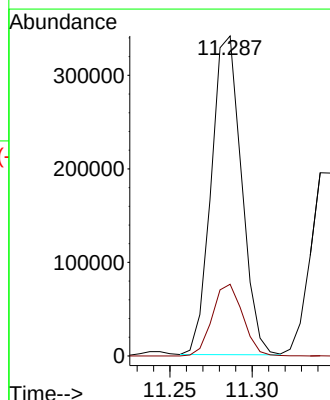
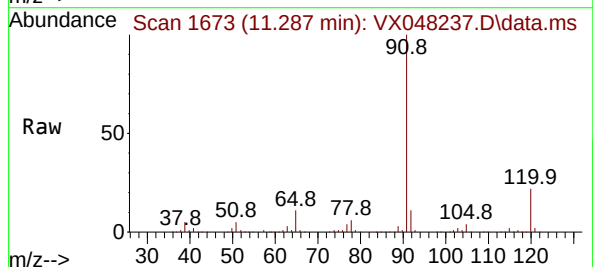
Manual Integrations
APPROVED

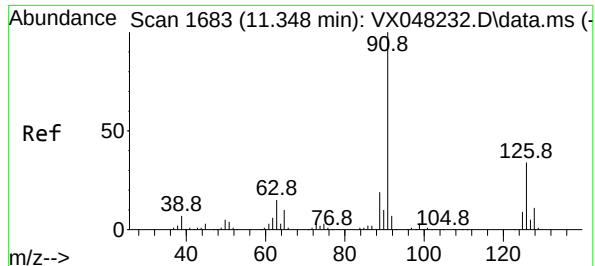
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#78
n-propylbenzene
Concen: 51.980 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 91 Resp: 435662
Ion Ratio Lower Upper
91 100
120 22.7 11.1 33.1





#79

2-Chlorotoluene

Concen: 50.760 ug/l

RT: 11.341 min Scan# 1682

Delta R.T. -0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion: 91 Resp: 257930

Ion Ratio Lower Upper

91 100

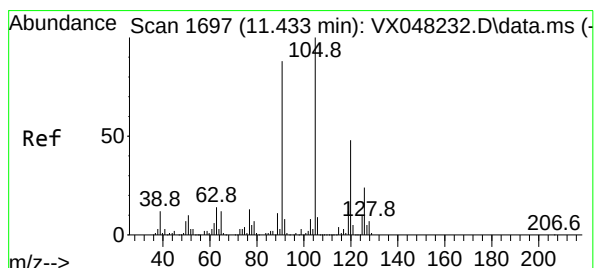
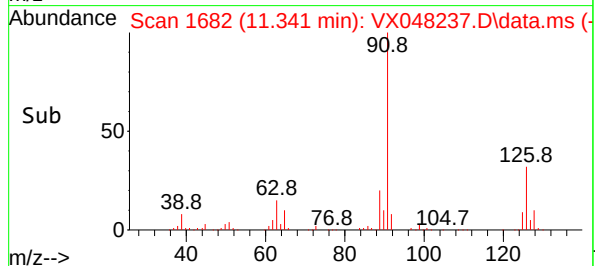
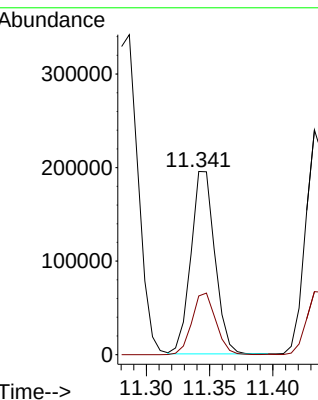
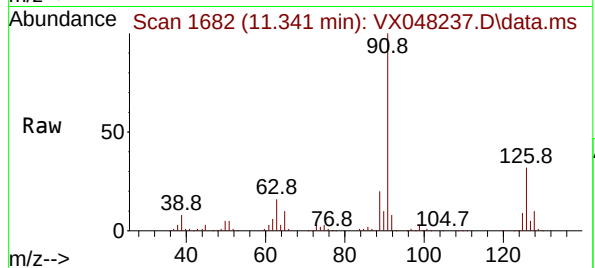
126 33.7 16.4 49.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#80

1,3,5-Trimethylbenzene

Concen: 50.918 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX048237.D

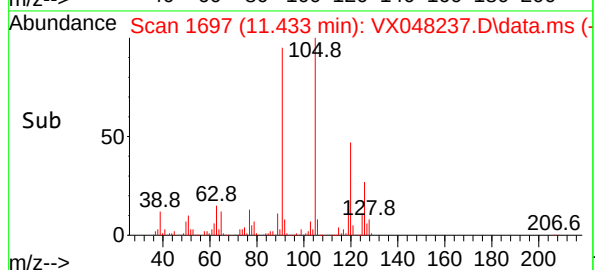
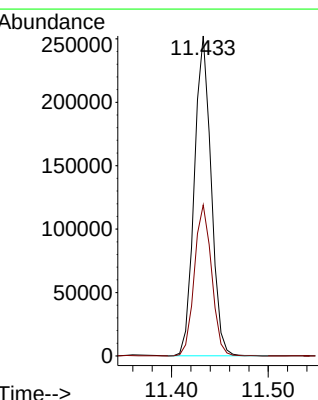
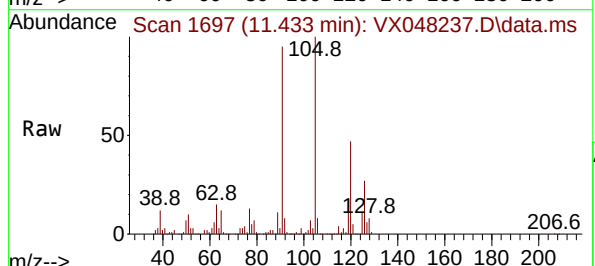
Acq: 20 Oct 2025 14:28

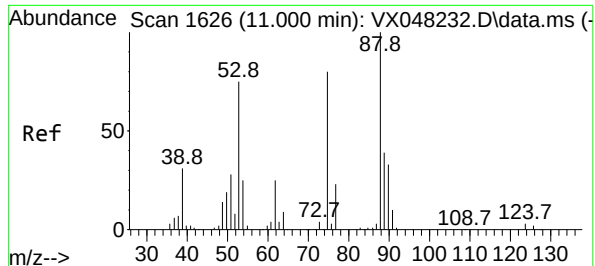
Tgt Ion:105 Resp: 305027

Ion Ratio Lower Upper

105 100

120 48.5 24.0 72.0





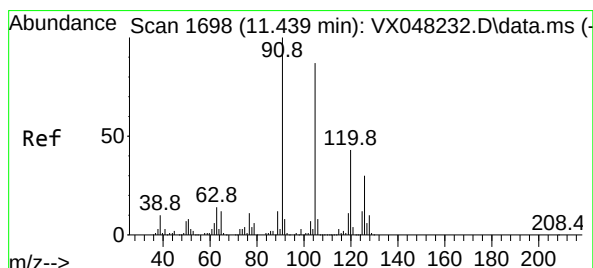
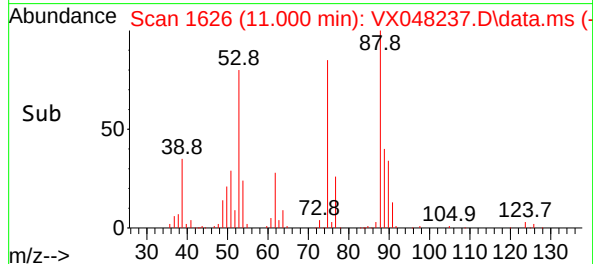
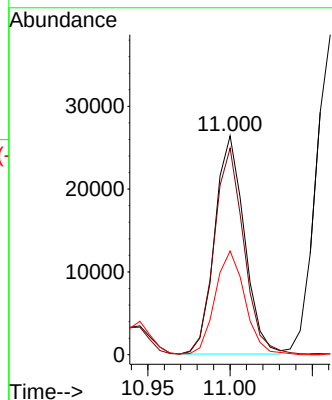
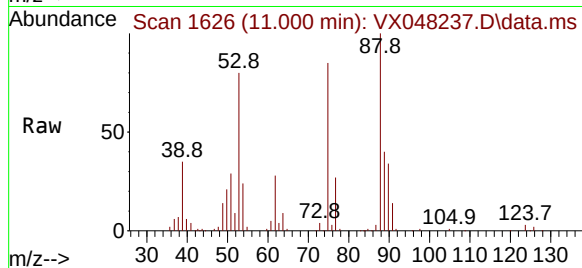
#81
trans-1,4-Dichloro-2-butene
Concen: 49.995 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
ICVX102025

Tgt Ion: 75 Resp: 3302
Ion Ratio Lower Upper
75 100
53 95.4 79.5 119.3
89 48.1 36.8 55.2

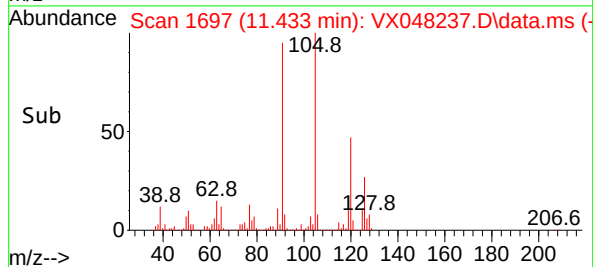
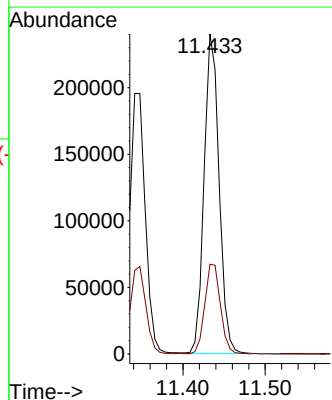
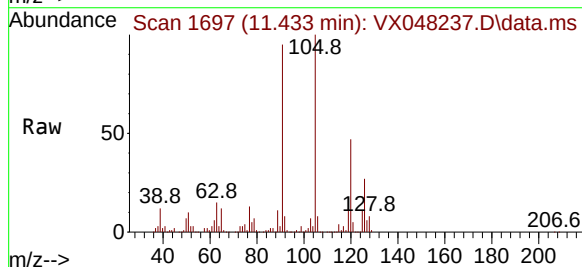
Manual Integrations
APPROVED

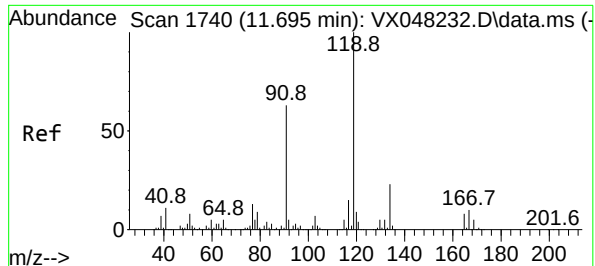
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#82
4-Chlorotoluene
Concen: 50.507 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 91 Resp: 304670
Ion Ratio Lower Upper
91 100
126 29.5 14.1 42.4





#83

tert-Butylbenzene

Concen: 50.288 ug/l

RT: 11.695 min Scan# 1740

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion:119 Resp: 309524

Ion Ratio Lower Upper

119 100

91 59.2 30.3 91.0

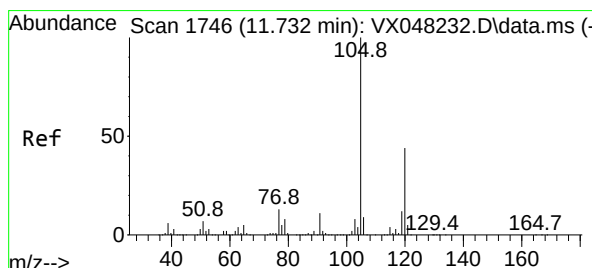
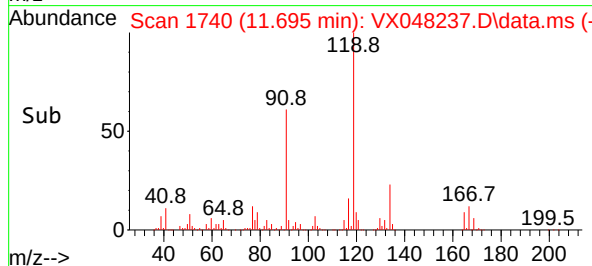
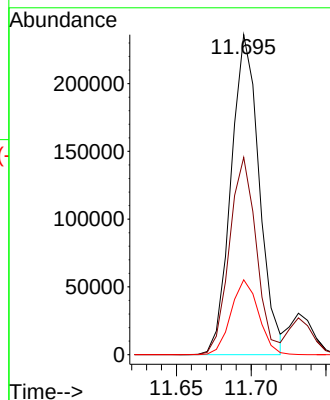
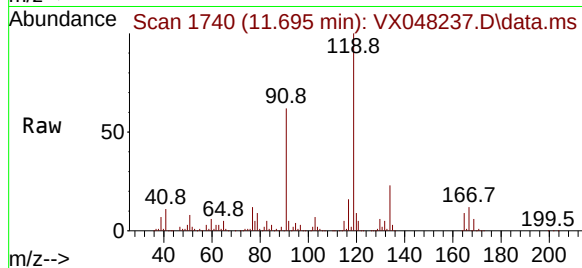
134 22.9 11.4 34.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#84

1,2,4-Trimethylbenzene

Concen: 51.607 ug/l

RT: 11.732 min Scan# 1746

Delta R.T. -0.000 min

Lab File: VX048237.D

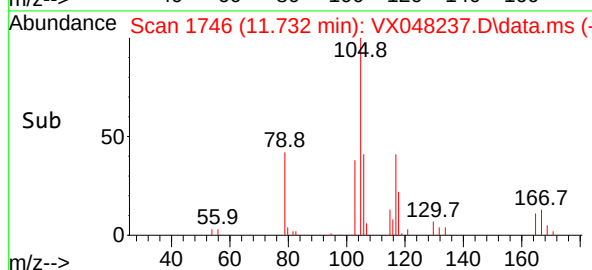
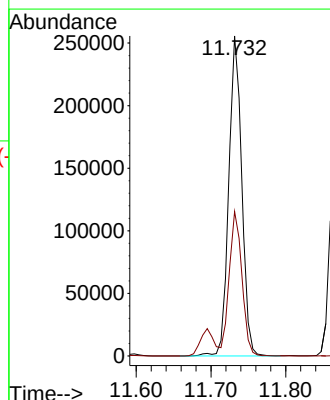
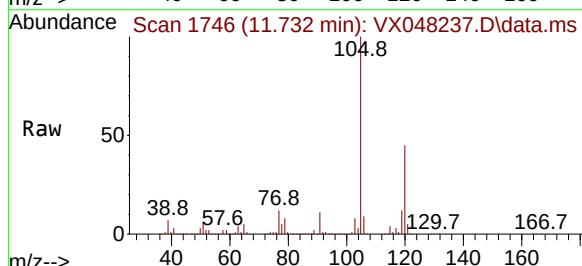
Acq: 20 Oct 2025 14:28

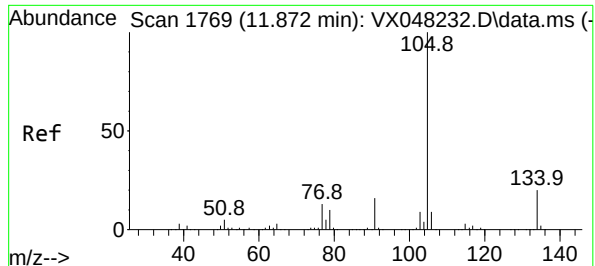
Tgt Ion:105 Resp: 308529

Ion Ratio Lower Upper

105 100

120 44.1 22.1 66.5





#85

sec-Butylbenzene

Concen: 51.230 ug/l

RT: 11.872 min Scan# 1769

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion:105 Resp: 37936

Ion Ratio Lower Upper

105 100

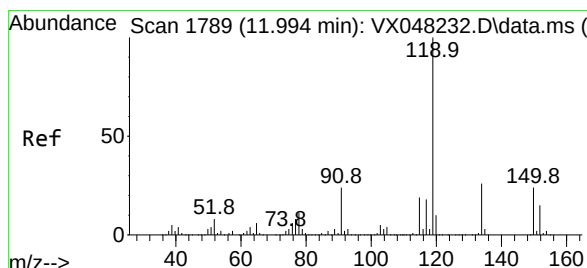
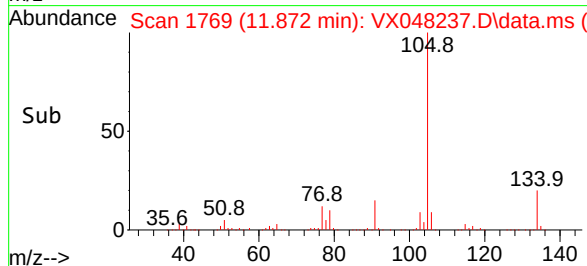
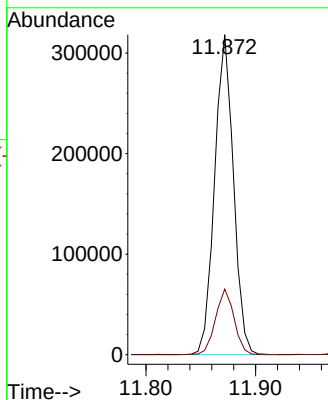
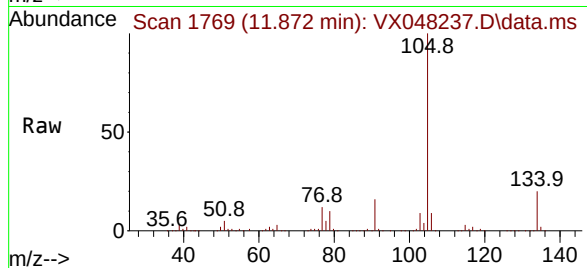
134 20.2 10.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#86

p-Isopropyltoluene

Concen: 50.686 ug/l

RT: 11.988 min Scan# 1788

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

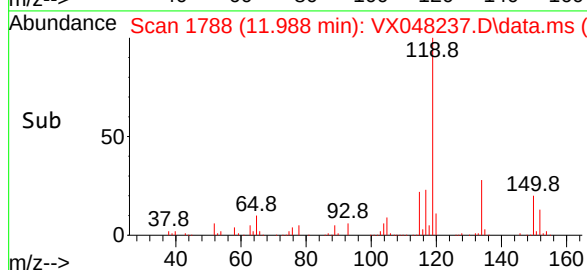
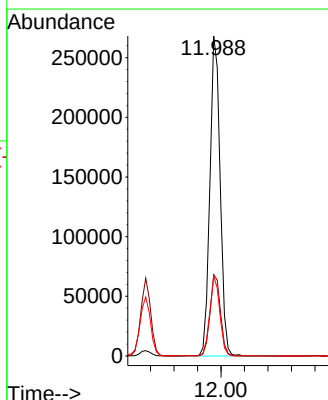
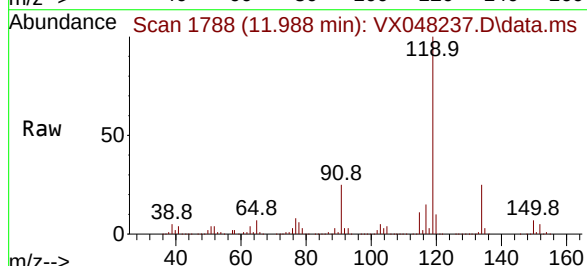
Tgt Ion:119 Resp: 324425

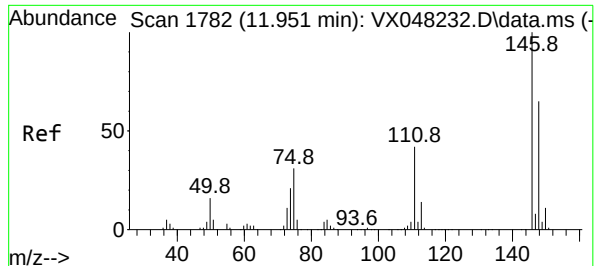
Ion Ratio Lower Upper

119 100

134 25.8 13.0 39.0

91 24.3 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 48.229 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion:146 Resp: 16502

Ion Ratio Lower Upper

146 100

111 42.2 20.4 61.2

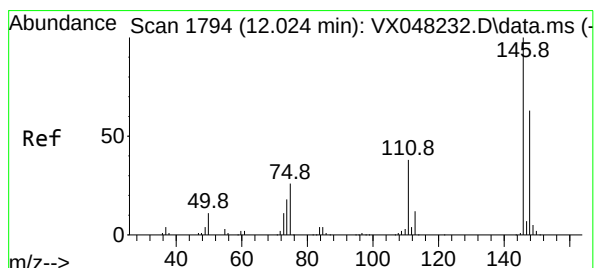
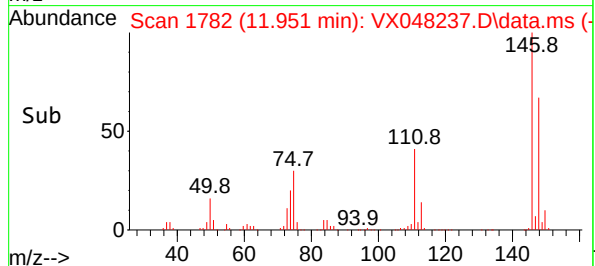
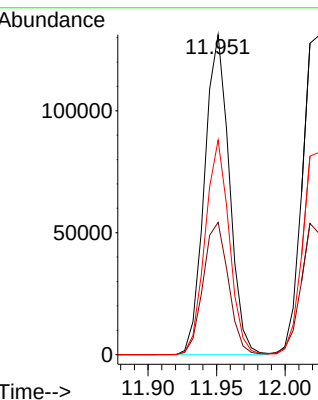
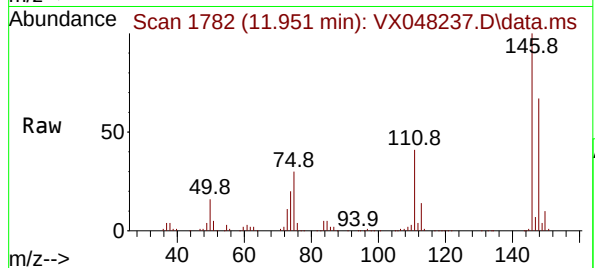
148 65.3 31.9 95.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#88

1,4-Dichlorobenzene

Concen: 47.423 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

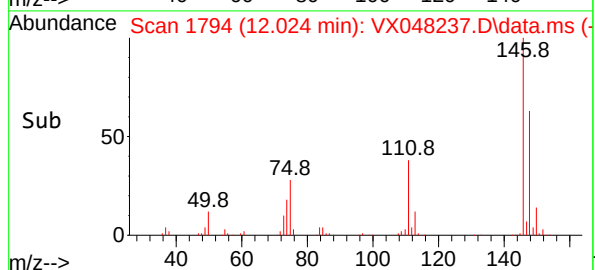
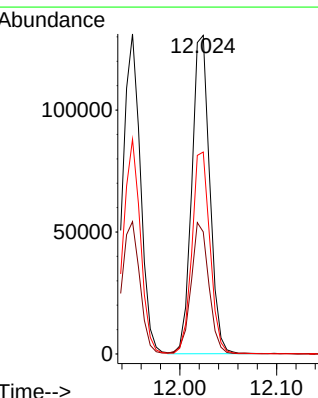
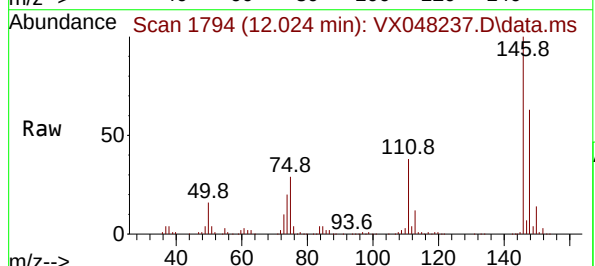
Tgt Ion:146 Resp: 168102

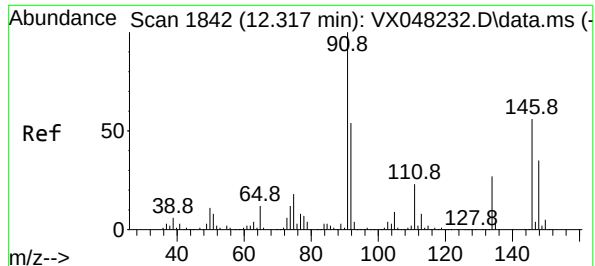
Ion Ratio Lower Upper

146 100

111 40.9 20.1 60.2

148 63.9 31.8 95.3





#89

n-Butylbenzene

Concen: 49.728 ug/l

RT: 12.311 min Scan# 1841

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

ICVX102025

Tgt Ion: 91 Resp: 289700

Ion Ratio Lower Upper

91 100

92 54.7 26.9 80.6

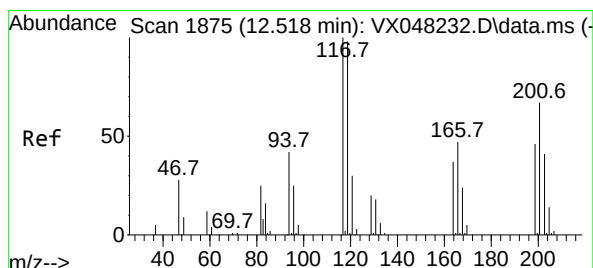
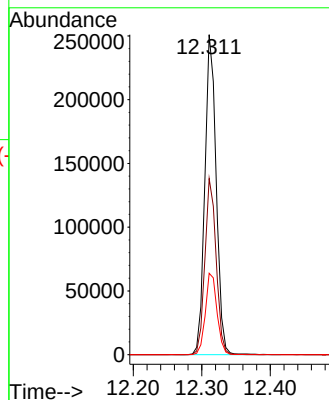
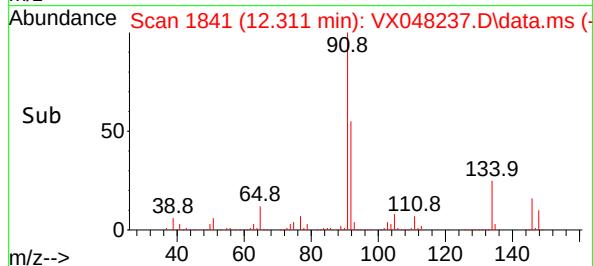
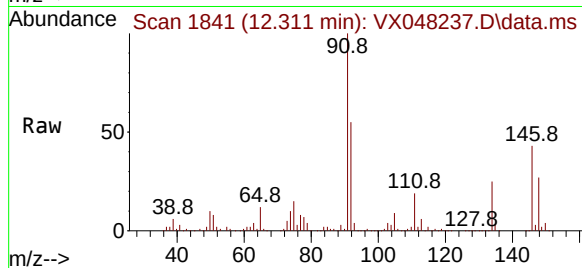
134 26.1 12.7 38.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#90

Hexachloroethane

Concen: 48.437 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX048237.D

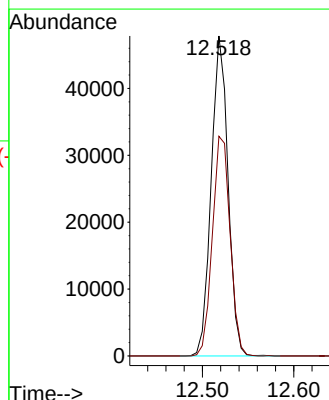
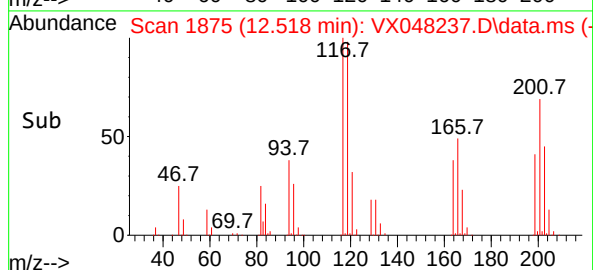
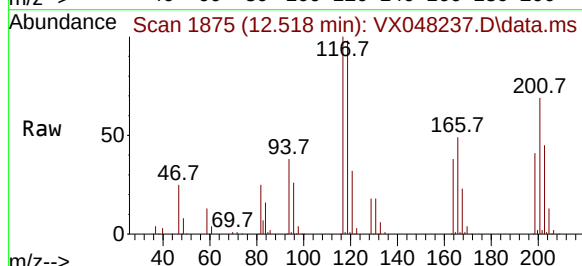
Acq: 20 Oct 2025 14:28

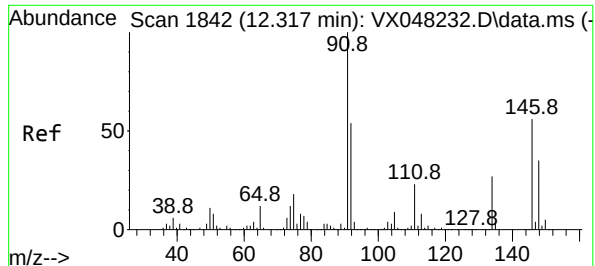
Tgt Ion:117 Resp: 61223

Ion Ratio Lower Upper

117 100

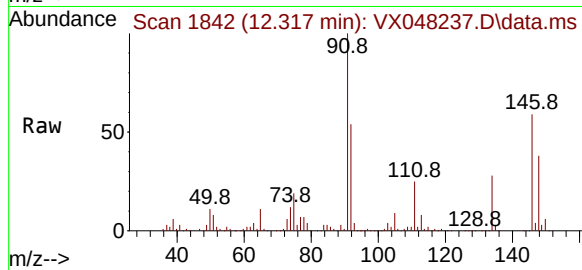
201 72.4 34.1 102.2





#91
1,2-Dichlorobenzene
Concen: 49.123 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

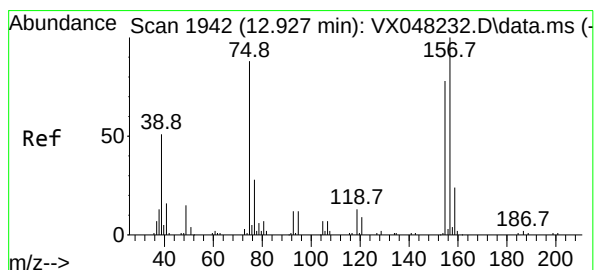
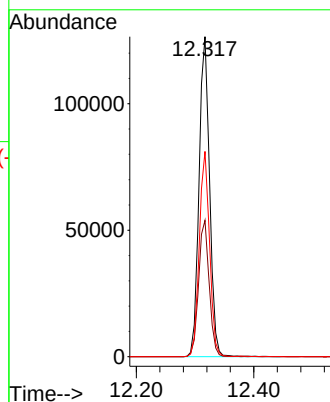
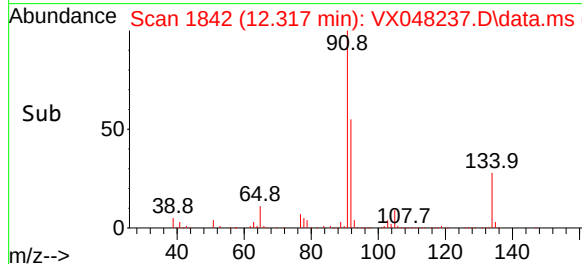
Instrument :
MSVOA_X
ClientSampleId :
ICVX102025



Tgt Ion:146 Resp: 15781
Ion Ratio Lower Upper
146 100
111 42.8 21.9 65.5
148 62.8 31.9 95.5

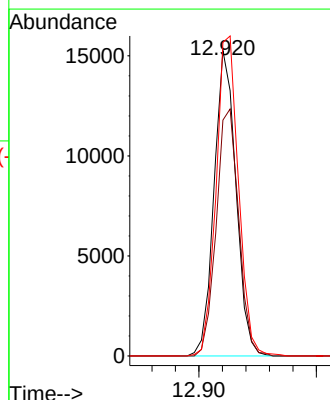
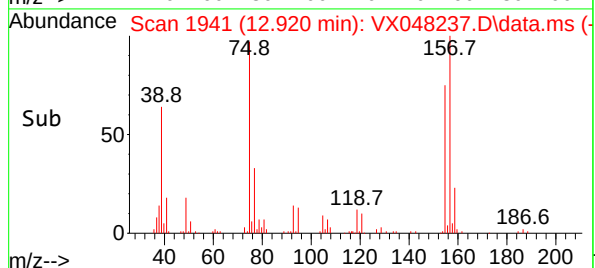
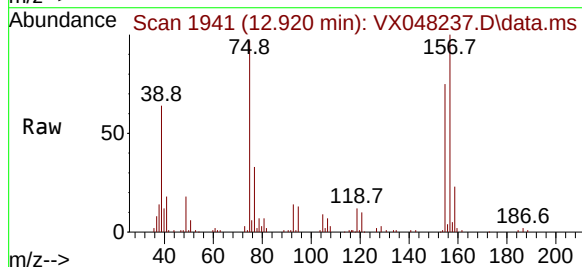
Manual Integrations
APPROVED

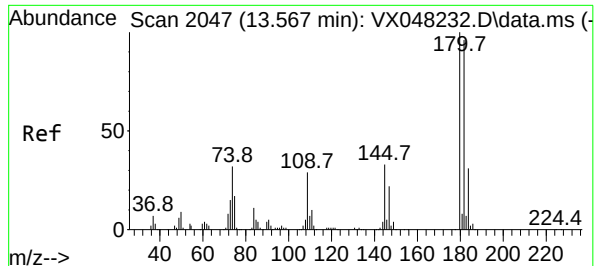
Reviewed By :John Carlone 10/21/2025
Supervised By :Semsettin Yesilyurt 10/21/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 49.072 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048237.D
Acq: 20 Oct 2025 14:28

Tgt Ion: 75 Resp: 19691
Ion Ratio Lower Upper
75 100
155 83.2 42.8 128.4
157 107.6 54.2 162.6





#93

1,2,4-Trichlorobenzene

Concen: 46.941 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

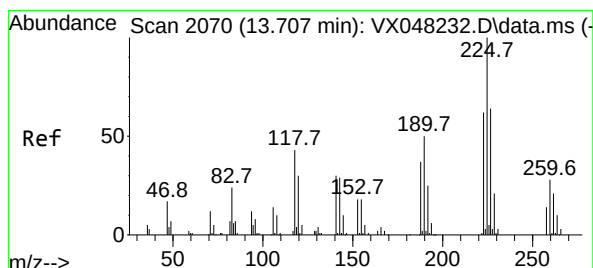
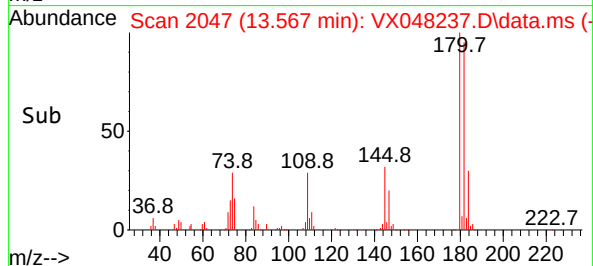
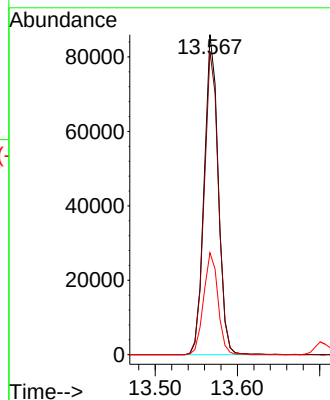
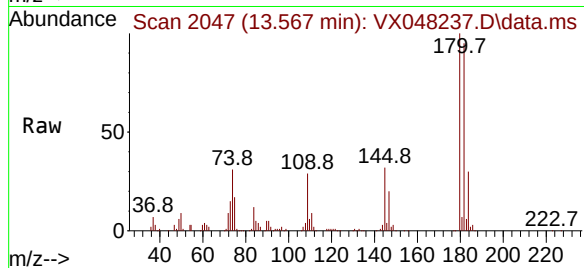
ICVX102025

Tgt Ion:	180	Resp:	10198
Ion Ratio	Lower	Upper	
180	100		
182	95.7	47.3	142.0
145	32.5	16.3	48.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#94

Hexachlorobutadiene

Concen: 48.274 ug/l

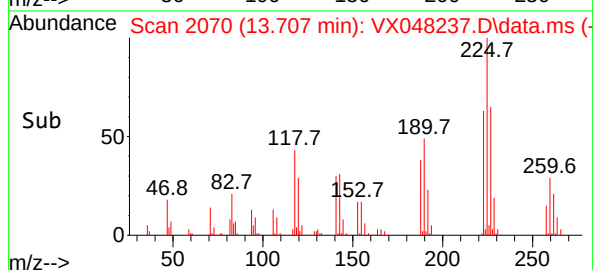
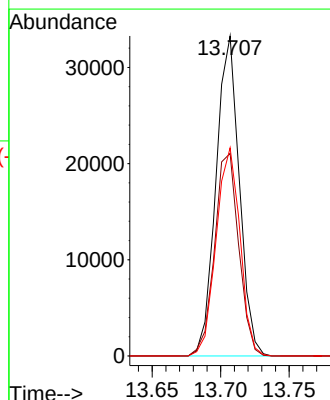
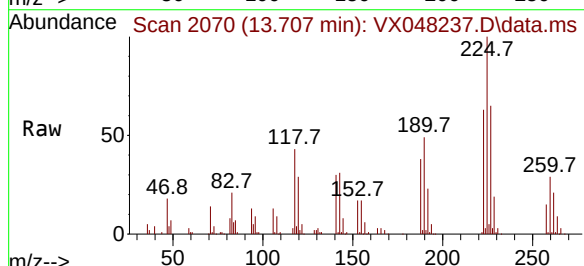
RT: 13.707 min Scan# 2070

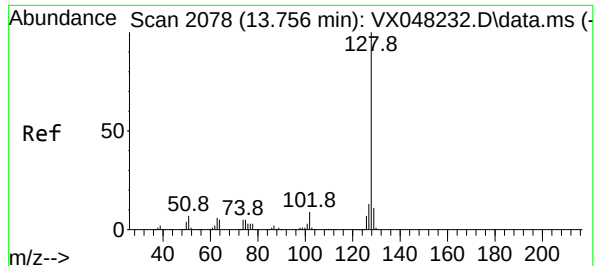
Delta R.T. 0.006 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Tgt Ion:	225	Resp:	39299
Ion Ratio	Lower	Upper	
225	100		
223	65.8	32.6	97.7
227	66.5	32.5	97.4





#95

Naphthalene

Concen: 50.362 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

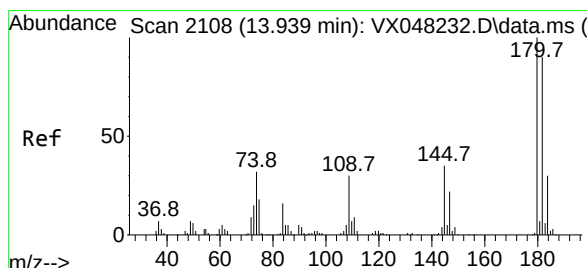
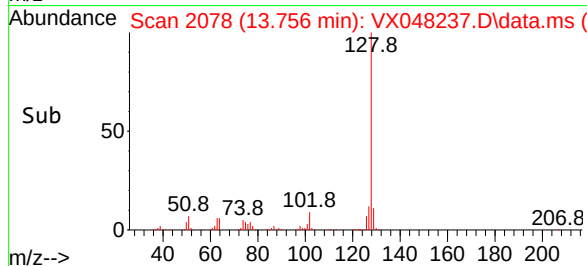
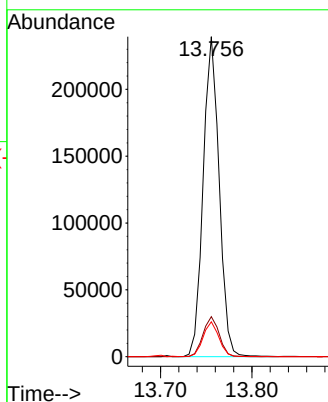
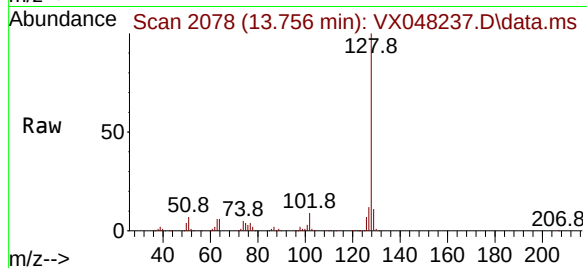
ICVX102025

Tgt Ion:	128	Resp:	28988
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.2	15.4
129	10.8	8.6	12.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/21/2025

Supervised By :Semsettin Yesilyurt 10/21/2025



#96

1,2,3-Trichlorobenzene

Concen: 48.223 ug/l

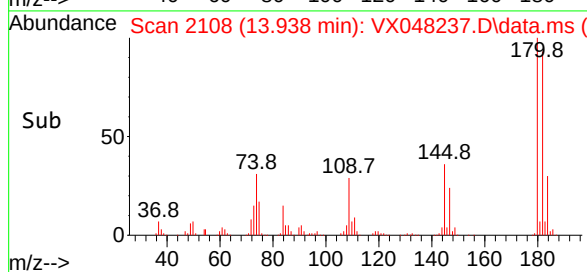
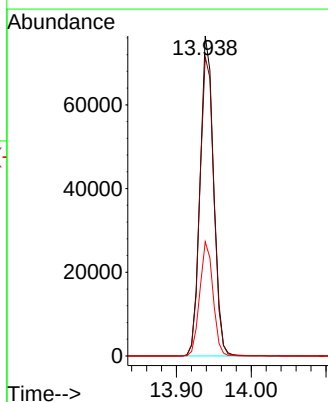
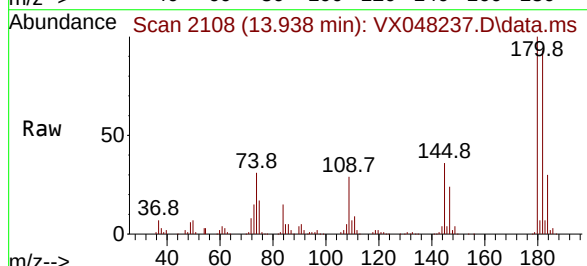
RT: 13.938 min Scan# 2108

Delta R.T. -0.000 min

Lab File: VX048237.D

Acq: 20 Oct 2025 14:28

Tgt Ion:	180	Resp:	96139
Ion Ratio	Lower	Upper	
180	100		
182	95.9	46.6	139.7
145	34.8	16.9	50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX102025\
Data File : WX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Quant Time: Oct 20 16:37:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	116	-0.01
2 T	Dichlorodifluoromethane	0.514	0.528	-2.7	127	0.00
3 P	Chloromethane	0.480	0.513	-6.9	133	0.00
4 C	Vinyl Chloride	0.444	0.493	-11.0#	138	0.00
5 T	Bromomethane	0.302	0.331	-9.6	136	0.00
6 T	Chloroethane	0.261	0.294	-12.6	139	0.00
7 T	Trichlorofluoromethane	0.852	0.890	-4.5	128	0.00
8 T	Diethyl Ether	0.240	0.258	-7.5	135	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.540	0.578	-7.0	134	0.00
10 T	Methyl Iodide	0.678	0.651	4.0	114	0.00
11 T	Tert butyl alcohol	0.070	0.062	11.4	117	0.00
12 CM	1,1-Dichloroethene	0.525	0.546	-4.0#	131	0.00
13 T	Acrolein	0.071	0.071	0.0	126	0.00
14 T	Allyl chloride	0.872	0.891	-2.2	129	0.00
15 T	Acrylonitrile	0.251	0.252	-0.4	122	0.00
16 T	Acetone	0.240	0.211	12.1	121	0.00
17 T	Carbon Disulfide	1.654	1.614	2.4	130	0.00
18 T	Methyl Acetate	0.502	0.494	1.6	123	0.00
19 T	Methyl tert-butyl Ether	1.791	1.761	1.7	120	0.00
20 T	Methylene Chloride	0.586	0.598	-2.0	126	0.00
21 T	trans-1,2-Dichloroethene	0.577	0.587	-1.7	128	0.00
22 T	Diisopropyl ether	1.738	1.796	-3.3	126	0.00
23 T	Vinyl Acetate	1.389	1.445	-4.0	125	0.00
24 P	1,1-Dichloroethane	1.051	1.040	1.0	124	0.00
25 T	2-Butanone	0.304	0.290	4.6	120	0.00
26 T	2,2-Dichloropropane	0.949	0.915	3.6	121	0.00
27 T	cis-1,2-Dichloroethene	0.673	0.678	-0.7	126	-0.01
28 T	Bromochloromethane	0.436	0.406	6.9	107	0.00
29 T	Tetrahydrofuran	0.182	0.177	2.7	120	-0.01
30 C	Chloroform	1.123	1.088	3.1#	121	0.00
31 T	Cyclohexane	0.870	0.916	-5.3	130	0.00
32 T	1,1,1-Trichloroethane	1.035	1.000	3.4	120	-0.01
33 S	1,2-Dichloroethane-d4	0.701	0.641	8.6	109	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	114	0.00
35 S	Dibromofluoromethane	0.341	0.334	2.1	115	0.00
36 T	1,1-Dichloropropene	0.485	0.479	1.2	126	-0.01
37 T	Ethyl Acetate	0.402	0.384	4.5	119	0.00
38 T	Carbon Tetrachloride	0.599	0.577	3.7	119	0.00
39 T	Methylcyclohexane	0.573	0.604	-5.4	127	0.00
40 TM	Benzene	1.409	1.415	-0.4	124	0.00
41 T	Methacrylonitrile	0.211	0.213	-0.9	118	-0.01
42 TM	1,2-Dichloroethane	0.520	0.509	2.1	116	0.00
43 T	Isopropyl Acetate	0.661	0.658	0.5	118	0.00
44 TM	Trichloroethene	0.372	0.376	-1.1	123	0.00
45 C	1,2-Dichloropropane	0.335	0.342	-2.1#	121	0.00
46 T	Dibromomethane	0.261	0.255	2.3	118	0.00
47 T	Bromodichloromethane	0.563	0.546	3.0	115	0.00
48 T	Methyl methacrylate	0.333	0.330	0.9	117	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX102025\
Data File : WX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVWX102025

Quant Time: Oct 20 16:37:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	0.004	0.0	113	0.00
50 S	Toluene-d8	1.196	1.158	3.2	111	0.00
51 T	4-Methyl-2-Pentanone	0.381	0.373	2.1	113	0.00
52 CM	Toluene	0.895	0.896	-0.1#	118	0.00
53 T	t-1,3-Dichloropropene	0.543	0.543	0.0	113	0.00
54 T	cis-1,3-Dichloropropene	0.586	0.585	0.2	116	0.00
55 T	1,1,2-Trichloroethane	0.333	0.330	0.9	117	0.00
56 T	Ethyl methacrylate	0.487	0.486	0.2	113	0.00
57 T	1,3-Dichloropropane	0.568	0.560	1.4	116	0.00
58 T	2-Chloroethyl Vinyl ether	0.232	0.253	-9.1	111	0.00
59 T	2-Hexanone	0.266	0.261	1.9	112	0.00
60 T	Dibromochloromethane	0.447	0.425	4.9	114	0.00
61 T	1,2-Dibromoethane	0.355	0.350	1.4	116	0.00
62 S	4-Bromofluorobenzene	0.455	0.426	6.4	109	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	109	0.00
64 T	Tetrachloroethene	0.373	0.363	2.7	121	0.00
65 PM	Chlorobenzene	1.125	1.127	-0.2	118	0.00
66 T	1,1,1,2-Tetrachloroethane	0.413	0.405	1.9	113	0.00
67 C	Ethyl Benzene	1.915	1.946	-1.6#	116	0.00
68 T	m/p-Xylenes	0.712	0.729	-2.4	116	0.00
69 T	o-Xylene	0.687	0.693	-0.9	114	0.00
70 T	Styrene	1.170	1.208	-3.2	115	0.00
71 P	Bromoform	0.330	0.319	3.3	113	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
73 T	Isopropylbenzene	3.652	3.773	-3.3	118	0.00
74 T	N-amyl acetate	1.295	1.332	-2.9	114	0.00
75 P	1,1,2,2-Tetrachloroethane	0.997	0.996	0.1	113	0.00
76 T	1,2,3-Trichloropropane	0.811	0.818	-0.9	119	0.00
77 T	Bromobenzene	0.916	0.918	-0.2	114	0.00
78 T	n-propylbenzene	4.228	4.396	-4.0	117	0.00
79 T	2-Chlorotoluene	2.564	2.603	-1.5	116	0.00
80 T	1,3,5-Trimethylbenzene	3.022	3.078	-1.9	115	0.00
81 T	trans-1,4-Dichloro-2-butene	0.333	0.333	0.0	113	0.00
82 T	4-Chlorotoluene	3.043	3.074	-1.0	114	0.00
83 T	tert-Butylbenzene	3.105	3.123	-0.6	115	0.00
84 T	1,2,4-Trimethylbenzene	3.016	3.113	-3.2	116	0.00
85 T	sec-Butylbenzene	3.736	3.828	-2.5	118	0.00
86 T	p-Isopropyltoluene	3.229	3.273	-1.4	117	0.00
87 T	1,3-Dichlorobenzene	1.726	1.665	3.5	115	0.00
88 T	1,4-Dichlorobenzene	1.788	1.696	5.1	115	0.00
89 T	n-Butylbenzene	2.939	2.923	0.5	119	0.00
90 T	Hexachloroethane	0.638	0.618	3.1	116	0.00
91 T	1,2-Dichlorobenzene	1.621	1.592	1.8	114	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.202	0.199	1.5	109	0.00
93 T	1,2,4-Trichlorobenzene	1.096	1.029	6.1	115	0.00
94 T	Hexachlorobutadiene	0.507	0.397	21.7	114	0.00
95 T	Naphthalene	2.904	2.925	-0.7	113	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Quant Time: Oct 20 16:37:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	1.006	0.970	3.6	114	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Quant Time: Oct 20 16:37:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	116	-0.01
2 T	Dichlorodifluoromethane	50.000	51.331	-2.7	127	0.00
3 P	Chloromethane	50.000	53.491	-7.0	133	0.00
4 C	Vinyl Chloride	50.000	55.441	-10.9#	138	0.00
5 T	Bromomethane	50.000	54.847	-9.7	136	0.00
6 T	Chloroethane	50.000	56.320	-12.6	139	0.00
7 T	Trichlorofluoromethane	50.000	52.209	-4.4	128	0.00
8 T	Diethyl Ether	50.000	53.742	-7.5	135	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	53.589	-7.2	134	0.00
10 T	Methyl Iodide	50.000	47.994	4.0	114	0.00
11 T	Tert butyl alcohol	250.000	223.693	10.5	117	0.00
12 CM	1,1-Dichloroethene	50.000	52.043	-4.1#	131	0.00
13 T	Acrolein	250.000	249.473	0.2	126	0.00
14 T	Allyl chloride	50.000	51.099	-2.2	129	0.00
15 T	Acrylonitrile	250.000	250.900	-0.4	122	0.00
16 T	Acetone	250.000	219.789	12.1	121	0.00
17 T	Carbon Disulfide	50.000	48.792	2.4	130	0.00
18 T	Methyl Acetate	50.000	49.190	1.6	123	0.00
19 T	Methyl tert-butyl Ether	50.000	49.162	1.7	120	0.00
20 T	Methylene Chloride	50.000	51.066	-2.1	126	0.00
21 T	trans-1,2-Dichloroethene	50.000	50.932	-1.9	128	0.00
22 T	Diisopropyl ether	50.000	51.665	-3.3	126	0.00
23 T	Vinyl Acetate	250.000	260.168	-4.1	125	0.00
24 P	1,1-Dichloroethane	50.000	49.490	1.0	124	0.00
25 T	2-Butanone	250.000	238.354	4.7	120	0.00
26 T	2,2-Dichloropropane	50.000	48.230	3.5	121	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.350	-0.7	126	-0.01
28 T	Bromochloromethane	50.000	46.587	6.8	107	0.00
29 T	Tetrahydrofuran	250.000	242.572	3.0	120	-0.01
30 C	Chloroform	50.000	48.427	3.1#	121	0.00
31 T	Cyclohexane	50.000	52.646	-5.3	130	0.00
32 T	1,1,1-Trichloroethane	50.000	48.309	3.4	120	-0.01
33 S	1,2-Dichloroethane-d4	50.000	45.687	8.6	109	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	114	0.00
35 S	Dibromofluoromethane	50.000	48.951	2.1	115	0.00
36 T	1,1-Dichloropropene	50.000	49.344	1.3	126	-0.01
37 T	Ethyl Acetate	50.000	47.684	4.6	119	0.00
38 T	Carbon Tetrachloride	50.000	48.228	3.5	119	0.00
39 T	Methylcyclohexane	50.000	52.670	-5.3	127	0.00
40 TM	Benzene	50.000	50.241	-0.5	124	0.00
41 T	Methacrylonitrile	50.000	50.358	-0.7	118	-0.01
42 TM	1,2-Dichloroethane	50.000	48.963	2.1	116	0.00
43 T	Isopropyl Acetate	50.000	49.816	0.4	118	0.00
44 TM	Trichloroethene	50.000	50.582	-1.2	123	0.00
45 C	1,2-Dichloropropane	50.000	50.994	-2.0#	121	0.00
46 T	Dibromomethane	50.000	48.913	2.2	118	0.00
47 T	Bromodichloromethane	50.000	48.459	3.1	115	0.00
48 T	Methyl methacrylate	50.000	49.519	1.0	117	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Quant Time: Oct 20 16:37:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	1000.197	-0.0	113	0.00
50 S	Toluene-d8	50.000	48.386	3.2	111	0.00
51 T	4-Methyl-2-Pentanone	250.000	244.897	2.0	113	0.00
52 CM	Toluene	50.000	50.088	-0.2#	118	0.00
53 T	t-1,3-Dichloropropene	50.000	50.004	-0.0	113	0.00
54 T	cis-1,3-Dichloropropene	50.000	49.944	0.1	116	0.00
55 T	1,1,2-Trichloroethane	50.000	49.597	0.8	117	0.00
56 T	Ethyl methacrylate	50.000	49.964	0.1	113	0.00
57 T	1,3-Dichloropropane	50.000	49.226	1.5	116	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	242.124	3.2	111	0.00
59 T	2-Hexanone	250.000	246.102	1.6	112	0.00
60 T	Dibromochloromethane	50.000	47.530	4.9	114	0.00
61 T	1,2-Dibromoethane	50.000	49.319	1.4	116	0.00
62 S	4-Bromofluorobenzene	50.000	46.795	6.4	109	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	109	0.00
64 T	Tetrachloroethene	50.000	48.686	2.6	121	0.00
65 PM	Chlorobenzene	50.000	50.095	-0.2	118	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.014	2.0	113	0.00
67 C	Ethyl Benzene	50.000	50.798	-1.6#	116	0.00
68 T	m/p-Xylenes	100.000	102.416	-2.4	116	0.00
69 T	o-Xylene	50.000	50.424	-0.8	114	0.00
70 T	Styrene	50.000	51.651	-3.3	115	0.00
71 P	Bromoform	50.000	48.250	3.5	113	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	107	0.00
73 T	Isopropylbenzene	50.000	51.658	-3.3	118	0.00
74 T	N-ethyl acetate	50.000	51.399	-2.8	114	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.936	0.1	113	0.00
76 T	1,2,3-Trichloropropane	50.000	50.456	-0.9	119	0.00
77 T	Bromobenzene	50.000	50.135	-0.3	114	0.00
78 T	n-propylbenzene	50.000	51.980	-4.0	117	0.00
79 T	2-Chlorotoluene	50.000	50.760	-1.5	116	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.918	-1.8	115	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	49.995	0.0	113	0.00
82 T	4-Chlorotoluene	50.000	50.507	-1.0	114	0.00
83 T	tert-Butylbenzene	50.000	50.288	-0.6	115	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.607	-3.2	116	0.00
85 T	sec-Butylbenzene	50.000	51.230	-2.5	118	0.00
86 T	p-Isopropyltoluene	50.000	50.686	-1.4	117	0.00
87 T	1,3-Dichlorobenzene	50.000	48.229	3.5	115	0.00
88 T	1,4-Dichlorobenzene	50.000	47.423	5.2	115	0.00
89 T	n-Butylbenzene	50.000	49.728	0.5	119	0.00
90 T	Hexachloroethane	50.000	48.437	3.1	116	0.00
91 T	1,2-Dichlorobenzene	50.000	49.123	1.8	114	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.072	1.9	109	0.00
93 T	1,2,4-Trichlorobenzene	50.000	46.941	6.1	115	0.00
94 T	Hexachlorobutadiene	50.000	48.274	3.5	114	0.00
95 T	Naphthalene	50.000	50.362	-0.7	113	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048237.D
Acq On : 20 Oct 2025 14:28
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX102025

Quant Time: Oct 20 16:37:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	48.223	3.6	114	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>Q3447</u>
Instrument ID:	<u>MSVOA_X</u>	Calibration Date/Time:	<u>10/27/2025</u> <u>09:05</u>
Lab File ID:	<u>VX048355.D</u>	Init. Calib. Date(s):	<u>10/20/2025</u> <u>10/20/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>10:59</u> <u>13:49</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.444	0.642		44.6	20
1,1-Dichloroethene	0.525	0.574		9.33	20
2-Butanone	0.304	0.278		-8.55	20
Carbon Tetrachloride	0.599	0.549		-8.35	20
Chloroform	1.123	1.342		19.5	20
Benzene	1.409	1.520		7.88	20
1,2-Dichloroethane	0.520	0.607		16.73	20
Trichloroethene	0.372	0.382		2.69	20
Tetrachloroethene	0.373	0.376		0.8	20
Chlorobenzene	1.125	1.192	0.3	5.96	20
1,2-Dichloroethane-d4	0.701	0.801		14.27	20
Dibromofluoromethane	0.341	0.295		-13.49	20
Toluene-d8	1.196	1.196		0	20
4-Bromofluorobenzene	0.455	0.459		0.88	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\VX102725\
 Data File : VX048355.D
 Acq On : 27 Oct 2025 09:05
 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 10/28/2025
 Supervised By : Mahesh Dadoda 10/28/2025

Quant Time: Oct 28 01:43:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	128546	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	221660	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	197395	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.000	152	97107	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	102955	57.124	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 114.240%			
35) Dibromofluoromethane	5.361	113	65372	43.199	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 86.400%			
50) Toluene-d8	8.628	98	265050	49.970	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.940%			
62) 4-Bromofluorobenzene	11.061	95	101680	50.390	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.780%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	60391	45.700	ug/l	97
3) Chloromethane	1.301	50	34159	27.693	ug/l	99
4) Vinyl Chloride	1.380	62	82569	72.289	ug/l	100
5) Bromomethane	1.611	94	34079	43.964	ug/l	98
6) Chloroethane	1.691	64	52021	77.506	ug/l	96
7) Trichlorofluoromethane	1.892	101	137418	62.731	ug/l	98
8) Diethyl Ether	2.130	74	54742	88.813	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	74431	53.657	ug/l	98
10) Methyl Iodide	2.453	142	297592	170.651	ug/l	99
11) Tert butyl alcohol	2.934	59	45280	253.037	ug/l	99
12) 1,1-Dichloroethene	2.325	96	73840	54.714	ug/l	95
13) Acrolein	2.233	56	59318	325.021	ug/l	100
14) Allyl chloride	2.660	41	135414	60.436	ug/l	97
15) Acrylonitrile	3.050	53	190072	294.566	ug/l	98
16) Acetone	2.373	43	101484	164.135	ug/l	98
17) Carbon Disulfide	2.514	76	206126	48.462	ug/l	100
18) Methyl Acetate	2.691	43	82375	63.795	ug/l	96
19) Methyl tert-butyl Ether	3.105	73	281947	61.239	ug/l	98
20) Methylene Chloride	2.782	84	89167	59.186	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	81699	55.112	ug/l	95
22) Diisopropyl ether	3.745	45	306477	68.579	ug/l	94
23) Vinyl Acetate	3.709	43	1059204	296.708	ug/l	100
24) 1,1-Dichloroethane	3.599	63	162828	60.256	ug/l	98
25) 2-Butanone	4.526	43	178867	228.555	ug/l	96
26) 2,2-Dichloropropane	4.458	77	140783	57.720	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	101994	58.953	ug/l	98
28) Bromochloromethane	4.879	49	65875	58.793	ug/l	97
29) Tetrahydrofuran	4.983	42	135821	289.781	ug/l	98
30) Chloroform	5.074	83	172560	59.771	ug/l	98
31) Cyclohexane	5.452	56	123464	55.187	ug/l	96
32) 1,1,1-Trichloroethane	5.367	97	145395	54.644	ug/l	99
36) 1,1-Dichloropropene	5.672	75	104651	48.656	ug/l	99
37) Ethyl Acetate	4.690	43	96184	53.952	ug/l	99
38) Carbon Tetrachloride	5.660	117	121738	45.877	ug/l	98
39) Methylcyclohexane	7.360	83	128636	50.642	ug/l	97
40) Benzene	6.019	78	336921	53.954	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
 Data File : VX048355.D
 Acq On : 27 Oct 2025 09:05
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Quant Time: Oct 28 01:43:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 10/28/2025
 Supervised By :Mahesh Dadoda 10/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.897	41	54332	58.033	ug/l	98
42) 1,2-Dichloroethane	6.062	62	134544	58.388	ug/l	99
43) Isopropyl Acetate	6.312	43	174656	59.642	ug/l	99
44) Trichloroethene	7.104	130	84695	51.365	ug/l	96
45) 1,2-Dichloropropane	7.409	63	87538	58.961	ug/l	96
46) Dibromomethane	7.562	93	64397	55.674	ug/l	98
47) Bromodichloromethane	7.799	83	138966	55.643	ug/l	98
48) Methyl methacrylate	7.671	41	87827	59.435	ug/l	99
49) 1,4-Dioxane	7.641	88	18864	966.279	ug/l	97
51) 4-Methyl-2-Pentanone	8.555	43	480393	284.523	ug/l	99
52) Toluene	8.702	92	207865	52.397	ug/l	100
53) t-1,3-Dichloropropene	8.958	75	128067	53.212	ug/l	98
54) cis-1,3-Dichloropropene	8.348	75	131198	50.527	ug/l	98
55) 1,1,2-Trichloroethane	9.134	97	80878	54.822	ug/l	97
56) Ethyl methacrylate	9.098	69	123158	57.075	ug/l	99
57) 1,3-Dichloropropane	9.287	76	140660	55.818	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.220	63	343743	295.946	ug/l	99
59) 2-Hexanone	9.409	43	298977	253.948	ug/l	100
60) Dibromochloromethane	9.500	129	102592	51.739	ug/l	100
61) 1,2-Dibromoethane	9.592	107	83935	53.368	ug/l	98
64) Tetrachloroethene	9.256	164	74288	50.413	ug/l	98
65) Chlorobenzene	10.061	112	235375	53.007	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.147	131	84894	52.052	ug/l	99
67) Ethyl Benzene	10.177	91	398991	52.775	ug/l	99
68) m/p-Xylenes	10.281	106	302203	107.585	ug/l	100
69) o-Xylene	10.622	106	146433	53.997	ug/l	100
70) Styrene	10.634	104	255432	55.316	ug/l	98
71) Bromoform	10.781	173	62908	48.260	ug/l #	99
73) Isopropylbenzene	10.945	105	375481	52.939	ug/l	100
74) N-amyl acetate	10.823	43	155140	61.665	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	101475	52.390	ug/l	99
76) 1,2,3-Trichloropropane	11.219	75	83629m	53.106	ug/l	
77) Bromobenzene	11.177	156	93954	52.830	ug/l	99
78) n-propylbenzene	11.287	91	452247	55.070	ug/l	100
79) 2-Chlorotoluene	11.348	91	274388	55.110	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	313791	53.461	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.000	75	23819	36.799	ug/l #	12
82) 4-Chlorotoluene	11.433	91	323214	54.685	ug/l	99
83) tert-Butylbenzene	11.695	119	309158	51.264	ug/l	99
84) 1,2,4-Trimethylbenzene	11.732	105	319307	54.510	ug/l	99
85) sec-Butylbenzene	11.872	105	387069	53.347	ug/l	99
86) p-Isopropyltoluene	11.988	119	328504	52.381	ug/l	98
87) 1,3-Dichlorobenzene	11.951	146	171851	51.258	ug/l	98
88) 1,4-Dichlorobenzene	12.024	146	173880	50.063	ug/l	99
89) n-Butylbenzene	12.311	91	311650	54.597	ug/l	99
90) Hexachloroethane	12.518	117	59508	48.050	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	165525	52.585	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	20263	51.538	ug/l	92
93) 1,2,4-Trichlorobenzene	13.567	180	112208	52.712	ug/l	99
94) Hexachlorobutadiene	13.707	225	43438	54.450	ug/l	99
95) Naphthalene	13.756	128	299825	53.163	ug/l	99
96) 1,2,3-Trichlorobenzene	13.938	180	103088	52.774	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
Data File : VX048355.D
Acq On : 27 Oct 2025 09:05
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 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025

Quant Time: Oct 28 01:43:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

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

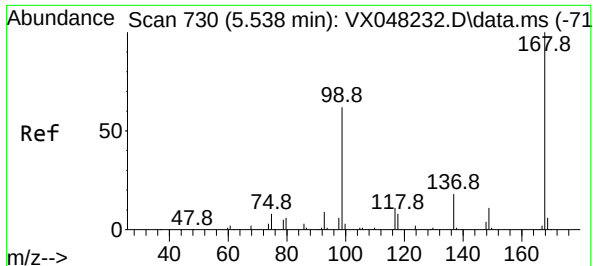
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.531 min Scan# 71

Delta R.T. -0.013 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:168 Resp: 128540

Ion Ratio Lower Upper

168 100

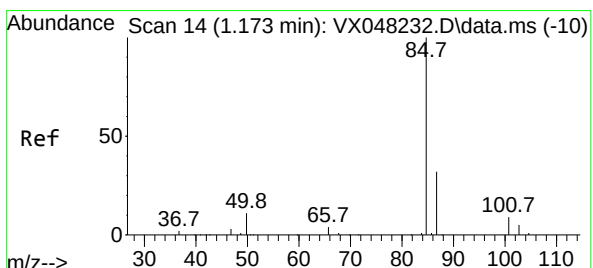
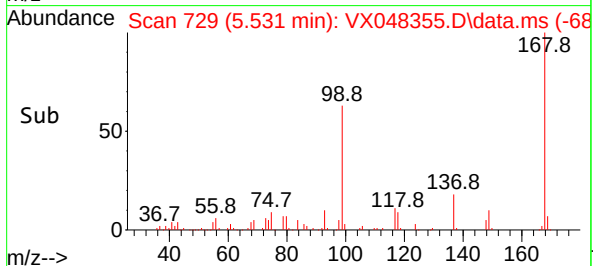
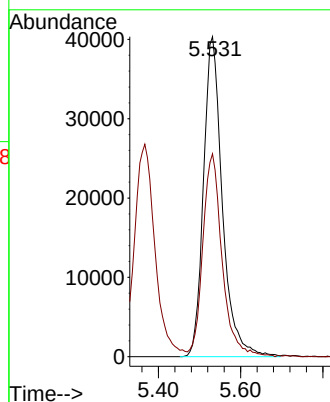
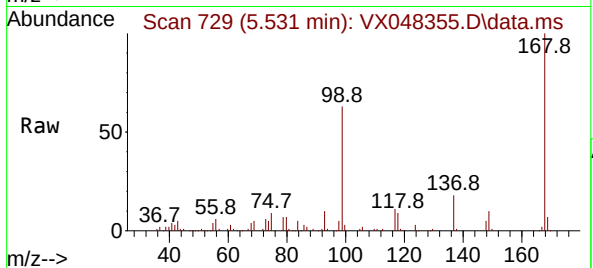
99 63.2 46.4 69.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#2

Dichlorodifluoromethane

Concen: 45.700 ug/l

RT: 1.173 min Scan# 14

Delta R.T. -0.000 min

Lab File: VX048355.D

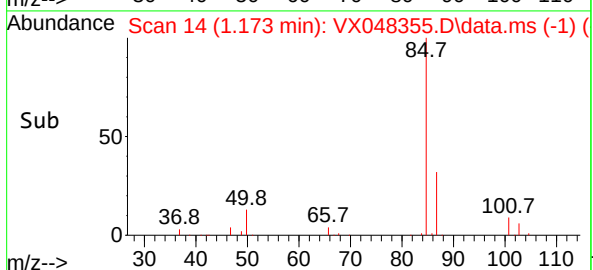
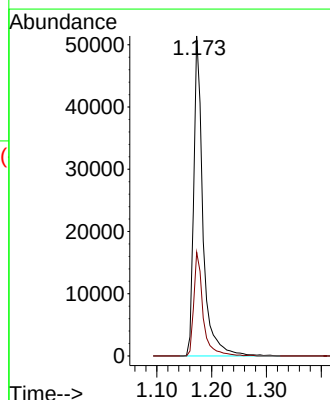
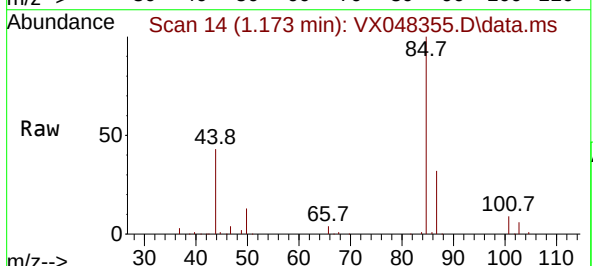
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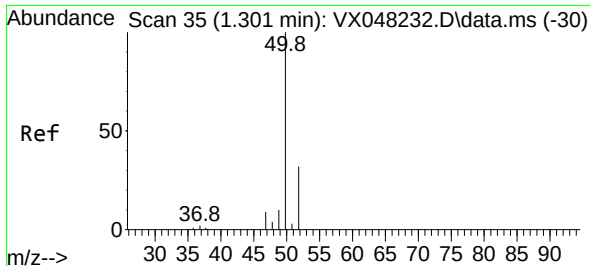
Tgt Ion: 85 Resp: 60391

Ion Ratio Lower Upper

85 100

87 32.4 15.3 45.9





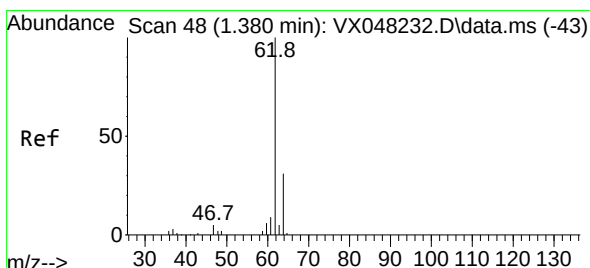
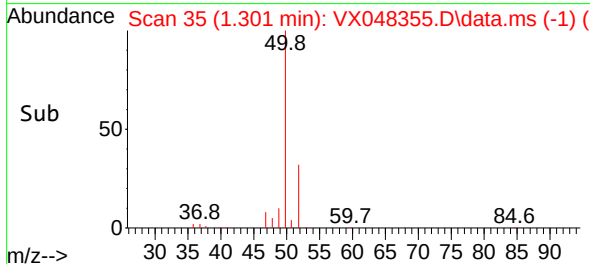
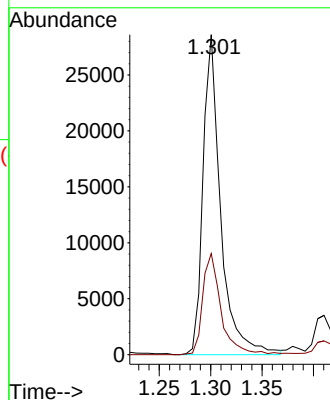
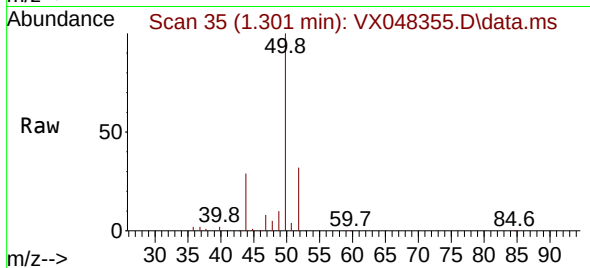
#3
Chloromethane
Concen: 27.693 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 34159
Ion Ratio Lower Upper
50 100
52 31.6 25.9 38.9

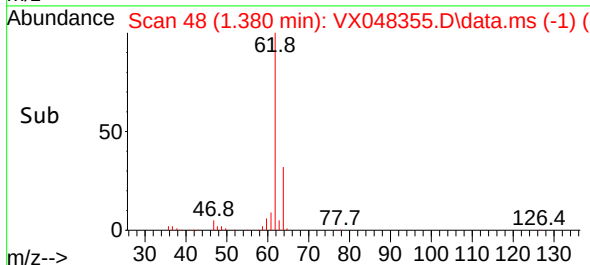
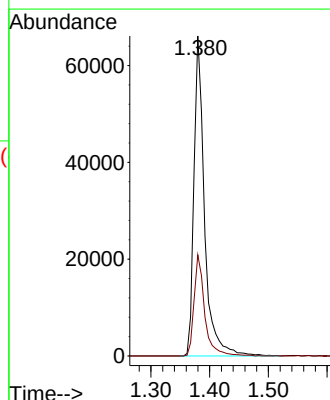
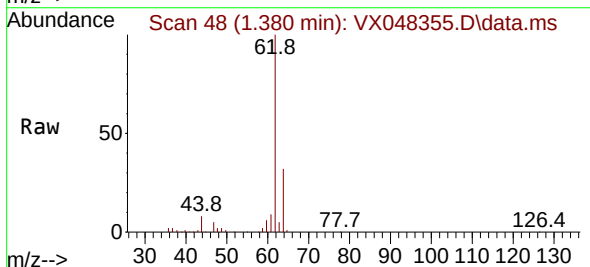
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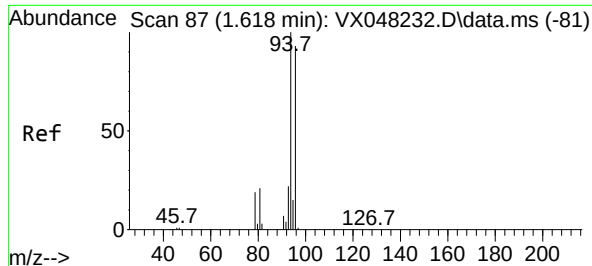
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#4
Vinyl Chloride
Concen: 72.289 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Tgt Ion: 62 Resp: 82569
Ion Ratio Lower Upper
62 100
64 31.6 25.1 37.7





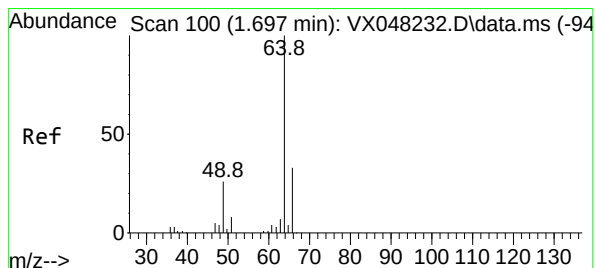
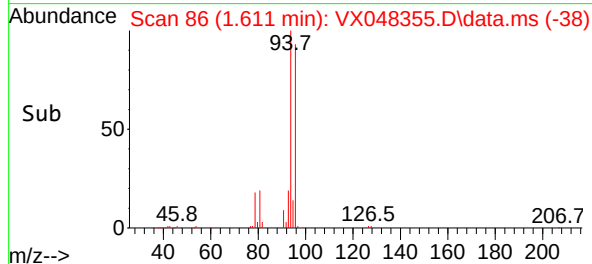
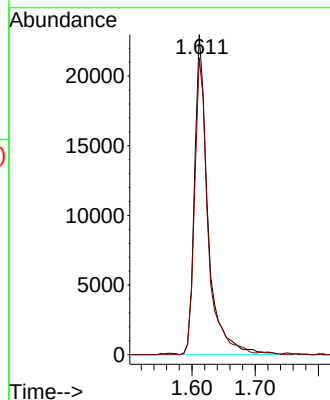
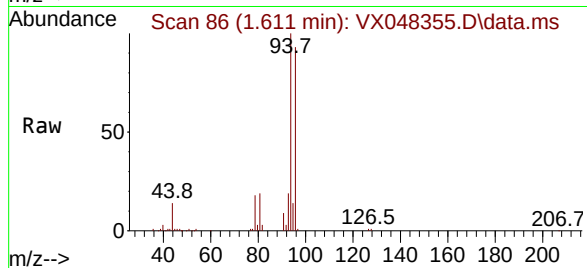
#5
Bromomethane
Concen: 43.964 ug/l
RT: 1.611 min Scan# 80
Delta R.T. -0.006 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 34079
Ion Ratio Lower Upper
94 100
96 92.8 76.0 114.0

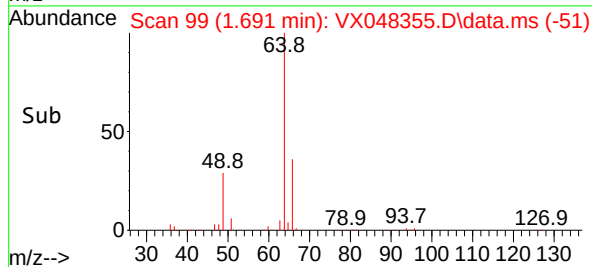
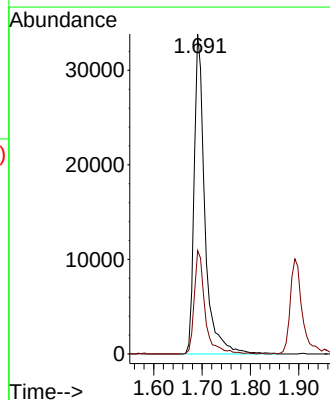
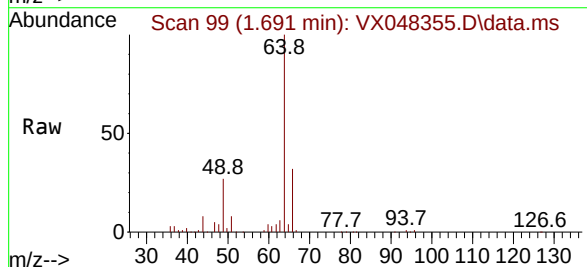
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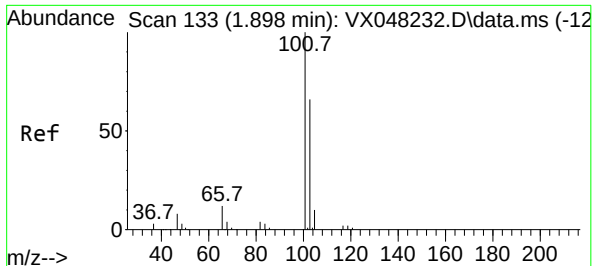
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#6
Chloroethane
Concen: 77.506 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.006 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Tgt Ion: 64 Resp: 52021
Ion Ratio Lower Upper
64 100
66 32.3 23.9 35.9





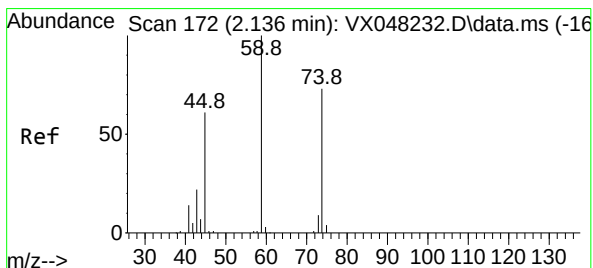
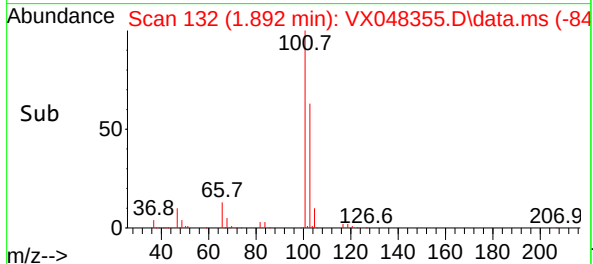
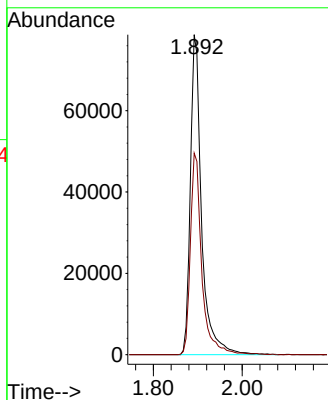
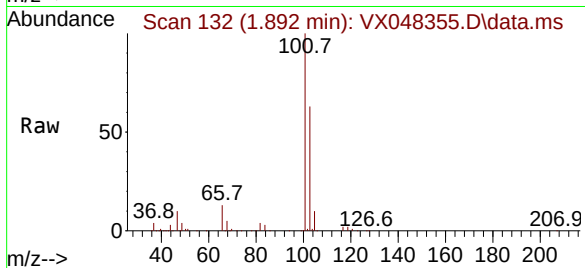
#7
Trichlorofluoromethane
Concen: 62.731 ug/l
RT: 1.892 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 137418
Ion Ratio Lower Upper
101 100
103 63.0 51.6 77.4

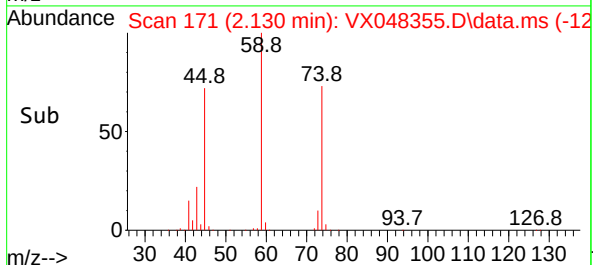
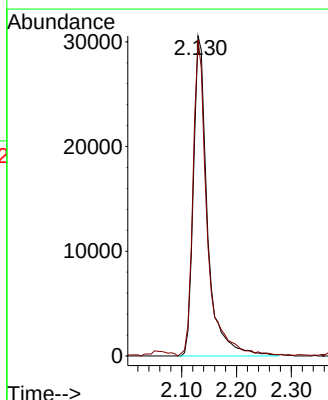
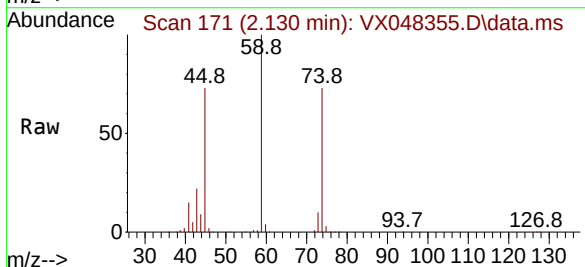
Manual Integrations
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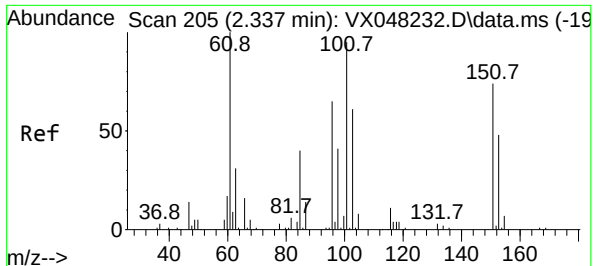
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#8
Diethyl Ether
Concen: 88.813 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Tgt Ion: 74 Resp: 54742
Ion Ratio Lower Upper
74 100
45 100.2 50.0 149.8





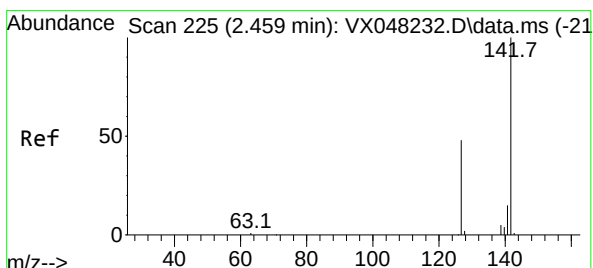
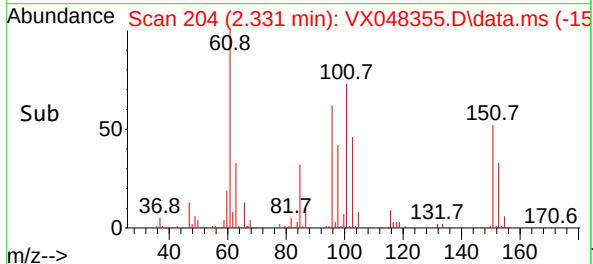
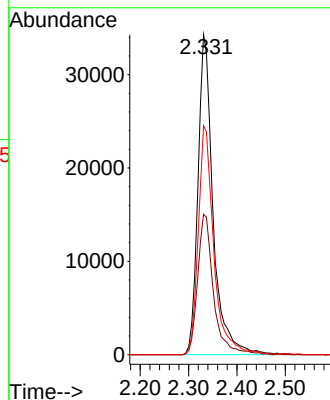
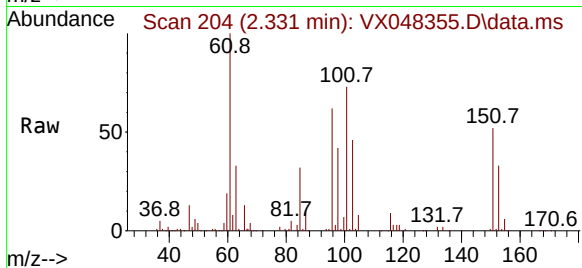
#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.657 ug/l
RT: 2.331 min Scan# 204
Delta R.T. -0.006 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 7443
Ion Ratio Lower Upper
101 100
85 45.9 35.6 53.4
151 73.8 58.0 87.0

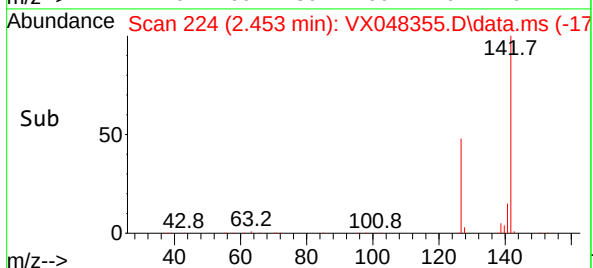
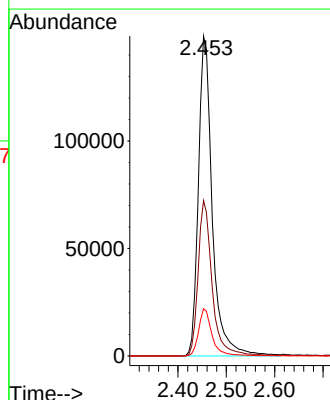
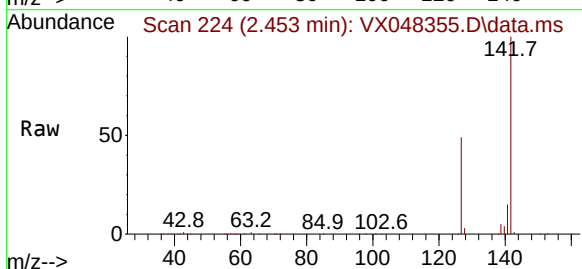
Manual Integrations
APPROVED

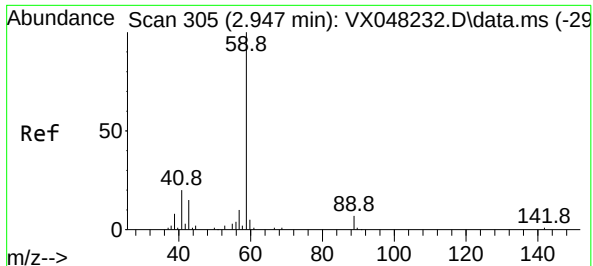
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#10
Methyl Iodide
Concen: 170.651 ug/l
RT: 2.453 min Scan# 224
Delta R.T. -0.006 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Tgt Ion:142 Resp: 297592
Ion Ratio Lower Upper
142 100
127 49.0 38.5 57.7
141 14.3 11.6 17.4





#11

Tert butyl alcohol

Concen: 253.037 ug/l

RT: 2.934 min Scan# 305

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 45280

Ion Ratio Lower Upper

59 100

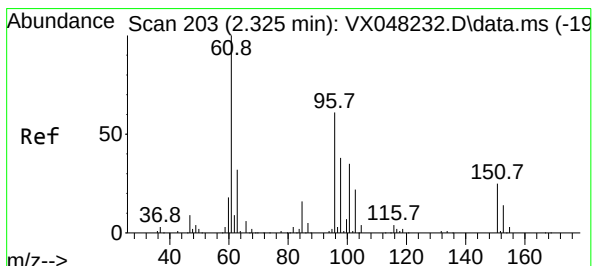
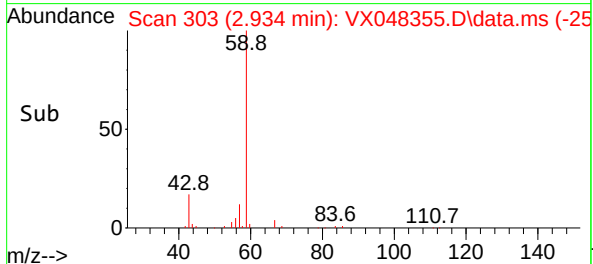
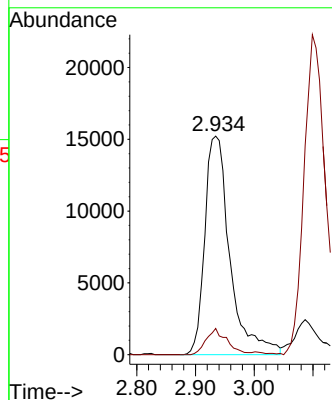
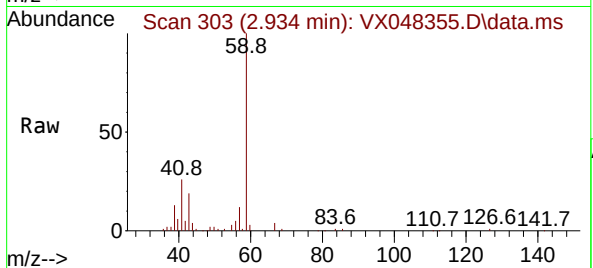
57 10.0 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#12

1,1-Dichloroethene

Concen: 54.714 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

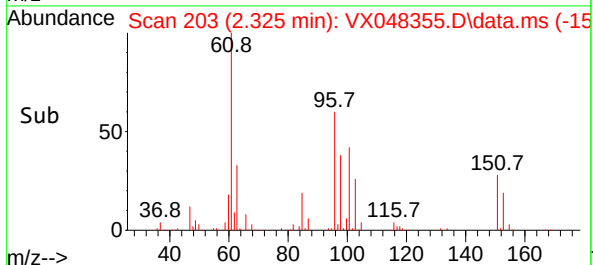
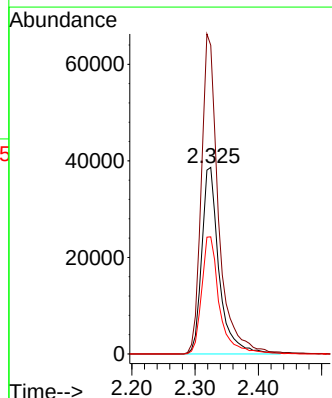
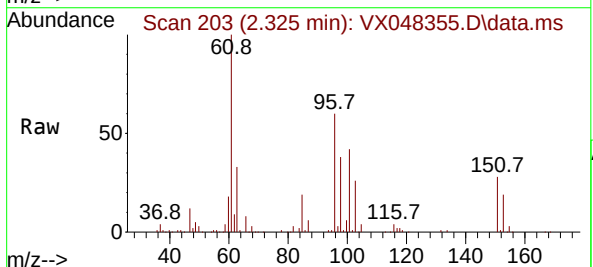
Tgt Ion: 96 Resp: 73840

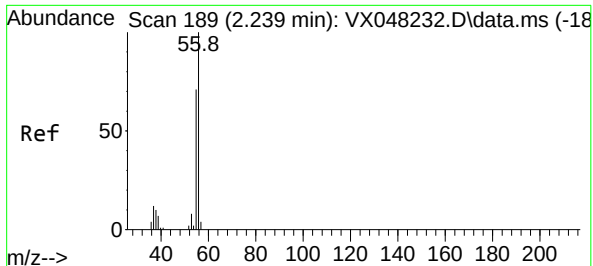
Ion Ratio Lower Upper

96 100

61 165.4 139.0 208.6

98 62.8 52.4 78.6





#13

Acrolein

Concen: 325.021 ug/l

RT: 2.233 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 59318

Ion Ratio Lower Upper

56 100

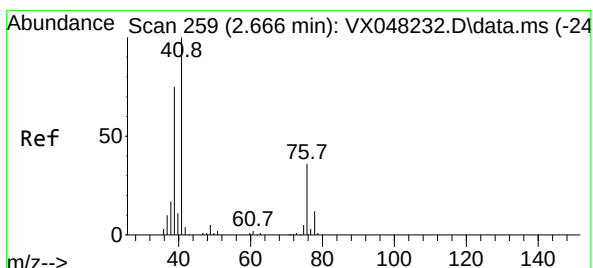
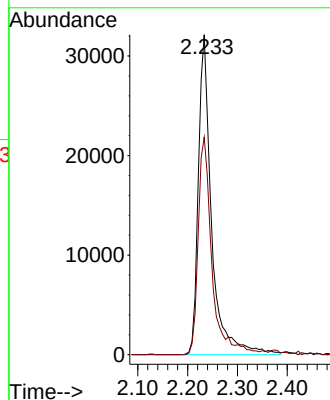
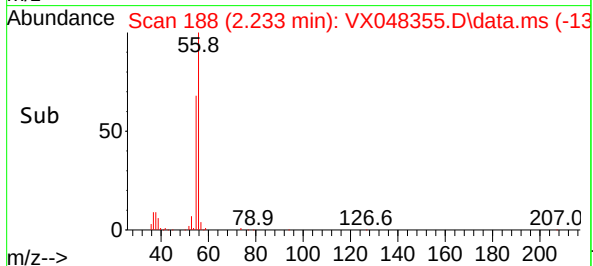
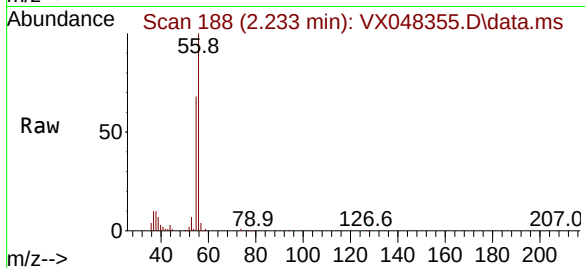
55 70.3 56.1 84.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#14

Allyl chloride

Concen: 60.436 ug/l

RT: 2.660 min Scan# 258

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

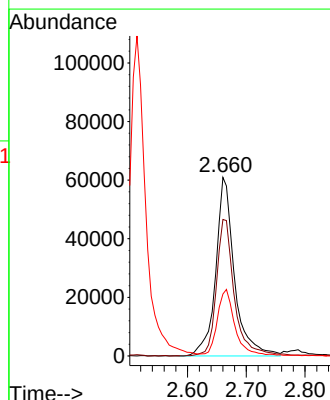
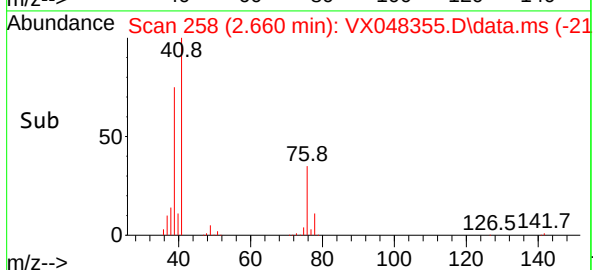
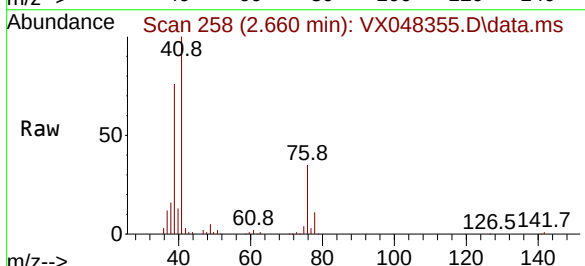
Tgt Ion: 41 Resp: 135414

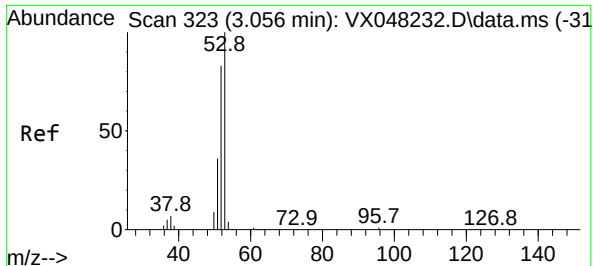
Ion Ratio Lower Upper

41 100

39 73.4 56.0 84.0

76 35.2 27.5 41.3





#15

Acrylonitrile

Concen: 294.566 ug/l

RT: 3.050 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 53 Resp: 190072

Ion Ratio Lower Upper

53 100

52 80.7 66.1 99.1

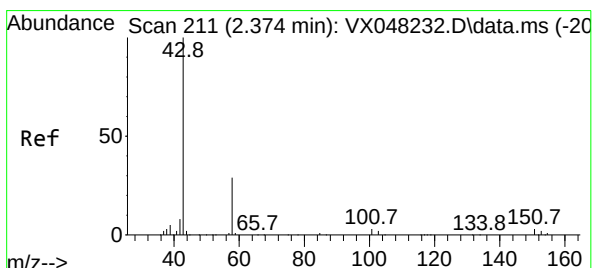
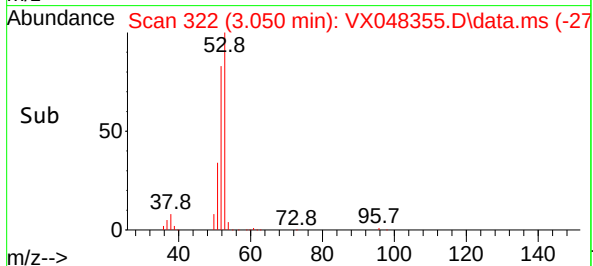
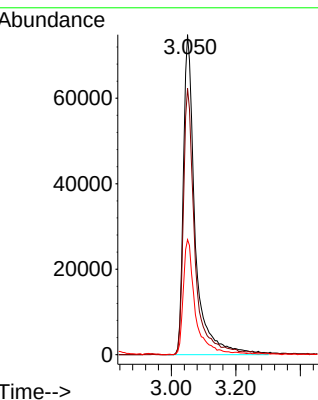
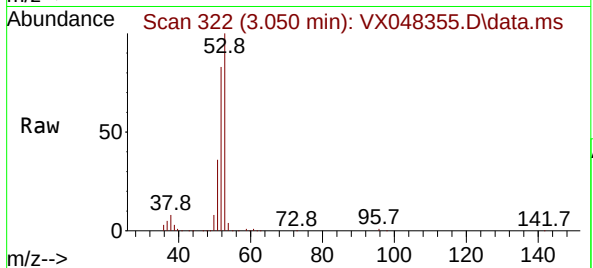
51 36.5 29.0 43.4

Manual Integrations

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Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#16

Acetone

Concen: 164.135 ug/l

RT: 2.373 min Scan# 211

Delta R.T. -0.000 min

Lab File: VX048355.D

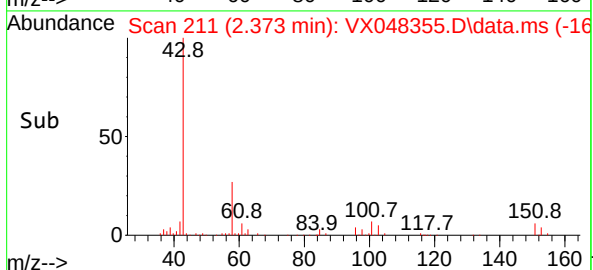
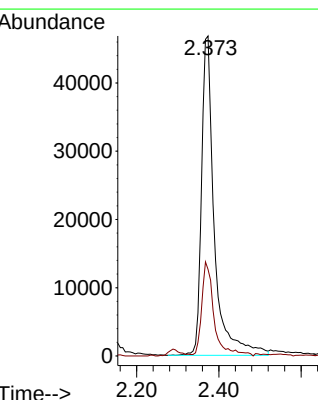
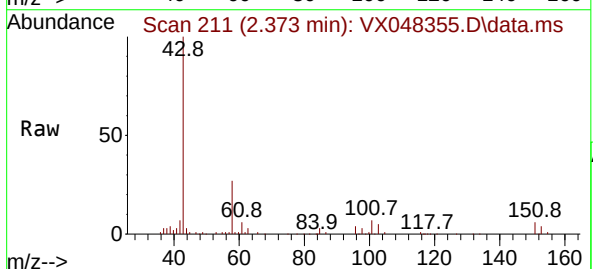
Acq: 27 Oct 2025 09:05

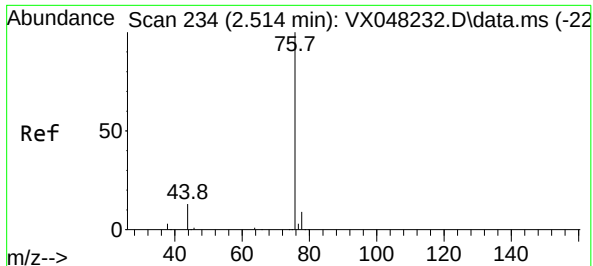
Tgt Ion: 43 Resp: 101484

Ion Ratio Lower Upper

43 100

58 28.2 23.4 35.2





#17

Carbon Disulfide

Concen: 48.462 ug/l

RT: 2.514 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 206120

Ion Ratio Lower Upper

76 100

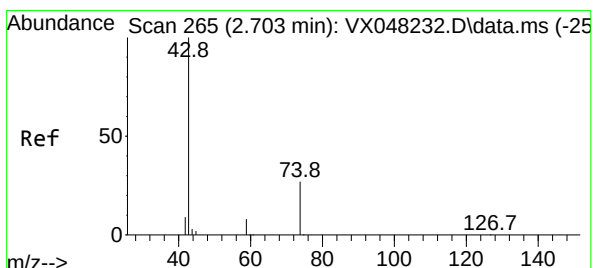
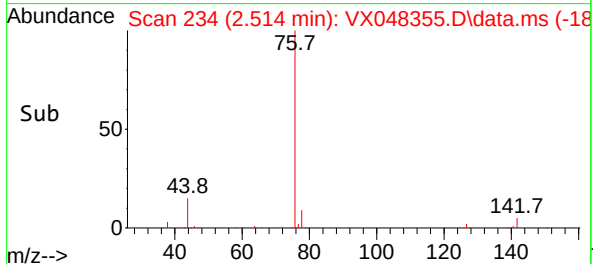
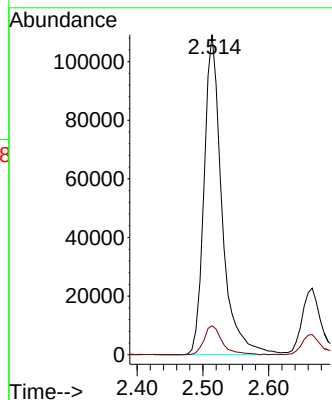
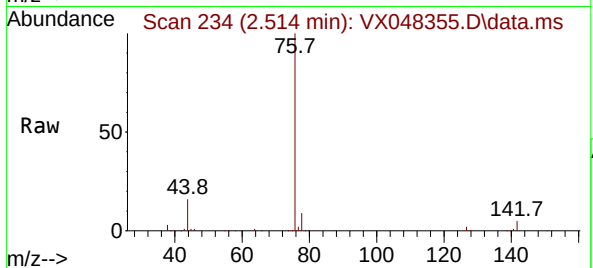
78 9.1 7.1 10.7

Manual Integrations

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Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#18

Methyl Acetate

Concen: 63.795 ug/l

RT: 2.691 min Scan# 263

Delta R.T. -0.006 min

Lab File: VX048355.D

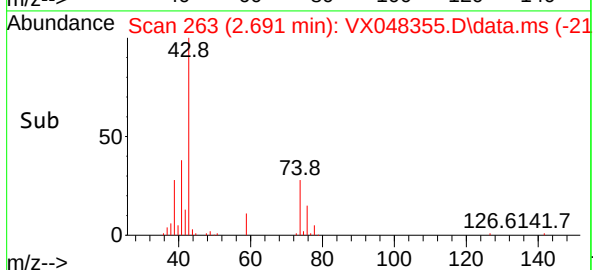
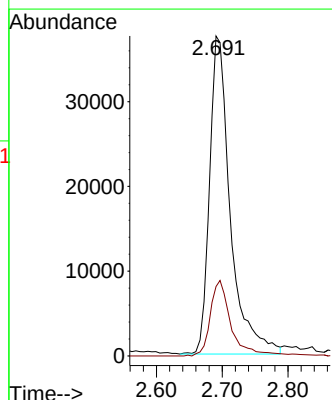
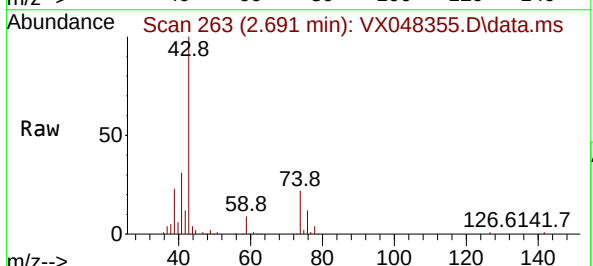
Acq: 27 Oct 2025 09:05

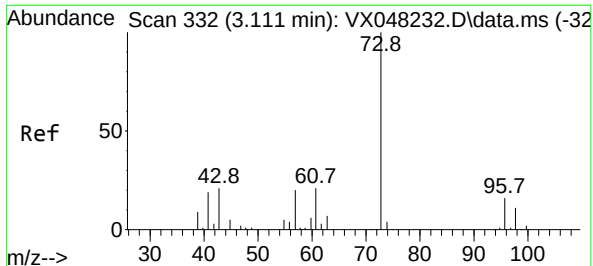
Tgt Ion: 43 Resp: 82375

Ion Ratio Lower Upper

43 100

74 23.6 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 61.239 ug/l

RT: 3.105 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 28194

Ion Ratio Lower Upper

73 100

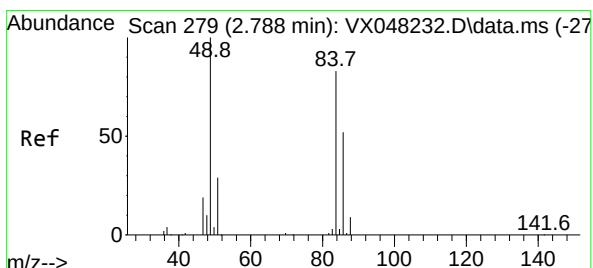
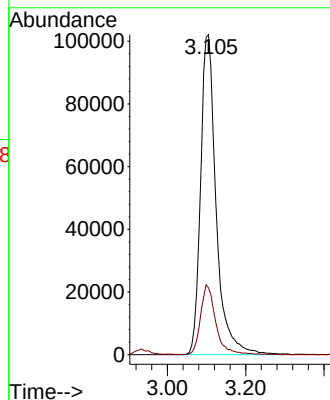
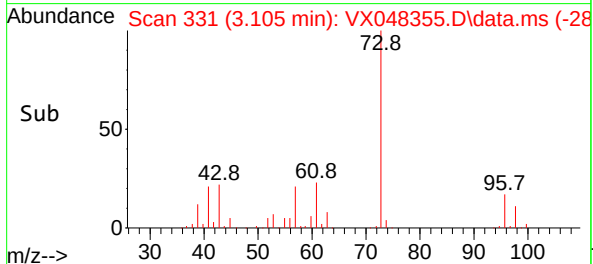
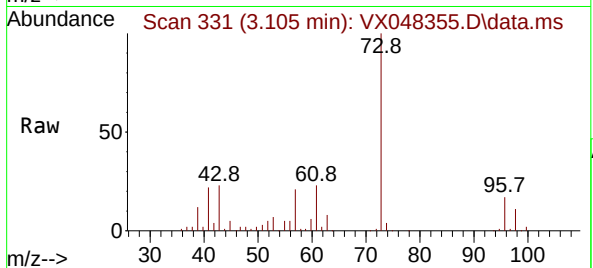
57 20.9 17.7 26.5

Manual Integrations

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Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#20

Methylene Chloride

Concen: 59.186 ug/l

RT: 2.782 min Scan# 278

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Tgt Ion: 84 Resp: 89167

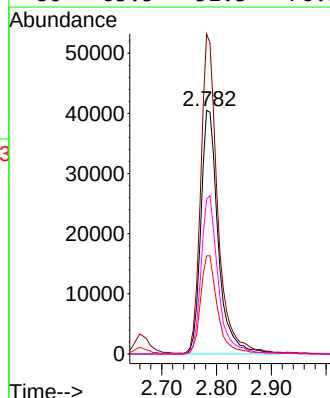
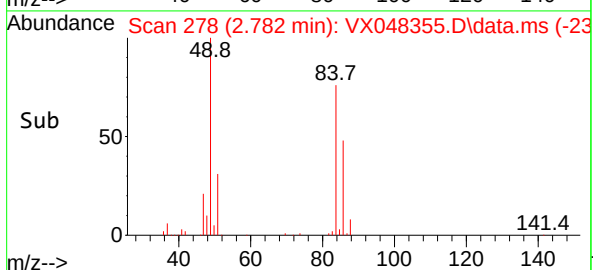
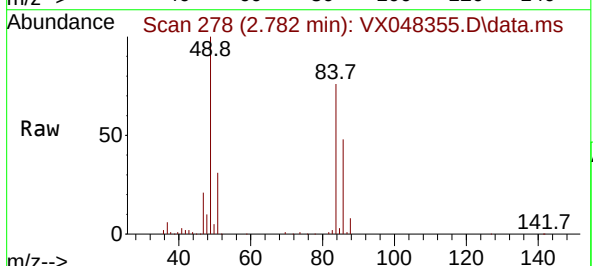
Ion Ratio Lower Upper

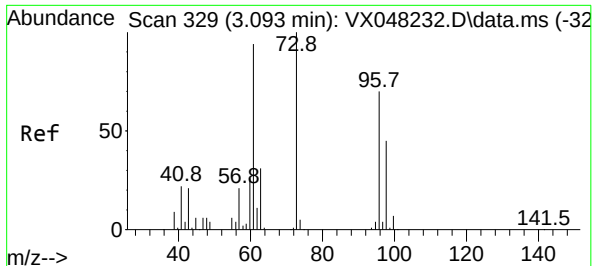
84 100

49 131.0 104.1 156.1

51 40.3 31.3 46.9

86 63.5 51.3 76.9





#21

trans-1,2-Dichloroethene

Concen: 55.112 ug/l

RT: 3.087 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 81699

Ion Ratio Lower Upper

96 100

61 147.1 111.9 167.9

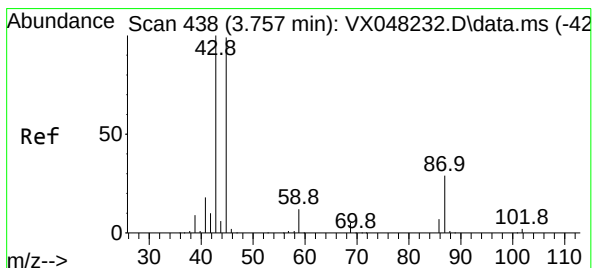
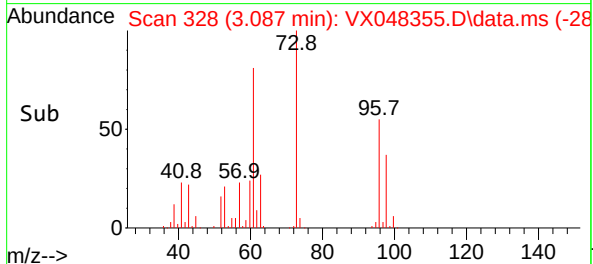
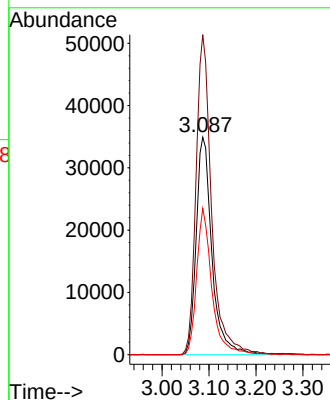
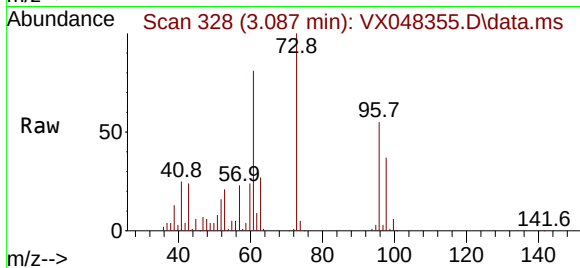
98 67.2 51.2 76.8

Manual Integrations

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Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#22

Diisopropyl ether

Concen: 68.579 ug/l

RT: 3.745 min Scan# 436

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Tgt Ion: 45 Resp: 306477

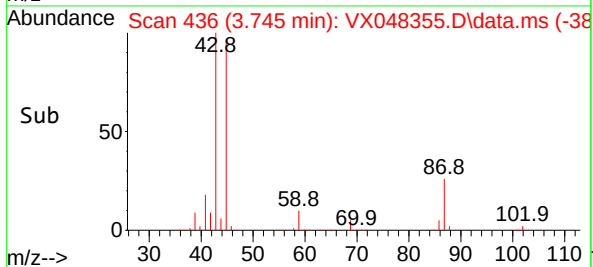
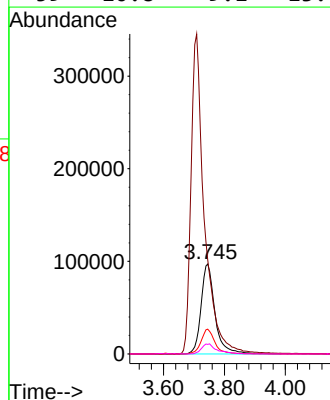
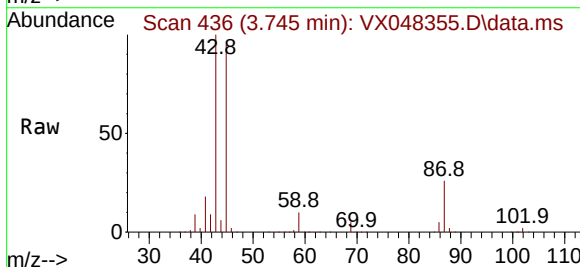
Ion Ratio Lower Upper

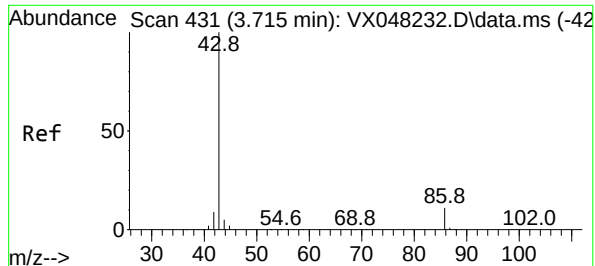
45 100

43 104.3 89.8 134.8

87 27.6 20.6 31.0

59 10.8 9.1 13.7





#23

Vinyl Acetate

Concen: 296.708 ug/l

RT: 3.709 min Scan# 41

Delta R.T. -0.006 min

Lab File: VX048355.D

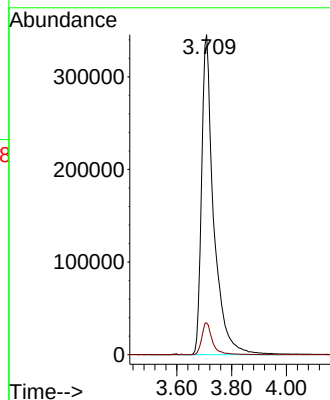
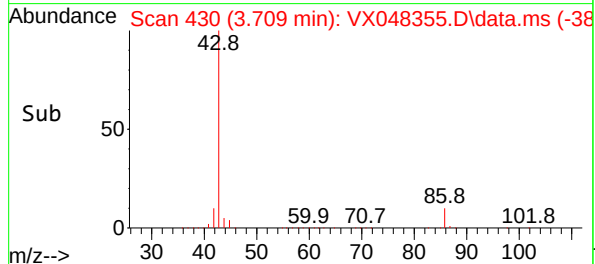
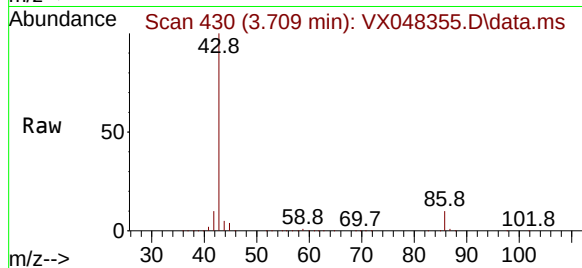
Acq: 27 Oct 2025 09:05

Tgt Ion: 43 Resp: 1059204

Ion Ratio Lower Upper

43 100

86 9.9 7.9 11.9



Instrument :

MSVOA_X

ClientSampleId :

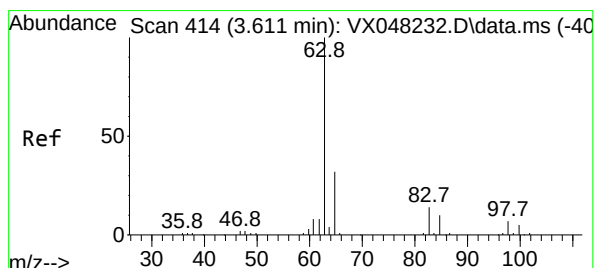
VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#24

1,1-Dichloroethane

Concen: 60.256 ug/l

RT: 3.599 min Scan# 412

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

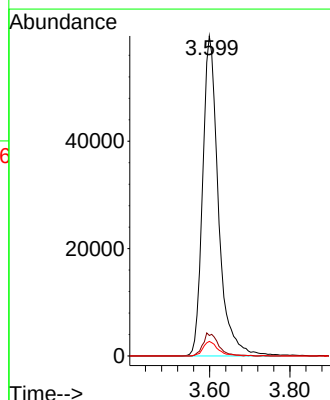
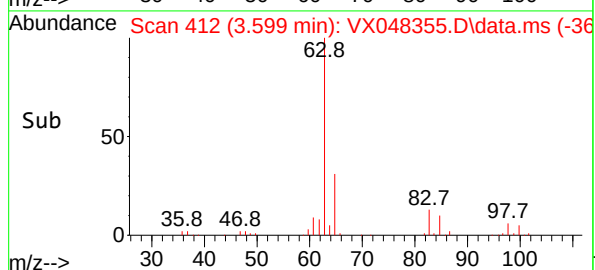
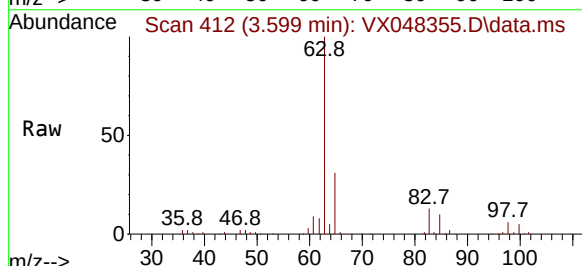
Tgt Ion: 63 Resp: 162828

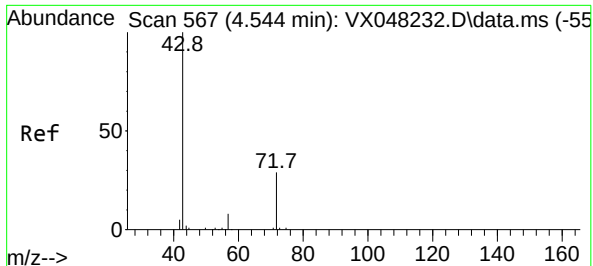
Ion Ratio Lower Upper

63 100

98 6.4 3.5 10.6

100 4.5 2.1 6.3





#25

2-Butanone

Concen: 228.555 ug/l

RT: 4.526 min Scan# 5

Delta R.T. -0.012 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 17886

Ion Ratio Lower Upper

43

100

72

23.1

19.9

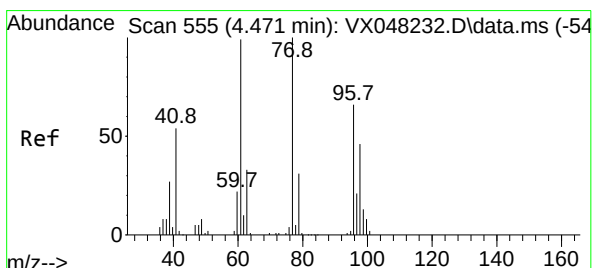
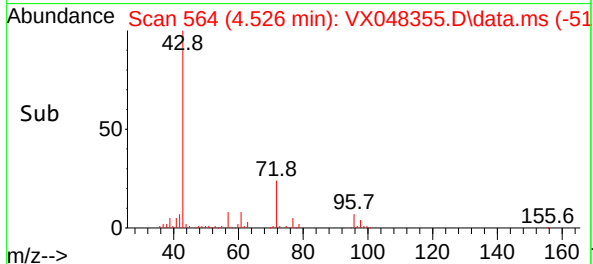
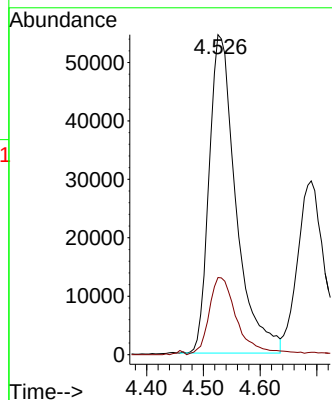
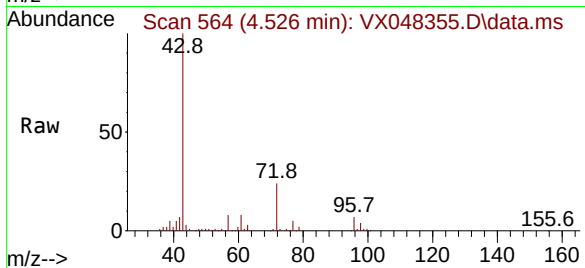
29.9

Manual Integrations

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Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#26

2,2-Dichloropropane

Concen: 57.720 ug/l

RT: 4.458 min Scan# 553

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Tgt Ion: 77 Resp: 140783

Ion Ratio Lower Upper

77

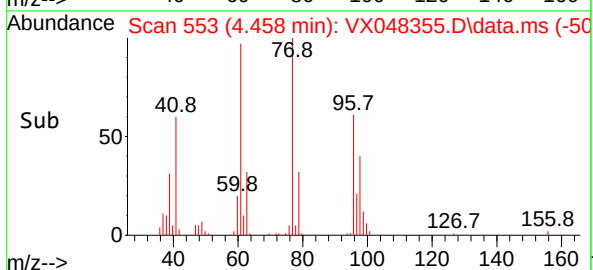
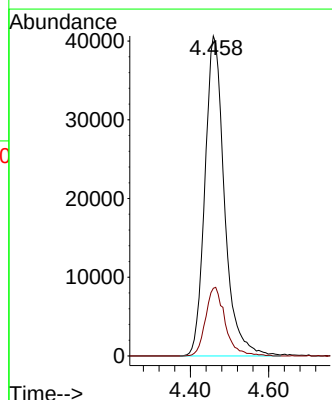
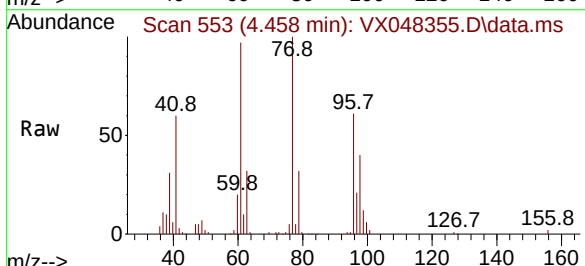
100

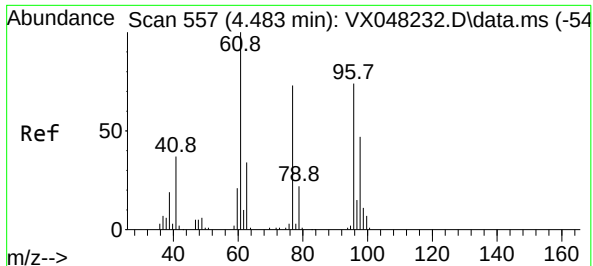
97

21.6

11.1

33.3





#27

cis-1,2-Dichloroethene

Concen: 58.953 ug/l

RT: 4.477 min Scan# 556

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 101994

Ion Ratio Lower Upper

96 100

61 150.6 0.0 294.2

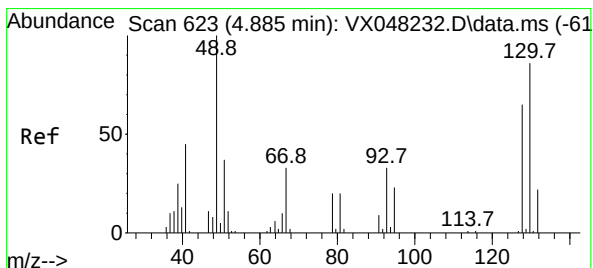
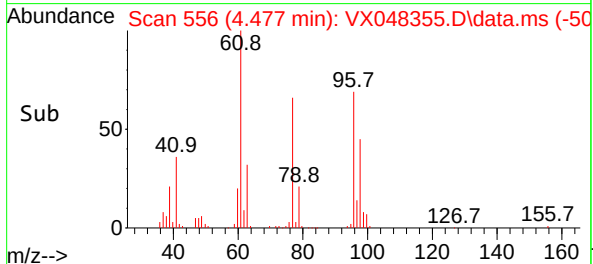
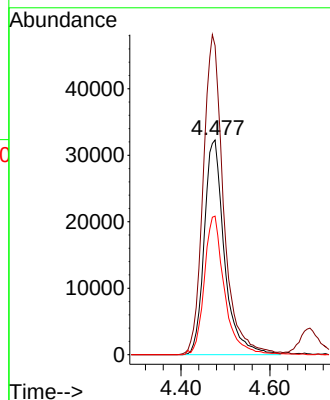
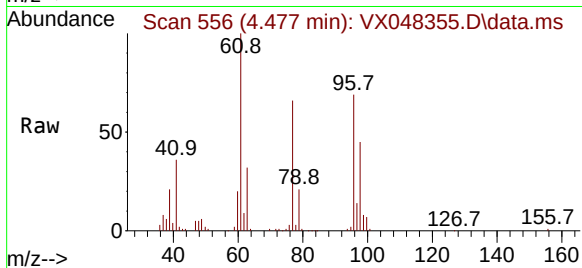
98 64.7 0.0 128.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#28

Bromochloromethane

Concen: 58.793 ug/l

RT: 4.879 min Scan# 622

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

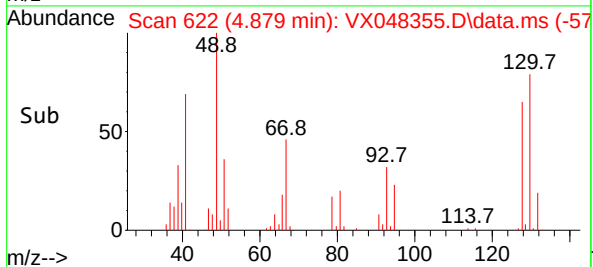
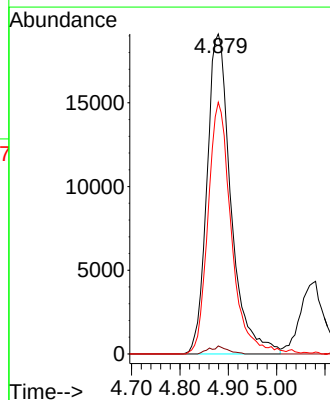
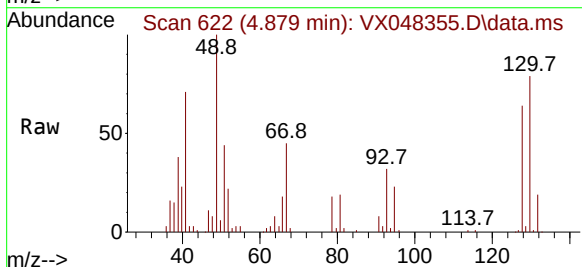
Tgt Ion: 49 Resp: 65875

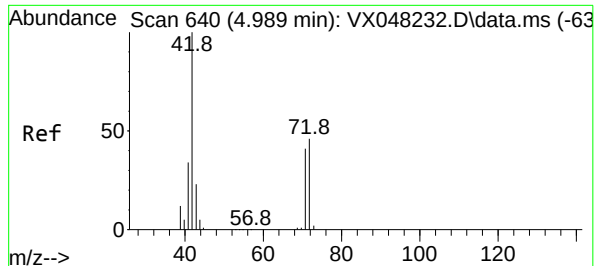
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.4

130 76.4 59.3 88.9





#29

Tetrahydrofuran

Concen: 289.781 ug/l

RT: 4.983 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 13582

Ion Ratio Lower Upper

42 100

72 45.7 35.3 52.9

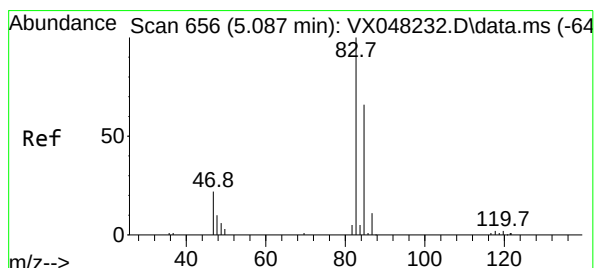
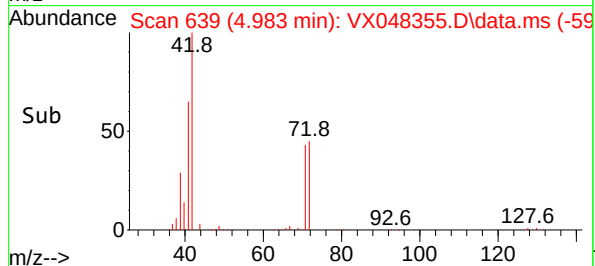
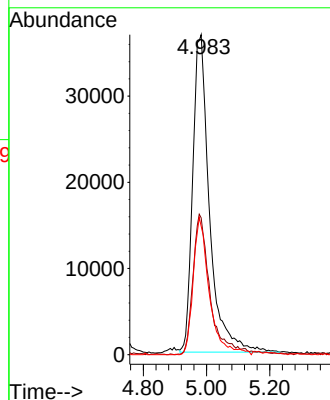
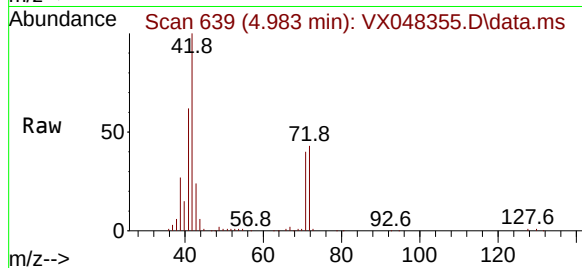
71 40.7 32.2 48.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#30

Chloroform

Concen: 59.771 ug/l

RT: 5.074 min Scan# 654

Delta R.T. -0.006 min

Lab File: VX048355.D

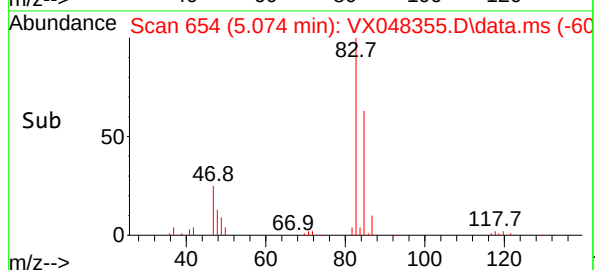
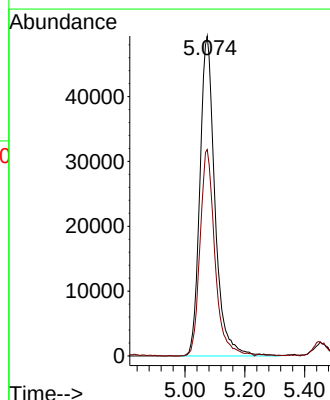
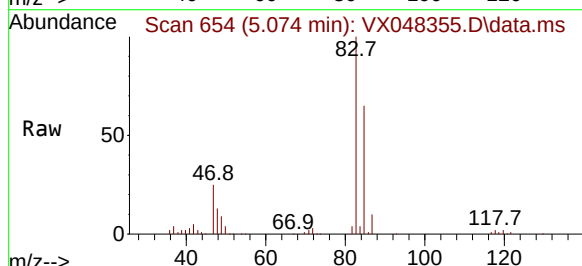
Acq: 27 Oct 2025 09:05

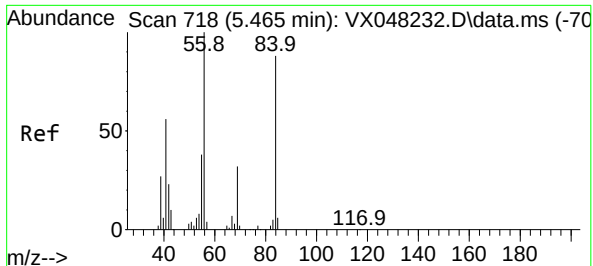
Tgt Ion: 83 Resp: 172560

Ion Ratio Lower Upper

83 100

85 64.5 50.1 75.1





#31

Cyclohexane

Concen: 55.187 ug/l

RT: 5.452 min Scan# 716

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 123464

Ion Ratio Lower Upper

56 100

69 29.7 23.0 34.6

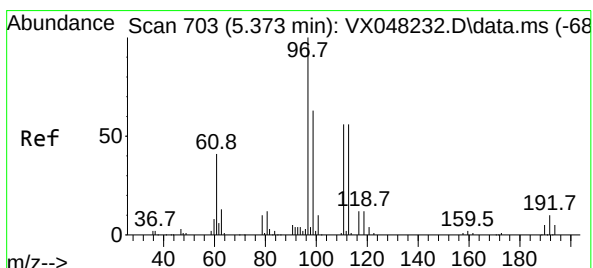
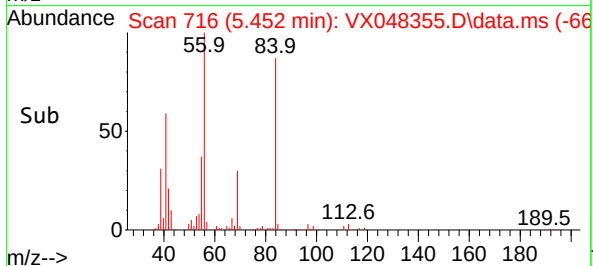
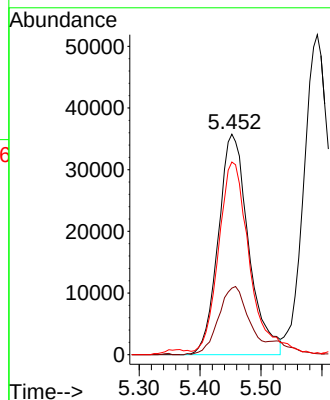
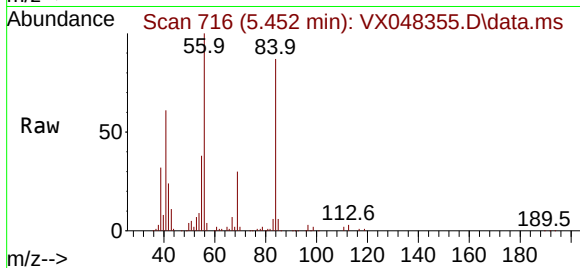
84 84.6 64.6 97.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#32

1,1,1-Trichloroethane

Concen: 54.644 ug/l

RT: 5.367 min Scan# 702

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

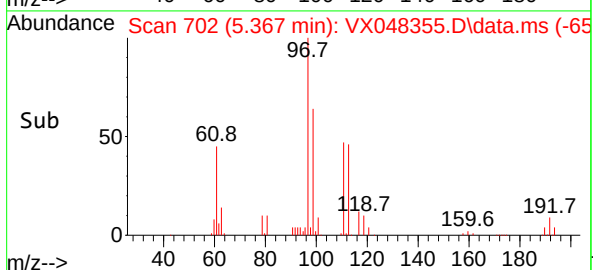
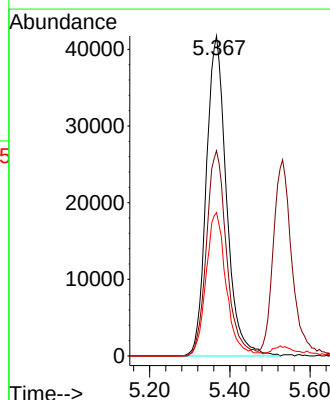
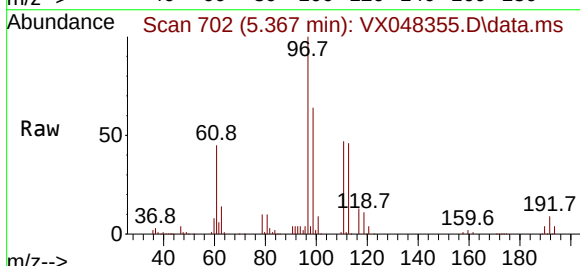
Tgt Ion: 97 Resp: 145395

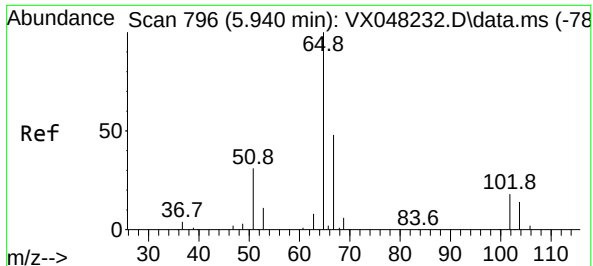
Ion Ratio Lower Upper

97 100

99 64.2 51.7 77.5

61 45.0 34.8 52.2





#33

1,2-Dichloroethane-d4

Concen: 57.124 ug/l

RT: 5.934 min Scan# 79

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 10295

Ion Ratio Lower Upper

65 100

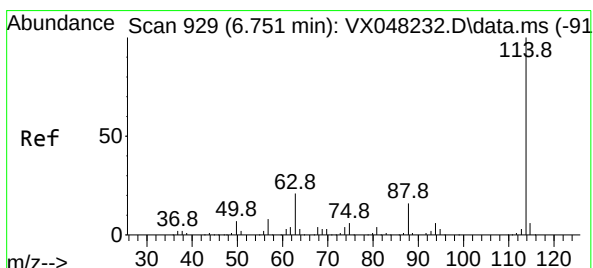
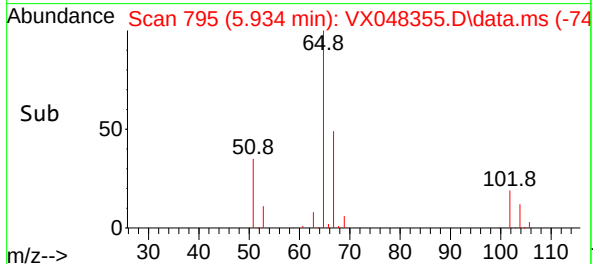
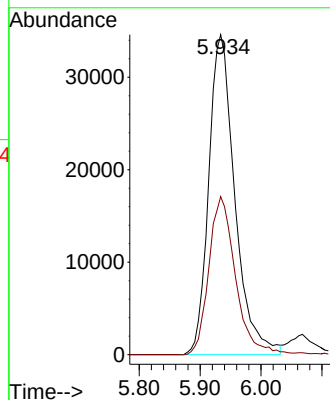
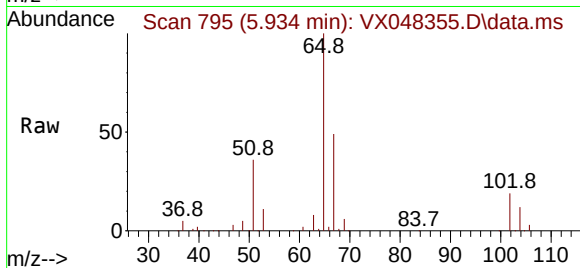
67 50.4 0.0 105.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.739 min Scan# 927

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

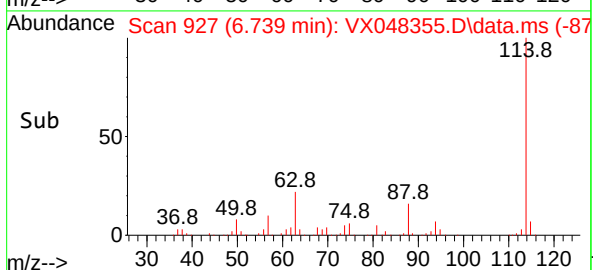
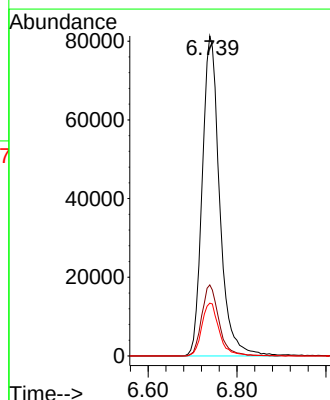
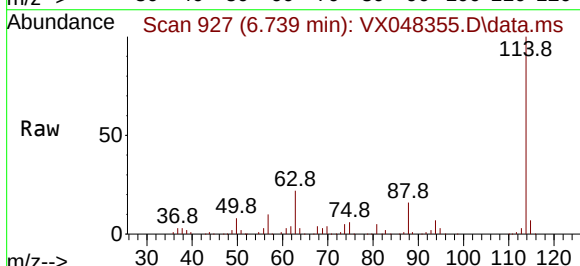
Tgt Ion:114 Resp: 221660

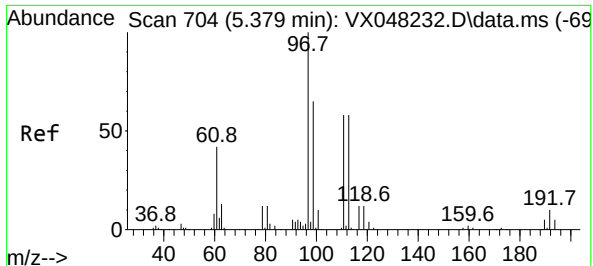
Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.2

88 16.5 0.0 33.6





#35

Dibromofluoromethane

Concen: 43.199 ug/l

RT: 5.361 min Scan# 704

Delta R.T. -0.012 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

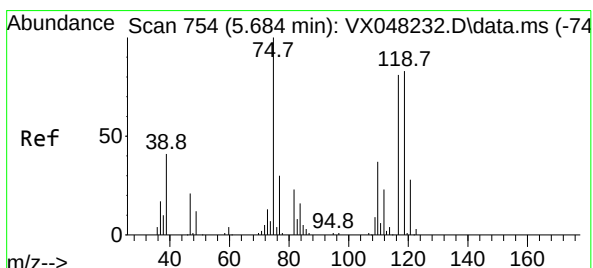
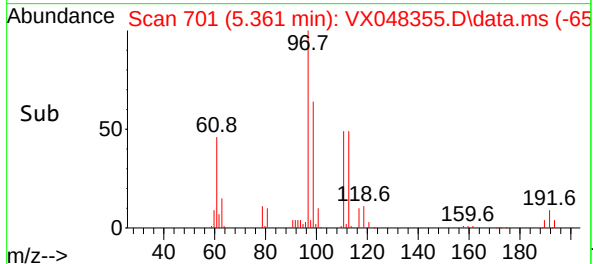
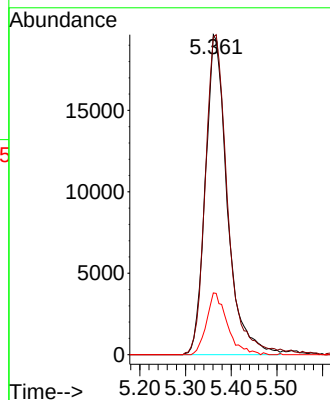
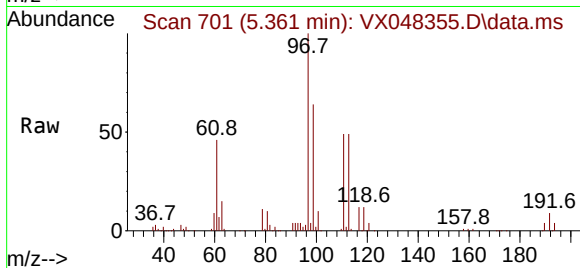
Tgt Ion:	113	Resp:	6537
Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.2	123.4
192	18.3	15.1	22.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#36

1,1-Dichloropropene

Concen: 48.656 ug/l

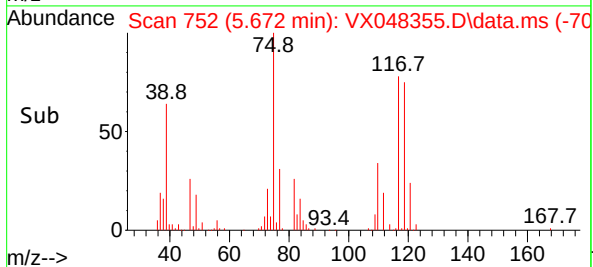
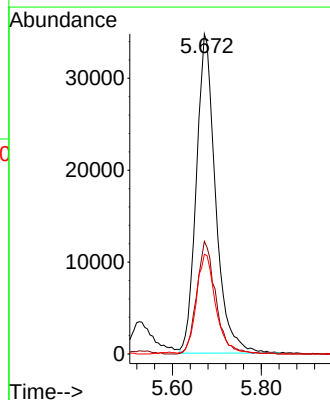
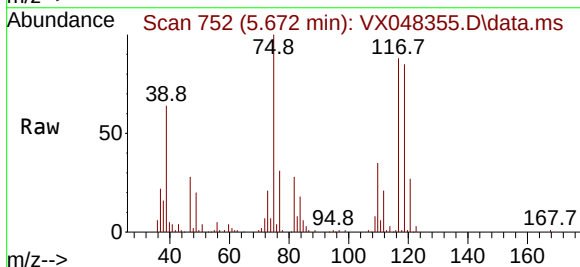
RT: 5.672 min Scan# 752

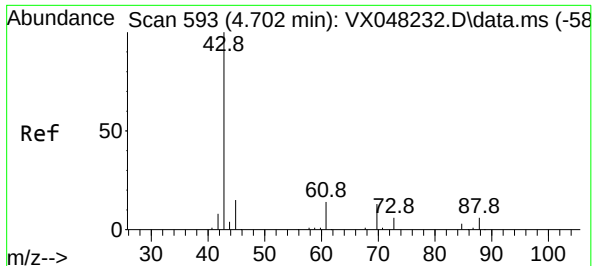
Delta R.T. -0.012 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Tgt Ion:	75	Resp:	104651
Ion	Ratio	Lower	Upper
75	100		
110	34.7	17.7	53.1
77	31.3	24.3	36.5





#37

Ethyl Acetate

Concen: 53.952 ug/l

RT: 4.690 min Scan# 591

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

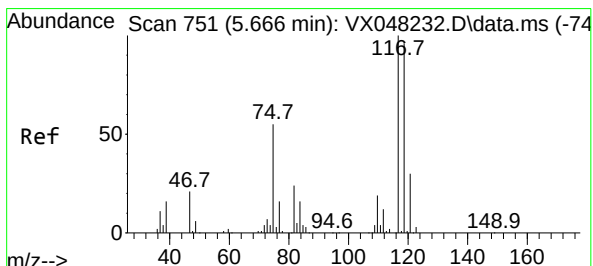
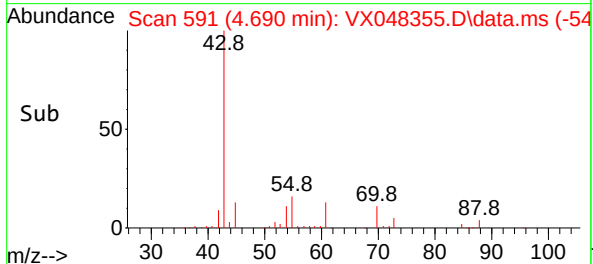
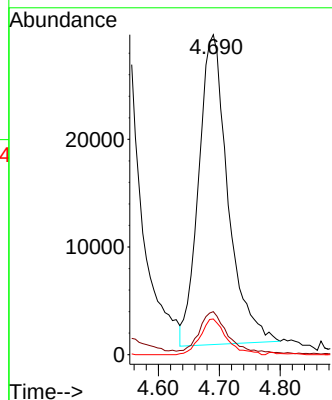
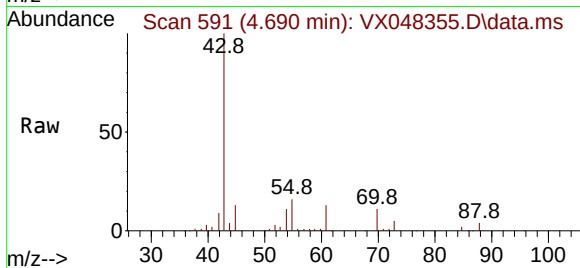
ClientSampleId :

VSTDCCC050

Tgt Ion:	43	Resp:	96184
Ion	Ratio	Lower	Upper
43	100		
61	13.0	10.6	15.8
70	10.3	7.8	11.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#38

Carbon Tetrachloride

Concen: 45.877 ug/l

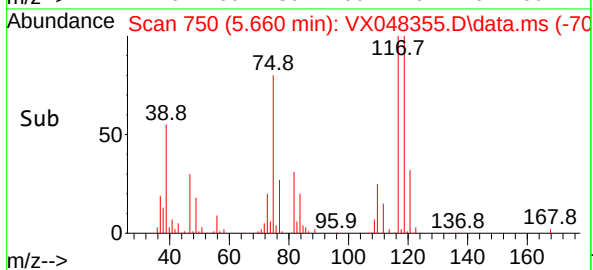
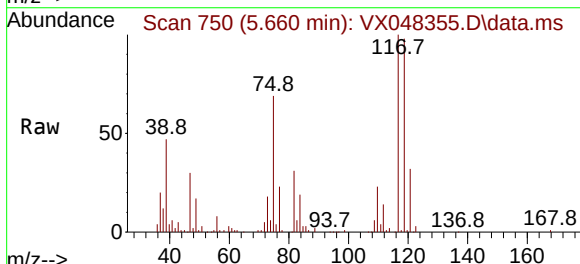
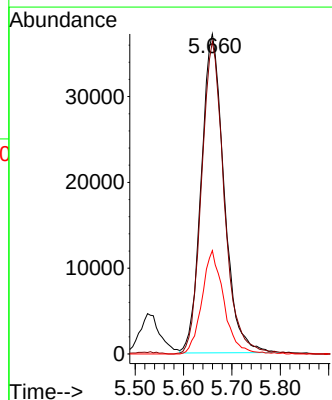
RT: 5.660 min Scan# 750

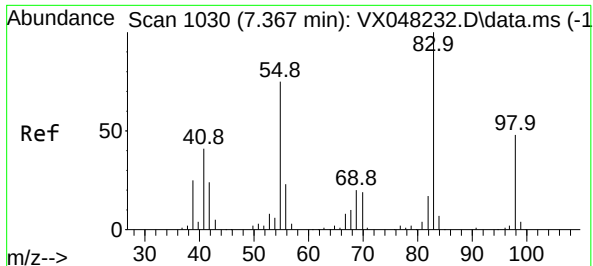
Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Tgt Ion:	117	Resp:	121738
Ion	Ratio	Lower	Upper
117	100		
119	97.8	77.2	115.8
121	32.5	24.8	37.2





#39

Methylcyclohexane

Concen: 50.642 ug/l

RT: 7.360 min Scan# 1030

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 128630

Ion Ratio Lower Upper

83 100

55 80.2 66.2 99.2

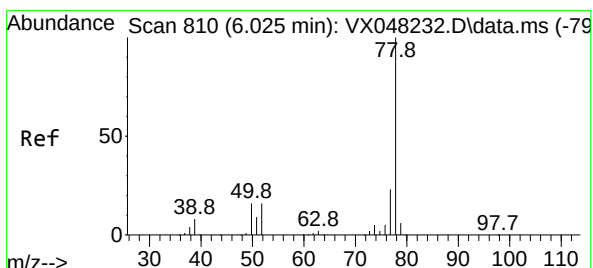
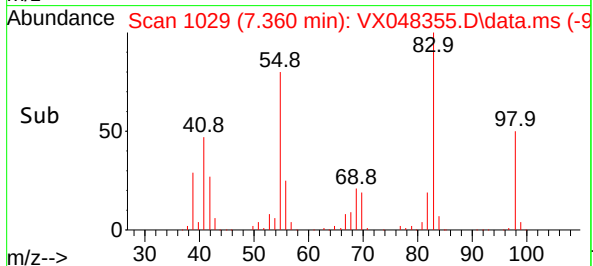
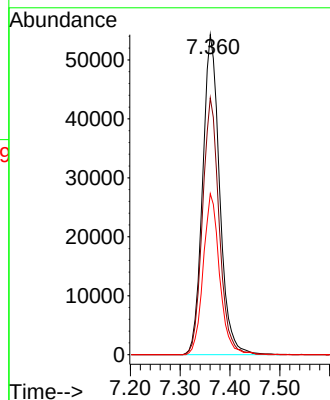
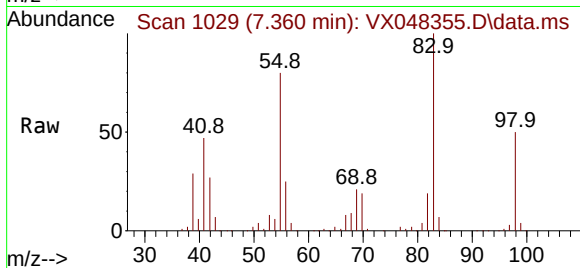
98 50.3 38.9 58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#40

Benzene

Concen: 53.954 ug/l

RT: 6.019 min Scan# 809

Delta R.T. -0.006 min

Lab File: VX048355.D

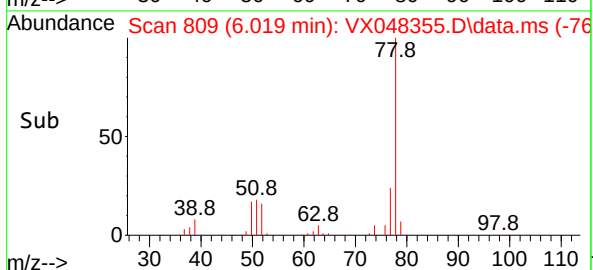
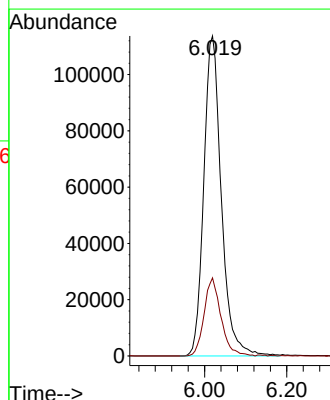
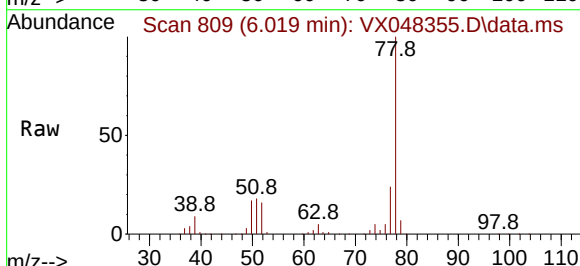
Acq: 27 Oct 2025 09:05

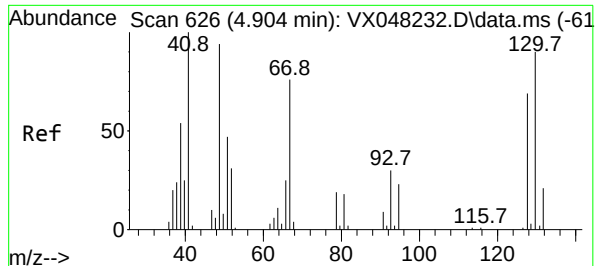
Tgt Ion: 78 Resp: 336921

Ion Ratio Lower Upper

78 100

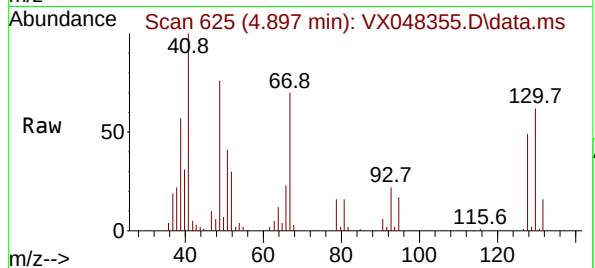
77 24.4 19.3 28.9





#41
Methacrylonitrile
Concen: 58.033 ug/l
RT: 4.897 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

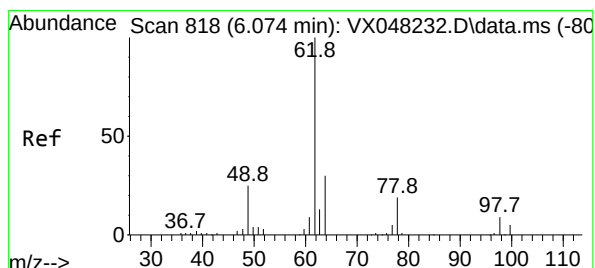
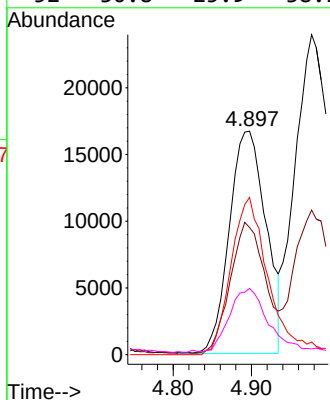
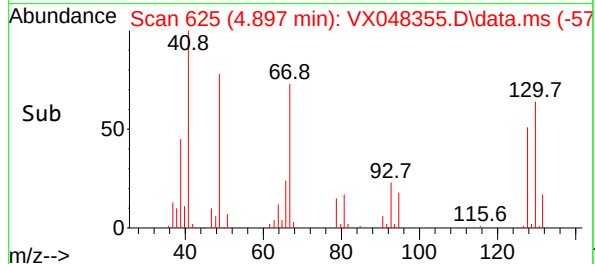
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 41 Resp: 5433
Ion Ratio Lower Upper
41 100
39 55.9 44.0 66.0
67 75.0 58.7 88.1
52 30.8 25.9 38.9

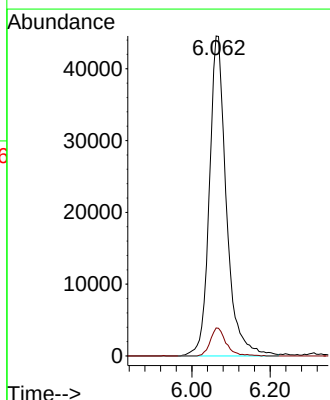
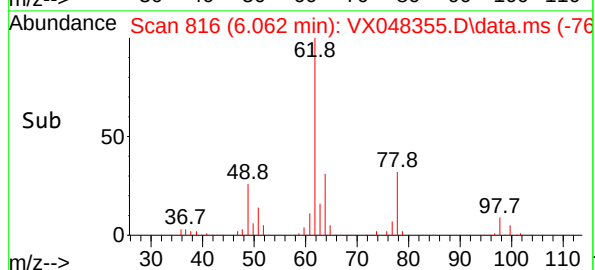
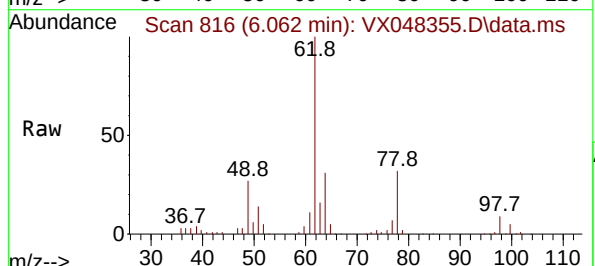
Manual Integrations
APPROVED

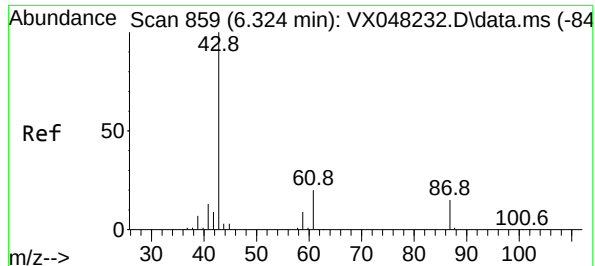
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#42
1,2-Dichloroethane
Concen: 58.388 ug/l
RT: 6.062 min Scan# 816
Delta R.T. -0.006 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Tgt Ion: 62 Resp: 134544
Ion Ratio Lower Upper
62 100
98 8.2 0.0 17.2





#43

Isopropyl Acetate

Concen: 59.642 ug/l

RT: 6.312 min Scan# 81

Delta R.T. -0.012 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 17465

Ion Ratio Lower Upper

43 100

61 18.6 14.9 22.3

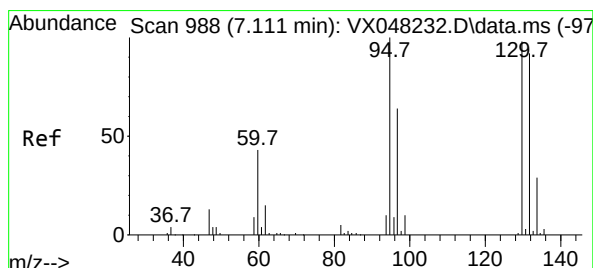
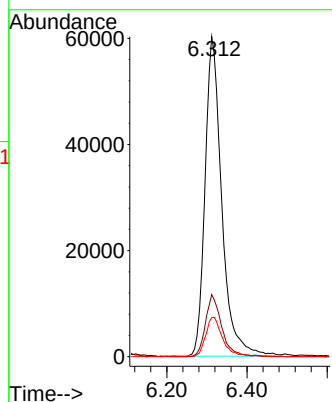
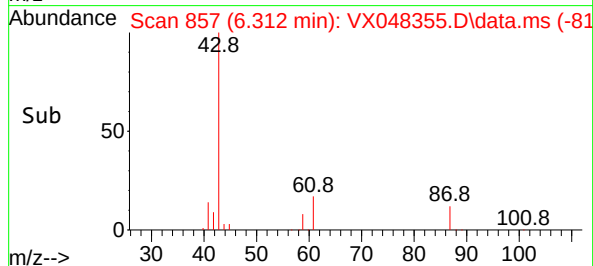
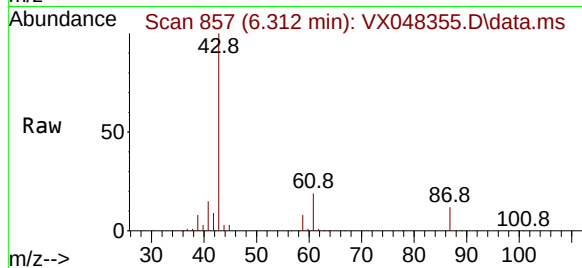
87 12.6 9.4 14.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#44

Trichloroethene

Concen: 51.365 ug/l

RT: 7.104 min Scan# 987

Delta R.T. -0.006 min

Lab File: VX048355.D

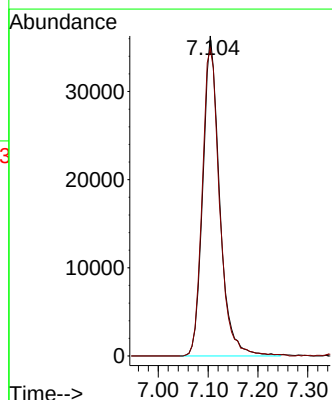
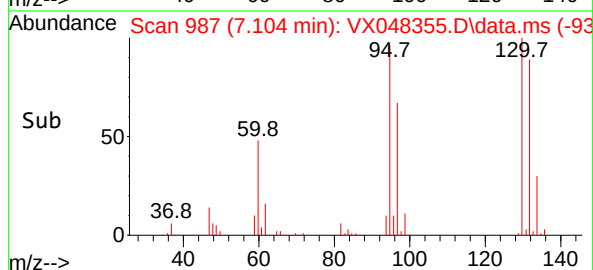
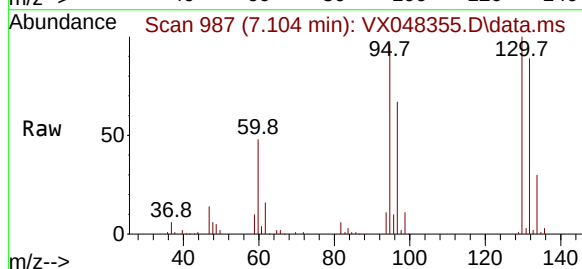
Acq: 27 Oct 2025 09:05

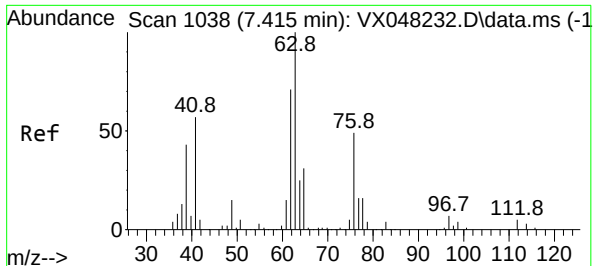
Tgt Ion:130 Resp: 84695

Ion Ratio Lower Upper

130 100

95 96.1 0.0 200.6





#45

1,2-Dichloropropane

Concen: 58.961 ug/l

RT: 7.409 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 87538

Ion Ratio Lower Upper

63 100

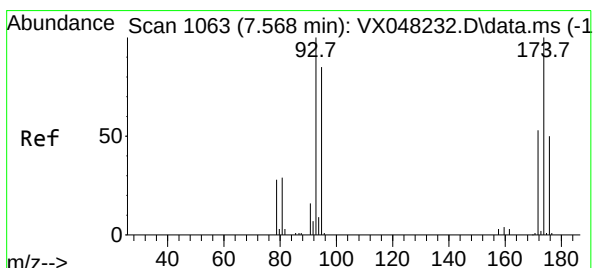
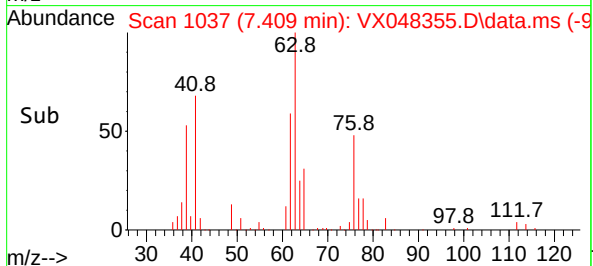
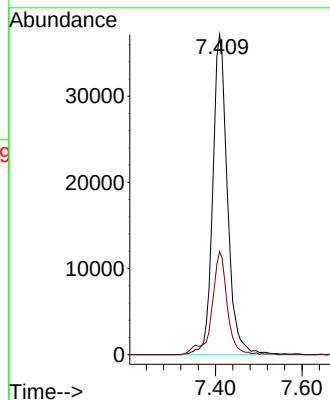
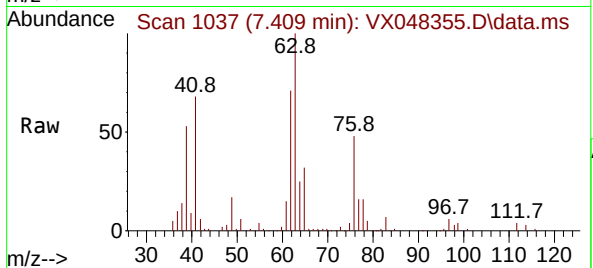
65 32.2 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#46

Dibromomethane

Concen: 55.674 ug/l

RT: 7.562 min Scan# 1062

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

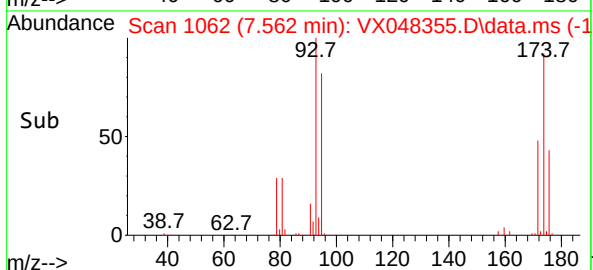
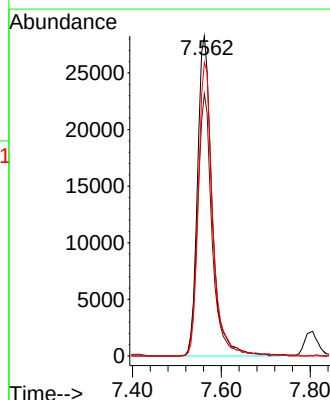
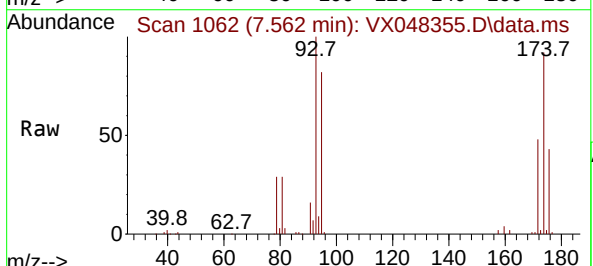
Tgt Ion: 93 Resp: 64397

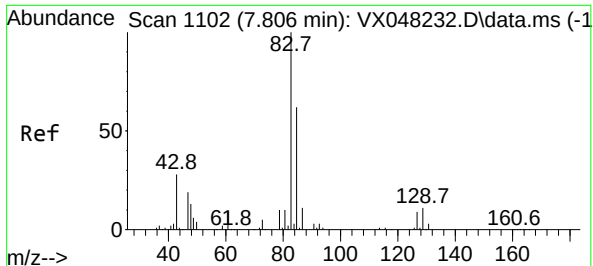
Ion Ratio Lower Upper

93 100

95 81.2 65.9 98.9

174 91.2 71.7 107.5





#47

Bromodichloromethane

Concen: 55.643 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 138960

Ion Ratio Lower Upper

83 100

85 63.8 52.2 78.4

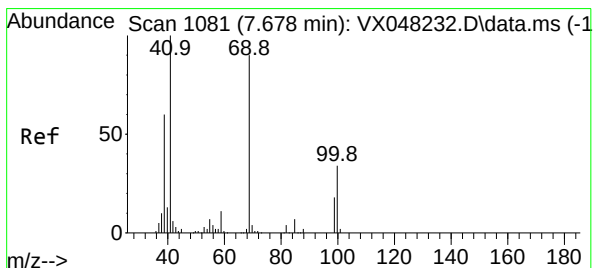
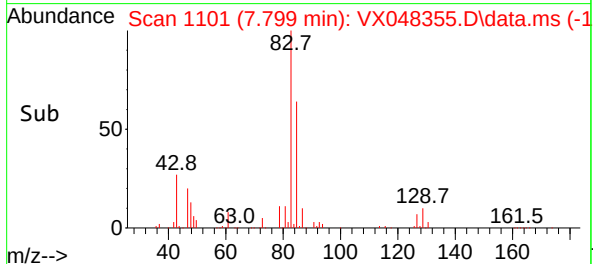
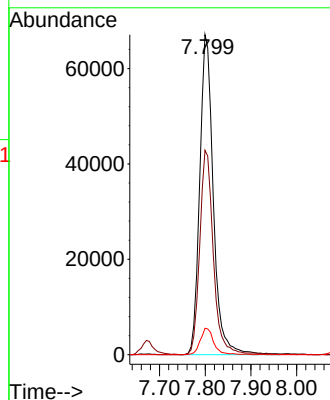
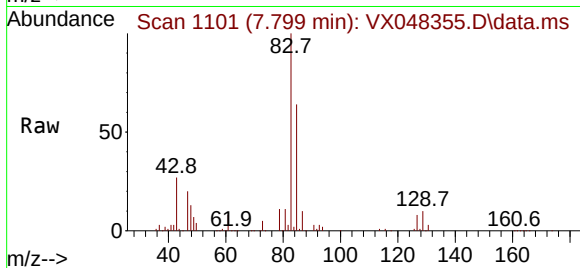
127 8.2 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#48

Methyl methacrylate

Concen: 59.435 ug/l

RT: 7.671 min Scan# 1080

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

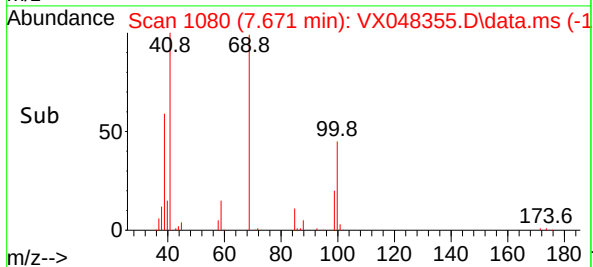
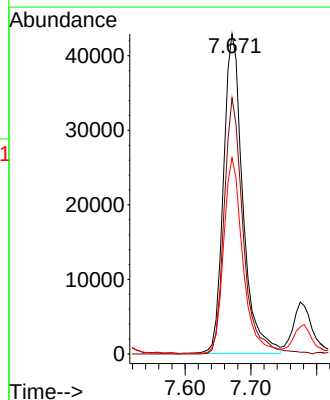
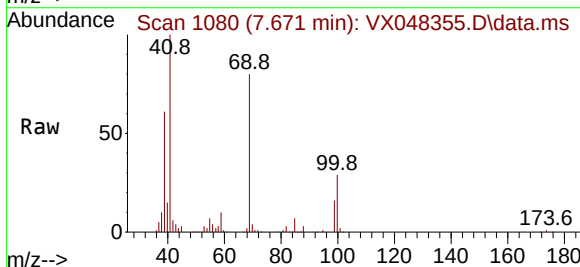
Tgt Ion: 41 Resp: 87827

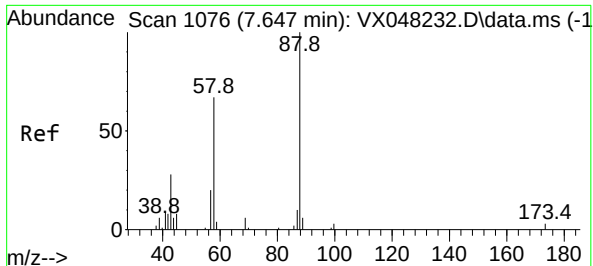
Ion Ratio Lower Upper

41 100

69 79.0 63.4 95.0

39 60.7 47.1 70.7





#49

1,4-Dioxane

Concen: 966.279 ug/l

RT: 7.641 min Scan# 1076

Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 18864

Ion Ratio Lower Upper

88 100

43 45.6 35.0 52.4

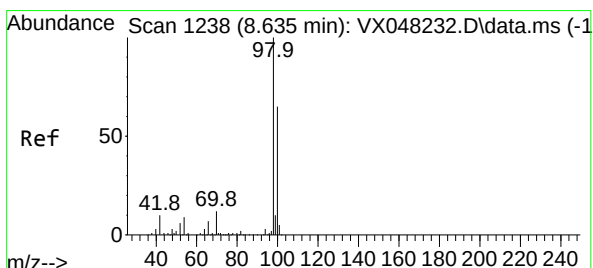
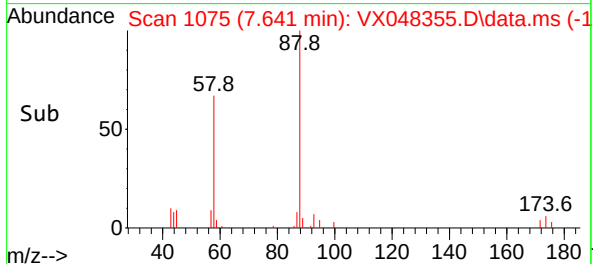
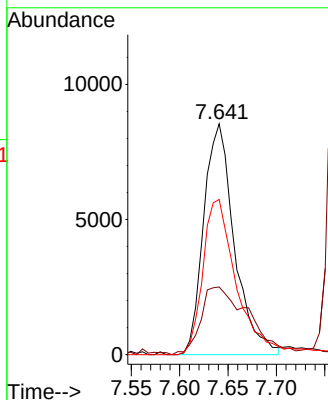
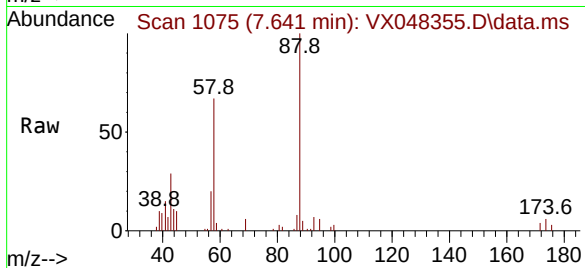
58 75.0 61.9 92.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#50

Toluene-d8

Concen: 49.970 ug/l

RT: 8.628 min Scan# 1237

Delta R.T. -0.006 min

Lab File: VX048355.D

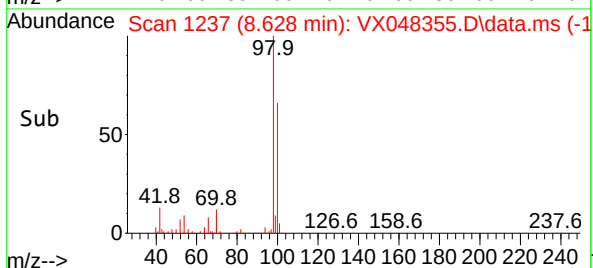
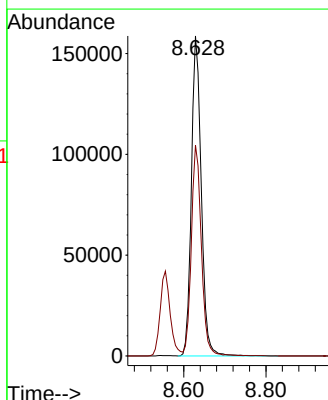
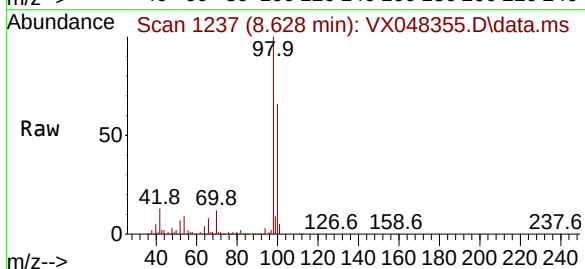
Acq: 27 Oct 2025 09:05

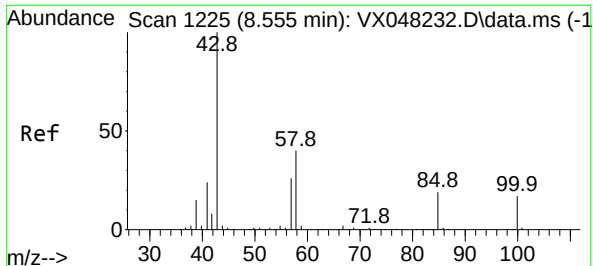
Tgt Ion: 98 Resp: 265050

Ion Ratio Lower Upper

98 100

100 66.5 53.0 79.4





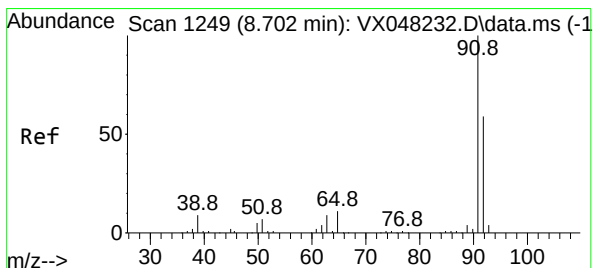
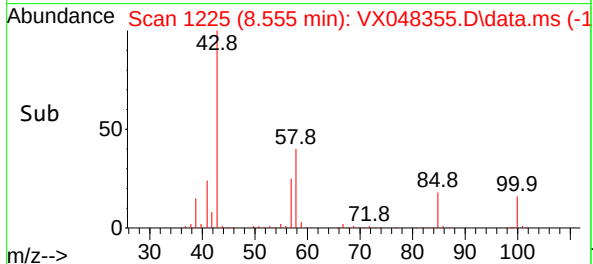
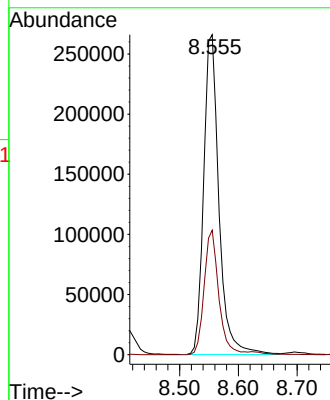
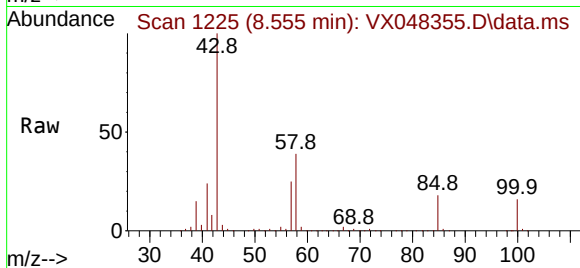
#51
4-Methyl-2-Pentanone
Concen: 284.523 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 48039
Ion Ratio Lower Upper
43 100
58 37.3 29.5 44.3

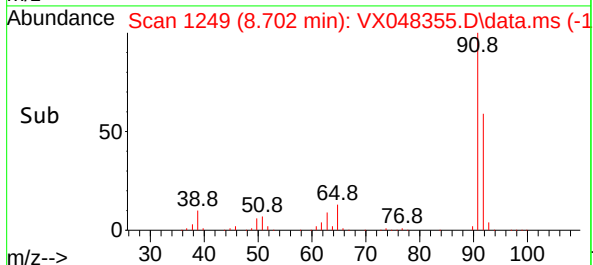
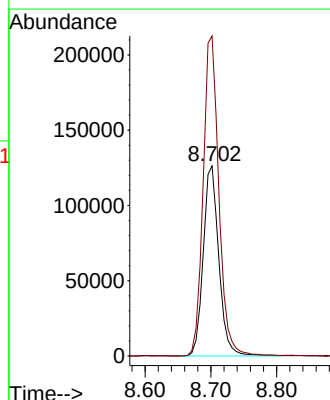
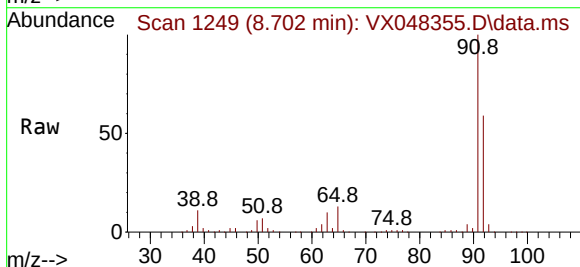
Manual Integrations
APPROVED

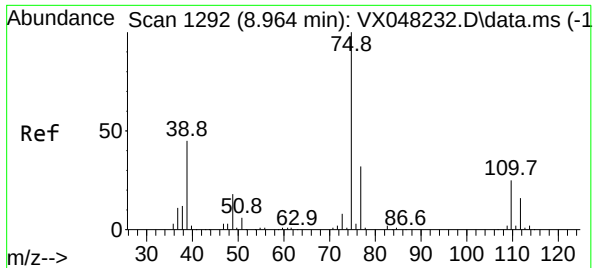
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#52
Toluene
Concen: 52.397 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Tgt Ion: 92 Resp: 207865
Ion Ratio Lower Upper
92 100
91 170.5 136.1 204.1





#53

t-1,3-Dichloropropene

Concen: 53.212 ug/l

RT: 8.958 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 12806

Ion Ratio Lower Upper

75 100

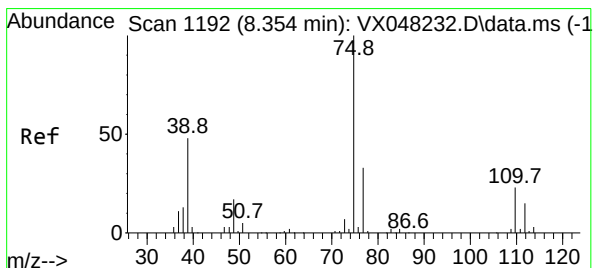
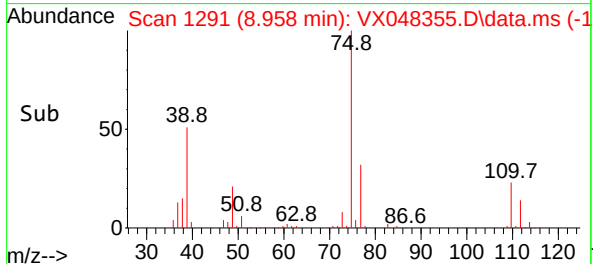
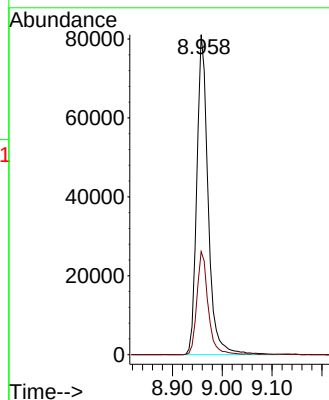
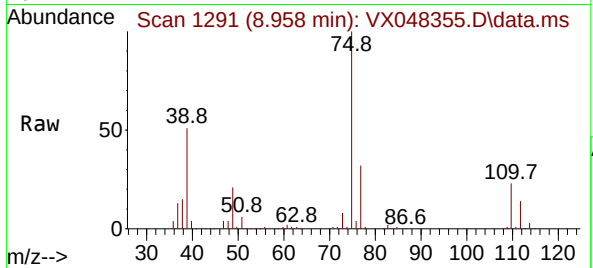
77 32.2 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#54

cis-1,3-Dichloropropene

Concen: 50.527 ug/l

RT: 8.348 min Scan# 1191

Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

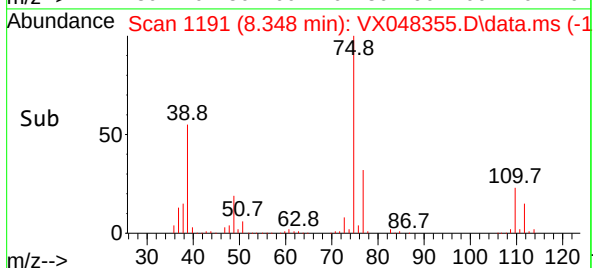
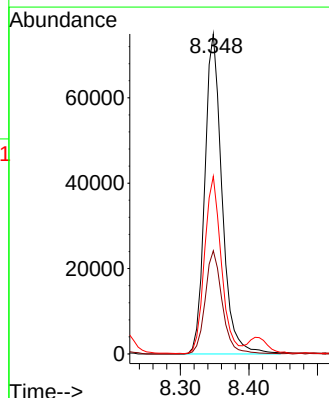
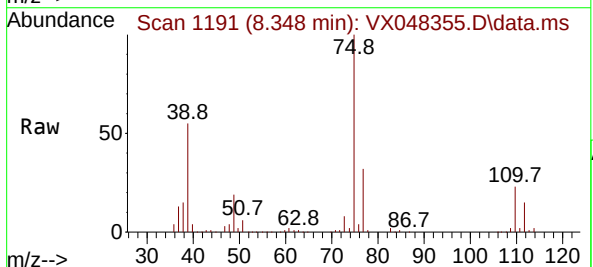
Tgt Ion: 75 Resp: 131198

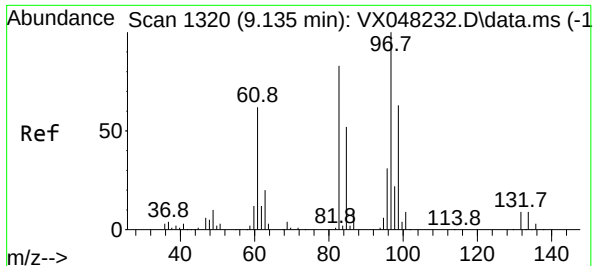
Ion Ratio Lower Upper

75 100

77 32.3 24.9 37.3

39 54.4 42.6 64.0





#55

1,1,2-Trichloroethane

Concen: 54.822 ug/l

RT: 9.134 min Scan# 1320

Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 80878

Ion Ratio Lower Upper

97 100

83 84.2 70.6 105.8

85 54.4 45.0 67.6

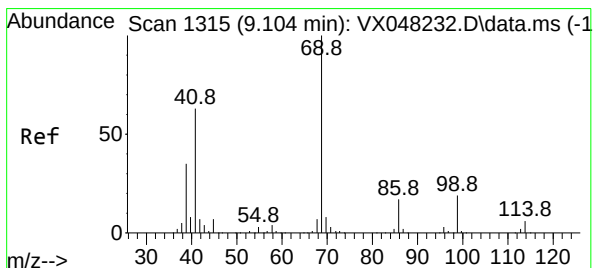
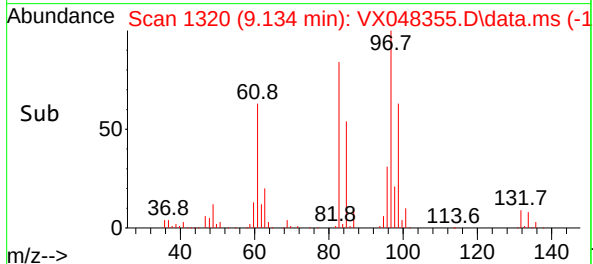
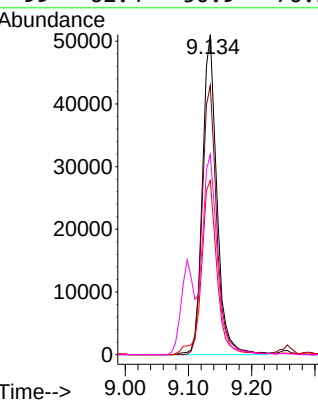
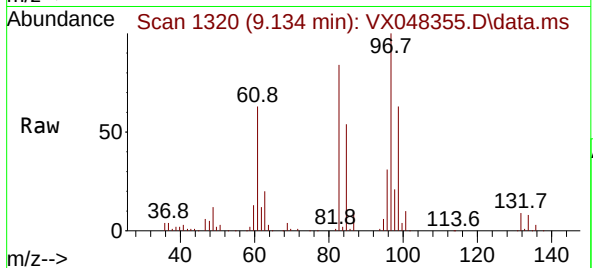
99 62.4 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#56

Ethyl methacrylate

Concen: 57.075 ug/l

RT: 9.098 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

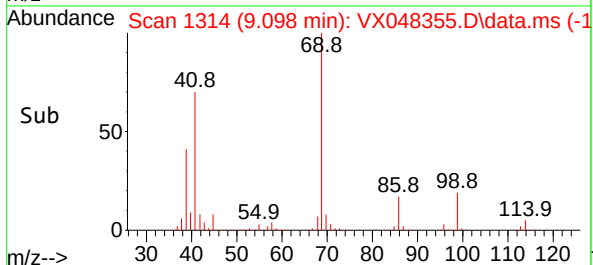
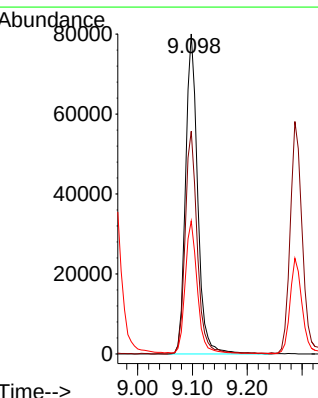
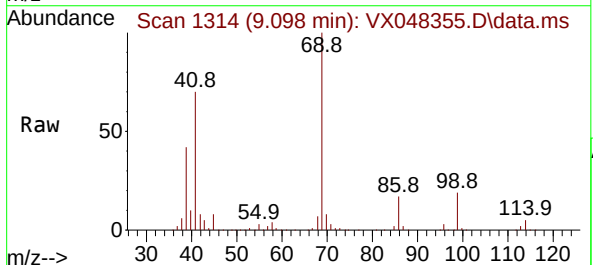
Tgt Ion: 69 Resp: 123158

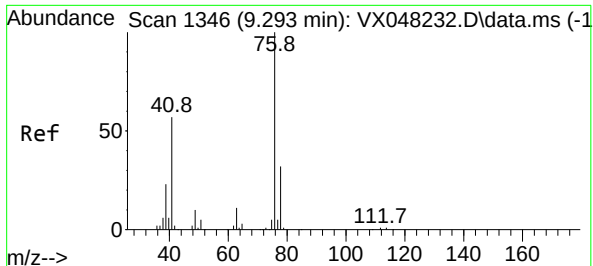
Ion Ratio Lower Upper

69 100

41 70.3 56.0 84.0

39 41.5 31.6 47.4





#57

1,3-Dichloropropane

Concen: 55.818 ug/l

RT: 9.287 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 140660

Ion Ratio Lower Upper

76 100

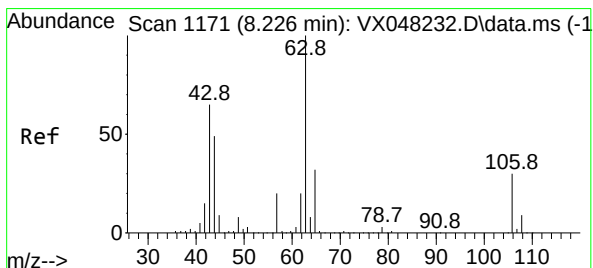
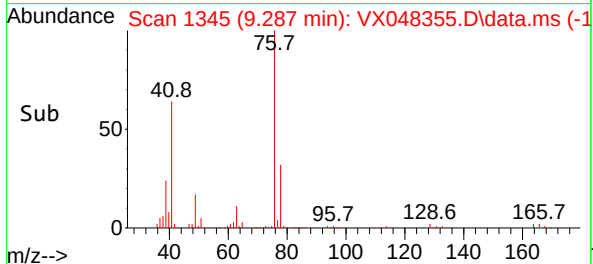
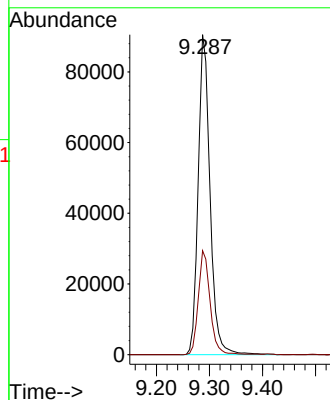
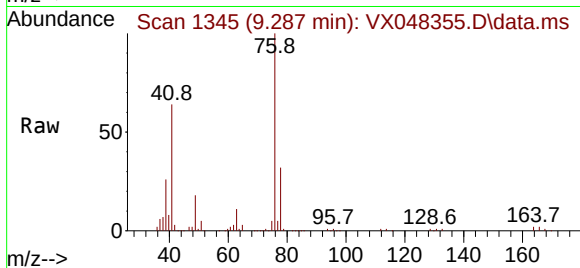
78 32.5 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#58

2-Chloroethyl Vinyl ether

Concen: 295.946 ug/l

RT: 8.220 min Scan# 1170

Delta R.T. -0.006 min

Lab File: VX048355.D

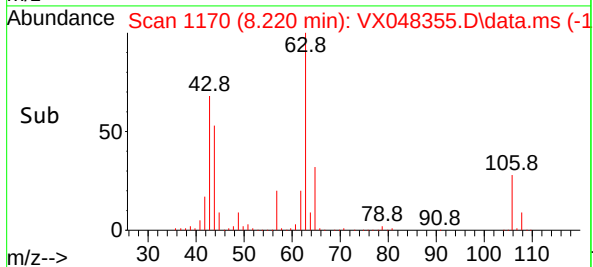
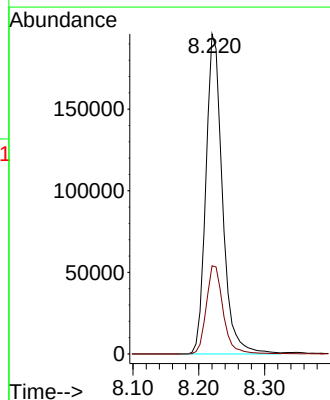
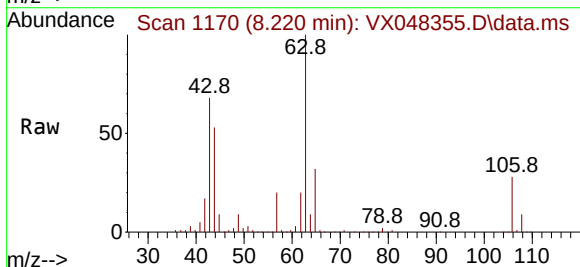
Acq: 27 Oct 2025 09:05

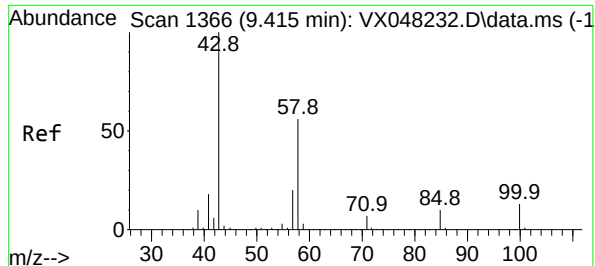
Tgt Ion: 63 Resp: 343743

Ion Ratio Lower Upper

63 100

106 28.2 22.2 33.2





#59

2-Hexanone

Concen: 253.948 ug/l

RT: 9.409 min Scan# 1365

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 29897

Ion Ratio Lower Upper

43

100

58

52.7

26.3

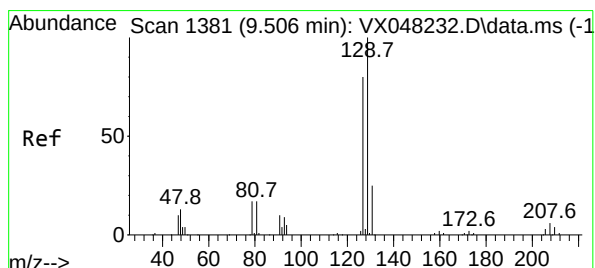
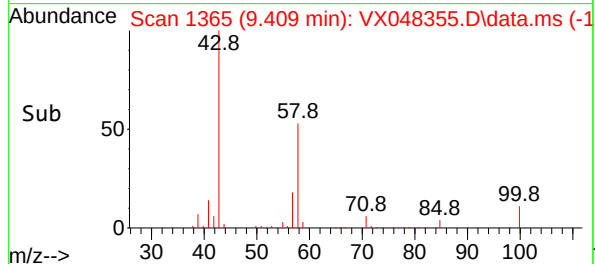
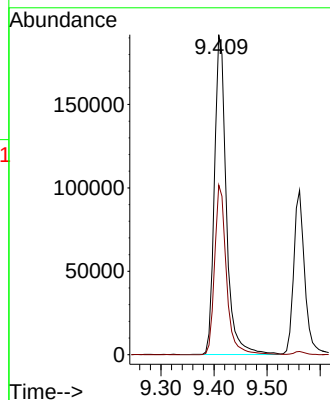
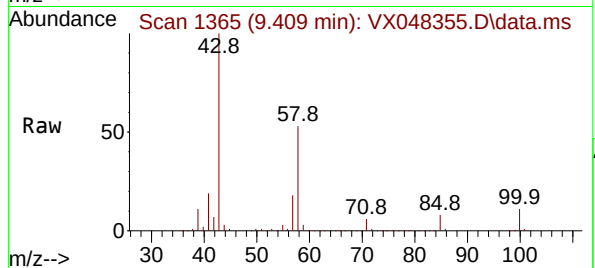
78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#60

Dibromochloromethane

Concen: 51.739 ug/l

RT: 9.500 min Scan# 1380

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Tgt Ion:129 Resp: 102592

Ion Ratio Lower Upper

129

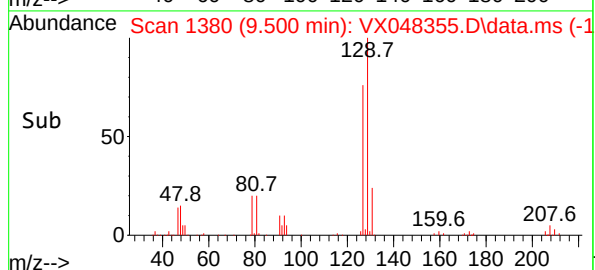
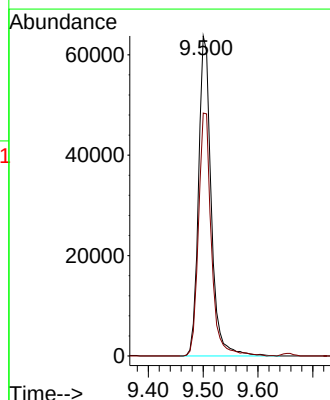
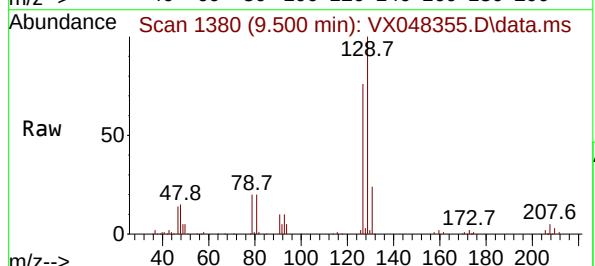
100

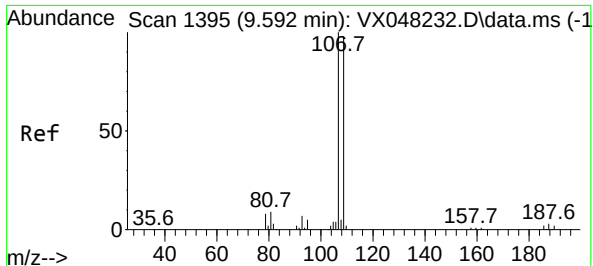
127

77.3

38.6

115.7





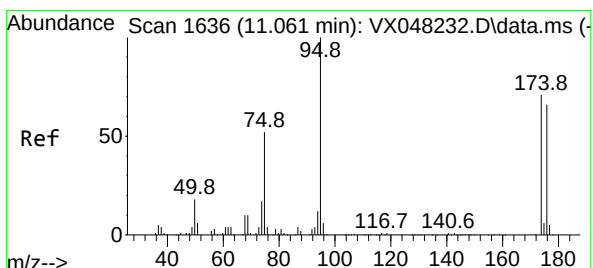
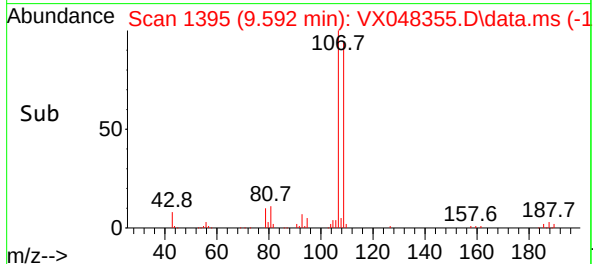
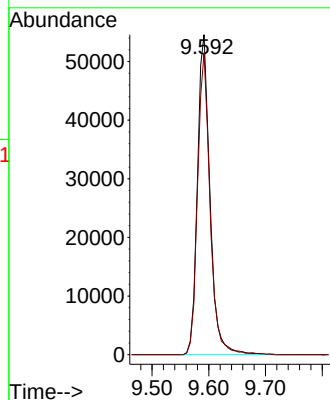
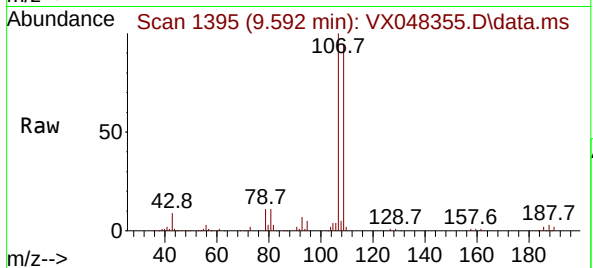
#61
1,2-Dibromoethane
Concen: 53.368 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDC050

Tgt Ion:107 Resp: 83935
Ion Ratio Lower Upper
107 100
109 93.9 77.0 115.4

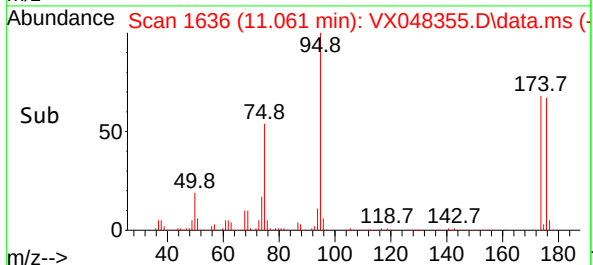
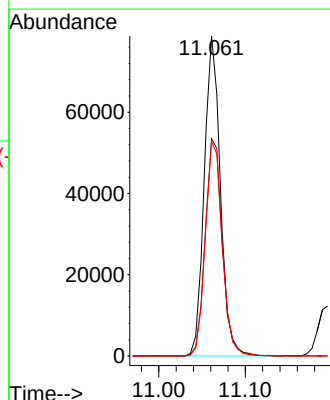
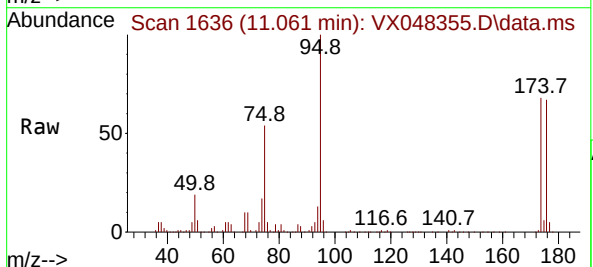
Manual Integrations
APPROVED

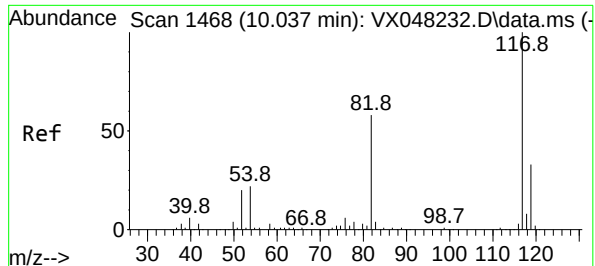
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#62
4-Bromofluorobenzene
Concen: 50.390 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

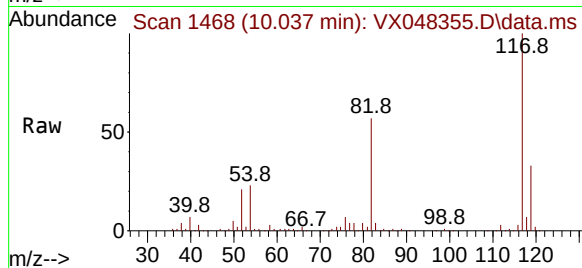
Tgt Ion: 95 Resp: 101680
Ion Ratio Lower Upper
95 100
174 71.9 0.0 147.8
176 70.1 0.0 142.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

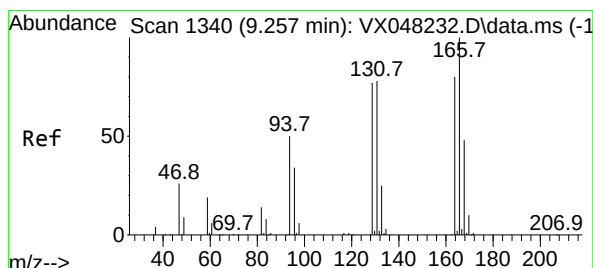
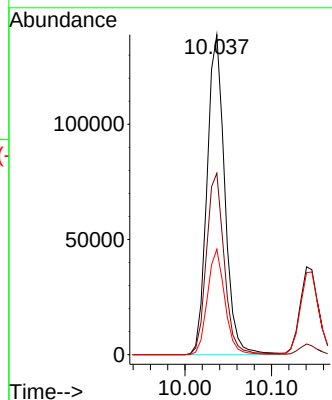
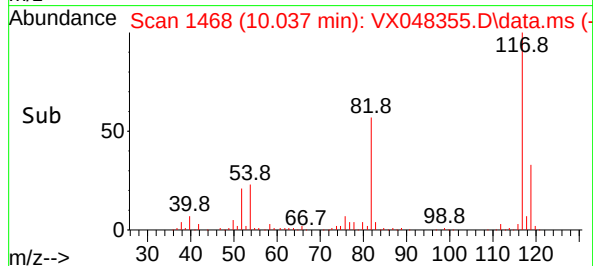
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:117 Resp: 19739
Ion Ratio Lower Upper
117 100
82 56.7 46.5 69.7
119 32.9 25.9 38.9

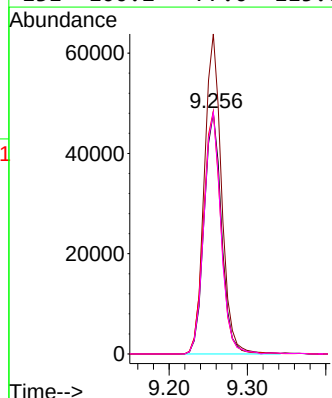
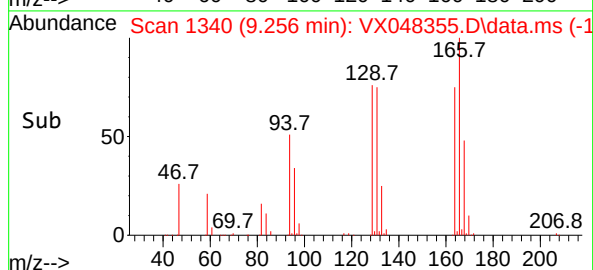
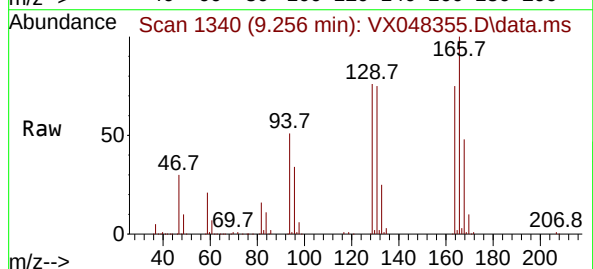
Manual Integrations
APPROVED

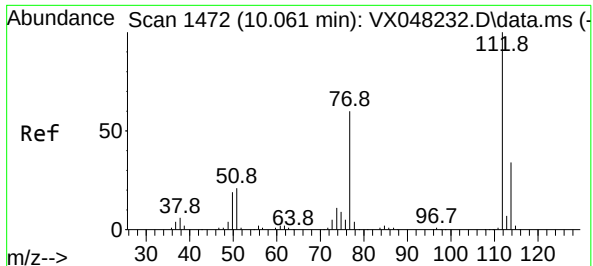
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#64
Tetrachloroethene
Concen: 50.413 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Tgt Ion:164 Resp: 74288
Ion Ratio Lower Upper
164 100
166 132.7 104.5 156.7
129 100.7 81.8 122.6
131 100.2 77.0 115.6





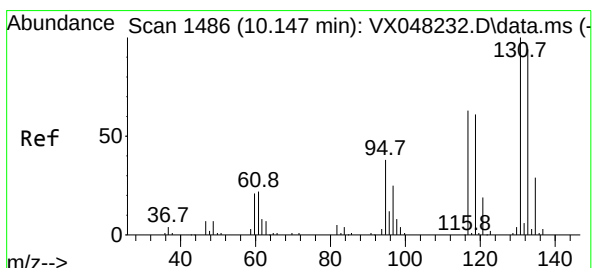
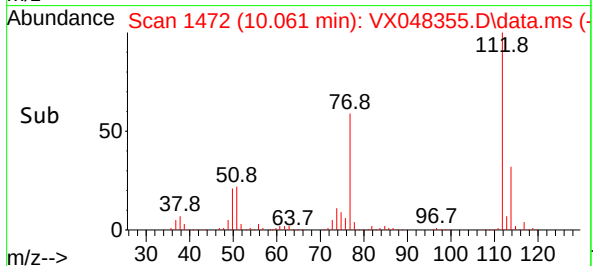
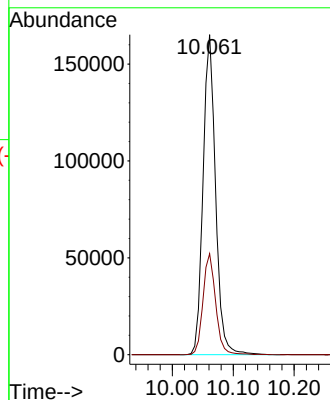
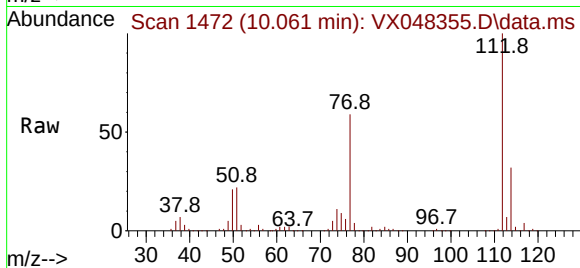
#65
Chlorobenzene
Concen: 53.007 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 235379
Ion Ratio Lower Upper
112 100
114 31.5 26.2 39.2

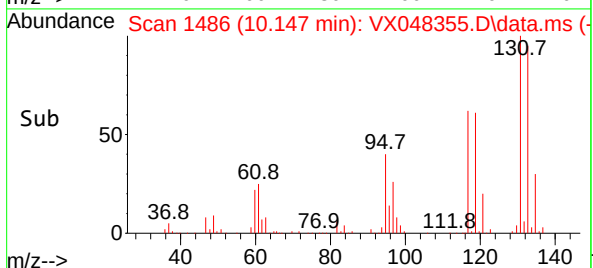
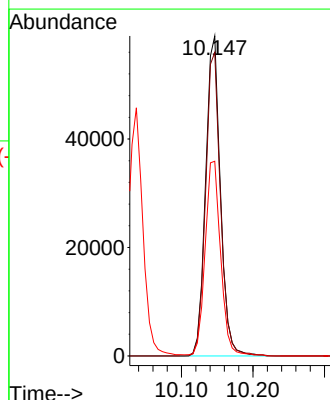
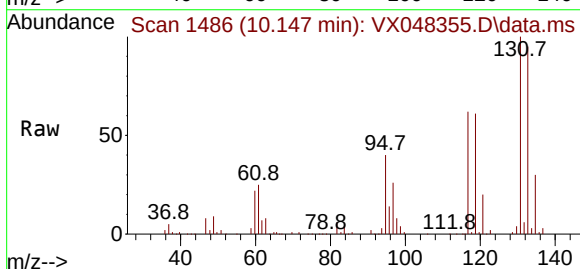
Manual Integrations
APPROVED

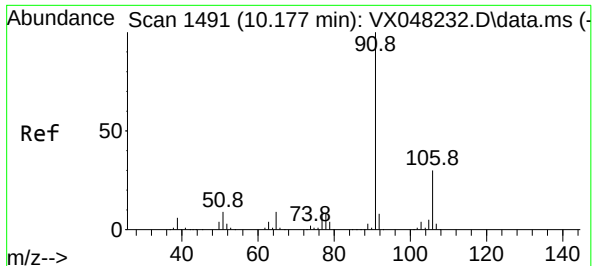
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 52.052 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Tgt Ion:131 Resp: 84894
Ion Ratio Lower Upper
131 100
133 95.6 47.6 142.8
119 64.1 32.5 97.5





#67

Ethyl Benzene

Concen: 52.775 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 39899

Ion Ratio Lower Upper

91 100

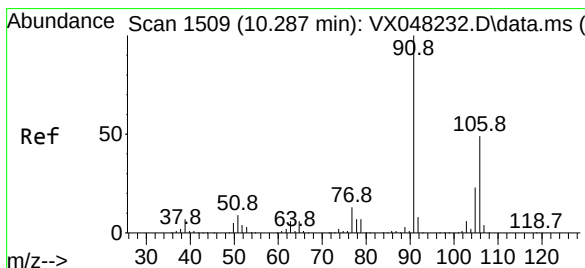
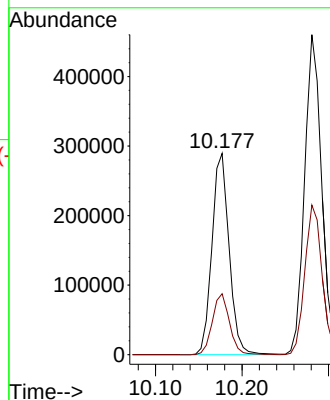
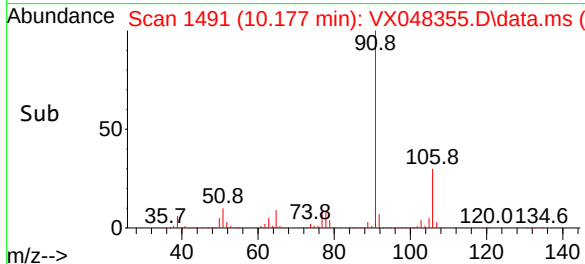
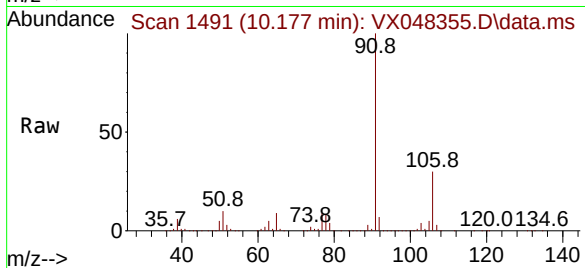
106 30.3 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#68

m/p-Xylenes

Concen: 107.585 ug/l

RT: 10.281 min Scan# 1508

Delta R.T. -0.006 min

Lab File: VX048355.D

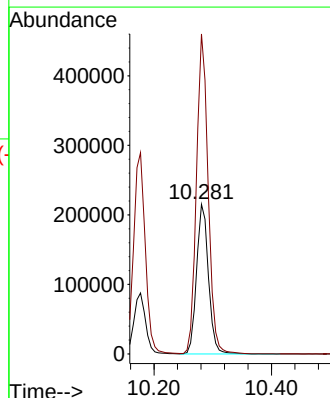
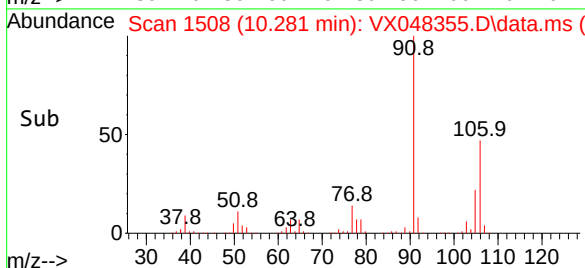
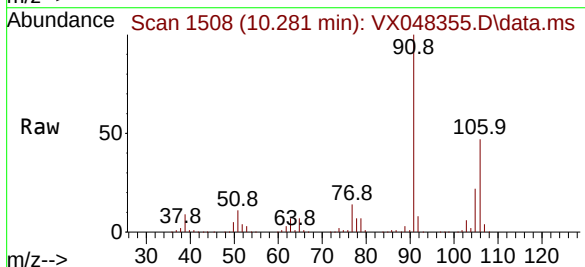
Acq: 27 Oct 2025 09:05

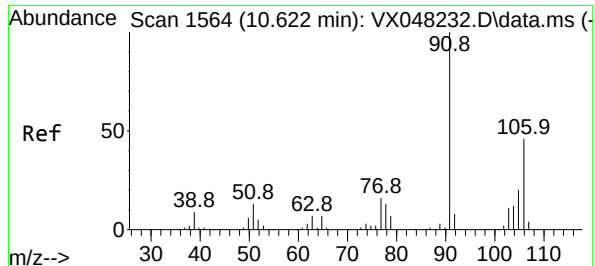
Tgt Ion:106 Resp: 302203

Ion Ratio Lower Upper

106 100

91 210.1 167.9 251.9





#69

o-Xylene

Concen: 53.997 ug/l

RT: 10.622 min Scan# 1564

Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:106 Resp: 146432

Ion Ratio Lower Upper

106 100

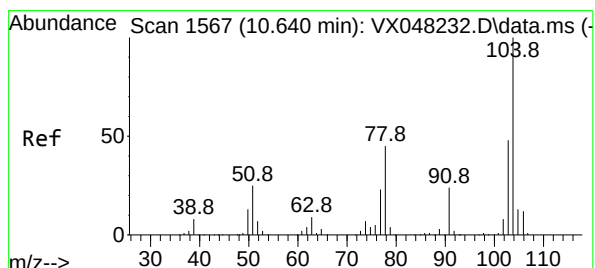
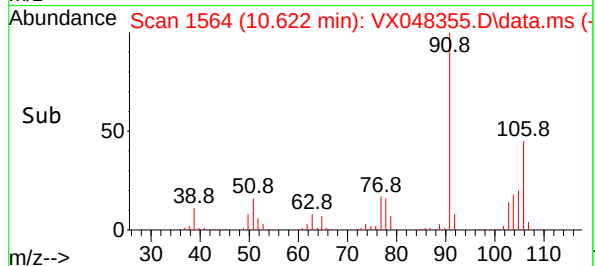
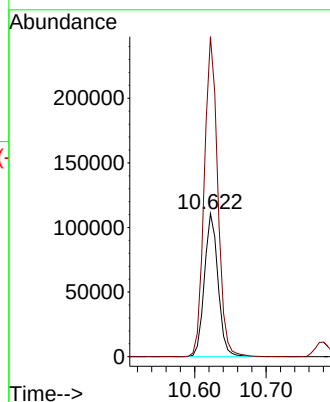
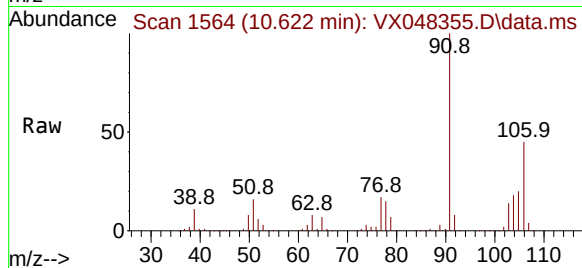
91 222.3 111.3 333.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#70

Styrene

Concen: 55.316 ug/l

RT: 10.634 min Scan# 1566

Delta R.T. -0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

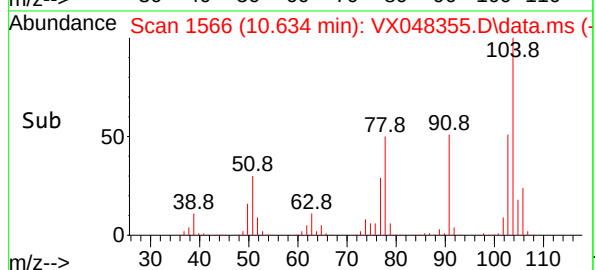
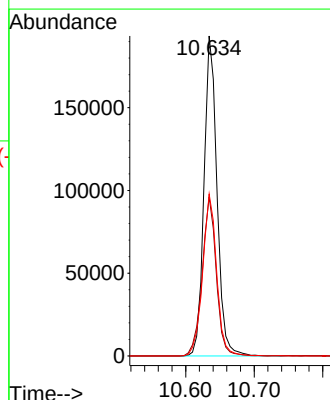
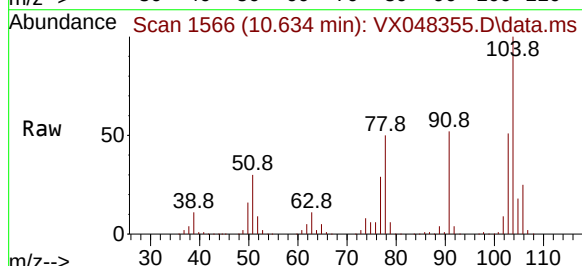
Tgt Ion:104 Resp: 255432

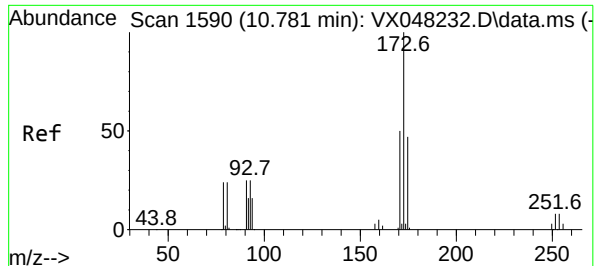
Ion Ratio Lower Upper

104 100

78 54.0 42.2 63.4

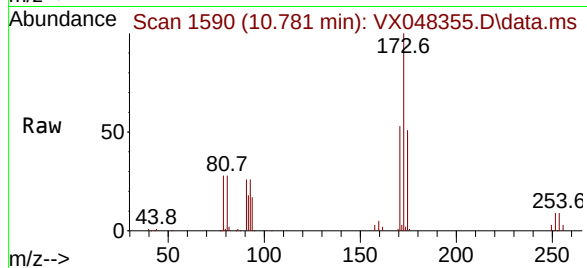
103 54.7 43.0 64.4





#71
Bromoform
Concen: 48.260 ug/l
RT: 10.781 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

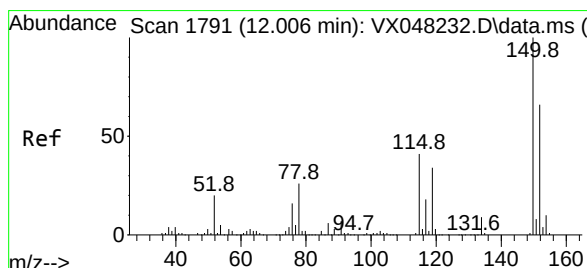
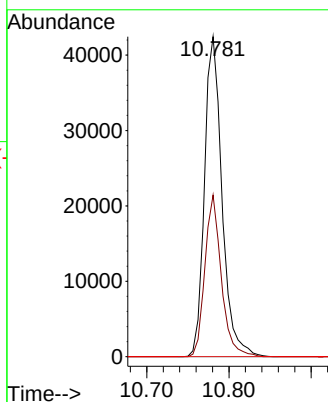
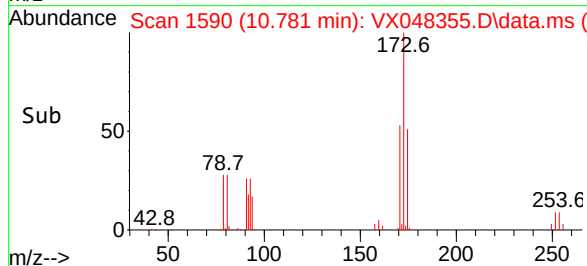
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



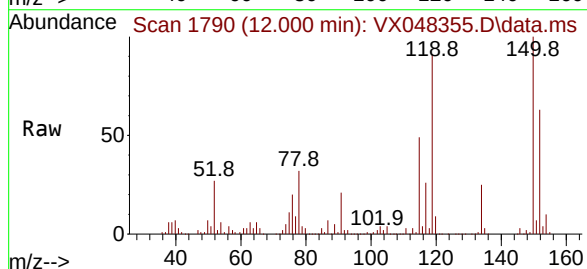
Tgt Ion:173 Resp: 62908
Ion Ratio Lower Upper
173 100
175 47.4 24.0 72.0
254 0.0 0.0 0.0

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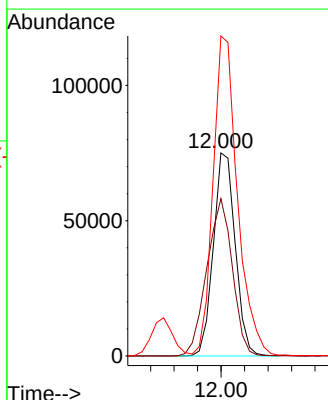
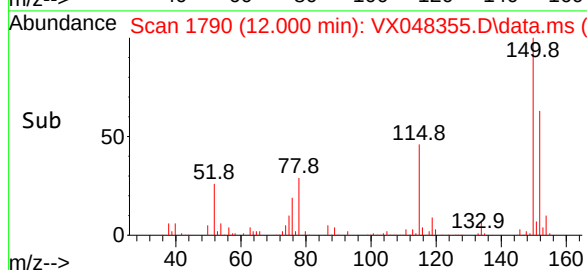
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025

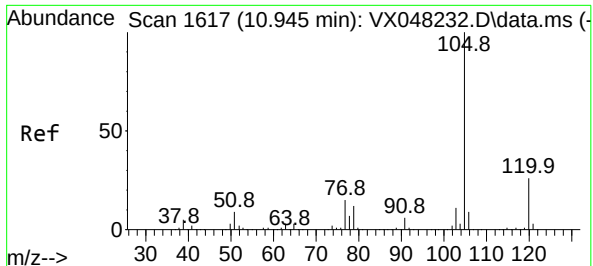


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.000 min Scan# 1790
Delta R.T. -0.006 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05



Tgt Ion:152 Resp: 97107
Ion Ratio Lower Upper
152 100
115 90.3 43.1 129.4
150 175.4 0.0 353.0





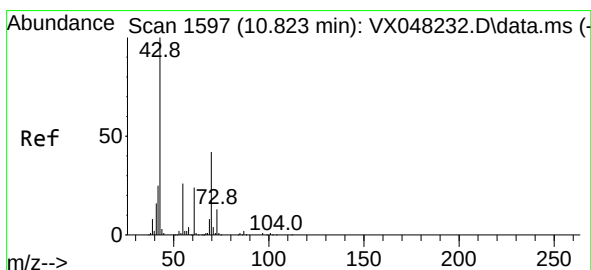
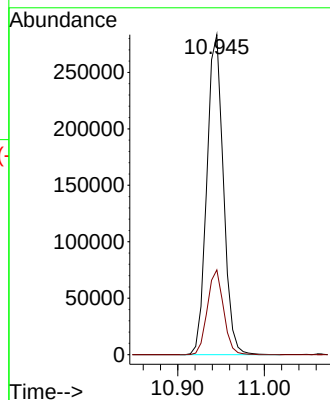
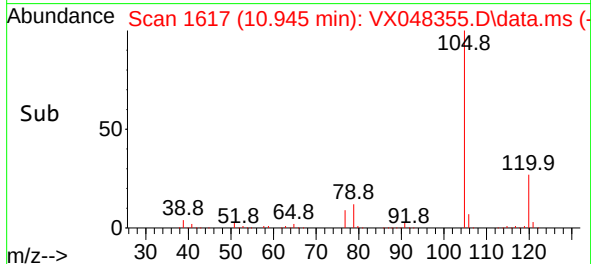
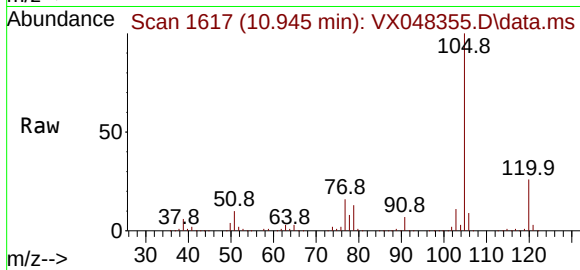
#73
Isopropylbenzene
Concen: 52.939 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 37548
Ion Ratio Lower Upper
105 100
120 25.9 13.0 38.9

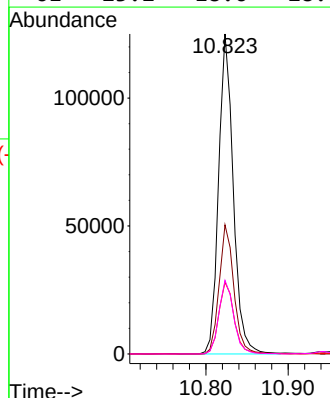
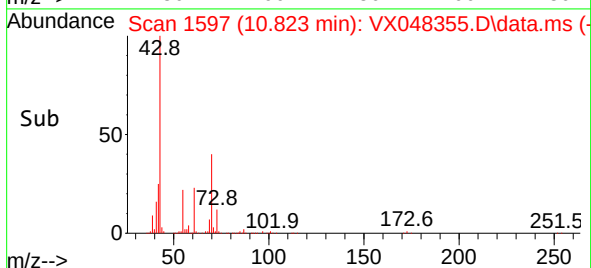
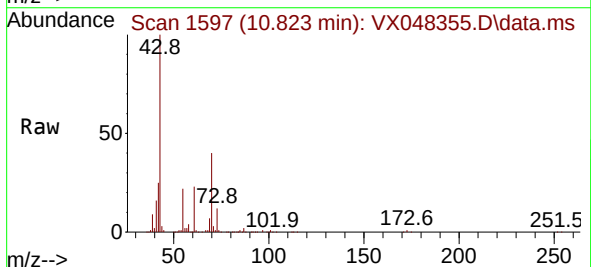
Manual Integrations
APPROVED

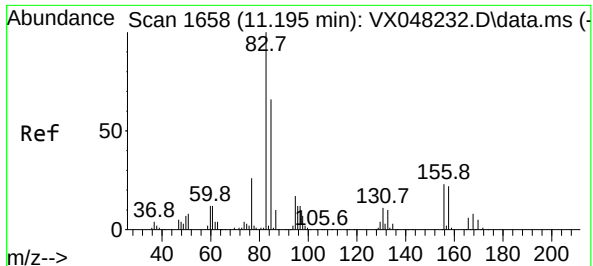
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#74
N-ethyl acetate
Concen: 61.665 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Tgt Ion: 43 Resp: 155140
Ion Ratio Lower Upper
43 100
70 40.8 32.2 48.2
55 23.5 19.1 28.7
61 23.2 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 52.390 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 10147

Ion Ratio Lower Upper

83 100

131 10.2 4.8 14.4

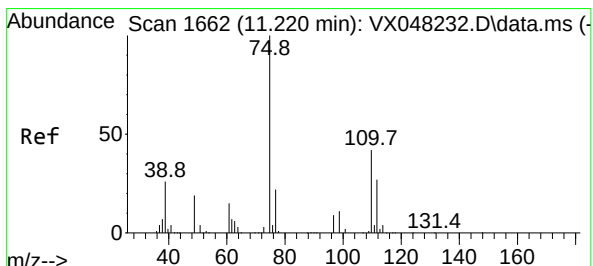
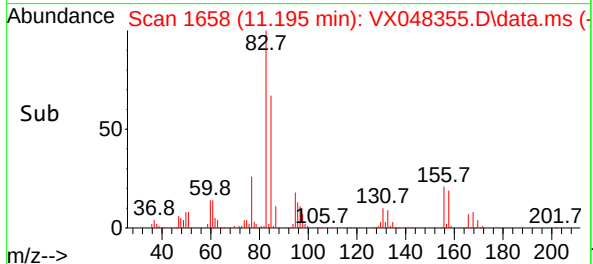
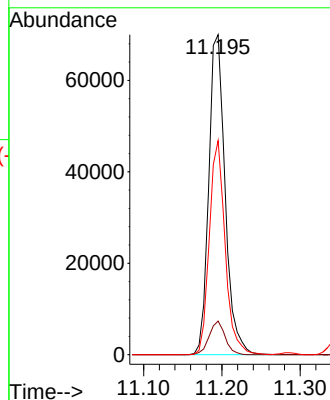
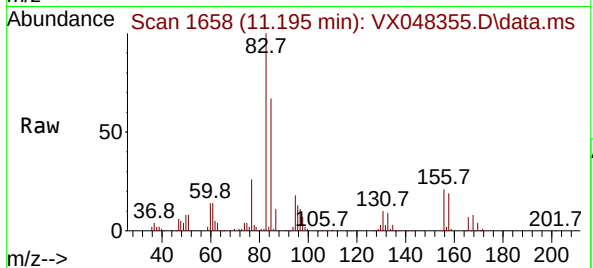
85 64.6 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#76

1,2,3-Trichloropropane

Concen: 53.106 ug/l m

RT: 11.219 min Scan# 1662

Delta R.T. -0.000 min

Lab File: VX048355.D

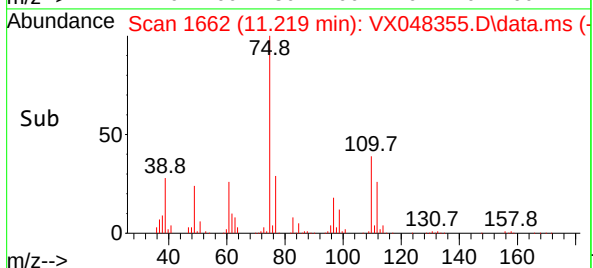
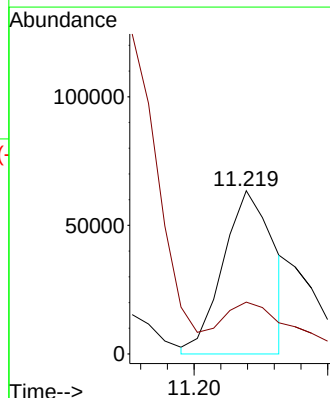
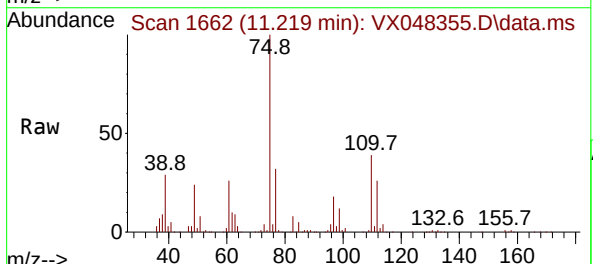
Acq: 27 Oct 2025 09:05

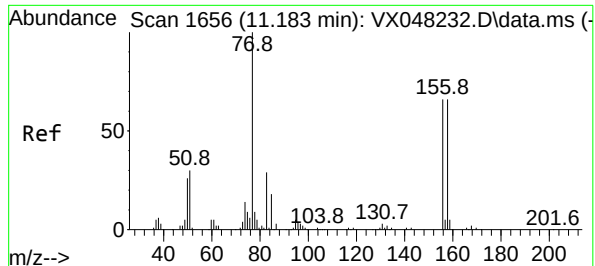
Tgt Ion: 75 Resp: 83629

Ion Ratio Lower Upper

75 100

77 45.0 22.4 67.2





#77

Bromobenzene

Concen: 52.830 ug/l

RT: 11.177 min Scan# 1655

Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

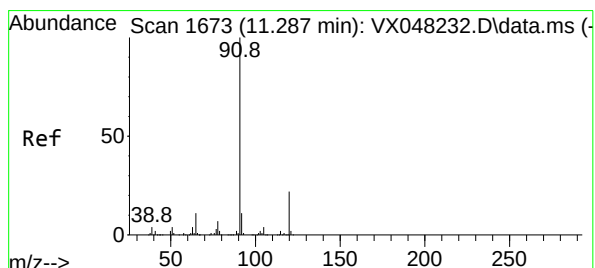
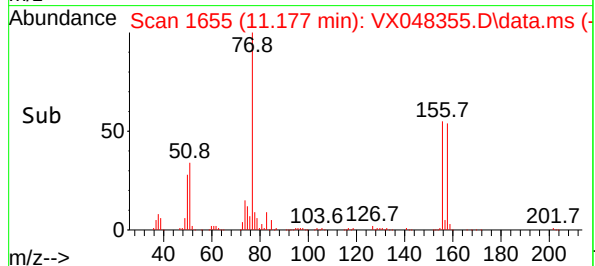
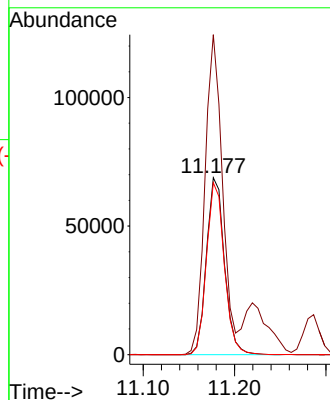
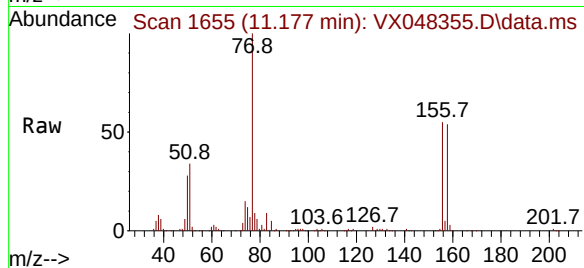
Tgt Ion:	156	Resp:	93954
Ion	Ratio	Lower	Upper
156	100		
77	173.6	87.0	261.0
158	96.5	47.8	143.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#78

n-propylbenzene

Concen: 55.070 ug/l

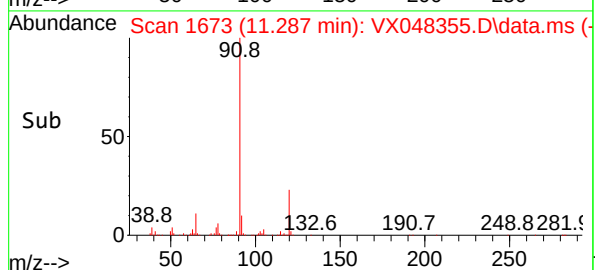
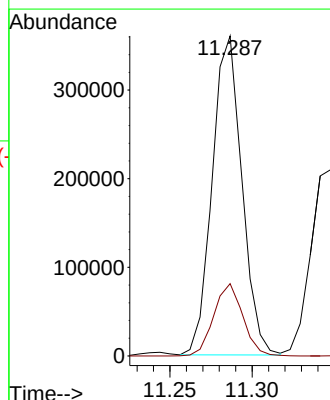
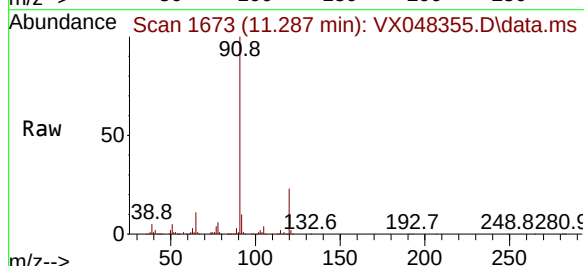
RT: 11.287 min Scan# 1673

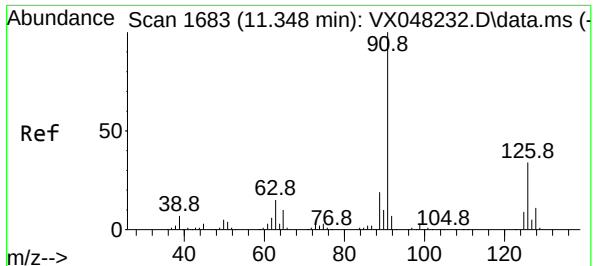
Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Tgt Ion:	91	Resp:	452247
Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.1	33.1





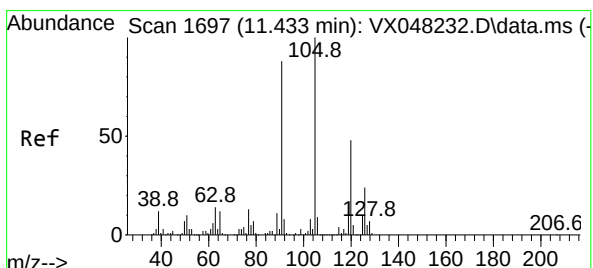
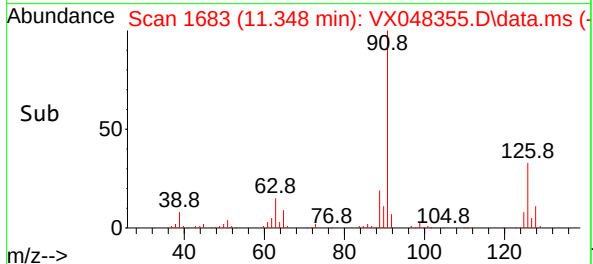
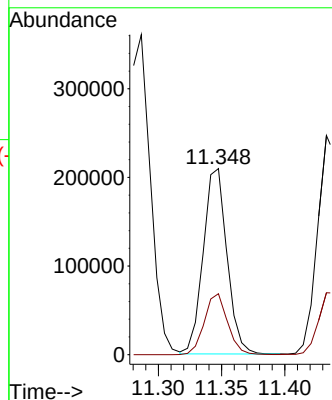
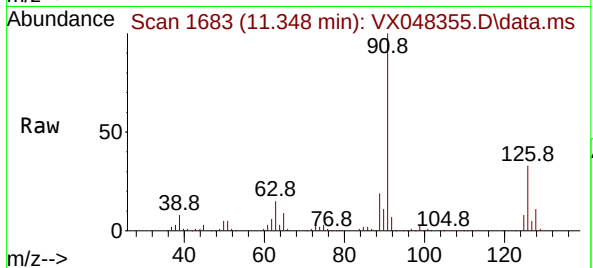
#79
2-Chlorotoluene
Concen: 55.110 ug/l
RT: 11.348 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 274388
Ion Ratio Lower Upper
91 100
126 32.1 16.4 49.4

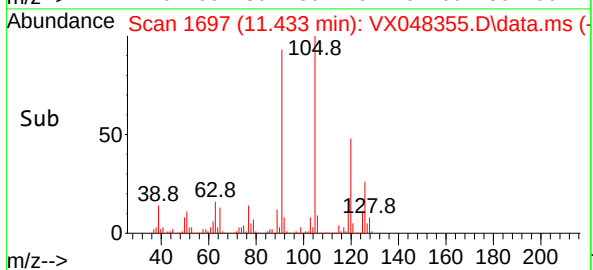
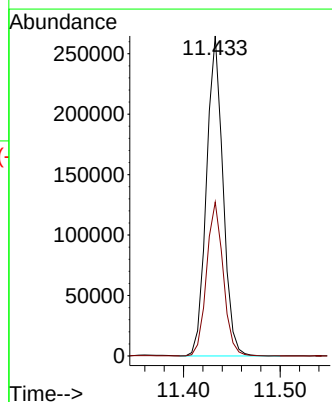
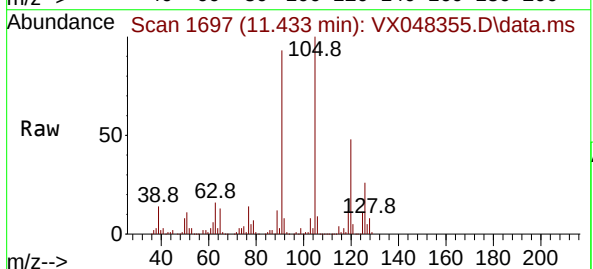
Manual Integrations
APPROVED

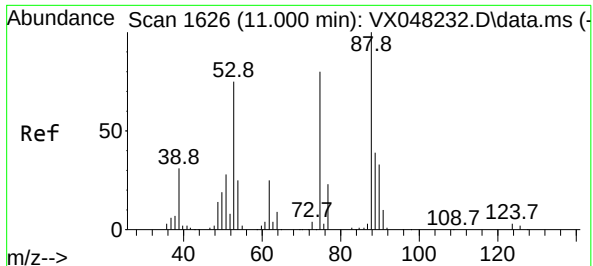
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#80
1,3,5-Trimethylbenzene
Concen: 53.461 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

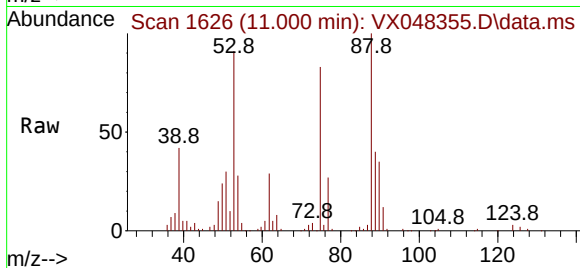
Tgt Ion:105 Resp: 313791
Ion Ratio Lower Upper
105 100
120 48.5 24.0 72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 36.799 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

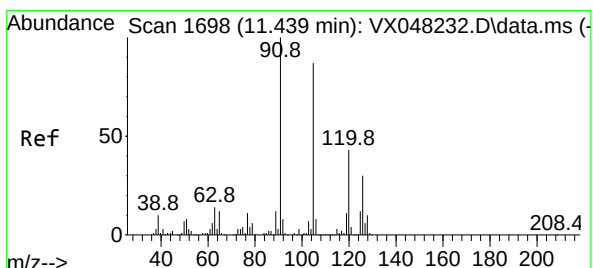
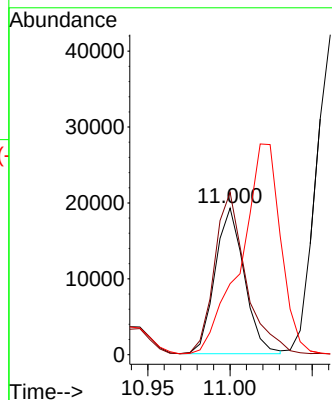
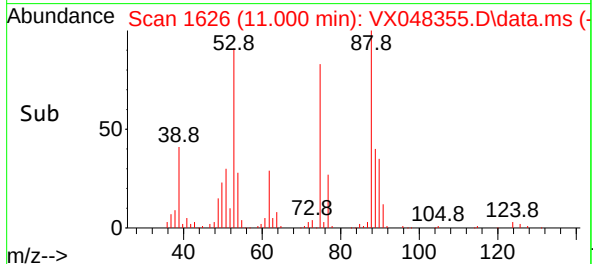
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



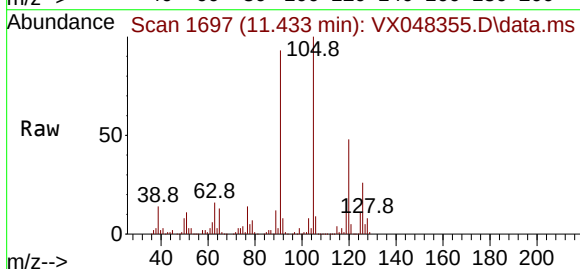
Tgt Ion: 75 Resp: 23819
Ion Ratio Lower Upper
75 100
53 122.1 79.5 119.3
89 197.7 36.8 55.2

Manual Integrations
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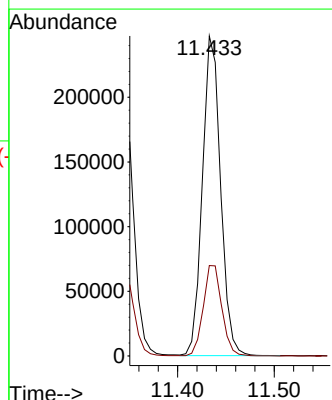
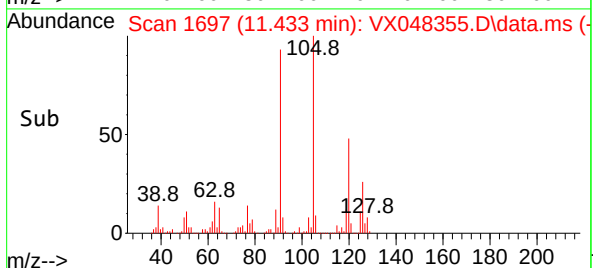
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025

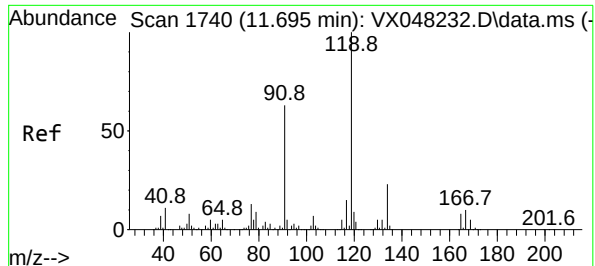


#82
4-Chlorotoluene
Concen: 54.685 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05



Tgt Ion: 91 Resp: 323214
Ion Ratio Lower Upper
91 100
126 29.1 14.1 42.4





#83

tert-Butylbenzene

Concen: 51.264 ug/l

RT: 11.695 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 309158

Ion Ratio Lower Upper

119 100

91 61.4 30.3 91.0

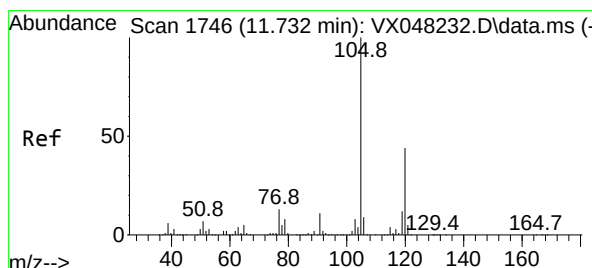
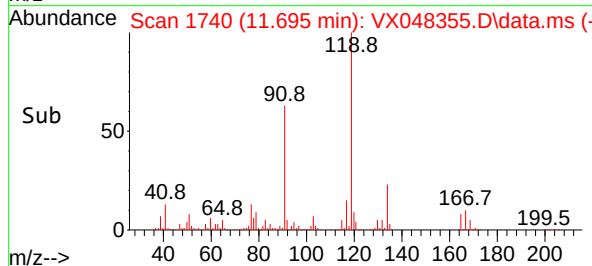
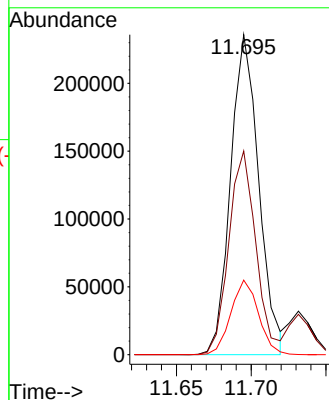
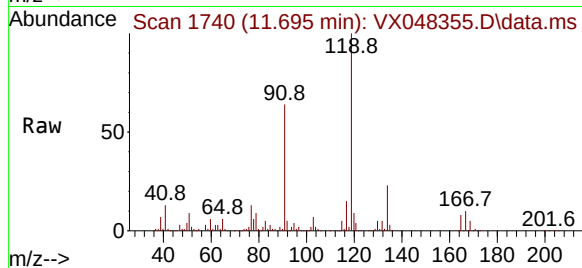
134 22.9 11.4 34.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#84

1,2,4-Trimethylbenzene

Concen: 54.510 ug/l

RT: 11.732 min Scan# 1746

Delta R.T. -0.000 min

Lab File: VX048355.D

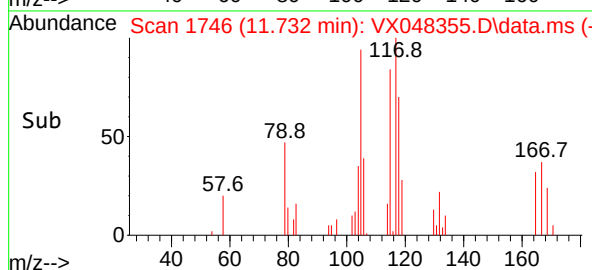
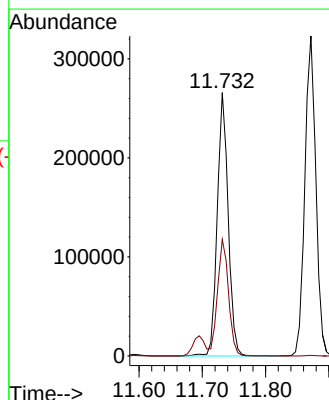
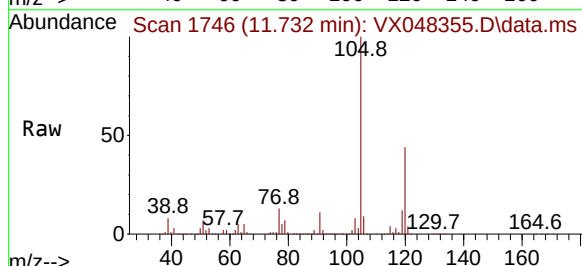
Acq: 27 Oct 2025 09:05

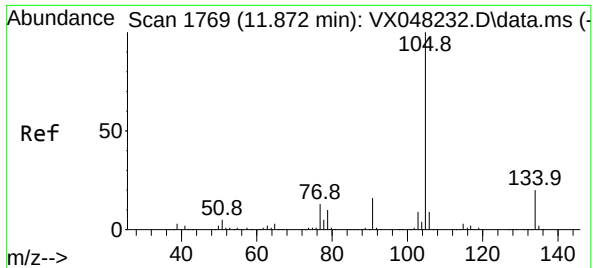
Tgt Ion:105 Resp: 319307

Ion Ratio Lower Upper

105 100

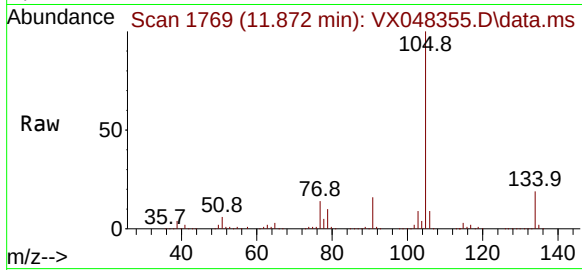
120 44.8 22.1 66.5





#85
sec-Butylbenzene
Concen: 53.347 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

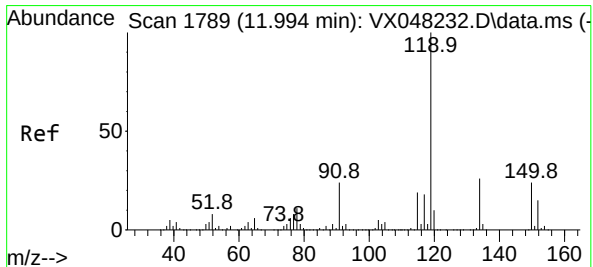
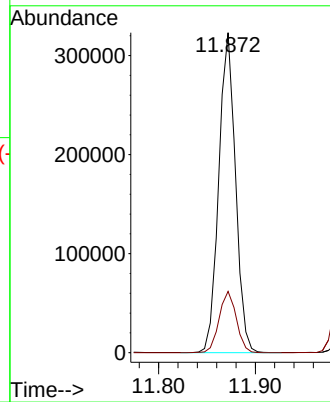
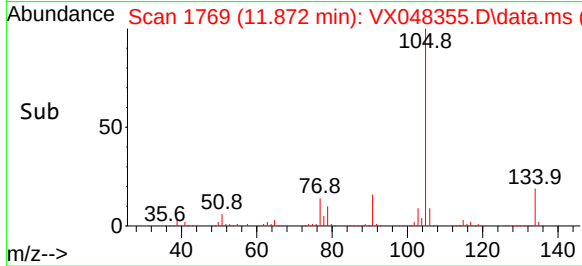
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



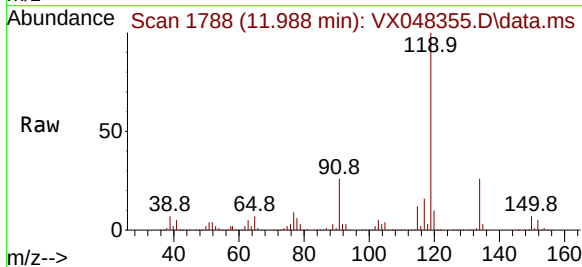
Tgt Ion:105 Resp: 387069
Ion Ratio Lower Upper
105 100
134 19.7 10.1 30.1

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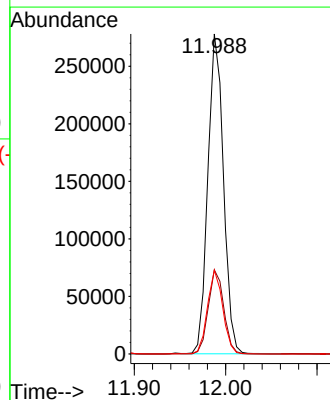
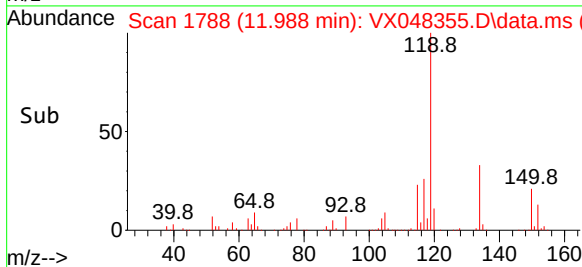
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025

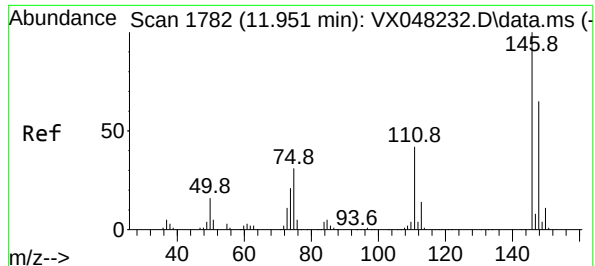


#86
p-Isopropyltoluene
Concen: 52.381 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05



Tgt Ion:119 Resp: 328504
Ion Ratio Lower Upper
119 100
134 26.2 13.0 39.0
91 25.7 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 51.258 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 17185

Ion Ratio Lower Upper

146 100

111 42.9 20.4 61.2

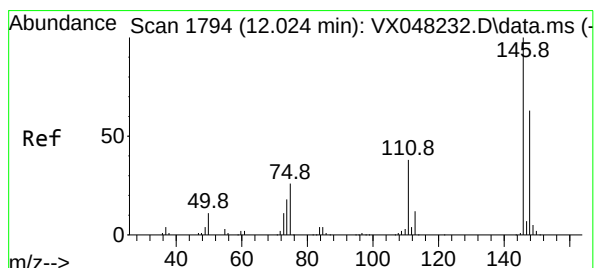
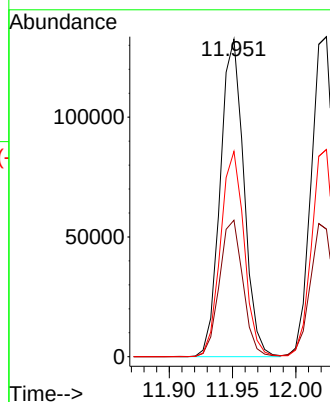
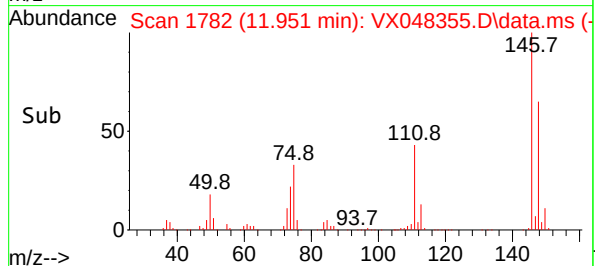
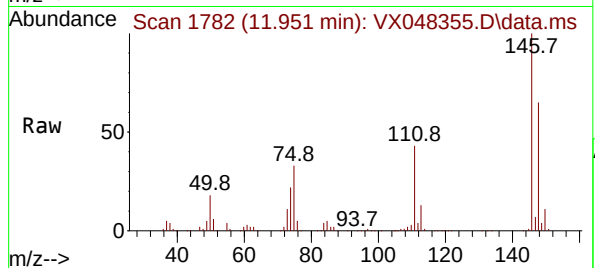
148 64.7 31.9 95.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#88

1,4-Dichlorobenzene

Concen: 50.063 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

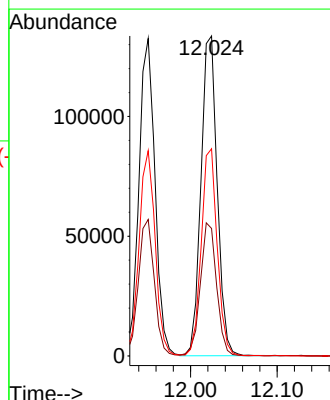
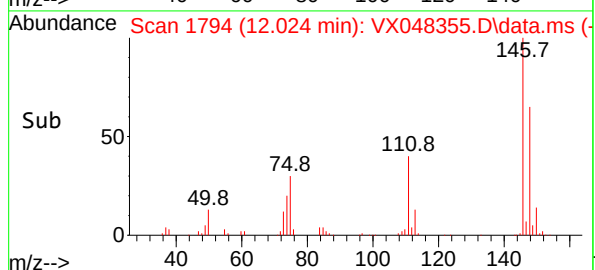
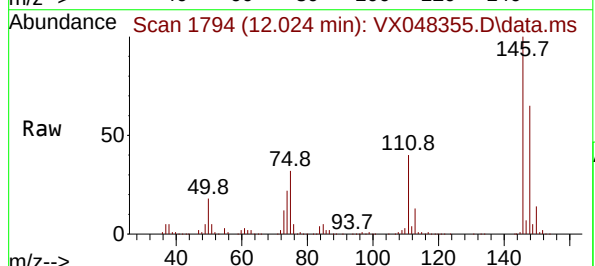
Tgt Ion:146 Resp: 173880

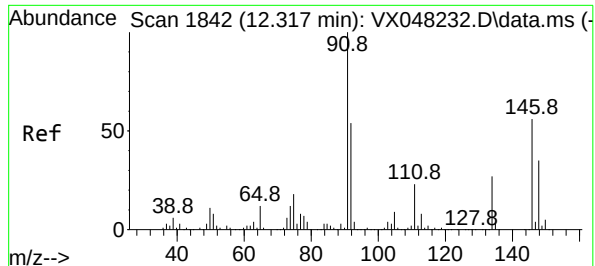
Ion Ratio Lower Upper

146 100

111 41.6 20.1 60.2

148 63.8 31.8 95.3





#89

n-Butylbenzene

Concen: 54.597 ug/l

RT: 12.311 min Scan# 1841

Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 311650

Ion Ratio Lower Upper

91 100

92 53.3 26.9 80.6

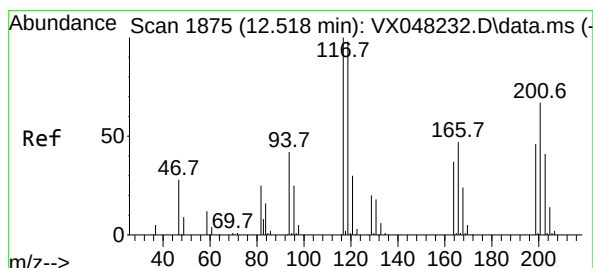
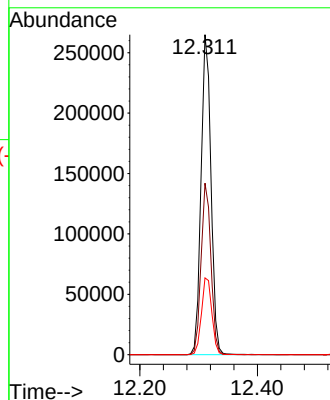
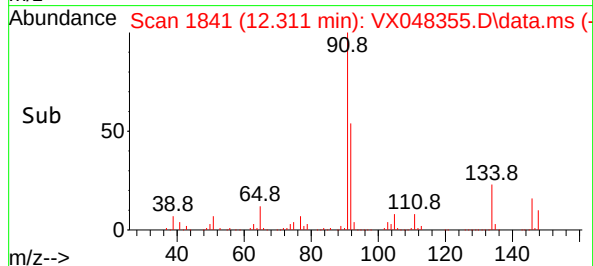
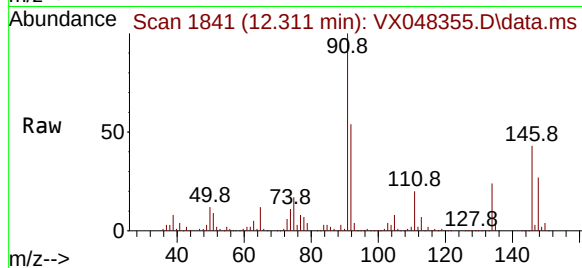
134 25.0 12.7 38.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#90

Hexachloroethane

Concen: 48.050 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX048355.D

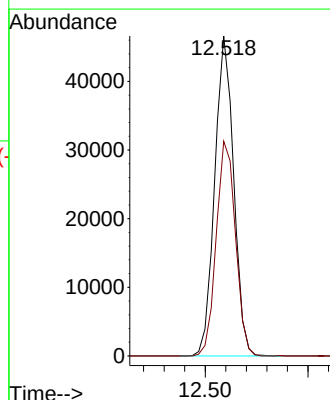
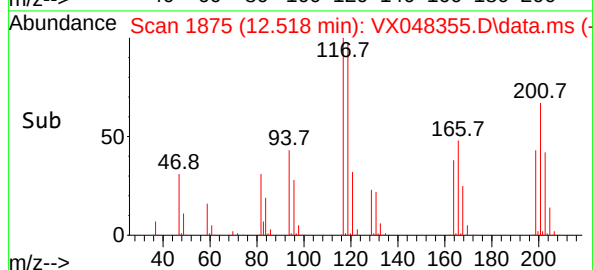
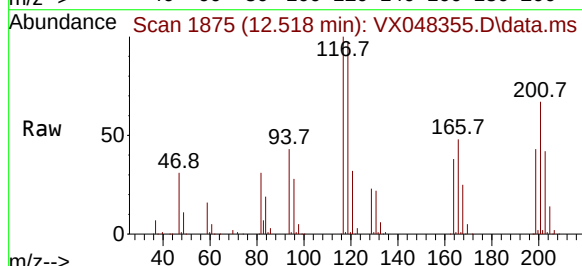
Acq: 27 Oct 2025 09:05

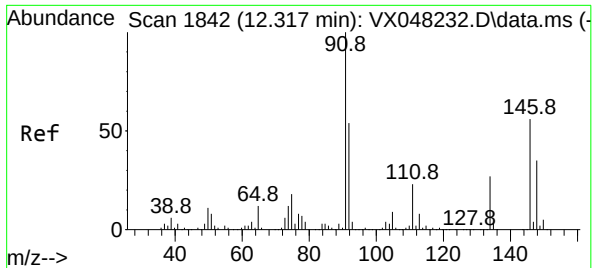
Tgt Ion:117 Resp: 59508

Ion Ratio Lower Upper

117 100

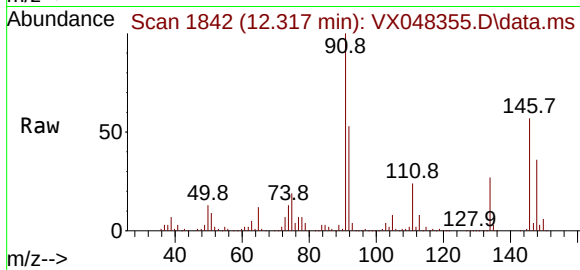
201 68.2 34.1 102.2





#91
1,2-Dichlorobenzene
Concen: 52.585 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

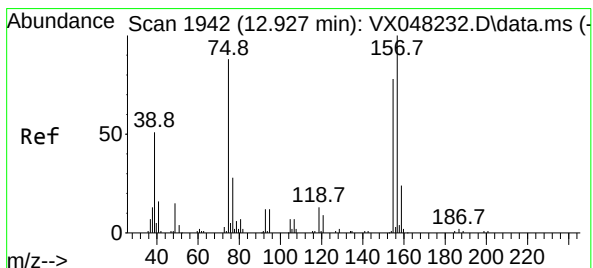
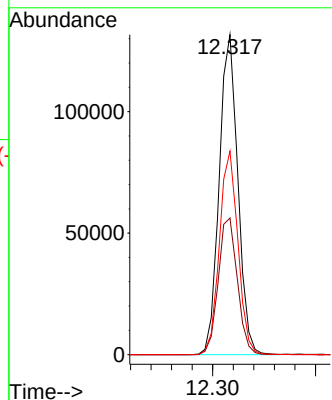
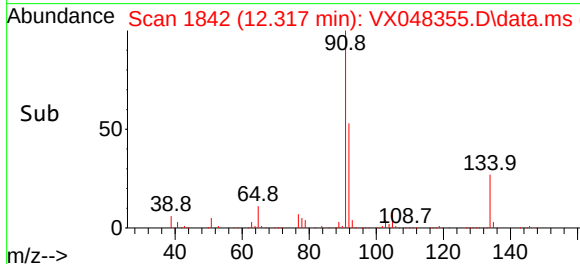
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 16552
Ion Ratio Lower Upper
146 100
111 44.0 21.9 65.5
148 63.2 31.9 95.5

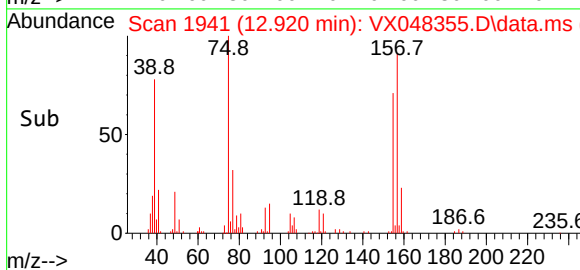
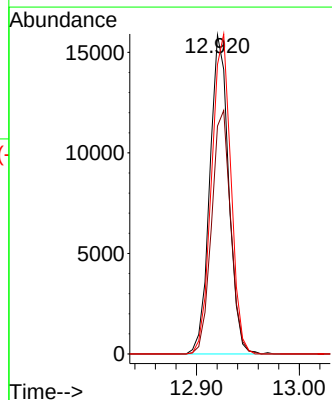
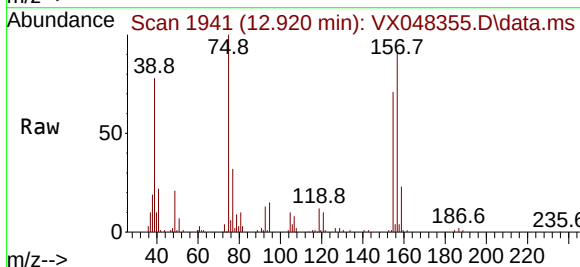
Manual Integrations
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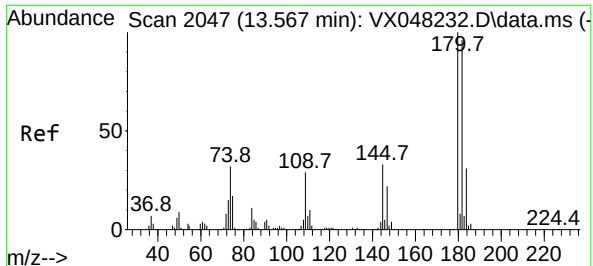
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 51.538 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048355.D
Acq: 27 Oct 2025 09:05

Tgt Ion: 75 Resp: 20263
Ion Ratio Lower Upper
75 100
155 77.0 42.8 128.4
157 101.9 54.2 162.6





#93

1,2,4-Trichlorobenzene

Concen: 52.712 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:180 Resp: 112208

Ion Ratio Lower Upper

180 100

182 95.4 47.3 142.0

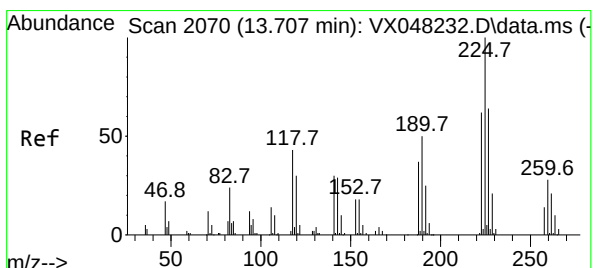
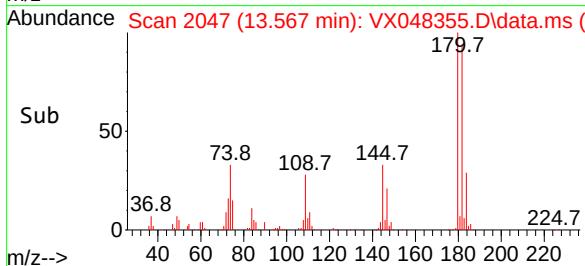
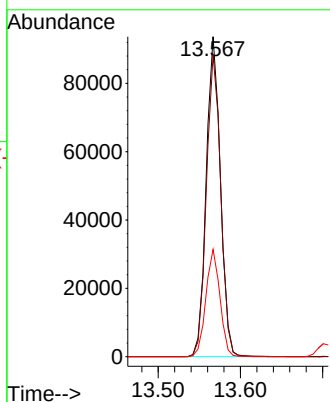
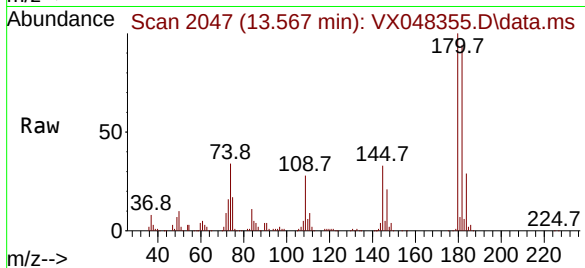
145 33.1 16.3 48.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#94

Hexachlorobutadiene

Concen: 54.450 ug/l

RT: 13.707 min Scan# 2070

Delta R.T. 0.006 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

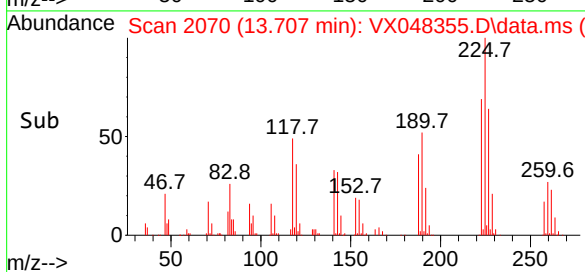
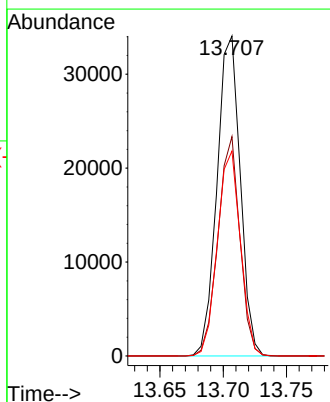
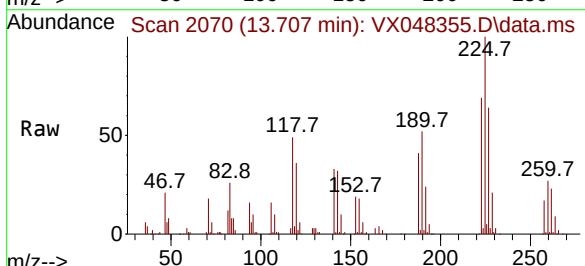
Tgt Ion:225 Resp: 43438

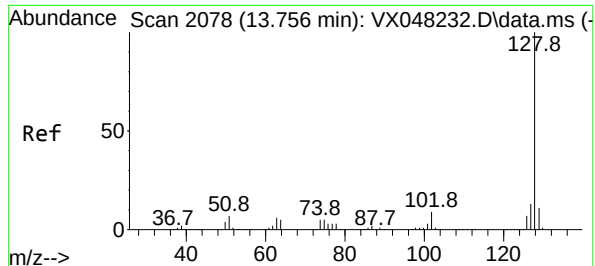
Ion Ratio Lower Upper

225 100

223 64.5 32.6 97.7

227 63.4 32.5 97.4





#95

Naphthalene

Concen: 53.163 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:128 Resp: 299825

Ion Ratio Lower Upper

128 100

127 13.1 10.2 15.4

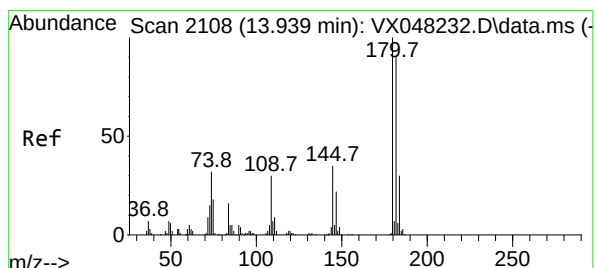
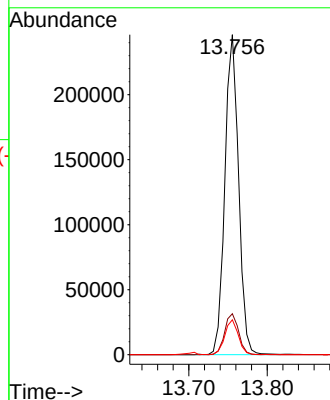
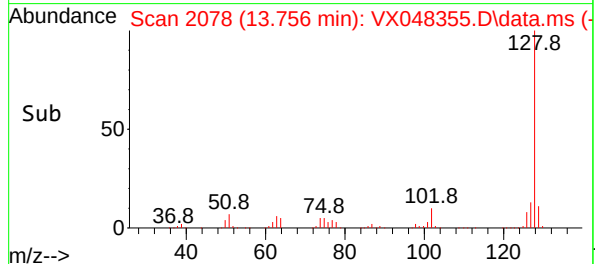
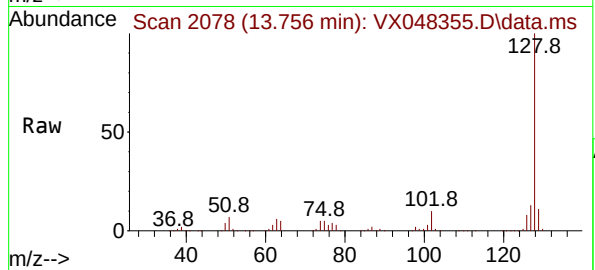
129 10.8 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#96

1,2,3-Trichlorobenzene

Concen: 52.774 ug/l

RT: 13.938 min Scan# 2108

Delta R.T. -0.000 min

Lab File: VX048355.D

Acq: 27 Oct 2025 09:05

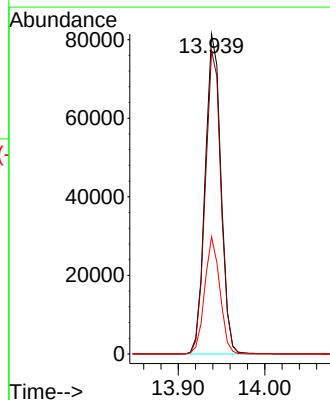
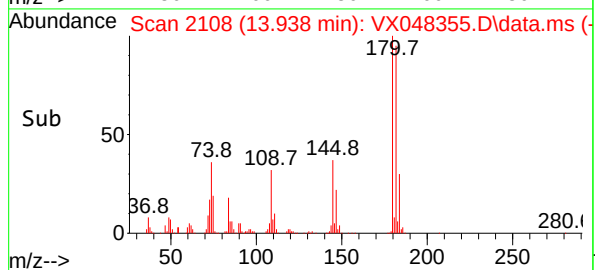
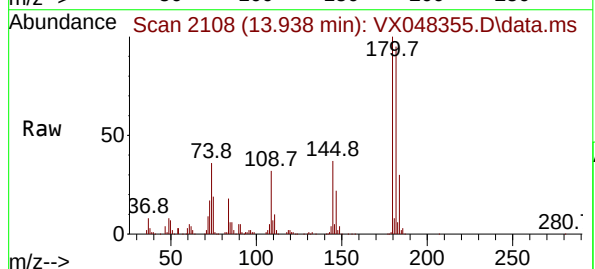
Tgt Ion:180 Resp: 103088

Ion Ratio Lower Upper

180 100

182 94.6 46.6 139.7

145 35.2 16.9 50.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
Data File : VX048355.D
Acq On : 27 Oct 2025 09:05
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 28 01:43:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	103	-0.01
2 T	Dichlorodifluoromethane	0.514	0.470	8.6	100	0.00
3 P	Chloromethane	0.480	0.266	44.6#	61	0.00
4 C	Vinyl Chloride	0.444	0.642	-44.6#	159#	0.00
5 T	Bromomethane	0.302	0.265	12.3	97	0.00
6 T	Chloroethane	0.261	0.405	-55.2#	169#	0.00
7 T	Trichlorofluoromethane	0.852	1.069	-25.5#	137	0.00
8 T	Diethyl Ether	0.240	0.426	-77.5#	197#	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.540	0.579	-7.2	119	0.00
10 T	Methyl Iodide	0.678	2.315	-241.4#	360#	0.00
11 T	Tert butyl alcohol	0.070	0.070	0.0	118	0.00
12 CM	1,1-Dichloroethene	0.525	0.574	-9.3#	122	0.00
13 T	Acrolein	0.071	0.092	-29.6#	146	0.00
14 T	Allyl chloride	0.872	1.053	-20.8	135	0.00
15 T	Acrylonitrile	0.251	0.296	-17.9	128	0.00
16 T	Acetone	0.240	0.158	34.2#	81	0.00
17 T	Carbon Disulfide	1.654	1.604	3.0	115	0.00
18 T	Methyl Acetate	0.502	0.641	-27.7#	142	0.00
19 T	Methyl tert-butyl Ether	1.791	2.193	-22.4	133	0.00
20 T	Methylene Chloride	0.586	0.694	-18.4	130	0.00
21 T	trans-1,2-Dichloroethene	0.577	0.636	-10.2	123	0.00
22 T	Diisopropyl ether	1.738	2.384	-37.2#	148	0.00
23 T	Vinyl Acetate	1.389	1.648	-18.6	126	0.00
24 P	1,1-Dichloroethane	1.051	1.267	-20.6	134	0.00
25 T	2-Butanone	0.304	0.278	8.6	102	-0.01
26 T	2,2-Dichloropropane	0.949	1.095	-15.4	129	0.00
27 T	cis-1,2-Dichloroethene	0.673	0.793	-17.8	131	0.00
28 T	Bromochloromethane	0.436	0.512	-17.4	120	0.00
29 T	Tetrahydrofuran	0.182	0.211	-15.9	128	0.00
30 C	Chloroform	1.123	1.342	-19.5#	132	0.00
31 T	Cyclohexane	0.870	0.960	-10.3	121	0.00
32 T	1,1,1-Trichloroethane	1.035	1.131	-9.3	120	0.00
33 S	1,2-Dichloroethane-d4	0.701	0.801	-14.3	121	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	110	0.00
35 S	Dibromofluoromethane	0.341	0.295	13.5	98	-0.01
36 T	1,1-Dichloropropene	0.485	0.472	2.7	120	-0.01
37 T	Ethyl Acetate	0.402	0.434	-8.0	130	0.00
38 T	Carbon Tetrachloride	0.599	0.549	8.3	109	0.00
39 T	Methylcyclohexane	0.573	0.580	-1.2	118	0.00
40 TM	Benzene	1.409	1.520	-7.9	128	0.00
41 T	Methacrylonitrile	0.211	0.245	-16.1	132	0.00
42 TM	1,2-Dichloroethane	0.520	0.607	-16.7	133	0.00
43 T	Isopropyl Acetate	0.661	0.788	-19.2	136	-0.01
44 TM	Trichloroethene	0.372	0.382	-2.7	120	0.00
45 C	1,2-Dichloropropane	0.335	0.395	-17.9#	135	0.00
46 T	Dibromomethane	0.261	0.291	-11.5	129	0.00
47 T	Bromodichloromethane	0.563	0.627	-11.4	128	0.00
48 T	Methyl methacrylate	0.333	0.396	-18.9	135	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
Data File : VX048355.D
Acq On : 27 Oct 2025 09:05
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 28 01:43:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	0.004	0.0	105	0.00
50 S	Toluene-d8	1.196	1.196	0.0	111	0.00
51 T	4-Methyl-2-Pentanone	0.381	0.433	-13.6	126	0.00
52 CM	Toluene	0.895	0.938	-4.8#	120	0.00
53 T	t-1,3-Dichloropropene	0.543	0.578	-6.4	116	0.00
54 T	cis-1,3-Dichloropropene	0.586	0.592	-1.0	114	0.00
55 T	1,1,2-Trichloroethane	0.333	0.365	-9.6	125	0.00
56 T	Ethyl methacrylate	0.487	0.556	-14.2	125	0.00
57 T	1,3-Dichloropropane	0.568	0.635	-11.8	127	0.00
58 T	2-Chloroethyl Vinyl ether	0.232	0.310	-33.6#	131	0.00
59 T	2-Hexanone	0.266	0.270	-1.5	111	0.00
60 T	Dibromochloromethane	0.447	0.463	-3.6	120	0.00
61 T	1,2-Dibromoethane	0.355	0.379	-6.8	122	0.00
62 S	4-Bromofluorobenzene	0.455	0.459	-0.9	114	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
64 T	Tetrachloroethene	0.373	0.376	-0.8	123	0.00
65 PM	Chlorobenzene	1.125	1.192	-6.0	122	0.00
66 T	1,1,1,2-Tetrachloroethane	0.413	0.430	-4.1	118	0.00
67 C	Ethyl Benzene	1.915	2.021	-5.5#	119	0.00
68 T	m/p-Xylenes	0.712	0.765	-7.4	119	0.00
69 T	o-Xylene	0.687	0.742	-8.0	119	0.00
70 T	Styrene	1.170	1.294	-10.6	121	0.00
71 P	Bromoform	0.330	0.319	3.3	111	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
73 T	Isopropylbenzene	3.652	3.867	-5.9	118	0.00
74 T	N-amyl acetate	1.295	1.598	-23.4	134	0.00
75 P	1,1,2,2-Tetrachloroethane	0.997	1.045	-4.8	116	0.00
76 T	1,2,3-Trichloropropane	0.811	0.861	-6.2	123	0.00
77 T	Bromobenzene	0.916	0.968	-5.7	118	0.00
78 T	n-propylbenzene	4.228	4.657	-10.1	121	0.00
79 T	2-Chlorotoluene	2.564	2.826	-10.2	123	0.00
80 T	1,3,5-Trimethylbenzene	3.022	3.231	-6.9	118	0.00
81 T	trans-1,4-Dichloro-2-butene	0.333	0.245	26.4#	81	0.00
82 T	4-Chlorotoluene	3.043	3.328	-9.4	121	0.00
83 T	tert-Butylbenzene	3.105	3.184	-2.5	114	0.00
84 T	1,2,4-Trimethylbenzene	3.016	3.288	-9.0	120	0.00
85 T	sec-Butylbenzene	3.736	3.986	-6.7	120	0.00
86 T	p-Isopropyltoluene	3.229	3.383	-4.8	119	0.00
87 T	1,3-Dichlorobenzene	1.726	1.770	-2.5	120	0.00
88 T	1,4-Dichlorobenzene	1.788	1.791	-0.2	119	0.00
89 T	n-Butylbenzene	2.939	3.209	-9.2	128	0.00
90 T	Hexachloroethane	0.638	0.613	3.9	113	0.00
91 T	1,2-Dichlorobenzene	1.621	1.705	-5.2	120	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.202	0.209	-3.5	112	0.00
93 T	1,2,4-Trichlorobenzene	1.096	1.156	-5.5	126	0.00
94 T	Hexachlorobutadiene	0.507	0.447	11.8	125	0.00
95 T	Naphthalene	2.904	3.088	-6.3	117	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
Data File : VX048355.D
Acq On : 27 Oct 2025 09:05
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 28 01:43:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	1.006	1.062	-5.6	122	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
Data File : VX048355.D
Acq On : 27 Oct 2025 09:05
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 28 01:43:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	103	-0.01
2 T	Dichlorodifluoromethane	50.000	45.700	8.6	100	0.00
3 P	Chloromethane	50.000	27.693	44.6#	61	0.00
4 C	Vinyl Chloride	50.000	72.289	-44.6#	159	0.00
5 T	Bromomethane	50.000	43.964	12.1	97	0.00
6 T	Chloroethane	50.000	77.506	-55.0#	169	0.00
7 T	Trichlorofluoromethane	50.000	62.731	-25.5#	137	0.00
8 T	Diethyl Ether	50.000	88.813	-77.6#	197	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	53.657	-7.3	119	0.00
10 T	Methyl Iodide	50.000	170.651	-241.3#	360	0.00
11 T	Tert butyl alcohol	250.000	253.037	-1.2	118	0.00
12 CM	1,1-Dichloroethene	50.000	54.714	-9.4#	122	0.00
13 T	Acrolein	250.000	325.021	-30.0#	146	0.00
14 T	Allyl chloride	50.000	60.436	-20.9	135	0.00
15 T	Acrylonitrile	250.000	294.566	-17.8	128	0.00
16 T	Acetone	250.000	164.135	34.3#	81	0.00
17 T	Carbon Disulfide	50.000	48.462	3.1	115	0.00
18 T	Methyl Acetate	50.000	63.795	-27.6#	142	0.00
19 T	Methyl tert-butyl Ether	50.000	61.239	-22.5	133	0.00
20 T	Methylene Chloride	50.000	59.186	-18.4	130	0.00
21 T	trans-1,2-Dichloroethene	50.000	55.112	-10.2	123	0.00
22 T	Diisopropyl ether	50.000	68.579	-37.2#	148	0.00
23 T	Vinyl Acetate	250.000	296.708	-18.7	126	0.00
24 P	1,1-Dichloroethane	50.000	60.256	-20.5	134	0.00
25 T	2-Butanone	250.000	228.555	8.6	102	-0.01
26 T	2,2-Dichloropropane	50.000	57.720	-15.4	129	0.00
27 T	cis-1,2-Dichloroethene	50.000	58.953	-17.9	131	0.00
28 T	Bromochloromethane	50.000	58.793	-17.6	120	0.00
29 T	Tetrahydrofuran	250.000	289.781	-15.9	128	0.00
30 C	Chloroform	50.000	59.771	-19.5#	132	0.00
31 T	Cyclohexane	50.000	55.187	-10.4	121	0.00
32 T	1,1,1-Trichloroethane	50.000	54.644	-9.3	120	0.00
33 S	1,2-Dichloroethane-d4	50.000	57.124	-14.2	121	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	110	0.00
35 S	Dibromofluoromethane	50.000	43.199	13.6	98	-0.01
36 T	1,1-Dichloropropene	50.000	48.656	2.7	120	-0.01
37 T	Ethyl Acetate	50.000	53.952	-7.9	130	0.00
38 T	Carbon Tetrachloride	50.000	45.877	8.2	109	0.00
39 T	Methylcyclohexane	50.000	50.642	-1.3	118	0.00
40 TM	Benzene	50.000	53.954	-7.9	128	0.00
41 T	Methacrylonitrile	50.000	58.033	-16.1	132	0.00
42 TM	1,2-Dichloroethane	50.000	58.388	-16.8	133	0.00
43 T	Isopropyl Acetate	50.000	59.642	-19.3	136	-0.01
44 TM	Trichloroethene	50.000	51.365	-2.7	120	0.00
45 C	1,2-Dichloropropane	50.000	58.961	-17.9#	135	0.00
46 T	Dibromomethane	50.000	55.674	-11.3	129	0.00
47 T	Bromodichloromethane	50.000	55.643	-11.3	128	0.00
48 T	Methyl methacrylate	50.000	59.435	-18.9	135	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
Data File : VX048355.D
Acq On : 27 Oct 2025 09:05
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 28 01:43:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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	966.279	3.4	105	0.00
50 S	Toluene-d8	50.000	49.970	0.1	111	0.00
51 T	4-Methyl-2-Pentanone	250.000	284.523	-13.8	126	0.00
52 CM	Toluene	50.000	52.397	-4.8#	120	0.00
53 T	t-1,3-Dichloropropene	50.000	53.212	-6.4	116	0.00
54 T	cis-1,3-Dichloropropene	50.000	50.527	-1.1	114	0.00
55 T	1,1,2-Trichloroethane	50.000	54.822	-9.6	125	0.00
56 T	Ethyl methacrylate	50.000	57.075	-14.2	125	0.00
57 T	1,3-Dichloropropane	50.000	55.818	-11.6	127	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	295.946	-18.4	131	0.00
59 T	2-Hexanone	250.000	253.948	-1.6	111	0.00
60 T	Dibromochloromethane	50.000	51.739	-3.5	120	0.00
61 T	1,2-Dibromoethane	50.000	53.368	-6.7	122	0.00
62 S	4-Bromofluorobenzene	50.000	50.390	-0.8	114	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	107	0.00
64 T	Tetrachloroethene	50.000	50.413	-0.8	123	0.00
65 PM	Chlorobenzene	50.000	53.007	-6.0	122	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	52.052	-4.1	118	0.00
67 C	Ethyl Benzene	50.000	52.775	-5.5#	119	0.00
68 T	m/p-Xylenes	100.000	107.585	-7.6	119	0.00
69 T	o-Xylene	50.000	53.997	-8.0	119	0.00
70 T	Styrene	50.000	55.316	-10.6	121	0.00
71 P	Bromoform	50.000	48.260	3.5	111	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
73 T	Isopropylbenzene	50.000	52.939	-5.9	118	0.00
74 T	N-ethyl acetate	50.000	61.665	-23.3	134	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	52.390	-4.8	116	0.00
76 T	1,2,3-Trichloropropane	50.000	53.106	-6.2	123	0.00
77 T	Bromobenzene	50.000	52.830	-5.7	118	0.00
78 T	n-propylbenzene	50.000	55.070	-10.1	121	0.00
79 T	2-Chlorotoluene	50.000	55.110	-10.2	123	0.00
80 T	1,3,5-Trimethylbenzene	50.000	53.461	-6.9	118	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	36.799	26.4#	81	0.00
82 T	4-Chlorotoluene	50.000	54.685	-9.4	121	0.00
83 T	tert-Butylbenzene	50.000	51.264	-2.5	114	0.00
84 T	1,2,4-Trimethylbenzene	50.000	54.510	-9.0	120	0.00
85 T	sec-Butylbenzene	50.000	53.347	-6.7	120	0.00
86 T	p-Isopropyltoluene	50.000	52.381	-4.8	119	0.00
87 T	1,3-Dichlorobenzene	50.000	51.258	-2.5	120	0.00
88 T	1,4-Dichlorobenzene	50.000	50.063	-0.1	119	0.00
89 T	n-Butylbenzene	50.000	54.597	-9.2	128	0.00
90 T	Hexachloroethane	50.000	48.050	3.9	113	0.00
91 T	1,2-Dichlorobenzene	50.000	52.585	-5.2	120	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	51.538	-3.1	112	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.712	-5.4	126	0.00
94 T	Hexachlorobutadiene	50.000	54.450	-8.9	125	0.00
95 T	Naphthalene	50.000	53.163	-6.3	117	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
Data File : VX048355.D
Acq On : 27 Oct 2025 09:05
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 28 01:43:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.774	-5.5	122	0.00

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



QC SAMPLE DATA

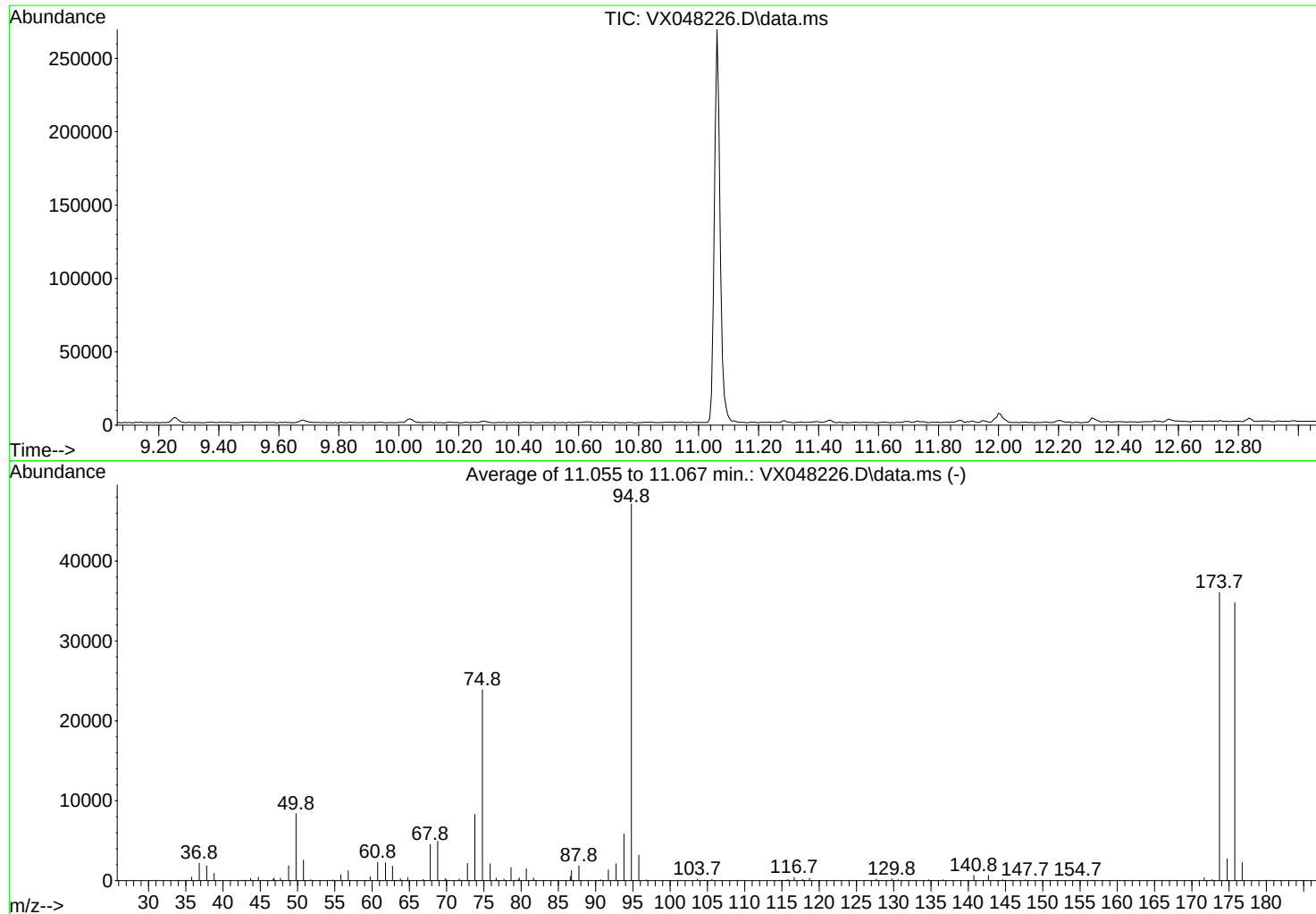
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102025\
Data File : VX048226.D
Acq On : 20 Oct 2025 08:15
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\82X102025W.M
Title : SW846 8260
Last Update : Mon Oct 20 14:13:59 2025



AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1629

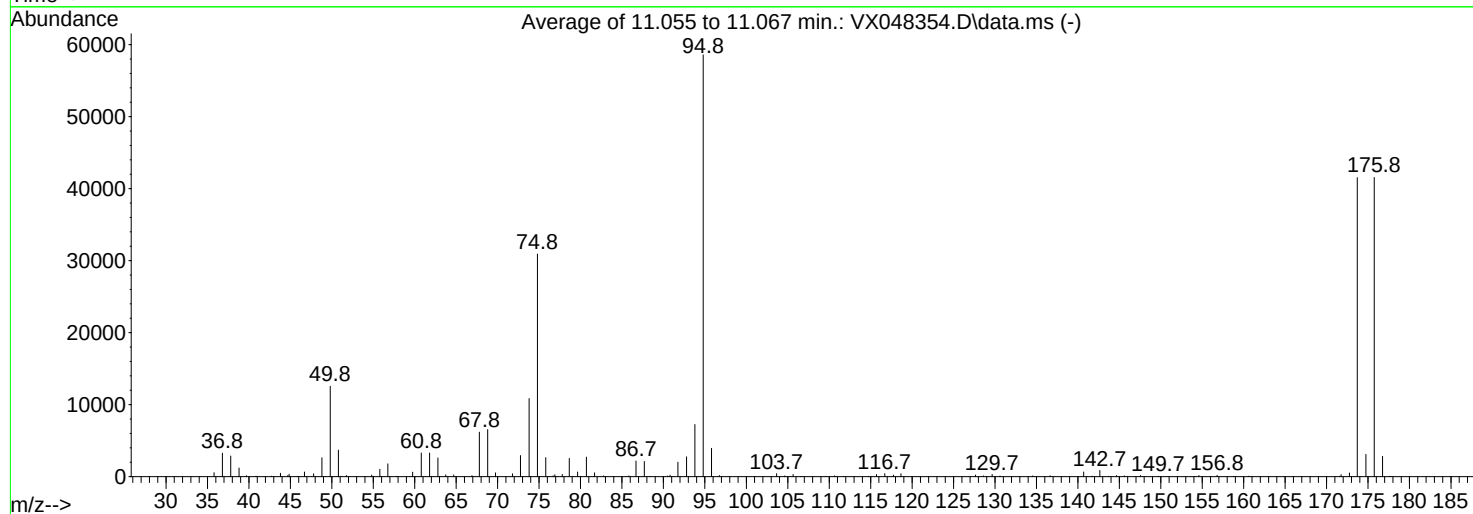
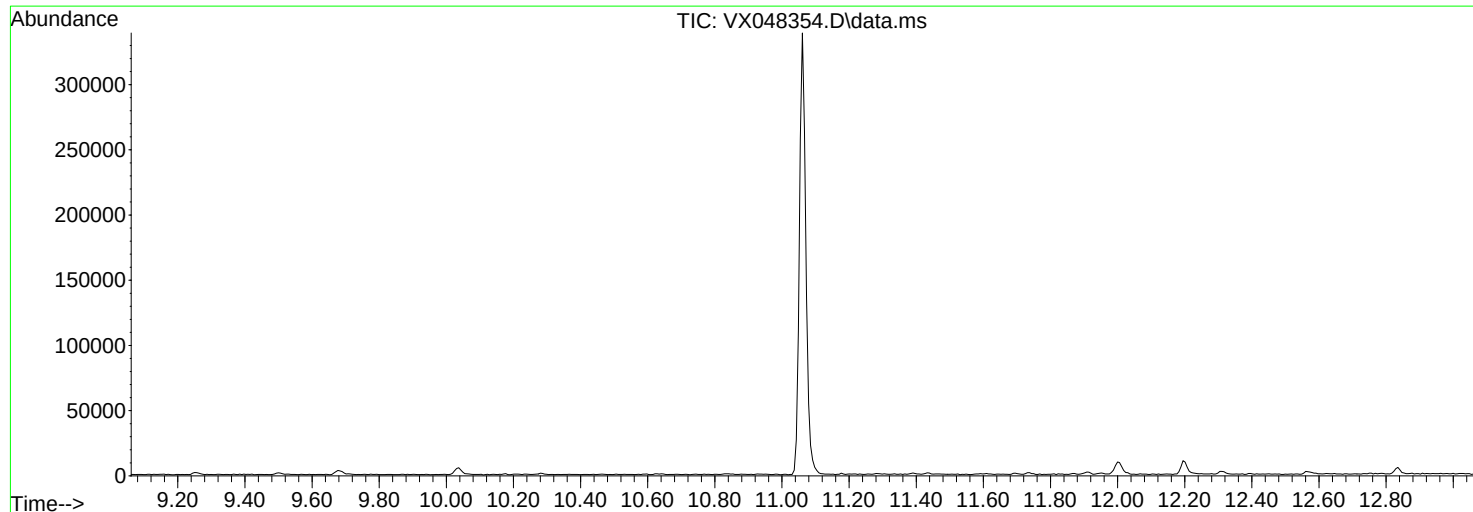
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	17.7	8374	PASS
75	95	30	60	50.7	23901	PASS
95	95	100	100	100.0	47184	PASS
96	95	5	9	6.8	3185	PASS
173	174	0.00	2	0.4	138	PASS
174	95	50	100	76.5	36091	PASS
175	174	5	9	7.5	2719	PASS
176	174	95	101	96.4	34800	PASS
177	176	5	9	6.5	2253	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
Data File : VX048354.D
Acq On : 27 Oct 2025 08:05
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\82X102025W.M
Title : SW846 8260
Last Update : Mon Oct 20 14:13:59 2025



AutoFind: Scans 1635, 1636, 1637; Background Corrected with Scan 1629

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	21.4	12560	PASS
75	95	30	60	52.8	30909	PASS
95	95	100	100	100.0	58579	PASS
96	95	5	9	6.7	3928	PASS
173	174	0.00	2	1.2	516	PASS
174	95	50	100	70.9	41533	PASS
175	174	5	9	7.4	3082	PASS
176	174	95	101	100.1	41563	PASS
177	176	5	9	6.8	2828	PASS

Report of Analysis

Client: Weston Solutions, Inc.
 Project: RFP 905
 Client Sample ID: VX1027WBL01
 Lab Sample ID: VX1027WBL01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level : LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3447
 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	10/27/25 09:37	VX102725
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	5.00	ug/L	10/27/25 09:37	VX102725
78-93-3	2-Butanone	0.98	U	1	0.98	25.0	ug/L	10/27/25 09:37	VX102725
56-23-5	Carbon Tetrachloride	0.25	U	1	0.25	5.00	ug/L	10/27/25 09:37	VX102725
67-66-3	Chloroform	0.25	U	1	0.25	5.00	ug/L	10/27/25 09:37	VX102725
71-43-2	Benzene	0.15	U	1	0.15	5.00	ug/L	10/27/25 09:37	VX102725
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	5.00	ug/L	10/27/25 09:37	VX102725
79-01-6	Trichloroethene	0.090	U	1	0.090	5.00	ug/L	10/27/25 09:37	VX102725
127-18-4	Tetrachloroethene	0.23	U	1	0.23	5.00	ug/L	10/27/25 09:37	VX102725
108-90-7	Chlorobenzene	0.12	U	1	0.12	5.00	ug/L	10/27/25 09:37	VX102725
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	52.5			74 - 125	105%	SPK: 50		
1868-53-7	Dibromofluoromethane	40.3			75 - 124	81%	SPK: 50		
2037-26-5	Toluene-d8	44.9			86 - 113	90%	SPK: 50		
460-00-4	4-Bromofluorobenzene	47.0			77 - 121	94%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	109000							
540-36-3	1,4-Difluorobenzene	209000							
3114-55-4	Chlorobenzene-d5	201000							
3855-82-1	1,4-Dichlorobenzene-d4	91700							

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\VX102725\
Data File : VX048356.D
Acq On : 27 Oct 2025 09:37
Operator : JC/MD
Sample : VX1027WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBL01

Quant Time: Oct 28 01:47:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.525	168	108748	50.000	ug/l	-0.02
34) 1,4-Difluorobenzene	6.739	114	209060	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	200526	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	91743	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	80044	52.497	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	105.000%
35) Dibromofluoromethane	5.361	113	57511	40.295	ug/l	-0.01
Spiked Amount	50.000	Range	75 - 124	Recovery	=	80.600%
50) Toluene-d8	8.629	98	224858	44.948	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	89.900%#
62) 4-Bromofluorobenzene	11.061	95	89353	46.950	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	93.900%

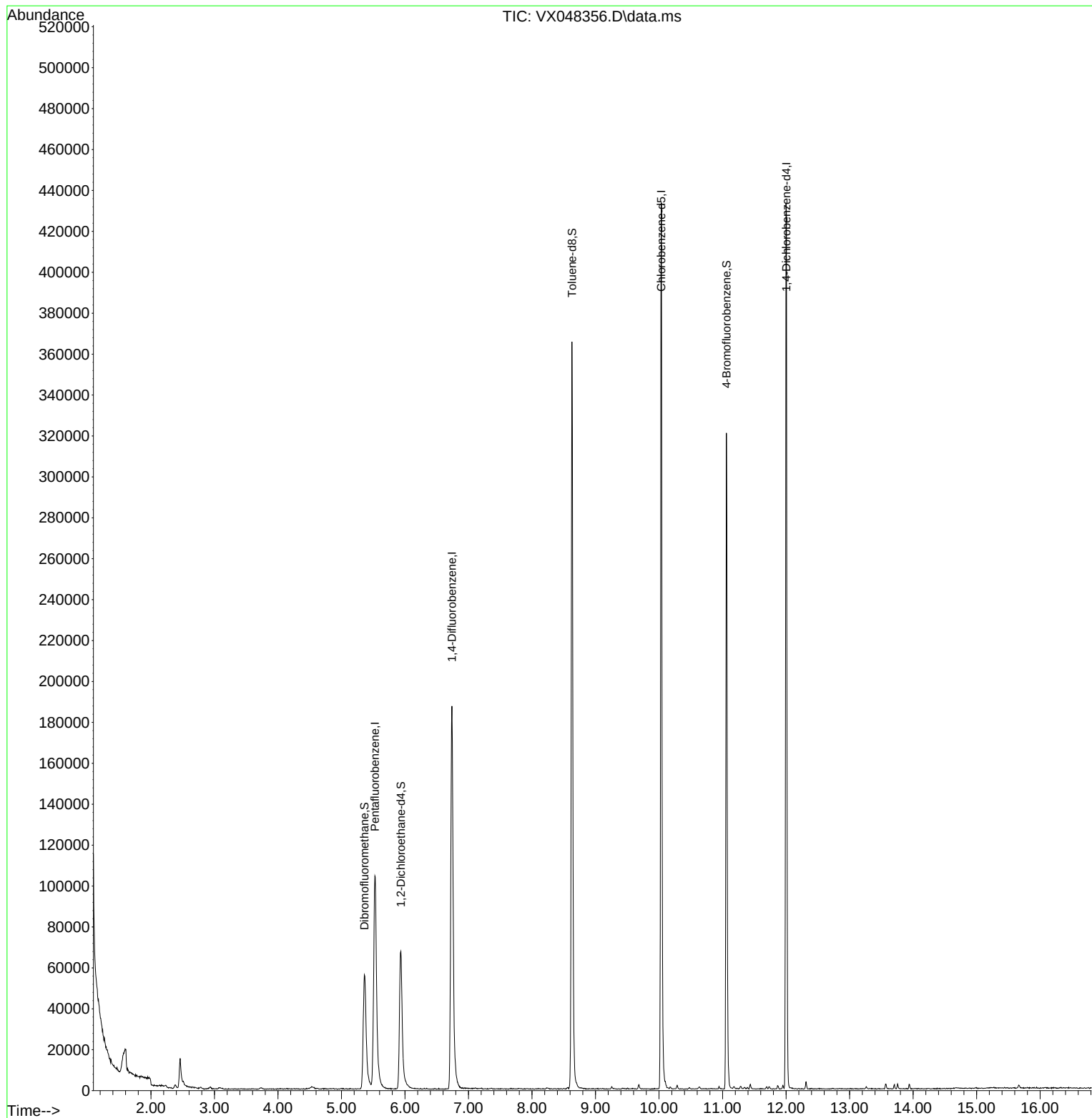
Target Compounds	Qvalue

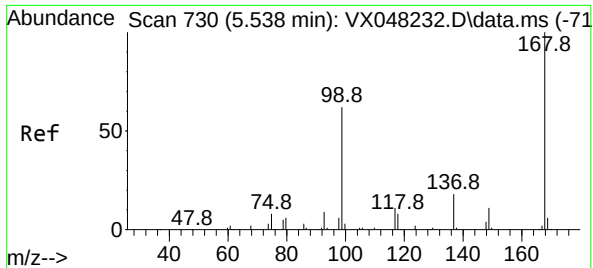
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
Data File : VX048356.D
Acq On : 27 Oct 2025 09:37
Operator : JC/MD
Sample : VX1027WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBL01

Quant Time: Oct 28 01:47:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 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: VX048356.D

Acq: 27 Oct 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

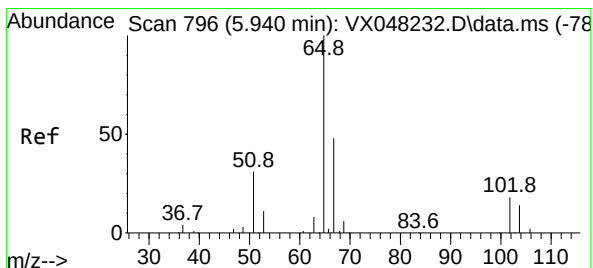
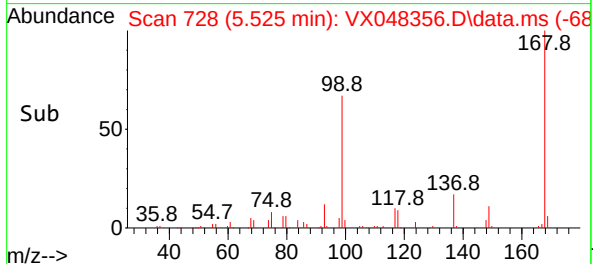
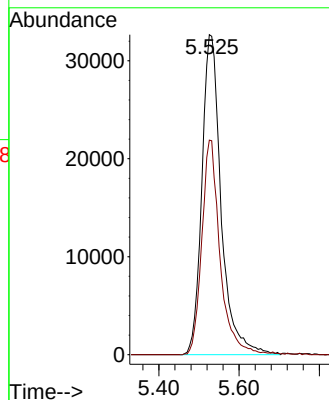
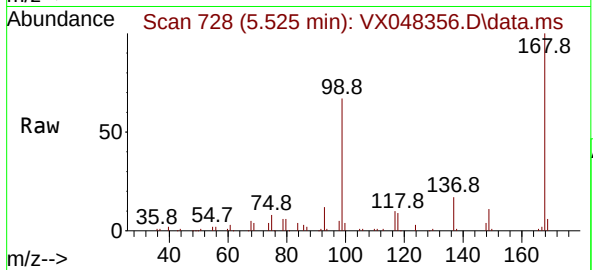
VX1027WBL01

Tgt Ion:168 Resp: 108748

Ion Ratio Lower Upper

168 100

99 67.1 46.4 69.6



#33

1,2-Dichloroethane-d4

Concen: 52.497 ug/l

RT: 5.934 min Scan# 795

Delta R.T. -0.006 min

Lab File: VX048356.D

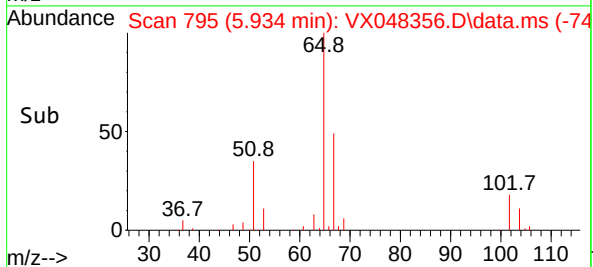
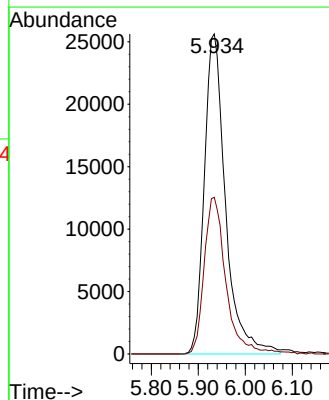
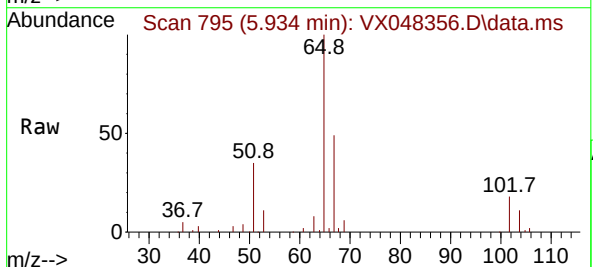
Acq: 27 Oct 2025 09:37

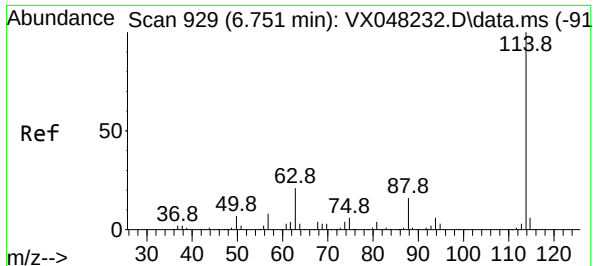
Tgt Ion: 65 Resp: 80044

Ion Ratio Lower Upper

65 100

67 50.4 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.739 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX048356.D

Acq: 27 Oct 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBL01

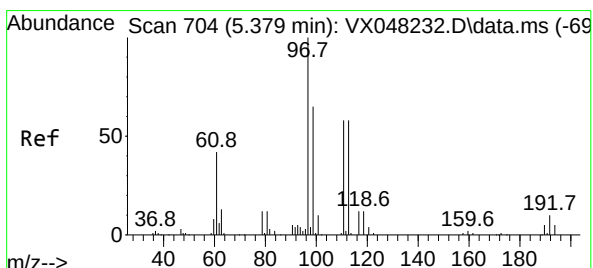
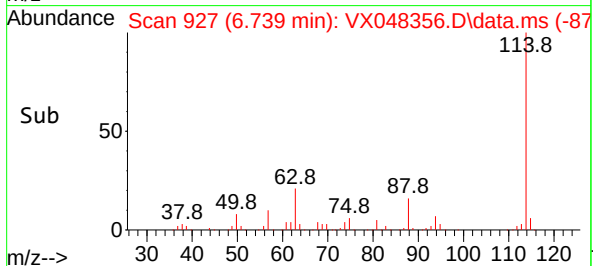
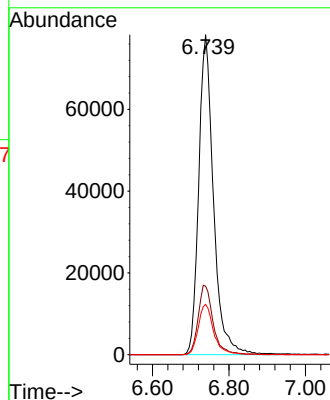
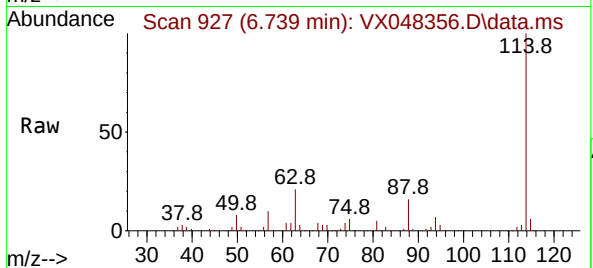
Tgt Ion:114 Resp: 209060

Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.2

88 15.7 0.0 33.6



#35

Dibromofluoromethane

Concen: 40.295 ug/l

RT: 5.361 min Scan# 701

Delta R.T. -0.012 min

Lab File: VX048356.D

Acq: 27 Oct 2025 09:37

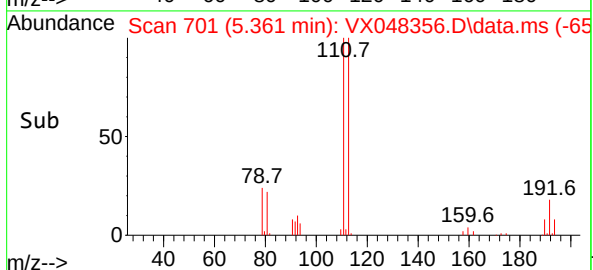
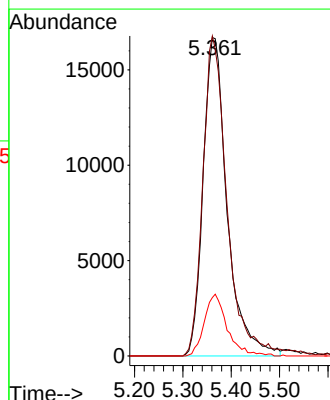
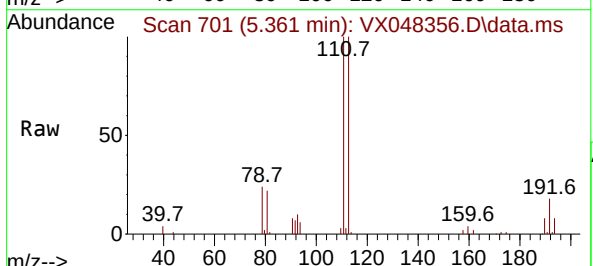
Tgt Ion:113 Resp: 57511

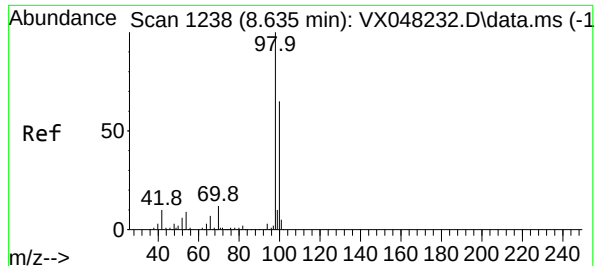
Ion Ratio Lower Upper

113 100

111 101.3 82.2 123.4

192 18.5 15.1 22.7





#50

Toluene-d8

Concen: 44.948 ug/l

RT: 8.629 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX048356.D

Acq: 27 Oct 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

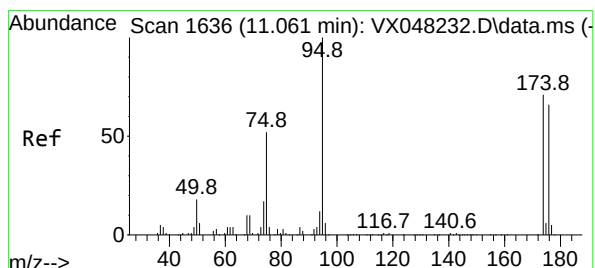
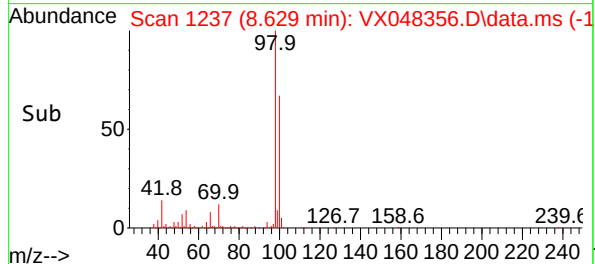
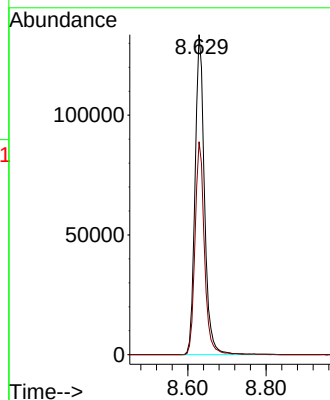
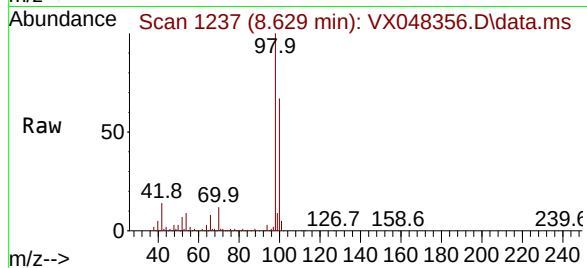
VX1027WBL01

Tgt Ion: 98 Resp: 224858

Ion Ratio Lower Upper

98 100

100 66.0 53.0 79.4



#62

4-Bromofluorobenzene

Concen: 46.950 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. 0.000 min

Lab File: VX048356.D

Acq: 27 Oct 2025 09:37

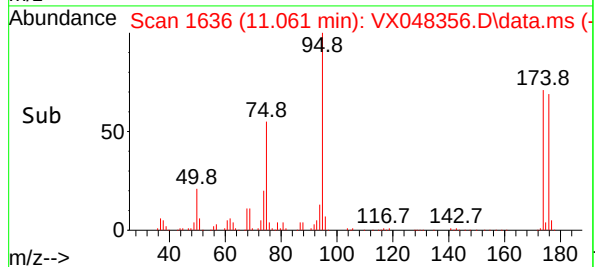
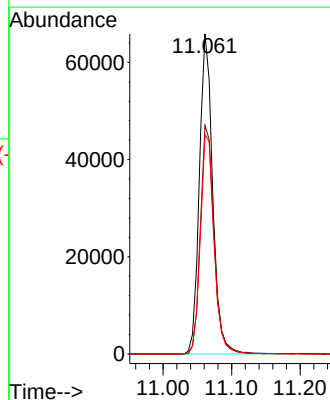
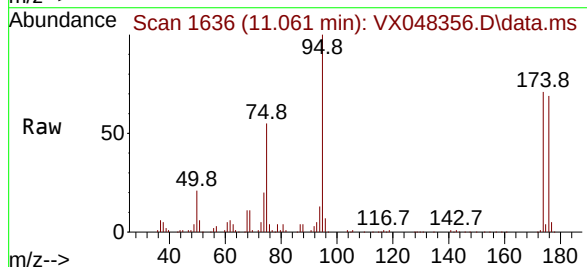
Tgt Ion: 95 Resp: 89353

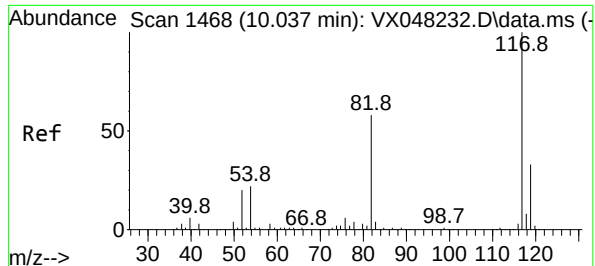
Ion Ratio Lower Upper

95 100

174 73.2 0.0 147.8

176 70.3 0.0 142.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. 0.000 min

Lab File: VX048356.D

Acq: 27 Oct 2025 09:37

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBL01

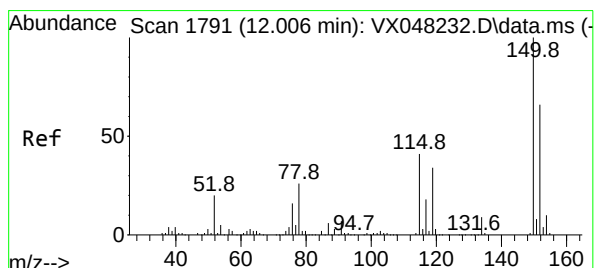
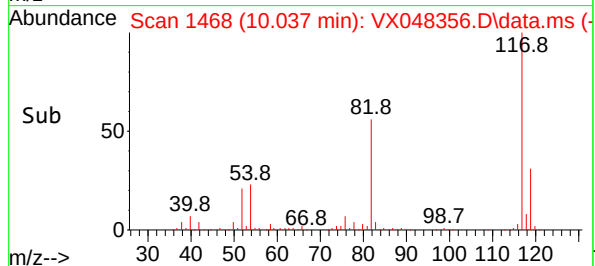
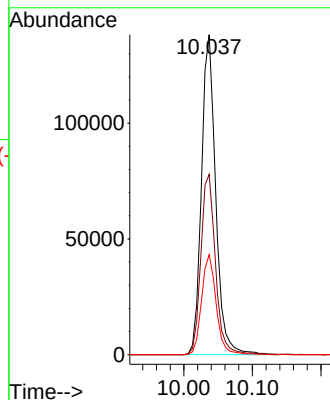
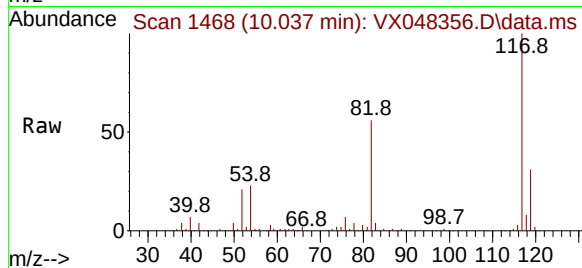
Tgt Ion:117 Resp: 200526

Ion Ratio Lower Upper

117 100

82 56.4 46.5 69.7

119 31.3 25.9 38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX048356.D

Acq: 27 Oct 2025 09:37

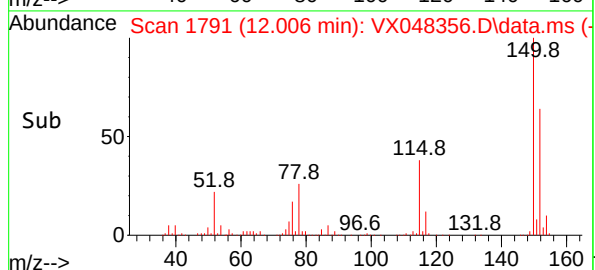
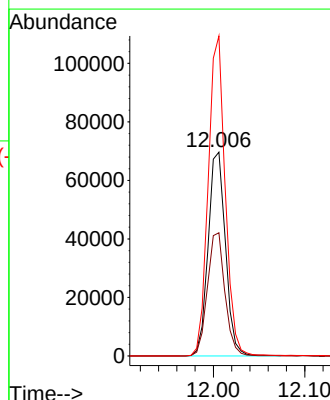
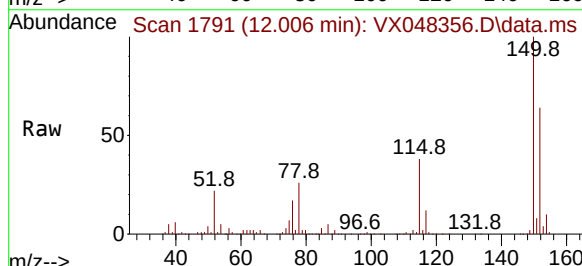
Tgt Ion:152 Resp: 91743

Ion Ratio Lower Upper

152 100

115 61.1 43.1 129.4

150 153.9 0.0 353.0



Report of Analysis

Client: Weston Solutions, Inc.
 Project: RFP 905
 Client Sample ID: VX1027WBS01
 Lab Sample ID: VX1027WBS01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level : LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3447
 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	27.7		1	0.26	5.00	ug/L	10/27/25 10:04	VX102725
75-35-4	1,1-Dichloroethene	20.6		1	0.23	5.00	ug/L	10/27/25 10:04	VX102725
78-93-3	2-Butanone	87.9		1	0.98	25.0	ug/L	10/27/25 10:04	VX102725
56-23-5	Carbon Tetrachloride	18.2		1	0.25	5.00	ug/L	10/27/25 10:04	VX102725
67-66-3	Chloroform	21.9		1	0.25	5.00	ug/L	10/27/25 10:04	VX102725
71-43-2	Benzene	20.2		1	0.15	5.00	ug/L	10/27/25 10:04	VX102725
107-06-2	1,2-Dichloroethane	21.7		1	0.22	5.00	ug/L	10/27/25 10:04	VX102725
79-01-6	Trichloroethene	19.9		1	0.090	5.00	ug/L	10/27/25 10:04	VX102725
127-18-4	Tetrachloroethene	19.5		1	0.23	5.00	ug/L	10/27/25 10:04	VX102725
108-90-7	Chlorobenzene	19.6		1	0.12	5.00	ug/L	10/27/25 10:04	VX102725
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	59.3			74 - 125	119%	SPK: 50		
1868-53-7	Dibromofluoromethane	43.6			75 - 124	87%	SPK: 50		
2037-26-5	Toluene-d8	51.4			86 - 113	103%	SPK: 50		
460-00-4	4-Bromofluorobenzene	51.8			77 - 121	104%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	142000							
540-36-3	1,4-Difluorobenzene	244000							
3114-55-4	Chlorobenzene-d5	221000							
3855-82-1	1,4-Dichlorobenzene-d4	111000							

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\VX102725\
 Data File : VX048357.D
 Acq On : 27 Oct 2025 10:04
 Operator : JC/MD
 Sample : VX1027WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1027WBS01

Quant Time: Oct 28 01:47:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 10/28/2025
 Supervised By :Mahesh Dadoda 10/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.531	168	142483	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.738	114	244417	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	221107	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	110523	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	118480	59.308	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 118.620%#			
35) Dibromofluoromethane	5.367	113	72735	43.590	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 87.180%			
50) Toluene-d8	8.628	98	300486	51.377	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 102.760%			
62) 4-Bromofluorobenzene	11.061	95	115332	51.834	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 103.660%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.172	85	25690	17.539	ug/l	97
3) Chloromethane	1.300	50	14387	10.523	ug/l	100
4) Vinyl Chloride	1.380	62	35123	27.742	ug/l	100
5) Bromomethane	1.617	94	12921	15.038	ug/l	97
6) Chloroethane	1.697	64	21643	29.092	ug/l	93
7) Trichlorofluoromethane	1.898	101	58408	24.055	ug/l	99
8) Diethyl Ether	2.136	74	21357	31.260	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.337	101	31235	20.315	ug/l	97
10) Methyl Iodide	2.459	142	124122	64.214	ug/l	99
11) Tert butyl alcohol	2.928	59	16702	84.206	ug/l	98
12) 1,1-Dichloroethene	2.325	96	30786	20.581	ug/l	99
13) Acrolein	2.233	56	27333	135.116	ug/l	99
14) Allyl chloride	2.666	41	56039	22.564	ug/l	97
15) Acrylonitrile	3.050	53	72393	101.218	ug/l	98
16) Acetone	2.373	43	47269	68.973	ug/l	98
17) Carbon Disulfide	2.514	76	84163	17.852	ug/l	97
18) Methyl Acetate	2.697	43	32343	22.598	ug/l	98
19) Methyl tert-butyl Ether	3.105	73	112289	22.004	ug/l	99
20) Methylene Chloride	2.788	84	35958	21.533	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	33393	20.323	ug/l	99
22) Diisopropyl ether	3.745	45	122466	24.723	ug/l	98
23) Vinyl Acetate	3.709	43	444900	112.437	ug/l	98
24) 1,1-Dichloroethane	3.599	63	66140	22.082	ug/l	99
25) 2-Butanone	4.532	43	76270	87.924	ug/l	95
26) 2,2-Dichloropropane	4.458	77	58835	21.762	ug/l	97
27) cis-1,2-Dichloroethene	4.477	96	40948	21.353	ug/l	98
28) Bromochloromethane	4.879	49	26988	21.731	ug/l	98
29) Tetrahydrofuran	4.977	42	51000	98.168	ug/l	96
30) Chloroform	5.074	83	70158	21.924	ug/l	95
31) Cyclohexane	5.452	56	53521	21.583	ug/l	93
32) 1,1,1-Trichloroethane	5.367	97	61535	20.865	ug/l	98
36) 1,1-Dichloropropene	5.672	75	45441	19.160	ug/l	98
37) Ethyl Acetate	4.690	43	41160	20.938	ug/l	97
38) Carbon Tetrachloride	5.659	117	53157	18.167	ug/l	94
39) Methylcyclohexane	7.360	83	53168	18.982	ug/l	99
40) Benzene	6.019	78	139040	20.193	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
 Data File : VX048357.D
 Acq On : 27 Oct 2025 10:04
 Operator : JC/MD
 Sample : VX1027WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1027WBS01

Quant Time: Oct 28 01:47:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/28/2025
 Supervised By : Mahesh Dadoda 10/28/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.903	41	21821	21.137	ug/l	97
42) 1,2-Dichloroethane	6.068	62	55222	21.734	ug/l	99
43) Isopropyl Acetate	6.318	43	69681	21.579	ug/l	99
44) Trichloroethene	7.104	130	36190	19.905	ug/l	97
45) 1,2-Dichloropropane	7.415	63	35120	21.452	ug/l	98
46) Dibromomethane	7.561	93	25923	20.325	ug/l	99
47) Bromodichloromethane	7.799	83	55644	20.206	ug/l	95
48) Methyl methacrylate	7.677	41	34813	21.366	ug/l	97
49) 1,4-Dioxane	7.641	88	7544	350.450	ug/l	98
51) 4-Methyl-2-Pentanone	8.555	43	197835	106.262	ug/l	98
52) Toluene	8.702	92	86611	19.800	ug/l	98
53) t-1,3-Dichloropropene	8.958	75	52271	19.697	ug/l	96
54) cis-1,3-Dichloropropene	8.348	75	55170	19.269	ug/l	95
55) 1,1,2-Trichloroethane	9.134	97	32804	20.165	ug/l	98
56) Ethyl methacrylate	9.098	69	46549	19.563	ug/l	95
57) 1,3-Dichloropropane	9.293	76	57867	20.825	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.226	63	120150	94.971	ug/l	100
59) 2-Hexanone	9.409	43	124813	96.144	ug/l	99
60) Dibromochloromethane	9.500	129	40873	18.694	ug/l	98
61) 1,2-Dibromoethane	9.592	107	33715	19.441	ug/l	100
64) Tetrachloroethene	9.256	164	32232	19.527	ug/l	96
65) Chlorobenzene	10.061	112	97688	19.640	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.146	131	35473	19.417	ug/l	97
67) Ethyl Benzene	10.177	91	164016	19.368	ug/l	99
68) m/p-Xylenes	10.281	106	124400	39.537	ug/l	100
69) o-Xylene	10.622	106	59735	19.665	ug/l	99
70) Styrene	10.634	104	102542	19.825	ug/l	99
71) Bromoform	10.780	173	24833	17.008	ug/l #	100
73) Isopropylbenzene	10.945	105	155818	19.302	ug/l	99
74) N-amyl acetate	10.823	43	60091	20.985	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	41111	18.649	ug/l	99
76) 1,2,3-Trichloropropane	11.219	75	33085m	18.459	ug/l	
77) Bromobenzene	11.177	156	37603	18.577	ug/l	98
78) n-propylbenzene	11.286	91	182569	19.533	ug/l	100
79) 2-Chlorotoluene	11.347	91	111945	19.755	ug/l	99
80) 1,3,5-Trimethylbenzene	11.433	105	130099	19.474	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	9597	13.027	ug/l #	67
82) 4-Chlorotoluene	11.433	91	132574	19.708	ug/l	99
83) tert-Butylbenzene	11.695	119	129729	18.900	ug/l	99
84) 1,2,4-Trimethylbenzene	11.731	105	129721	19.457	ug/l	99
85) sec-Butylbenzene	11.872	105	161128	19.512	ug/l	100
86) p-Isopropyltoluene	11.988	119	136294	19.094	ug/l	98
87) 1,3-Dichlorobenzene	11.951	146	71158	18.648	ug/l	100
88) 1,4-Dichlorobenzene	12.024	146	72075	18.233	ug/l	98
89) n-Butylbenzene	12.317	91	124628	19.183	ug/l	99
90) Hexachloroethane	12.518	117	23513	16.681	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	67180	18.752	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.920	75	8405	18.783	ug/l	88
93) 1,2,4-Trichlorobenzene	13.567	180	42780	17.657	ug/l	98
94) Hexachlorobutadiene	13.707	225	18210	20.098	ug/l	98
95) Naphthalene	13.756	128	116331	18.123	ug/l	100
96) 1,2,3-Trichlorobenzene	13.945	180	40946	18.417	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
Data File : VX048357.D
Acq On : 27 Oct 2025 10:04
Operator : JC/MD
Sample : VX1027WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 28 01:47:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025

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

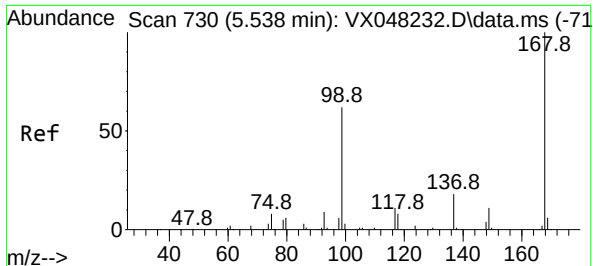
(#) = qualifier out of range (m) = manual integration (+) = signals summed						

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025





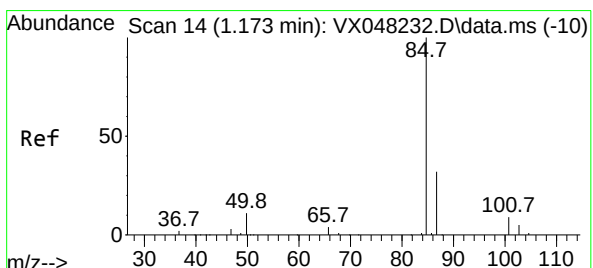
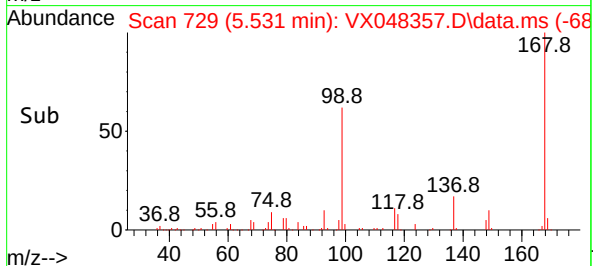
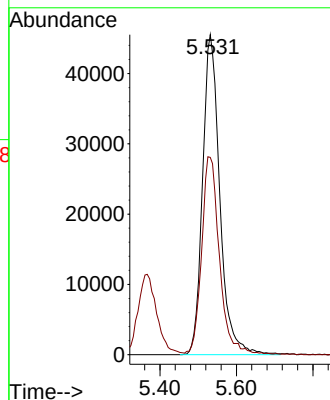
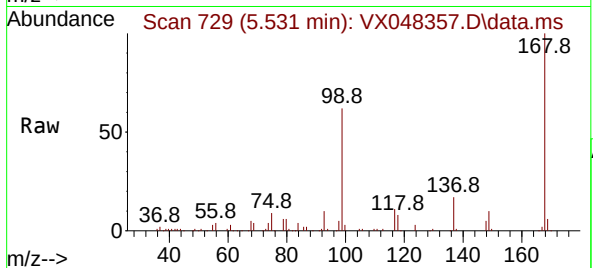
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Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 71
Delta R.T. -0.013 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01

Tgt Ion:168 Resp: 14248
Ion Ratio Lower Upper
168 100
99 61.5 46.4 69.6

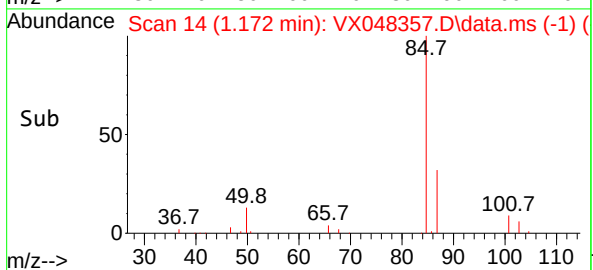
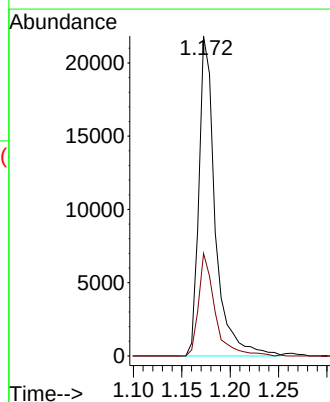
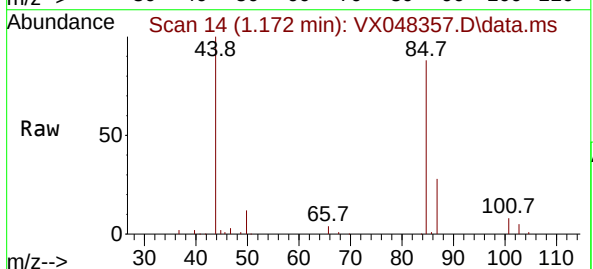
Manual Integrations
APPROVED

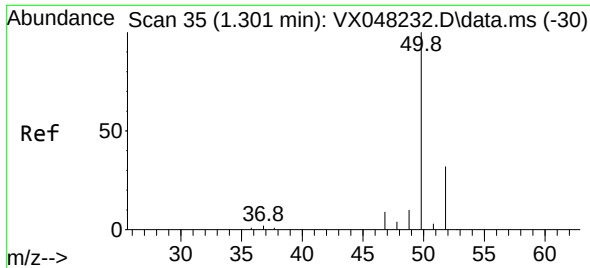
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#2
Dichlorodifluoromethane
Concen: 17.539 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Tgt Ion: 85 Resp: 25690
Ion Ratio Lower Upper
85 100
87 32.1 15.3 45.9





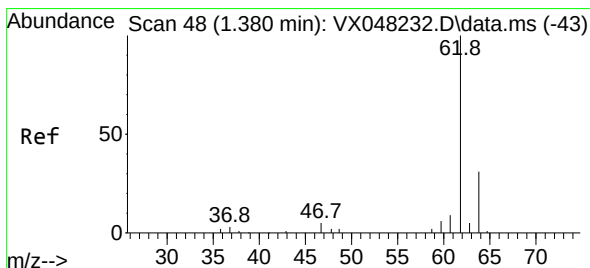
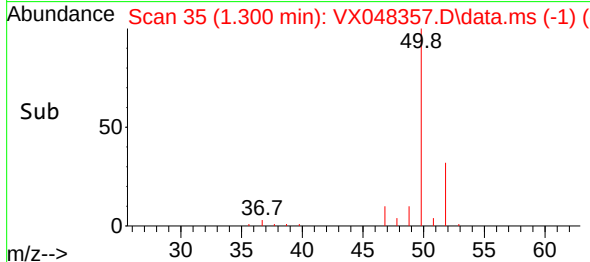
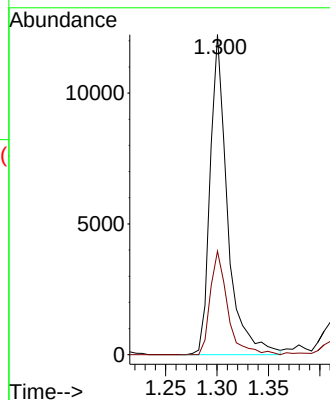
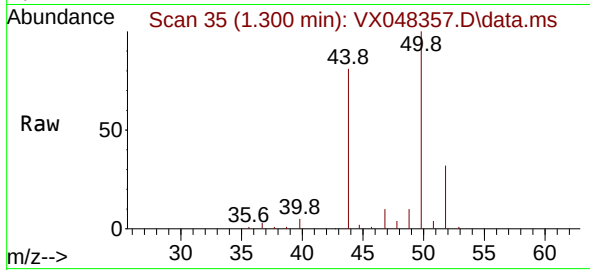
#3
Chloromethane
Concen: 10.523 ug/l
RT: 1.300 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01

Tgt Ion: 50 Resp: 1438
Ion Ratio Lower Upper
50 100
52 32.4 25.9 38.9

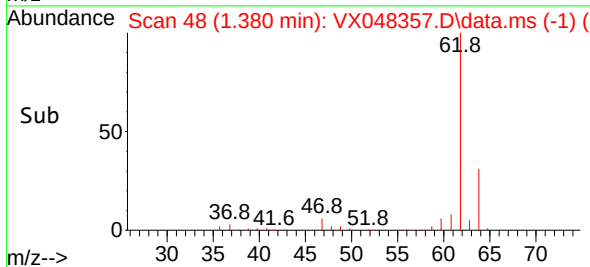
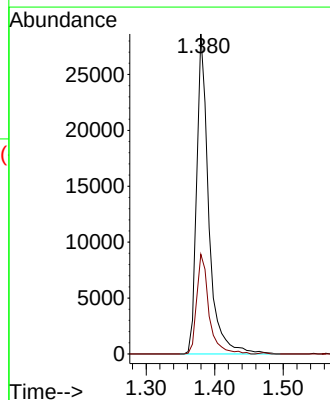
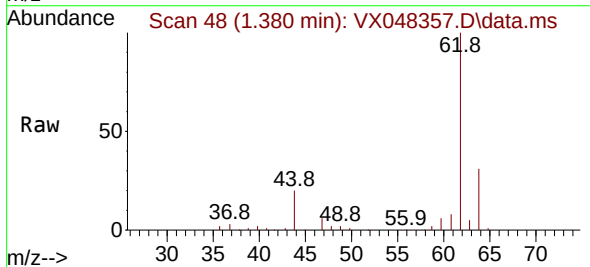
Manual Integrations
APPROVED

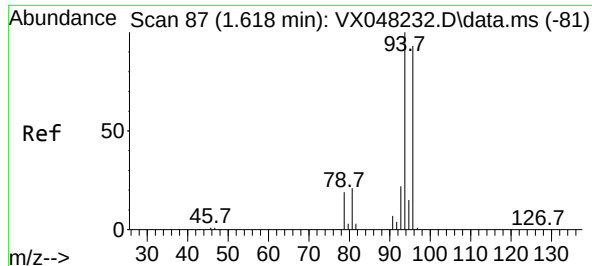
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#4
Vinyl Chloride
Concen: 27.742 ug/l
RT: 1.380 min Scan# 48
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Tgt Ion: 62 Resp: 35123
Ion Ratio Lower Upper
62 100
64 31.2 25.1 37.7





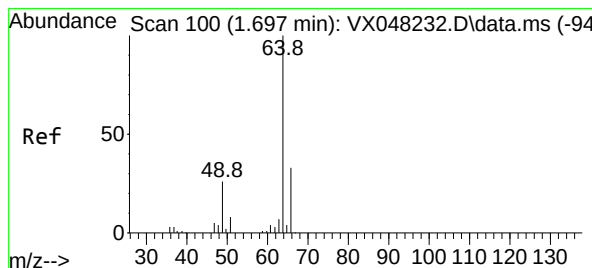
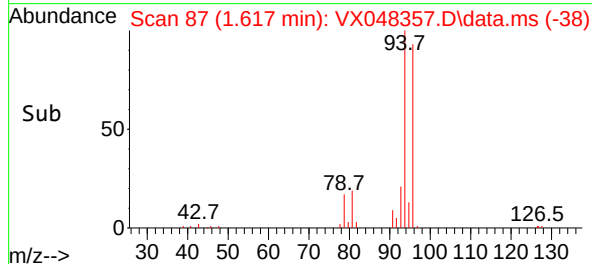
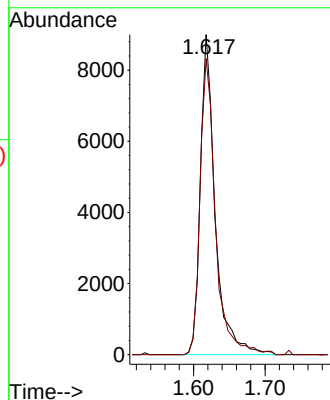
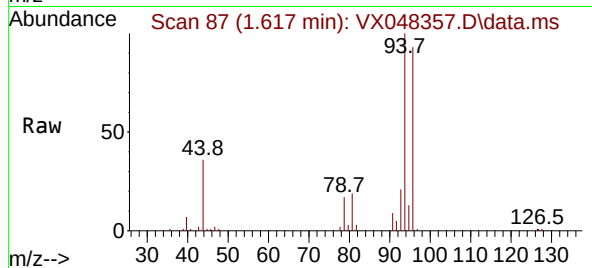
#5
Bromomethane
Concen: 15.038 ug/l
RT: 1.617 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01

Tgt Ion: 94 Resp: 1292
Ion Ratio Lower Upper
94 100
96 92.6 76.0 114.0

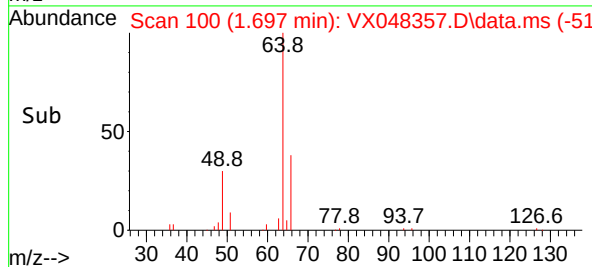
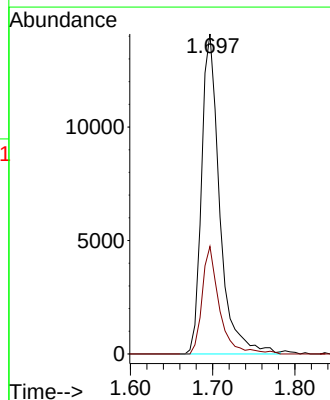
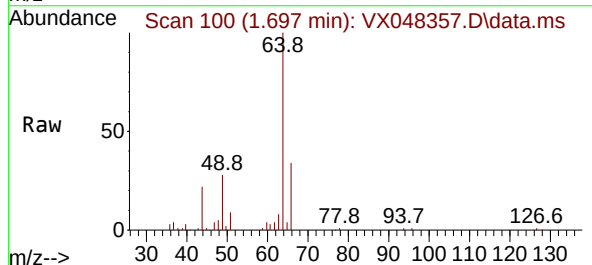
Manual Integrations
APPROVED

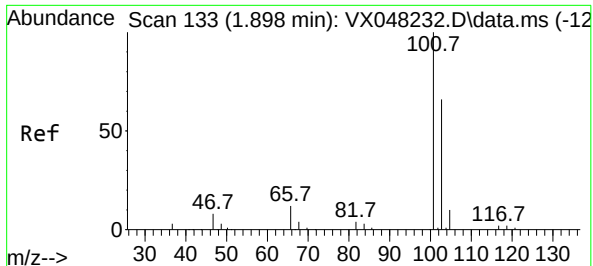
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#6
Chloroethane
Concen: 29.092 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Tgt Ion: 64 Resp: 21643
Ion Ratio Lower Upper
64 100
66 33.6 23.9 35.9





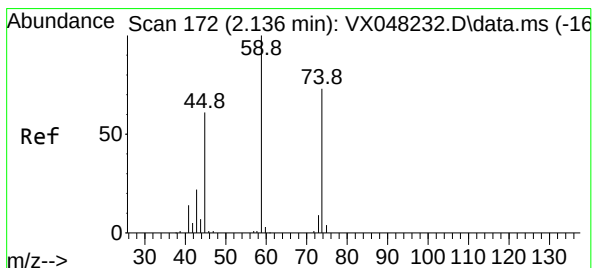
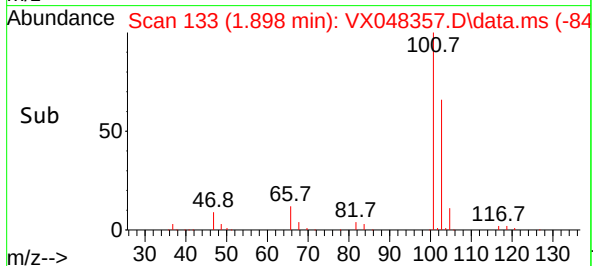
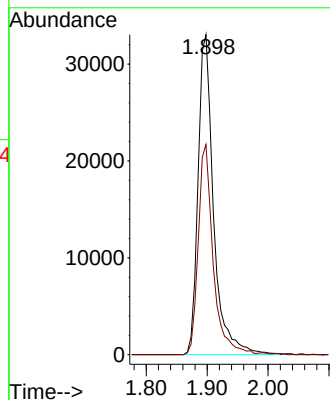
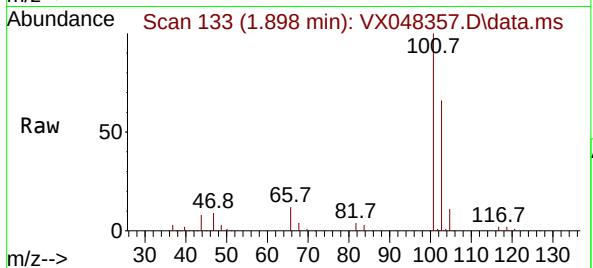
#7
Trichlorofluoromethane
Concen: 24.055 ug/l
RT: 1.898 min Scan# 133
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01

Tgt Ion:101 Resp: 58408
Ion Ratio Lower Upper
101 100
103 65.6 51.6 77.4

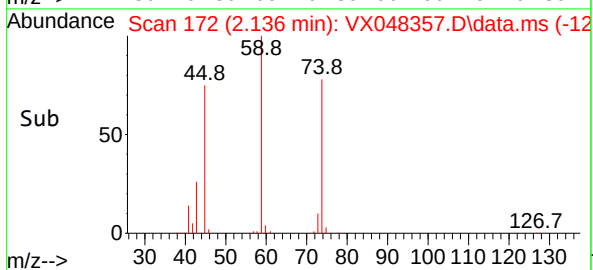
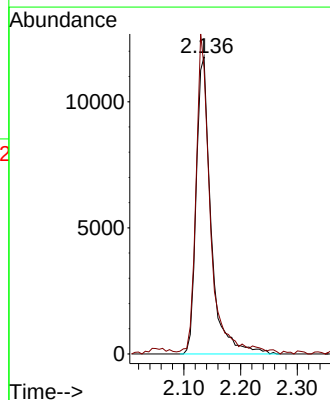
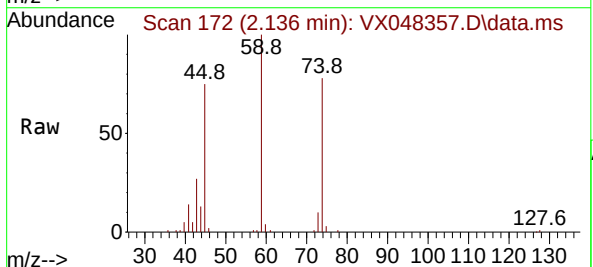
Manual Integrations
APPROVED

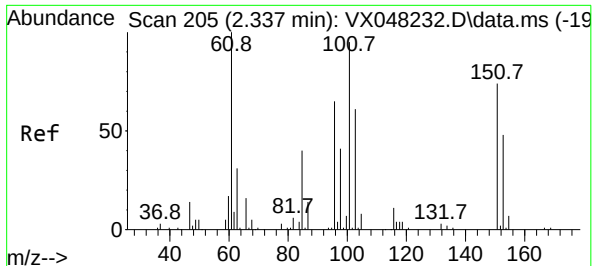
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#8
Diethyl Ether
Concen: 31.260 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Tgt Ion: 74 Resp: 21357
Ion Ratio Lower Upper
74 100
45 99.4 50.0 149.8





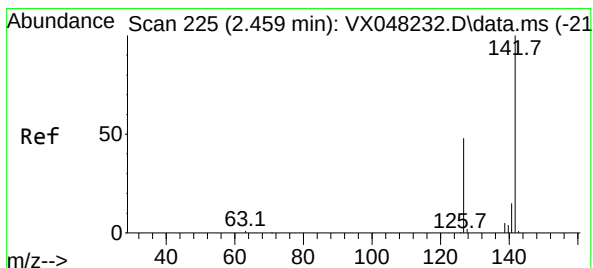
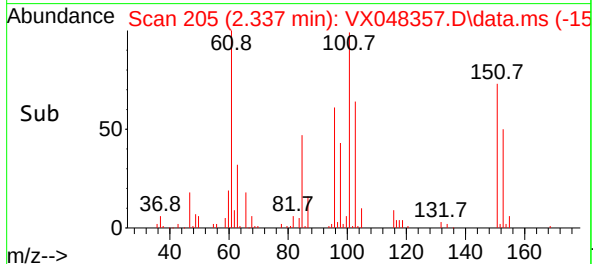
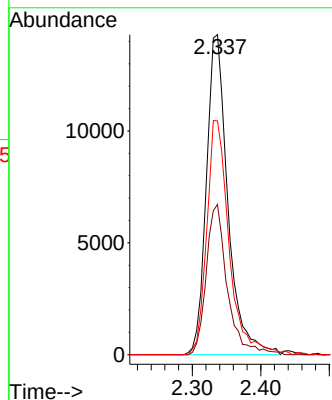
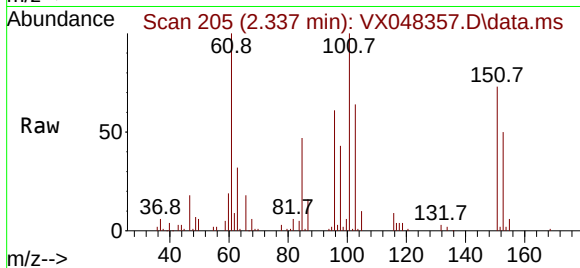
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.315 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01

Tgt Ion:101 Resp: 31235
Ion Ratio Lower Upper
101 100
85 46.0 35.6 53.4
151 76.0 58.0 87.0

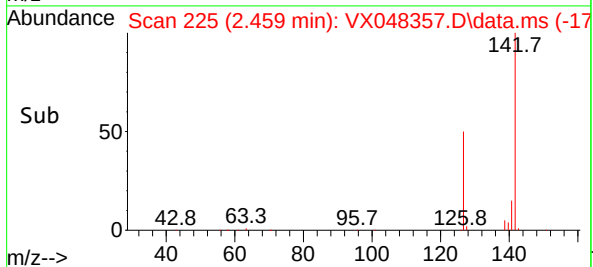
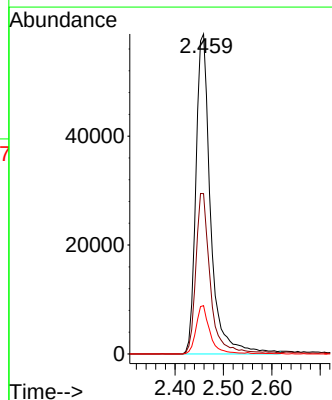
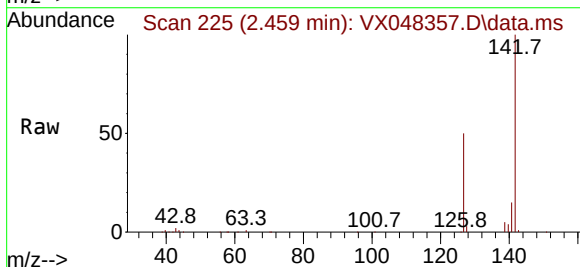
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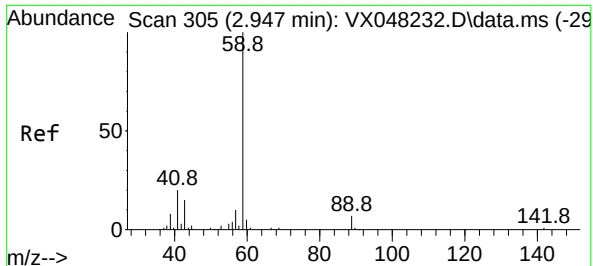
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#10
Methyl Iodide
Concen: 64.214 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Tgt Ion:142 Resp: 124122
Ion Ratio Lower Upper
142 100
127 49.3 38.5 57.7
141 14.2 11.6 17.4





#11

Tert butyl alcohol

Concen: 84.206 ug/l

RT: 2.928 min Scan# 305

Delta R.T. -0.012 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion: 59 Resp: 1670

Ion Ratio Lower Upper

59 100

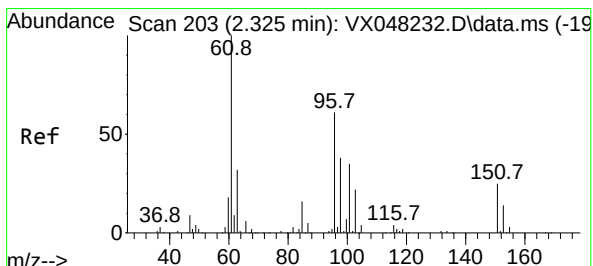
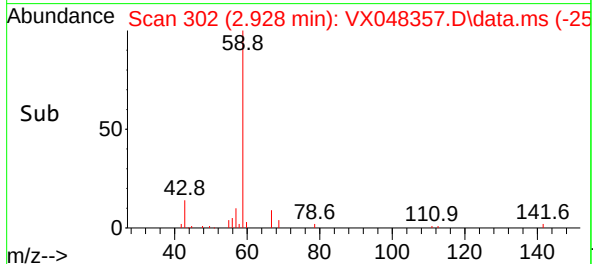
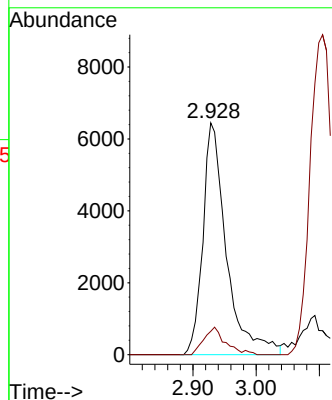
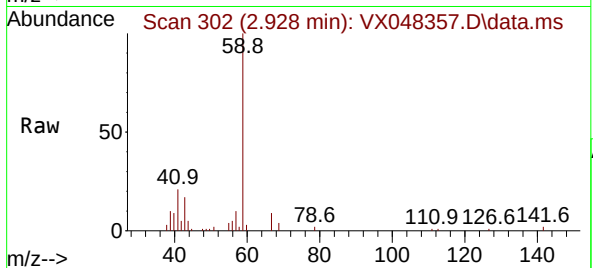
57 10.9 8.2 12.4

Manual Integrations

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Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#12

1,1-Dichloroethene

Concen: 20.581 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

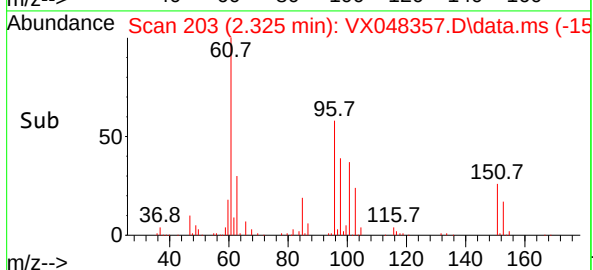
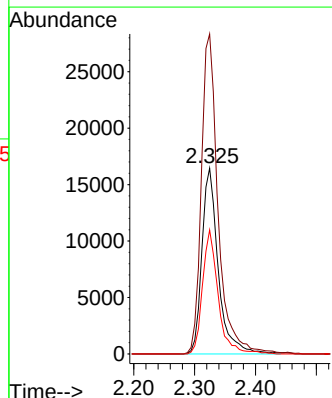
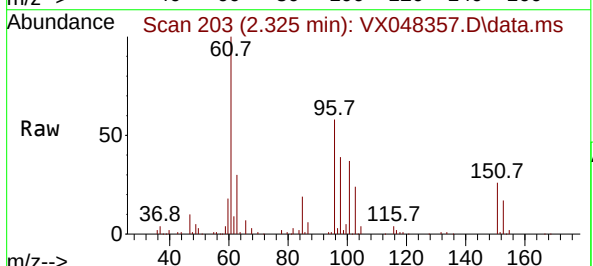
Tgt Ion: 96 Resp: 30786

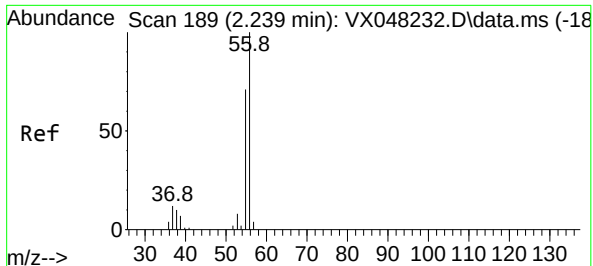
Ion Ratio Lower Upper

96 100

61 172.2 139.0 208.6

98 66.8 52.4 78.6





#13

Acrolein

Concen: 135.116 ug/l

RT: 2.233 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion: 56 Resp: 2733

Ion Ratio Lower Upper

56 100

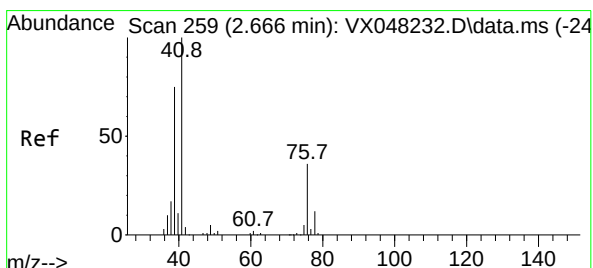
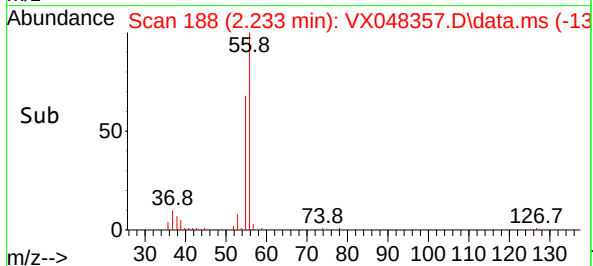
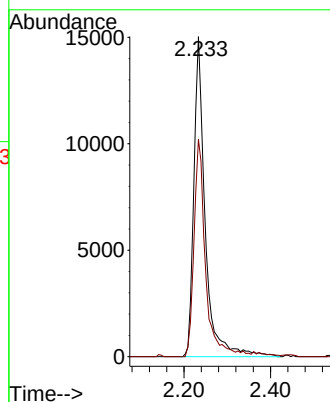
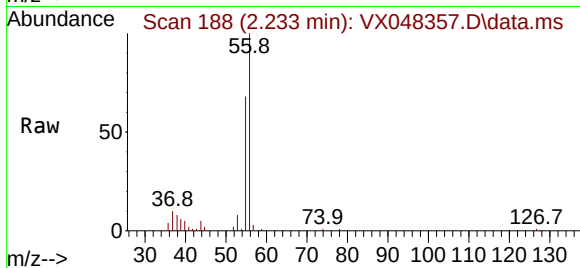
55 69.1 56.1 84.1

Manual Integrations

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Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#14

Allyl chloride

Concen: 22.564 ug/l

RT: 2.666 min Scan# 259

Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

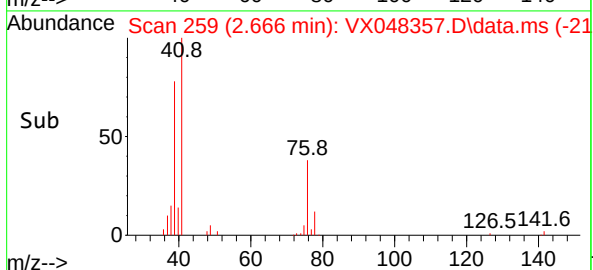
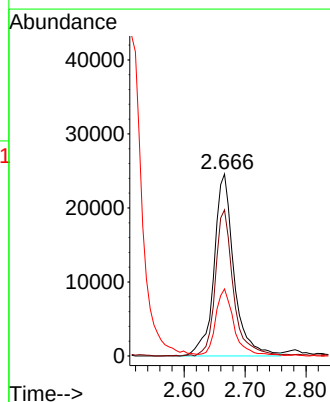
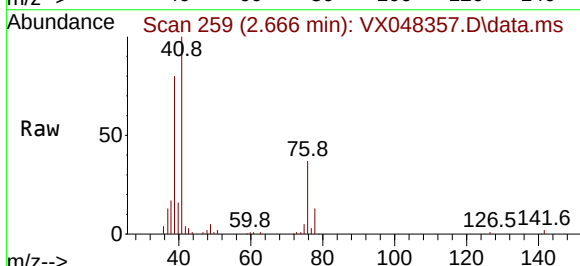
Tgt Ion: 41 Resp: 56039

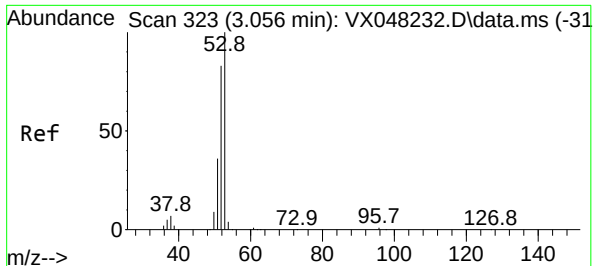
Ion Ratio Lower Upper

41 100

39 73.0 56.0 84.0

76 33.2 27.5 41.3





#15

Acrylonitrile

Concen: 101.218 ug/l

RT: 3.050 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

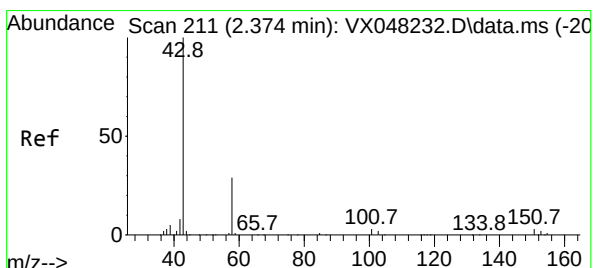
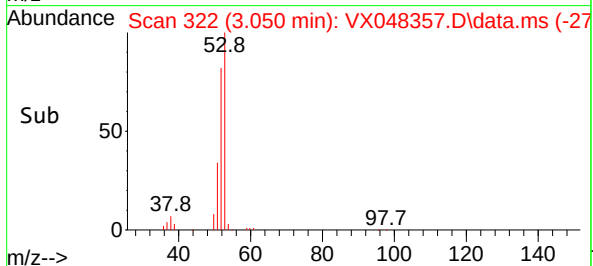
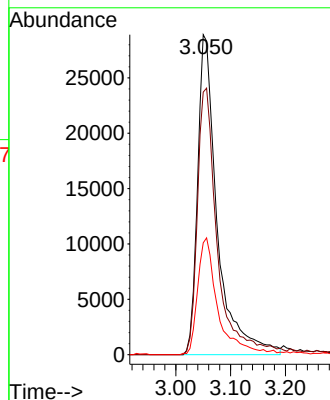
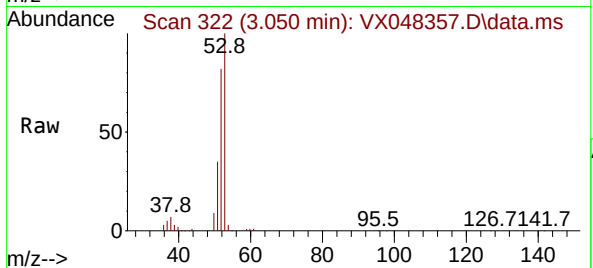
ClientSampleId :

VX1027WBS01

Tgt Ion:	53	Resp:	7239
Ion	Ratio	Lower	Upper
53	100		
52	84.4	66.1	99.1
51	37.9	29.0	43.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#16

Acetone

Concen: 68.973 ug/l

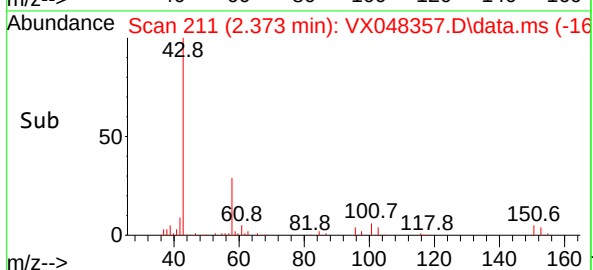
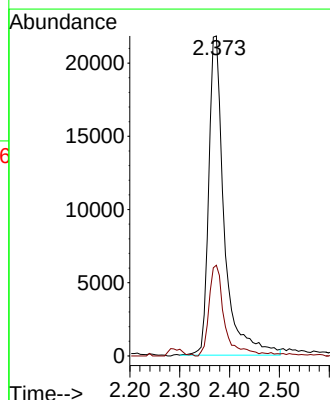
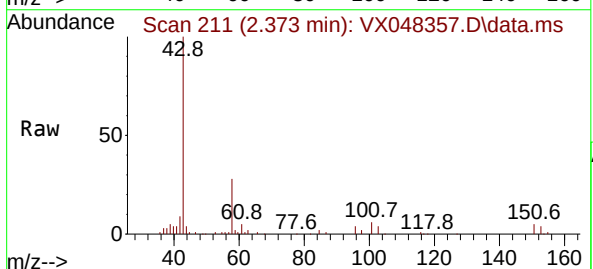
RT: 2.373 min Scan# 211

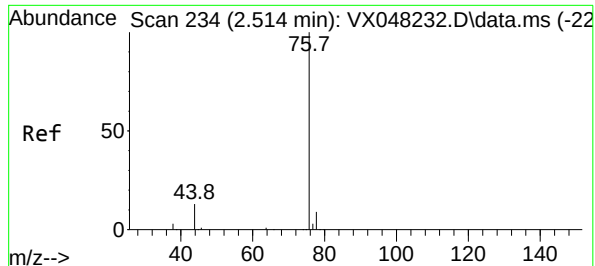
Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Tgt Ion:	43	Resp:	47269
Ion	Ratio	Lower	Upper
43	100		
58	28.3	23.4	35.2





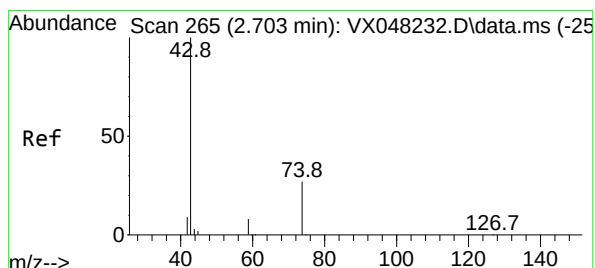
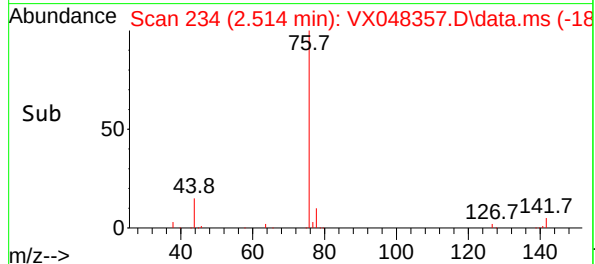
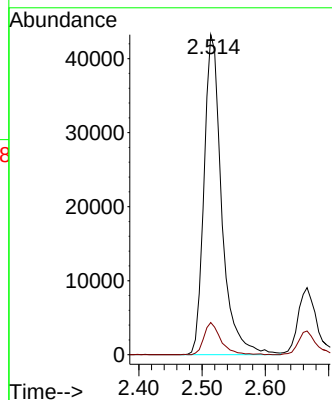
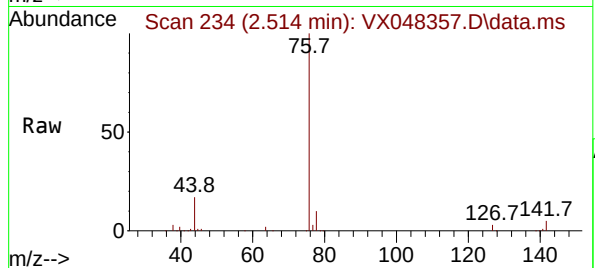
#17
Carbon Disulfide
Concen: 17.852 ug/l
RT: 2.514 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01

Tgt Ion: 76 Resp: 8416
Ion Ratio Lower Upper
76 100
78 10.0 7.1 10.7

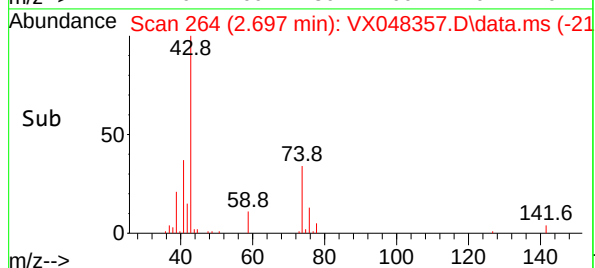
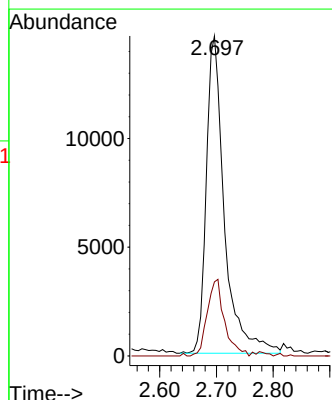
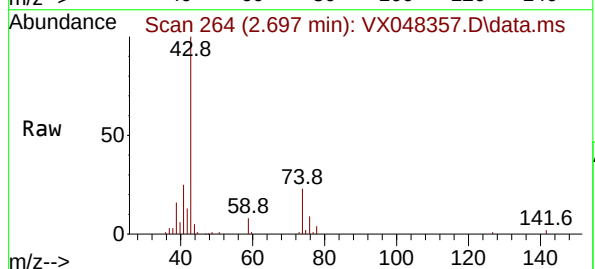
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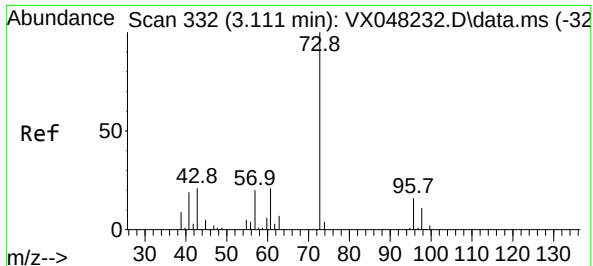
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#18
Methyl Acetate
Concen: 22.598 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Tgt Ion: 43 Resp: 32343
Ion Ratio Lower Upper
43 100
74 23.0 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 22.004 ug/l

RT: 3.105 min Scan# 311

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion: 73 Resp: 112289

Ion Ratio Lower Upper

73 100

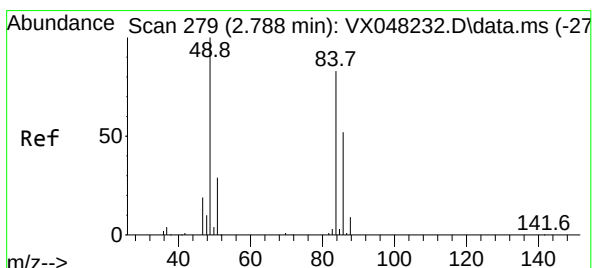
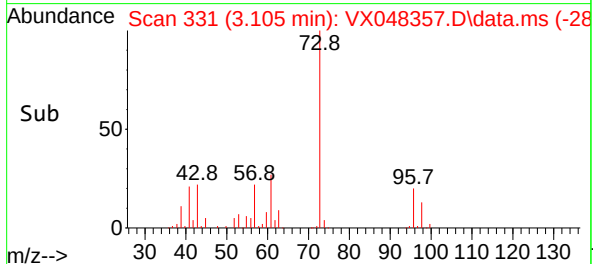
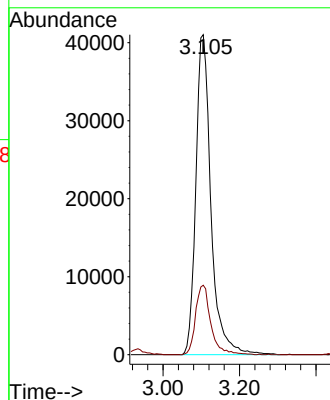
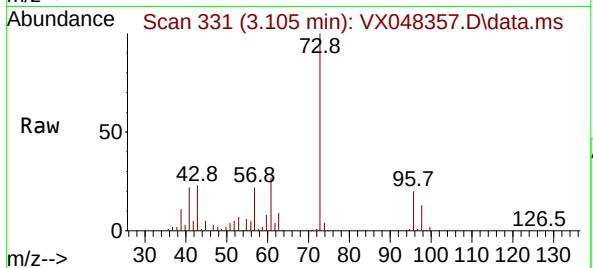
57 21.7 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#20

Methylene Chloride

Concen: 21.533 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Tgt Ion: 84 Resp: 35958

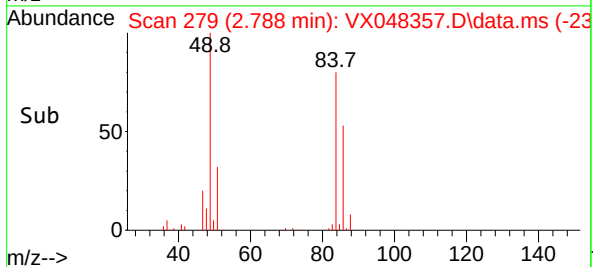
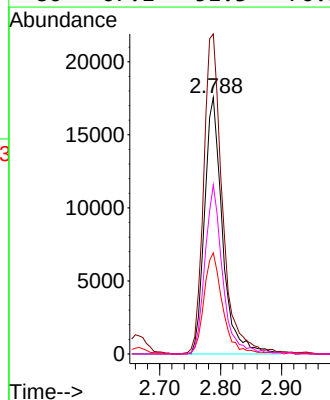
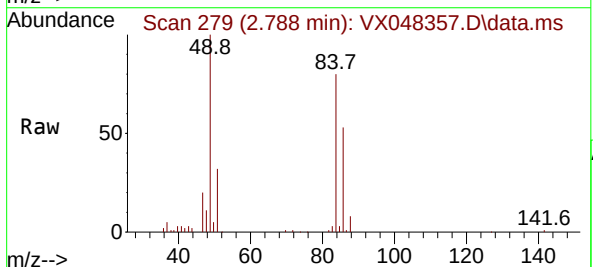
Ion Ratio Lower Upper

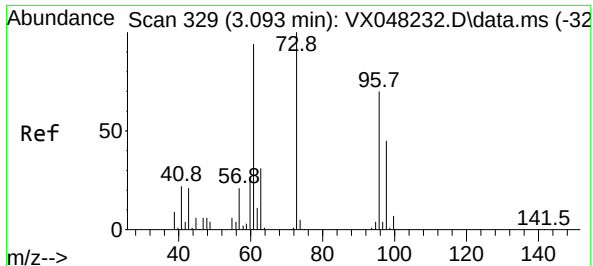
84 100

49 124.8 104.1 156.1

51 39.4 31.3 46.9

86 67.1 51.3 76.9





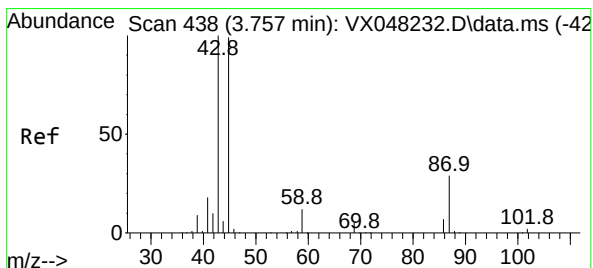
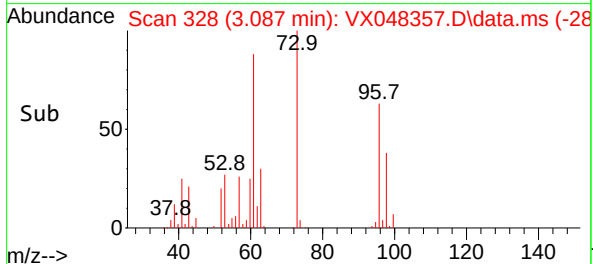
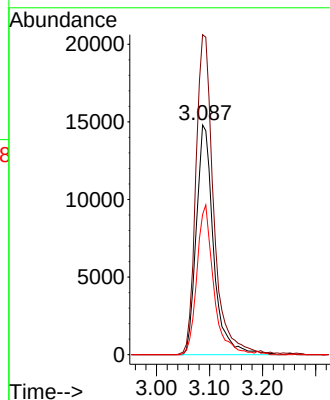
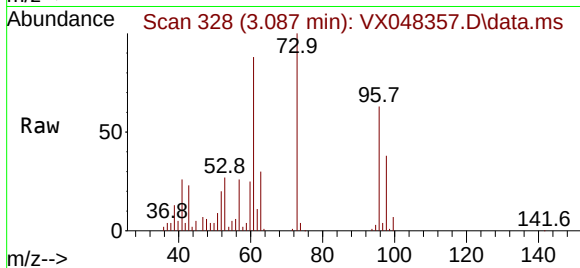
#21
trans-1,2-Dichloroethene
Concen: 20.323 ug/l
RT: 3.087 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01

Tgt Ion: 96 Resp: 3339
Ion Ratio Lower Upper
96 100
61 138.8 111.9 167.9
98 63.0 51.2 76.8

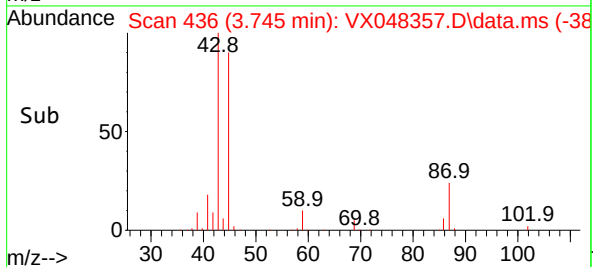
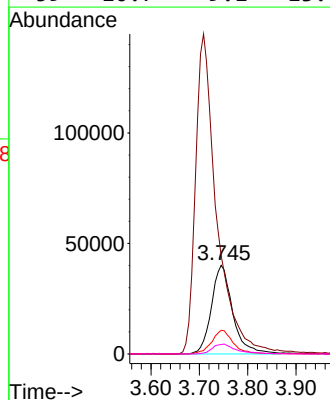
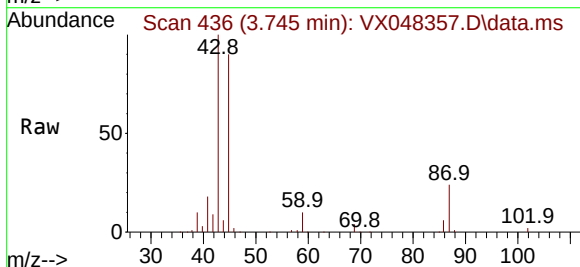
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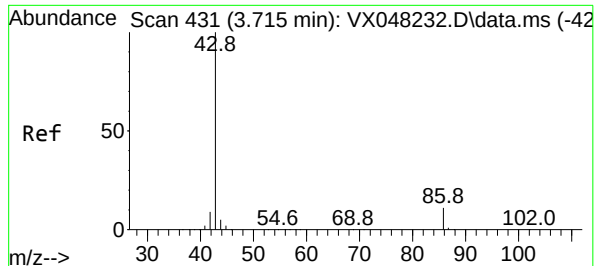
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#22
Diisopropyl ether
Concen: 24.723 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.006 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Tgt Ion: 45 Resp: 122466
Ion Ratio Lower Upper
45 100
43 110.4 89.8 134.8
87 26.7 20.6 31.0
59 10.7 9.1 13.7





#23

Vinyl Acetate

Concen: 112.437 ug/l

RT: 3.709 min Scan# 41

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion: 43 Resp: 444900

Ion Ratio Lower Upper

43

100

86

10.7

7.9

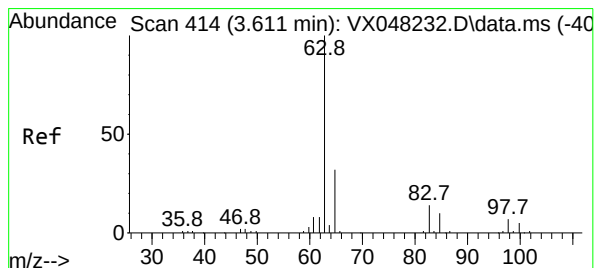
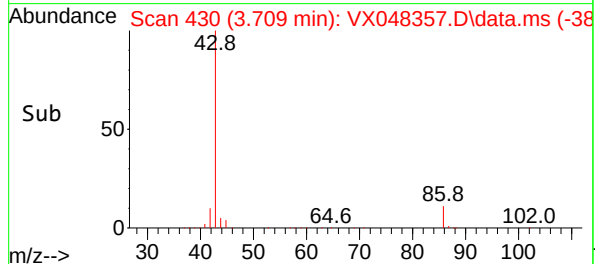
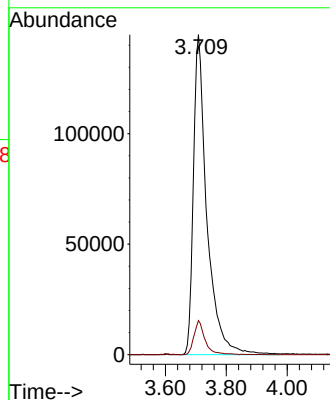
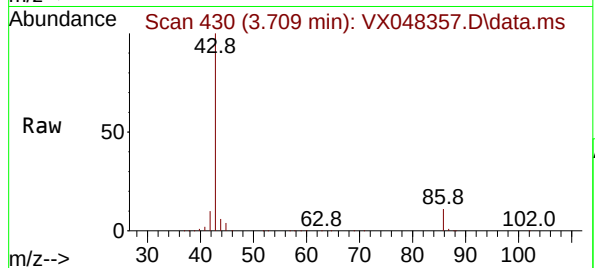
11.9

Manual Integrations

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Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#24

1,1-Dichloroethane

Concen: 22.082 ug/l

RT: 3.599 min Scan# 412

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Tgt Ion: 63 Resp: 66140

Ion Ratio Lower Upper

63

100

98

100

6.8

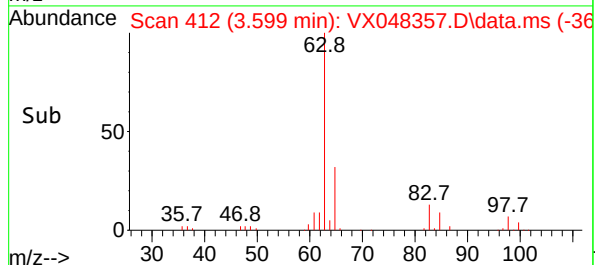
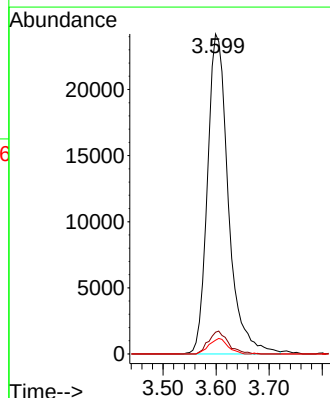
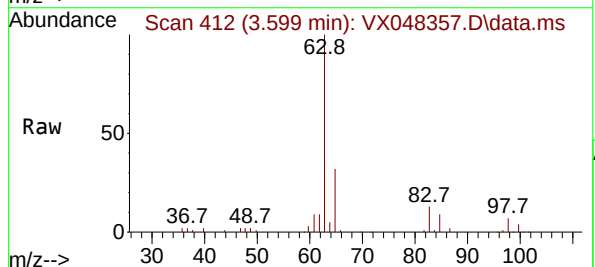
4.6

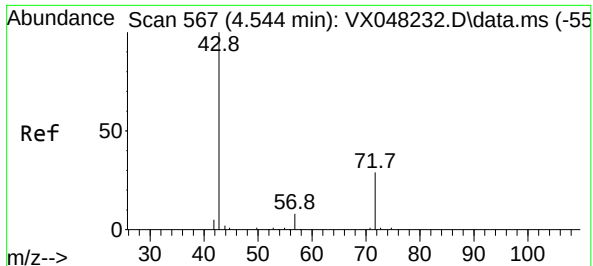
3.5

2.1

10.6

6.3





#25

2-Butanone

Concen: 87.924 ug/l

RT: 4.532 min Scan# 50

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion: 43 Resp: 76270

Ion Ratio Lower Upper

43 100

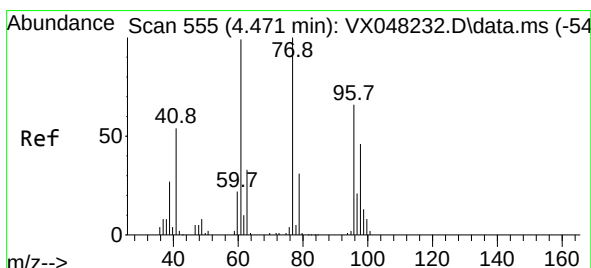
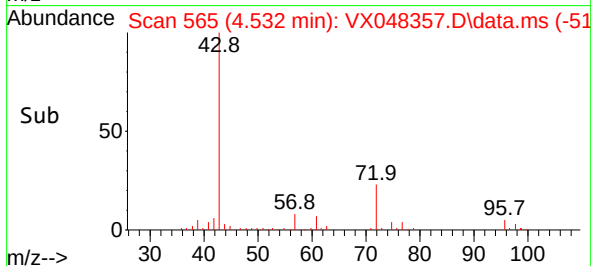
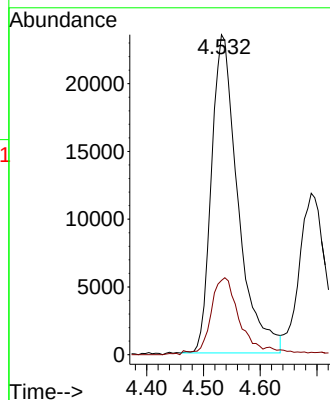
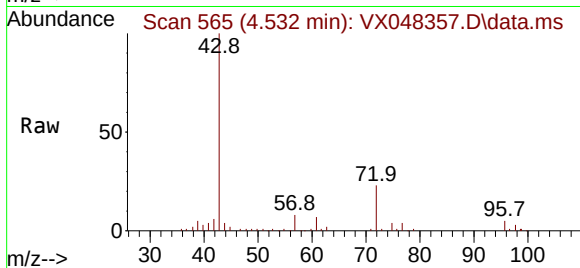
72 22.6 19.9 29.9

Manual Integrations

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Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#26

2,2-Dichloropropane

Concen: 21.762 ug/l

RT: 4.458 min Scan# 553

Delta R.T. -0.006 min

Lab File: VX048357.D

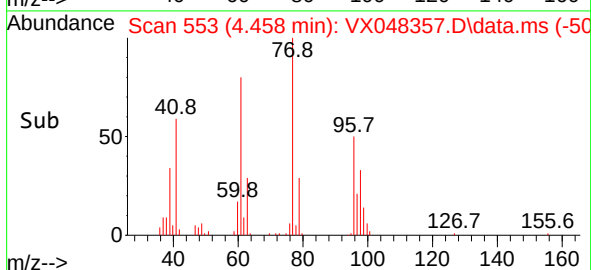
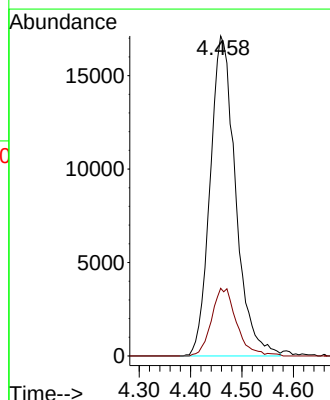
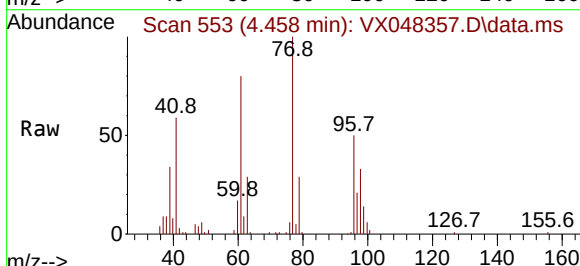
Acq: 27 Oct 2025 10:04

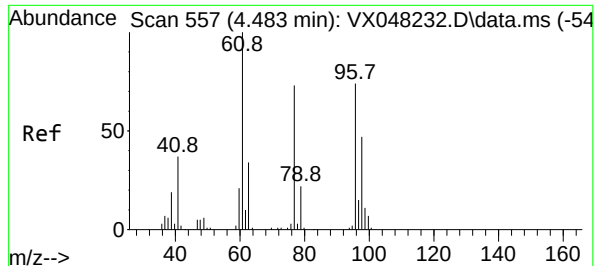
Tgt Ion: 77 Resp: 58835

Ion Ratio Lower Upper

77 100

97 20.9 11.1 33.3





#27

cis-1,2-Dichloroethene

Concen: 21.353 ug/l

RT: 4.477 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion: 96 Resp: 4094

Ion Ratio Lower Upper

96 100

61 150.2 0.0 294.2

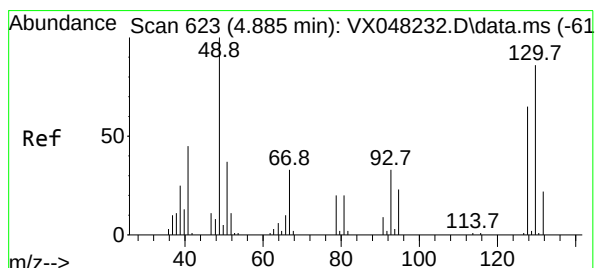
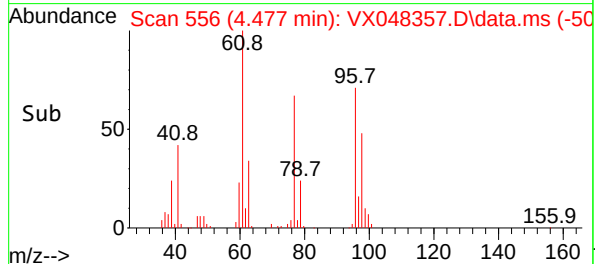
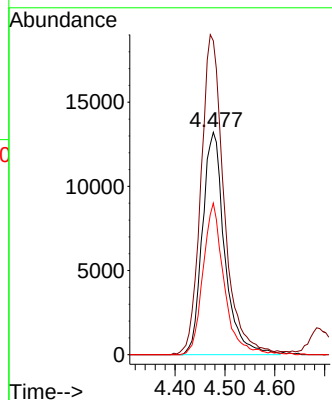
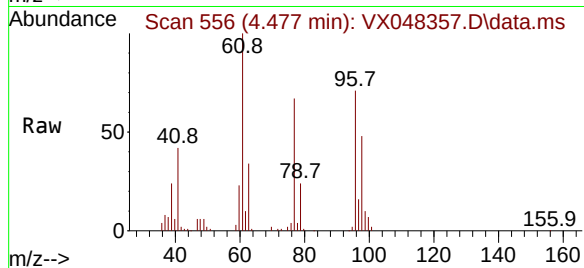
98 65.0 0.0 128.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#28

Bromochloromethane

Concen: 21.731 ug/l

RT: 4.879 min Scan# 622

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

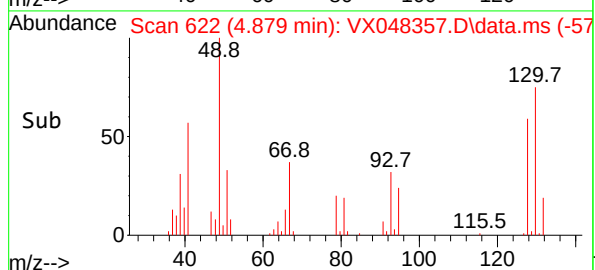
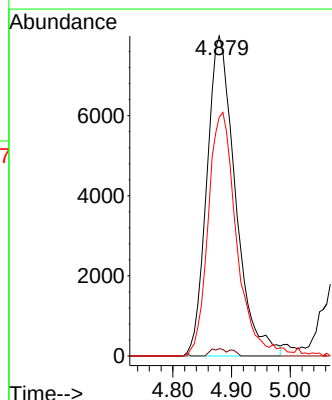
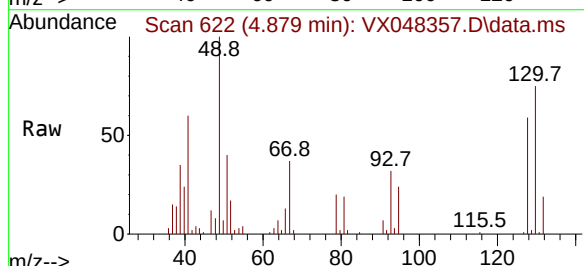
Tgt Ion: 49 Resp: 26988

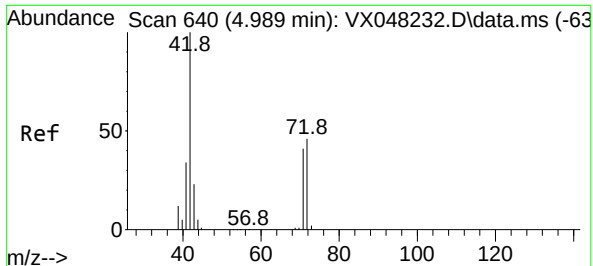
Ion Ratio Lower Upper

49 100

129 1.1 0.0 4.4

130 75.6 59.3 88.9





#29

Tetrahydrofuran

Concen: 98.168 ug/l

RT: 4.977 min Scan# 61

Delta R.T. -0.012 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

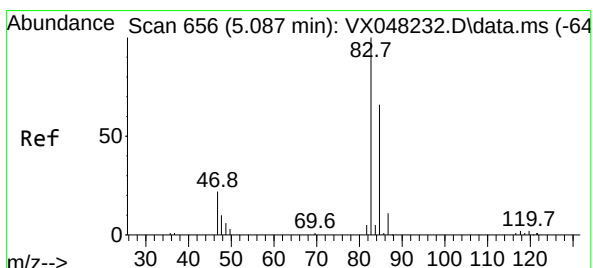
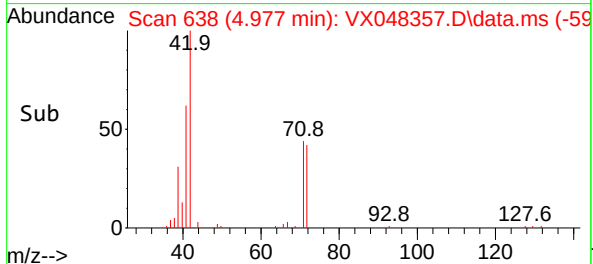
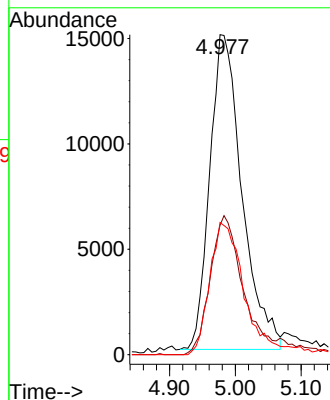
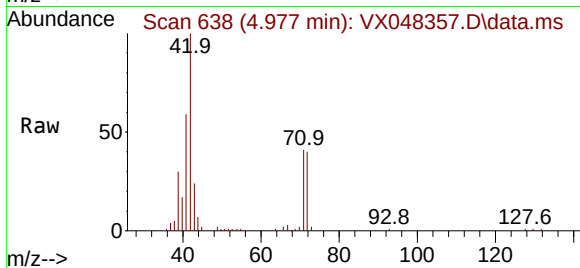
VX1027WBS01

Tgt Ion:	42	Resp:	51000
Ion	Ratio	Lower	Upper
42	100		
72	44.7	35.3	52.9
71	45.4	32.2	48.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#30

Chloroform

Concen: 21.924 ug/l

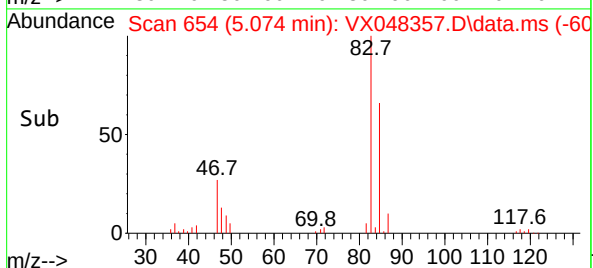
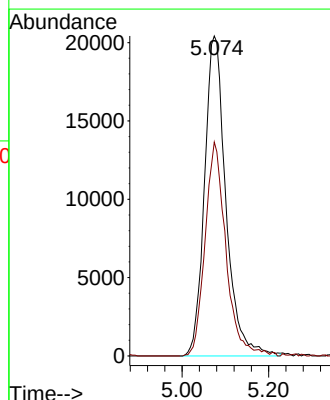
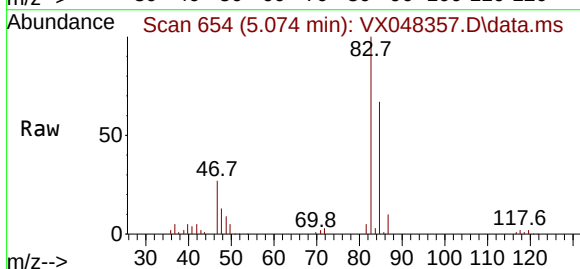
RT: 5.074 min Scan# 654

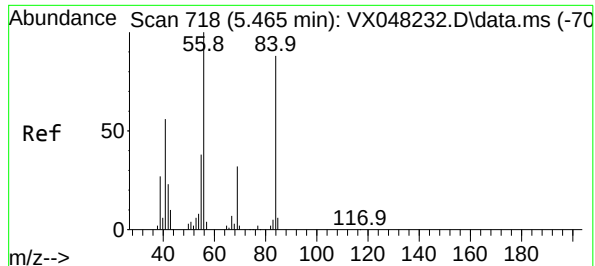
Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Tgt Ion:	83	Resp:	70158
Ion	Ratio	Lower	Upper
83	100		
85	66.8	50.1	75.1





#31

Cyclohexane

Concen: 21.583 ug/l

RT: 5.452 min Scan# 716

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion: 56 Resp: 5352

Ion Ratio Lower Upper

56 100

69 31.0 23.0 34.6

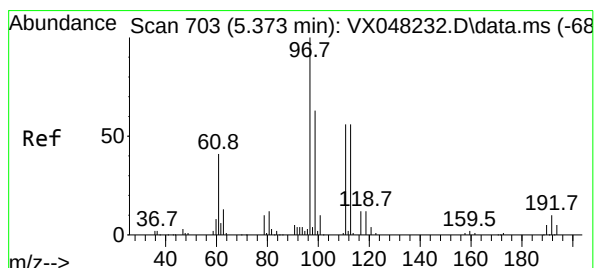
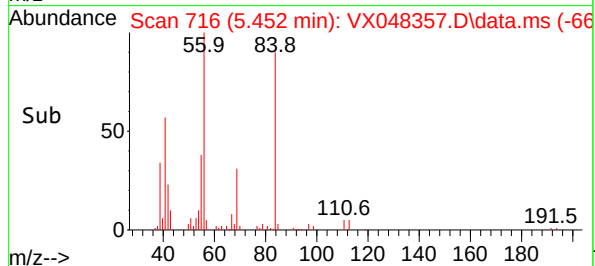
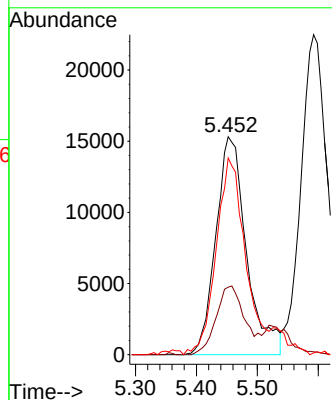
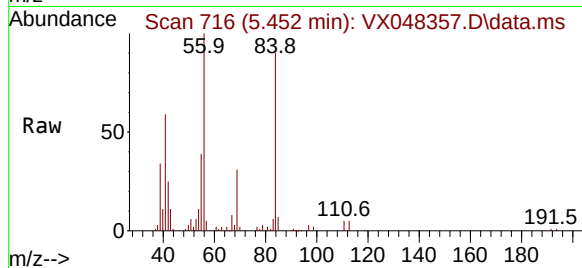
84 88.4 64.6 97.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#32

1,1,1-Trichloroethane

Concen: 20.865 ug/l

RT: 5.367 min Scan# 702

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

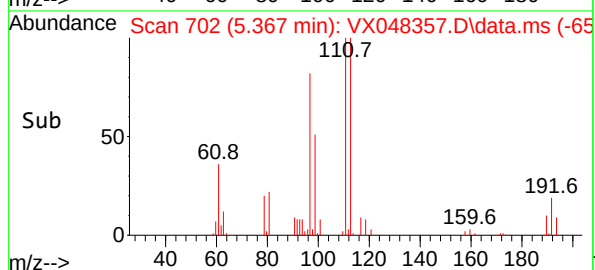
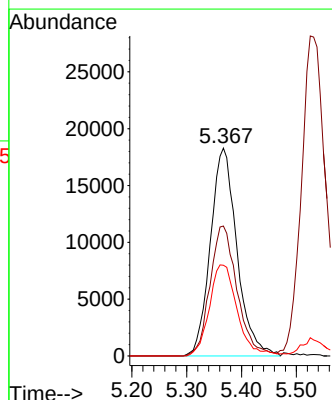
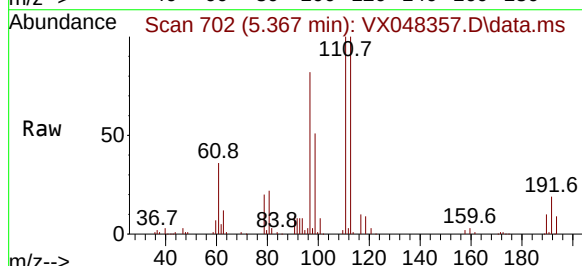
Tgt Ion: 97 Resp: 61535

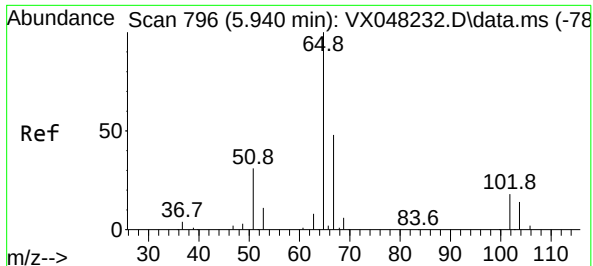
Ion Ratio Lower Upper

97 100

99 63.8 51.7 77.5

61 45.8 34.8 52.2





#33

1,2-Dichloroethane-d4

Concen: 59.308 ug/l

RT: 5.934 min Scan# 796

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion: 65 Resp: 118480

Ion Ratio Lower Upper

65 100

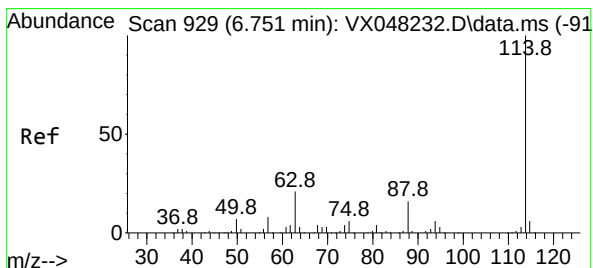
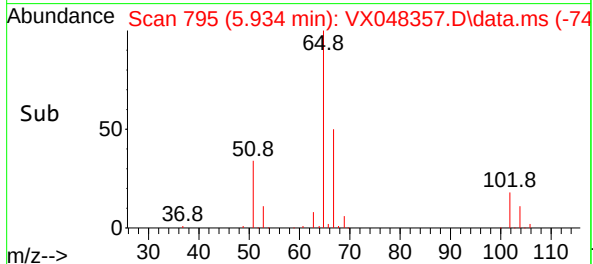
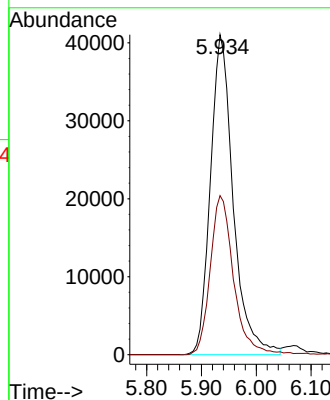
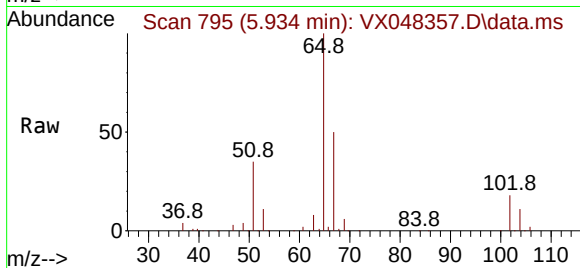
67 50.9 0.0 105.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.738 min Scan# 927

Delta R.T. -0.007 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

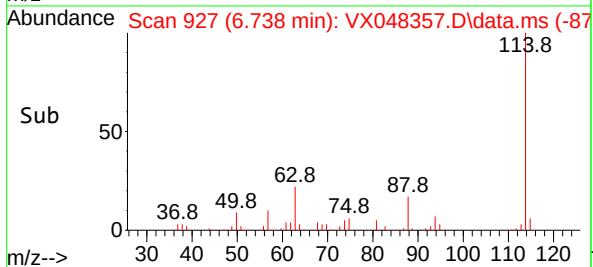
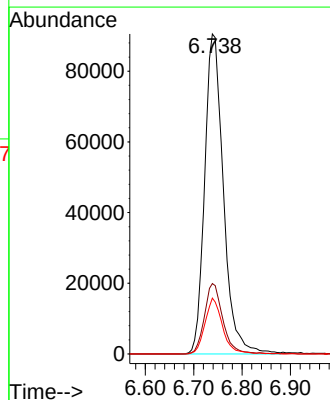
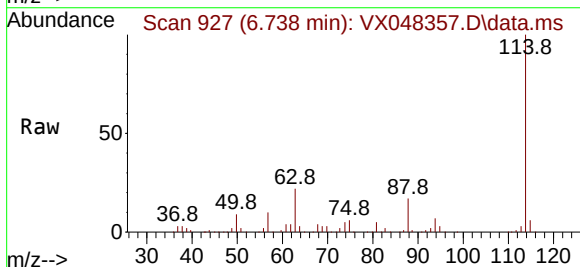
Tgt Ion:114 Resp: 244417

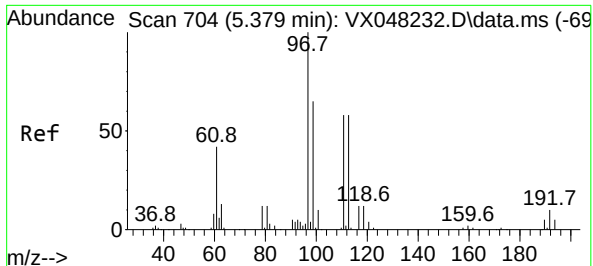
Ion Ratio Lower Upper

114 100

63 22.0 0.0 43.2

88 17.5 0.0 33.6





#35

Dibromofluoromethane

Concen: 43.590 ug/l

RT: 5.367 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion:113 Resp: 7273

Ion Ratio Lower Upper

113 100

111 103.0 82.2 123.4

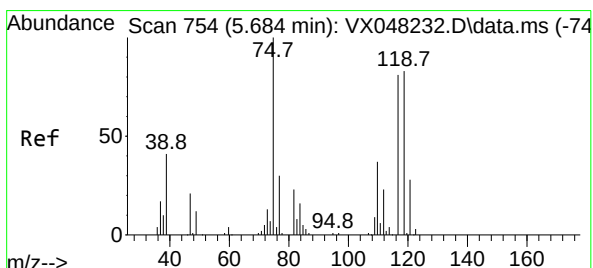
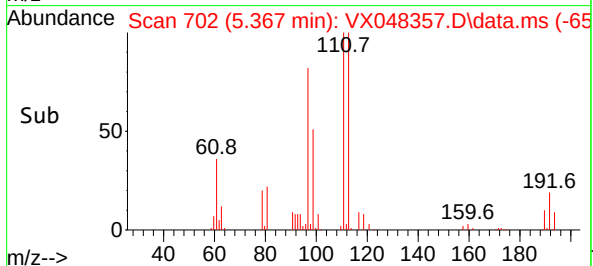
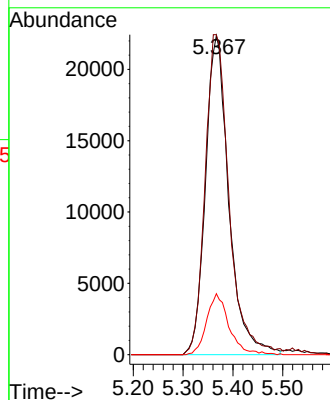
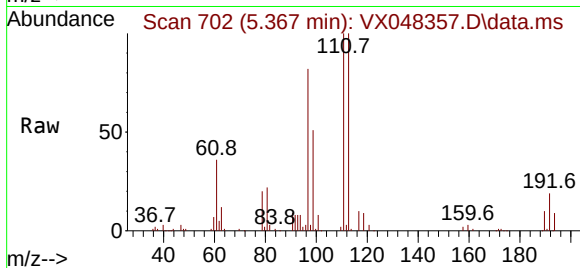
192 18.4 15.1 22.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#36

1,1-Dichloropropene

Concen: 19.160 ug/l

RT: 5.672 min Scan# 752

Delta R.T. -0.012 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

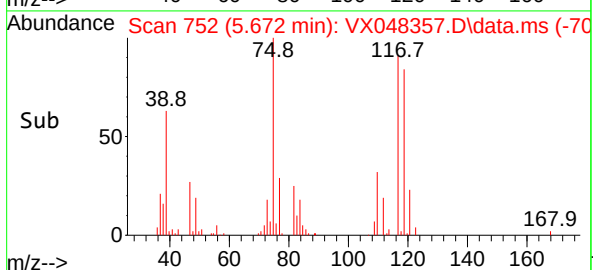
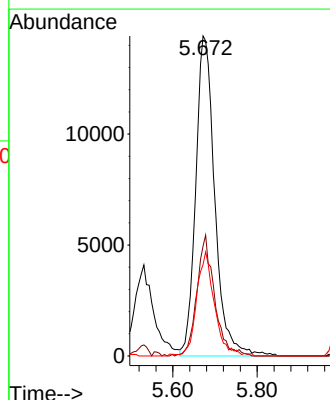
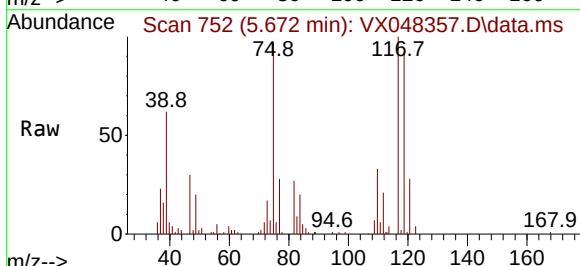
Tgt Ion: 75 Resp: 45441

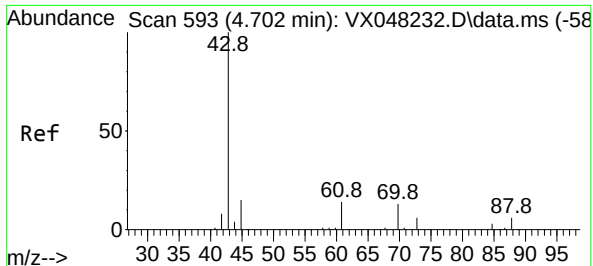
Ion Ratio Lower Upper

75 100

110 34.9 17.7 53.1

77 28.9 24.3 36.5





#37

Ethyl Acetate

Concen: 20.938 ug/l

RT: 4.690 min Scan# 591

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion: 43 Resp: 41160

Ion Ratio Lower Upper

43 100

61 11.2 10.6 15.8

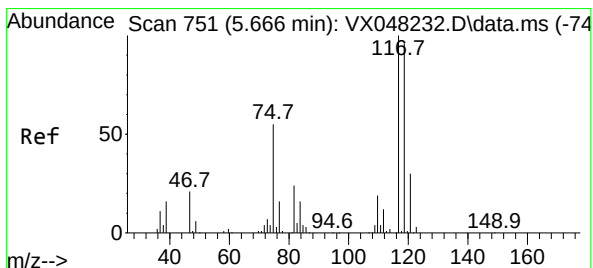
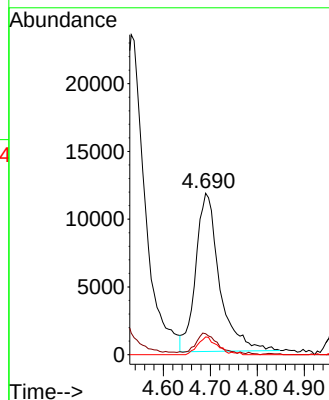
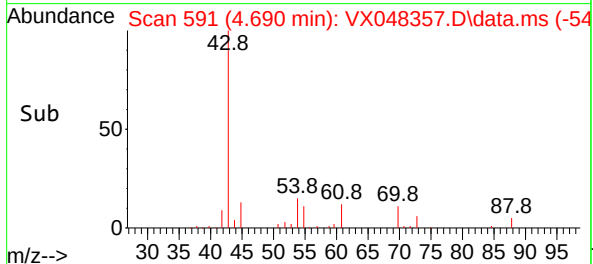
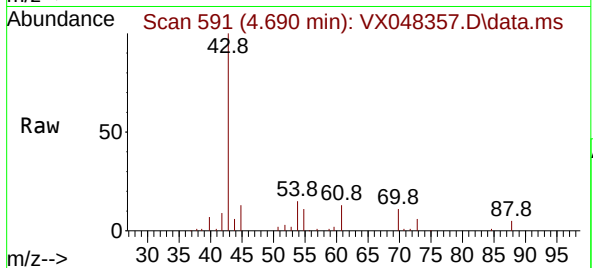
70 9.4 7.8 11.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#38

Carbon Tetrachloride

Concen: 18.167 ug/l

RT: 5.659 min Scan# 750

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

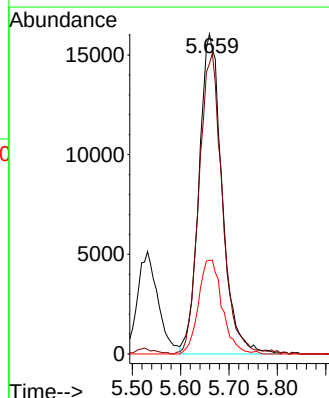
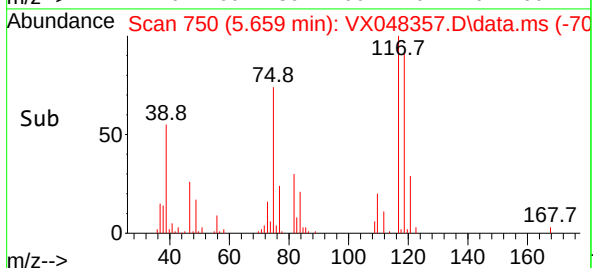
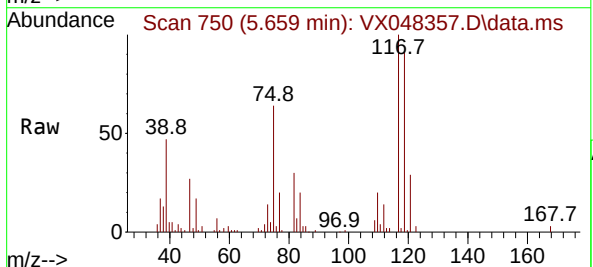
Tgt Ion:117 Resp: 53157

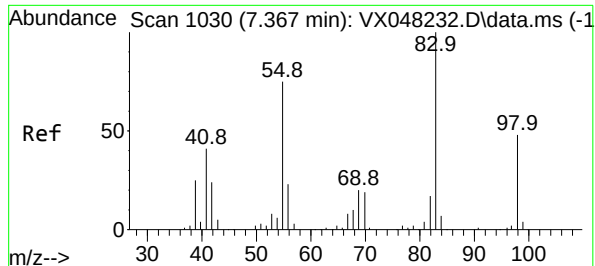
Ion Ratio Lower Upper

117 100

119 90.3 77.2 115.8

121 29.3 24.8 37.2





#39

Methylcyclohexane

Concen: 18.982 ug/l

RT: 7.360 min Scan# 1030

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion: 83 Resp: 5316

Ion Ratio Lower Upper

83 100

55 81.4 66.2 99.2

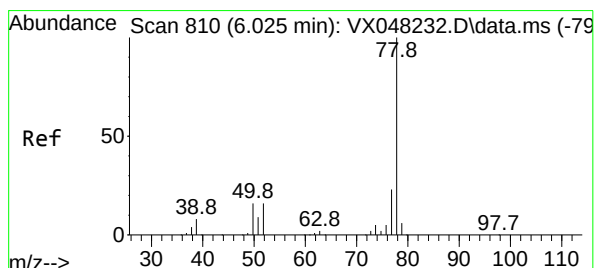
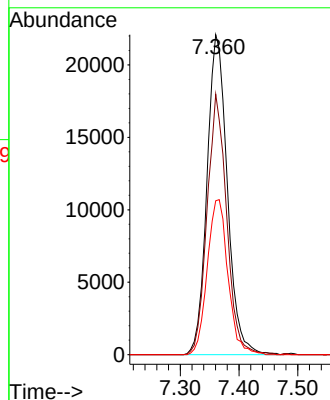
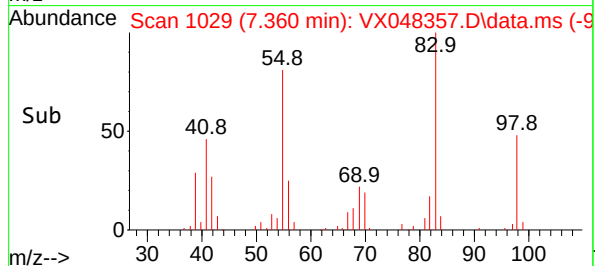
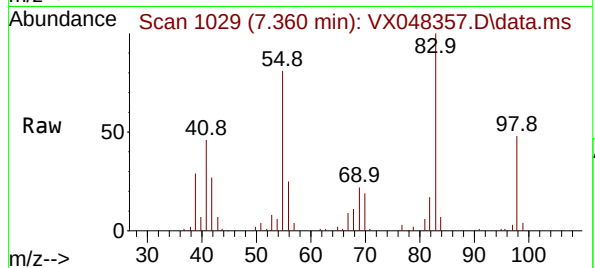
98 48.1 38.9 58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#40

Benzene

Concen: 20.193 ug/l

RT: 6.019 min Scan# 809

Delta R.T. -0.006 min

Lab File: VX048357.D

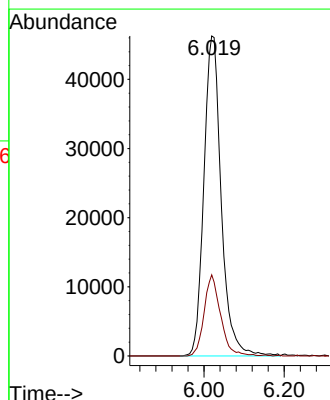
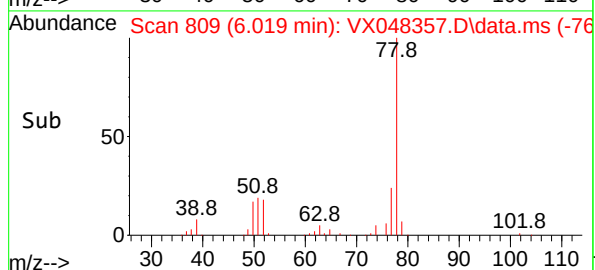
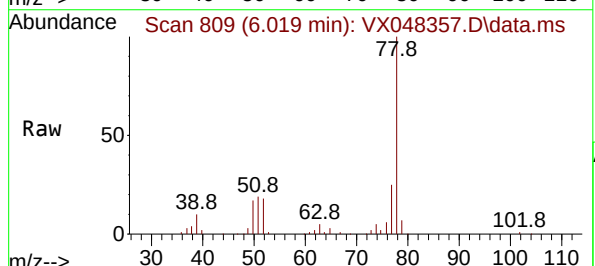
Acq: 27 Oct 2025 10:04

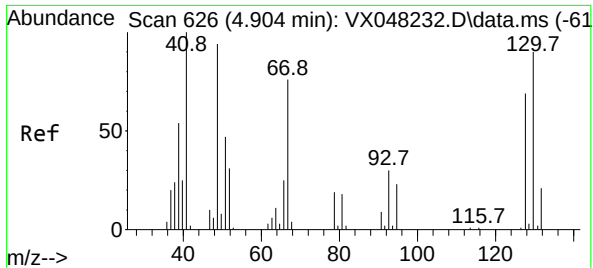
Tgt Ion: 78 Resp: 139040

Ion Ratio Lower Upper

78 100

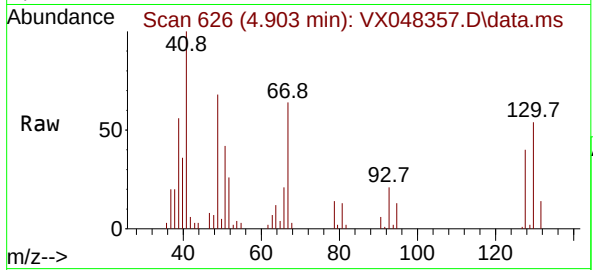
77 25.4 19.3 28.9





#41
Methacrylonitrile
Concen: 21.137 ug/l
RT: 4.903 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

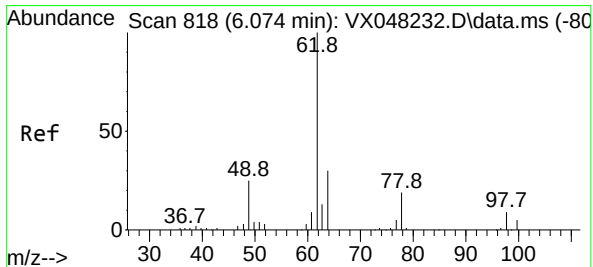
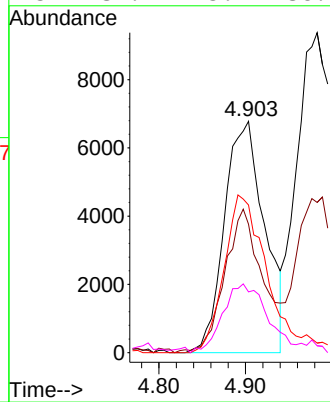
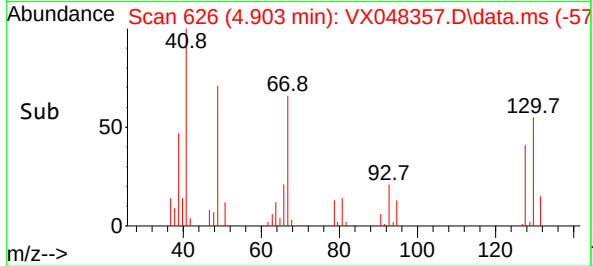
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01



Tgt Ion: 41 Resp: 2182
Ion Ratio Lower Upper
41 100
39 58.3 44.0 66.0
67 75.8 58.7 88.1
52 32.9 25.9 38.9

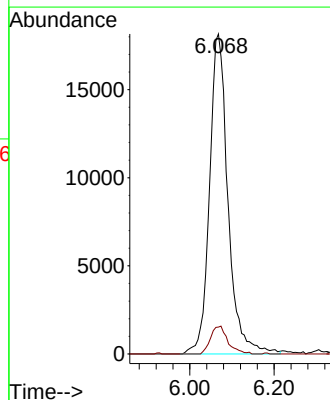
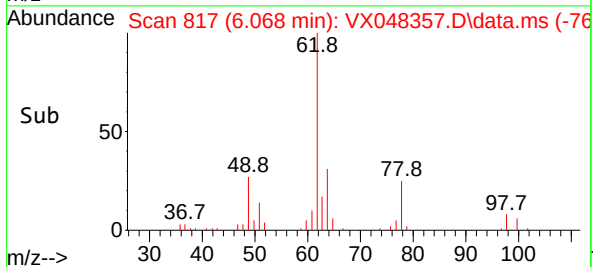
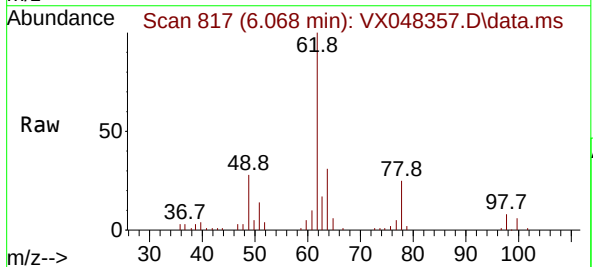
Manual Integrations
APPROVED

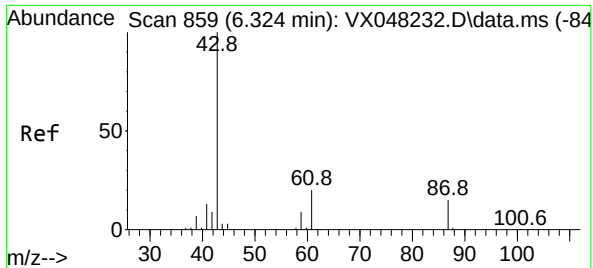
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#42
1,2-Dichloroethane
Concen: 21.734 ug/l
RT: 6.068 min Scan# 817
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Tgt Ion: 62 Resp: 55222
Ion Ratio Lower Upper
62 100
98 8.2 0.0 17.2





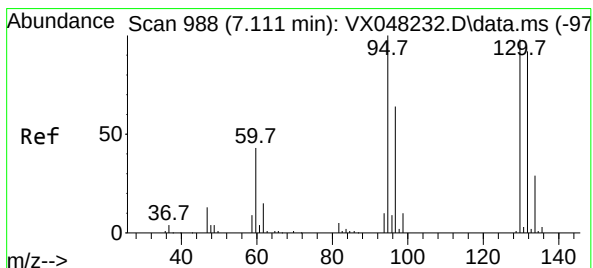
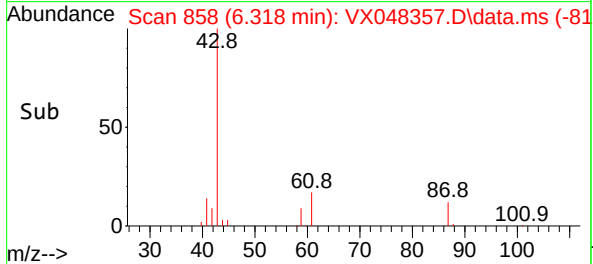
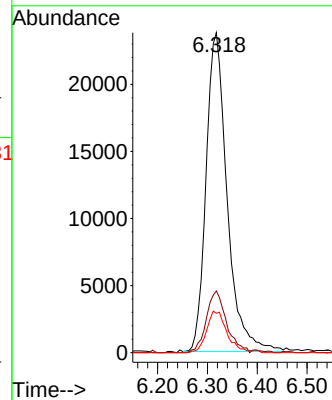
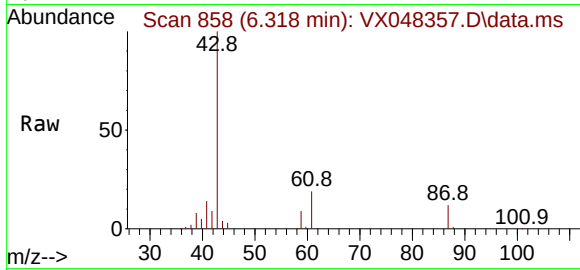
#43
Isopropyl Acetate
Concen: 21.579 ug/l
RT: 6.318 min Scan# 858
Delta R.T. -0.006 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01

Tgt Ion: 43 Resp: 6968
Ion Ratio Lower Upper
43 100
61 18.6 14.9 22.3
87 12.6 9.4 14.2

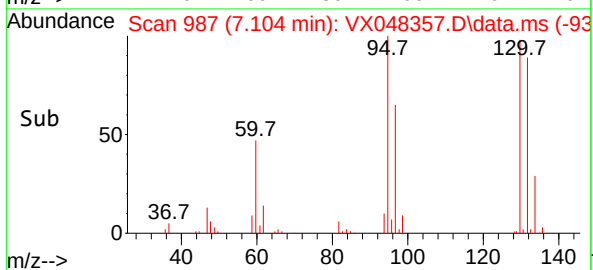
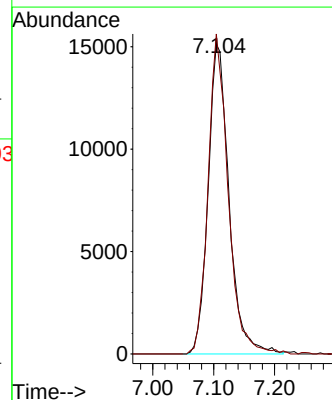
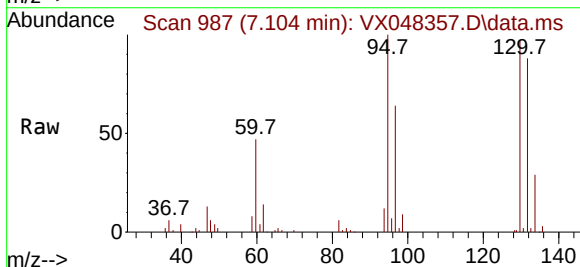
Manual Integrations
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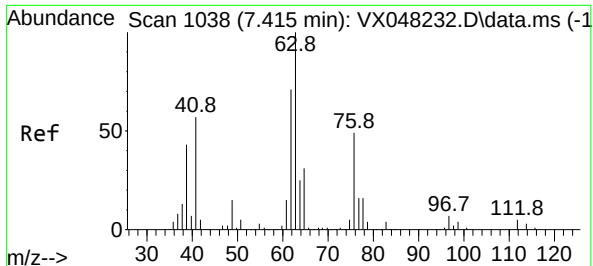
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#44
Trichloroethene
Concen: 19.905 ug/l
RT: 7.104 min Scan# 987
Delta R.T. -0.006 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Tgt Ion:130 Resp: 36190
Ion Ratio Lower Upper
130 100
95 103.2 0.0 200.6





#45

1,2-Dichloropropane

Concen: 21.452 ug/l

RT: 7.415 min Scan# 1038

Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion: 63 Resp: 35120

Ion Ratio Lower Upper

63 100

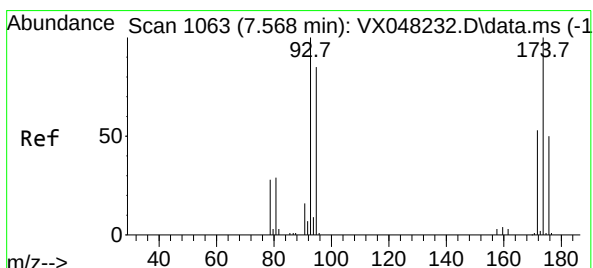
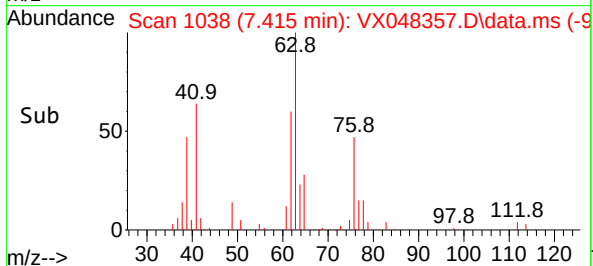
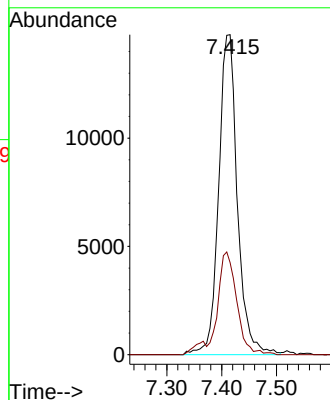
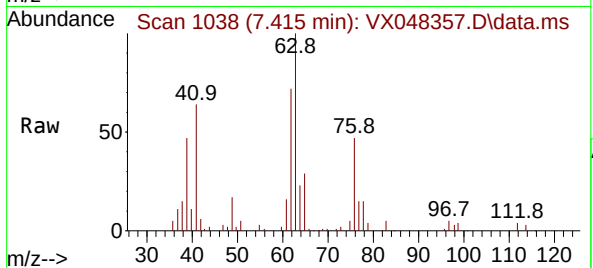
65 28.8 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#46

Dibromomethane

Concen: 20.325 ug/l

RT: 7.561 min Scan# 1062

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

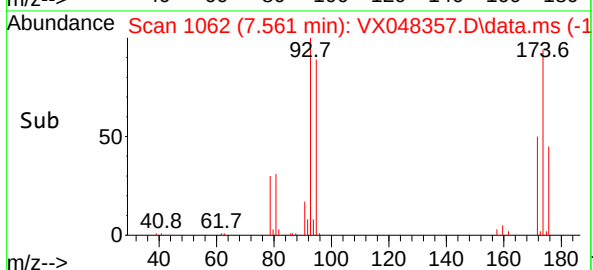
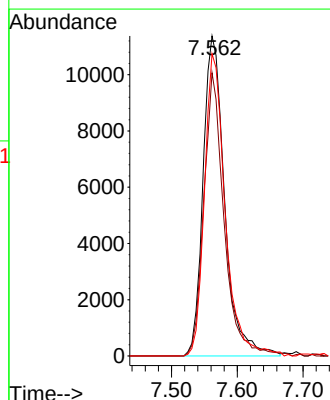
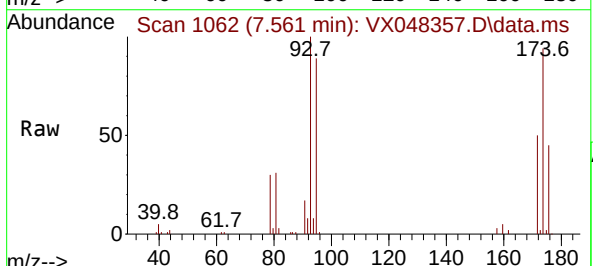
Tgt Ion: 93 Resp: 25923

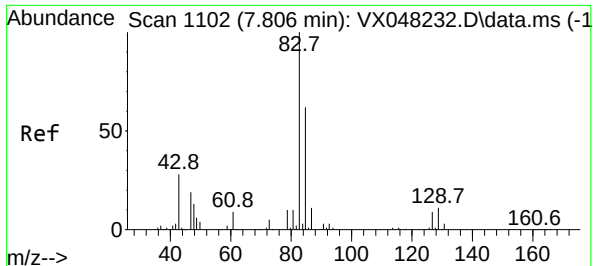
Ion Ratio Lower Upper

93 100

95 83.2 65.9 98.9

174 91.1 71.7 107.5





#47

Bromodichloromethane

Concen: 20.206 ug/l

RT: 7.799 min Scan# 1102

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

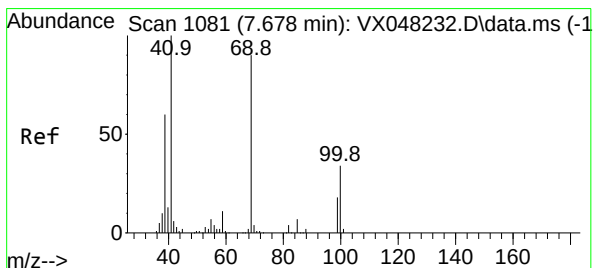
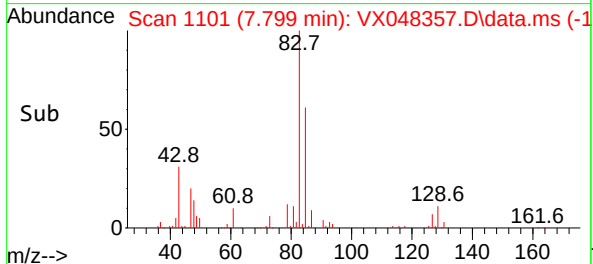
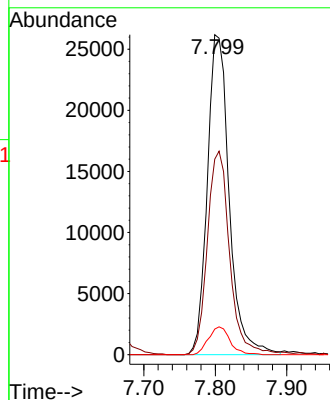
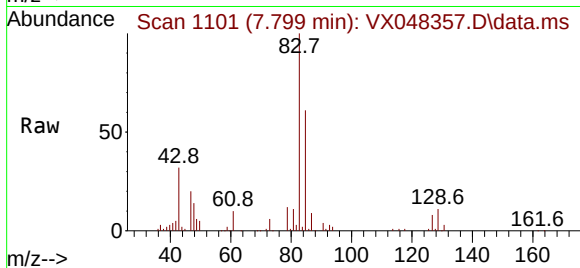
Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion:	83	Resp:	5564
Ion	Ratio	Lower	Upper
83	100		
85	61.1	52.2	78.4
127	8.0	7.3	10.9

Manual Integrations
APPROVEDReviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025

#48

Methyl methacrylate

Concen: 21.366 ug/l

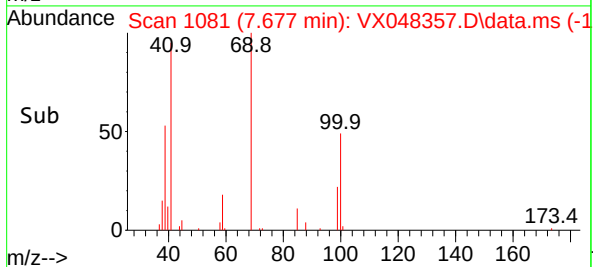
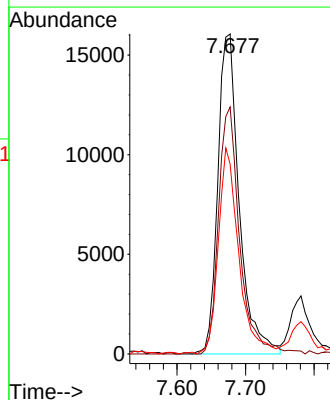
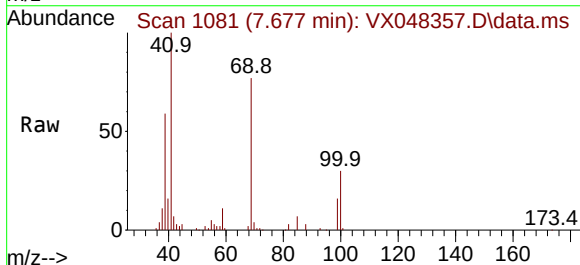
RT: 7.677 min Scan# 1081

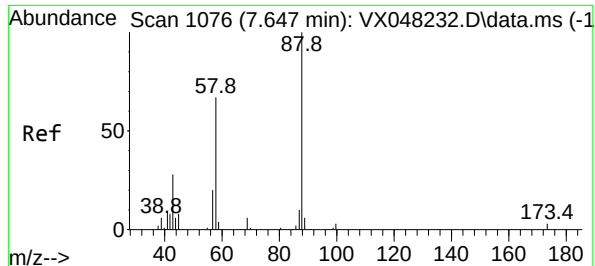
Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Tgt Ion:	41	Resp:	34813
Ion	Ratio	Lower	Upper
41	100		
69	76.3	63.4	95.0
39	61.6	47.1	70.7





#49

1,4-Dioxane

Concen: 350.450 ug/l

RT: 7.641 min Scan# 1076

Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

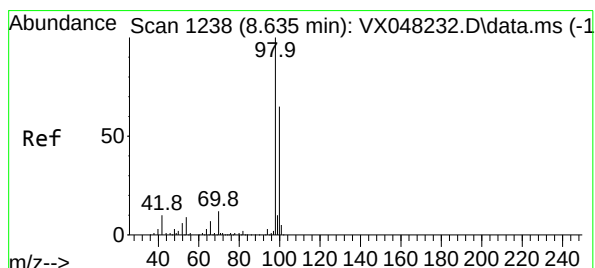
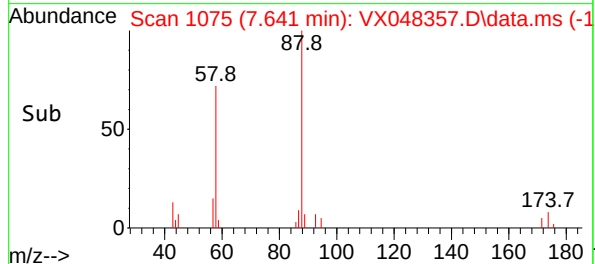
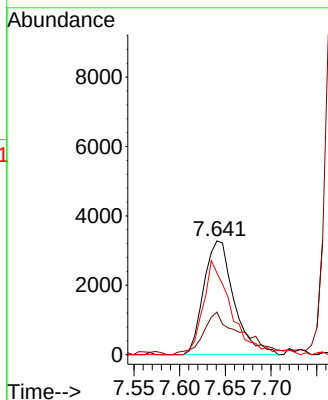
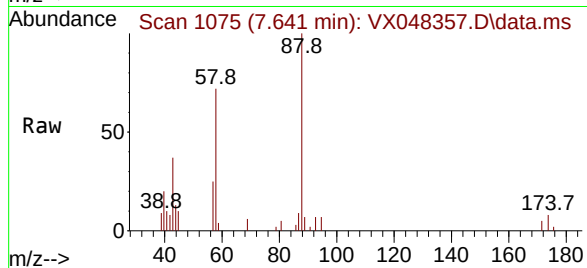
Tgt Ion:	88	Resp:	754
Ion	Ratio	Lower	Upper
88	100		
43	46.9	35.0	52.4
58	77.3	61.9	92.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#50

Toluene-d8

Concen: 51.377 ug/l

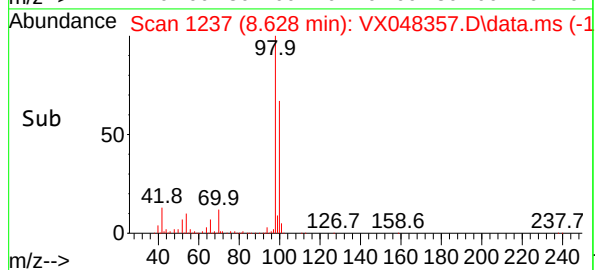
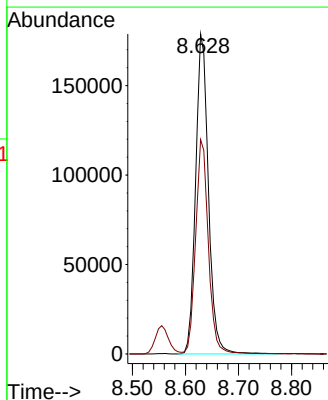
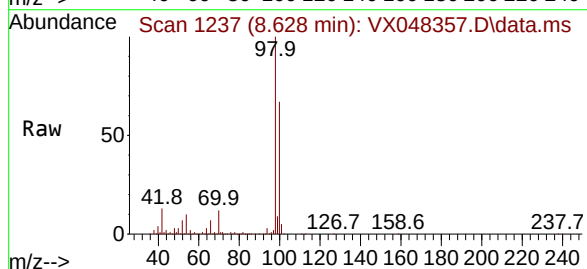
RT: 8.628 min Scan# 1237

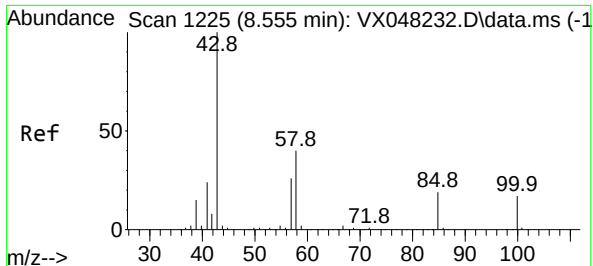
Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

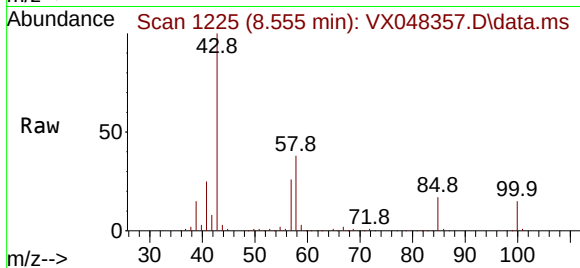
Tgt Ion:	98	Resp:	300486
Ion	Ratio	Lower	Upper
98	100		
100	66.1	53.0	79.4





#51
4-Methyl-2-Pentanone
Concen: 106.262 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

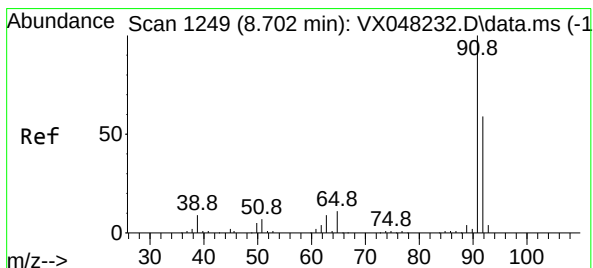
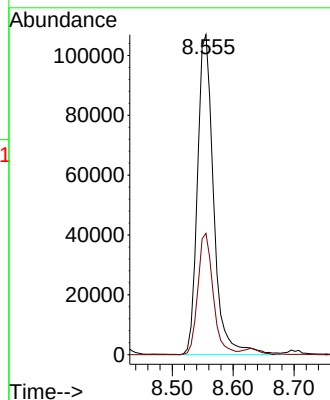
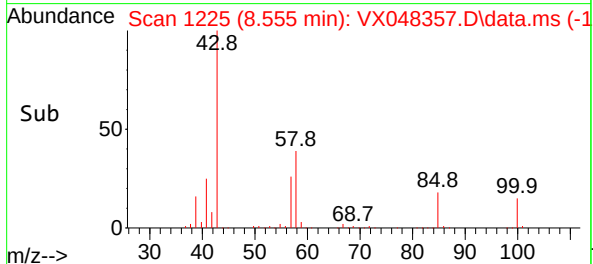
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01



Tgt Ion: 43 Resp: 19783
Ion Ratio Lower Upper
43 100
58 35.7 29.5 44.3

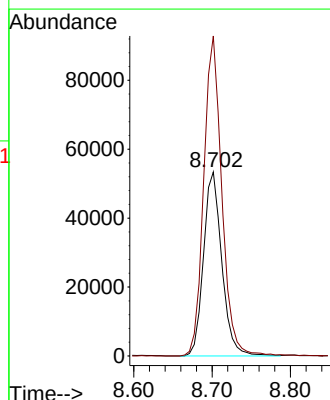
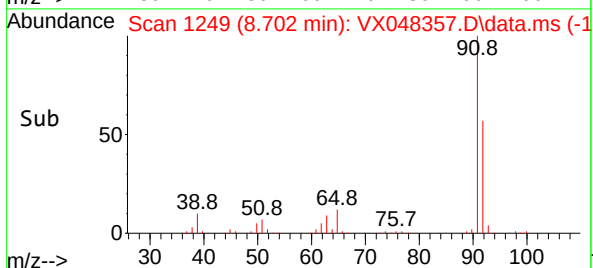
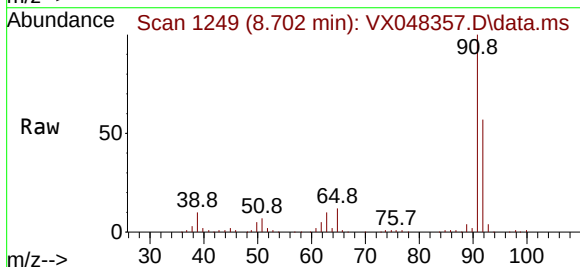
Manual Integrations
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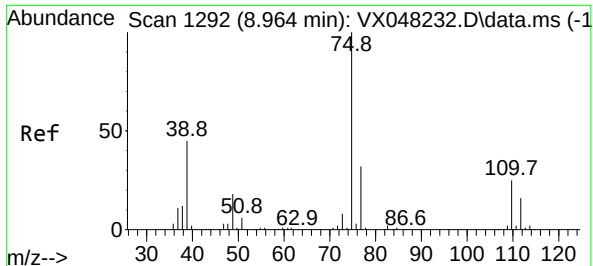
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#52
Toluene
Concen: 19.800 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Tgt Ion: 92 Resp: 86611
Ion Ratio Lower Upper
92 100
91 172.7 136.1 204.1





#53

t-1,3-Dichloropropene

Concen: 19.697 ug/l

RT: 8.958 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Tgt Ion: 75 Resp: 5227

Ion Ratio Lower Upper

75 100

77 33.4 25.0 37.6

Instrument :

MSVOA_X

ClientSampleId :

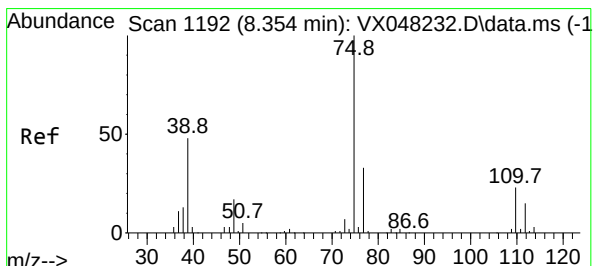
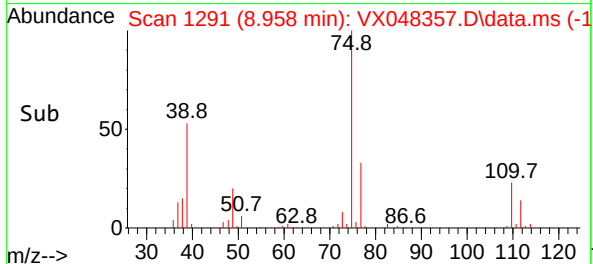
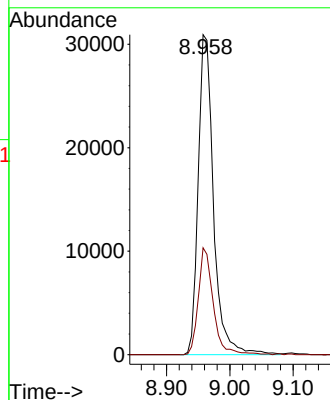
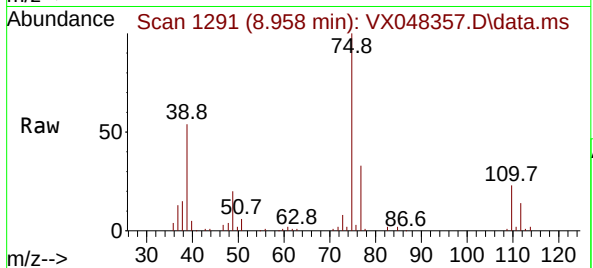
VX1027WBS01

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#54

cis-1,3-Dichloropropene

Concen: 19.269 ug/l

RT: 8.348 min Scan# 1191

Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

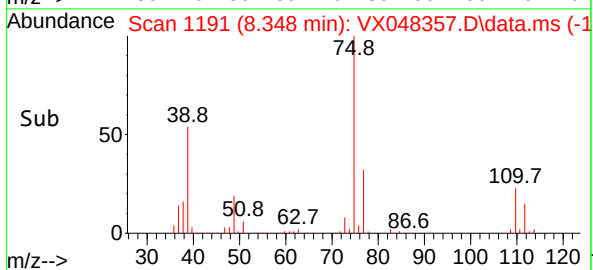
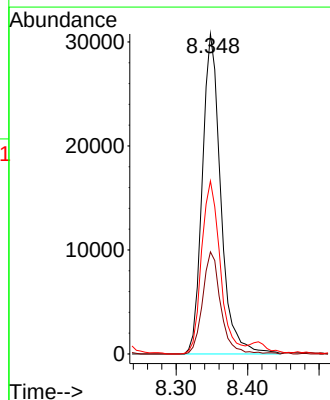
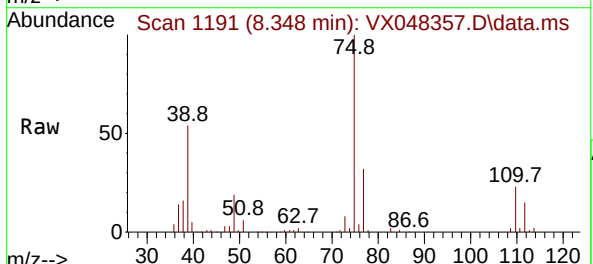
Tgt Ion: 75 Resp: 55170

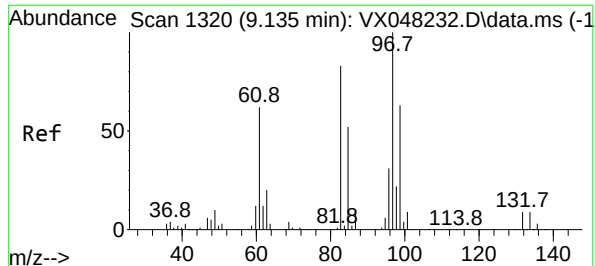
Ion Ratio Lower Upper

75 100

77 31.9 24.9 37.3

39 58.9 42.6 64.0





#55

1,1,2-Trichloroethane

Concen: 20.165 ug/l

RT: 9.134 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion: 97 Resp: 32804

Ion Ratio Lower Upper

97 100

83 87.2 70.6 105.8

85 54.1 45.0 67.6

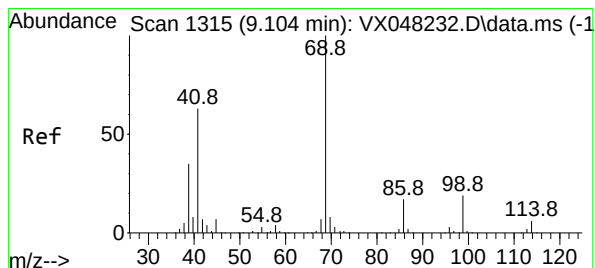
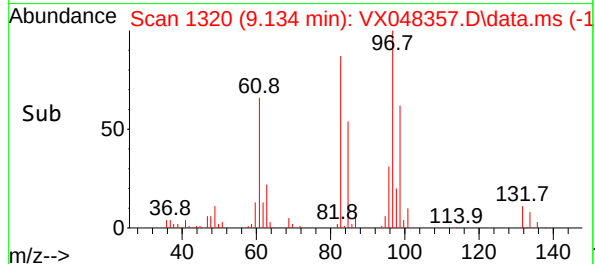
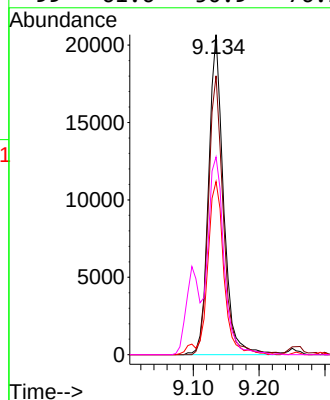
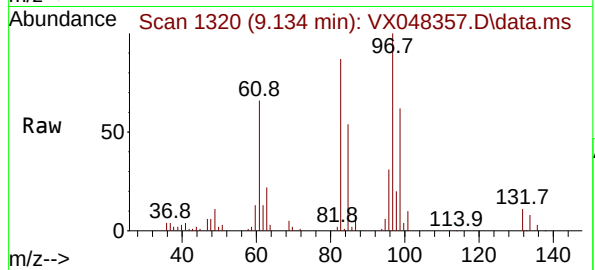
99 61.6 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#56

Ethyl methacrylate

Concen: 19.563 ug/l

RT: 9.098 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

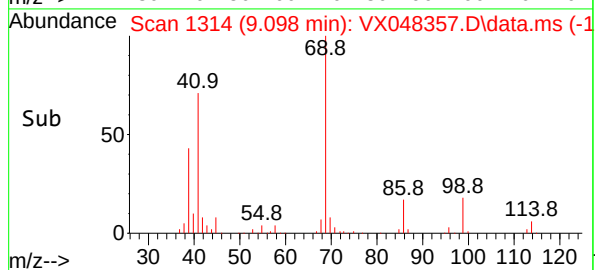
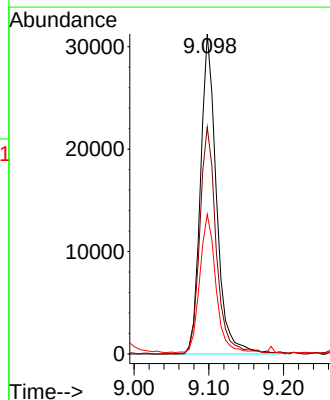
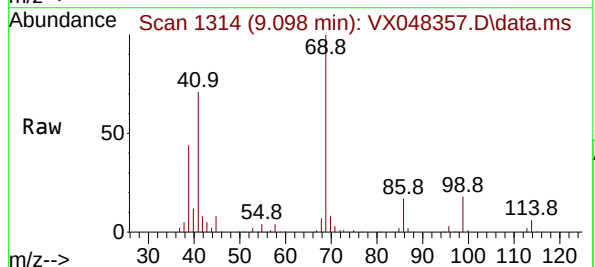
Tgt Ion: 69 Resp: 46549

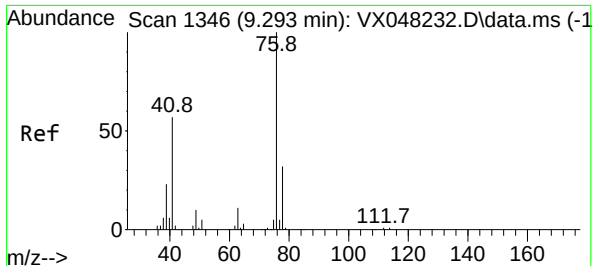
Ion Ratio Lower Upper

69 100

41 73.1 56.0 84.0

39 43.4 31.6 47.4





#57

1,3-Dichloropropane

Concen: 20.825 ug/l

RT: 9.293 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion: 76 Resp: 5786

Ion Ratio Lower Upper

76 100

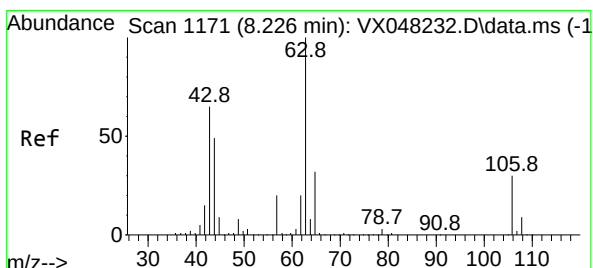
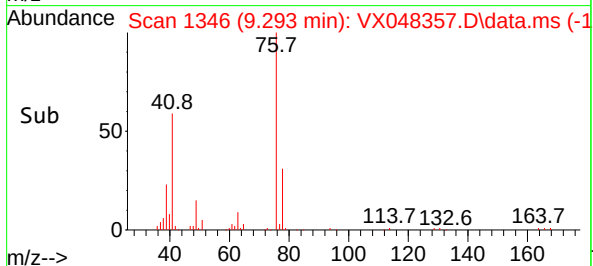
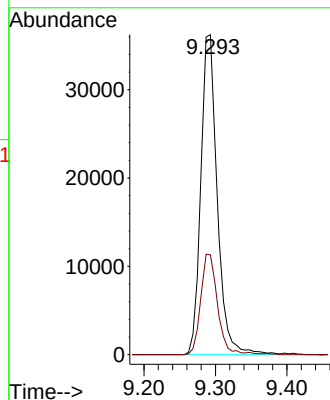
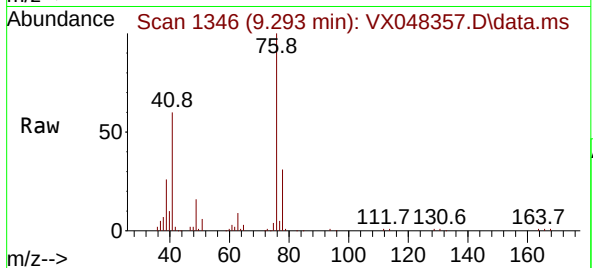
78 32.3 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#58

2-Chloroethyl Vinyl ether

Concen: 94.971 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX048357.D

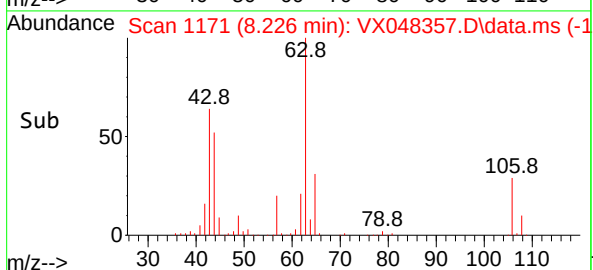
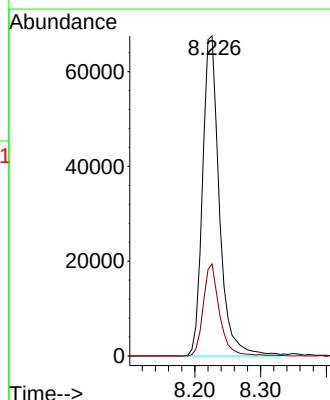
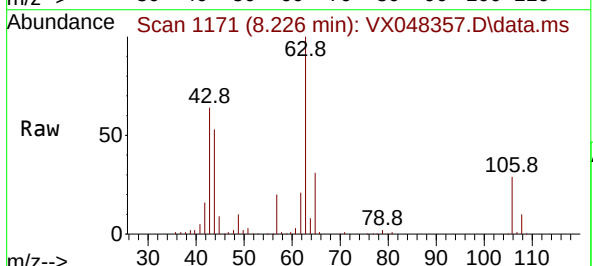
Acq: 27 Oct 2025 10:04

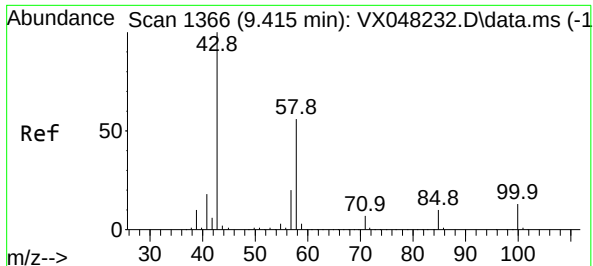
Tgt Ion: 63 Resp: 120150

Ion Ratio Lower Upper

63 100

106 27.9 22.2 33.2





#59

2-Hexanone

Concen: 96.144 ug/l

RT: 9.409 min Scan# 1365

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion: 43 Resp: 12481

Ion Ratio Lower Upper

43

100

58

52.1

26.3

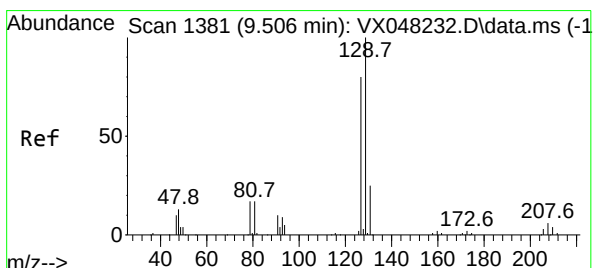
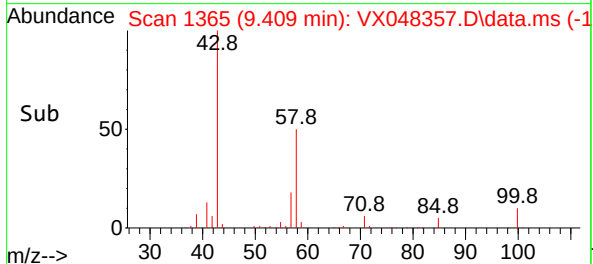
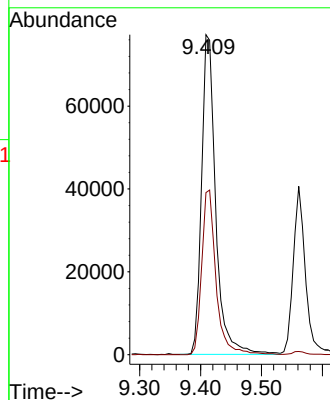
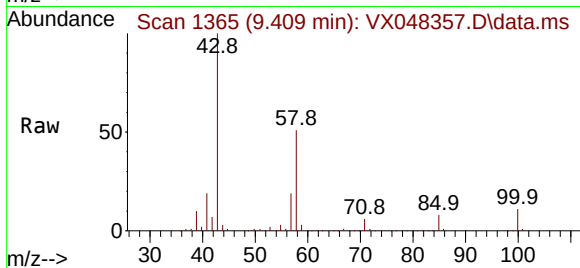
78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#60

Dibromochloromethane

Concen: 18.694 ug/l

RT: 9.500 min Scan# 1380

Delta R.T. -0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Tgt Ion:129 Resp: 40873

Ion Ratio Lower Upper

129

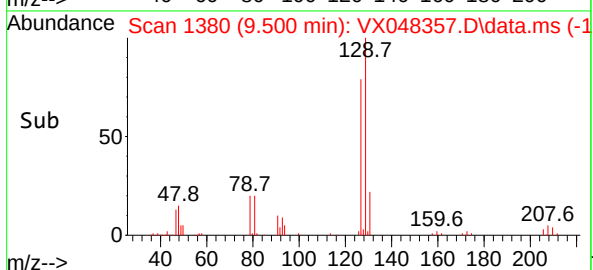
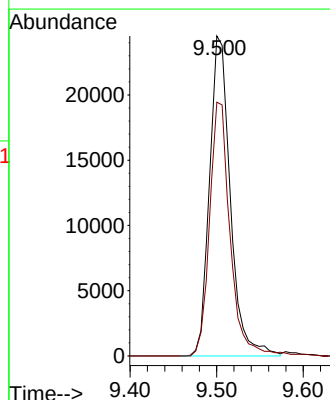
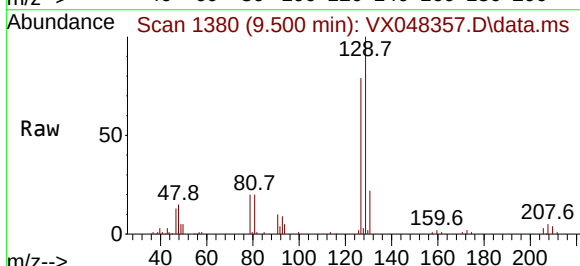
100

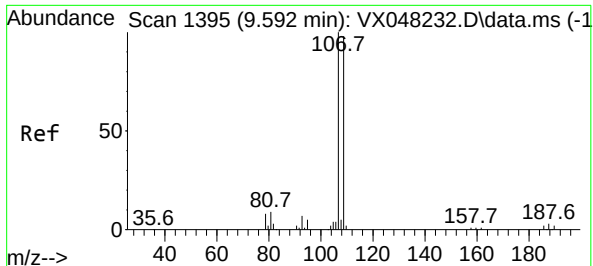
127

78.4

38.6

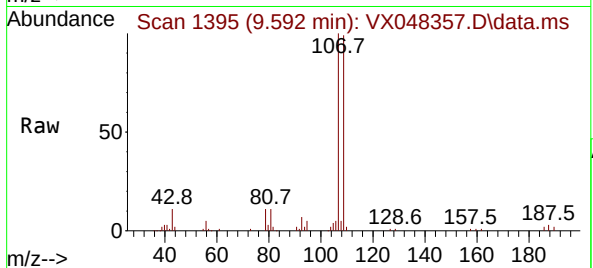
115.7





#61
1,2-Dibromoethane
Concen: 19.441 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

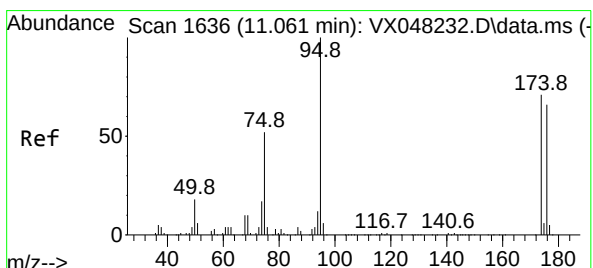
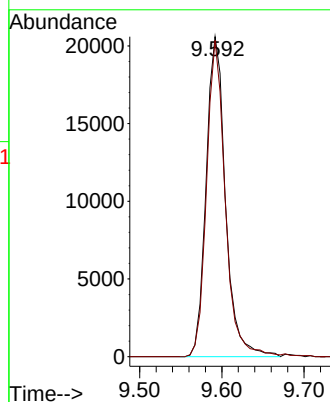
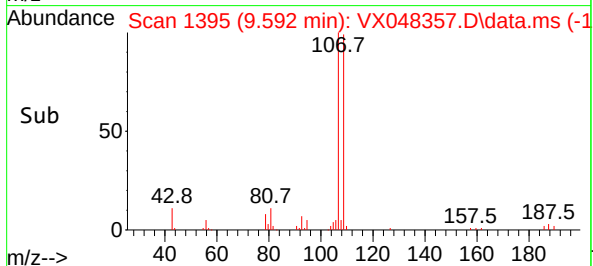
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01



Tgt Ion: 107 Resp: 33715
Ion Ratio Lower Upper
107 100
109 95.9 77.0 115.4

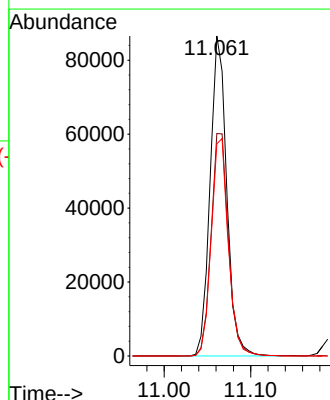
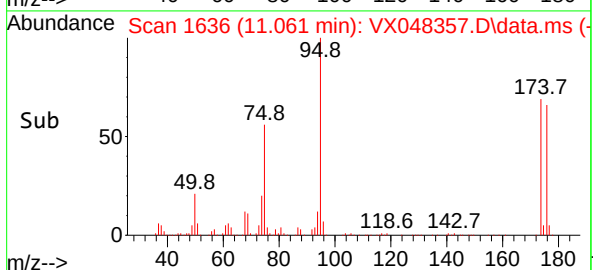
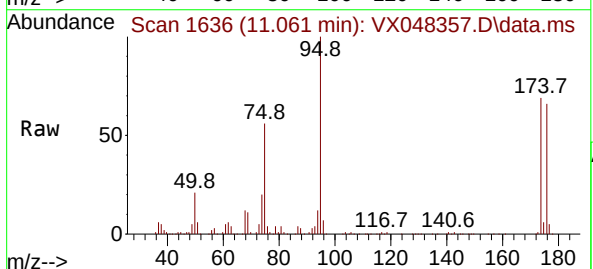
Manual Integrations
APPROVED

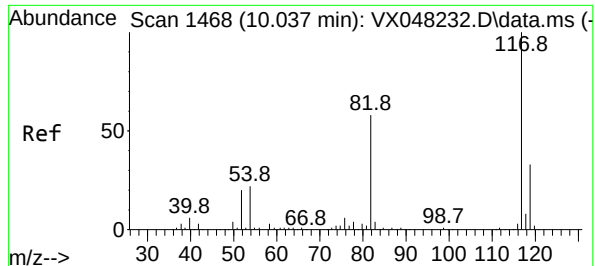
Reviewed By : John Carlone 10/28/2025
Supervised By : Mahesh Dadoda 10/28/2025



#62
4-Bromofluorobenzene
Concen: 51.834 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

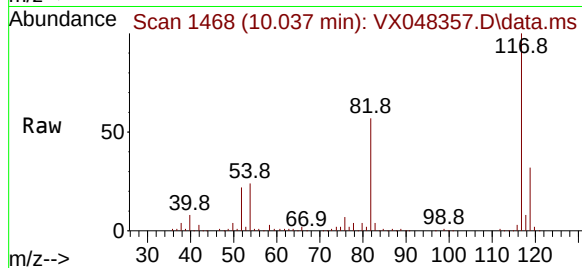
Tgt Ion: 95 Resp: 115332
Ion Ratio Lower Upper
95 100
174 72.4 0.0 147.8
176 69.9 0.0 142.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

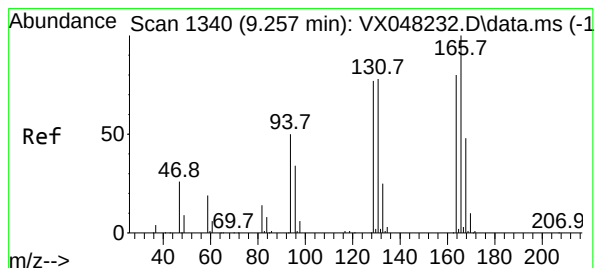
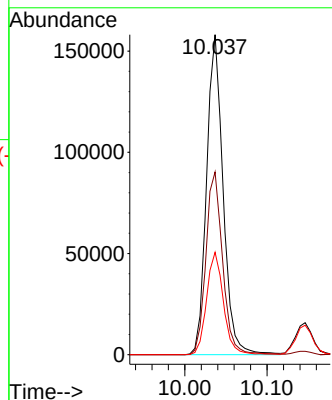
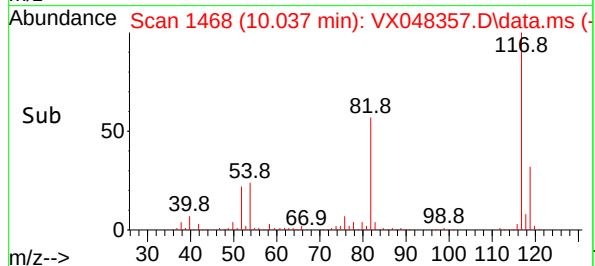
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01



Tgt Ion:117 Resp: 22110
Ion Ratio Lower Upper
117 100
82 57.1 46.5 69.7
119 32.0 25.9 38.9

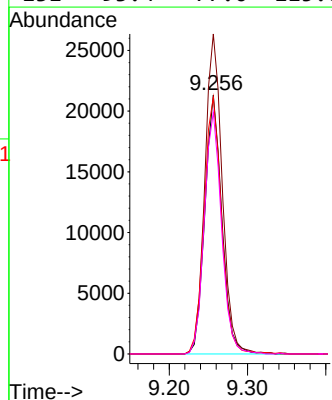
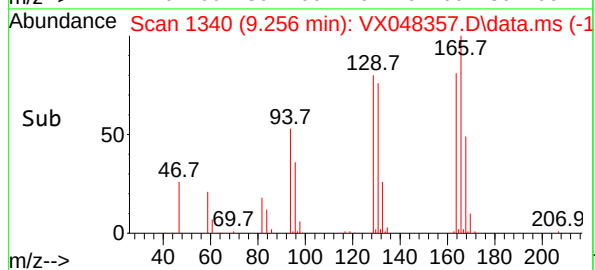
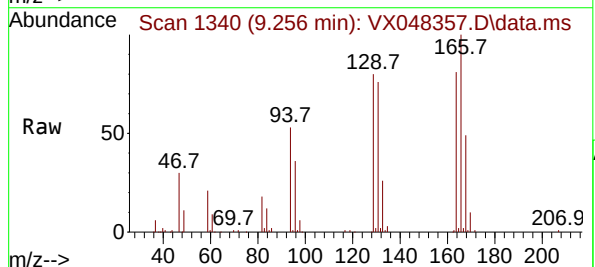
Manual Integrations
APPROVED

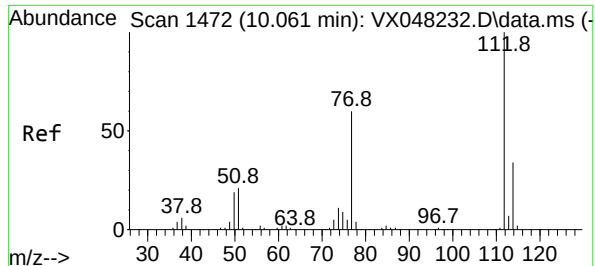
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#64
Tetrachloroethene
Concen: 19.527 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Tgt Ion:164 Resp: 32232
Ion Ratio Lower Upper
164 100
166 123.6 104.5 156.7
129 99.2 81.8 122.6
131 93.4 77.0 115.6





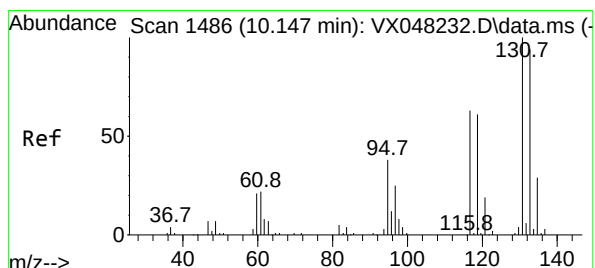
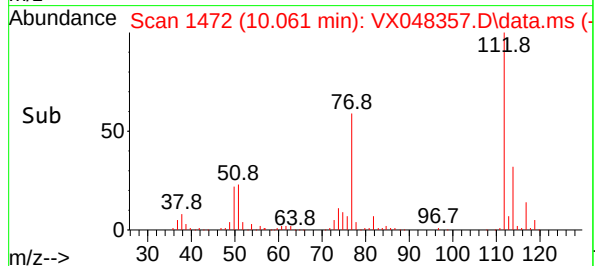
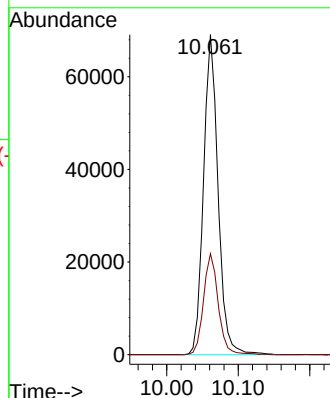
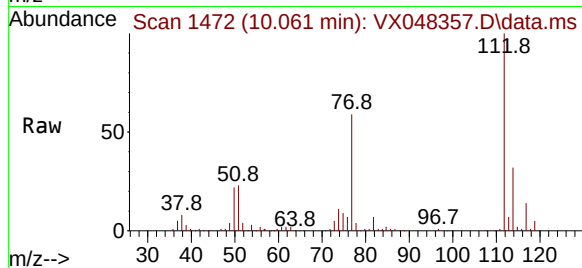
#65
Chlorobenzene
Concen: 19.640 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01

Tgt Ion:112 Resp: 97688
Ion Ratio Lower Upper
112 100
114 31.6 26.2 39.2

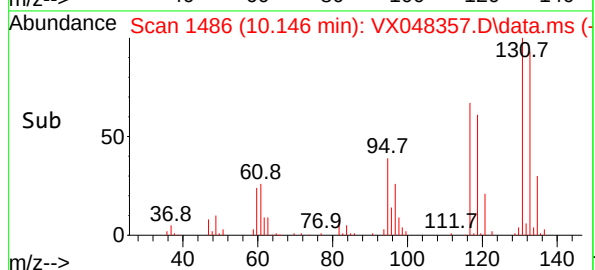
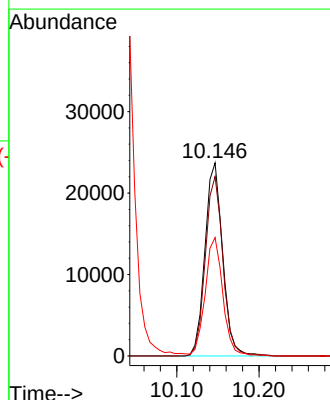
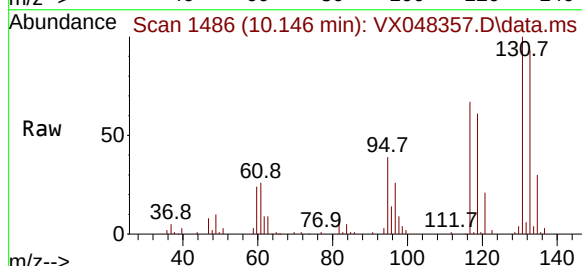
Manual Integrations
APPROVED

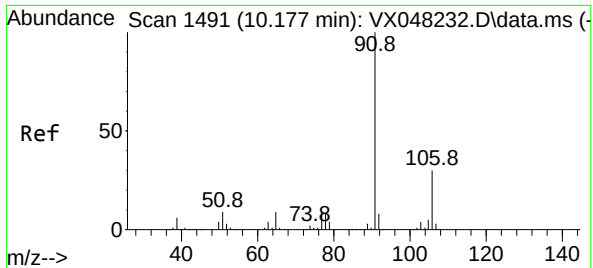
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 19.417 ug/l
RT: 10.146 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

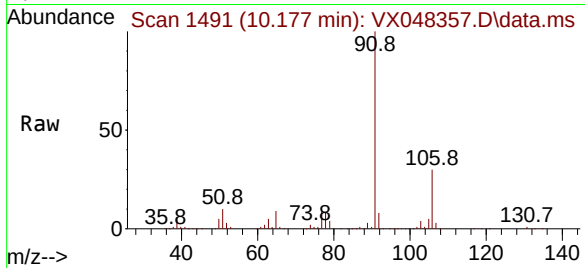
Tgt Ion:131 Resp: 35473
Ion Ratio Lower Upper
131 100
133 92.6 47.6 142.8
119 61.4 32.5 97.5





#67
Ethyl Benzene
Concen: 19.368 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

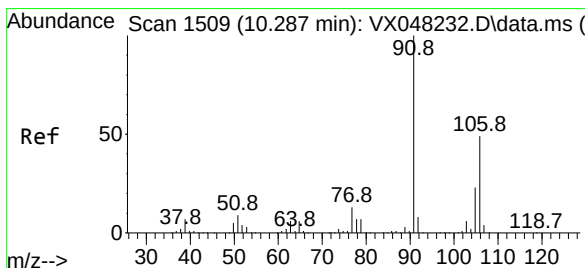
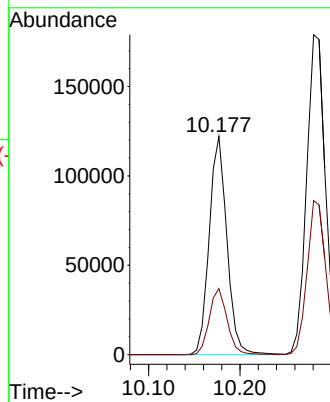
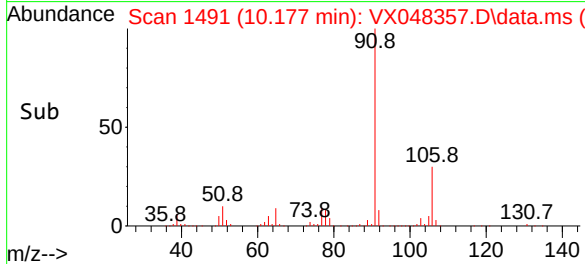
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01



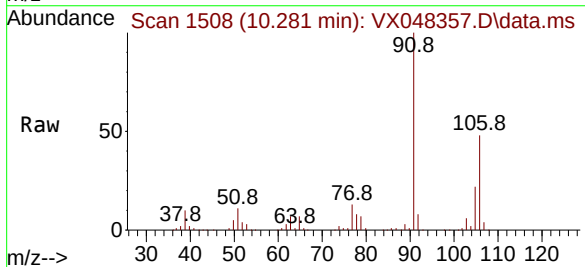
Tgt Ion: 91 Resp: 164010
Ion Ratio Lower Upper
91 100
106 30.3 23.8 35.6

Manual Integrations
APPROVED

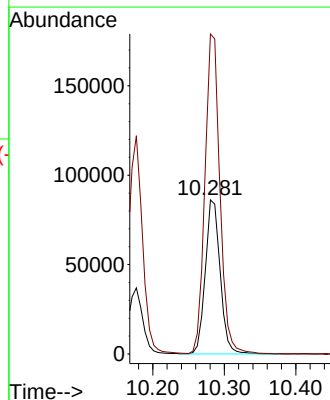
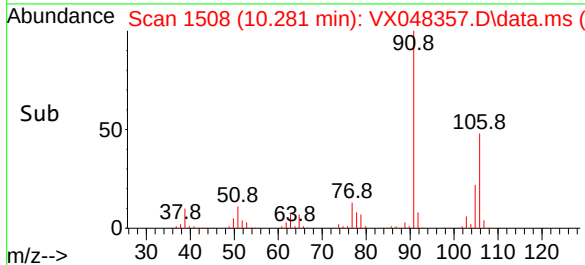
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025

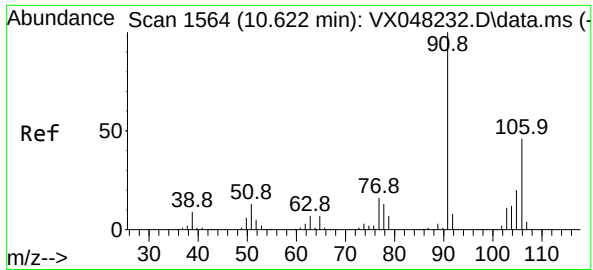


#68
m/p-Xylenes
Concen: 39.537 ug/l
RT: 10.281 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04



Tgt Ion:106 Resp: 124400
Ion Ratio Lower Upper
106 100
91 209.8 167.9 251.9





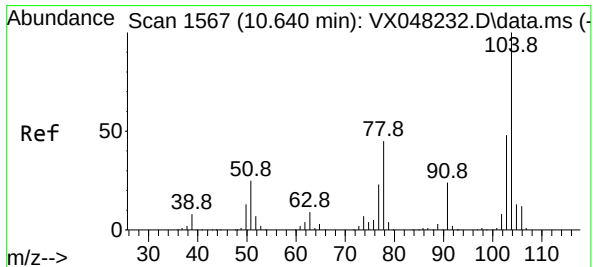
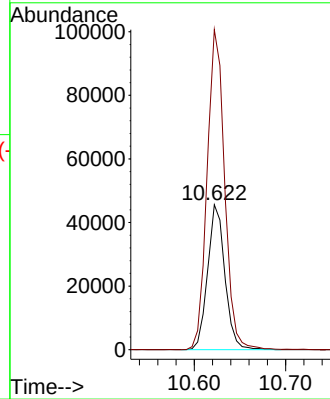
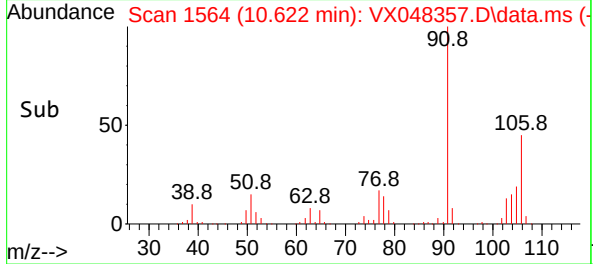
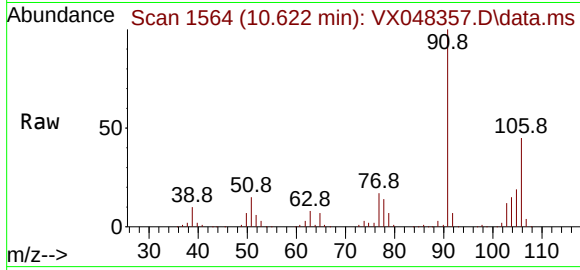
#69
o-Xylene
Concen: 19.665 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01

Tgt Ion:106 Resp: 5973
Ion Ratio Lower Upper
106 100
91 224.3 111.3 333.9

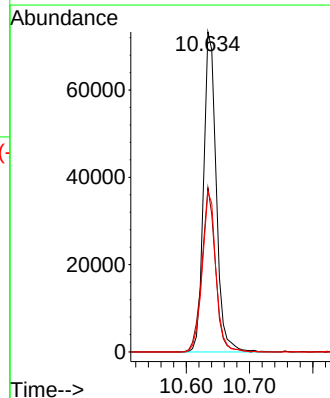
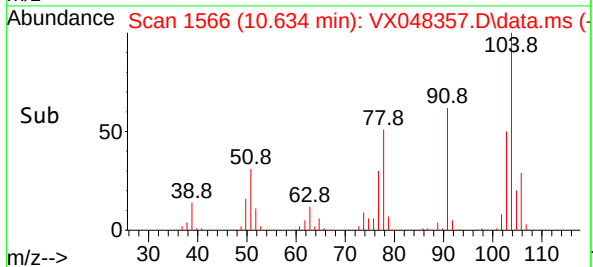
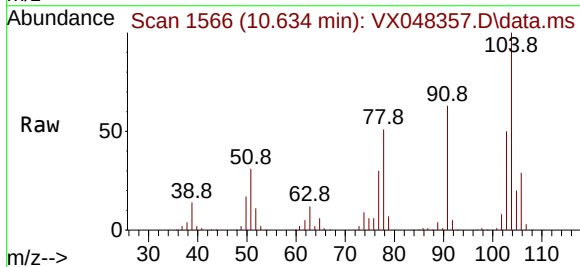
Manual Integrations
APPROVED

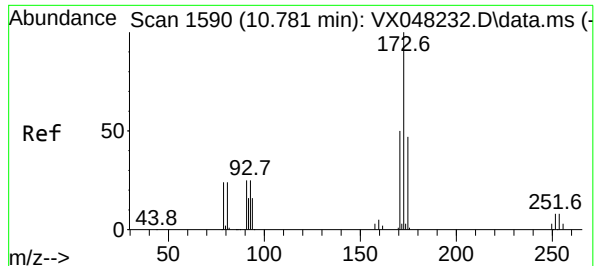
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#70
Styrene
Concen: 19.825 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

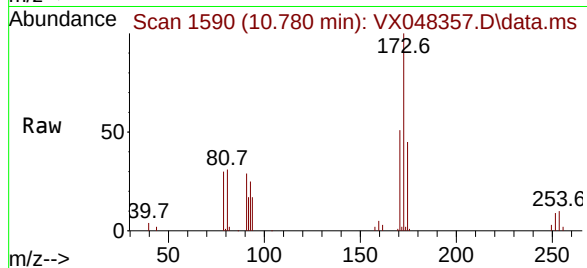
Tgt Ion:104 Resp: 102542
Ion Ratio Lower Upper
104 100
78 54.6 42.2 63.4
103 54.0 43.0 64.4





#71
Bromoform
Concen: 17.008 ug/l
RT: 10.780 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

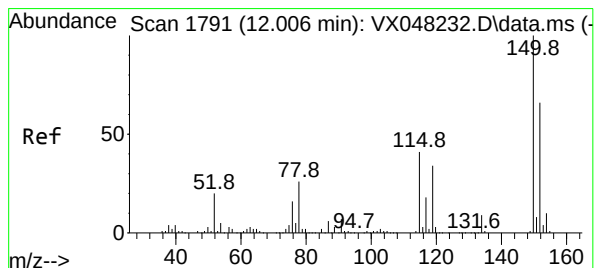
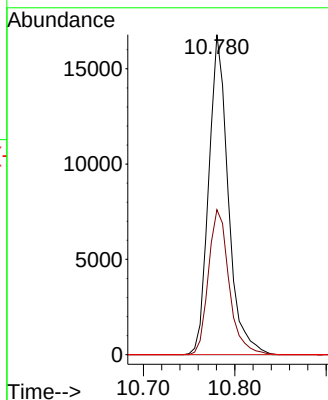
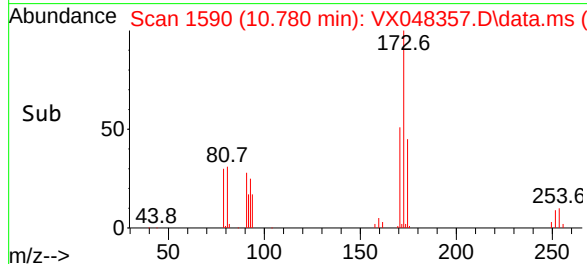
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01



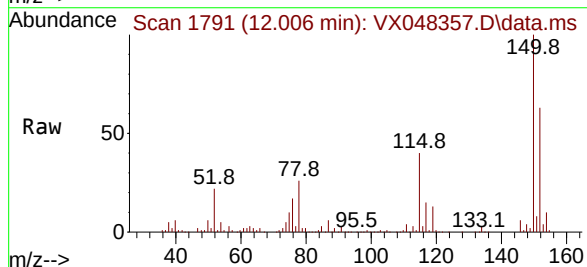
Tgt Ion:173 Resp: 2483
Ion Ratio Lower Upper
173 100
175 48.1 24.0 72.0
254 0.0 0.0 0.0

Manual Integrations
APPROVED

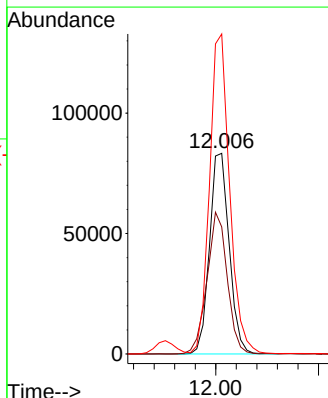
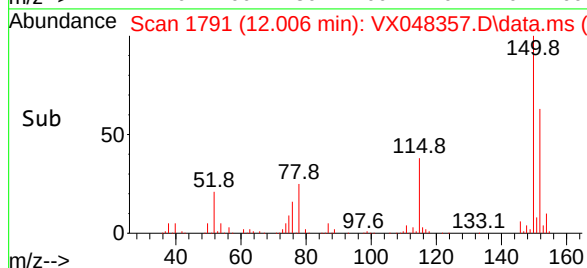
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025

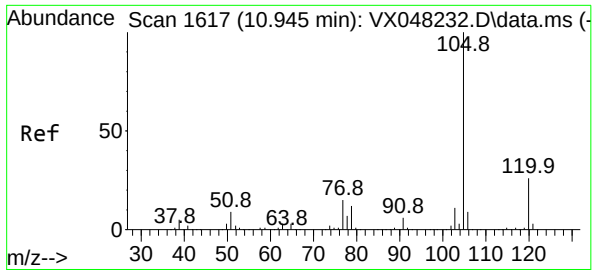


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04



Tgt Ion:152 Resp: 110523
Ion Ratio Lower Upper
152 100
115 72.7 43.1 129.4
150 162.6 0.0 353.0





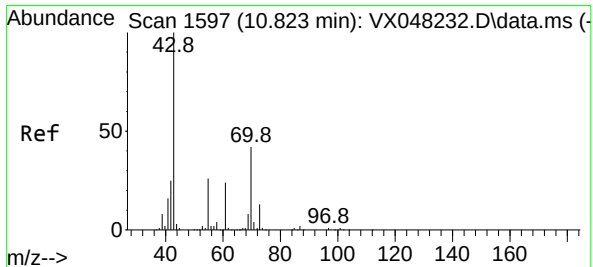
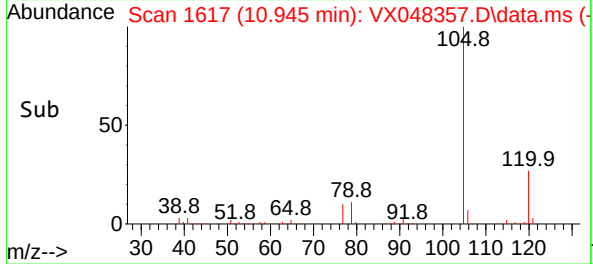
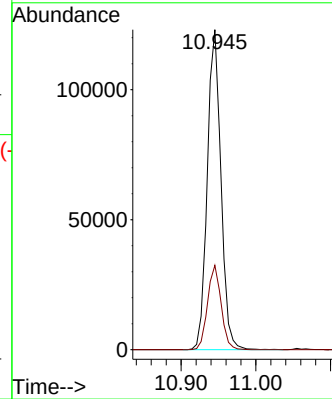
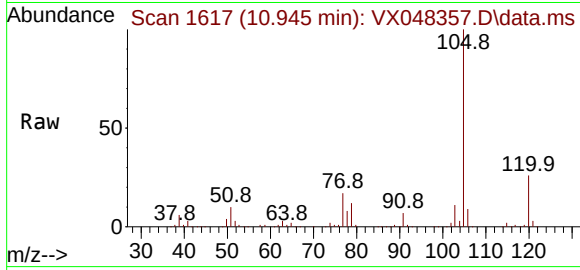
#73
Isopropylbenzene
Concen: 19.302 ug/l
RT: 10.945 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01

Tgt Ion:105 Resp: 155818
Ion Ratio Lower Upper
105 100
120 26.2 13.0 38.9

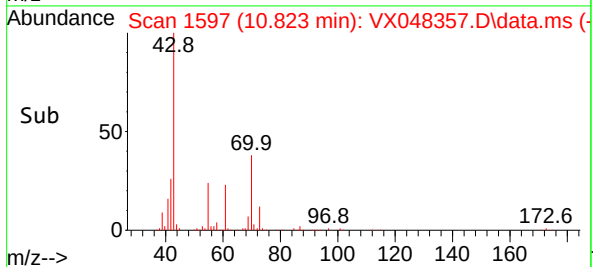
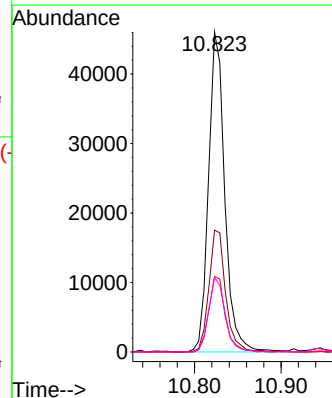
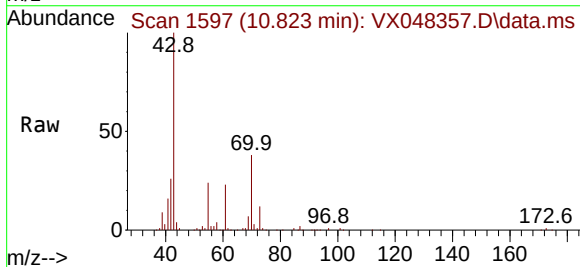
Manual Integrations
APPROVED

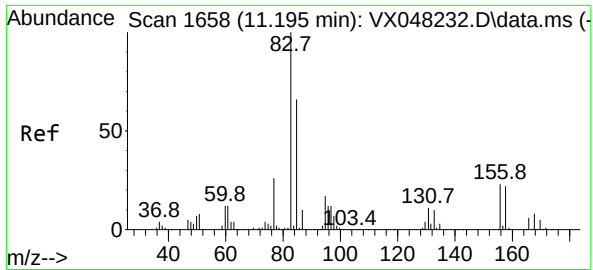
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#74
N-ethyl acetate
Concen: 20.985 ug/l
RT: 10.823 min Scan# 1597
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Tgt Ion: 43 Resp: 60091
Ion Ratio Lower Upper
43 100
70 39.3 32.2 48.2
55 24.0 19.1 28.7
61 23.7 18.6 28.0





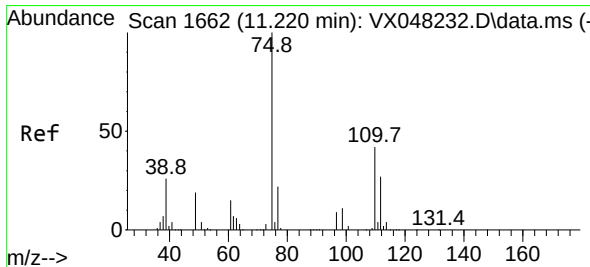
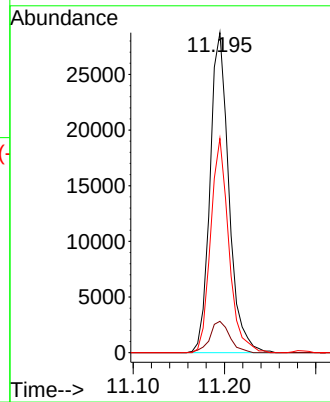
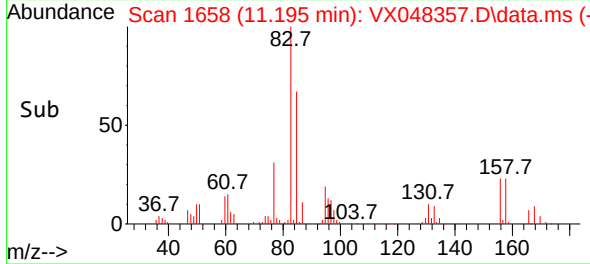
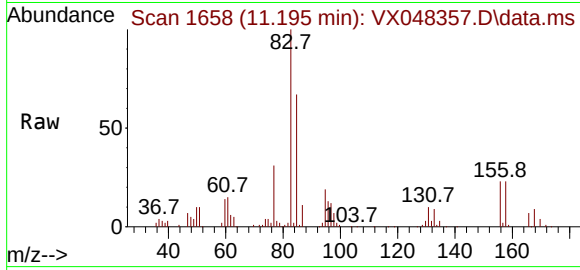
#75
1,1,2,2-Tetrachloroethane
Concen: 18.649 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01

Tgt Ion: 83 Resp: 4111
Ion Ratio Lower Upper
83 100
131 10.3 4.8 14.4
85 64.4 31.9 95.7

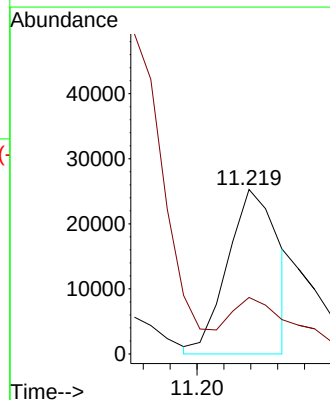
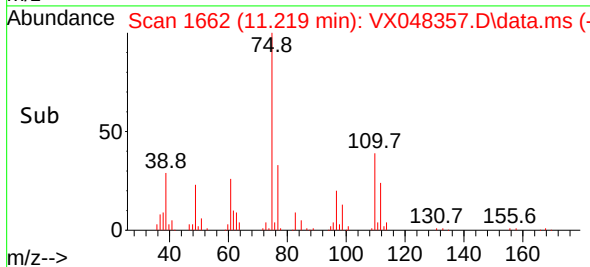
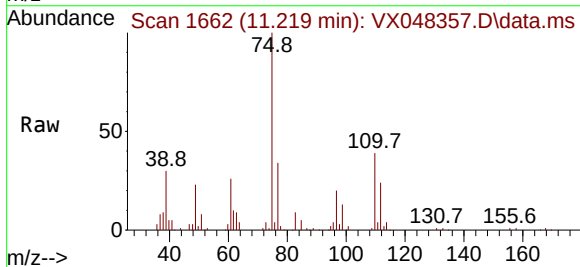
Manual Integrations
APPROVED

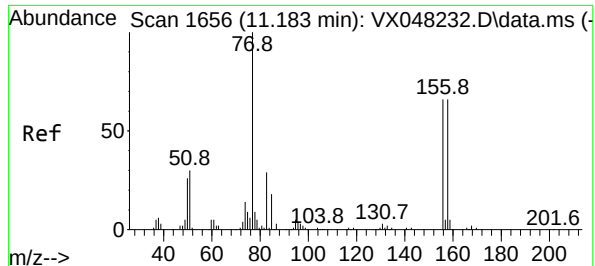
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#76
1,2,3-Trichloropropane
Concen: 18.459 ug/l m
RT: 11.219 min Scan# 1662
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Tgt Ion: 75 Resp: 33085
Ion Ratio Lower Upper
75 100
77 43.3 22.4 67.2





#77

Bromobenzene

Concen: 18.577 ug/l

RT: 11.177 min Scan# 1656

Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

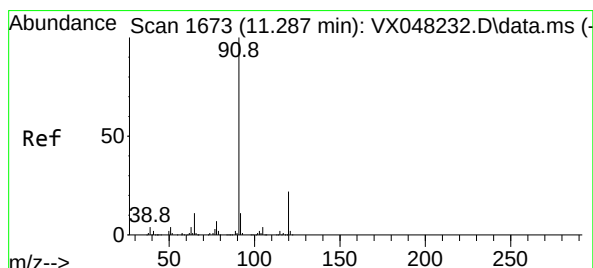
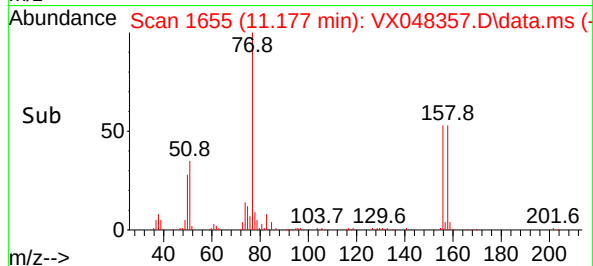
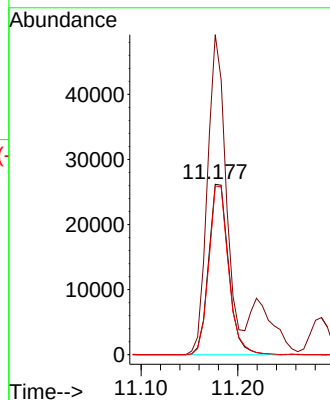
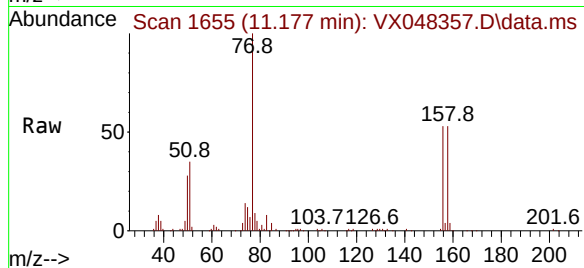
Tgt Ion:	156	Resp:	3760
Ion Ratio	Lower	Upper	
156	100		
77	176.9	87.0	261.0
158	98.0	47.8	143.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#78

n-propylbenzene

Concen: 19.533 ug/l

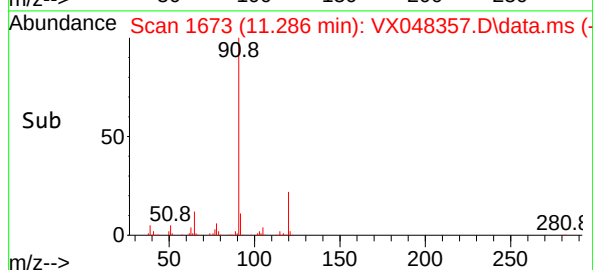
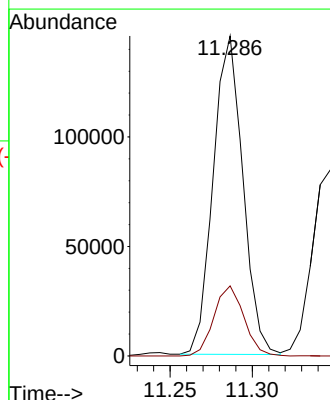
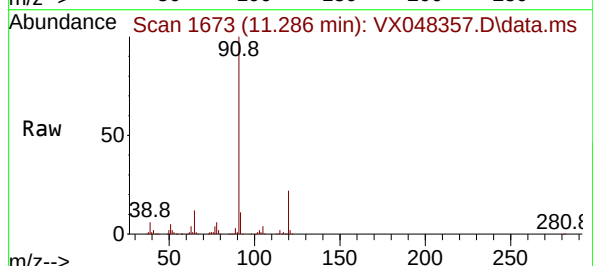
RT: 11.286 min Scan# 1673

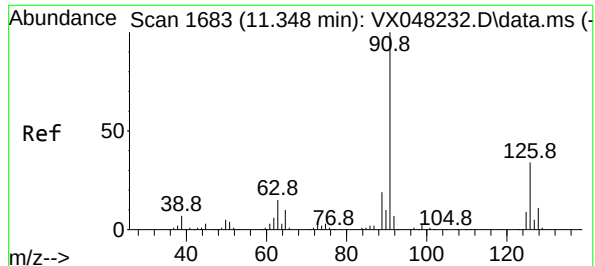
Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Tgt Ion:	91	Resp:	182569
Ion Ratio	Lower	Upper	
91	100		
120	22.3	11.1	33.1





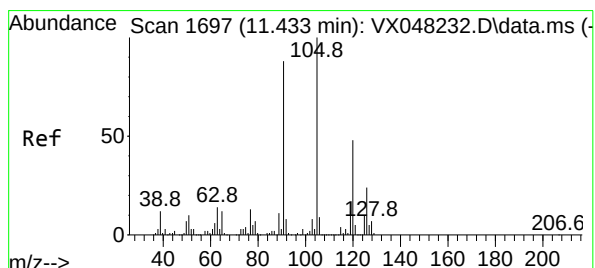
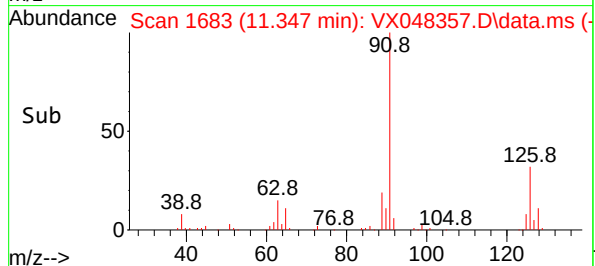
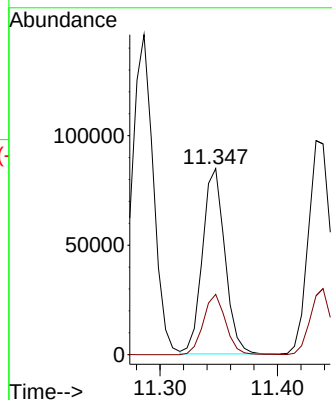
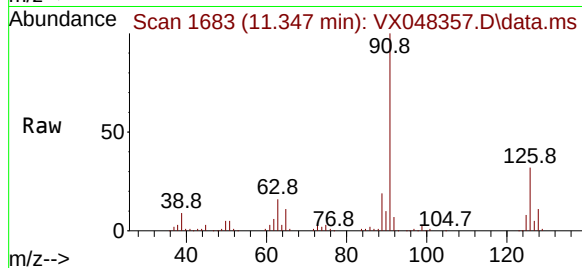
#79
2-Chlorotoluene
Concen: 19.755 ug/l
RT: 11.347 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01

Tgt Ion: 91 Resp: 11194
Ion Ratio Lower Upper
91 100
126 32.4 16.4 49.4

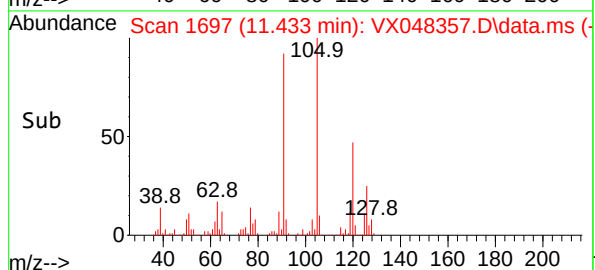
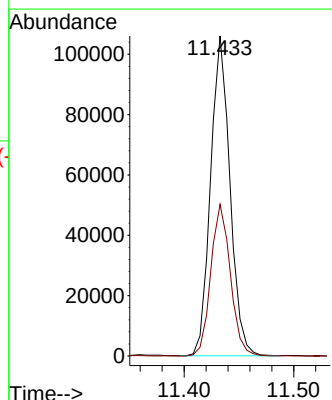
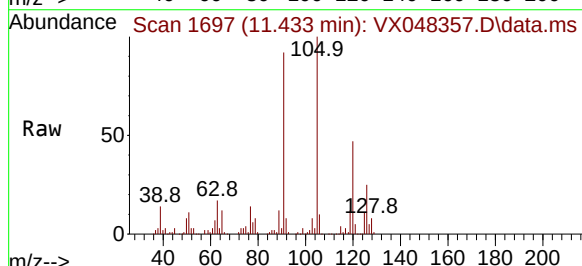
Manual Integrations
APPROVED

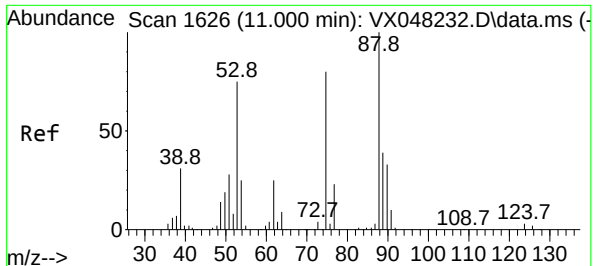
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#80
1,3,5-Trimethylbenzene
Concen: 19.474 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

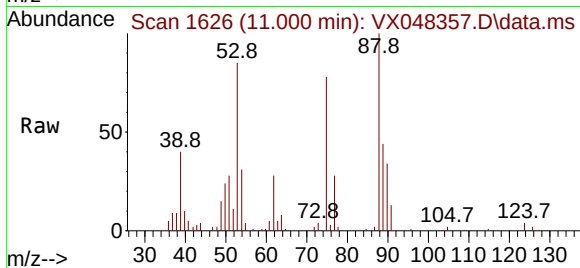
Tgt Ion:105 Resp: 130099
Ion Ratio Lower Upper
105 100
120 47.8 24.0 72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 13.027 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

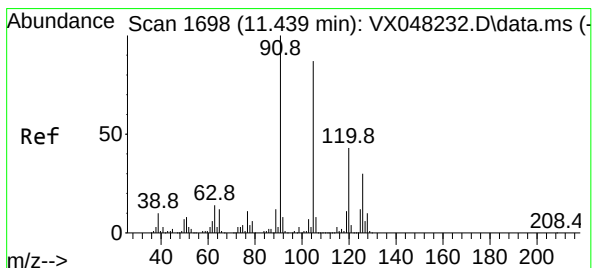
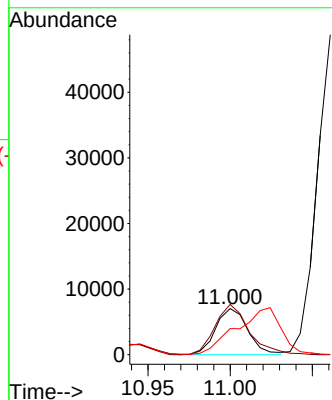
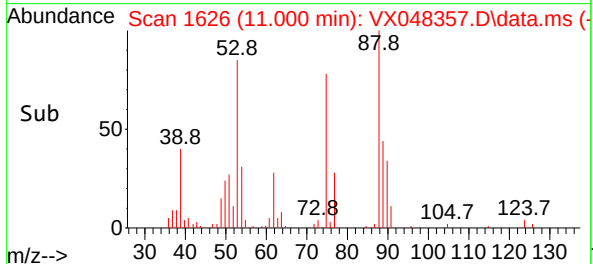
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01



Tgt Ion: 75 Resp: 959
Ion Ratio Lower Upper
75 100
53 115.2 79.5 119.3
89 0.0 36.8 55.2

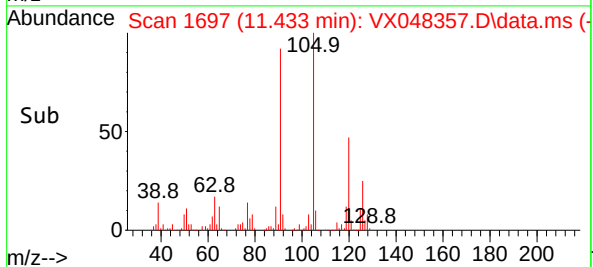
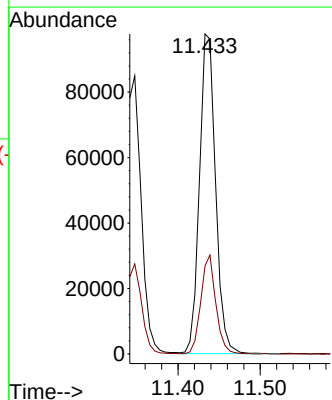
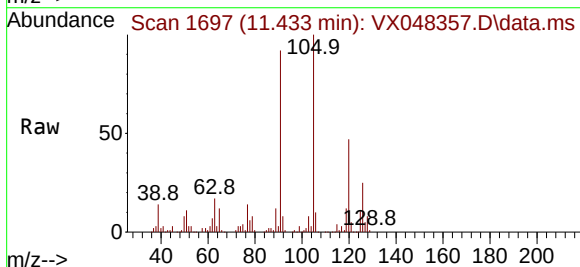
Manual Integrations
APPROVED

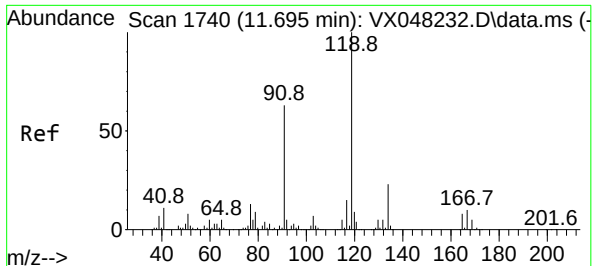
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#82
4-Chlorotoluene
Concen: 19.708 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Tgt Ion: 91 Resp: 132574
Ion Ratio Lower Upper
91 100
126 28.8 14.1 42.4





#83

tert-Butylbenzene

Concen: 18.900 ug/l

RT: 11.695 min Scan# 1740

Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

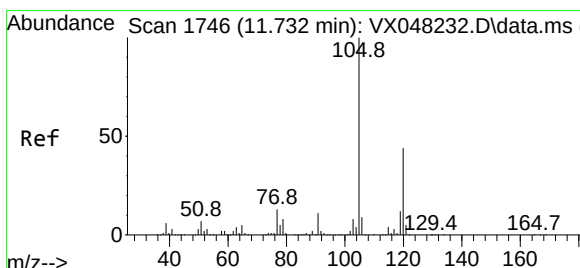
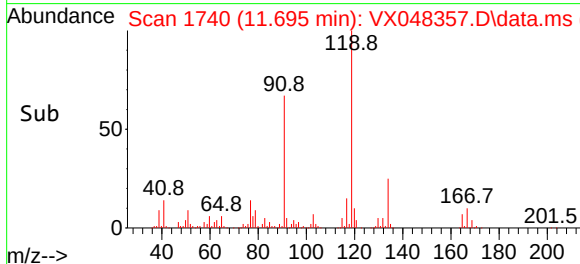
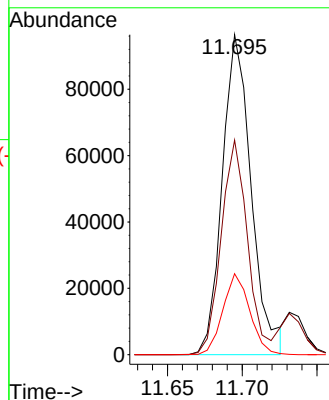
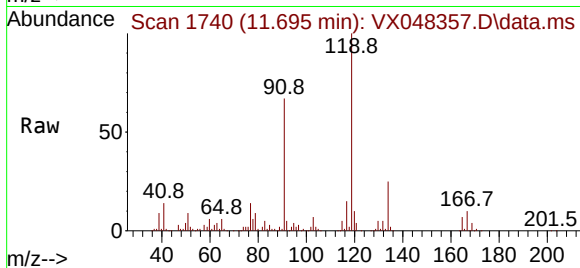
Tgt Ion:	119	Resp:	129729
Ion	Ratio	Lower	Upper
119	100		
91	61.2	30.3	91.0
134	23.5	11.4	34.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#84

1,2,4-Trimethylbenzene

Concen: 19.457 ug/l

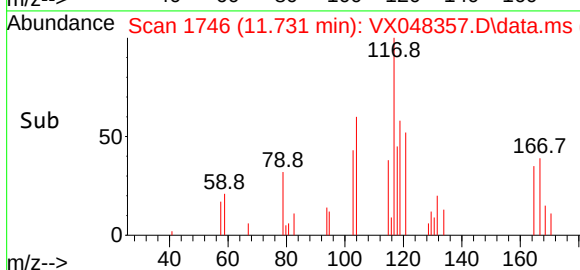
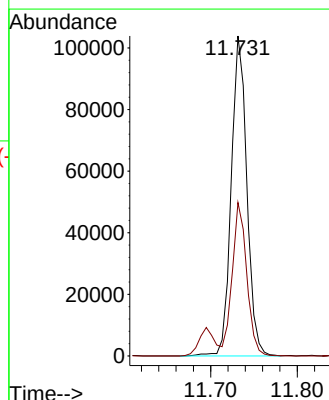
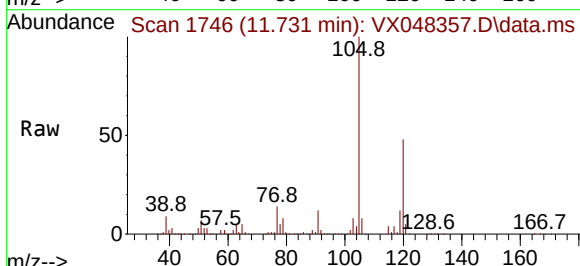
RT: 11.731 min Scan# 1746

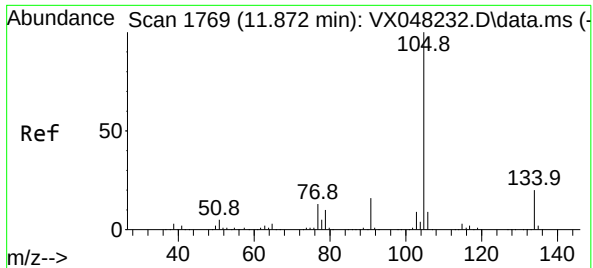
Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Tgt Ion:	105	Resp:	129721
Ion	Ratio	Lower	Upper
105	100		
120	44.7	22.1	66.5





#85

sec-Butylbenzene

Concen: 19.512 ug/l

RT: 11.872 min Scan# 1769

Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion:105 Resp: 161128

Ion Ratio Lower Upper

105 100

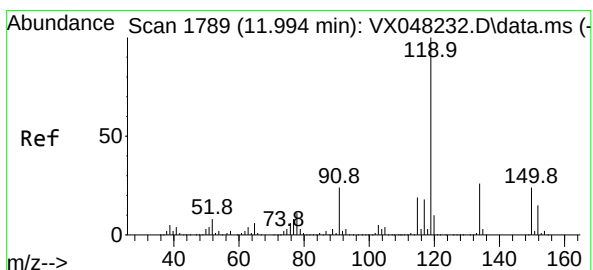
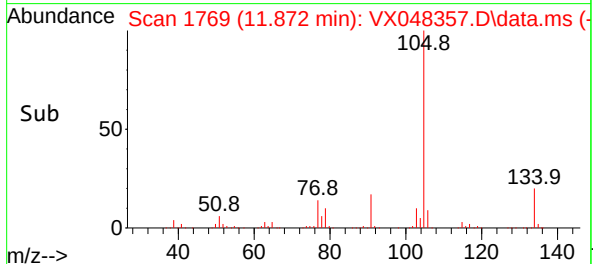
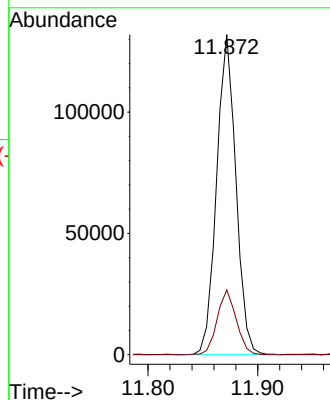
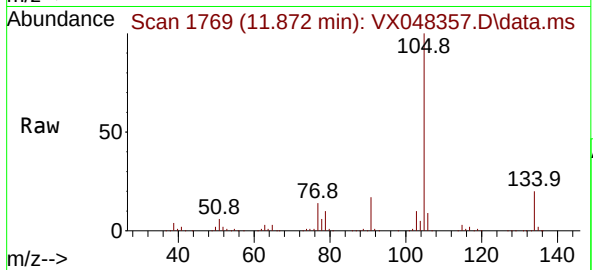
134 20.0 10.1 30.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#86

p-Isopropyltoluene

Concen: 19.094 ug/l

RT: 11.988 min Scan# 1788

Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

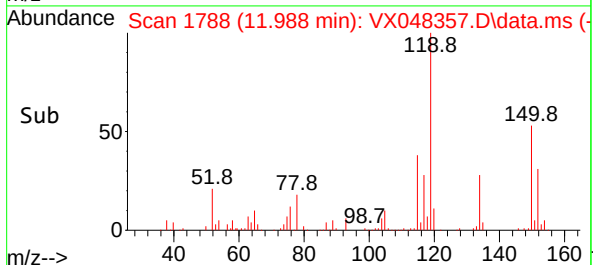
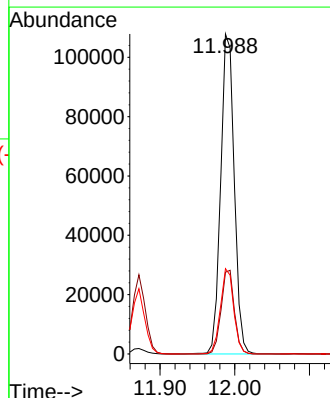
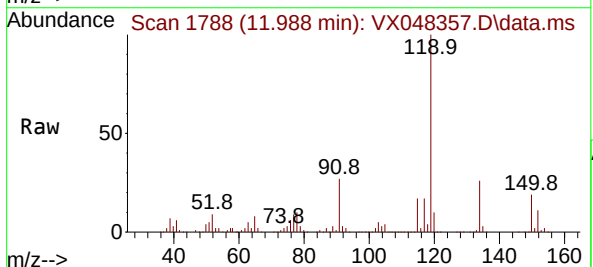
Tgt Ion:119 Resp: 136294

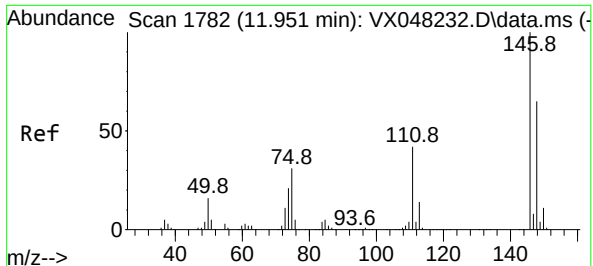
Ion Ratio Lower Upper

119 100

134 25.5 13.0 39.0

91 26.1 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 18.648 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion:146 Resp: 71158

Ion Ratio Lower Upper

146 100

111 41.2 20.4 61.2

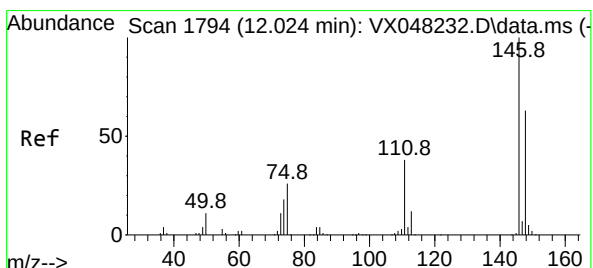
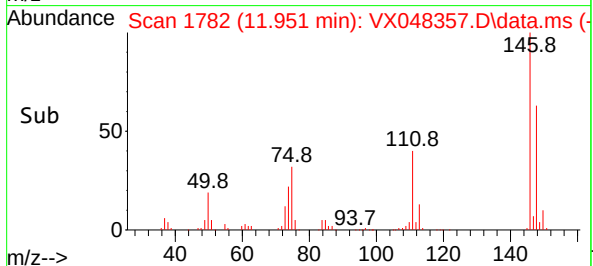
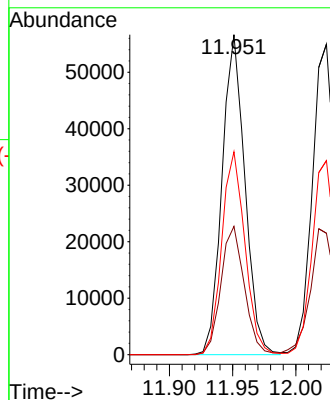
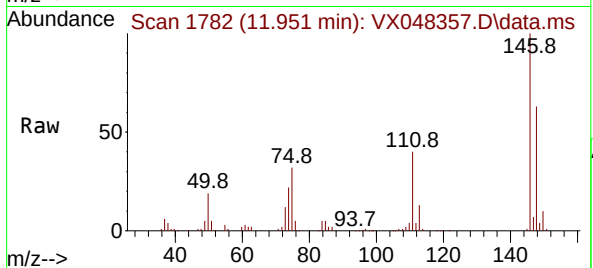
148 64.1 31.9 95.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#88

1,4-Dichlorobenzene

Concen: 18.233 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

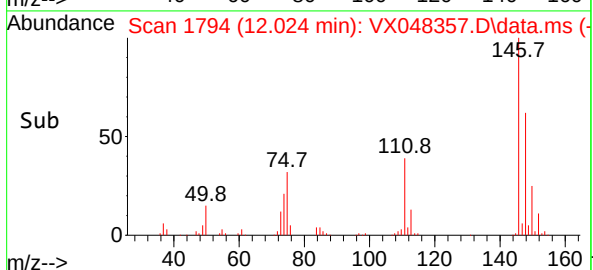
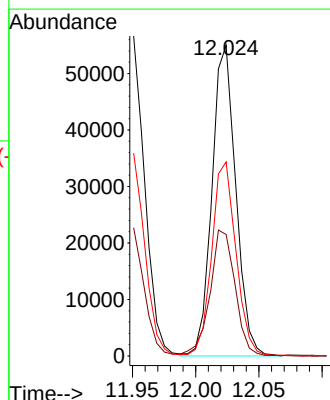
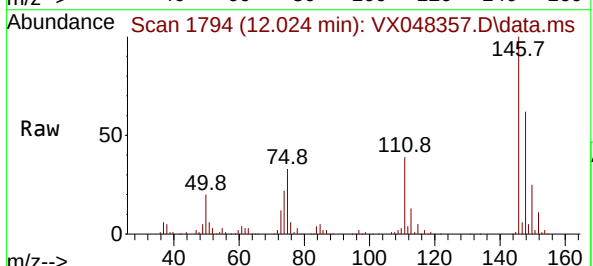
Tgt Ion:146 Resp: 72075

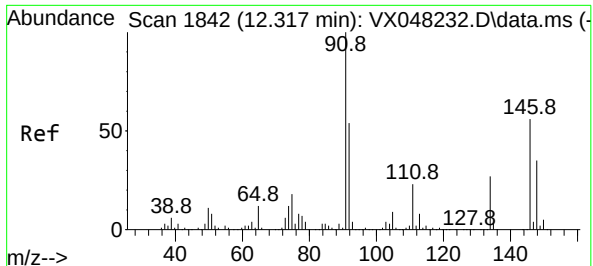
Ion Ratio Lower Upper

146 100

111 42.7 20.1 60.2

148 63.9 31.8 95.3





#89

n-Butylbenzene

Concen: 19.183 ug/l

RT: 12.317 min Scan# 1842

Delta R.T. 0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion: 91 Resp: 124628

Ion Ratio Lower Upper

91 100

92 53.1 26.9 80.6

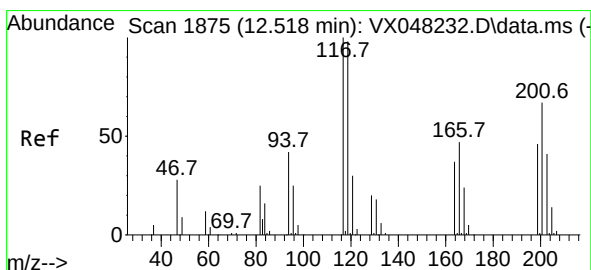
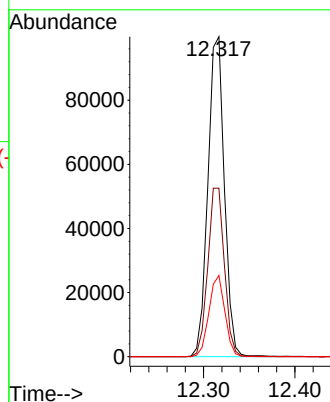
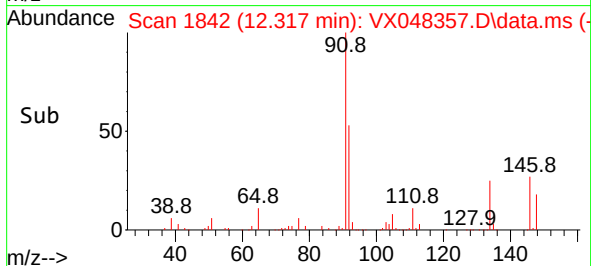
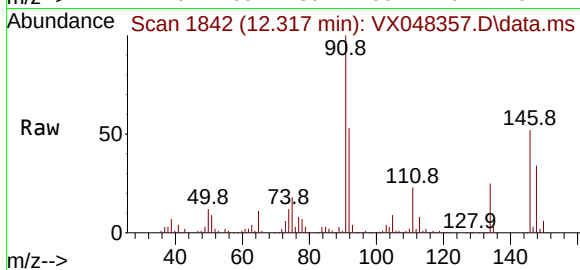
134 24.6 12.7 38.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#90

Hexachloroethane

Concen: 16.681 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX048357.D

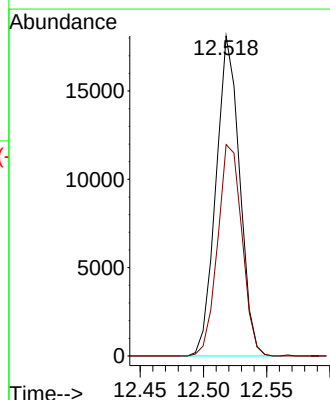
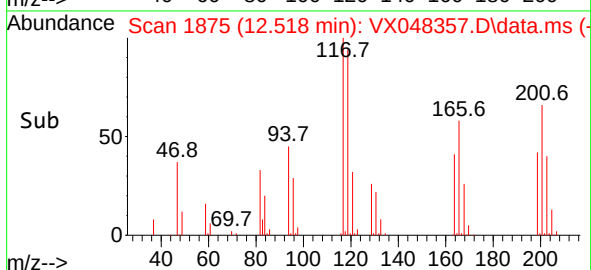
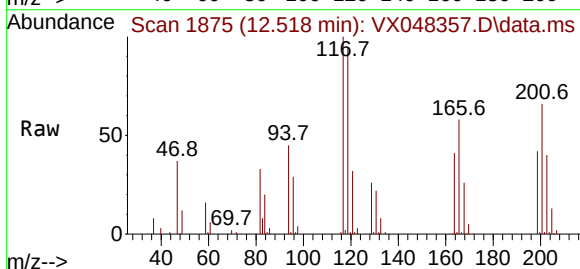
Acq: 27 Oct 2025 10:04

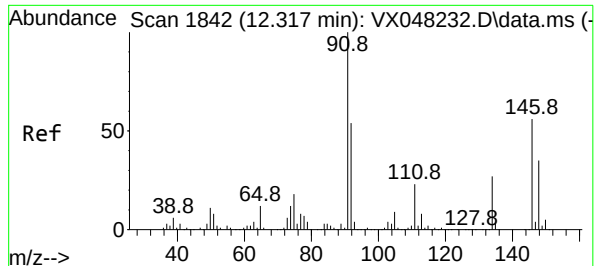
Tgt Ion:117 Resp: 23513

Ion Ratio Lower Upper

117 100

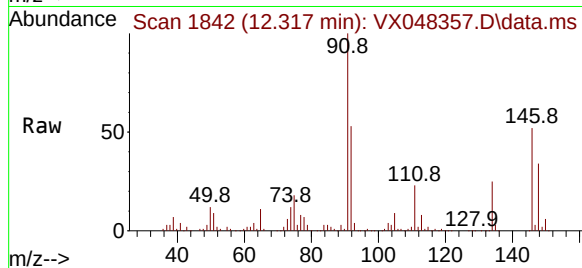
201 68.1 34.1 102.2





#91
1,2-Dichlorobenzene
Concen: 18.752 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

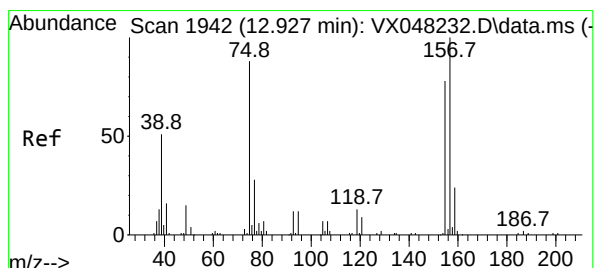
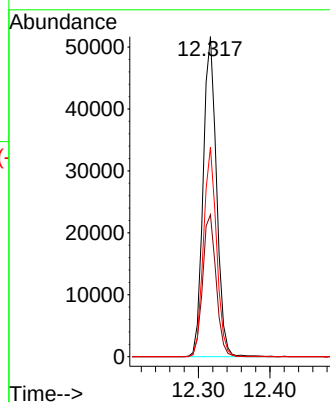
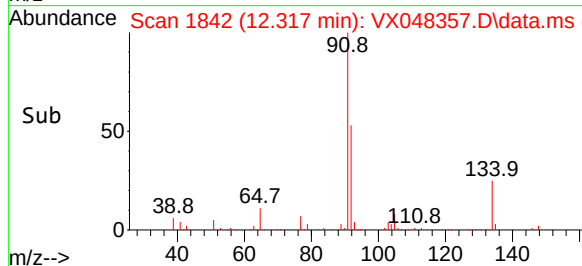
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBS01



Tgt Ion:146 Resp: 67180
Ion Ratio Lower Upper
146 100
111 44.5 21.9 65.5
148 63.7 31.9 95.5

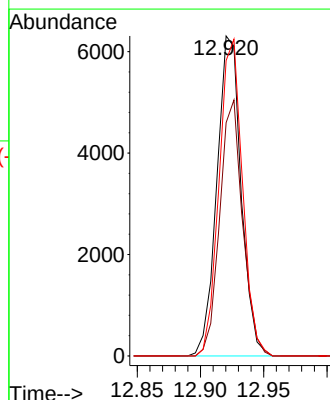
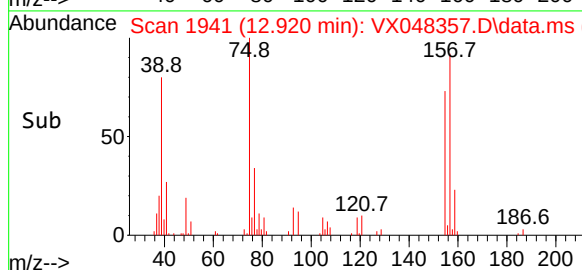
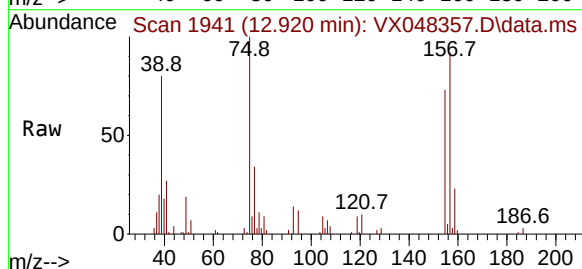
Manual Integrations
APPROVED

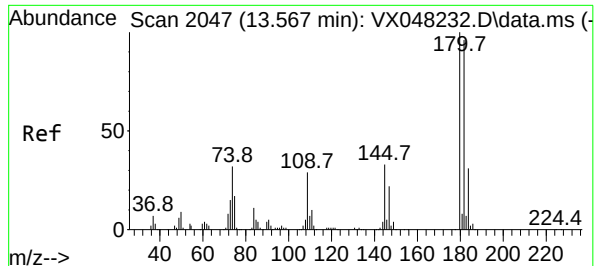
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 18.783 ug/l
RT: 12.920 min Scan# 1941
Delta R.T. -0.000 min
Lab File: VX048357.D
Acq: 27 Oct 2025 10:04

Tgt Ion: 75 Resp: 8405
Ion Ratio Lower Upper
75 100
155 75.5 42.8 128.4
157 95.3 54.2 162.6





#93

1,2,4-Trichlorobenzene

Concen: 17.657 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

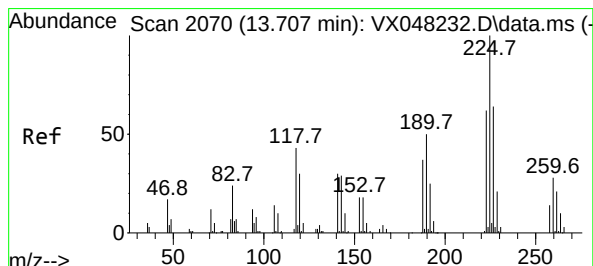
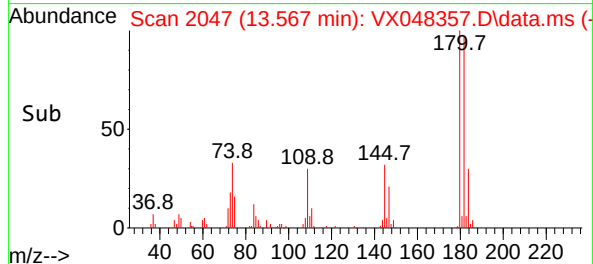
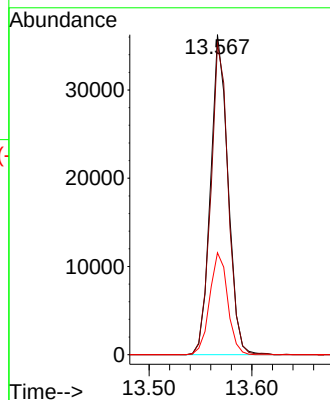
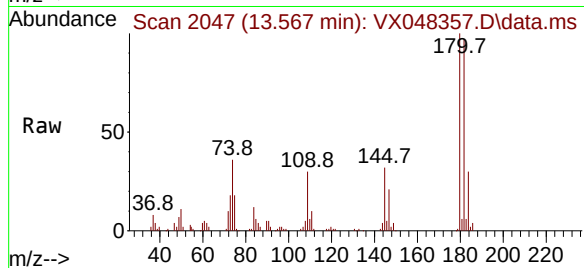
Tgt Ion:180	Resp:	42780
Ion Ratio	Lower	Upper
180	100	
182	97.5	47.3 142.0
145	32.8	16.3 48.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#94

Hexachlorobutadiene

Concen: 20.098 ug/l

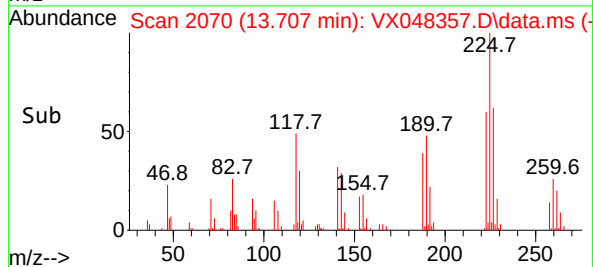
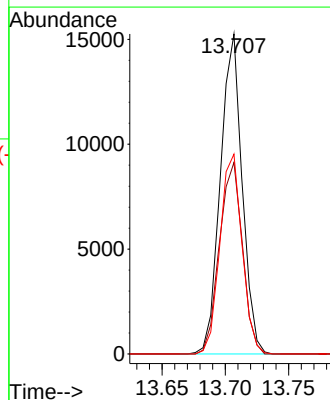
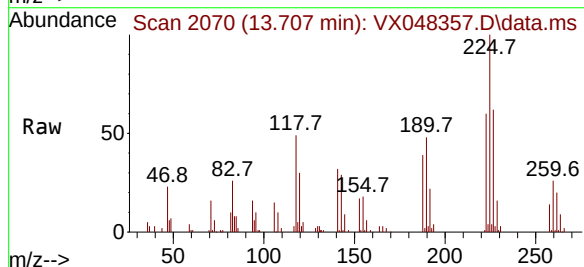
RT: 13.707 min Scan# 2070

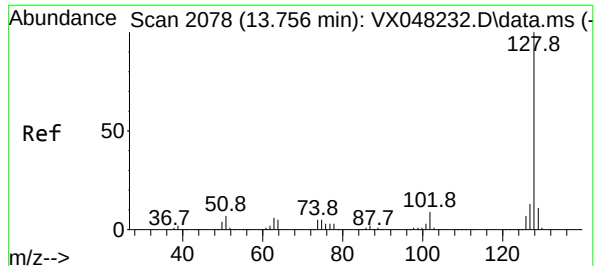
Delta R.T. 0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Tgt Ion:225	Resp:	18210
Ion Ratio	Lower	Upper
225	100	
223	63.1	32.6 97.7
227	63.4	32.5 97.4





#95

Naphthalene

Concen: 18.123 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. -0.000 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBS01

Tgt Ion:128 Resp: 11633

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.4

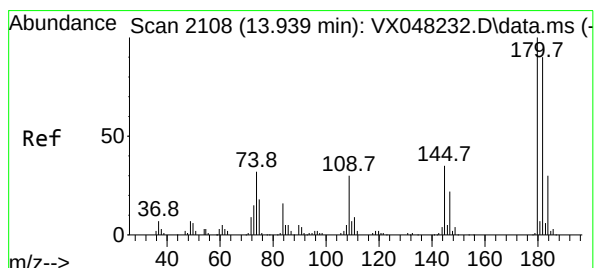
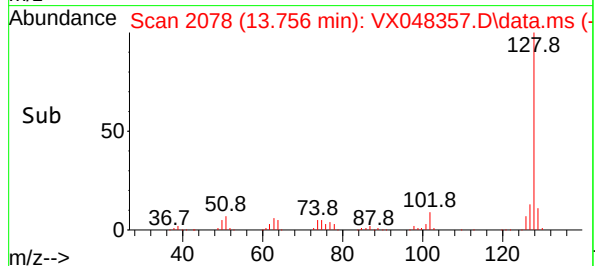
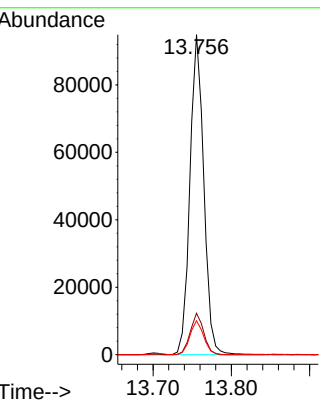
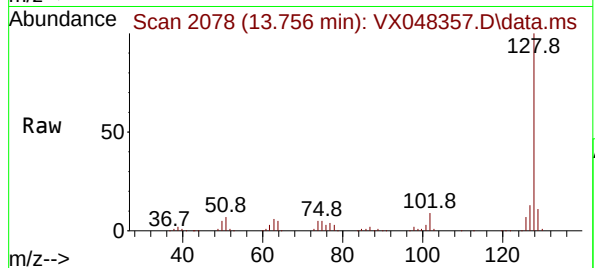
129 10.6 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#96

1,2,3-Trichlorobenzene

Concen: 18.417 ug/l

RT: 13.945 min Scan# 2109

Delta R.T. 0.006 min

Lab File: VX048357.D

Acq: 27 Oct 2025 10:04

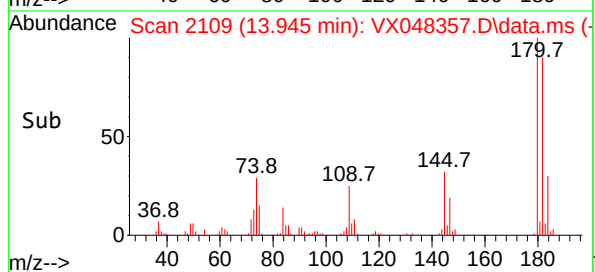
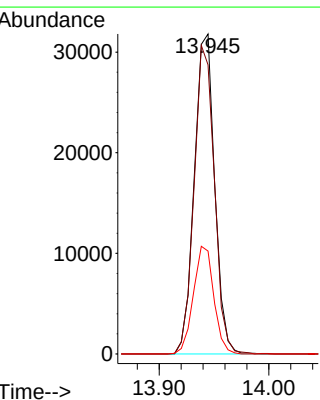
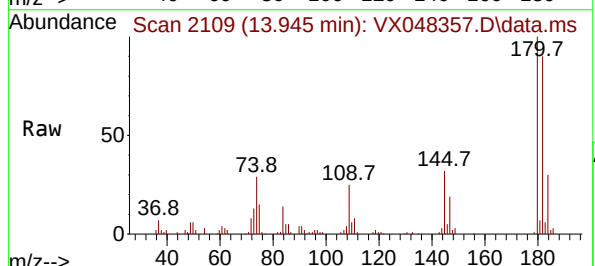
Tgt Ion:180 Resp: 40946

Ion Ratio Lower Upper

180 100

182 96.2 46.6 139.7

145 33.8 16.9 50.7



Report of Analysis

Client: Weston Solutions, Inc.
 Project: RFP 905
 Client Sample ID: VX1027WBSD01
 Lab Sample ID: VX1027WBSD01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level : LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3447
 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	27.5		1	0.26	5.00	ug/L	10/27/25 10:34	VX102725
75-35-4	1,1-Dichloroethene	20.8		1	0.23	5.00	ug/L	10/27/25 10:34	VX102725
78-93-3	2-Butanone	84.8		1	0.98	25.0	ug/L	10/27/25 10:34	VX102725
56-23-5	Carbon Tetrachloride	18.6		1	0.25	5.00	ug/L	10/27/25 10:34	VX102725
67-66-3	Chloroform	21.6		1	0.25	5.00	ug/L	10/27/25 10:34	VX102725
71-43-2	Benzene	20.4		1	0.15	5.00	ug/L	10/27/25 10:34	VX102725
107-06-2	1,2-Dichloroethane	21.1		1	0.22	5.00	ug/L	10/27/25 10:34	VX102725
79-01-6	Trichloroethene	19.5		1	0.090	5.00	ug/L	10/27/25 10:34	VX102725
127-18-4	Tetrachloroethene	20.4		1	0.23	5.00	ug/L	10/27/25 10:34	VX102725
108-90-7	Chlorobenzene	19.9		1	0.12	5.00	ug/L	10/27/25 10:34	VX102725
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	55.7			74 - 125	111%	SPK: 50		
1868-53-7	Dibromofluoromethane	42.2			75 - 124	84%	SPK: 50		
2037-26-5	Toluene-d8	50.0			86 - 113	100%	SPK: 50		
460-00-4	4-Bromofluorobenzene	49.6			77 - 121	99%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	132000							
540-36-3	1,4-Difluorobenzene	226000							
3114-55-4	Chlorobenzene-d5	201000							
3855-82-1	1,4-Dichlorobenzene-d4	97700							

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\VX102725\
 Data File : VX048358.D
 Acq On : 27 Oct 2025 10:34
 Operator : JC/MD
 Sample : VX1027WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1027WBSD01

Manual Integrations APPROVED

Reviewed By : John Carlone 10/28/2025
 Supervised By : Mahesh Dadoda 10/28/2025

Quant Time: Oct 28 01:48:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.532	168	131714	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.739	114	225739	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	200520	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.000	152	97723	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	102830	55.682	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	111.360%		
35) Dibromofluoromethane	5.367	113	65003	42.179	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	84.360%		
50) Toluene-d8	8.629	98	270338	50.046	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	100.100%		
62) 4-Bromofluorobenzene	11.061	95	102009	49.640	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	99.280%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	23928	17.672	ug/l	97
3) Chloromethane	1.301	50	13074	10.344	ug/l	99
4) Vinyl Chloride	1.380	62	32130	27.453	ug/l	98
5) Bromomethane	1.618	94	12620	15.889	ug/l	97
6) Chloroethane	1.697	64	20092	29.215	ug/l	98
7) Trichlorofluoromethane	1.898	101	52988	23.607	ug/l	100
8) Diethyl Ether	2.130	74	18878	29.891	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.337	101	29259	20.585	ug/l	98
10) Methyl Iodide	2.459	142	106571	59.642	ug/l	98
11) Tert butyl alcohol	2.934	59	14551	79.359	ug/l	99
12) 1,1-Dichloroethene	2.325	96	28803	20.829	ug/l	99
13) Acrolein	2.233	56	23036	123.185	ug/l	97
14) Allyl chloride	2.660	41	49858	21.717	ug/l	95
15) Acrylonitrile	3.050	53	64189	97.085	ug/l	97
16) Acetone	2.367	43	43596	68.814	ug/l	97
17) Carbon Disulfide	2.514	76	77105	17.692	ug/l	97
18) Methyl Acetate	2.697	43	27468	20.761	ug/l	99
19) Methyl tert-butyl Ether	3.099	73	101018	21.414	ug/l	100
20) Methylene Chloride	2.788	84	33021	21.391	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	30751	20.245	ug/l	92
22) Diisopropyl ether	3.745	45	112661	24.603	ug/l	93
23) Vinyl Acetate	3.709	43	396460	108.387	ug/l	99
24) 1,1-Dichloroethane	3.599	63	61948	22.373	ug/l	99
25) 2-Butanone	4.532	43	67977	84.771	ug/l	96
26) 2,2-Dichloropropane	4.459	77	54399	21.767	ug/l	96
27) cis-1,2-Dichloroethene	4.471	96	35859	20.228	ug/l	95
28) Bromochloromethane	4.879	49	25223	21.970	ug/l	100
29) Tetrahydrofuran	4.983	42	47457	98.817	ug/l	97
30) Chloroform	5.074	83	63934	21.613	ug/l	95
31) Cyclohexane	5.452	56	50252	21.922	ug/l	97
32) 1,1,1-Trichloroethane	5.367	97	57204	20.982	ug/l	98
36) 1,1-Dichloropropene	5.678	75	41298	18.854	ug/l	99
37) Ethyl Acetate	4.690	43	34501	19.003	ug/l	96
38) Carbon Tetrachloride	5.660	117	50288	18.609	ug/l	97
39) Methylcyclohexane	7.360	83	51325	19.841	ug/l	96
40) Benzene	6.019	78	129873	20.422	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
 Data File : VX048358.D
 Acq On : 27 Oct 2025 10:34
 Operator : JC/MD
 Sample : VX1027WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1027WBSD01

Manual Integrations APPROVED

Reviewed By : John Carlone 10/28/2025
 Supervised By : Mahesh Dadoda 10/28/2025

Quant Time: Oct 28 01:48:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.891	41	19069	20.000	ug/l	97
42) 1,2-Dichloroethane	6.068	62	49429	21.063	ug/l	99
43) Isopropyl Acetate	6.318	43	61550	20.639	ug/l	99
44) Trichloroethene	7.104	130	32785	19.524	ug/l	84
45) 1,2-Dichloropropane	7.409	63	32738	21.652	ug/l	97
46) Dibromomethane	7.562	93	22802	19.357	ug/l	97
47) Bromodichloromethane	7.799	83	51499	20.248	ug/l #	99
48) Methyl methacrylate	7.671	41	30560	20.307	ug/l	97
49) 1,4-Dioxane	7.641	88	6465	325.176	ug/l	98
51) 4-Methyl-2-Pentanone	8.555	43	169748	98.720	ug/l	99
52) Toluene	8.702	92	80584	19.946	ug/l	99
53) t-1,3-Dichloropropene	8.958	75	48247	19.685	ug/l	100
54) cis-1,3-Dichloropropene	8.348	75	51662	19.536	ug/l	98
55) 1,1,2-Trichloroethane	9.135	97	30438	20.259	ug/l	93
56) Ethyl methacrylate	9.098	69	41803	19.023	ug/l	96
57) 1,3-Dichloropropane	9.293	76	52274	20.369	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.226	63	111299	95.249	ug/l	99
59) 2-Hexanone	9.415	43	111918	93.344	ug/l	97
60) Dibromochloromethane	9.500	129	37622	18.631	ug/l	99
61) 1,2-Dibromoethane	9.592	107	30556	19.077	ug/l	98
64) Tetrachloroethene	9.256	164	30516	20.386	ug/l	98
65) Chlorobenzene	10.061	112	89607	19.865	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.147	131	31740	19.158	ug/l	100
67) Ethyl Benzene	10.177	91	151002	19.662	ug/l	99
68) m/p-Xylenes	10.281	106	115593	40.510	ug/l	99
69) o-Xylene	10.622	106	54110	19.642	ug/l	99
70) Styrene	10.640	104	95127	20.280	ug/l	99
71) Bromoform	10.781	173	22211	16.774	ug/l #	99
73) Isopropylbenzene	10.945	105	145535	20.390	ug/l	100
74) N-amyl acetate	10.823	43	53882	21.282	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.195	83	36758	18.858	ug/l	100
76) 1,2,3-Trichloropropane	11.220	75	28839m	18.198	ug/l	
77) Bromobenzene	11.177	156	34842	19.468	ug/l	98
78) n-propylbenzene	11.287	91	174843	21.157	ug/l	99
79) 2-Chlorotoluene	11.348	91	106955	21.346	ug/l	98
80) 1,3,5-Trimethylbenzene	11.433	105	121421	20.556	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	8614	13.224	ug/l #	63
82) 4-Chlorotoluene	11.433	91	123759	20.807	ug/l	100
83) tert-Butylbenzene	11.695	119	123407	20.334	ug/l	100
84) 1,2,4-Trimethylbenzene	11.732	105	121926	20.683	ug/l	99
85) sec-Butylbenzene	11.872	105	152817	20.929	ug/l	98
86) p-Isopropyltoluene	11.988	119	129074	20.452	ug/l	98
87) 1,3-Dichlorobenzene	11.951	146	65998	19.561	ug/l	98
88) 1,4-Dichlorobenzene	12.024	146	67168	19.217	ug/l	98
89) n-Butylbenzene	12.311	91	118188	20.574	ug/l	100
90) Hexachloroethane	12.518	117	22484	18.040	ug/l	100
91) 1,2-Dichlorobenzene	12.317	146	63922	20.179	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.927	75	7375	18.640	ug/l	88
93) 1,2,4-Trichlorobenzene	13.567	180	40755	19.025	ug/l	98
94) Hexachlorobutadiene	13.707	225	17987	22.444	ug/l	96
95) Naphthalene	13.756	128	104899	18.483	ug/l	100
96) 1,2,3-Trichlorobenzene	13.939	180	38923	19.800	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
Data File : VX048358.D
Acq On : 27 Oct 2025 10:34
Operator : JC/MD
Sample : VX1027WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 28 01:48:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025

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

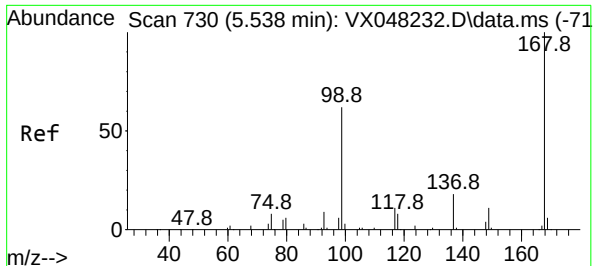
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025





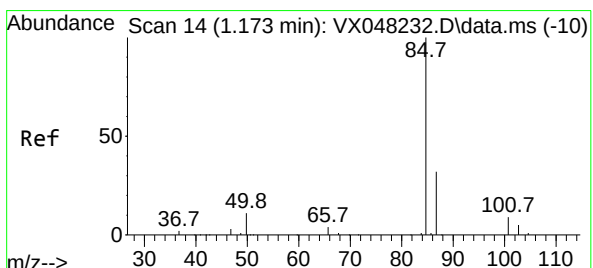
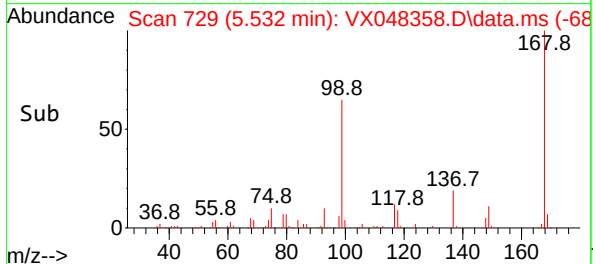
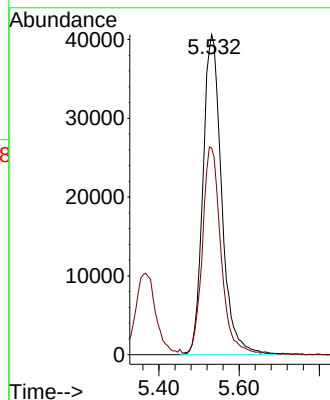
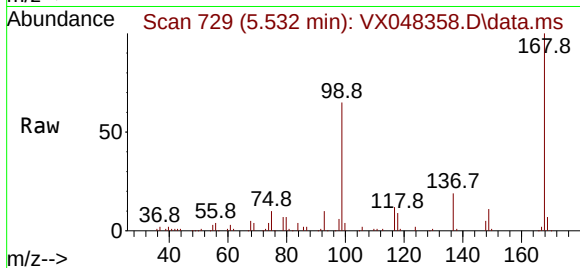
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01

Tgt Ion:168 Resp: 131714
Ion Ratio Lower Upper
168 100
99 64.4 46.4 69.6

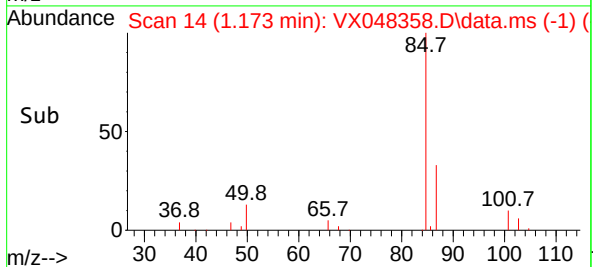
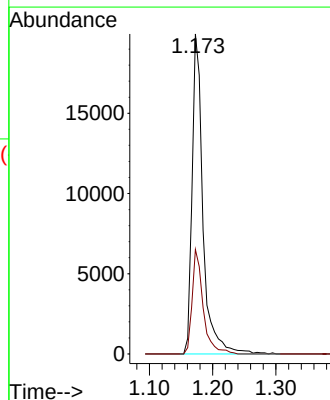
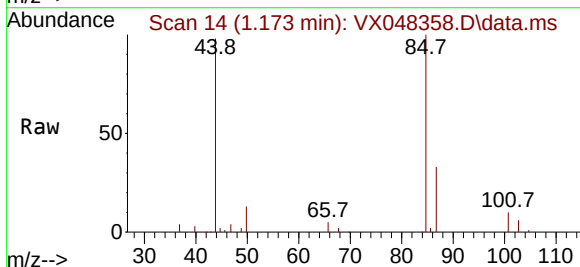
Manual Integrations
APPROVED

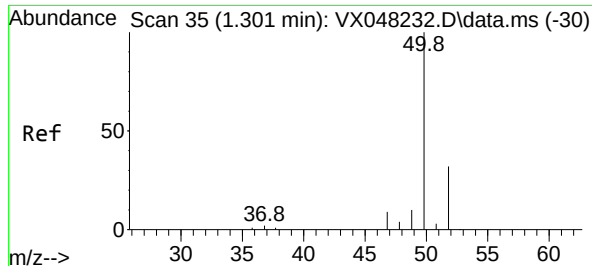
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#2
Dichlorodifluoromethane
Concen: 17.672 ug/l
RT: 1.173 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Tgt Ion: 85 Resp: 23928
Ion Ratio Lower Upper
85 100
87 32.2 15.3 45.9





#3

Chloromethane

Concen: 10.344 ug/l

RT: 1.301 min Scan# 35

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion: 50 Resp: 13074

Ion Ratio Lower Upper

50 100

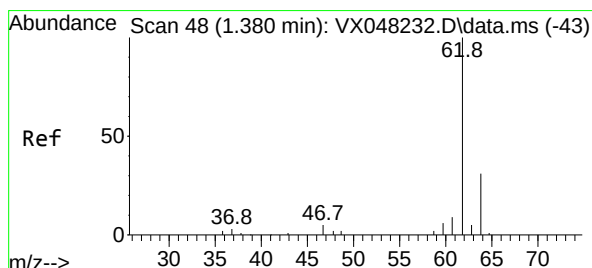
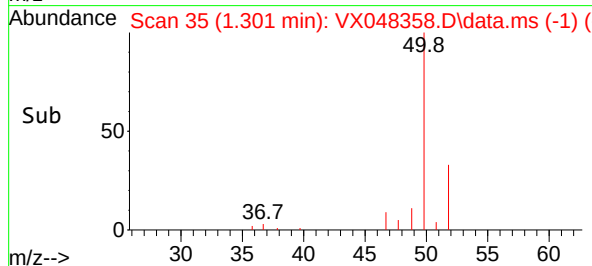
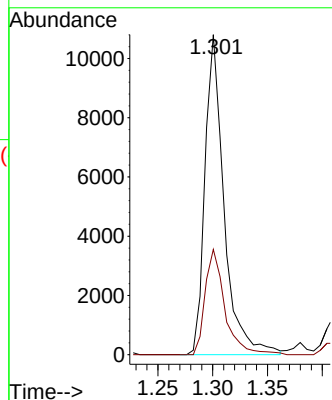
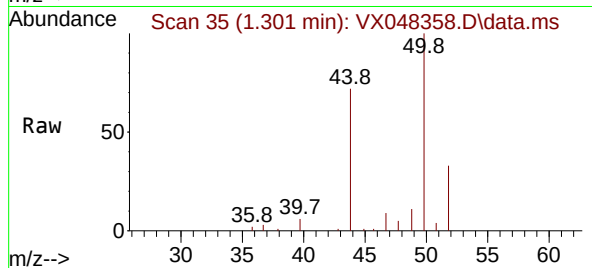
52 32.9 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#4

Vinyl Chloride

Concen: 27.453 ug/l

RT: 1.380 min Scan# 48

Delta R.T. -0.000 min

Lab File: VX048358.D

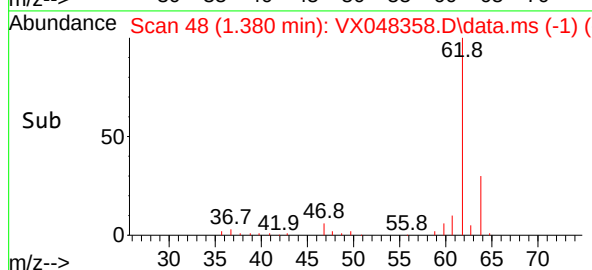
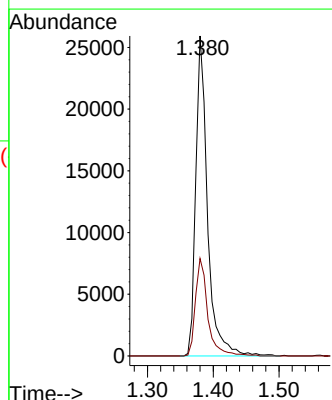
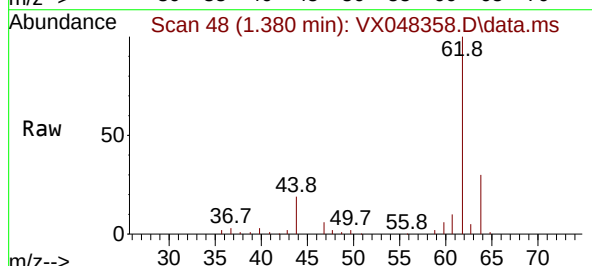
Acq: 27 Oct 2025 10:34

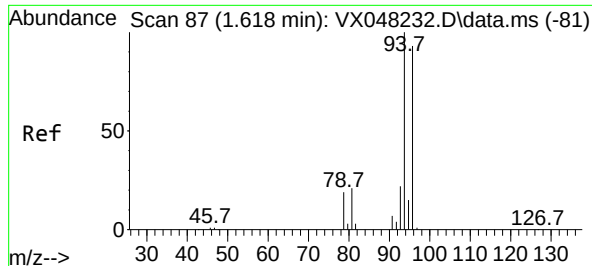
Tgt Ion: 62 Resp: 32130

Ion Ratio Lower Upper

62 100

64 30.5 25.1 37.7





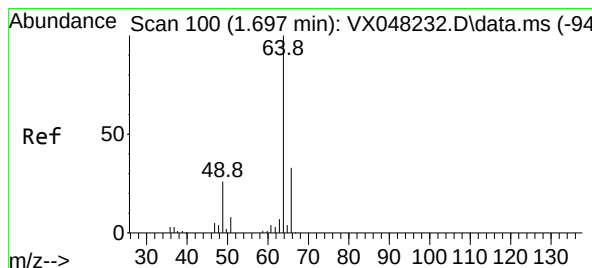
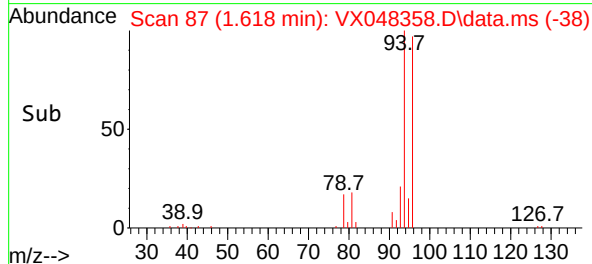
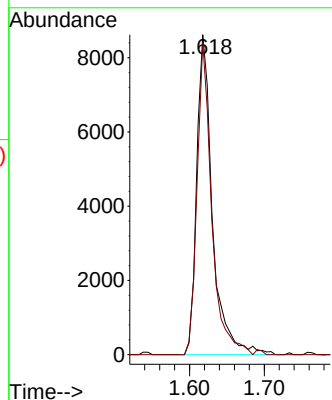
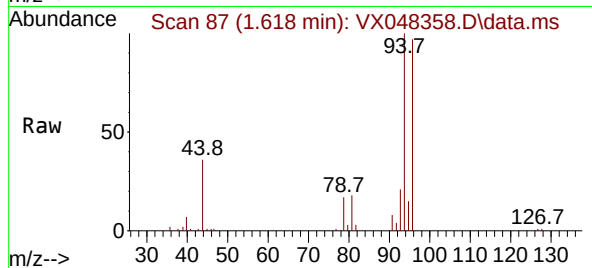
#5
Bromomethane
Concen: 15.889 ug/l
RT: 1.618 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01

Tgt Ion: 94 Resp: 12620
Ion Ratio Lower Upper
94 100
96 97.4 76.0 114.0

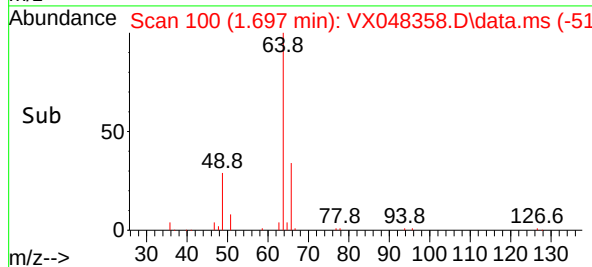
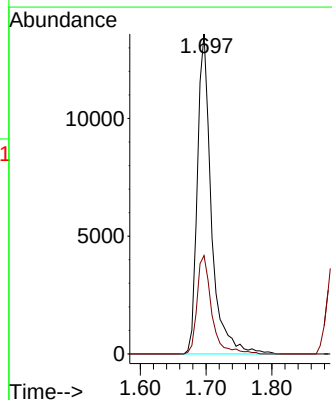
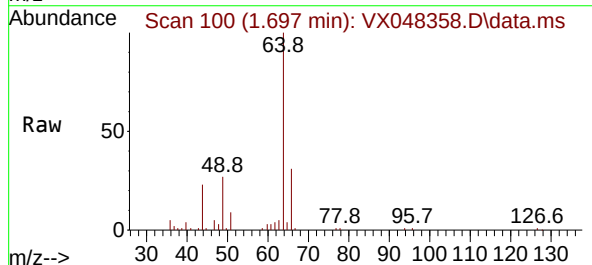
Manual Integrations
APPROVED

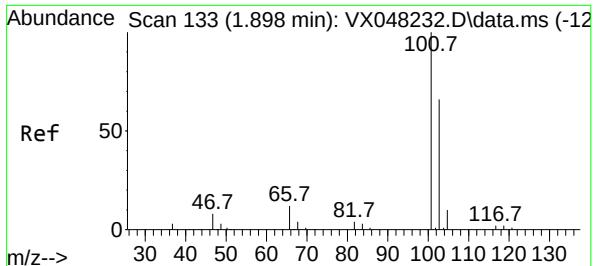
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#6
Chloroethane
Concen: 29.215 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Tgt Ion: 64 Resp: 20092
Ion Ratio Lower Upper
64 100
66 30.7 23.9 35.9





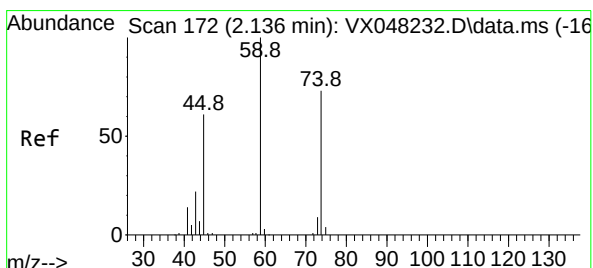
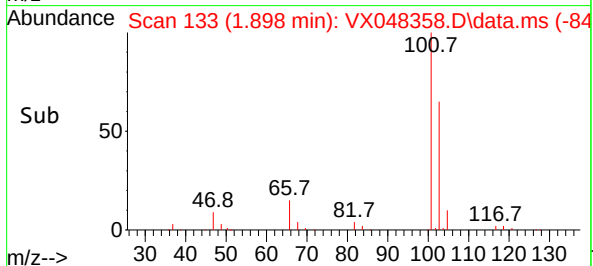
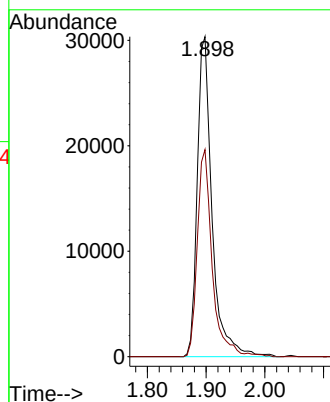
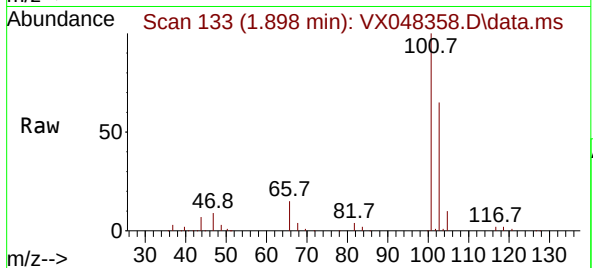
#7
Trichlorofluoromethane
Concen: 23.607 ug/l
RT: 1.898 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01

Tgt Ion:101 Resp: 5298
Ion Ratio Lower Upper
101 100
103 64.7 51.6 77.4

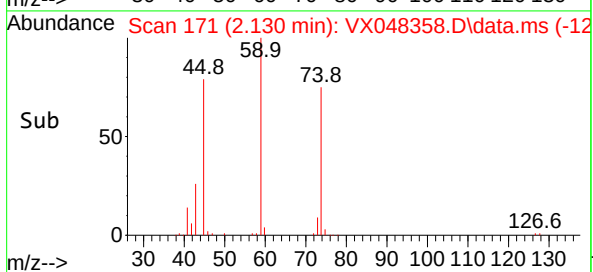
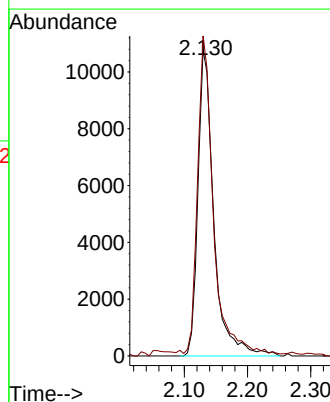
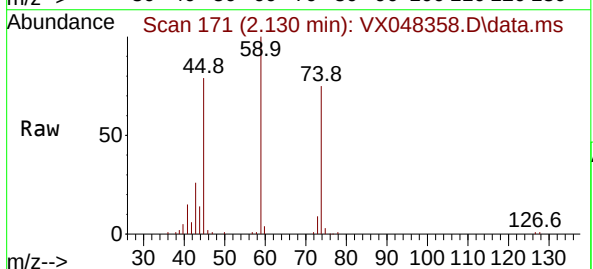
Manual Integrations
APPROVED

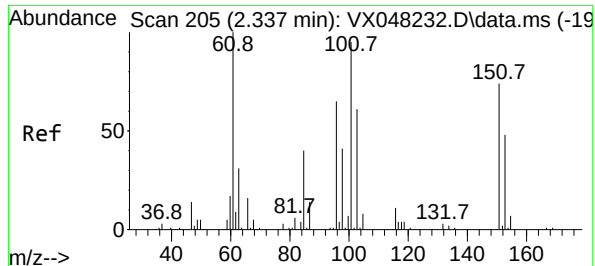
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#8
Diethyl Ether
Concen: 29.891 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Tgt Ion: 74 Resp: 18878
Ion Ratio Lower Upper
74 100
45 104.3 50.0 149.8





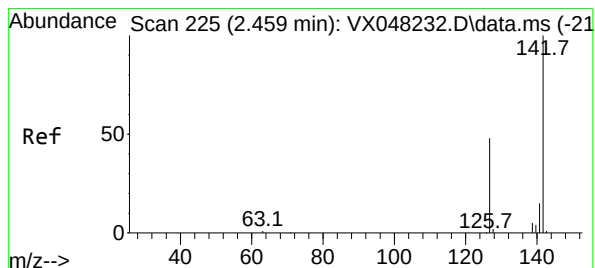
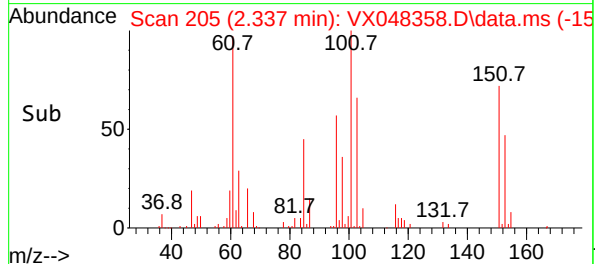
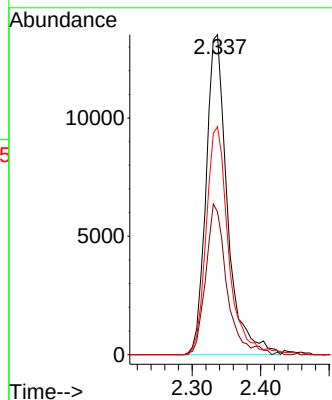
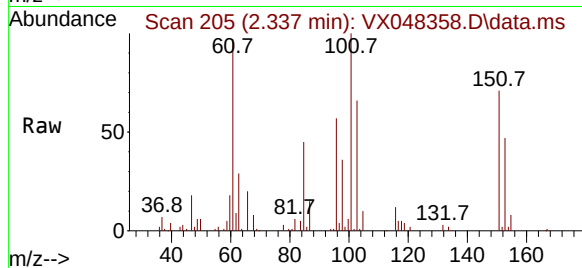
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.585 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01

Tgt Ion:101 Resp: 2925
Ion Ratio Lower Upper
101 100
85 46.5 35.6 53.4
151 73.3 58.0 87.0

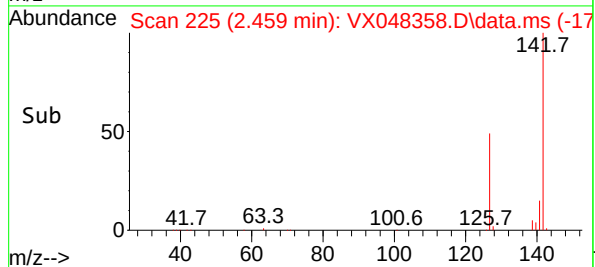
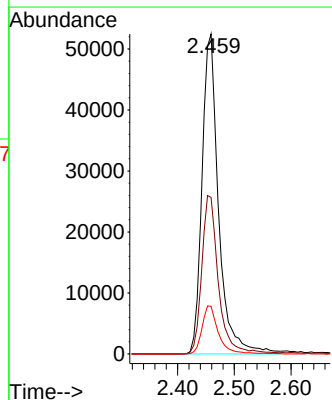
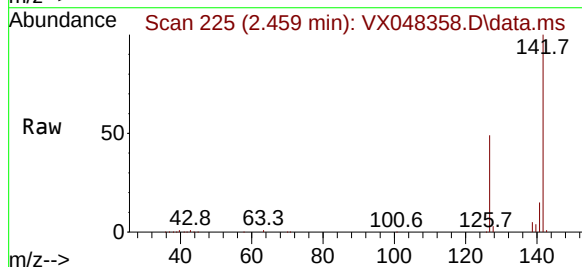
Manual Integrations
APPROVED

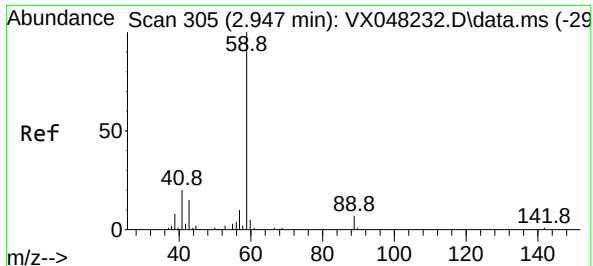
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#10
Methyl Iodide
Concen: 59.642 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Tgt Ion:142 Resp: 106571
Ion Ratio Lower Upper
142 100
127 49.6 38.5 57.7
141 14.9 11.6 17.4





#11

Tert butyl alcohol

Concen: 79.359 ug/l

RT: 2.934 min Scan# 305

Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion: 59 Resp: 1455

Ion Ratio Lower Upper

59 100

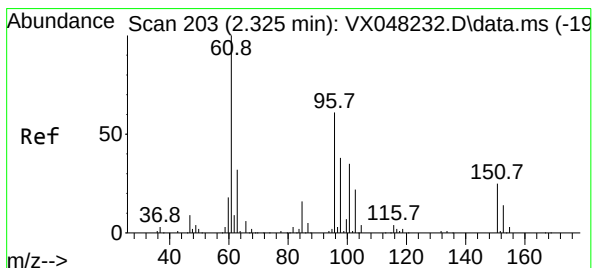
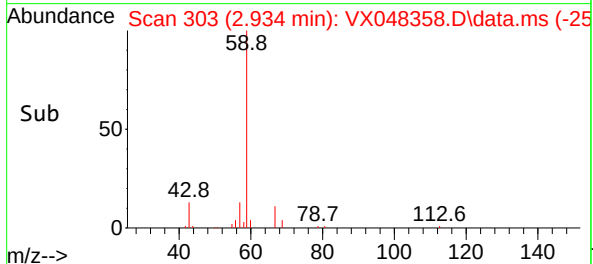
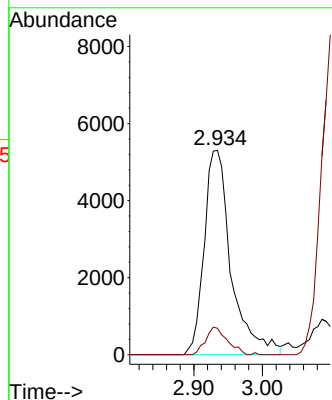
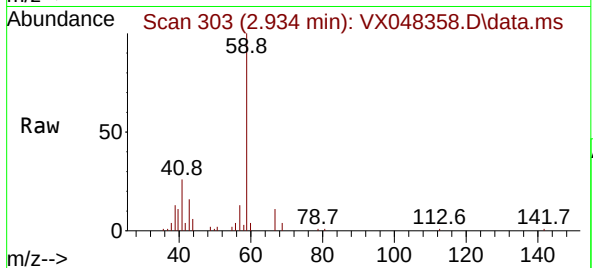
57 10.7 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#12

1,1-Dichloroethene

Concen: 20.829 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

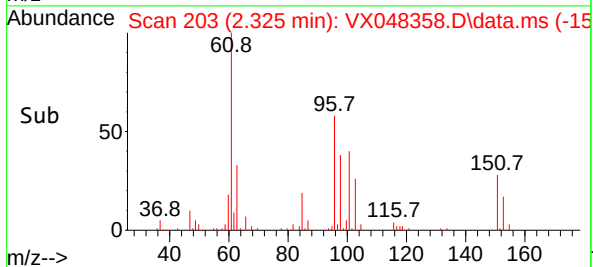
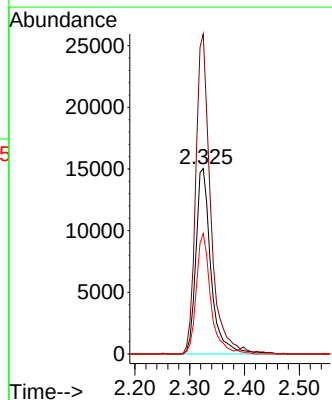
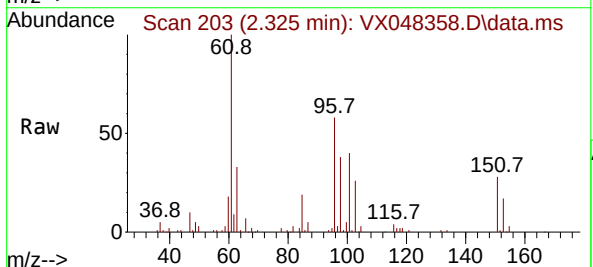
Tgt Ion: 96 Resp: 28803

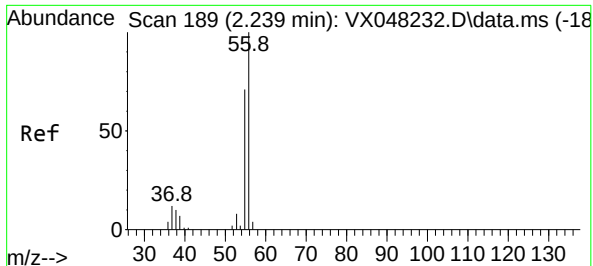
Ion Ratio Lower Upper

96 100

61 172.6 139.0 208.6

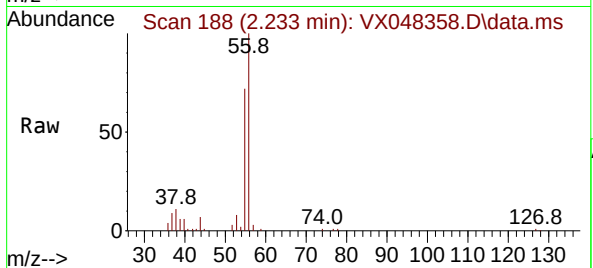
98 65.0 52.4 78.6





#13
Acrolein
Concen: 123.185 ug/l
RT: 2.233 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

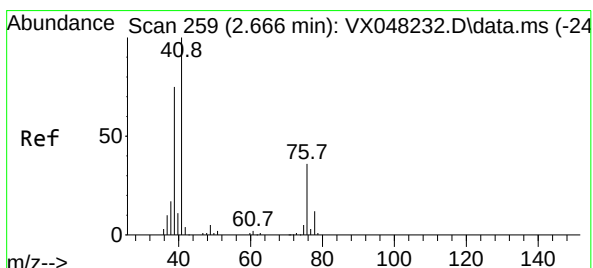
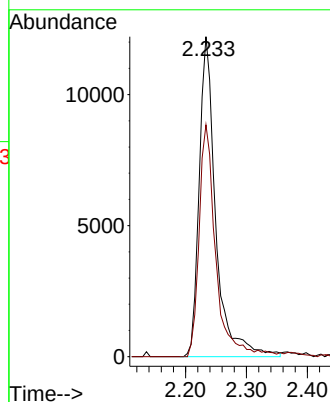
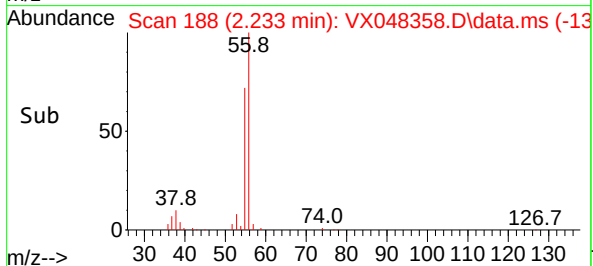
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01



Tgt Ion: 56 Resp: 2303
Ion Ratio Lower Upper
56 100
55 73.0 56.1 84.1

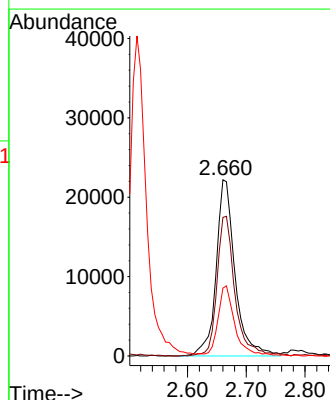
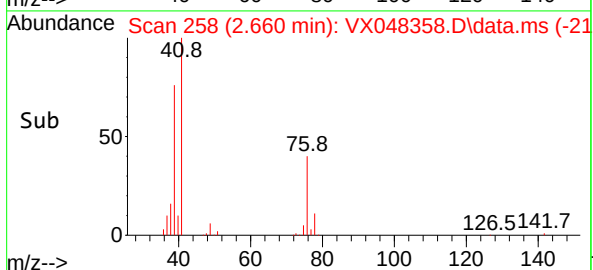
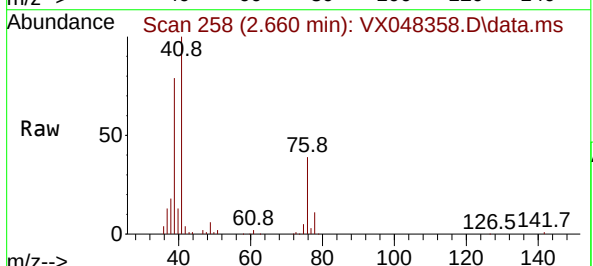
Manual Integrations
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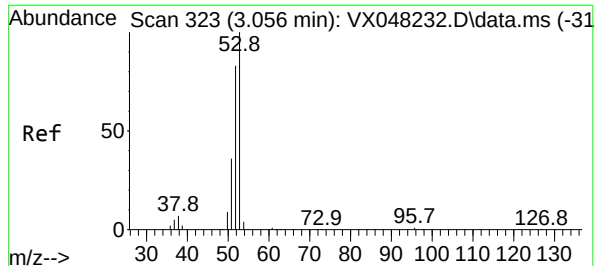
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#14
Allyl chloride
Concen: 21.717 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.006 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

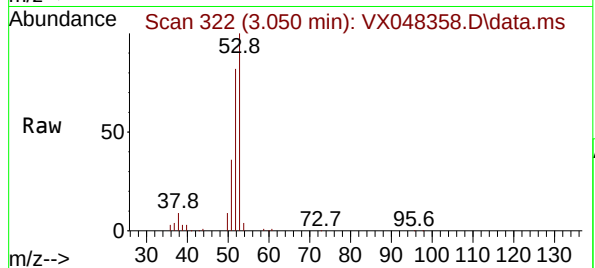
Tgt Ion: 41 Resp: 49858
Ion Ratio Lower Upper
41 100
39 75.4 56.0 84.0
76 34.6 27.5 41.3





#15
Acrylonitrile
Concen: 97.085 ug/l
RT: 3.050 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

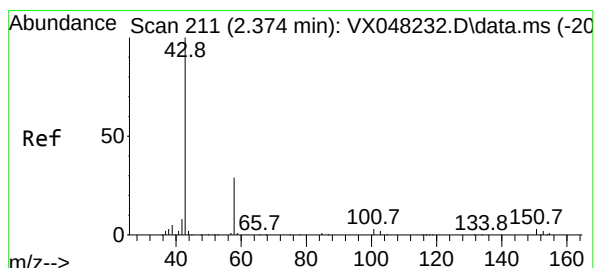
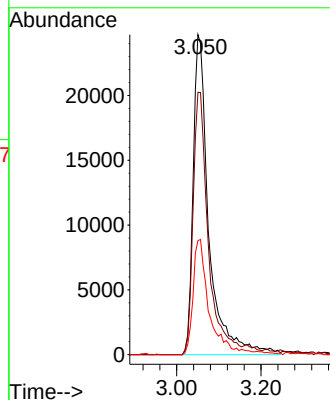
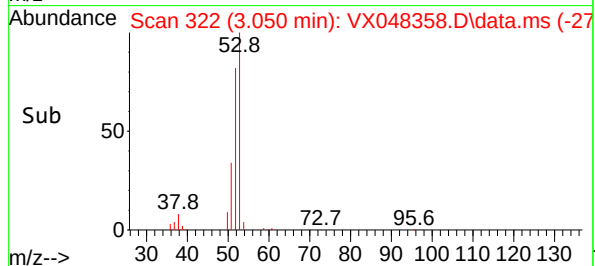
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01



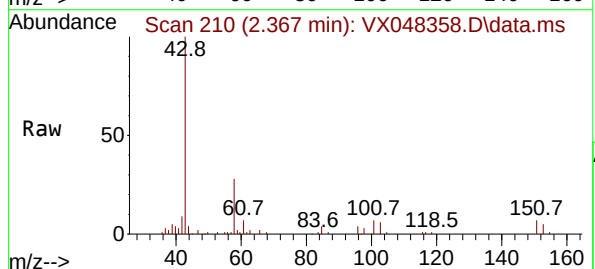
Tgt Ion: 53 Resp: 64189
Ion Ratio Lower Upper
53 100
52 78.9 66.1 99.1
51 36.8 29.0 43.4

Manual Integrations
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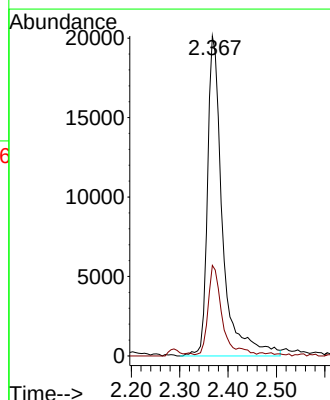
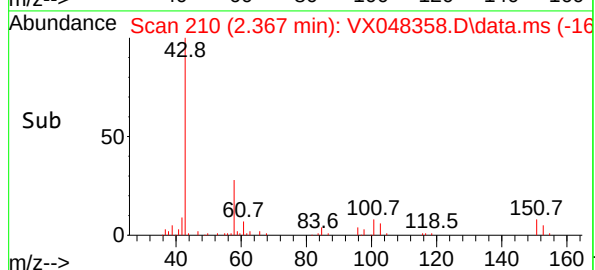
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025

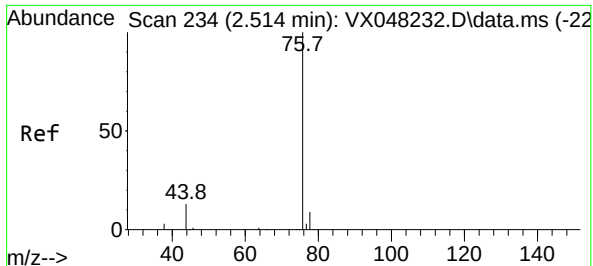


#16
Acetone
Concen: 68.814 ug/l
RT: 2.367 min Scan# 210
Delta R.T. -0.006 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34



Tgt Ion: 43 Resp: 43596
Ion Ratio Lower Upper
43 100
58 27.6 23.4 35.2





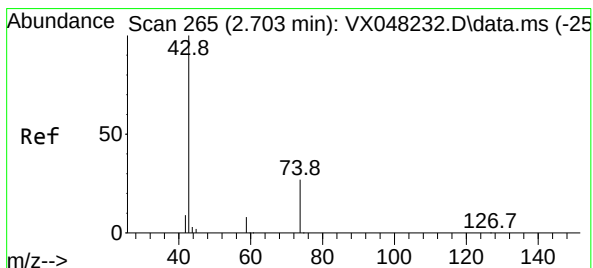
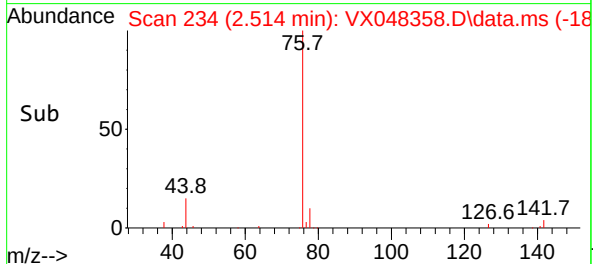
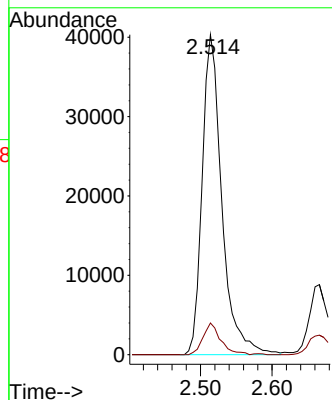
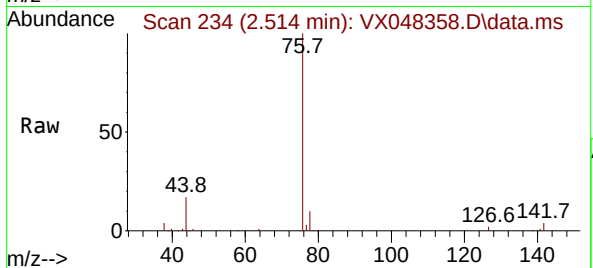
#17
Carbon Disulfide
Concen: 17.692 ug/l
RT: 2.514 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01

Tgt Ion: 76 Resp: 7710
Ion Ratio Lower Upper
76 100
78 10.1 7.1 10.7

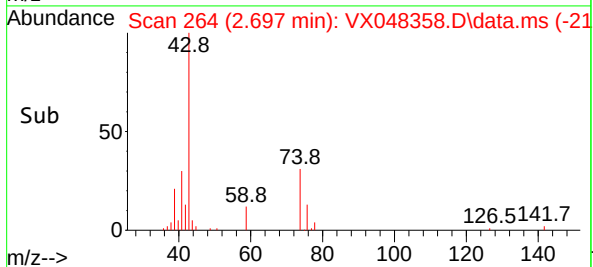
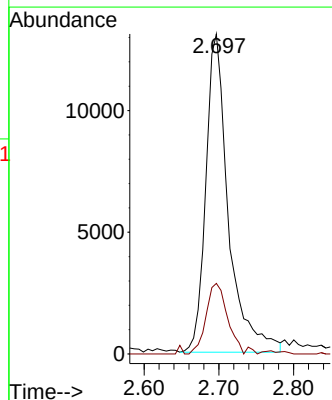
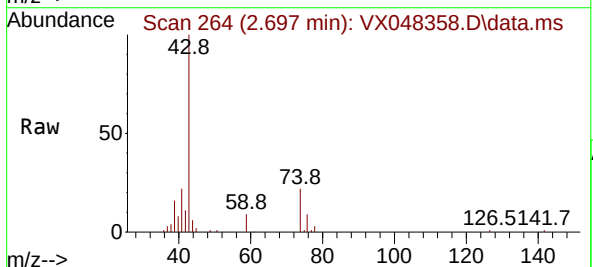
Manual Integrations
APPROVED

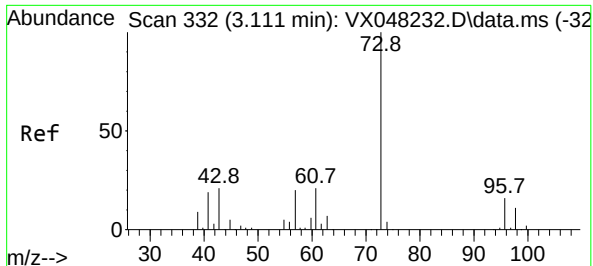
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#18
Methyl Acetate
Concen: 20.761 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Tgt Ion: 43 Resp: 27468
Ion Ratio Lower Upper
43 100
74 21.4 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 21.414 ug/l

RT: 3.099 min Scan# 332

Delta R.T. -0.012 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion: 73 Resp: 101018

Ion Ratio Lower Upper

73 100

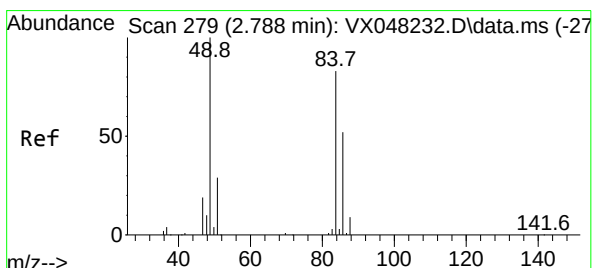
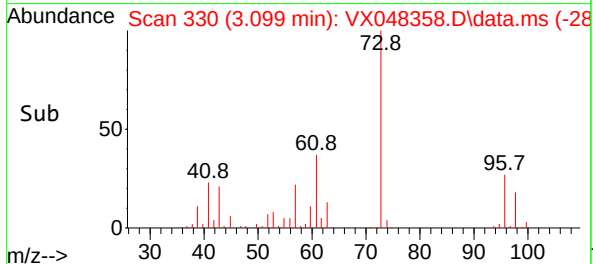
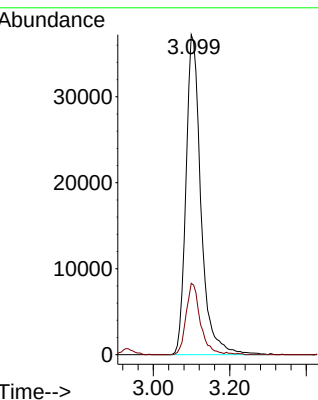
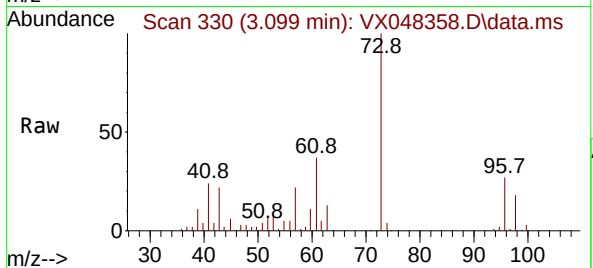
57 22.3 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#20

Methylene Chloride

Concen: 21.391 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Tgt Ion: 84 Resp: 33021

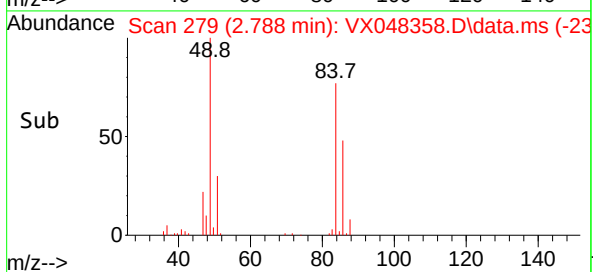
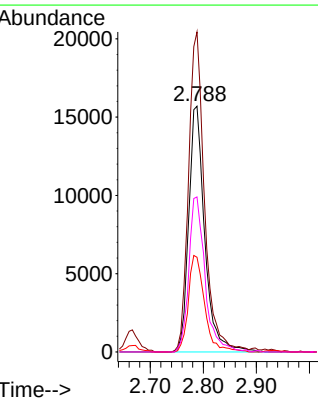
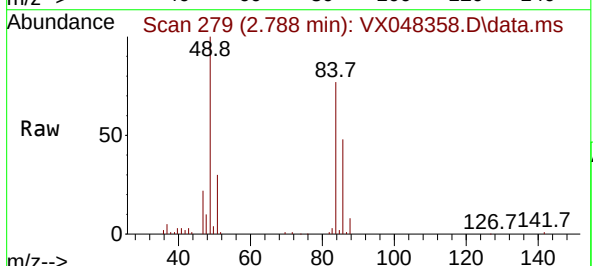
Ion Ratio Lower Upper

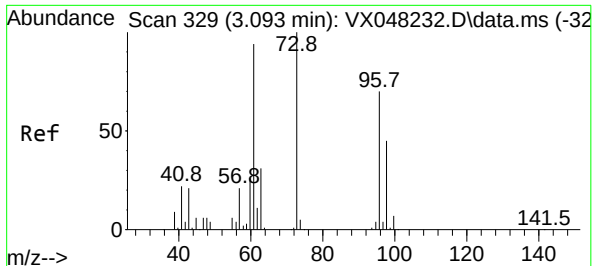
84 100

49 130.2 104.1 156.1

51 38.5 31.3 46.9

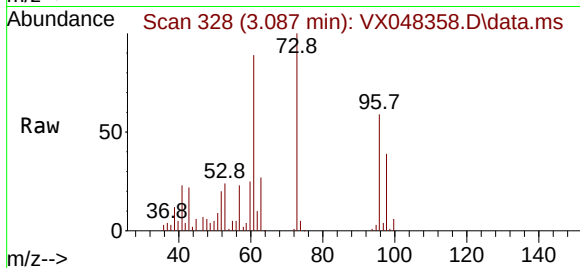
86 63.1 51.3 76.9





#21
trans-1,2-Dichloroethene
Concen: 20.245 ug/l
RT: 3.087 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

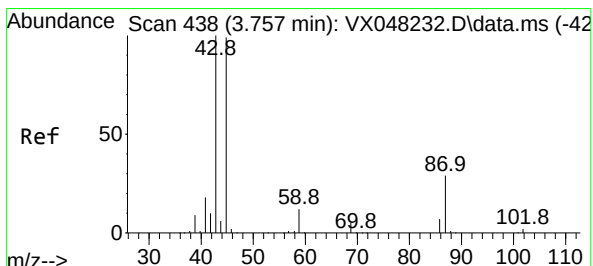
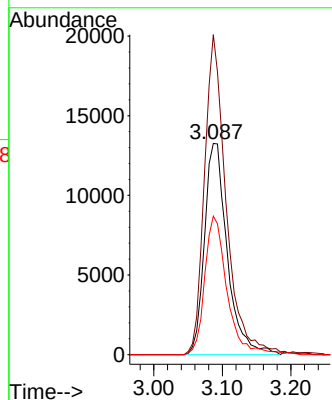
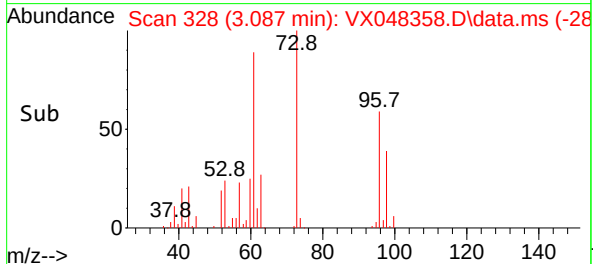
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01



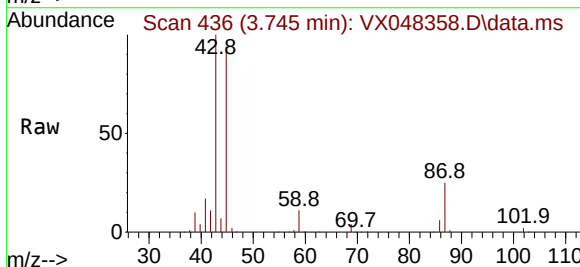
Tgt Ion: 96 Resp: 3075
Ion Ratio Lower Upper
96 100
61 151.5 111.9 167.9
98 67.1 51.2 76.8

Manual Integrations
APPROVED

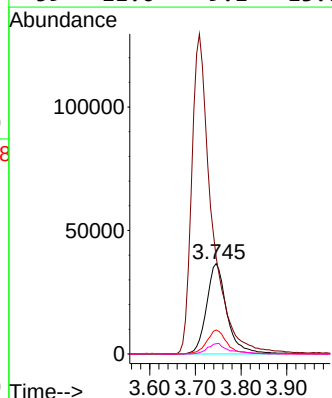
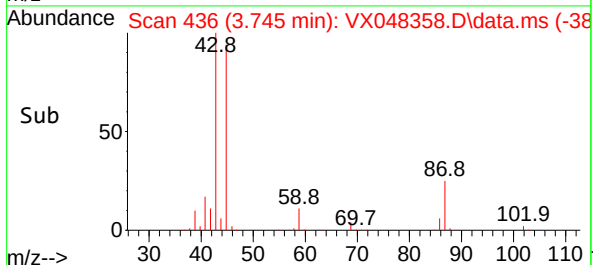
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025

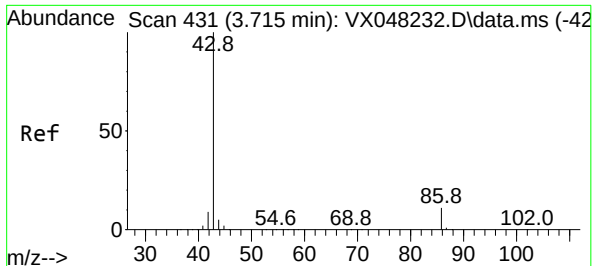


#22
Diisopropyl ether
Concen: 24.603 ug/l
RT: 3.745 min Scan# 436
Delta R.T. -0.006 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34



Tgt Ion: 45 Resp: 112661
Ion Ratio Lower Upper
45 100
43 102.8 89.8 134.8
87 26.5 20.6 31.0
59 11.6 9.1 13.7





#23

Vinyl Acetate

Concen: 108.387 ug/l

RT: 3.709 min Scan# 411

Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion: 43 Resp: 396460

Ion Ratio Lower Upper

43 100

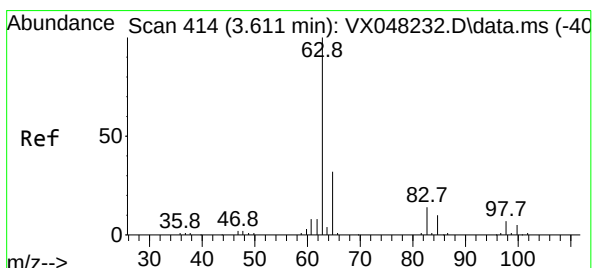
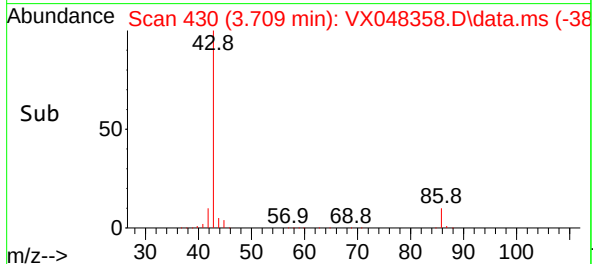
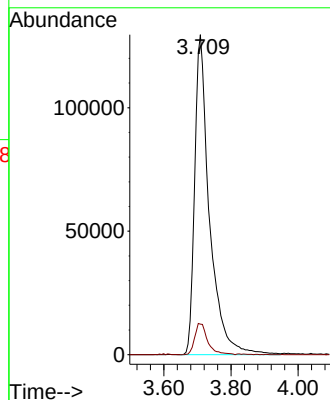
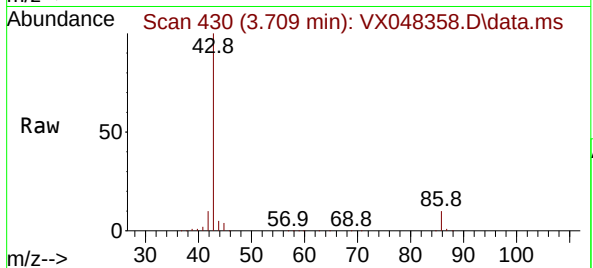
86 9.6 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#24

1,1-Dichloroethane

Concen: 22.373 ug/l

RT: 3.599 min Scan# 412

Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

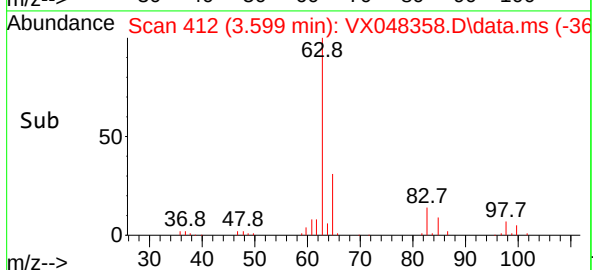
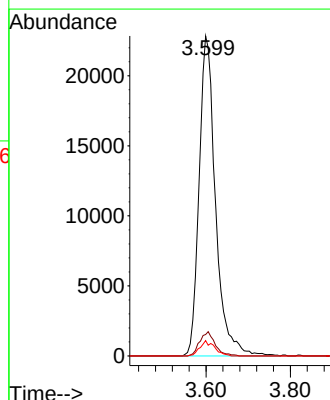
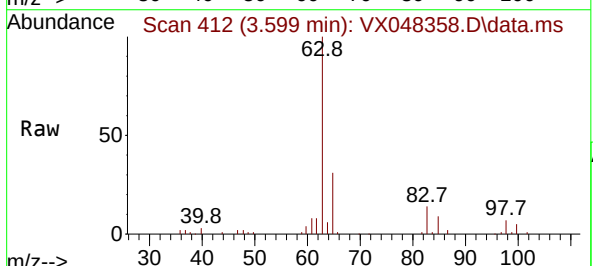
Tgt Ion: 63 Resp: 61948

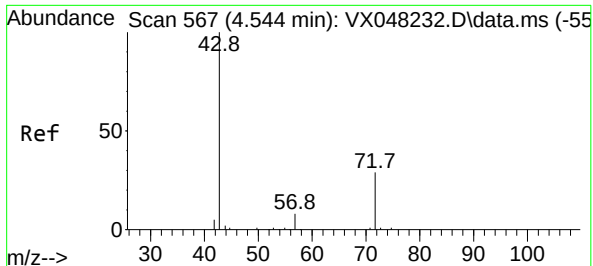
Ion Ratio Lower Upper

63 100

98 6.7 3.5 10.6

100 4.8 2.1 6.3





#25

2-Butanone

Concen: 84.771 ug/l

RT: 4.532 min Scan# 50

Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion: 43 Resp: 6797

Ion Ratio Lower Upper

43 100

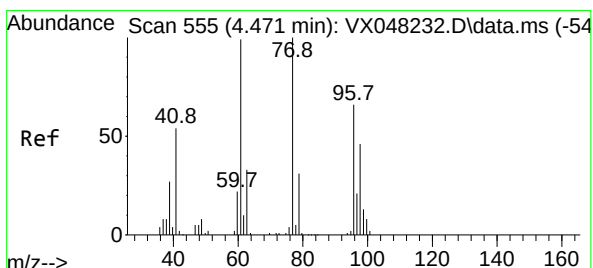
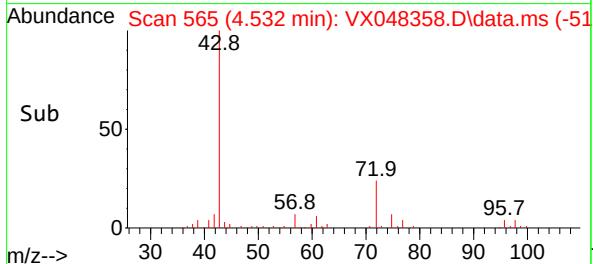
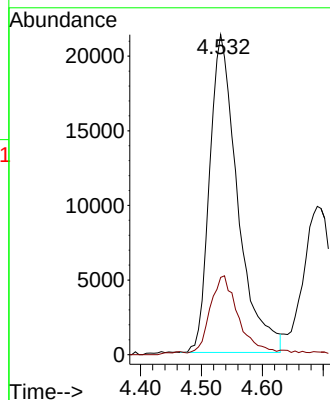
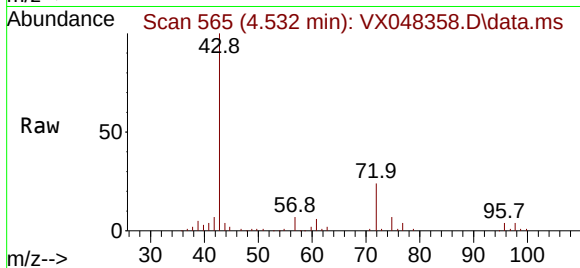
72 23.1 19.9 29.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#26

2,2-Dichloropropane

Concen: 21.767 ug/l

RT: 4.459 min Scan# 553

Delta R.T. -0.006 min

Lab File: VX048358.D

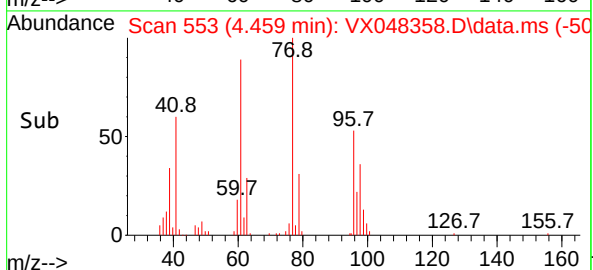
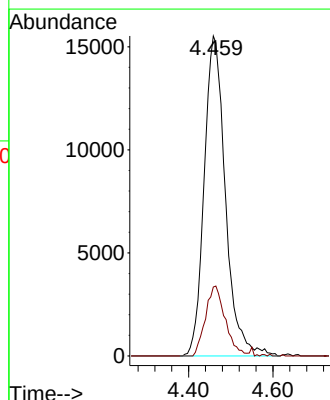
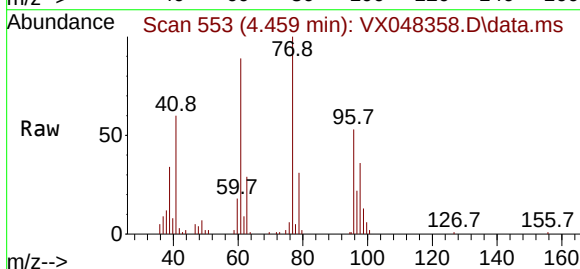
Acq: 27 Oct 2025 10:34

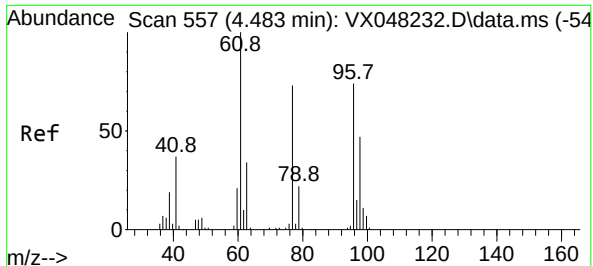
Tgt Ion: 77 Resp: 54399

Ion Ratio Lower Upper

77 100

97 20.4 11.1 33.3





#27

cis-1,2-Dichloroethene

Concen: 20.228 ug/l

RT: 4.471 min Scan# 51

Delta R.T. -0.012 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion: 96 Resp: 3585

Ion Ratio Lower Upper

96 100

61 156.1 0.0 294.2

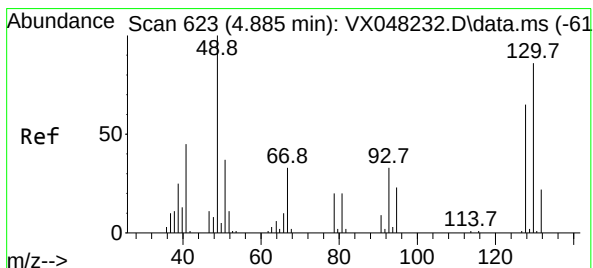
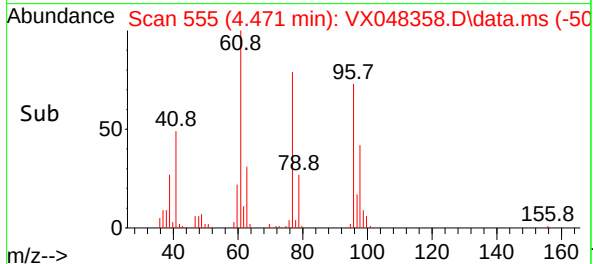
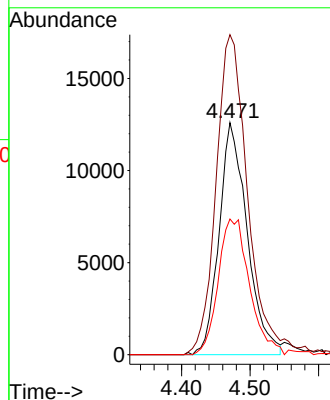
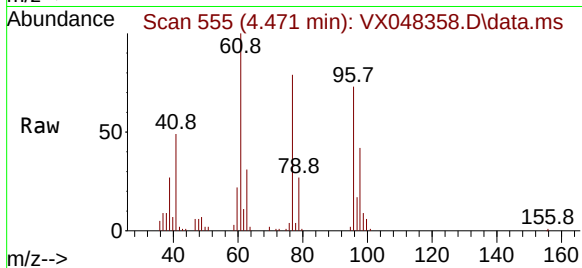
98 65.2 0.0 128.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#28

Bromochloromethane

Concen: 21.970 ug/l

RT: 4.879 min Scan# 622

Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

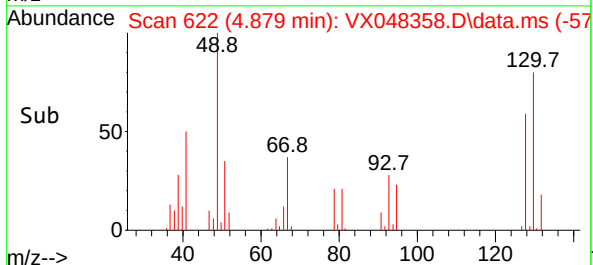
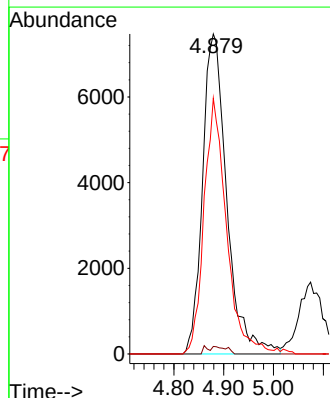
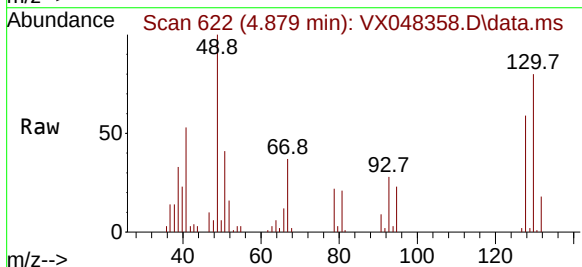
Tgt Ion: 49 Resp: 25223

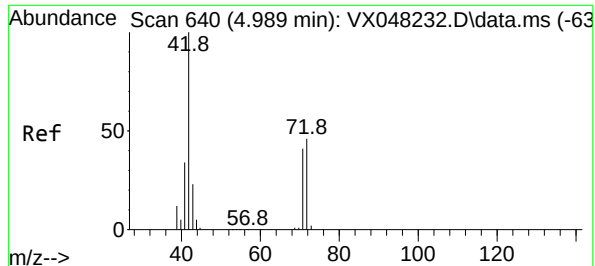
Ion Ratio Lower Upper

49 100

129 1.4 0.0 4.4

130 73.9 59.3 88.9





#29

Tetrahydrofuran

Concen: 98.817 ug/l

RT: 4.983 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

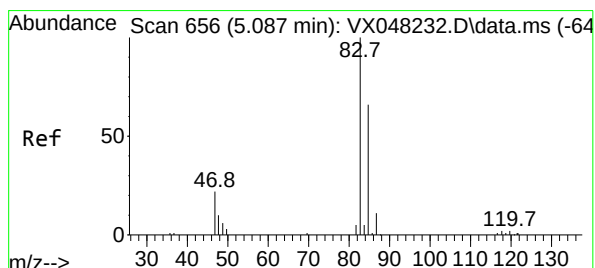
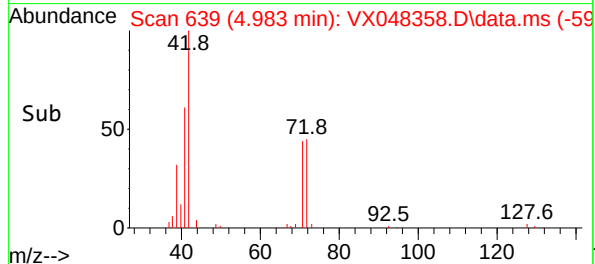
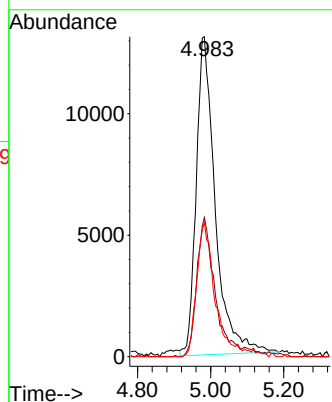
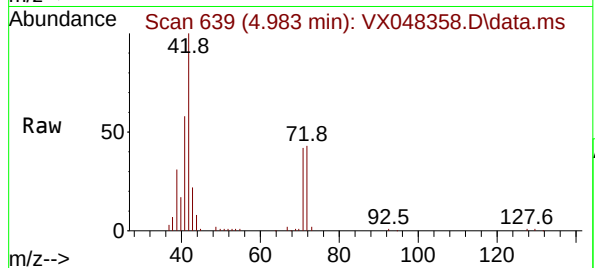
Tgt Ion:	42	Resp:	4745
Ion Ratio	Lower	Upper	
42	100		
72	41.7	35.3	52.9
71	41.7	32.2	48.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#30

Chloroform

Concen: 21.613 ug/l

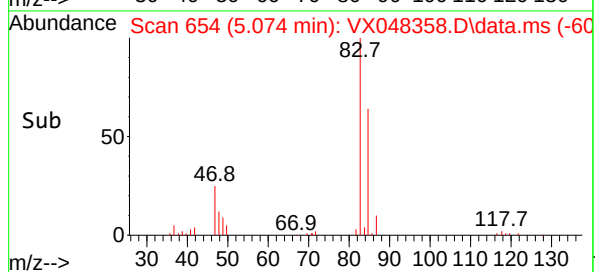
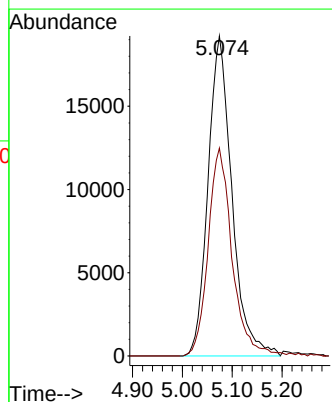
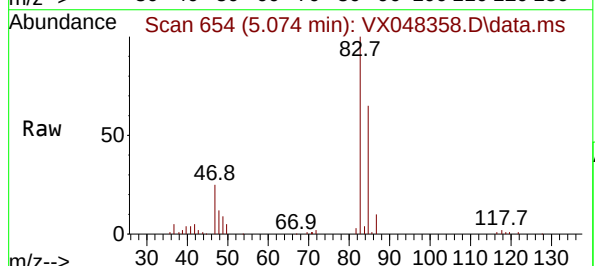
RT: 5.074 min Scan# 654

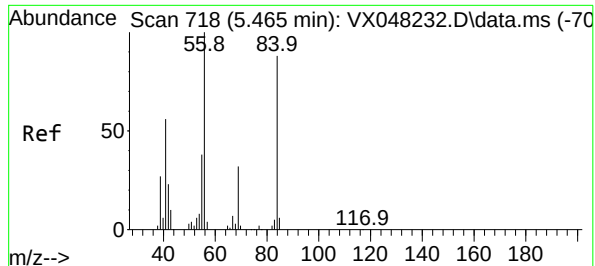
Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Tgt Ion:	83	Resp:	63934
Ion Ratio	Lower	Upper	
83	100		
85	66.1	50.1	75.1





#31

Cyclohexane

Concen: 21.922 ug/l

RT: 5.452 min Scan# 716

Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion: 56 Resp: 5025

Ion Ratio Lower Upper

56 100

69 31.4 23.0 34.6

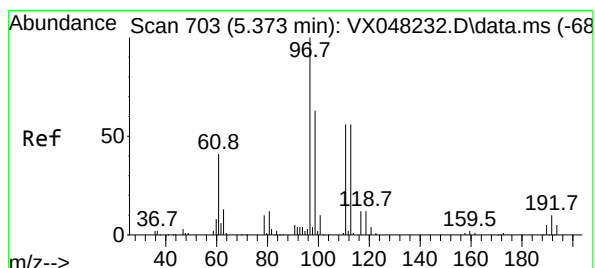
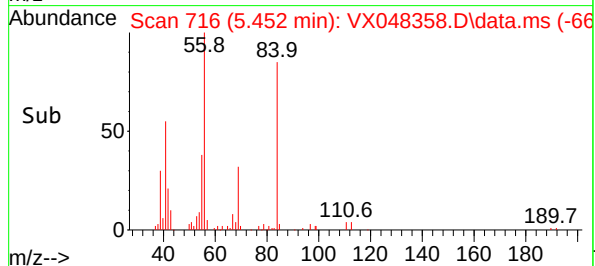
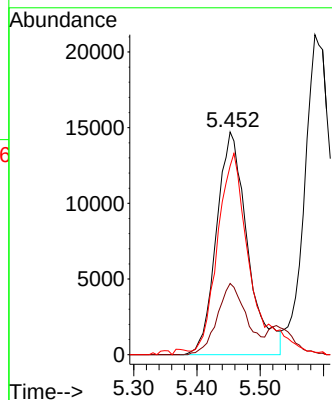
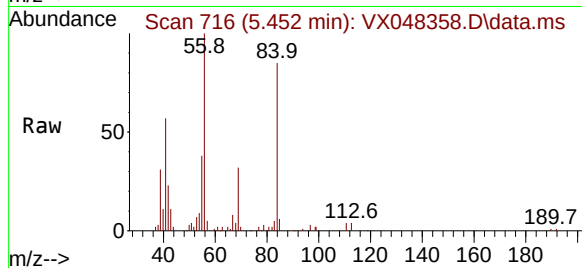
84 82.4 64.6 97.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#32

1,1,1-Trichloroethane

Concen: 20.982 ug/l

RT: 5.367 min Scan# 702

Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

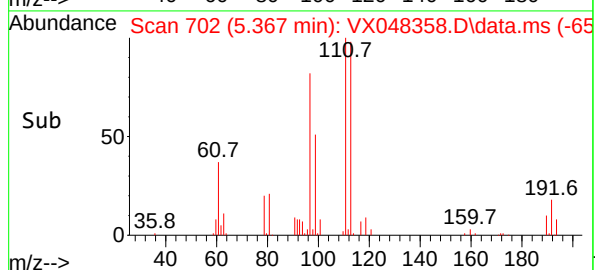
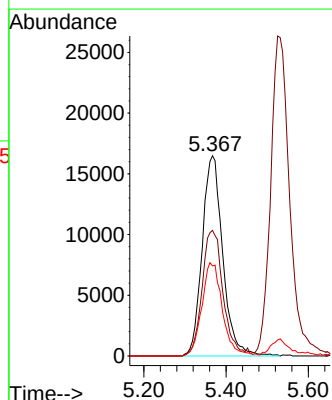
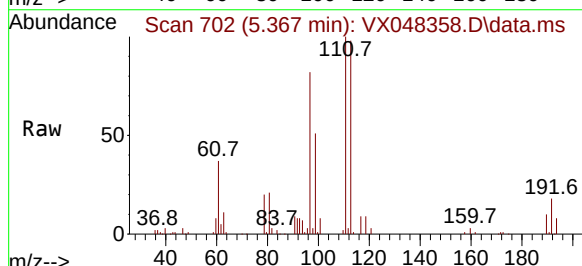
Tgt Ion: 97 Resp: 57204

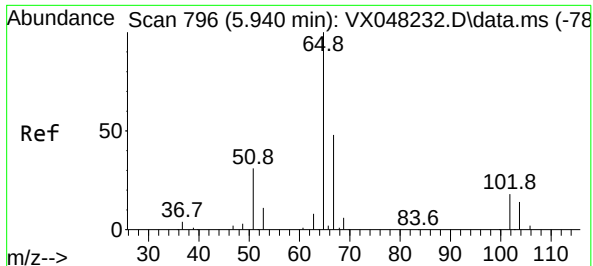
Ion Ratio Lower Upper

97 100

99 64.0 51.7 77.5

61 46.5 34.8 52.2





#33

1,2-Dichloroethane-d4

Concen: 55.682 ug/l

RT: 5.934 min Scan# 79

Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion: 65 Resp: 102830

Ion Ratio Lower Upper

65 100

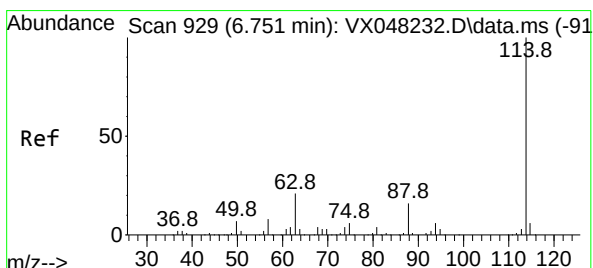
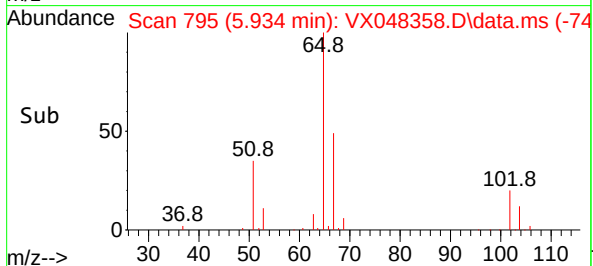
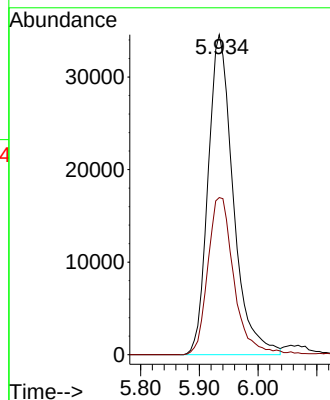
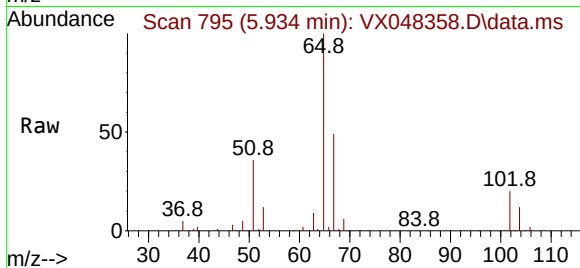
67 50.9 0.0 105.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.739 min Scan# 927

Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

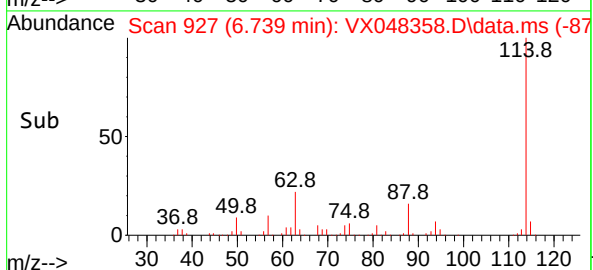
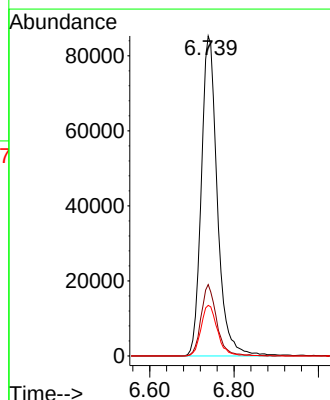
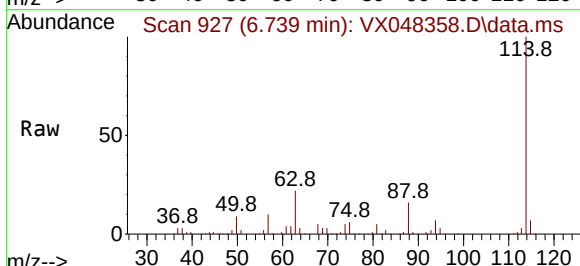
Tgt Ion:114 Resp: 225739

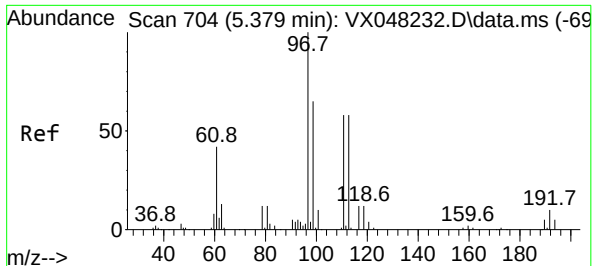
Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.2

88 15.8 0.0 33.6





#35

Dibromofluoromethane

Concen: 42.179 ug/l

RT: 5.367 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

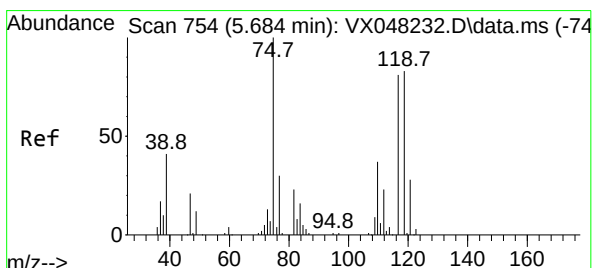
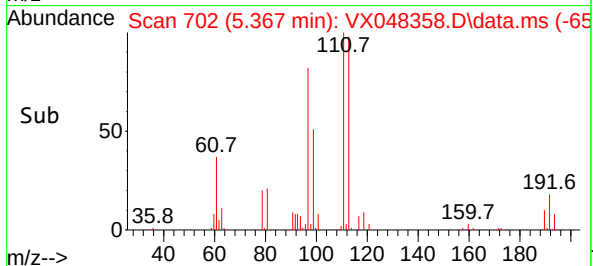
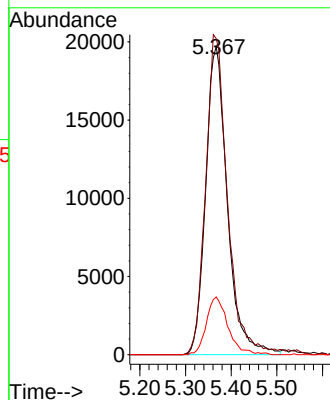
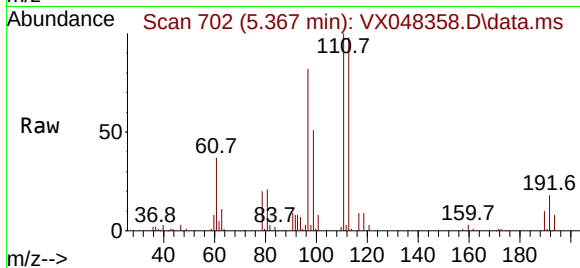
Tgt Ion:	113	Resp:	6500
Ion Ratio	Lower	Upper	
113	100		
111	104.5	82.2	123.4
192	18.6	15.1	22.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#36

1,1-Dichloropropene

Concen: 18.854 ug/l

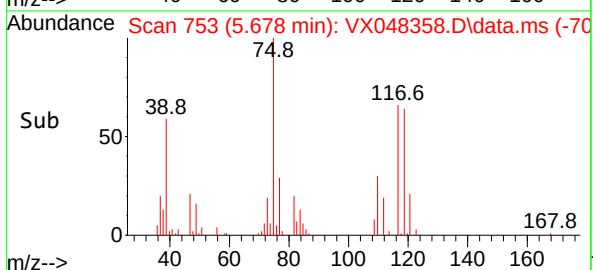
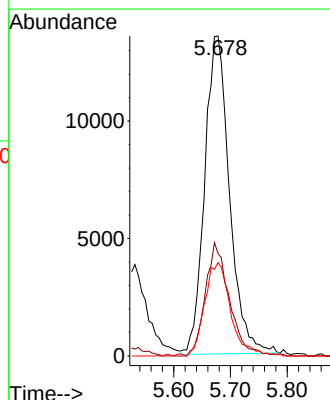
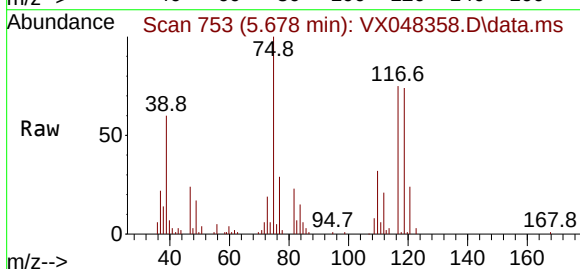
RT: 5.678 min Scan# 753

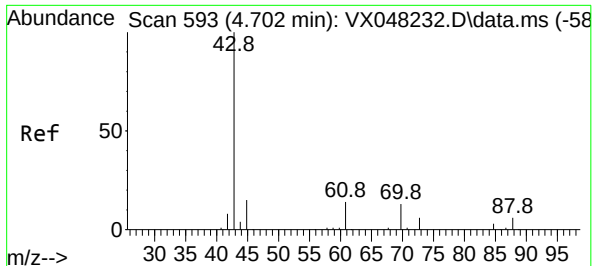
Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Tgt Ion:	75	Resp:	41298
Ion Ratio	Lower	Upper	
75	100		
110	34.4	17.7	53.1
77	30.6	24.3	36.5





#37

Ethyl Acetate

Concen: 19.003 ug/l

RT: 4.690 min Scan# 591

Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

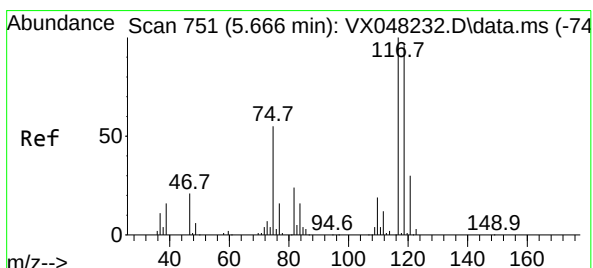
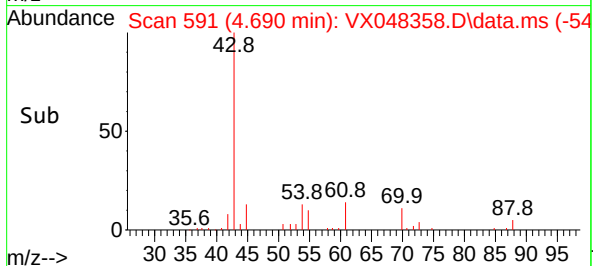
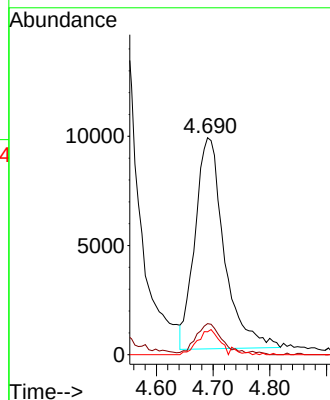
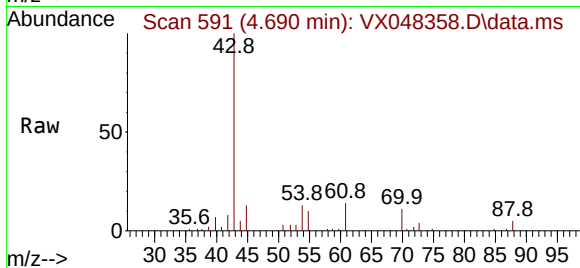
ClientSampleId :

VX1027WBSD01

Tgt Ion:	43	Resp:	3450
Ion	Ratio	Lower	Upper
43	100		
61	11.4	10.6	15.8
70	8.7	7.8	11.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#38

Carbon Tetrachloride

Concen: 18.609 ug/l

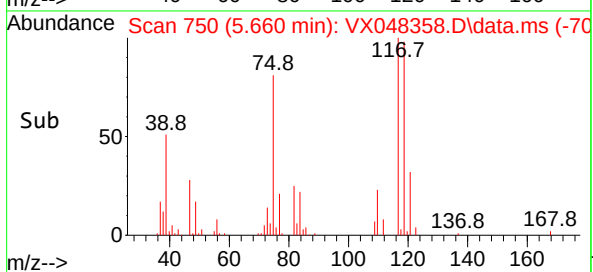
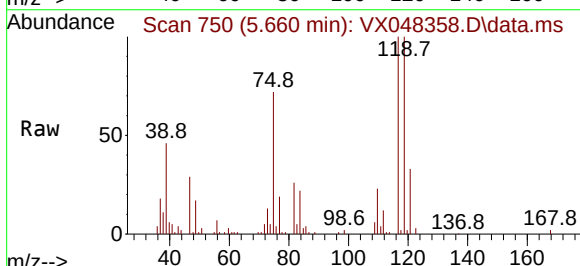
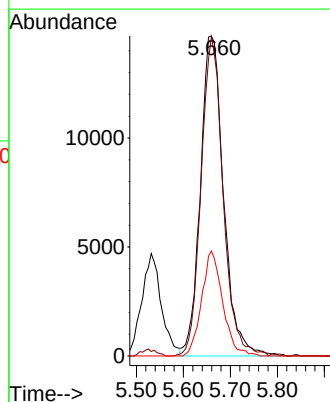
RT: 5.660 min Scan# 750

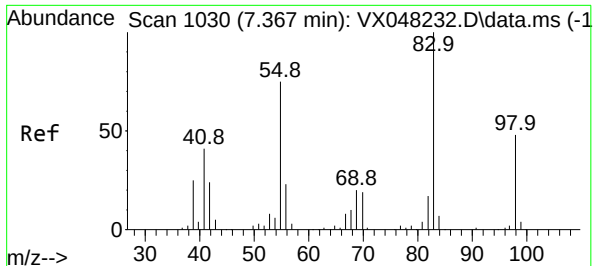
Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Tgt Ion:	117	Resp:	50288
Ion	Ratio	Lower	Upper
117	100		
119	99.1	77.2	115.8
121	32.8	24.8	37.2





#39

Methylcyclohexane

Concen: 19.841 ug/l

RT: 7.360 min Scan# 1030

Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

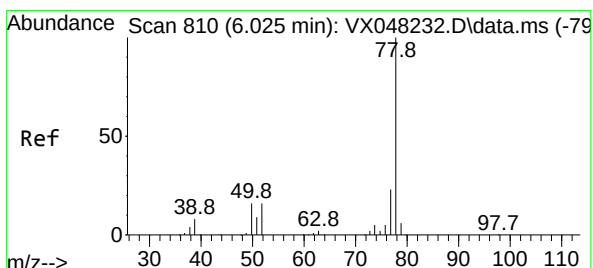
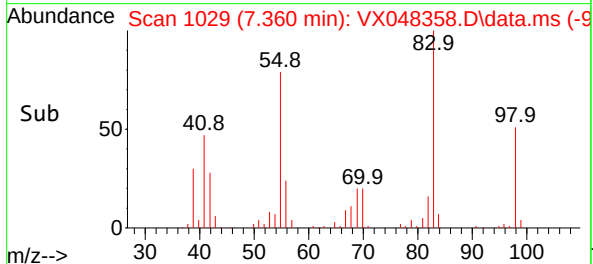
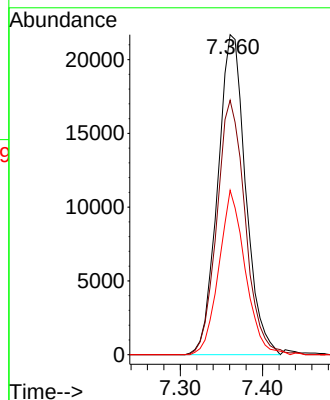
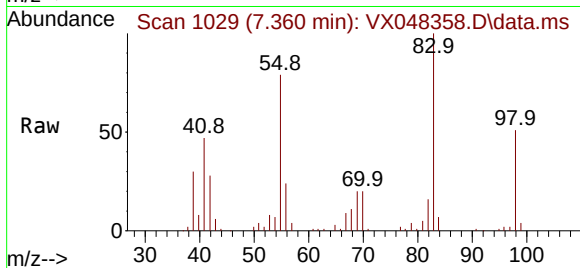
Tgt Ion:	83	Resp:	5132
Ion	Ratio	Lower	Upper
83	100		
55	79.5	66.2	99.2
98	51.4	38.9	58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#40

Benzene

Concen: 20.422 ug/l

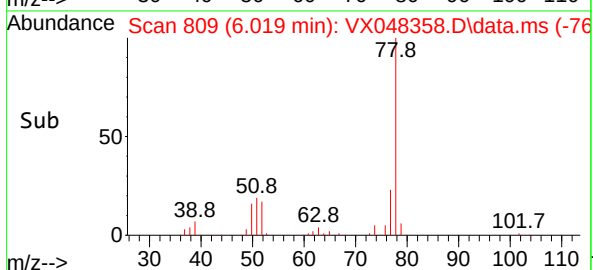
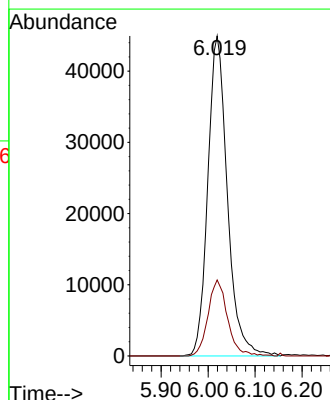
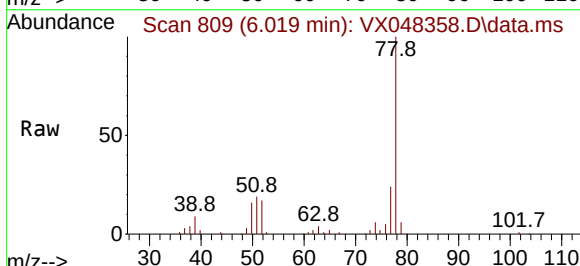
RT: 6.019 min Scan# 809

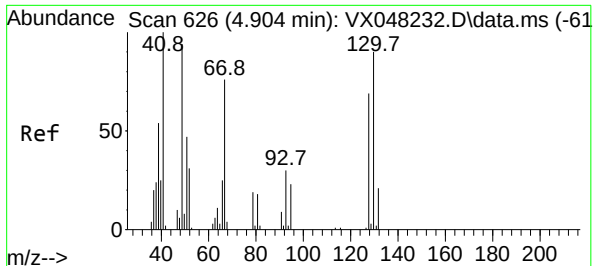
Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Tgt Ion:	78	Resp:	129873
Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.3	28.9





#41

Methacrylonitrile

Concen: 20.000 ug/l

RT: 4.891 min Scan# 61

Delta R.T. -0.012 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion: 41 Resp: 19069

Ion Ratio Lower Upper

41 100

39 58.7 44.0 66.0

67 70.9 58.7 88.1

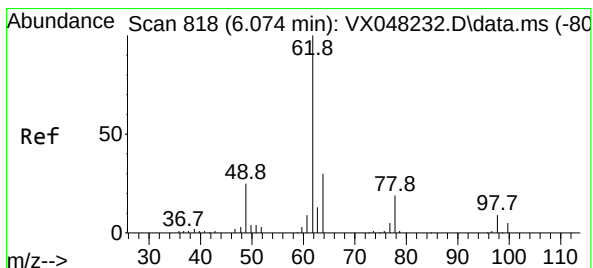
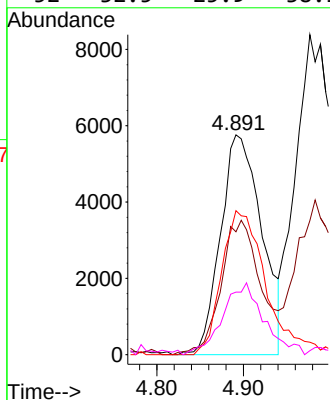
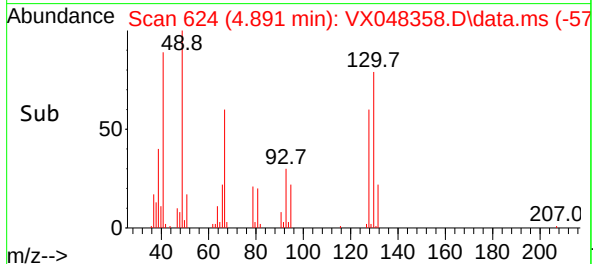
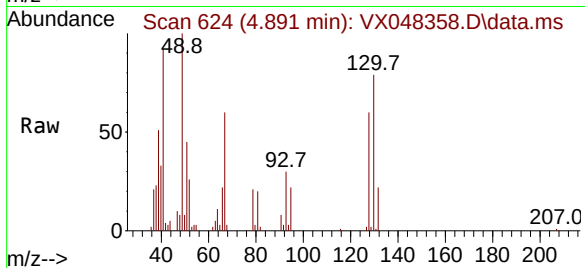
52 32.5 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#42

1,2-Dichloroethane

Concen: 21.063 ug/l

RT: 6.068 min Scan# 817

Delta R.T. -0.000 min

Lab File: VX048358.D

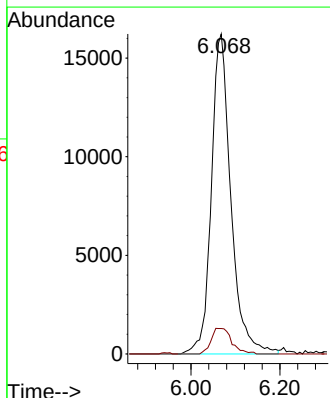
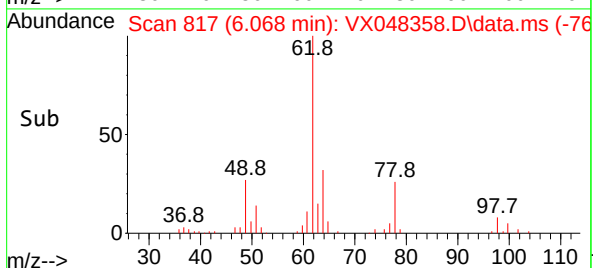
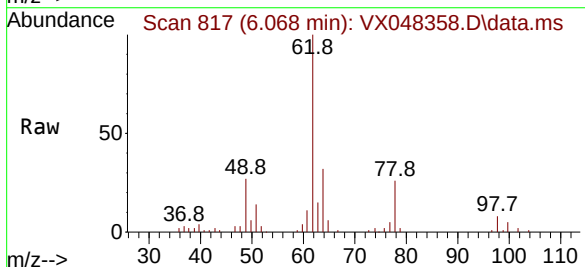
Acq: 27 Oct 2025 10:34

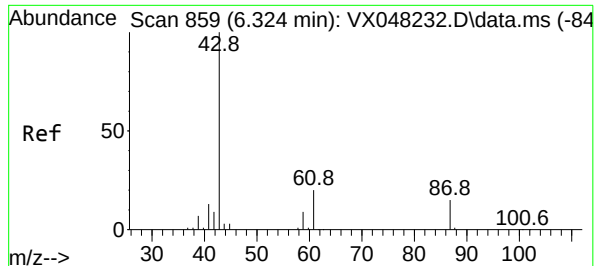
Tgt Ion: 62 Resp: 49429

Ion Ratio Lower Upper

62 100

98 8.4 0.0 17.2





#43

Isopropyl Acetate

Concen: 20.639 ug/l

RT: 6.318 min Scan# 81

Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

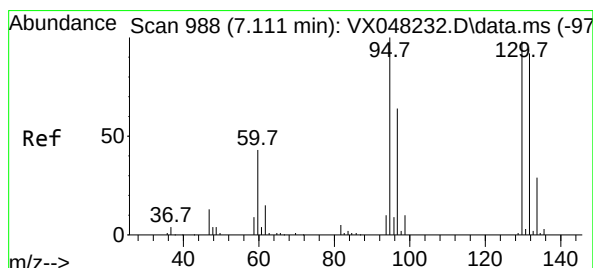
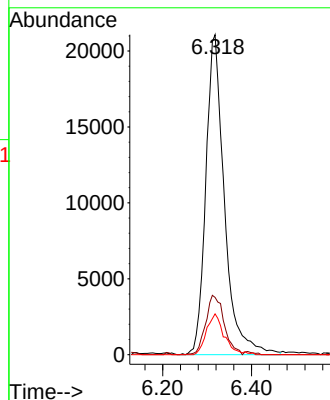
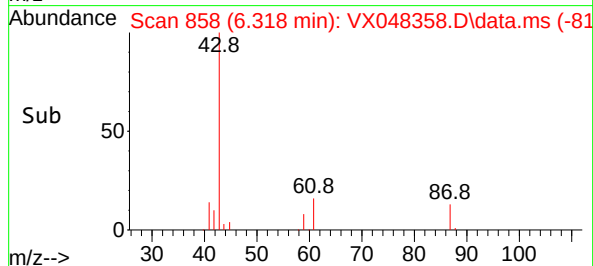
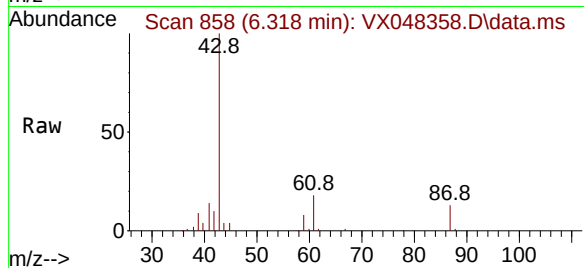
VX1027WBSD01

Tgt Ion: 43 Resp: 61550
Ion Ratio Lower Upper
43 100
61 18.3 14.9 22.3
87 12.2 9.4 14.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#44

Trichloroethene

Concen: 19.524 ug/l

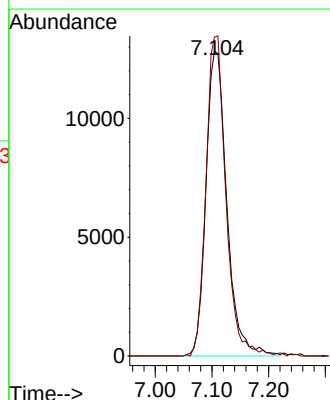
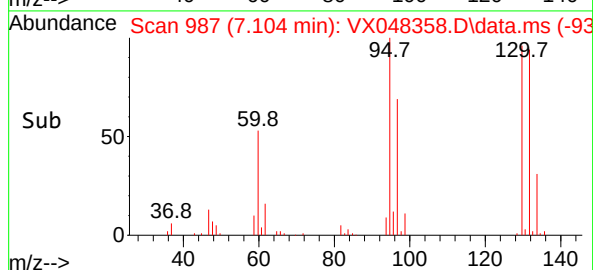
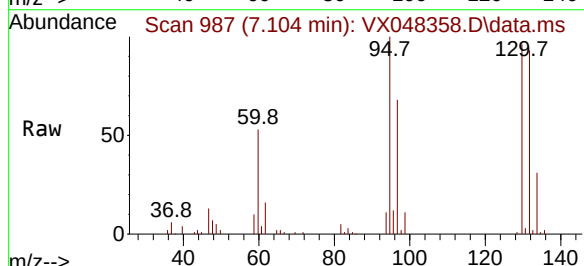
RT: 7.104 min Scan# 987

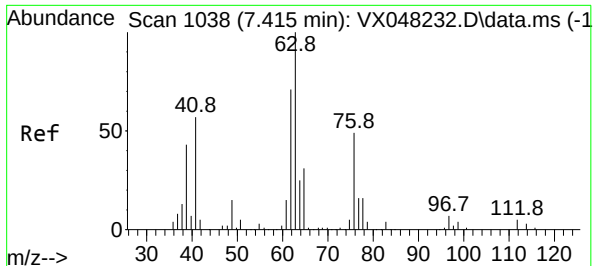
Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Tgt Ion:130 Resp: 32785
Ion Ratio Lower Upper
130 100
95 116.8 0.0 200.6





#45

1,2-Dichloropropane

Concen: 21.652 ug/l

RT: 7.409 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion: 63 Resp: 32738

Ion Ratio Lower Upper

63 100

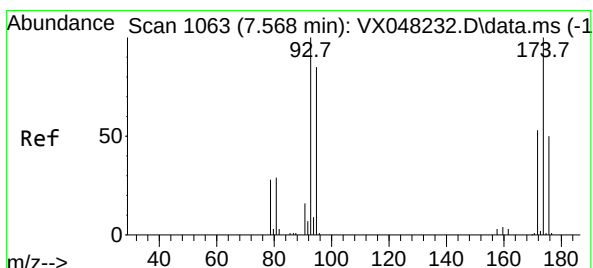
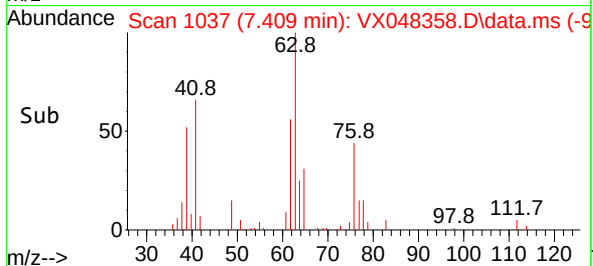
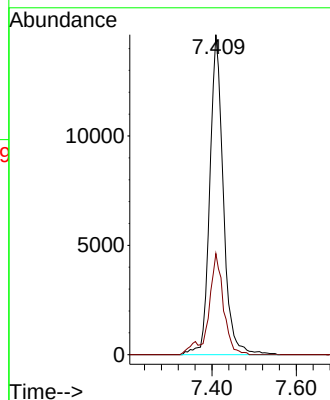
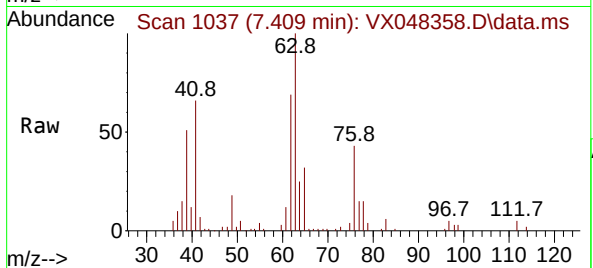
65 31.6 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#46

Dibromomethane

Concen: 19.357 ug/l

RT: 7.562 min Scan# 1062

Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

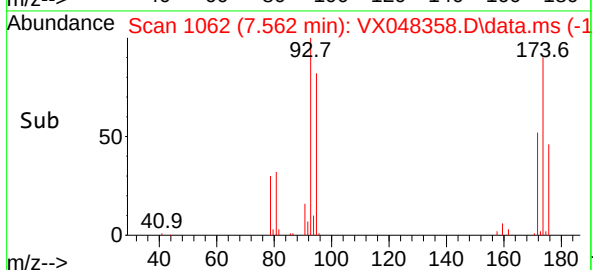
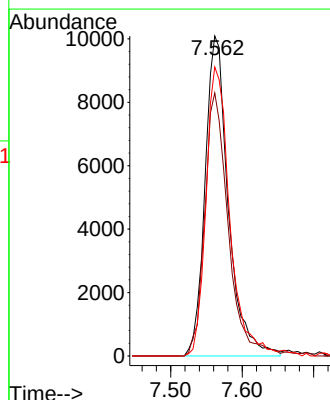
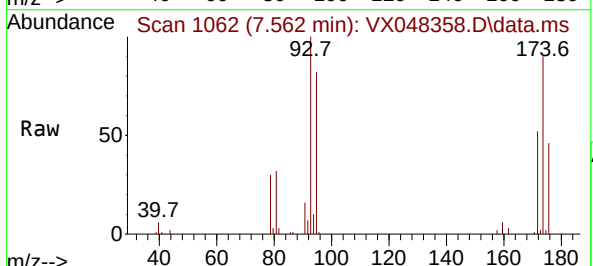
Tgt Ion: 93 Resp: 22802

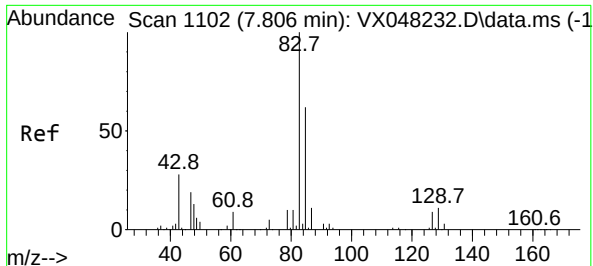
Ion Ratio Lower Upper

93 100

95 83.6 65.9 98.9

174 93.2 71.7 107.5





#47

Bromodichloromethane

Concen: 20.248 ug/l

RT: 7.799 min Scan# 1102

Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

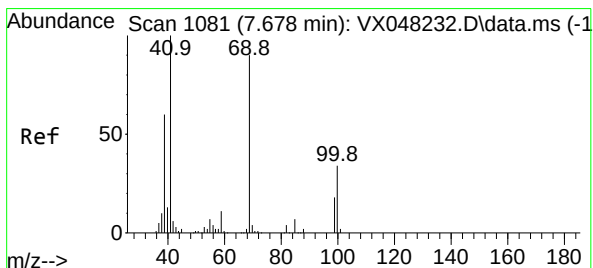
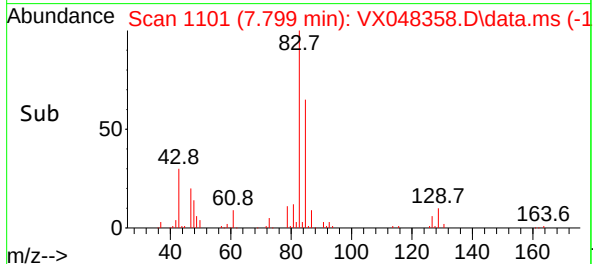
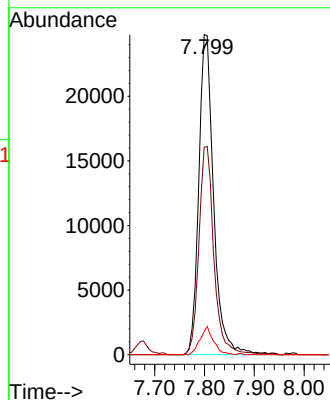
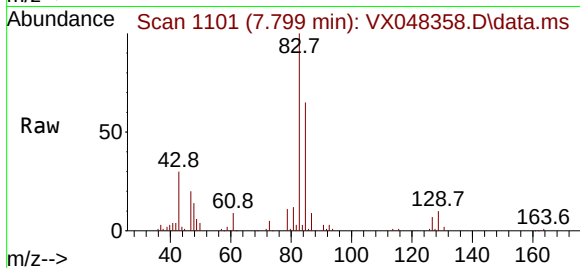
Tgt Ion:	83	Resp:	5149
Ion	Ratio	Lower	Upper
83	100		
85	64.8	52.2	78.4
127	7.2	7.3	10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#48

Methyl methacrylate

Concen: 20.307 ug/l

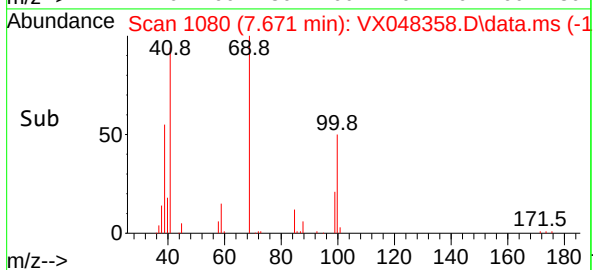
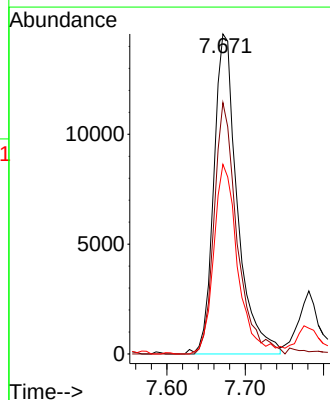
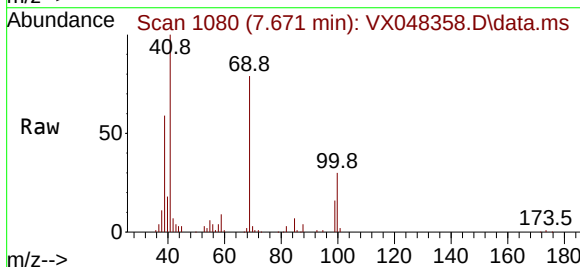
RT: 7.671 min Scan# 1080

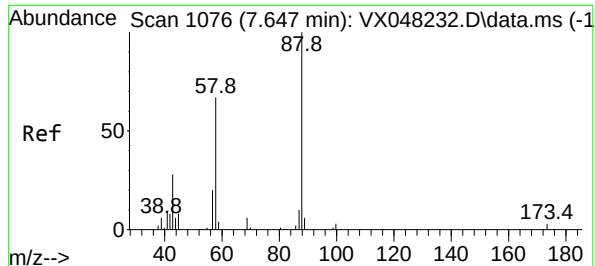
Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Tgt Ion:	41	Resp:	30560
Ion	Ratio	Lower	Upper
41	100		
69	76.0	63.4	95.0
39	60.6	47.1	70.7





#49

1,4-Dioxane

Concen: 325.176 ug/l

RT: 7.641 min Scan# 1076

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion: 88 Resp: 646

Ion Ratio Lower Upper

88 100

43 47.5 35.0 52.4

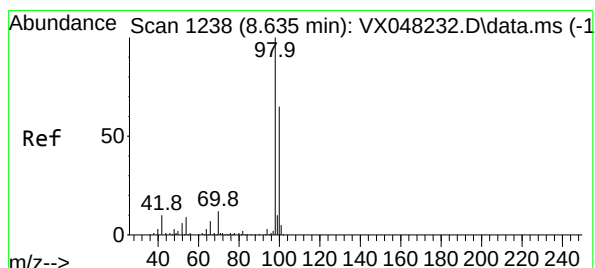
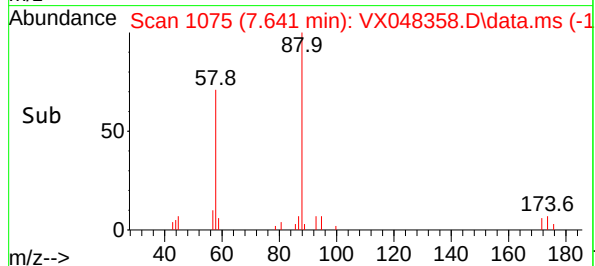
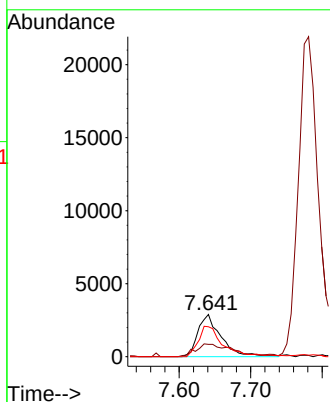
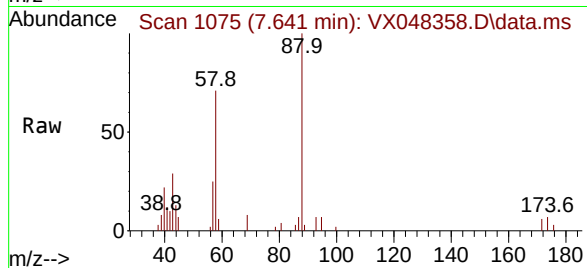
58 77.6 61.9 92.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#50

Toluene-d8

Concen: 50.046 ug/l

RT: 8.629 min Scan# 1237

Delta R.T. -0.006 min

Lab File: VX048358.D

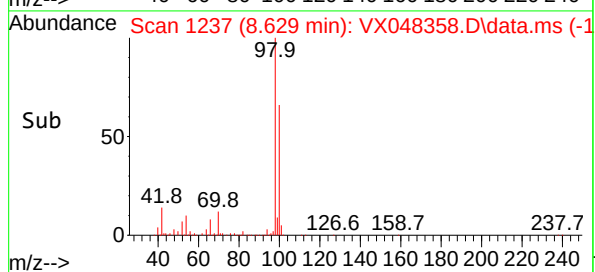
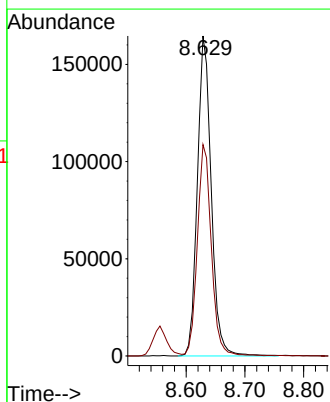
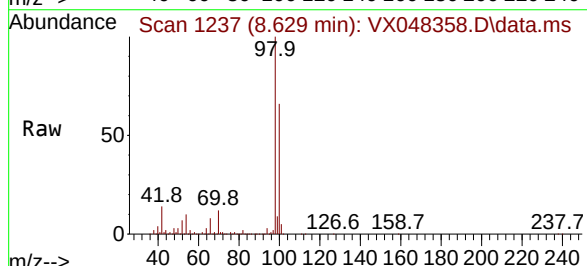
Acq: 27 Oct 2025 10:34

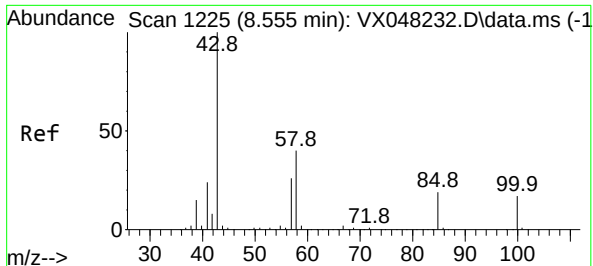
Tgt Ion: 98 Resp: 270338

Ion Ratio Lower Upper

98 100

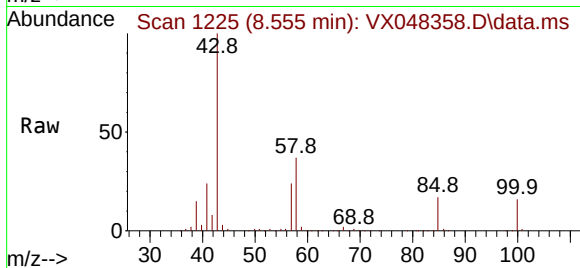
100 66.2 53.0 79.4





#51
4-Methyl-2-Pentanone
Concen: 98.720 ug/l
RT: 8.555 min Scan# 1225
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

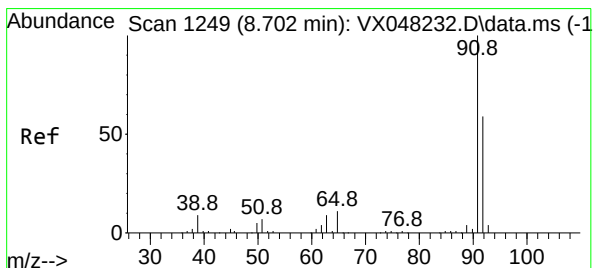
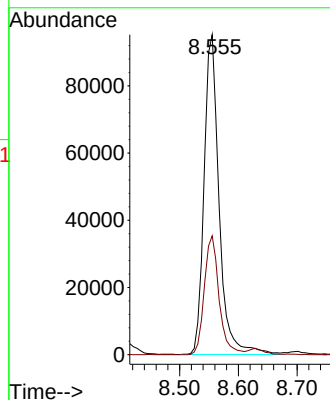
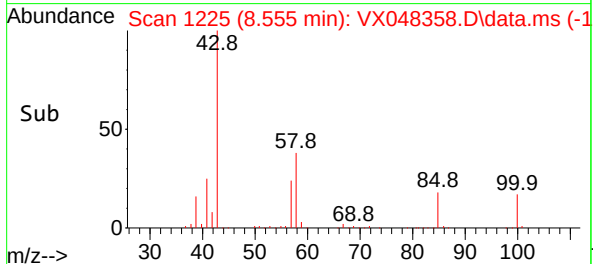
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01



Tgt Ion: 43 Resp: 169748
Ion Ratio Lower Upper
43 100
58 36.5 29.5 44.3

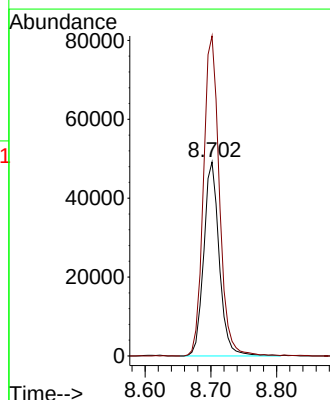
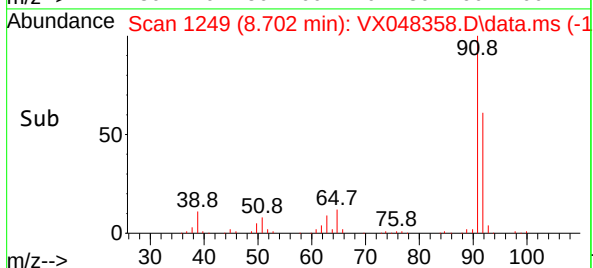
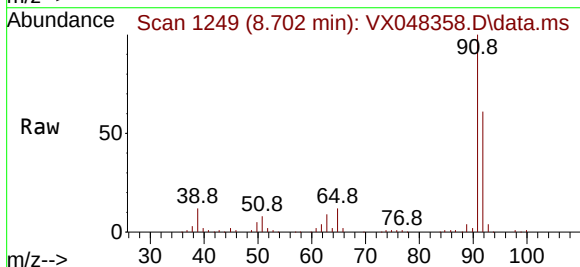
Manual Integrations
APPROVED

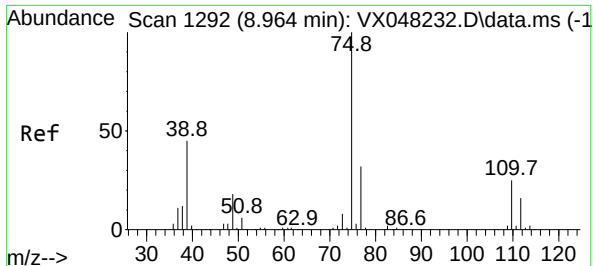
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#52
Toluene
Concen: 19.946 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Tgt Ion: 92 Resp: 80584
Ion Ratio Lower Upper
92 100
91 169.4 136.1 204.1





#53

t-1,3-Dichloropropene

Concen: 19.685 ug/l

RT: 8.958 min Scan# 1191

Delta R.T. -0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion: 75 Resp: 4824

Ion Ratio Lower Upper

75 100

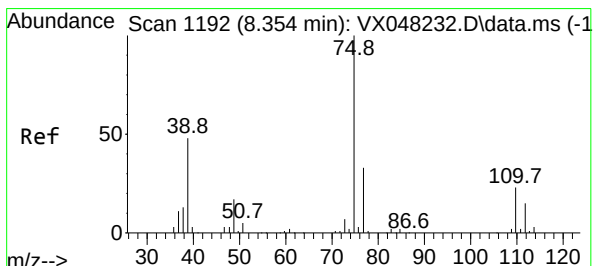
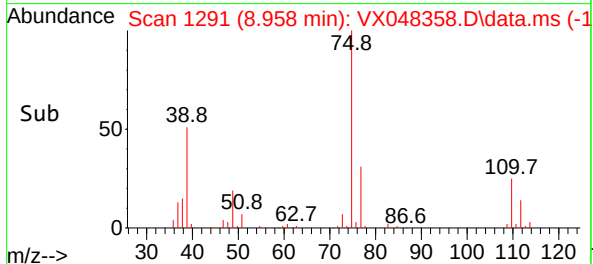
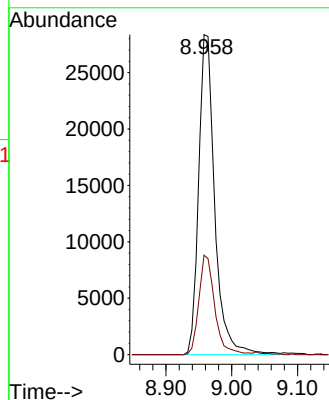
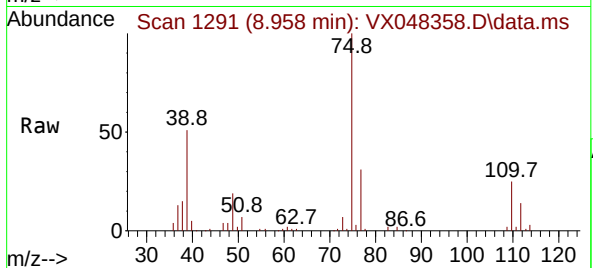
77 31.1 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#54

cis-1,3-Dichloropropene

Concen: 19.536 ug/l

RT: 8.348 min Scan# 1191

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

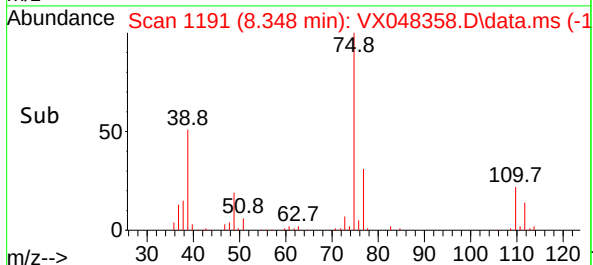
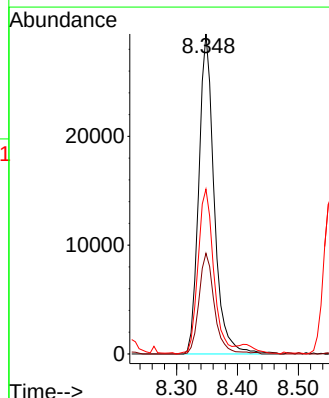
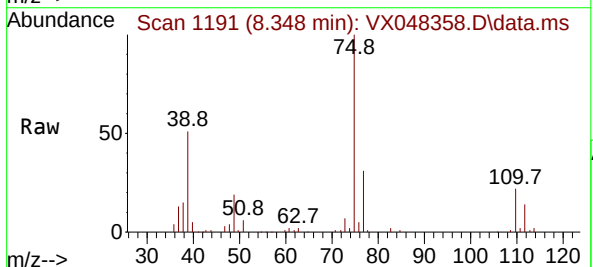
Tgt Ion: 75 Resp: 51662

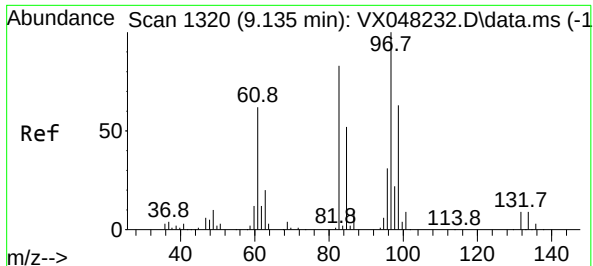
Ion Ratio Lower Upper

75 100

77 31.4 24.9 37.3

39 51.2 42.6 64.0





#55

1,1,2-Trichloroethane

Concen: 20.259 ug/l

RT: 9.135 min Scan# 1320

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion: 97 Resp: 30438

Ion Ratio Lower Upper

97 100

83 82.1 70.6 105.8

85 51.4 45.0 67.6

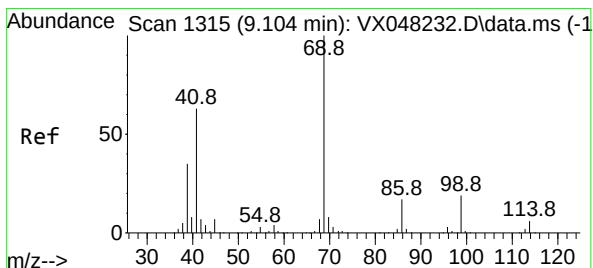
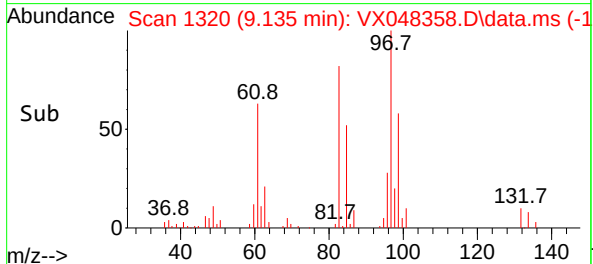
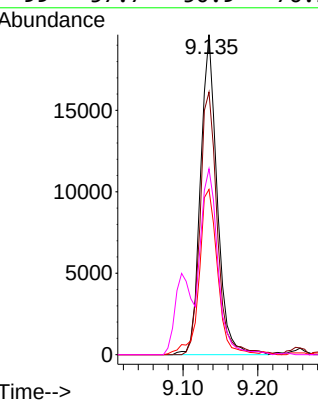
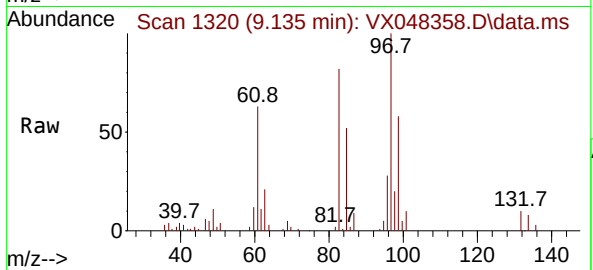
99 57.7 50.9 76.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#56

Ethyl methacrylate

Concen: 19.023 ug/l

RT: 9.098 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

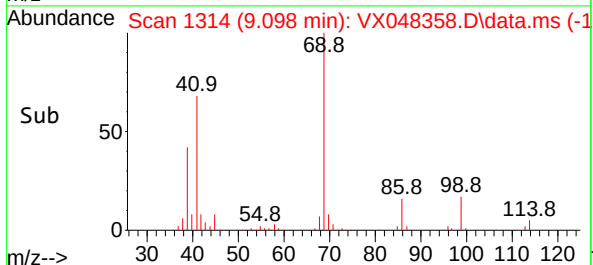
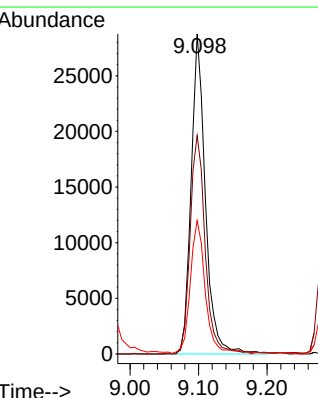
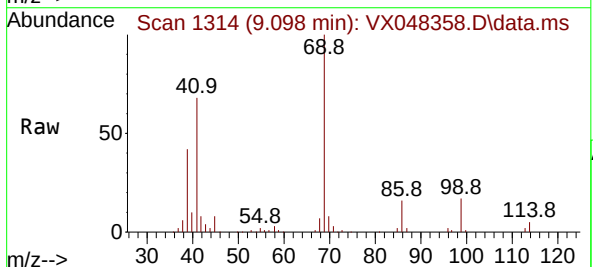
Tgt Ion: 69 Resp: 41803

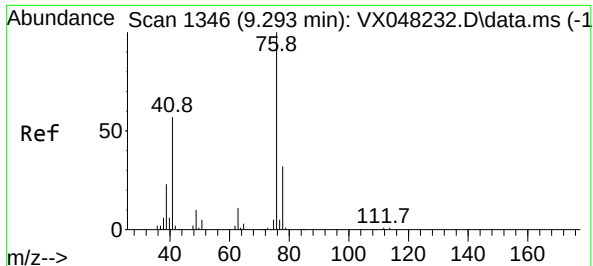
Ion Ratio Lower Upper

69 100

41 71.7 56.0 84.0

39 43.8 31.6 47.4





#57

1,3-Dichloropropane

Concen: 20.369 ug/l

RT: 9.293 min Scan# 111

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion: 76 Resp: 52274

Ion Ratio Lower Upper

76 100

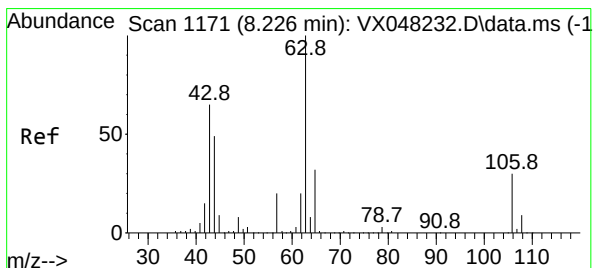
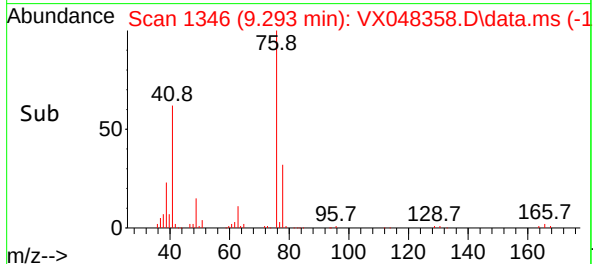
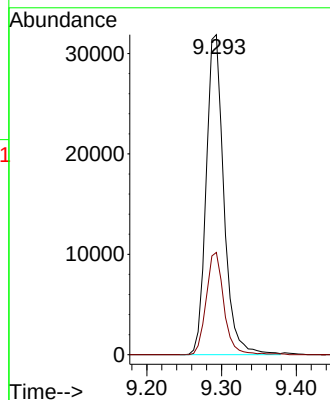
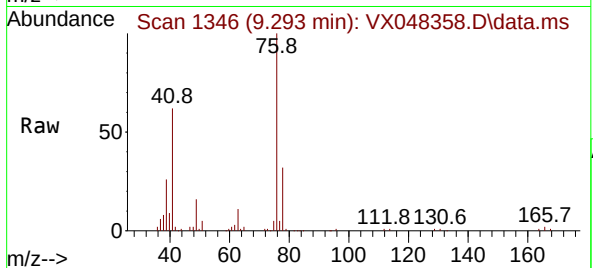
78 31.9 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#58

2-Chloroethyl Vinyl ether

Concen: 95.249 ug/l

RT: 8.226 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX048358.D

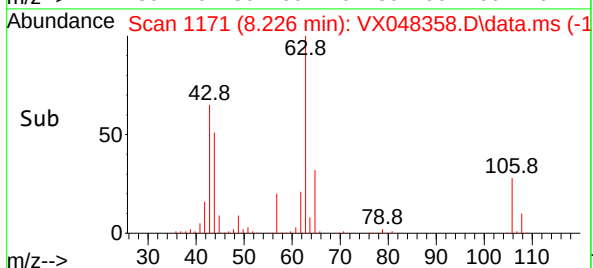
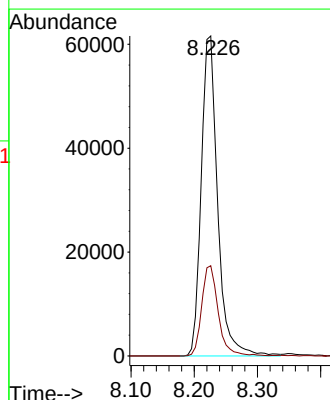
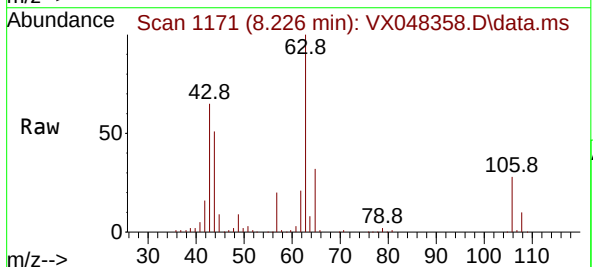
Acq: 27 Oct 2025 10:34

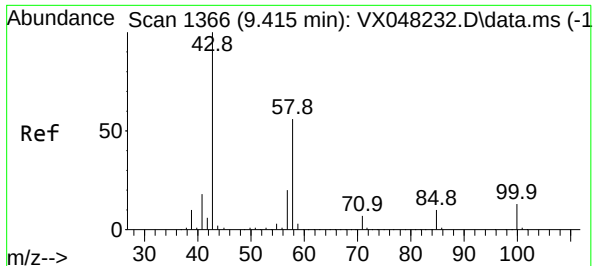
Tgt Ion: 63 Resp: 111299

Ion Ratio Lower Upper

63 100

106 28.4 22.2 33.2





#59

2-Hexanone

Concen: 93.344 ug/l

RT: 9.415 min Scan# 111918

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion: 43 Resp: 111918

Ion Ratio Lower Upper

43 100

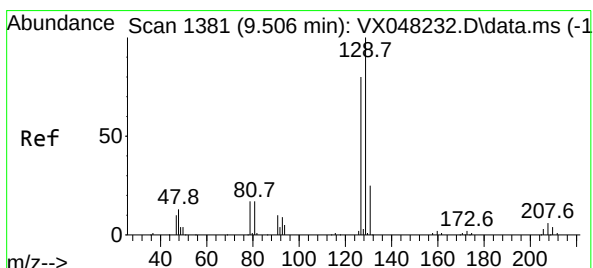
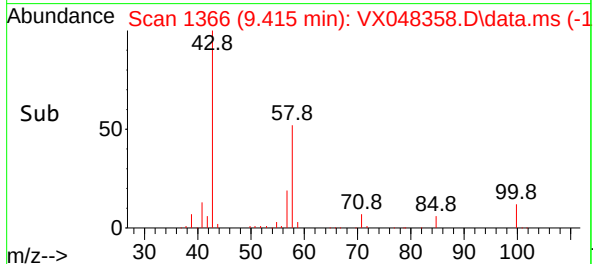
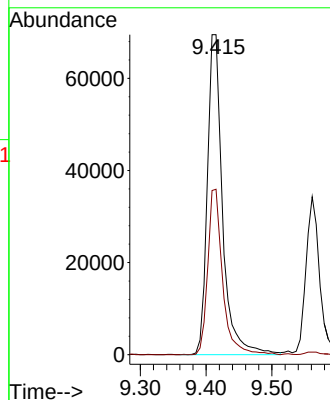
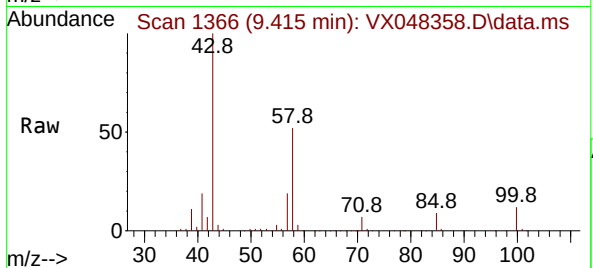
58 50.6 26.3 78.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#60

Dibromochloromethane

Concen: 18.631 ug/l

RT: 9.500 min Scan# 1380

Delta R.T. -0.006 min

Lab File: VX048358.D

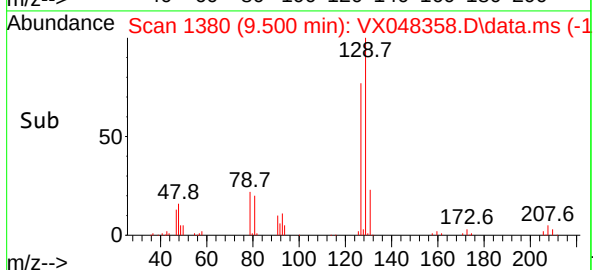
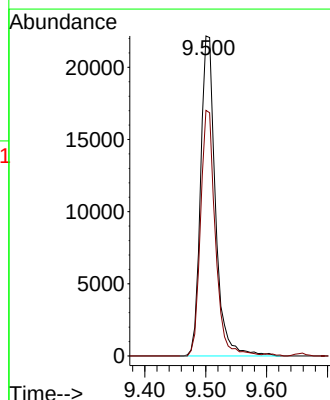
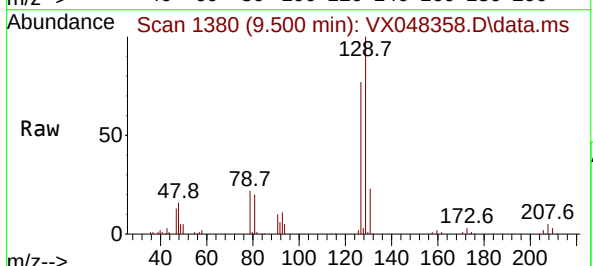
Acq: 27 Oct 2025 10:34

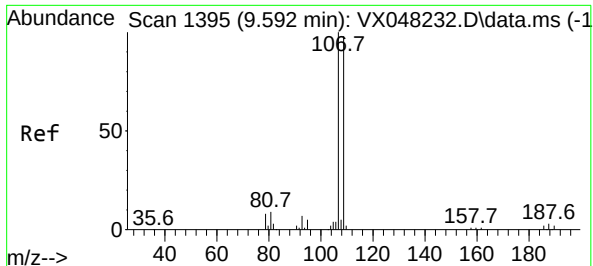
Tgt Ion:129 Resp: 37622

Ion Ratio Lower Upper

129 100

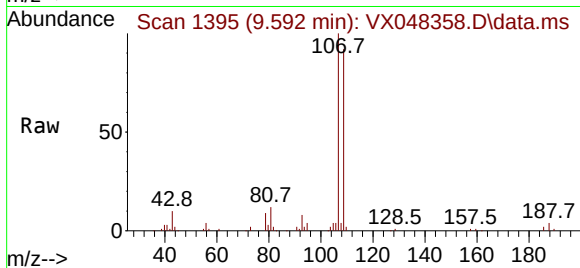
127 76.5 38.6 115.7





#61
1,2-Dibromoethane
Concen: 19.077 ug/l
RT: 9.592 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

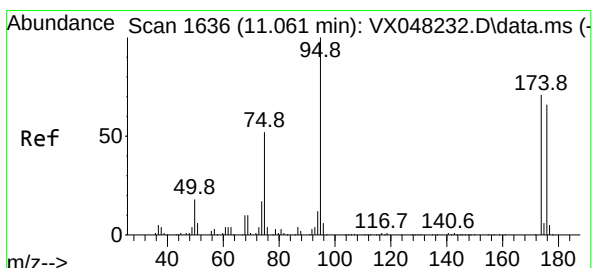
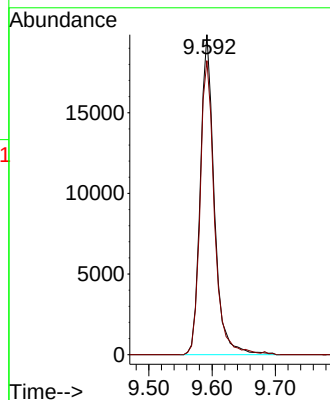
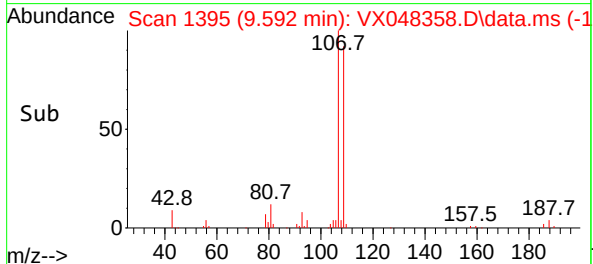
Instrument :
MSVOA_X
Client Sample Id :
VX1027WBSD01



Tgt Ion: 107 Resp: 30550
Ion Ratio Lower Upper
107 100
109 94.1 77.0 115.4

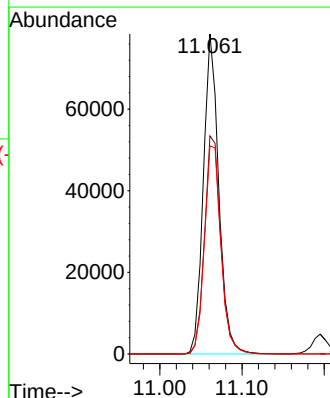
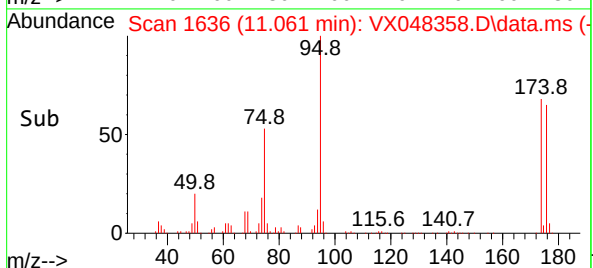
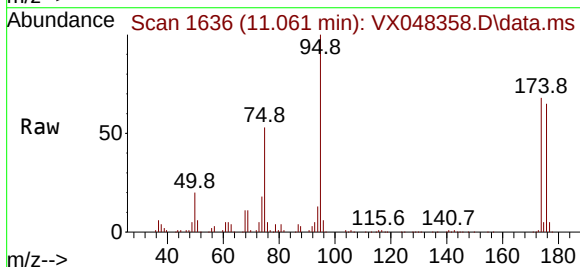
Manual Integrations
APPROVED

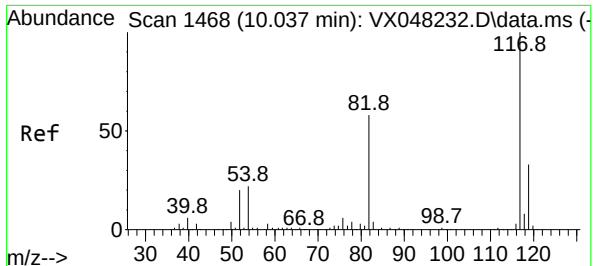
Reviewed By : John Carlone 10/28/2025
Supervised By : Mahesh Dadoda 10/28/2025



#62
4-Bromofluorobenzene
Concen: 49.640 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

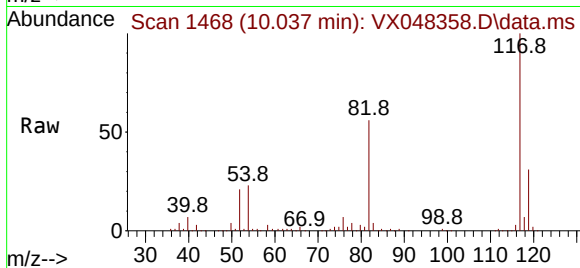
Tgt Ion: 95 Resp: 102009
Ion Ratio Lower Upper
95 100
174 72.3 0.0 147.8
176 69.5 0.0 142.8





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

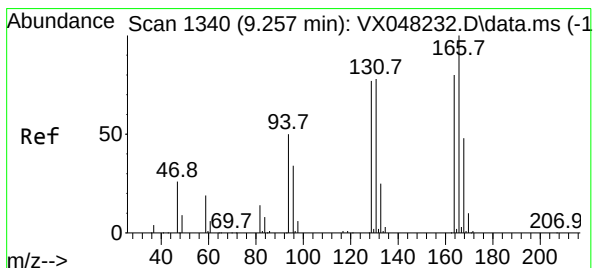
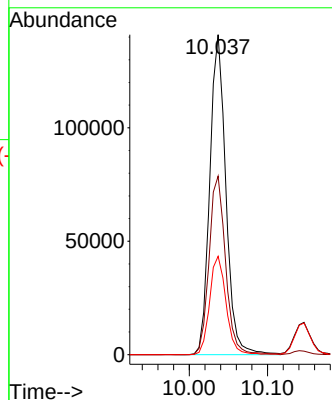
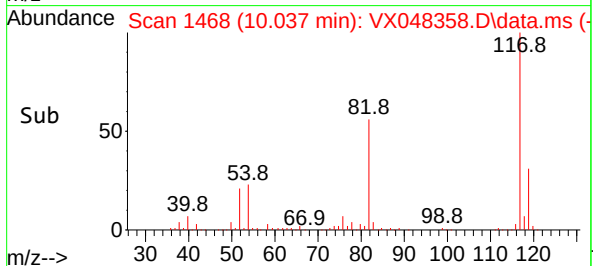
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01



Tgt Ion:117 Resp: 200520
Ion Ratio Lower Upper
117 100
82 55.8 46.5 69.7
119 30.7 25.9 38.9

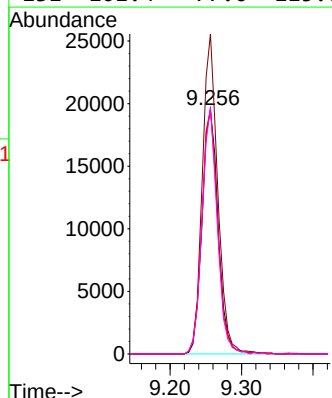
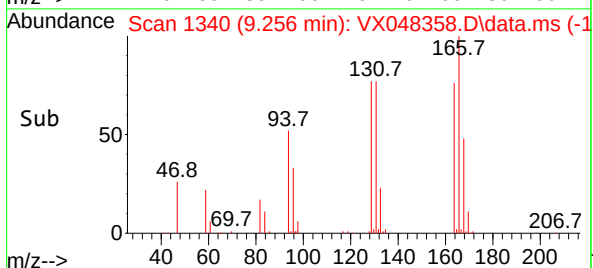
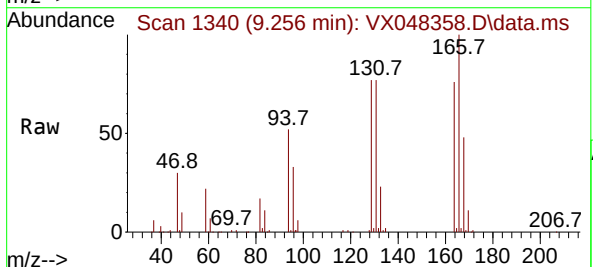
Manual Integrations
APPROVED

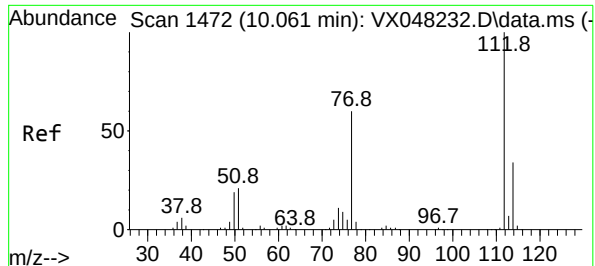
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#64
Tetrachloroethene
Concen: 20.386 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Tgt Ion:164 Resp: 30516
Ion Ratio Lower Upper
164 100
166 131.3 104.5 156.7
129 100.5 81.8 122.6
131 101.4 77.0 115.6





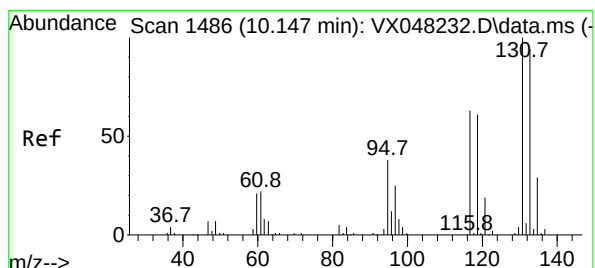
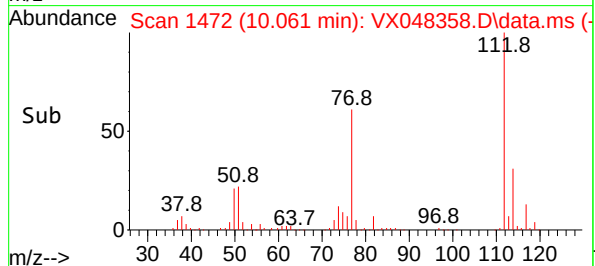
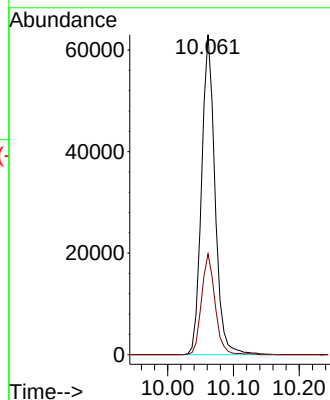
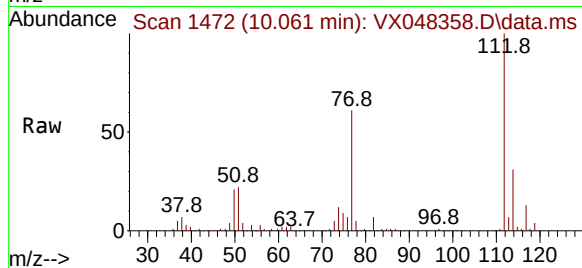
#65
Chlorobenzene
Concen: 19.865 ug/l
RT: 10.061 min Scan# 1472
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01

Tgt Ion:112 Resp: 8960
Ion Ratio Lower Upper
112 100
114 31.5 26.2 39.2

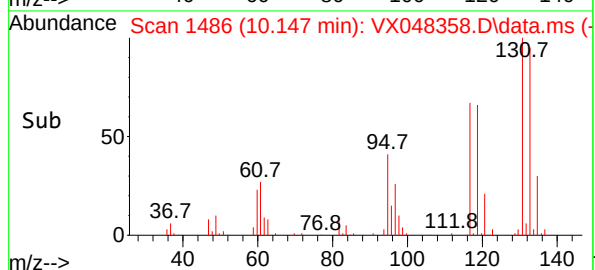
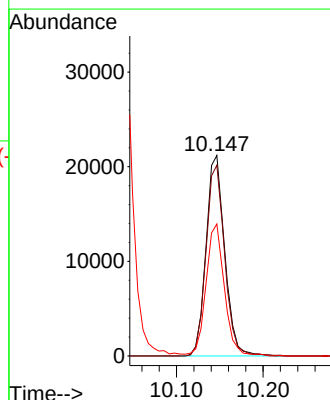
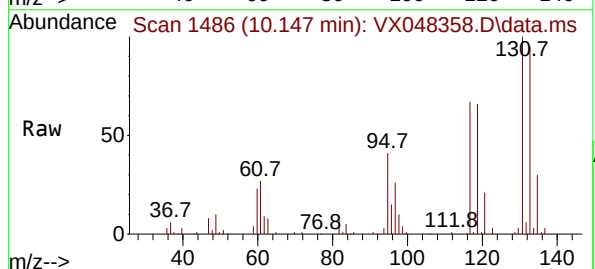
Manual Integrations
APPROVED

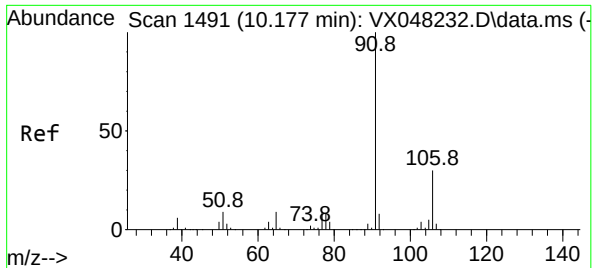
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 19.158 ug/l
RT: 10.147 min Scan# 1486
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

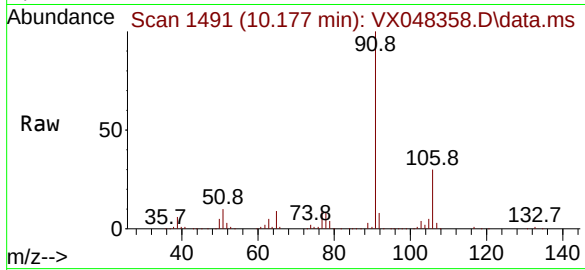
Tgt Ion:131 Resp: 31740
Ion Ratio Lower Upper
131 100
133 95.1 47.6 142.8
119 64.8 32.5 97.5





#67
Ethyl Benzene
Concen: 19.662 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

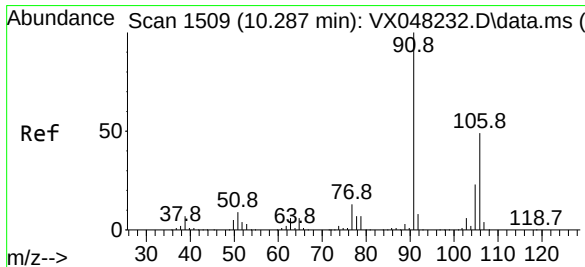
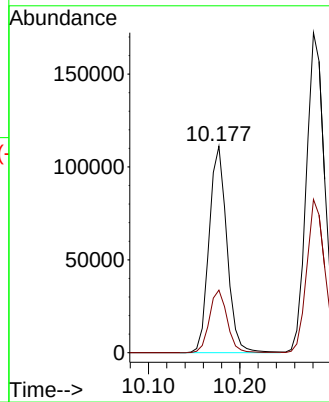
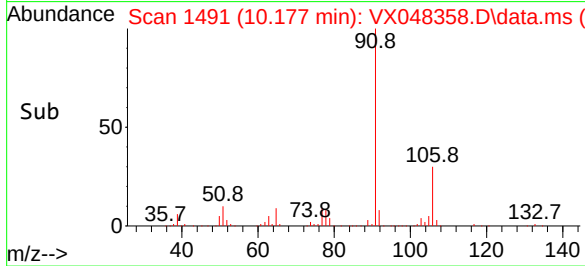
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01



Tgt Ion: 91 Resp: 151002
Ion Ratio Lower Upper
91 100
106 30.3 23.8 35.6

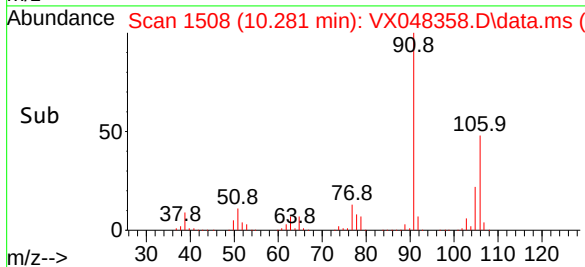
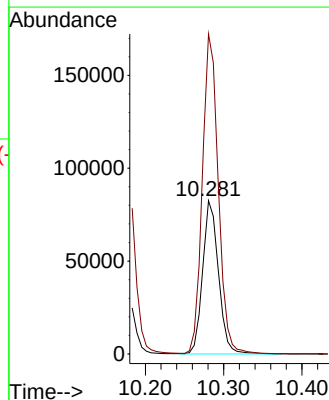
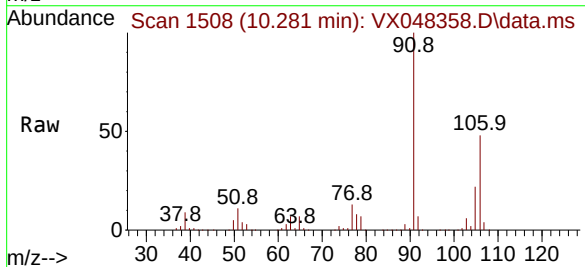
Manual Integrations
APPROVED

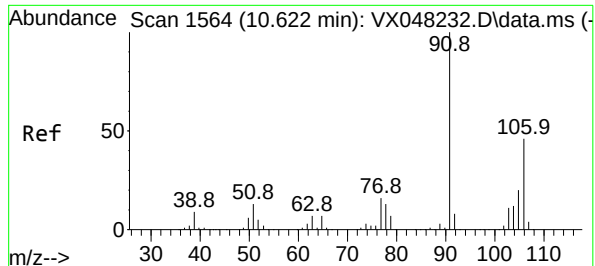
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#68
m/p-Xylenes
Concen: 40.510 ug/l
RT: 10.281 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Tgt Ion:106 Resp: 115593
Ion Ratio Lower Upper
106 100
91 210.7 167.9 251.9





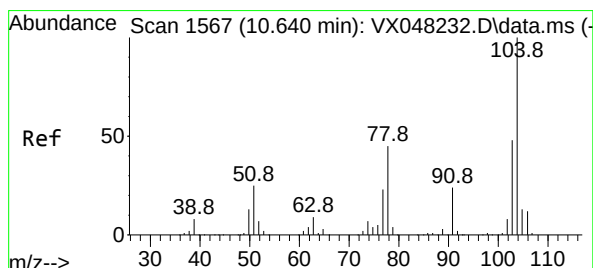
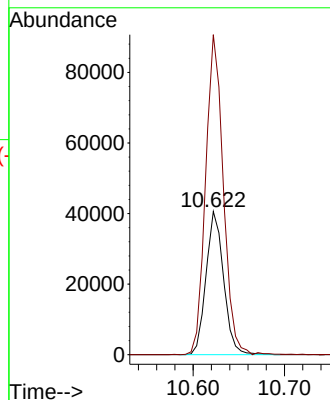
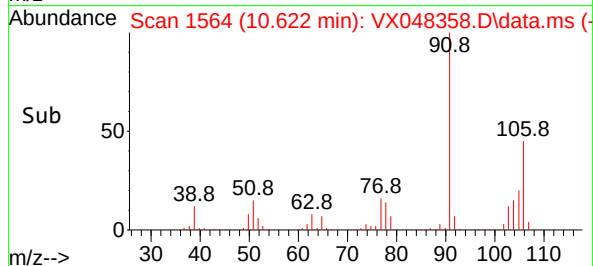
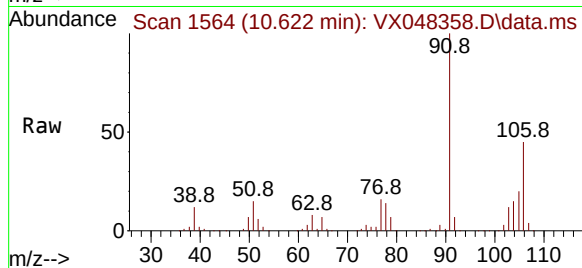
#69
o-Xylene
Concen: 19.642 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01

Tgt Ion:106 Resp: 54110
Ion Ratio Lower Upper
106 100
91 225.0 111.3 333.9

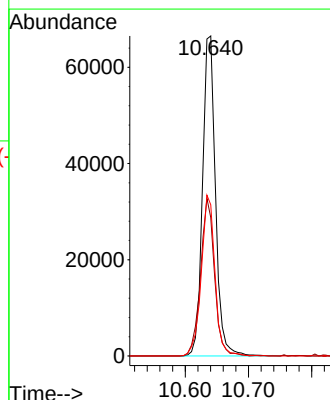
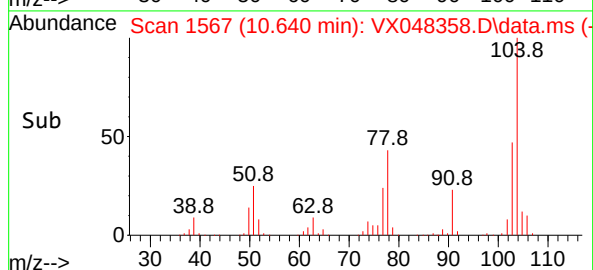
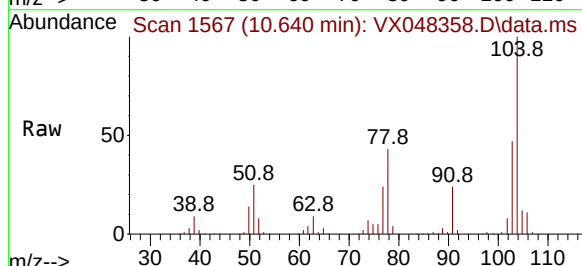
Manual Integrations
APPROVED

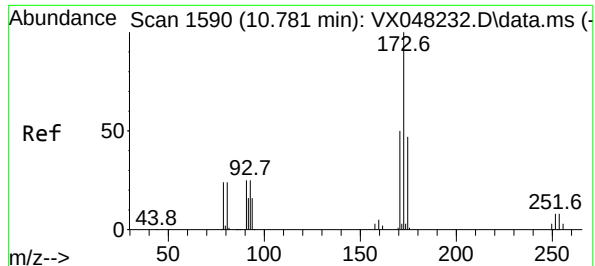
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#70
Styrene
Concen: 20.280 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

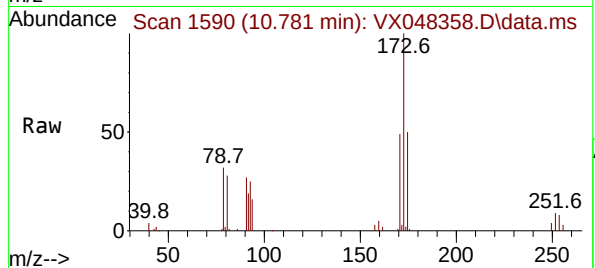
Tgt Ion:104 Resp: 95127
Ion Ratio Lower Upper
104 100
78 52.8 42.2 63.4
103 53.0 43.0 64.4





#71
Bromoform
Concen: 16.774 ug/l
RT: 10.781 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

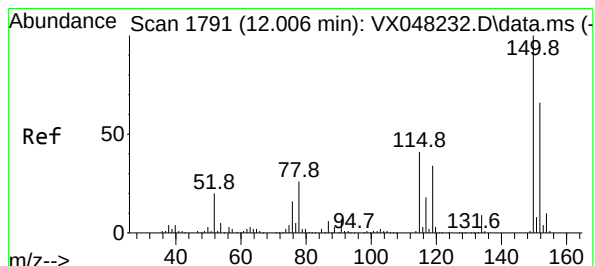
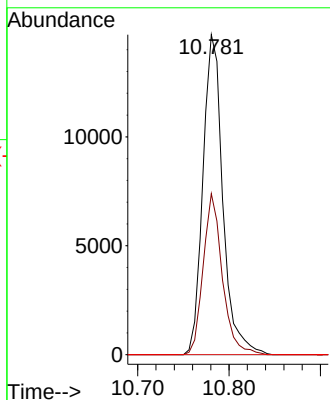
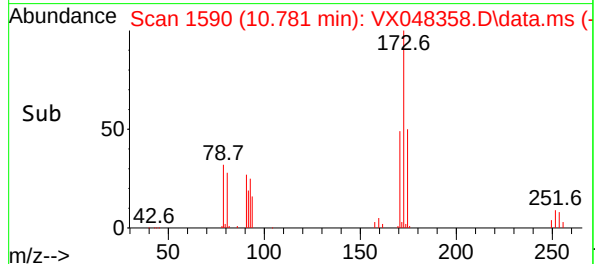
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01



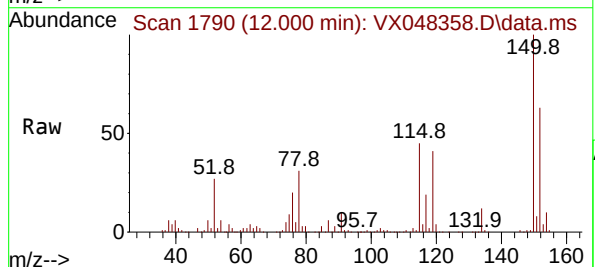
Tgt Ion:173 Resp: 2221
Ion Ratio Lower Upper
173 100
175 48.4 24.0 72.0
254 0.0 0.0 0.0

Manual Integrations
APPROVED

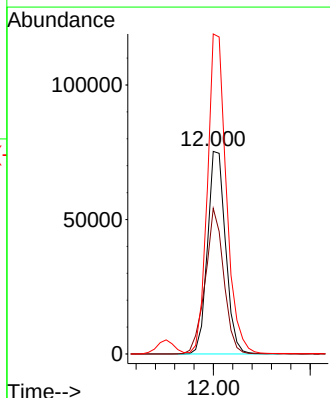
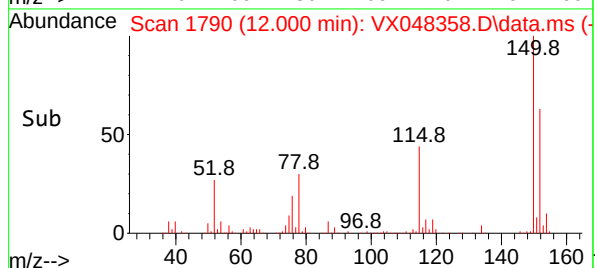
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025

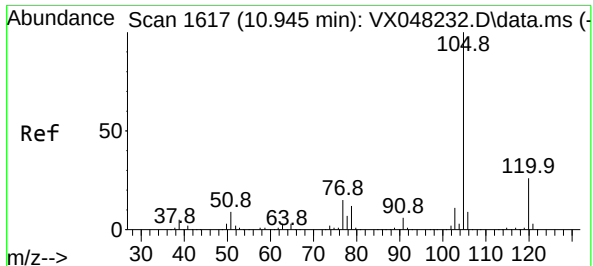


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.000 min Scan# 1790
Delta R.T. -0.006 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34



Tgt Ion:152 Resp: 97723
Ion Ratio Lower Upper
152 100
115 73.5 43.1 129.4
150 165.4 0.0 353.0





#73

Isopropylbenzene

Concen: 20.390 ug/l

RT: 10.945 min Scan# 1617

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion:105 Resp: 14553

Ion Ratio Lower Upper

105 100

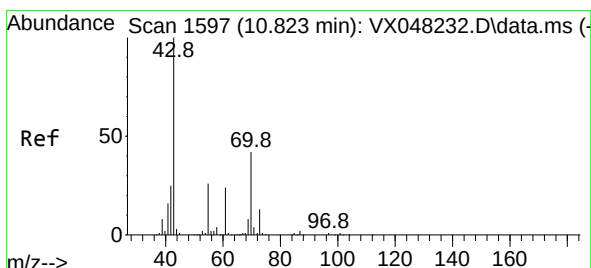
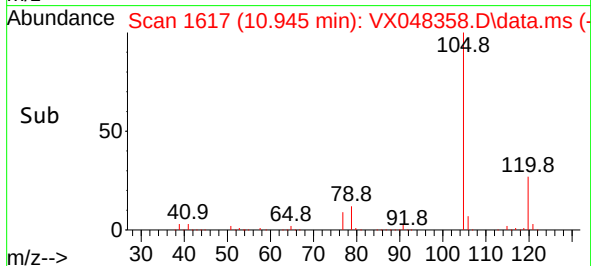
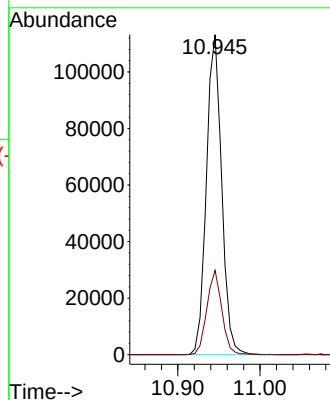
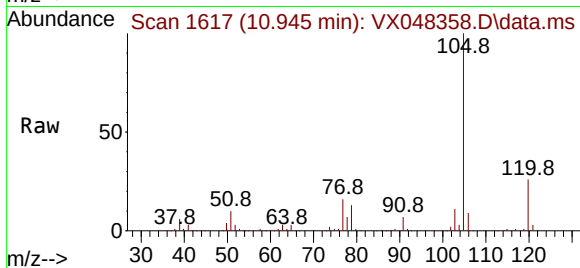
120 25.8 13.0 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#74

N-ethyl acetate

Concen: 21.282 ug/l

RT: 10.823 min Scan# 1597

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Tgt Ion: 43 Resp: 53882

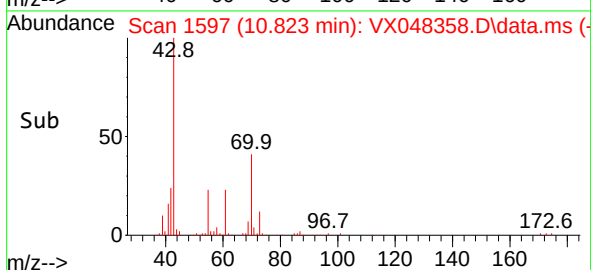
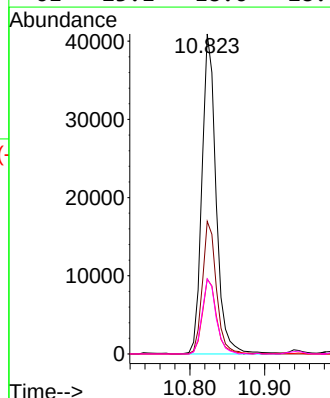
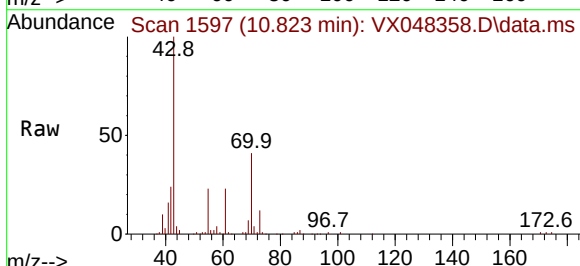
Ion Ratio Lower Upper

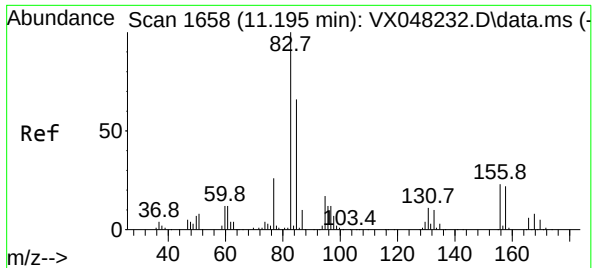
43 100

70 40.8 32.2 48.2

55 23.4 19.1 28.7

61 23.1 18.6 28.0





#75

1,1,2,2-Tetrachloroethane

Concen: 18.858 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

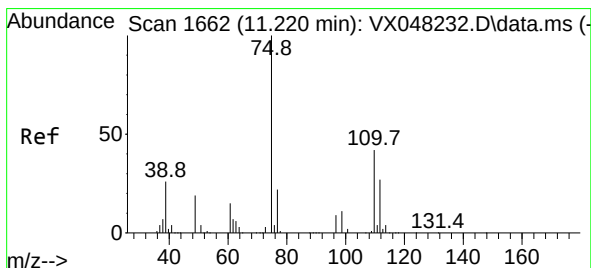
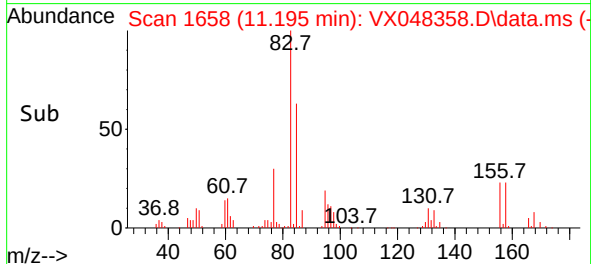
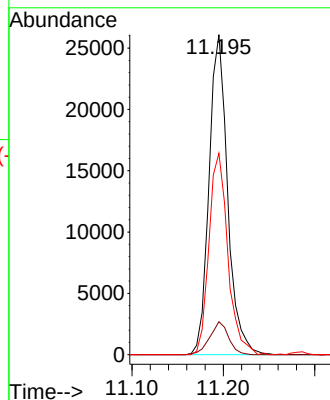
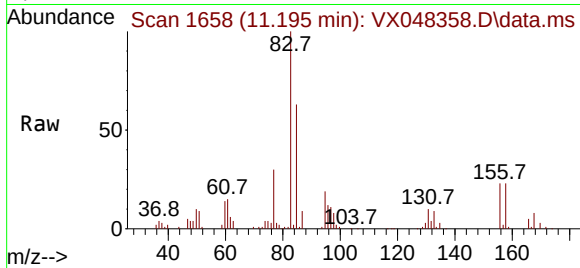
Tgt Ion:	83	Resp:	36758
Ion	Ratio	Lower	Upper
83	100		
131	10.4	4.8	14.4
85	63.9	31.9	95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#76

1,2,3-Trichloropropane

Concen: 18.198 ug/l m

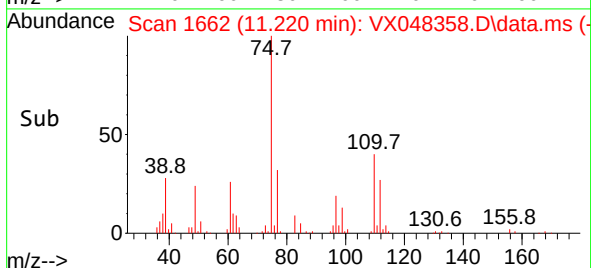
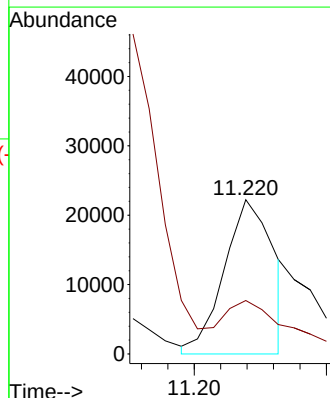
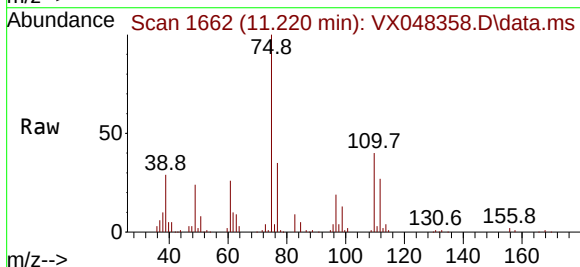
RT: 11.220 min Scan# 1662

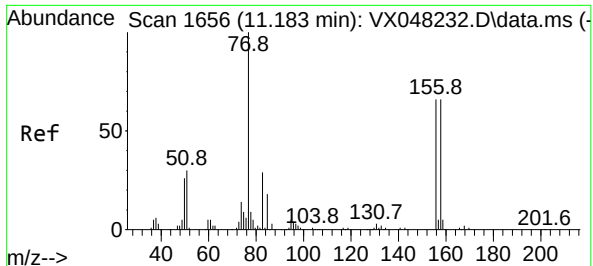
Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Tgt Ion:	75	Resp:	28839
Ion	Ratio	Lower	Upper
75	100		
77	43.4	22.4	67.2





#77

Bromobenzene

Concen: 19.468 ug/l

RT: 11.177 min Scan# 1655

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

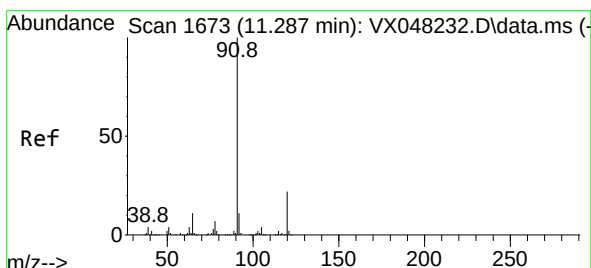
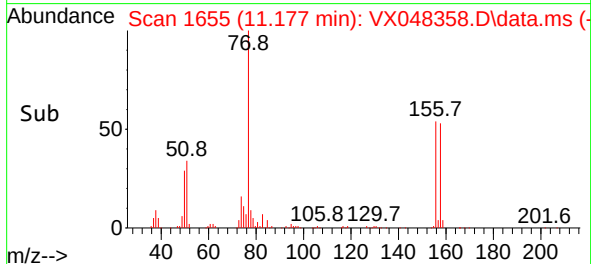
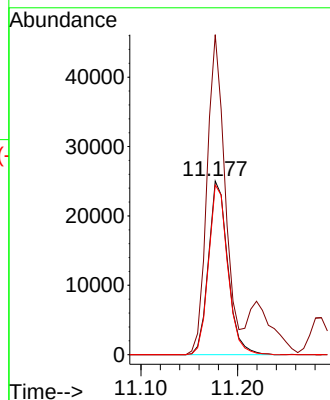
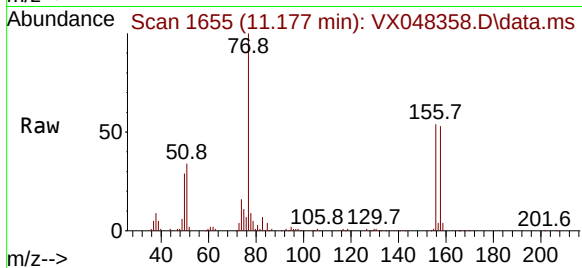
Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion:	156	Resp:	3484
Ion Ratio	Lower	Upper	
156	100		
77	171.1	87.0	261.0
158	96.8	47.8	143.4

Manual Integrations
APPROVEDReviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025

#78

n-propylbenzene

Concen: 21.157 ug/l

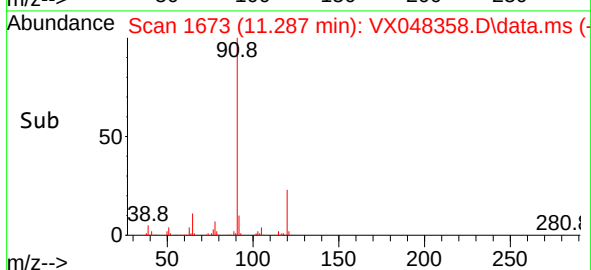
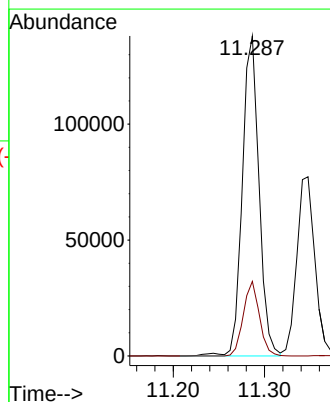
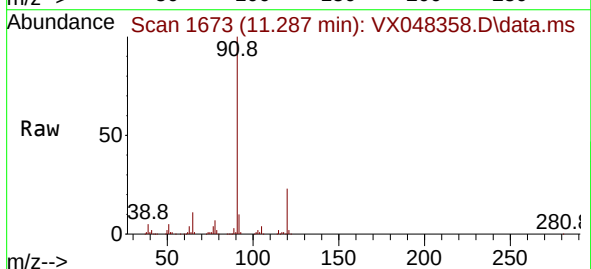
RT: 11.287 min Scan# 1673

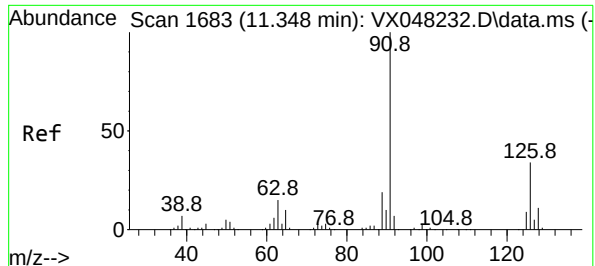
Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Tgt Ion:	91	Resp:	174843
Ion Ratio	Lower	Upper	
91	100		
120	22.4	11.1	33.1





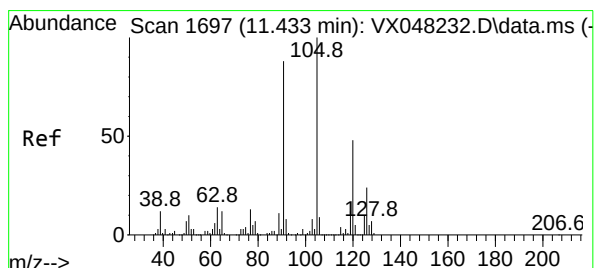
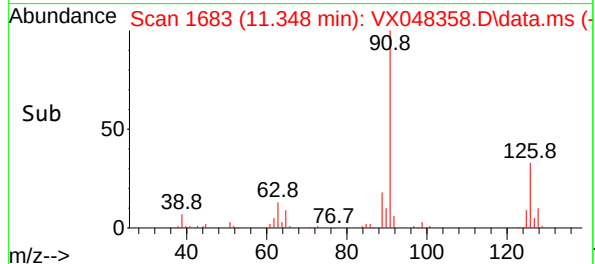
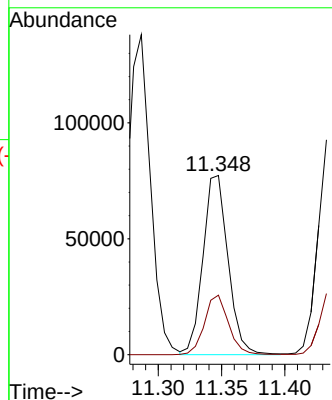
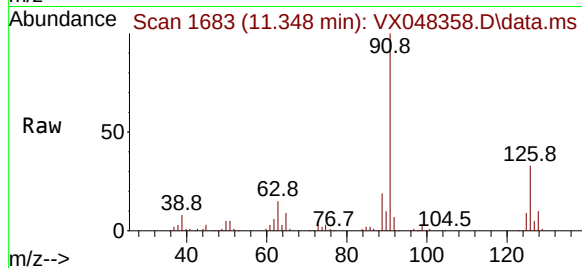
#79
2-Chlorotoluene
Concen: 21.346 ug/l
RT: 11.348 min Scan# 1683
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01

Tgt Ion: 91 Resp: 10695
Ion Ratio Lower Upper
91 100
126 31.7 16.4 49.4

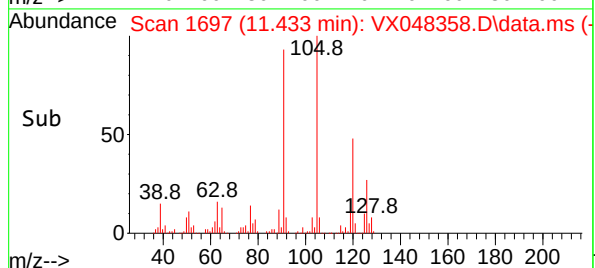
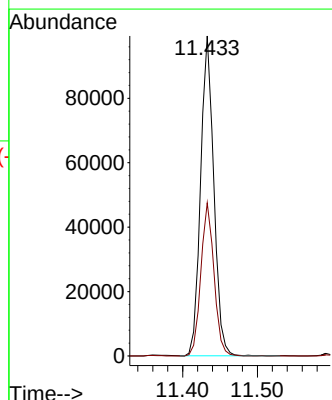
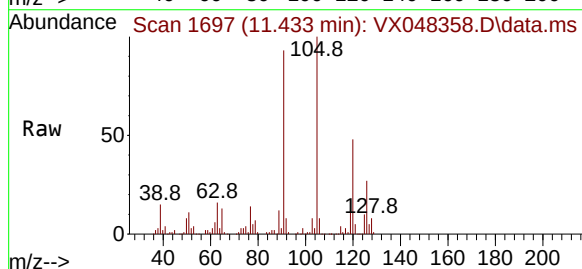
Manual Integrations
APPROVED

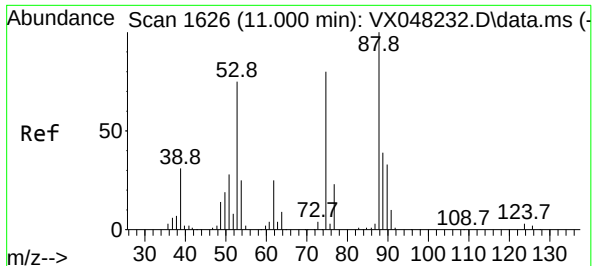
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#80
1,3,5-Trimethylbenzene
Concen: 20.556 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

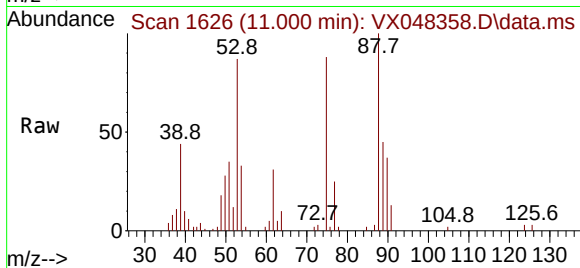
Tgt Ion:105 Resp: 121421
Ion Ratio Lower Upper
105 100
120 47.7 24.0 72.0





#81
trans-1,4-Dichloro-2-butene
Concen: 13.224 ug/l
RT: 11.000 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

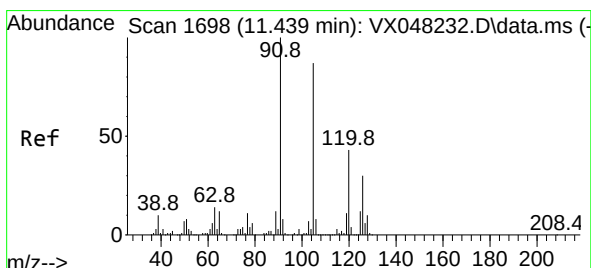
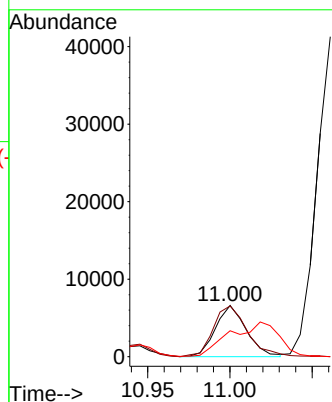
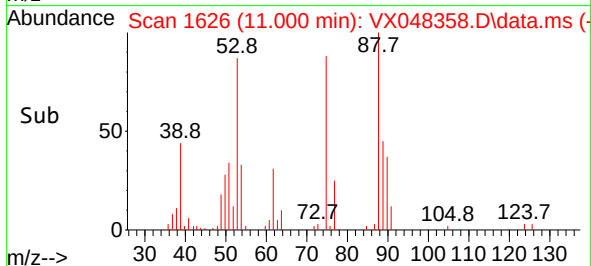
Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01



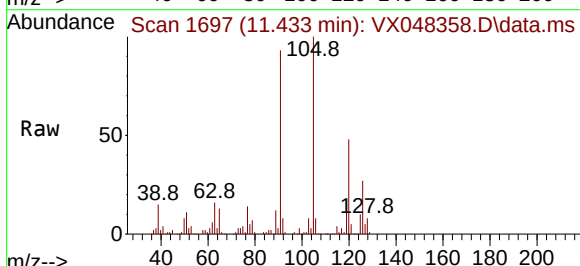
Tgt Ion: 75 Resp: 8614
Ion Ratio Lower Upper
75 100
53 109.9 79.5 119.3
89 108.0 36.8 55.2

Manual Integrations
APPROVED

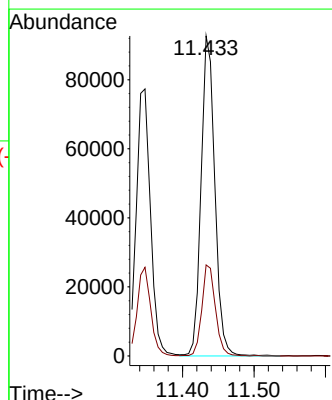
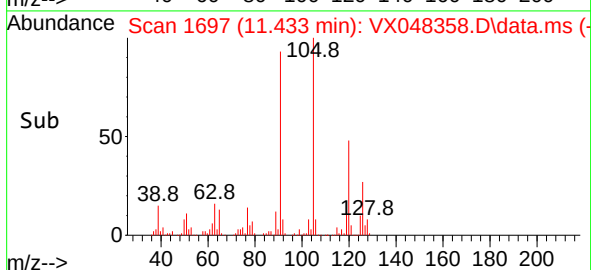
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025

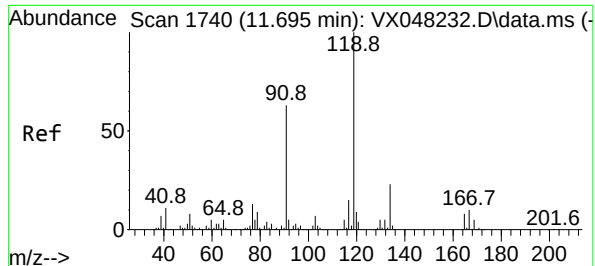


#82
4-Chlorotoluene
Concen: 20.807 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34



Tgt Ion: 91 Resp: 123759
Ion Ratio Lower Upper
91 100
126 28.1 14.1 42.4





#83

tert-Butylbenzene

Concen: 20.334 ug/l

RT: 11.695 min Scan# 1740

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

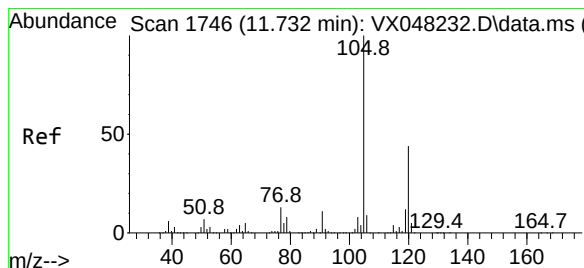
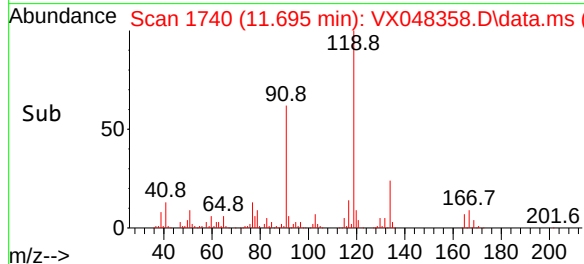
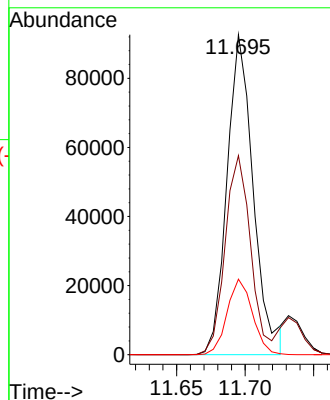
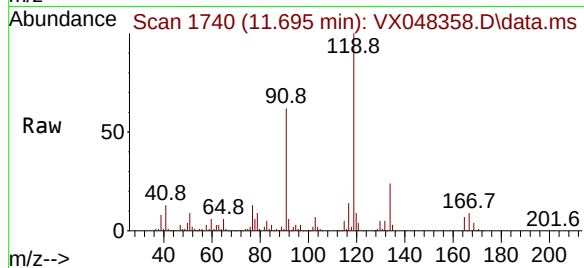
VX1027WBSD01

Tgt Ion:	119	Resp:	12340
Ion Ratio	Lower	Upper	
119	100		
91	60.6	30.3	91.0
134	22.8	11.4	34.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#84

1,2,4-Trimethylbenzene

Concen: 20.683 ug/l

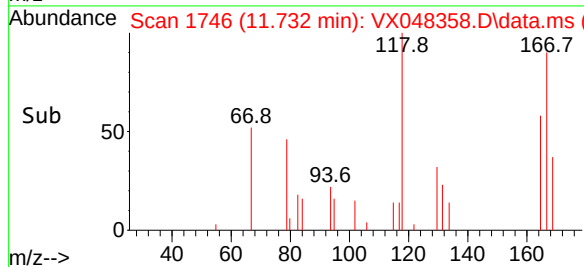
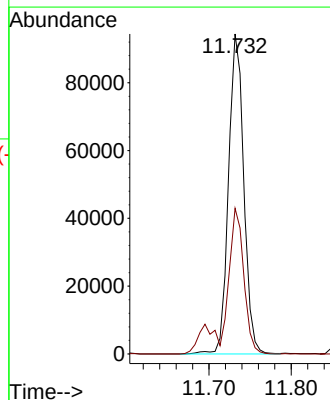
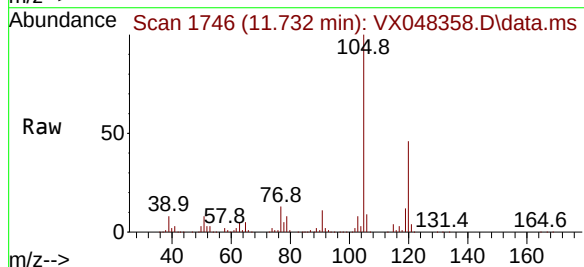
RT: 11.732 min Scan# 1746

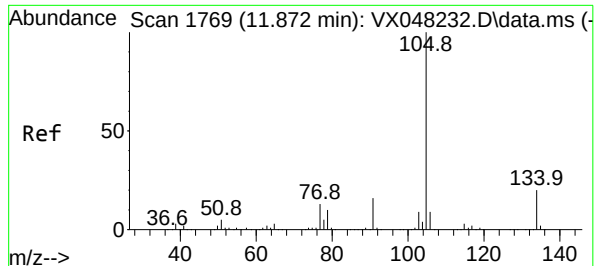
Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Tgt Ion:	105	Resp:	121926
Ion Ratio	Lower	Upper	
105	100		
120	43.6	22.1	66.5





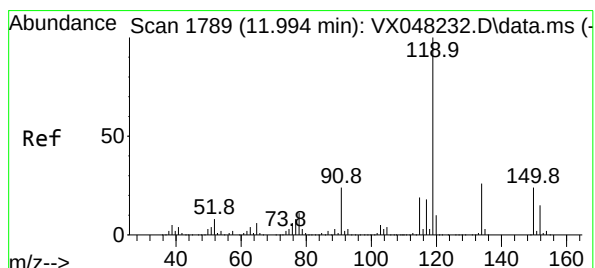
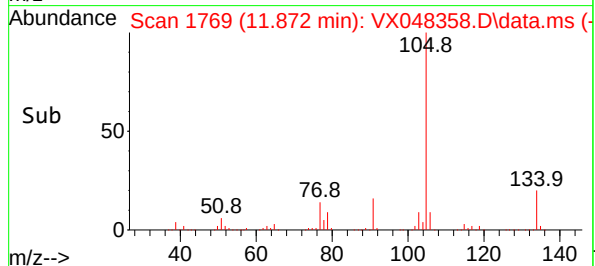
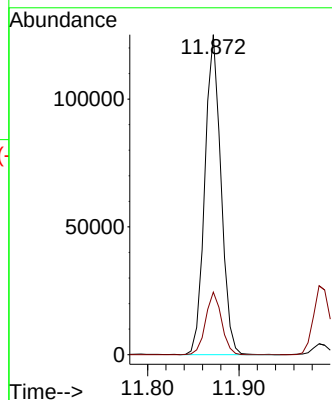
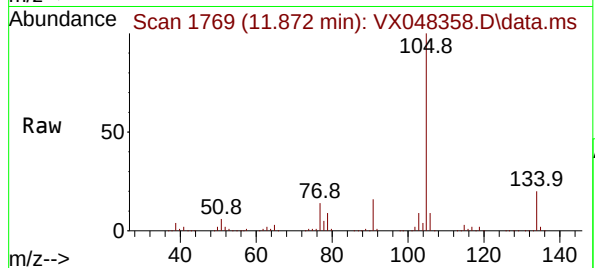
#85
sec-Butylbenzene
Concen: 20.929 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Instrument :
MSVOA_X
ClientSampleId :
VX1027WBSD01

Tgt Ion:105 Resp: 15281
Ion Ratio Lower Upper
105 100
134 19.3 10.1 30.1

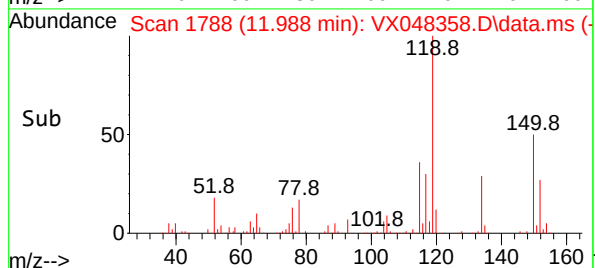
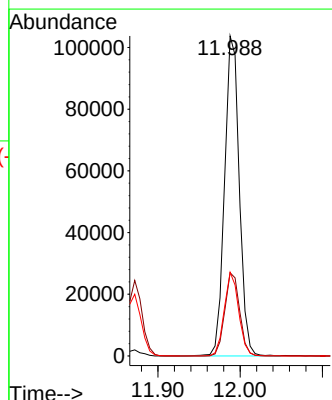
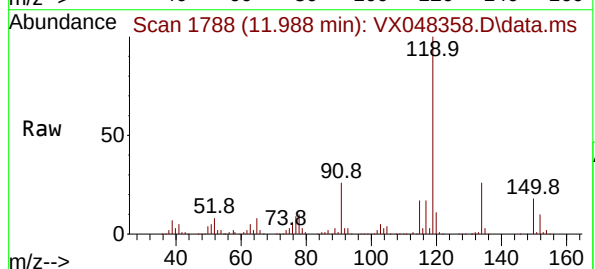
Manual Integrations
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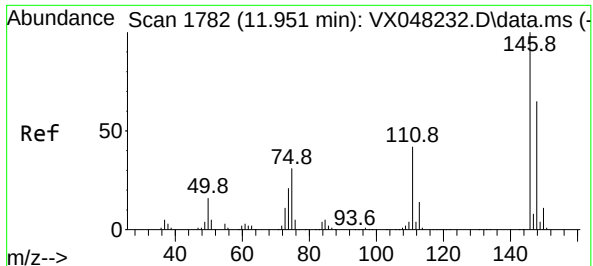
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#86
p-Isopropyltoluene
Concen: 20.452 ug/l
RT: 11.988 min Scan# 1788
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Tgt Ion:119 Resp: 129074
Ion Ratio Lower Upper
119 100
134 26.2 13.0 39.0
91 25.7 12.1 36.3





#87

1,3-Dichlorobenzene

Concen: 19.561 ug/l

RT: 11.951 min Scan# 1782

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion:146 Resp: 65998

Ion Ratio Lower Upper

146 100

111 42.5 20.4 61.2

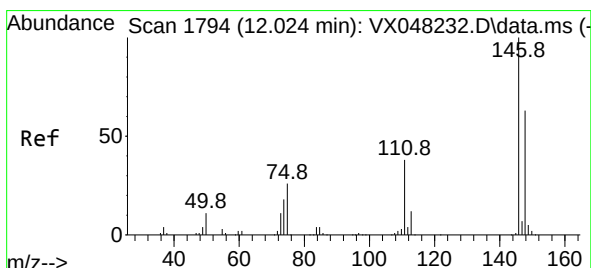
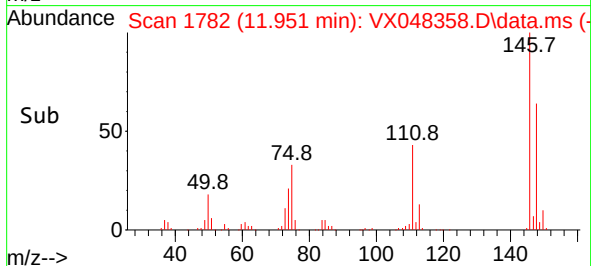
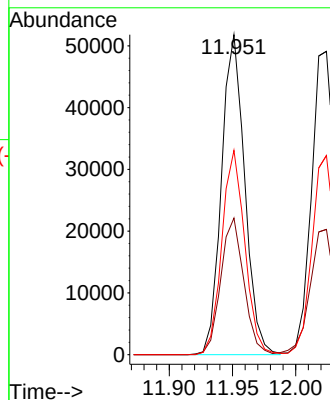
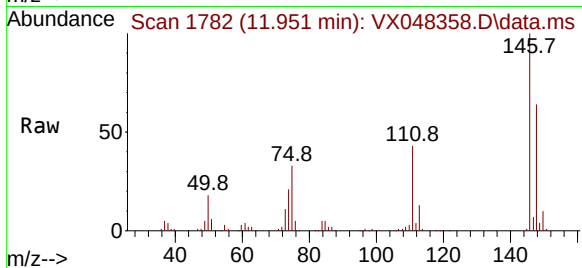
148 63.2 31.9 95.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#88

1,4-Dichlorobenzene

Concen: 19.217 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

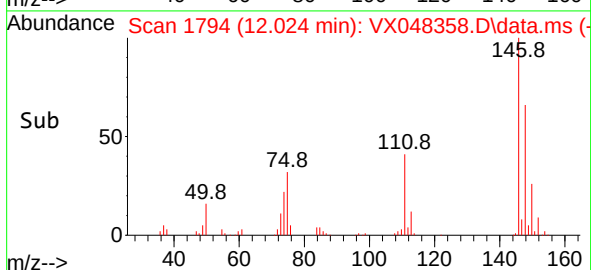
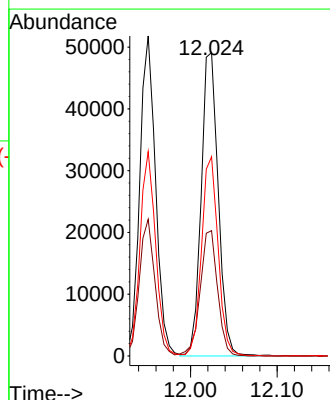
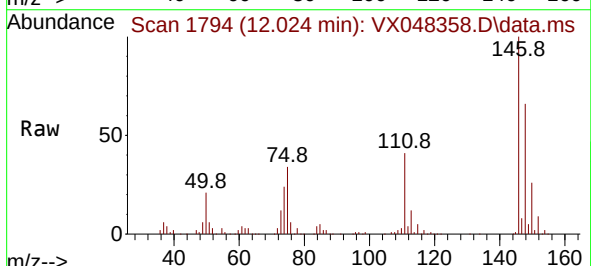
Tgt Ion:146 Resp: 67168

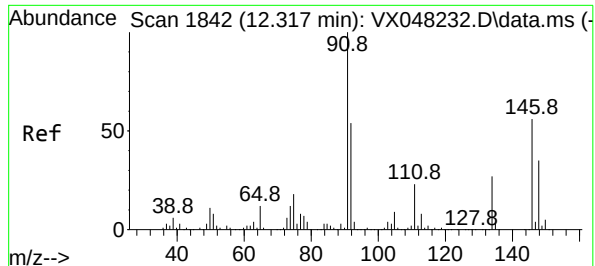
Ion Ratio Lower Upper

146 100

111 42.2 20.1 60.2

148 63.9 31.8 95.3





#89

n-Butylbenzene

Concen: 20.574 ug/l

RT: 12.311 min Scan# 1841

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion: 91 Resp: 11818

Ion Ratio Lower Upper

91 100

92 53.8 26.9 80.6

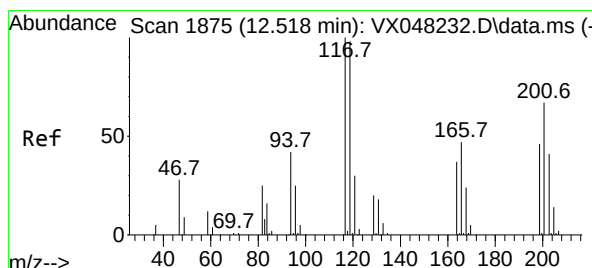
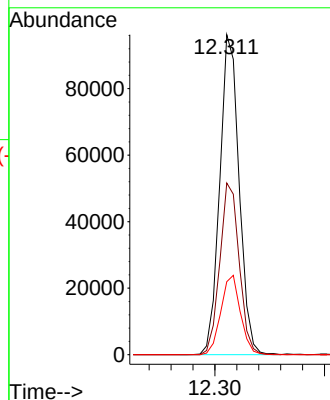
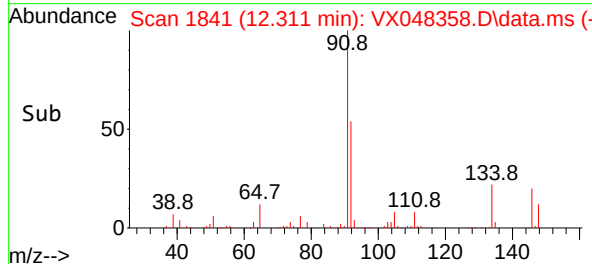
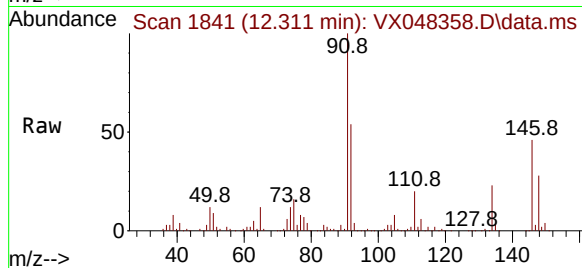
134 25.0 12.7 38.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#90

Hexachloroethane

Concen: 18.040 ug/l

RT: 12.518 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VX048358.D

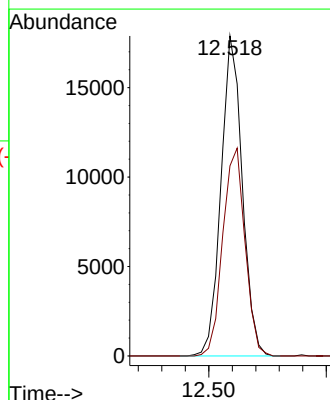
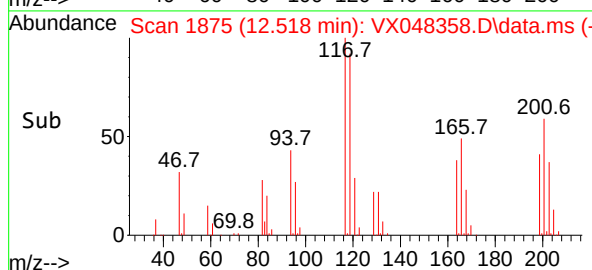
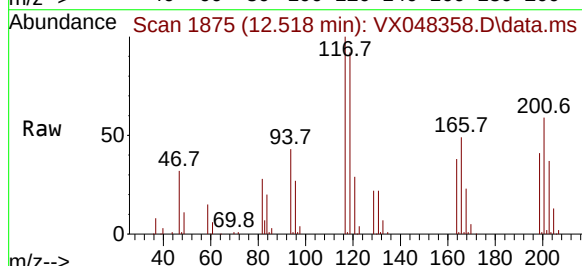
Acq: 27 Oct 2025 10:34

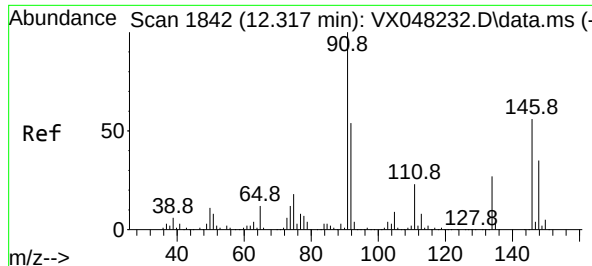
Tgt Ion:117 Resp: 22484

Ion Ratio Lower Upper

117 100

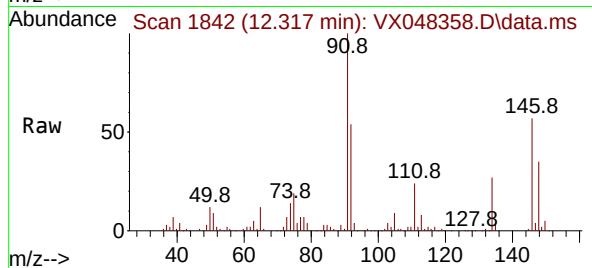
201 67.8 34.1 102.2





#91
1,2-Dichlorobenzene
Concen: 20.179 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. -0.000 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

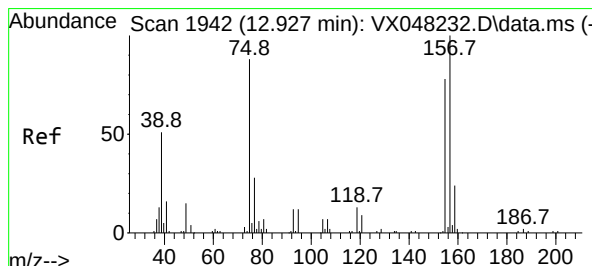
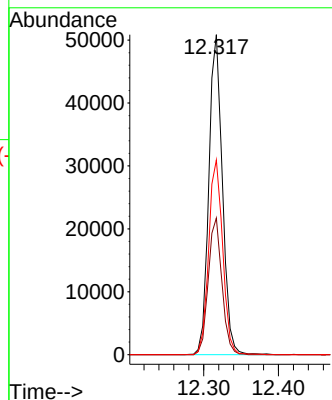
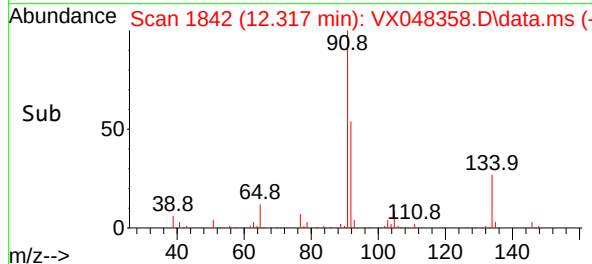
Instrument :
MSVOA_X
Client SampleId :
VX1027WBSD01



Tgt Ion:146 Resp: 6392
Ion Ratio Lower Upper
146 100
111 43.0 21.9 65.5
148 62.7 31.9 95.5

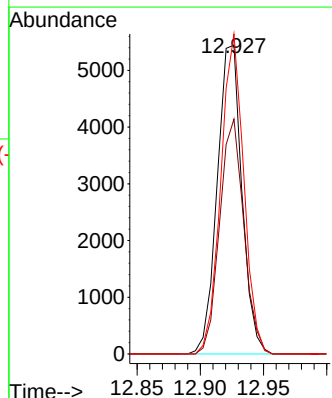
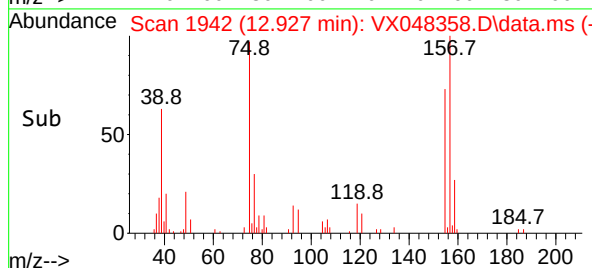
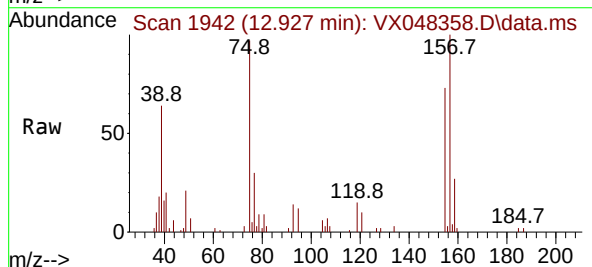
Manual Integrations
APPROVED

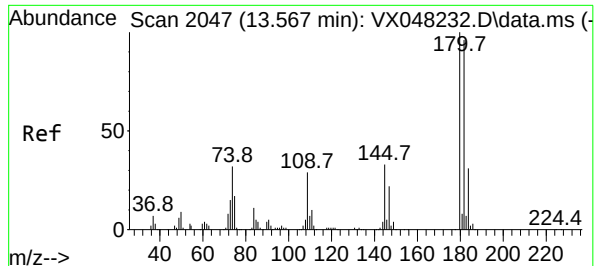
Reviewed By :John Carlone 10/28/2025
Supervised By :Mahesh Dadoda 10/28/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 18.640 ug/l
RT: 12.927 min Scan# 1942
Delta R.T. 0.006 min
Lab File: VX048358.D
Acq: 27 Oct 2025 10:34

Tgt Ion: 75 Resp: 7375
Ion Ratio Lower Upper
75 100
155 74.3 42.8 128.4
157 96.1 54.2 162.6





#93

1,2,4-Trichlorobenzene

Concen: 19.025 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

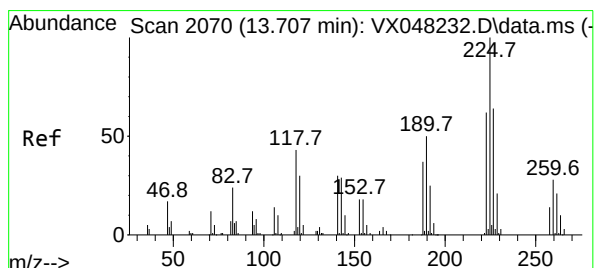
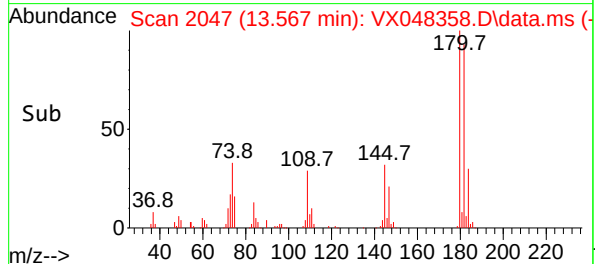
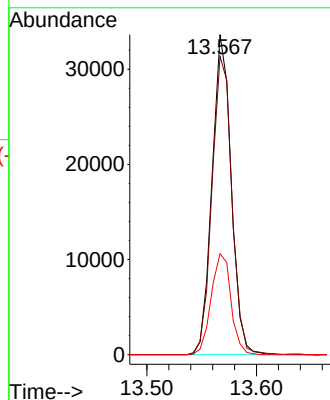
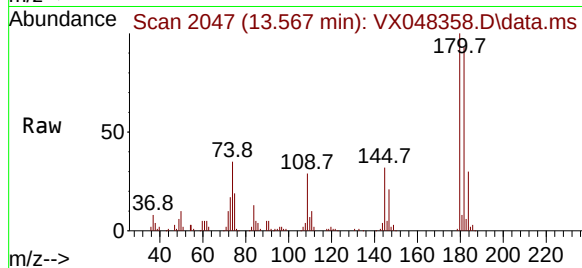
Tgt Ion:	180	Resp:	4075
Ion Ratio	Lower	Upper	
180	100		
182	96.8	47.3	142.0
145	32.7	16.3	48.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#94

Hexachlorobutadiene

Concen: 22.444 ug/l

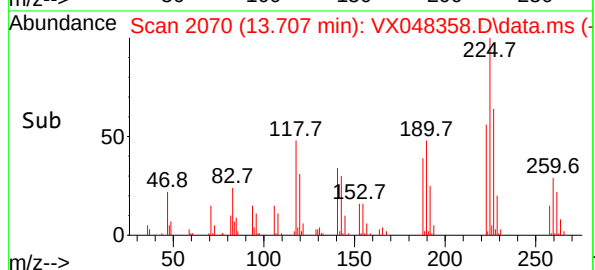
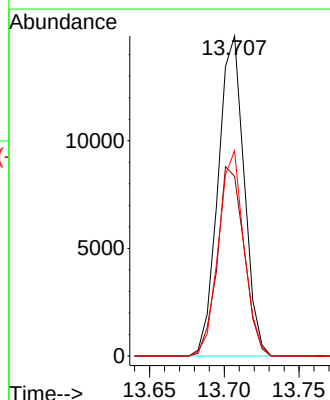
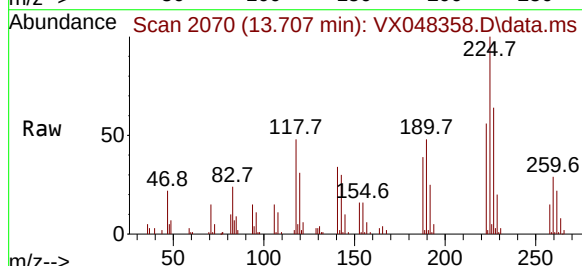
RT: 13.707 min Scan# 2070

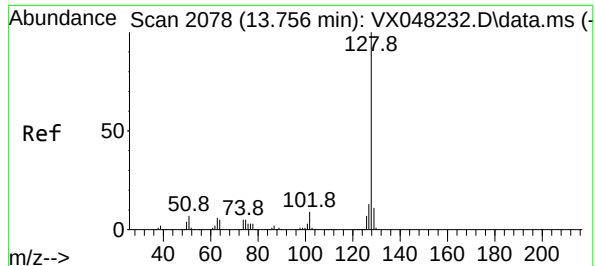
Delta R.T. 0.006 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Tgt Ion:	225	Resp:	17987
Ion Ratio	Lower	Upper	
225	100		
223	60.5	32.6	97.7
227	62.6	32.5	97.4





#95

Naphthalene

Concen: 18.483 ug/l

RT: 13.756 min Scan# 2078

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1027WBSD01

Tgt Ion:128 Resp: 104899

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

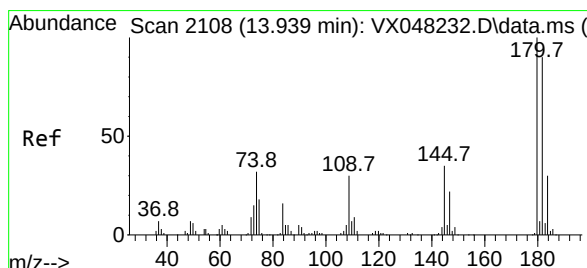
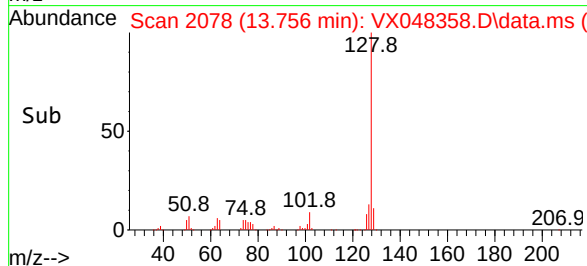
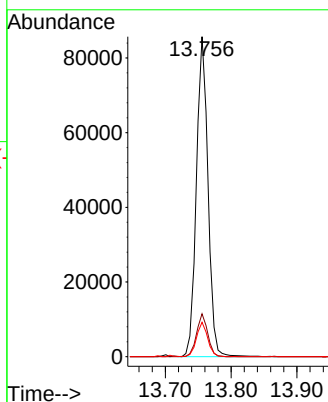
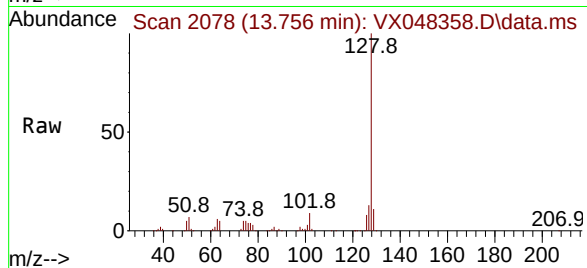
129 10.4 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 10/28/2025

Supervised By :Mahesh Dadoda 10/28/2025



#96

1,2,3-Trichlorobenzene

Concen: 19.800 ug/l

RT: 13.939 min Scan# 2108

Delta R.T. -0.000 min

Lab File: VX048358.D

Acq: 27 Oct 2025 10:34

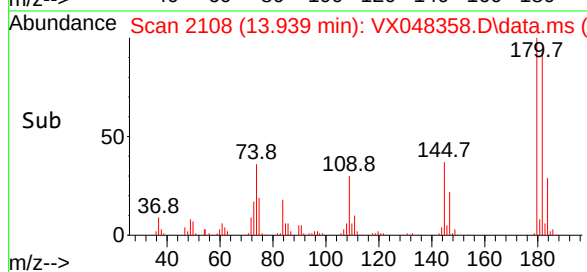
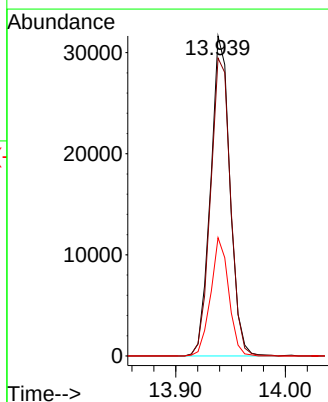
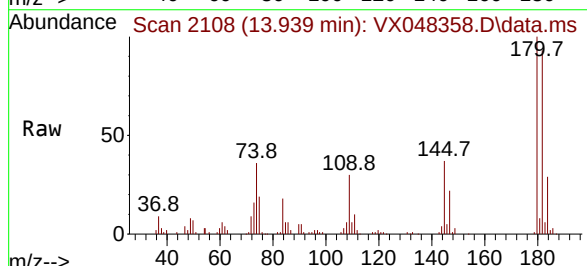
Tgt Ion:180 Resp: 38923

Ion Ratio Lower Upper

180 100

182 95.7 46.6 139.7

145 34.3 16.9 50.7



Manual Integration Report

Sequence:	VX102025	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC001	VX048229.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:03:22 AM	sam	10/21/2025 10:41:22 AM	Peak Integrated by Software
VSTDIC001	VX048229.D	1,4-Dichlorobenzene	JOHN	10/21/2025 8:03:22 AM	sam	10/21/2025 10:41:22 AM	Peak Integrated by Software
VSTDIC001	VX048229.D	Carbon Tetrachloride	JOHN	10/21/2025 8:03:22 AM	sam	10/21/2025 10:41:22 AM	Peak Integrated by Software
VSTDIC001	VX048229.D	Ethyl Acetate	JOHN	10/21/2025 8:03:22 AM	sam	10/21/2025 10:41:22 AM	Peak Integrated by Software
VSTDIC001	VX048229.D	Methacrylonitrile	JOHN	10/21/2025 8:03:22 AM	sam	10/21/2025 10:41:22 AM	Peak Integrated by Software
VSTDIC020	VX048231.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:03:30 AM	sam	10/21/2025 10:41:32 AM	Peak Integrated by Software
VSTDICCC050	VX048232.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:03:35 AM	sam	10/21/2025 10:41:38 AM	Peak Integrated by Software
VSTDIC100	VX048233.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:03:40 AM	sam	10/21/2025 10:42:36 AM	Peak Integrated by Software
VSTDIC150	VX048234.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:03:49 AM	sam	10/21/2025 10:43:04 AM	Peak Integrated by Software
VSTDIC005	VX048236.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:03:55 AM	sam	10/21/2025 10:41:42 AM	Peak Integrated by Software
VSTDIC005	VX048236.D	Ethyl Acetate	JOHN	10/21/2025 8:03:55 AM	sam	10/21/2025 10:41:42 AM	Peak Integrated by Software
VSTDIC005	VX048236.D	Methacrylonitrile	JOHN	10/21/2025 8:03:55 AM	sam	10/21/2025 10:41:42 AM	Peak Integrated by Software
VSTDICV050	VX048237.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:03:59 AM	sam	10/21/2025 10:41:51 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VX102025	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX048250.D	1,2,3-Trichloropropane	JOHN	10/21/2025 8:04:26 AM	sam	10/21/2025 10:42:06 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VX102725	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX048355.D	1,2,3-Trichloropropane	JOHN	10/28/2025 8:17:39 AM	MMDadoda	10/28/2025 1:15:44 PM	Peak Integrated by Software
VX1027WBS01	VX048357.D	1,2,3-Trichloropropane	JOHN	10/28/2025 8:17:44 AM	MMDadoda	10/28/2025 1:15:48 PM	Peak Integrated by Software
VX1027WBSD0 1	VX048358.D	1,2,3-Trichloropropane	JOHN	10/28/2025 8:17:50 AM	MMDadoda	10/28/2025 1:15:52 PM	Peak Integrated by Software
VSTDCCC050	VX048380.D	1,2,3-Trichloropropane	JOHN	10/28/2025 8:18:22 AM	MMDadoda	10/28/2025 1:15:56 PM	Peak Integrated by Software

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX102025

Review By	John Carlone	Review On	10/21/2025 8:15:04 AM
Supervise By	Semsettin Yesilyurt	Supervise On	10/21/2025 10:44:02 AM
SubDirectory	VX102025	HP Acquire Method	HP Processing Method 82X102025W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135849		
Initial Calibration Stds	VP135851,VP135852,VP135853,VP135854,VP135855,VP135856		
CCC	VP135850		
Internal Standard/PEM			
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX048226.D	20 Oct 2025 08:15	JC/MD	Ok
2	VSTDCCC050	VX048227.D	20 Oct 2025 10:13	JC/MD	Ok
3	IBLK	VX048228.D	20 Oct 2025 10:38	JC/MD	Not Ok
4	VSTDICC001	VX048229.D	20 Oct 2025 10:59	JC/MD	Ok,M
5	VSTDICC005	VX048230.D	20 Oct 2025 11:20	JC/MD	Not Ok
6	VSTDICC020	VX048231.D	20 Oct 2025 11:40	JC/MD	Ok,M
7	VSTDICCC050	VX048232.D	20 Oct 2025 12:01	JC/MD	Ok,M
8	VSTDICC100	VX048233.D	20 Oct 2025 12:22	JC/MD	Ok,M
9	VSTDICC150	VX048234.D	20 Oct 2025 12:43	JC/MD	Ok,M
10	IBLK	VX048235.D	20 Oct 2025 13:04	JC/MD	Ok
11	VSTDICC005	VX048236.D	20 Oct 2025 13:49	JC/MD	Ok,M
12	VSTDICV050	VX048237.D	20 Oct 2025 14:28	JC/MD	Ok,M
13	VX1020MBL01	VX048238.D	20 Oct 2025 14:56	JC/MD	Ok
14	VX1020WBL01	VX048239.D	20 Oct 2025 15:23	JC/MD	Ok
15	VX1020WBS01	VX048240.D	20 Oct 2025 15:50	JC/MD	Ok,M
16	Q3371-03	VX048241.D	20 Oct 2025 16:18	JC/MD	ReRun
17	Q3371-06	VX048242.D	20 Oct 2025 16:38	JC/MD	ReRun
18	Q3371-01	VX048243.D	20 Oct 2025 16:59	JC/MD	ReRun
19	Q3371-02	VX048244.D	20 Oct 2025 17:20	JC/MD	ReRun
20	Q3371-04	VX048245.D	20 Oct 2025 17:41	JC/MD	Ok
21	Q3371-05	VX048246.D	20 Oct 2025 18:02	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QCBatch ID # VX102025

Review By	John Carlone	Review On	10/21/2025 8:15:04 AM
Supervise By	Semsettin Yesilyurt	Supervise On	10/21/2025 10:44:02 AM
SubDirectory	VX102025	HP Acquire Method	HP Processing Method 82X102025W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135849		
Initial Calibration Stds	VP135851,VP135852,VP135853,VP135854,VP135855,VP135856		
CCC	VP135850		
Internal Standard/PEM			
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	VX1020WBSD01	VX048247.D	20 Oct 2025 18:22	JC/MD	Ok,M
23	VX1020MBS01	VX048248.D	20 Oct 2025 18:43	JC/MD	Ok,M
24	Q3390-01	VX048249.D	20 Oct 2025 19:04	JC/MD	Ok
25	VSTDCCC050	VX048250.D	20 Oct 2025 19:25	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX102725

Review By	John Carlone	Review On	10/28/2025 8:26:50 AM
Supervise By	Maresh Dadoda	Supervise On	10/28/2025 1:16:04 PM
SubDirectory	VX102725	HP Acquire Method	HP Processing Method 82X102025W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135940		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135941,VP135942		

Sr#	Sampleld	Data File Name	Date-Time	Operator	Status
1	BFB	VX048354.D	27 Oct 2025 08:05	JC/MD	Ok
2	VSTDCCC050	VX048355.D	27 Oct 2025 09:05	JC/MD	Ok,M
3	VX1027WBL01	VX048356.D	27 Oct 2025 09:37	JC/MD	Ok
4	VX1027WBS01	VX048357.D	27 Oct 2025 10:04	JC/MD	Ok,M
5	VX1027WBSD01	VX048358.D	27 Oct 2025 10:34	JC/MD	Ok,M
6	Q3446-01	VX048359.D	27 Oct 2025 10:54	JC/MD	Dilution
7	Q3446-02	VX048360.D	27 Oct 2025 11:15	JC/MD	Ok
8	Q3446-03	VX048361.D	27 Oct 2025 11:36	JC/MD	Dilution
9	Q3446-04	VX048362.D	27 Oct 2025 11:56	JC/MD	Dilution
10	Q3446-05	VX048363.D	27 Oct 2025 12:17	JC/MD	Dilution
11	Q3446-06	VX048364.D	27 Oct 2025 12:38	JC/MD	Dilution
12	Q3446-07	VX048365.D	27 Oct 2025 12:58	JC/MD	Dilution
13	Q3446-08	VX048366.D	27 Oct 2025 13:19	JC/MD	Dilution
14	IBLK	VX048367.D	27 Oct 2025 13:40	JC/MD	Ok
15	IBLK	VX048368.D	27 Oct 2025 14:00	JC/MD	Ok
16	Q3446-01DL	VX048369.D	27 Oct 2025 14:21	JC/MD	Ok
17	Q3446-03DL	VX048370.D	27 Oct 2025 14:42	JC/MD	Ok
18	Q3446-04DL	VX048371.D	27 Oct 2025 15:02	JC/MD	Ok
19	Q3446-05DL	VX048372.D	27 Oct 2025 15:23	JC/MD	Ok
20	Q3446-06DL	VX048373.D	27 Oct 2025 15:44	JC/MD	Ok
21	Q3446-07DL	VX048374.D	27 Oct 2025 16:04	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX102725

Review By	John Carlone	Review On	10/28/2025 8:26:50 AM
Supervise By	Maresh Dadoda	Supervise On	10/28/2025 1:16:04 PM
SubDirectory	VX102725	HP Acquire Method	HP Processing Method 82X102025W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135940		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135941,VP135942		

22	Q3446-08DL	VX048375.D	27 Oct 2025 16:25	JC/MD	Ok
23	Q3447-02	VX048376.D	27 Oct 2025 16:45	JC/MD	Ok
24	Q3447-04	VX048377.D	27 Oct 2025 17:06	JC/MD	Ok
25	Q3447-06	VX048378.D	27 Oct 2025 17:26	JC/MD	Ok
26	Q3447-08	VX048379.D	27 Oct 2025 17:47	JC/MD	Ok
27	VSTDCCC050	VX048380.D	27 Oct 2025 18:07	JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX102025

Review By	John Carlone	Review On	10/21/2025 8:15:04 AM
Supervise By	Semsettin Yesilyurt	Supervise On	10/21/2025 10:44:02 AM
SubDirectory	VX102025	HP Acquire Method	HP Processing Method 82X102025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP135849
Initial Calibration Stds	VP135851,VP135852,VP135853,VP135854,VP135855,VP135856
CCC	VP135850
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX048226.D	20 Oct 2025 08:15		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX048227.D	20 Oct 2025 10:13		JC/MD	Ok
3	IBLK	IBLK	VX048228.D	20 Oct 2025 10:38		JC/MD	Not Ok
4	VSTDICC001	VSTDICC001	VX048229.D	20 Oct 2025 10:59	LR-58,94	JC/MD	Ok,M
5	VSTDICC005	VSTDICC005	VX048230.D	20 Oct 2025 11:20		JC/MD	Not Ok
6	VSTDICC020	VSTDICC020	VX048231.D	20 Oct 2025 11:40		JC/MD	Ok,M
7	VSTDICCC050	VSTDICCC050	VX048232.D	20 Oct 2025 12:01		JC/MD	Ok,M
8	VSTDICC100	VSTDICC100	VX048233.D	20 Oct 2025 12:22		JC/MD	Ok,M
9	VSTDICC150	VSTDICC150	VX048234.D	20 Oct 2025 12:43		JC/MD	Ok,M
10	IBLK	IBLK	VX048235.D	20 Oct 2025 13:04		JC/MD	Ok
11	VSTDICC005	VSTDICC005	VX048236.D	20 Oct 2025 13:49		JC/MD	Ok,M
12	VSTDICV050	ICVVX102025	VX048237.D	20 Oct 2025 14:28	pH#Lot#V12668	JC/MD	Ok,M
13	VX1020MBL01	VX1020MBL01	VX048238.D	20 Oct 2025 14:56		JC/MD	Ok
14	VX1020WBL01	VX1020WBL01	VX048239.D	20 Oct 2025 15:23		JC/MD	Ok
15	VX1020WBS01	VX1020WBS01	VX048240.D	20 Oct 2025 15:50		JC/MD	Ok,M
16	Q3371-03	VPB184-HYD-2025101	VX048241.D	20 Oct 2025 16:18	vial A pH<2 Surrogate Fail	JC/MD	ReRun
17	Q3371-06	VPB184-HYD-2025101	VX048242.D	20 Oct 2025 16:38	vial A pH<2 Surrogate Fail	JC/MD	ReRun
18	Q3371-01	BP-VPB-184-TB-20251	VX048243.D	20 Oct 2025 16:59	vial A pH<2 TB; Surrogate Fail	JC/MD	ReRun

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX102025

Review By	John Carlone	Review On	10/21/2025 8:15:04 AM
Supervise By	Semsettin Yesilyurt	Supervise On	10/21/2025 10:44:02 AM
SubDirectory	VX102025	HP Acquire Method	HP Processing Method 82X102025W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135849		
Initial Calibration Stds	VP135851,VP135852,VP135853,VP135854,VP135855,VP135856		
CCC	VP135850		
Internal Standard/PEM			
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q3371-02	BP-VPB-184-EB-20251	VX048244.D	20 Oct 2025 17:20	vial A pH<2 EB; Surrogate Fail; Hit of com.#16	JC/MD	ReRun
20	Q3371-04	BP-VPB-184-GW-915-9	VX048245.D	20 Oct 2025 17:41	vial A pH<2	JC/MD	Ok
21	Q3371-05	BP-VPB-184-GW-920-9	VX048246.D	20 Oct 2025 18:02	vial A pH<2	JC/MD	Ok
22	VX1020WBSD01	VX1020WBSD01	VX048247.D	20 Oct 2025 18:22		JC/MD	Ok,M
23	VX1020MBS01	VX1020MBS01	VX048248.D	20 Oct 2025 18:43		JC/MD	Ok,M
24	Q3390-01	4174	VX048249.D	20 Oct 2025 19:04	cloth material	JC/MD	Ok
25	VSTDCCC050	VSTDCCC050EC	VX048250.D	20 Oct 2025 19:25		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX102725

Review By	John Carlone	Review On	10/28/2025 8:26:50 AM
Supervise By	Maresh Dadoda	Supervise On	10/28/2025 1:16:04 PM
SubDirectory	VX102725	HP Acquire Method	HP Processing Method 82X102025W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP135940
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135941,VP135942

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX048354.D	27 Oct 2025 08:05		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX048355.D	27 Oct 2025 09:05	pH#Lot#V12668	JC/MD	Ok,M
3	VX1027WBL01	VX1027WBL01	VX048356.D	27 Oct 2025 09:37		JC/MD	Ok
4	VX1027WBS01	VX1027WBS01	VX048357.D	27 Oct 2025 10:04		JC/MD	Ok,M
5	VX1027WBSD01	VX1027WBSD01	VX048358.D	27 Oct 2025 10:34		JC/MD	Ok,M
6	Q3446-01	SB-14	VX048359.D	27 Oct 2025 10:54	vial A pH#5.0 Need 100X	JC/MD	Dilution
7	Q3446-02	SB-15	VX048360.D	27 Oct 2025 11:15	vial A pH#5.0	JC/MD	Ok
8	Q3446-03	SB-16	VX048361.D	27 Oct 2025 11:36	vial A pH#5.0 Need 100X	JC/MD	Dilution
9	Q3446-04	SB-17	VX048362.D	27 Oct 2025 11:56	vial A pH#5.0 Need 100X	JC/MD	Dilution
10	Q3446-05	SB-18	VX048363.D	27 Oct 2025 12:17	vial A pH#5.0 Need 50X	JC/MD	Dilution
11	Q3446-06	SB-19	VX048364.D	27 Oct 2025 12:38	vial A pH#5.0 Need 50X	JC/MD	Dilution
12	Q3446-07	SB-20	VX048365.D	27 Oct 2025 12:58	vial A pH#5.0 Need 50X	JC/MD	Dilution
13	Q3446-08	SB-21	VX048366.D	27 Oct 2025 13:19	vial A pH#5.0 Need 50X	JC/MD	Dilution
14	IBLK	IBLK	VX048367.D	27 Oct 2025 13:40		JC/MD	Ok
15	IBLK	IBLK	VX048368.D	27 Oct 2025 14:00		JC/MD	Ok
16	Q3446-01DL	SB-14DL	VX048369.D	27 Oct 2025 14:21	vial B pH#5.0	JC/MD	Ok
17	Q3446-03DL	SB-16DL	VX048370.D	27 Oct 2025 14:42	vial B pH#5.0	JC/MD	Ok
18	Q3446-04DL	SB-17DL	VX048371.D	27 Oct 2025 15:02	vial B pH#5.0	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX102725

Review By	John Carlone	Review On	10/28/2025 8:26:50 AM
Supervise By	Maresh Dadoda	Supervise On	10/28/2025 1:16:04 PM
SubDirectory	VX102725	HP Acquire Method	HP Processing Method 82X102025W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135940		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135941,VP135942		

19	Q3446-05DL	SB-18DL	VX048372.D	27 Oct 2025 15:23	vial B pH#5.0	JC/MD	Ok
20	Q3446-06DL	SB-19DL	VX048373.D	27 Oct 2025 15:44	vial B pH#5.0	JC/MD	Ok
21	Q3446-07DL	SB-20DL	VX048374.D	27 Oct 2025 16:04	vial B pH#5.0	JC/MD	Ok
22	Q3446-08DL	SB-21DL	VX048375.D	27 Oct 2025 16:25	vial B pH#5.0	JC/MD	Ok
23	Q3447-02	P001-TW1-251023-01	VX048376.D	27 Oct 2025 16:45	vial A pH#5.0	JC/MD	Ok
24	Q3447-04	P001-TW2-251023-01	VX048377.D	27 Oct 2025 17:06	vial A pH#5.0	JC/MD	Ok
25	Q3447-06	P001-TW3-251023-01	VX048378.D	27 Oct 2025 17:26	vial A pH#5.0	JC/MD	Ok
26	Q3447-08	P001-TW4-251023-01	VX048379.D	27 Oct 2025 17:47	vial A pH#5.0	JC/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VX048380.D	27 Oct 2025 18:07		JC/MD	Ok,M

M : Manual Integration

SOP ID :	M1311-TCLP-16	
SDG No :	N/A	Start Prep Date : 10/23/2025 Time : 15:30
Welgh By :	JP	End Prep Date : 10/24/2025 Time : 08:35
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: 24 °C
Filter By :	JP	Final Room Temperature: 22 °C
Pippete ID :	WC	TCLP Technician Signature : 10
Tumbler ID :	ZHE-1 / ZHE-2	Supervisor By : 12
TCLP Filter ID :	60828725	

Standarded Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	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:

ALL ZHE samples are extracted and given as vial A & B. Leck checked after 10 minutes of tumbling. TUMBLER
ZHE-1 /ZHE-2 checked.30 rpm.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/27/25 10:00	JP 101200m	101200m
	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
PB170240TB	LEB240	20	N/A	500	N/A	N/A	N/A	4.94	N/A	ZHE-2
Q3439-04	TP-9	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q3439-08	TP-10	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q3440-04	JB-2	03	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q3446-01	SB-14	04	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q3446-02	SB-15	05	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q3446-03	SB-16	06	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q3446-04	SB-17	07	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q3446-05	SB-18	08	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q3446-06	SB-19	09	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q3446-07	SB-20	10	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q3446-08	SB-21	11	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q3447-02	P001-TW1-251023-01	12	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q3447-04	P001-TW2-251023-01	13	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q3447-06	P001-TW3-251023-01	14	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q3447-08	P001-TW4-251023-01	15	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q3449-06	CF-620-COMP-41	16	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q3451-04	TP-11	17	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q3451-08	TP-12	18	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q3452-04	JB-1	19	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB170240TB	LEB240	N/A	N/A	N/A	N/A	N/A	N/A
Q3439-04	TP-9	N/A	N/A	N/A	N/A	100	N/A
Q3439-08	TP-10	N/A	N/A	N/A	N/A	100	N/A
Q3440-04	JB-2	N/A	N/A	N/A	N/A	100	N/A
Q3446-01	SB-14	N/A	N/A	N/A	N/A	100	N/A
Q3446-02	SB-15	N/A	N/A	N/A	N/A	100	N/A
Q3446-03	SB-16	N/A	N/A	N/A	N/A	100	N/A
Q3446-04	SB-17	N/A	N/A	N/A	N/A	100	N/A
Q3446-05	SB-18	N/A	N/A	N/A	N/A	100	N/A
Q3446-06	SB-19	N/A	N/A	N/A	N/A	100	N/A
Q3446-07	SB-20	N/A	N/A	N/A	N/A	100	N/A
Q3446-08	SB-21	N/A	N/A	N/A	N/A	100	N/A
Q3447-02	P001-TW1-251023-01	N/A	N/A	N/A	N/A	100	N/A
Q3447-04	P001-TW2-251023-01	N/A	N/A	N/A	N/A	100	N/A
Q3447-06	P001-TW3-251023-01	N/A	N/A	N/A	N/A	100	N/A
Q3447-08	P001-TW4-251023-01	N/A	N/A	N/A	N/A	100	N/A
Q3449-06	CF-620-COMP-41	N/A	N/A	N/A	N/A	100	N/A
Q3451-04	TP-11	N/A	N/A	N/A	N/A	100	N/A
Q3451-08	TP-12	N/A	N/A	N/A	N/A	100	N/A
Q3452-04	JB-1	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP ZHE Q3452

WorkList ID : 192674

Department : TCLP Extraction

Date : 10-24-2025 10:55:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3439-04	TP-9	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D41	10/22/2025	1311 ZHE
Q3439-08	TP-10	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D41	10/23/2025	1311 ZHE
Q3440-04	JB-2	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D41	10/22/2025	1311 ZHE
Q3446-01	SB-14	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D31	10/23/2025	1311 ZHE
Q3446-02	SB-15	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D31	10/23/2025	1311 ZHE
Q3446-03	SB-16	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D31	10/23/2025	1311 ZHE
Q3446-04	SB-17	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D31	10/23/2025	1311 ZHE
Q3446-05	SB-18	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D31	10/23/2025	1311 ZHE
Q3446-06	SB-19	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D31	10/23/2025	1311 ZHE
Q3446-07	SB-20	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D31	10/23/2025	1311 ZHE
Q3446-08	SB-21	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D31	10/23/2025	1311 ZHE
Q3447-02	P001-TW1-251023-01	Solid	TCLP ZHE Extraction	Cool 4 deg C	ROYF02	D41	10/23/2025	1311 ZHE
Q3447-04	P001-TW2-251023-01	Solid	TCLP ZHE Extraction	Cool 4 deg C	ROYF02	D41	10/23/2025	1311 ZHE
Q3447-06	P001-TW3-251023-01	Solid	TCLP ZHE Extraction	Cool 4 deg C	ROYF02	D41	10/23/2025	1311 ZHE
Q3447-08	P001-TW4-251023-01	Solid	TCLP ZHE Extraction	Cool 4 deg C	ROYF02	D41	10/23/2025	1311 ZHE
Q3449-06	CF-620-COMP-41	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D21	10/23/2025	1311 ZHE
Q3451-04	TP-11	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D31	10/23/2025	1311 ZHE
Q3451-08	TP-12	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D31	10/23/2025	1311 ZHE
Q3452-04	JB-1	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D31	10/24/2025	1311 ZHE

Date/Time

10/24/25 11:30

Raw Sample Received by:

SO WOC

Raw Sample Relinquished by:

ASU

Date/Time

10/24/25

14:30

Raw Sample Received by:

ASU

Raw Sample Relinquished by:

SO WOC

Prep Standard - Chemical Standard Summary

Order ID : Q3447

Test : TCLP VOA

Prepbatch ID :

Sequence ID/Qc Batch ID: VX102725,

Standard ID :

VP134142,VP134149,VP134956,VP134957,VP135552,VP135834,VP135878,VP135940,VP135941,VP135942,

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,V14909,V14926,V14928,V14929,V14951,V14952,V15073,V15074,V15075,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>
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

<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

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>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP135834	10/17/2025	11/16/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								10/17/2025

FROM 1.00000ml of V15073 + 1.50000ml of V15074 + 1.50000ml of V15075 + 21.00000ml of V14928 = 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>
617	8260 Surrogate, 400PPM	VP135878	10/22/2025	04/20/2026	Semsettin Yesilyurt	None	None	Maresh Dadoda
								10/23/2025

FROM 0.40000ml of V14909 + 24.60000ml of V14926 = 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	VP135940	10/27/2025	10/28/2025	John Carlone	None	None	Maresh Dadoda
								10/29/2025

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	VP135941	10/27/2025	10/28/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP135878 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135552 + 0.01250ml of VP135834 = 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	VP135942	10/27/2025	10/28/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP135878 + 0.00800ml of VP134956 + 0.01250ml of VP134149 + 0.01250ml of VP135552 + 0.01250ml of VP135834 = 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	04/22/2026	10/22/2025 / sam	03/24/2025 / SAM	V14909

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	04/20/2026	10/20/2025 / sam	05/09/2025 / SAM	V14926

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

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)	101625	11/16/2025	10/17/2025 / sam	10/17/2025 / sam	V15073

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	101625	11/16/2025	10/17/2025 / sam	10/17/2025 / sam	V15074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	101625	11/16/2025	10/17/2025 / sam	10/17/2025 / sam	V15075

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

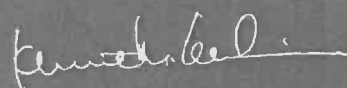
Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
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Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance



Ree 03117/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

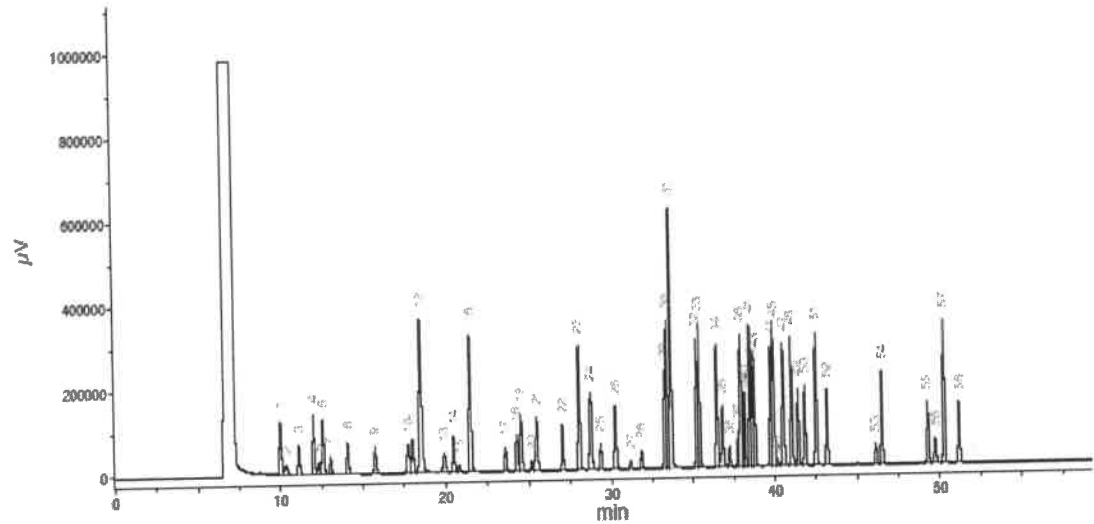
Compound	(KMe)	Lot	Dir.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information			
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc. (µg/mL)	Uncertainty	(+/-) (µg/mL)	CASE	OSHA PEL (TWA)	LD50
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 2450mg/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	NA	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	NA	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	NA	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	NA	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 2460mg/kg	
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H)(skin)	or-rat 120mg/kg	
11. Methyl acrylate	(0755)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	or-rat 277mg/kg	
12. Methyl methacrylate	(0404)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 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	NA	N/A	
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (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	NA	N/A	
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	NA	N/A	
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	NA	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	NA	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 1235mg/kg	
22. 1,1-Dichloroethane	32261	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg	
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg	
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg	
25. Chloroform	95321	020724	0.10	10.00	20002.9	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	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	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	NA	N/A	
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 725mg/kg	
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	96-12-8	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	40005.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg	
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	NA	or-mus 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	NA	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	NA	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	NA	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	NA	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	96-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg	
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 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	NA	N/A	
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg	
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	NA	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	1999.8	22.9	87-81-6	NA	or-mus 1390mg/kg	
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg	
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-63-6	NA	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	23.0	108-87-6	NA	or-rat 5000mg/kg	
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	109-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg	
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	109-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg	
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-06-6	NA	N/A	
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-6	NA	N/A	
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2240mg/kg	
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	96-49-8	50 ppm (250mg/m3/8H)	or-rat 2290mg/kg	
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	NA	or-rat 3900mg/kg	
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	NA	or-rat 2100mg/kg	
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.												



Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetone	12.60
5	Isodimethane	12.21
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	Methoxyvinylbenzene/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	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.13
21	Dibromomethane/2,2-Dichloropropane	25.46
22	cis-1,2-Dichloroethane	27.07
23	Toluene	28.03
24	Ethyl methacrylate/Trans-1,2-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethane/1,2-Dichloropropane	30.94
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	32.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.53
33	Styrene	35.70
34	Isopropylbenzene/Bromofarm	35.78
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	n-Propylbenzene	37.77
38	trans-1,4-Dichloro-3-butene	37.92
39	Bromobenzene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,3,5-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Trichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol METHYL ALCOHOL	67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption	ingestion and inhalation.
Personal protective equipment	Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing.	Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



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	Dir.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information			
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	Uncertainty	(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 2450mg/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)	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	or-rat 14800mg/kg	
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 75mg/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 2460mg/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 787mg/kg	
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	or-rat 780mg/kg	
14. 2-Nitropropane	(0461)	H4002JX	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)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	or-rat 43g/kg	
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 915mg/kg	
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg	
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	or-rat 848mg/kg	
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg	
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg	
22. 1,1-Dichloroethane	32261	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg	
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg	
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg	
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg	
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 106mg/kg	
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	or-rat 725mg/kg	
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	N/A	
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	or-rat 2629mg/kg	
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg	
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	86-12-8	0.001 ppm	or-rat 170mg/kg	
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg	
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40051.0	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	40018.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg	
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	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	96-18-4	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	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg	
46. Bromobenzene	35162	050823	0.05	5.00	40003.8	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	40004.8	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 (435mg/m3/8H)	or-rat 5000mg/kg	
52. Toluene	35162	050823	0.05	5.00	40008.2	2000	NA	NA	0.017	NA	NA	1999.8	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	1999.7	22.9	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	108-87-6	N/A	or-rat 5000mg/kg	
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	109-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg	
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-06-6	N/A	N/A	
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-6	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-mus 1062mg/kg	
64.																	

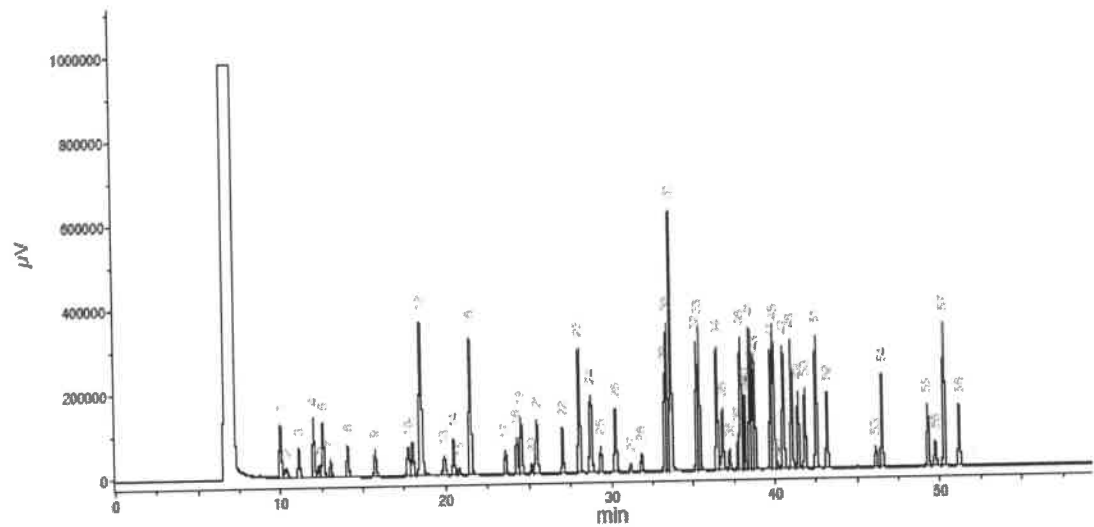


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

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	Hexamethylcyclotriphosphorotriazine/Hexyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromodichloromethane	25.46
21	Dibromomethane/2,2-Dichloropropane	27.07
22	cis-1,2-Dichloroethane	28.03
23	Toluene	28.73
24	Ethyl methacrylate/Trans-1,2-Dichloroethane	29.34
25	1,1,2-Trichloroethane	30.94
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	32.84
28	1,2-Dibromomethane	33.26
29	Chlorobenzene	33.40
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.85
31	m-Xylene/p-Xylene	35.53
32	o-Xylene	35.70
33	Styrene	35.79
34	Isopropylbenzene/Bromofarm	36.48
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	n-Propylbenzene	37.77
38	trans-1,4-Dichloro-3-butene	37.92
39	Bromobenzene	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	49.28
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#: **072324Q**

<i>Justin Dippold</i>		091424
Formulated By:	Justin Dippold	DATE
<i>Pedro L. Rentas</i>		091424
Reviewed By:	Pedro L. Rentas	DATE

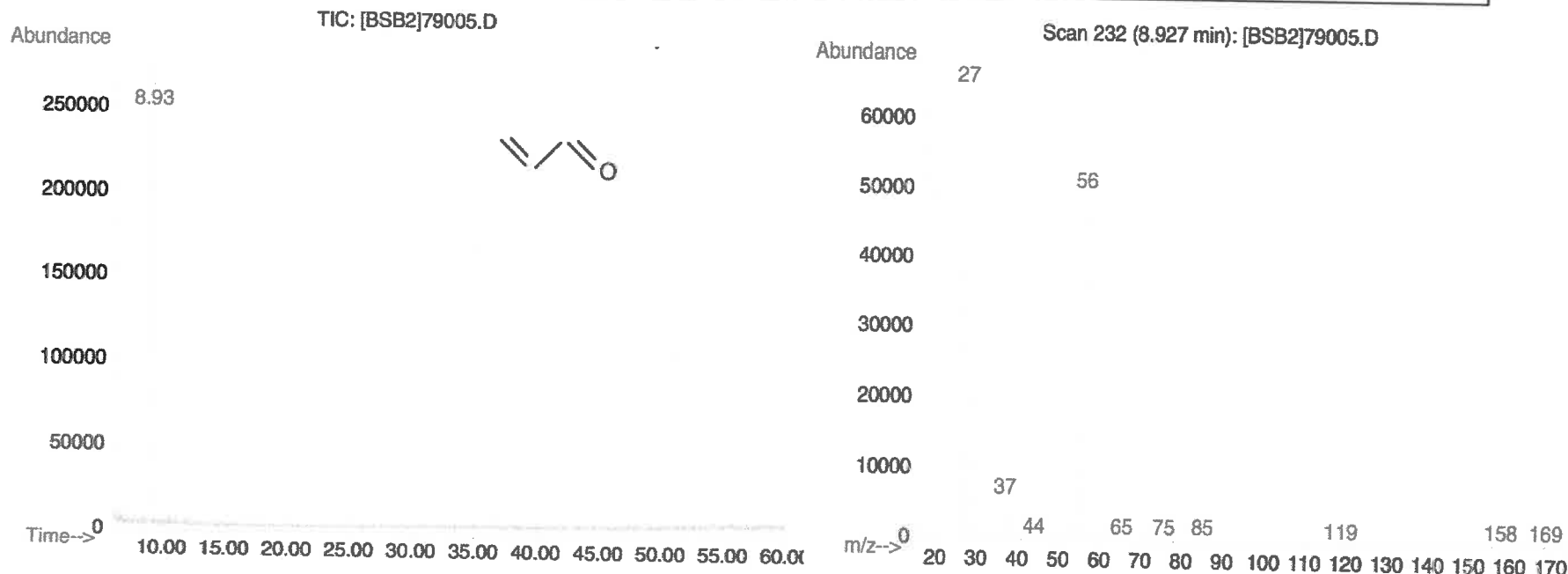
Expiration Date: **101424**Recommended Storage: **Refrigerate (4 °C)**Nominal Concentration (µg/mL): **5000**NIST Test ID#: **6UTB**

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.



- 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: AcroleinSolvent(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

Formulated By:	Justin Dippold
DATE: 091424	
Reviewed By:	Pedro L. Rentas
DATE: 091424	

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: GC/MSD-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.

Abundance TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000

150000

100000

50000

Time--> 0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00



Abundance

27

60000

50000

40000

30000

20000

10000

m/z--> 0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

37

44

65

75

85

119

158 169

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM


 ANAB ISO 17034 Accredited
 AR-1539 Certificate Number
<https://absolutestandards.com>

CERTIFIED WEIGHT REPORT

 Part Number: **95318**
 Lot Number: **120524**
 Description: **2-Chloroethyl vinyl ether**

 Solvent(s):
 Methanol EJ143-US

 Expiration Date: **120527**
 Recommended Storage: **Refrigerate (4 °C)**
 Nominal Concentration (µg/mL): **10000**
 NIST Test ID#: **6UTB**

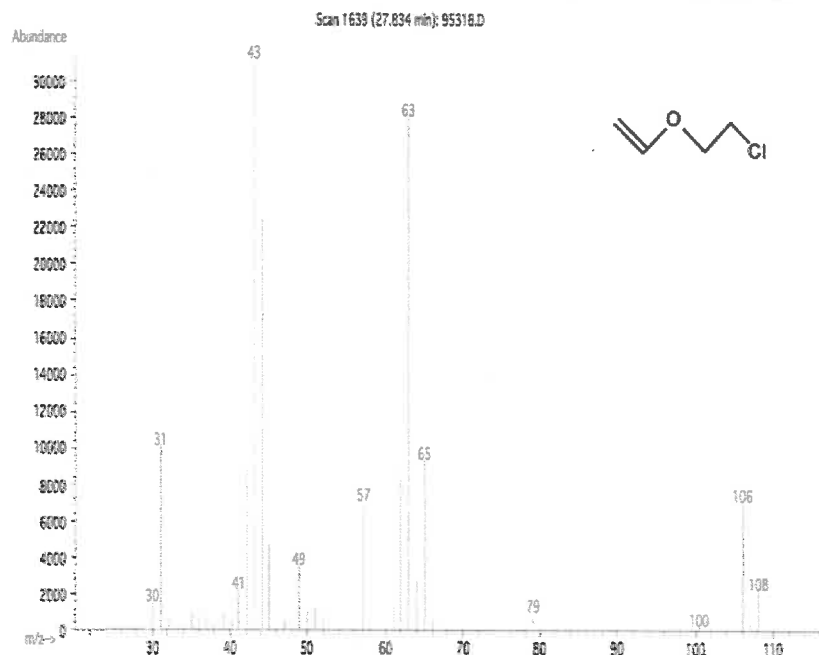
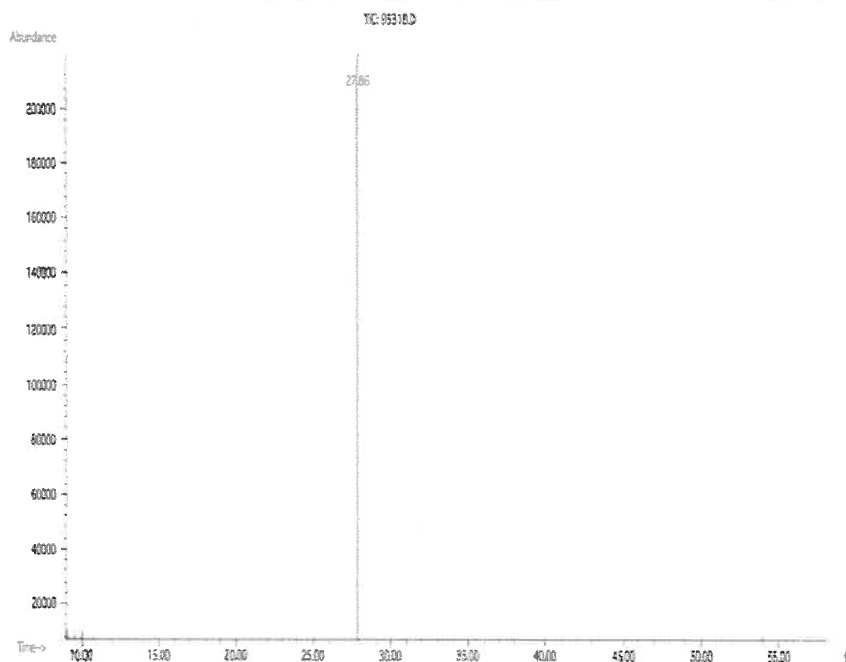
 See 1216124
 20 vial
 V14630 to
 V14649

 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**

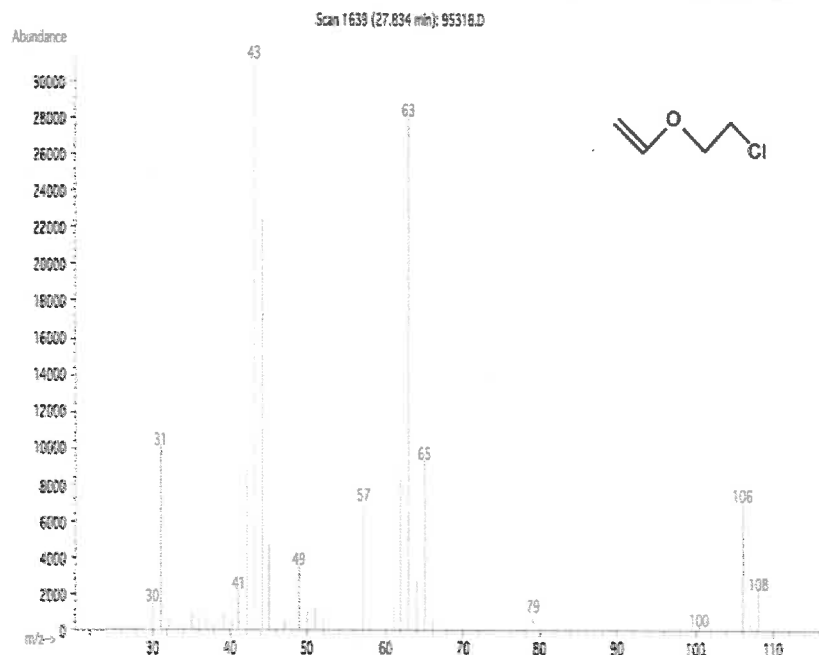
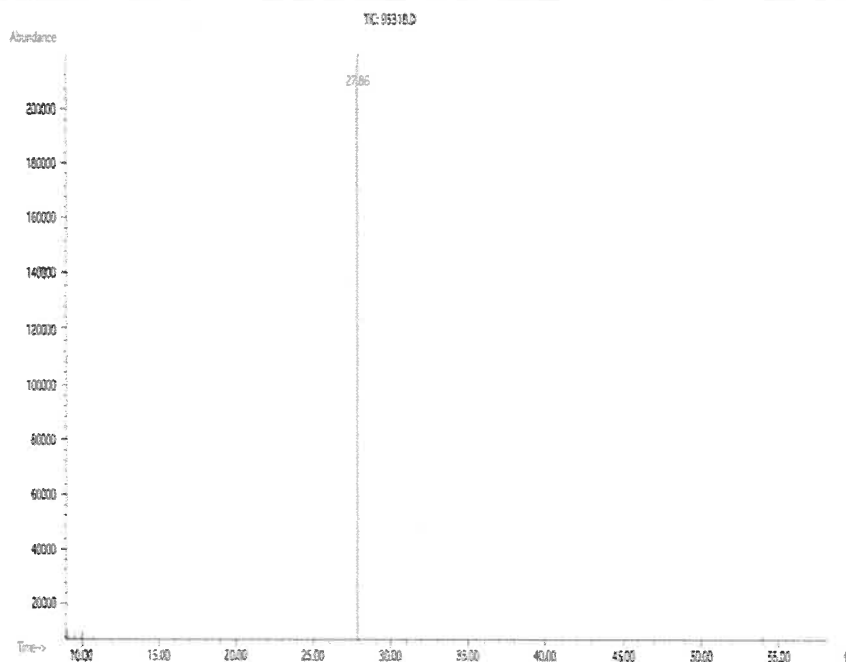
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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	> 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**

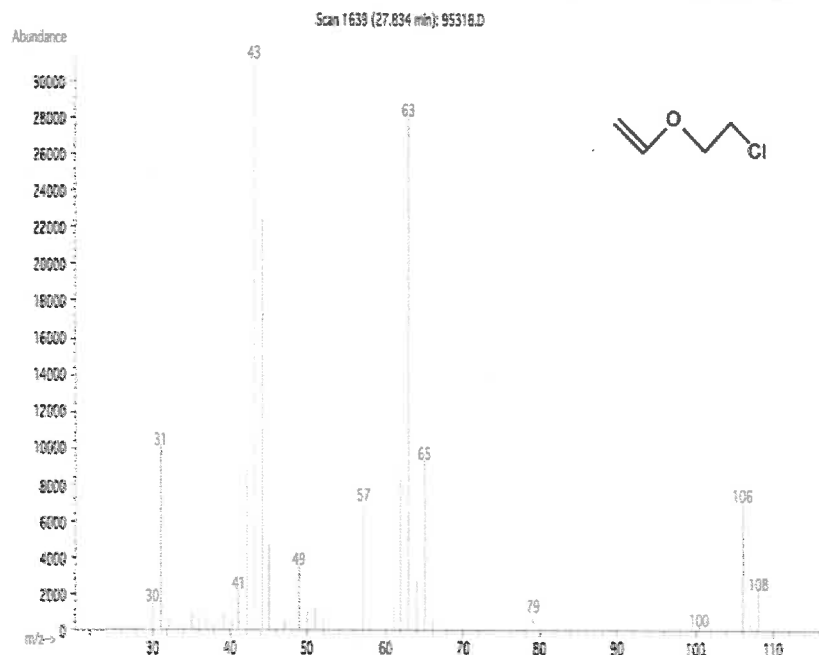
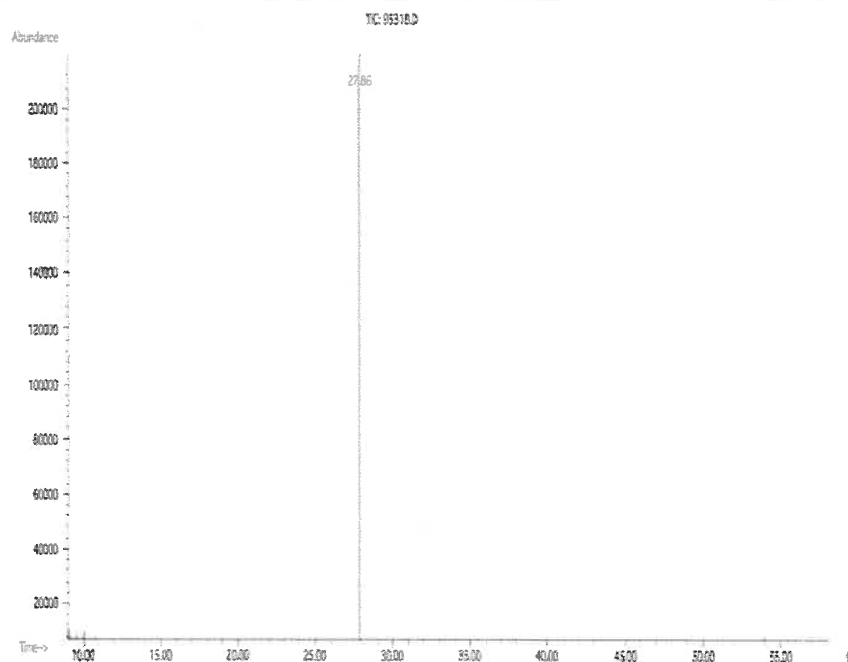
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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	SDS Information		
									Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



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Safety Data Sheet (SDS)

GHS/OSHA Compliant

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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.
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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.

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Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
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Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

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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.

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Methanol	67-56-1	TWA 200 ppm
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Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

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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.		

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Chemical stability	Stable under recommended storage conditions.
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Hazardous decomposition products formed under fire conditions.	- Carbon oxides

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LC50 15,400 mg/l - 96 h
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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



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Lot Number: **120524**
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Solvent(s):
Methanol

Lot#
EJ143-US

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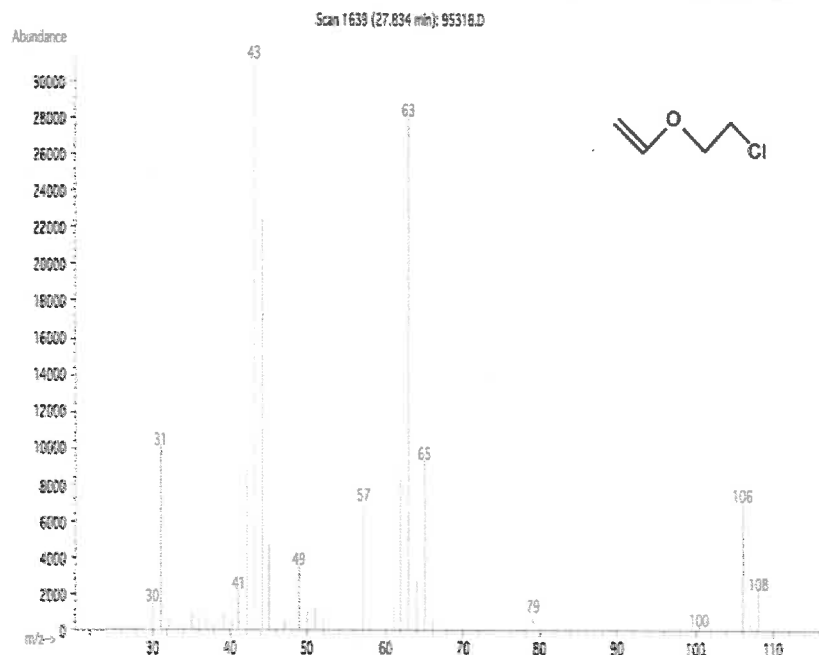
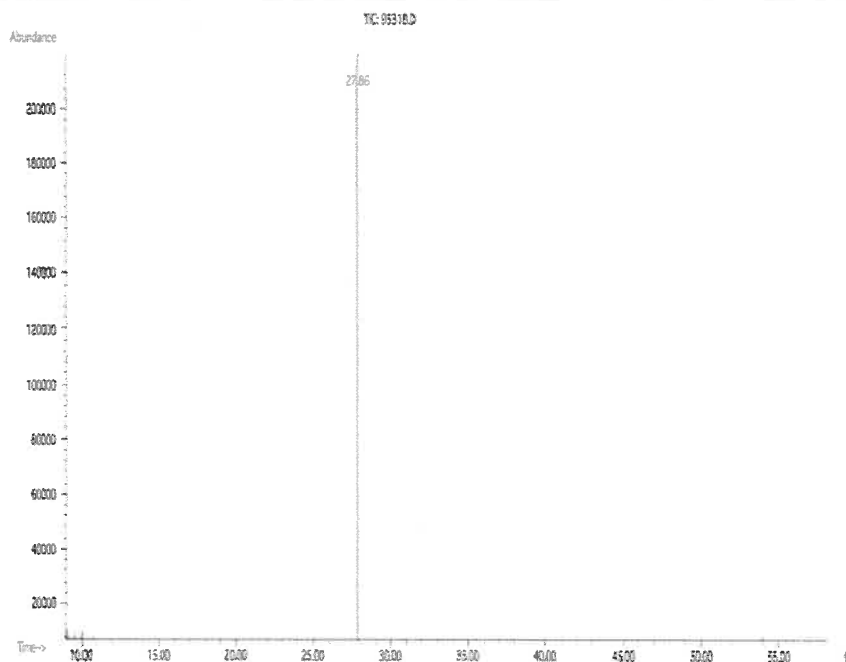
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Prashant Chauhan 120524
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✓ 14630 to
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EC100 10,000.00 mg/l - 24 h

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:

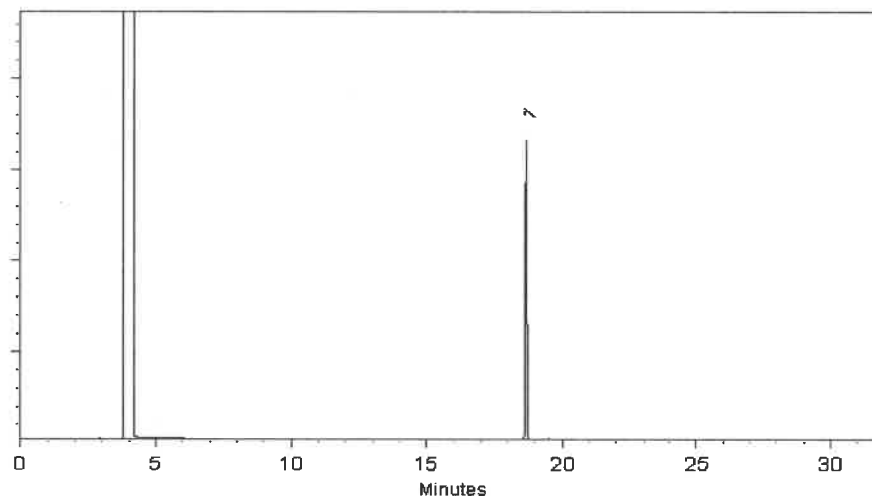
FID

Split Vent:

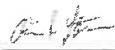
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

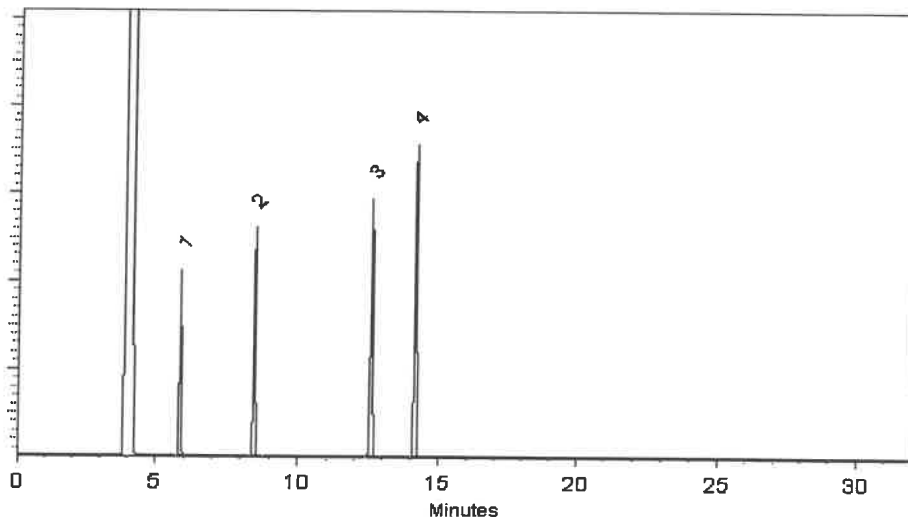
FID

Split Vent:

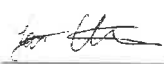
40 ml/min

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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

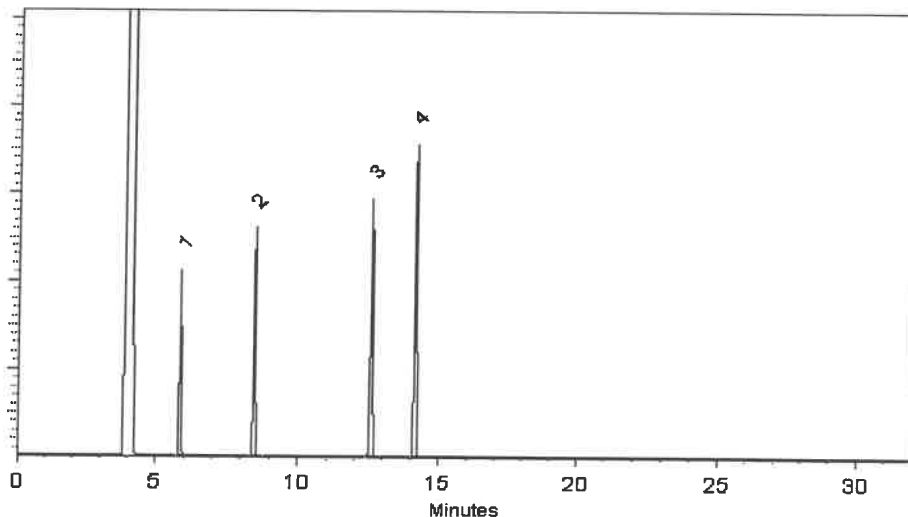
FID

Split Vent:

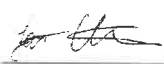
40 ml/min

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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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:

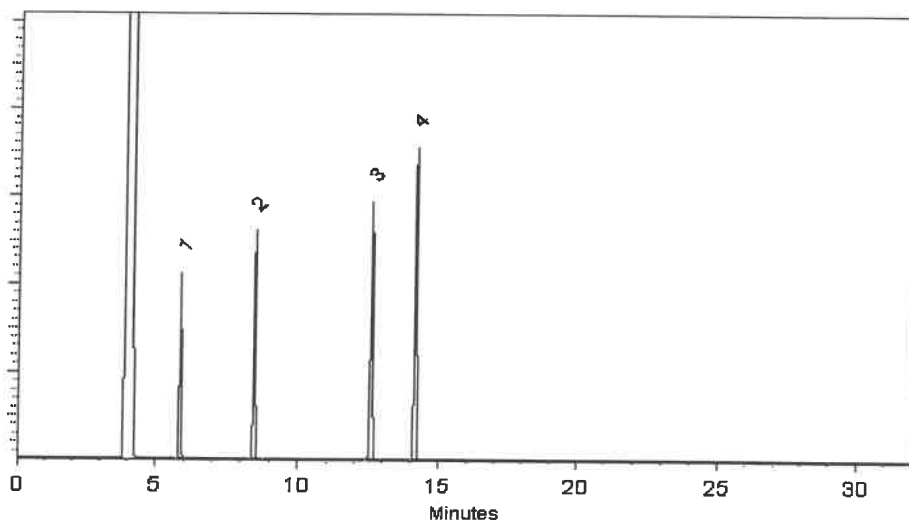
FID

Split Vent:

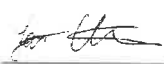
40 ml/min

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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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

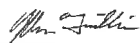
Expiration Date : April 30, 2027 **Storage:** 10°C or colder

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: [Signature] Date: 11-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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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:

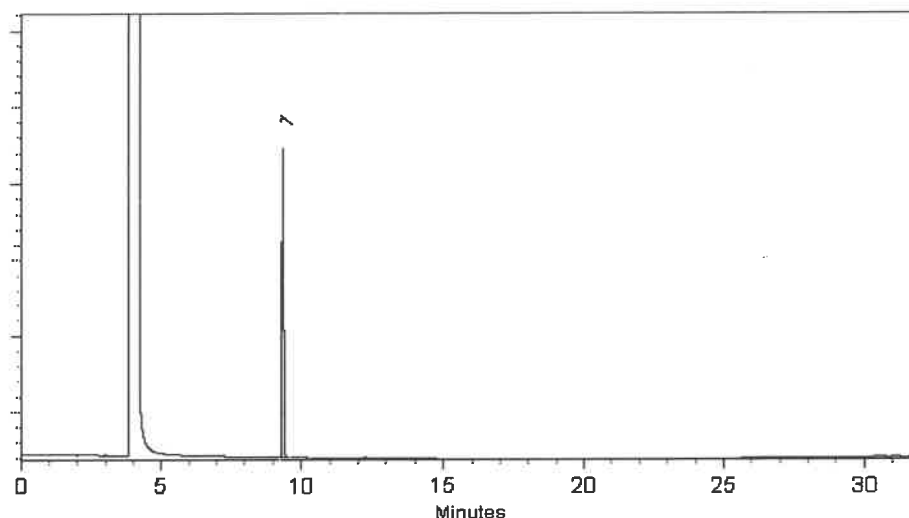
FID

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:

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10 vial.
Dec: 12/09/24
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus
V14667
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:

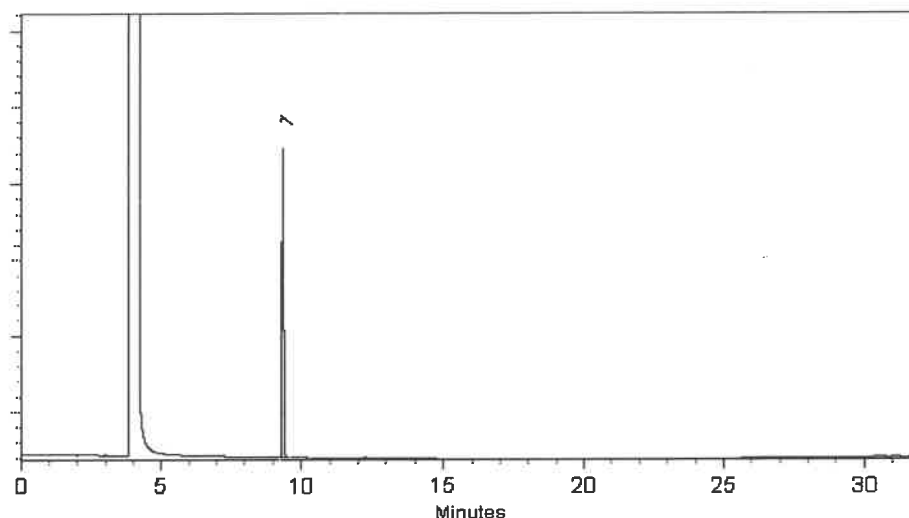
FID

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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10 vial.
Dec: 12/09/24
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus
V14667
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:

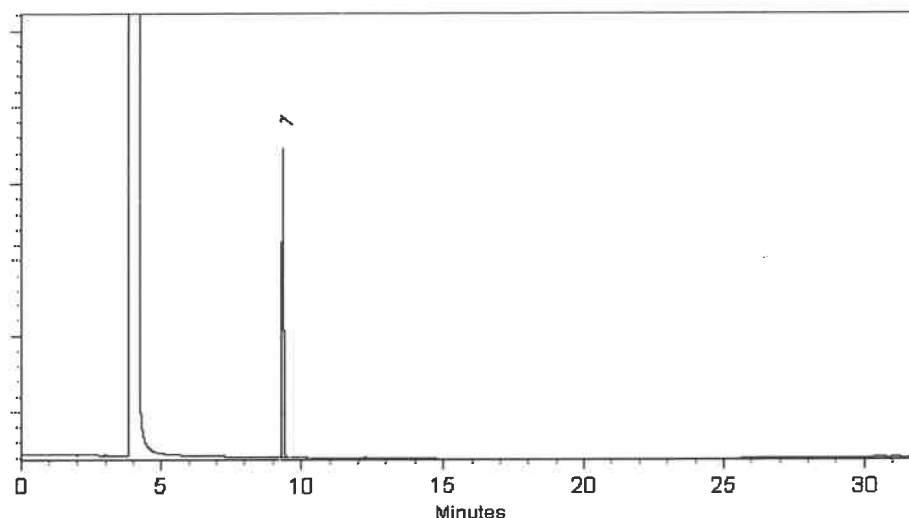
FID

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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10 vial.
Dec: 12/09/24
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus
V14667-5
V14676



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

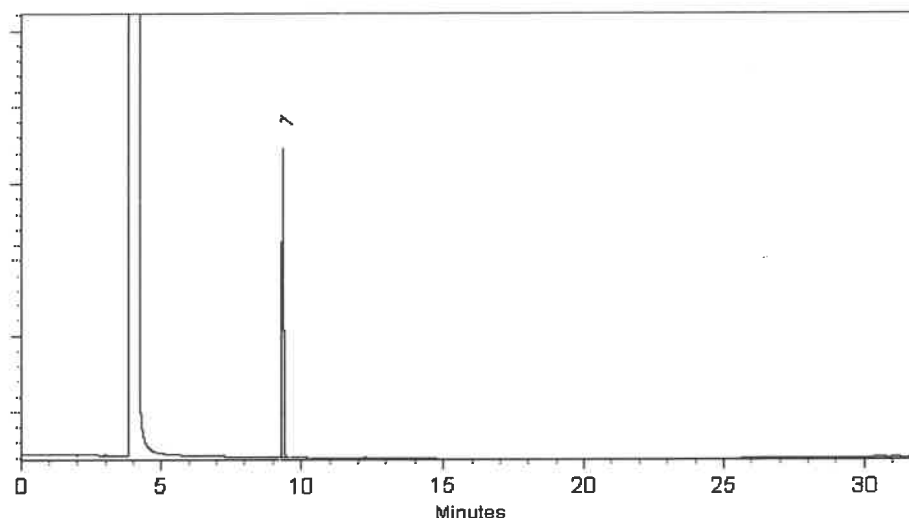
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Rec 12/17/24
30 ml
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus

V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

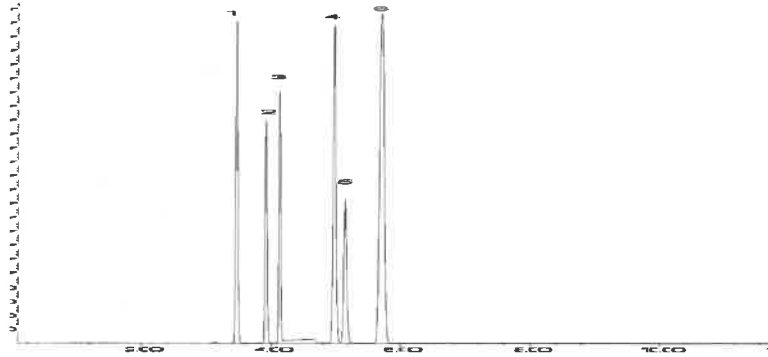
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Rec 12/17/24
30 ml
CERTIFIED REFERENCE MATERIAL

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:

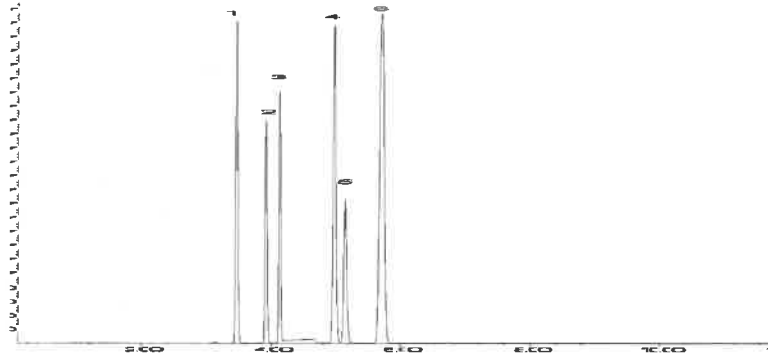
MSD

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:

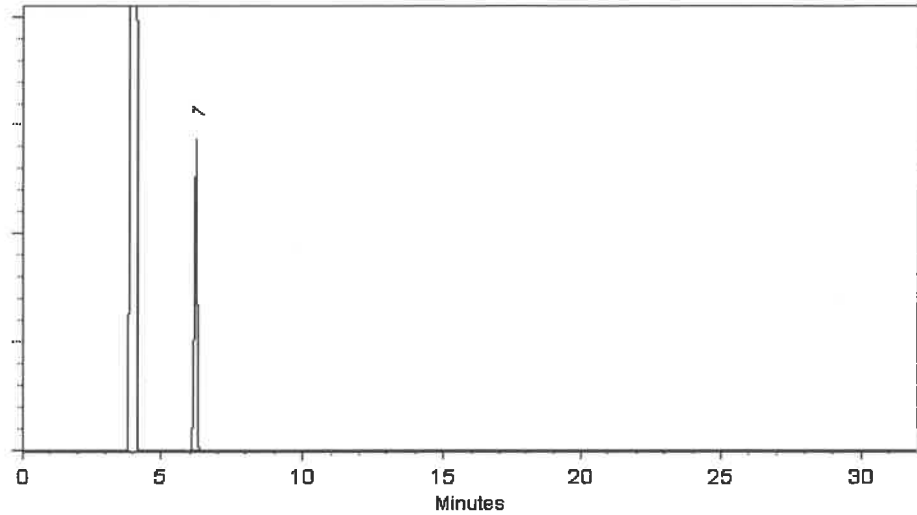
FID

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/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:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

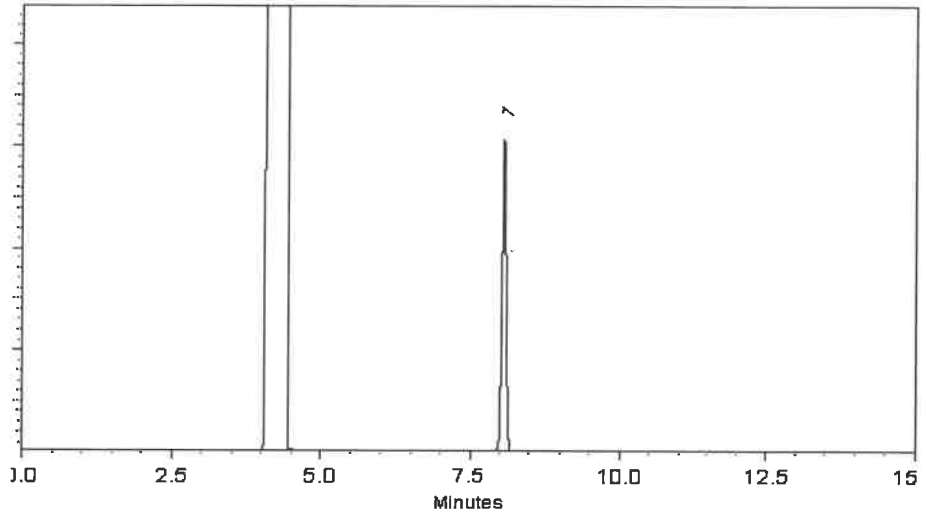
FID

Split Vent:

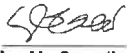
40 ml/min

Inj. Vol

1µl

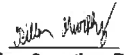


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105


Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

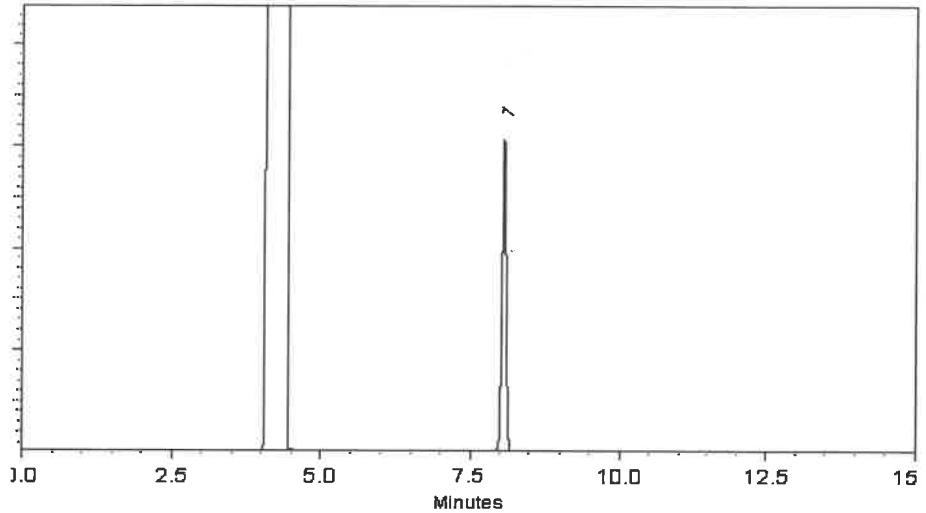
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

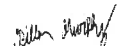


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105


Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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10 vial
Dec 03/31/25
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
gravimetric

V14904 to V14913



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0223904
Description : Custom 8260A/B Surrogate Mix
Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol,
1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 10°C or colder
Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	25,108.0 µg/mL	+/- 1,421.9957
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,108.0 µg/mL	+/- 1,421.9957
3	Dibromofluoromethane	1868-53-7	VENKAT02	99%	25,232.0 µg/mL	+/- 1,429.0184
4	Toluene-d8	2037-26-5	PR-34141	99%	25,156.0 µg/mL	+/- 1,424.7141

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Brittany Federlino - Operations Tech I

Date Mixed: 27-Mar-2025

Balance: B251644995



Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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- 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

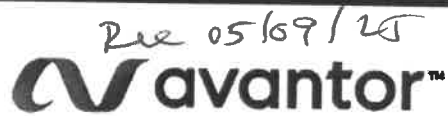
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	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
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rev 05/09/25
Avantor™



V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
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500 Series for Drinking Water
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846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production



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Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
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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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)
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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:

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Certified Reference Material CRM

Rec 10/16/25 5:14p



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 101625
Description: AcroleinSolvent(s):
Water Lot# 041725Q

		101625
Formulated By:	Prashant Chauhan	DATE
		101625
Reviewed By:	Pedro L. Rentas	DATE

Expiration Date: 111625

Recommended Storage: Refrigerate (2°C to 8°C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

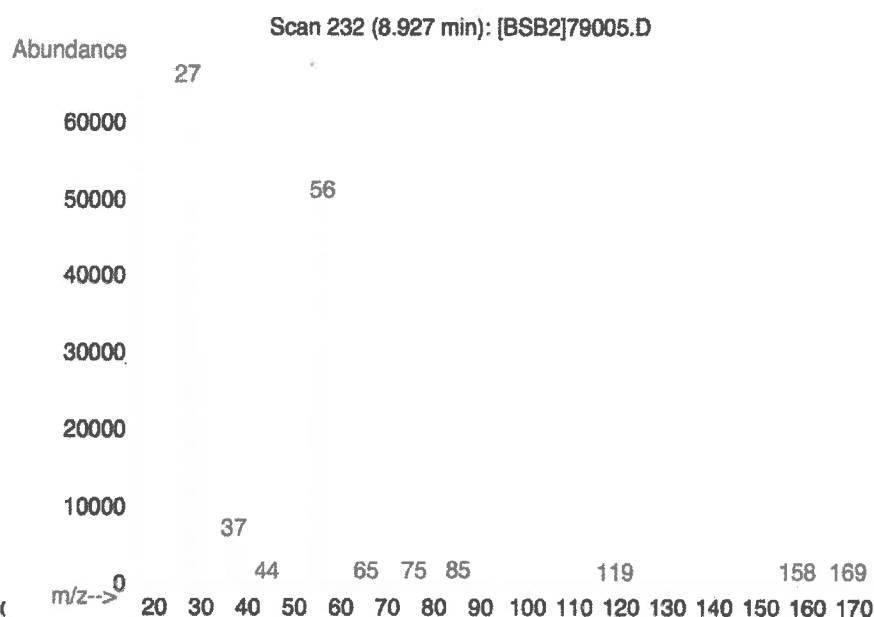
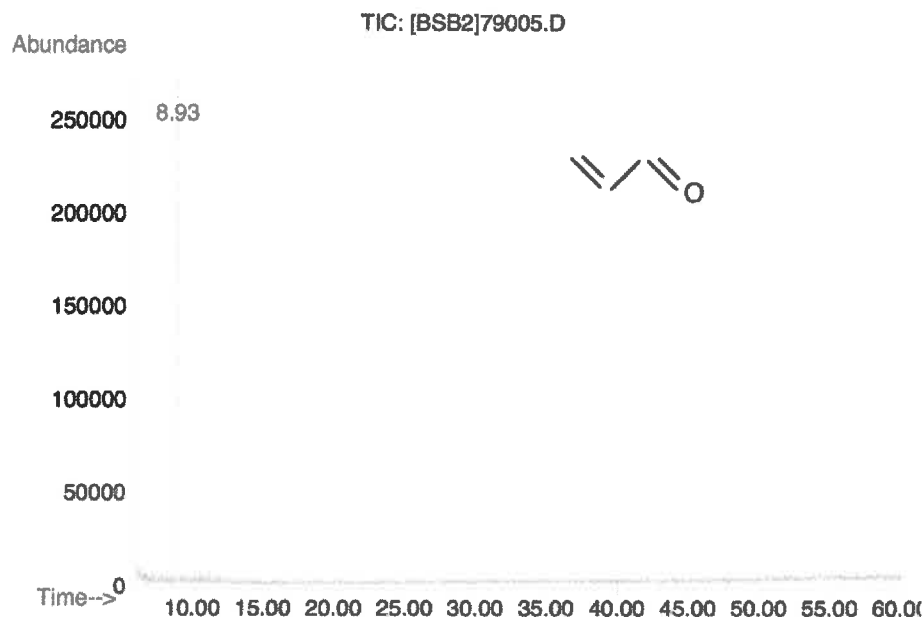
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

V15071-V15075

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	0.05180	5013.7	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 10/16/25 5:14p



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 101625
Description: AcroleinSolvent(s):
Water Lot# 041725QExpiration Date: 111625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

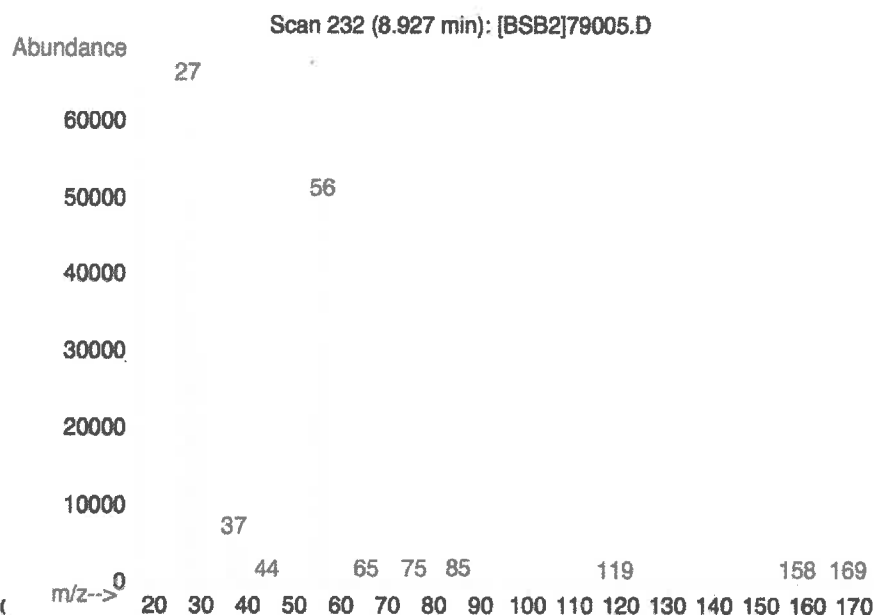
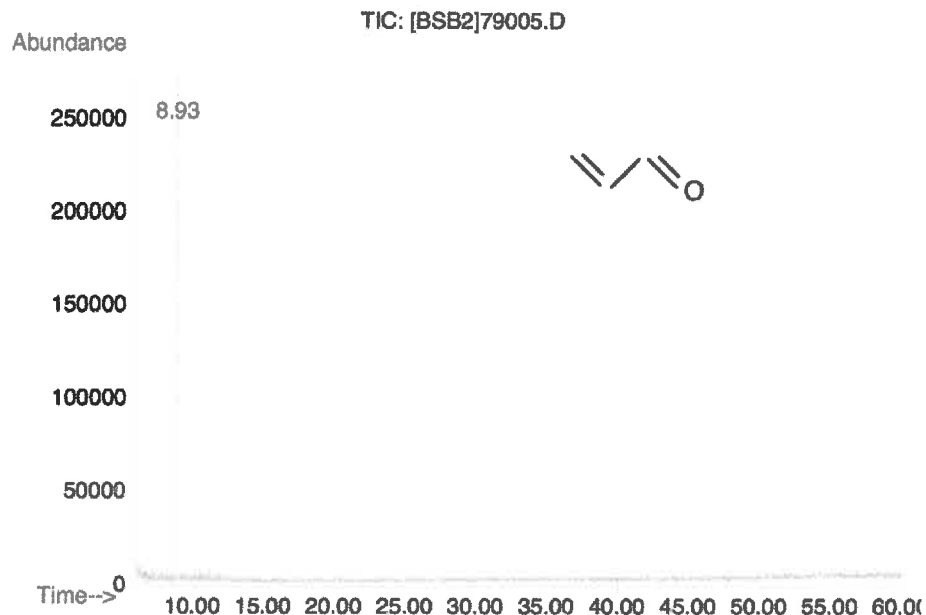
V15071-V15075

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Balance Uncertainty
Flask Uncertainty

		101625
Formulated By:	Prashant Chauhan	DATE
		101625
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05180	5013.7	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 10/16/25 5:14p



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 101625
Description: Acrolein

Solvent(s):
Water Lot# 041725Q

		101625
Formulated By:	Prashant Chauhan	DATE
		101625
Reviewed By:	Pedro L. Rentas	DATE

Expiration Date: 111625

Recommended Storage: Refrigerate (2°C to 8°C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

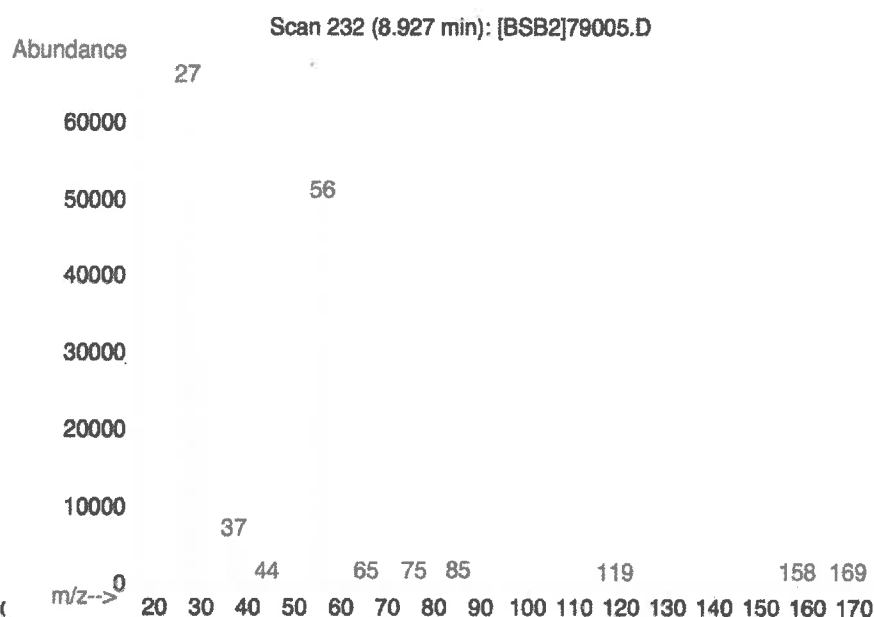
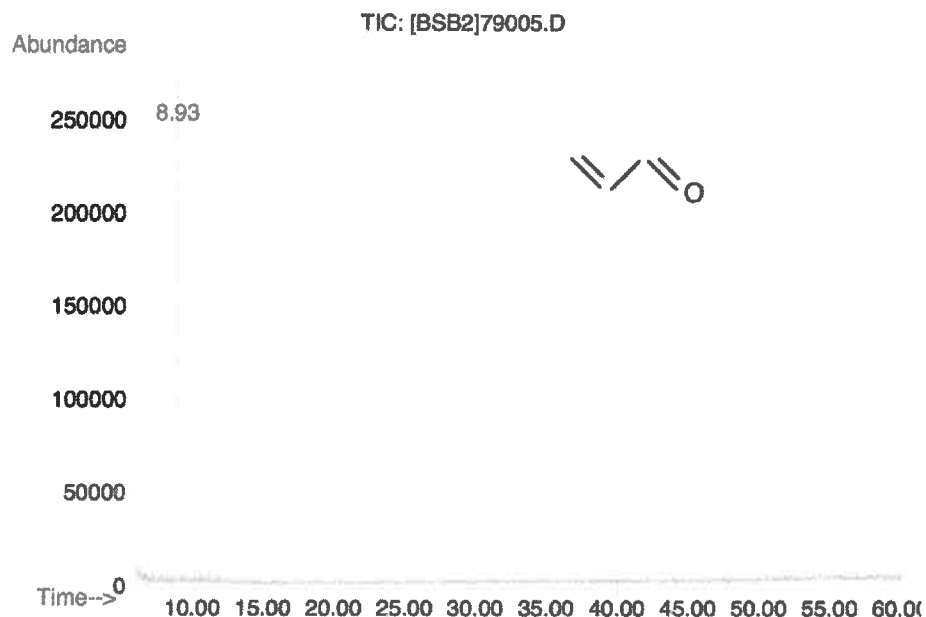
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

V15071-V15075

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	0.05180	5013.7	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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Q3447

USEPA

DateShipped: 10/23/2025

CarrierName: Hand Deliver

AirbillNo: N/A

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-102325-0004-0037-1

RFP #906

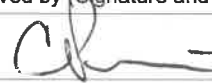
Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-TW1-251023-01	Waste		A	TAL VOCs		10/23/2025	10:00	4	5 gram Encore/4 oz glass	4 C	N
	P001-TW1-251023-01	Waste		B	TAL SVOCs		10/23/2025	10:00	1	8 oz glass	4 C	N
	P001-TW1-251023-01	Waste		C	TAL PCBs		10/23/2025	10:00	1	8 oz glass	4 C	N
	P001-TW1-251023-01	Waste		D	TAL Pesticides		10/23/2025	10:00	1	8 oz glass	4 C	N
	P001-TW1-251023-01	Waste		E	TAL Metals + Hg + CN		10/23/2025	10:00	1	8 oz glass	4 C	N
	P001-TW1-251023-01	Waste		F	TCLP VOC		10/23/2025	10:00	1	8 oz glass	4 C	N
	P001-TW1-251023-01	Waste		G	TCLP SVOC, TCLP Pesticide		10/23/2025	10:00	1	8 oz glass	4 C	N
	P001-TW1-251023-01	Waste		I	TCLP Metals + Hg		10/23/2025	10:00	1	8 oz glass	4 C	N
	P001-TW1-251023-01	Waste		J	TCLP Herbicide		10/23/2025	10:00	1	8 oz glass	4 C	N

Special Instructions: **POSSIBLE HIGH CONCENTRATIONS** Please email results to s.sumbaly@westonsolutions.com and josh.frizzell@westonsolutions.com. Associate with RFP# 906. 10 Days TAT. Sample P001-TW4-251023-01 has limited volume and may require warming to remove from the sample jar. Samples too hard for Encore are in 4 oz. septum jars.

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	Olga Kuznetsova	10/23/25 1330		10/23/25 1330	IF-Gen #1 2.1-c

Q3447

USEPA

DateShipped: 10/23/2025

CarrierName: Hand Deliver

AirbillNo: N/A

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-102325-0004-0037-1

RFP #905

Lab: Alliance Technical Group, LLC - Non
CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-TW2-251023-01	Waste		A	TAL VOCs		10/23/2025	10:30	4	5 gram Encore/4 oz glass	4 C	N
	P001-TW2-251023-01	Waste		B	TAL SVOCs		10/23/2025	10:30	1	8 oz glass	4 C	N
	P001-TW2-251023-01	Waste		C	TAL PCBs		10/23/2025	10:30	1	8 oz glass	4 C	N
	P001-TW2-251023-01	Waste		D	TAL Pesticides		10/23/2025	10:30	1	8 oz glass	4 C	N
	P001-TW2-251023-01	Waste		E	TAL Metals + Hg + CN		10/23/2025	10:30	1	8 oz glass	4 C	N
	P001-TW2-251023-01	Waste		F	TCLP VOC		10/23/2025	10:30	1	8 oz glass	4 C	N
	P001-TW2-251023-01	Waste		G	TCLP SVOC, TCLP Pesticide		10/23/2025	10:30	1	8 oz glass	4 C	N
	P001-TW2-251023-01	Waste		I	TCLP Metals + Hg		10/23/2025	10:30	1	8 oz glass	4 C	N
	P001-TW2-251023-01	Waste		J	TCLP Herbicide		10/23/2025	10:30	1	8 oz glass	4 C	N

Special Instructions: **POSSIBLE HIGH CONCENTRATIONS.** Please email results to s.sumbaly@westonsolutions.com and josh.frizzell@westonsolutions.com. Associate with RFP# 905. 10 Days TAT. Sample P001-TW4-251023-01 has limited volume and may require warming to remove from the sample jar. Samples too hard for Encore are in 4 oz. septum jars.

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	Olga Kuznitskaya	10/23/25 13:30	CF	10/23/25 13:30	If Con #1 2.1

Q3447

USEPA

DateShipped: 10/23/2025

CarrierName: Hand Deliver

AirbillNo: N/A

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-102325-0004-0037-1

RFP #905

Lab: Alliance Technical Group, LLC - Non
CLP

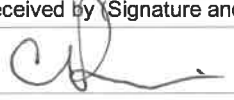
Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-TW3-251023-01	Waste		A	TAL VOCs		10/23/2025	11:00	1	4 oz glass w/septum	4 C	N
	P001-TW3-251023-01	Waste		B	TAL SVOCs		10/23/2025	11:00	1	8 oz glass	4 C	N
	P001-TW3-251023-01	Waste		C	TAL PCBs		10/23/2025	11:00	1	8 oz glass	4 C	N
	P001-TW3-251023-01	Waste		D	TAL Pesticides		10/23/2025	11:00	1	8 oz glass	4 C	N
	P001-TW3-251023-01	Waste		E	TAL Metals + Hg + CN		10/23/2025	11:00	1	8 oz glass	4 C	N
	P001-TW3-251023-01	Waste		F	TCLP VOC		10/23/2025	11:00	1	8 oz glass	4 C	N
	P001-TW3-251023-01	Waste		G	TCLP SVOC, TCLP Pesticide		10/23/2025	11:00	1	8 oz glass	4 C	N
	P001-TW3-251023-01	Waste		I	TCLP Metals + Hg		10/23/2025	11:00	1	8 oz glass	4 C	N
	P001-TW3-251023-01	Waste		J	TCLP Herbicide		10/23/2025	11:00	1	8 oz glass	4 C	N
	P001-TW4-251023-01	Waste		A	TAL VOCs		10/23/2025	11:30	1	4 oz glass w/septum	4 C	N

Special Instructions: **POSSIBLE HIGH CONCENTRATIONS** Please email results to s.sumbaly@westonsolutions.com and josh.frizzell@westonsolutions.com. Associate with RFP# 905. 10 Days TAT. Sample P001-TW4-251023-01 has limited volume and may require warming to remove from the sample jar. Samples too hard for Encore are in 4 oz. septum jars.

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	Oleg Ruzmitskanz	10/23/25 1330		10/23/25 1330	21 Cont 1 2.1 -1

USEPA

DateShipped: 10/23/2025

CarrierName: Hand Deliver

AirbillNo: N/A

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-102325-0004-0037-1

RFP #905

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-TW4-251023-01	Waste		B	TAL SVOCs		10/23/2025	11:30	1	8 oz glass	4 C	N
	P001-TW4-251023-01	Waste		C	TAL PCBs		10/23/2025	11:30	1	8 oz glass	4 C	N
	P001-TW4-251023-01	Waste		D	TAL Pesticides		10/23/2025	11:30	1	8 oz glass	4 C	N
	P001-TW4-251023-01	Waste		E	TAL Metals + Hg + CN		10/23/2025	11:30	1	8 oz glass	4 C	N
	P001-TW4-251023-01	Waste		F	TCLP VOC		10/23/2025	11:30	1	8 oz glass	4 C	N
	P001-TW4-251023-01	Waste		G	TCLP SVOC, TCLP Pesticide		10/23/2025	11:30	1	8 oz glass	4 C	N
	P001-TW4-251023-01	Waste		I	TCLP Metals + Hg		10/23/2025	11:30	1	8 oz glass	4 C	N
	P001-TW4-251023-01	Waste		J	TCLP Herbicide		10/23/2025	11:30	1	8 oz glass	4 C	N
JGF 10-23-2025												

Special Instructions **POSSIBLE HIGH CONCENTRATIONS.** Please email results to s.sumbaly@westonsolutions.com and josh.frizzell@westonsolutions.com. Associate with RFP# 905. 10 Days TAT. Sample P001-TW4-251023-01 has limited volume and may require warming to remove from the sample jar. Samples too hard for Encore are in 4 oz. septum jars.

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 Analyzed	John Kuzmits Kane	10/23/25 1330	CLP	10/23/25 1330	IF Cont # 12.1

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory Personnel

Background

Under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, as amended, Section 311 of the Clean Water Act (CWA), as amended, by the Oil Pollution Act of 1990, Subtitle I of the Resource Conservation and Recovery Act (RCRA), an pursuant to the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) and Presidential Decision Document (PDD) #39, the Environmental Protection Agency (EPA) has been delegated the responsibility to undertake response actions with respect to, as a general matter, the release or threat of release of oil, petroleum products, hazardous substances, or pollutants and contaminants, that pose an actual or potential threat to human health or welfare, or to the environment. EPA is responsible for conducting evaluations and cleanups of uncontrolled hazardous substance disposal sites and placing those that are considered to pose a significant threat to the public health or the environment on the National Priorities List (NPL).

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of a contracted Superfund Technical Assessment & Response Team (START) for EPA. The WESTON START Contract 68HE0319D0004, provides this support to EPA Region II.

Hazardous Communication

The Samples which accompany this notice were shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON START and tentatively designated by the field response team, as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, wells, and off-site soil locations that are not reasonably expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples*. Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a radiation survey meter are considered *Radioactive Samples*.

The samples which accompany this notice were tentatively classified by the field response team as:

☐ Environmental ☒ Hazardous ☐ Comb (Envir. & Haz) ☐ Radioactive

The field team which collected the samples used the following Level(s) of personal protection as designated by EPA and OSHA conventions to provide protection against possible radiological or chemical exposure:

☐ Level A ☐ Level B ☐ Level C ☒ Level D

This information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The Sample classification(s) and Levels of personal protection used by the WESTON START are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgement.

Laboratory Name: Alliance RFP No. 905

Prepared by: Josh Frizzell Date 10-23-2025

WESTON Office: Region II START, Edison, New Jersey, Phone: 732-585-4400

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 : Q3447	ROYF02	Order Date : 10/23/2025 1:50:00 PM	Project Mgr :
Client Name : Weston Solutions, Inc.		Project Name : RFP 905	Report Type : Level 4
Client Contact : Smita Sumbaly		Receive DateTime : 10/23/2025 1:30:00 PM	EDD Type : EXCEL NOCLEANUP
Invoice Name : Weston Solutions, Inc.		Purchase Order :	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
Q3447-01	P001-TW1-251023-01	Solid	10/23/2025	10:00	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q3447-03	P001-TW2-251023-01	Solid	10/23/2025	10:30 ~~10:00~~	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q3447-05	P001-TW3-251023-01	Solid	10/23/2025	11:00 ~~10:00~~	VOC-TCLVOA-10		8260D	10 Bus. Days	
Q3447-07	P001-TW4-251023-01	Solid	10/23/2025	11:30 ~~10:00~~	VOC-TCLVOA-10		8260D	10 Bus. Days	

Relinquished By :

Date / Time : 10/23/25 1437

Received By :

Date / Time :

Storage Area : VOA Refridgerator Room