

DATA PACKAGE VOLATILE ORGANICS

PROJECT NAME : CON EDISON - EAST RIVER SITE 2

PARSONS ENGINEERING OF NEW YORK, INC.

301 Plainfield Road

Suite 350

Syracuse, NY - 13212

Phone No: 315-451-9560

ORDER ID : Q2592

ATTENTION : Zohar Lavy



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q2592

Project ID : Con Edison - East River Site 2

Client : PARSONS Engineering of New York, Inc.

Lab Sample Number

Q2592-01
Q2592-02

Client Sample Number

WC-SOIL-20250711
WC-SOIL-20250711

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

Signature : _____

Date: 7/21/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

PARSONS Engineering of New York, Inc.

Project Name: Con Edison - East River Site 2

Project # N/A

Order ID # Q2592

Test Name: TCLP VOA

A. Number of Samples and Date of Receipt:

1 Solid sample was received on 07/11/2025.

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 {VX0716WBS01} with File ID: VX047022.D met requirements for all compounds except for 2-Butanone[140%] is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank Spike Duplicate for {VX0716WBSD01} with File ID: VX047023.D met requirements for all compounds except for 2-Butanone[150%] 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 VX047016.D met the requirements except for 2-Butanone is failing high but no positive hit in associate sample therefore no corrective action taken.



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Phone: 908 789 8900 Fax: 908 789 8922

The Tuning criteria met requirements.

E. Additional Comments:

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

Trip Blank was not provided with this set of samples.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q2592

MATRIX: TCLP

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements. The Continuous Calibration File ID VX047016.D met the requirements except for 2- Butanone 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 {VX0716WBS01} with File ID: VX047022.D met requirements for all compounds except for 2-Butanone[140%] is failing high but no positive hit in associate sample therefore no corrective action taken. The Blank Spike Duplicate for {VX0716WBSD01} with File ID: VX047023.D met requirements for all compounds except for 2-Butanone[150%] 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.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2592

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: 07/21/2025

LAB CHRONICLE

OrderID:	Q2592	OrderDate:	7/11/2025 3:05:25 PM
Client:	PARSONS Engineering of New York, Inc.	Project:	Con Edison - East River Site 2
Contact:	Zohar Lavy	Location:	D51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2592-01	WC-SOIL-20250711	SOIL	VOCMS Group1	8260D	07/11/25		07/14/25	07/11/25
Q2592-02	WC-SOIL-20250711	TCLP	TCLP VOA	8260D	07/11/25		07/16/25	07/11/25

Hit Summary Sheet
SW-846

SDG No.: Q2592

Client: PARSONS Engineering of New York, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID:

0

Total Voc :

Total Concentration:



QC SUMMARY

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Surrogate Summary

SDG No.: Q2592

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2592-02	WC-SOIL-20250711	1,2-Dichloroethane-d4	50	53.3	107		74	125
		Dibromofluoromethane	50	47.8	96		75	124
		Toluene-d8	50	51.0	102		86	113
		4-Bromofluorobenzene	50	55.8	112		77	121
VX0716WBL01	VX0716WBL01	1,2-Dichloroethane-d4	50	53.6	107		74	125
		Dibromofluoromethane	50	49.5	99		75	124
		Toluene-d8	50	48.1	96		86	113
		4-Bromofluorobenzene	50	52.5	105		77	121
VX0716WBS01	VX0716WBS01	1,2-Dichloroethane-d4	50	52.4	105		74	125
		Dibromofluoromethane	50	48.8	98		75	124
		Toluene-d8	50	48.1	96		86	113
		4-Bromofluorobenzene	50	52.0	104		77	121
VX0716WBSD0	VX0716WBSD01	1,2-Dichloroethane-d4	50	55.4	111		74	125
		Dibromofluoromethane	50	50.2	100		75	124
		Toluene-d8	50	48.0	96		86	113
		4-Bromofluorobenzene	50	52.0	104		77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2592</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>PARSONS Engineering of New York, I</u>	Datafile :	<u>VX047022.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0716WBS01	Vinyl chloride	20	16.6	ug/L	83			65	117	
	1,1-Dichloroethene	20	17.7	ug/L	89			74	110	
	2-Butanone	100	140	ug/L	140		*	65	122	
	Carbon Tetrachloride	20	18.4	ug/L	92			77	113	
	Chloroform	20	20.0	ug/L	100			79	113	
	Benzene	20	18.5	ug/L	93			82	109	
	1,2-Dichloroethane	20	20.1	ug/L	101			80	115	
	Trichloroethene	20	17.6	ug/L	88			77	113	
	Tetrachloroethene	20	17.5	ug/L	88			67	123	
	Chlorobenzene	20	19.0	ug/L	95			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2592</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>PARSONS Engineering of New York, I</u>	Datafile :	<u>VX047023.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0716WBSD01	Vinyl chloride	20	17.0	ug/L	85	2		65	117	19
	1,1-Dichloroethene	20	17.9	ug/L	90	1		74	110	20
	2-Butanone	100	150	ug/L	150	7	*	65	122	26
	Carbon Tetrachloride	20	18.3	ug/L	92	0		77	113	15
	Chloroform	20	20.7	ug/L	104	4		79	113	20
	Benzene	20	18.5	ug/L	93	0		82	109	15
	1,2-Dichloroethane	20	20.8	ug/L	104	3		80	115	20
	Trichloroethene	20	17.5	ug/L	88	0		77	113	15
	Tetrachloroethene	20	17.6	ug/L	88	0		67	123	15
	Chlorobenzene	20	19.3	ug/L	97	2		82	109	15

VOLATILE METHOD BLANK SUMMARY

Client ID

VX0716WBL01

Lab Name: Alliance

Contract: PARS02

Lab Code: ACE

SDG NO.: Q2592

Lab File ID: VX047018.D

Lab Sample ID: VX0716WBL01

Date Analyzed: 07/16/2025

Time Analyzed: 10:34

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
VX0716WBS01	VX0716WBS01	VX047022.D	07/16/2025
VX0716WBSD01	VX0716WBSD01	VX047023.D	07/16/2025
WC-SOIL-20250711	Q2592-02	VX047025.D	07/16/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)
Lab Name: AllianceContract: PARS02Lab Code: ACESDG NO.: Q2592Lab File ID: VX046859.DBFB Injection Date: 07/02/2025Instrument ID: MSVOA_XBFB Injection Time: 11:12GC Column: DB-624UI ID: 0.18 (mm)Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.2
75	30.0 - 60.0% of mass 95	50.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	75.5
175	5.0 - 9.0% of mass 174	5.6 (7.4) 1
176	95.0 - 101.0% of mass 174	73.3 (97.1) 1
177	5.0 - 9.0% of mass 176	4.9 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX046860.D	07/02/2025	12:11
VSTDIC005	VSTDIC005	VX046861.D	07/02/2025	12:37
VSTDIC020	VSTDIC020	VX046862.D	07/02/2025	13:18
VSTDIC050	VSTDIC050	VX046863.D	07/02/2025	13:39
VSTDIC100	VSTDIC100	VX046864.D	07/02/2025	14:10
VSTDIC150	VSTDIC150	VX046865.D	07/02/2025	14:31



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: PARS02

Lab Code: ACE

SDG NO.: Q2592

Lab File ID: VX047015.D

BFB Injection Date: 07/16/2025

Instrument ID: MSVOA_X

BFB Injection Time: 08:58

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 60.0% of mass 95	51.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	72
175	5.0 - 9.0% of mass 174	5.4 (7.6) 1
176	95.0 - 101.0% of mass 174	69.2 (96.1) 1
177	5.0 - 9.0% of mass 176	4.6 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX047016.D	07/16/2025	09:26
VX0716WBL01	VX0716WBL01	VX047018.D	07/16/2025	10:34
VX0716WBS01	VX0716WBS01	VX047022.D	07/16/2025	12:11
VX0716WBSD01	VX0716WBSD01	VX047023.D	07/16/2025	12:38
WC-SOIL-20250711	Q2592-02	VX047025.D	07/16/2025	13:20

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: PARS02
Lab Code: ACE SDG NO.: Q2592
Lab File ID: VX047016.D Date Analyzed: 07/16/2025
Instrument ID: MSVOA_X Time Analyzed: 09:26
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	329194	5.56	557691	6.76	489553	10.06
UPPER LIMIT	658388	6.056	1115380	7.263	979106	10.555
LOWER LIMIT	164597	5.056	278846	6.263	244777	9.555
EPA SAMPLE NO.						
WC-SOIL-20250711	432741	5.56	774714	6.77	742893	10.06
VX0716WBL01	324808	5.56	553162	6.77	506524	10.06
VX0716WBS01	322183	5.57	547259	6.77	491570	10.06
VX0716WBSD01	310963	5.56	532754	6.77	475577	10.06

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: PARS02
 Lab Code: ACE SDG NO.: Q2592
 Lab File ID: VX047016.D Date Analyzed: 07/16/2025
 Instrument ID: MSVOA_X Time Analyzed: 09:26
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	242580	12.018				
UPPER LIMIT	485160	12.518				
LOWER LIMIT	121290	11.518				
EPA SAMPLE NO.						
WC-SOIL-20250711	381197	12.02				
VX0716WBL01	262675	12.02				
VX0716WBS01	246550	12.02				
VX0716WBSD01	244320	12.02				

IS4 = 1,4-Dichlorobenzene-d4

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

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



SAMPLE DATA

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Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	07/11/25	
Project:	Con Edison - East River Site 2		Date Received:	07/11/25	
Client Sample ID:	WC-SOIL-20250711		SDG No.:	Q2592	
Lab Sample ID:	Q2592-02		Matrix:	TCLP	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :	SW5035				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047025.D	1	07/16/25 13:20	VX071625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	5.00	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	5.00	U	0.23	5.00	ug/L
78-93-3	2-Butanone	25.0	UQ	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	5.00	U	0.25	5.00	ug/L
67-66-3	Chloroform	5.00	U	0.25	5.00	ug/L
71-43-2	Benzene	5.00	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	5.00	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	5.00	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	5.00	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	5.00	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.3		74 - 125	107%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	51.0		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.8		77 - 121	112%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	433000	5.562			
540-36-3	1,4-Difluorobenzene	775000	6.769			
3114-55-4	Chlorobenzene-d5	743000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	381000	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
Data File : VX047025.D
Acq On : 16 Jul 2025 13:20
Operator : JC/MD
Sample : Q2592-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WC-SOIL-20250711

Quant Time: Jul 17 03:32:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

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

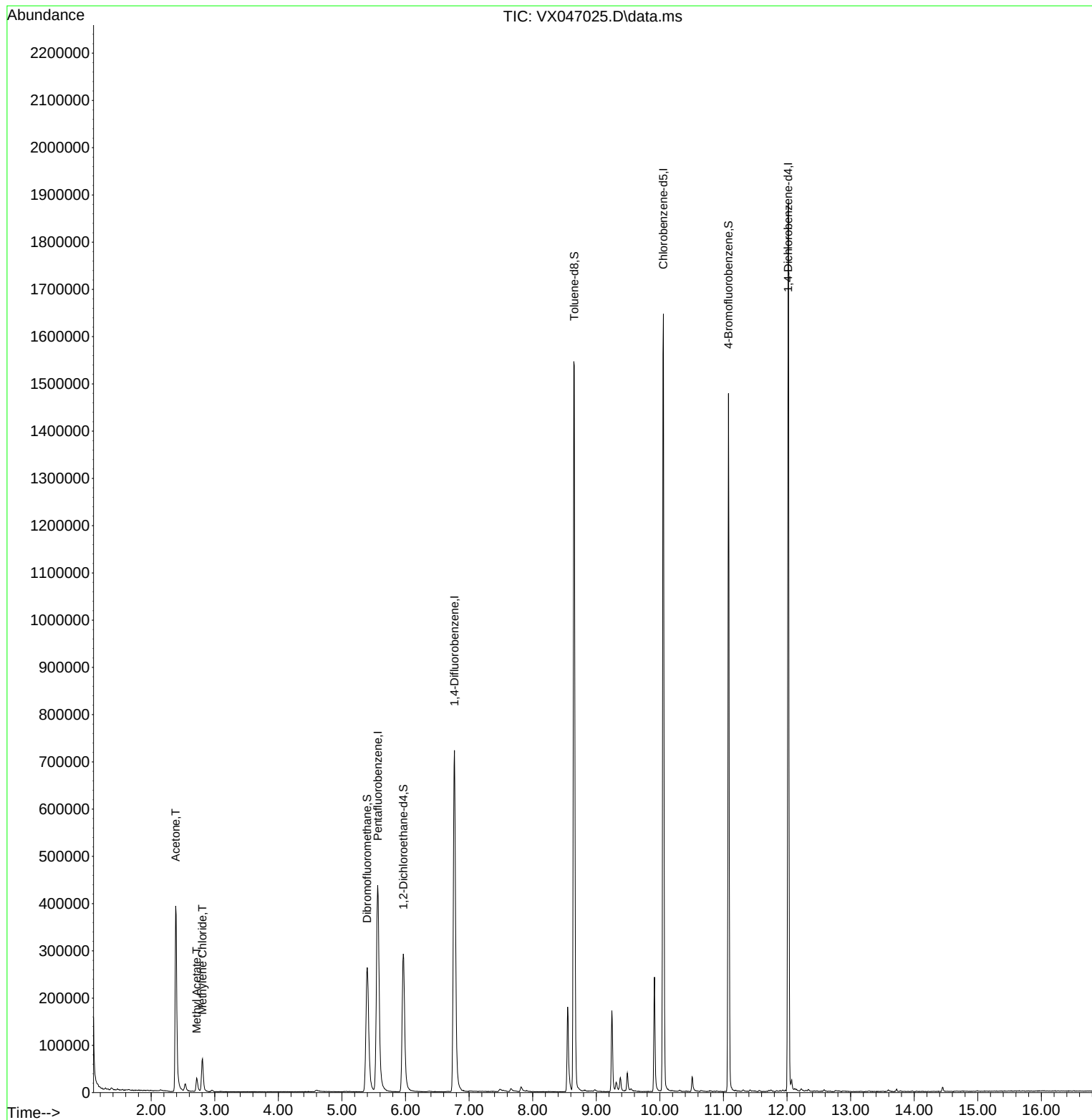
Internal Standards						
1) Pentafluorobenzene	5.562	168	432741	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	774714	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	742893	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	381197	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	304614	53.283	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 106.560%		
35) Dibromofluoromethane	5.397	113	251600	47.844	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 95.680%		
50) Toluene-d8	8.653	98	946034	50.988	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 101.980%		
62) 4-Bromofluorobenzene	11.079	95	393534	55.808	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 111.620%		
Target Compounds						Qvalue
16) Acetone	2.386	43	479708	270.136	ug/l	95
18) Methyl Acetate	2.715	43	41238	8.810	ug/l	95
20) Methylene Chloride	2.806	84	34541	6.578	ug/l	93

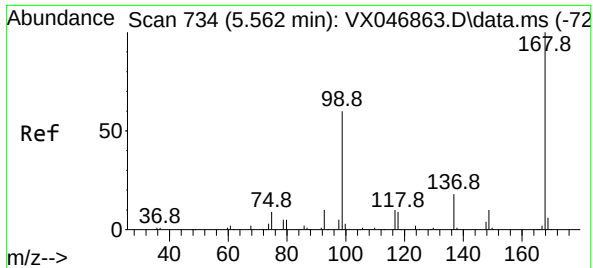
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
Data File : VX047025.D
Acq On : 16 Jul 2025 13:20
Operator : JC/MD
Sample : Q2592-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WC-SOIL-20250711

Quant Time: Jul 17 03:32:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

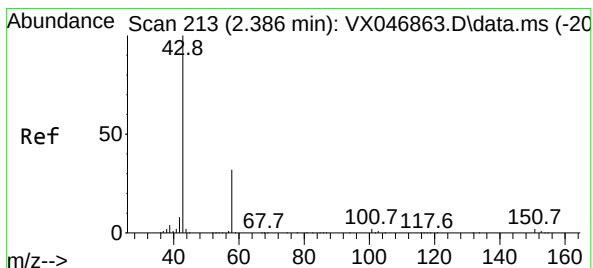
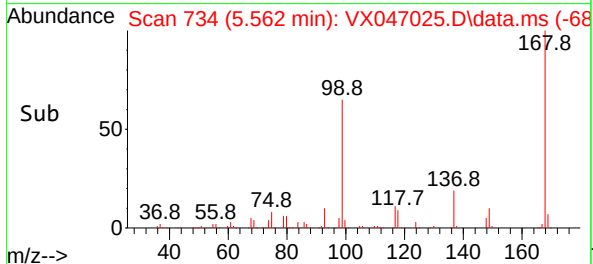
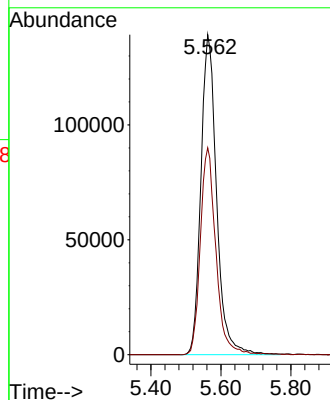
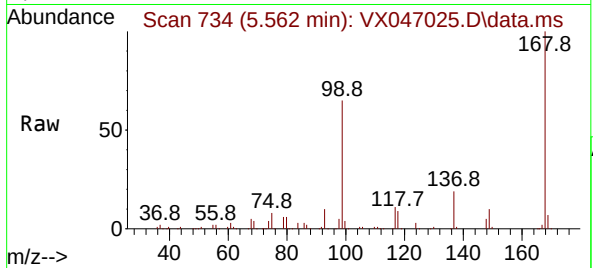




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047025.D
Acq: 16 Jul 2025 13:20

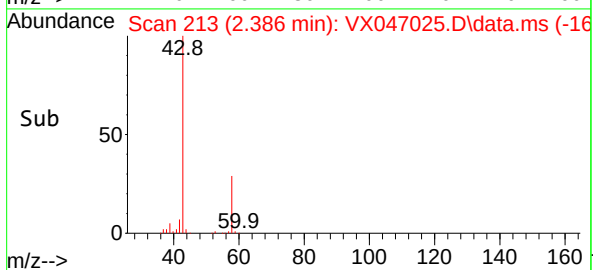
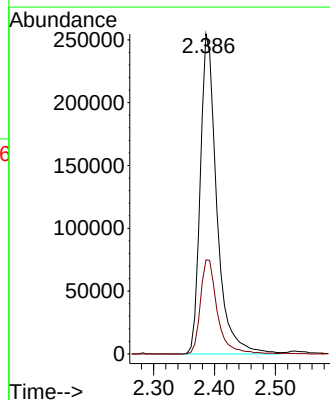
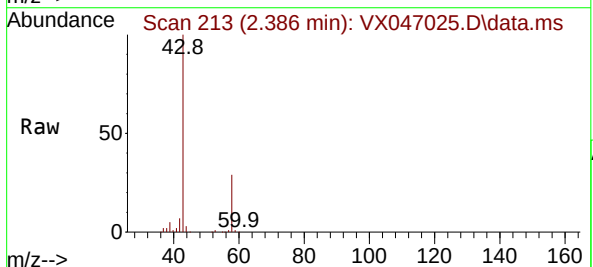
Instrument :
MSVOA_X
ClientSampleId :
WC-SOIL-20250711

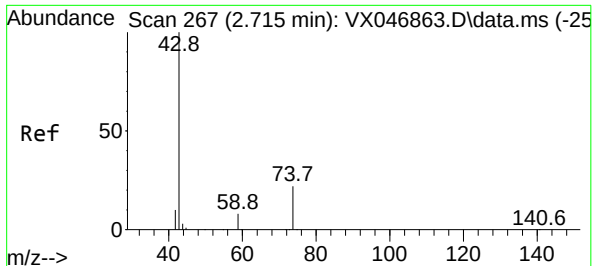
Tgt Ion:168 Resp: 432741
Ion Ratio Lower Upper
168 100
99 64.7 48.8 73.2



#16
Acetone
Concen: 270.136 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX047025.D
Acq: 16 Jul 2025 13:20

Tgt Ion: 43 Resp: 479708
Ion Ratio Lower Upper
43 100
58 29.4 25.8 38.6





#18

Methyl Acetate

Concen: 8.810 ug/l

RT: 2.715 min Scan# 2

Delta R.T. 0.000 min

Lab File: VX047025.D

Acq: 16 Jul 2025 13:20

Instrument :

MSVOA_X

ClientSampleId :

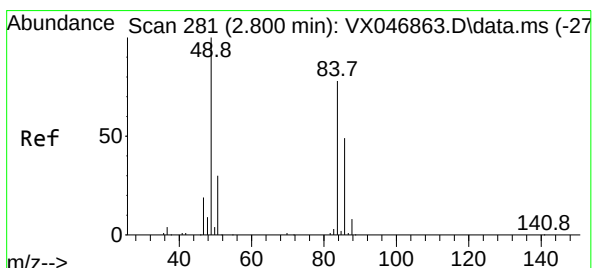
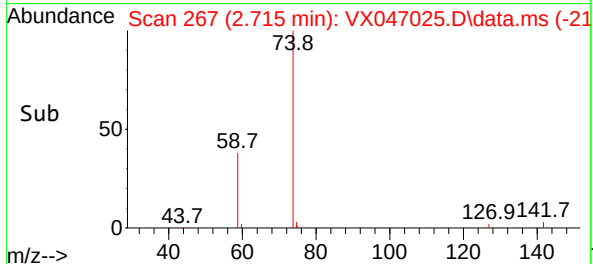
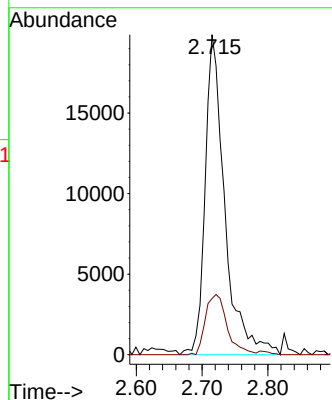
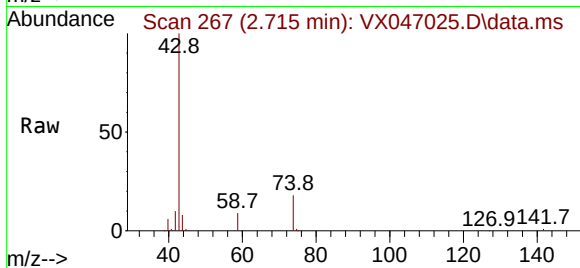
WC-SOIL-20250711

Tgt Ion: 43 Resp: 41238

Ion Ratio Lower Upper

43 100

74 20.7 18.3 27.5



#20

Methylene Chloride

Concen: 6.578 ug/l

RT: 2.806 min Scan# 282

Delta R.T. 0.006 min

Lab File: VX047025.D

Acq: 16 Jul 2025 13:20

Tgt Ion: 84 Resp: 34541

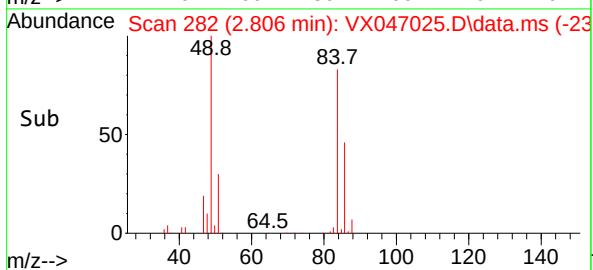
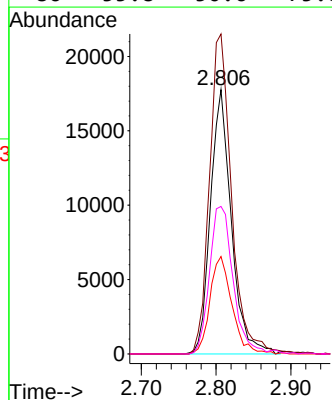
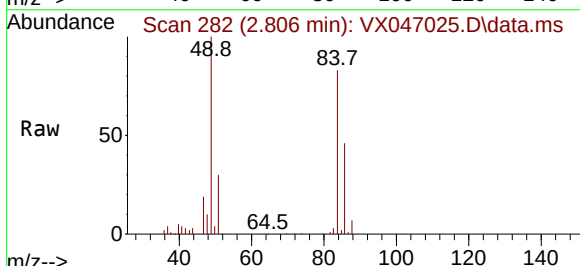
Ion Ratio Lower Upper

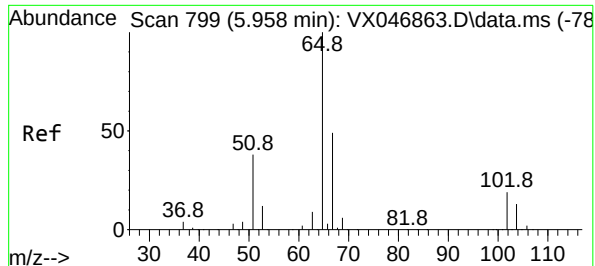
84 100

49 121.1 102.8 154.2

51 36.9 31.1 46.7

86 55.8 50.6 75.8





#33

1,2-Dichloroethane-d4

Concen: 53.283 ug/l

RT: 5.964 min Scan# 80

Delta R.T. 0.006 min

Lab File: VX047025.D

Acq: 16 Jul 2025 13:20

Instrument :

MSVOA_X

ClientSampleId :

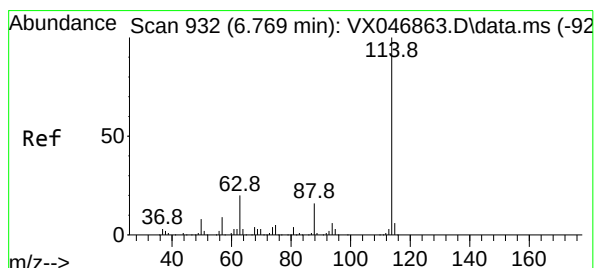
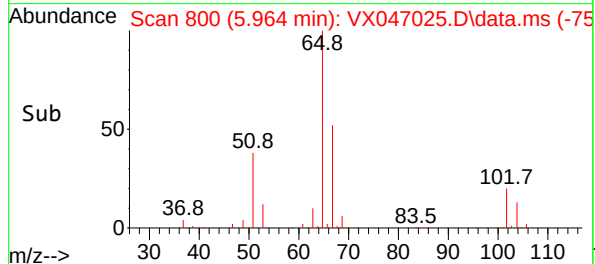
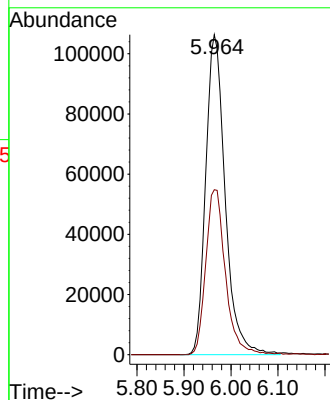
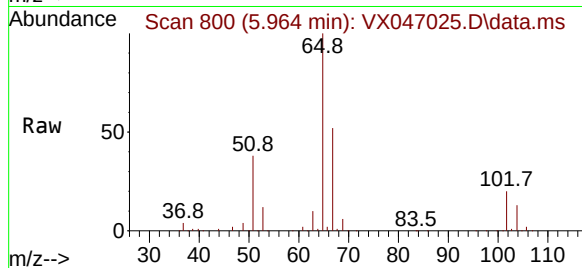
WC-SOIL-20250711

Tgt Ion: 65 Resp: 304614

Ion Ratio Lower Upper

65 100

67 52.3 0.0 105.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047025.D

Acq: 16 Jul 2025 13:20

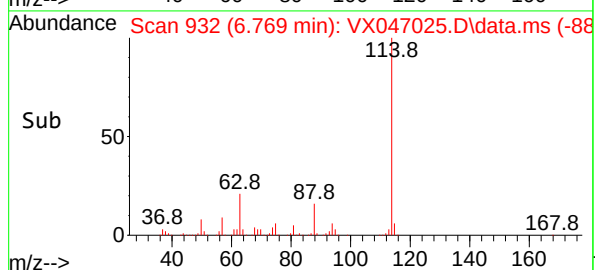
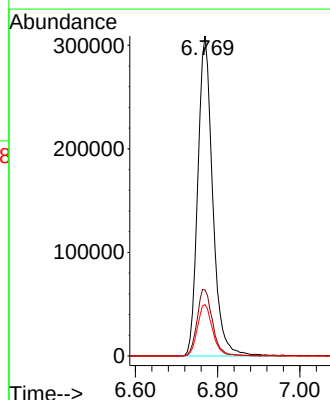
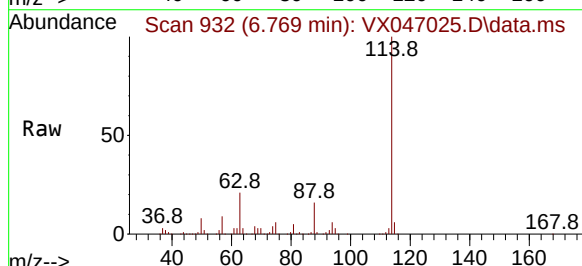
Tgt Ion: 114 Resp: 774714

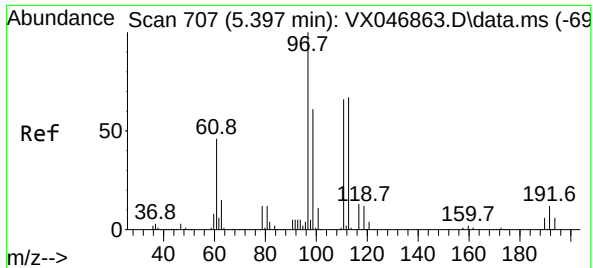
Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.4

88 16.1 0.0 31.0





#35

Dibromofluoromethane

Concen: 47.844 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047025.D

Acq: 16 Jul 2025 13:20

Instrument :

MSVOA_X

ClientSampleId :

WC-SOIL-20250711

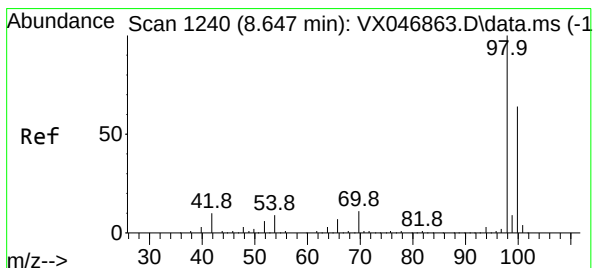
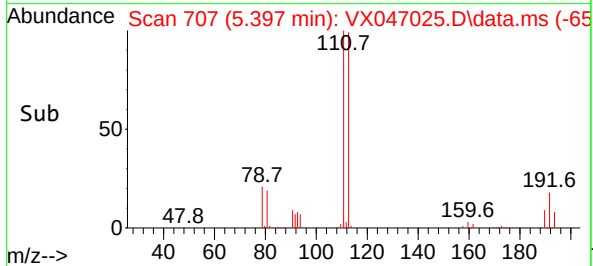
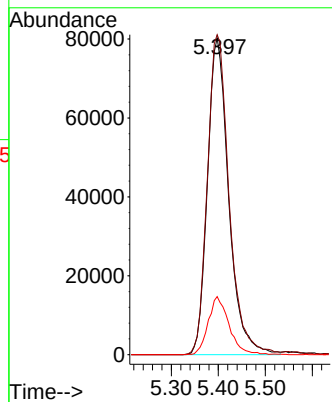
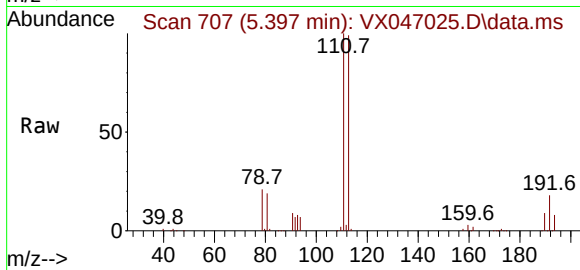
Tgt Ion:113 Resp: 251600

Ion Ratio Lower Upper

113 100

111 103.5 81.2 121.8

192 18.1 15.3 22.9



#50

Toluene-d8

Concen: 50.988 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.006 min

Lab File: VX047025.D

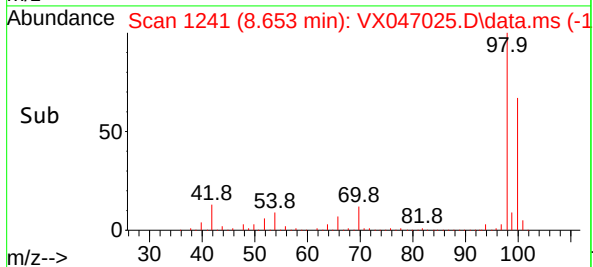
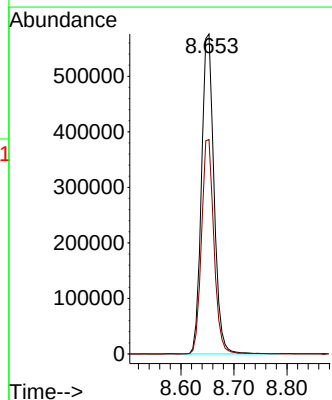
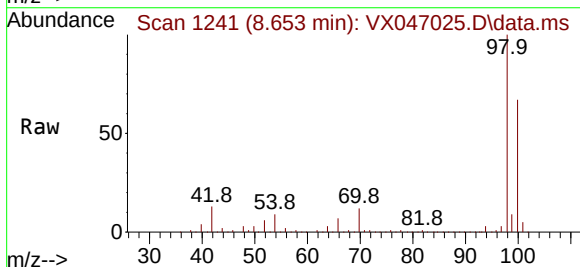
Acq: 16 Jul 2025 13:20

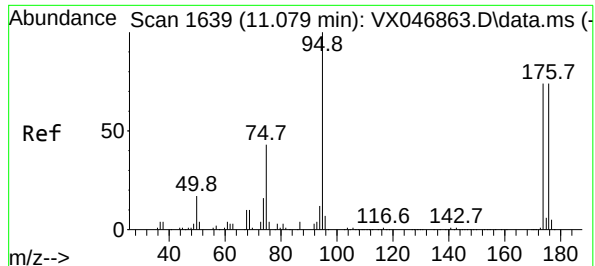
Tgt Ion: 98 Resp: 946034

Ion Ratio Lower Upper

98 100

100 66.7 53.0 79.6

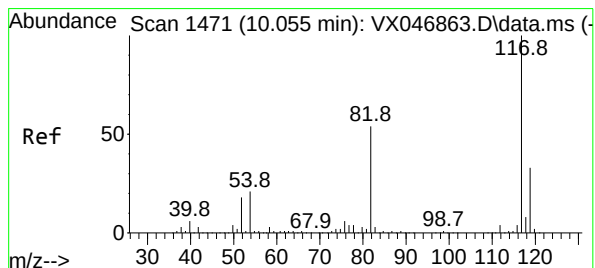
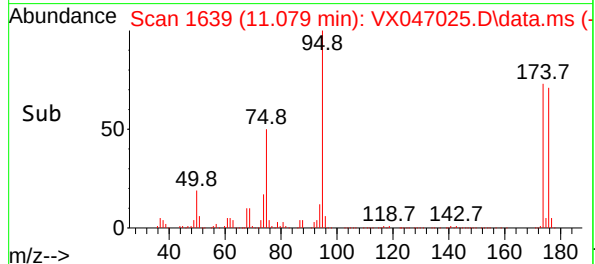
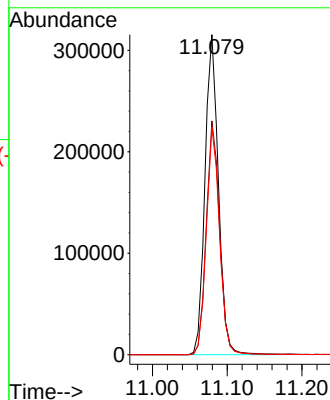
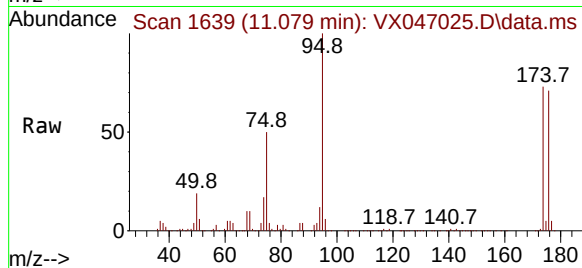




#62
4-Bromofluorobenzene
Concen: 55.808 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047025.D
Acq: 16 Jul 2025 13:20

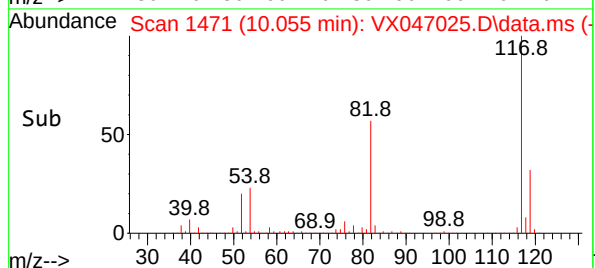
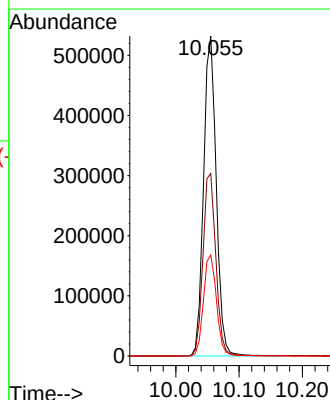
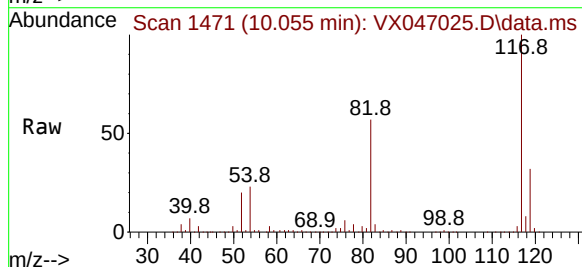
Instrument :
MSVOA_X
ClientSampleId :
WC-SOIL-20250711

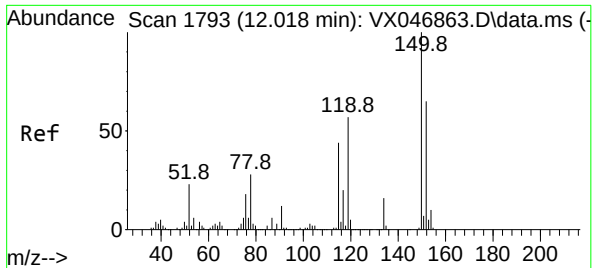
Tgt Ion: 95 Resp: 393534
Ion Ratio Lower Upper
95 100
174 72.9 0.0 152.0
176 70.0 0.0 145.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047025.D
Acq: 16 Jul 2025 13:20

Tgt Ion: 117 Resp: 742893
Ion Ratio Lower Upper
117 100
82 57.0 43.3 64.9
119 31.5 26.4 39.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047025.D

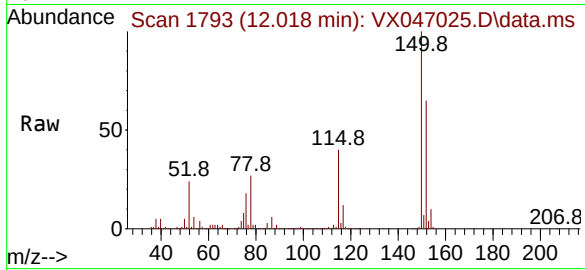
Acq: 16 Jul 2025 13:20

Instrument :

MSVOA_X

ClientSampleId :

WC-SOIL-20250711



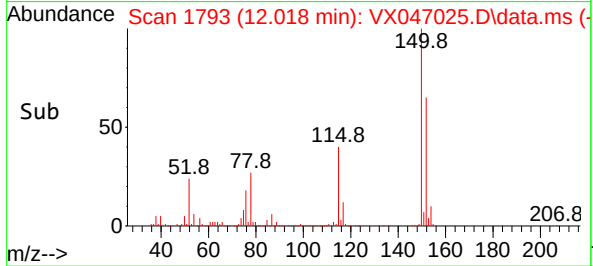
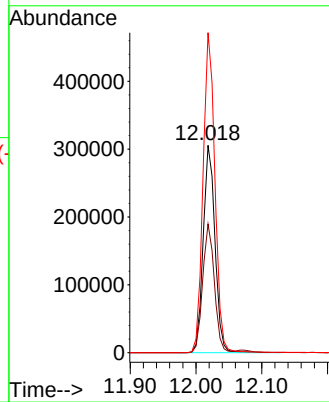
Tgt Ion:152 Resp: 381197

Ion Ratio Lower Upper

152 100

115 61.5 42.4 127.1

150 155.7 0.0 349.2





CALIBRATION SUMMARY

- 1
- 2
- 3
- 4
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- 15
- 16
- 17



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: PARS02
 Lab Code: ACE SDG No.: Q2592
 Instrument ID: MSVOA_X Calibration Date(s): 07/02/2025 07/02/2025
 Heated Purge: (Y/N) N Calibration Time(s): 12:11 14:31
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX046860.D		RRF005 = VX046861.D		RRF020 = VX046862.D			
		RRF050 = VX046863.D		RRF100 = VX046864.D		RRF150 = VX046865.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Vinyl Chloride	0.568	0.549	0.591	0.550	0.589	0.566	0.569	3.2	
1,1-Dichloroethene	0.543	0.555	0.546	0.524	0.546	0.540	0.542	1.9	
2-Butanone	0.260	0.270	0.275	0.275	0.276	0.286	0.274	3.1	
Carbon Tetrachloride	0.471	0.505	0.495	0.476	0.480	0.478	0.484	2.7	
Chloroform	1.150	1.106	1.112	1.048	1.052	1.050	1.087	3.9	
Benzene	1.391	1.445	1.452	1.356	1.342	1.324	1.385	3.9	
1,2-Dichloroethane	0.499	0.477	0.487	0.460	0.453	0.446	0.470	4.4	
Trichloroethene	0.386	0.377	0.365	0.344	0.347	0.344	0.361	5	
Tetrachloroethene	0.353	0.346	0.345	0.315	0.320	0.318	0.333	5.1	
Chlorobenzene	1.111	1.117	1.113	1.049	1.051	1.045	1.081	3.3	
1,2-Dichloroethane-d4		0.722	0.652	0.647	0.641	0.640	0.661	5.3	
Dibromofluoromethane		0.355	0.346	0.339	0.332	0.325	0.339	3.5	
Toluene-d8		1.278	1.220	1.195	1.160	1.135	1.197	4.6	
4-Bromofluorobenzene		0.493	0.469	0.455	0.433	0.426	0.455	6	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X070225W.M
 Title : SW846 8260
 Last Update : Thu Jul 03 05:51:11 2025
 Response Via : Initial Calibration

Calibration Files

1 =VX046860.D 5 =VX046861.D 20 =VX046862.D 50 =VX046863.D 100 =VX046864.D 150 =VX046865.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.445	0.433	0.512	0.487	0.503	0.490	0.478	6.67
3) P	Chloromethane	0.505	0.507	0.541	0.508	0.543	0.530	0.522	3.38
4) C	Vinyl Chloride	0.568	0.549	0.591	0.550	0.589	0.566	0.569	3.19#
5) T	Bromomethane	0.402	0.402	0.360	0.369	0.295	0.366		12.04
6) T	Chloroethane	0.443	0.365	0.383	0.347	0.362	0.354	0.376	9.38
7) T	Trichlorofluor...	0.847	0.874	0.921	0.857	0.893	0.885	0.880	3.02
8) T	Diethyl Ether	0.315	0.308	0.316	0.304	0.317	0.317	0.313	1.78
9) T	1,1,2-Trichlor...	0.527	0.571	0.583	0.548	0.572	0.562	0.561	3.58
10) T	Methyl Iodide	0.465	0.581	0.631	0.681	0.696	0.611		15.27
11) T	Tert butyl alc...	0.044	0.042	0.042	0.043	0.045	0.043		3.54
12) CM	1,1-Dichloroet...	0.543	0.555	0.546	0.524	0.546	0.540	0.542	1.85#
13) T	Acrolein	0.074	0.043	0.046	0.048	0.049	0.052		24.05
14) T	Allyl chloride	0.975	0.939	0.963	0.943	0.988	0.983	0.965	2.12
15) T	Acrylonitrile	0.266	0.238	0.249	0.246	0.250	0.254	0.250	3.81
16) T	Acetone	0.236	0.210	0.195	0.193	0.197	0.200	0.205	7.90
17) T	Carbon Disulfide	1.585	1.425	1.405	1.342	1.398	1.376	1.422	5.98
18) T	Methyl Acetate	0.488	0.474	0.560	0.553	0.570	0.599	0.541	9.08
19) T	Methyl tert-bu...	1.447	1.470	1.540	1.528	1.587	1.615	1.531	4.25
20) T	Methylene Chlo...	0.623	0.625	0.624	0.585	0.596	0.588	0.607	3.14
21) T	trans-1,2-Dich...	0.552	0.564	0.575	0.541	0.551	0.545	0.555	2.31
22) T	Diisopropyl ether	1.666	1.831	1.967	1.905	1.927	1.893	1.865	5.75
23) T	Vinyl Acetate	1.255	1.341	1.423	1.423	1.465	1.475	1.397	6.02
24) P	1,1-Dichloroet...	1.080	1.084	1.074	1.039	1.055	1.050	1.064	1.71
25) T	2-Butanone	0.260	0.270	0.275	0.275	0.276	0.286	0.274	3.07
26) T	2,2-Dichloropr...	0.832	0.746	0.782	0.761	0.802	0.826	0.792	4.38
27) T	cis-1,2-Dichlo...	0.711	0.669	0.688	0.660	0.670	0.666	0.677	2.78
28) T	Bromochloromet...	0.529	0.543	0.524	0.528	0.516	0.508	0.525	2.29
29) T	Tetrahydrofuran	0.175	0.162	0.174	0.175	0.178	0.183	0.175	4.02
30) C	Chloroform	1.150	1.106	1.112	1.048	1.052	1.050	1.087	3.93#
31) T	Cyclohexane	0.973	0.977	0.918	0.926	0.926	0.927	0.944	3.00
32) T	1,1,1-Trichlor...	0.944	0.897	0.908	0.886	0.901	0.910	0.908	2.17
33) S	1,2-Dichloroet...	0.722	0.652	0.647	0.641	0.640	0.661		5.29
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...	0.355	0.346	0.339	0.332	0.325	0.339		3.47
36) T	1,1-Dichloropr...	0.499	0.477	0.461	0.439	0.434	0.437	0.458	5.71
37) T	Ethyl Acetate	0.506	0.376	0.371	0.360	0.355	0.373	0.390	14.73
38) T	Carbon Tetrach...	0.471	0.505	0.495	0.476	0.480	0.478	0.484	2.73
39) T	Methylcyclohexane	0.539	0.588	0.589	0.567	0.578	0.576	0.573	3.20
40) TM	Benzene	1.391	1.445	1.452	1.356	1.342	1.324	1.385	3.88
41) T	Methacrylonitrile	0.175	0.196	0.222	0.213	0.221	0.222	0.208	9.12
42) TM	1,2-Dichloroet...	0.499	0.477	0.487	0.460	0.453	0.446	0.470	4.39
43) T	Isopropyl Acetate	0.508	0.562	0.613	0.618	0.630	0.652	0.597	8.82
44) TM	Trichloroethene	0.386	0.377	0.365	0.344	0.347	0.344	0.361	5.02
45) C	1,2-Dichloropr...	0.364	0.340	0.362	0.346	0.345	0.342	0.350	3.03#
46) T	Dibromomethane	0.247	0.246	0.250	0.240	0.236	0.237	0.242	2.35
47) T	Bromodichlorom...	0.538	0.508	0.535	0.510	0.508	0.507	0.518	2.87
48) T	Methyl methacr...	0.257	0.294	0.307	0.322	0.329	0.343	0.308	9.89
49) T	1,4-Dioxane	0.003	0.004	0.004	0.004	0.004	0.004	0.004	2.38
50) S	Toluene-d8	1.278	1.220	1.195	1.160	1.135	1.197		4.60
51) T	4-Methyl-2-Pen...	0.330	0.340	0.368	0.366	0.353	0.357	0.353	4.26
52) CM	Toluene	0.855	0.894	0.906	0.841	0.831	0.823	0.858	3.95#
53) T	t-1,3-Dichloro...	0.408	0.431	0.467	0.472	0.490	0.504	0.462	7.81
54) T	cis-1,3-Dichlo...	0.496	0.499	0.532	0.533	0.549	0.554	0.527	4.71
55) T	1,1,2-Trichlor...	0.325	0.329	0.328	0.318	0.310	0.308	0.320	2.82
56) T	Ethyl methacry...	0.390	0.409	0.447	0.459	0.468	0.482	0.442	8.13

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X070225W.M

57)	T	1,3-Dichloropr...	0.567	0.567	0.572	0.541	0.528	0.527	0.550	3.76
58)	T	2-Chloroethyl ...	0.217	0.235	0.258	0.267	0.260	0.259	0.249	7.69
59)	T	2-Hexanone	0.205	0.227	0.245	0.247	0.238	0.242	0.234	6.83
60)	T	Dibromochlorom...	0.383	0.390	0.393	0.377	0.376	0.377	0.383	1.94
61)	T	1,2-Dibromoethane	0.323	0.317	0.332	0.320	0.317	0.317	0.321	1.82
62)	S	4-Bromofluorob...		0.493	0.469	0.455	0.433	0.426	0.455	5.97
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.353	0.346	0.345	0.315	0.320	0.318	0.333	5.13
65)	PM	Chlorobenzene	1.111	1.117	1.113	1.049	1.051	1.045	1.081	3.32
66)	T	1,1,1,2-Tetrac...	0.366	0.347	0.377	0.359	0.366	0.367	0.363	2.75
67)	C	Ethyl Benzene	1.810	1.868	1.929	1.830	1.846	1.824	1.851	2.32#
68)	T	m/p-Xylenes	0.702	0.710	0.731	0.688	0.683	0.672	0.698	3.05
69)	T	o-Xylene	0.676	0.677	0.703	0.665	0.663	0.660	0.674	2.36
70)	T	Styrene	1.070	1.152	1.228	1.175	1.157	1.134	1.153	4.50
71)	P	Bromoform	0.269	0.261	0.273	0.269	0.275	0.275	0.270	1.94
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.267	3.428	3.611	3.601	3.592	3.590	3.515	3.97
74)	T	N-amyl acetate	0.953	1.079	1.194	1.270	1.303	1.367	1.194	12.93
75)	P	1,1,2,2-Tetrac...	1.000	0.948	0.981	0.963	0.939	0.968	0.966	2.26
76)	T	1,2,3-Trichlor...	0.781	0.720	0.770	0.787	0.791	0.787	0.773	3.46
77)	T	Bromobenzene	0.868	0.890	0.876	0.876	0.870	0.872	0.875	0.89
78)	T	n-propylbenzene	4.048	4.223	4.362	4.293	4.271	4.233	4.238	2.50
79)	T	2-Chlorotoluene	2.441	2.523	2.596	2.482	2.498	2.474	2.503	2.13
80)	T	1,3,5-Trimethy...	2.574	2.780	3.014	2.924	2.947	2.896	2.856	5.54
81)	T	trans-1,4-Dich...		0.236	0.267	0.292	0.312	0.333	0.288	13.09
82)	T	4-Chlorotoluene	2.755	2.916	2.982	2.915	2.899	2.859	2.888	2.64
83)	T	tert-Butylbenzene	2.733	2.876	3.036	3.020	3.031	3.002	2.950	4.13
84)	T	1,2,4-Trimethy...	2.615	2.872	3.017	2.949	2.930	2.937	2.887	4.88
85)	T	sec-Butylbenzene	3.475	3.721	3.852	3.782	3.766	3.719	3.719	3.47
86)	T	p-Isopropyltol...	2.948	3.159	3.181	3.162	3.160	3.077	3.114	2.87
87)	T	1,3-Dichlorobe...	1.615	1.664	1.673	1.627	1.625	1.619	1.637	1.50
88)	T	1,4-Dichlorobe...	1.852	1.776	1.711	1.632	1.622	1.632	1.704	5.52
89)	T	n-Butylbenzene	2.747	2.891	3.036	2.987	2.983	2.914	2.926	3.51
90)	T	Hexachloroethane	0.530	0.523	0.537	0.554	0.581	0.589	0.552	4.95
91)	T	1,2-Dichlorobe...	1.626	1.592	1.625	1.568	1.560	1.550	1.587	2.07
92)	T	1,2-Dibromo-3-...	0.158	0.151	0.164	0.171	0.178	0.192	0.169	8.69
93)	T	1,2,4-Trichlor...	1.016	1.020	1.078	1.087	1.121	1.145	1.078	4.86
94)	T	Hexachlorobuta...	0.393	0.397	0.421	0.409	0.408	0.411	0.407	2.52
95)	T	Naphthalene	2.210	2.537	2.893	3.034	3.096	3.273	2.840	13.92
96)	T	1,2,3-Trichlor...	0.900	0.965	1.033	1.045	1.069	1.099	1.019	7.20

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046860.D
 Acq On : 02 Jul 2025 12:11
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:29:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	372069	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	622566	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	571866	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	290571	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	1.185	85	3309	0.930	ug/l	89
3) Chloromethane	1.307	50	3761	0.967	ug/l	89
4) Vinyl Chloride	1.386	62	4227	0.998	ug/l	99
6) Chloroethane	1.703	64	3296	1.179	ug/l	94
7) Trichlorofluoromethane	1.910	101	6304	0.963	ug/l	88
8) Diethyl Ether	2.148	74	2346	1.007	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.349	101	3923	0.940	ug/l	93
12) 1,1-Dichloroethene	2.337	96	4037	1.001	ug/l	90
14) Allyl chloride	2.678	41	7259	1.011	ug/l	96
15) Acrylonitrile	3.081	53	9914m	5.298	ug/l	
16) Acetone	2.386	43	8778	5.749	ug/l	89
17) Carbon Disulfide	2.532	76	11797	1.115	ug/l #	88
18) Methyl Acetate	2.715	43	3632	0.903	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	10768	0.945	ug/l	96
20) Methylene Chloride	2.800	84	4636	1.027	ug/l #	91
21) trans-1,2-Dichloroethene	3.111	96	4109	0.995	ug/l	92
22) Diisopropyl ether	3.776	45	12396	0.893	ug/l #	56
23) Vinyl Acetate	3.739	43	46702	4.492	ug/l	97
24) 1,1-Dichloroethane	3.623	63	8033	1.015	ug/l	98
25) 2-Butanone	4.599	43	9681m	4.752	ug/l	
26) 2,2-Dichloropropane	4.483	77	6192	1.051	ug/l	93
27) cis-1,2-Dichloroethene	4.501	96	5289	1.049	ug/l	98
28) Bromochloromethane	4.910	49	3938	1.008	ug/l #	95
29) Tetrahydrofuran	5.025	42	6512	5.015	ug/l #	62
30) Chloroform	5.111	83	8561	1.059	ug/l #	80
32) 1,1,1-Trichloroethane	5.391	97	7025	1.040	ug/l #	49
36) 1,1-Dichloropropene	5.702	75	6211	1.089	ug/l	91
37) Ethyl Acetate	4.763	43	6302m	1.298	ug/l	
38) Carbon Tetrachloride	5.690	117	5859m	0.959	ug/l	
39) Methylcyclohexane	7.385	83	6714	0.941	ug/l	86
40) Benzene	6.050	78	17315	1.004	ug/l #	87
41) Methacrylonitrile	4.958	41	2181m	0.842	ug/l	
42) 1,2-Dichloroethane	6.104	62	6218	1.062	ug/l	88
43) Isopropyl Acetate	6.354	43	6331	0.851	ug/l #	79
44) Trichloroethene	7.135	130	4807	1.071	ug/l	94
45) 1,2-Dichloropropane	7.446	63	4536	1.041	ug/l #	77

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046860.D
 Acq On : 02 Jul 2025 12:11
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Quant Time: Jul 03 05:29:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.592	93	3072	1.018	ug/l	96
47) Bromodichloromethane	7.830	83	6705	1.040	ug/l	91
48) Methyl methacrylate	7.714	41	3198	0.833	ug/l #	54
49) 1,4-Dioxane	7.683	88	860m	19.325	ug/l	
51) 4-Methyl-2-Pentanone	8.580	43	20561	4.684	ug/l	97
52) Toluene	8.726	92	10648	0.996	ug/l	96
53) t-1,3-Dichloropropene	8.994	75	5080	0.883	ug/l	97
54) cis-1,3-Dichloropropene	8.372	75	6171	0.940	ug/l #	47
55) 1,1,2-Trichloroethane	9.159	97	4046	1.016	ug/l #	84
56) Ethyl methacrylate	9.122	69	4850	0.880	ug/l	95
57) 1,3-Dichloropropane	9.311	76	7057	1.030	ug/l	94
58) 2-Chloroethyl Vinyl ether	8.250	63	13509	4.352	ug/l	100
59) 2-Hexanone	9.439	43	12742	4.376	ug/l	94
60) Dibromochloromethane	9.519	129	4772	1.002	ug/l	95
61) 1,2-Dibromoethane	9.610	107	4026	1.007	ug/l	100
64) Tetrachloroethene	9.275	164	4039	1.061	ug/l #	86
65) Chlorobenzene	10.079	112	12712	1.028	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.165	131	4188	1.008	ug/l #	65
67) Ethyl Benzene	10.195	91	20707	0.978	ug/l	96
68) m/p-Xylenes	10.305	106	16047	2.011	ug/l	91
69) o-Xylene	10.640	106	7726	1.002	ug/l	95
70) Styrene	10.659	104	12236	0.928	ug/l	98
71) Bromoform	10.805	173	3071	0.994	ug/l #	97
73) Isopropylbenzene	10.963	105	18985	0.929	ug/l	100
74) N-amyl acetate	10.848	43	5537	0.798	ug/l #	91
75) 1,1,2,2-Tetrachloroethane	11.213	83	5809	1.034	ug/l	94
76) 1,2,3-Trichloropropane	11.238	75	4536m	1.010	ug/l	
77) Bromobenzene	11.201	156	5045	0.992	ug/l	96
78) n-propylbenzene	11.305	91	23522	0.955	ug/l	98
79) 2-Chlorotoluene	11.366	91	14185	0.975	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	14958	0.901	ug/l	100
82) 4-Chlorotoluene	11.457	91	16012	0.954	ug/l	97
83) tert-Butylbenzene	11.713	119	15883	0.927	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	15197	0.906	ug/l	96
85) sec-Butylbenzene	11.890	105	20193	0.934	ug/l	99
86) p-Isopropyltoluene	12.006	119	17131	0.946	ug/l	93
87) 1,3-Dichlorobenzene	11.969	146	9388	0.987	ug/l	97
88) 1,4-Dichlorobenzene	12.036	146	10764m	1.087	ug/l	
89) n-Butylbenzene	12.335	91	15963	0.939	ug/l	99
90) Hexachloroethane	12.536	117	3079	0.960	ug/l	91
91) 1,2-Dichlorobenzene	12.335	146	9448	1.025	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	920	0.937	ug/l	95
93) 1,2,4-Trichlorobenzene	13.591	180	5904	0.942	ug/l	98
94) Hexachlorobutadiene	13.725	225	2281	0.966	ug/l	87
95) Naphthalene	13.780	128	12846	0.778	ug/l	98
96) 1,2,3-Trichlorobenzene	13.963	180	5231	0.884	ug/l	95

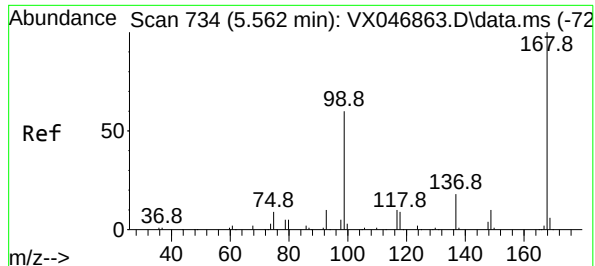
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Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025





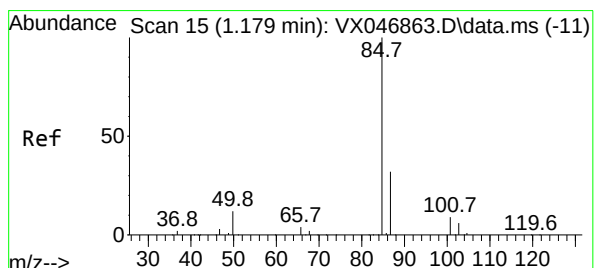
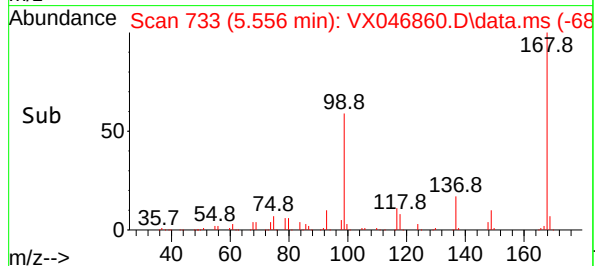
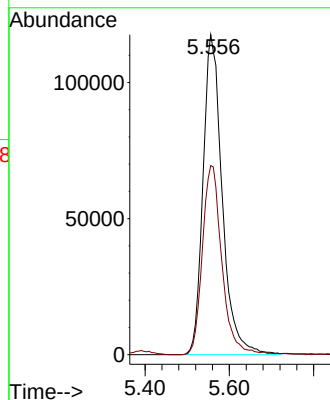
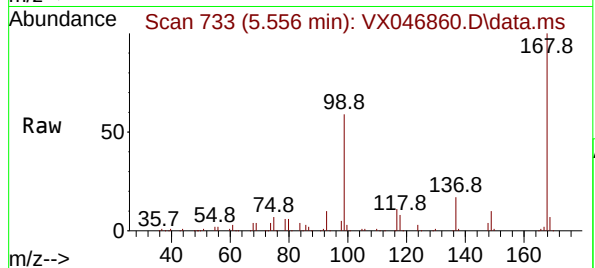
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 372069
Ion Ratio Lower Upper
168 100
99 59.1 48.8 73.2

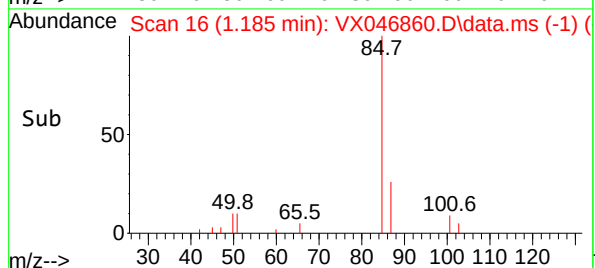
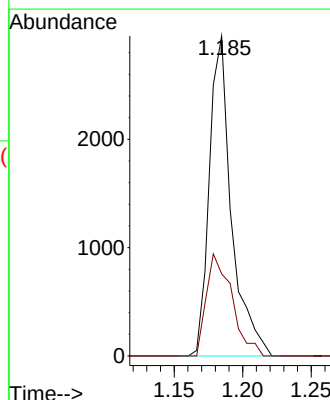
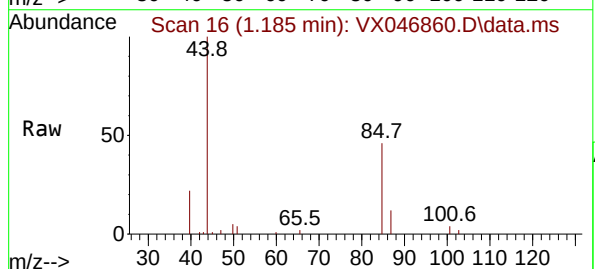
Manual Integrations
APPROVED

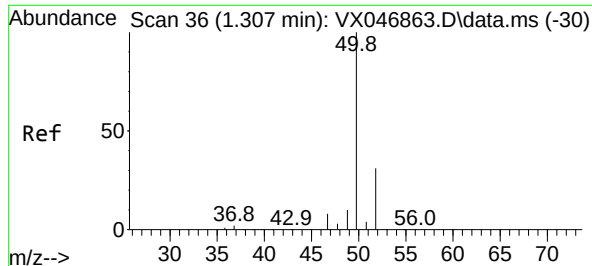
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#2
Dichlorodifluoromethane
Concen: 0.930 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Tgt Ion: 85 Resp: 3309
Ion Ratio Lower Upper
85 100
87 25.7 16.0 47.9





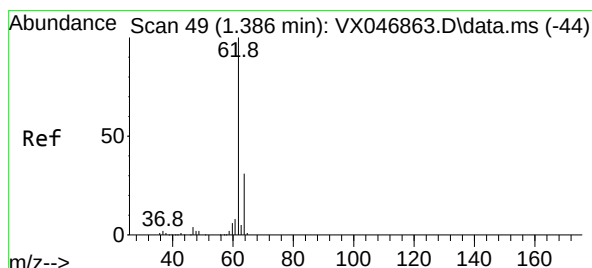
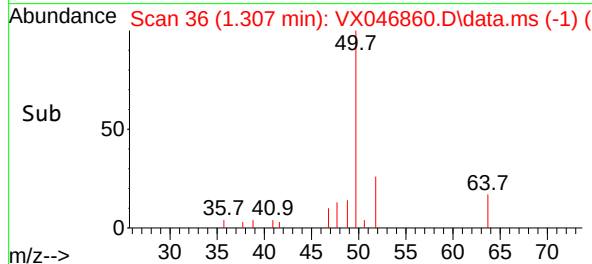
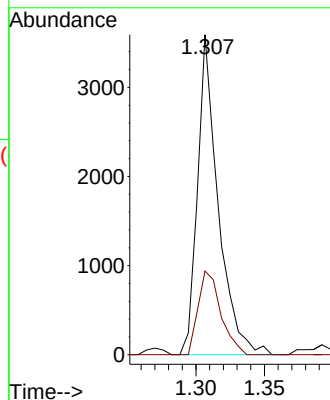
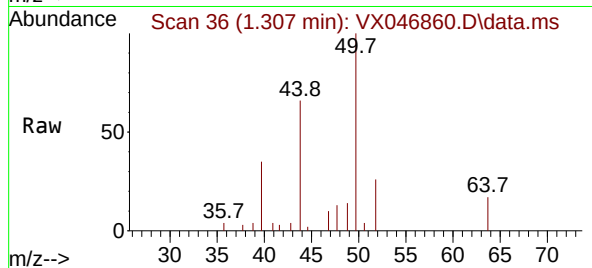
#3
Chloromethane
Concen: 0.967 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 376
Ion Ratio Lower Upper
50 100
52 25.2 25.0 37.4

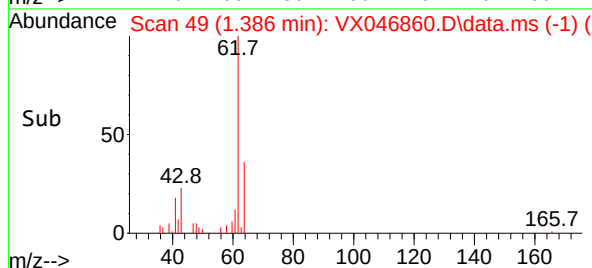
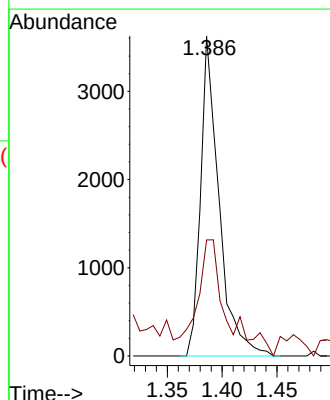
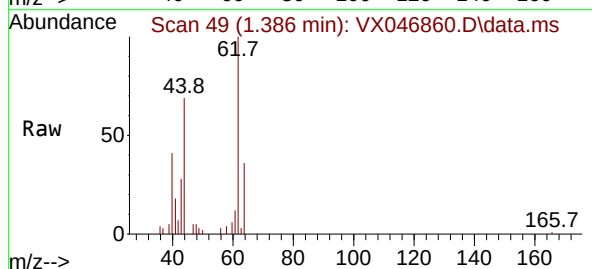
Manual Integrations
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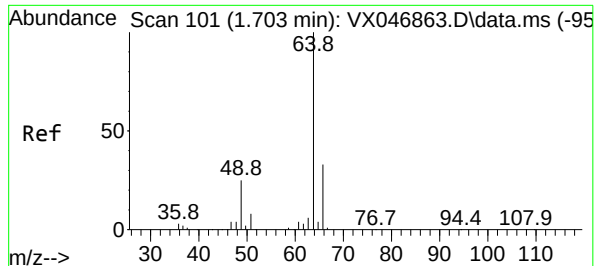
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#4
Vinyl Chloride
Concen: 0.998 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Tgt Ion: 62 Resp: 4227
Ion Ratio Lower Upper
62 100
64 30.4 25.0 37.4





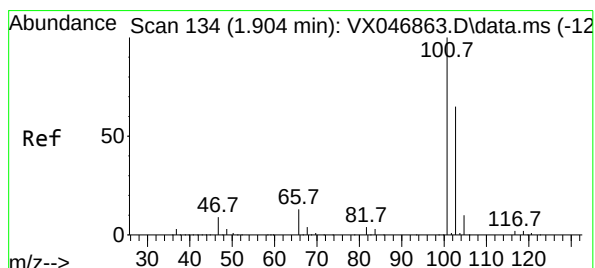
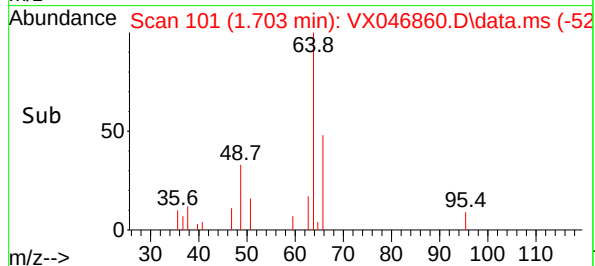
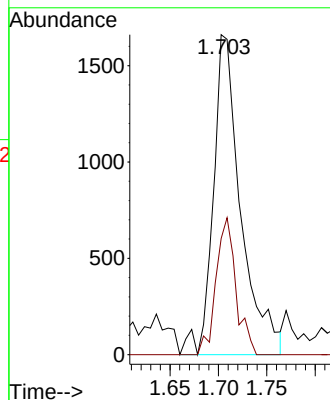
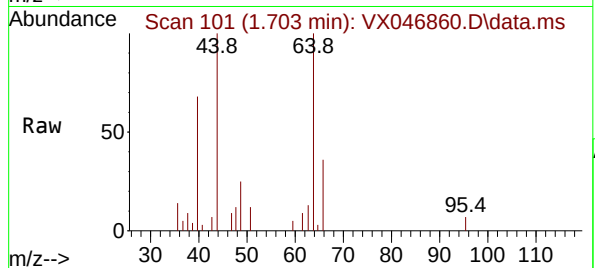
#6
Chloroethane
Concen: 1.179 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 3290
Ion Ratio Lower Upper
64 100
66 36.3 26.4 39.6

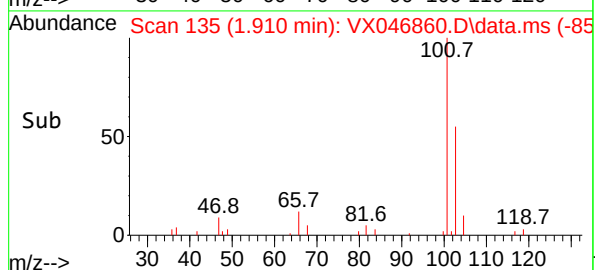
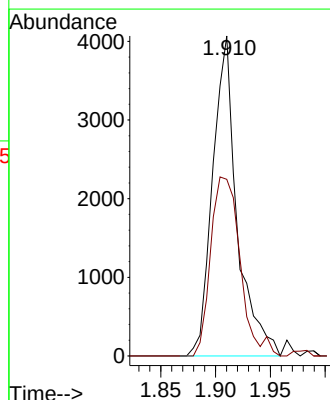
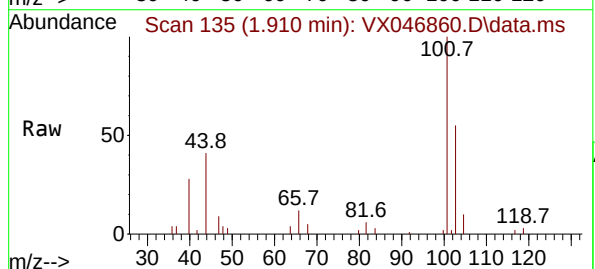
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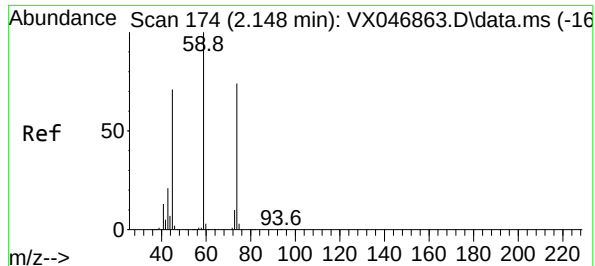
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#7
Trichlorofluoromethane
Concen: 0.963 ug/l
RT: 1.910 min Scan# 135
Delta R.T. 0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

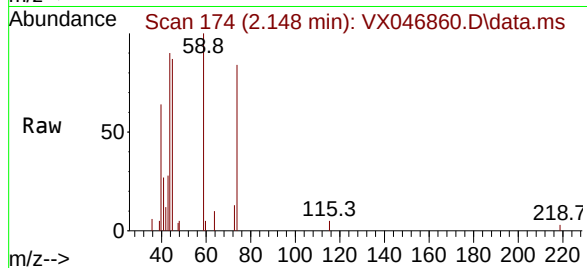
Tgt Ion:101 Resp: 6304
Ion Ratio Lower Upper
101 100
103 55.2 51.9 77.9





#8
Diethyl Ether
Concen: 1.007 ug/l
RT: 2.148 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

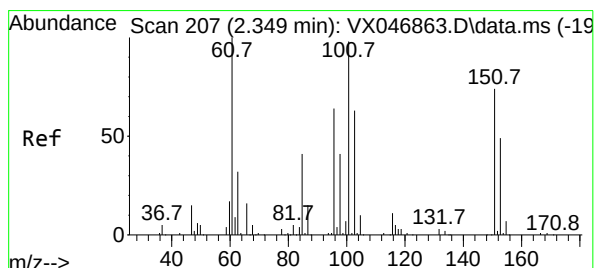
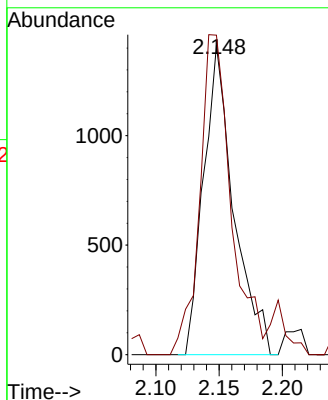
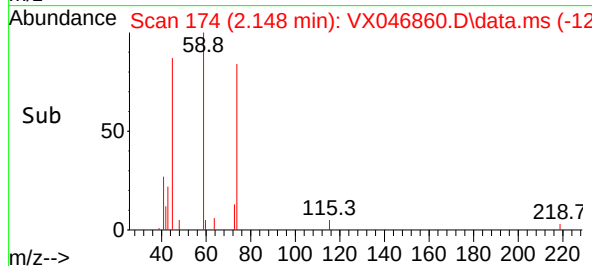
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 74 Resp: 2340
Ion Ratio Lower Upper
74 100
45 107.3 50.7 152.1

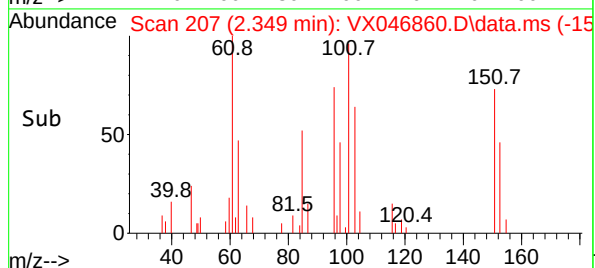
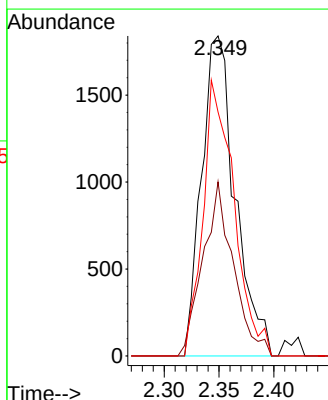
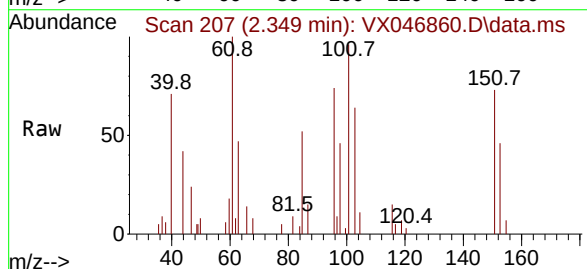
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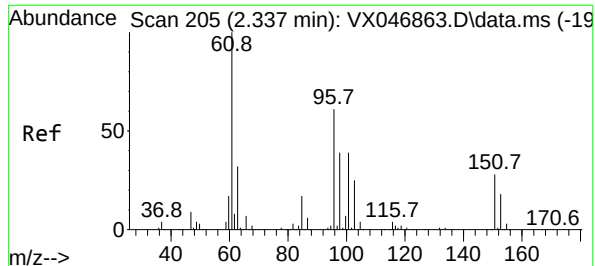
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.940 ug/l
RT: 2.349 min Scan# 207
Delta R.T. -0.000 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Tgt Ion:101 Resp: 3923
Ion Ratio Lower Upper
101 100
85 49.2 34.3 51.5
151 79.7 59.9 89.9





#12

1,1-Dichloroethene

Concen: 1.001 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 96 Resp: 403

Ion Ratio Lower Upper

96 100

61 146.3 130.2 195.4

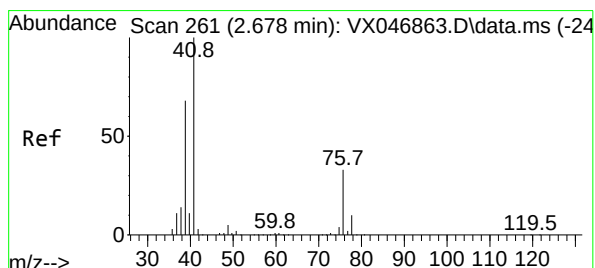
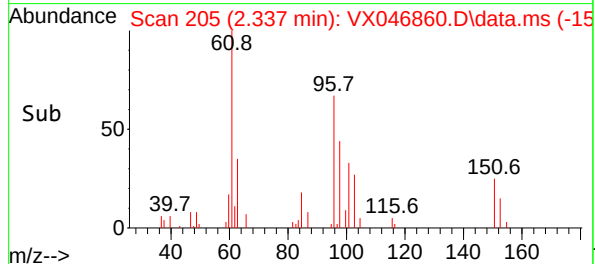
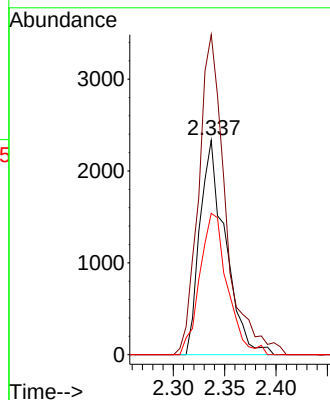
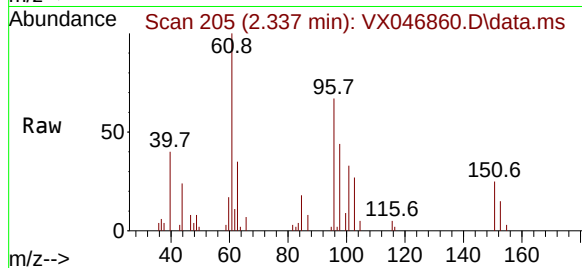
98 66.0 51.3 76.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#14

Allyl chloride

Concen: 1.011 ug/l

RT: 2.678 min Scan# 261

Delta R.T. -0.000 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

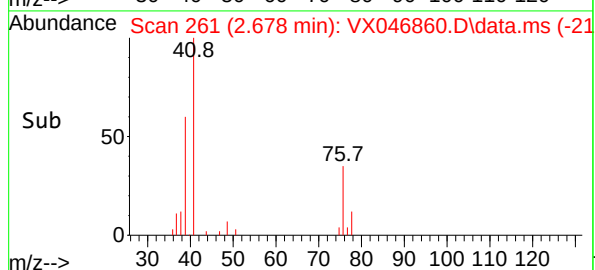
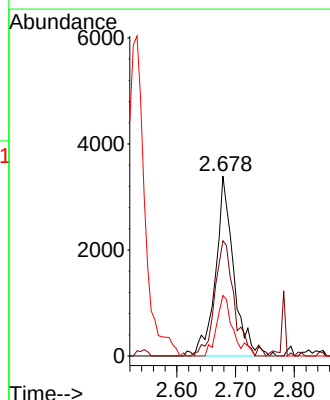
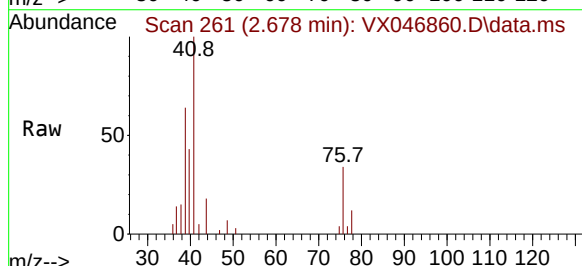
Tgt Ion: 41 Resp: 7259

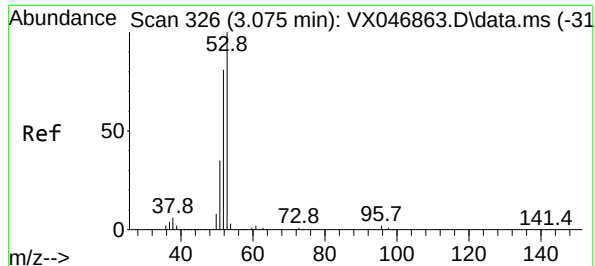
Ion Ratio Lower Upper

41 100

39 67.6 52.0 78.0

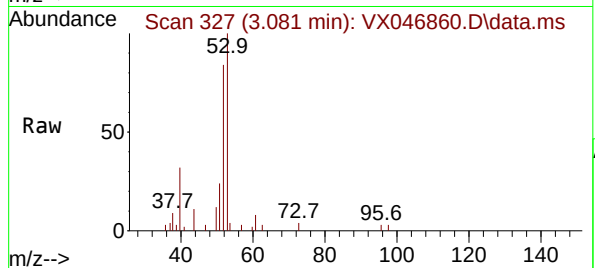
76 30.3 26.2 39.2





#15
Acrylonitrile
Concen: 5.298 ug/l m
RT: 3.081 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

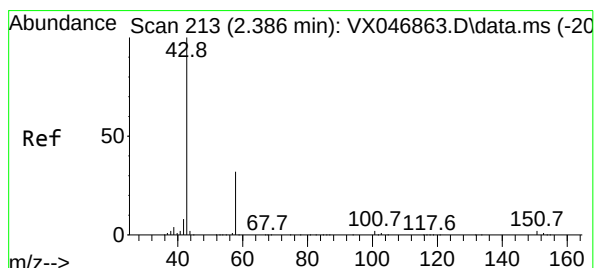
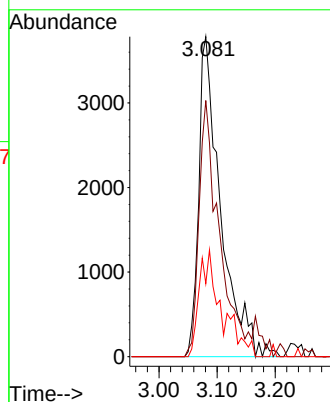
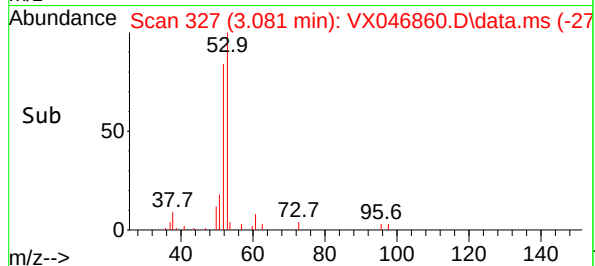
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 53 Resp: 9914
Ion Ratio Lower Upper
53 100
52 72.4 66.0 99.0
51 25.4 28.6 43.0

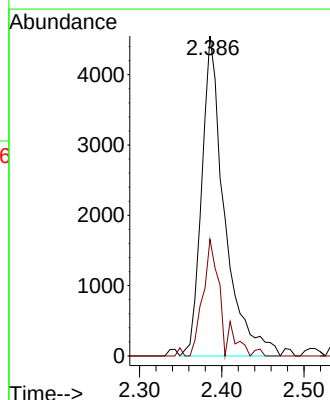
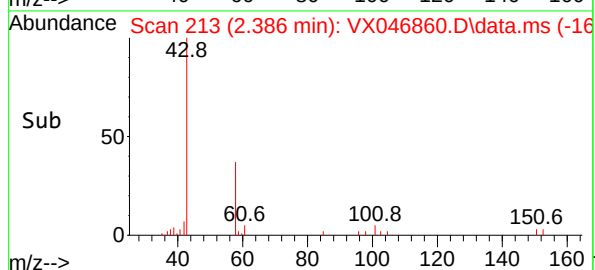
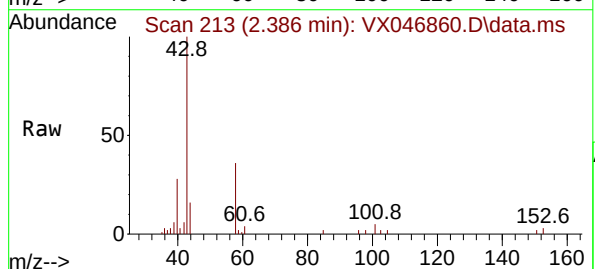
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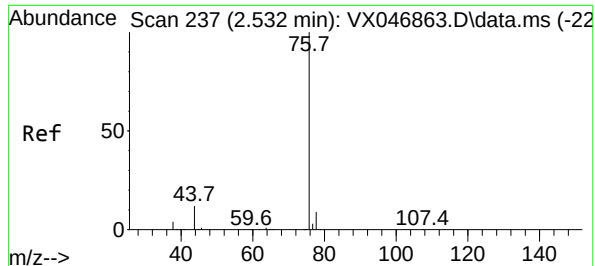
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#16
Acetone
Concen: 5.749 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Tgt Ion: 43 Resp: 8778
Ion Ratio Lower Upper
43 100
58 38.6 25.8 38.6





#17

Carbon Disulfide

Concen: 1.115 ug/l

RT: 2.532 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 76 Resp: 1179

Ion Ratio Lower Upper

76 100

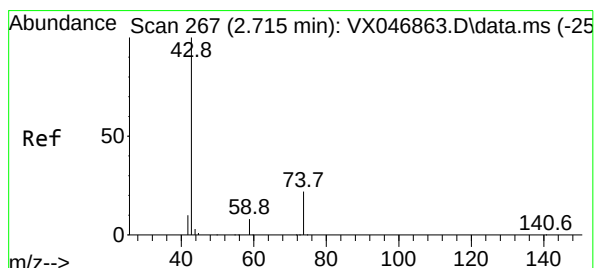
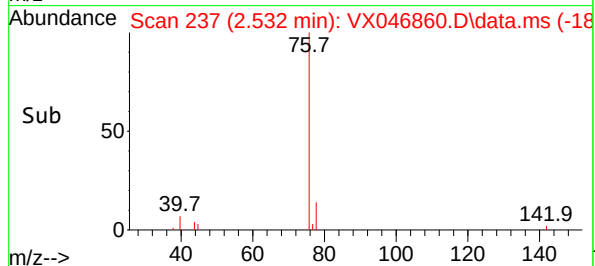
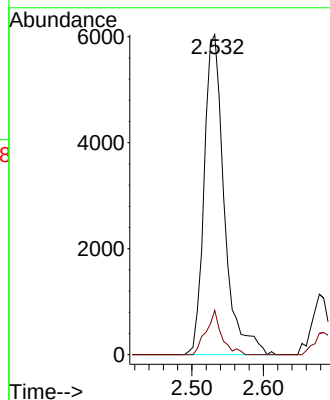
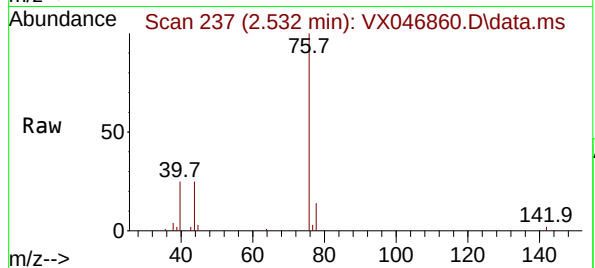
78 13.8 7.4 11.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#18

Methyl Acetate

Concen: 0.903 ug/l

RT: 2.715 min Scan# 267

Delta R.T. -0.000 min

Lab File: VX046860.D

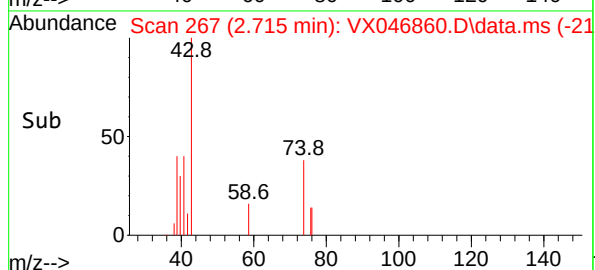
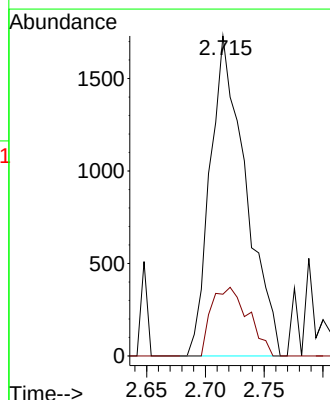
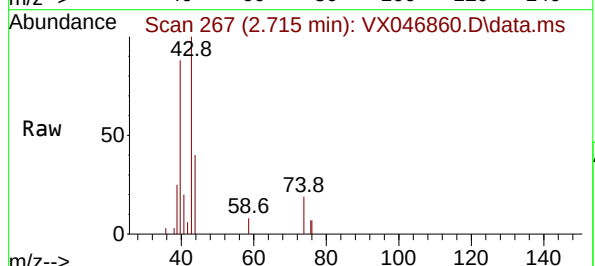
Acq: 02 Jul 2025 12:11

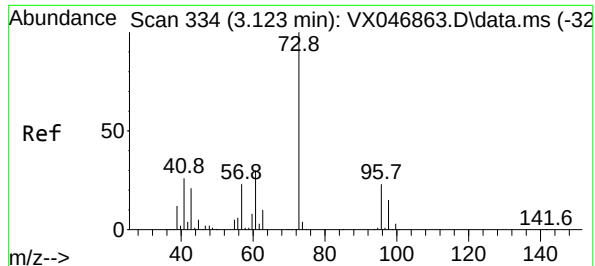
Tgt Ion: 43 Resp: 3632

Ion Ratio Lower Upper

43 100

74 22.3 18.3 27.5





#19

Methyl tert-butyl Ether

Concen: 0.945 ug/l

RT: 3.123 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 73 Resp: 1076

Ion Ratio Lower Upper

73 100

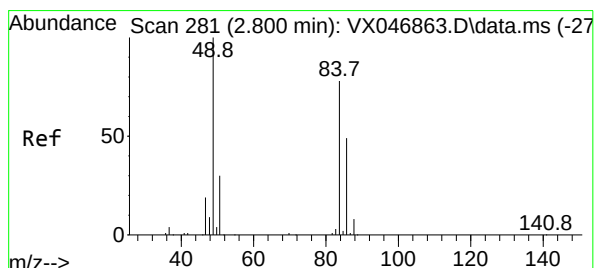
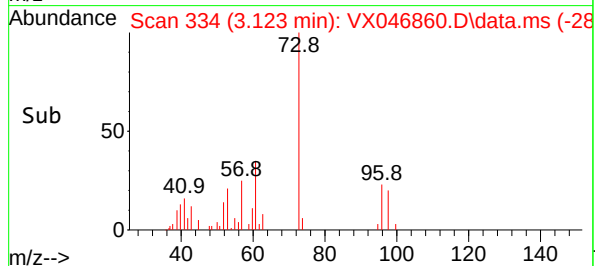
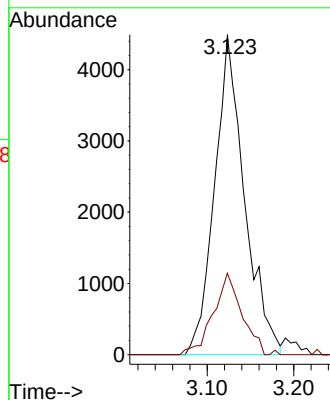
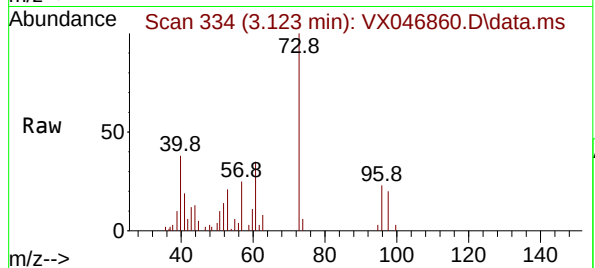
57 25.4 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#20

Methylene Chloride

Concen: 1.027 ug/l

RT: 2.800 min Scan# 281

Delta R.T. -0.000 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Tgt Ion: 84 Resp: 4636

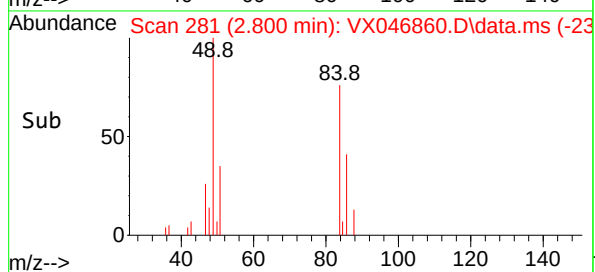
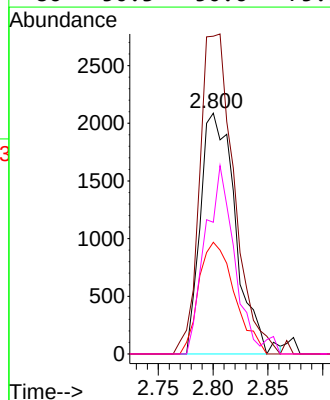
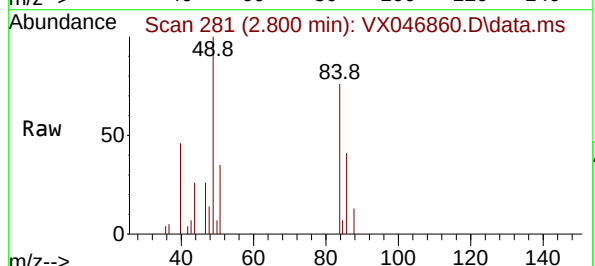
Ion Ratio Lower Upper

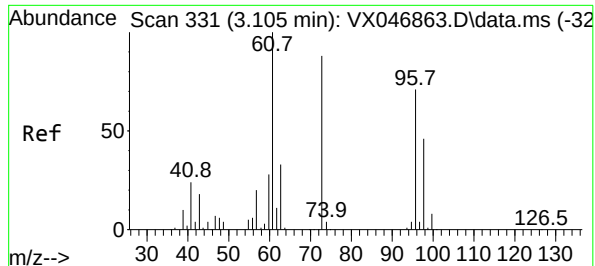
84 100

49 121.5 102.8 154.2

51 42.7 31.1 46.7

86 50.3 50.6 75.8#





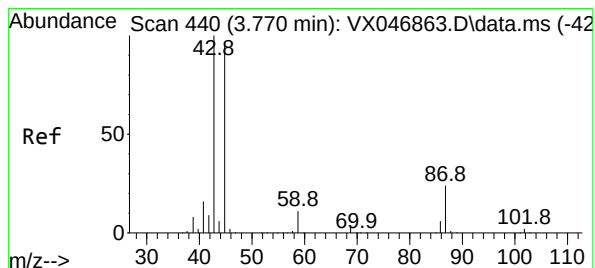
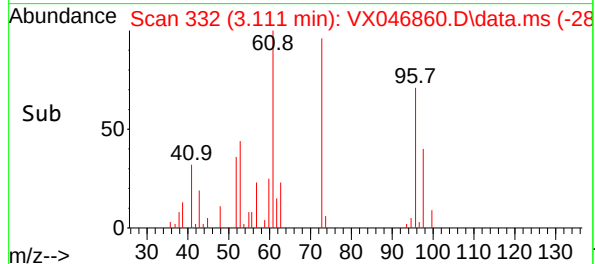
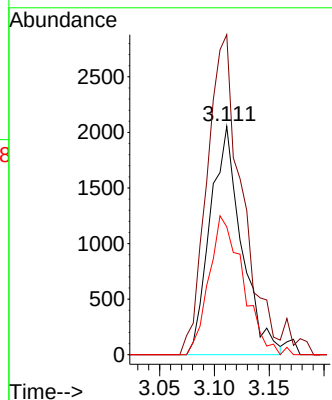
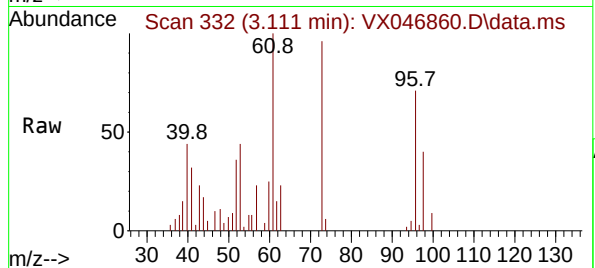
#21
trans-1,2-Dichloroethene
Concen: 0.995 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 96 Resp: 4109
Ion Ratio Lower Upper
96 100
61 134.7 113.4 170.2
98 53.8 51.8 77.6

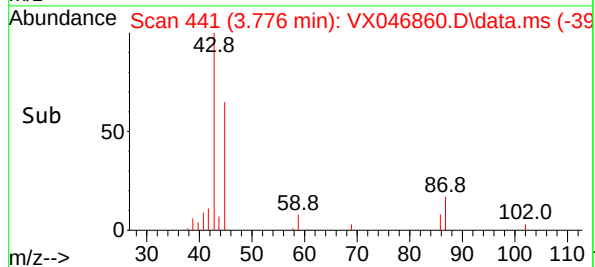
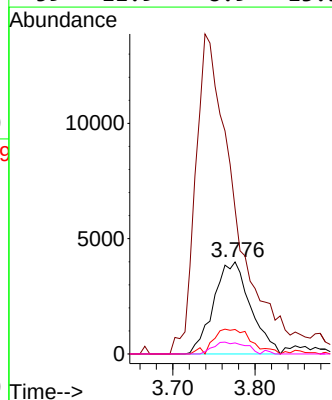
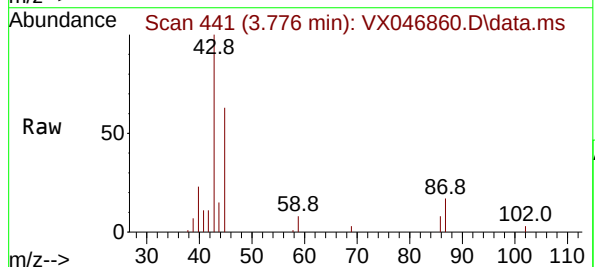
Manual Integrations
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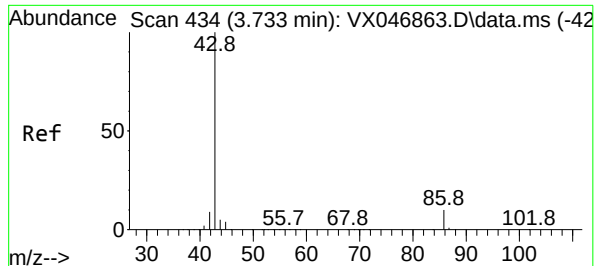
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#22
Diisopropyl ether
Concen: 0.893 ug/l
RT: 3.776 min Scan# 441
Delta R.T. 0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Tgt Ion: 45 Resp: 12396
Ion Ratio Lower Upper
45 100
43 165.5 84.2 126.4#
87 26.6 20.3 30.5
59 11.9 8.9 13.3





#23

Vinyl Acetate

Concen: 4.492 ug/l

RT: 3.739 min Scan# 41

Delta R.T. 0.006 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 4670

Ion Ratio Lower Upper

43 100

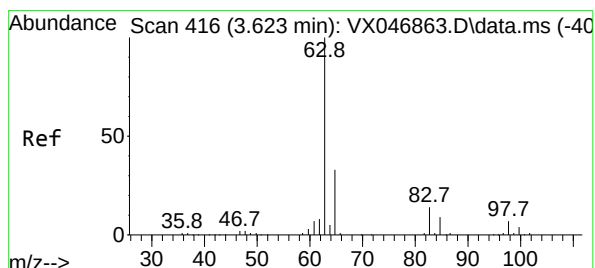
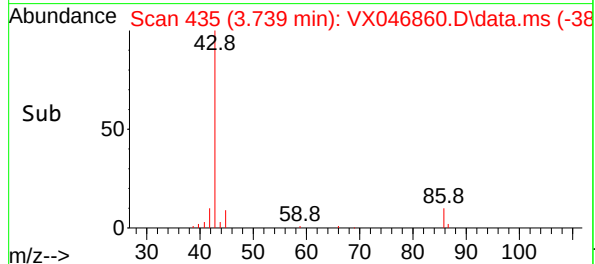
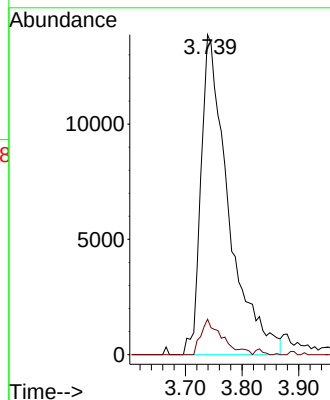
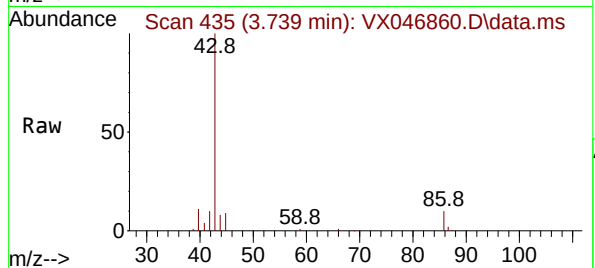
86 11.6 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#24

1,1-Dichloroethane

Concen: 1.015 ug/l

RT: 3.623 min Scan# 416

Delta R.T. -0.000 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

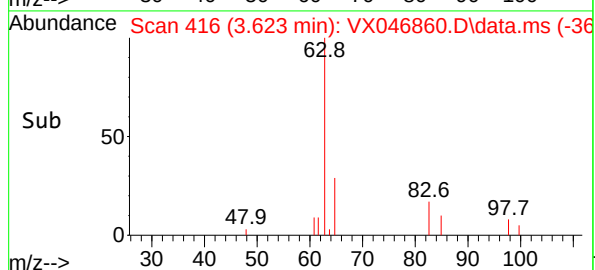
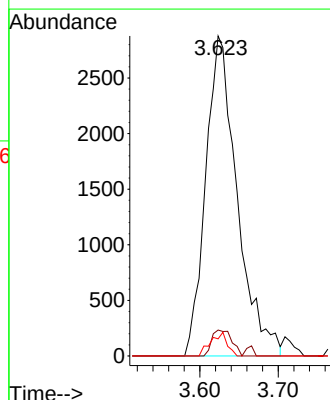
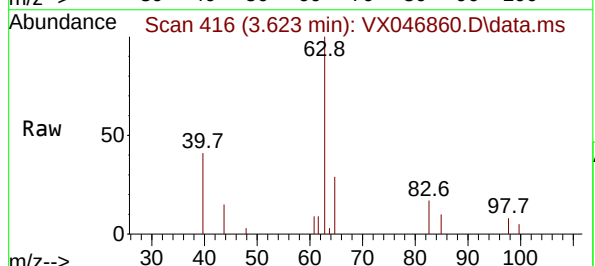
Tgt Ion: 63 Resp: 8033

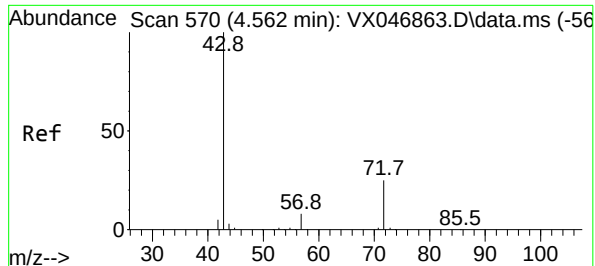
Ion Ratio Lower Upper

63 100

98 8.1 3.6 10.9

100 5.4 2.3 6.9





#25

2-Butanone

Concen: 4.752 ug/l m

RT: 4.599 min Scan# 5

Delta R.T. 0.036 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 968

Ion Ratio Lower Upper

43 100

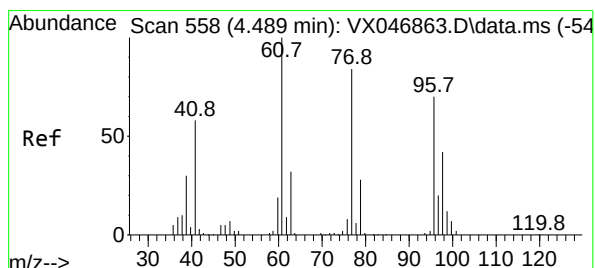
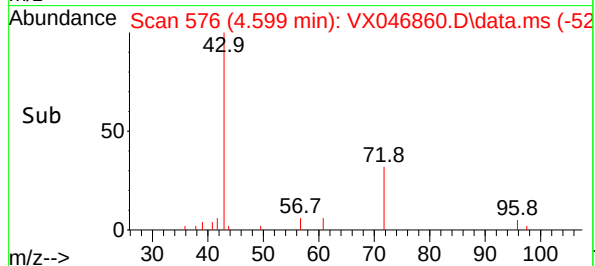
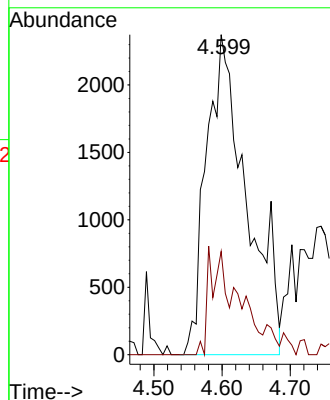
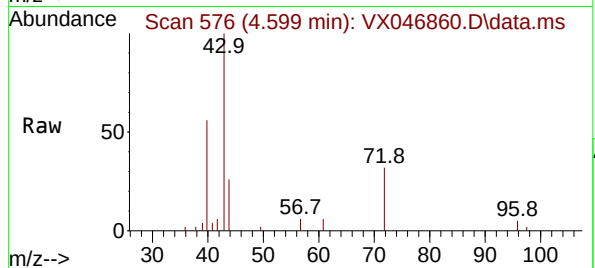
72 32.3 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#26

2,2-Dichloropropane

Concen: 1.051 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.006 min

Lab File: VX046860.D

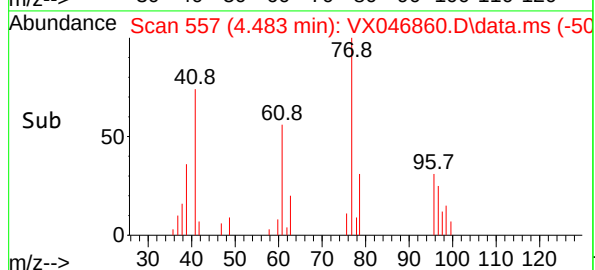
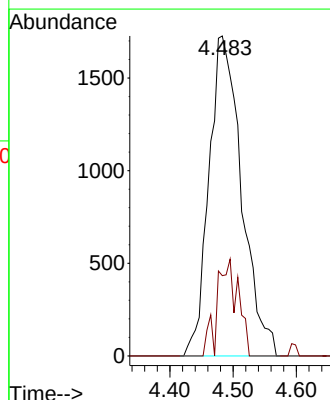
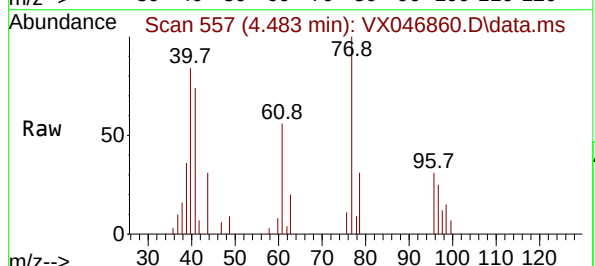
Acq: 02 Jul 2025 12:11

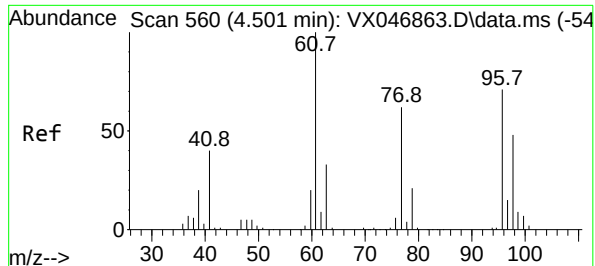
Tgt Ion: 77 Resp: 6192

Ion Ratio Lower Upper

77 100

97 19.4 11.5 34.5





#27

cis-1,2-Dichloroethene

Concen: 1.049 ug/l

RT: 4.501 min Scan# 560

Delta R.T. -0.000 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 96 Resp: 5289

Ion Ratio Lower Upper

96 100

61 141.8 0.0 288.6

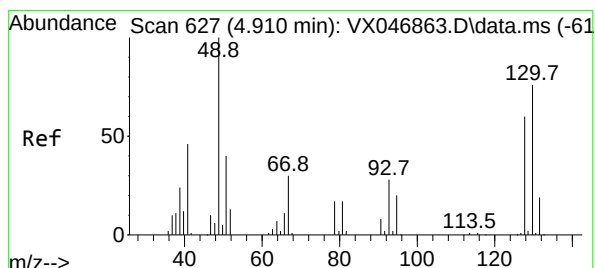
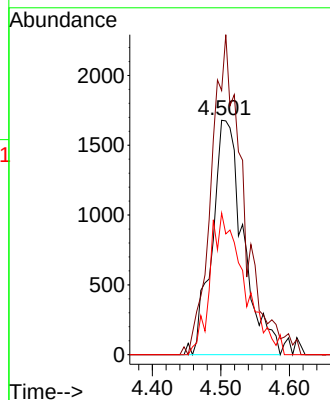
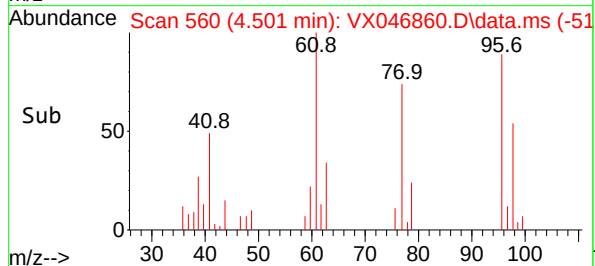
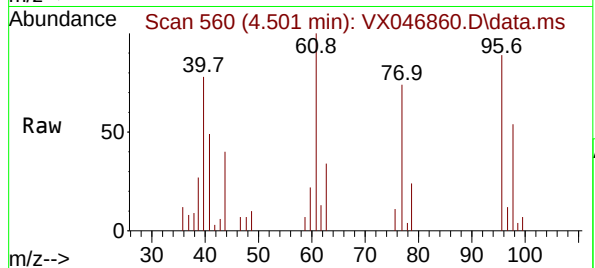
98 66.9 0.0 128.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#28

Bromochloromethane

Concen: 1.008 ug/l

RT: 4.910 min Scan# 627

Delta R.T. -0.000 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

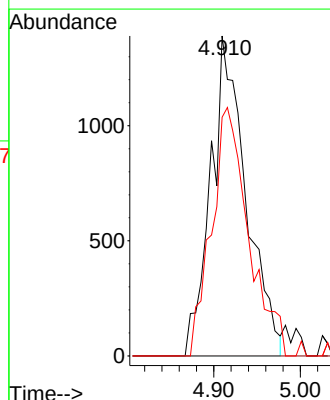
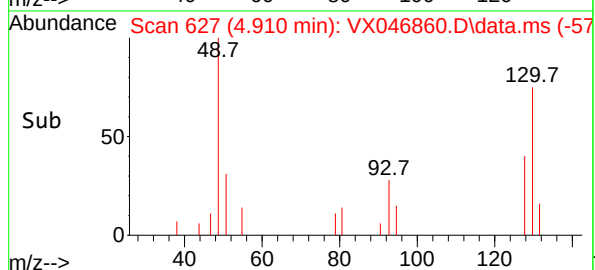
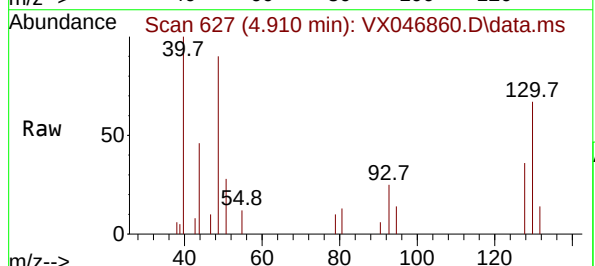
Tgt Ion: 49 Resp: 3938

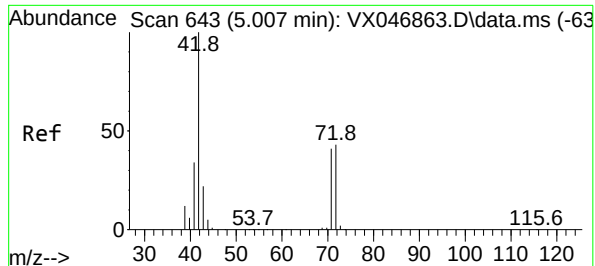
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 81.1 61.7 92.5





#29

Tetrahydrofuran

Concen: 5.015 ug/l

RT: 5.025 min Scan# 64

Delta R.T. 0.018 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 42 Resp: 651

Ion Ratio Lower Upper

42 100

72 34.8 35.1 52.7

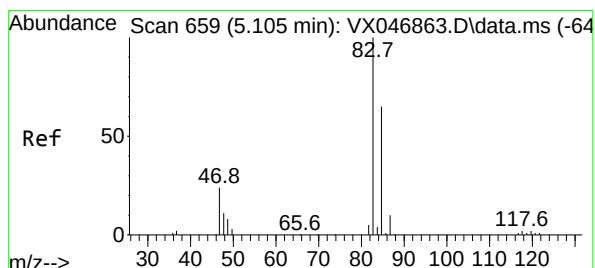
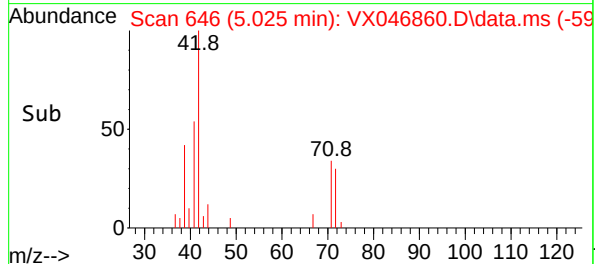
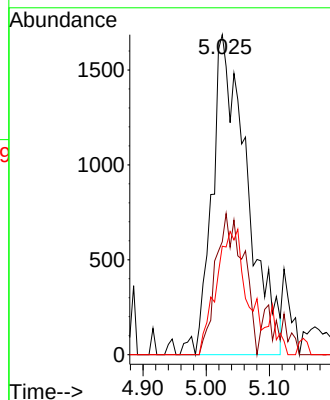
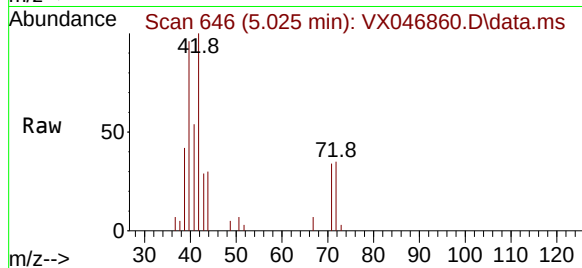
71 0.0 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#30

Chloroform

Concen: 1.059 ug/l

RT: 5.111 min Scan# 660

Delta R.T. 0.006 min

Lab File: VX046860.D

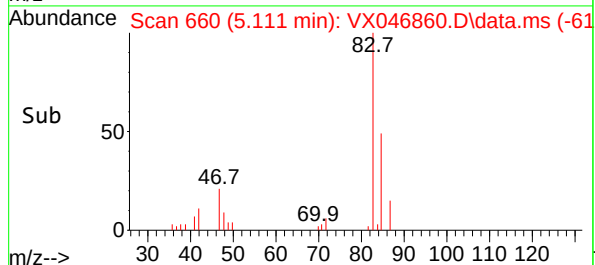
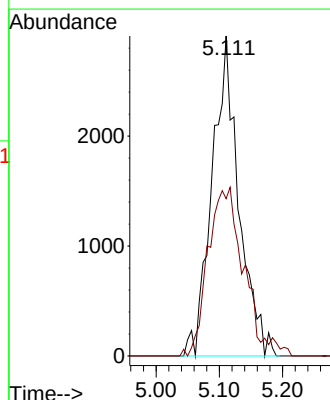
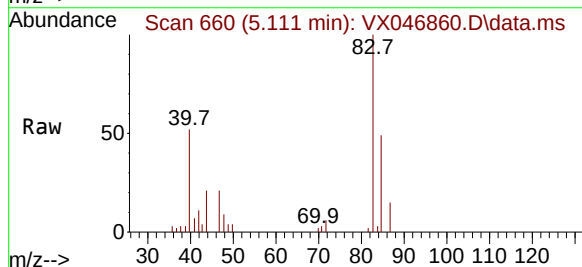
Acq: 02 Jul 2025 12:11

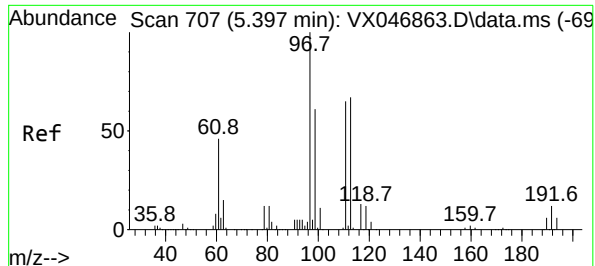
Tgt Ion: 83 Resp: 8561

Ion Ratio Lower Upper

83 100

85 49.2 51.8 77.8





#32

1,1,1-Trichloroethane

Concen: 1.040 ug/l

RT: 5.391 min Scan# 707

Delta R.T. -0.006 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 702

Ion Ratio Lower Upper

97 100

99 0.0 50.6 76.0

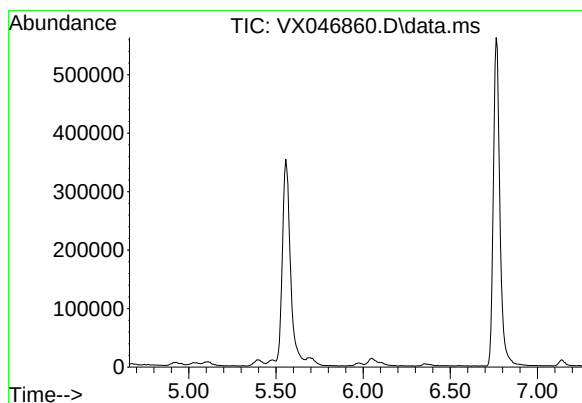
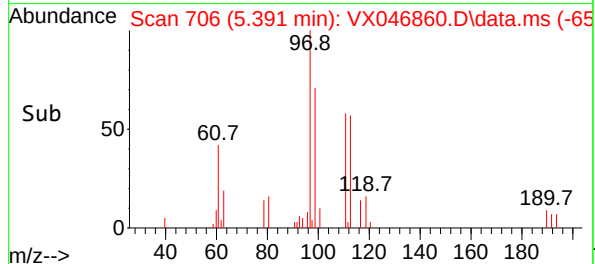
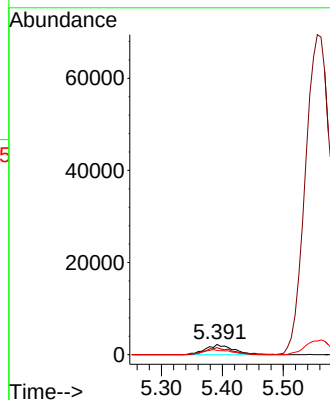
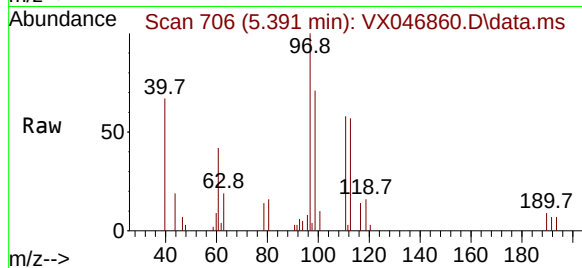
61 50.6 36.3 54.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 5.96 min

Lab File: VX046860.D

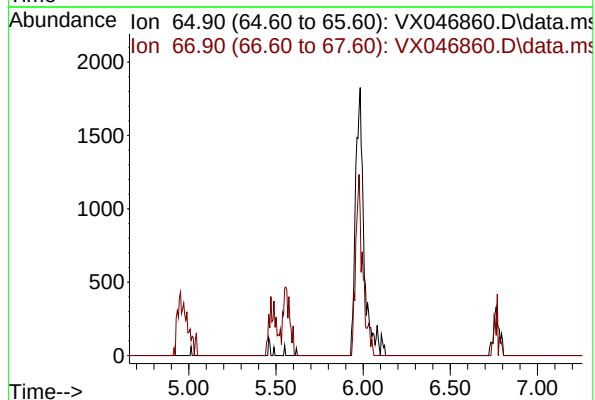
Acq: 02 Jul 2025 12:11

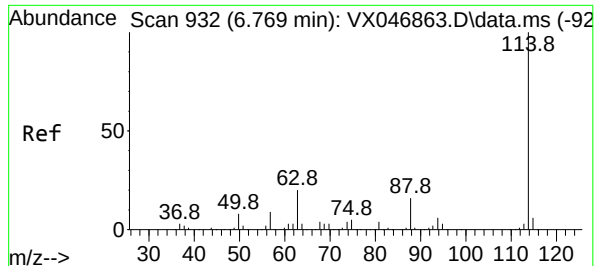
Tgt Ion: 65

Sig Exp Ratio

65 100

67 52.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:114 Resp: 62256

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.4

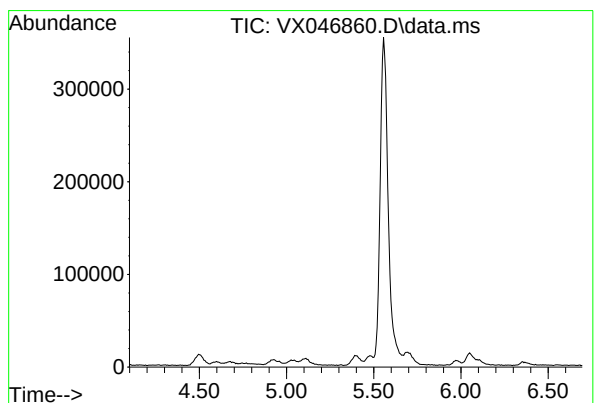
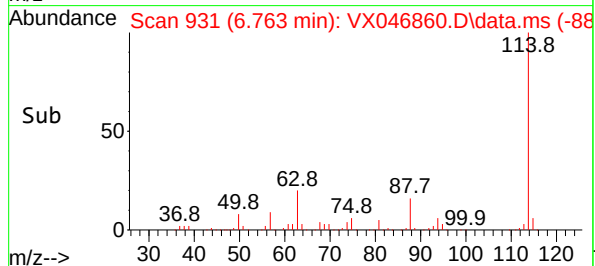
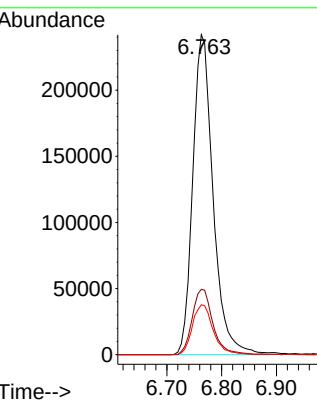
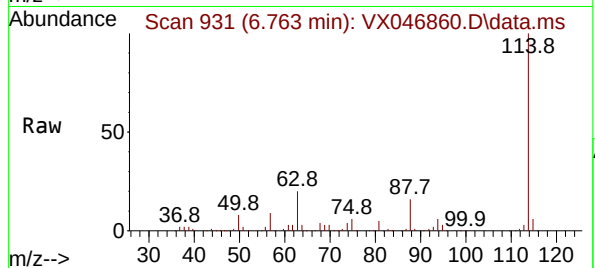
88 15.6 0.0 31.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 5.40 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

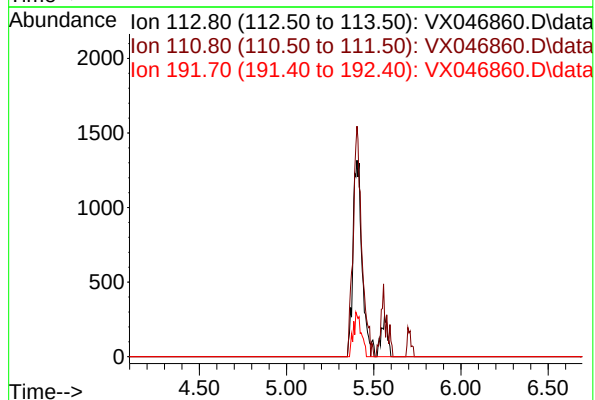
Tgt Ion: 113

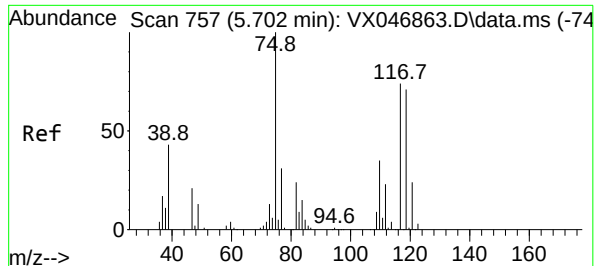
Sig Exp Ratio

113 100

111 101.5

192 19.1





#36

1,1-Dichloropropene

Concen: 1.089 ug/l

RT: 5.702 min Scan# 757

Delta R.T. -0.000 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 621

Ion Ratio Lower Upper

75 100

110 27.6 17.3 51.9

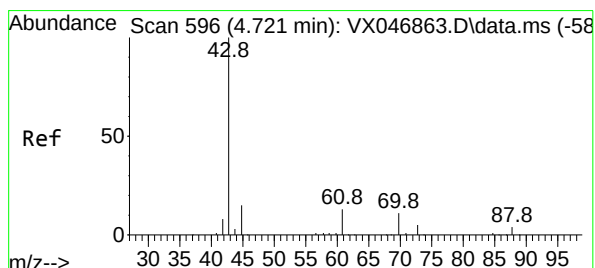
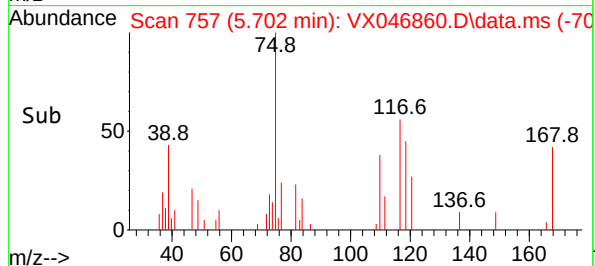
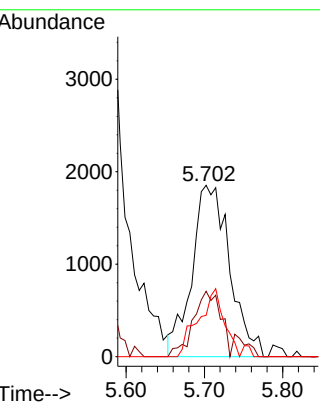
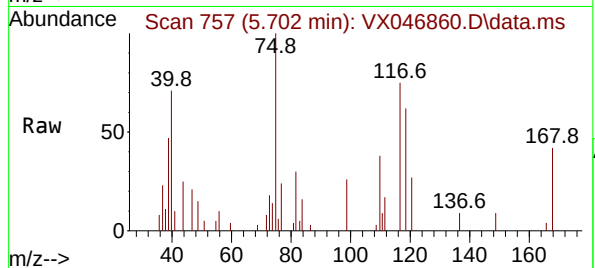
77 27.2 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#37

Ethyl Acetate

Concen: 1.298 ug/l m

RT: 4.763 min Scan# 603

Delta R.T. 0.043 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

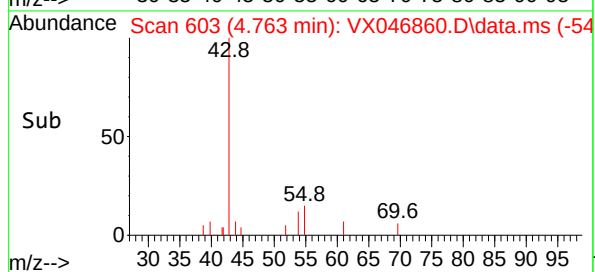
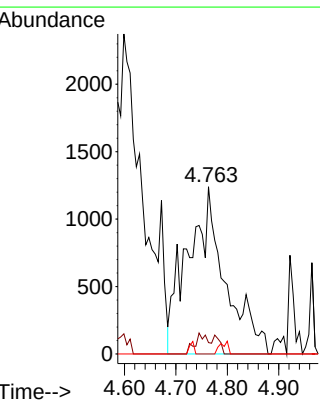
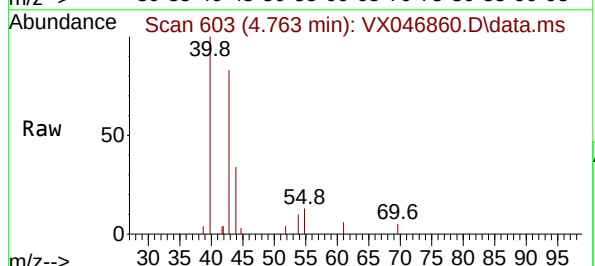
Tgt Ion: 43 Resp: 6302

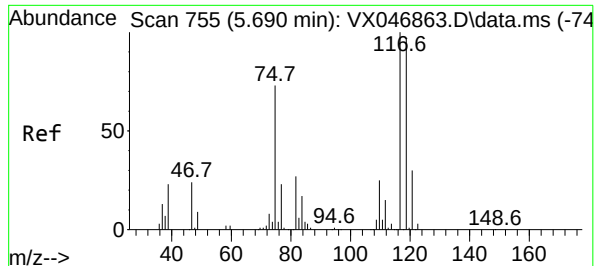
Ion Ratio Lower Upper

43 100

61 0.0 9.7 14.5#

70 0.0 8.3 12.5#





#38

Carbon Tetrachloride

Concen: 0.959 ug/l m

RT: 5.690 min Scan# 755

Delta R.T. -0.000 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:117 Resp: 585

Ion Ratio Lower Upper

117 100

119 83.0 76.6 114.8

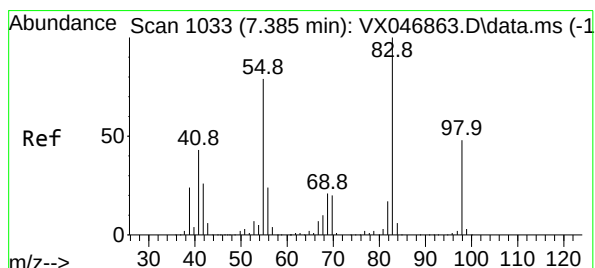
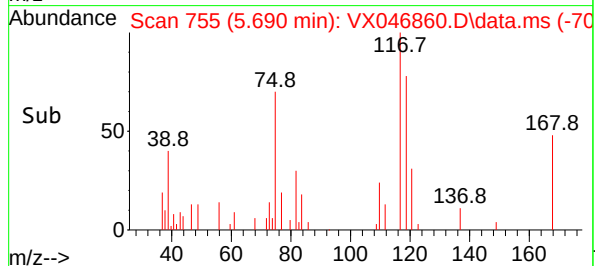
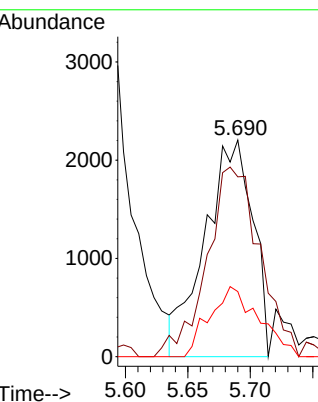
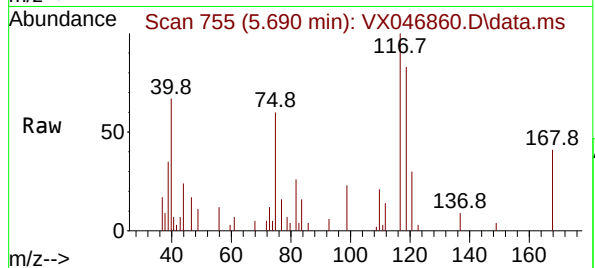
121 30.0 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#39

Methylcyclohexane

Concen: 0.941 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.000 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

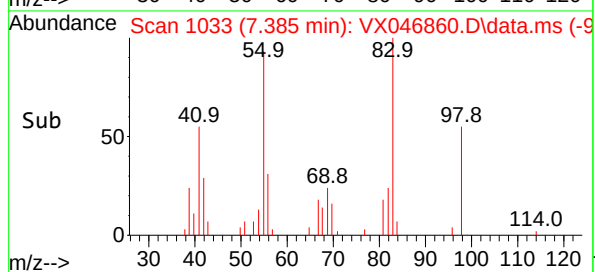
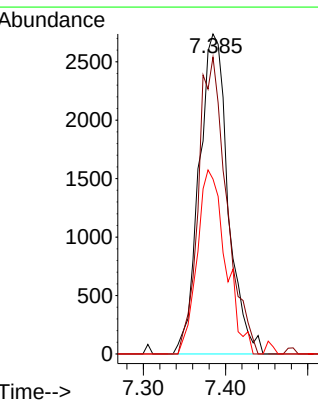
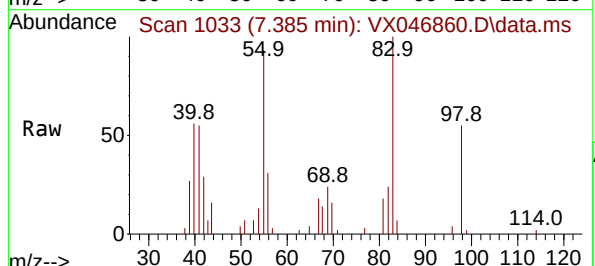
Tgt Ion: 83 Resp: 6714

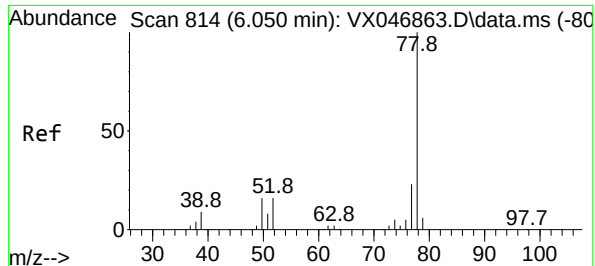
Ion Ratio Lower Upper

83 100

55 92.7 63.0 94.4

98 54.7 38.5 57.7





#40

Benzene

Concen: 1.004 ug/l

RT: 6.050 min Scan# 814

Delta R.T. -0.000 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 78 Resp: 1731

Ion Ratio Lower Upper

78 100

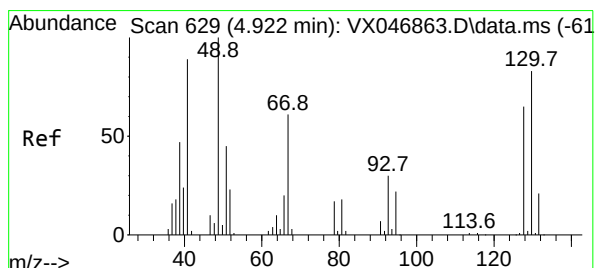
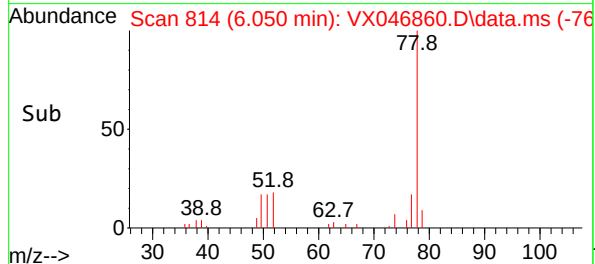
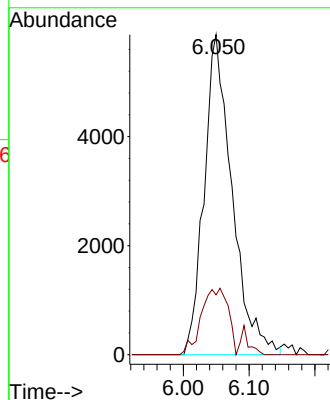
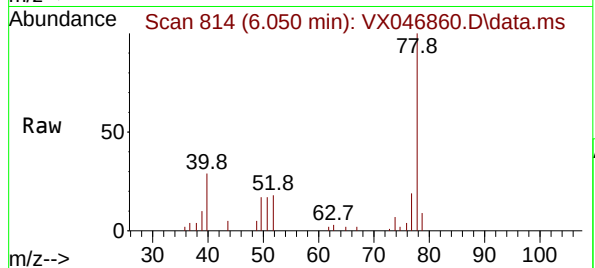
77 17.1 18.7 28.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#41

Methacrylonitrile

Concen: 0.842 ug/l m

RT: 4.958 min Scan# 635

Delta R.T. 0.036 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Tgt Ion: 41 Resp: 2181

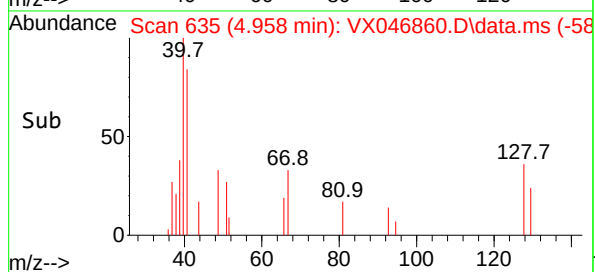
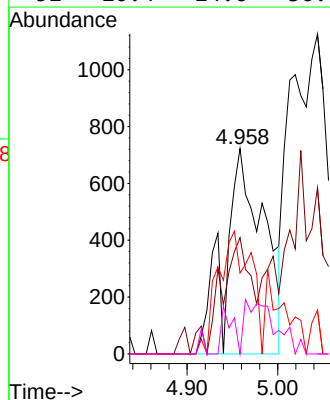
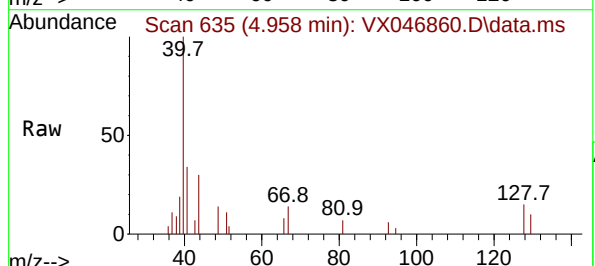
Ion Ratio Lower Upper

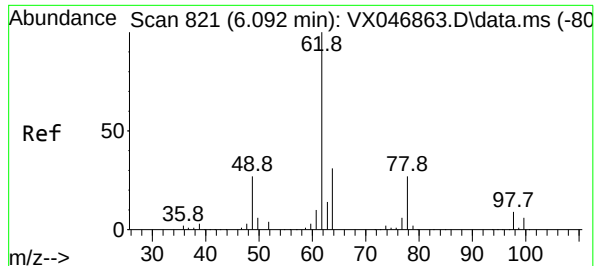
41 100

39 43.0 43.0 64.4

67 49.2 60.2 90.2#

52 20.4 24.6 36.8#





#42

1,2-Dichloroethane

Concen: 1.062 ug/l

RT: 6.104 min Scan# 821

Delta R.T. 0.012 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 62 Resp: 6218

Ion Ratio Lower Upper

62 100

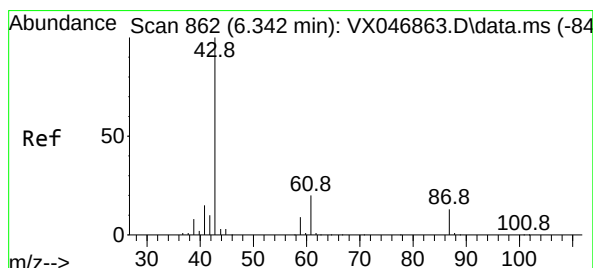
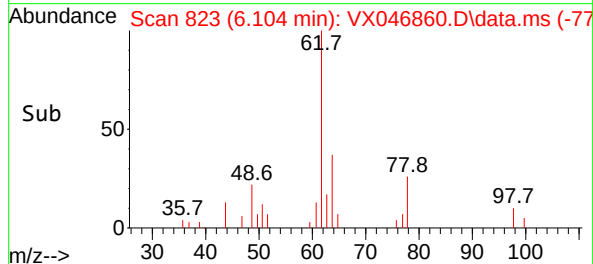
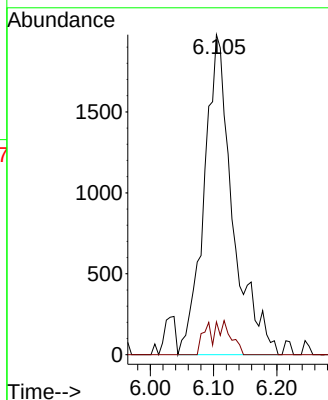
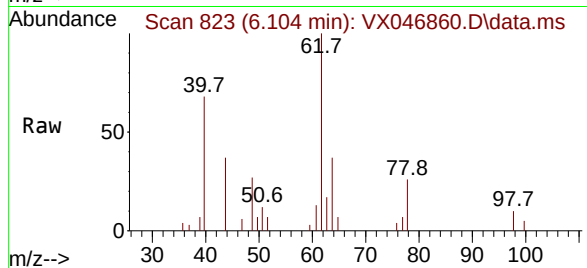
98 5.3 0.0 19.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#43

Isopropyl Acetate

Concen: 0.851 ug/l

RT: 6.354 min Scan# 864

Delta R.T. 0.012 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

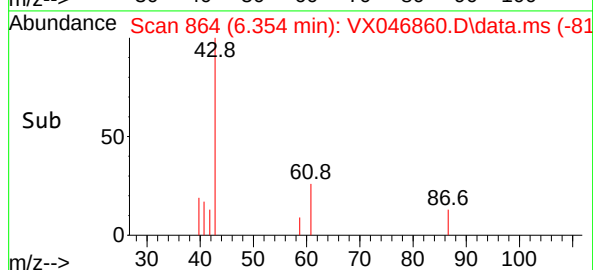
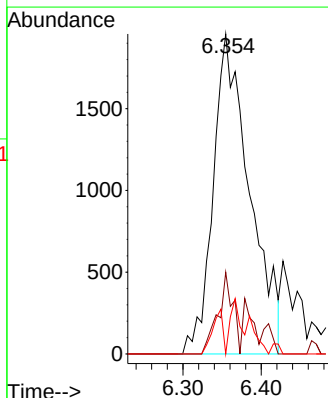
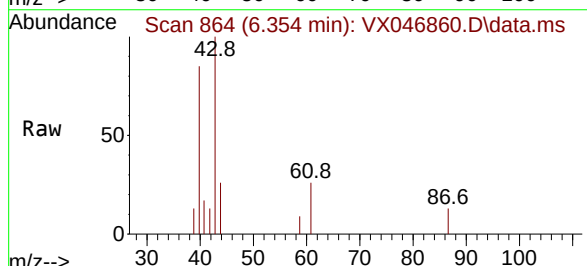
Tgt Ion: 43 Resp: 6331

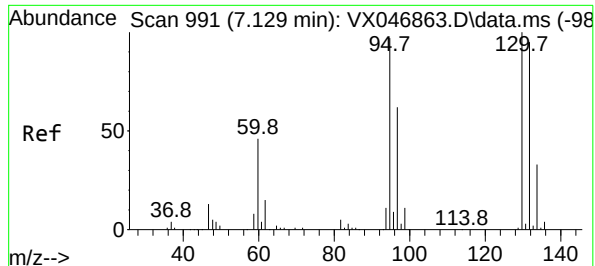
Ion Ratio Lower Upper

43 100

61 10.5 15.7 23.5#

87 3.9 10.1 15.1#





#44

Trichloroethene

Concen: 1.071 ug/l

RT: 7.135 min Scan# 991

Delta R.T. 0.006 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:130 Resp: 480

Ion Ratio Lower Upper

130 100

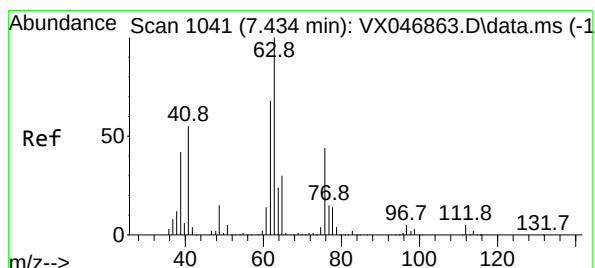
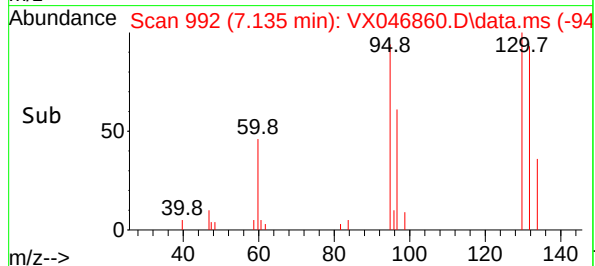
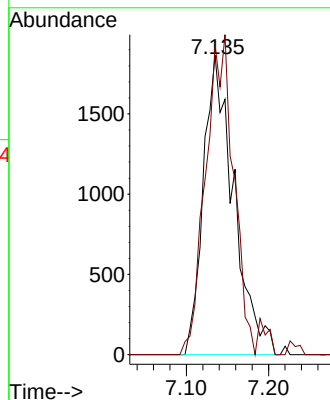
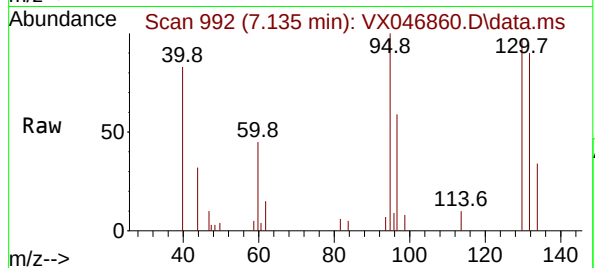
95 103.3 0.0 194.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#45

1,2-Dichloropropane

Concen: 1.041 ug/l

RT: 7.446 min Scan# 1043

Delta R.T. 0.012 min

Lab File: VX046860.D

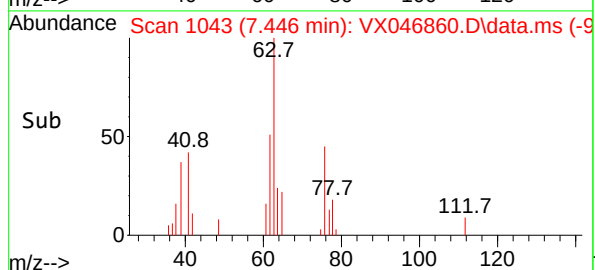
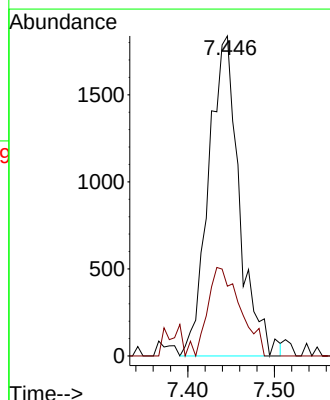
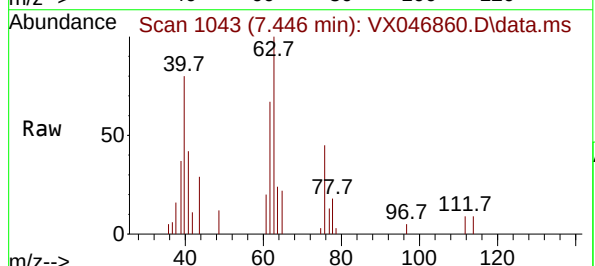
Acq: 02 Jul 2025 12:11

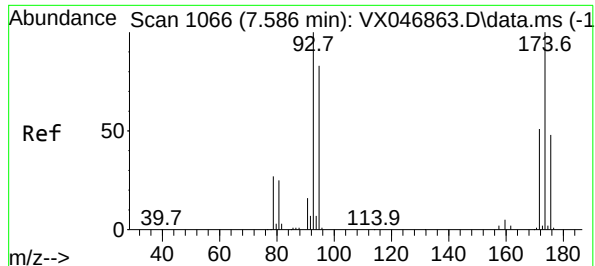
Tgt Ion: 63 Resp: 4536

Ion Ratio Lower Upper

63 100

65 17.7 24.2 36.2#





#46

Dibromomethane

Concen: 1.018 ug/l

RT: 7.592 min Scan# 1106

Delta R.T. 0.006 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

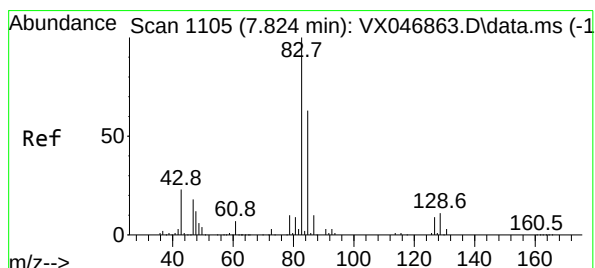
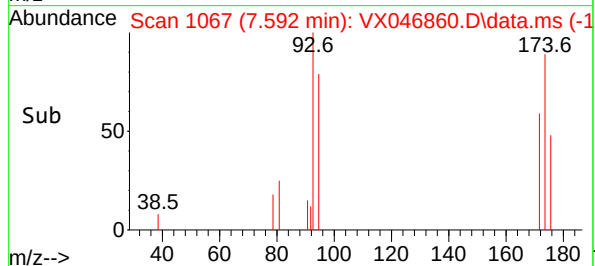
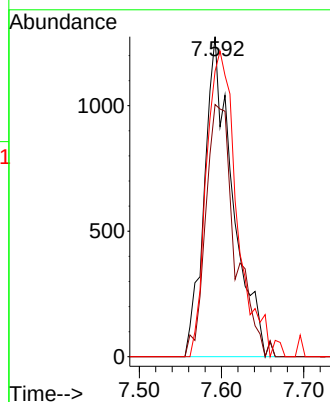
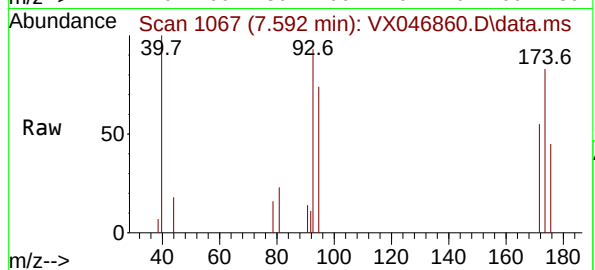
Tgt Ion:	93	Resp:	3072
Ion	Ratio	Lower	Upper
93	100		
95	81.8	66.6	99.8
174	103.1	77.4	116.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#47

Bromodichloromethane

Concen: 1.040 ug/l

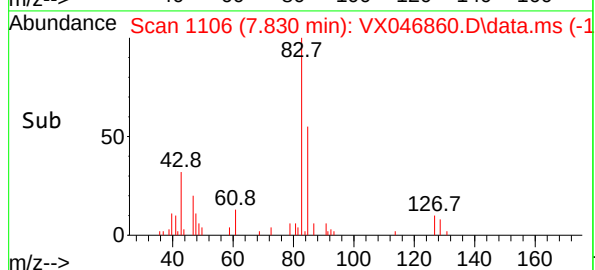
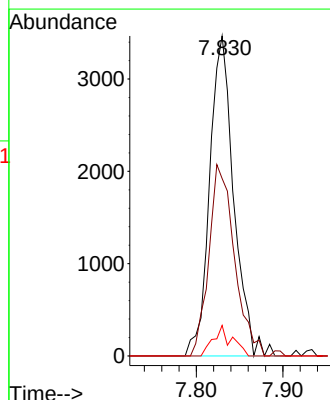
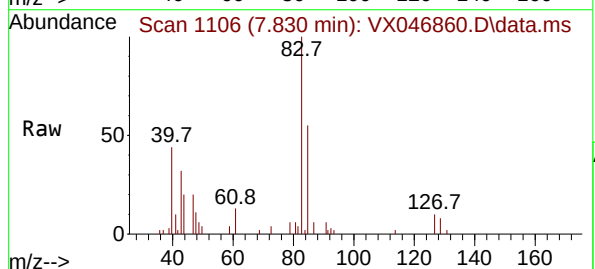
RT: 7.830 min Scan# 1106

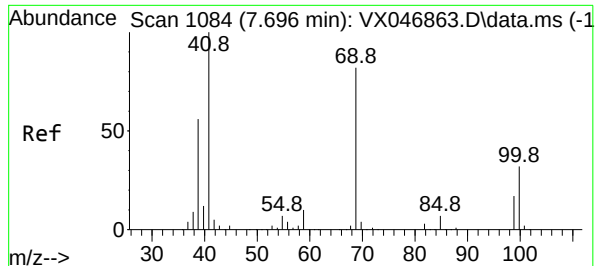
Delta R.T. 0.006 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Tgt Ion:	83	Resp:	6705
Ion	Ratio	Lower	Upper
83	100		
85	55.4	50.2	75.4
127	9.6	7.1	10.7





#48

Methyl methacrylate

Concen: 0.833 ug/l

RT: 7.714 min Scan# 1087

Delta R.T. 0.018 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

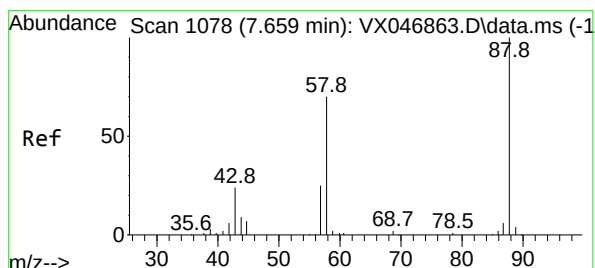
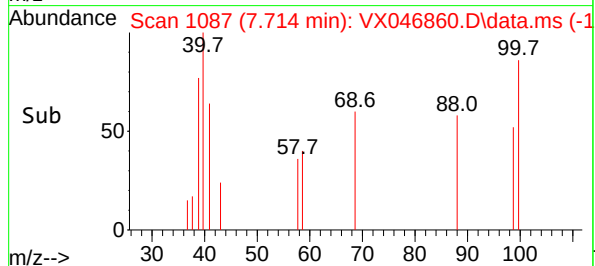
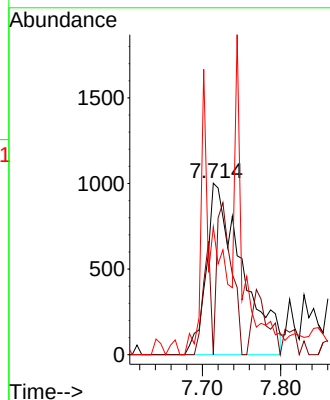
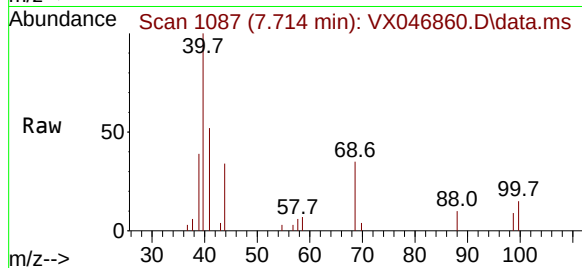
Tgt Ion:	41	Resp:	3198
Ion	Ratio	Lower	Upper
41	100		
69	13.8	65.8	98.8
39	55.5	43.8	65.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#49

1,4-Dioxane

Concen: 19.325 ug/l m

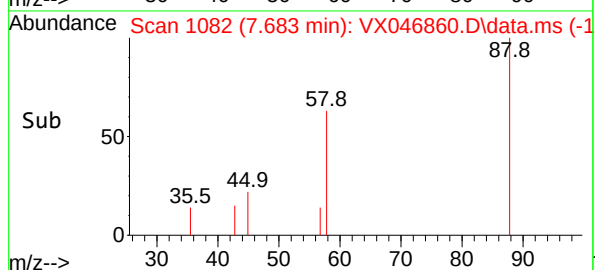
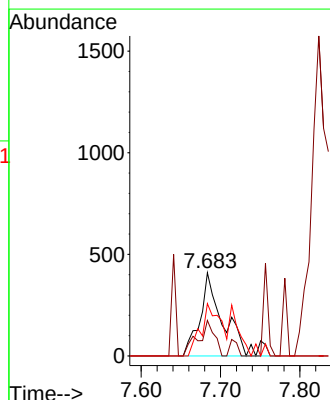
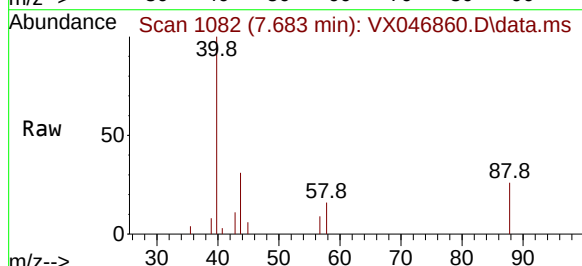
RT: 7.683 min Scan# 1082

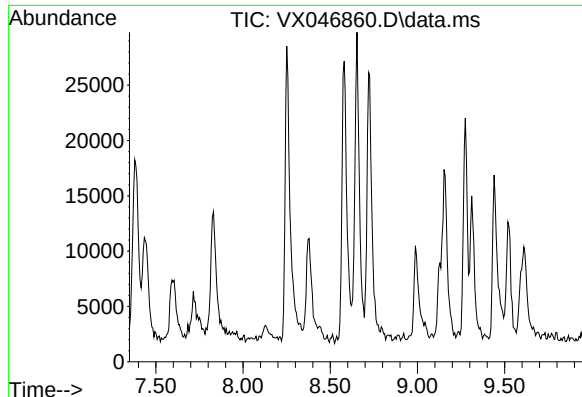
Delta R.T. 0.024 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Tgt Ion:	88	Resp:	860
Ion	Ratio	Lower	Upper
88	100		
43	29.1	31.7	47.5
58	51.5	57.5	86.3





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

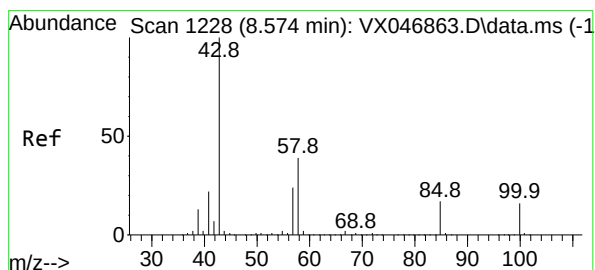
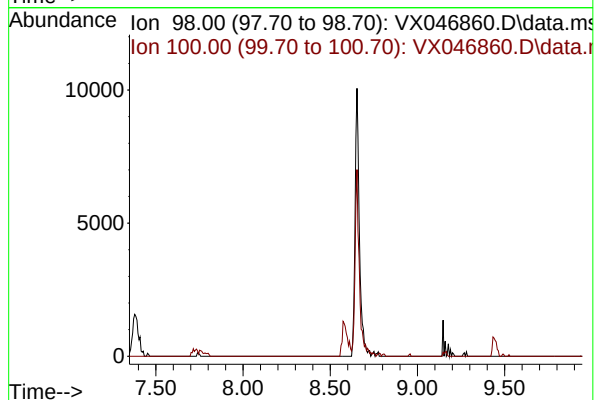
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Tgt Ion: 98
Sig Exp Ratio
98 100
100 66.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

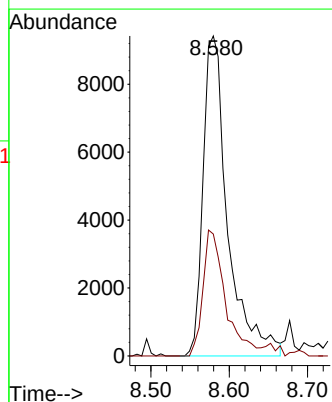
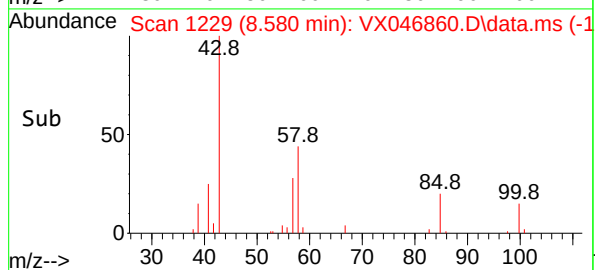
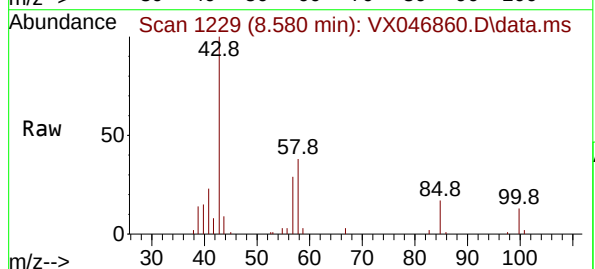
Manual Integrations
APPROVED

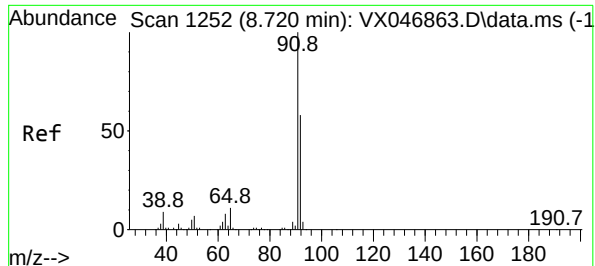
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#51
4-Methyl-2-Pentanone
Concen: 4.684 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

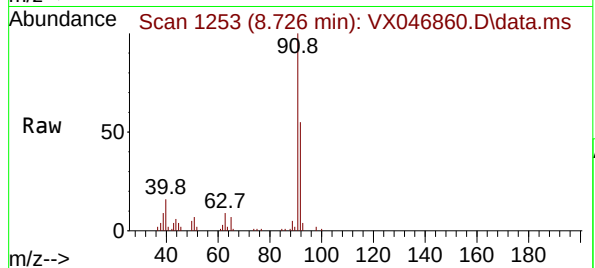
Tgt Ion: 43 Resp: 20561
Ion Ratio Lower Upper
43 100
58 36.0 30.4 45.6





#52
Toluene
Concen: 0.996 ug/l
RT: 8.726 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

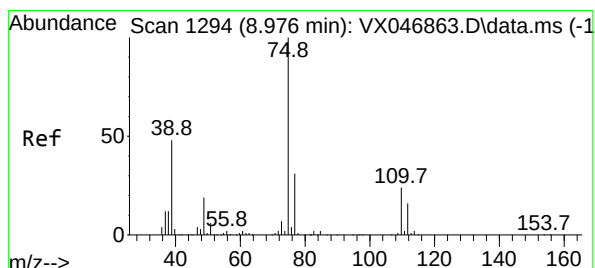
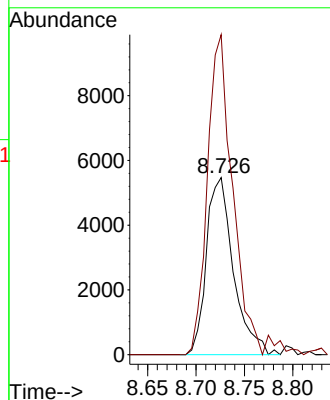
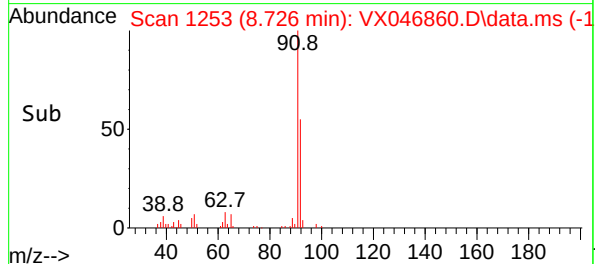
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 92 Resp: 1064
Ion Ratio Lower Upper
92 100
91 167.3 137.9 206.9

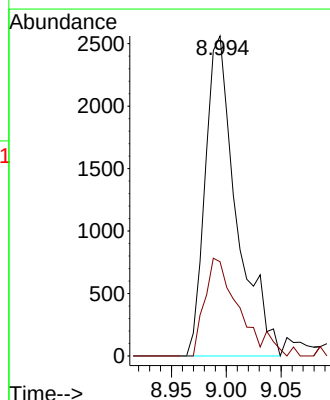
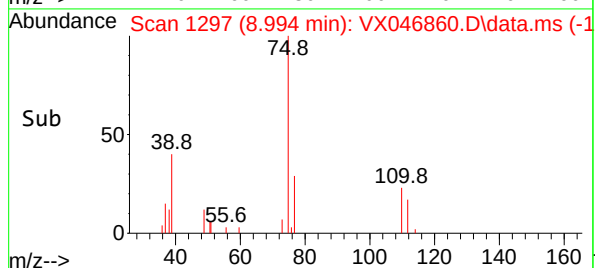
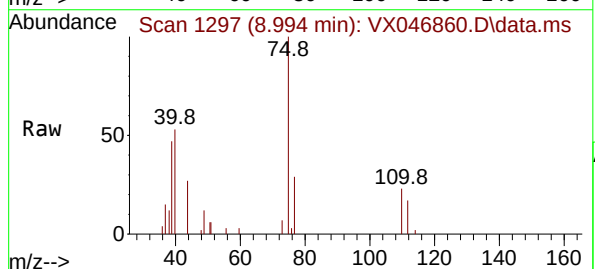
Manual Integrations
APPROVED

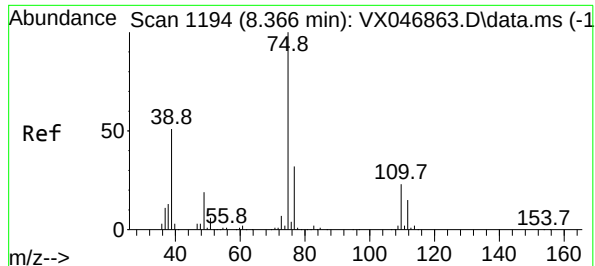
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#53
t-1,3-Dichloropropene
Concen: 0.883 ug/l
RT: 8.994 min Scan# 1297
Delta R.T. 0.018 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Tgt Ion: 75 Resp: 5080
Ion Ratio Lower Upper
75 100
77 29.4 25.0 37.6





#54

cis-1,3-Dichloropropene

Concen: 0.940 ug/l

RT: 8.372 min Scan# 1195

Delta R.T. 0.006 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

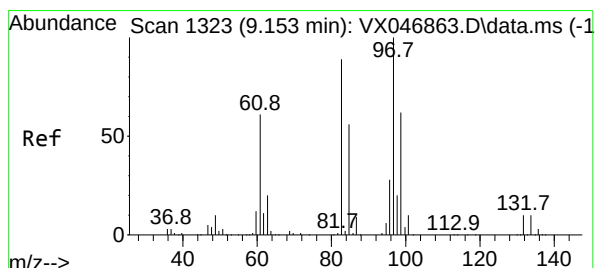
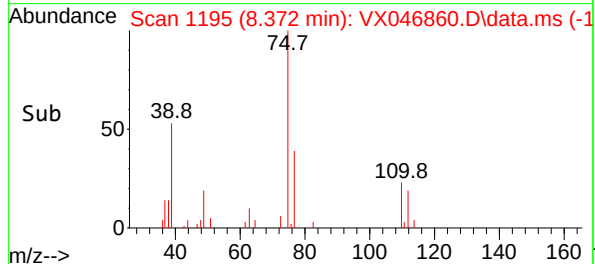
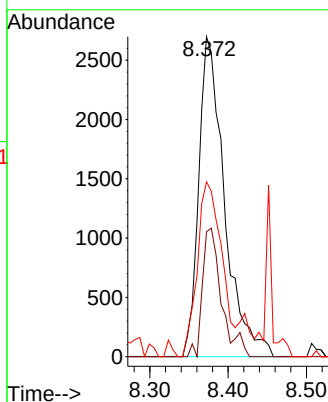
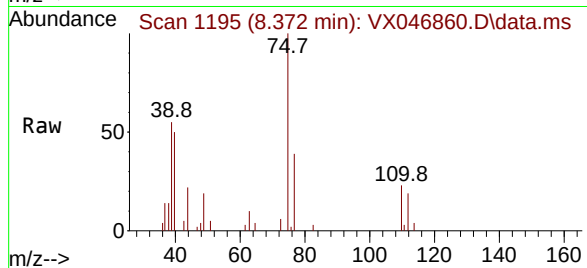
Tgt Ion:	75	Resp:	617
Ion	Ratio	Lower	Upper
75	100		
77	39.1	25.4	38.2
39	104.6	40.7	61.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#55

1,1,2-Trichloroethane

Concen: 1.016 ug/l

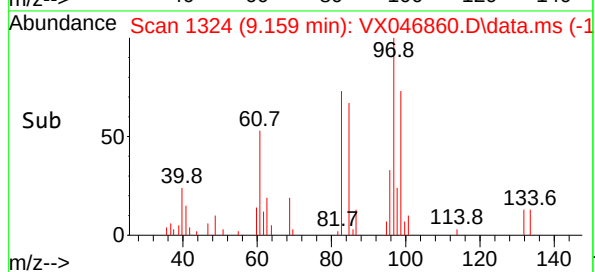
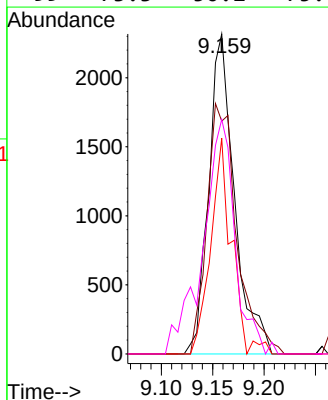
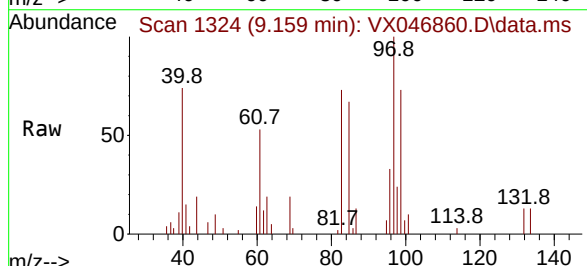
RT: 9.159 min Scan# 1324

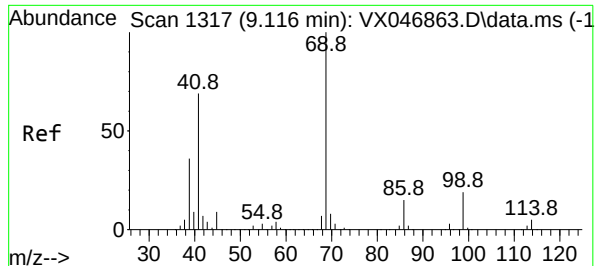
Delta R.T. 0.006 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Tgt Ion:	97	Resp:	4046
Ion	Ratio	Lower	Upper
97	100		
83	72.8	70.9	106.3
85	67.5	44.6	67.0
99	73.3	50.2	75.4





#56

Ethyl methacrylate

Concen: 0.880 ug/l

RT: 9.122 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 69 Resp: 4850

Ion Ratio Lower Upper

69 100

41 73.7 54.6 82.0

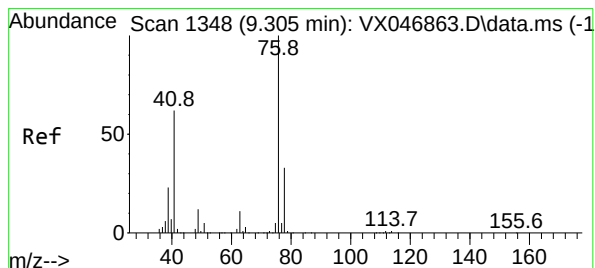
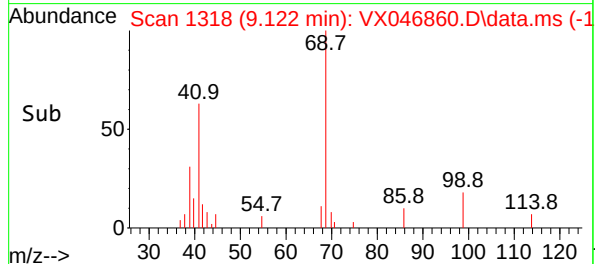
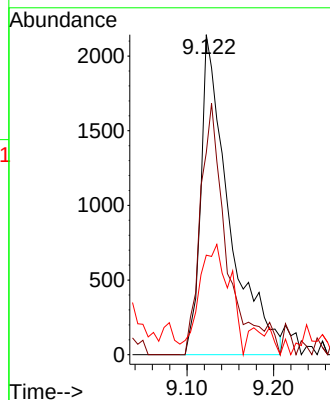
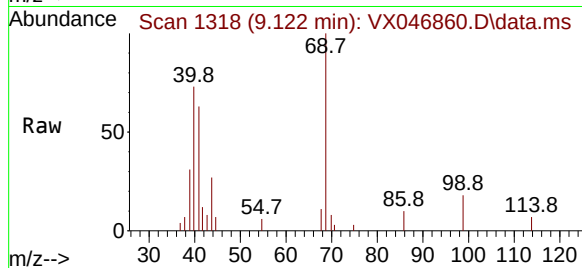
39 37.3 28.7 43.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#57

1,3-Dichloropropane

Concen: 1.030 ug/l

RT: 9.311 min Scan# 1349

Delta R.T. 0.006 min

Lab File: VX046860.D

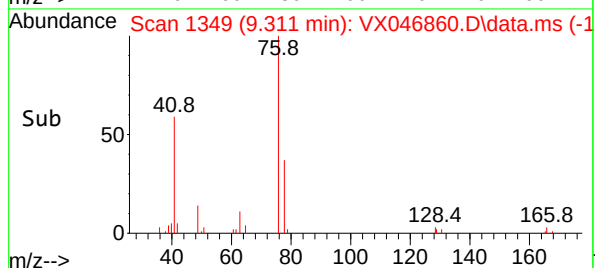
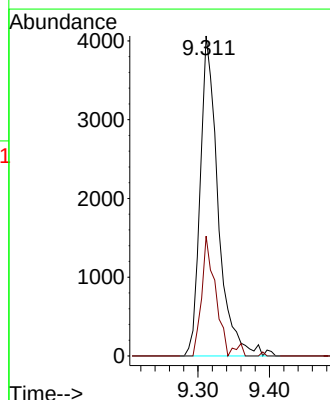
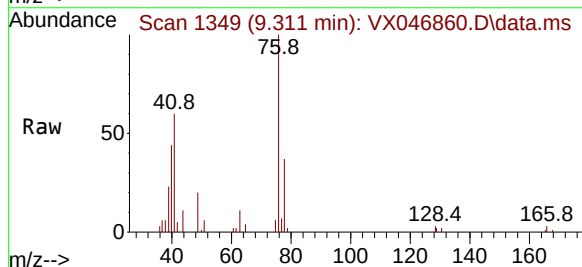
Acq: 02 Jul 2025 12:11

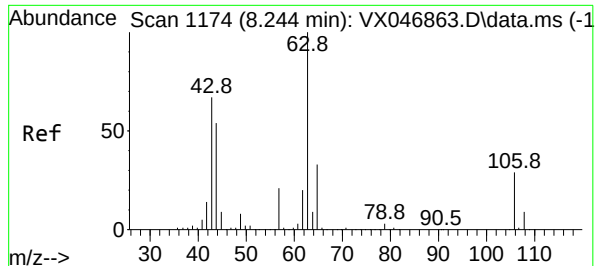
Tgt Ion: 76 Resp: 7057

Ion Ratio Lower Upper

76 100

78 29.3 25.9 38.9





#58

2-Chloroethyl Vinyl ether

Concen: 4.352 ug/l

RT: 8.250 min Scan# 1175

Delta R.T. 0.006 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 63 Resp: 13509

Ion Ratio Lower Upper

63 100

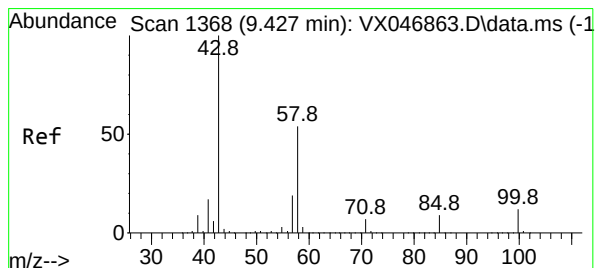
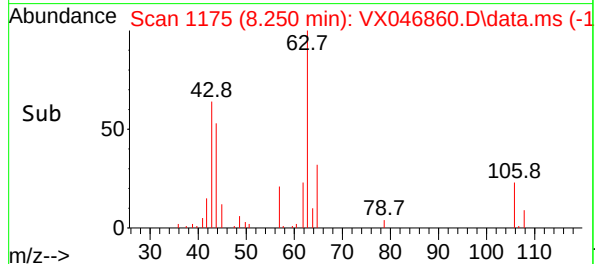
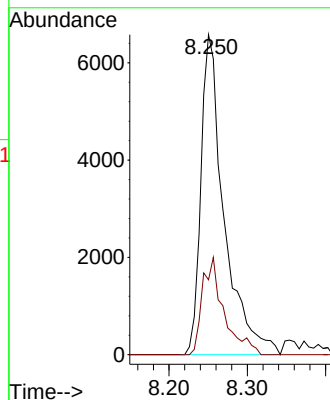
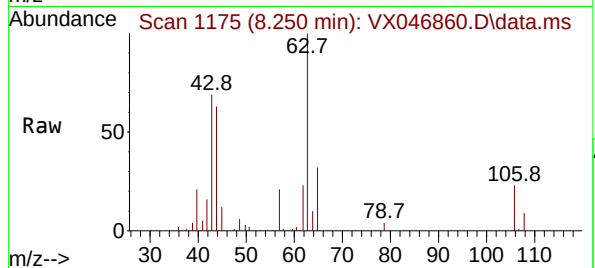
106 28.3 22.6 33.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#59

2-Hexanone

Concen: 4.376 ug/l

RT: 9.439 min Scan# 1370

Delta R.T. 0.012 min

Lab File: VX046860.D

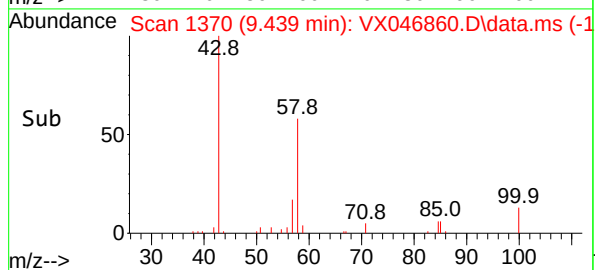
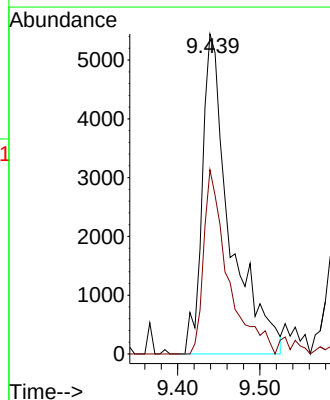
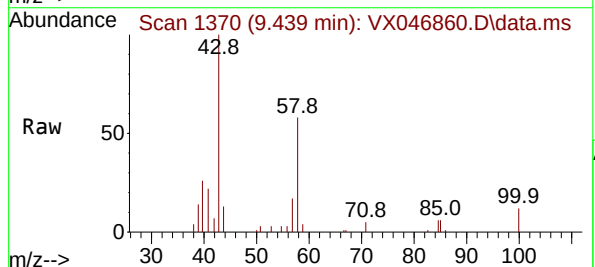
Acq: 02 Jul 2025 12:11

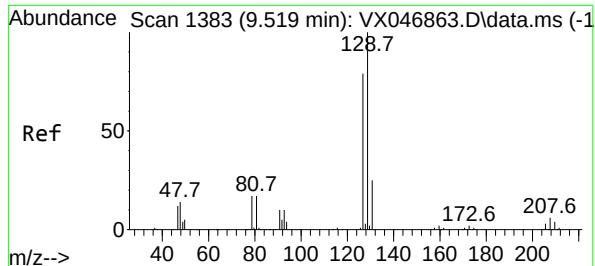
Tgt Ion: 43 Resp: 12742

Ion Ratio Lower Upper

43 100

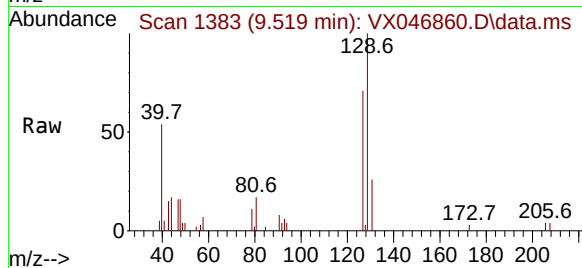
58 50.1 27.1 81.3





#60
Dibromochloromethane
Concen: 1.002 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

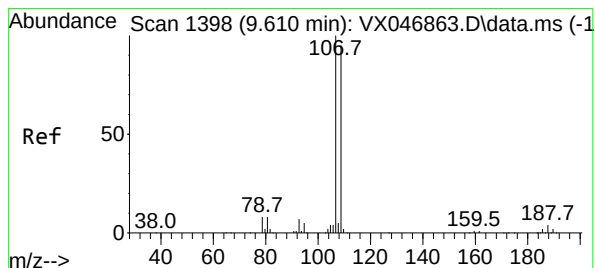
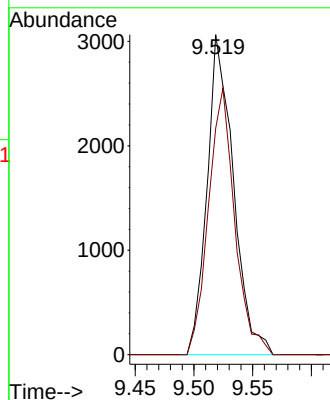
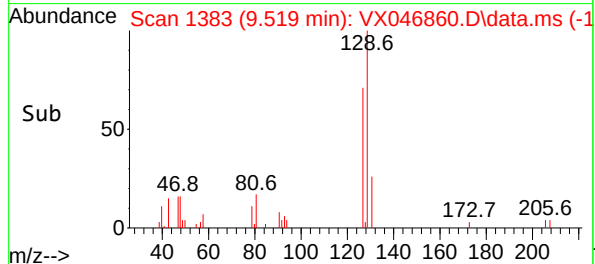
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:129 Resp: 4772
Ion Ratio Lower Upper
129 100
127 83.0 39.1 117.5

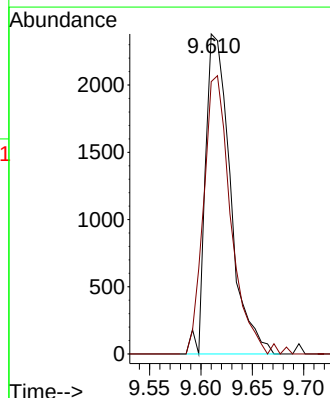
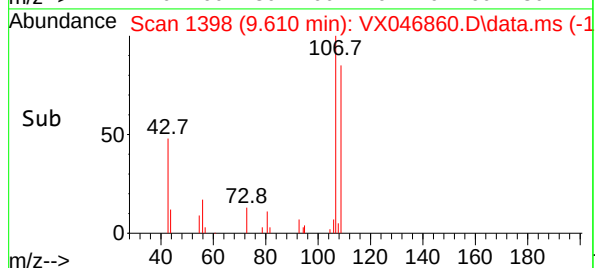
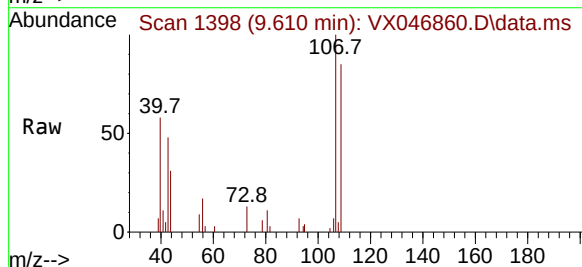
Manual Integrations
APPROVED

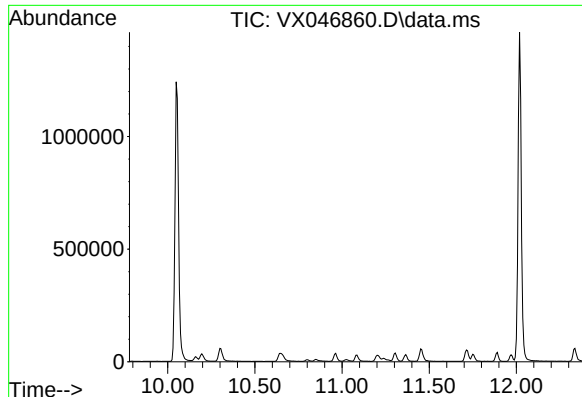
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#61
1,2-Dibromoethane
Concen: 1.007 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. -0.000 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Tgt Ion:107 Resp: 4026
Ion Ratio Lower Upper
107 100
109 94.0 75.4 113.2





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

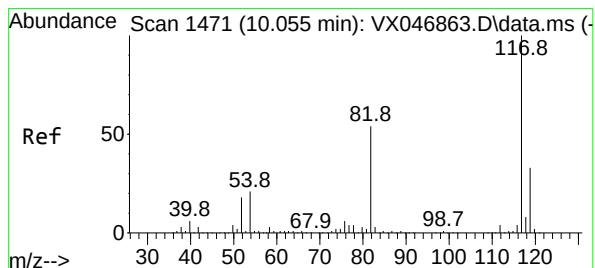
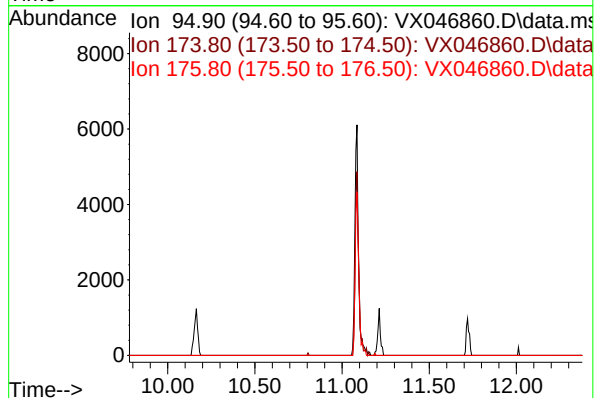
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Tgt Ion: 95
Sig Exp Ratio
95 100
174 76.0
176 72.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

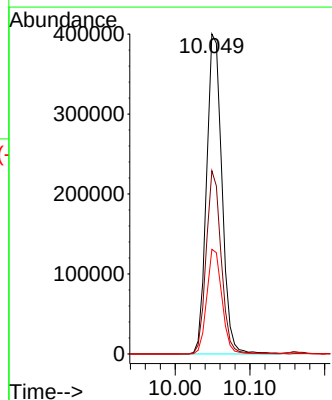
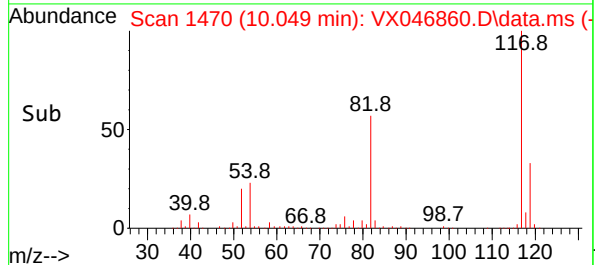
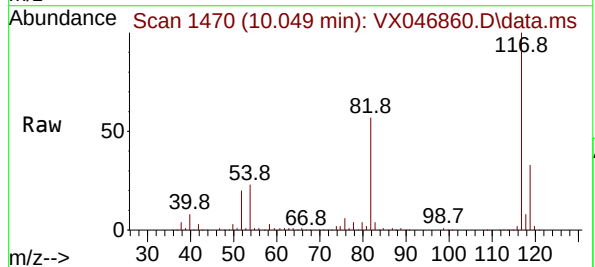
Manual Integrations
APPROVED

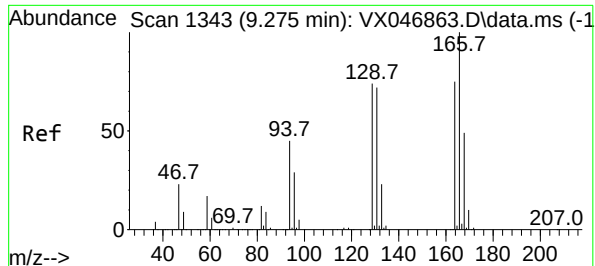
Reviewed By : John Carlone 07/03/2025
Supervised By : Mahesh Dadoda 07/03/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

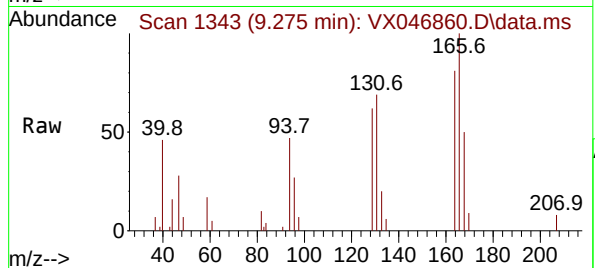
Tgt Ion: 117 Resp: 571866
Ion Ratio Lower Upper
117 100
82 57.3 43.3 64.9
119 32.7 26.4 39.6





#64
Tetrachloroethene
Concen: 1.061 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

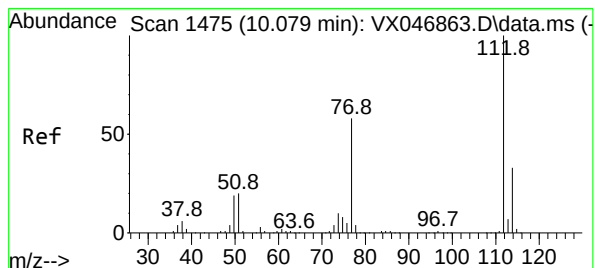
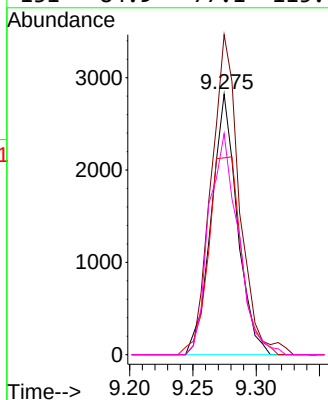
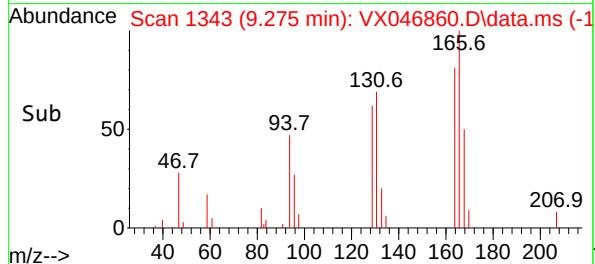
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:164 Resp: 4039
Ion Ratio Lower Upper
164 100
166 122.8 107.0 160.6
129 75.5 79.7 119.5
131 84.9 77.1 115.7

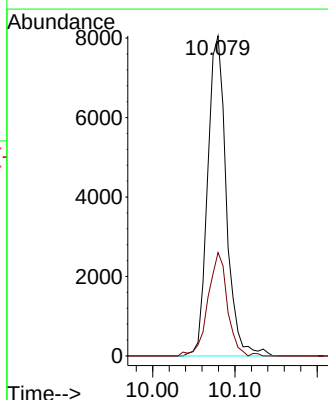
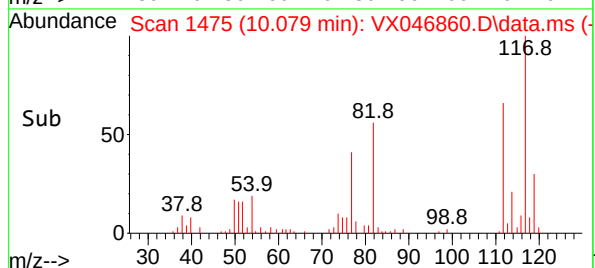
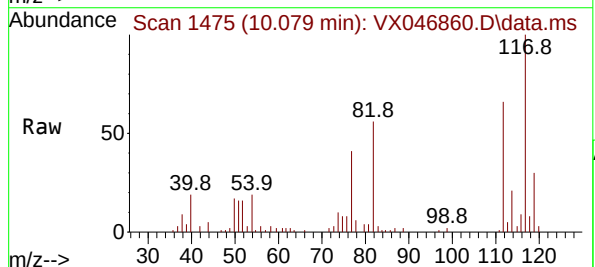
Manual Integrations
APPROVED

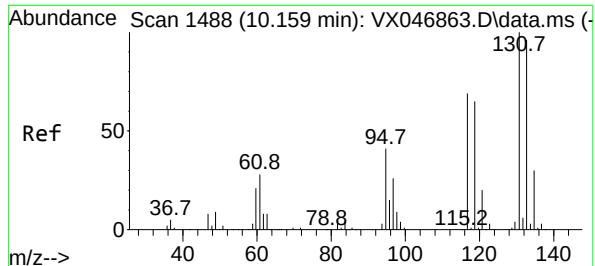
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#65
Chlorobenzene
Concen: 1.028 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Tgt Ion:112 Resp: 12712
Ion Ratio Lower Upper
112 100
114 32.3 26.3 39.5





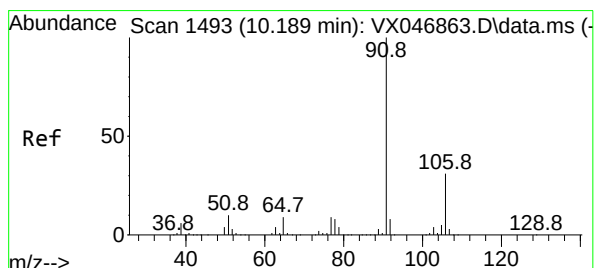
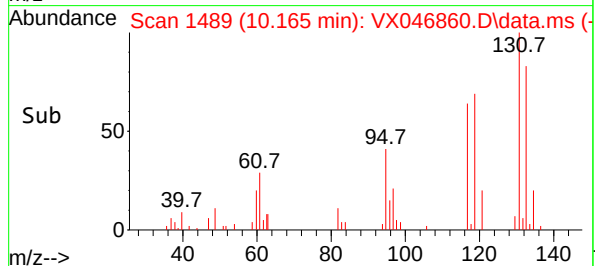
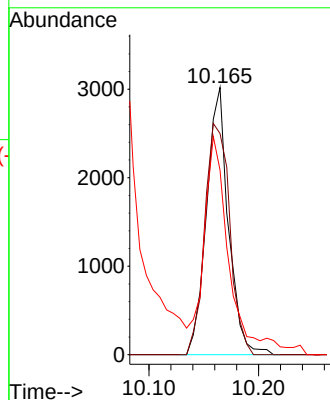
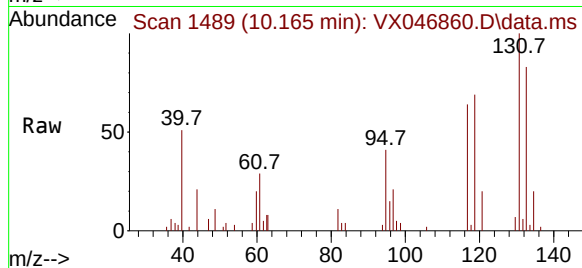
#66
1,1,1,2-Tetrachloroethane
Concen: 1.008 ug/l
RT: 10.165 min Scan# 1488
Delta R.T. 0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:131 Resp: 4188
Ion Ratio Lower Upper
131 100
133 98.5 47.6 142.9
119 0.0 32.4 97.2

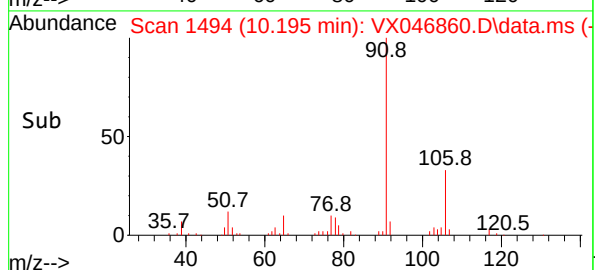
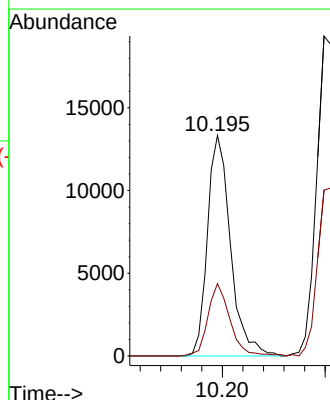
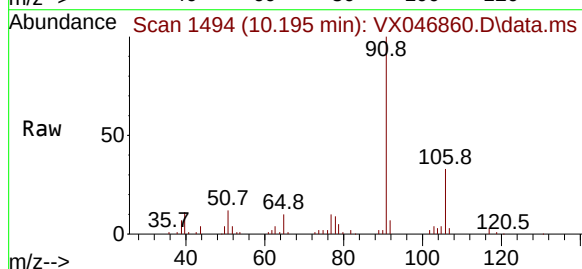
Manual Integrations
APPROVED

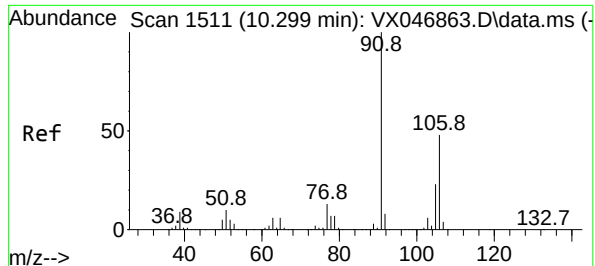
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#67
Ethyl Benzene
Concen: 0.978 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Tgt Ion: 91 Resp: 20707
Ion Ratio Lower Upper
91 100
106 32.8 24.4 36.6





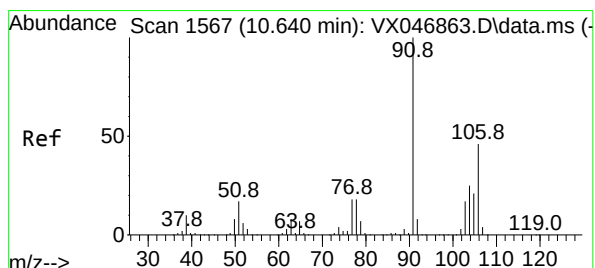
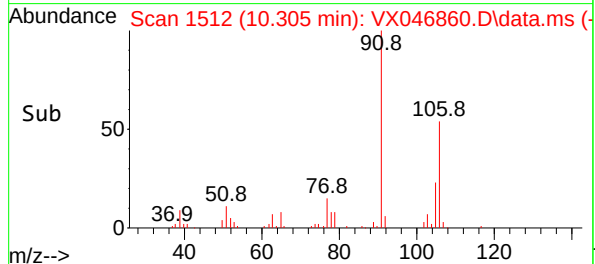
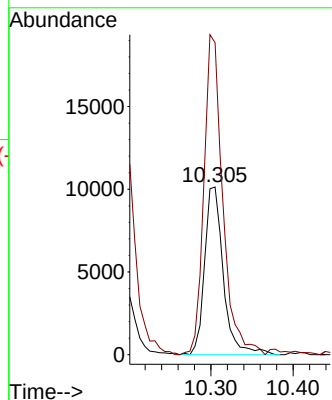
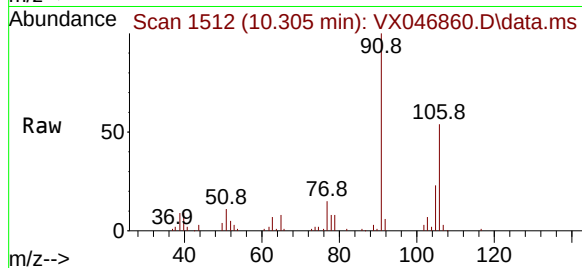
#68
m/p-Xylenes
Concen: 2.011 ug/l
RT: 10.305 min Scan# 1511
Delta R.T. 0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:106 Resp: 1604
Ion Ratio Lower Upper
106 100
91 191.7 164.6 246.8

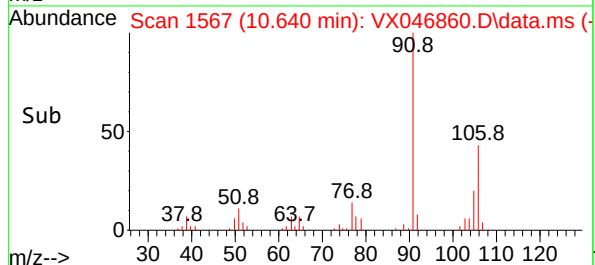
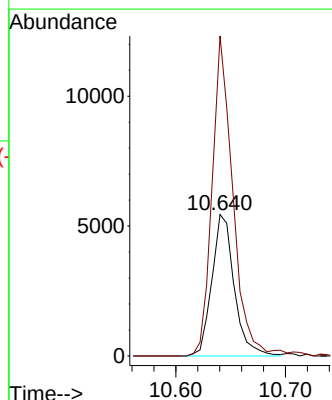
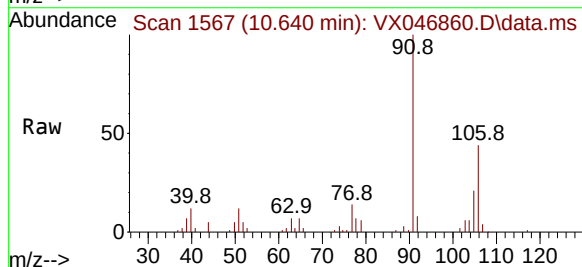
Manual Integrations
APPROVED

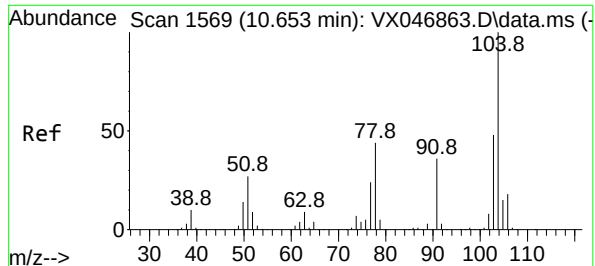
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#69
o-Xylene
Concen: 1.002 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

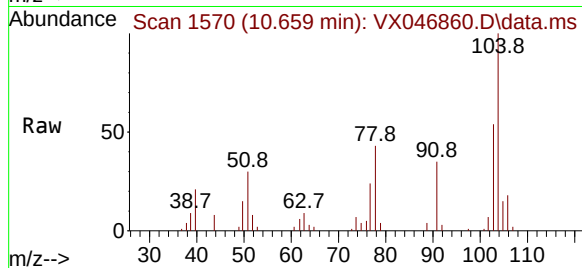
Tgt Ion:106 Resp: 7726
Ion Ratio Lower Upper
106 100
91 211.0 109.5 328.5





#70
Styrene
Concen: 0.928 ug/l
RT: 10.659 min Scan# 1569
Delta R.T. 0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

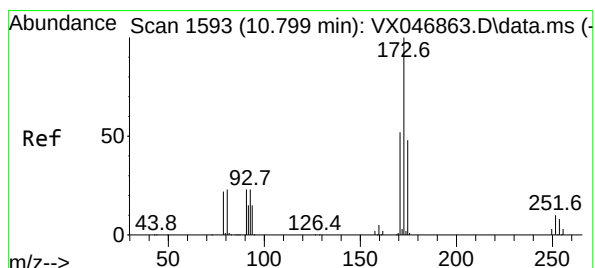
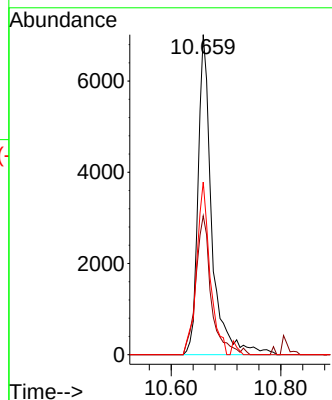
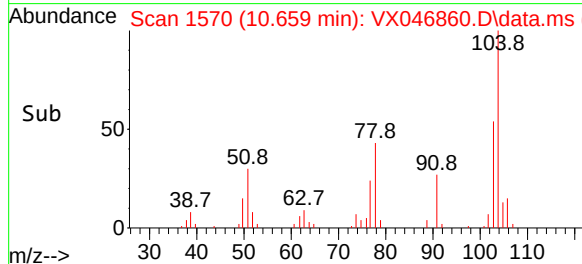
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion:104 Resp: 12230
Ion Ratio Lower Upper
104 100
78 48.4 40.3 60.5
103 52.5 42.8 64.2

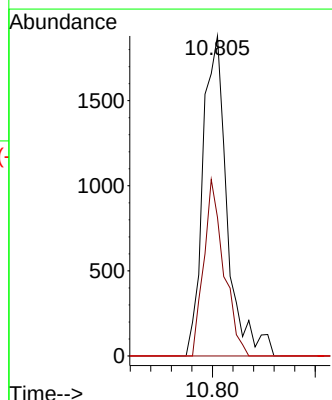
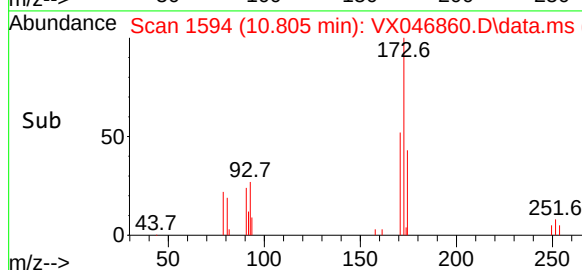
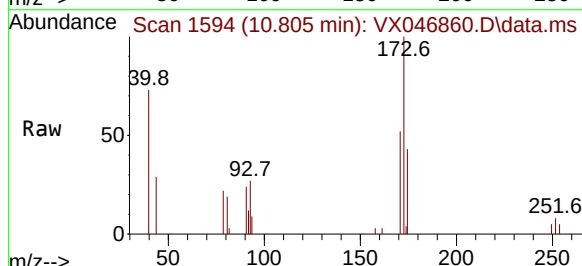
Manual Integrations
APPROVED

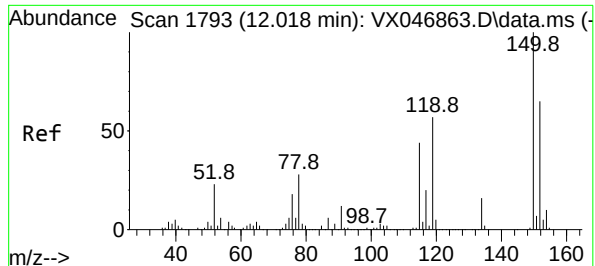
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#71
Bromoform
Concen: 0.994 ug/l
RT: 10.805 min Scan# 1594
Delta R.T. 0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Tgt Ion:173 Resp: 3071
Ion Ratio Lower Upper
173 100
175 45.7 23.8 71.5
254 0.0 0.1 0.1#





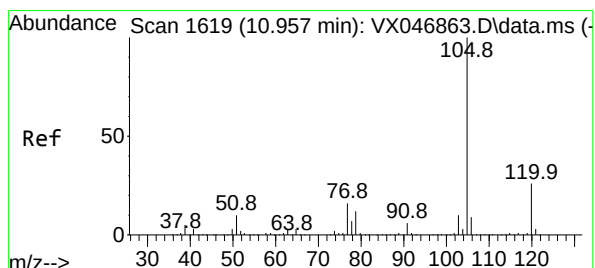
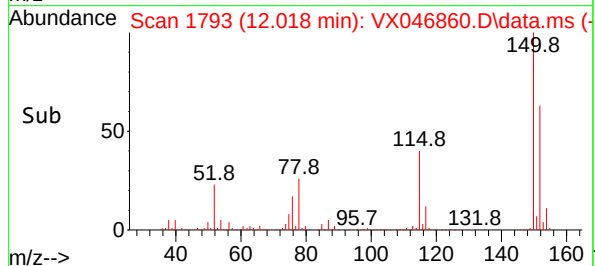
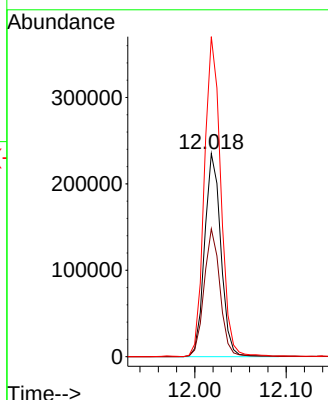
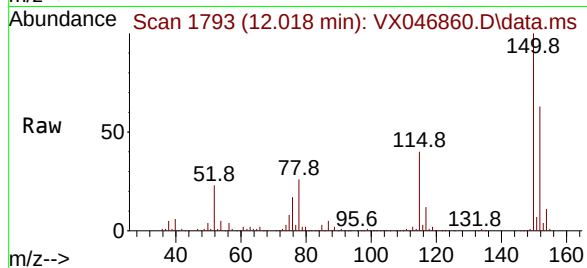
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:152 Resp: 29057
Ion Ratio Lower Upper
152 100
115 62.0 42.4 127.1
150 159.2 0.0 349.2

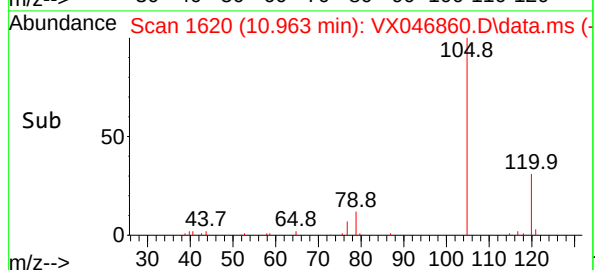
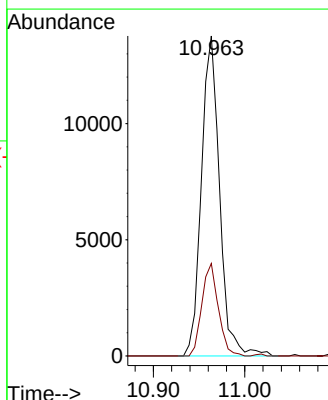
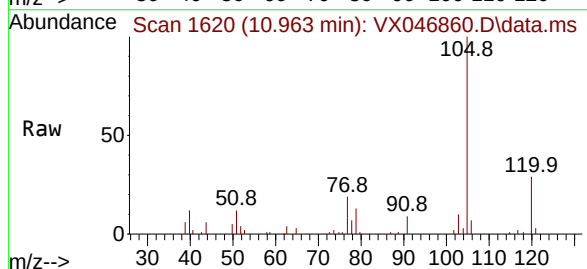
Manual Integrations
APPROVED

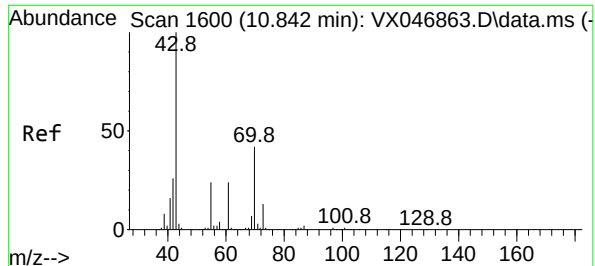
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#73
Isopropylbenzene
Concen: 0.929 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

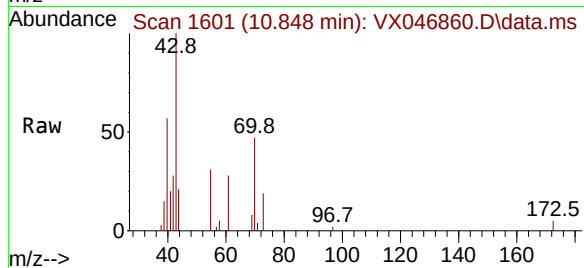
Tgt Ion:105 Resp: 18985
Ion Ratio Lower Upper
105 100
120 26.1 13.2 39.5





#74
N-amy1 acetate
Concen: 0.798 ug/l
RT: 10.848 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

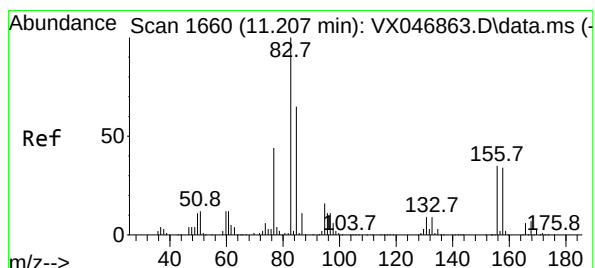
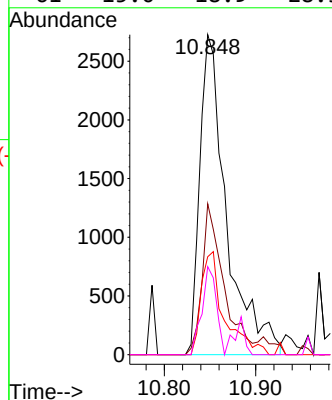
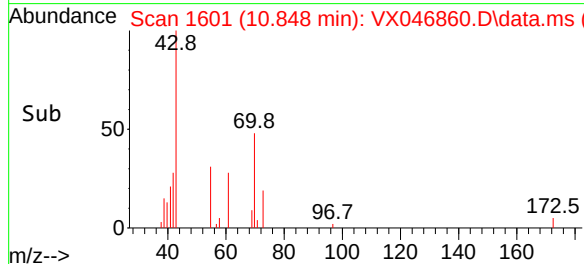
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 43 Resp: 553
Ion Ratio Lower Upper
43 100
70 37.8 33.4 50.2
55 27.5 19.6 29.4
61 15.0 18.9 28.3#

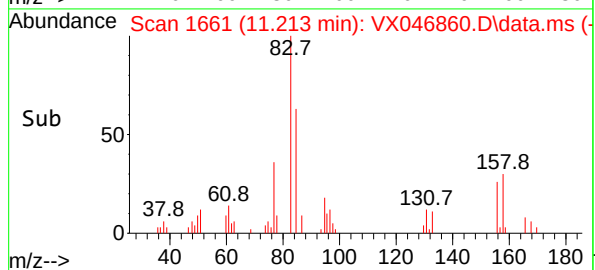
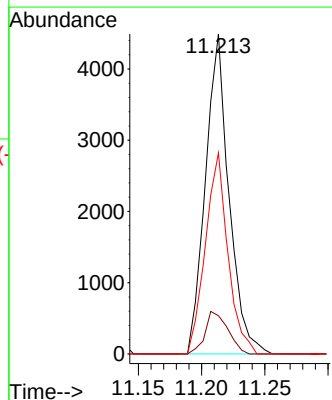
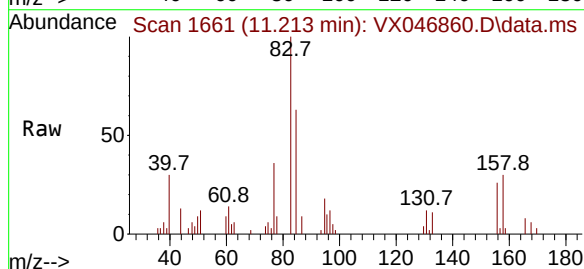
Manual Integrations
APPROVED

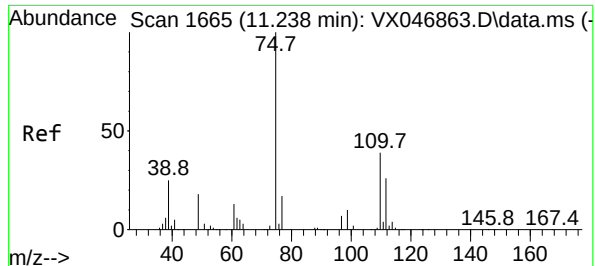
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#75
1,1,2,2-Tetrachloroethane
Concen: 1.034 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Tgt Ion: 83 Resp: 5809
Ion Ratio Lower Upper
83 100
131 12.8 5.0 14.9
85 60.2 32.1 96.5





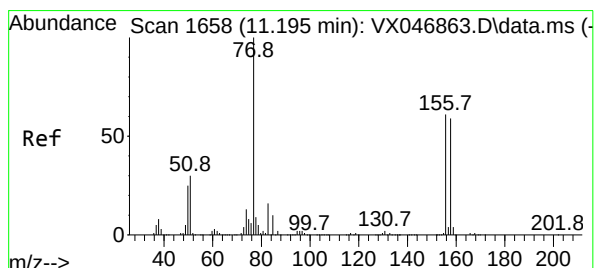
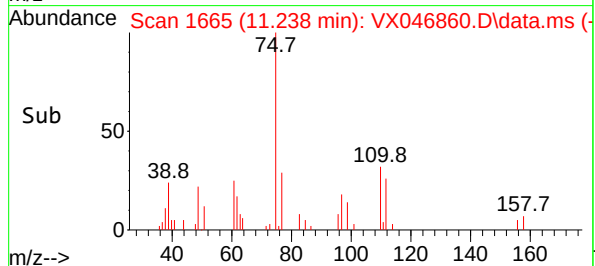
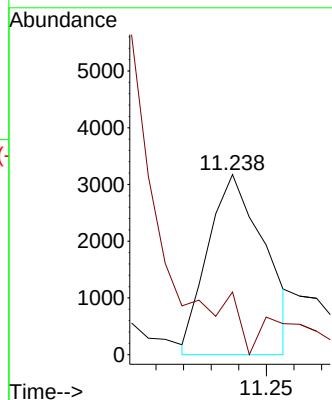
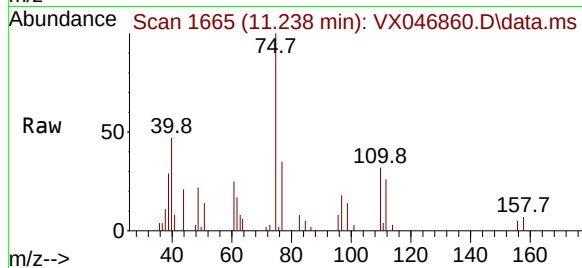
#76
1,2,3-Trichloropropane
Concen: 1.010 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 4530
Ion Ratio Lower Upper
75 100
77 12.2 20.6 61.8

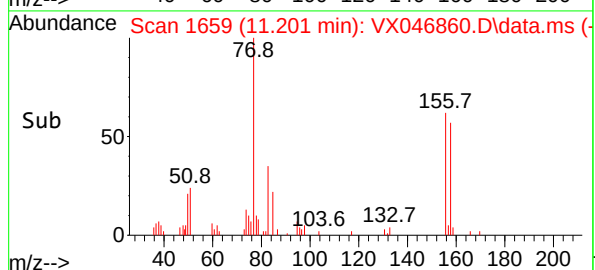
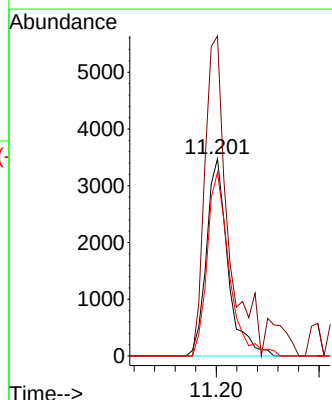
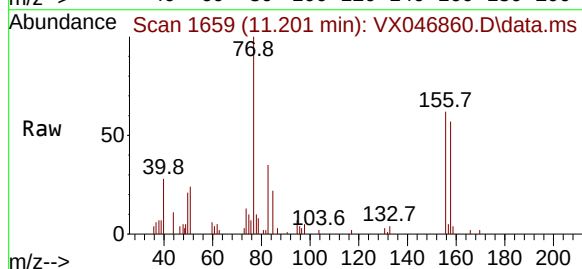
Manual Integrations
APPROVED

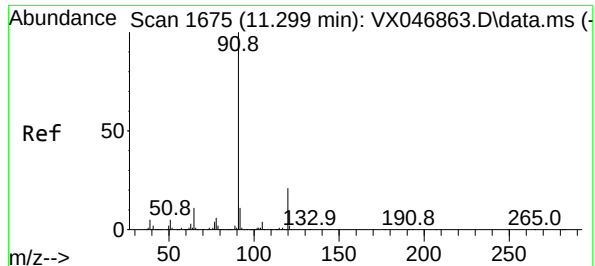
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#77
Bromobenzene
Concen: 0.992 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Tgt Ion:156 Resp: 5045
Ion Ratio Lower Upper
156 100
77 172.5 82.3 247.0
158 95.5 47.5 142.6





#78

n-propylbenzene

Concen: 0.955 ug/l

RT: 11.305 min Scan# 1675

Delta R.T. 0.006 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 2352

Ion Ratio Lower Upper

91 100

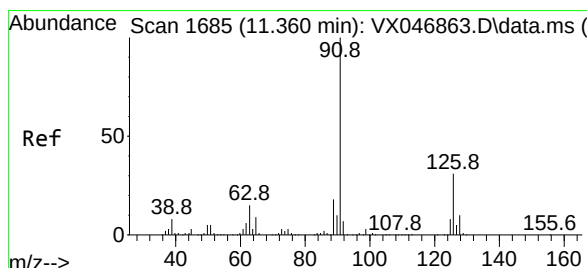
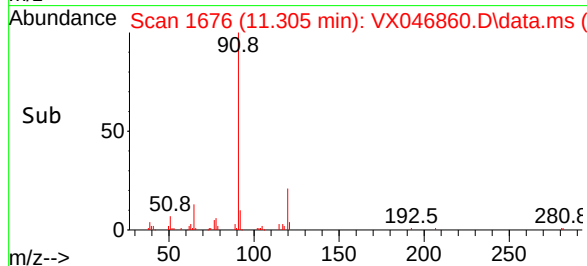
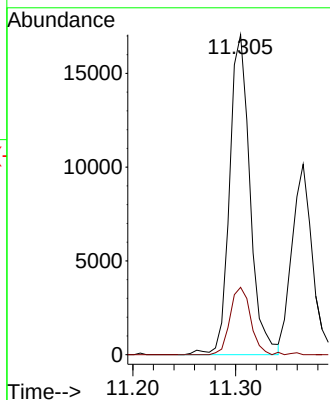
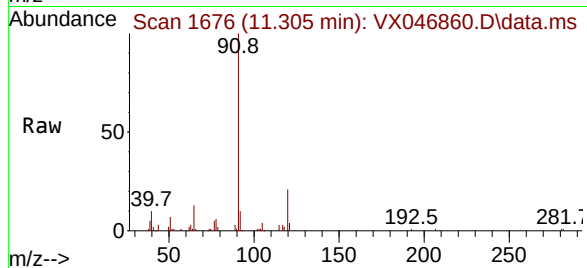
120 21.3 11.2 33.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#79

2-Chlorotoluene

Concen: 0.975 ug/l

RT: 11.366 min Scan# 1686

Delta R.T. 0.006 min

Lab File: VX046860.D

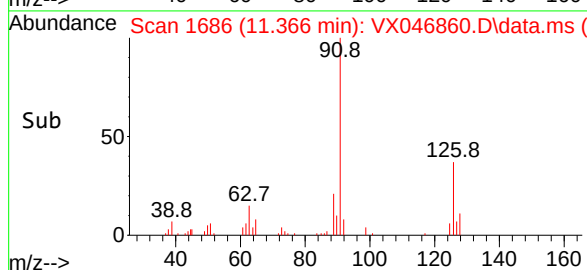
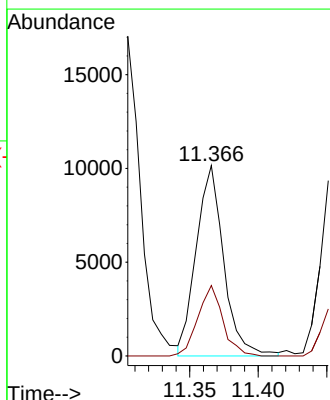
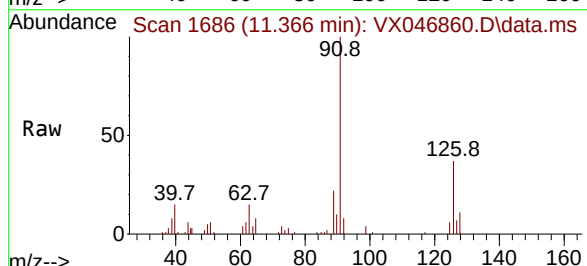
Acq: 02 Jul 2025 12:11

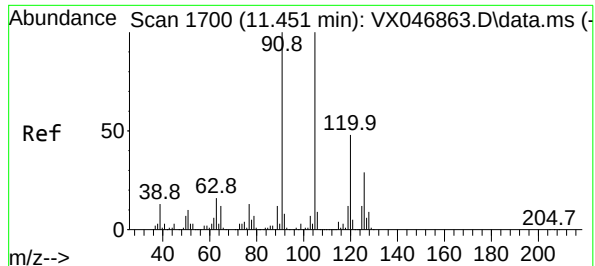
Tgt Ion: 91 Resp: 14185

Ion Ratio Lower Upper

91 100

126 33.5 16.6 49.8





#80

1,3,5-Trimethylbenzene

Concen: 0.901 ug/l

RT: 11.451 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:105 Resp: 14958

Ion Ratio Lower Upper

105 100

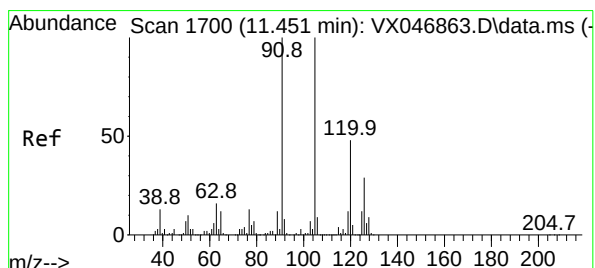
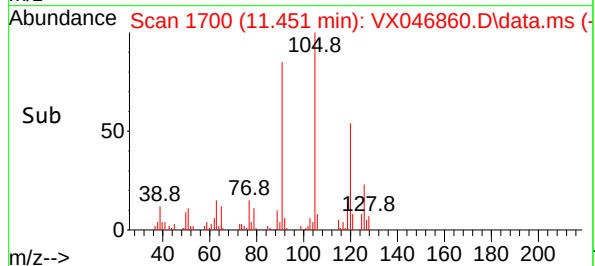
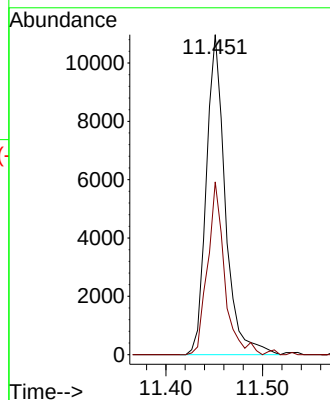
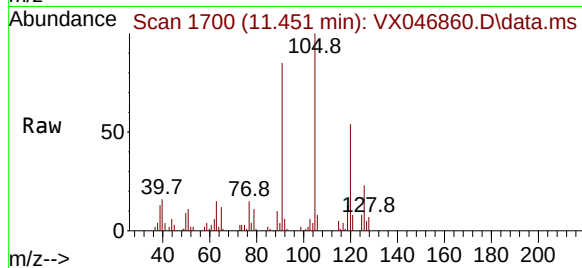
120 48.4 24.1 72.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#82

4-Chlorotoluene

Concen: 0.954 ug/l

RT: 11.457 min Scan# 1701

Delta R.T. 0.006 min

Lab File: VX046860.D

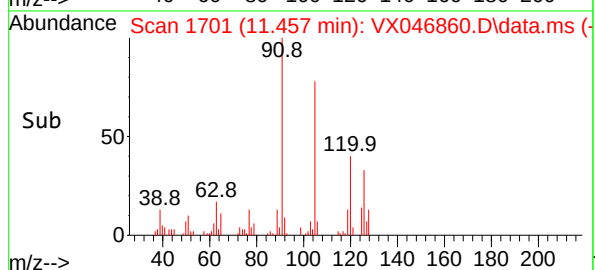
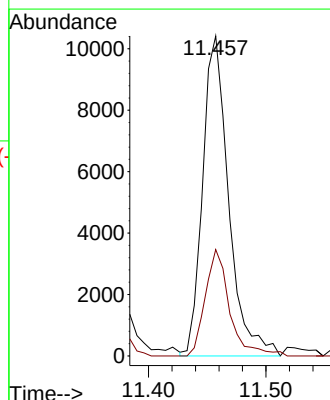
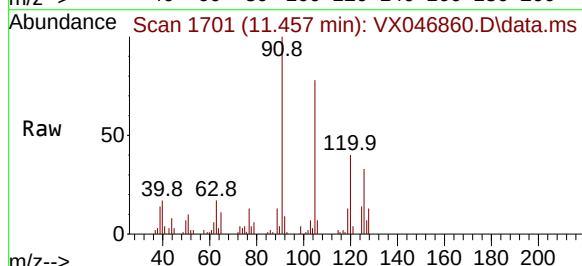
Acq: 02 Jul 2025 12:11

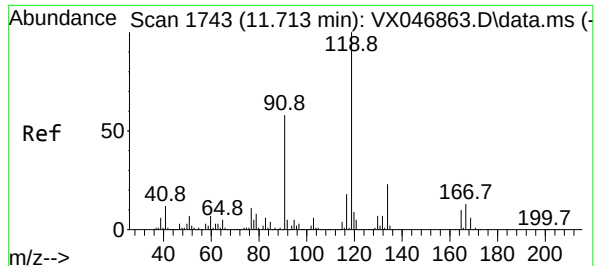
Tgt Ion: 91 Resp: 16012

Ion Ratio Lower Upper

91 100

126 31.2 14.6 44.0





#83

tert-Butylbenzene

Concen: 0.927 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

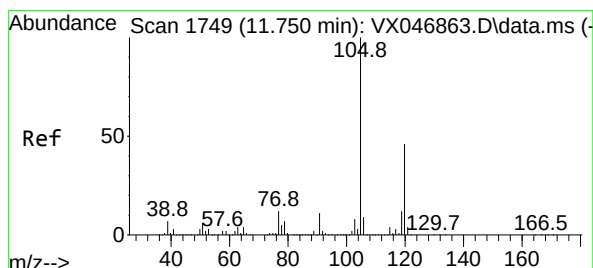
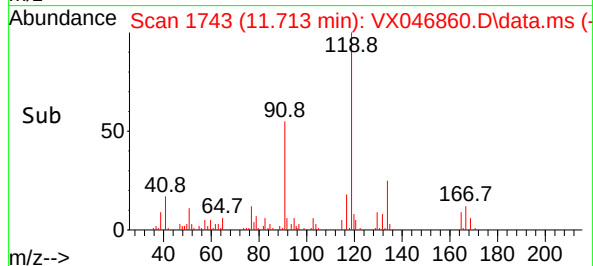
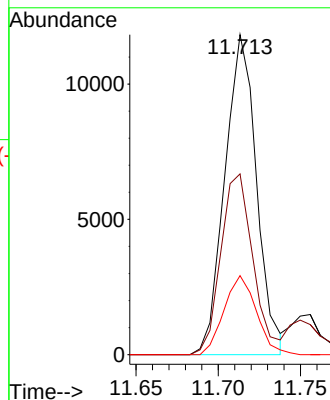
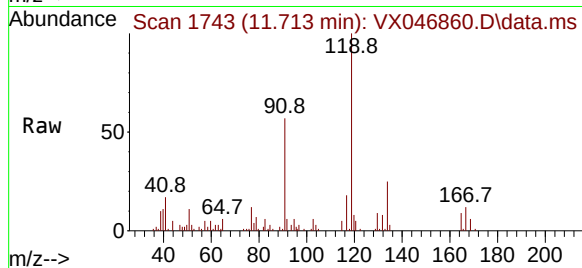
VSTDIC001

Tgt Ion:	119	Resp:	1588
Ion	Ratio	Lower	Upper
119	100		
91	57.5	28.7	86.3
134	25.2	11.4	34.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#84

1,2,4-Trimethylbenzene

Concen: 0.906 ug/l

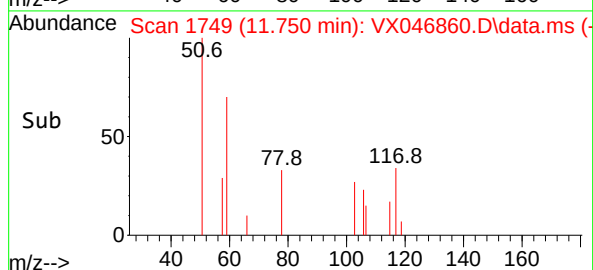
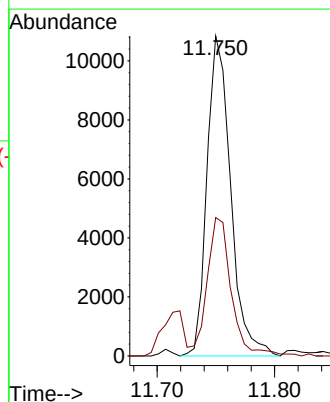
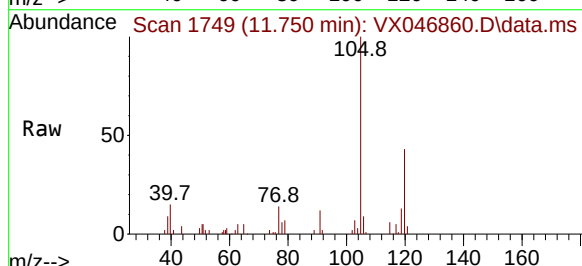
RT: 11.750 min Scan# 1749

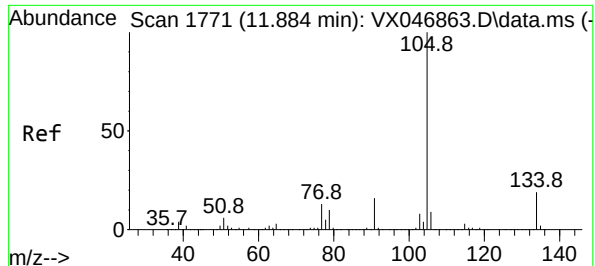
Delta R.T. -0.000 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Tgt Ion:	105	Resp:	15197
Ion	Ratio	Lower	Upper
105	100		
120	44.1	23.3	69.8





#85

sec-Butylbenzene

Concen: 0.934 ug/l

RT: 11.890 min Scan# 1771

Delta R.T. 0.006 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 2019

Ion Ratio Lower Upper

105 100

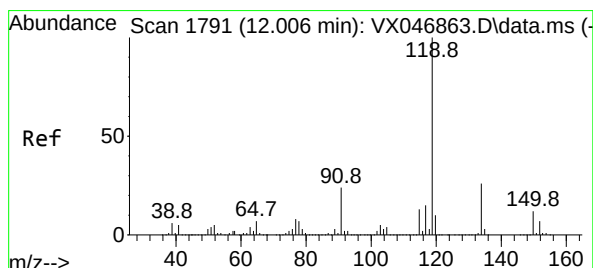
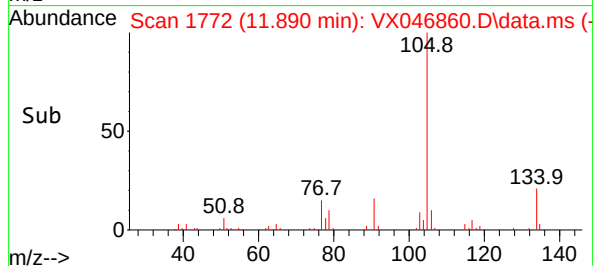
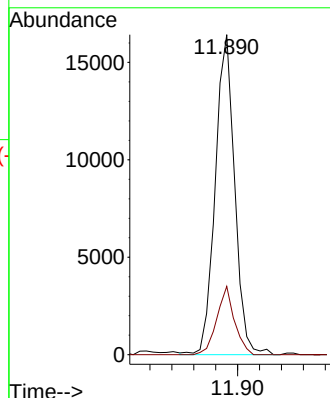
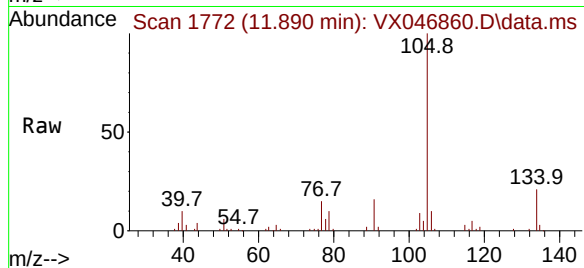
134 19.4 9.9 29.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#86

p-Isopropyltoluene

Concen: 0.946 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

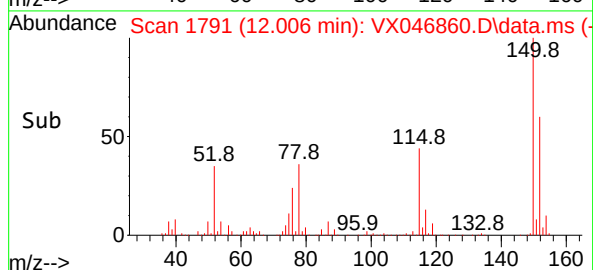
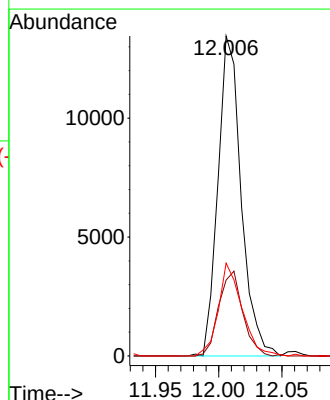
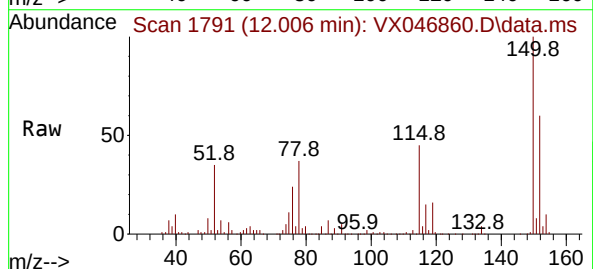
Tgt Ion:119 Resp: 17131

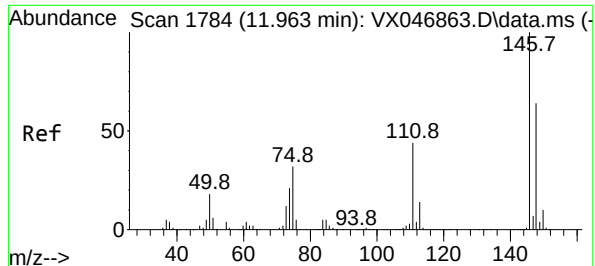
Ion Ratio Lower Upper

119 100

134 27.5 13.0 39.0

91 29.4 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 0.987 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.006 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:146 Resp: 938

Ion Ratio Lower Upper

146 100

111 42.9 20.5 61.6

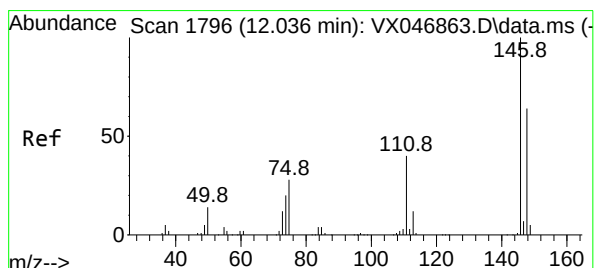
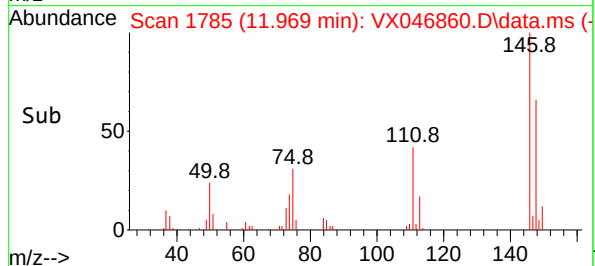
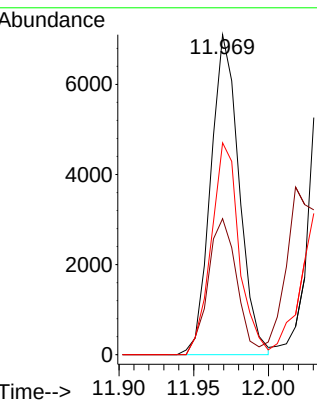
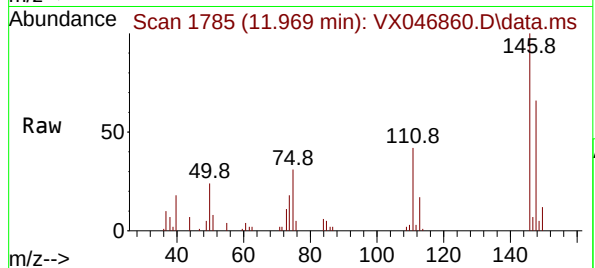
148 65.2 31.4 94.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#88

1,4-Dichlorobenzene

Concen: 1.087 ug/l m

RT: 12.036 min Scan# 1796

Delta R.T. -0.000 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

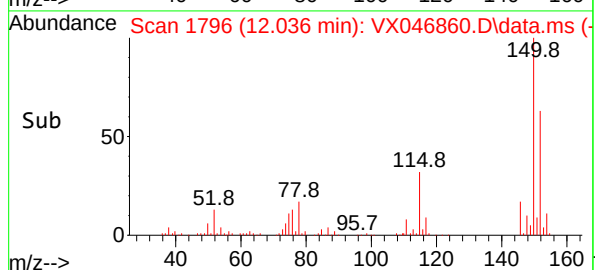
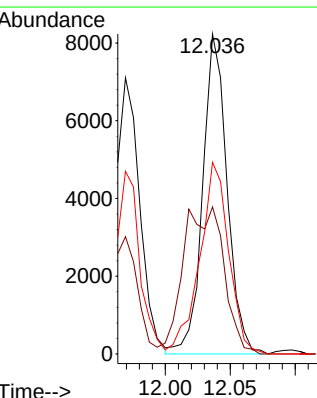
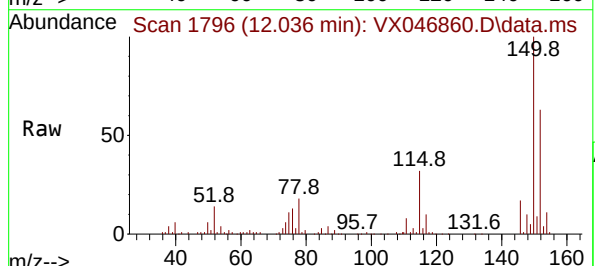
Tgt Ion:146 Resp: 10764

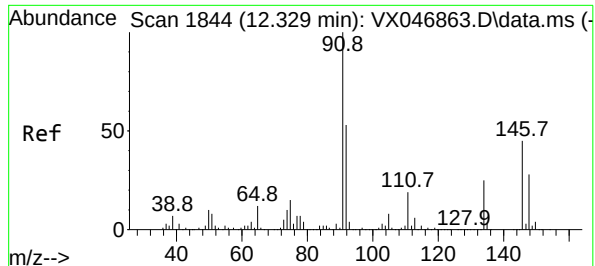
Ion Ratio Lower Upper

146 100

111 37.4 20.2 60.5

148 56.9 32.4 97.0





#89

n-Butylbenzene

Concen: 0.939 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

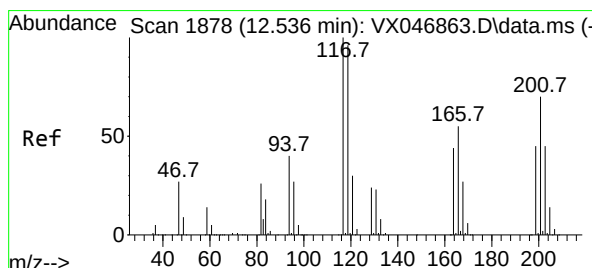
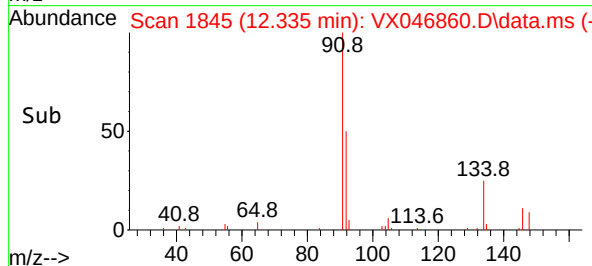
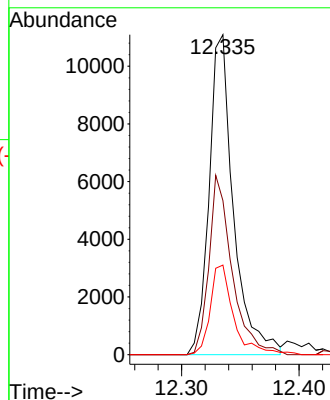
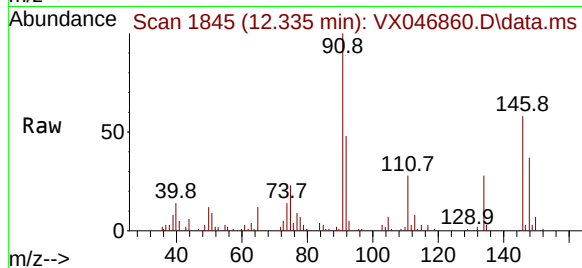
VSTDICC001

Tgt Ion:	91	Resp:	1596
Ion	Ratio	Lower	Upper
91	100		
92	53.4	27.0	81.0
134	27.0	12.8	38.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#90

Hexachloroethane

Concen: 0.960 ug/l

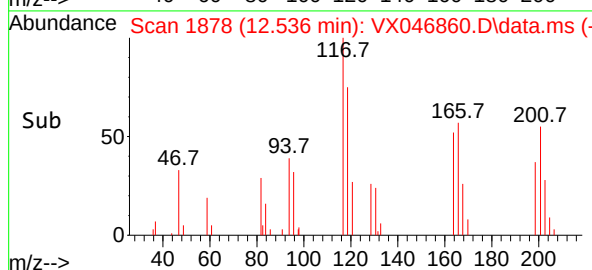
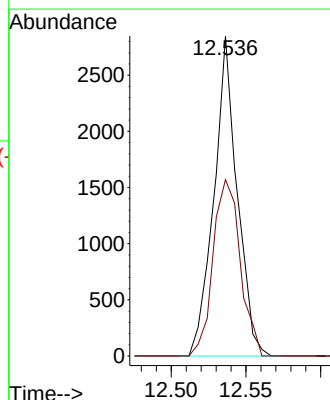
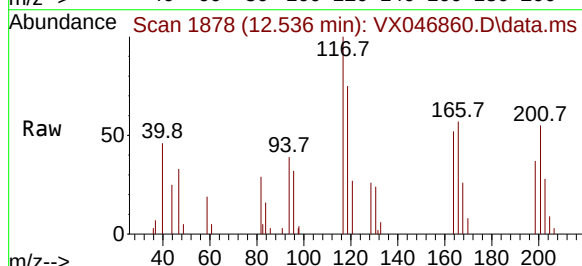
RT: 12.536 min Scan# 1878

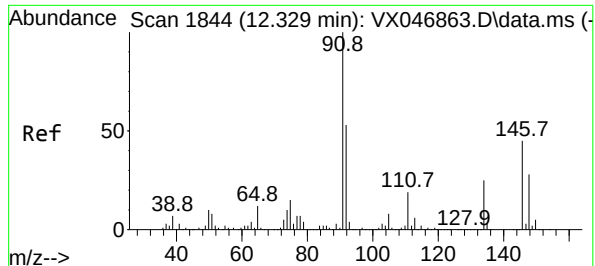
Delta R.T. -0.000 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

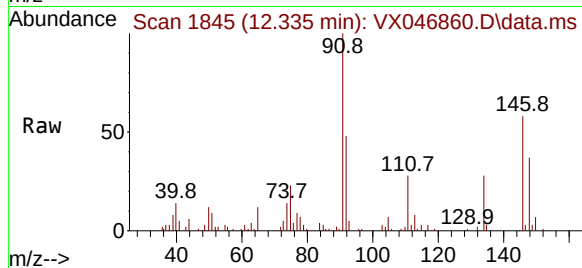
Tgt Ion:	117	Resp:	3079
Ion	Ratio	Lower	Upper
117	100		
201	64.3	35.8	107.4





#91
1,2-Dichlorobenzene
Concen: 1.025 ug/l
RT: 12.335 min Scan# 1844
Delta R.T. 0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

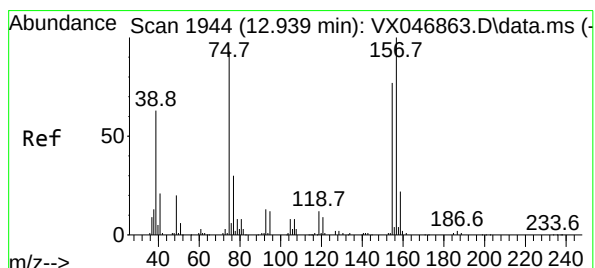
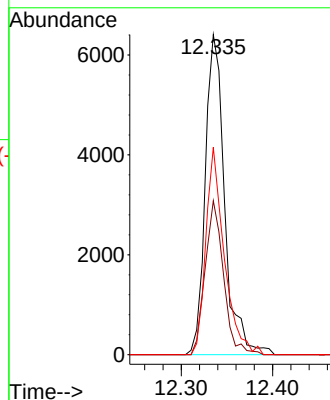
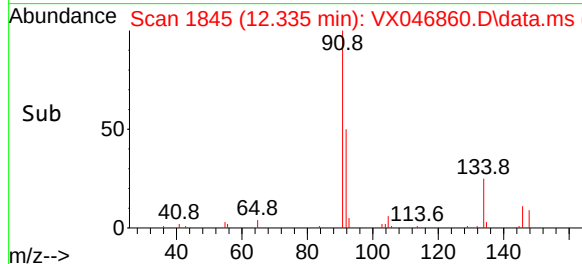
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:146 Resp: 944
Ion Ratio Lower Upper
146 100
111 45.7 21.1 63.1
148 61.8 31.6 95.0

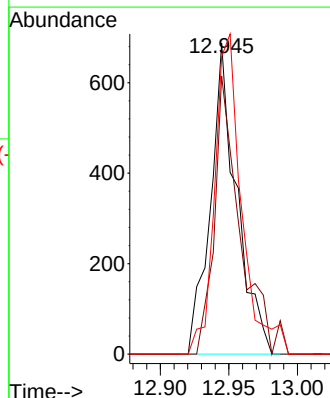
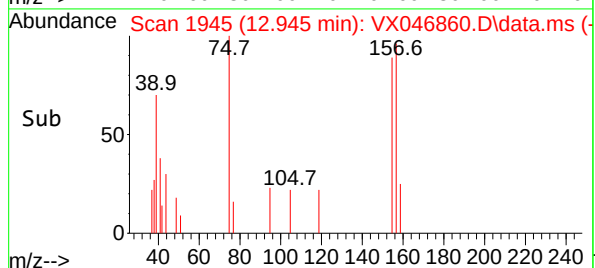
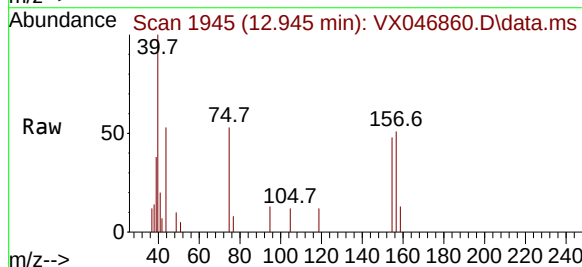
Manual Integrations
APPROVED

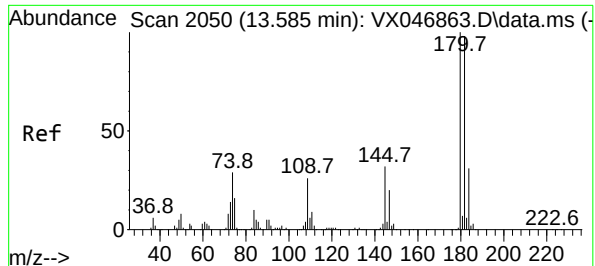
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.937 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX046860.D
Acq: 02 Jul 2025 12:11

Tgt Ion: 75 Resp: 920
Ion Ratio Lower Upper
75 100
155 87.3 43.1 129.4
157 105.3 56.5 169.5





#93

1,2,4-Trichlorobenzene

Concen: 0.942 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

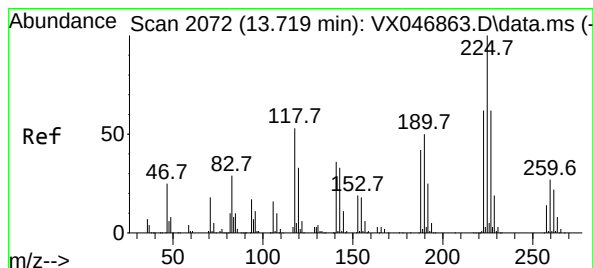
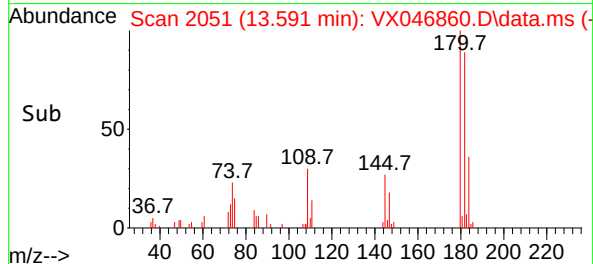
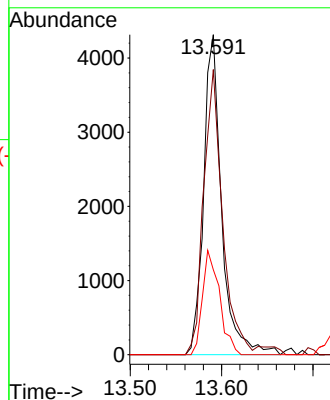
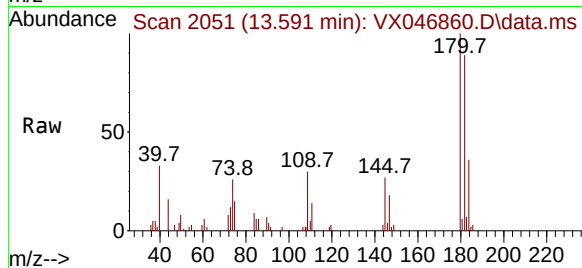
VSTDIC001

Tgt Ion:	180	Resp:	5904
Ion Ratio	Lower	Upper	
180	100		
182	93.1	47.3	141.9
145	30.9	16.1	48.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#94

Hexachlorobutadiene

Concen: 0.966 ug/l

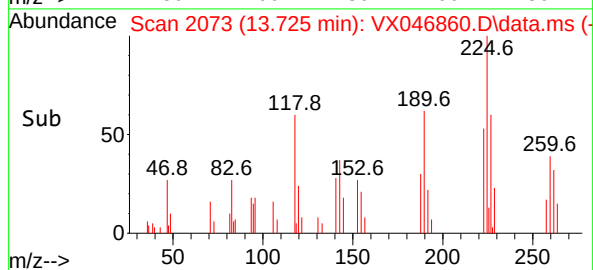
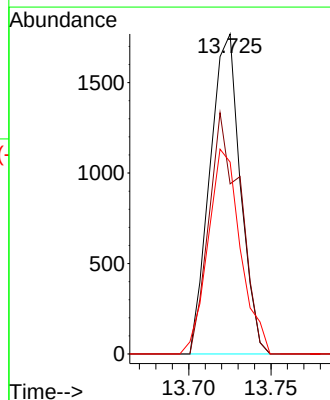
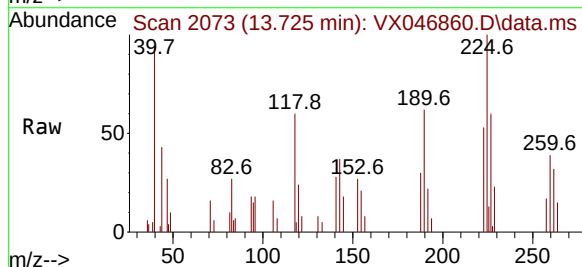
RT: 13.725 min Scan# 2073

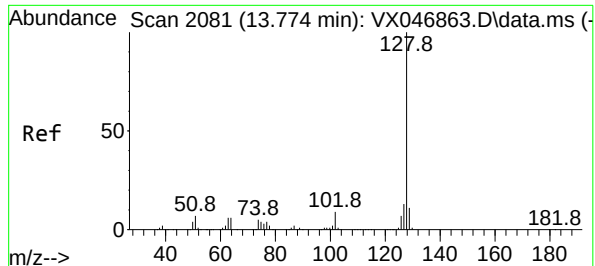
Delta R.T. 0.006 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Tgt Ion:	225	Resp:	2281
Ion Ratio	Lower	Upper	
225	100		
223	77.4	31.6	94.7
227	68.4	31.6	94.7





#95

Naphthalene

Concen: 0.778 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

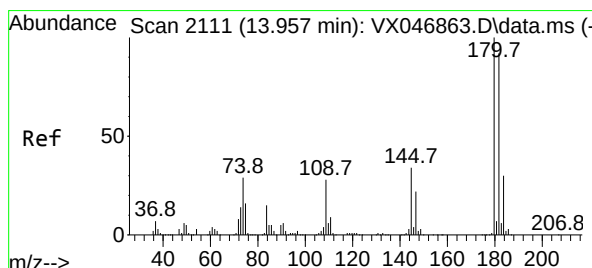
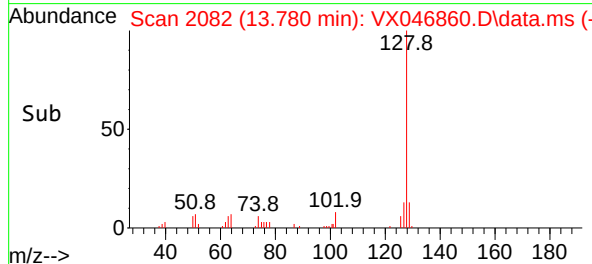
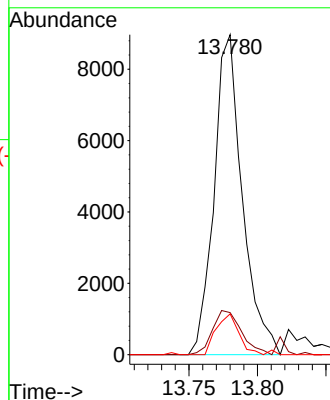
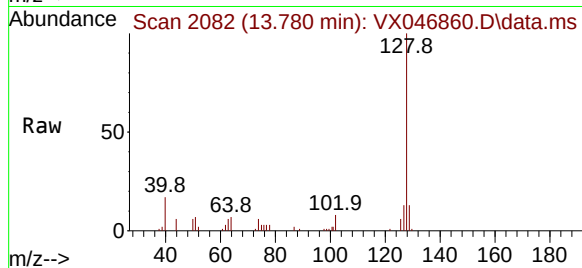
VSTDICC001

Tgt Ion:	128	Resp:	1284
Ion Ratio	Lower	Upper	
128	100		
127	14.1	10.2	15.4
129	10.2	8.6	13.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#96

1,2,3-Trichlorobenzene

Concen: 0.884 ug/l

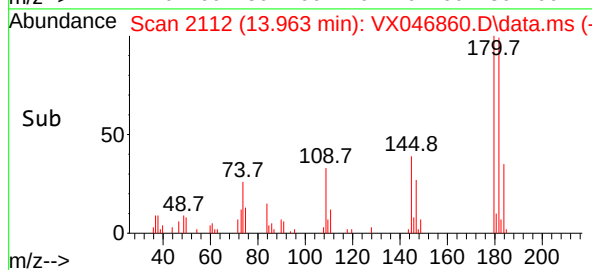
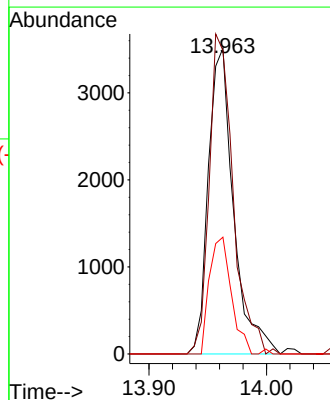
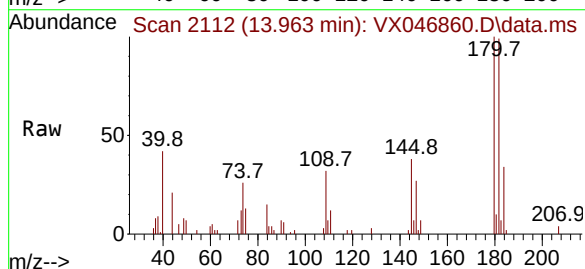
RT: 13.963 min Scan# 2112

Delta R.T. 0.006 min

Lab File: VX046860.D

Acq: 02 Jul 2025 12:11

Tgt Ion:	180	Resp:	5231
Ion Ratio	Lower	Upper	
180	100		
182	99.6	46.7	140.1
145	33.2	16.8	50.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046861.D
 Acq On : 02 Jul 2025 12:37
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Quant Time: Jul 03 05:30:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.556	168	396691	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	652365	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	592225	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	309407	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	28658	5.468	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	10.940%#		
35) Dibromofluoromethane	5.397	113	23179	5.234	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.460%#		
50) Toluene-d8	8.647	98	83349	5.335	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	10.660%#		
62) 4-Bromofluorobenzene	11.079	95	32156	5.415	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	10.840%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.178	85	17184	4.530	ug/l	99
3) Chloromethane	1.306	50	20130	4.857	ug/l	95
4) Vinyl Chloride	1.386	62	21789	4.827	ug/l	99
5) Bromomethane	1.623	94	15966	5.505	ug/l	93
6) Chloroethane	1.703	64	14497	4.864	ug/l	97
7) Trichlorofluoromethane	1.904	101	34689	4.970	ug/l	98
8) Diethyl Ether	2.148	74	12204	4.914	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.343	101	22655	5.094	ug/l	98
10) Methyl Iodide	2.465	142	18441	3.806	ug/l	95
11) Tert butyl alcohol	2.952	59	8771	25.519	ug/l	100
12) 1,1-Dichloroethene	2.337	96	22008	5.116	ug/l	100
13) Acrolein	2.245	56	14598	40.835	ug/l	98
14) Allyl chloride	2.678	41	37266	4.866	ug/l	95
15) Acrylonitrile	3.074	53	47130	23.621	ug/l	100
16) Acetone	2.385	43	41693	25.612	ug/l	94
17) Carbon Disulfide	2.526	76	56543	5.012	ug/l	98
18) Methyl Acetate	2.715	43	18796	4.381	ug/l	92
19) Methyl tert-butyl Ether	3.123	73	58304	4.800	ug/l	96
20) Methylene Chloride	2.800	84	24790	5.150	ug/l	92
21) trans-1,2-Dichloroethene	3.105	96	22385	5.086	ug/l	98
22) Diisopropyl ether	3.763	45	72646	4.910	ug/l #	74
23) Vinyl Acetate	3.733	43	265941	23.992	ug/l	97
24) 1,1-Dichloroethane	3.617	63	42994	5.095	ug/l	97
25) 2-Butanone	4.568	43	53597	24.678	ug/l	99
26) 2,2-Dichloropropane	4.483	77	29599	4.713	ug/l	79
27) cis-1,2-Dichloroethene	4.501	96	26549	4.940	ug/l	96
28) Bromochloromethane	4.915	49	21555	5.176	ug/l	94
29) Tetrahydrofuran	5.019	42	32120	23.200	ug/l	98
30) Chloroform	5.098	83	43886	5.091	ug/l	99
31) Cyclohexane	5.482	56	38601	5.153	ug/l	96
32) 1,1,1-Trichloroethane	5.391	97	35598	4.943	ug/l	95
36) 1,1-Dichloropropene	5.702	75	31138	5.212	ug/l	98
37) Ethyl Acetate	4.733	43	24519	4.818	ug/l #	92
38) Carbon Tetrachloride	5.690	117	32963	5.151	ug/l	93
39) Methylcyclohexane	7.385	83	38332	5.129	ug/l	99
40) Benzene	6.043	78	94260	5.216	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046861.D
 Acq On : 02 Jul 2025 12:37
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:30:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M

Quant Title : SW846 8260

QLast Update : Thu Jul 03 05:21:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.934	41	12777	4.707	ug/l #	94
42) 1,2-Dichloroethane	6.092	62	31102	5.068	ug/l	98
43) Isopropyl Acetate	6.348	43	36681	4.706	ug/l	98
44) Trichloroethene	7.128	130	24587	5.227	ug/l	98
45) 1,2-Dichloropropane	7.433	63	22205	4.863	ug/l	91
46) Dibromomethane	7.586	93	16018	5.063	ug/l	99
47) Bromodichloromethane	7.824	83	33143	4.907	ug/l	99
48) Methyl methacrylate	7.702	41	19166	4.762	ug/l	98
49) 1,4-Dioxane	7.671	88	4647	99.650	ug/l #	90
51) 4-Methyl-2-Pentanone	8.573	43	110844	24.096	ug/l	100
52) Toluene	8.720	92	58295	5.206	ug/l	99
53) t-1,3-Dichloropropene	8.982	75	28142	4.668	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	32562	4.732	ug/l	92
55) 1,1,2-Trichloroethane	9.153	97	21431	5.138	ug/l	96
56) Ethyl methacrylate	9.122	69	26665	4.619	ug/l	97
57) 1,3-Dichloropropane	9.311	76	37000	5.152	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.244	63	76711	23.583	ug/l	99
59) 2-Hexanone	9.433	43	73995	24.251	ug/l	94
60) Dibromochloromethane	9.518	129	25465	5.101	ug/l	96
61) 1,2-Dibromoethane	9.610	107	20695	4.940	ug/l	98
64) Tetrachloroethene	9.274	164	20514	5.203	ug/l	97
65) Chlorobenzene	10.079	112	66148	5.166	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.158	131	20533	4.770	ug/l	94
67) Ethyl Benzene	10.195	91	110637	5.046	ug/l	97
68) m/p-Xylenes	10.299	106	84083	10.176	ug/l	100
69) o-Xylene	10.640	106	40078	5.021	ug/l	99
70) Styrene	10.652	104	68250	4.998	ug/l	99
71) Bromoform	10.799	173	15461	4.831	ug/l #	99
73) Isopropylbenzene	10.963	105	106065	4.876	ug/l	98
74) N-amyl acetate	10.841	43	33387	4.517	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	29333	4.905	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	22279m	4.660	ug/l	
77) Bromobenzene	11.195	156	27534	5.082	ug/l	95
78) n-propylbenzene	11.298	91	130658	4.982	ug/l	97
79) 2-Chlorotoluene	11.359	91	78075	5.042	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	86020	4.867	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	7304	4.100	ug/l #	81
82) 4-Chlorotoluene	11.451	91	90236	5.049	ug/l	100
83) tert-Butylbenzene	11.713	119	88998	4.876	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	88868	4.975	ug/l	95
85) sec-Butylbenzene	11.890	105	115141	5.003	ug/l	100
86) p-Isopropyltoluene	12.006	119	97742	5.072	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	51500	5.083	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	54943	5.210	ug/l	95
89) n-Butylbenzene	12.329	91	89435	4.939	ug/l	97
90) Hexachloroethane	12.536	117	16170	4.733	ug/l	94
91) 1,2-Dichlorobenzene	12.335	146	49253	5.016	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.938	75	4675	4.469	ug/l	90
93) 1,2,4-Trichlorobenzene	13.585	180	31558	4.731	ug/l	100
94) Hexachlorobutadiene	13.719	225	12292	4.886	ug/l	97
95) Naphthalene	13.774	128	78483	4.465	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	29854	4.737	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046861.D
Acq On : 02 Jul 2025 12:37
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 03 05:30:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:21:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

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

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

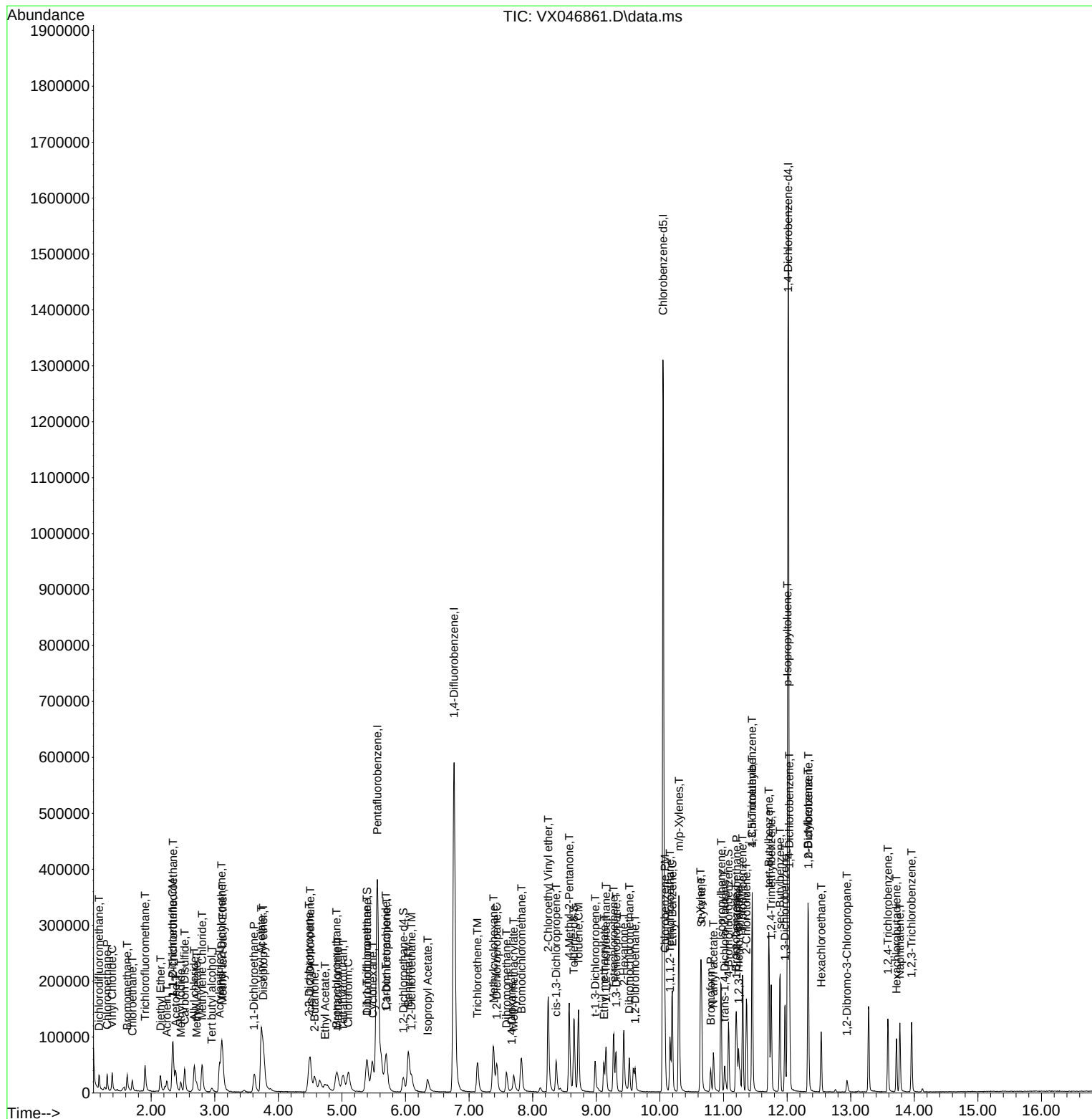
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046861.D
Acq On : 02 Jul 2025 12:37
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

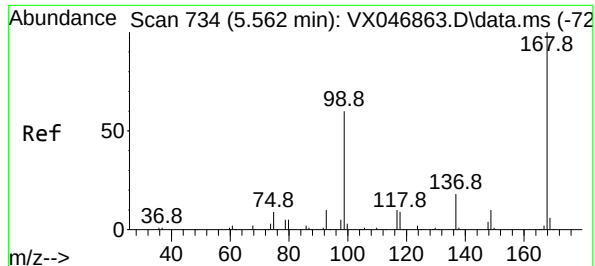
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:30:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:21:52 2025
Response via : Initial Calibration





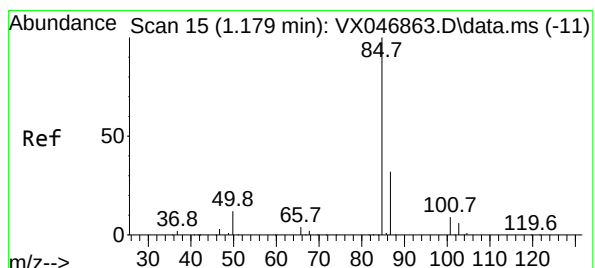
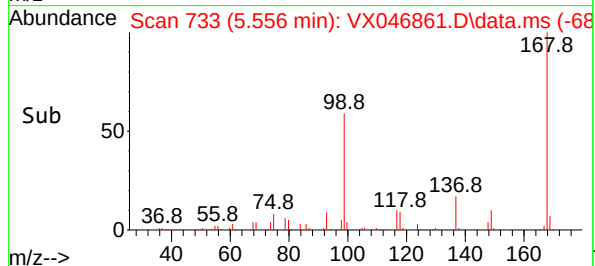
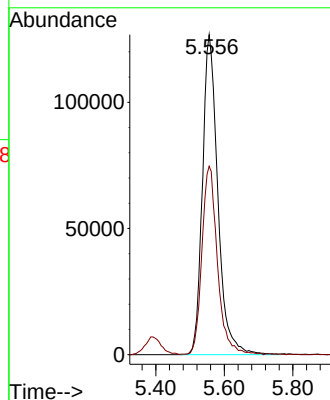
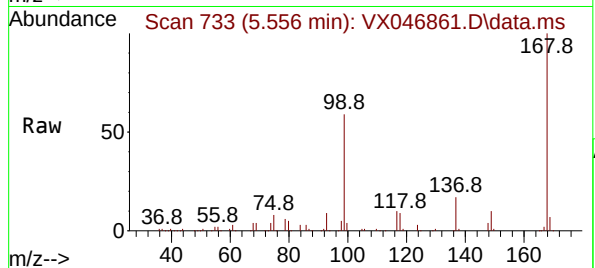
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 39669
Ion Ratio Lower Upper
168 100
99 58.8 48.8 73.2

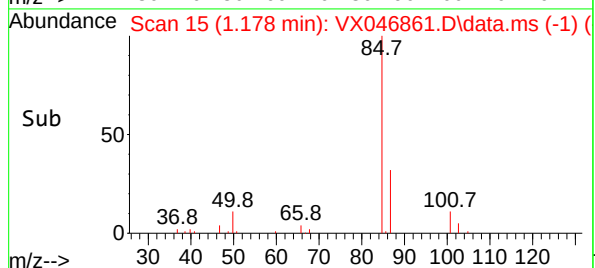
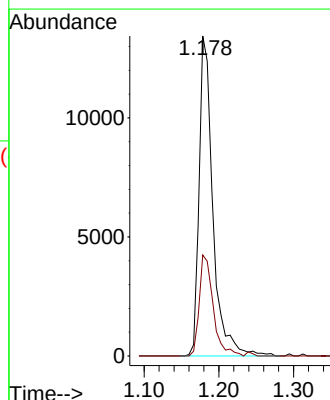
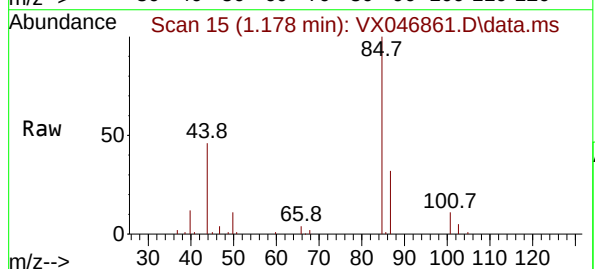
Manual Integrations
APPROVED

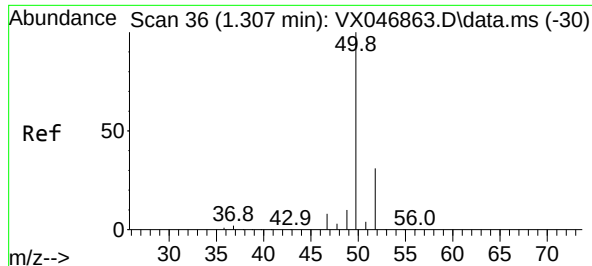
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#2
Dichlorodifluoromethane
Concen: 4.530 ug/l
RT: 1.178 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Tgt Ion: 85 Resp: 17184
Ion Ratio Lower Upper
85 100
87 31.2 16.0 47.9





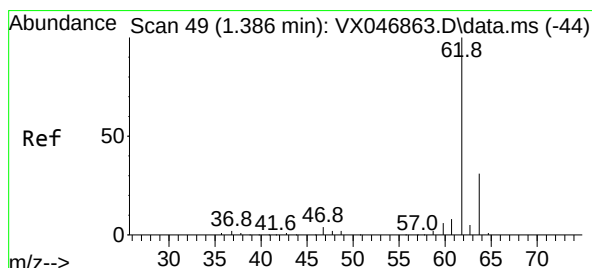
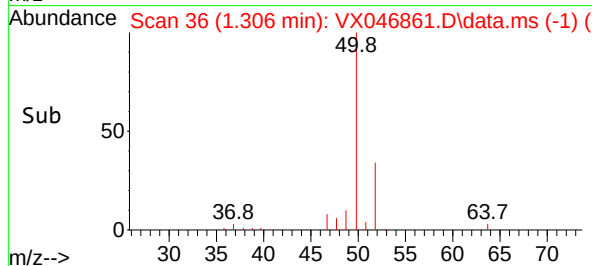
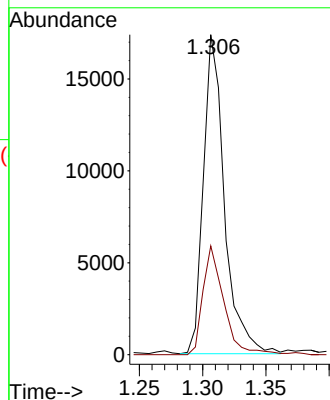
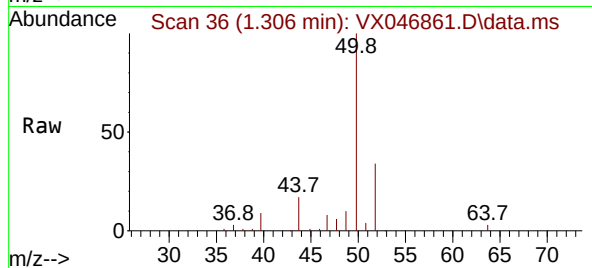
#3
Chloromethane
Concen: 4.857 ug/l
RT: 1.306 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 20130
Ion Ratio Lower Upper
50 100
52 34.1 25.0 37.4

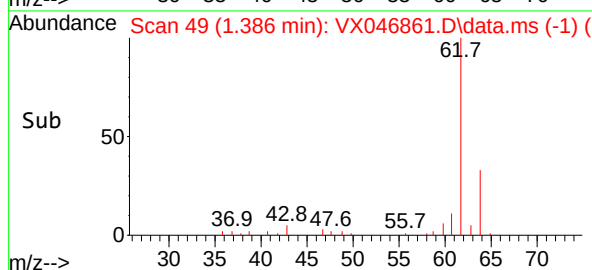
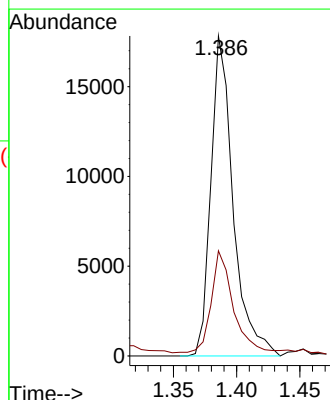
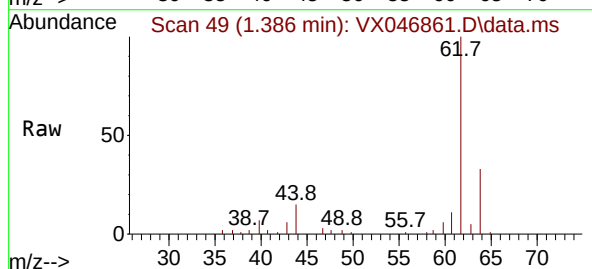
Manual Integrations
APPROVED

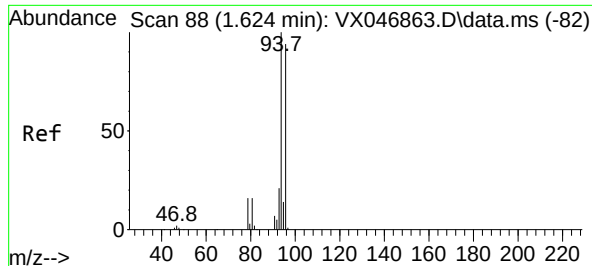
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#4
Vinyl Chloride
Concen: 4.827 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

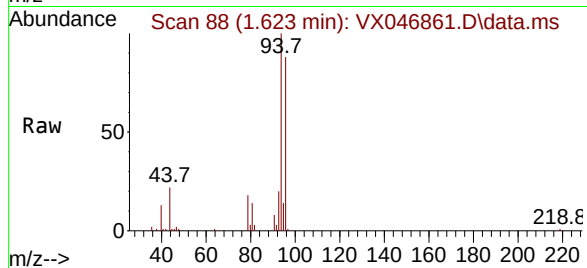
Tgt Ion: 62 Resp: 21789
Ion Ratio Lower Upper
62 100
64 31.7 25.0 37.4





#5
Bromomethane
Concen: 5.505 ug/l
RT: 1.623 min Scan# 88
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

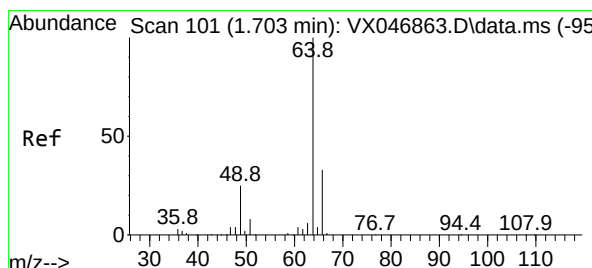
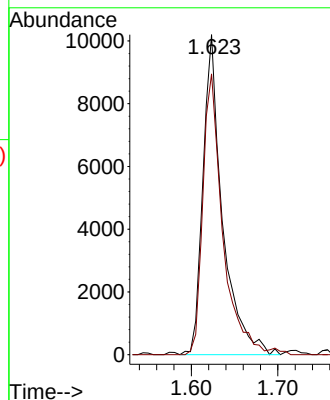
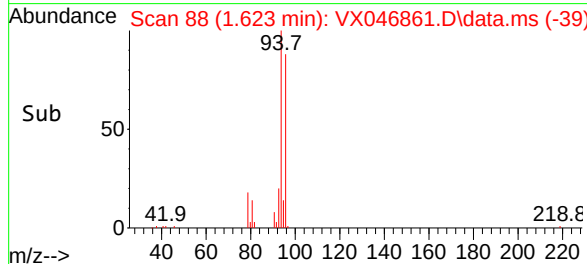
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 94 Resp: 1596
Ion Ratio Lower Upper
94 100
96 87.8 75.5 113.3

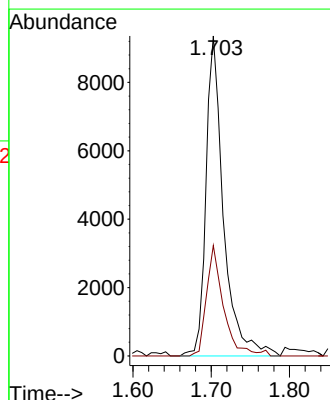
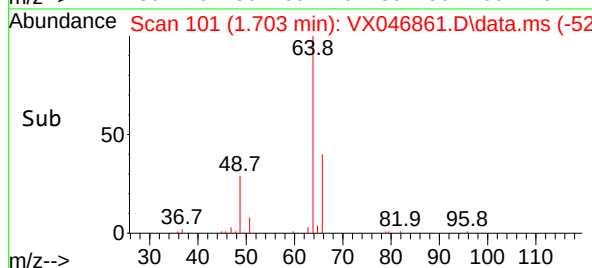
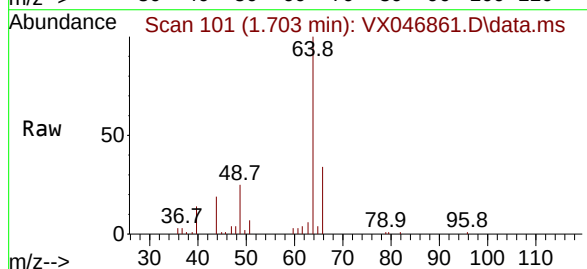
Manual Integrations
APPROVED

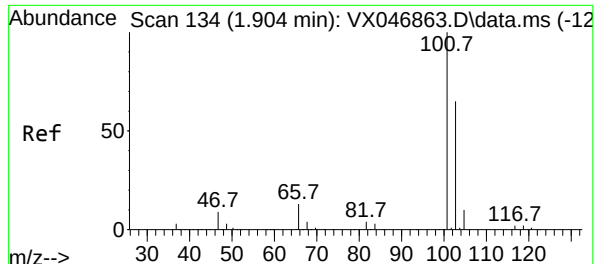
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#6
Chloroethane
Concen: 4.864 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Tgt Ion: 64 Resp: 14497
Ion Ratio Lower Upper
64 100
66 34.5 26.4 39.6





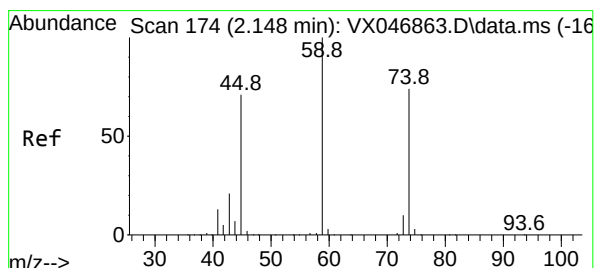
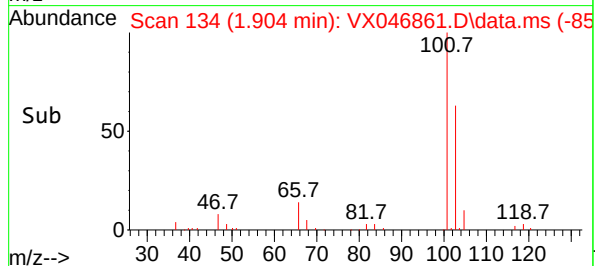
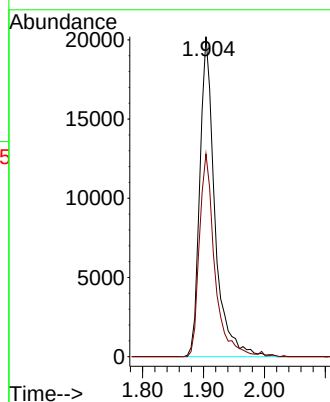
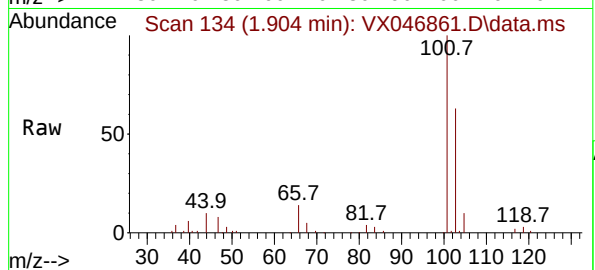
#7
Trichlorofluoromethane
Concen: 4.970 ug/l
RT: 1.904 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 34689
Ion Ratio Lower Upper
101 100
103 63.4 51.9 77.9

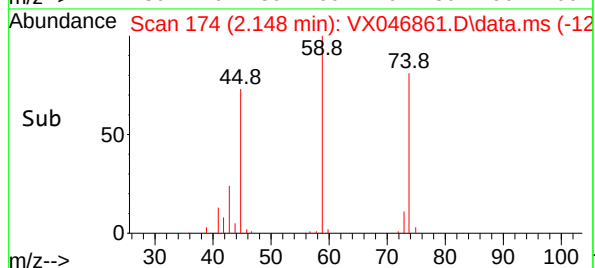
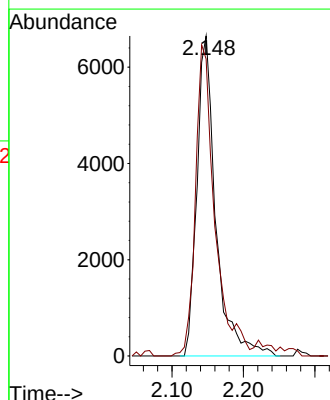
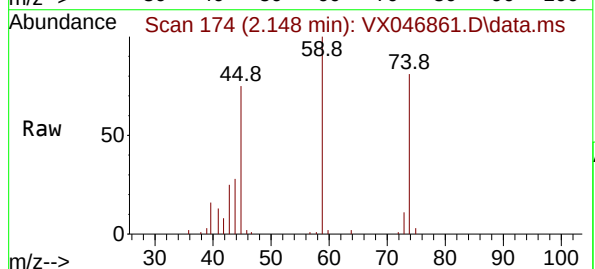
Manual Integrations
APPROVED

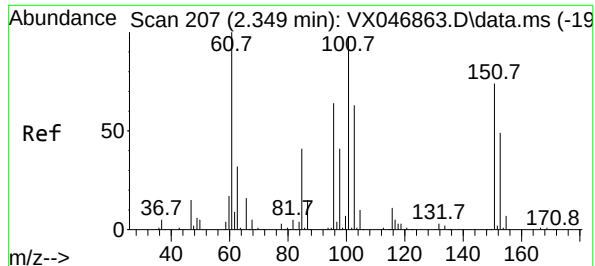
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#8
Diethyl Ether
Concen: 4.914 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Tgt Ion: 74 Resp: 12204
Ion Ratio Lower Upper
74 100
45 99.0 50.7 152.1





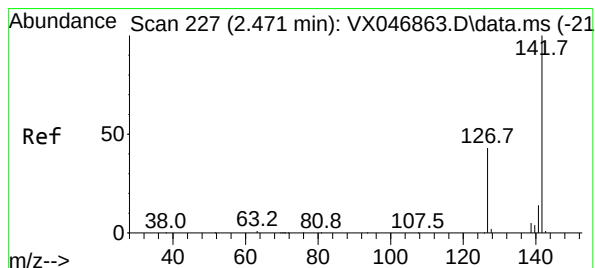
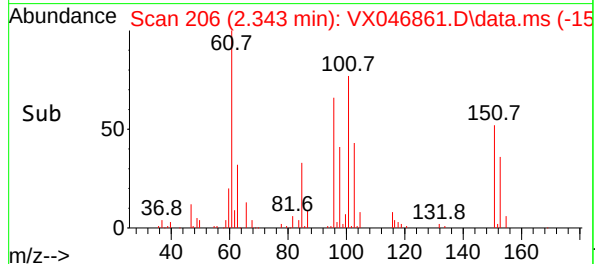
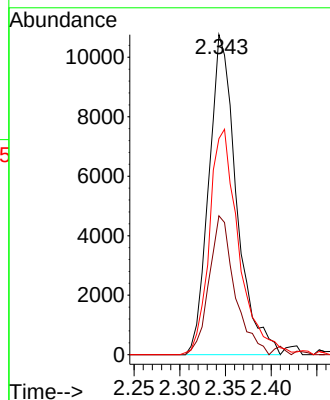
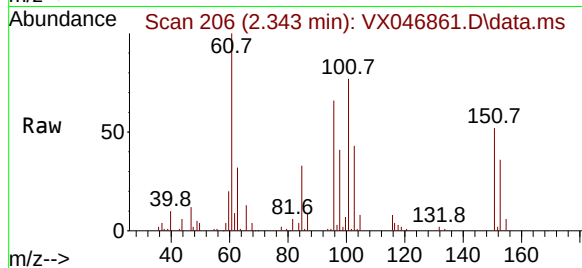
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.094 ug/l
RT: 2.343 min Scan# 206
Delta R.T. -0.006 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:101 Resp: 2265
Ion Ratio Lower Upper
101 100
85 40.2 34.3 51.5
151 74.8 59.9 89.9

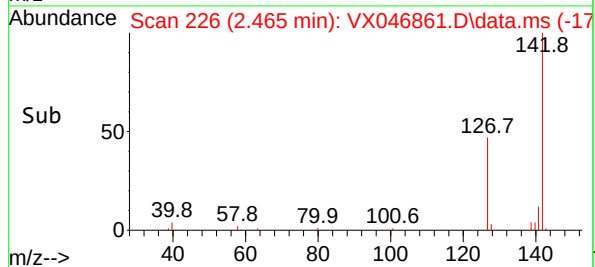
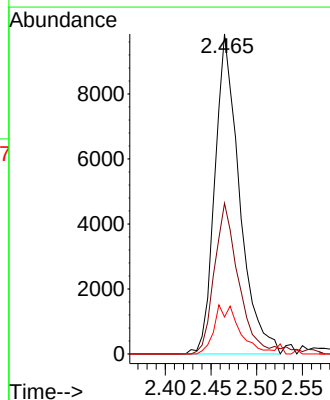
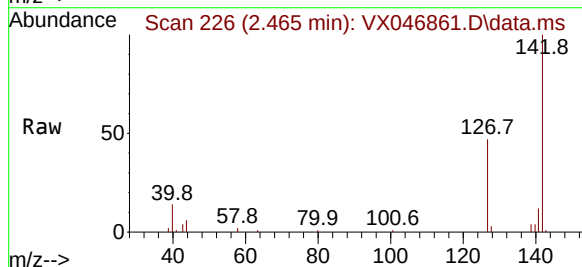
Manual Integrations
APPROVED

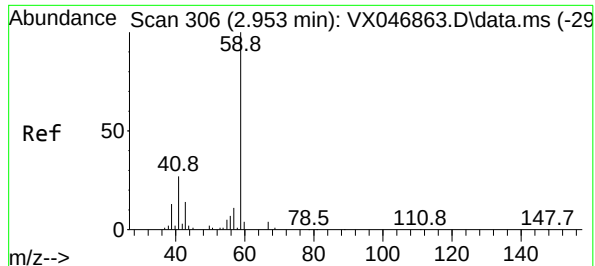
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#10
Methyl Iodide
Concen: 3.806 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

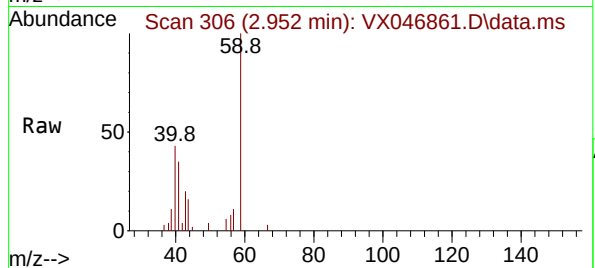
Tgt Ion:142 Resp: 18441
Ion Ratio Lower Upper
142 100
127 47.4 34.9 52.3
141 15.4 11.1 16.7





#11
Tert butyl alcohol
Concen: 25.519 ug/l
RT: 2.952 min Scan# 306
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

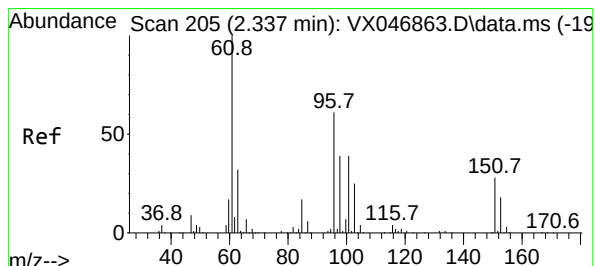
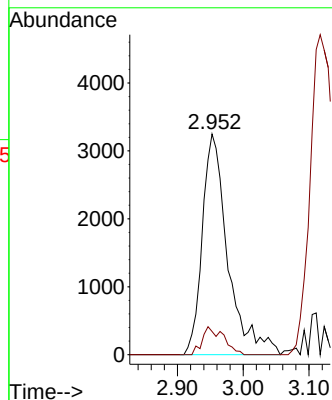
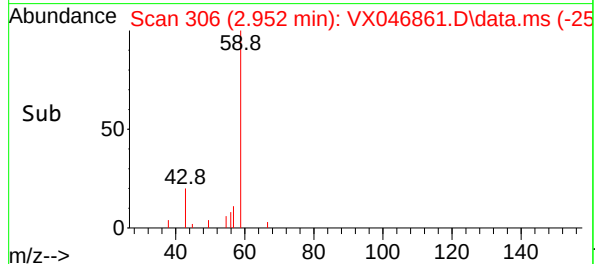
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



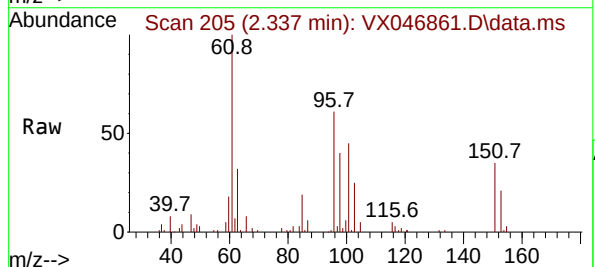
Tgt Ion: 59 Resp: 877
Ion Ratio Lower Upper
59 100
57 10.6 8.5 12.7

Manual Integrations
APPROVED

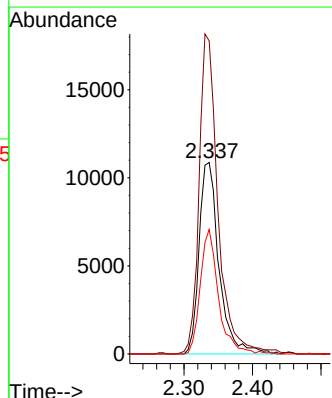
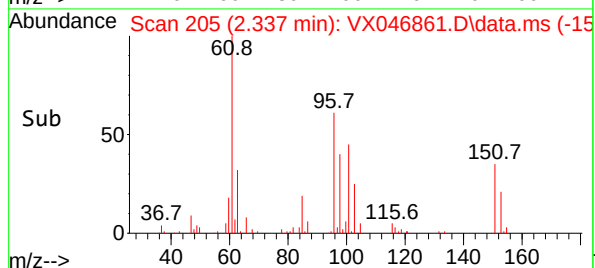
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

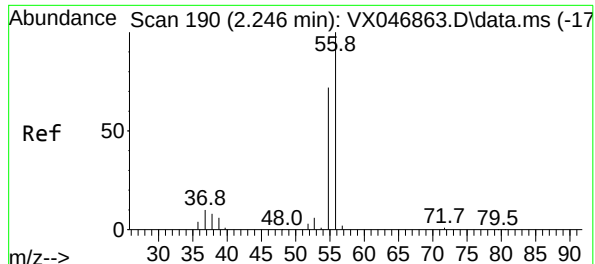


#12
1,1-Dichloroethene
Concen: 5.116 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37



Tgt Ion: 96 Resp: 22008
Ion Ratio Lower Upper
96 100
61 163.0 130.2 195.4
98 65.0 51.3 76.9





#13

Acrolein

Concen: 40.835 ug/l

RT: 2.245 min Scan# 190

Delta R.T. -0.001 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 14598

Ion Ratio Lower Upper

56 100

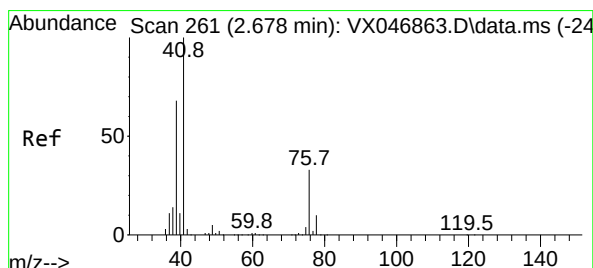
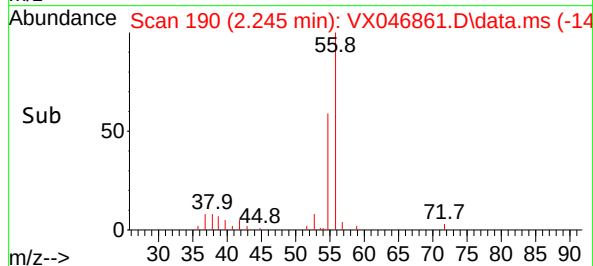
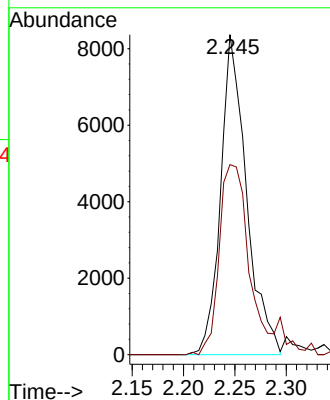
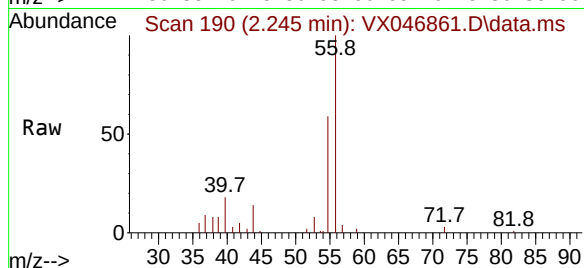
55 68.0 55.5 83.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#14

Allyl chloride

Concen: 4.866 ug/l

RT: 2.678 min Scan# 261

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

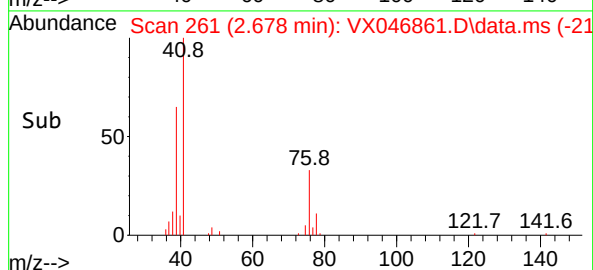
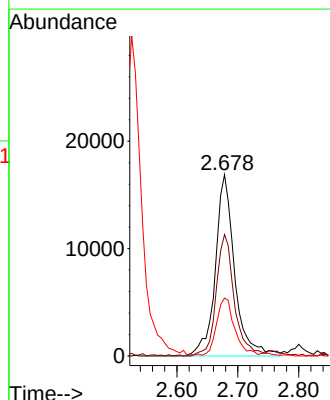
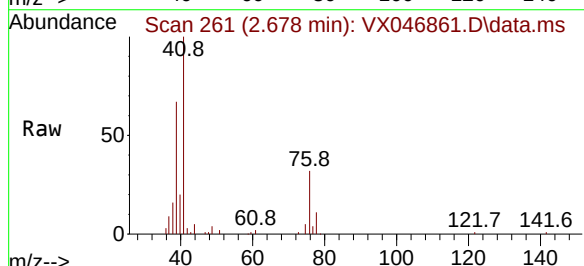
Tgt Ion: 41 Resp: 37266

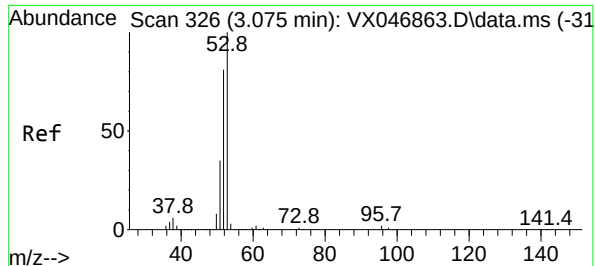
Ion Ratio Lower Upper

41 100

39 62.5 52.0 78.0

76 28.6 26.2 39.2





#15

Acrylonitrile

Concen: 23.621 ug/l

RT: 3.074 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

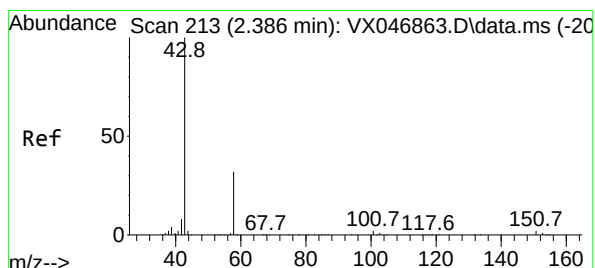
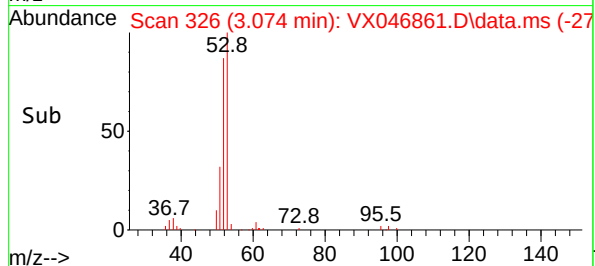
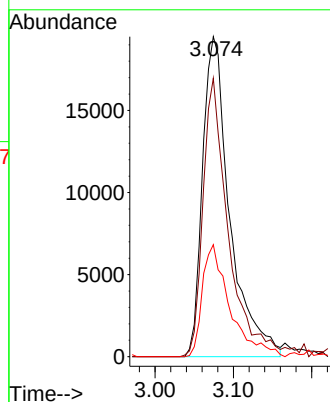
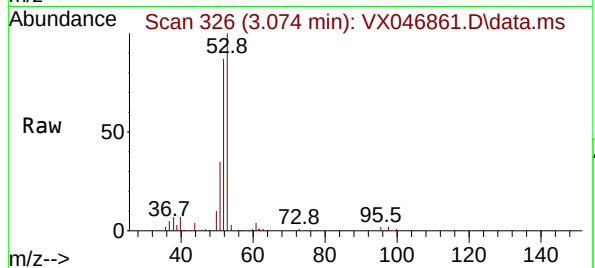
Tgt Ion:	53	Resp:	47130
Ion	Ratio	Lower	Upper
53	100		
52	82.8	66.0	99.0
51	35.3	28.6	43.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#16

Acetone

Concen: 25.612 ug/l

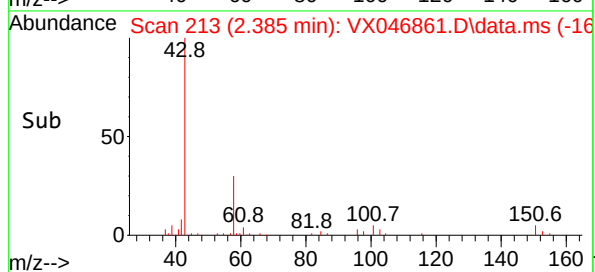
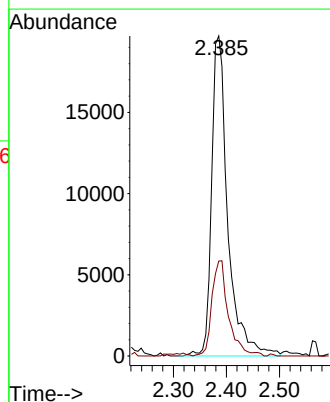
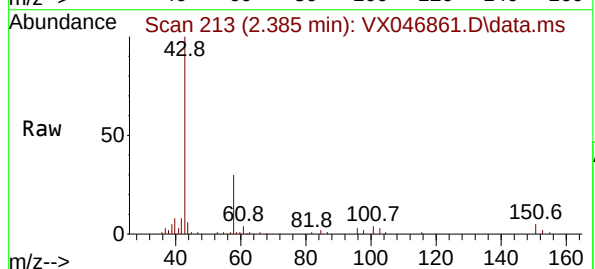
RT: 2.385 min Scan# 213

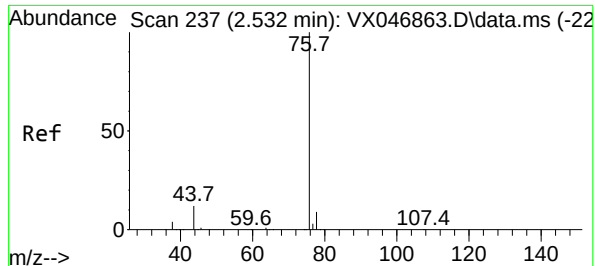
Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Tgt Ion:	43	Resp:	41693
Ion	Ratio	Lower	Upper
43	100		
58	28.6	25.8	38.6





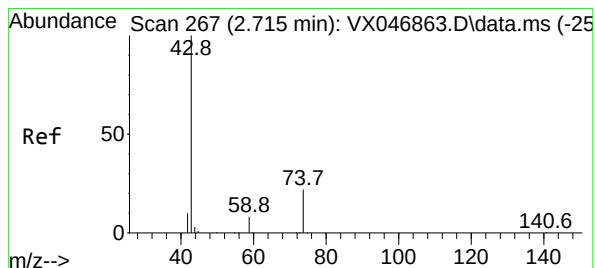
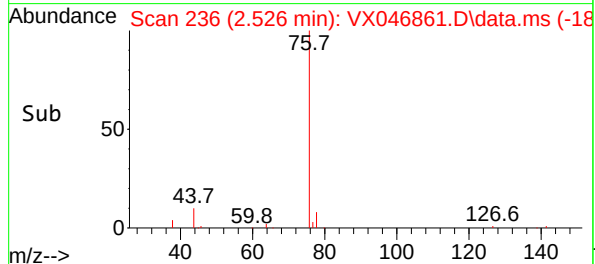
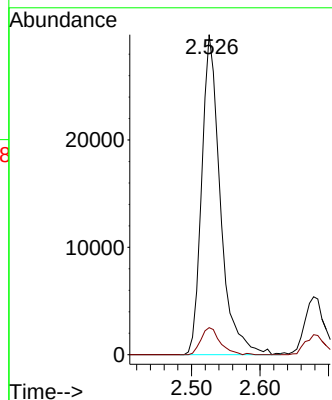
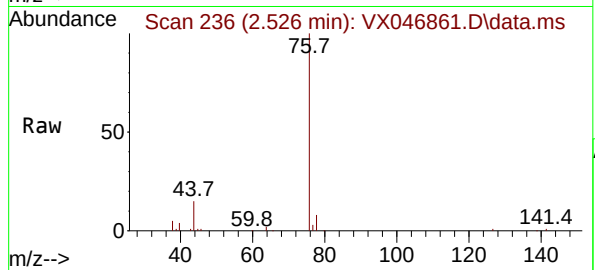
#17
Carbon Disulfide
Concen: 5.012 ug/l
RT: 2.526 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 5654
Ion Ratio Lower Upper
76 100
78 8.5 7.4 11.2

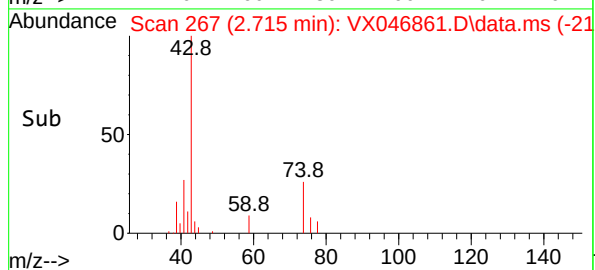
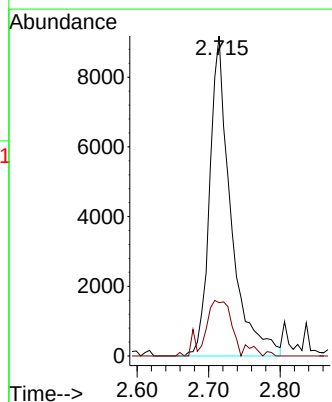
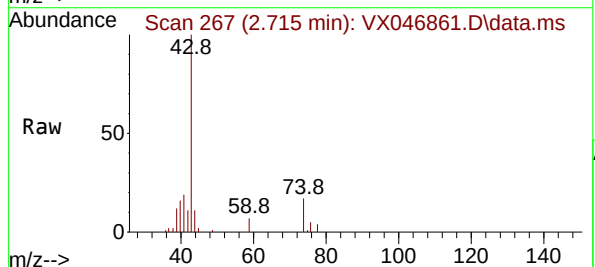
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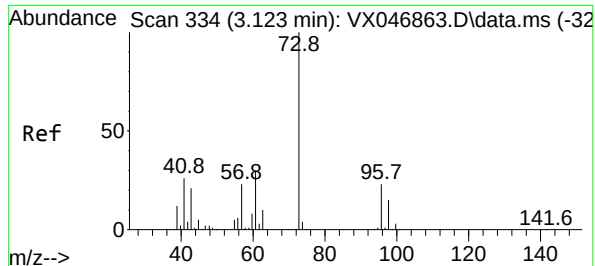
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#18
Methyl Acetate
Concen: 4.381 ug/l
RT: 2.715 min Scan# 267
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Tgt Ion: 43 Resp: 18796
Ion Ratio Lower Upper
43 100
74 19.2 18.3 27.5





#19

Methyl tert-butyl Ether

Concen: 4.800 ug/l

RT: 3.123 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 58304

Ion Ratio Lower Upper

73 100

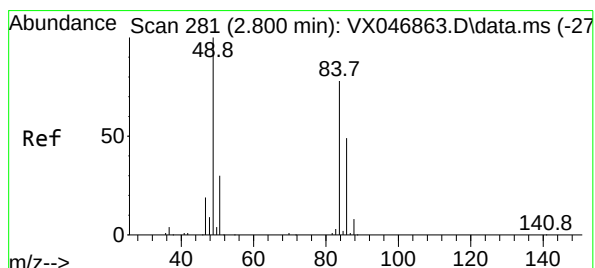
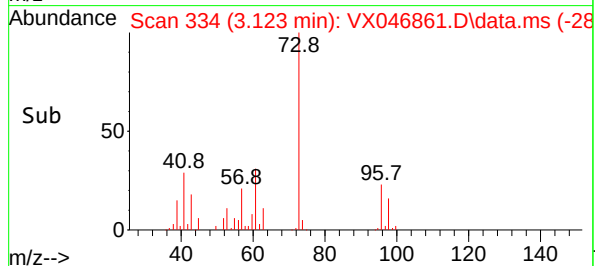
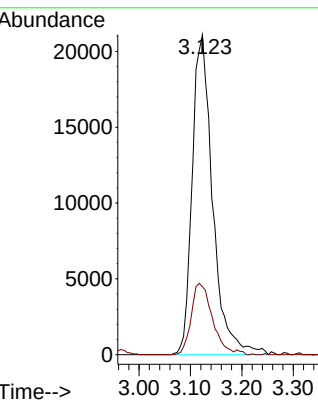
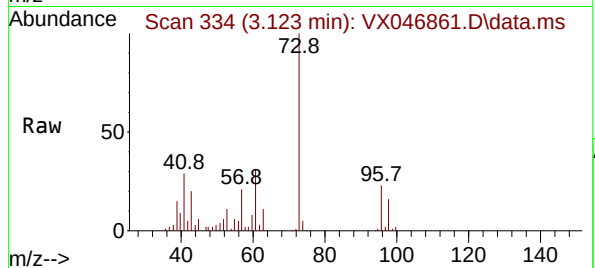
57 21.2 18.6 28.0

Manual Integrations

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Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#20

Methylene Chloride

Concen: 5.150 ug/l

RT: 2.800 min Scan# 281

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Tgt Ion: 84 Resp: 24790

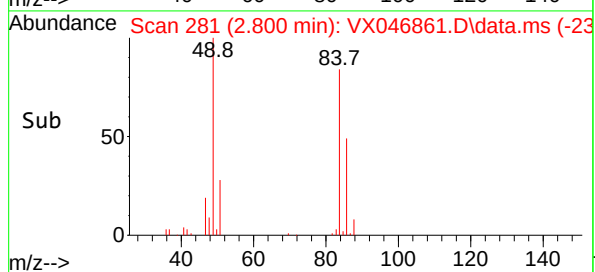
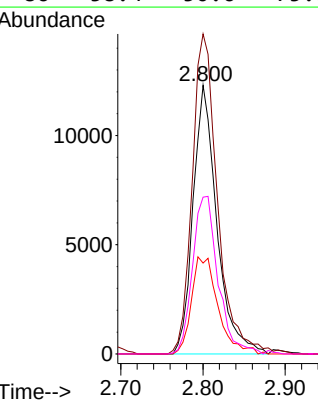
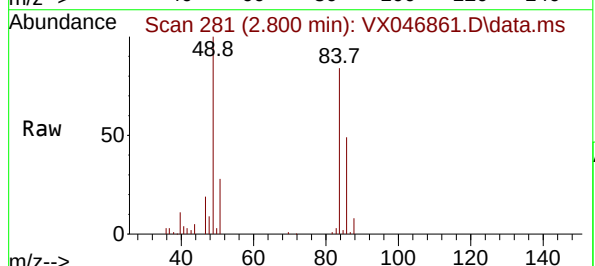
Ion Ratio Lower Upper

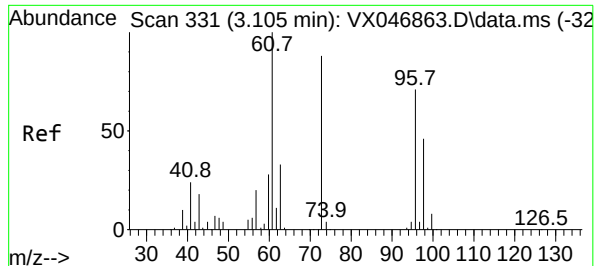
84 100

49 119.1 102.8 154.2

51 33.8 31.1 46.7

86 58.4 50.6 75.8





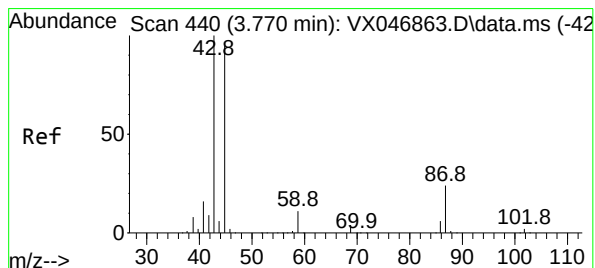
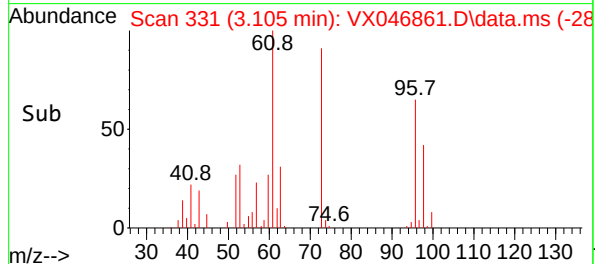
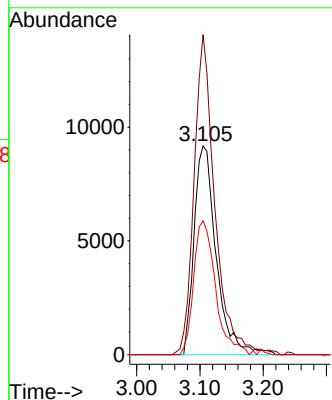
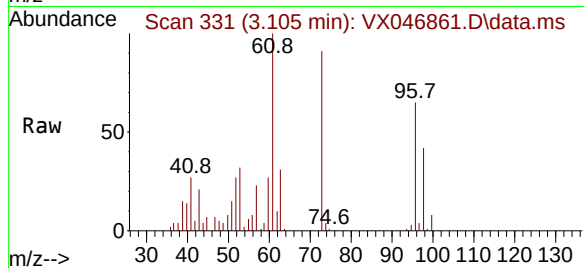
#21
trans-1,2-Dichloroethene
Concen: 5.086 ug/l
RT: 3.105 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 96 Resp: 2238
Ion Ratio Lower Upper
96 100
61 143.8 113.4 170.2
98 62.3 51.8 77.6

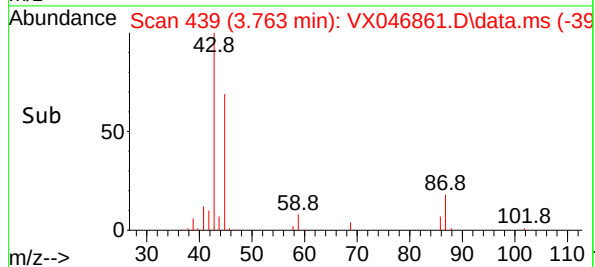
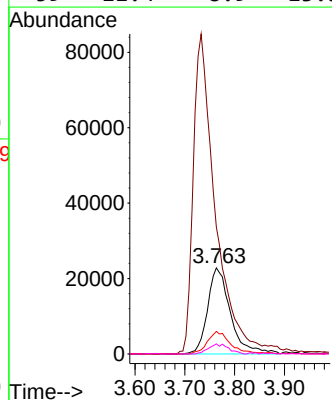
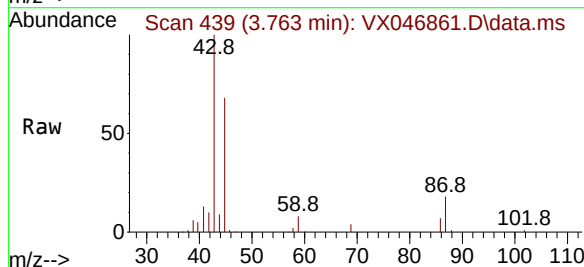
Manual Integrations
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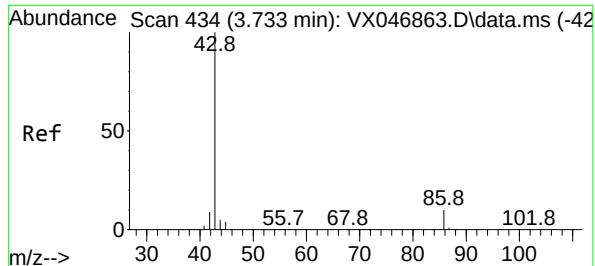
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#22
Diisopropyl ether
Concen: 4.910 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.006 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Tgt Ion: 45 Resp: 72646
Ion Ratio Lower Upper
45 100
43 141.8 84.2 126.4#
87 25.7 20.3 30.5
59 11.4 8.9 13.3





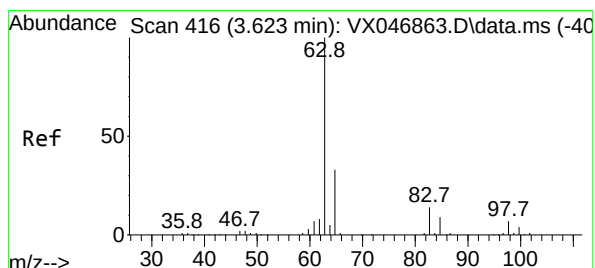
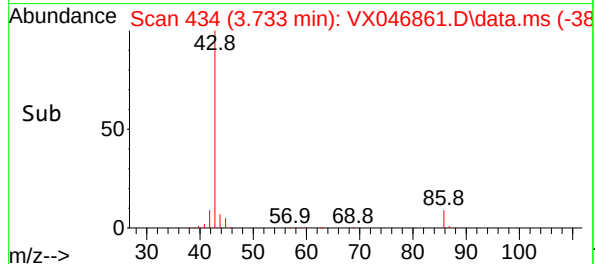
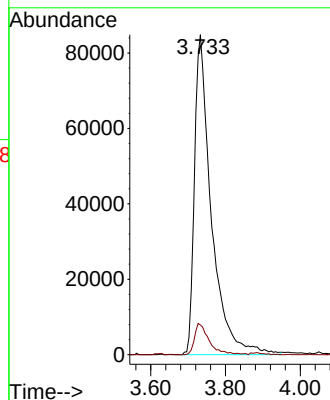
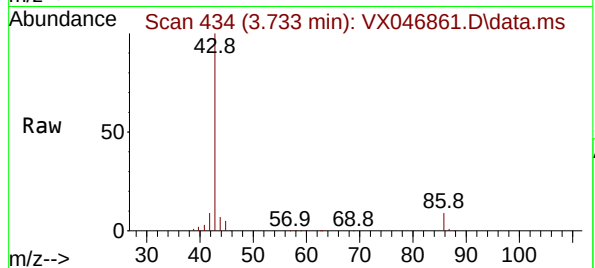
#23
Vinyl Acetate
Concen: 23.992 ug/l
RT: 3.733 min Scan# 41
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 26594
Ion Ratio Lower Upper
43 100
86 9.3 8.2 12.4

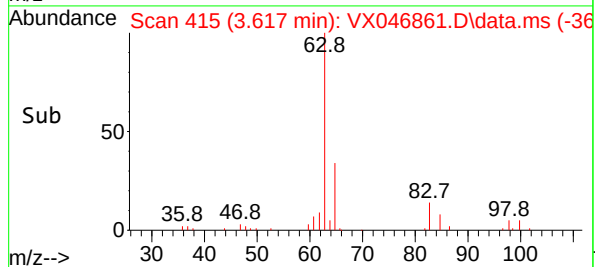
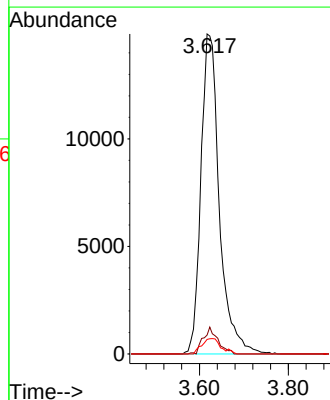
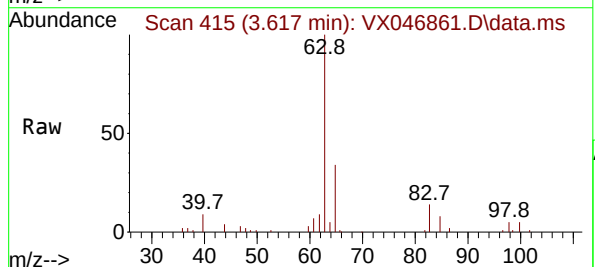
Manual Integrations
APPROVED

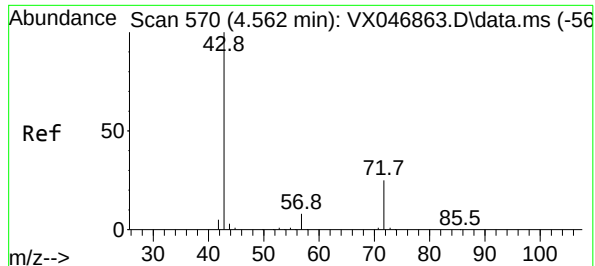
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#24
1,1-Dichloroethane
Concen: 5.095 ug/l
RT: 3.617 min Scan# 415
Delta R.T. -0.006 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Tgt Ion: 63 Resp: 42994
Ion Ratio Lower Upper
63 100
98 5.9 3.6 10.9
100 4.6 2.3 6.9





#25

2-Butanone

Concen: 24.678 ug/l

RT: 4.568 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 5359

Ion Ratio Lower Upper

43 100

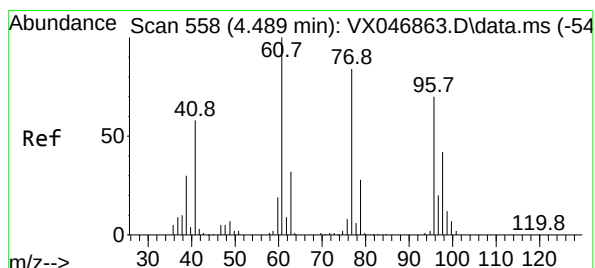
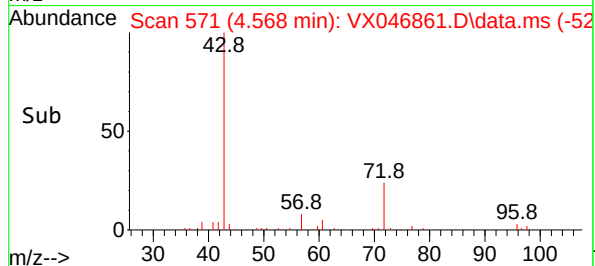
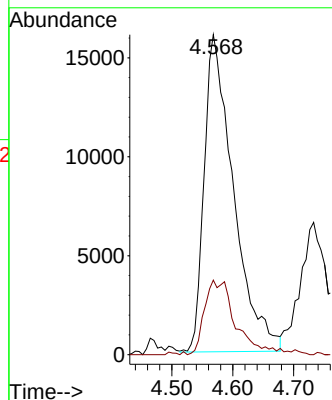
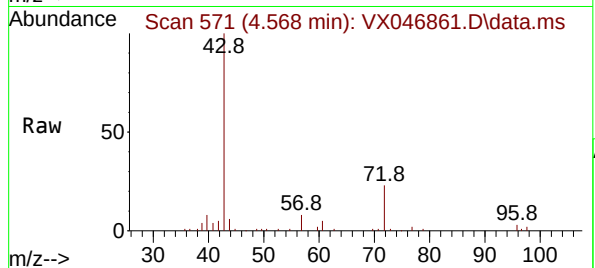
72 24.4 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#26

2,2-Dichloropropane

Concen: 4.713 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.006 min

Lab File: VX046861.D

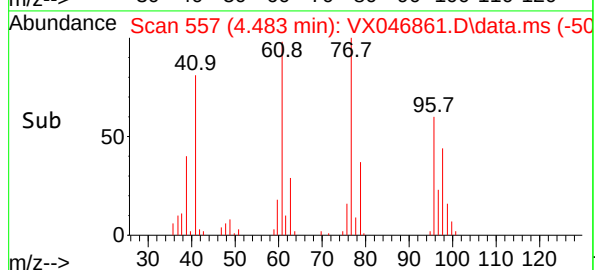
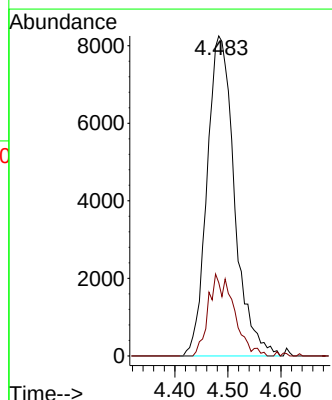
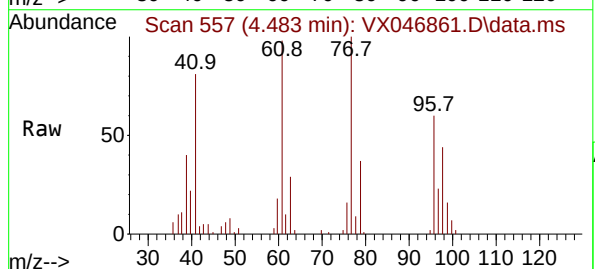
Acq: 02 Jul 2025 12:37

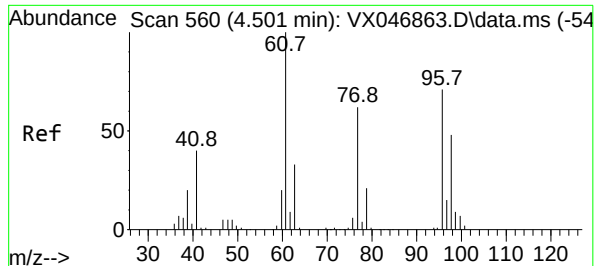
Tgt Ion: 77 Resp: 29599

Ion Ratio Lower Upper

77 100

97 12.6 11.5 34.5





#27

cis-1,2-Dichloroethene

Concen: 4.940 ug/l

RT: 4.501 min Scan# 50

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

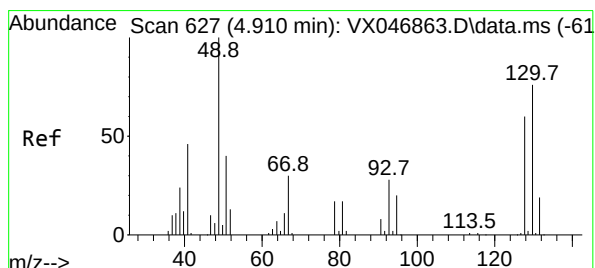
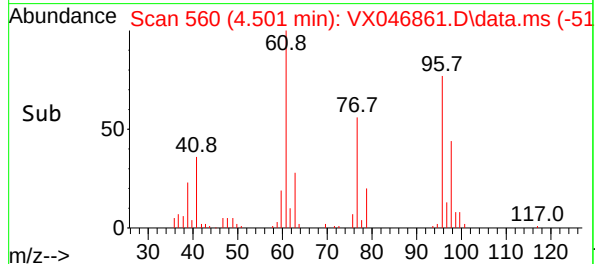
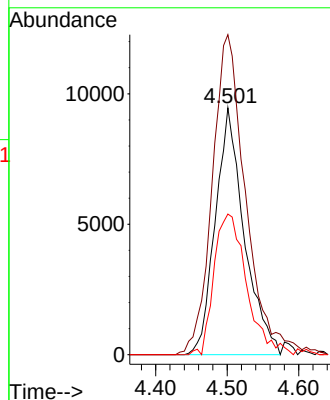
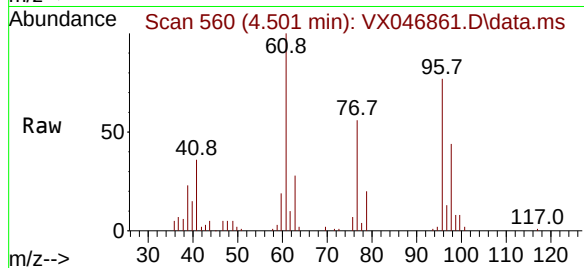
Tgt Ion:	96	Resp:	26549
Ion	Ratio	Lower	Upper
96	100		
61	150.8	0.0	288.6
98	64.1	0.0	128.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#28

Bromochloromethane

Concen: 5.176 ug/l

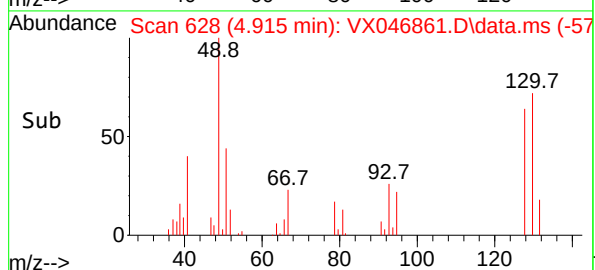
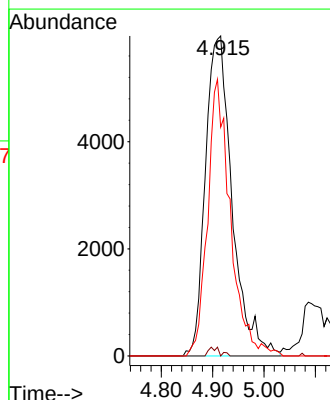
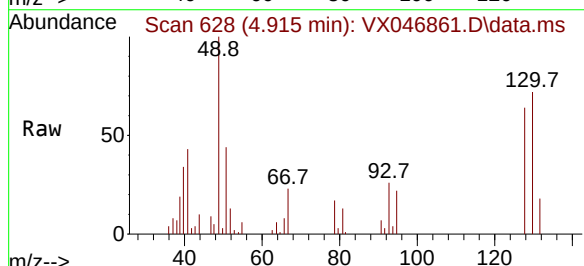
RT: 4.915 min Scan# 628

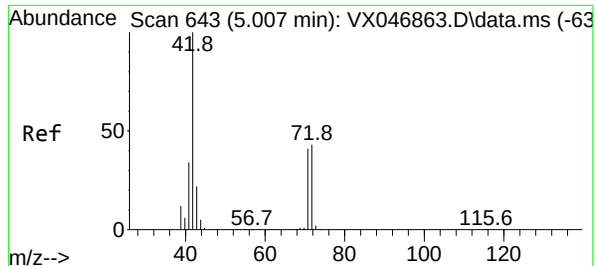
Delta R.T. 0.006 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Tgt Ion:	49	Resp:	21555
Ion	Ratio	Lower	Upper
49	100		
129	1.1	0.0	4.2
130	72.2	61.7	92.5





#29

Tetrahydrofuran

Concen: 23.200 ug/l

RT: 5.019 min Scan# 643

Delta R.T. 0.012 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

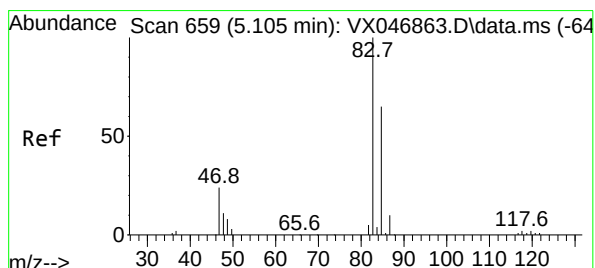
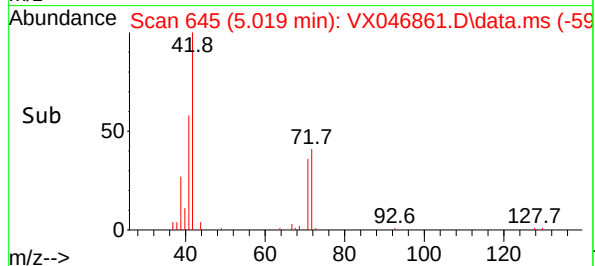
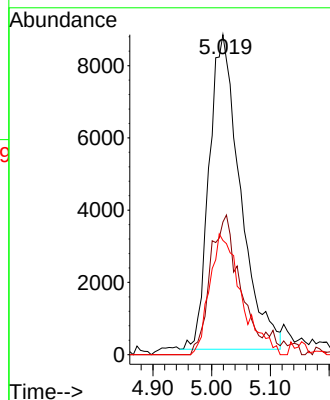
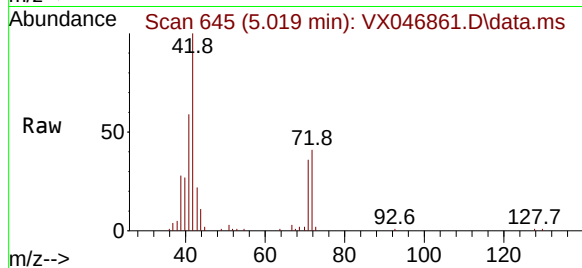
VSTDIC005

Tgt Ion:	42	Resp:	32120
Ion	Ratio	Lower	Upper
42	100		
72	41.9	35.1	52.7
71	39.0	31.9	47.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#30

Chloroform

Concen: 5.091 ug/l

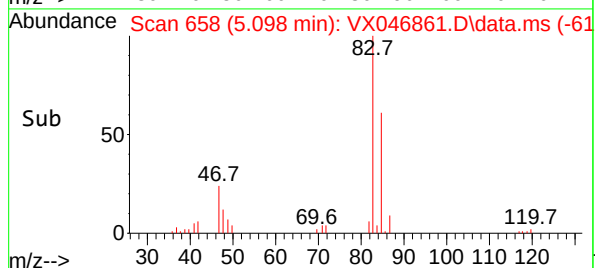
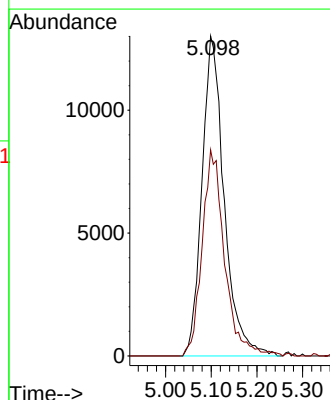
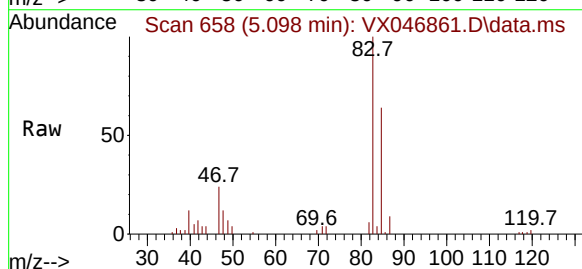
RT: 5.098 min Scan# 658

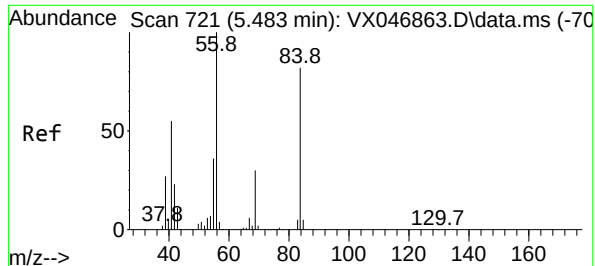
Delta R.T. -0.006 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Tgt Ion:	83	Resp:	43886
Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.8	77.8





#31

Cyclohexane

Concen: 5.153 ug/l

RT: 5.482 min Scan# 706

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 3860

Ion Ratio Lower Upper

56 100

69 31.1 24.0 36.0

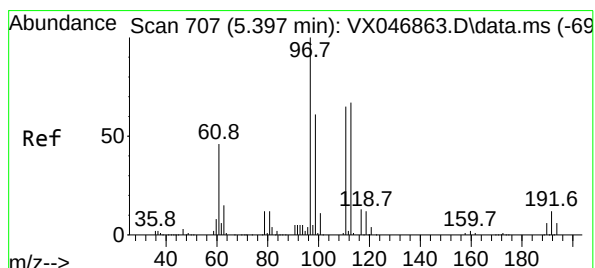
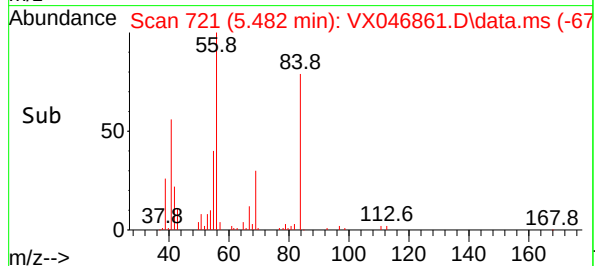
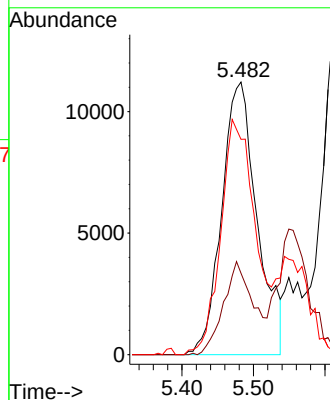
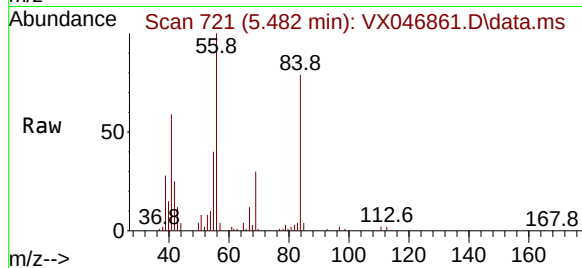
84 79.0 66.5 99.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#32

1,1,1-Trichloroethane

Concen: 4.943 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

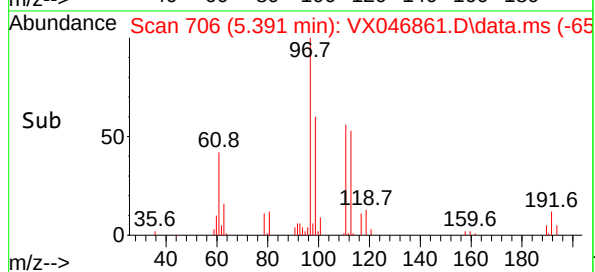
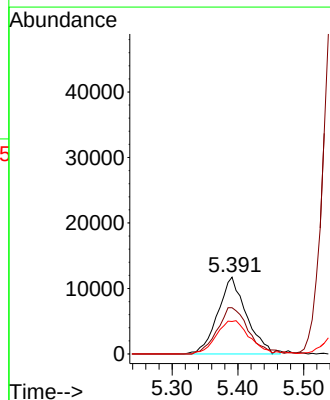
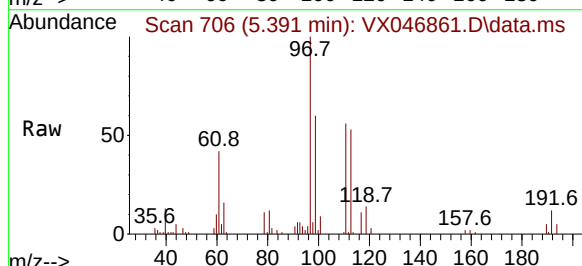
Tgt Ion: 97 Resp: 35598

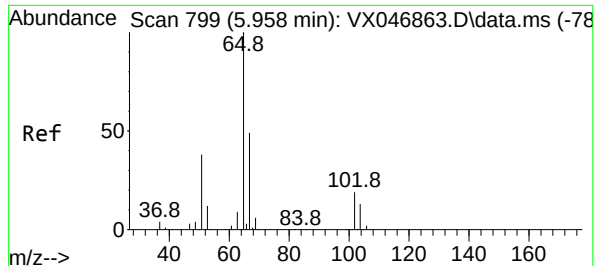
Ion Ratio Lower Upper

97 100

99 65.1 50.6 76.0

61 50.4 36.3 54.5





#33

1,2-Dichloroethane-d4

Concen: 5.468 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.006 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 2865

Ion Ratio Lower Upper

65 100

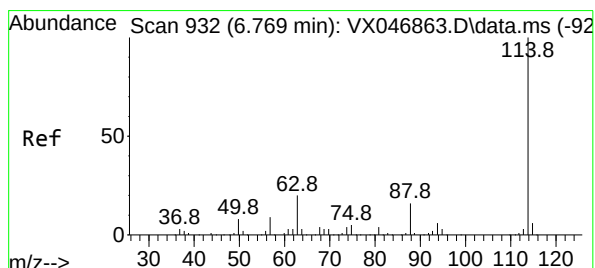
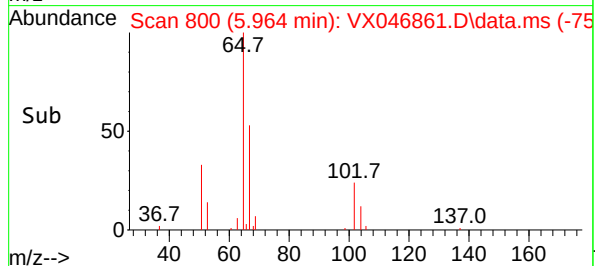
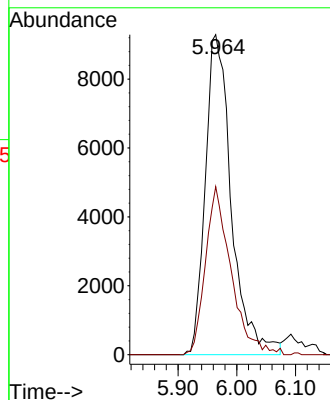
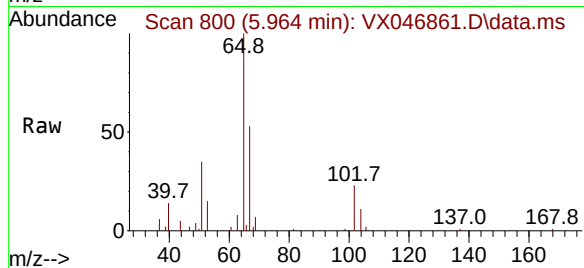
67 51.6 0.0 105.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.006 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

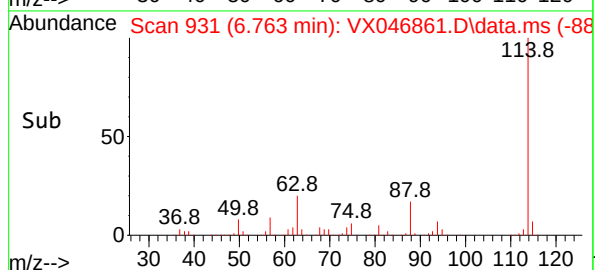
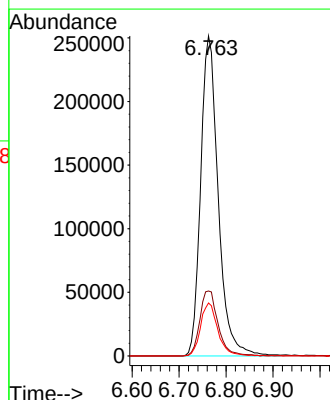
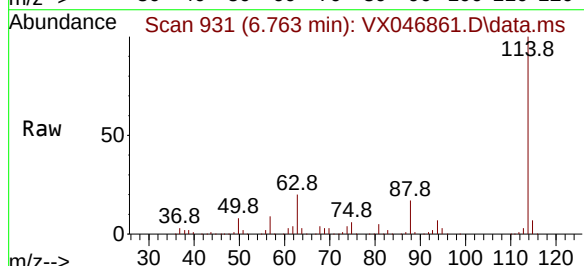
Tgt Ion:114 Resp: 652365

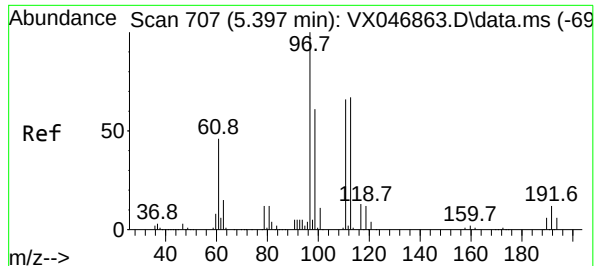
Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.4

88 16.5 0.0 31.0





#35

Dibromofluoromethane

Concen: 5.234 ug/l

RT: 5.397 min Scan# 707

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

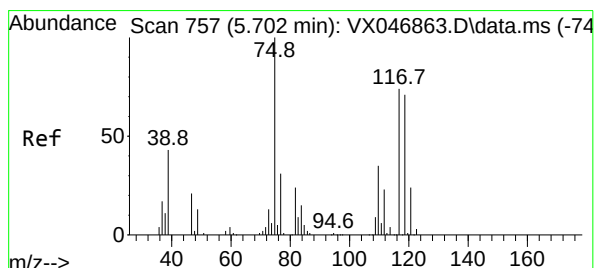
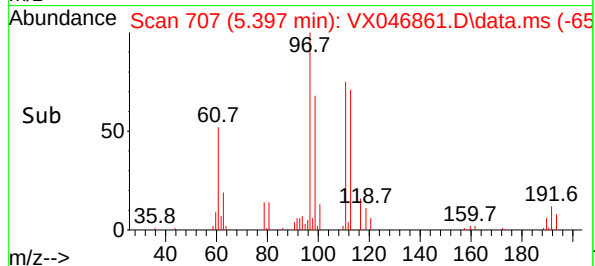
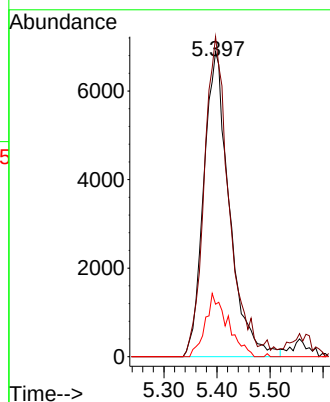
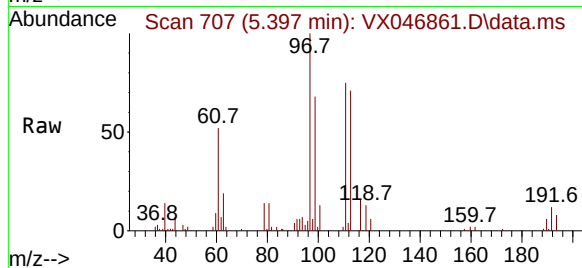
VSTDICC005

Tgt Ion:	113	Resp:	23179
Ion	Ratio	Lower	Upper
113	100		
111	100.5	81.2	121.8
192	18.2	15.3	22.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#36

1,1-Dichloropropene

Concen: 5.212 ug/l

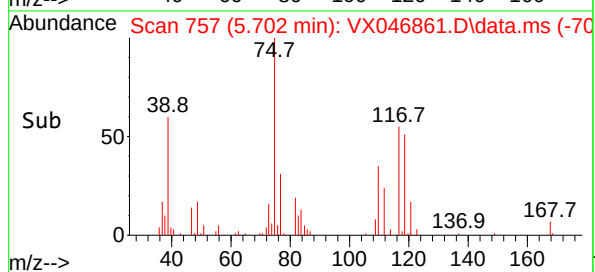
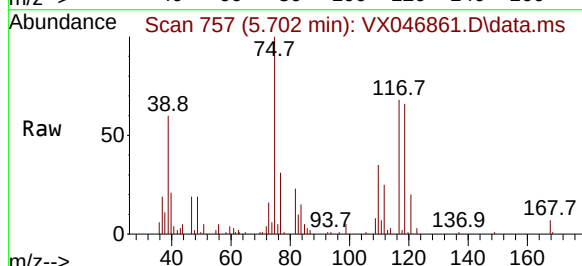
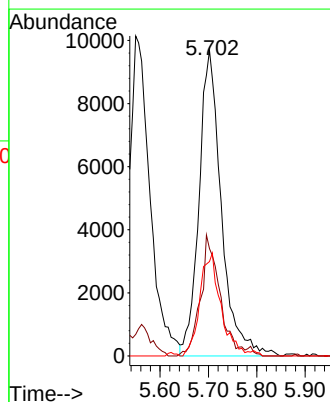
RT: 5.702 min Scan# 757

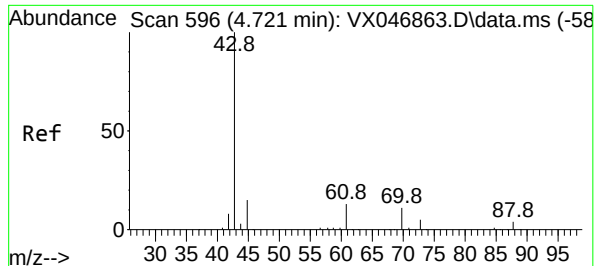
Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Tgt Ion:	75	Resp:	31138
Ion	Ratio	Lower	Upper
75	100		
110	35.1	17.3	51.9
77	31.6	24.2	36.4





#37

Ethyl Acetate

Concen: 4.818 ug/l

RT: 4.733 min Scan# 598

Delta R.T. 0.012 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

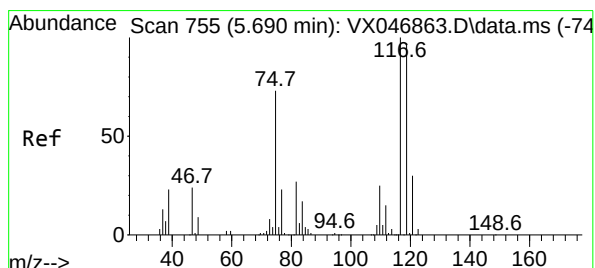
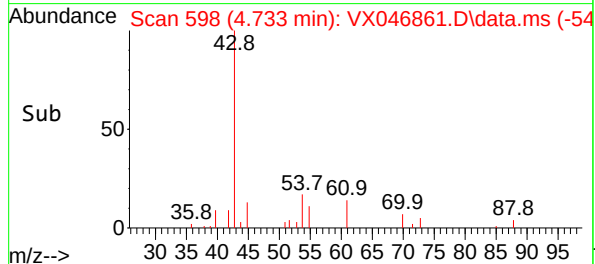
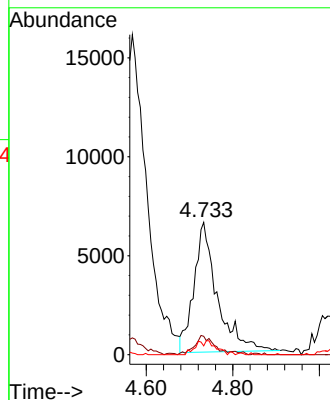
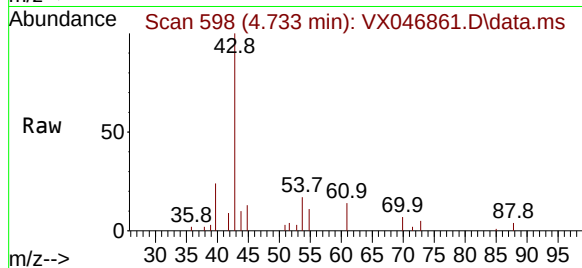
VSTDIC005

Tgt Ion:	43	Resp:	24519
Ion	Ratio	Lower	Upper
43	100		
61	12.2	9.7	14.5
70	4.2	8.3	12.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#38

Carbon Tetrachloride

Concen: 5.151 ug/l

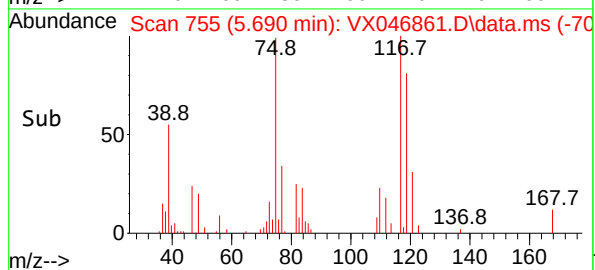
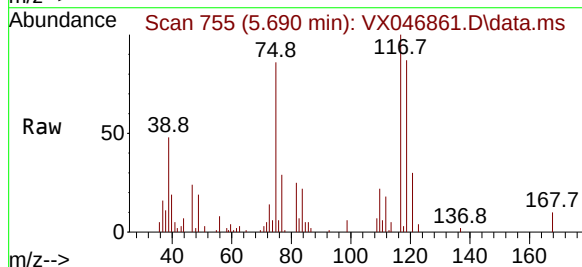
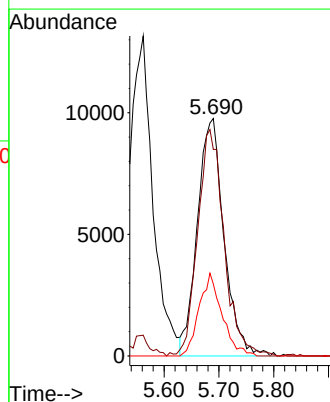
RT: 5.690 min Scan# 755

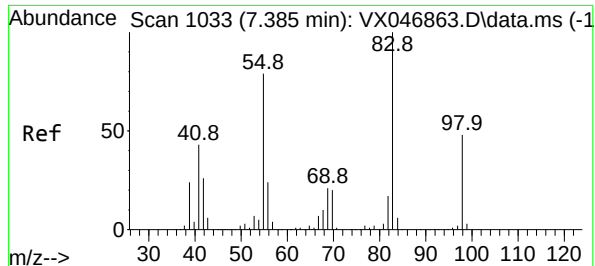
Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Tgt Ion:	117	Resp:	32963
Ion	Ratio	Lower	Upper
117	100		
119	87.0	76.6	114.8
121	30.3	24.1	36.1





#39

Methylcyclohexane

Concen: 5.129 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 3833

Ion Ratio Lower Upper

83 100

55 79.8 63.0 94.4

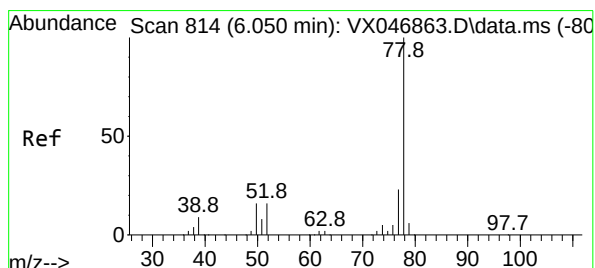
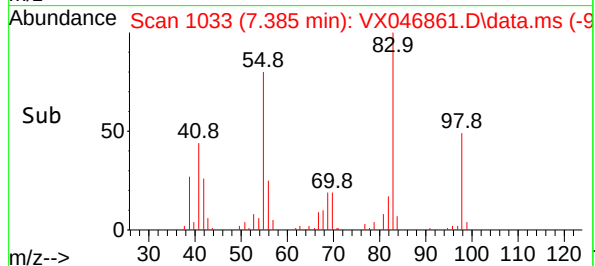
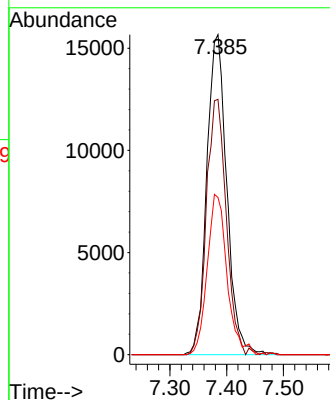
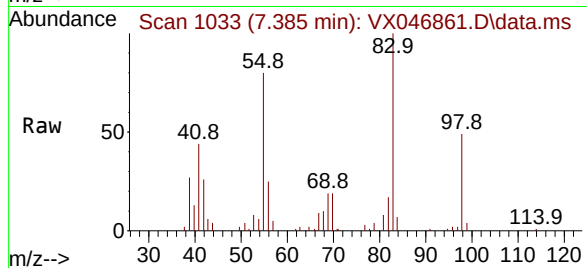
98 49.1 38.5 57.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#40

Benzene

Concen: 5.216 ug/l

RT: 6.043 min Scan# 813

Delta R.T. -0.006 min

Lab File: VX046861.D

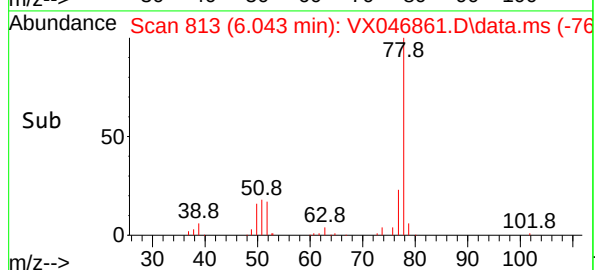
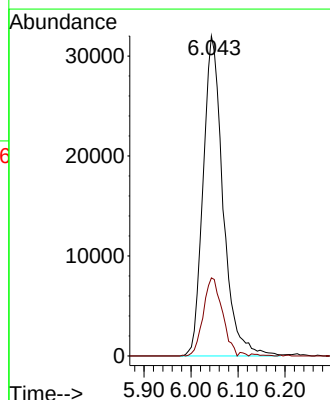
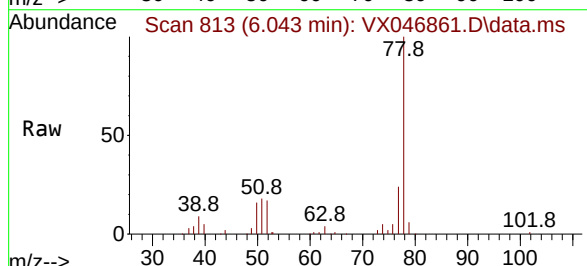
Acq: 02 Jul 2025 12:37

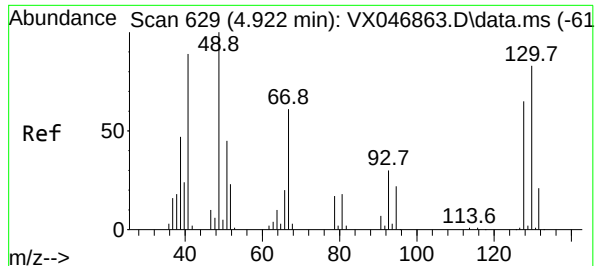
Tgt Ion: 78 Resp: 94260

Ion Ratio Lower Upper

78 100

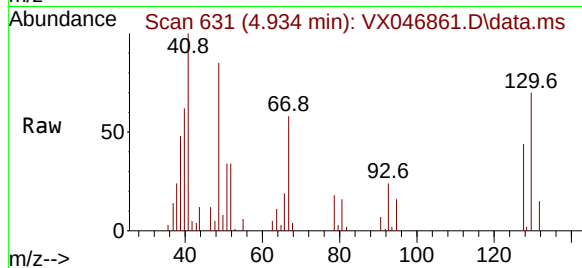
77 24.4 18.7 28.1





#41
Methacrylonitrile
Concen: 4.707 ug/l
RT: 4.934 min Scan# 61
Delta R.T. 0.012 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

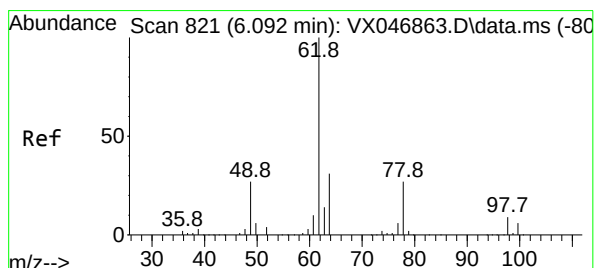
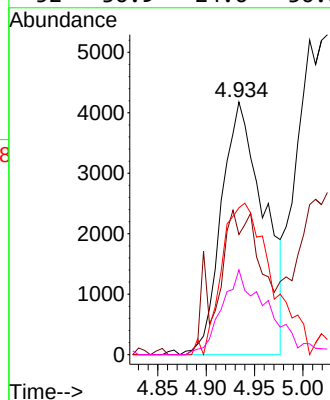
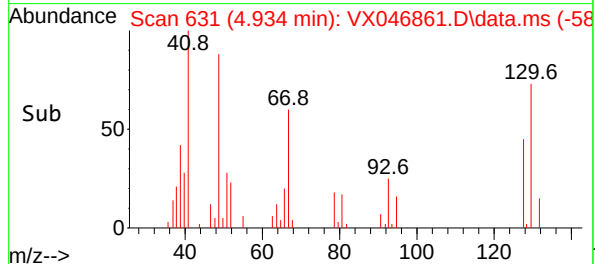
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion: 41 Resp: 1277
Ion Ratio Lower Upper
41 100
39 51.6 43.0 64.4
67 70.4 60.2 90.2
52 36.9 24.6 36.8#

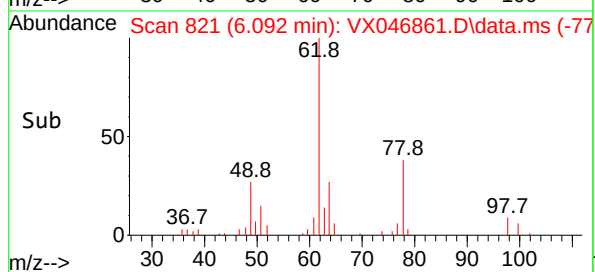
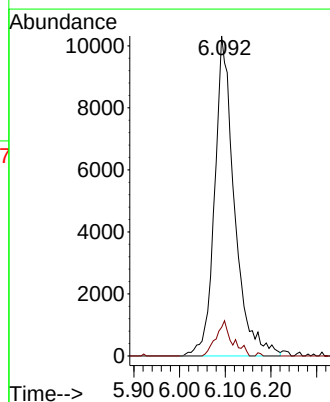
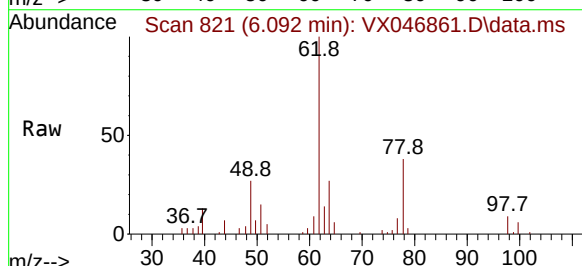
Manual Integrations
APPROVED

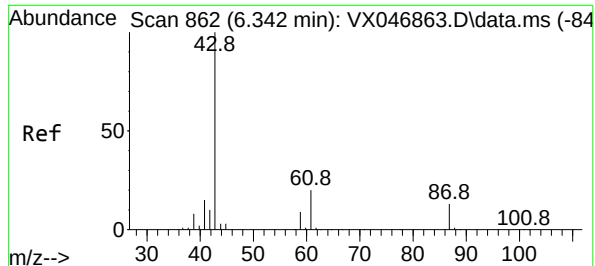
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#42
1,2-Dichloroethane
Concen: 5.068 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Tgt Ion: 62 Resp: 31102
Ion Ratio Lower Upper
62 100
98 9.0 0.0 19.4





#43

Isopropyl Acetate

Concen: 4.706 ug/l

RT: 6.348 min Scan# 862

Delta R.T. 0.006 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

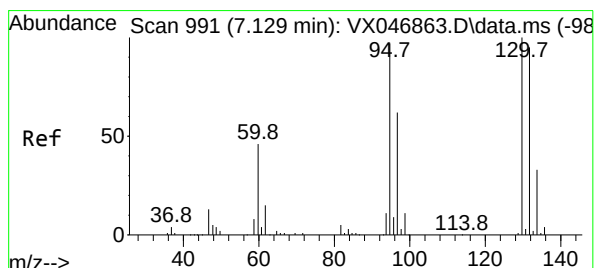
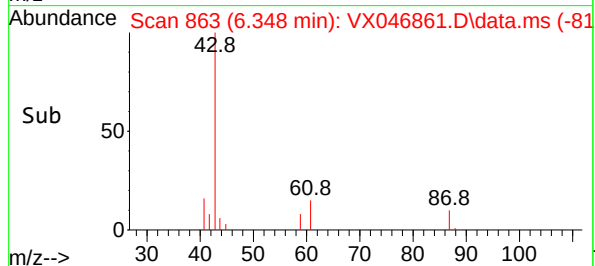
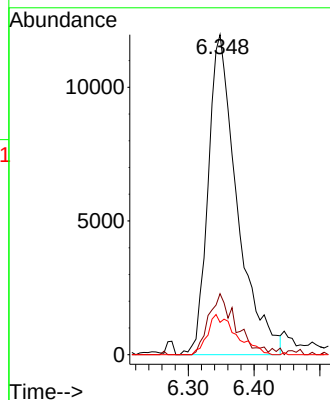
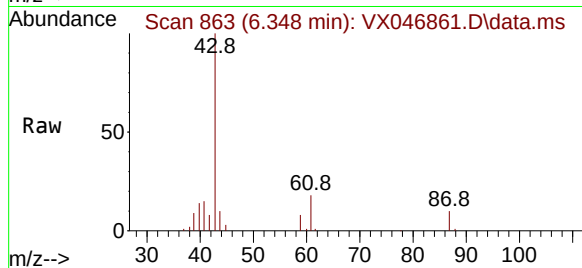
VSTDIC005

Tgt Ion:	43	Resp:	3668
Ion Ratio	Lower	Upper	
43	100		
61	17.9	15.7	23.5
87	12.4	10.1	15.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#44

Trichloroethene

Concen: 5.227 ug/l

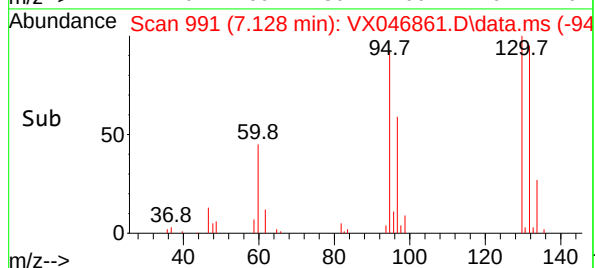
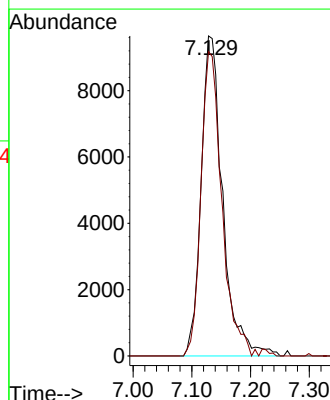
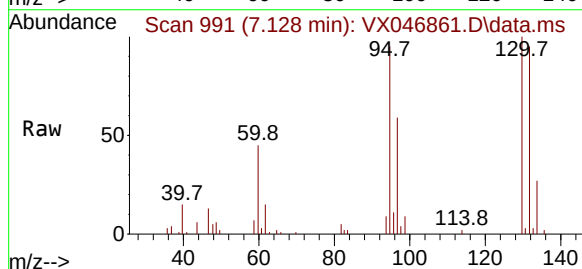
RT: 7.128 min Scan# 991

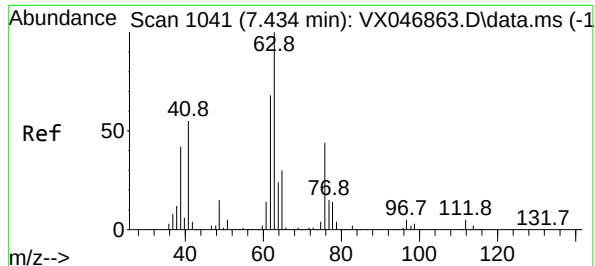
Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Tgt Ion:	130	Resp:	24587
Ion Ratio	Lower	Upper	
130	100		
95	95.1	0.0	194.2





#45

1,2-Dichloropropane

Concen: 4.863 ug/l

RT: 7.433 min Scan# 1041

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 2220

Ion Ratio Lower Upper

63 100

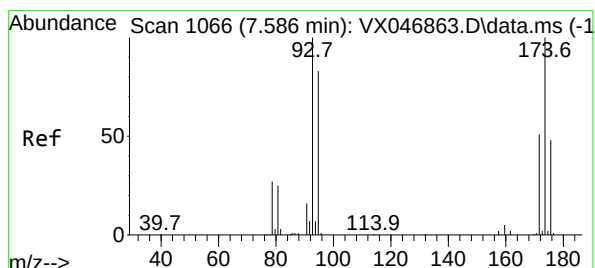
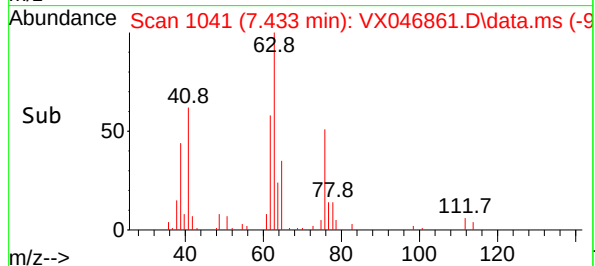
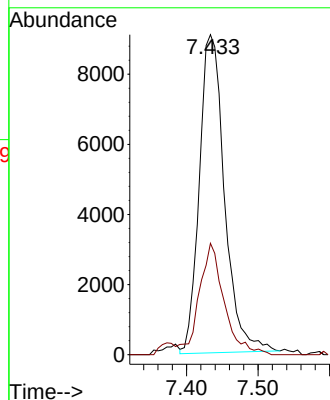
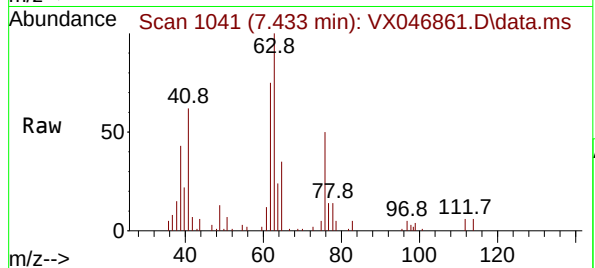
65 35.2 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#46

Dibromomethane

Concen: 5.063 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

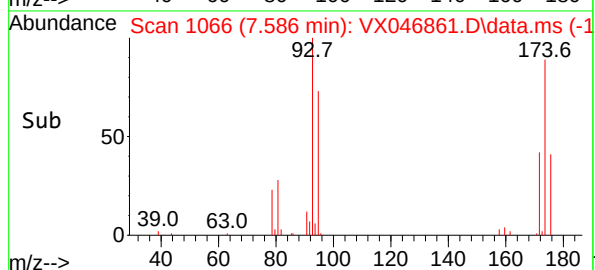
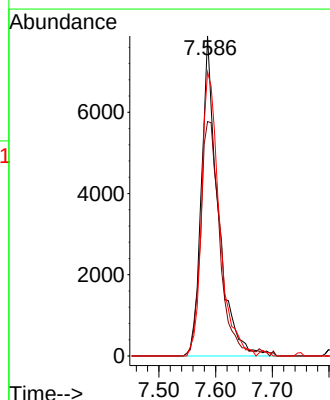
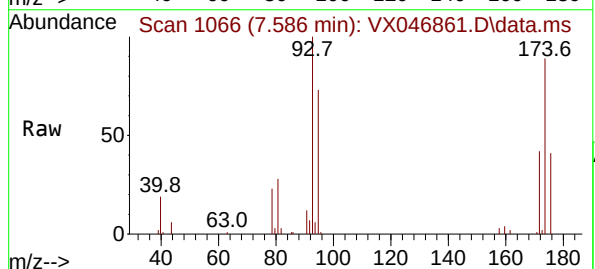
Tgt Ion: 93 Resp: 16018

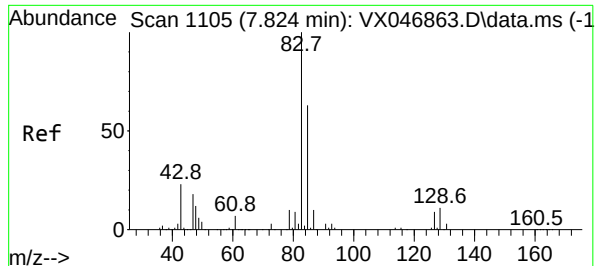
Ion Ratio Lower Upper

93 100

95 84.3 66.6 99.8

174 95.1 77.4 116.2





#47

Bromodichloromethane

Concen: 4.907 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

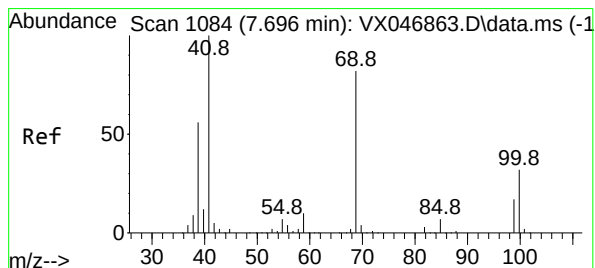
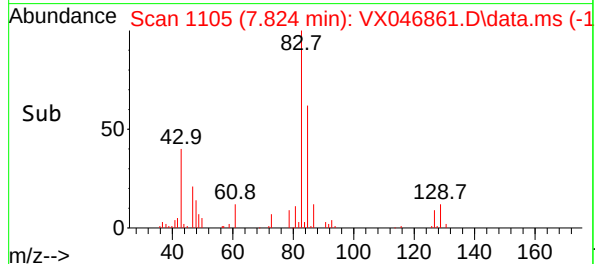
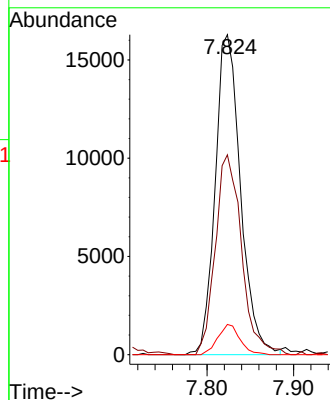
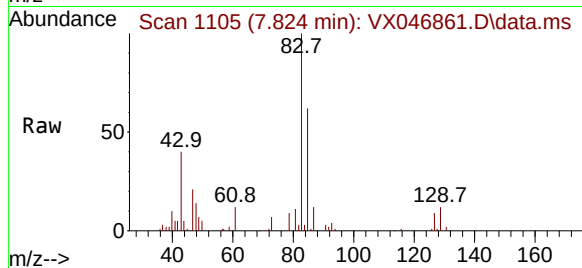
VSTDIC005

Tgt Ion:	83	Resp:	3314
Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.2	75.4
127	9.4	7.1	10.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#48

Methyl methacrylate

Concen: 4.762 ug/l

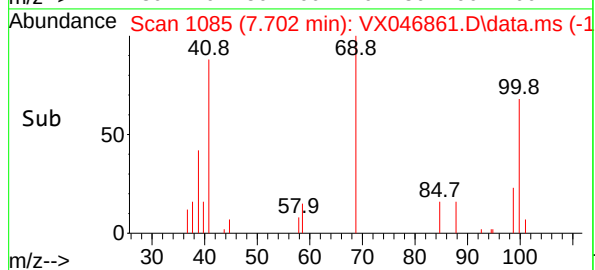
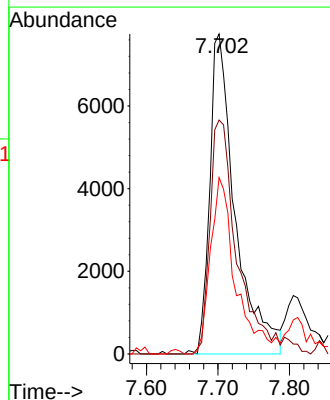
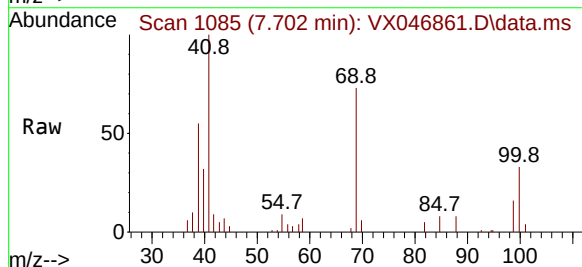
RT: 7.702 min Scan# 1085

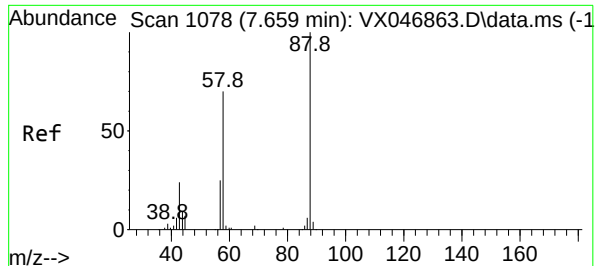
Delta R.T. 0.006 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Tgt Ion:	41	Resp:	19166
Ion	Ratio	Lower	Upper
41	100		
69	79.8	65.8	98.8
39	53.6	43.8	65.6





#49

1,4-Dioxane

Concen: 99.650 ug/l

RT: 7.671 min Scan# 1080

Delta R.T. 0.012 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

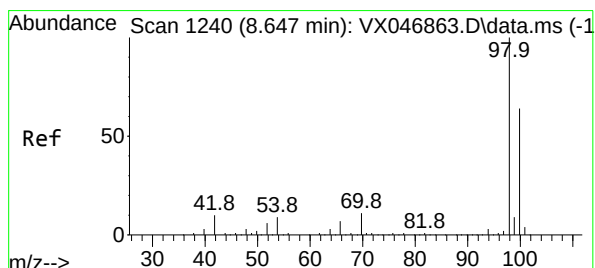
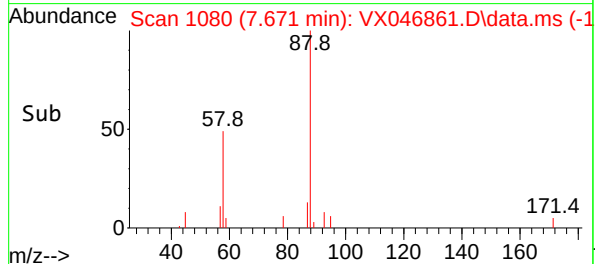
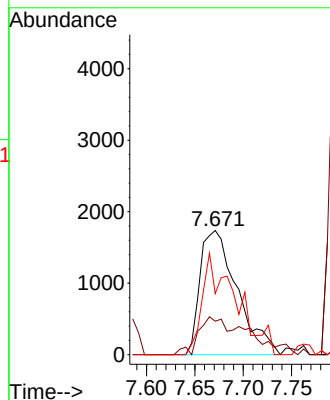
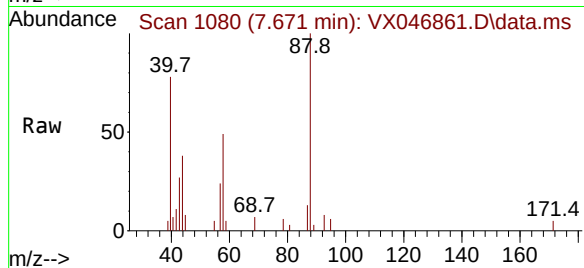
Tgt Ion:	88	Resp:	464
Ion	Ratio	Lower	Upper
88	100		
43	24.3	31.7	47.5
58	74.0	57.5	86.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#50

Toluene-d8

Concen: 5.335 ug/l

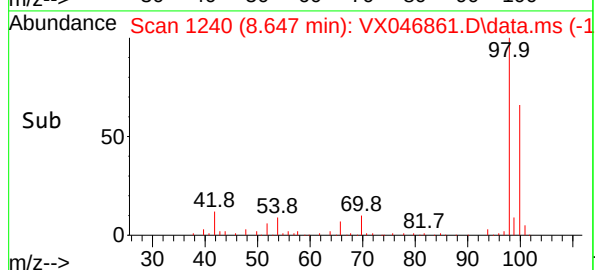
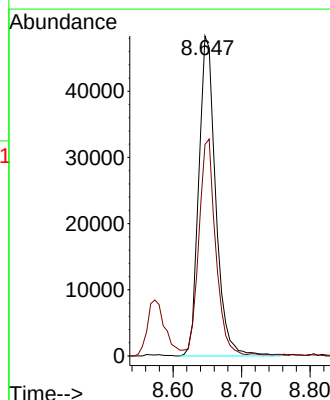
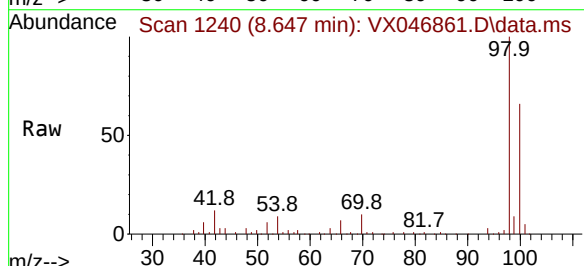
RT: 8.647 min Scan# 1240

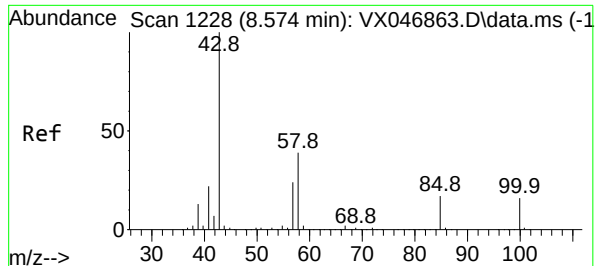
Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Tgt Ion:	98	Resp:	83349
Ion	Ratio	Lower	Upper
98	100		
100	66.6	53.0	79.6





#51

4-Methyl-2-Pentanone

Concen: 24.096 ug/l

RT: 8.573 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 11084

Ion Ratio Lower Upper

43 100

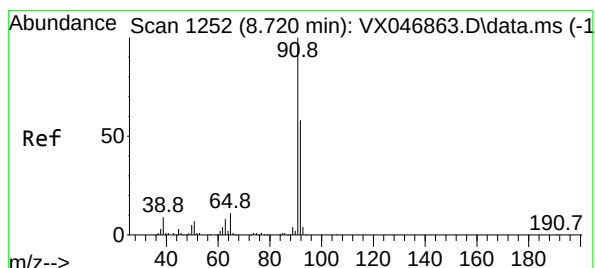
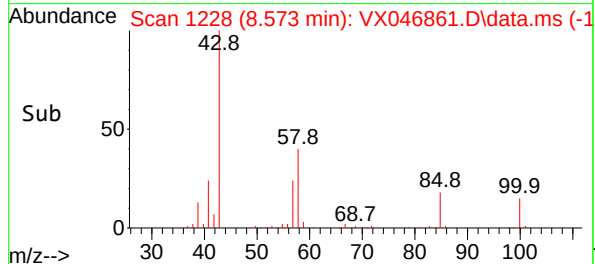
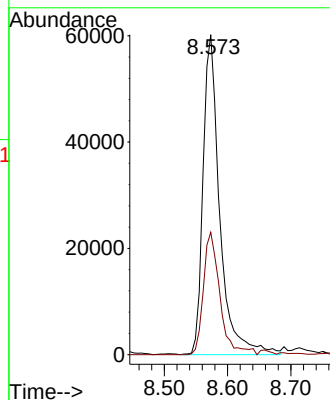
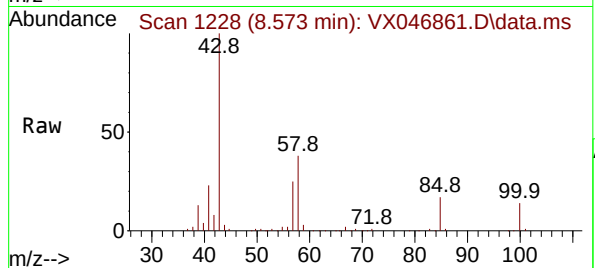
58 37.7 30.4 45.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#52

Toluene

Concen: 5.206 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. -0.000 min

Lab File: VX046861.D

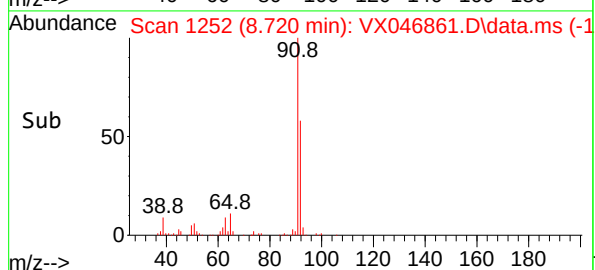
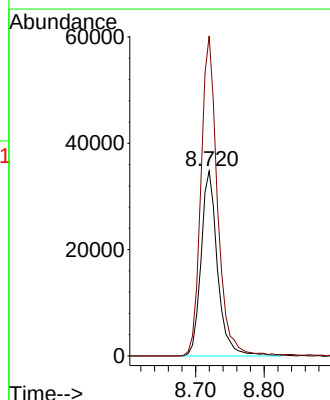
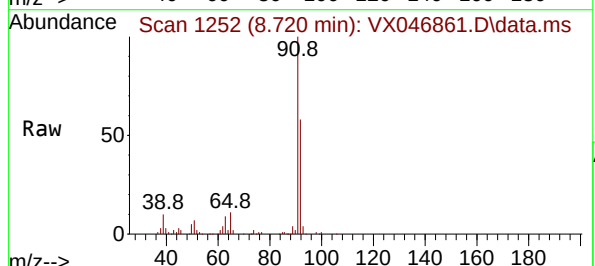
Acq: 02 Jul 2025 12:37

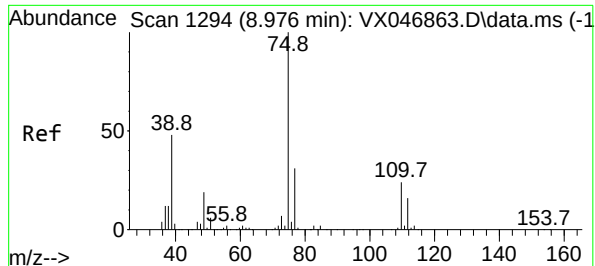
Tgt Ion: 92 Resp: 58295

Ion Ratio Lower Upper

92 100

91 174.2 137.9 206.9





#53

t-1,3-Dichloropropene

Concen: 4.668 ug/l

RT: 8.982 min Scan# 1129

Delta R.T. 0.006 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 2814

Ion Ratio Lower Upper

75 100

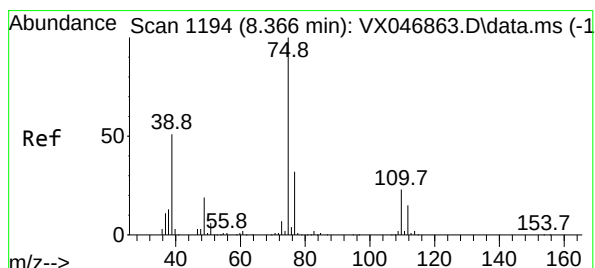
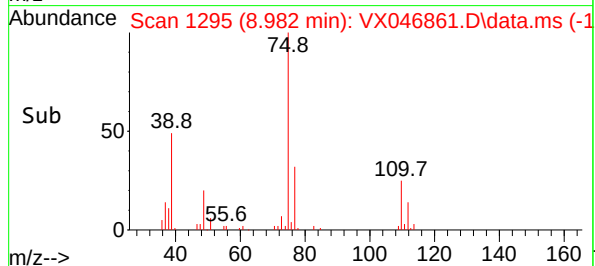
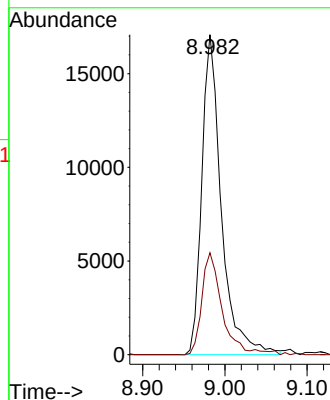
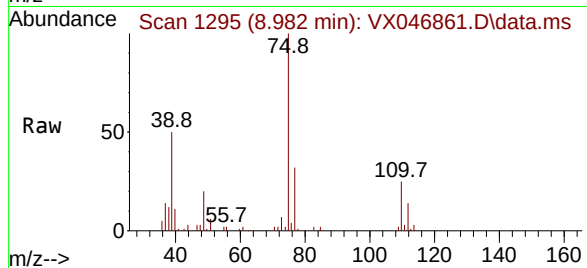
77 31.9 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#54

cis-1,3-Dichloropropene

Concen: 4.732 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

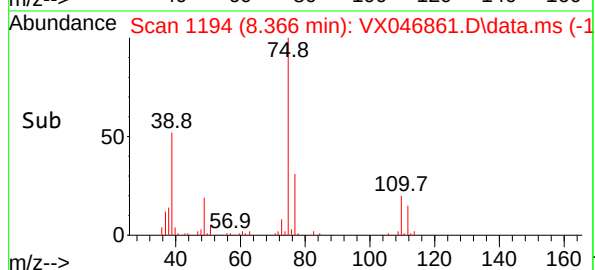
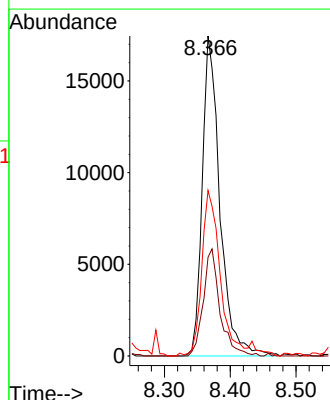
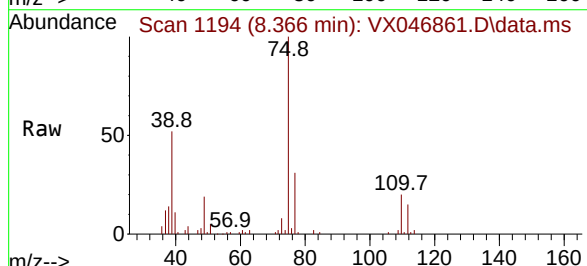
Tgt Ion: 75 Resp: 32562

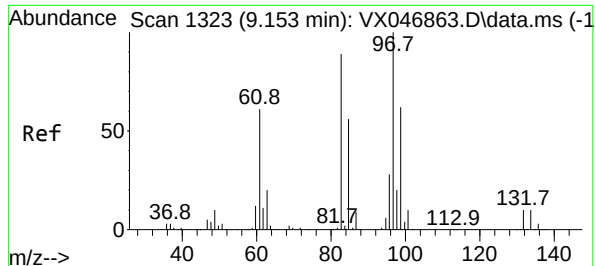
Ion Ratio Lower Upper

75 100

77 30.9 25.4 38.2

39 42.4 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 5.138 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 2143

Ion Ratio Lower Upper

97 100

83 93.5 70.9 106.3

85 54.9 44.6 67.0

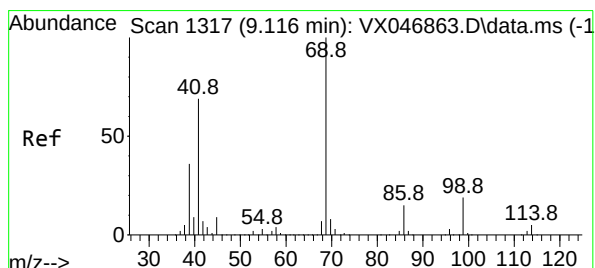
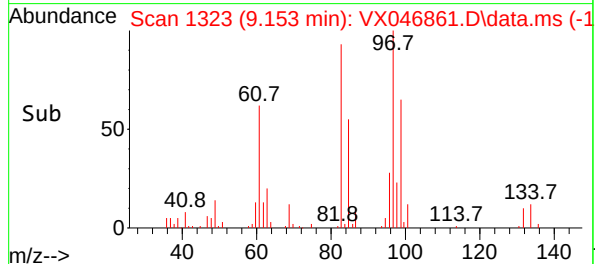
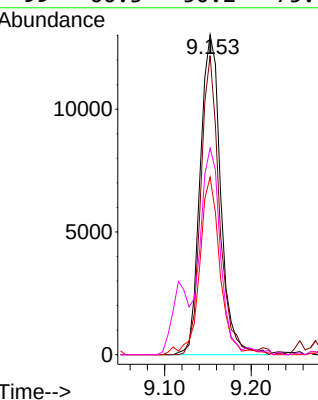
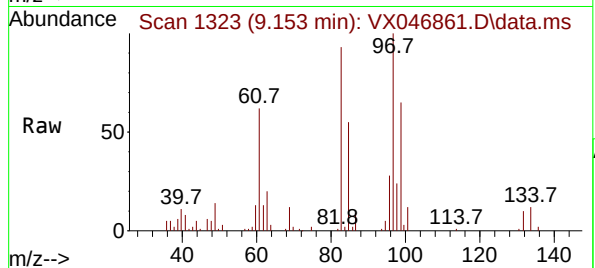
99 66.3 50.2 75.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#56

Ethyl methacrylate

Concen: 4.619 ug/l

RT: 9.122 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

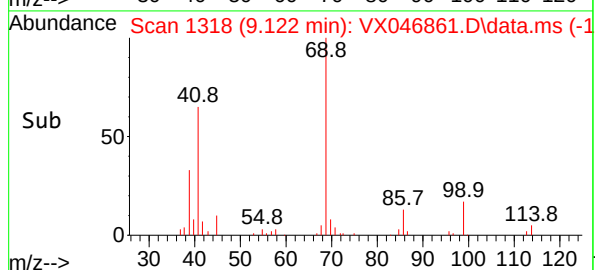
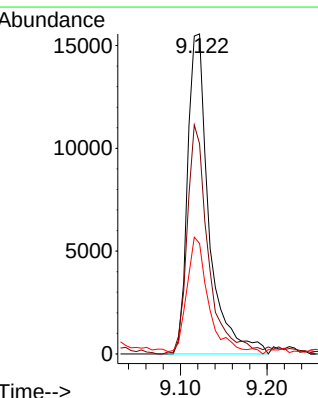
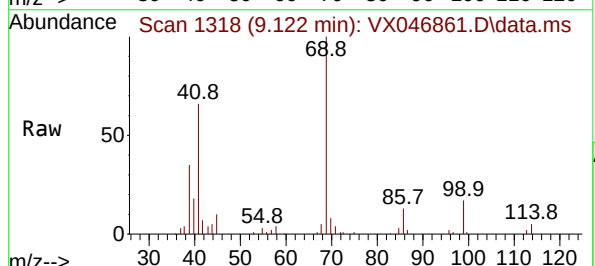
Tgt Ion: 69 Resp: 26665

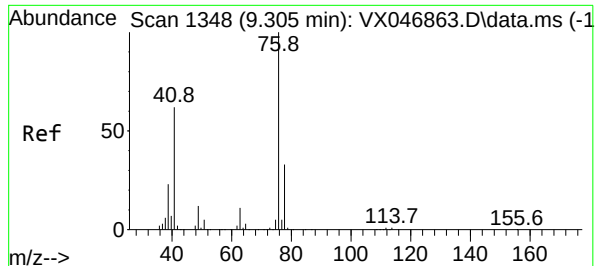
Ion Ratio Lower Upper

69 100

41 70.7 54.6 82.0

39 38.0 28.7 43.1





#57

1,3-Dichloropropane

Concen: 5.152 ug/l

RT: 9.311 min Scan# 1349

Delta R.T. 0.006 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 37000

Ion Ratio Lower Upper

76 100

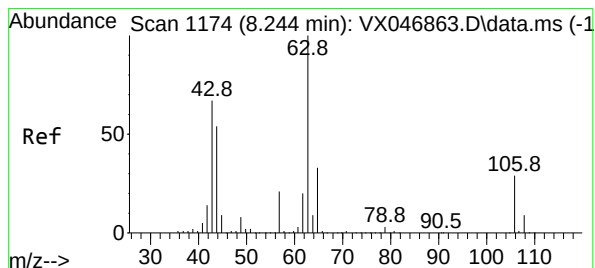
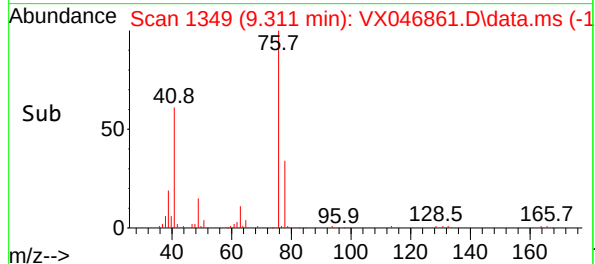
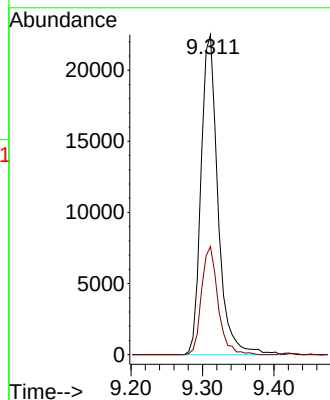
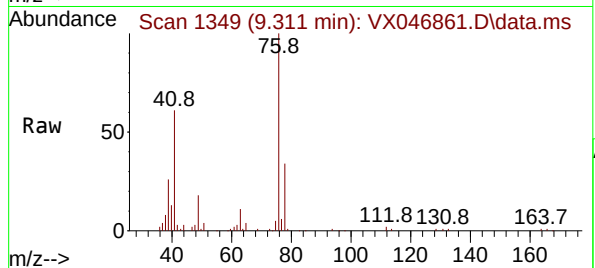
78 32.9 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#58

2-Chloroethyl Vinyl ether

Concen: 23.583 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. -0.000 min

Lab File: VX046861.D

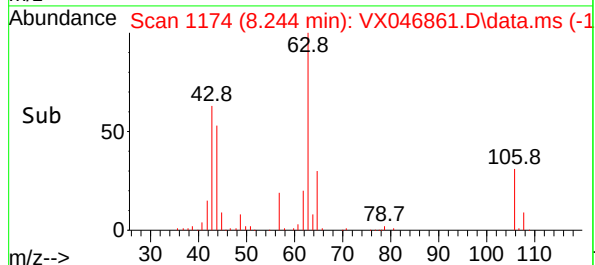
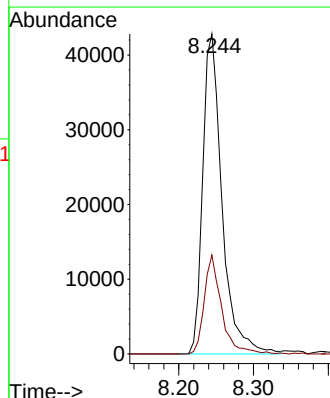
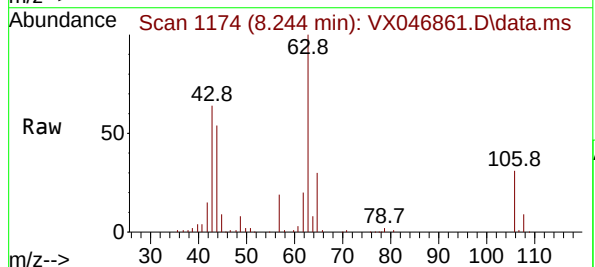
Acq: 02 Jul 2025 12:37

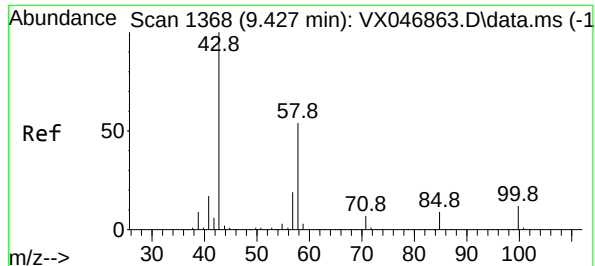
Tgt Ion: 63 Resp: 76711

Ion Ratio Lower Upper

63 100

106 27.8 22.6 33.8





#59

2-Hexanone

Concen: 24.251 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 7399

Ion Ratio Lower Upper

43 100

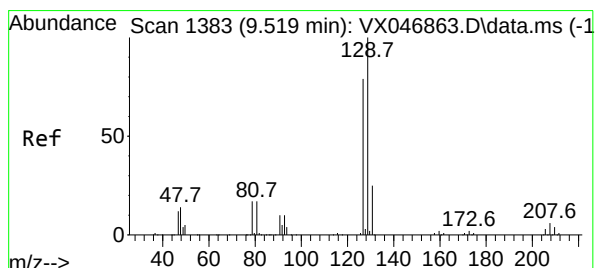
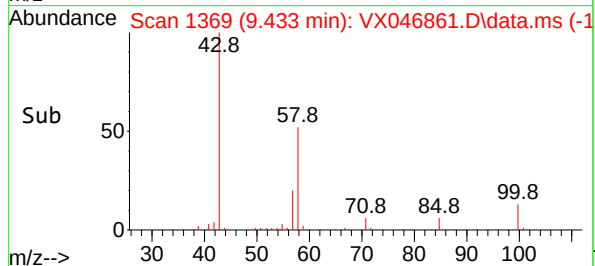
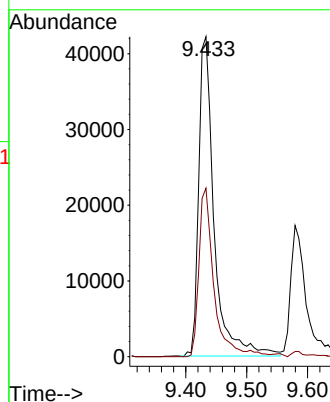
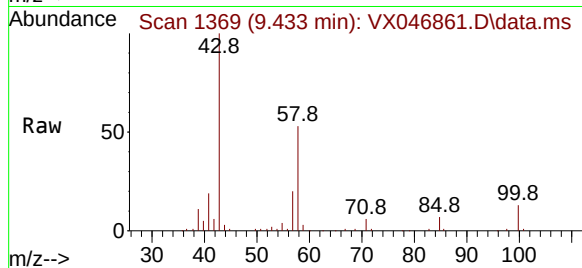
58 50.1 27.1 81.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#60

Dibromochloromethane

Concen: 5.101 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX046861.D

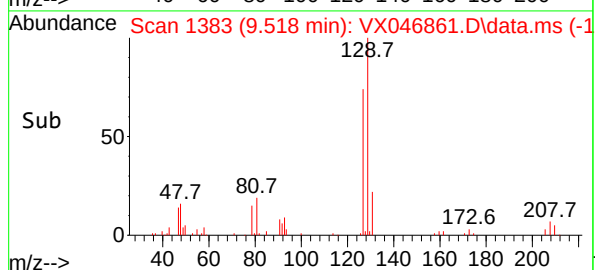
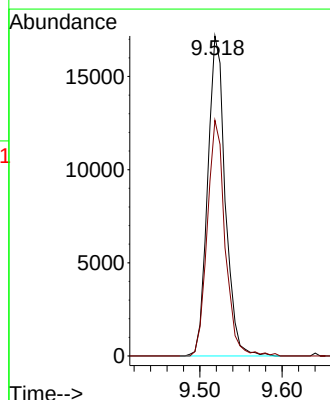
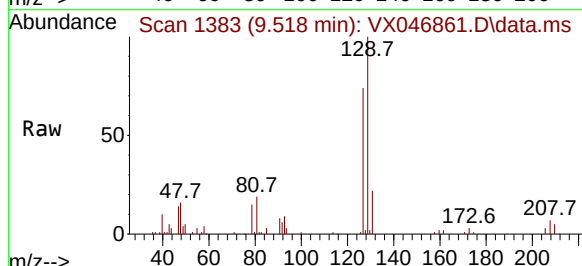
Acq: 02 Jul 2025 12:37

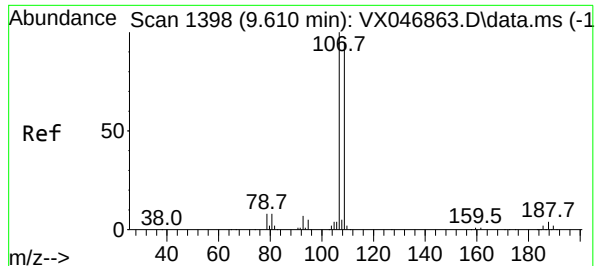
Tgt Ion:129 Resp: 25465

Ion Ratio Lower Upper

129 100

127 74.8 39.1 117.5





#61

1,2-Dibromoethane

Concen: 4.940 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:107 Resp: 2069

Ion Ratio Lower Upper

107 100

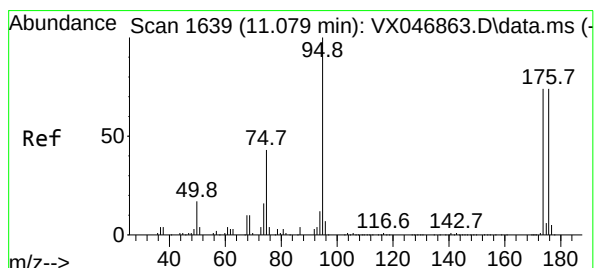
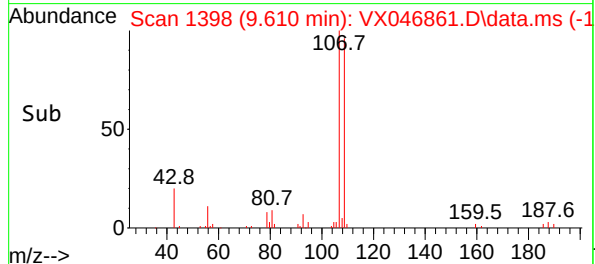
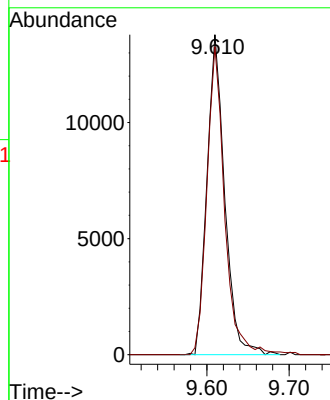
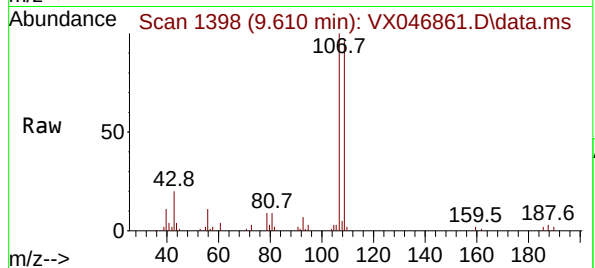
109 96.4 75.4 113.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#62

4-Bromofluorobenzene

Concen: 5.415 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

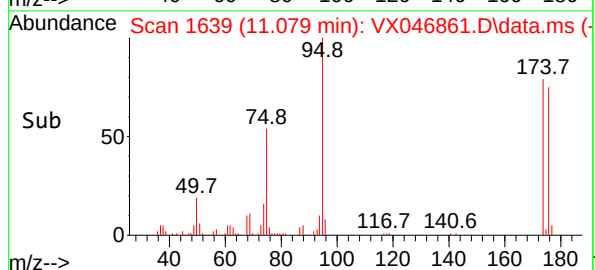
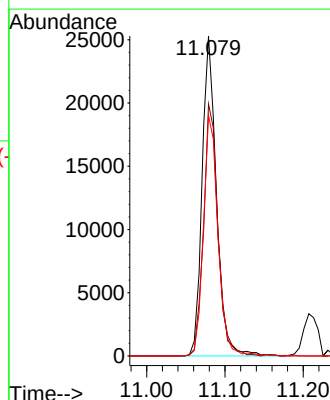
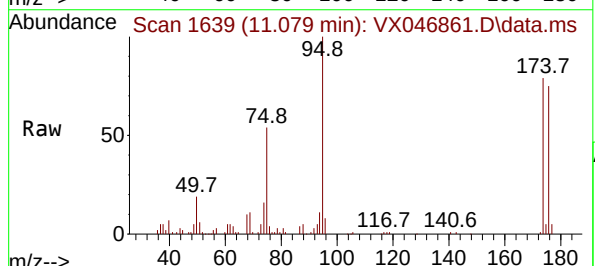
Tgt Ion: 95 Resp: 32156

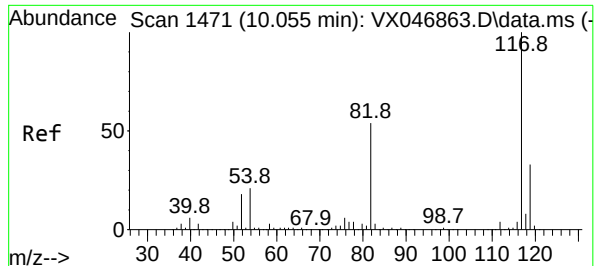
Ion Ratio Lower Upper

95 100

174 78.9 0.0 152.0

176 76.4 0.0 145.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1471

Delta R.T. -0.006 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

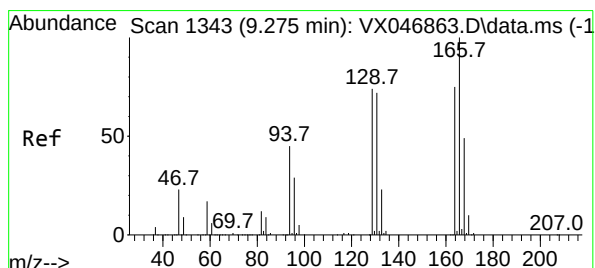
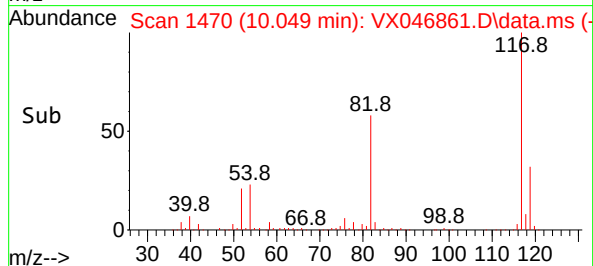
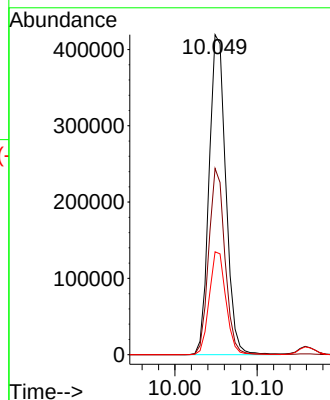
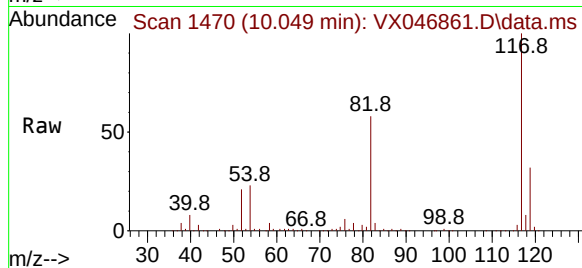
VSTDIC005

Tgt Ion:	117	Resp:	59222
Ion Ratio	Lower	Upper	
117	100		
82	58.2	43.3	64.9
119	32.2	26.4	39.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#64

Tetrachloroethene

Concen: 5.203 ug/l

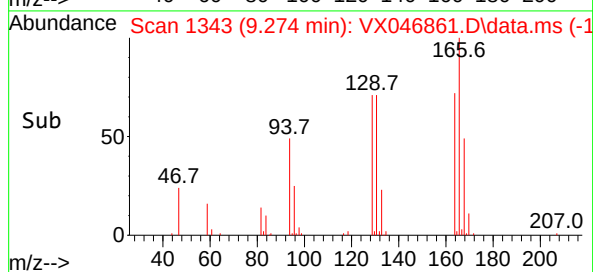
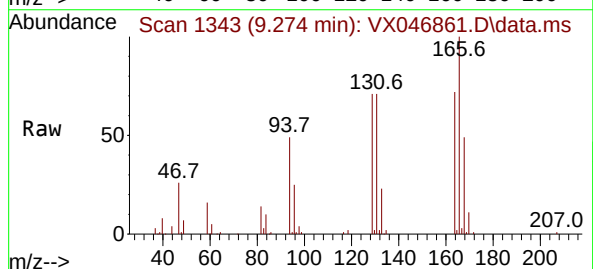
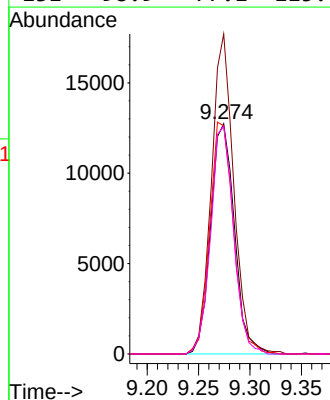
RT: 9.274 min Scan# 1343

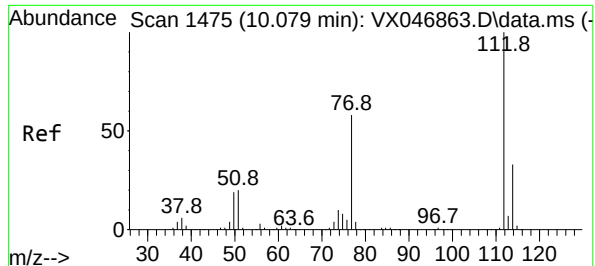
Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Tgt Ion:	164	Resp:	20514
Ion Ratio	Lower	Upper	
164	100		
166	138.9	107.0	160.6
129	99.1	79.7	119.5
131	98.9	77.1	115.7





#65

Chlorobenzene

Concen: 5.166 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:112 Resp: 6614

Ion Ratio Lower Upper

112 100

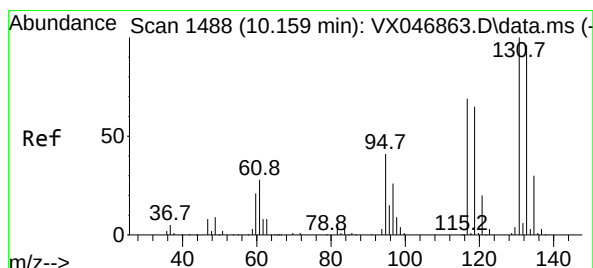
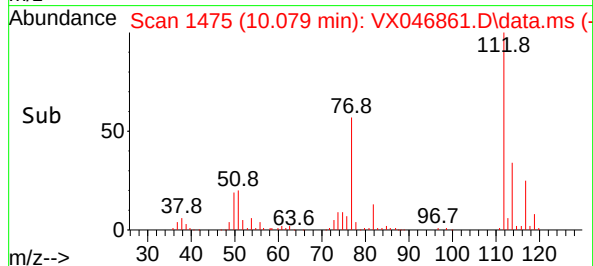
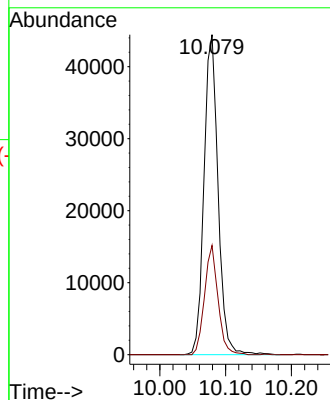
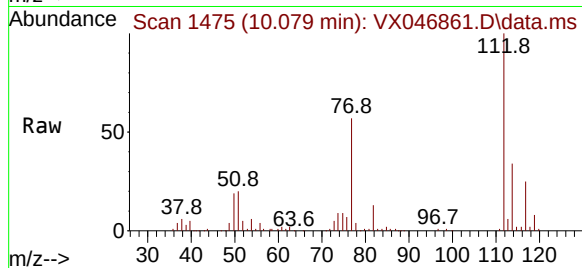
114 34.2 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 4.770 ug/l

RT: 10.158 min Scan# 1488

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

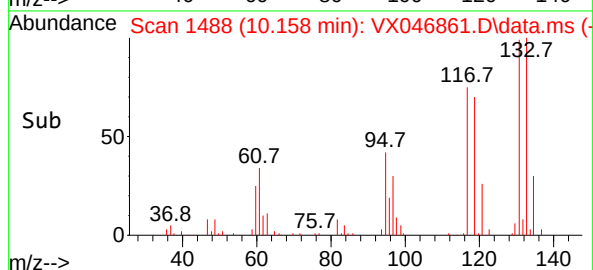
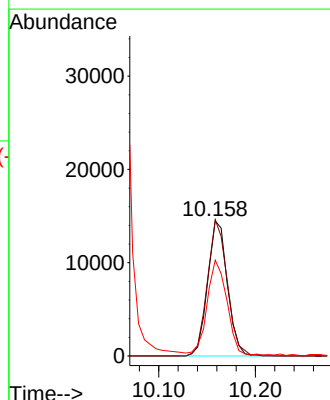
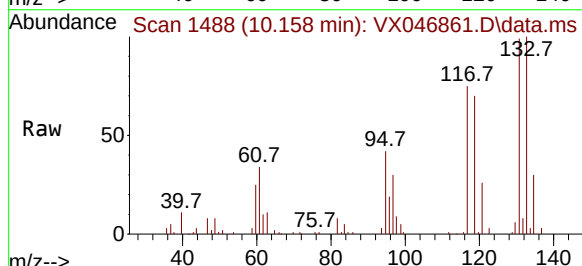
Tgt Ion:131 Resp: 20533

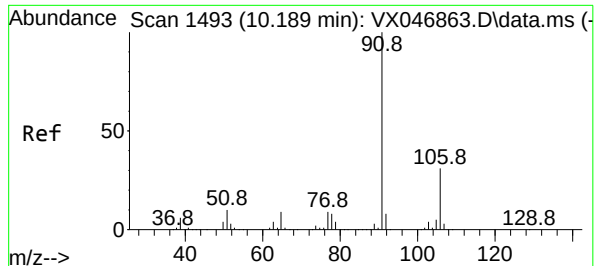
Ion Ratio Lower Upper

131 100

133 101.0 47.6 142.9

119 70.2 32.4 97.2





#67

Ethyl Benzene

Concen: 5.046 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.006 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 11063

Ion Ratio Lower Upper

91 100

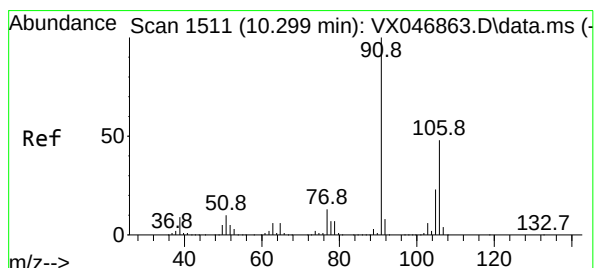
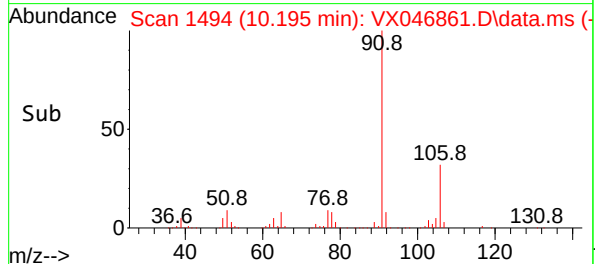
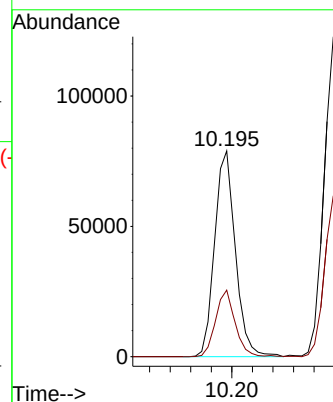
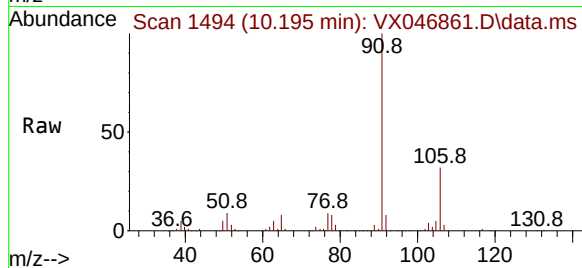
106 32.4 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#68

m/p-Xylenes

Concen: 10.176 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX046861.D

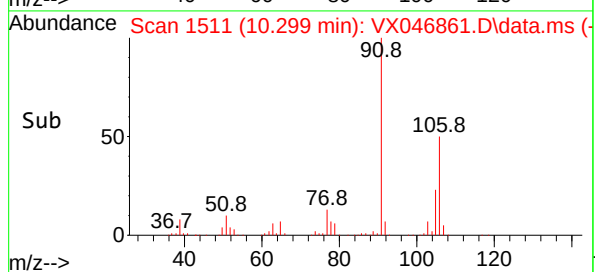
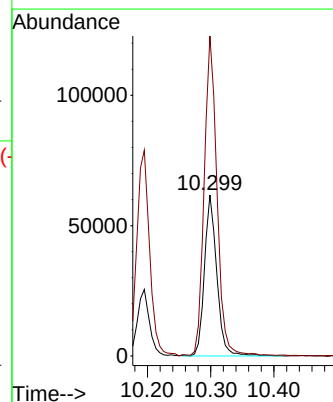
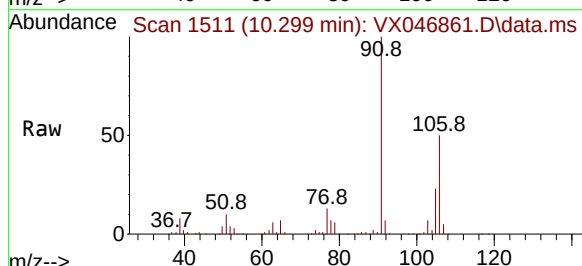
Acq: 02 Jul 2025 12:37

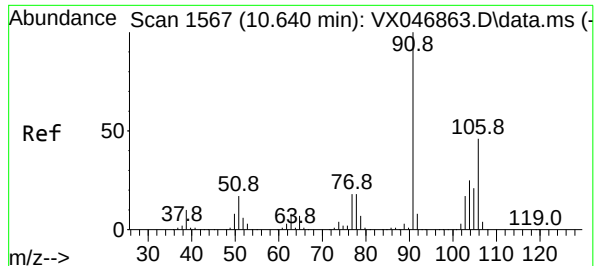
Tgt Ion:106 Resp: 84083

Ion Ratio Lower Upper

106 100

91 205.3 164.6 246.8





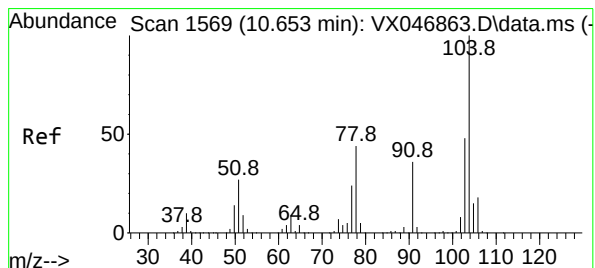
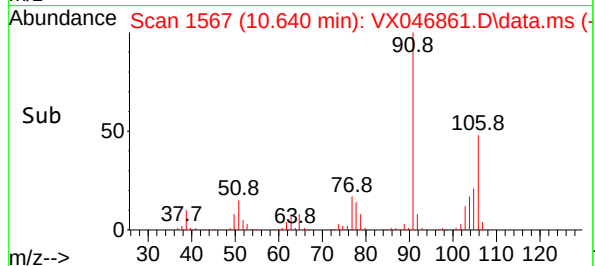
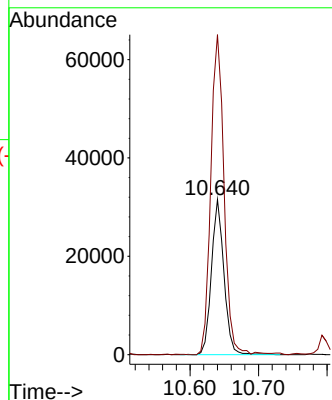
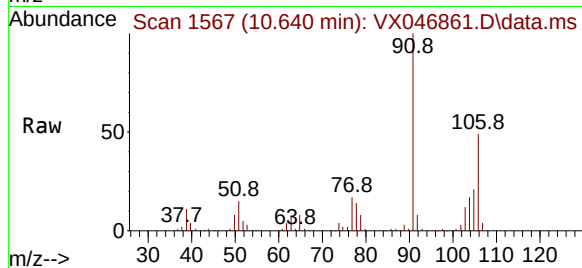
#69
o-Xylene
Concen: 5.021 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 40078
Ion Ratio Lower Upper
106 100
91 217.4 109.5 328.5

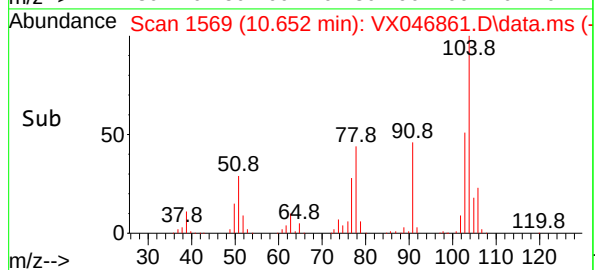
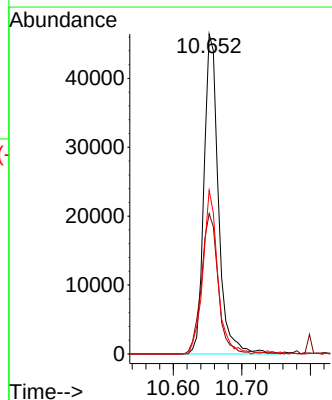
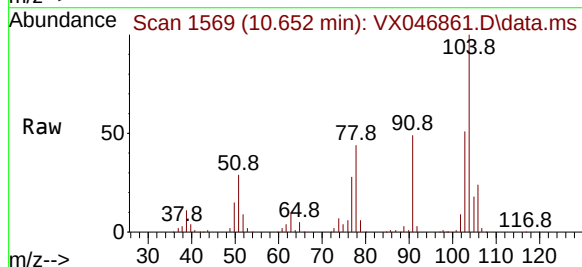
Manual Integrations
APPROVED

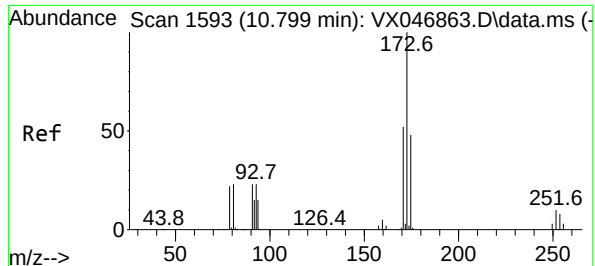
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#70
Styrene
Concen: 4.998 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

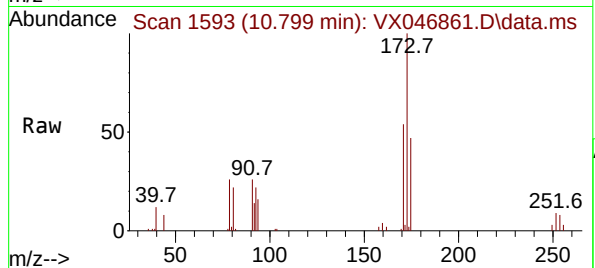
Tgt Ion:104 Resp: 68250
Ion Ratio Lower Upper
104 100
78 51.1 40.3 60.5
103 52.6 42.8 64.2





#71
Bromoform
Concen: 4.831 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

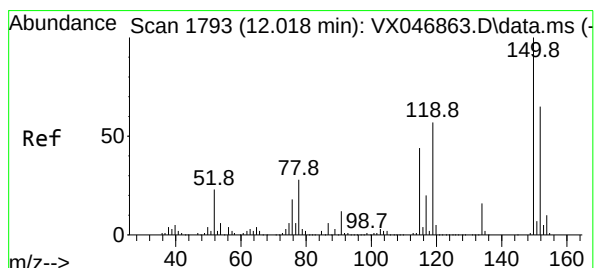
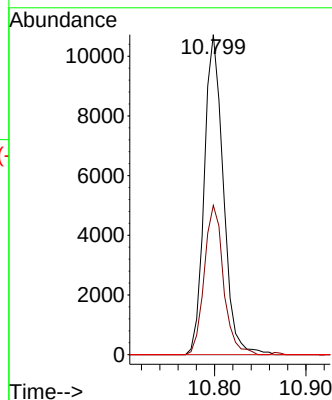
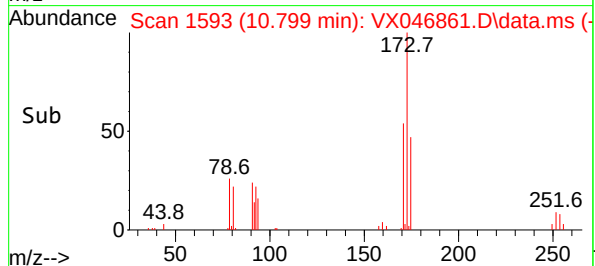
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:173 Resp: 1546
Ion Ratio Lower Upper
173 100
175 47.1 23.8 71.5
254 0.0 0.1 0.1

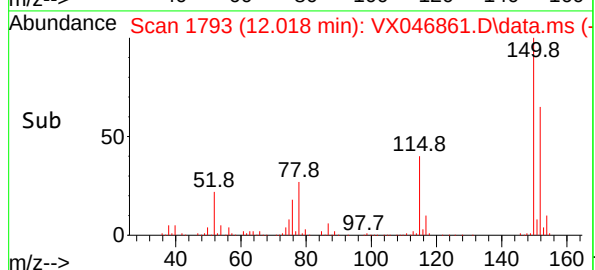
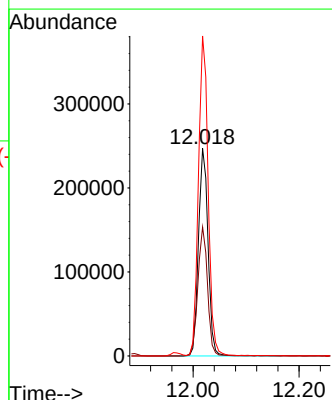
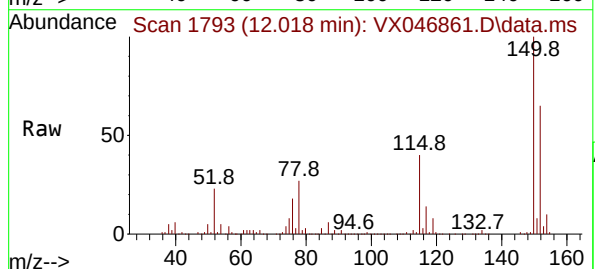
Manual Integrations
APPROVED

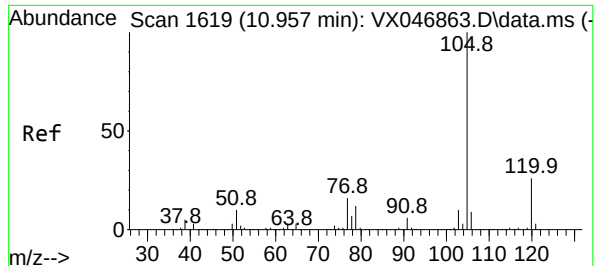
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Tgt Ion:152 Resp: 309407
Ion Ratio Lower Upper
152 100
115 62.9 42.4 127.1
150 155.9 0.0 349.2





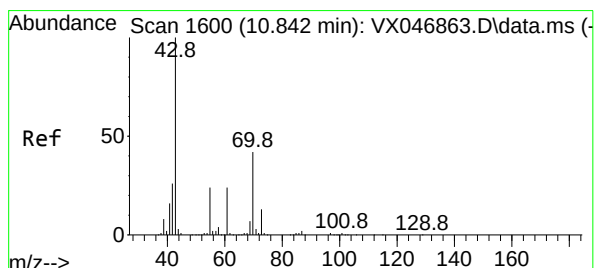
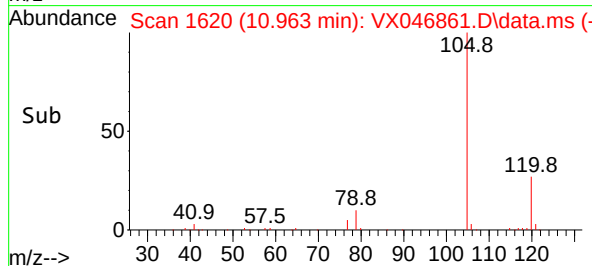
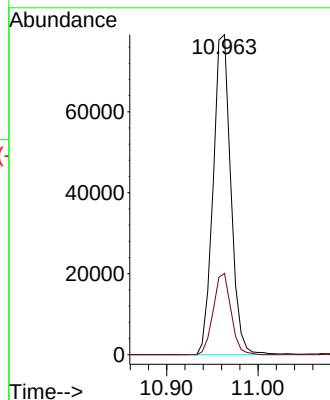
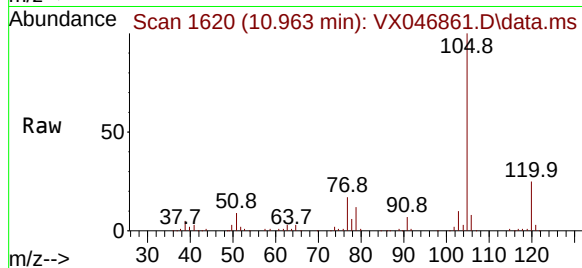
#73
Isopropylbenzene
Concen: 4.876 ug/l
RT: 10.963 min Scan# 1619
Delta R.T. 0.006 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 105 Resp: 10606
Ion Ratio Lower Upper
105 100
120 25.5 13.2 39.5

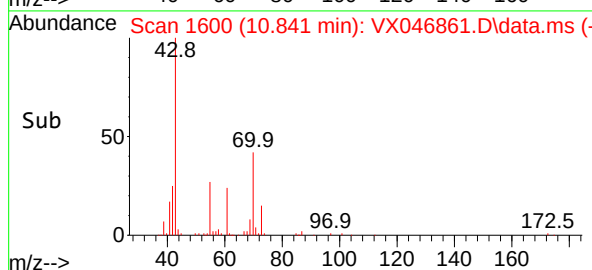
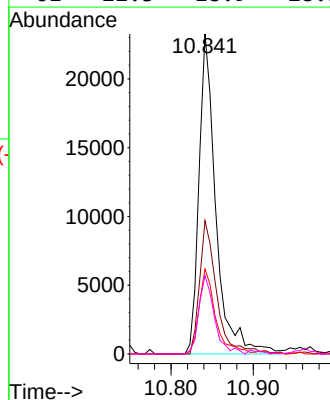
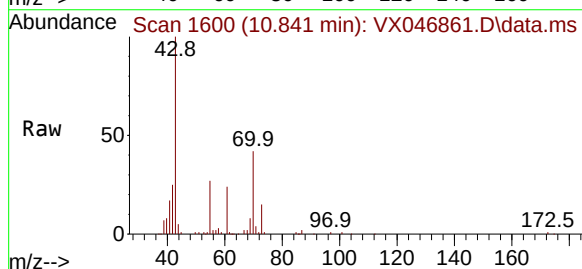
Manual Integrations
APPROVED

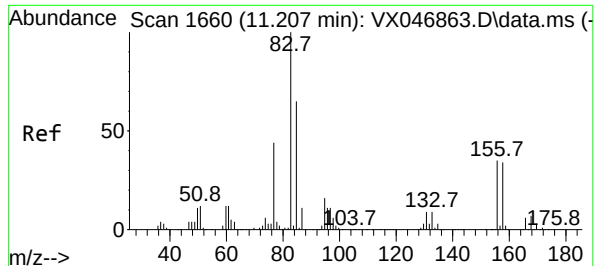
Reviewed By : John Carlone 07/03/2025
Supervised By : Mahesh Dadoda 07/03/2025



#74
N-ethyl acetate
Concen: 4.517 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Tgt Ion: 43 Resp: 33387
Ion Ratio Lower Upper
43 100
70 42.0 33.4 50.2
55 25.9 19.6 29.4
61 22.3 18.9 28.3





#75

1,1,2,2-Tetrachloroethane

Concen: 4.905 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 2933

Ion Ratio Lower Upper

83 100

131 10.6 5.0 14.9

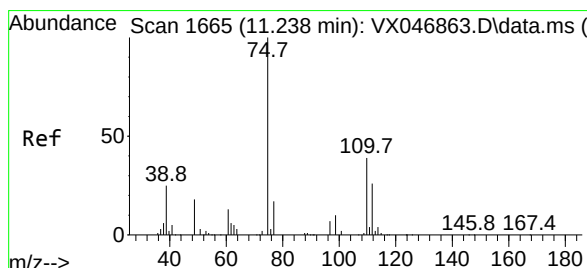
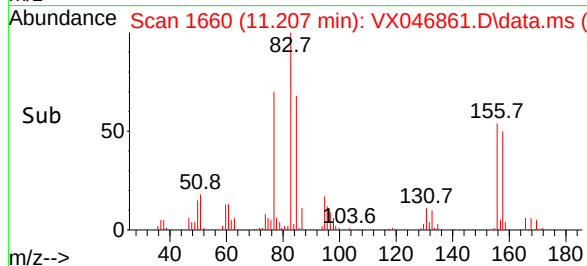
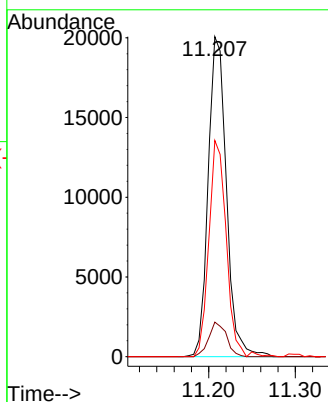
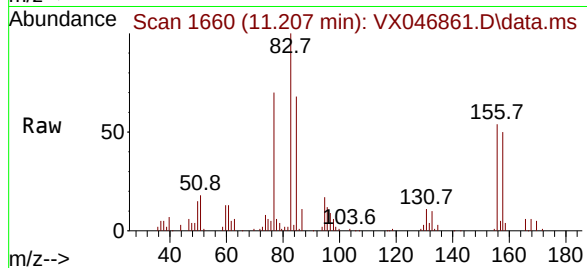
85 64.5 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#76

1,2,3-Trichloropropane

Concen: 4.660 ug/l m

RT: 11.238 min Scan# 1665

Delta R.T. -0.000 min

Lab File: VX046861.D

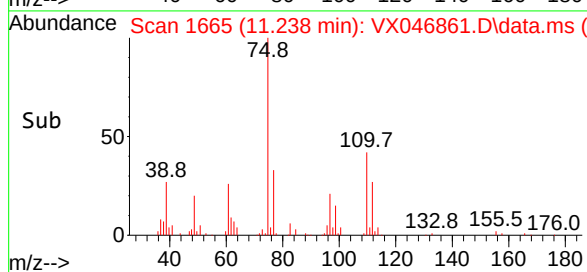
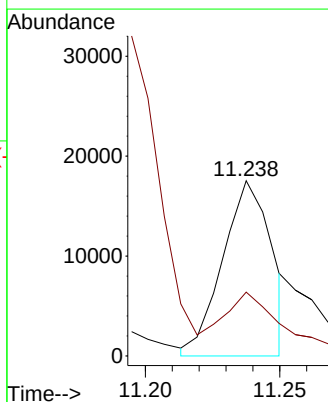
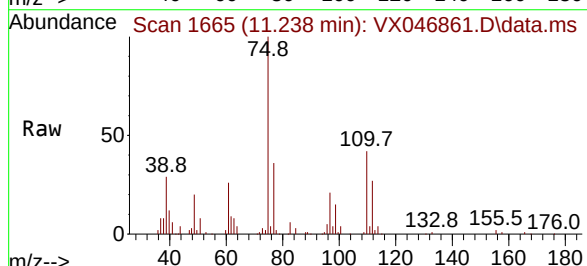
Acq: 02 Jul 2025 12:37

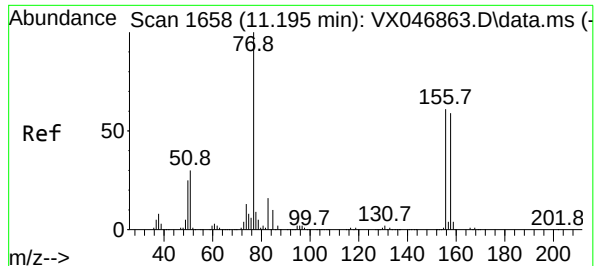
Tgt Ion: 75 Resp: 22279

Ion Ratio Lower Upper

75 100

77 47.2 20.6 61.8





#77

Bromobenzene

Concen: 5.082 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

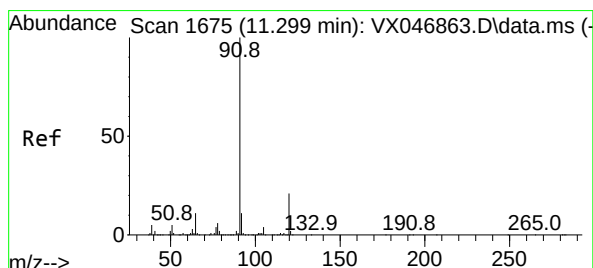
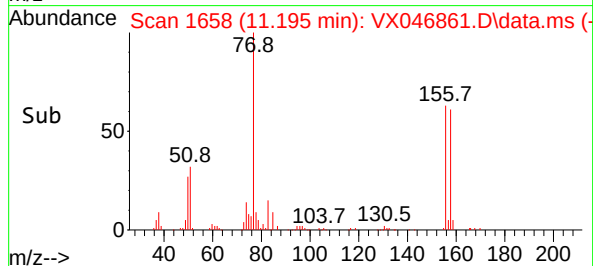
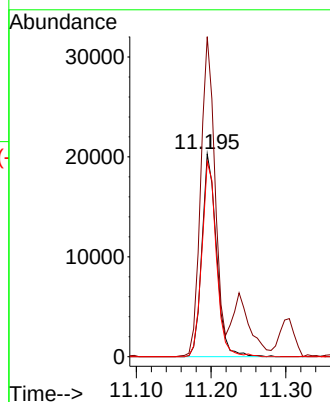
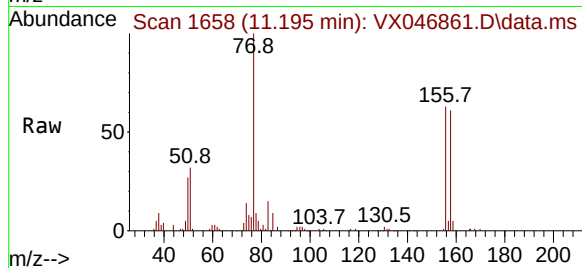
VSTDIC005

Tgt Ion:	156	Resp:	27534
Ion Ratio	Lower	Upper	
156	100		
77	154.6	82.3	247.0
158	96.0	47.5	142.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#78

n-propylbenzene

Concen: 4.982 ug/l

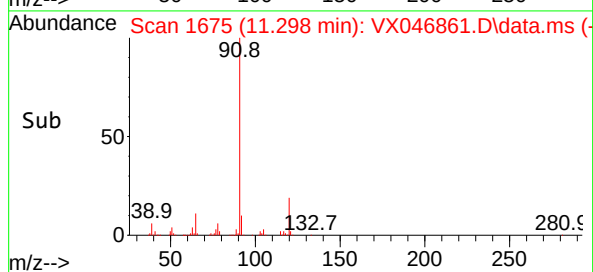
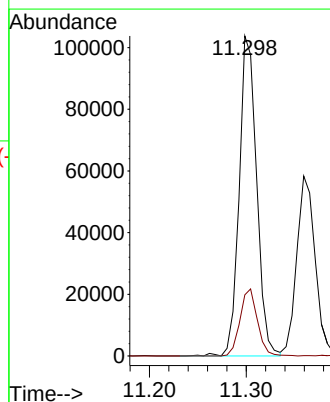
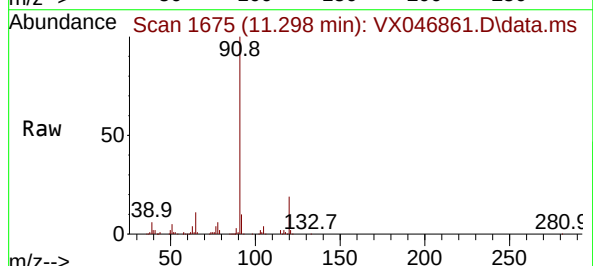
RT: 11.298 min Scan# 1675

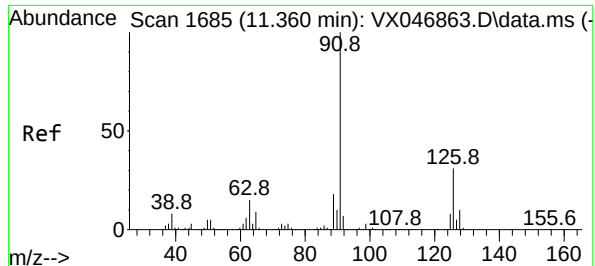
Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Tgt Ion:	91	Resp:	130658
Ion Ratio	Lower	Upper	
91	100		
120	20.9	11.2	33.5





#79

2-Chlorotoluene

Concen: 5.042 ug/l

RT: 11.359 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 91 Resp: 7807

Ion Ratio Lower Upper

91 100

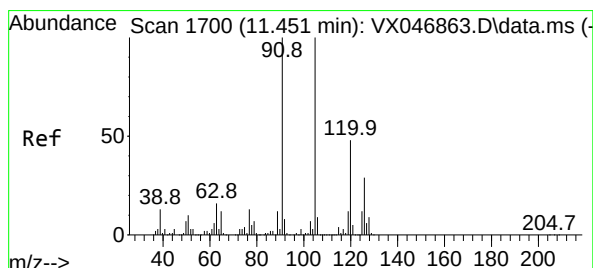
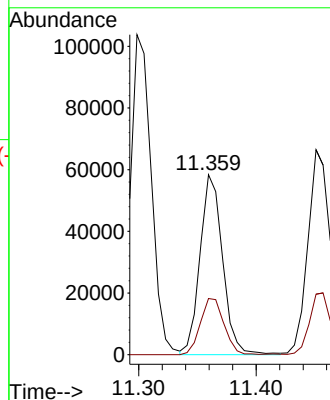
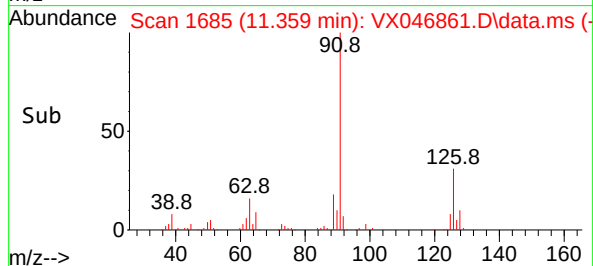
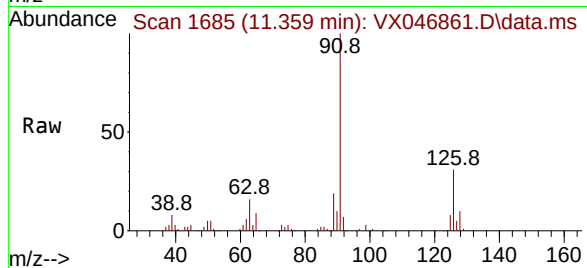
126 32.5 16.6 49.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#80

1,3,5-Trimethylbenzene

Concen: 4.867 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX046861.D

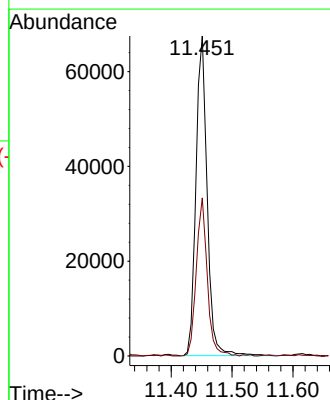
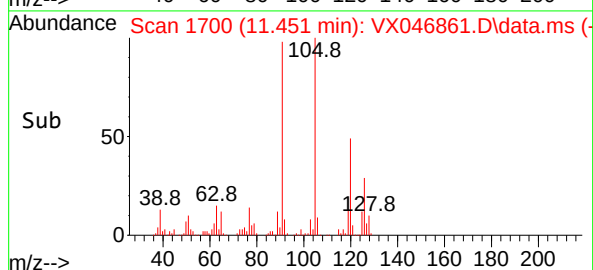
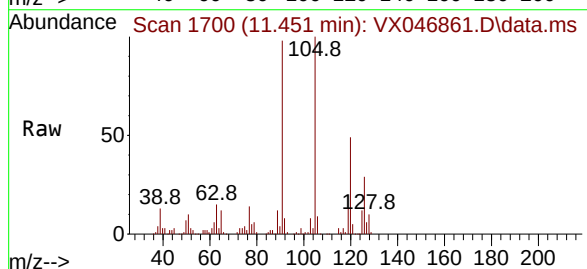
Acq: 02 Jul 2025 12:37

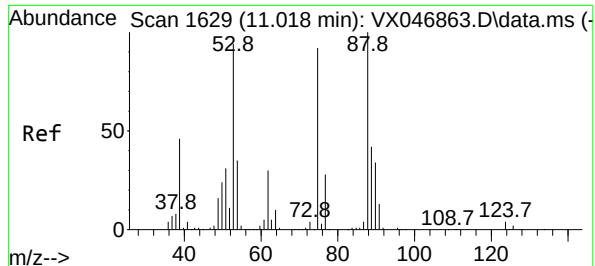
Tgt Ion:105 Resp: 86020

Ion Ratio Lower Upper

105 100

120 48.5 24.1 72.4





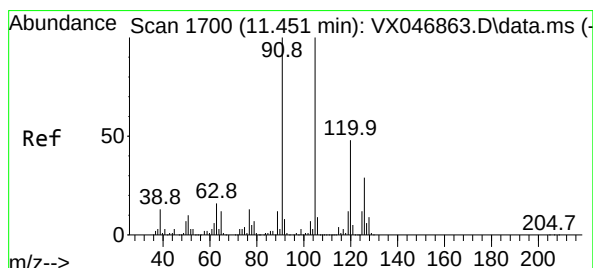
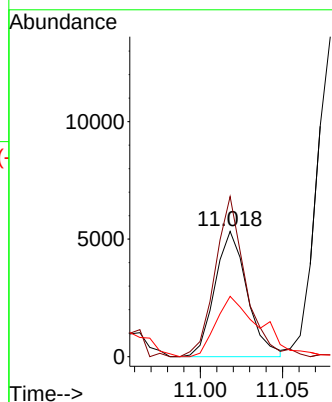
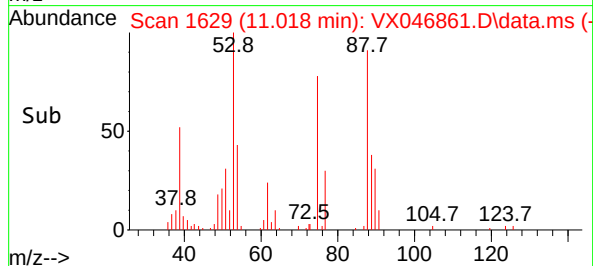
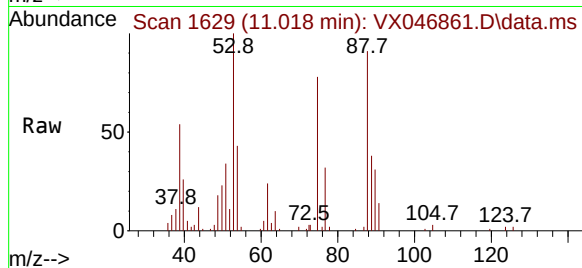
#81
trans-1,4-Dichloro-2-butene
Concen: 4.100 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 75 Resp: 7304
Ion Ratio Lower Upper
75 100
53 120.6 83.7 125.5
89 66.3 38.2 57.2

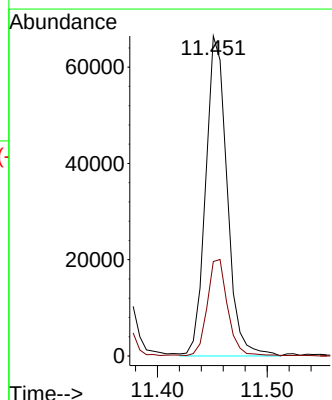
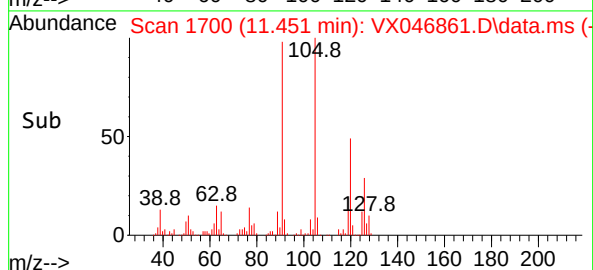
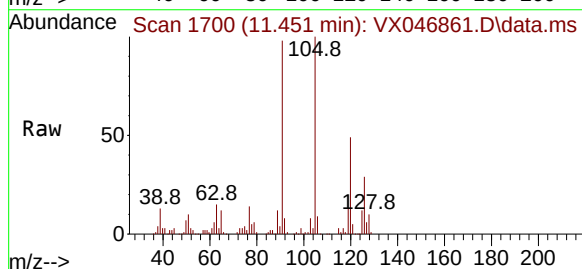
Manual Integrations
APPROVED

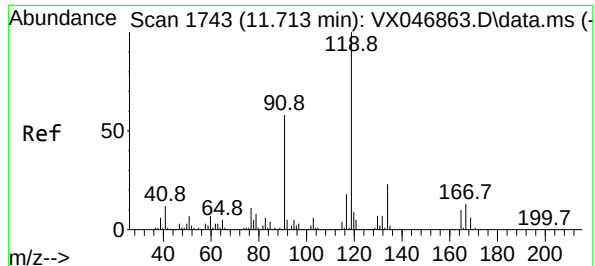
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#82
4-Chlorotoluene
Concen: 5.049 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Tgt Ion: 91 Resp: 90236
Ion Ratio Lower Upper
91 100
126 29.0 14.6 44.0





#83

tert-Butylbenzene

Concen: 4.876 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

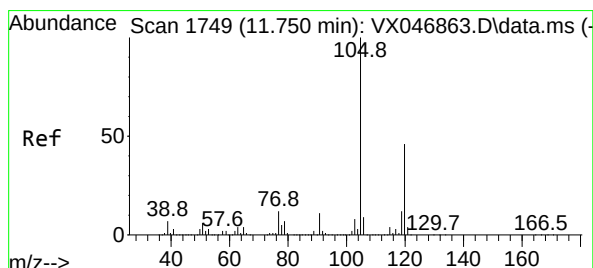
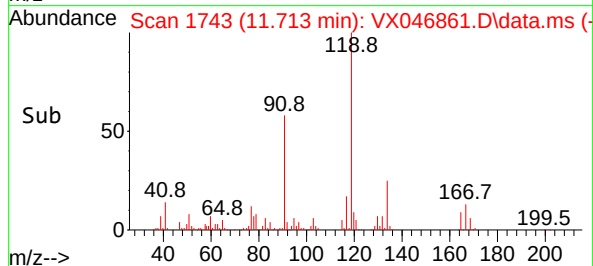
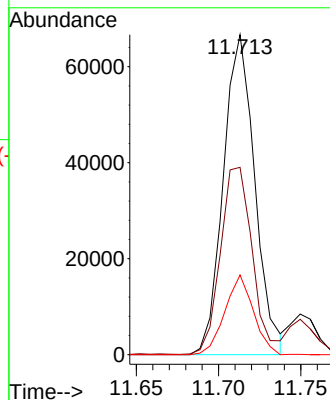
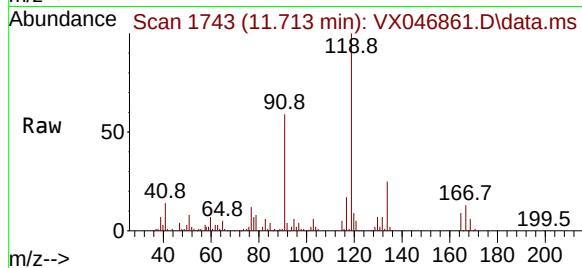
VSTDIC005

Tgt Ion:	119	Resp:	88998
Ion	Ratio	Lower	Upper
119	100		
91	59.2	28.7	86.3
134	22.6	11.4	34.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#84

1,2,4-Trimethylbenzene

Concen: 4.975 ug/l

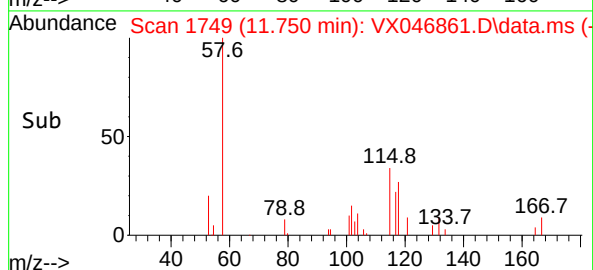
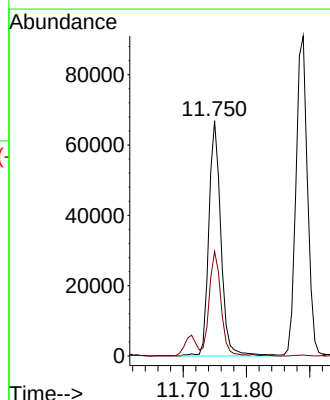
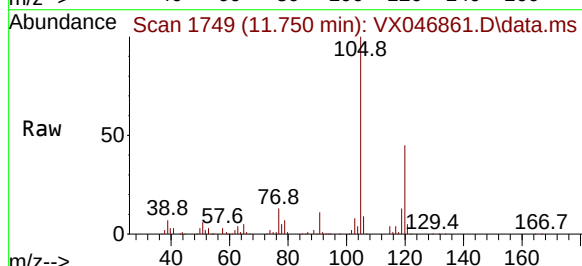
RT: 11.750 min Scan# 1749

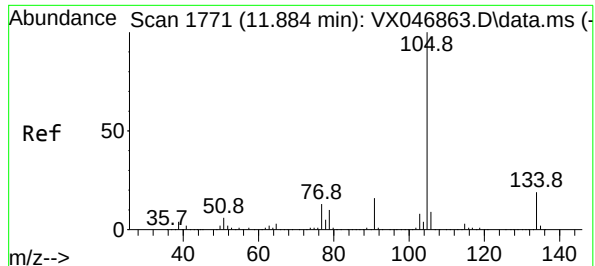
Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Tgt Ion:	105	Resp:	88868
Ion	Ratio	Lower	Upper
105	100		
120	43.0	23.3	69.8





#85

sec-Butylbenzene

Concen: 5.003 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.006 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 11514

Ion Ratio Lower Upper

105 100

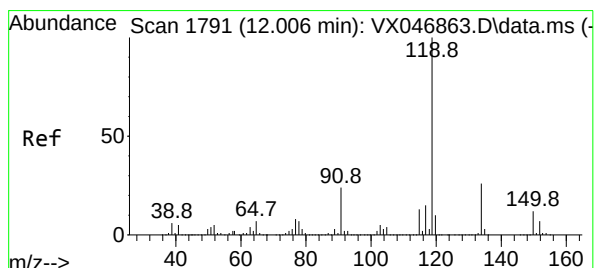
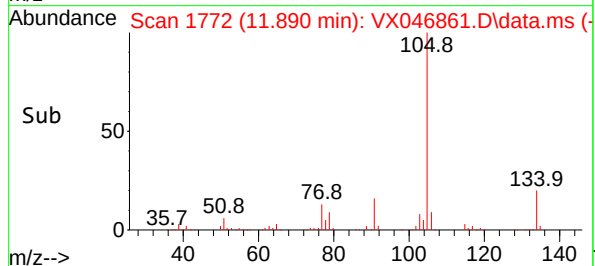
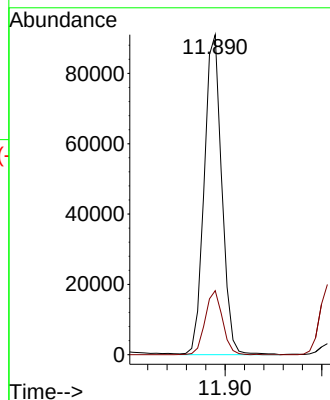
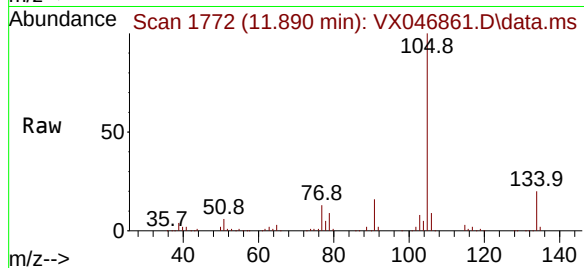
134 19.8 9.9 29.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#86

p-Isopropyltoluene

Concen: 5.072 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

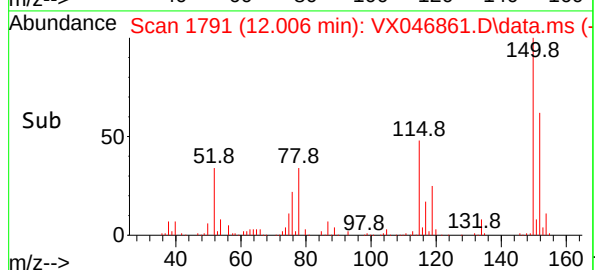
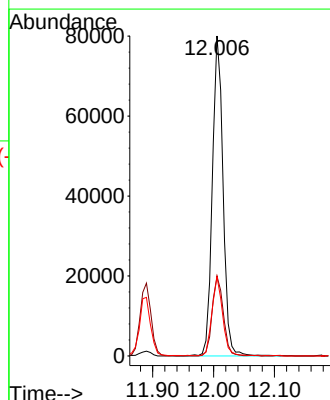
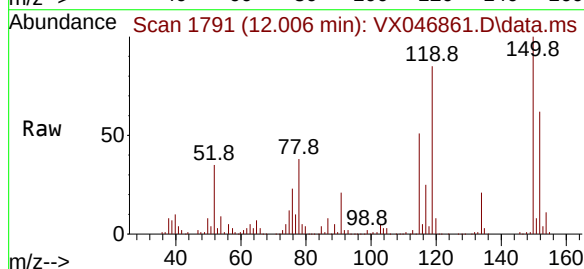
Tgt Ion:119 Resp: 97742

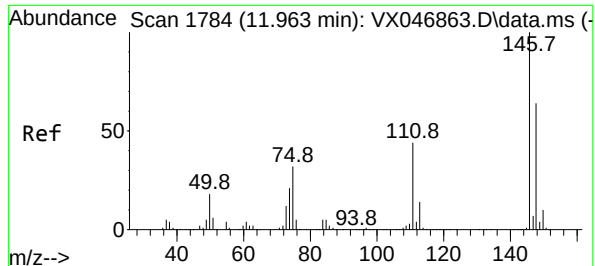
Ion Ratio Lower Upper

119 100

134 26.0 13.0 39.0

91 24.9 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 5.083 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.006 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:146 Resp: 51500

Ion Ratio Lower Upper

146 100

111 40.9 20.5 61.6

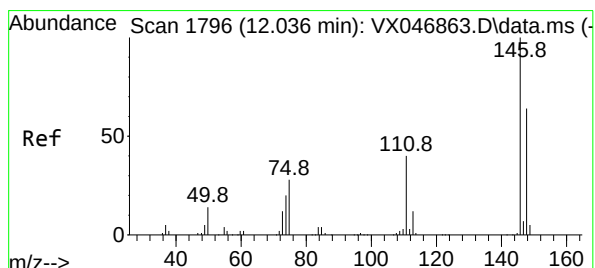
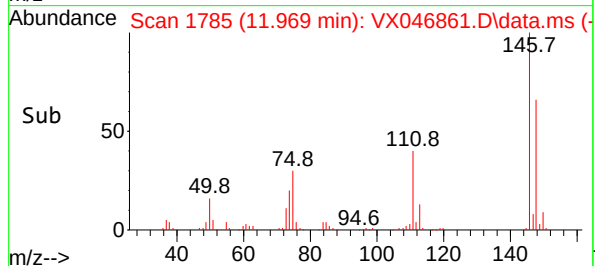
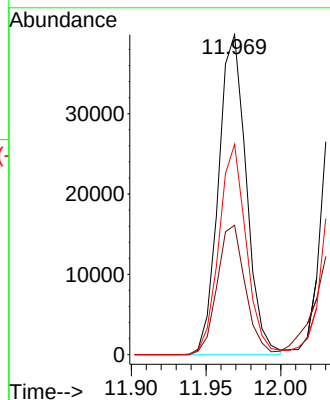
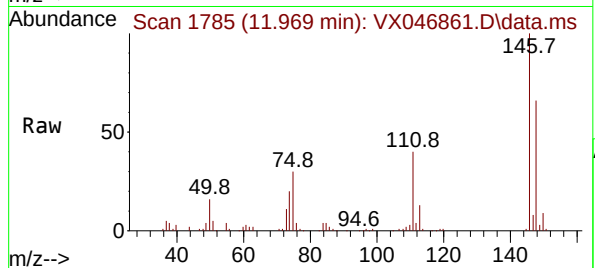
148 65.0 31.4 94.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#88

1,4-Dichlorobenzene

Concen: 5.210 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

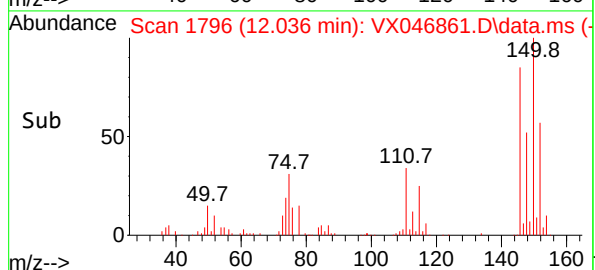
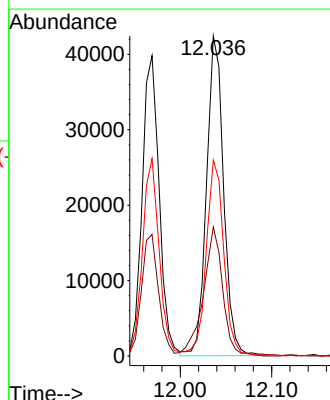
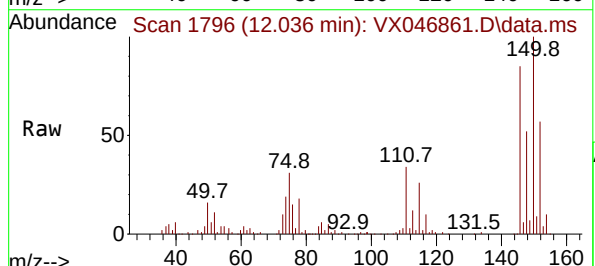
Tgt Ion:146 Resp: 54943

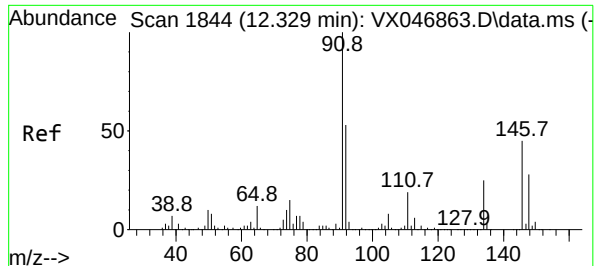
Ion Ratio Lower Upper

146 100

111 45.8 20.2 60.5

148 63.2 32.4 97.0





#89

n-Butylbenzene

Concen: 4.939 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

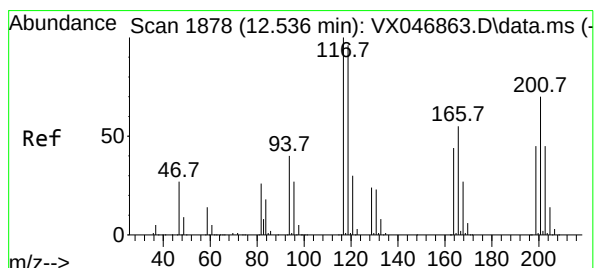
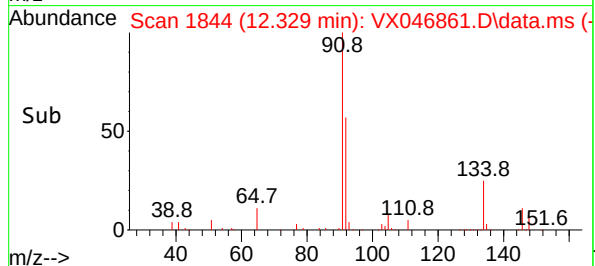
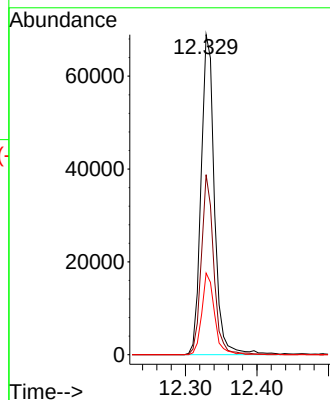
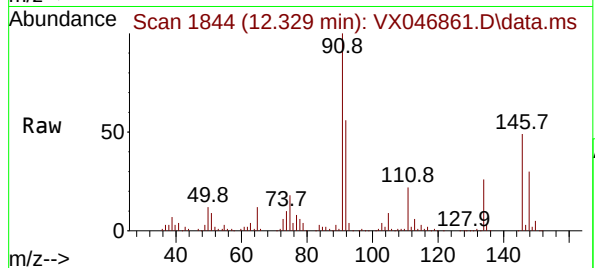
ClientSampleId :

VSTDIC005

Tgt Ion:	91	Resp:	8943
Ion Ratio	Lower	Upper	
91	100		
92	52.3	27.0	81.0
134	24.2	12.8	38.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#90

Hexachloroethane

Concen: 4.733 ug/l

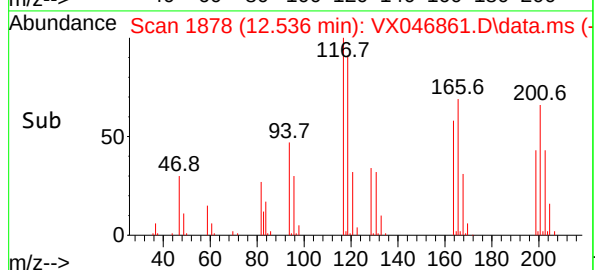
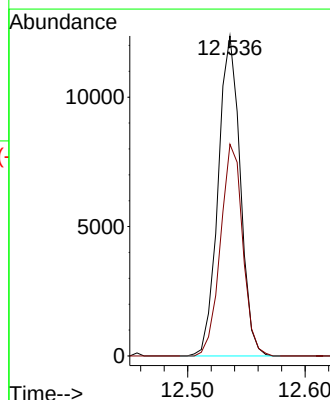
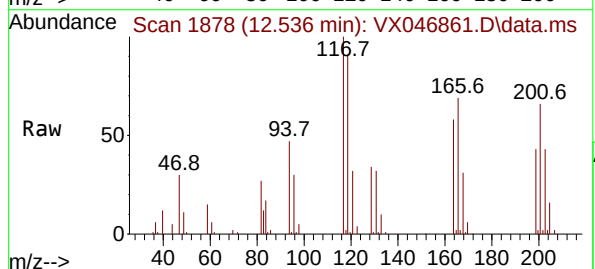
RT: 12.536 min Scan# 1878

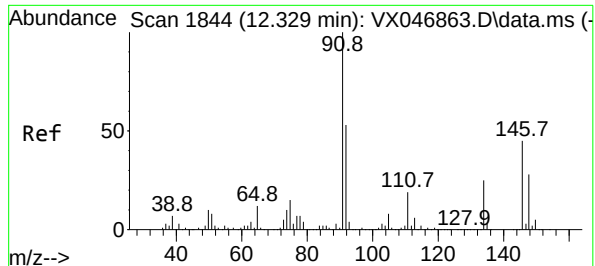
Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

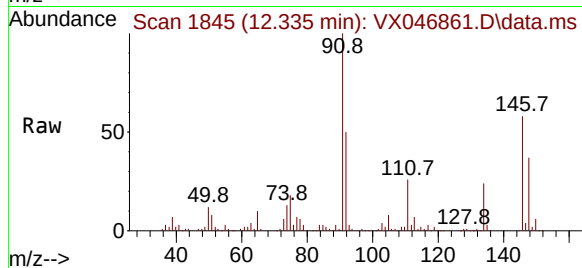
Tgt Ion:	117	Resp:	16170
Ion Ratio	Lower	Upper	
117	100		
201	66.6	35.8	107.4





#91
1,2-Dichlorobenzene
Concen: 5.016 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

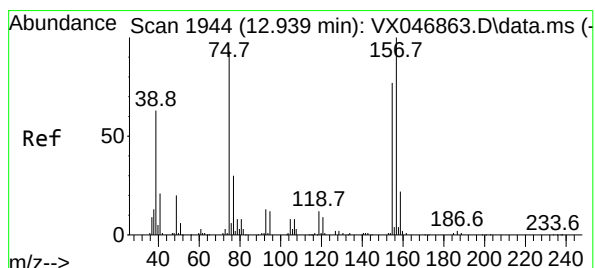
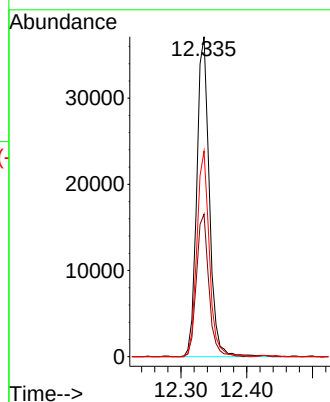
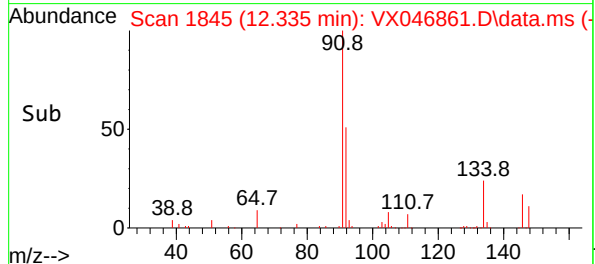
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:146 Resp: 4925
Ion Ratio Lower Upper
146 100
111 44.1 21.1 63.1
148 63.4 31.6 95.0

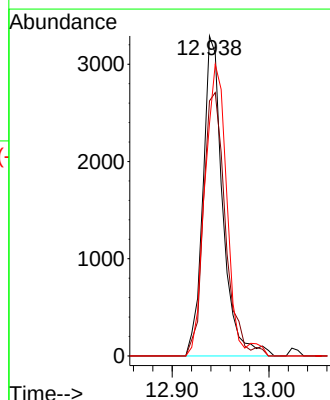
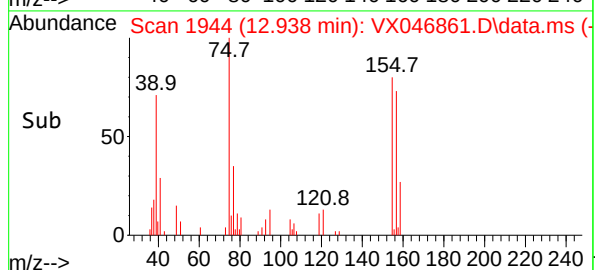
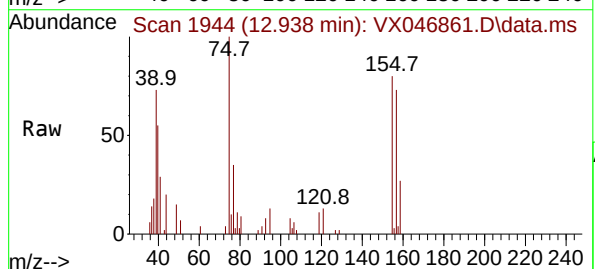
Manual Integrations
APPROVED

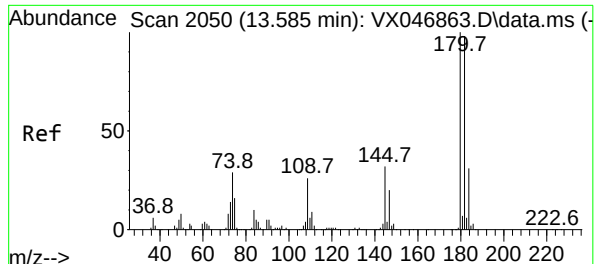
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 4.469 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046861.D
Acq: 02 Jul 2025 12:37

Tgt Ion: 75 Resp: 4675
Ion Ratio Lower Upper
75 100
155 91.8 43.1 129.4
157 99.1 56.5 169.5





#93

1,2,4-Trichlorobenzene

Concen: 4.731 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

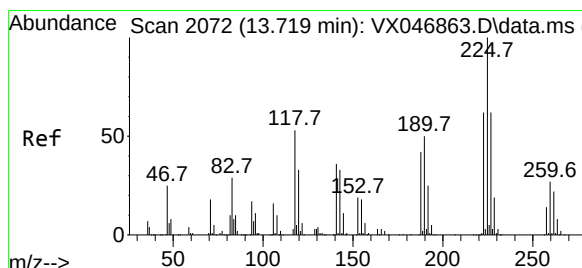
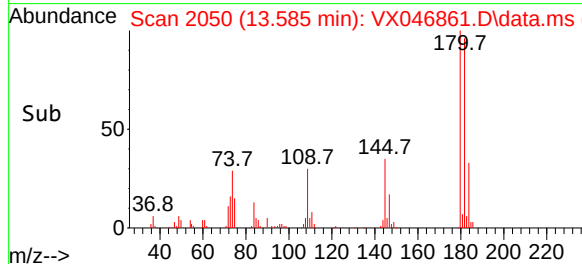
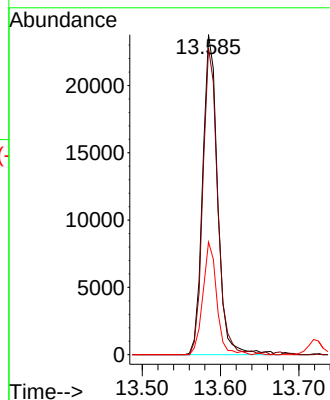
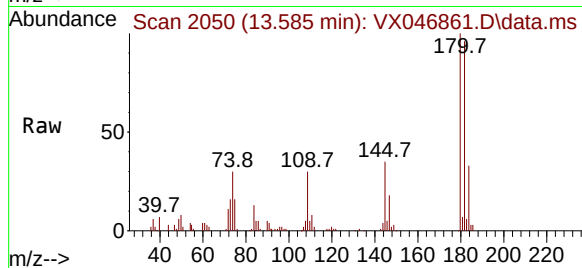
Tgt Ion:	180	Resp:	3155
Ion Ratio	Lower	Upper	
180	100		
182	94.7	47.3	141.9
145	32.5	16.1	48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#94

Hexachlorobutadiene

Concen: 4.886 ug/l

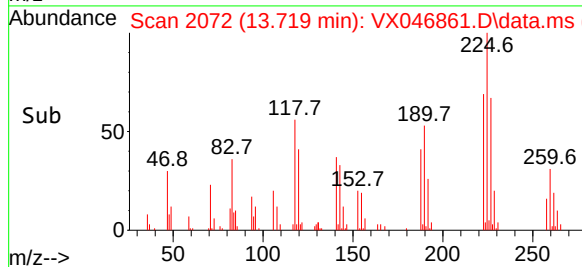
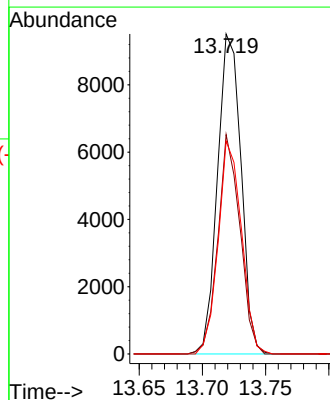
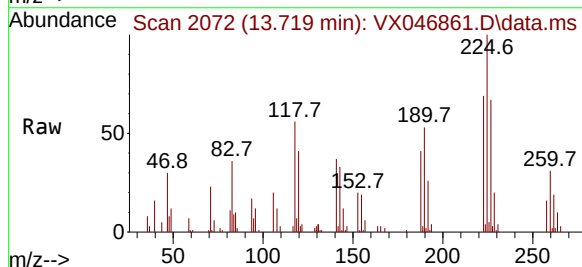
RT: 13.719 min Scan# 2072

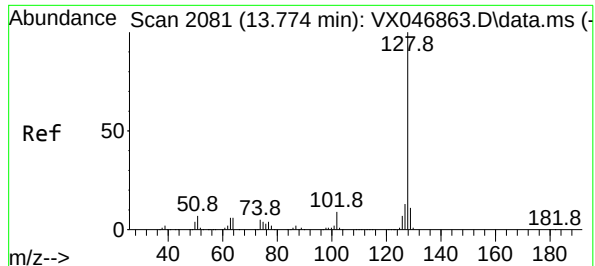
Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Tgt Ion:	225	Resp:	12292
Ion Ratio	Lower	Upper	
225	100		
223	64.4	31.6	94.7
227	66.0	31.6	94.7





#95

Naphthalene

Concen: 4.465 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Instrument :

MSVOA_X

ClientSampleId :

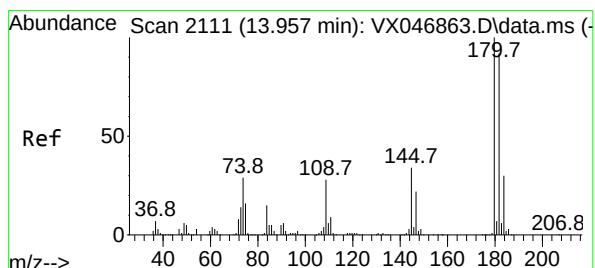
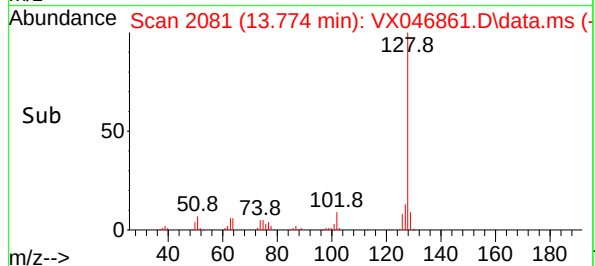
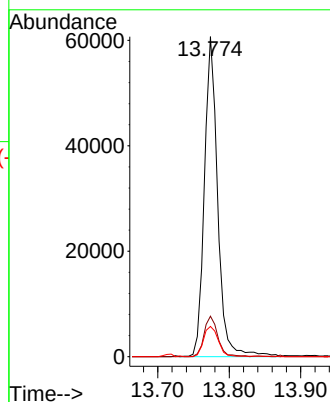
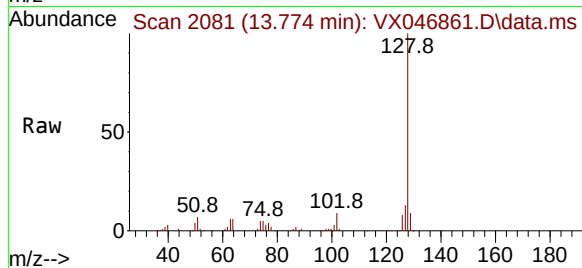
VSTDICC005

Tgt Ion:	128	Resp:	7848
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.2	15.4
129	10.4	8.6	13.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#96

1,2,3-Trichlorobenzene

Concen: 4.737 ug/l

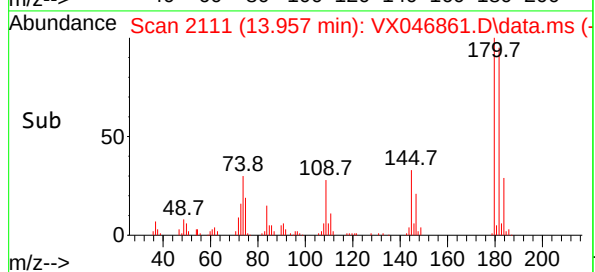
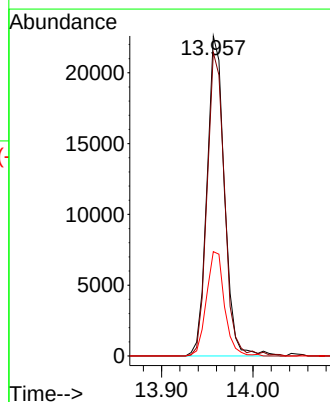
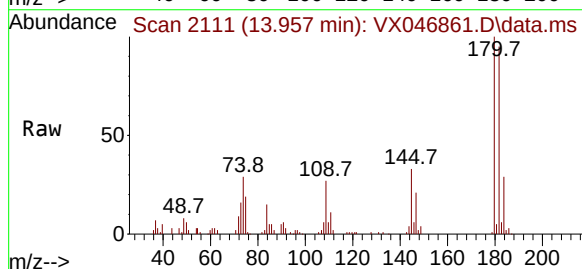
RT: 13.957 min Scan# 2111

Delta R.T. -0.000 min

Lab File: VX046861.D

Acq: 02 Jul 2025 12:37

Tgt Ion:	180	Resp:	29854
Ion Ratio	Lower	Upper	
180	100		
182	94.7	46.7	140.1
145	33.8	16.8	50.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046862.D
 Acq On : 02 Jul 2025 13:18
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Quant Time: Jul 03 05:31:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.556	168	399111	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	642908	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	576289	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	296482	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	104091	19.742	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	39.480%#		
35) Dibromofluoromethane	5.391	113	88863	20.362	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	40.720%#		
50) Toluene-d8	8.647	98	313624	20.369	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	40.740%#		
62) 4-Bromofluorobenzene	11.079	95	120554	20.601	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	41.200%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.184	85	81688	21.402	ug/l	99
3) Chloromethane	1.306	50	86312	20.697	ug/l	97
4) Vinyl Chloride	1.386	62	94339	20.773	ug/l	100
5) Bromomethane	1.629	94	64159	21.988	ug/l	97
6) Chloroethane	1.703	64	61209	20.412	ug/l	100
7) Trichlorofluoromethane	1.904	101	147045	20.941	ug/l	98
8) Diethyl Ether	2.142	74	50485	20.203	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.343	101	93041	20.794	ug/l	98
10) Methyl Iodide	2.465	142	92753	19.028	ug/l	100
11) Tert butyl alcohol	2.952	59	33170	95.921	ug/l	99
12) 1,1-Dichloroethene	2.337	96	87106	20.127	ug/l	99
13) Acrolein	2.245	56	34095	91.049	ug/l	97
14) Allyl chloride	2.678	41	153719	19.950	ug/l	99
15) Acrylonitrile	3.068	53	198794	99.028	ug/l	99
16) Acetone	2.379	43	155869	95.170	ug/l	98
17) Carbon Disulfide	2.526	76	224317	19.764	ug/l	98
18) Methyl Acetate	2.709	43	89471	20.726	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	245776	20.110	ug/l	100
20) Methylene Chloride	2.800	84	99547	20.555	ug/l	97
21) trans-1,2-Dichloroethene	3.105	96	91856	20.742	ug/l	94
22) Diisopropyl ether	3.763	45	314003	21.094	ug/l	94
23) Vinyl Acetate	3.727	43	1136064	101.868	ug/l	100
24) 1,1-Dichloroethane	3.617	63	171529	20.204	ug/l	100
25) 2-Butanone	4.556	43	219759	100.571	ug/l	99
26) 2,2-Dichloropropane	4.483	77	124894	19.767	ug/l	99
27) cis-1,2-Dichloroethene	4.495	96	109844	20.316	ug/l	99
28) Bromochloromethane	4.903	49	83733	19.985	ug/l	97
29) Tetrahydrofuran	5.001	42	138587	99.493	ug/l	99
30) Chloroform	5.098	83	177543	20.470	ug/l	97
31) Cyclohexane	5.470	56	155952	20.692	ug/l	93
32) 1,1,1-Trichloroethane	5.391	97	144962	20.005	ug/l	98
36) 1,1-Dichloropropene	5.702	75	118611	20.144	ug/l	97
37) Ethyl Acetate	4.720	43	95352	19.013	ug/l	99
38) Carbon Tetrachloride	5.684	117	127307	20.188	ug/l	97
39) Methylcyclohexane	7.378	83	151595	20.582	ug/l	96
40) Benzene	6.043	78	373429	20.968	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046862.D
 Acq On : 02 Jul 2025 13:18
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:31:05 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M

Quant Title : SW846 8260

QLast Update : Thu Jul 03 05:21:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	57138	21.358	ug/l	95
42) 1,2-Dichloroethane	6.086	62	125114	20.689	ug/l	99
43) Isopropyl Acetate	6.336	43	157613	20.519	ug/l	100
44) Trichloroethene	7.128	130	93746	20.221	ug/l	100
45) 1,2-Dichloropropane	7.427	63	93205	20.714	ug/l	99
46) Dibromomethane	7.580	93	64260	20.612	ug/l	100
47) Bromodichloromethane	7.817	83	137600	20.670	ug/l	98
48) Methyl methacrylate	7.695	41	78897	19.892	ug/l	97
49) 1,4-Dioxane	7.659	88	18907	411.405	ug/l	97
51) 4-Methyl-2-Pentanone	8.567	43	473773	104.508	ug/l	99
52) Toluene	8.714	92	232882	21.102	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	120040	20.206	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	136889	20.187	ug/l	98
55) 1,1,2-Trichloroethane	9.146	97	84451	20.545	ug/l	97
56) Ethyl methacrylate	9.116	69	114929	20.200	ug/l	99
57) 1,3-Dichloropropane	9.305	76	147193	20.795	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	331143	103.298	ug/l	100
59) 2-Hexanone	9.427	43	314535	104.602	ug/l	99
60) Dibromochloromethane	9.518	129	100960	20.523	ug/l	100
61) 1,2-Dibromoethane	9.610	107	85342	20.672	ug/l	100
64) Tetrachloroethene	9.268	164	79577	20.740	ug/l	96
65) Chlorobenzene	10.073	112	256491	20.586	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.158	131	86804	20.724	ug/l	99
67) Ethyl Benzene	10.189	91	444690	20.841	ug/l	99
68) m/p-Xylenes	10.299	106	337082	41.924	ug/l	98
69) o-Xylene	10.640	106	162094	20.870	ug/l	99
70) Styrene	10.652	104	283121	21.307	ug/l	100
71) Bromoform	10.799	173	62957	20.215	ug/l #	98
73) Isopropylbenzene	10.957	105	428283	20.549	ug/l	100
74) N-amyl acetate	10.841	43	141581	19.991	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	116329	20.298	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	91349m	19.941	ug/l	
77) Bromobenzene	11.195	156	103902	20.014	ug/l	96
78) n-propylbenzene	11.298	91	517332	20.585	ug/l	100
79) 2-Chlorotoluene	11.359	91	307886	20.748	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	357455	21.108	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	31721	18.582	ug/l	94
82) 4-Chlorotoluene	11.451	91	353678	20.654	ug/l	99
83) tert-Butylbenzene	11.713	119	360024	20.583	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	357753	20.900	ug/l	95
85) sec-Butylbenzene	11.890	105	456837	20.715	ug/l	100
86) p-Isopropyltoluene	12.006	119	377192	20.425	ug/l	100
87) 1,3-Dichlorobenzene	11.963	146	198351	20.429	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	202881	20.078	ug/l	99
89) n-Butylbenzene	12.329	91	360061	20.750	ug/l	99
90) Hexachloroethane	12.536	117	63705	19.459	ug/l	99
91) 1,2-Dichlorobenzene	12.329	146	192682	20.479	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.938	75	19455	19.409	ug/l	97
93) 1,2,4-Trichlorobenzene	13.585	180	127830	19.999	ug/l	99
94) Hexachlorobutadiene	13.725	225	49928	20.713	ug/l	99
95) Naphthalene	13.774	128	343123	20.372	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	122506	20.284	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046862.D
Acq On : 02 Jul 2025 13:18
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:31:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:21:52 2025
Response via : Initial Calibration

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

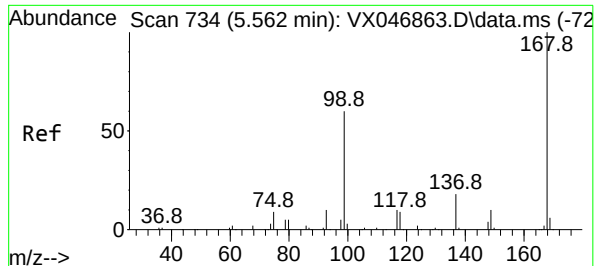
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025





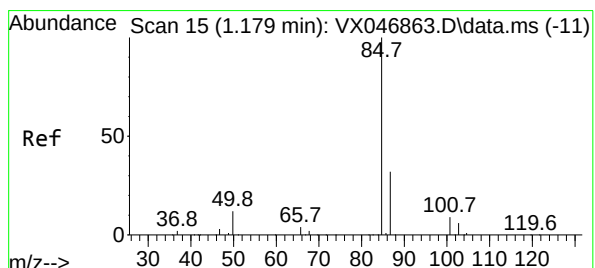
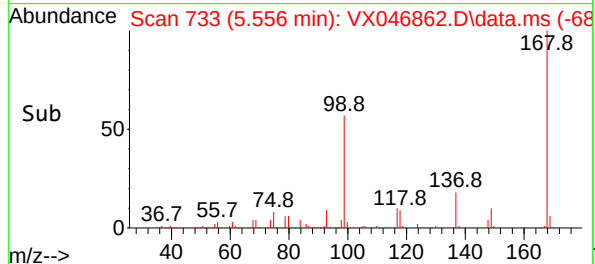
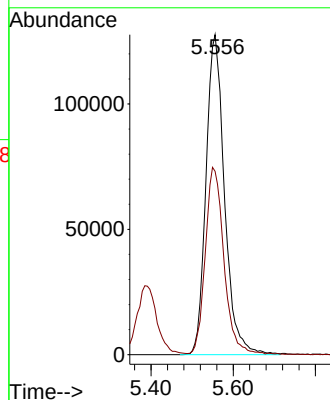
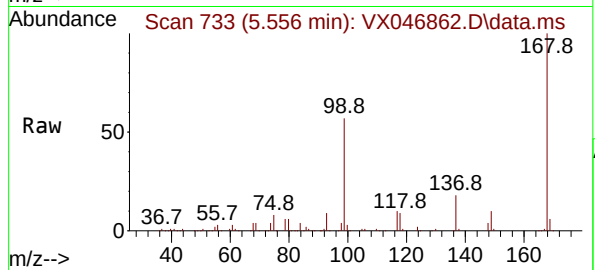
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tgt Ion:168 Resp: 39911
Ion Ratio Lower Upper
168 100
99 57.1 48.8 73.2

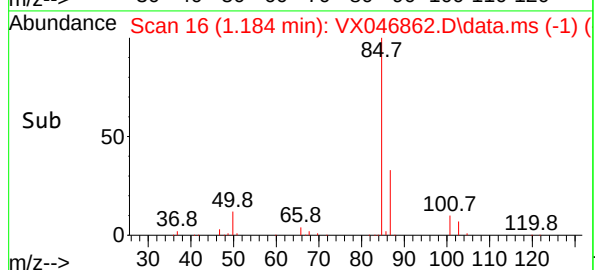
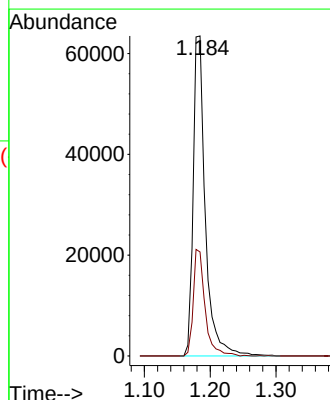
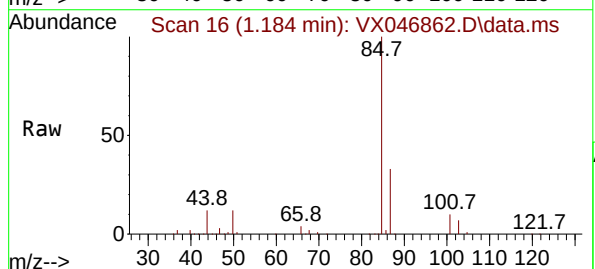
Manual Integrations
APPROVED

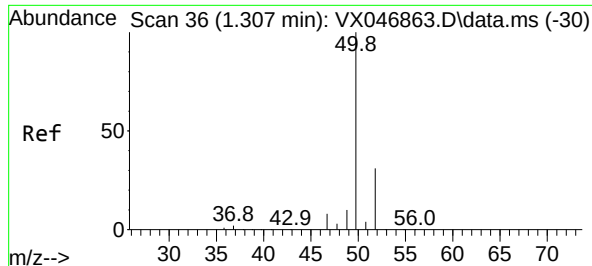
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#2
Dichlorodifluoromethane
Concen: 21.402 ug/l
RT: 1.184 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Tgt Ion: 85 Resp: 81688
Ion Ratio Lower Upper
85 100
87 32.5 16.0 47.9





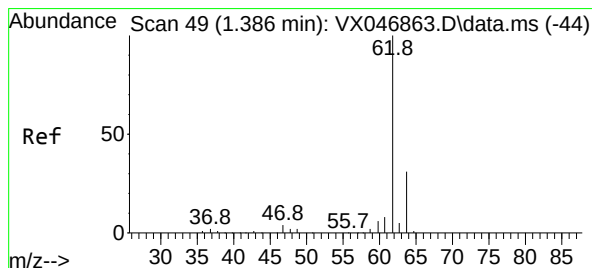
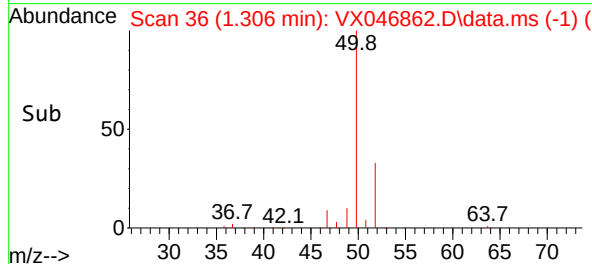
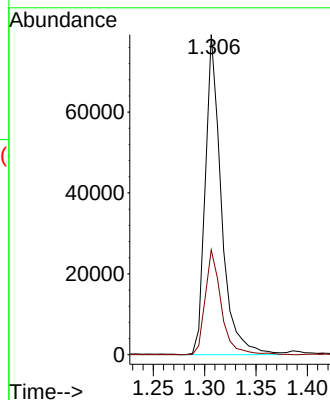
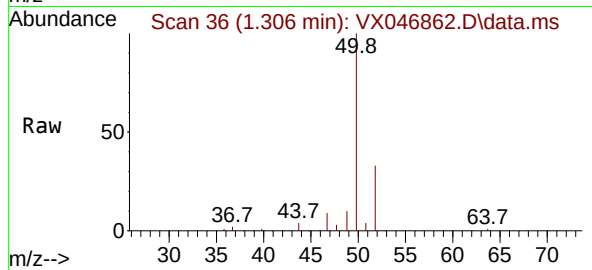
#3
Chloromethane
Concen: 20.697 ug/l
RT: 1.306 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 8631
Ion Ratio Lower Upper
50 100
52 32.7 25.0 37.4

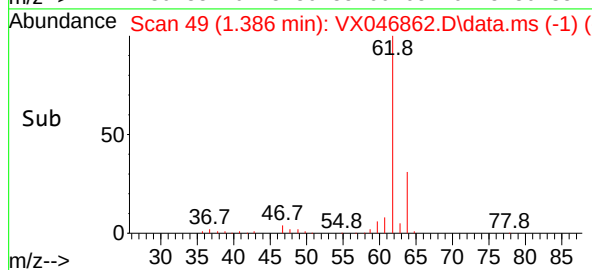
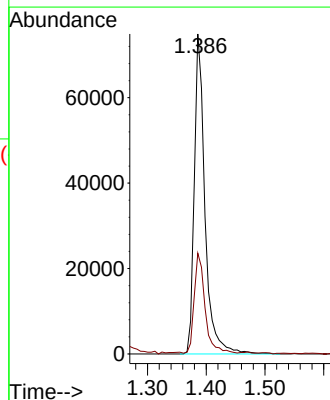
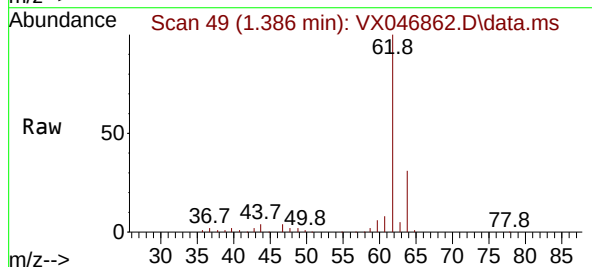
Manual Integrations
APPROVED

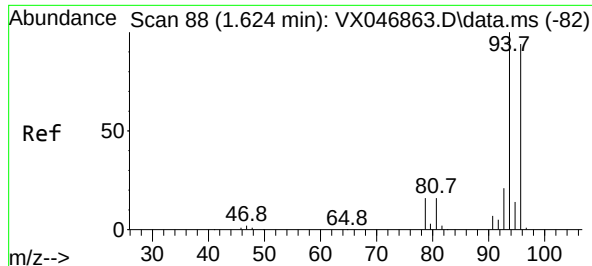
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#4
Vinyl Chloride
Concen: 20.773 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Tgt Ion: 62 Resp: 94339
Ion Ratio Lower Upper
62 100
64 31.3 25.0 37.4





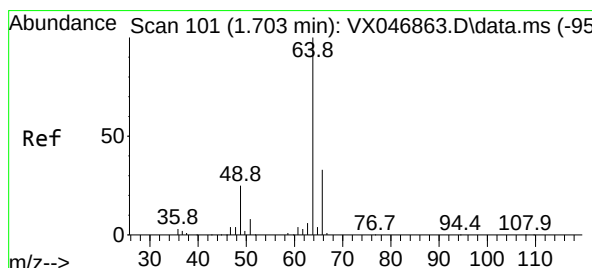
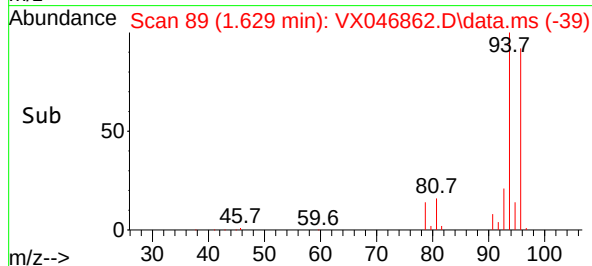
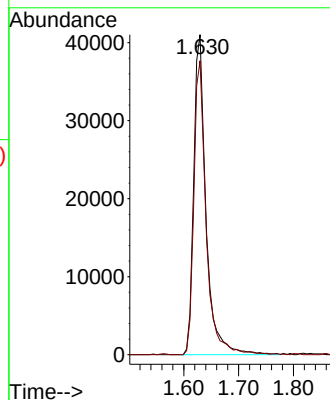
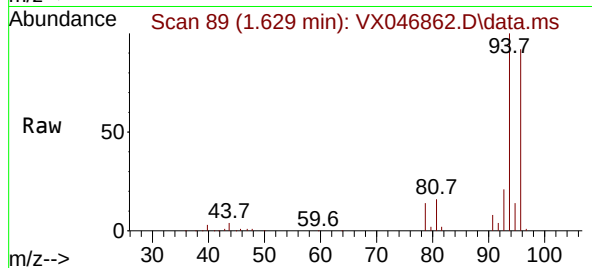
#5
Bromomethane
Concen: 21.988 ug/l
RT: 1.629 min Scan# 89
Delta R.T. 0.006 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 64159
Ion Ratio Lower Upper
94 100
96 91.8 75.5 113.3

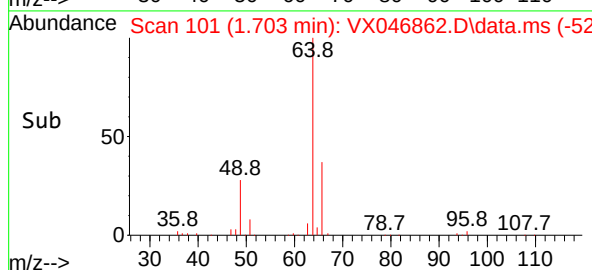
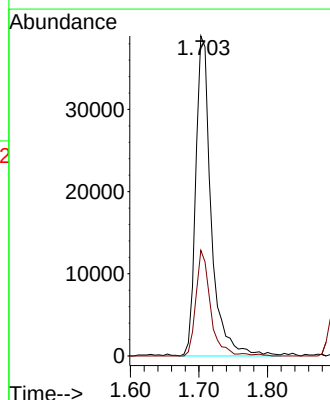
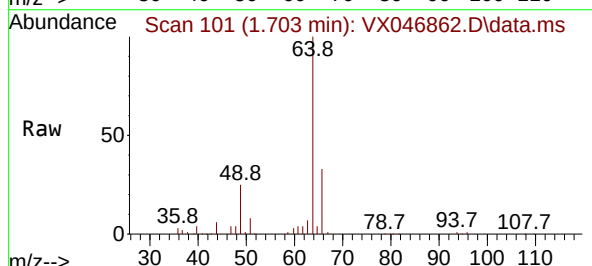
Manual Integrations
APPROVED

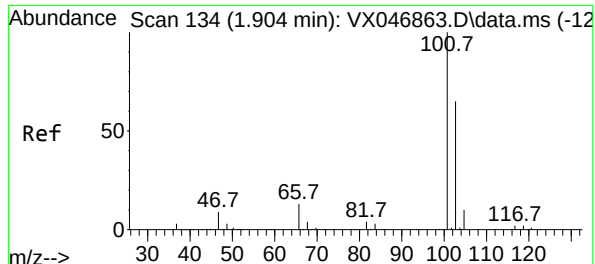
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#6
Chloroethane
Concen: 20.412 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

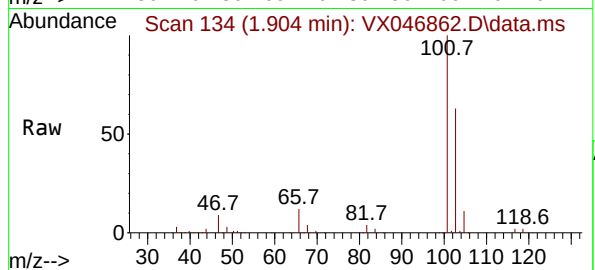
Tgt Ion: 64 Resp: 61209
Ion Ratio Lower Upper
64 100
66 33.0 26.4 39.6





#7
Trichlorofluoromethane
Concen: 20.941 ug/l
RT: 1.904 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

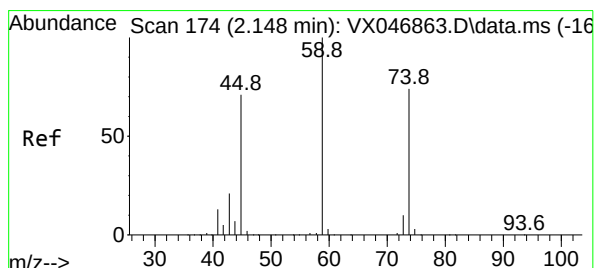
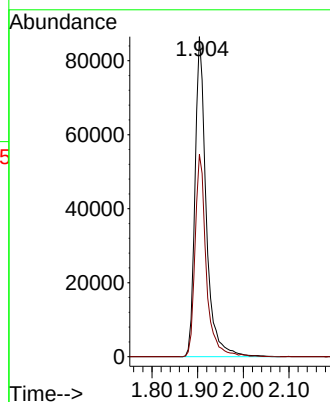
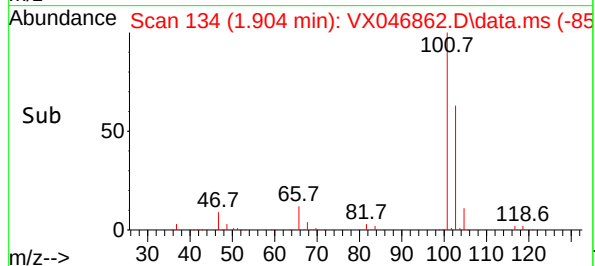
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:101 Resp: 147045
Ion Ratio Lower Upper
101 100
103 63.2 51.9 77.9

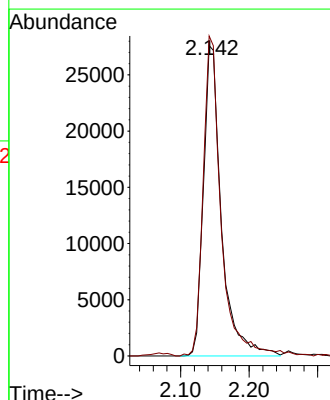
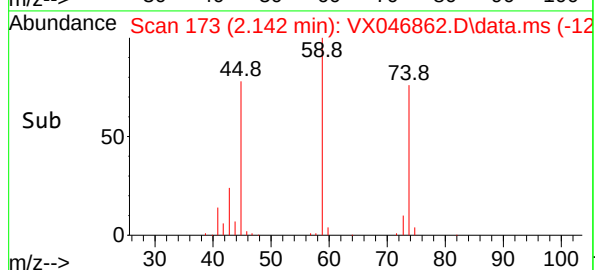
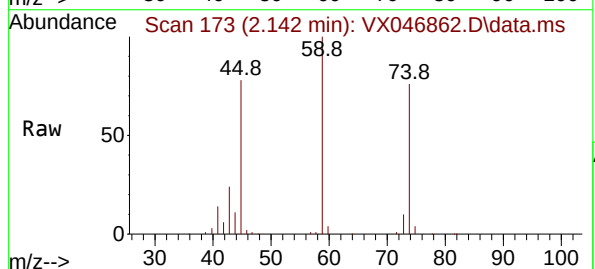
Manual Integrations
APPROVED

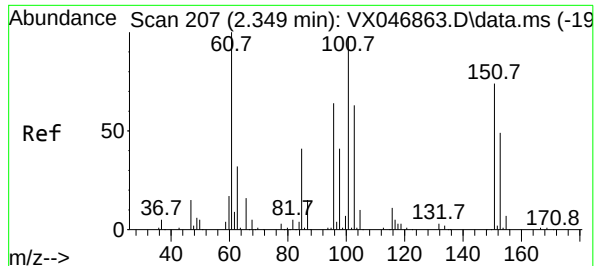
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#8
Diethyl Ether
Concen: 20.203 ug/l
RT: 2.142 min Scan# 173
Delta R.T. -0.006 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Tgt Ion: 74 Resp: 50485
Ion Ratio Lower Upper
74 100
45 102.6 50.7 152.1





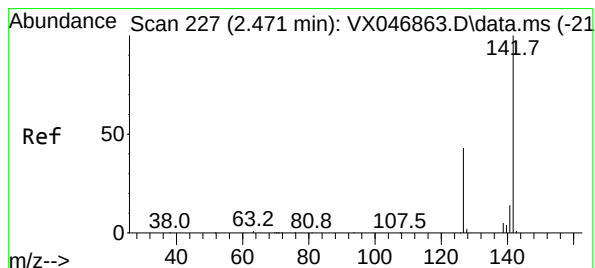
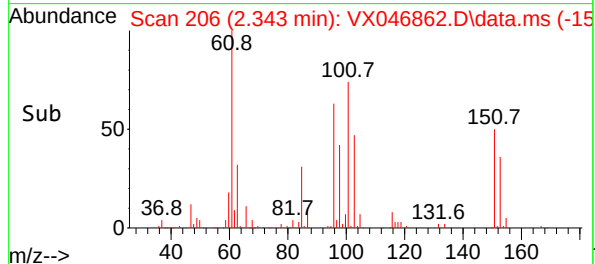
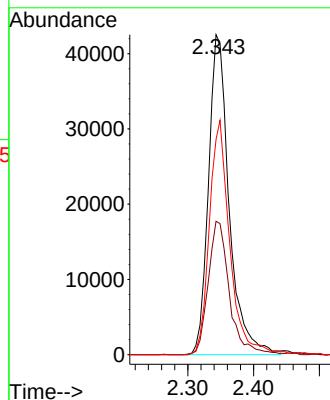
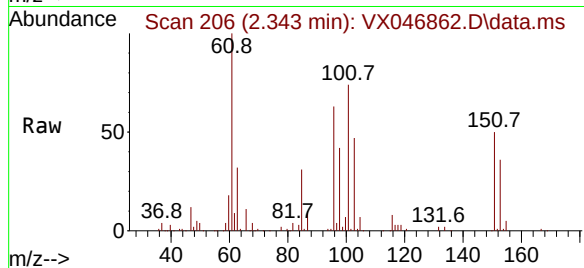
#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.794 ug/l
RT: 2.343 min Scan# 206
Delta R.T. -0.006 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 9304
Ion Ratio Lower Upper
101 100
85 42.6 34.3 51.5
151 72.3 59.9 89.9

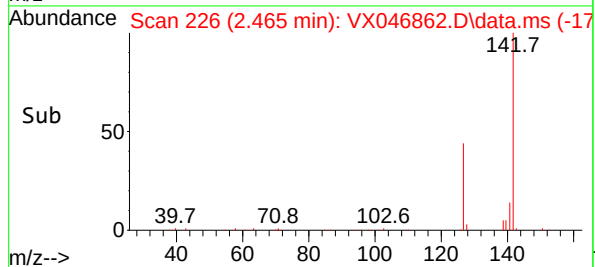
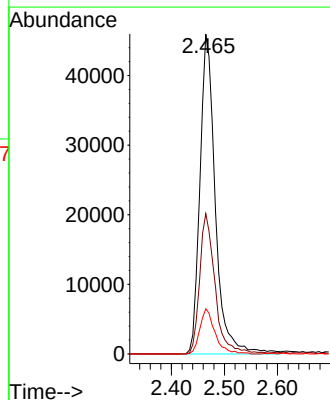
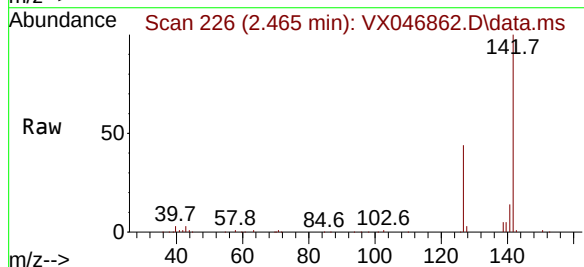
Manual Integrations
APPROVED

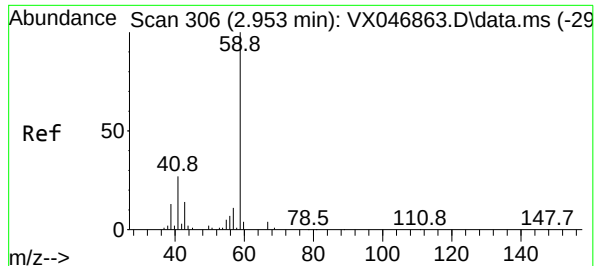
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#10
Methyl Iodide
Concen: 19.028 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Tgt Ion:142 Resp: 92753
Ion Ratio Lower Upper
142 100
127 44.0 34.9 52.3
141 13.9 11.1 16.7





#11

Tert butyl alcohol

Concen: 95.921 ug/l

RT: 2.952 min Scan# 306

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 59 Resp: 33170

Ion Ratio Lower Upper

59 100

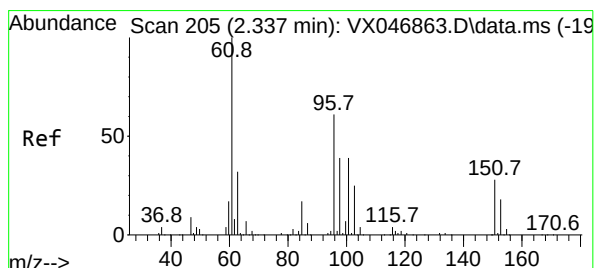
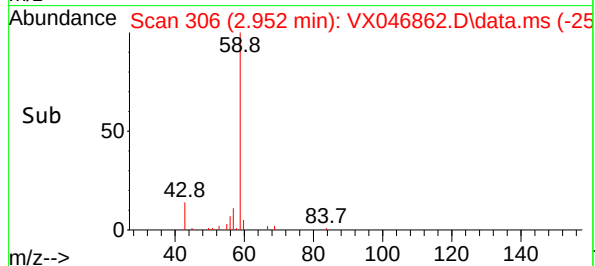
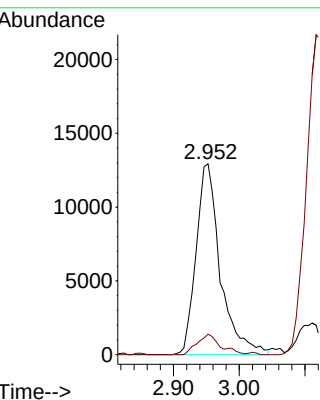
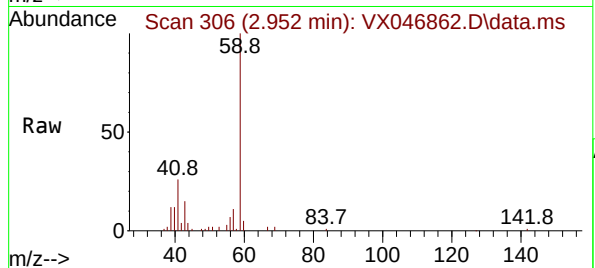
57 10.2 8.5 12.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#12

1,1-Dichloroethene

Concen: 20.127 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

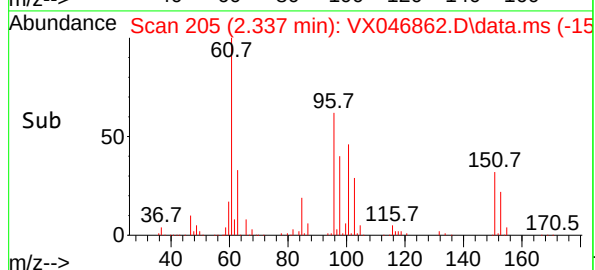
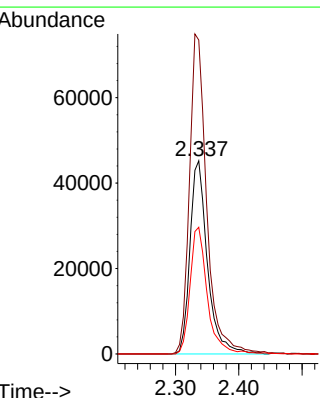
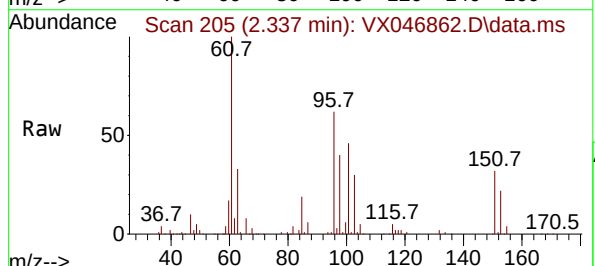
Tgt Ion: 96 Resp: 87106

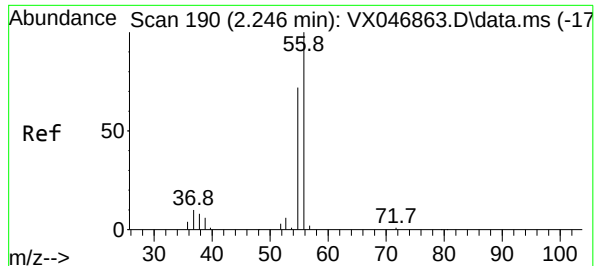
Ion Ratio Lower Upper

96 100

61 162.5 130.2 195.4

98 65.6 51.3 76.9





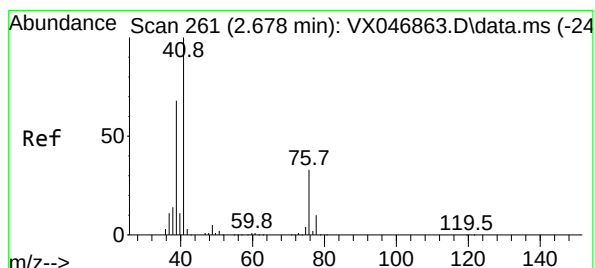
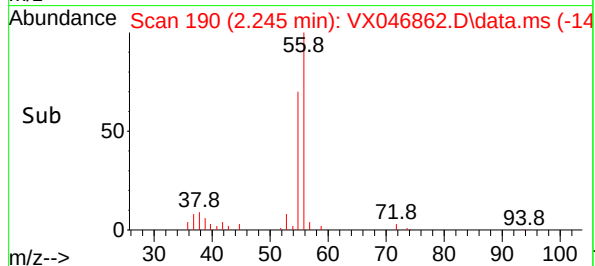
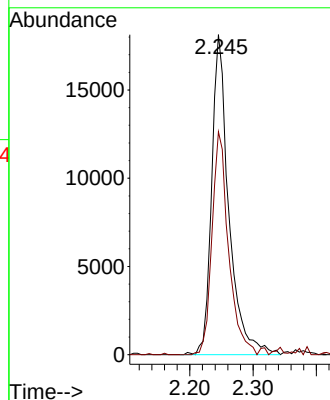
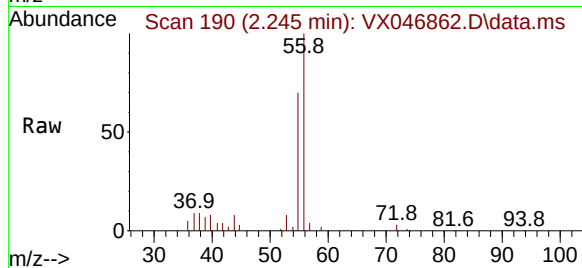
#13
Acrolein
Concen: 91.049 ug/l
RT: 2.245 min Scan# 190
Delta R.T. -0.001 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 3409
Ion Ratio Lower Upper
56 100
55 67.2 55.5 83.3

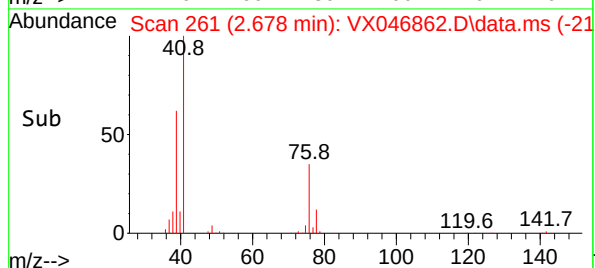
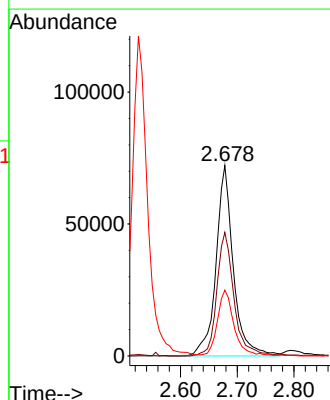
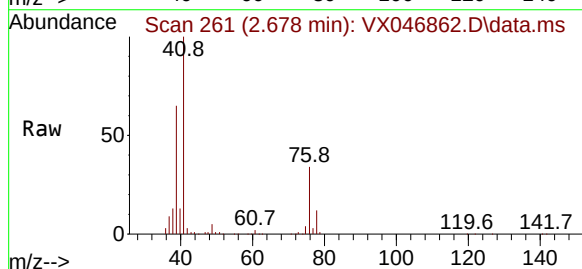
Manual Integrations
APPROVED

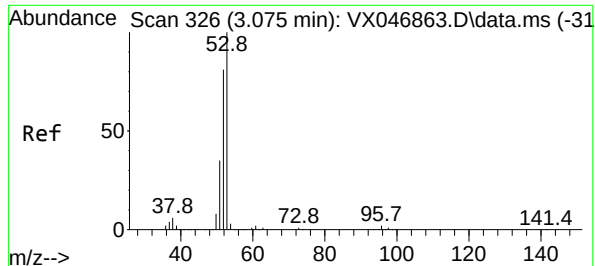
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#14
Allyl chloride
Concen: 19.950 ug/l
RT: 2.678 min Scan# 261
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

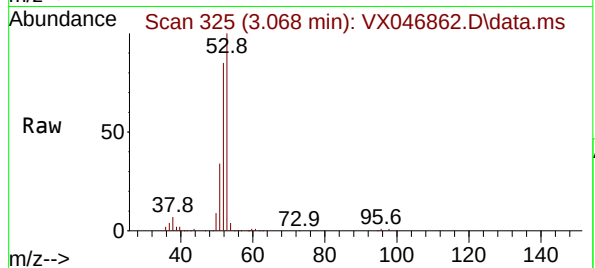
Tgt Ion: 41 Resp: 153719
Ion Ratio Lower Upper
41 100
39 63.9 52.0 78.0
76 33.4 26.2 39.2





#15
Acrylonitrile
Concen: 99.028 ug/l
RT: 3.068 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

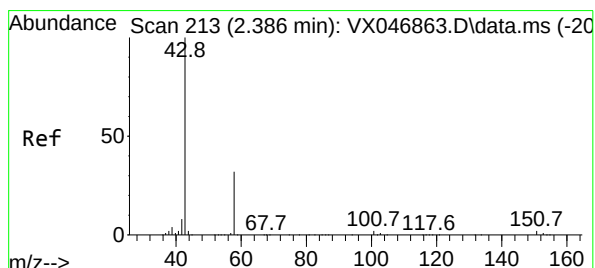
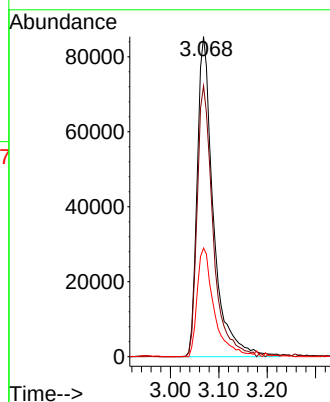
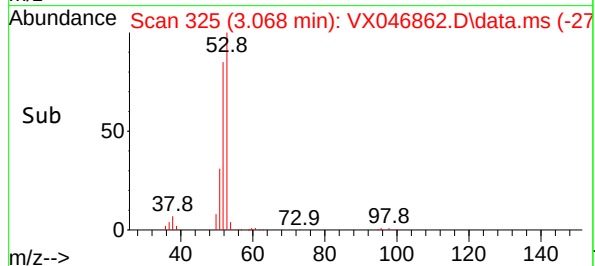
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 53 Resp: 198794
Ion Ratio Lower Upper
53 100
52 83.1 66.0 99.0
51 35.2 28.6 43.0

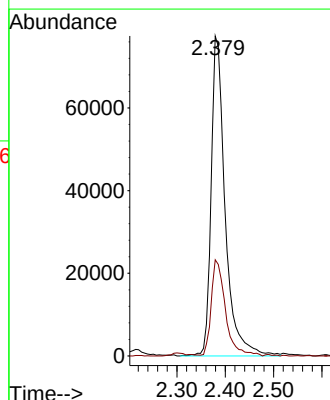
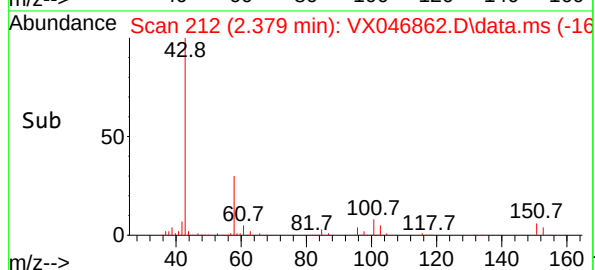
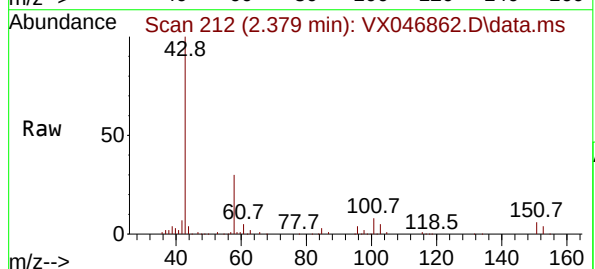
Manual Integrations
APPROVED

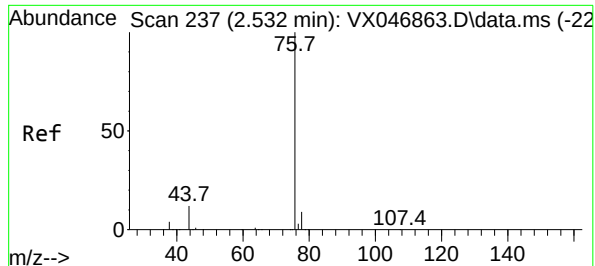
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#16
Acetone
Concen: 95.170 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

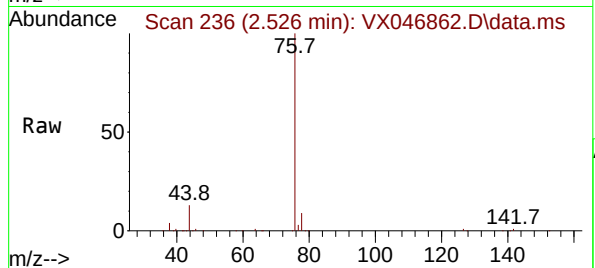
Tgt Ion: 43 Resp: 155869
Ion Ratio Lower Upper
43 100
58 31.3 25.8 38.6





#17
Carbon Disulfide
Concen: 19.764 ug/l
RT: 2.526 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

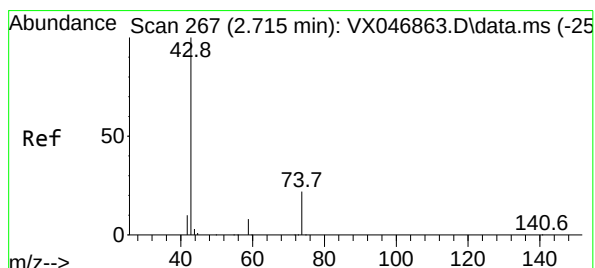
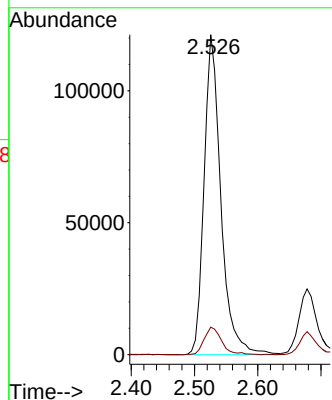
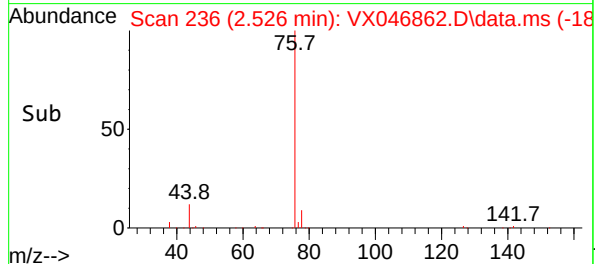
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 76 Resp: 22431
Ion Ratio Lower Upper
76 100
78 8.6 7.4 11.2

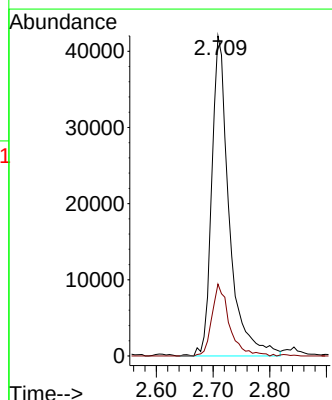
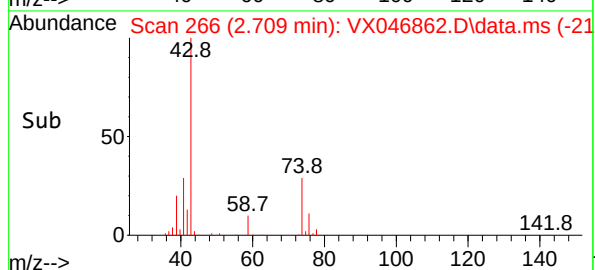
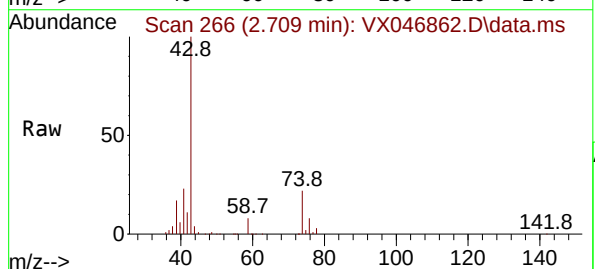
Manual Integrations
APPROVED

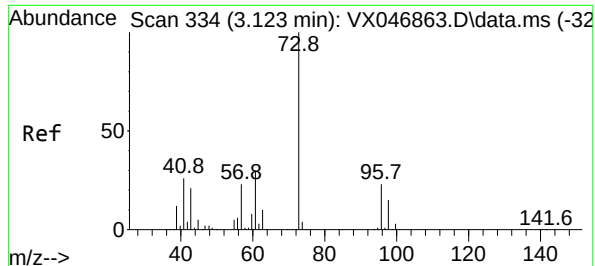
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#18
Methyl Acetate
Concen: 20.726 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.006 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Tgt Ion: 43 Resp: 89471
Ion Ratio Lower Upper
43 100
74 22.7 18.3 27.5





#19

Methyl tert-butyl Ether

Concen: 20.110 ug/l

RT: 3.117 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 73 Resp: 245770

Ion Ratio Lower Upper

73 100

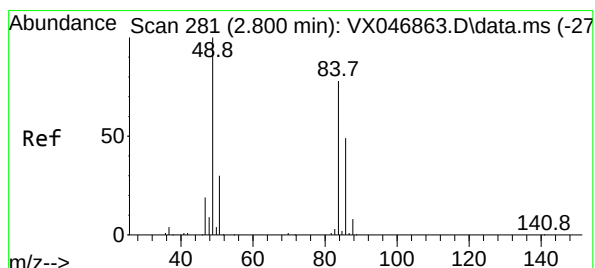
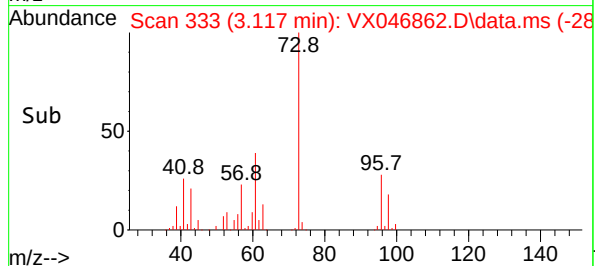
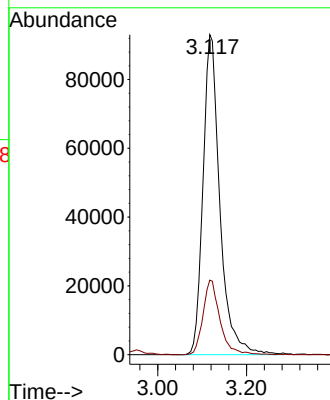
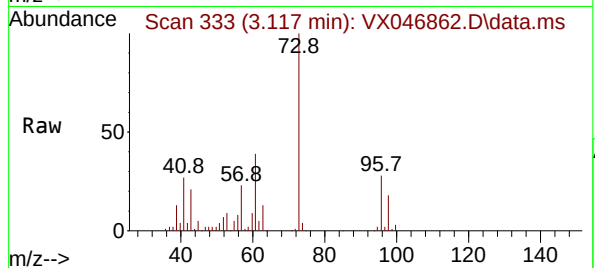
57 23.3 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#20

Methylene Chloride

Concen: 20.555 ug/l

RT: 2.800 min Scan# 281

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Tgt Ion: 84 Resp: 99547

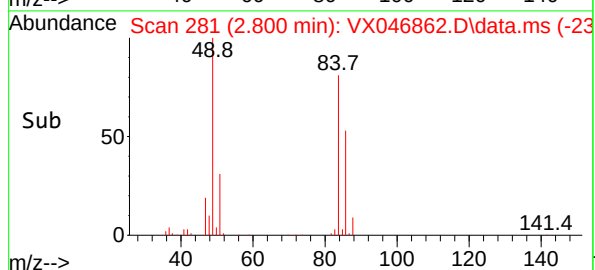
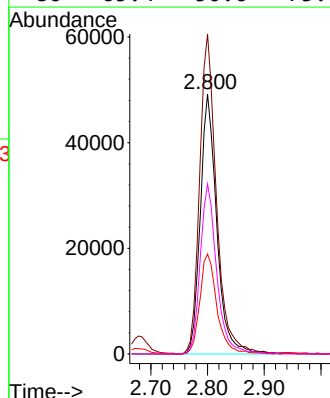
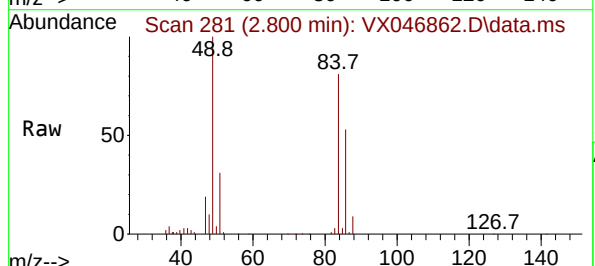
Ion Ratio Lower Upper

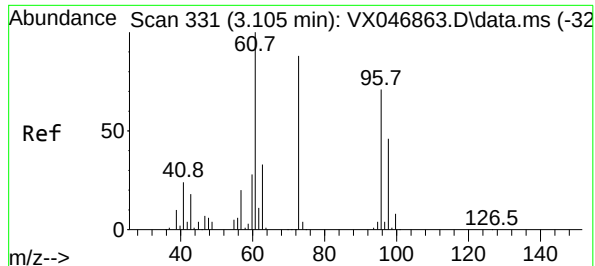
84 100

49 123.2 102.8 154.2

51 38.4 31.1 46.7

86 65.4 50.6 75.8





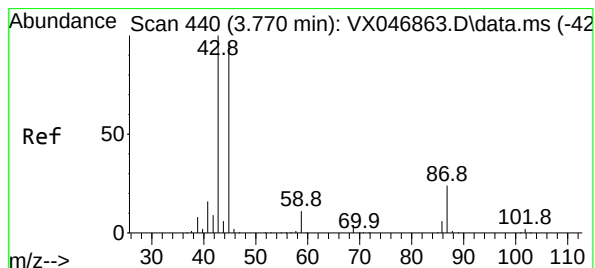
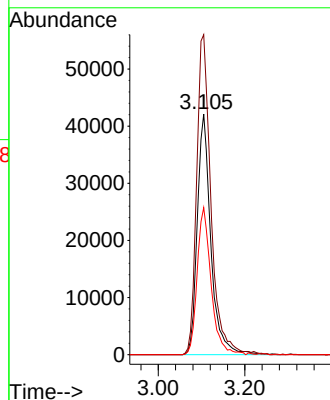
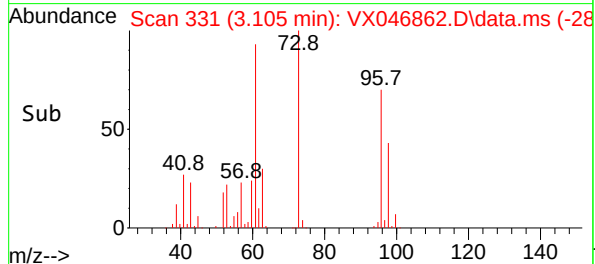
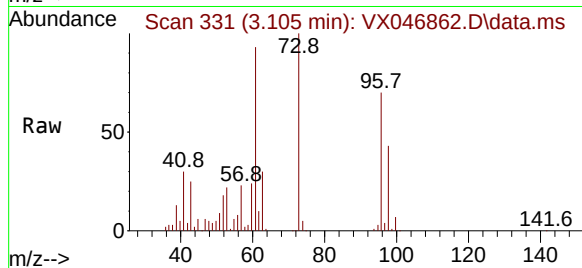
#21
trans-1,2-Dichloroethene
Concen: 20.742 ug/l
RT: 3.105 min Scan# 311
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 96 Resp: 91850
Ion Ratio Lower Upper
96 100
61 132.9 113.4 170.2
98 61.1 51.8 77.6

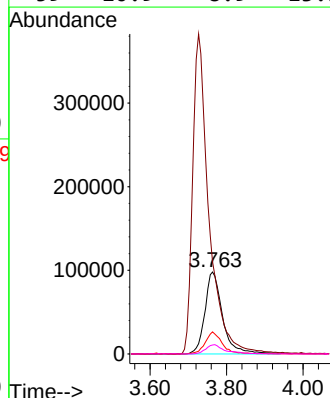
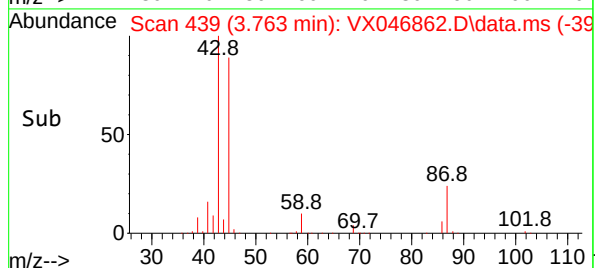
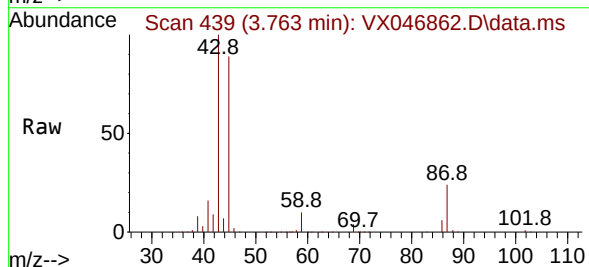
Manual Integrations
APPROVED

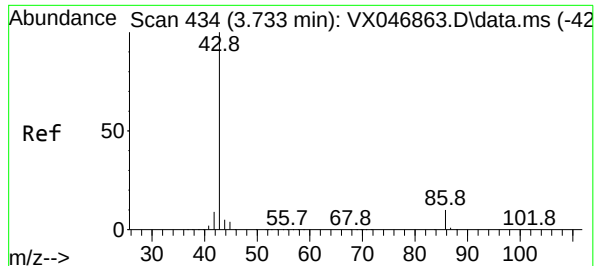
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#22
Diisopropyl ether
Concen: 21.094 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.006 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Tgt Ion: 45 Resp: 314003
Ion Ratio Lower Upper
45 100
43 112.6 84.2 126.4
87 26.9 20.3 30.5
59 10.9 8.9 13.3





#23

Vinyl Acetate

Concen: 101.868 ug/l

RT: 3.727 min Scan# 41

Delta R.T. -0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 113606

Ion Ratio Lower Upper

43 100

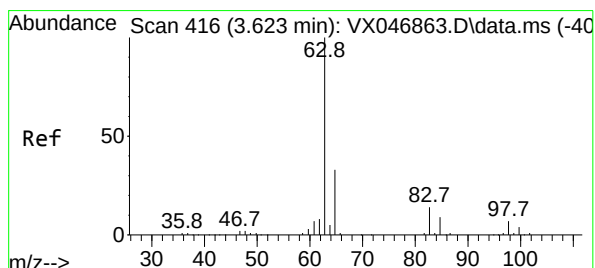
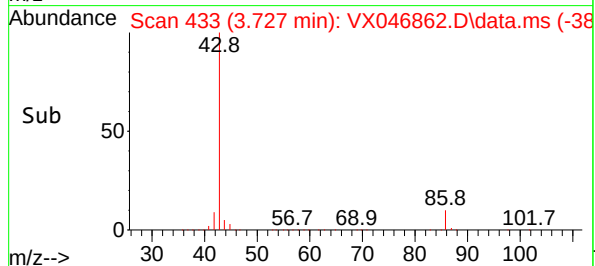
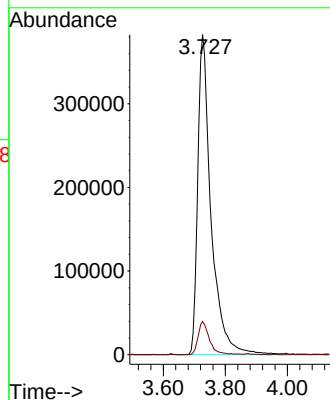
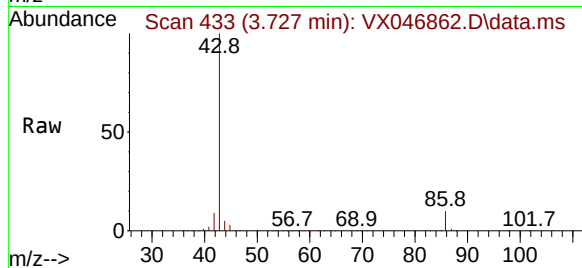
86 10.4 8.2 12.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#24

1,1-Dichloroethane

Concen: 20.204 ug/l

RT: 3.617 min Scan# 415

Delta R.T. -0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

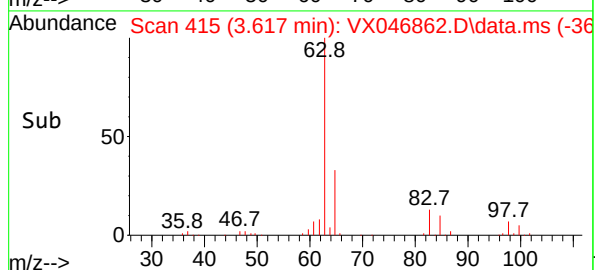
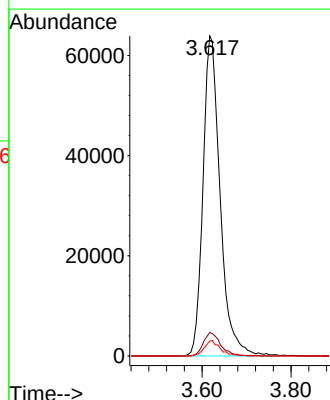
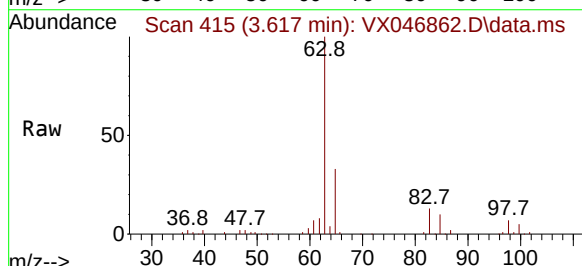
Tgt Ion: 63 Resp: 171529

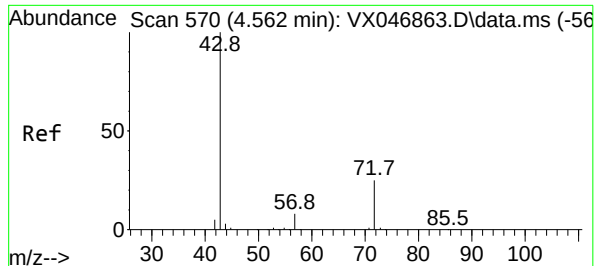
Ion Ratio Lower Upper

63 100

98 7.4 3.6 10.9

100 4.8 2.3 6.9





#25

2-Butanone

Concen: 100.571 ug/l

RT: 4.556 min Scan# 50

Delta R.T. -0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 21975

Ion Ratio Lower Upper

43 100

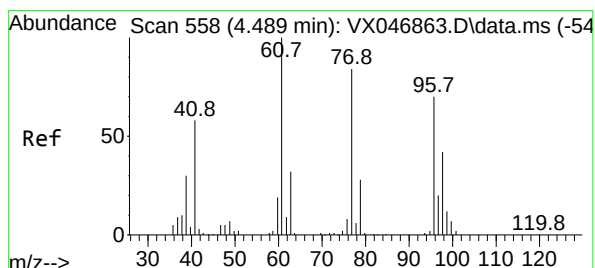
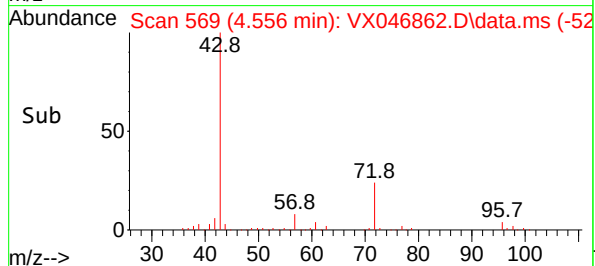
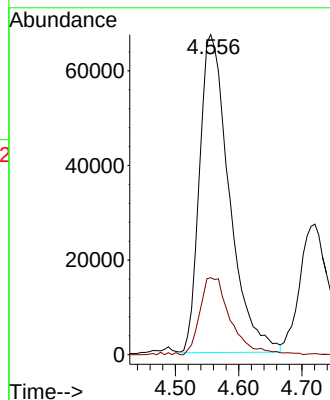
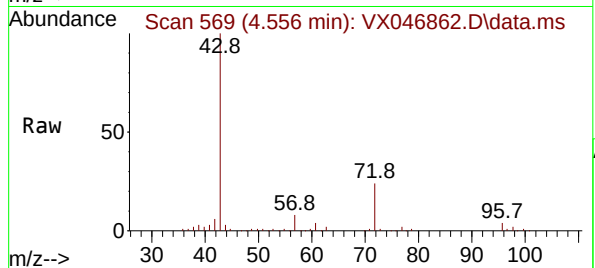
72 24.4 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#26

2,2-Dichloropropane

Concen: 19.767 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.006 min

Lab File: VX046862.D

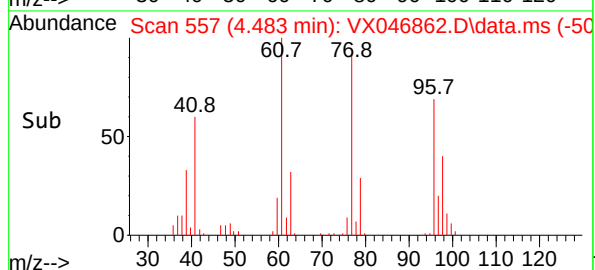
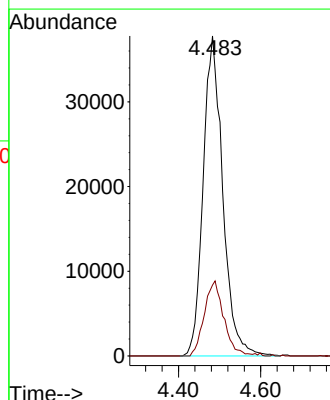
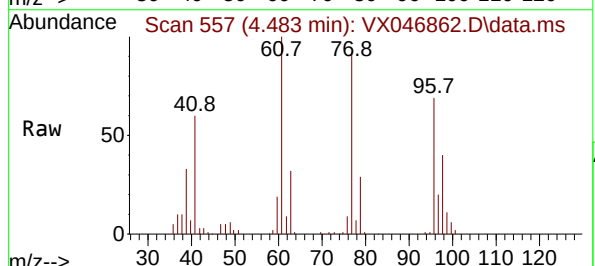
Acq: 02 Jul 2025 13:18

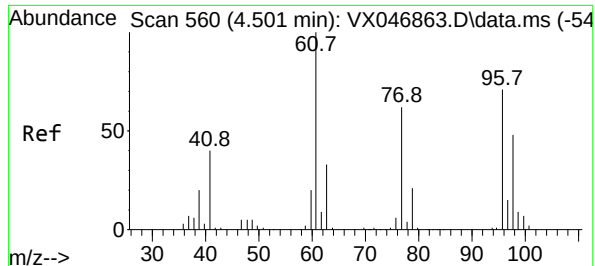
Tgt Ion: 77 Resp: 124894

Ion Ratio Lower Upper

77 100

97 23.4 11.5 34.5





#27

cis-1,2-Dichloroethene

Concen: 20.316 ug/l

RT: 4.495 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 96 Resp: 10984

Ion Ratio Lower Upper

96 100

61 145.0 0.0 288.6

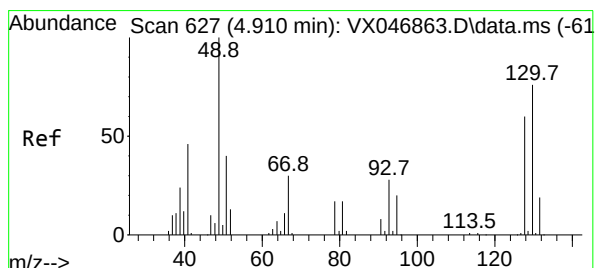
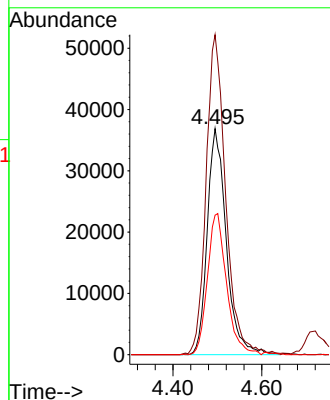
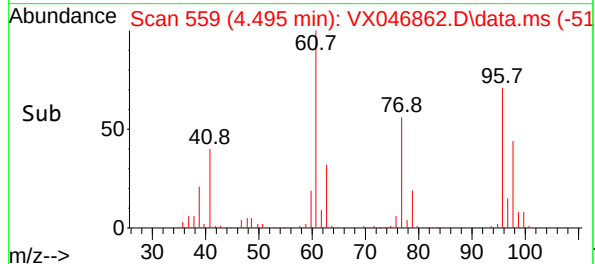
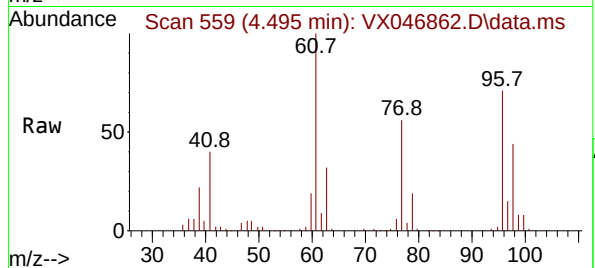
98 62.8 0.0 128.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#28

Bromochloromethane

Concen: 19.985 ug/l

RT: 4.903 min Scan# 626

Delta R.T. -0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

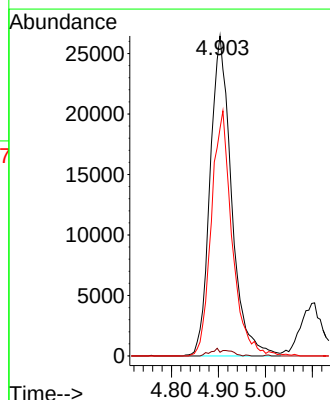
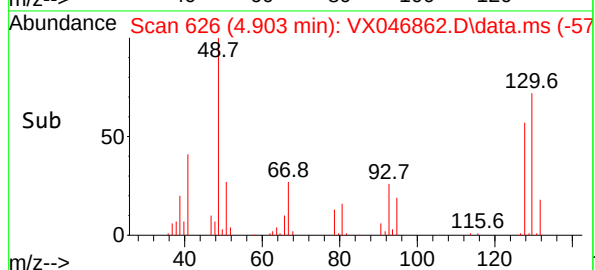
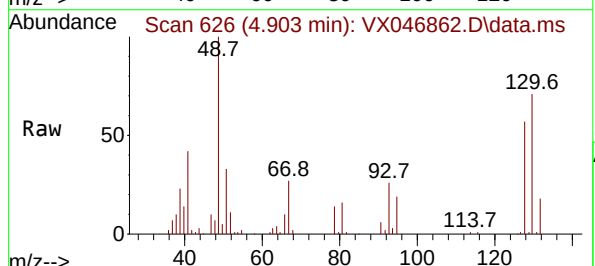
Tgt Ion: 49 Resp: 83733

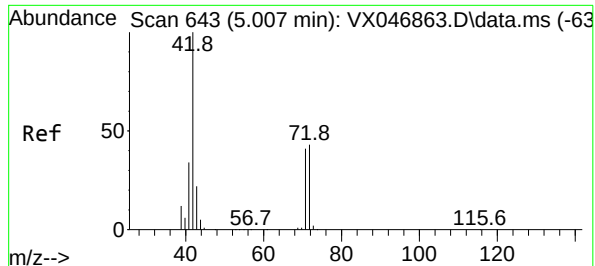
Ion Ratio Lower Upper

49 100

129 1.4 0.0 4.2

130 74.3 61.7 92.5





#29

Tetrahydrofuran

Concen: 99.493 ug/l

RT: 5.001 min Scan# 64

Delta R.T. -0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 42 Resp: 13858

Ion Ratio Lower Upper

42 100

72 43.9 35.1 52.7

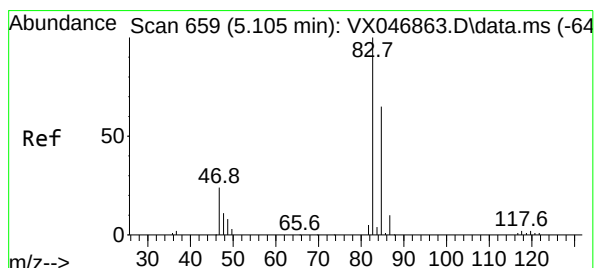
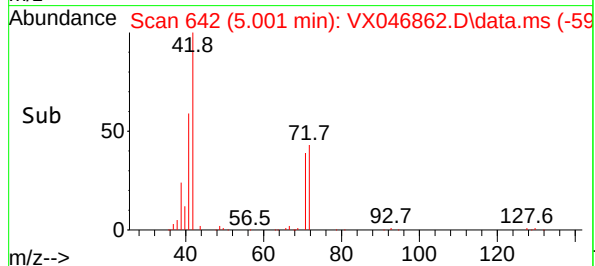
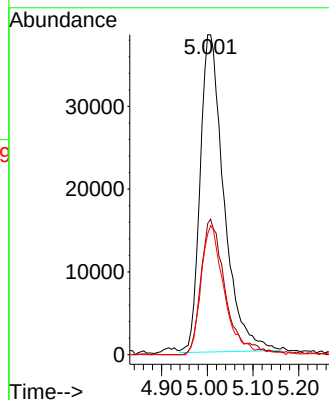
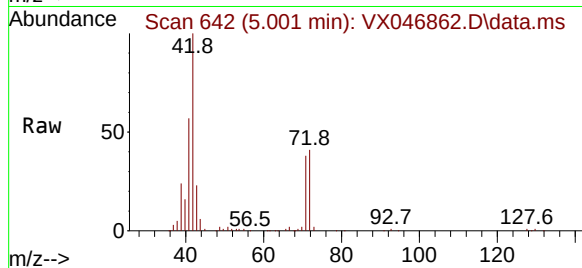
71 40.5 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#30

Chloroform

Concen: 20.470 ug/l

RT: 5.098 min Scan# 658

Delta R.T. -0.006 min

Lab File: VX046862.D

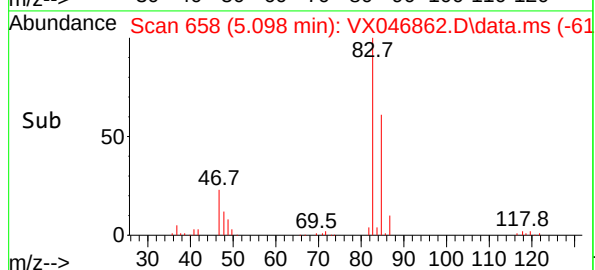
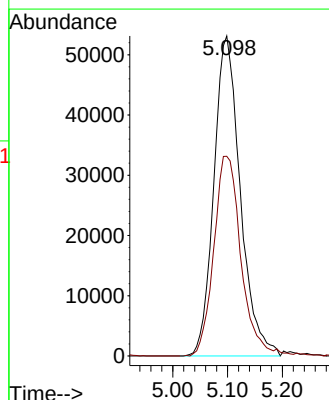
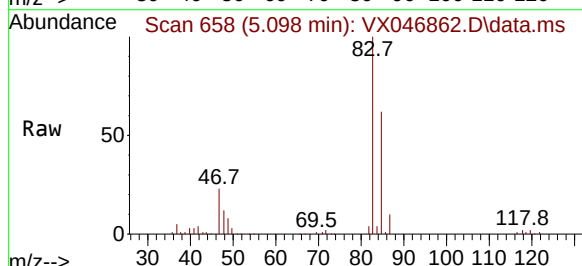
Acq: 02 Jul 2025 13:18

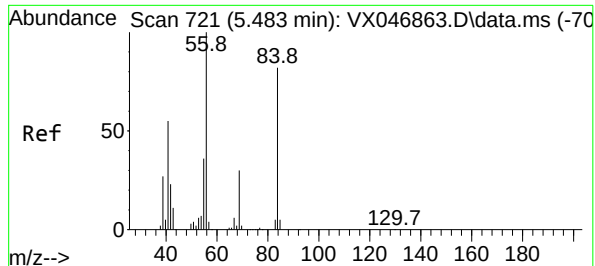
Tgt Ion: 83 Resp: 177543

Ion Ratio Lower Upper

83 100

85 62.4 51.8 77.8





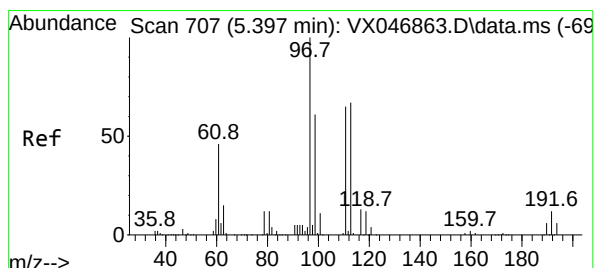
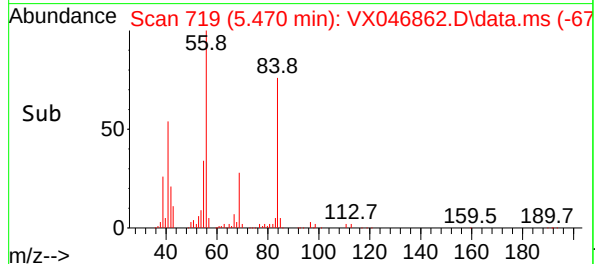
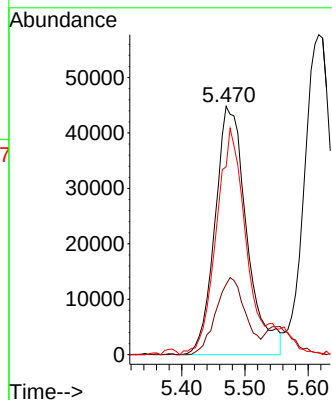
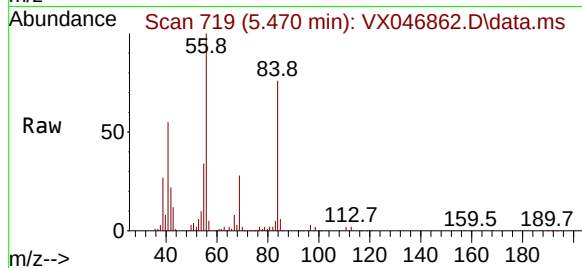
#31
Cyclohexane
Concen: 20.692 ug/l
RT: 5.470 min Scan# 719
Delta R.T. -0.013 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 56 Resp: 155952
Ion Ratio Lower Upper
56 100
69 28.0 24.0 36.0
84 75.7 66.5 99.7

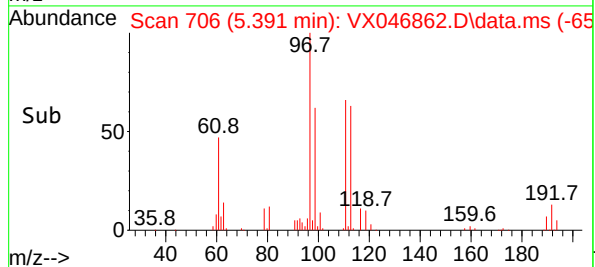
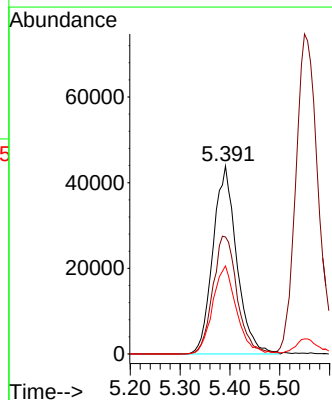
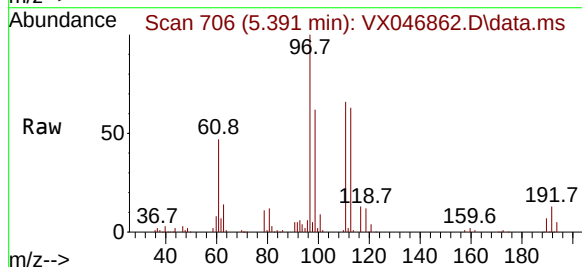
Manual Integrations
APPROVED

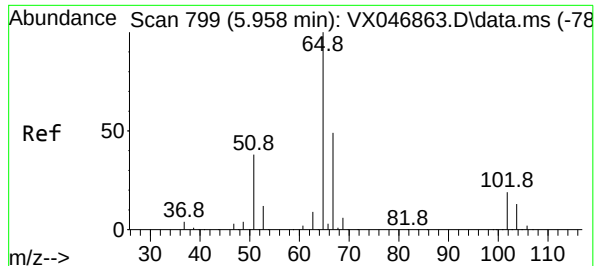
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#32
1,1,1-Trichloroethane
Concen: 20.005 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Tgt Ion: 97 Resp: 144962
Ion Ratio Lower Upper
97 100
99 64.5 50.6 76.0
61 47.2 36.3 54.5





#33

1,2-Dichloroethane-d4

Concen: 19.742 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 65 Resp: 10409

Ion Ratio Lower Upper

65 100

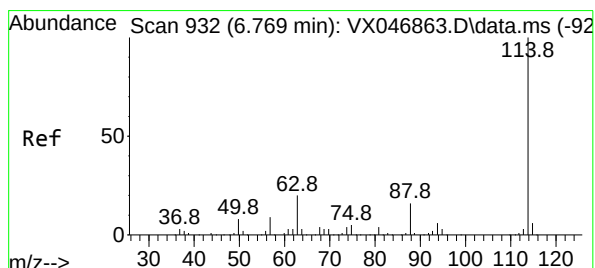
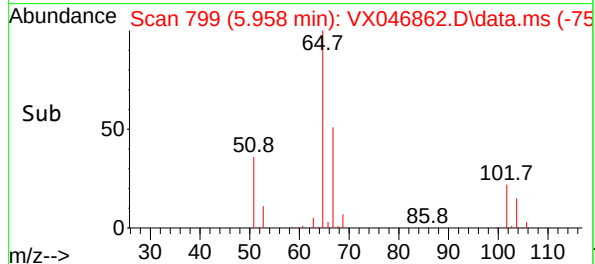
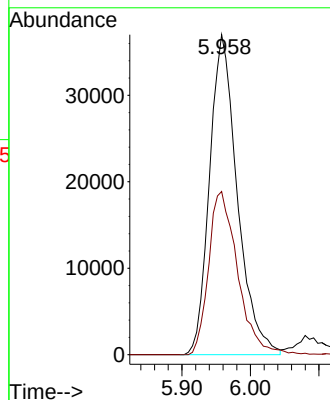
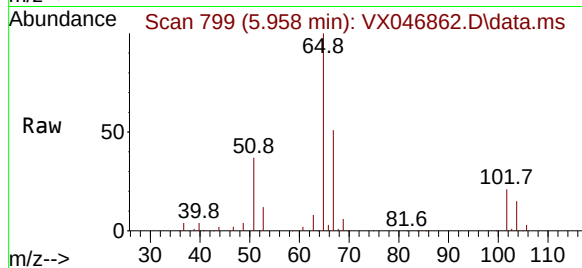
67 53.5 0.0 105.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

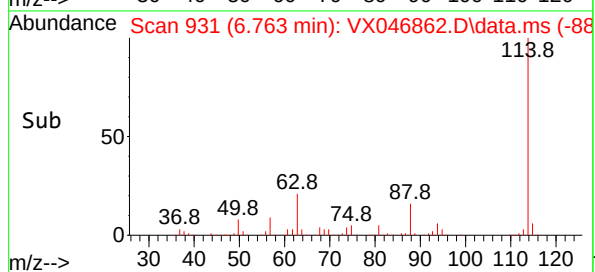
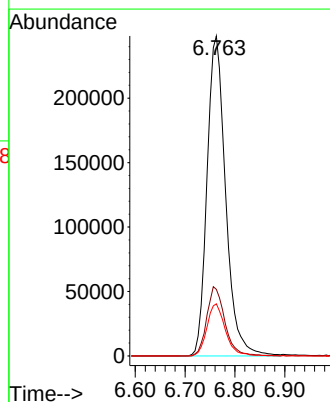
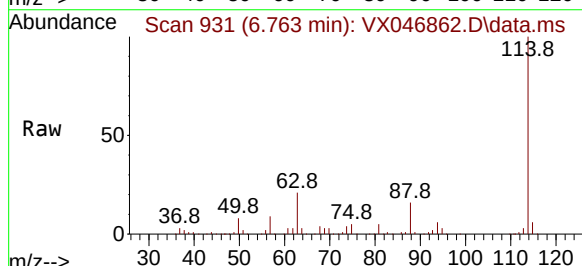
Tgt Ion:114 Resp: 642908

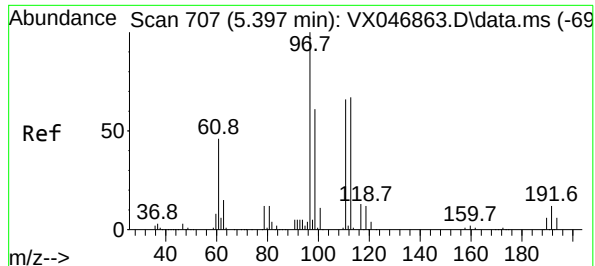
Ion Ratio Lower Upper

114 100

63 20.8 0.0 40.4

88 16.3 0.0 31.0





#35

Dibromofluoromethane

Concen: 20.362 ug/l

RT: 5.391 min Scan# 707

Delta R.T. -0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion:113 Resp: 8886

Ion Ratio Lower Upper

113 100

111 104.2 81.2 121.8

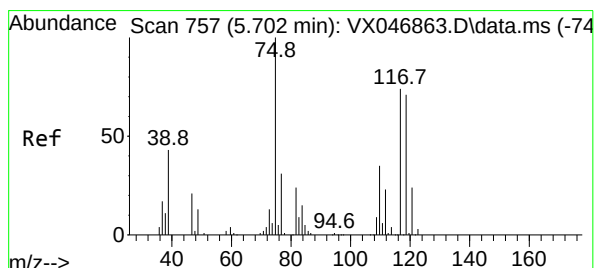
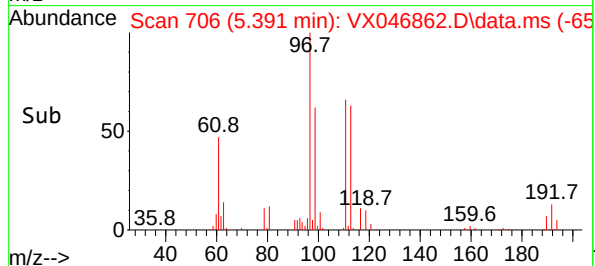
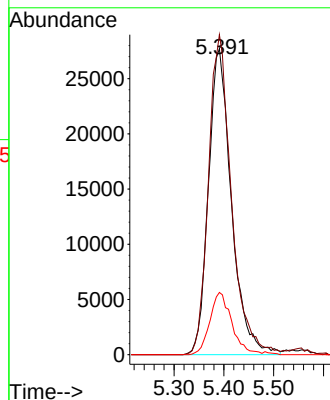
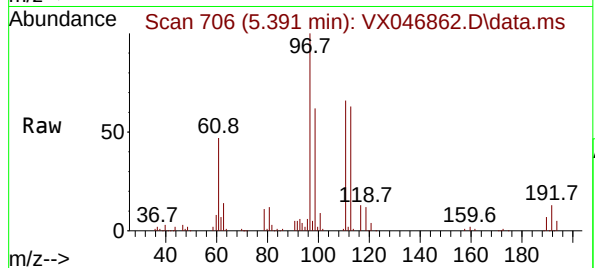
192 19.4 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#36

1,1-Dichloropropene

Concen: 20.144 ug/l

RT: 5.702 min Scan# 757

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

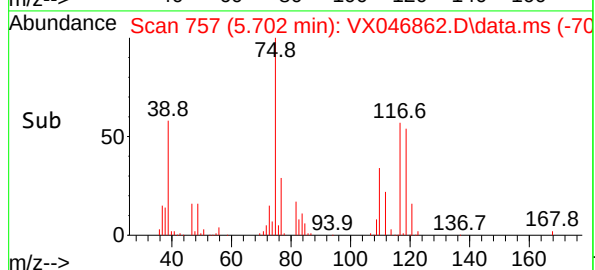
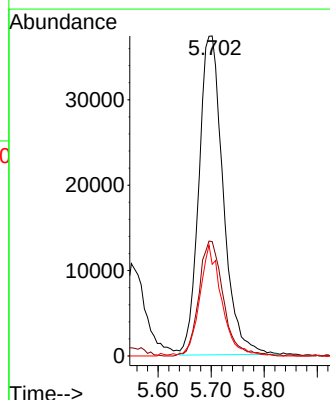
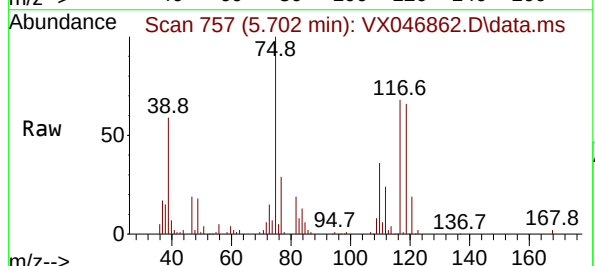
Tgt Ion: 75 Resp: 118611

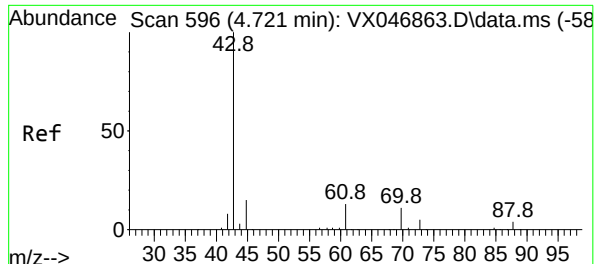
Ion Ratio Lower Upper

75 100

110 36.3 17.3 51.9

77 31.8 24.2 36.4





#37

Ethyl Acetate

Concen: 19.013 ug/l

RT: 4.720 min Scan# 596

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

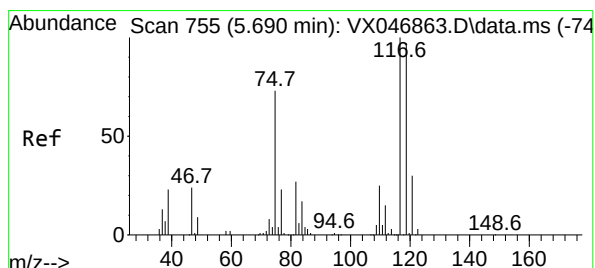
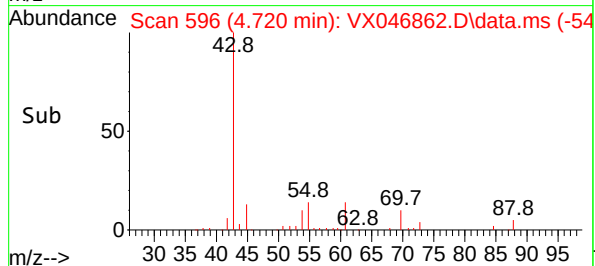
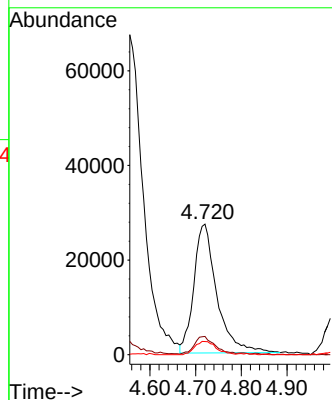
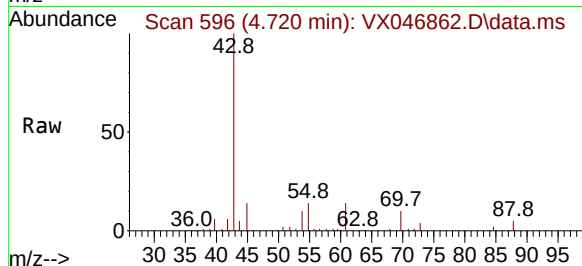
VSTDIC020

Tgt Ion:	43	Resp:	9535
Ion	Ratio	Lower	Upper
43	100		
61	12.0	9.7	14.5
70	9.6	8.3	12.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#38

Carbon Tetrachloride

Concen: 20.188 ug/l

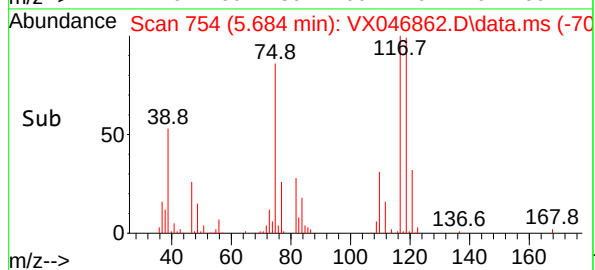
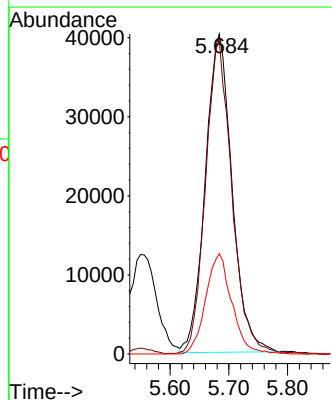
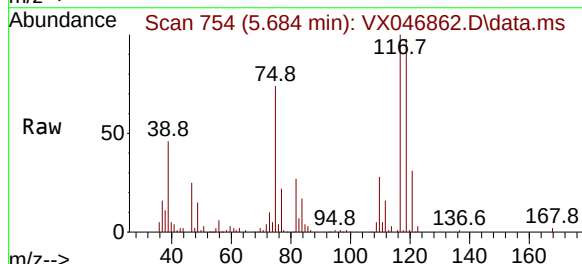
RT: 5.684 min Scan# 754

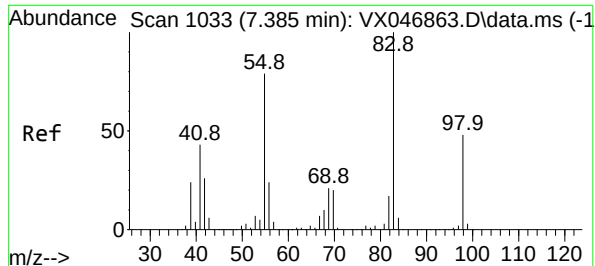
Delta R.T. -0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Tgt Ion:	117	Resp:	127307
Ion	Ratio	Lower	Upper
117	100		
119	98.5	76.6	114.8
121	31.6	24.1	36.1





#39

Methylcyclohexane

Concen: 20.582 ug/l

RT: 7.378 min Scan# 1032

Delta R.T. -0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 83 Resp: 15159

Ion Ratio Lower Upper

83 100

55 82.2 63.0 94.4

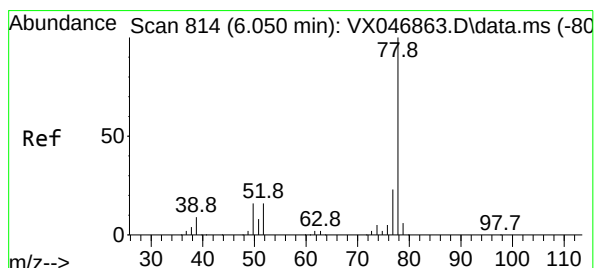
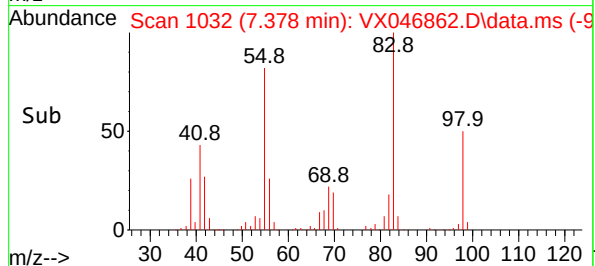
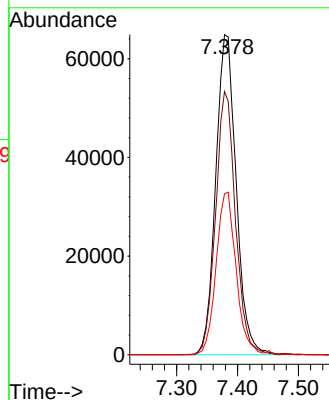
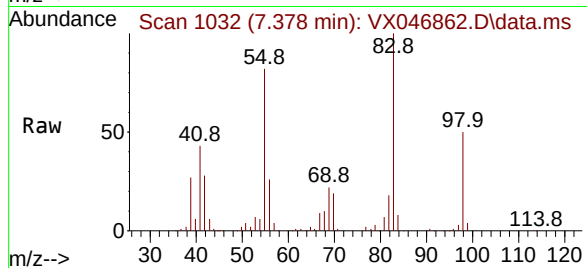
98 50.3 38.5 57.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#40

Benzene

Concen: 20.968 ug/l

RT: 6.043 min Scan# 813

Delta R.T. -0.006 min

Lab File: VX046862.D

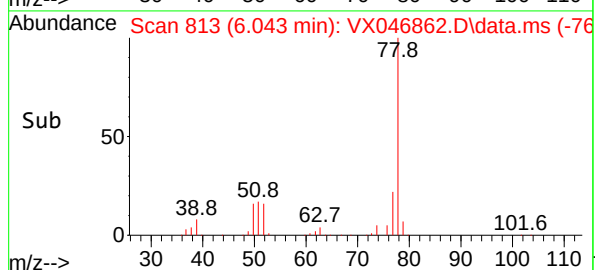
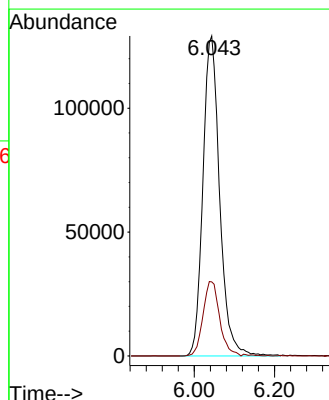
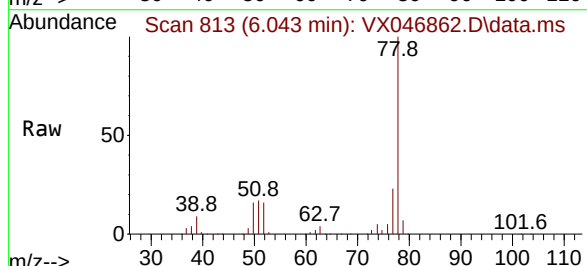
Acq: 02 Jul 2025 13:18

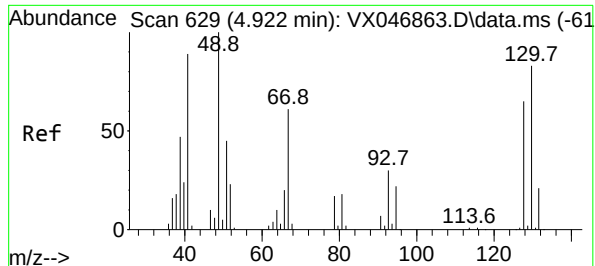
Tgt Ion: 78 Resp: 373429

Ion Ratio Lower Upper

78 100

77 23.2 18.7 28.1





#41

Methacrylonitrile

Concen: 21.358 ug/l

RT: 4.922 min Scan# 61

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 41 Resp: 5713

Ion Ratio Lower Upper

41 100

39 56.8 43.0 64.4

67 69.3 60.2 90.2

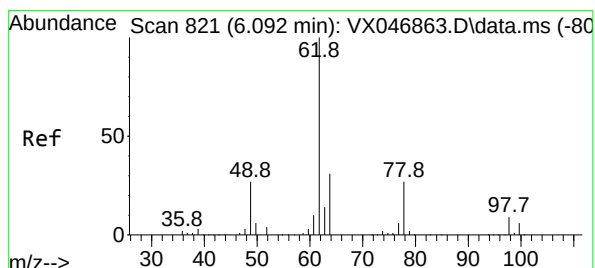
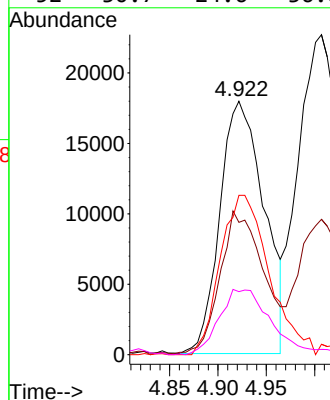
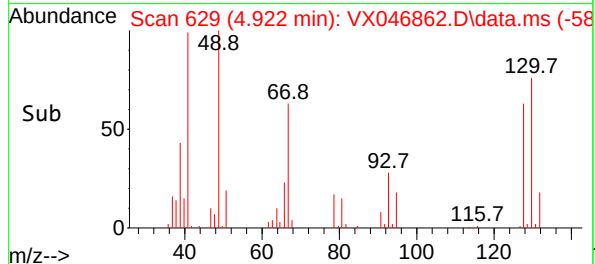
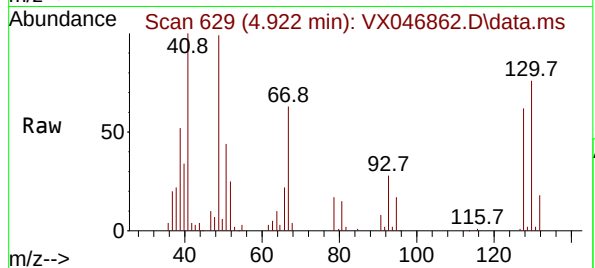
52 30.7 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#42

1,2-Dichloroethane

Concen: 20.689 ug/l

RT: 6.086 min Scan# 820

Delta R.T. -0.006 min

Lab File: VX046862.D

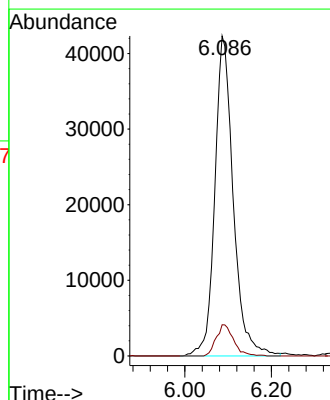
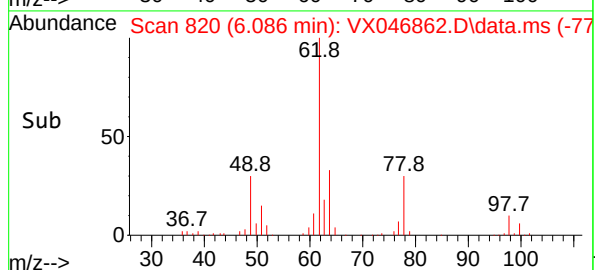
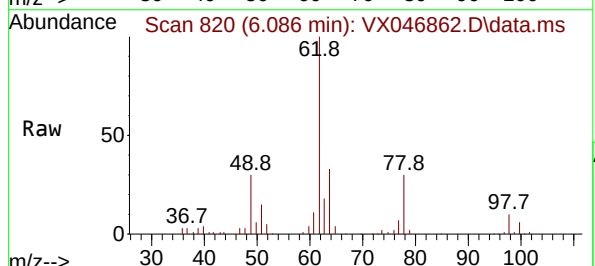
Acq: 02 Jul 2025 13:18

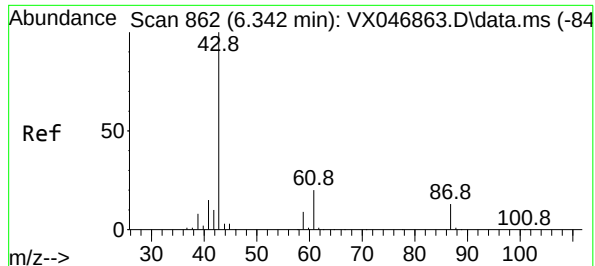
Tgt Ion: 62 Resp: 125114

Ion Ratio Lower Upper

62 100

98 9.3 0.0 19.4





#43

Isopropyl Acetate

Concen: 20.519 ug/l

RT: 6.336 min Scan# 861

Delta R.T. -0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 15761

Ion Ratio Lower Upper

43 100

61 19.8 15.7 23.5

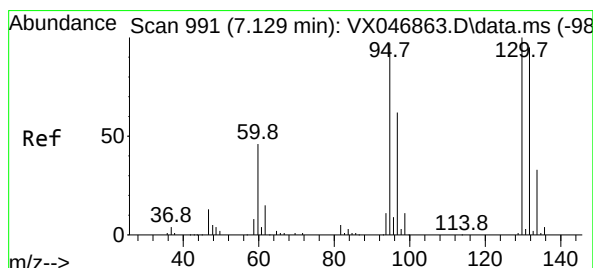
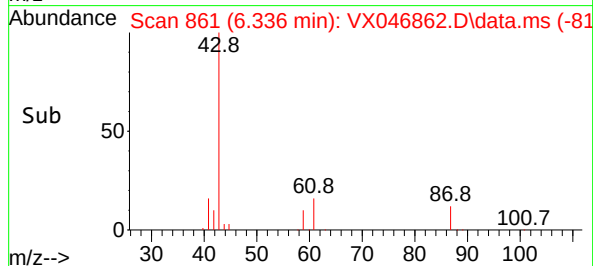
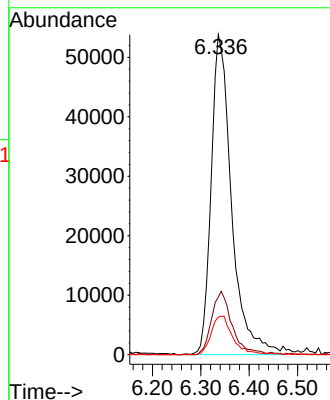
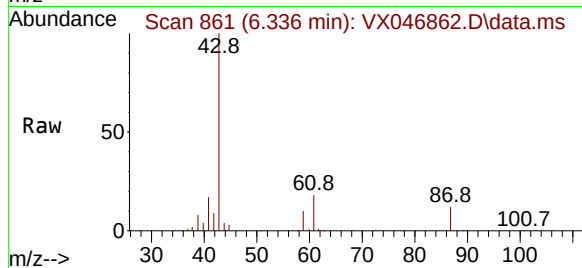
87 12.6 10.1 15.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#44

Trichloroethene

Concen: 20.221 ug/l

RT: 7.128 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX046862.D

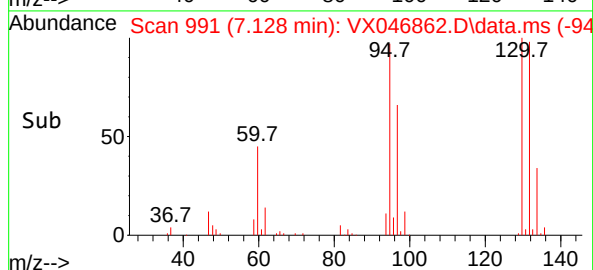
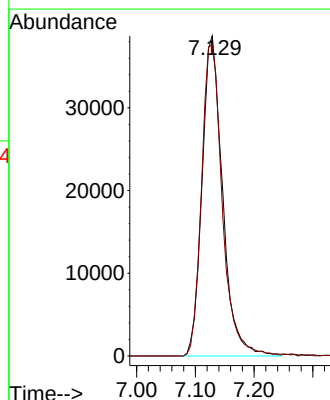
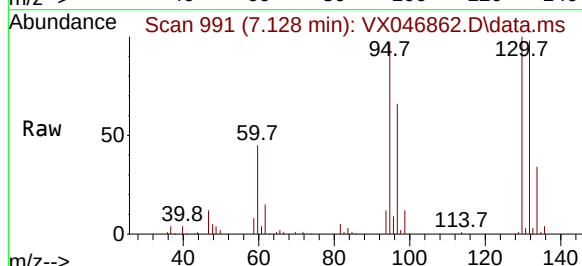
Acq: 02 Jul 2025 13:18

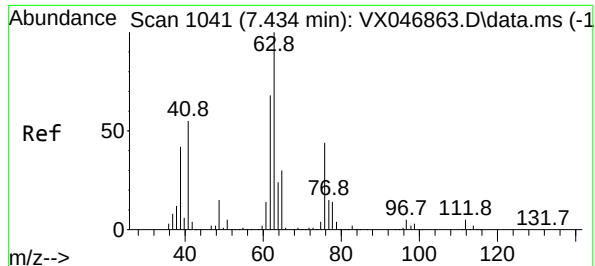
Tgt Ion:130 Resp: 93746

Ion Ratio Lower Upper

130 100

95 97.2 0.0 194.2





#45

1,2-Dichloropropane

Concen: 20.714 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 9320

Ion Ratio Lower Upper

63 100

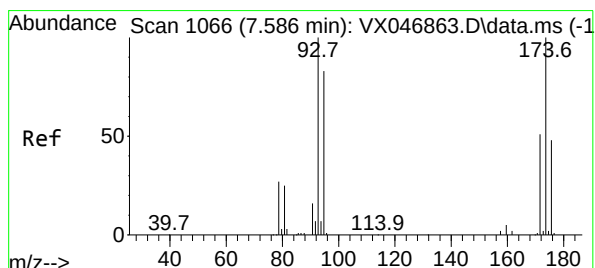
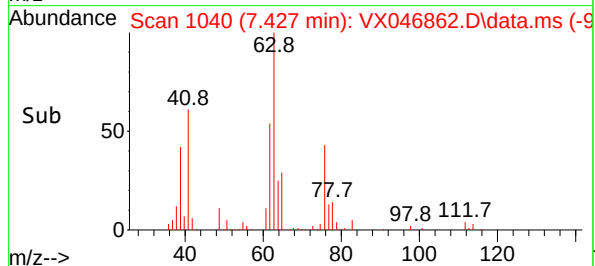
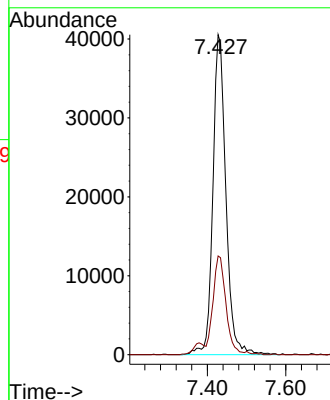
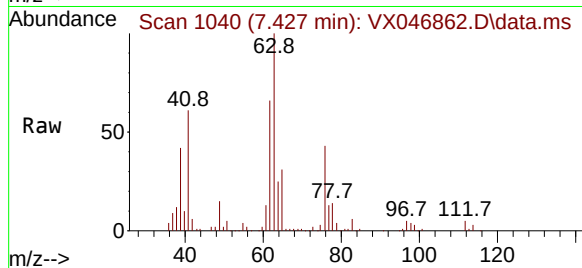
65 30.9 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#46

Dibromomethane

Concen: 20.612 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

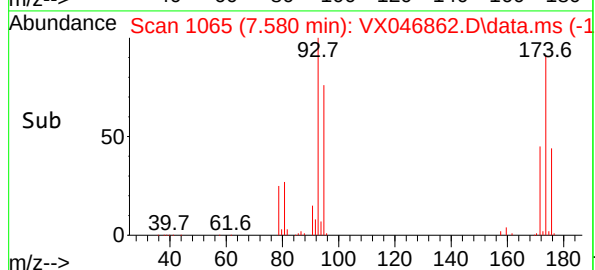
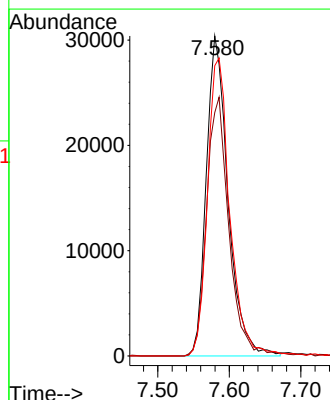
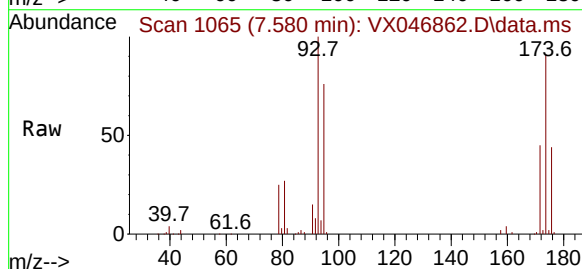
Tgt Ion: 93 Resp: 64260

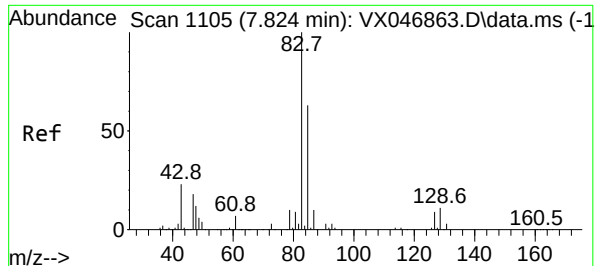
Ion Ratio Lower Upper

93 100

95 83.3 66.6 99.8

174 96.0 77.4 116.2





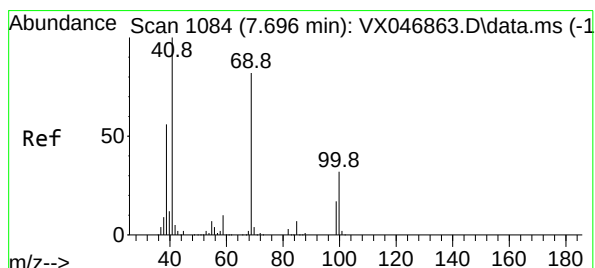
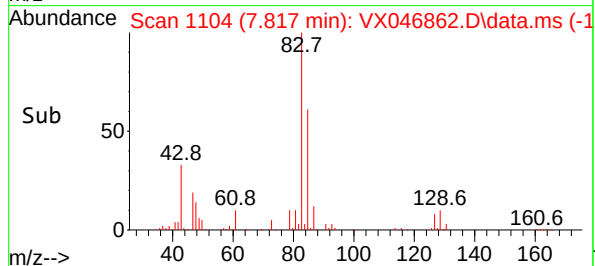
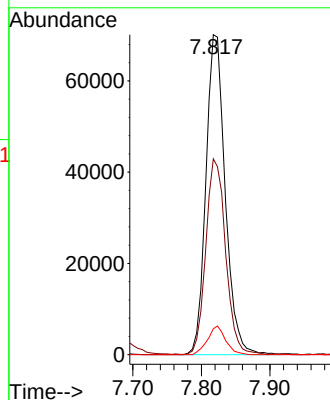
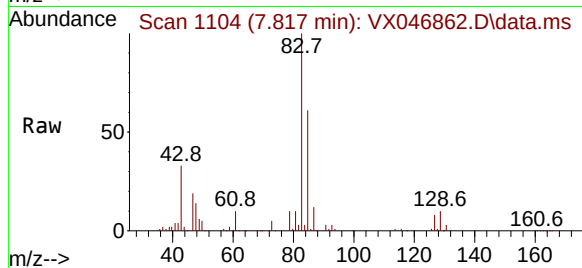
#47
Bromodichloromethane
Concen: 20.670 ug/l
RT: 7.817 min Scan# 1104
Delta R.T. -0.006 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 137600
Ion Ratio Lower Upper
83 100
85 61.1 50.2 75.4
127 8.1 7.1 10.7

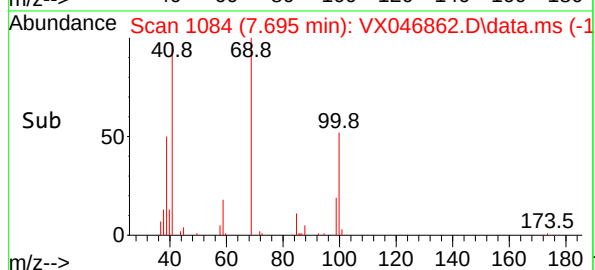
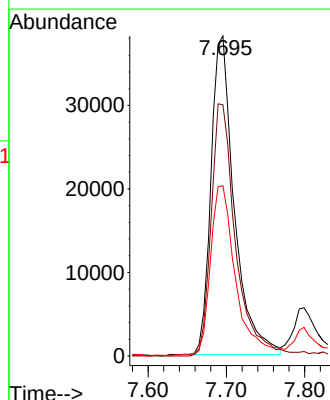
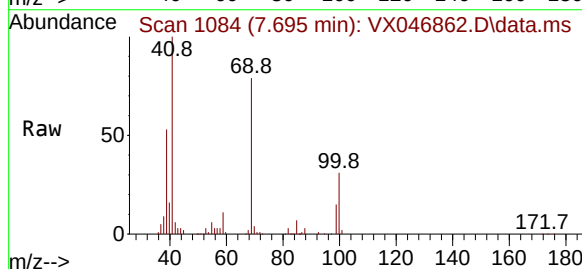
Manual Integrations
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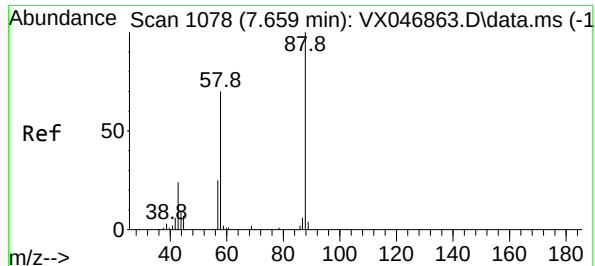
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#48
Methyl methacrylate
Concen: 19.892 ug/l
RT: 7.695 min Scan# 1084
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Tgt Ion: 41 Resp: 78897
Ion Ratio Lower Upper
41 100
69 83.5 65.8 98.8
39 58.4 43.8 65.6





#49

1,4-Dioxane

Concen: 411.405 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

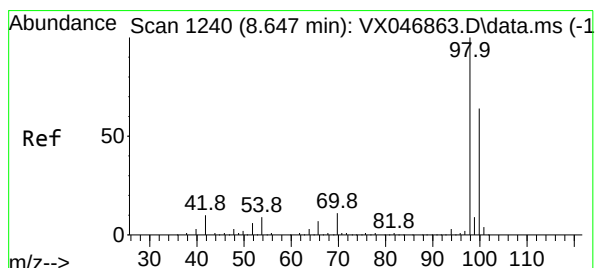
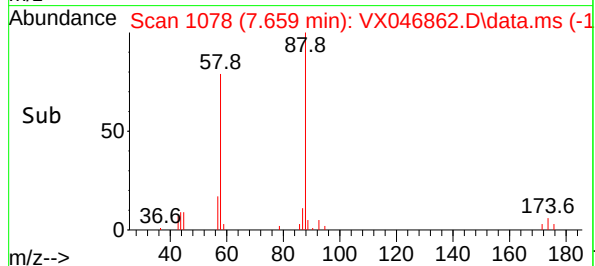
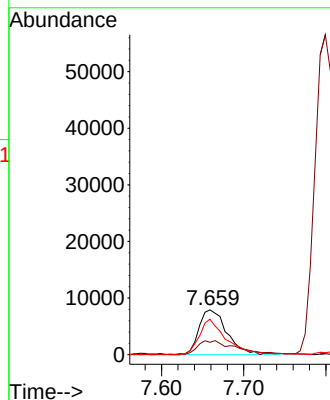
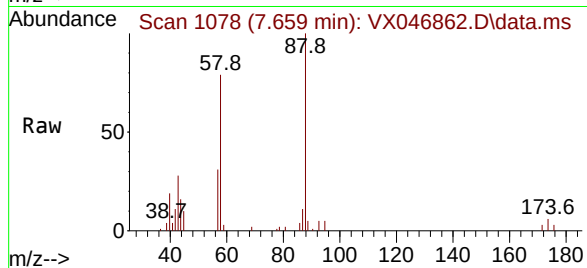
VSTDIC020

Tgt Ion: 88 Resp: 18907
Ion Ratio Lower Upper
88 100
43 39.9 31.7 47.5
58 76.0 57.5 86.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#50

Toluene-d8

Concen: 20.369 ug/l

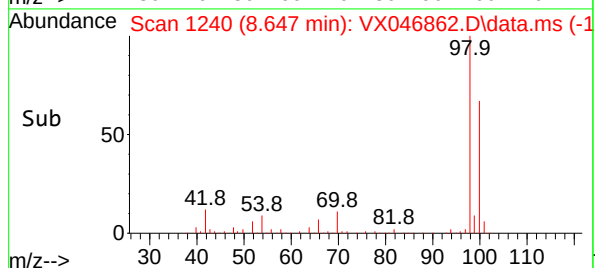
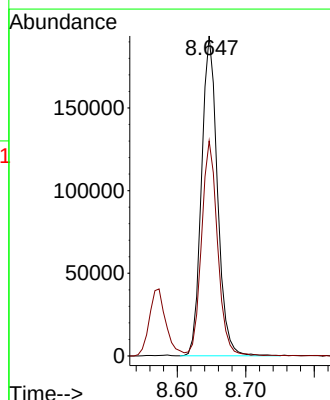
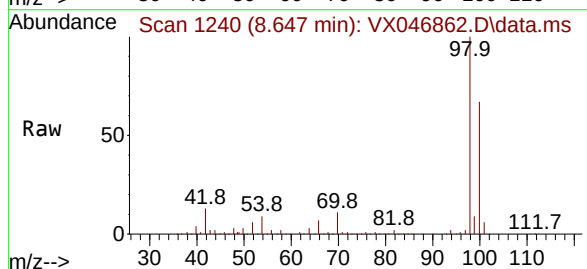
RT: 8.647 min Scan# 1240

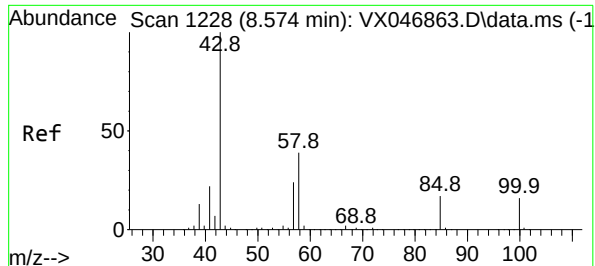
Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Tgt Ion: 98 Resp: 313624
Ion Ratio Lower Upper
98 100
100 67.7 53.0 79.6





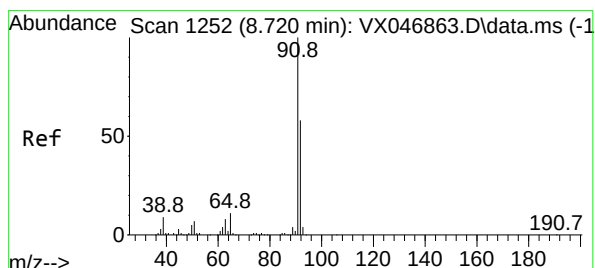
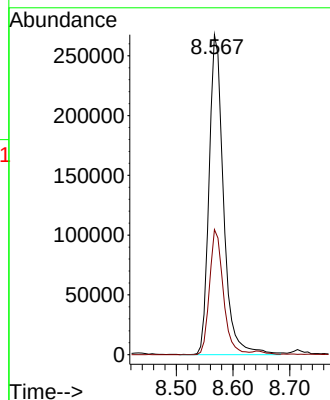
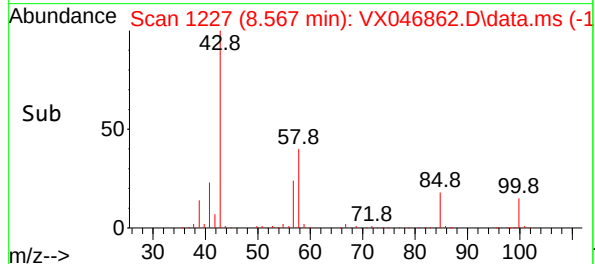
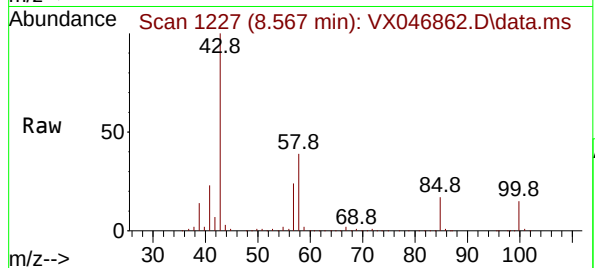
#51
4-Methyl-2-Pentanone
Concen: 104.508 ug/l
RT: 8.567 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 47377
Ion Ratio Lower Upper
43 100
58 37.3 30.4 45.6

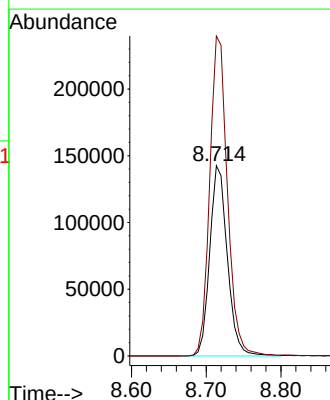
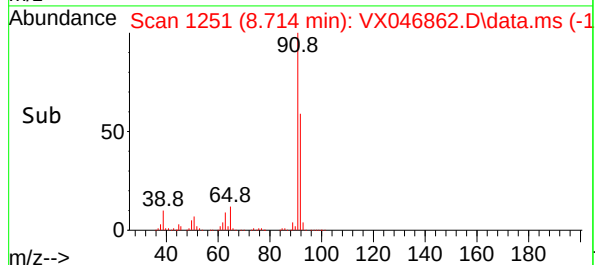
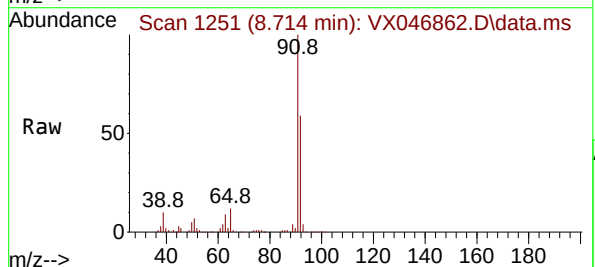
Manual Integrations
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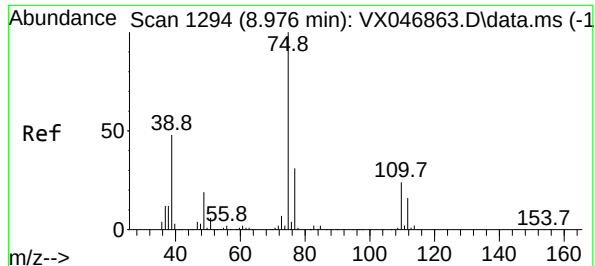
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#52
Toluene
Concen: 21.102 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.006 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Tgt Ion: 92 Resp: 232882
Ion Ratio Lower Upper
92 100
91 169.8 137.9 206.9





#53

t-1,3-Dichloropropene

Concen: 20.206 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 75 Resp: 120040

Ion Ratio Lower Upper

75 100

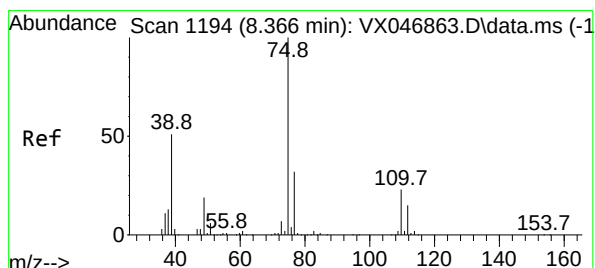
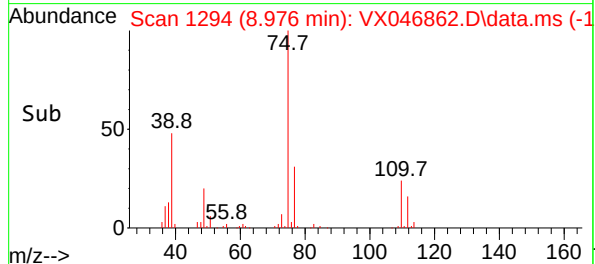
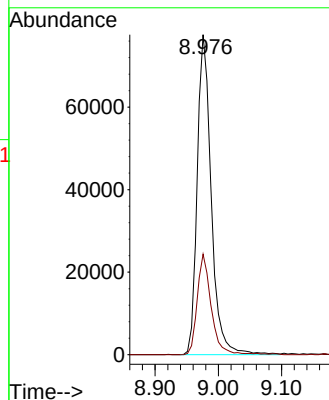
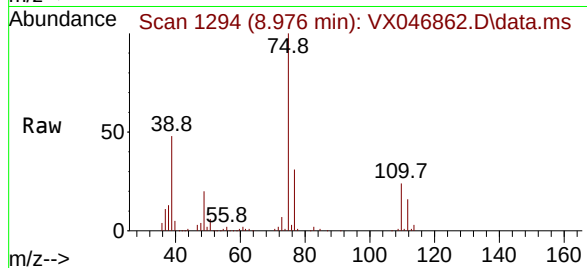
77 31.4 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#54

cis-1,3-Dichloropropene

Concen: 20.187 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

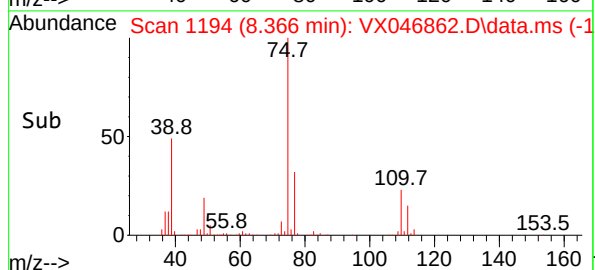
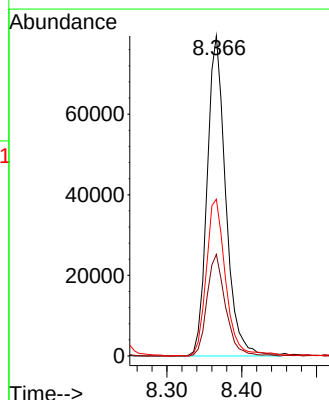
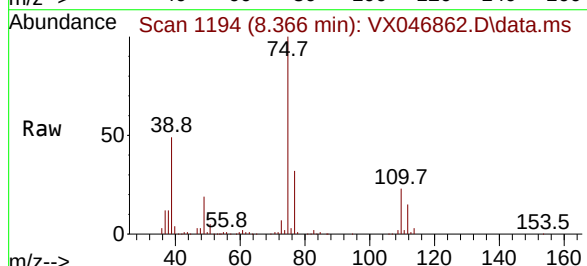
Tgt Ion: 75 Resp: 136889

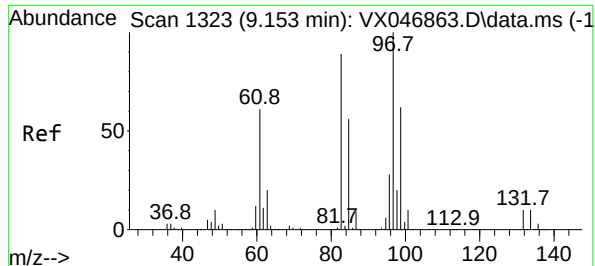
Ion Ratio Lower Upper

75 100

77 31.8 25.4 38.2

39 48.8 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 20.545 ug/l

RT: 9.146 min Scan# 1323

Delta R.T. -0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 97 Resp: 8445

Ion Ratio Lower Upper

97 100

83 84.2 70.9 106.3

85 54.1 44.6 67.0

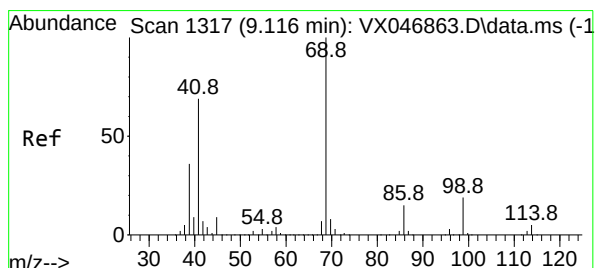
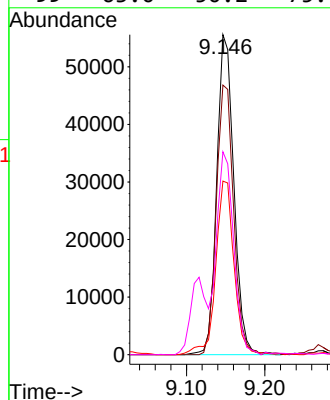
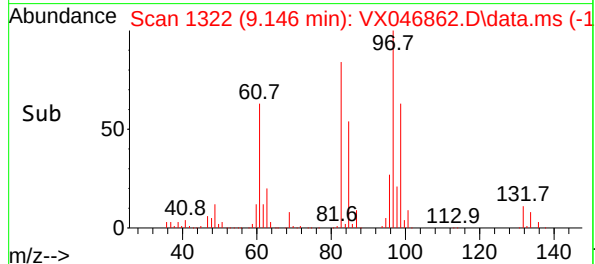
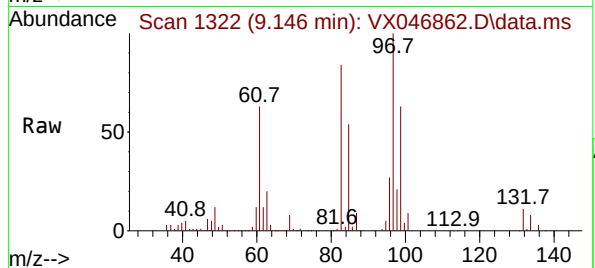
99 63.0 50.2 75.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#56

Ethyl methacrylate

Concen: 20.200 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

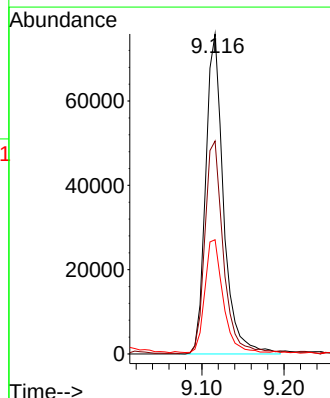
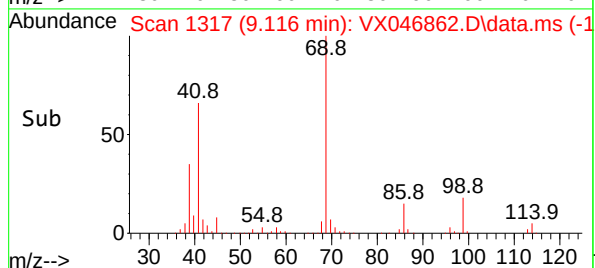
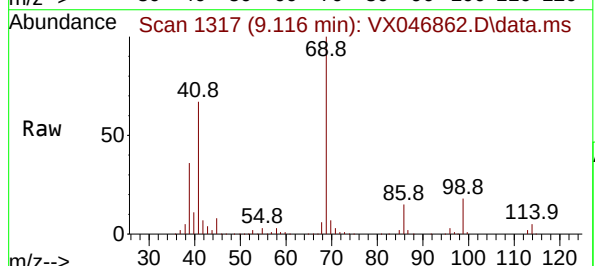
Tgt Ion: 69 Resp: 114929

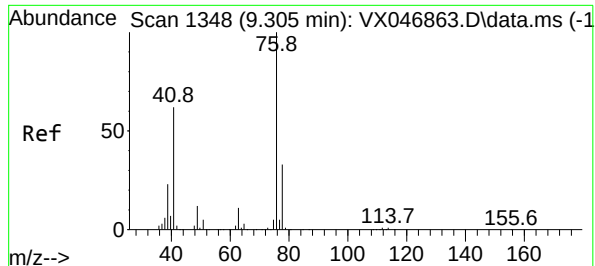
Ion Ratio Lower Upper

69 100

41 69.6 54.6 82.0

39 35.8 28.7 43.1





#57

1,3-Dichloropropane

Concen: 20.795 ug/l

RT: 9.305 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 14719

Ion Ratio Lower Upper

76 100

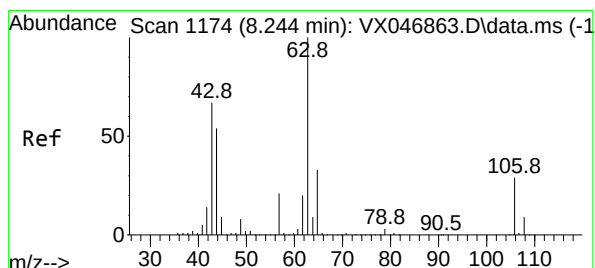
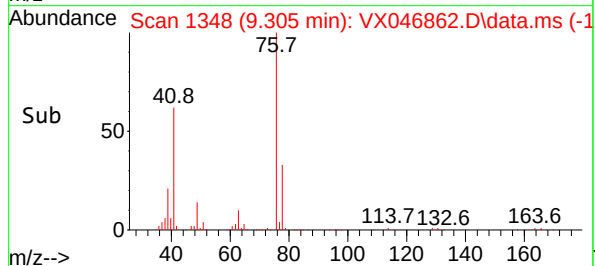
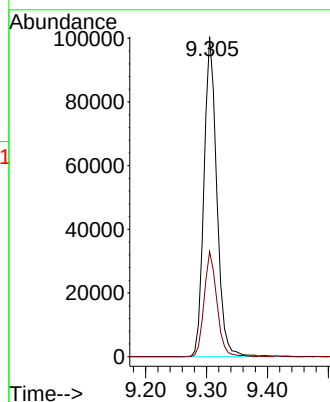
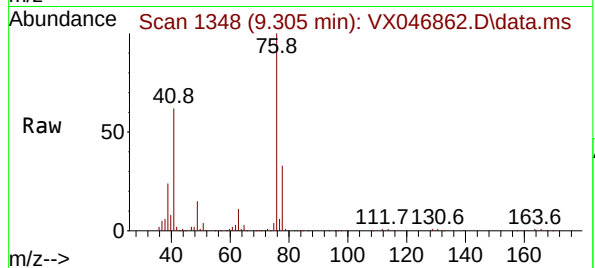
78 32.6 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#58

2-Chloroethyl Vinyl ether

Concen: 103.298 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.006 min

Lab File: VX046862.D

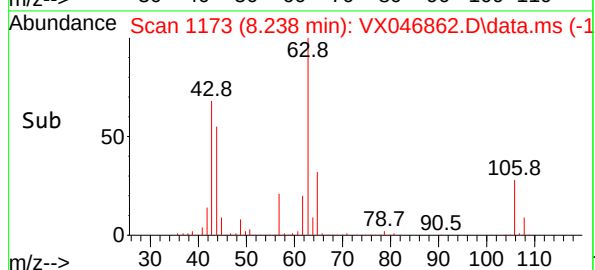
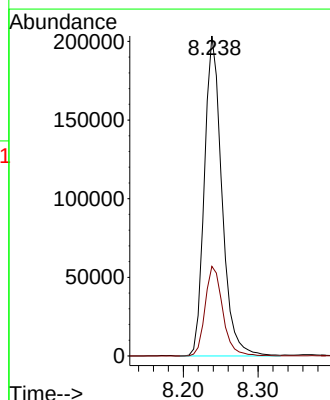
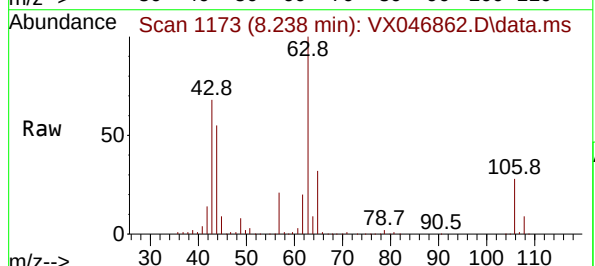
Acq: 02 Jul 2025 13:18

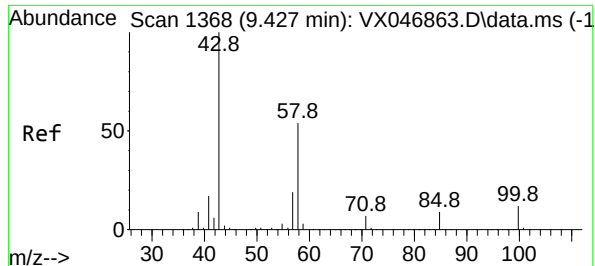
Tgt Ion: 63 Resp: 331143

Ion Ratio Lower Upper

63 100

106 28.1 22.6 33.8





#59

2-Hexanone

Concen: 104.602 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 31453

Ion Ratio Lower Upper

43 100

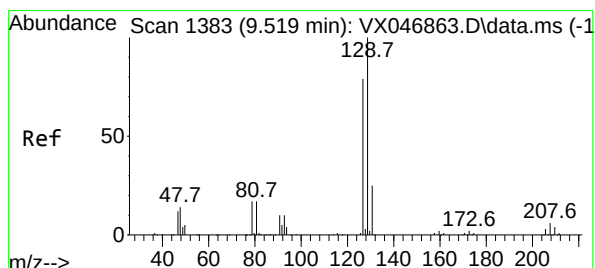
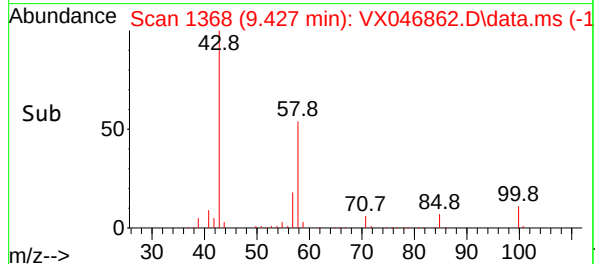
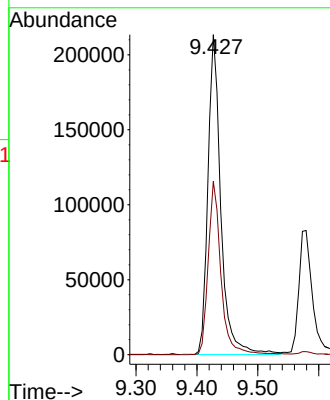
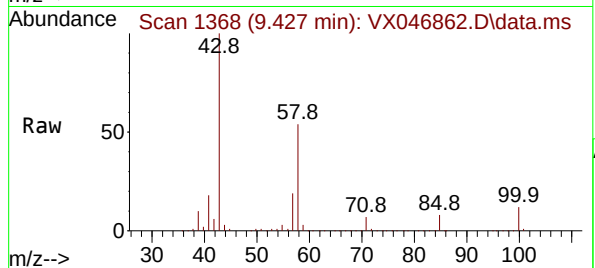
58 53.8 27.1 81.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#60

Dibromochloromethane

Concen: 20.523 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX046862.D

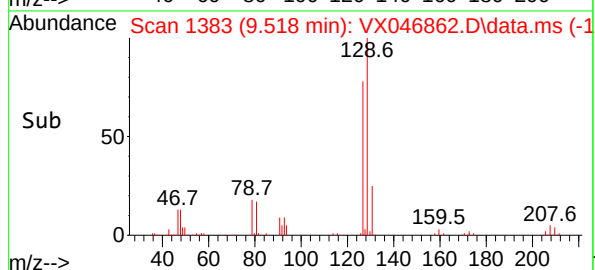
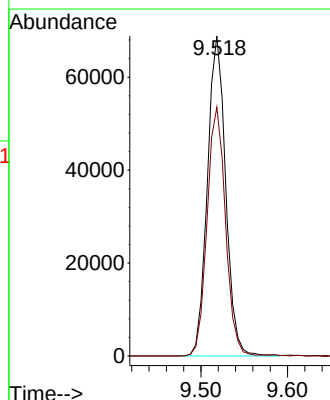
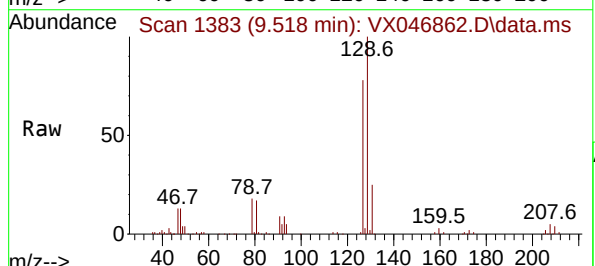
Acq: 02 Jul 2025 13:18

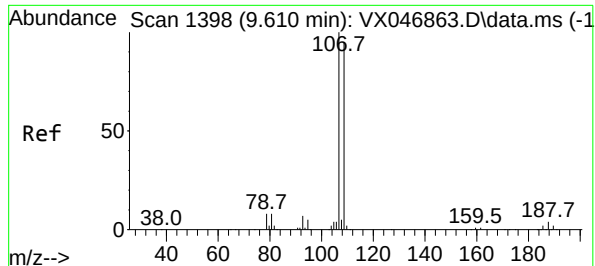
Tgt Ion:129 Resp: 100960

Ion Ratio Lower Upper

129 100

127 78.5 39.1 117.5





#61

1,2-Dibromoethane

Concen: 20.672 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:107 Resp: 8534

Ion Ratio Lower Upper

107 100

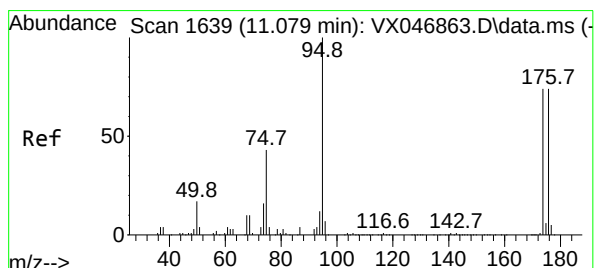
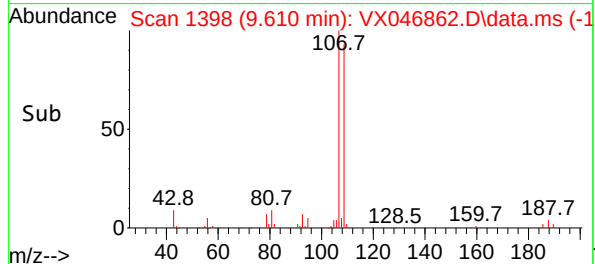
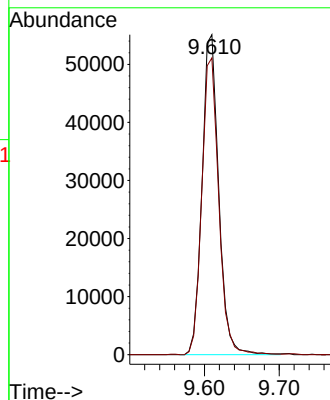
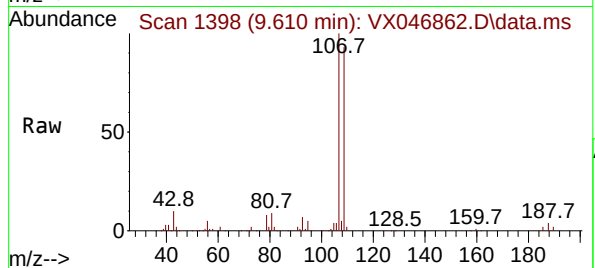
109 94.4 75.4 113.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#62

4-Bromofluorobenzene

Concen: 20.601 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

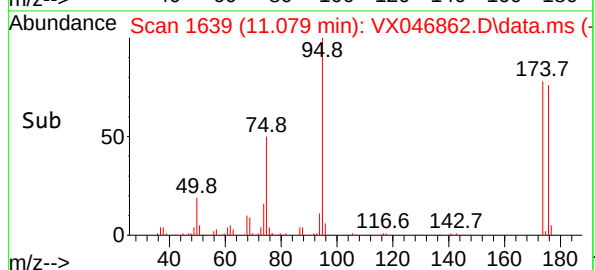
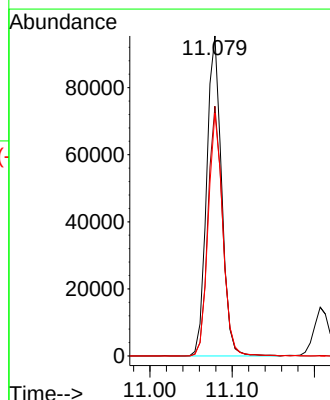
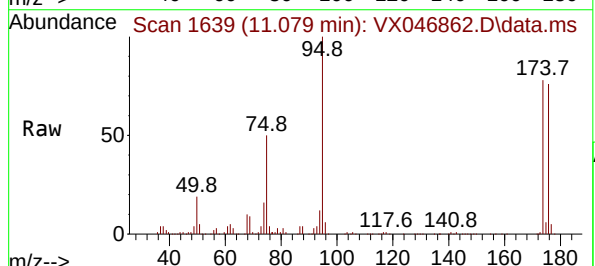
Tgt Ion: 95 Resp: 120554

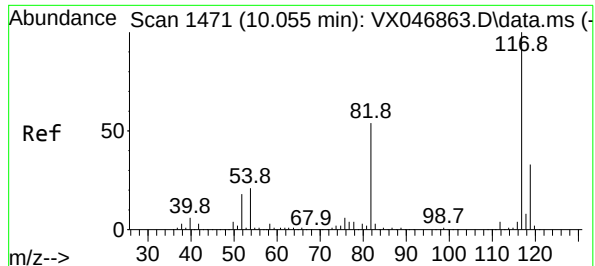
Ion Ratio Lower Upper

95 100

174 76.2 0.0 152.0

176 74.4 0.0 145.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

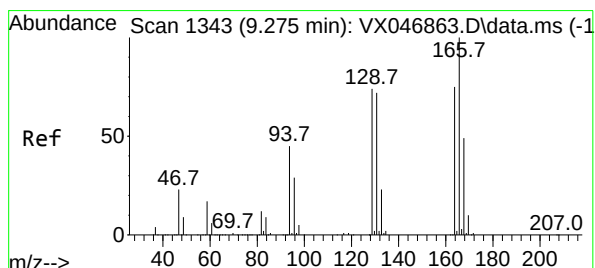
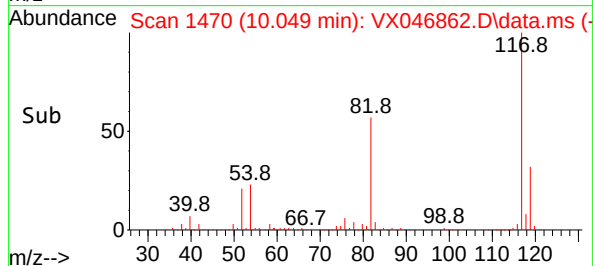
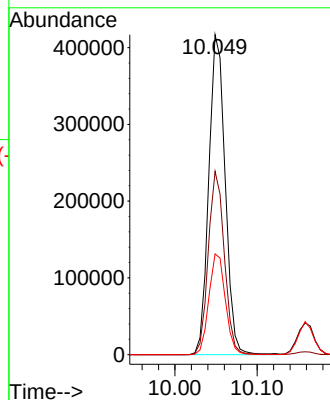
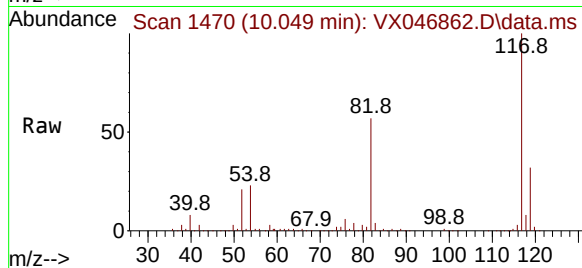
VSTDICC020

Tgt Ion:	117	Resp:	576289
Ion	Ratio	Lower	Upper
117	100		
82	57.3	43.3	64.9
119	31.5	26.4	39.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#64

Tetrachloroethene

Concen: 20.740 ug/l

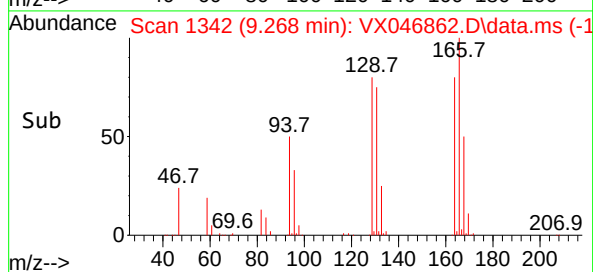
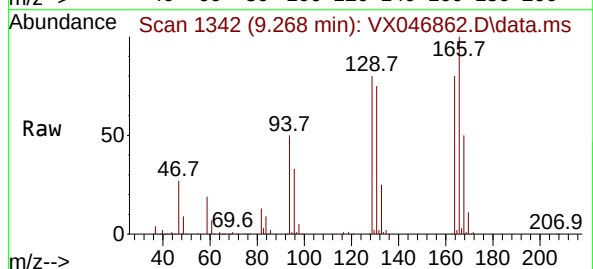
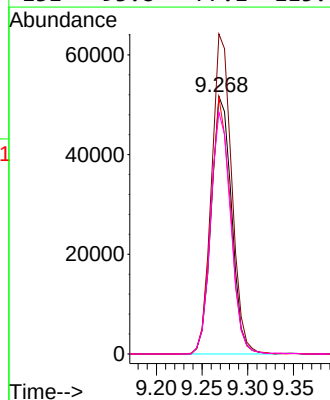
RT: 9.268 min Scan# 1342

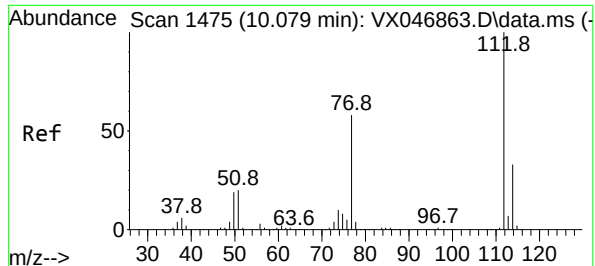
Delta R.T. -0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Tgt Ion:	164	Resp:	79577
Ion	Ratio	Lower	Upper
164	100		
166	124.2	107.0	160.6
129	99.6	79.7	119.5
131	93.8	77.1	115.7





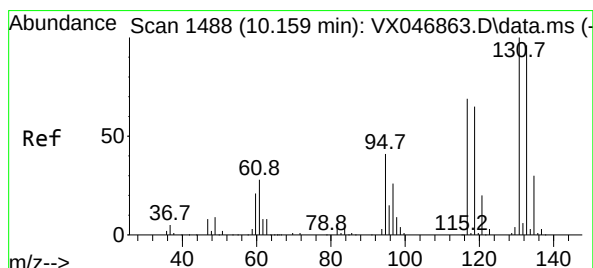
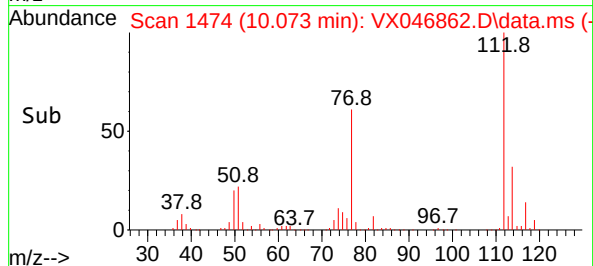
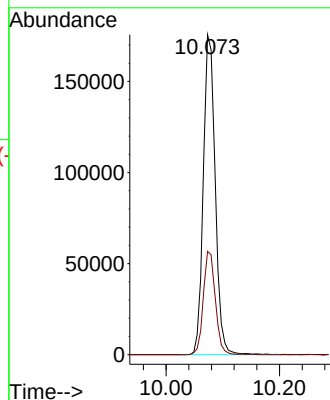
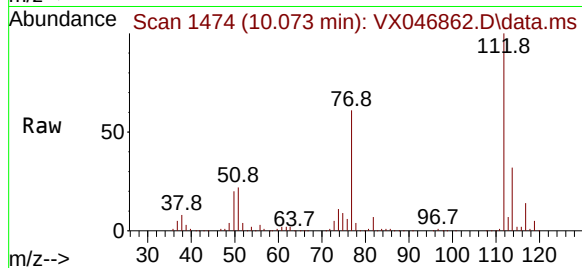
#65
Chlorobenzene
Concen: 20.586 ug/l
RT: 10.073 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 25649
Ion Ratio Lower Upper
112 100
114 32.3 26.3 39.5

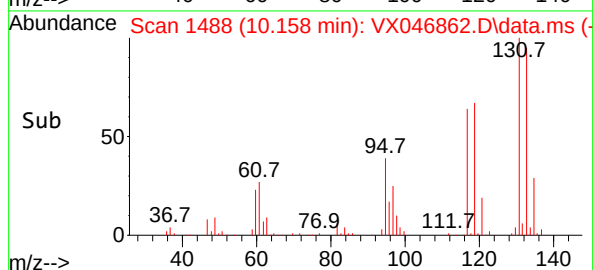
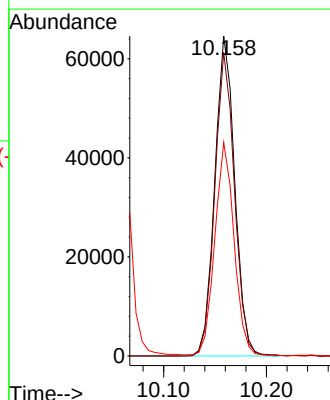
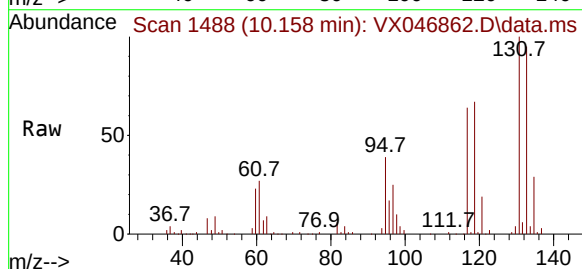
Manual Integrations
APPROVED

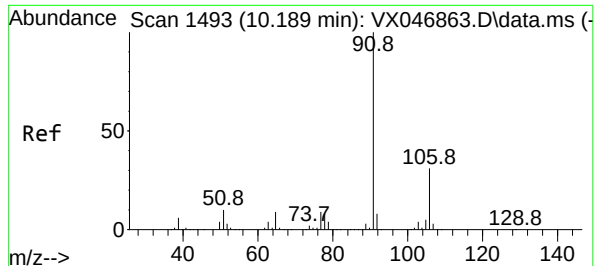
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 20.724 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Tgt Ion:131 Resp: 86804
Ion Ratio Lower Upper
131 100
133 94.1 47.6 142.9
119 64.7 32.4 97.2





#67

Ethyl Benzene

Concen: 20.841 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 444690

Ion Ratio Lower Upper

91 100

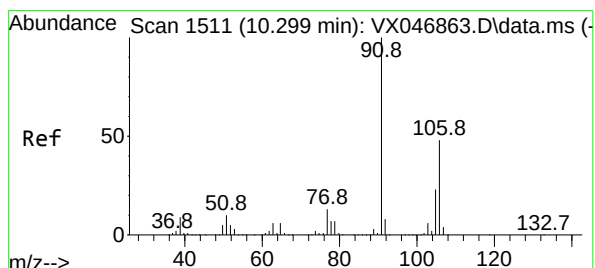
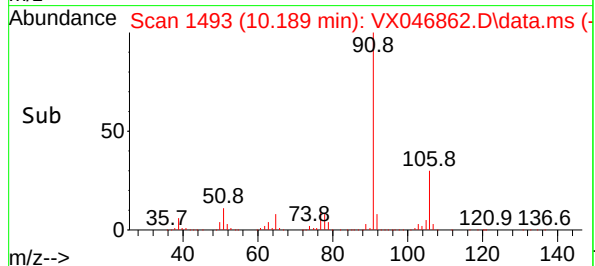
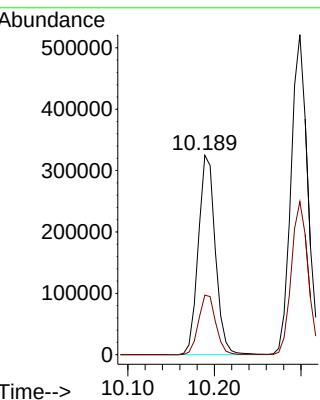
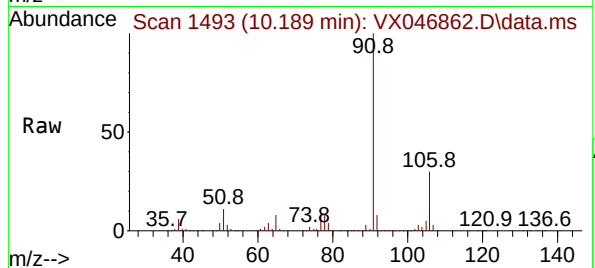
106 29.9 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#68

m/p-Xylenes

Concen: 41.924 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX046862.D

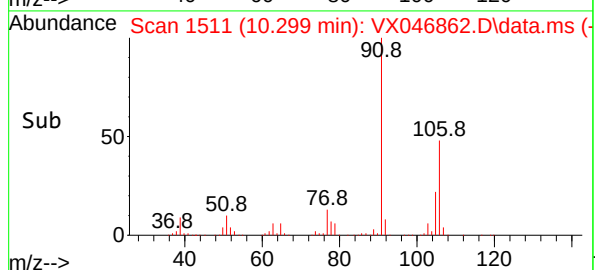
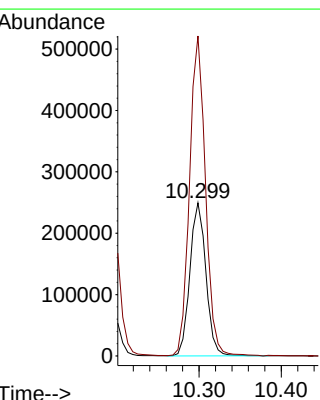
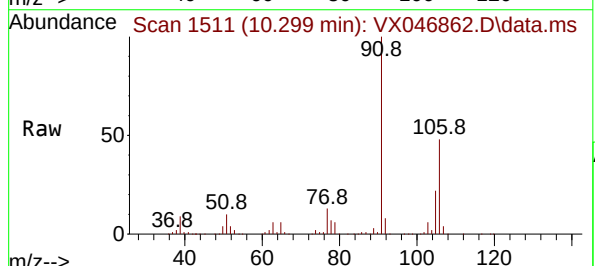
Acq: 02 Jul 2025 13:18

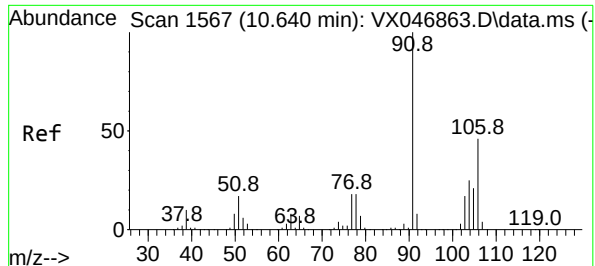
Tgt Ion:106 Resp: 337082

Ion Ratio Lower Upper

106 100

91 208.2 164.6 246.8





#69

o-Xylene

Concen: 20.870 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:106 Resp: 162094

Ion Ratio Lower Upper

106 100

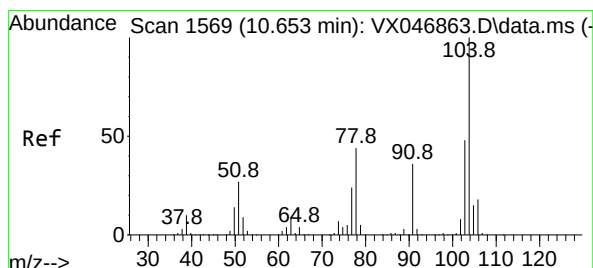
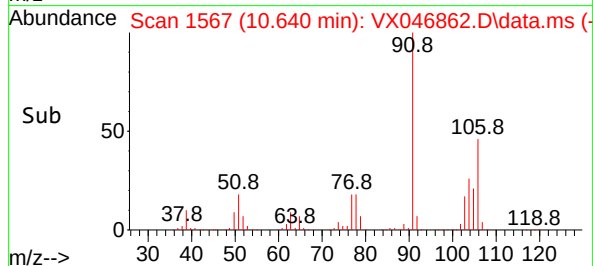
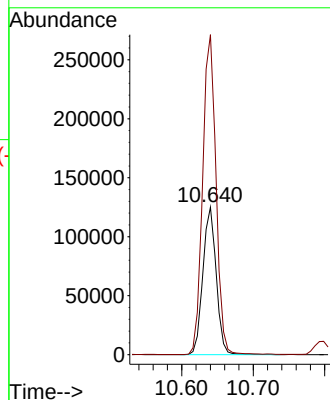
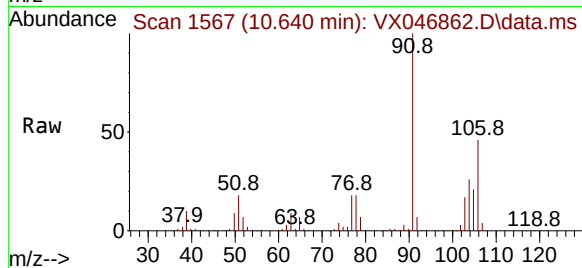
91 217.4 109.5 328.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#70

Styrene

Concen: 21.307 ug/l

RT: 10.652 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

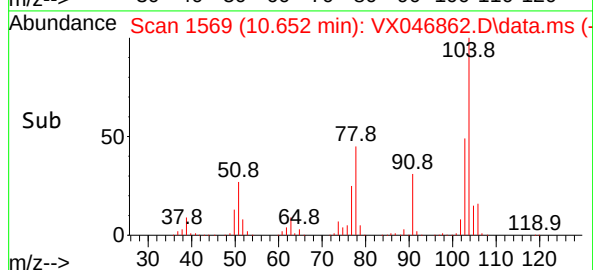
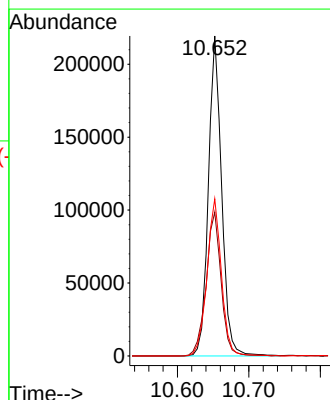
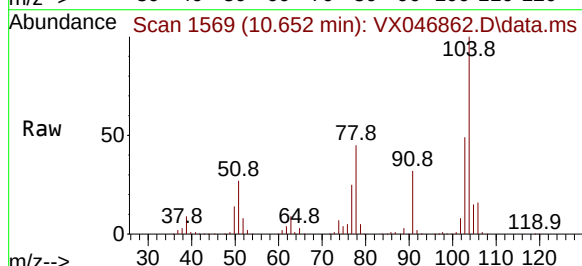
Tgt Ion:104 Resp: 283121

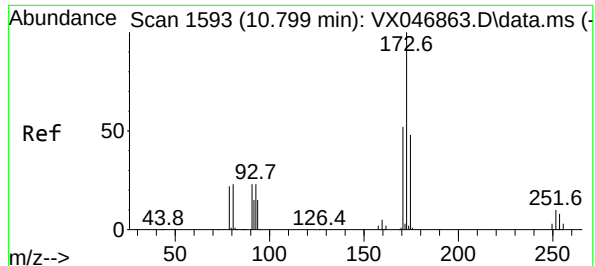
Ion Ratio Lower Upper

104 100

78 50.9 40.3 60.5

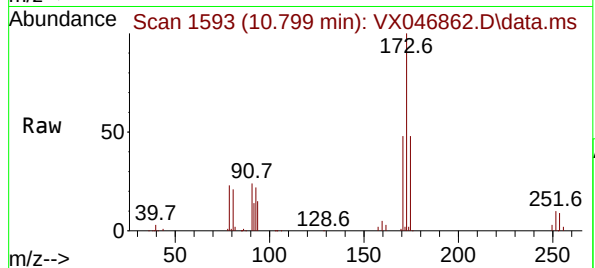
103 53.6 42.8 64.2





#71
Bromoform
Concen: 20.215 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

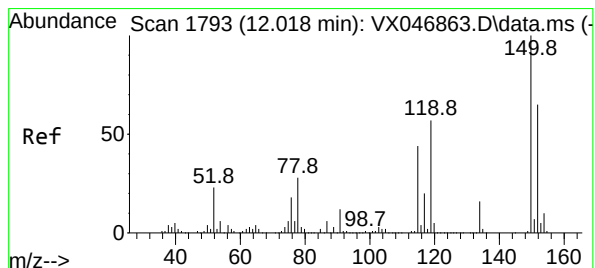
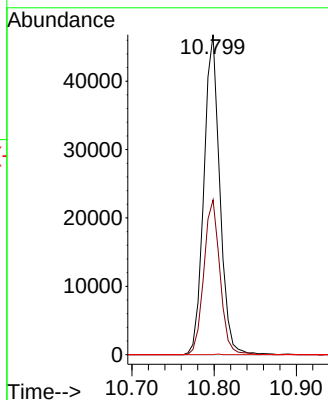
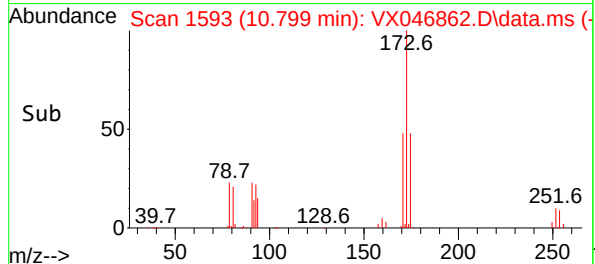
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:173 Resp: 6295
Ion Ratio Lower Upper
173 100
175 48.8 23.8 71.5
254 0.1 0.1 0.1

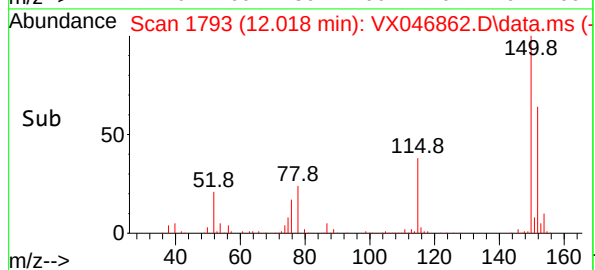
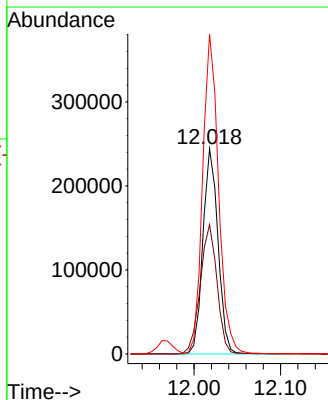
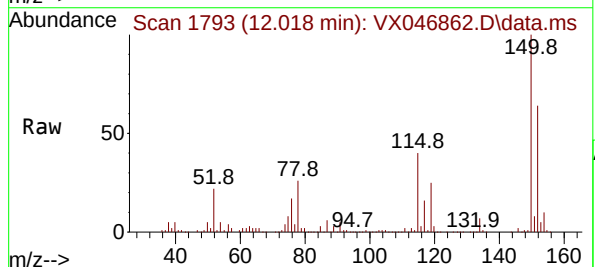
Manual Integrations
APPROVED

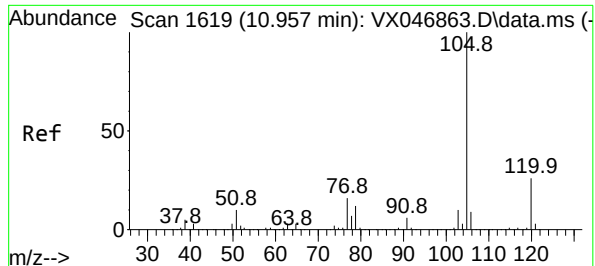
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Tgt Ion:152 Resp: 296482
Ion Ratio Lower Upper
152 100
115 69.7 42.4 127.1
150 163.7 0.0 349.2





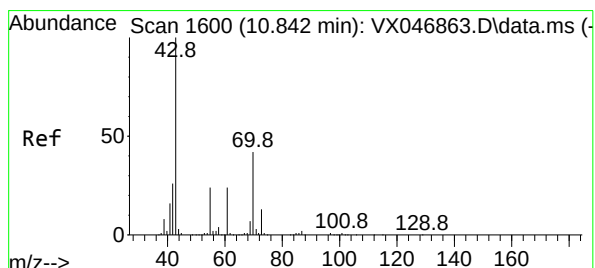
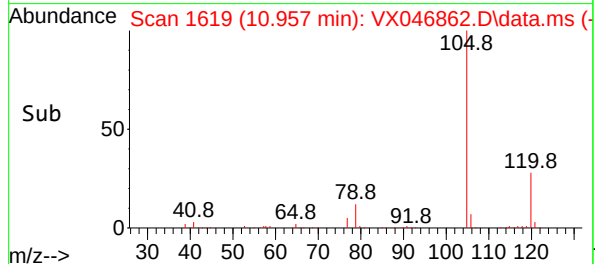
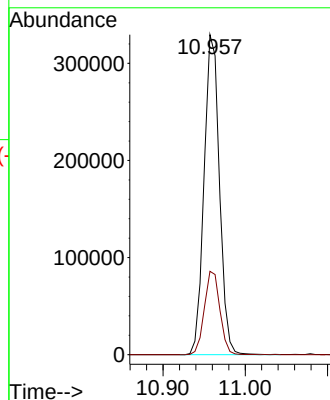
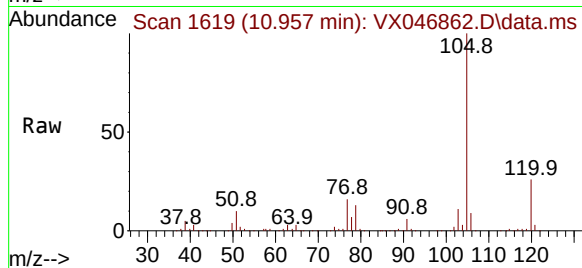
#73
Isopropylbenzene
Concen: 20.549 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tgt Ion:105 Resp: 42828
Ion Ratio Lower Upper
105 100
120 26.3 13.2 39.5

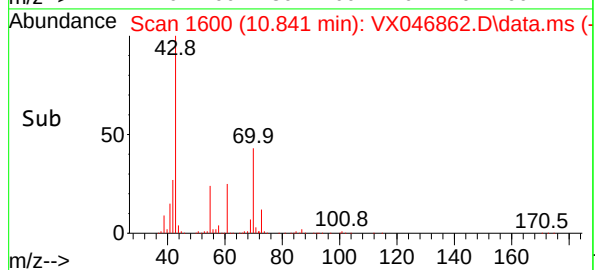
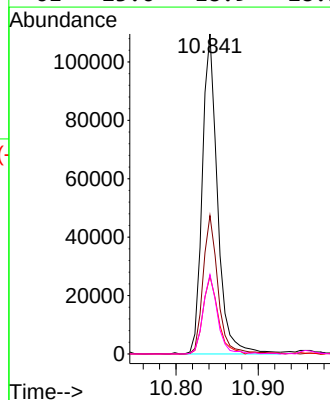
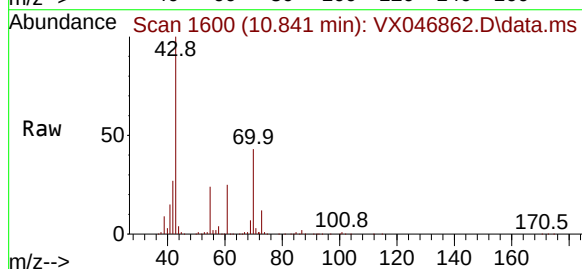
Manual Integrations
APPROVED

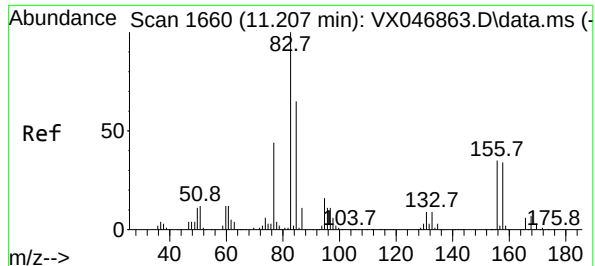
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#74
N-ethyl acetate
Concen: 19.991 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Tgt Ion: 43 Resp: 141581
Ion Ratio Lower Upper
43 100
70 42.3 33.4 50.2
55 23.9 19.6 29.4
61 23.6 18.9 28.3





#75

1,1,2,2-Tetrachloroethane

Concen: 20.298 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 83 Resp: 116329

Ion Ratio Lower Upper

83 100

131 10.1 5.0 14.9

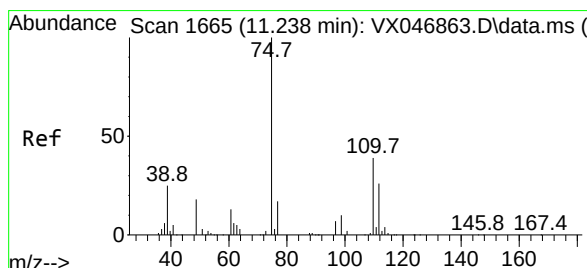
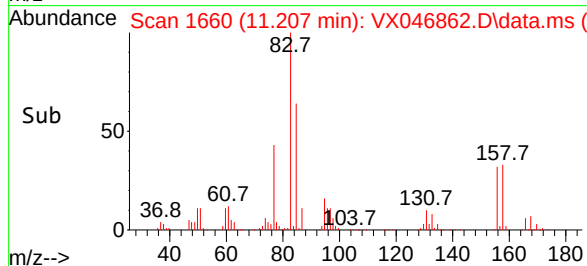
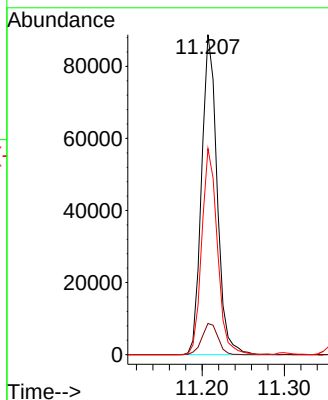
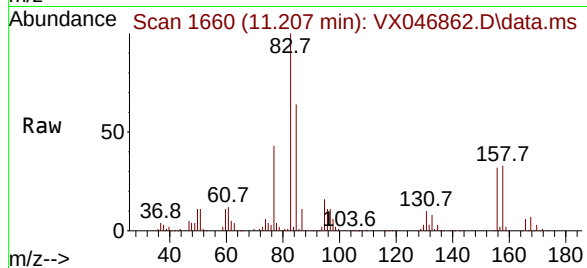
85 64.9 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#76

1,2,3-Trichloropropane

Concen: 19.941 ug/l m

RT: 11.238 min Scan# 1665

Delta R.T. -0.000 min

Lab File: VX046862.D

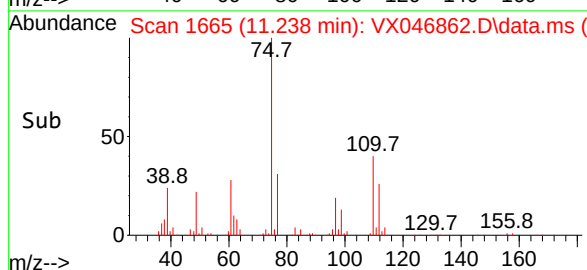
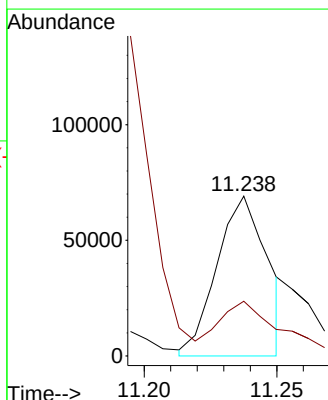
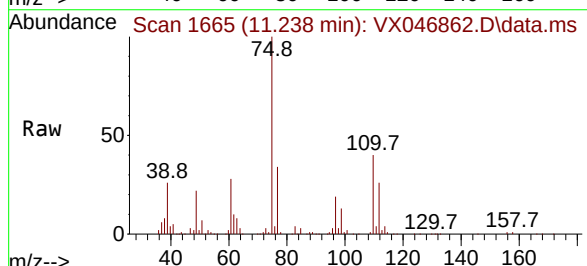
Acq: 02 Jul 2025 13:18

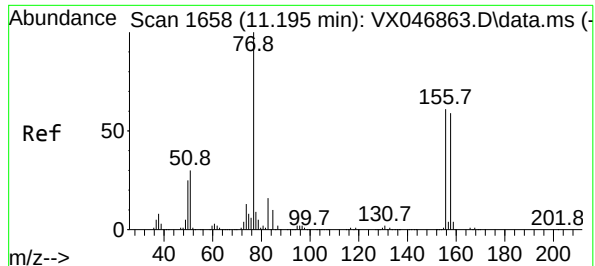
Tgt Ion: 75 Resp: 91349

Ion Ratio Lower Upper

75 100

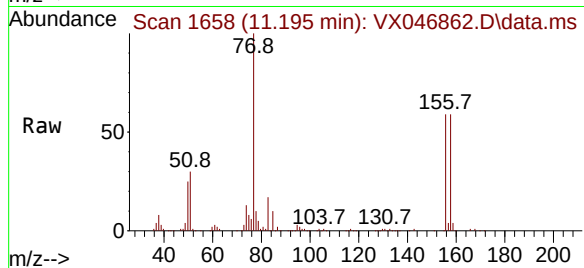
77 42.8 20.6 61.8





#77
Bromobenzene
Concen: 20.014 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

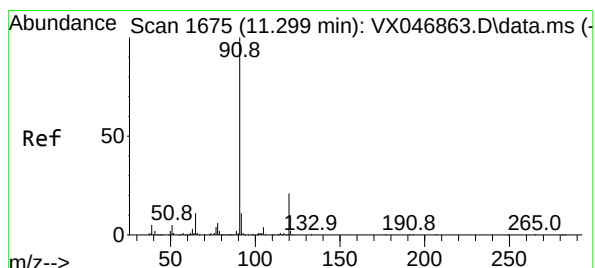
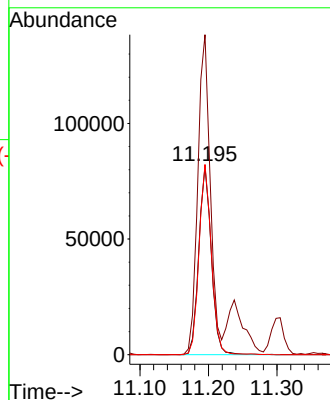
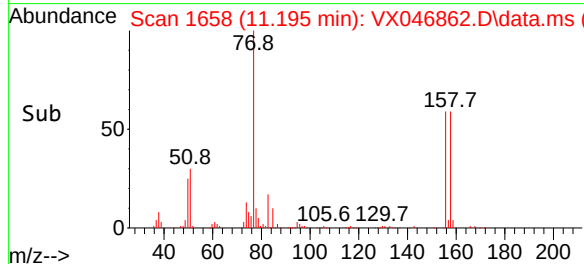
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 156 Resp: 103902
Ion Ratio Lower Upper
156 100
77 169.3 82.3 247.0
158 99.9 47.5 142.6

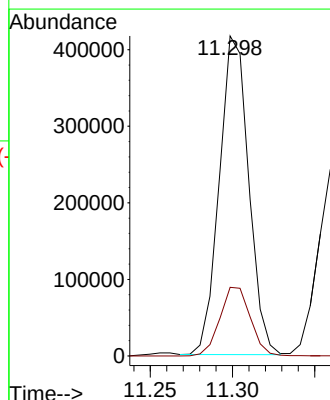
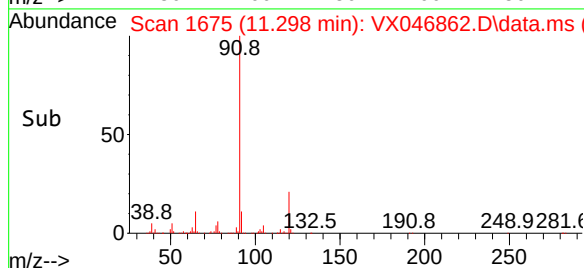
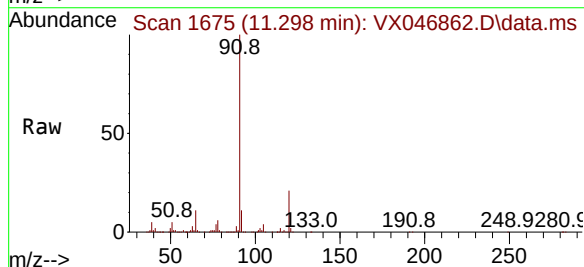
Manual Integrations
APPROVED

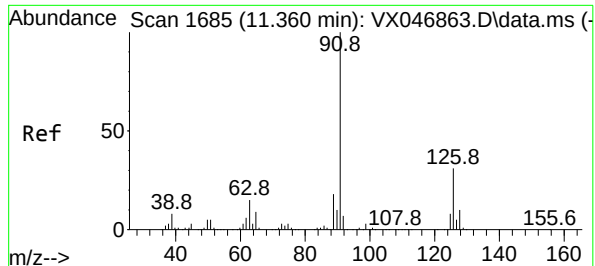
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#78
n-propylbenzene
Concen: 20.585 ug/l
RT: 11.298 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Tgt Ion: 91 Resp: 517332
Ion Ratio Lower Upper
91 100
120 22.5 11.2 33.5





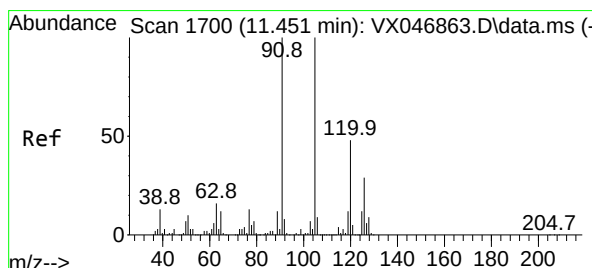
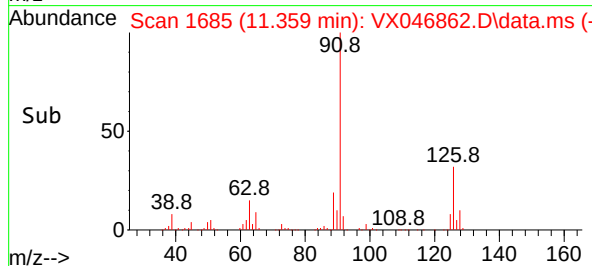
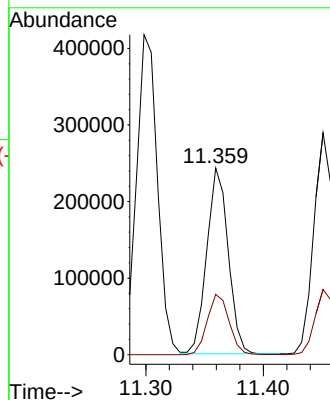
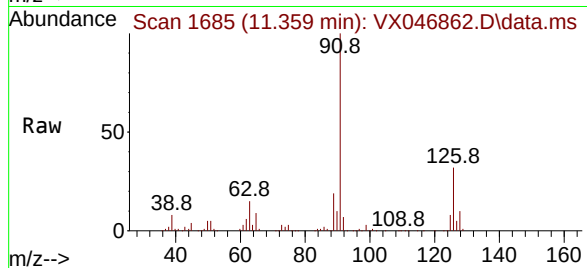
#79
2-Chlorotoluene
Concen: 20.748 ug/l
RT: 11.359 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 307880
Ion Ratio Lower Upper
91 100
126 33.1 16.6 49.8

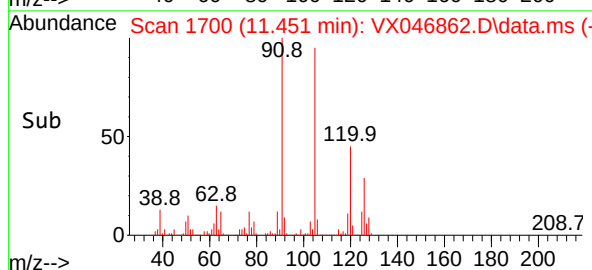
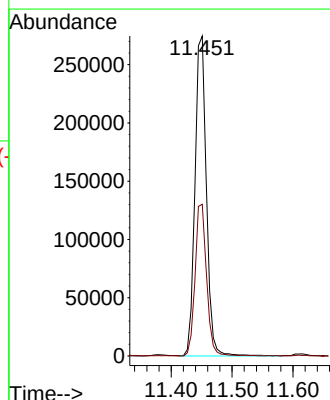
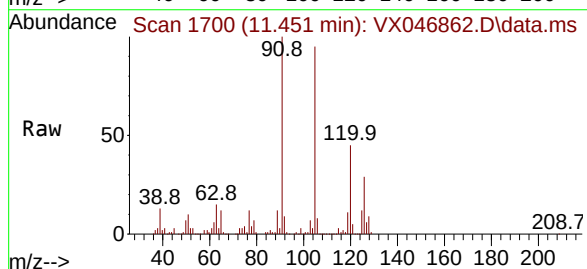
Manual Integrations
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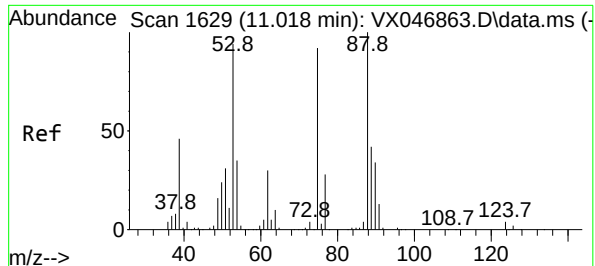
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#80
1,3,5-Trimethylbenzene
Concen: 21.108 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Tgt Ion:105 Resp: 357455
Ion Ratio Lower Upper
105 100
120 47.6 24.1 72.4





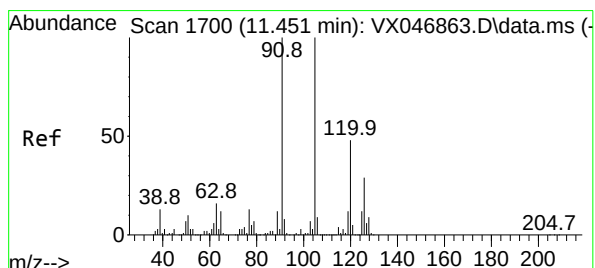
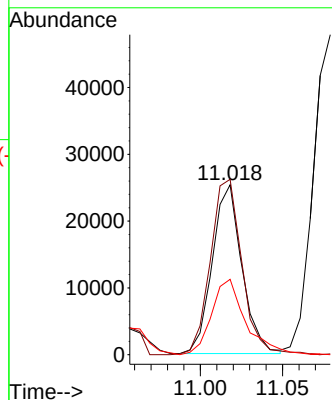
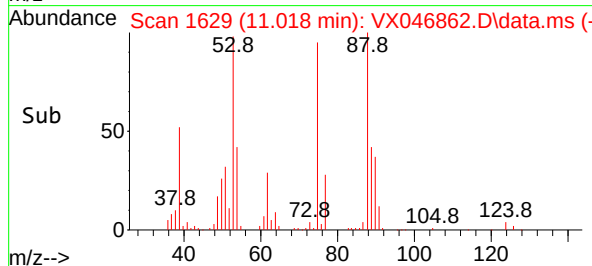
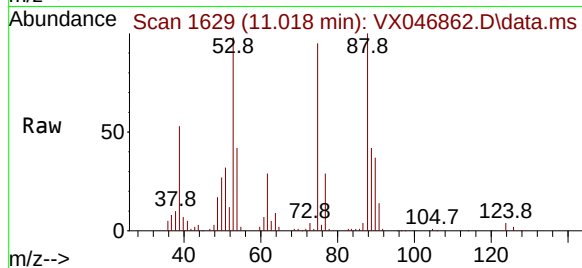
#81
trans-1,4-Dichloro-2-butene
Concen: 18.582 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 3172
Ion Ratio Lower Upper
75 100
53 110.4 83.7 125.5
89 51.4 38.2 57.2

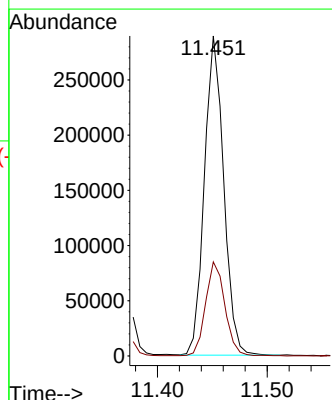
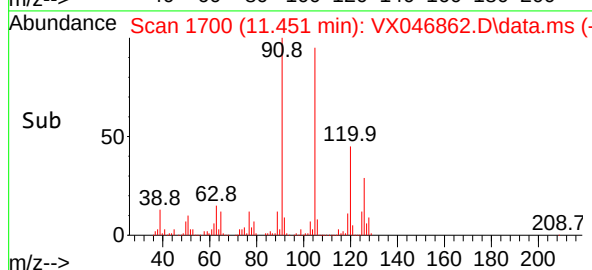
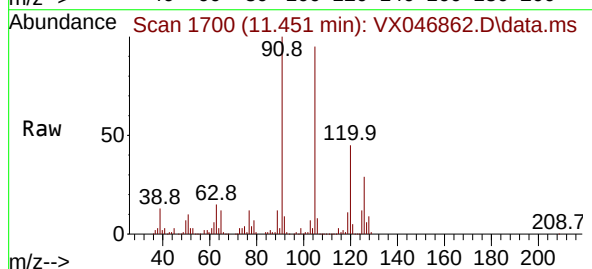
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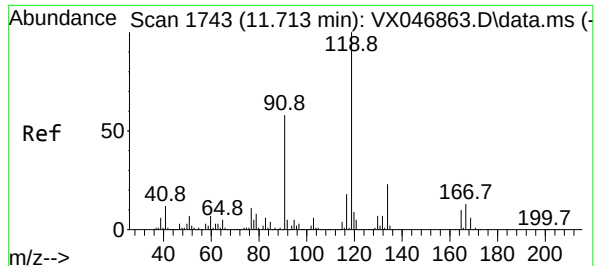
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#82
4-Chlorotoluene
Concen: 20.654 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

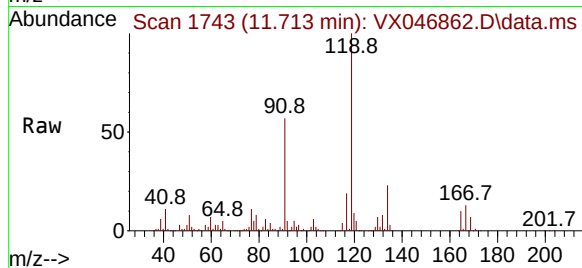
Tgt Ion: 91 Resp: 353678
Ion Ratio Lower Upper
91 100
126 29.7 14.6 44.0





#83
tert-Butylbenzene
Concen: 20.583 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

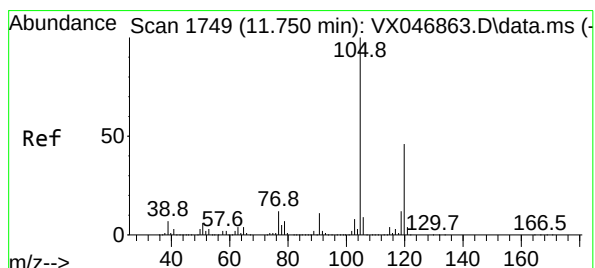
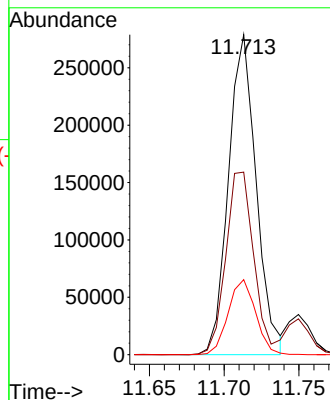
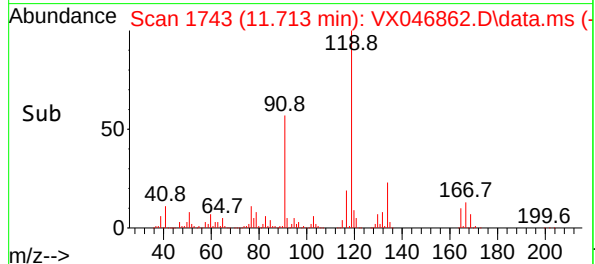
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion:119 Resp: 360024
Ion Ratio Lower Upper
119 100
91 57.1 28.7 86.3
134 23.2 11.4 34.2

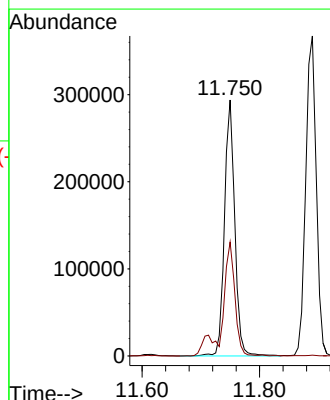
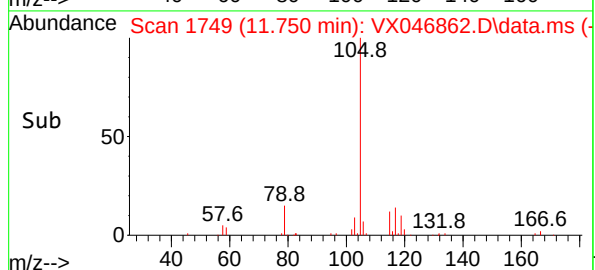
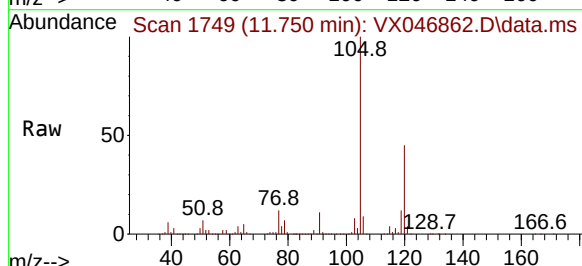
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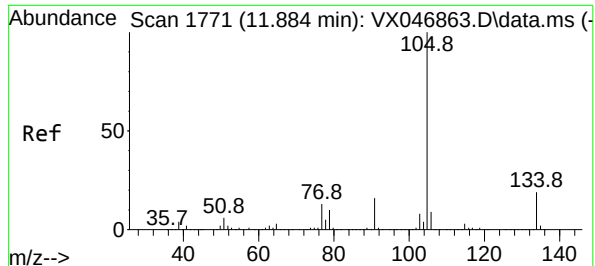
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#84
1,2,4-Trimethylbenzene
Concen: 20.900 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Tgt Ion:105 Resp: 357753
Ion Ratio Lower Upper
105 100
120 43.1 23.3 69.8





#85

sec-Butylbenzene

Concen: 20.715 ug/l

RT: 11.890 min Scan# 1771

Delta R.T. 0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion:105 Resp: 45683

Ion Ratio Lower Upper

105 100

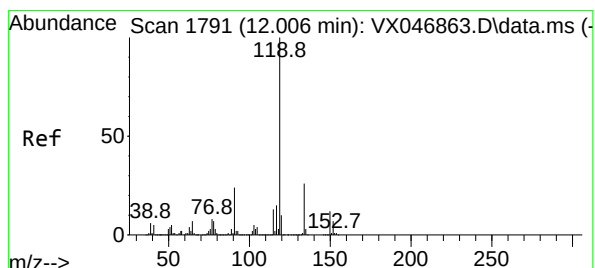
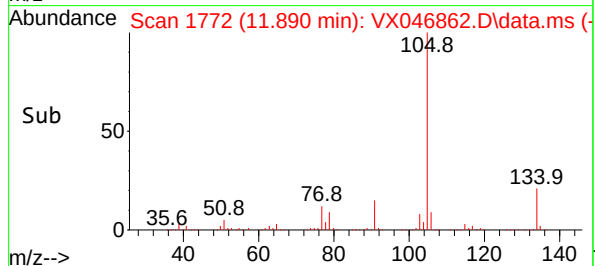
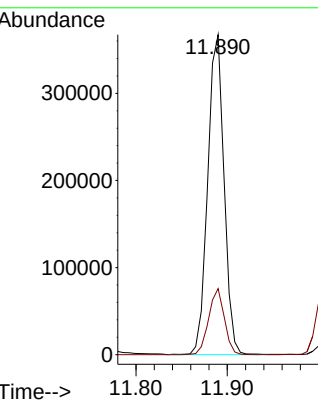
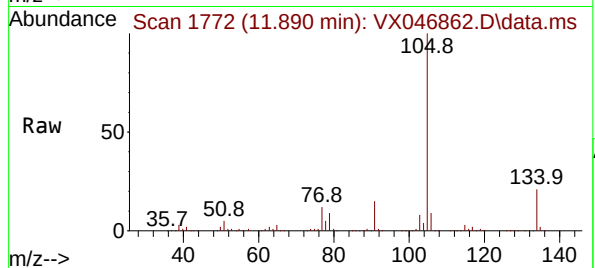
134 19.9 9.9 29.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#86

p-Isopropyltoluene

Concen: 20.425 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

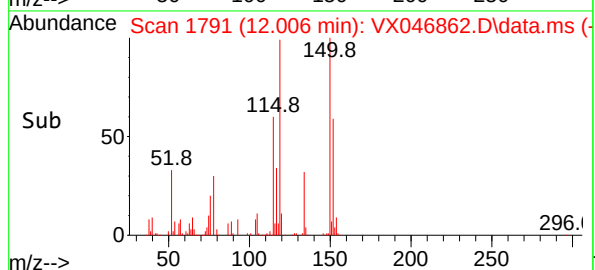
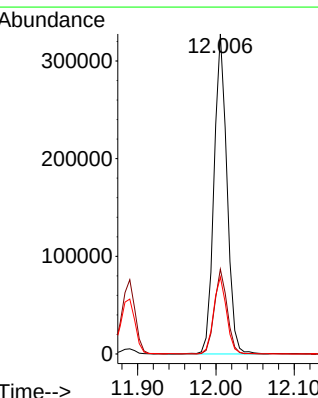
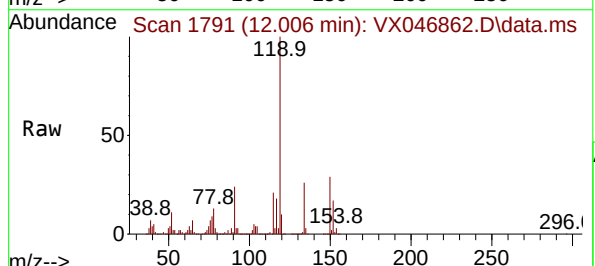
Tgt Ion:119 Resp: 377192

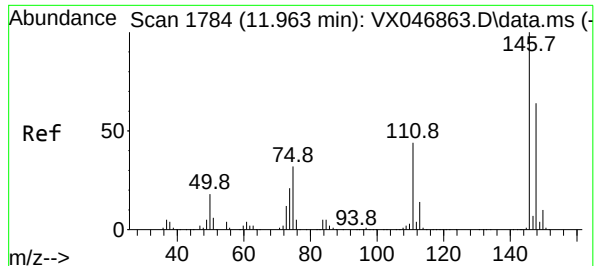
Ion Ratio Lower Upper

119 100

134 26.2 13.0 39.0

91 24.0 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 20.429 ug/l

RT: 11.963 min Scan# 1784

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:146 Resp: 19835

Ion Ratio Lower Upper

146 100

111 40.8 20.5 61.6

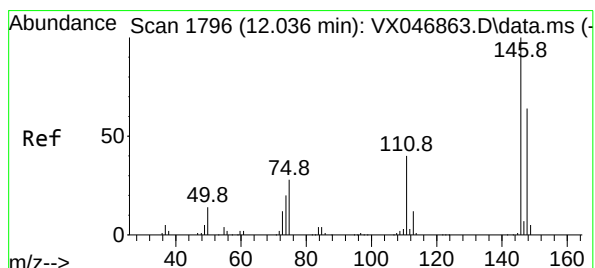
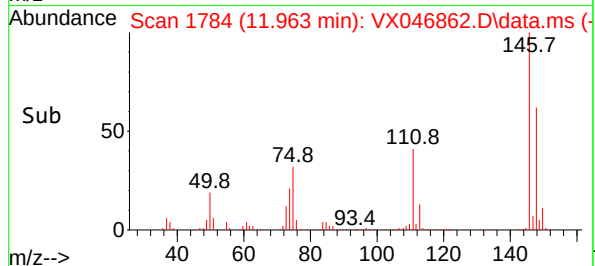
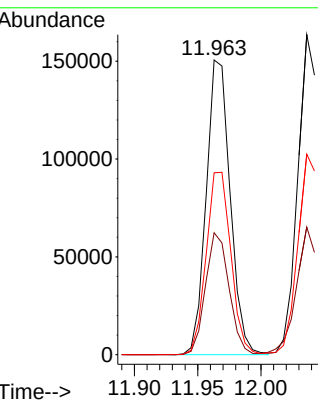
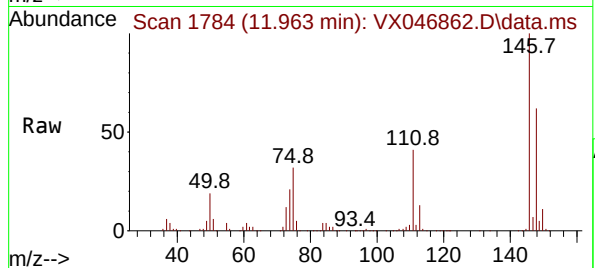
148 63.7 31.4 94.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#88

1,4-Dichlorobenzene

Concen: 20.078 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

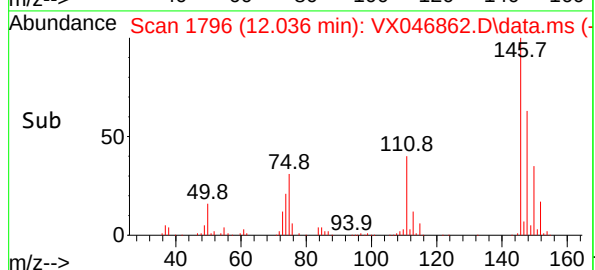
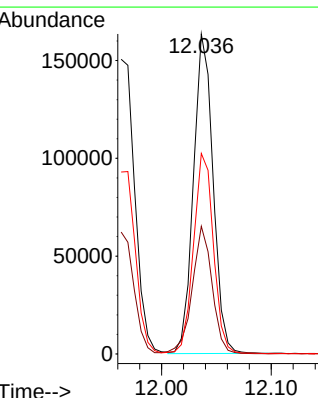
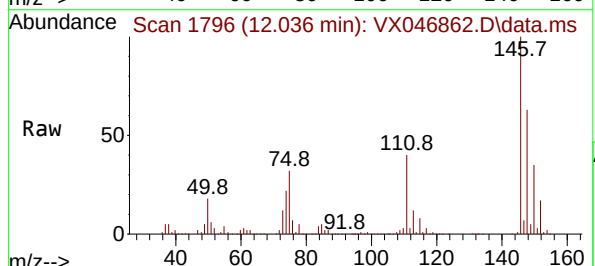
Tgt Ion:146 Resp: 202881

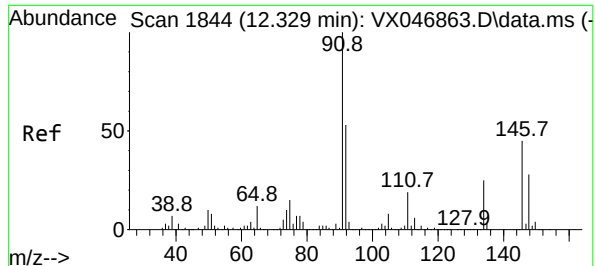
Ion Ratio Lower Upper

146 100

111 40.6 20.2 60.5

148 64.0 32.4 97.0





#89

n-Butylbenzene

Concen: 20.750 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 36006

Ion Ratio Lower Upper

91 100

92 53.9 27.0 81.0

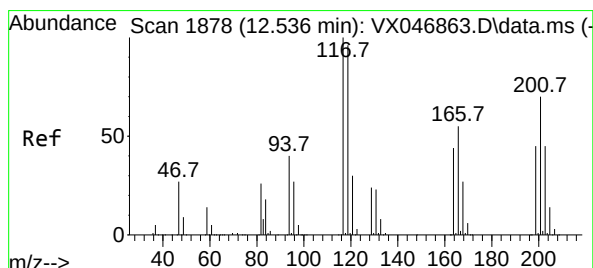
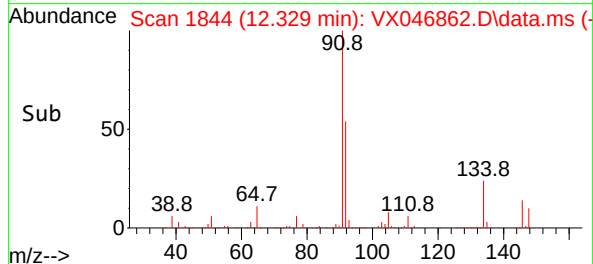
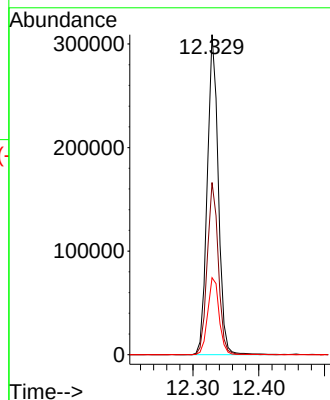
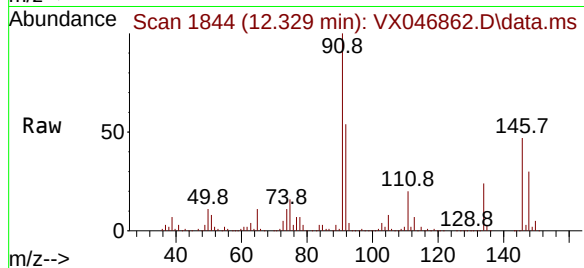
134 25.0 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#90

Hexachloroethane

Concen: 19.459 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX046862.D

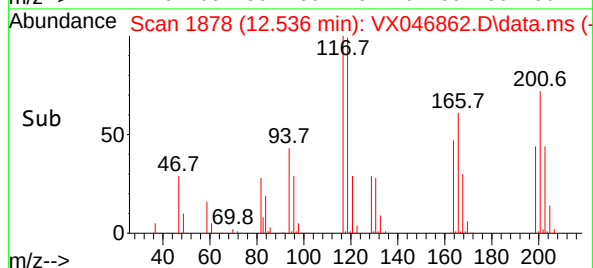
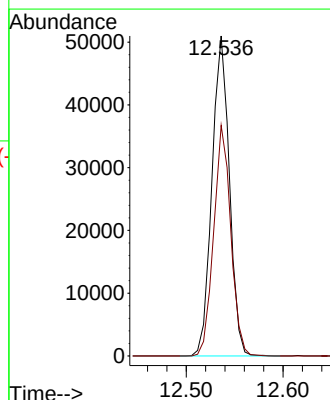
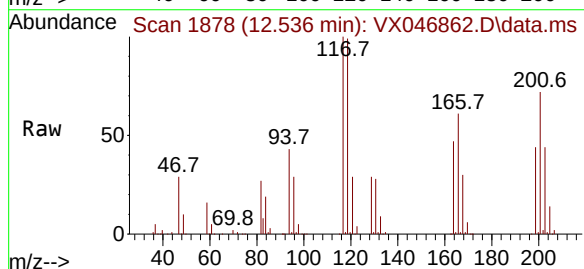
Acq: 02 Jul 2025 13:18

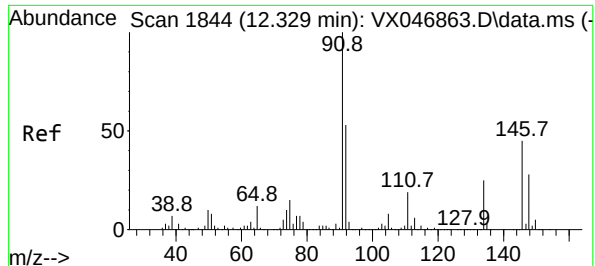
Tgt Ion:117 Resp: 63705

Ion Ratio Lower Upper

117 100

201 70.9 35.8 107.4





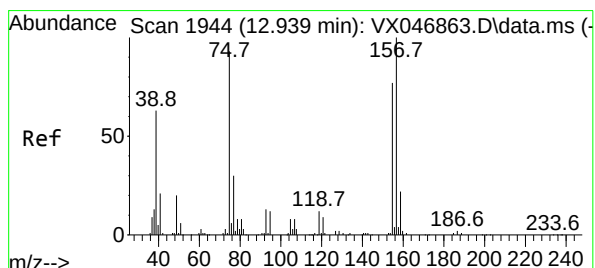
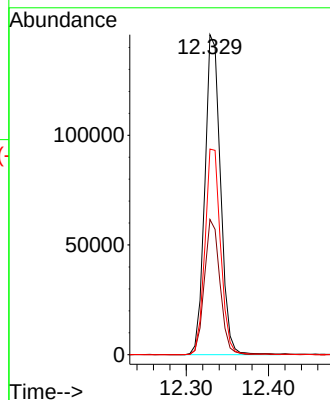
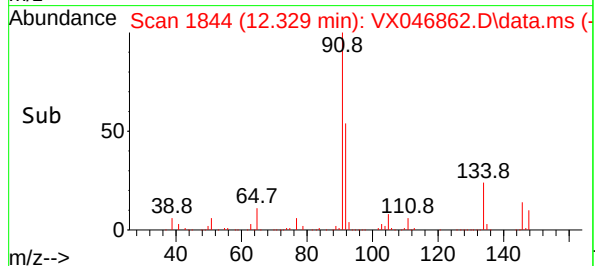
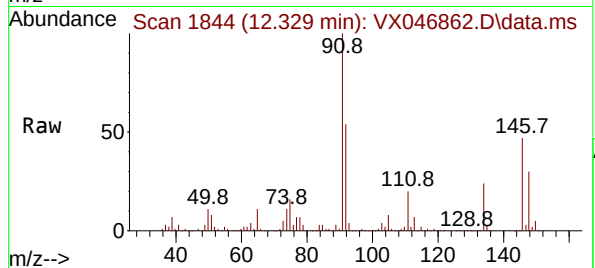
#91
1,2-Dichlorobenzene
Concen: 20.479 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 19268
Ion Ratio Lower Upper
146 100
111 41.9 21.1 63.1
148 64.2 31.6 95.0

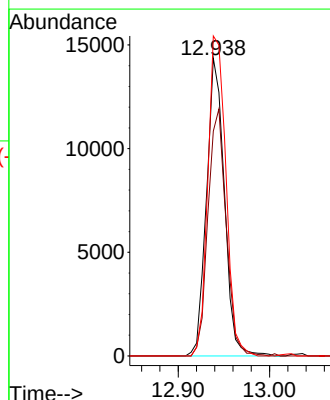
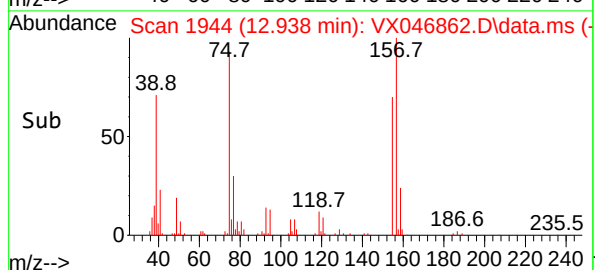
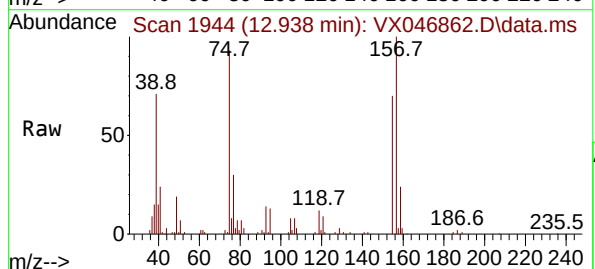
Manual Integrations
APPROVED

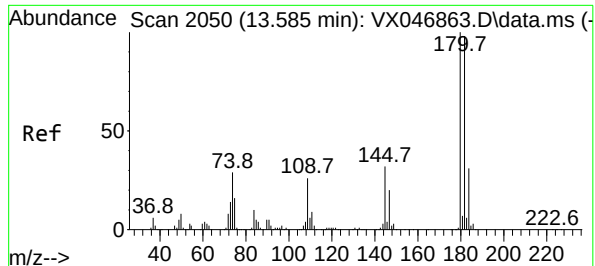
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 19.409 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

Tgt Ion: 75 Resp: 19455
Ion Ratio Lower Upper
75 100
155 84.0 43.1 129.4
157 109.1 56.5 169.5





#93

1,2,4-Trichlorobenzene

Concen: 19.999 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion:180 Resp: 127830

Ion Ratio Lower Upper

180 100

182 95.5 47.3 141.9

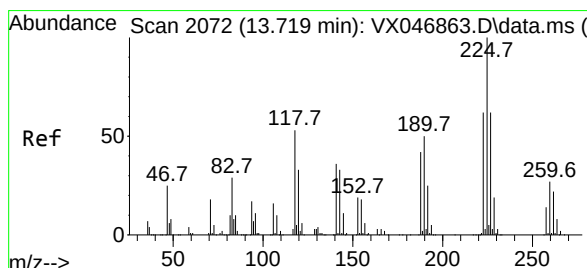
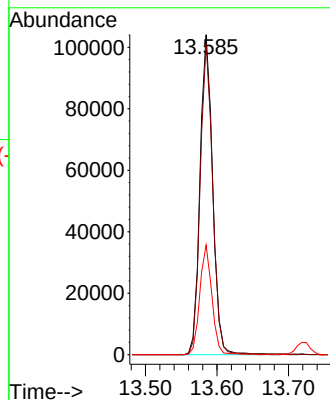
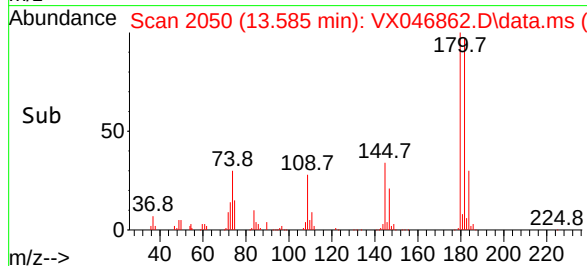
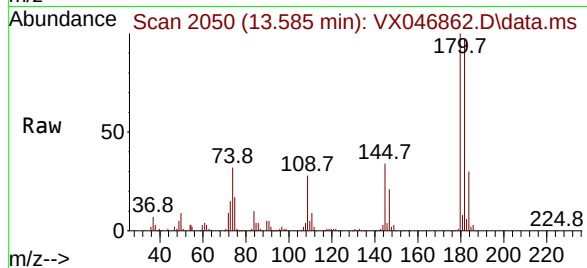
145 32.7 16.1 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#94

Hexachlorobutadiene

Concen: 20.713 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.006 min

Lab File: VX046862.D

Acq: 02 Jul 2025 13:18

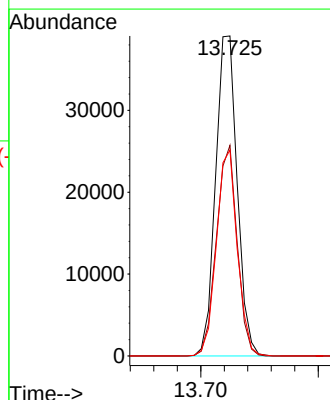
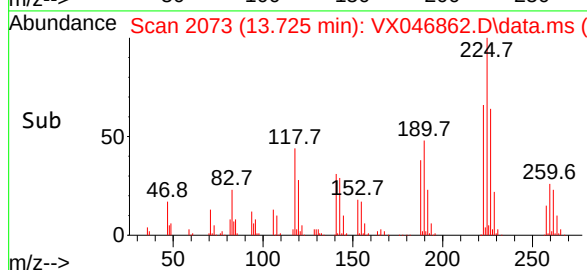
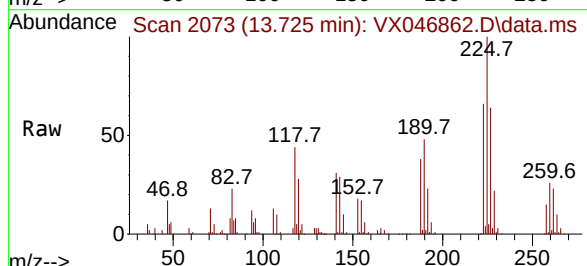
Tgt Ion:225 Resp: 49928

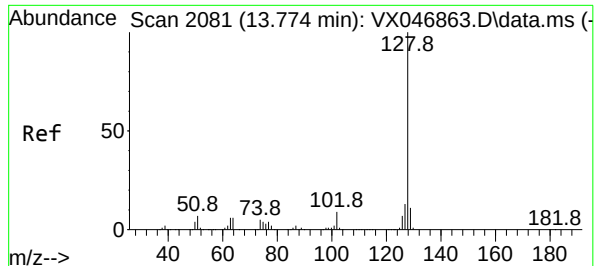
Ion Ratio Lower Upper

225 100

223 63.0 31.6 94.7

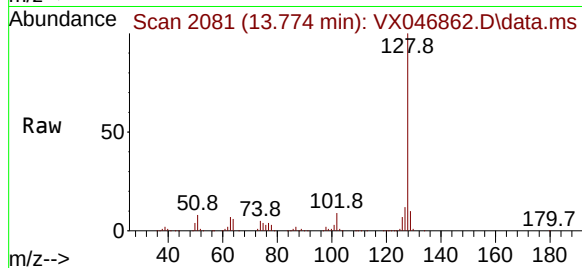
227 62.3 31.6 94.7





#95
Naphthalene
Concen: 20.372 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18

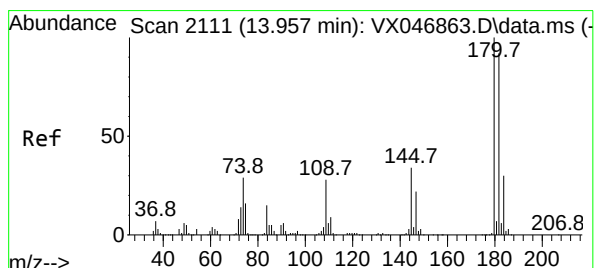
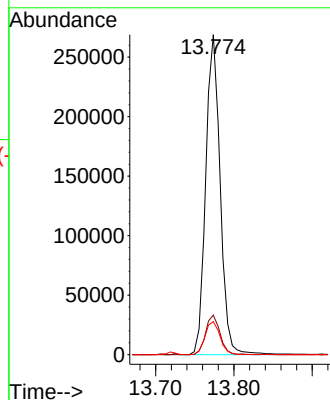
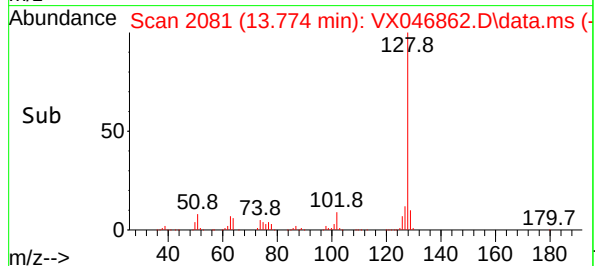
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



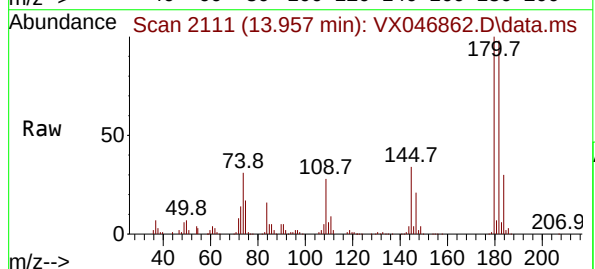
Tgt Ion:128 Resp: 34312
Ion Ratio Lower Upper
128 100
127 12.4 10.2 15.4
129 10.9 8.6 13.0

Manual Integrations
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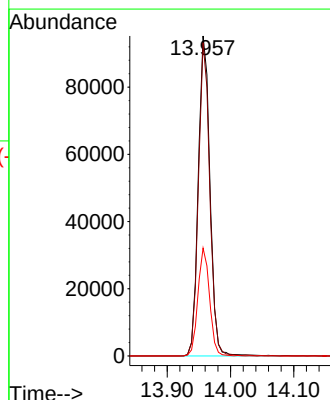
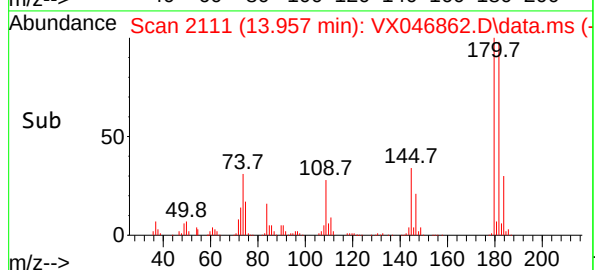
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.284 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046862.D
Acq: 02 Jul 2025 13:18



Tgt Ion:180 Resp: 122506
Ion Ratio Lower Upper
180 100
182 95.2 46.7 140.1
145 33.6 16.8 50.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046863.D
 Acq On : 02 Jul 2025 13:39
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Quant Time: Jul 03 05:32:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	368182	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	601240	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	539902	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	266829	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	238206	48.973	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	97.940%		
35) Dibromofluoromethane	5.397	113	203814	49.939	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.880%		
50) Toluene-d8	8.647	98	718232	49.879	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	99.760%		
62) 4-Bromofluorobenzene	11.079	95	273366	49.952	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	99.900%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.179	85	179160	50.881	ug/l	100
3) Chloromethane	1.307	50	186908	48.585	ug/l	100
4) Vinyl Chloride	1.386	62	202462	48.327	ug/l	100
5) Bromomethane	1.624	94	132366	49.174	ug/l	100
6) Chloroethane	1.703	64	127577	46.118	ug/l	100
7) Trichlorofluoromethane	1.904	101	315495	48.704	ug/l	100
8) Diethyl Ether	2.148	74	112089	48.624	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	201760	48.880	ug/l	100
10) Methyl Iodide	2.471	142	232179	51.631	ug/l	100
11) Tert butyl alcohol	2.953	59	77545	243.081	ug/l	100
12) 1,1-Dichloroethene	2.337	96	193069	48.359	ug/l	100
13) Acrolein	2.246	56	84088	238.671	ug/l	100
14) Allyl chloride	2.678	41	347253	48.854	ug/l	100
15) Acrylonitrile	3.075	53	453047	244.641	ug/l	100
16) Acetone	2.386	43	355803	235.495	ug/l	100
17) Carbon Disulfide	2.532	76	494153	47.196	ug/l	100
18) Methyl Acetate	2.715	43	203643	51.137	ug/l	100
19) Methyl tert-butyl Ether	3.123	73	562569	49.898	ug/l	100
20) Methylene Chloride	2.800	84	215411	48.215	ug/l	100
21) trans-1,2-Dichloroethene	3.105	96	199150	48.748	ug/l	100
22) Diisopropyl ether	3.770	45	701332	51.071	ug/l	100
23) Vinyl Acetate	3.733	43	2620249	254.689	ug/l	100
24) 1,1-Dichloroethane	3.623	63	382510	48.841	ug/l	100
25) 2-Butanone	4.562	43	506469	251.252	ug/l	100
26) 2,2-Dichloropropane	4.489	77	280159	48.066	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	243080	48.734	ug/l	100
28) Bromochloromethane	4.910	49	194431	50.303	ug/l	100
29) Tetrahydrofuran	5.007	42	322800	251.209	ug/l	100
30) Chloroform	5.105	83	386035	48.247	ug/l	100
31) Cyclohexane	5.483	56	337894	48.598	ug/l	100
32) 1,1,1-Trichloroethane	5.397	97	326288	48.811	ug/l	100
36) 1,1-Dichloropropene	5.702	75	264243	47.988	ug/l	100
37) Ethyl Acetate	4.721	43	216259	46.111	ug/l	100
38) Carbon Tetrachloride	5.690	117	286310	48.549	ug/l	100
39) Methylcyclohexane	7.385	83	341159	49.529	ug/l	100
40) Benzene	6.050	78	815341	48.954	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046863.D
 Acq On : 02 Jul 2025 13:39
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Quant Time: Jul 03 05:32:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 07/03/2025
 Supervised By :Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	127915	51.128	ug/l	100
42) 1,2-Dichloroethane	6.092	62	276628	48.913	ug/l	100
43) Isopropyl Acetate	6.342	43	371859	51.765	ug/l	100
44) Trichloroethene	7.129	130	206841	47.708	ug/l	100
45) 1,2-Dichloropropane	7.434	63	207864	49.398	ug/l	100
46) Dibromomethane	7.586	93	144114	49.430	ug/l	100
47) Bromodichloromethane	7.824	83	306696	49.265	ug/l	100
48) Methyl methacrylate	7.696	41	193493	52.165	ug/l	100
49) 1,4-Dioxane	7.659	88	43664	1015.947	ug/l	100
51) 4-Methyl-2-Pentanone	8.574	43	1101634	259.847	ug/l	100
52) Toluene	8.720	92	505397	48.969	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	284038	51.124	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	320678	50.567	ug/l	100
55) 1,1,2-Trichloroethane	9.153	97	191073	49.704	ug/l	100
56) Ethyl methacrylate	9.116	69	276170	51.905	ug/l	100
57) 1,3-Dichloropropane	9.305	76	325345	49.150	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.244	63	802354	267.636	ug/l	100
59) 2-Hexanone	9.427	43	742855	264.164	ug/l	100
60) Dibromochloromethane	9.519	129	226427	49.218	ug/l	100
61) 1,2-Dibromoethane	9.610	107	192320	49.814	ug/l	100
64) Tetrachloroethene	9.275	164	170176	47.341	ug/l	100
65) Chlorobenzene	10.079	112	566582	48.538	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	193638	49.347	ug/l	100
67) Ethyl Benzene	10.189	91	987806	49.415	ug/l	100
68) m/p-Xylenes	10.299	106	743275	98.674	ug/l	100
69) o-Xylene	10.640	106	358798	49.311	ug/l	100
70) Styrene	10.653	104	634597	50.976	ug/l	100
71) Bromoform	10.799	173	145282	49.794	ug/l #	100
73) Isopropylbenzene	10.957	105	960979	51.232	ug/l	100
74) N-amyl acetate	10.842	43	338897	53.169	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.207	83	256928	49.814	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	210006m	50.937	ug/l	100
77) Bromobenzene	11.195	156	233851	50.052	ug/l	100
78) n-propylbenzene	11.299	91	1145518	50.647	ug/l	100
79) 2-Chlorotoluene	11.360	91	662335	49.595	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	780315	51.198	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	77831	50.659	ug/l	100
82) 4-Chlorotoluene	11.451	91	777681	50.461	ug/l	100
83) tert-Butylbenzene	11.713	119	805925	51.197	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	786934	51.082	ug/l	100
85) sec-Butylbenzene	11.884	105	1009027	50.840	ug/l	100
86) p-Isopropyltoluene	12.006	119	843813	50.770	ug/l	100
87) 1,3-Dichlorobenzene	11.963	146	434168	49.687	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	435439	47.882	ug/l	100
89) n-Butylbenzene	12.329	91	797119	51.042	ug/l	100
90) Hexachloroethane	12.536	117	147768	50.152	ug/l	100
91) 1,2-Dichlorobenzene	12.329	146	418287	49.398	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	45584	50.530	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	290148	50.438	ug/l	100
94) Hexachlorobutadiene	13.719	225	109236	50.352	ug/l	100
95) Naphthalene	13.774	128	809540	53.405	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	278713	51.278	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046863.D
Acq On : 02 Jul 2025 13:39
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Jul 03 05:32:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:21:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

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

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

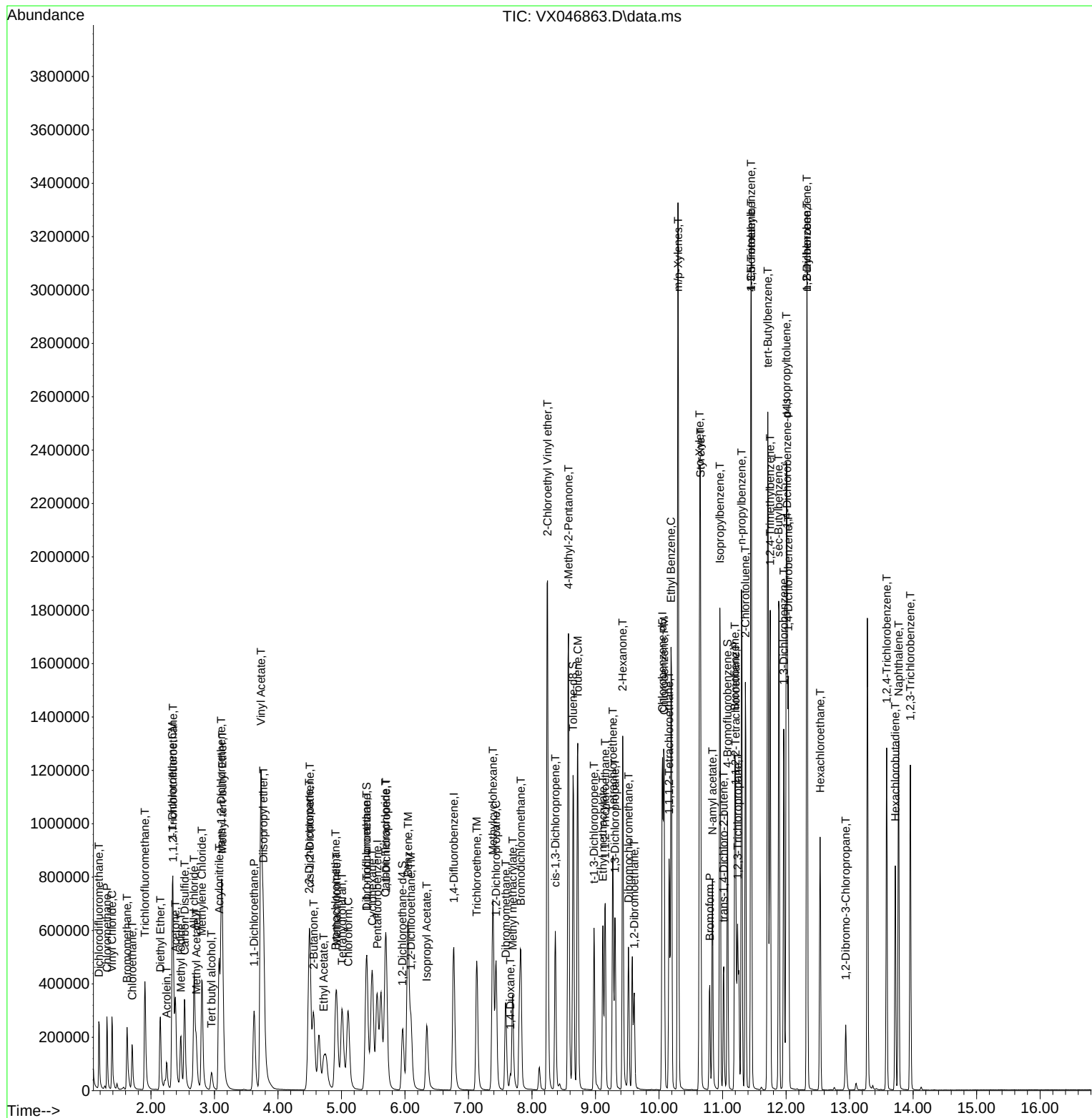
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046863.D
Acq On : 02 Jul 2025 13:39
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

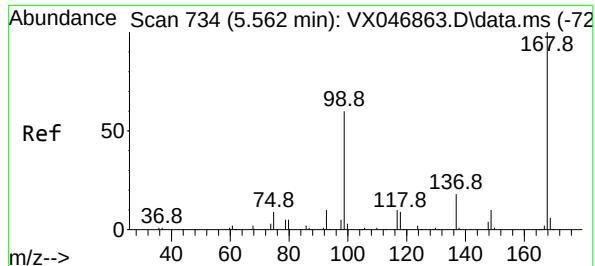
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Quant Time: Jul 03 05:32:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:21:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : John Carlone 07/03/2025
Supervised By : Mahesh Dadoda 07/03/2025





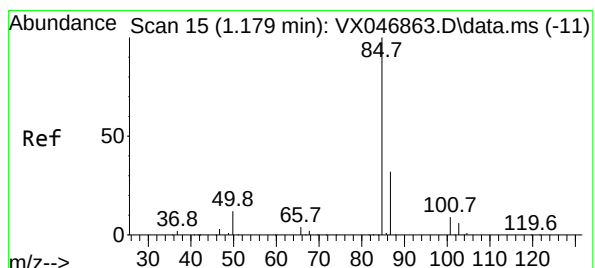
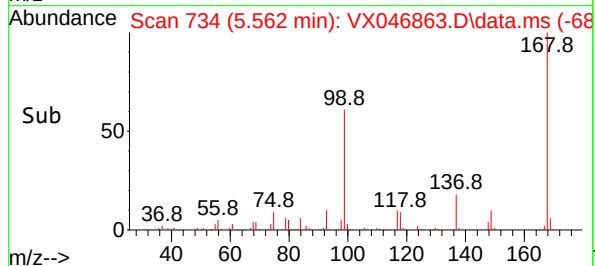
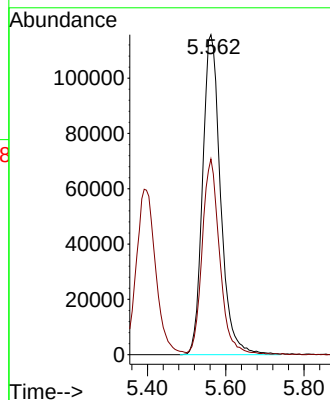
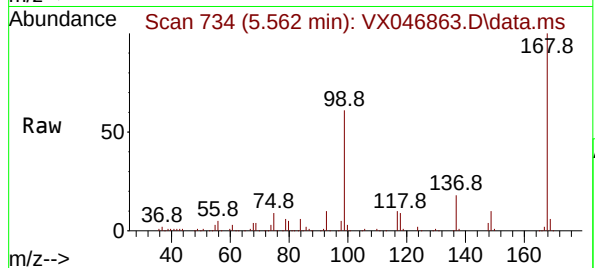
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 734
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 36818
Ion Ratio Lower Upper
168 100
99 61.0 48.8 73.2

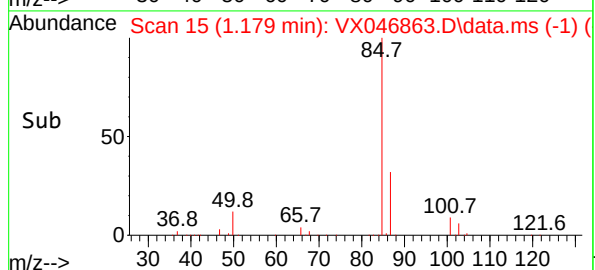
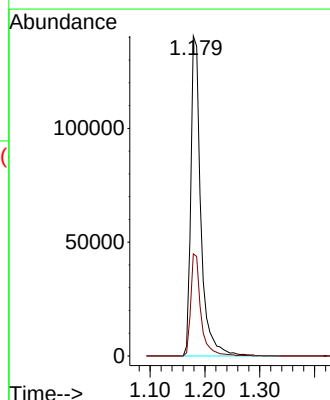
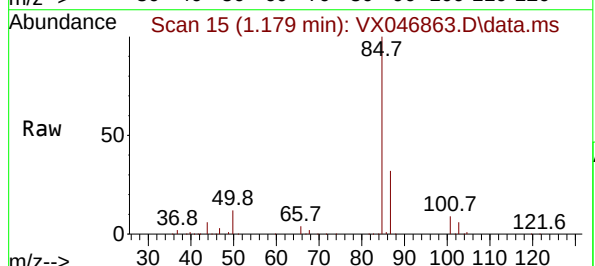
Manual Integrations
APPROVED

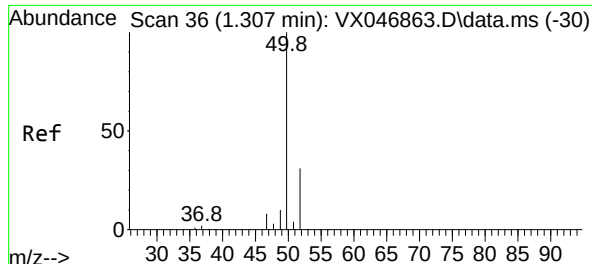
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#2
Dichlorodifluoromethane
Concen: 50.881 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Tgt Ion: 85 Resp: 179160
Ion Ratio Lower Upper
85 100
87 31.9 16.0 47.9





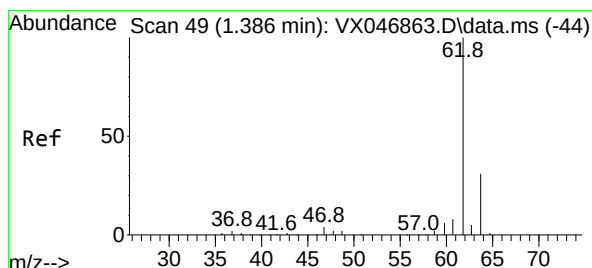
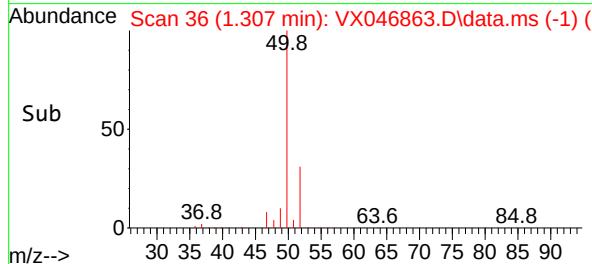
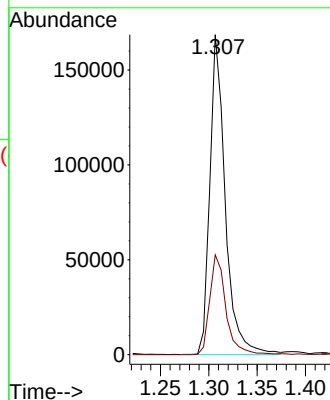
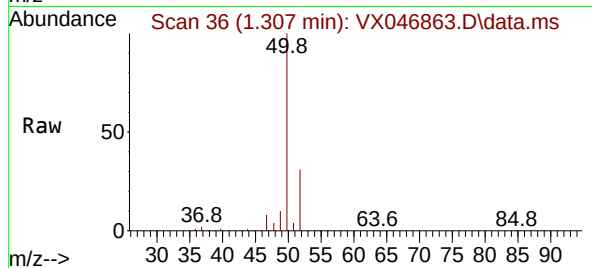
#3
Chloromethane
Concen: 48.585 ug/l
RT: 1.307 min Scan# 30
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 186908
Ion Ratio Lower Upper
50 100
52 31.2 25.0 37.4

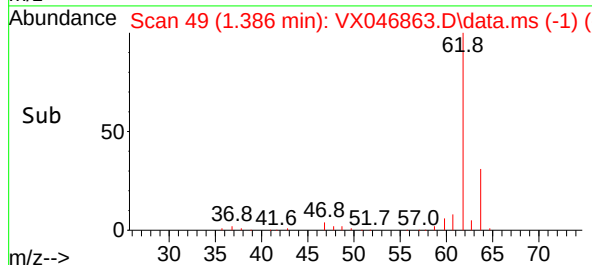
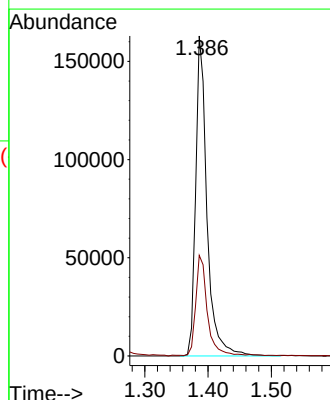
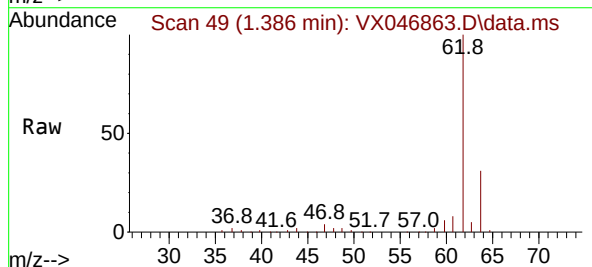
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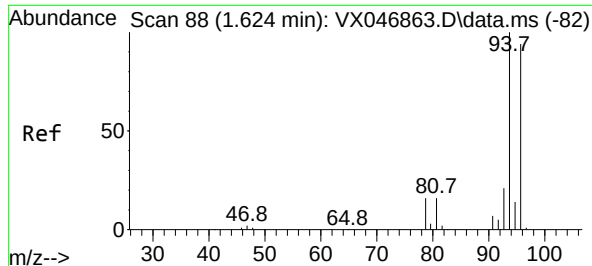
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#4
Vinyl Chloride
Concen: 48.327 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

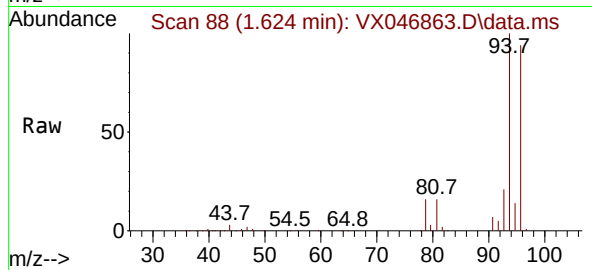
Tgt Ion: 62 Resp: 202462
Ion Ratio Lower Upper
62 100
64 31.2 25.0 37.4





#5
Bromomethane
Concen: 49.174 ug/l
RT: 1.624 min Scan# 88
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

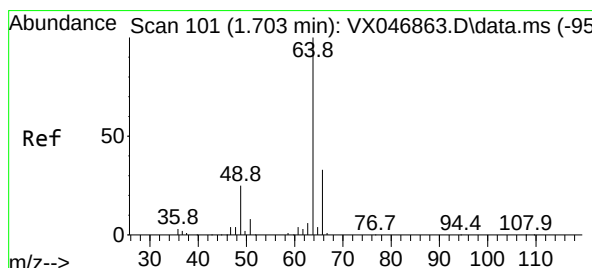
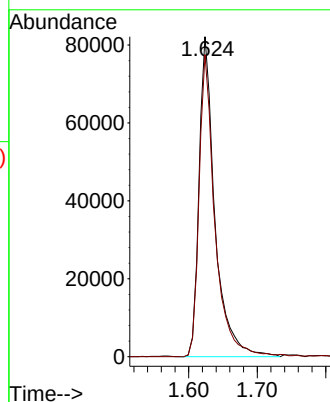
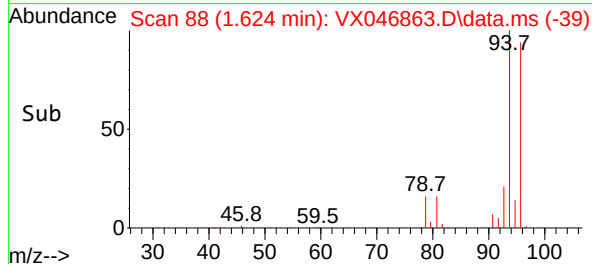
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 94 Resp: 132360
Ion Ratio Lower Upper
94 100
96 94.4 75.5 113.3

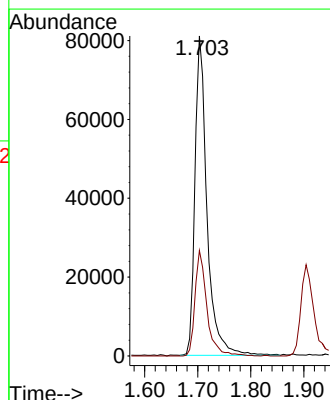
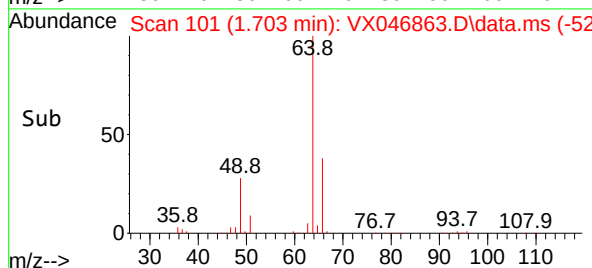
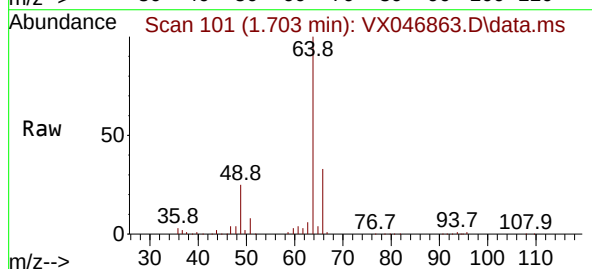
Manual Integrations
APPROVED

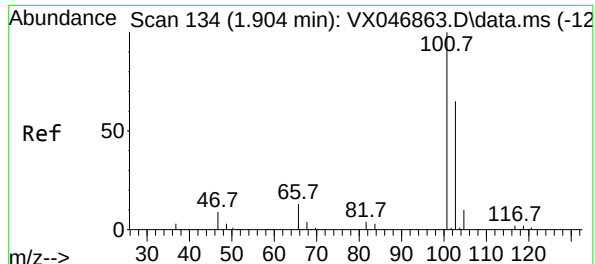
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#6
Chloroethane
Concen: 46.118 ug/l
RT: 1.703 min Scan# 101
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Tgt Ion: 64 Resp: 127577
Ion Ratio Lower Upper
64 100
66 33.0 26.4 39.6





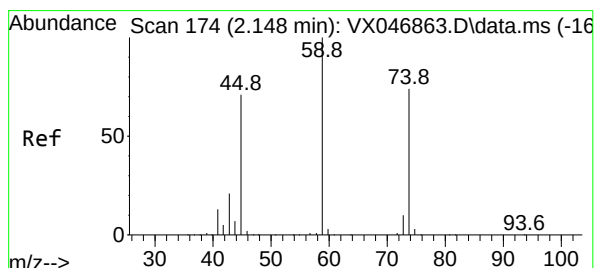
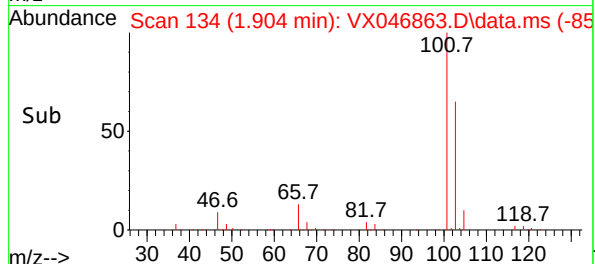
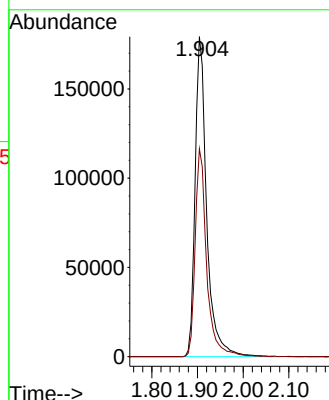
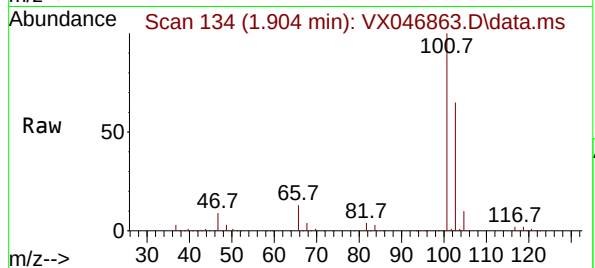
#7
Trichlorofluoromethane
Concen: 48.704 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 31549
Ion Ratio Lower Upper
101 100
103 64.9 51.9 77.9

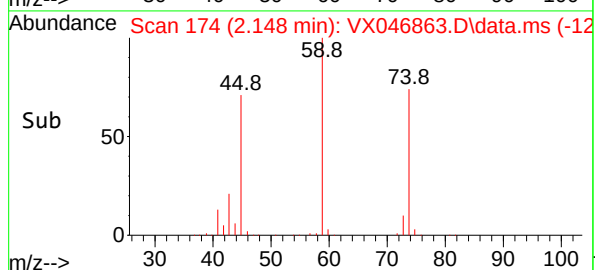
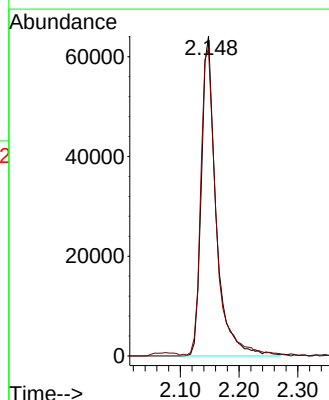
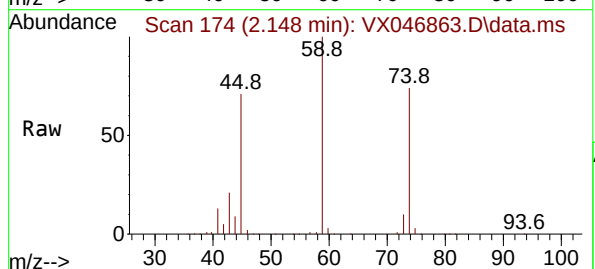
Manual Integrations
APPROVED

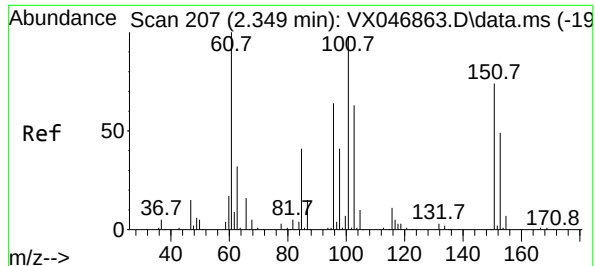
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#8
Diethyl Ether
Concen: 48.624 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Tgt Ion: 74 Resp: 112089
Ion Ratio Lower Upper
74 100
45 101.4 50.7 152.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.880 ug/l

RT: 2.349 min Scan# 207

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:101 Resp: 201760

Ion Ratio Lower Upper

101 100

85 42.9 34.3 51.5

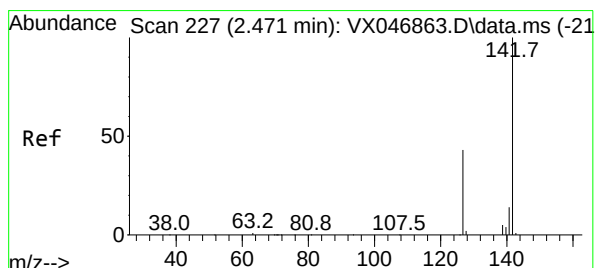
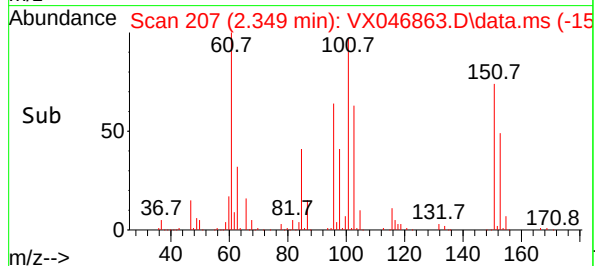
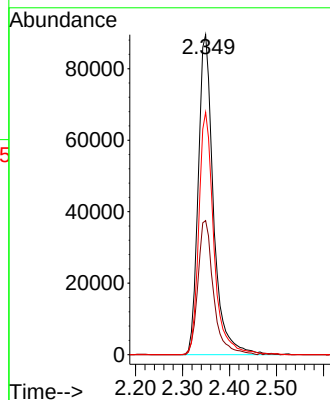
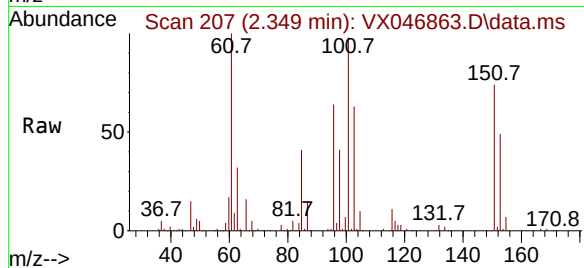
151 74.9 59.9 89.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#10

Methyl Iodide

Concen: 51.631 ug/l

RT: 2.471 min Scan# 227

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

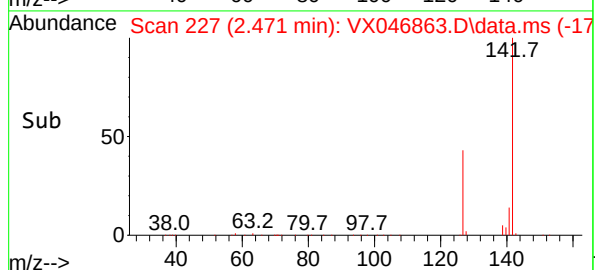
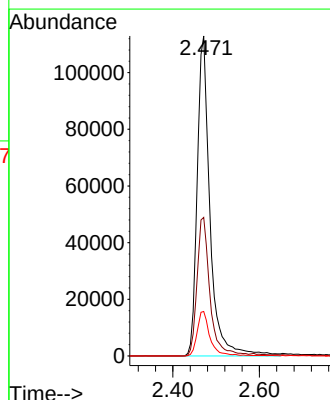
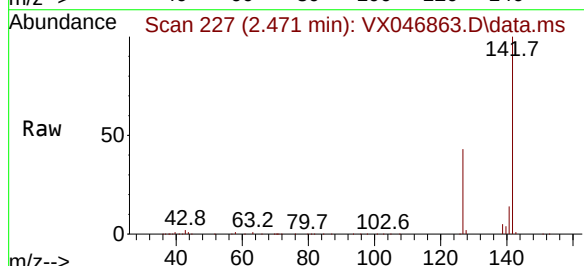
Tgt Ion:142 Resp: 232179

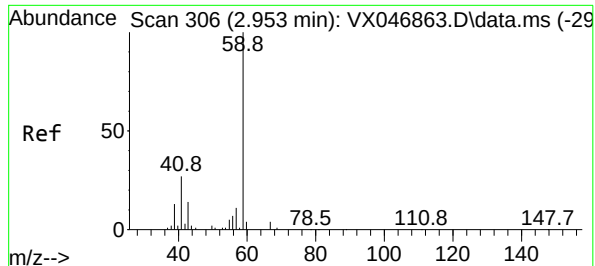
Ion Ratio Lower Upper

142 100

127 43.6 34.9 52.3

141 13.9 11.1 16.7





#11

Tert butyl alcohol

Concen: 243.081 ug/l

RT: 2.953 min Scan# 306

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 7754

Ion Ratio Lower Upper

59 100

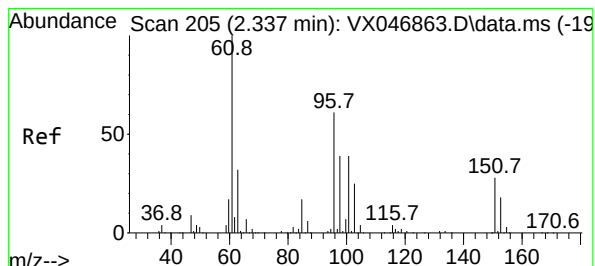
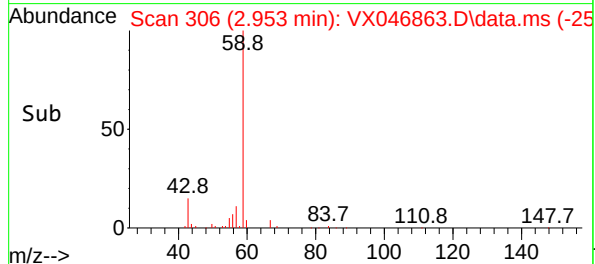
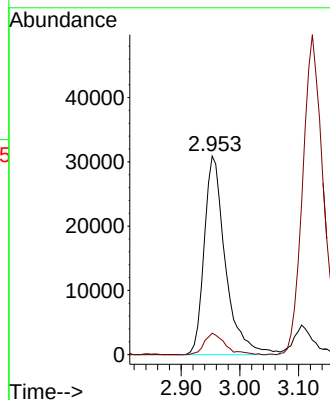
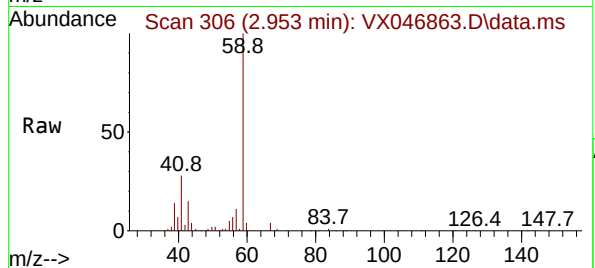
57 10.6 8.5 12.7

Manual Integrations

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Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#12

1,1-Dichloroethene

Concen: 48.359 ug/l

RT: 2.337 min Scan# 205

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

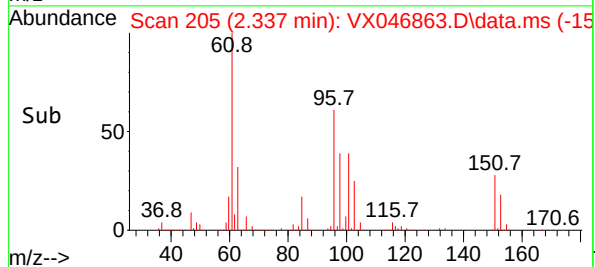
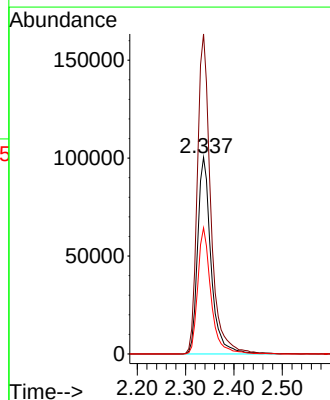
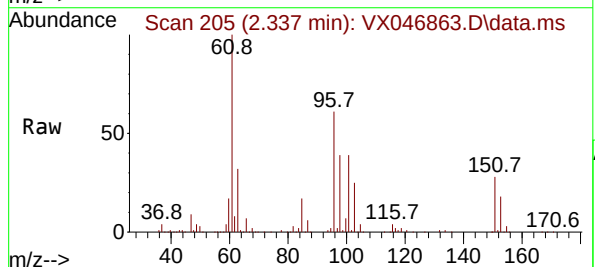
Tgt Ion: 96 Resp: 193069

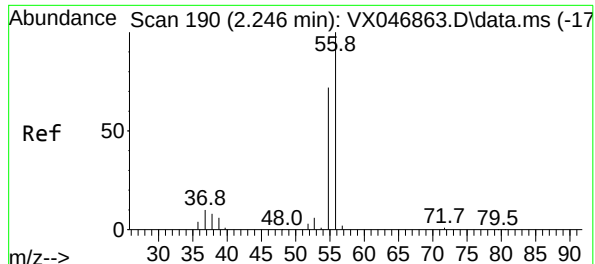
Ion Ratio Lower Upper

96 100

61 162.8 130.2 195.4

98 64.1 51.3 76.9





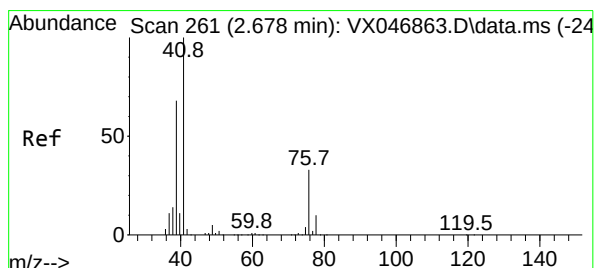
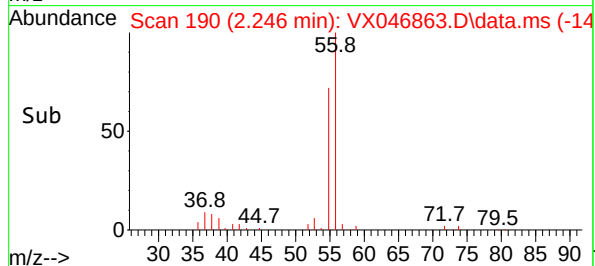
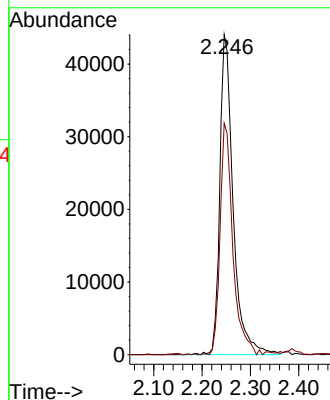
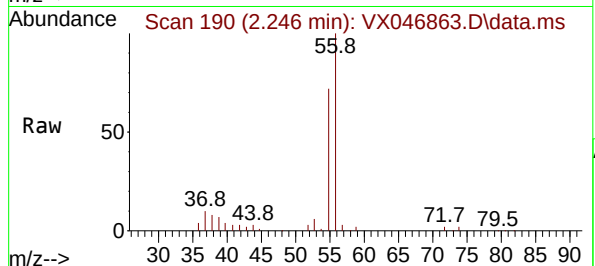
#13
Acrolein
Concen: 238.671 ug/l
RT: 2.246 min Scan# 190
Delta R.T. -0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 56 Resp: 84088
Ion Ratio Lower Upper
56 100
55 69.4 55.5 83.3

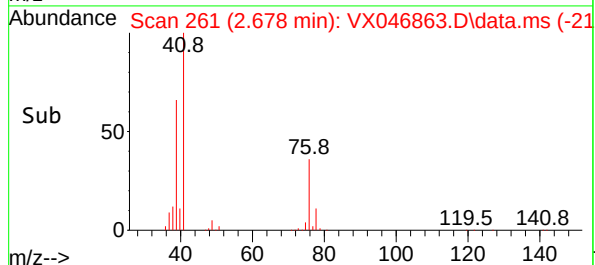
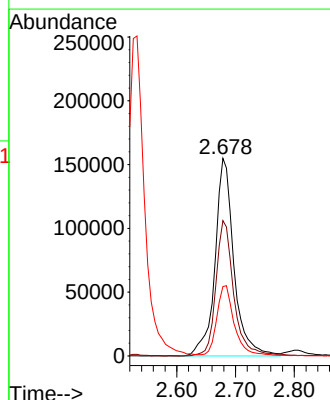
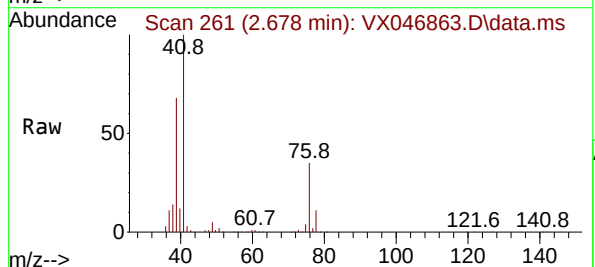
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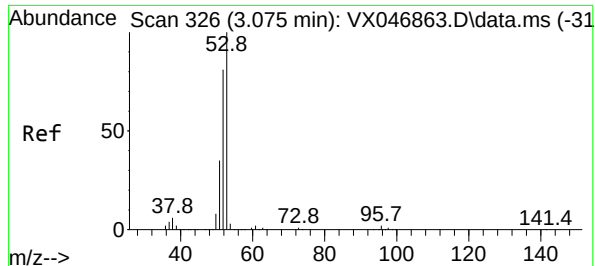
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#14
Allyl chloride
Concen: 48.854 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Tgt Ion: 41 Resp: 347253
Ion Ratio Lower Upper
41 100
39 65.0 52.0 78.0
76 32.7 26.2 39.2





#15

Acrylonitrile

Concen: 244.641 ug/l

RT: 3.075 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

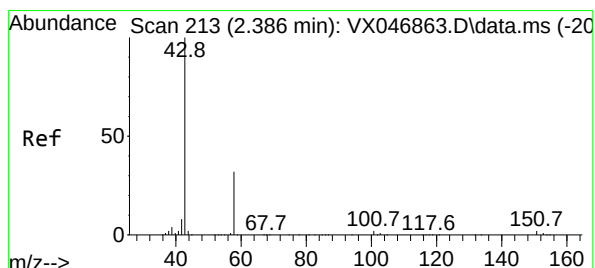
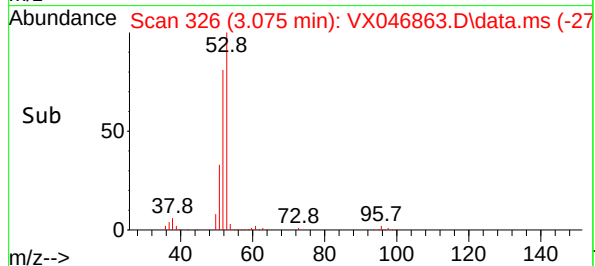
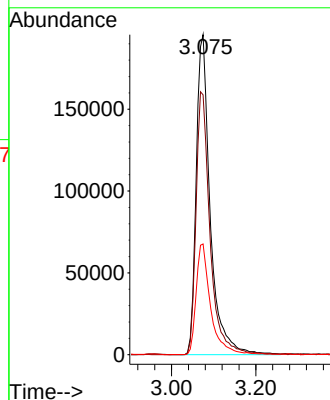
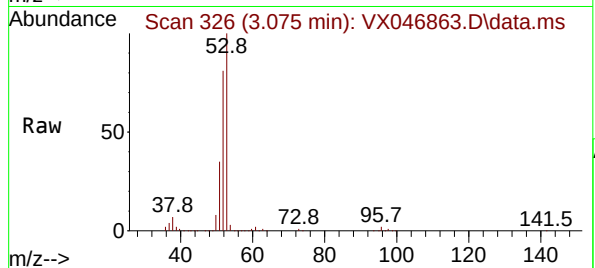
VSTDICCC050

Tgt Ion:	53	Resp:	45304
Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.0	99.0
51	35.8	28.6	43.0

Manual Integrations
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Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#16

Acetone

Concen: 235.495 ug/l

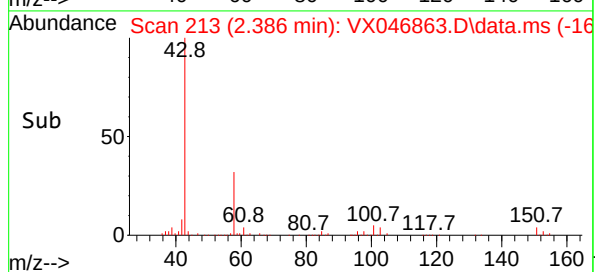
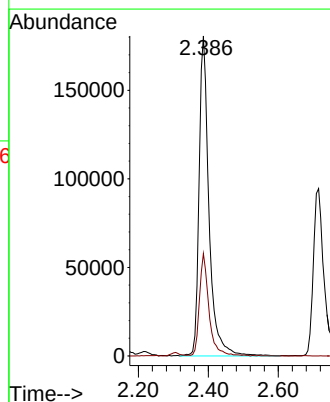
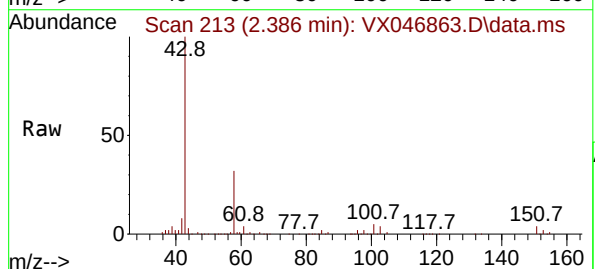
RT: 2.386 min Scan# 213

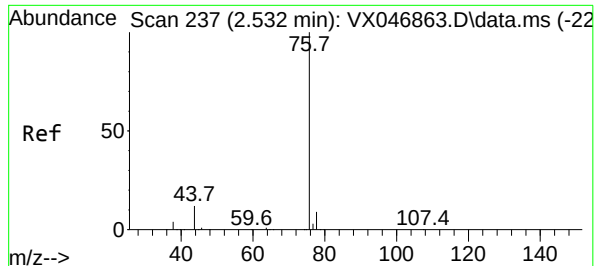
Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Tgt Ion:	43	Resp:	355803
Ion	Ratio	Lower	Upper
43	100		
58	32.2	25.8	38.6





#17

Carbon Disulfide

Concen: 47.196 ug/l

RT: 2.532 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 49415

Ion Ratio Lower Upper

76 100

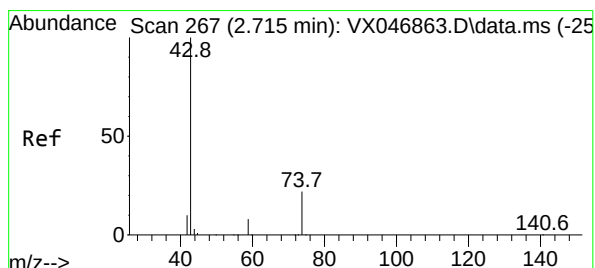
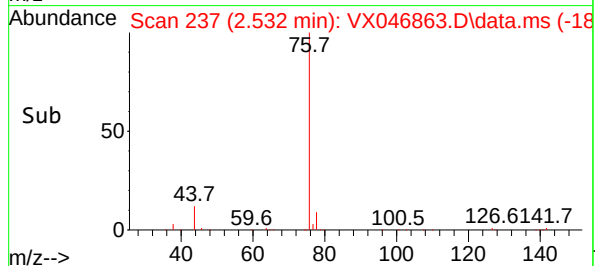
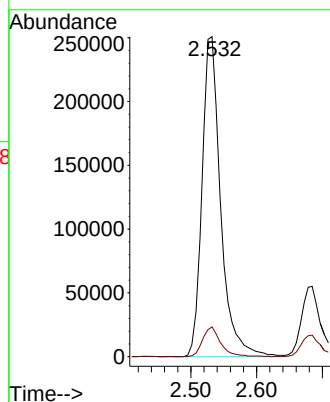
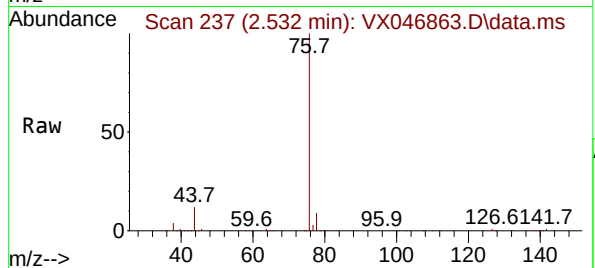
78 9.3 7.4 11.2

Manual Integrations

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Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#18

Methyl Acetate

Concen: 51.137 ug/l

RT: 2.715 min Scan# 267

Delta R.T. 0.000 min

Lab File: VX046863.D

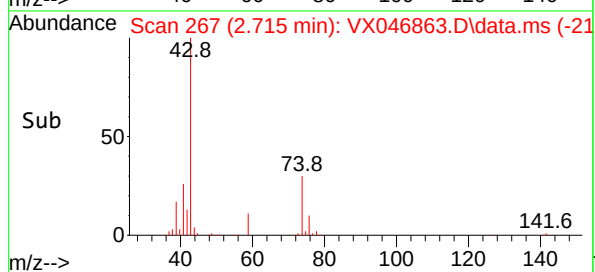
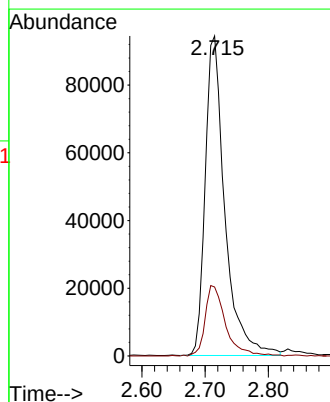
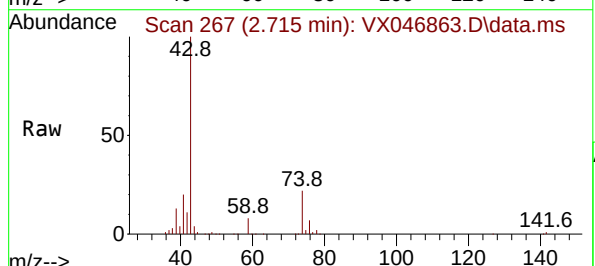
Acq: 02 Jul 2025 13:39

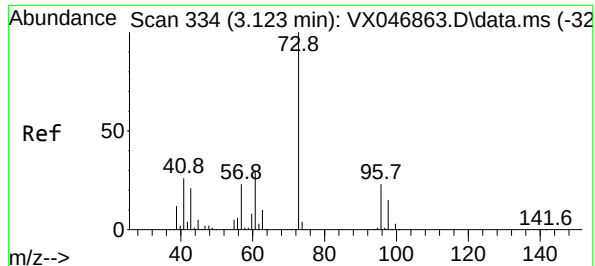
Tgt Ion: 43 Resp: 203643

Ion Ratio Lower Upper

43 100

74 22.9 18.3 27.5





#19

Methyl tert-butyl Ether

Concen: 49.898 ug/l

RT: 3.123 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 56256

Ion Ratio Lower Upper

73 100

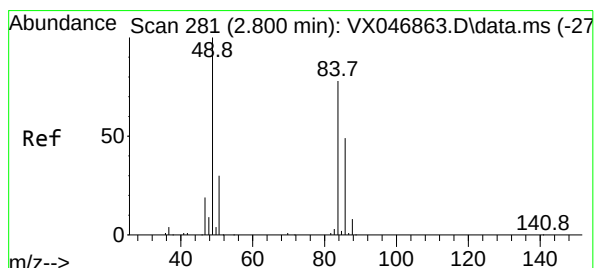
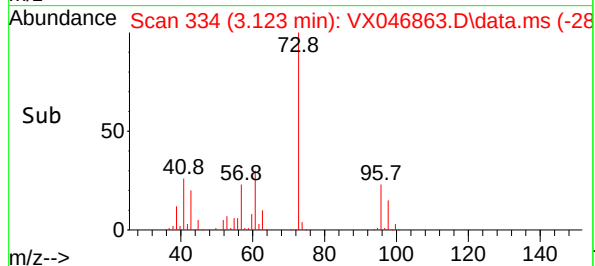
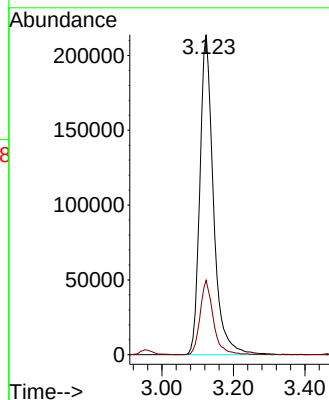
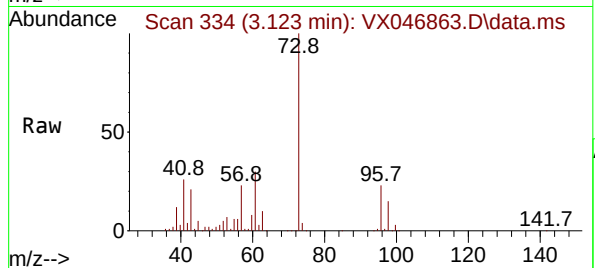
57 23.3 18.6 28.0

Manual Integrations

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Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#20

Methylene Chloride

Concen: 48.215 ug/l

RT: 2.800 min Scan# 281

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Tgt Ion: 84 Resp: 215411

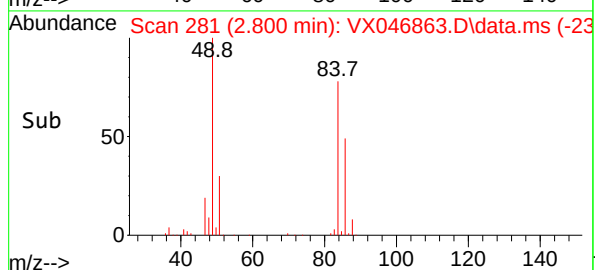
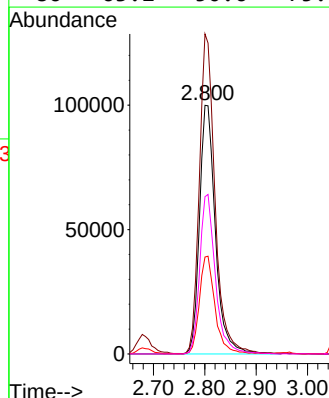
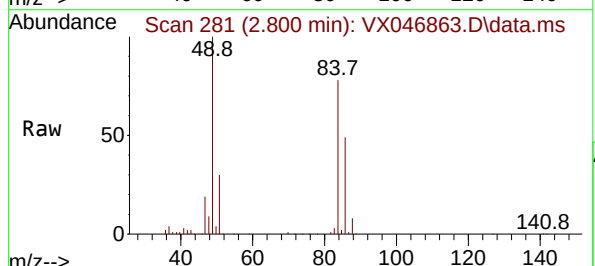
Ion Ratio Lower Upper

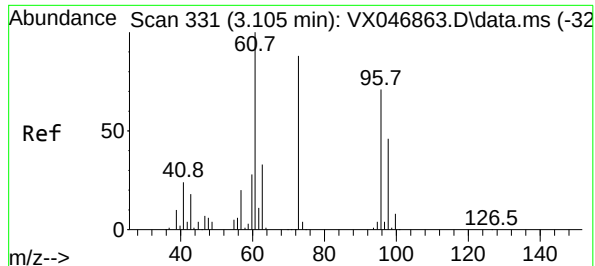
84 100

49 128.5 102.8 154.2

51 38.9 31.1 46.7

86 63.2 50.6 75.8





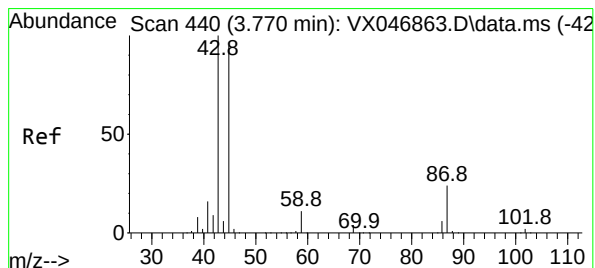
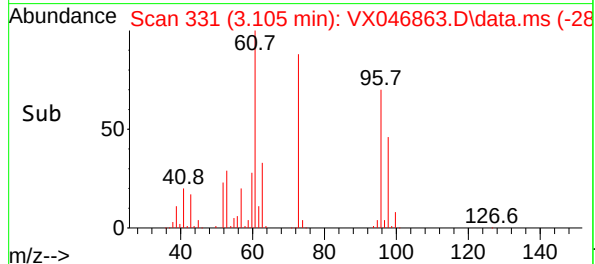
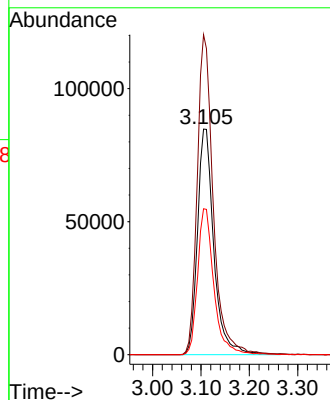
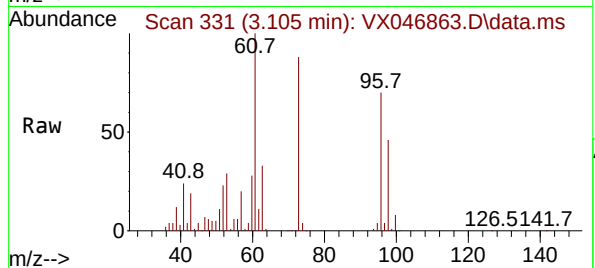
#21
trans-1,2-Dichloroethene
Concen: 48.748 ug/l
RT: 3.105 min Scan# 331
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 96 Resp: 199150
Ion Ratio Lower Upper
96 100
61 141.8 113.4 170.2
98 64.7 51.8 77.6

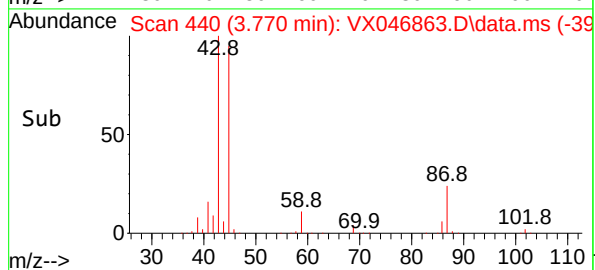
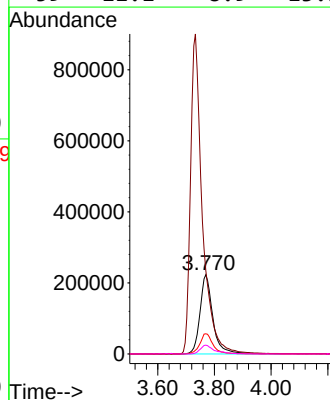
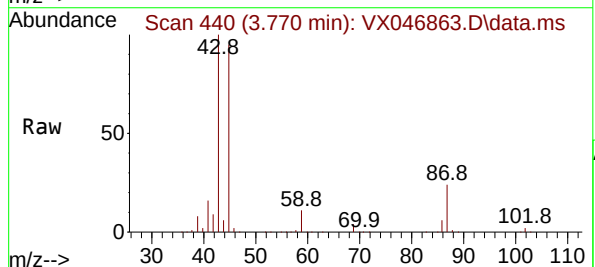
Manual Integrations
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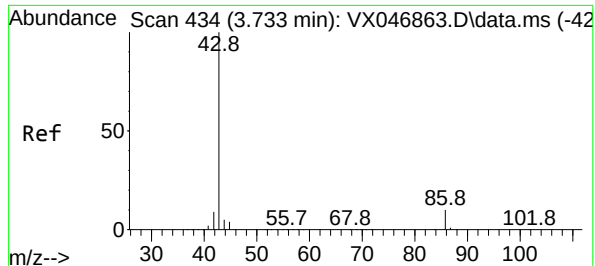
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#22
Diisopropyl ether
Concen: 51.071 ug/l
RT: 3.770 min Scan# 440
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Tgt Ion: 45 Resp: 701332
Ion Ratio Lower Upper
45 100
43 105.3 84.2 126.4
87 25.4 20.3 30.5
59 11.1 8.9 13.3





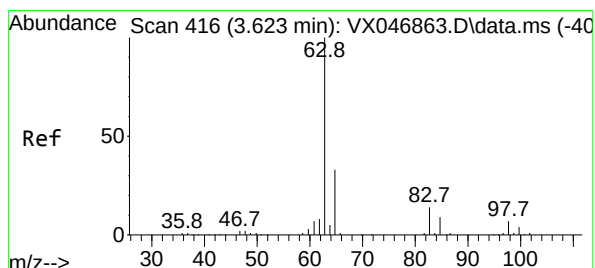
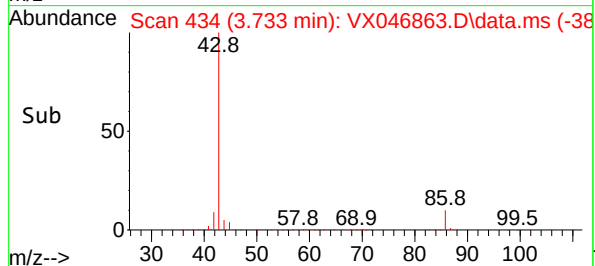
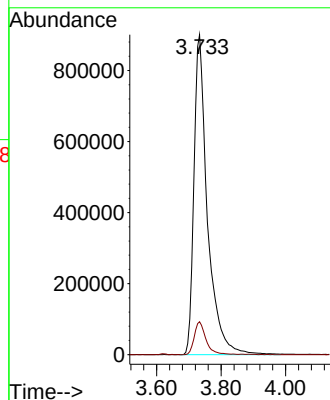
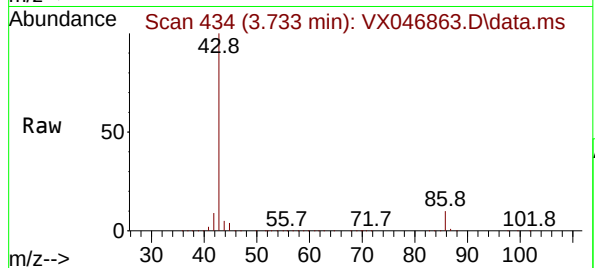
#23
Vinyl Acetate
Concen: 254.689 ug/l
RT: 3.733 min Scan# 41
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 2620249
Ion Ratio Lower Upper
43 100
86 10.3 8.2 12.4

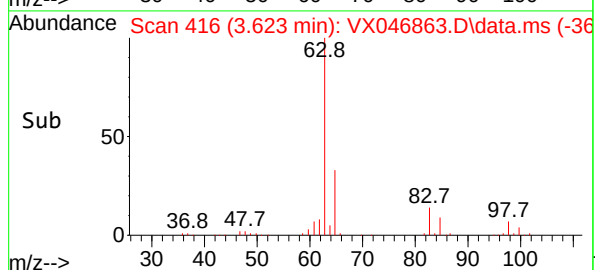
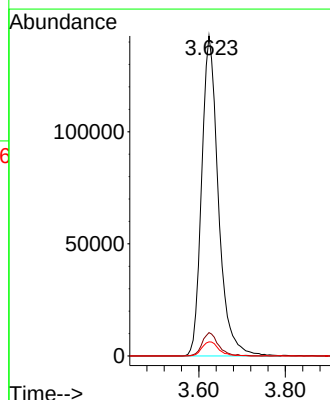
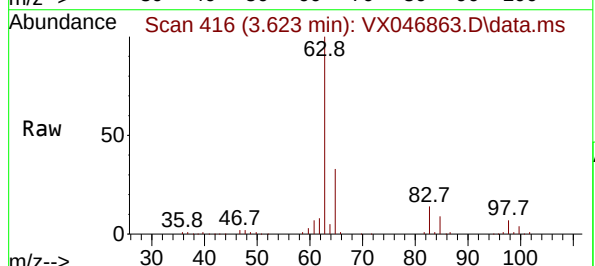
Manual Integrations
APPROVED

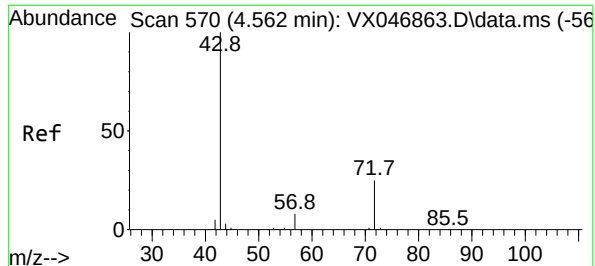
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#24
1,1-Dichloroethane
Concen: 48.841 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Tgt Ion: 63 Resp: 382510
Ion Ratio Lower Upper
63 100
98 7.3 3.6 10.9
100 4.6 2.3 6.9





#25

2-Butanone

Concen: 251.252 ug/l

RT: 4.562 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 506469

Ion Ratio Lower Upper

43 100

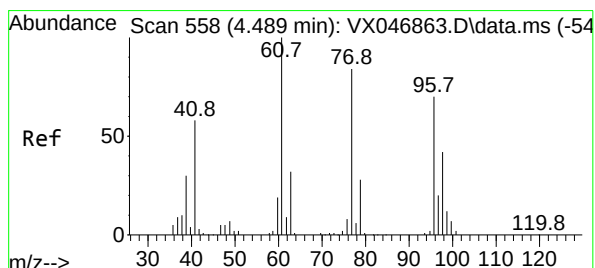
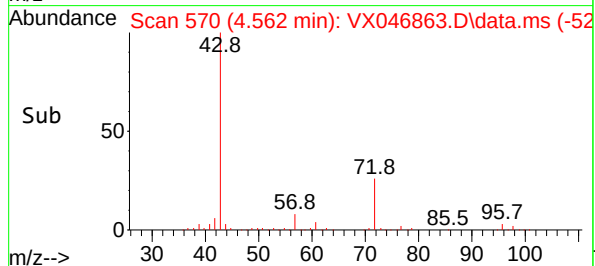
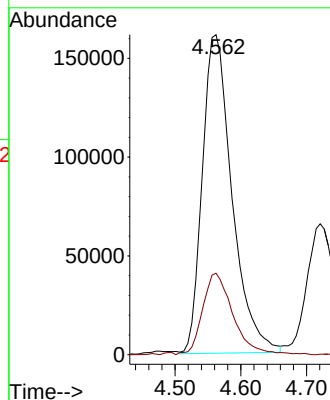
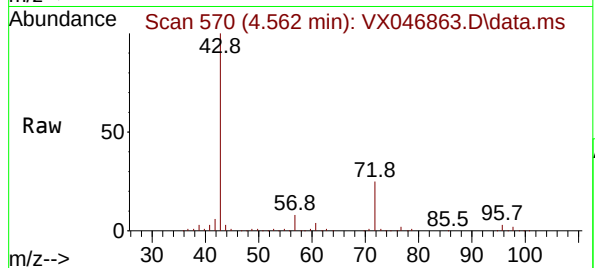
72 25.0 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#26

2,2-Dichloropropane

Concen: 48.066 ug/l

RT: 4.489 min Scan# 558

Delta R.T. 0.000 min

Lab File: VX046863.D

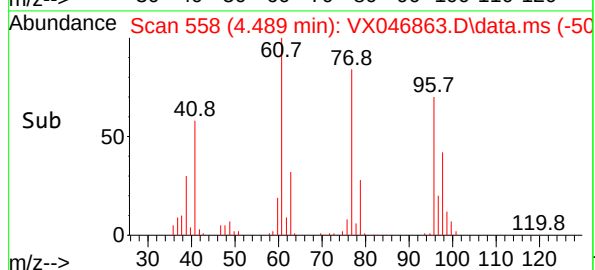
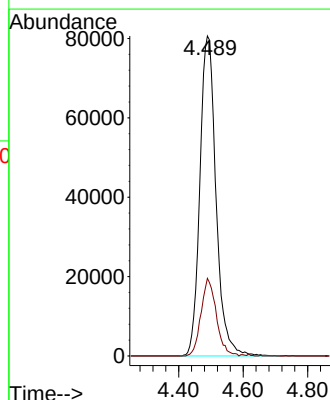
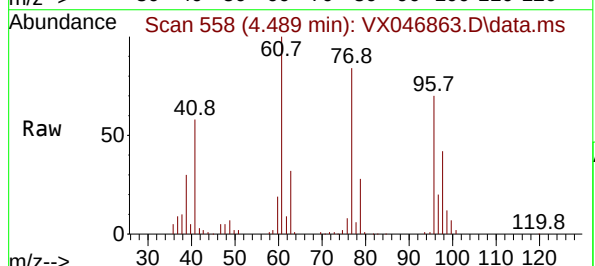
Acq: 02 Jul 2025 13:39

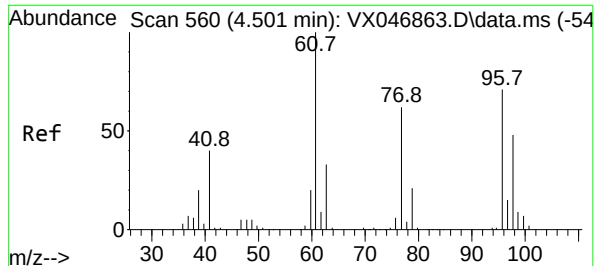
Tgt Ion: 77 Resp: 280159

Ion Ratio Lower Upper

77 100

97 23.0 11.5 34.5





#27

cis-1,2-Dichloroethene

Concen: 48.734 ug/l

RT: 4.501 min Scan# 560

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 243080

Ion Ratio Lower Upper

96 100

61 144.3 0.0 288.6

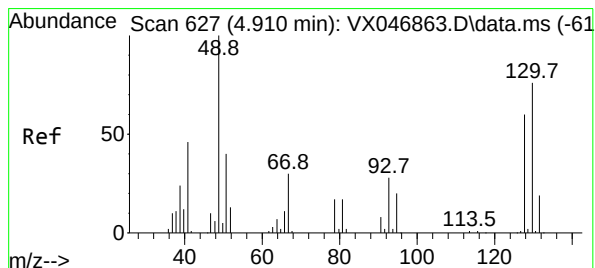
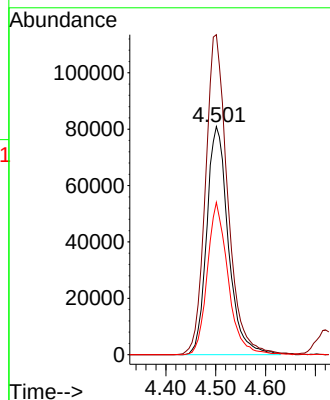
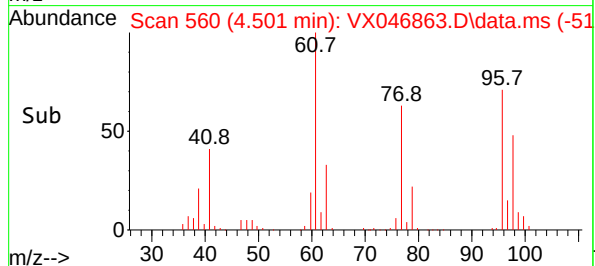
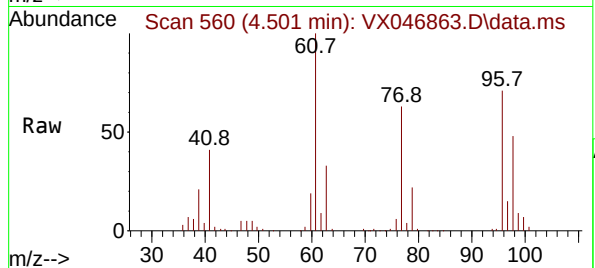
98 64.4 0.0 128.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#28

Bromochloromethane

Concen: 50.303 ug/l

RT: 4.910 min Scan# 627

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

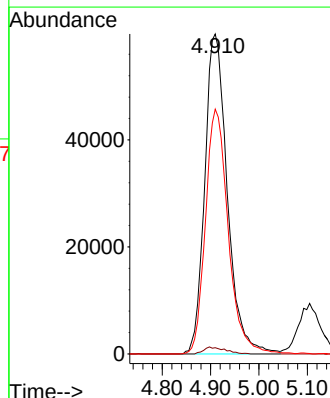
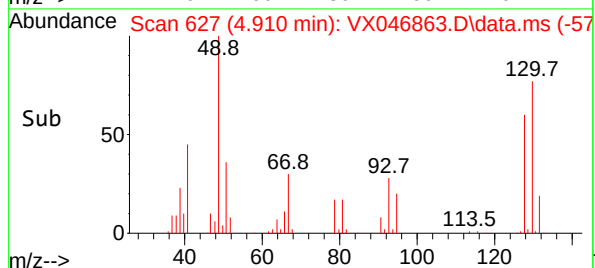
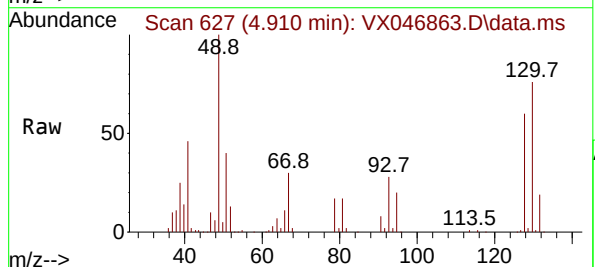
Tgt Ion: 49 Resp: 194431

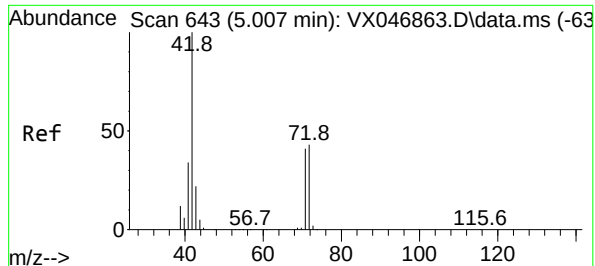
Ion Ratio Lower Upper

49 100

129 2.1 0.0 4.2

130 77.1 61.7 92.5





#29

Tetrahydrofuran

Concen: 251.209 ug/l

RT: 5.007 min Scan# 643

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 322800

Ion Ratio Lower Upper

42 100

72 43.9 35.1 52.7

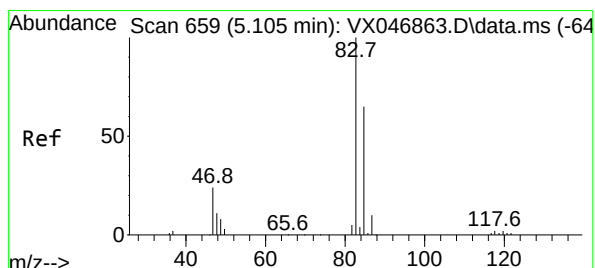
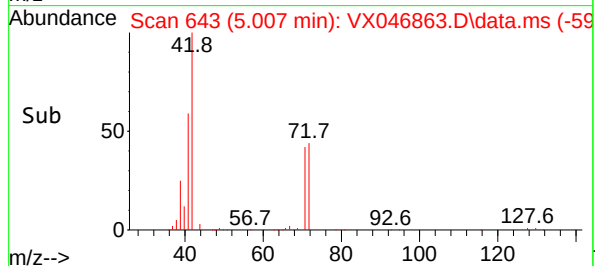
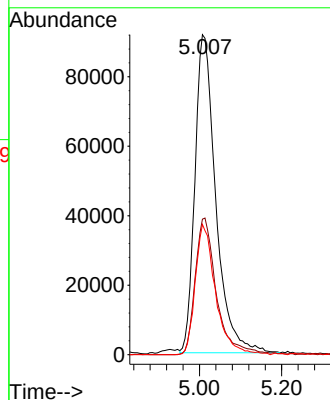
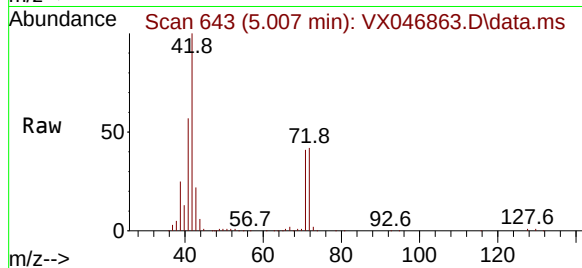
71 39.9 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#30

Chloroform

Concen: 48.247 ug/l

RT: 5.105 min Scan# 659

Delta R.T. 0.000 min

Lab File: VX046863.D

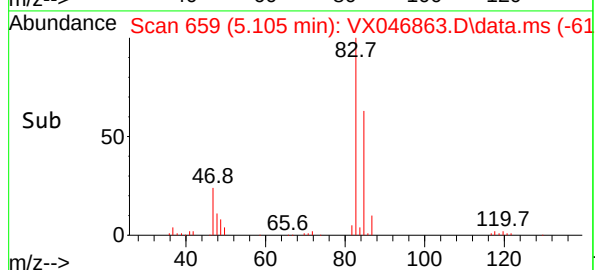
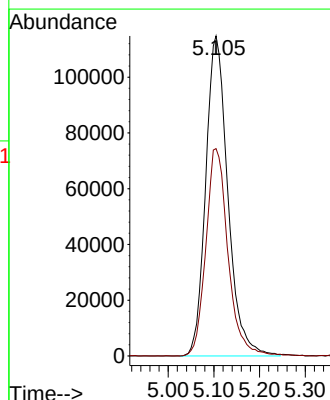
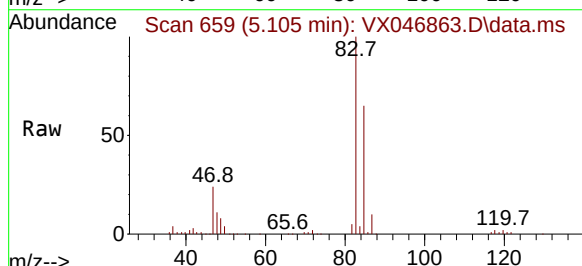
Acq: 02 Jul 2025 13:39

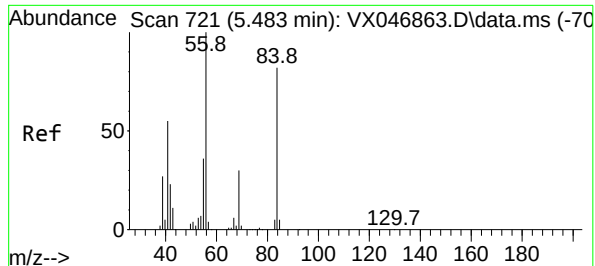
Tgt Ion: 83 Resp: 386035

Ion Ratio Lower Upper

83 100

85 64.8 51.8 77.8





#31

Cyclohexane

Concen: 48.598 ug/l

RT: 5.483 min Scan# 721

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 337894

Ion Ratio Lower Upper

56 100

69 30.0 24.0 36.0

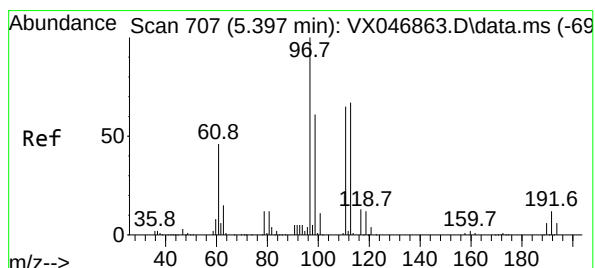
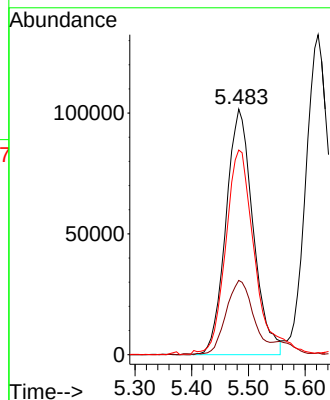
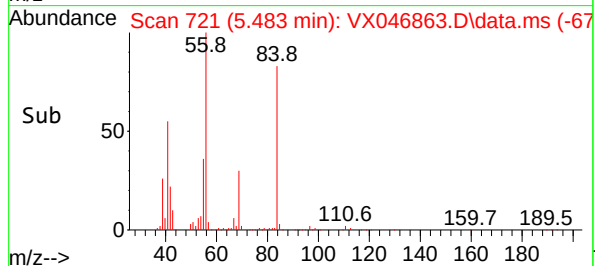
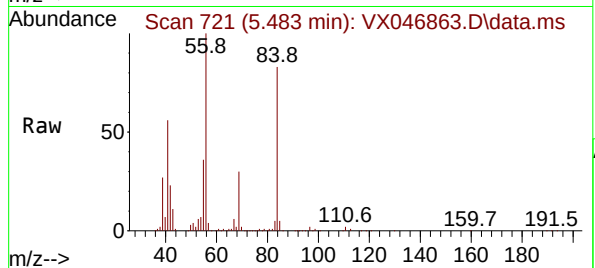
84 83.1 66.5 99.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#32

1,1,1-Trichloroethane

Concen: 48.811 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

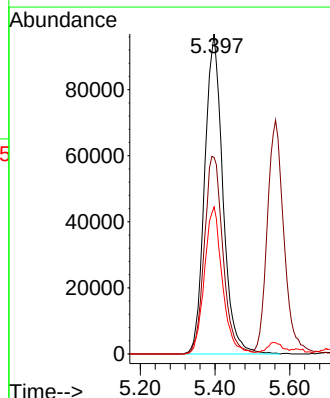
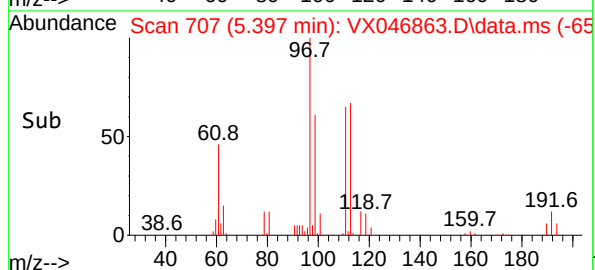
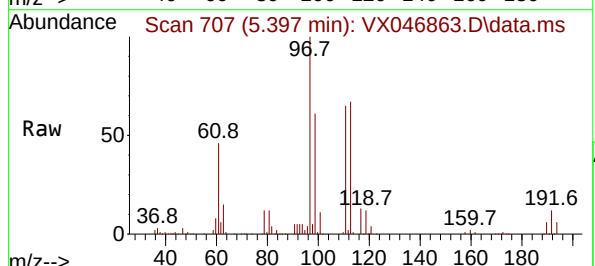
Tgt Ion: 97 Resp: 326288

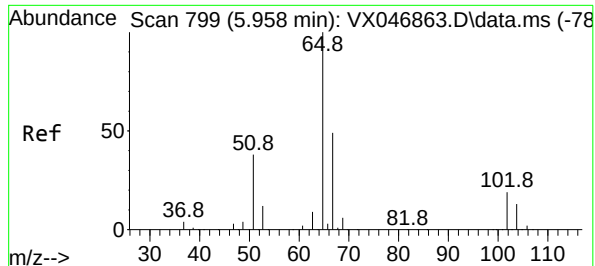
Ion Ratio Lower Upper

97 100

99 63.3 50.6 76.0

61 45.4 36.3 54.5





#33

1,2-Dichloroethane-d4

Concen: 48.973 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 238200

Ion Ratio Lower Upper

65 100

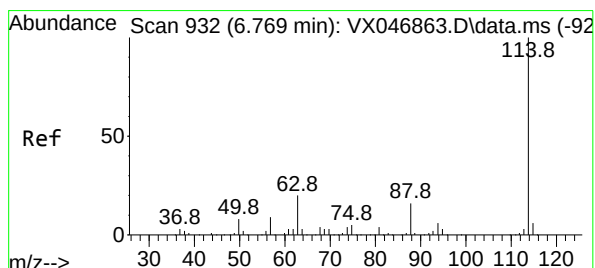
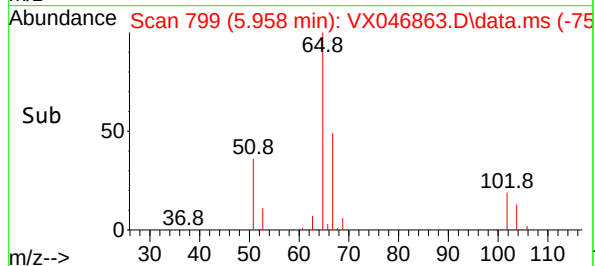
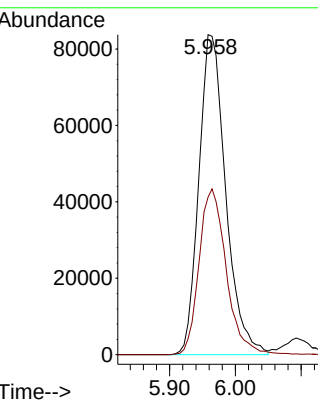
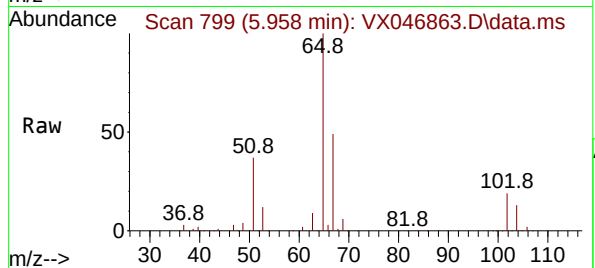
67 52.6 0.0 105.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

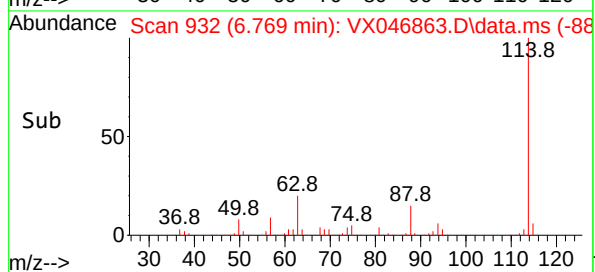
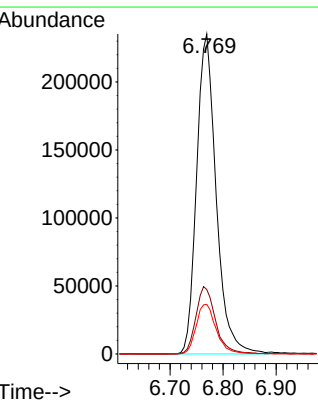
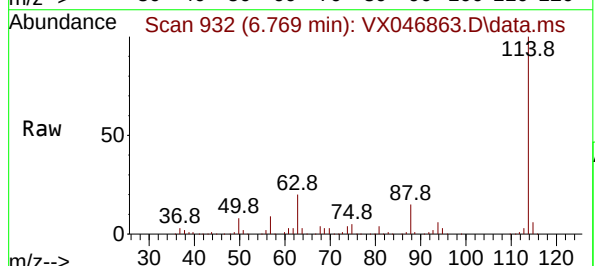
Tgt Ion:114 Resp: 601240

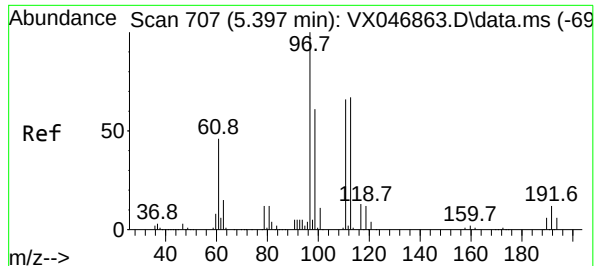
Ion Ratio Lower Upper

114 100

63 20.2 0.0 40.4

88 15.5 0.0 31.0





#35

Dibromofluoromethane

Concen: 49.939 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:113 Resp: 203814

Ion Ratio Lower Upper

113 100

111 101.5 81.2 121.8

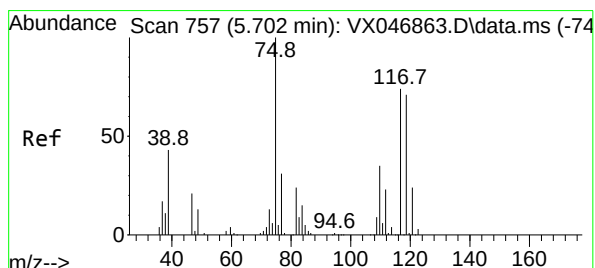
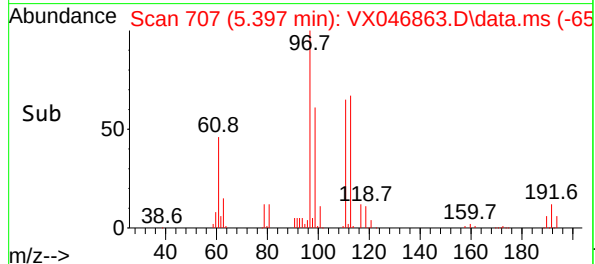
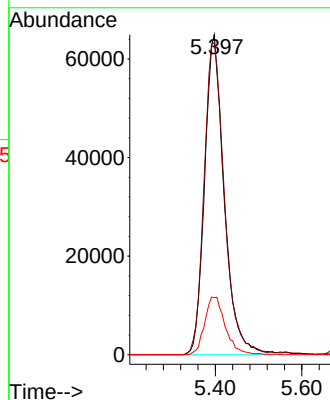
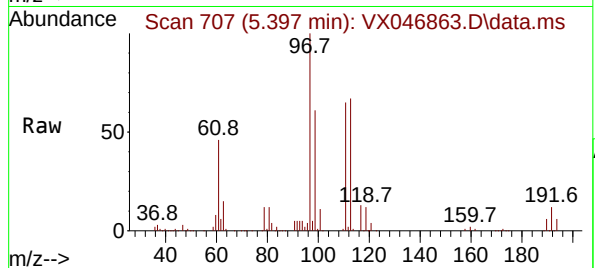
192 19.1 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#36

1,1-Dichloropropene

Concen: 47.988 ug/l

RT: 5.702 min Scan# 757

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

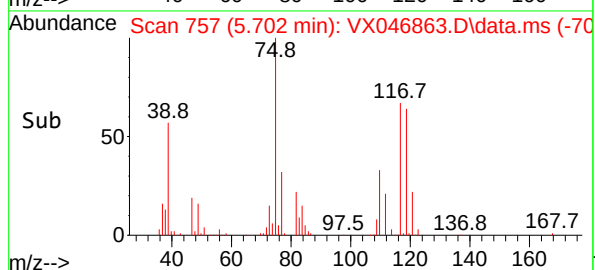
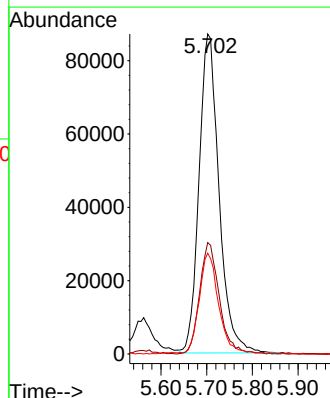
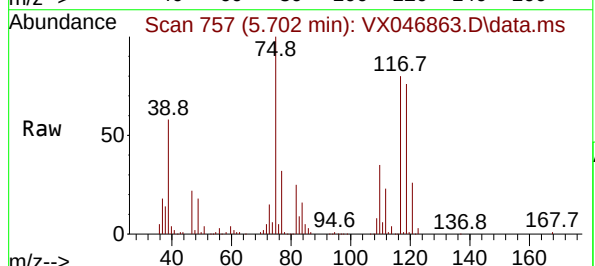
Tgt Ion: 75 Resp: 264243

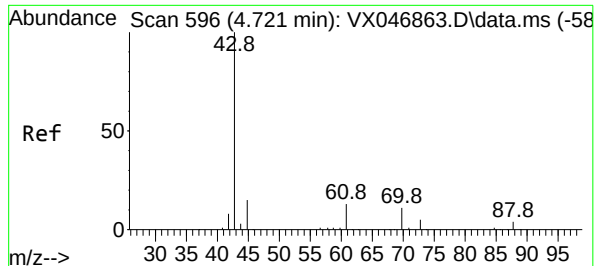
Ion Ratio Lower Upper

75 100

110 34.6 17.3 51.9

77 30.3 24.2 36.4





#37

Ethyl Acetate

Concen: 46.111 ug/l

RT: 4.721 min Scan# 596

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 21625

Ion Ratio Lower Upper

43 100

61 12.1 9.7 14.5

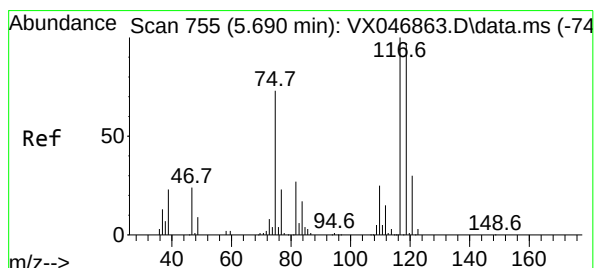
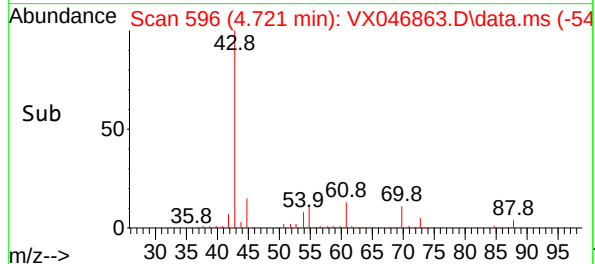
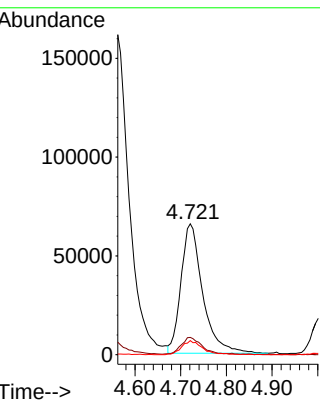
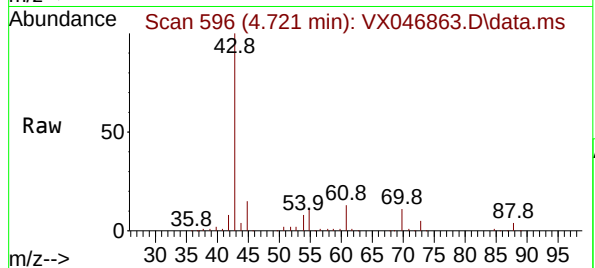
70 10.4 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#38

Carbon Tetrachloride

Concen: 48.549 ug/l

RT: 5.690 min Scan# 755

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

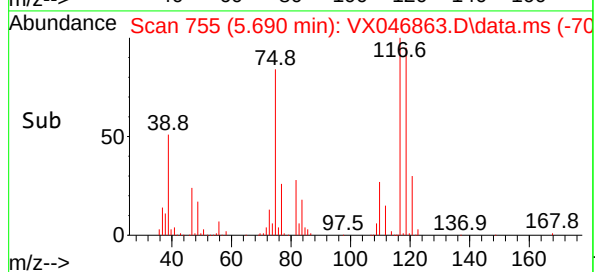
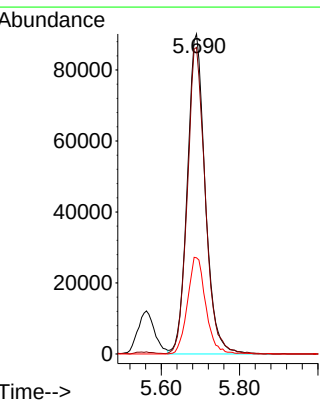
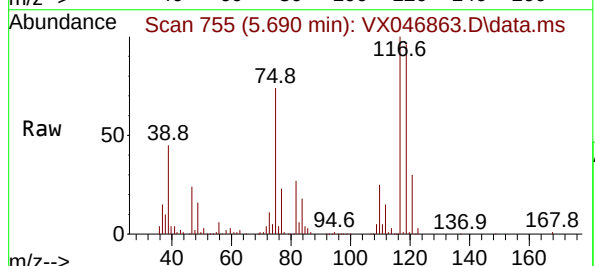
Tgt Ion:117 Resp: 286310

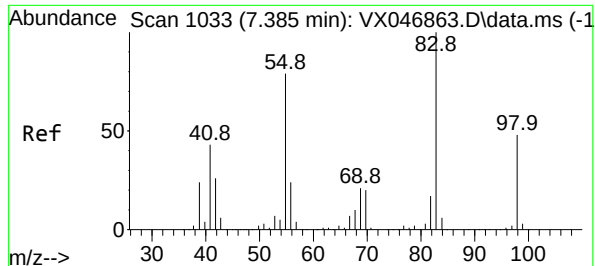
Ion Ratio Lower Upper

117 100

119 95.7 76.6 114.8

121 30.1 24.1 36.1





#39

Methylcyclohexane

Concen: 49.529 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 341159

Ion Ratio Lower Upper

83 100

55 78.7 63.0 94.4

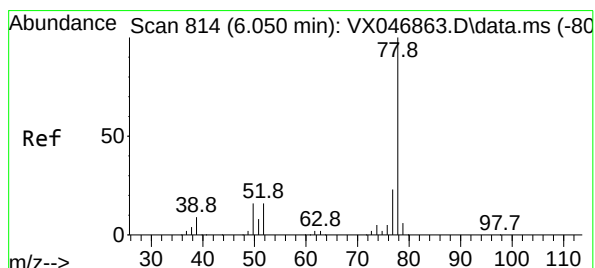
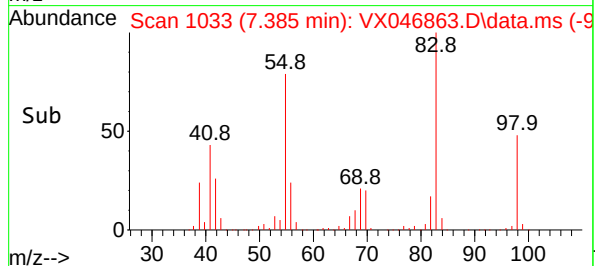
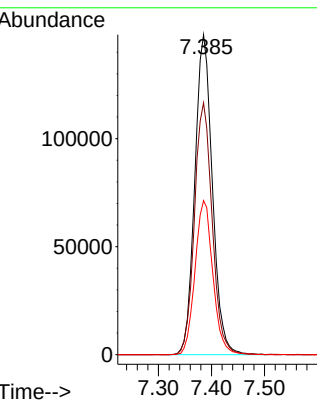
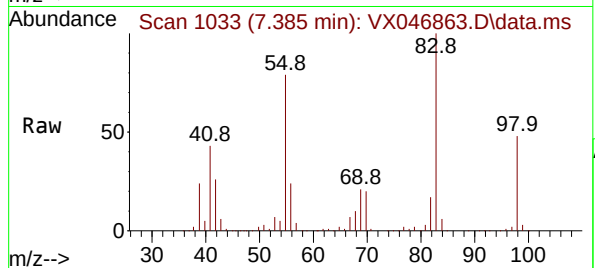
98 48.1 38.5 57.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#40

Benzene

Concen: 48.954 ug/l

RT: 6.050 min Scan# 814

Delta R.T. 0.000 min

Lab File: VX046863.D

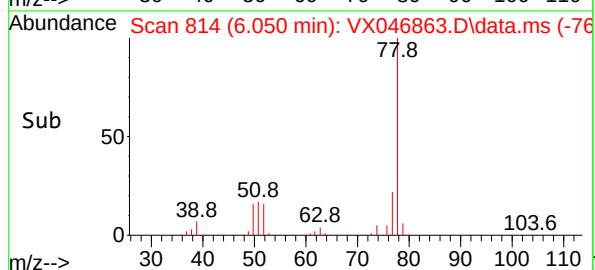
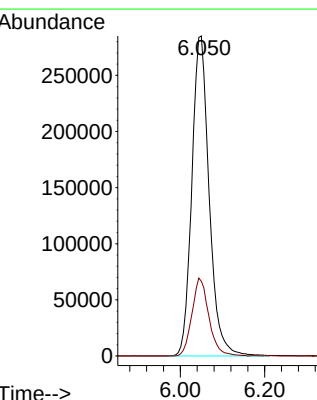
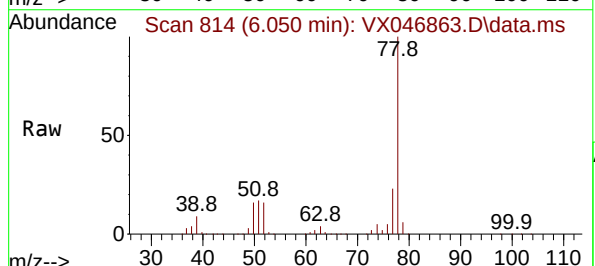
Acq: 02 Jul 2025 13:39

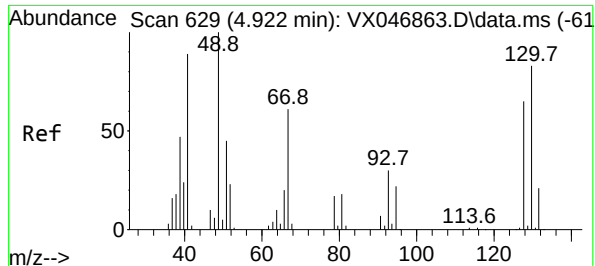
Tgt Ion: 78 Resp: 815341

Ion Ratio Lower Upper

78 100

77 23.4 18.7 28.1





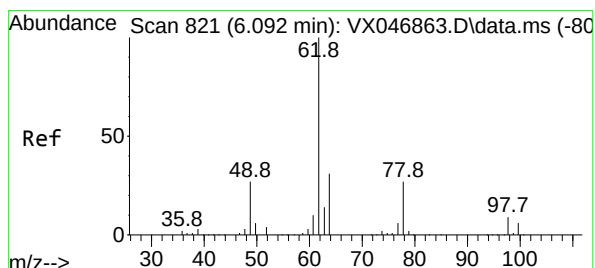
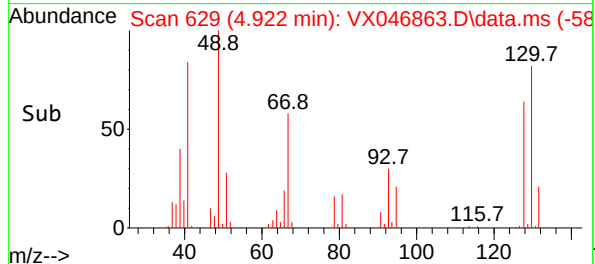
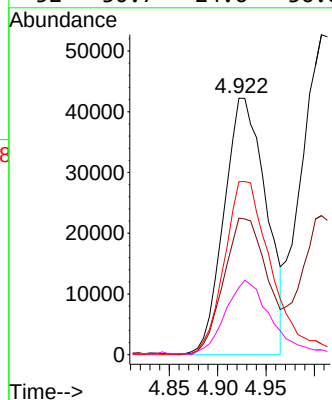
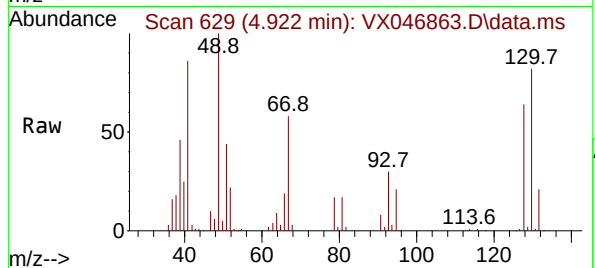
#41
Methacrylonitrile
Concen: 51.128 ug/l
RT: 4.922 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 12791
Ion Ratio Lower Upper
41 100
39 53.7 43.0 64.4
67 75.2 60.2 90.2
52 30.7 24.6 36.8

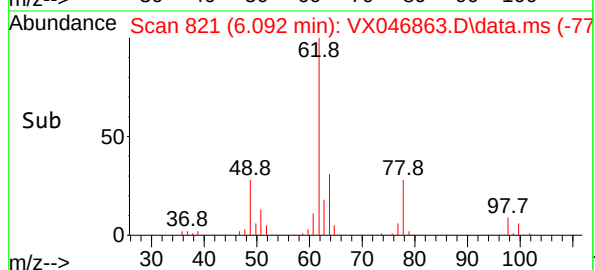
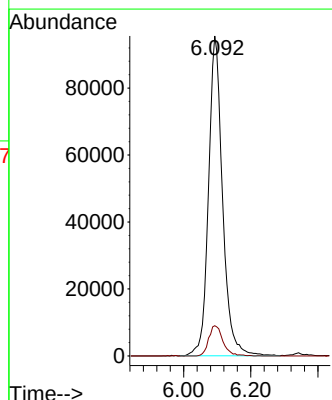
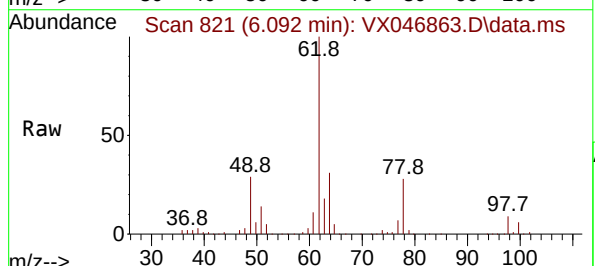
Manual Integrations
APPROVED

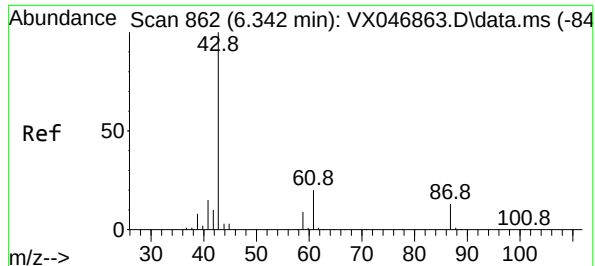
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#42
1,2-Dichloroethane
Concen: 48.913 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Tgt Ion: 62 Resp: 276628
Ion Ratio Lower Upper
62 100
98 9.7 0.0 19.4





#43

Isopropyl Acetate

Concen: 51.765 ug/l

RT: 6.342 min Scan# 862

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 371859

Ion Ratio Lower Upper

43 100

61 19.6 15.7 23.5

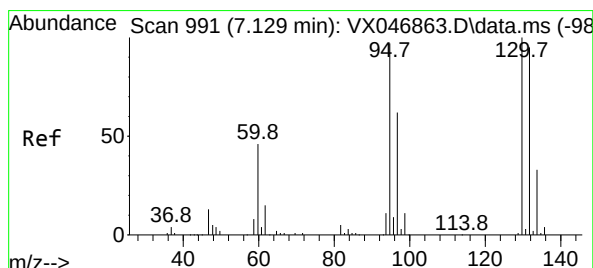
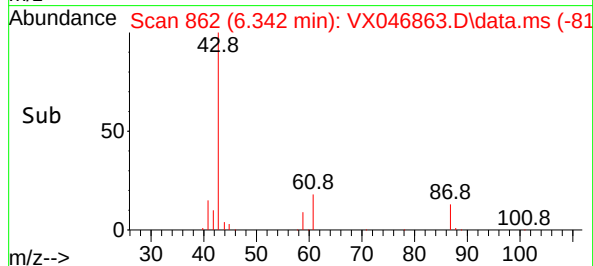
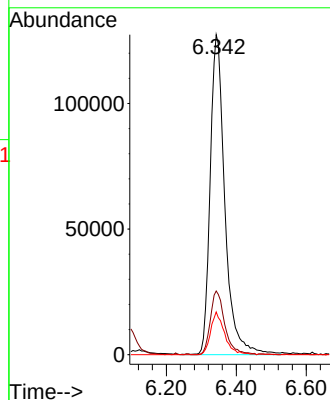
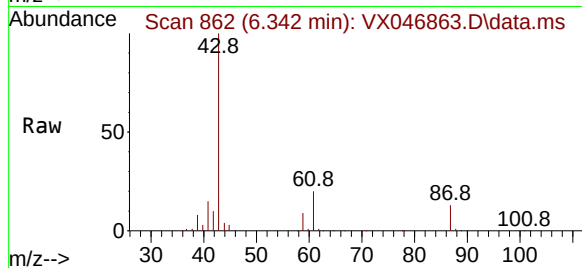
87 12.6 10.1 15.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#44

Trichloroethene

Concen: 47.708 ug/l

RT: 7.129 min Scan# 991

Delta R.T. 0.000 min

Lab File: VX046863.D

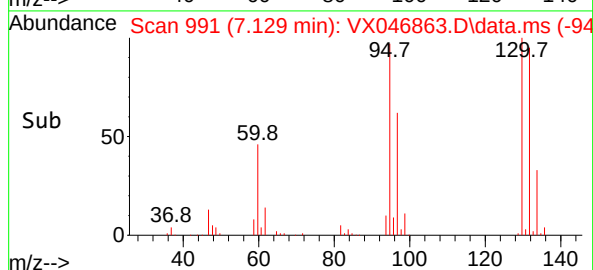
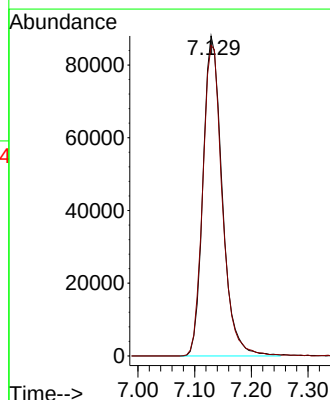
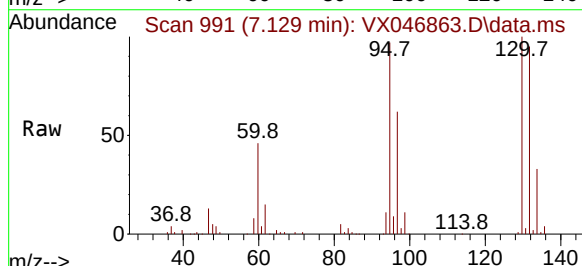
Acq: 02 Jul 2025 13:39

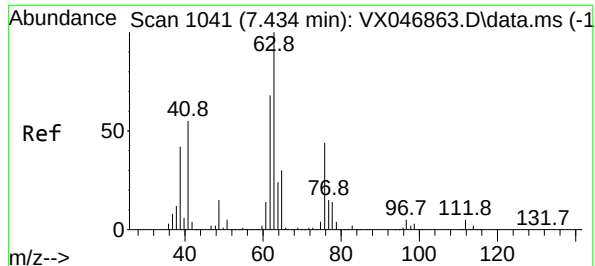
Tgt Ion:130 Resp: 206841

Ion Ratio Lower Upper

130 100

95 97.1 0.0 194.2





#45

1,2-Dichloropropane

Concen: 49.398 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 207864

Ion Ratio Lower Upper

63 100

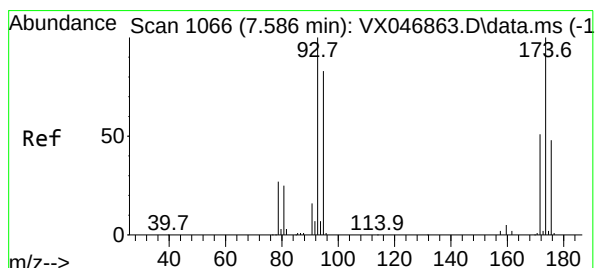
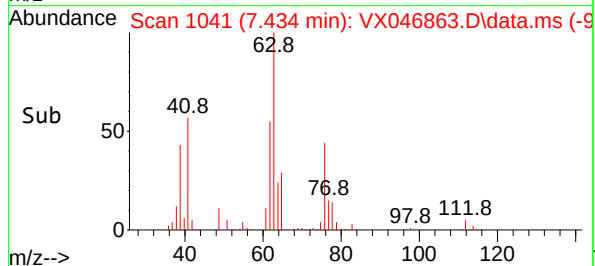
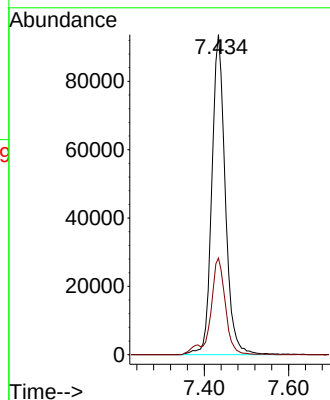
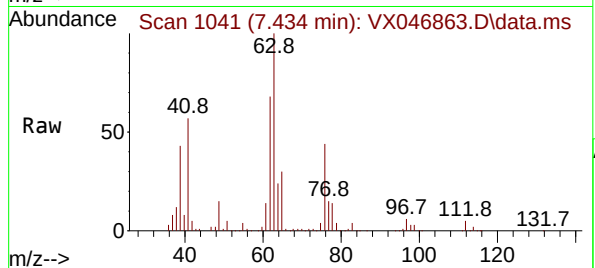
65 30.2 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#46

Dibromomethane

Concen: 49.430 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

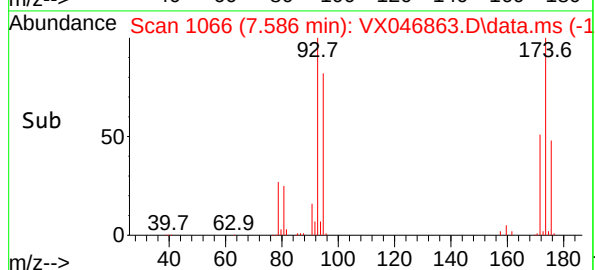
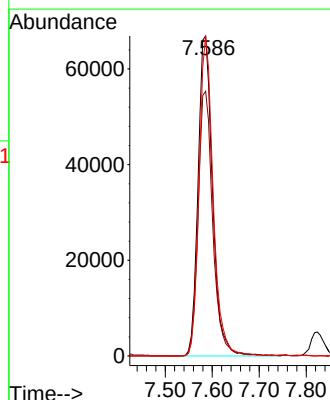
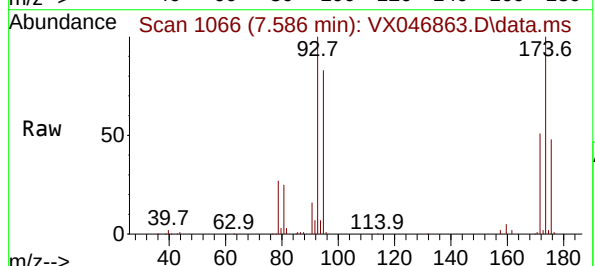
Tgt Ion: 93 Resp: 144114

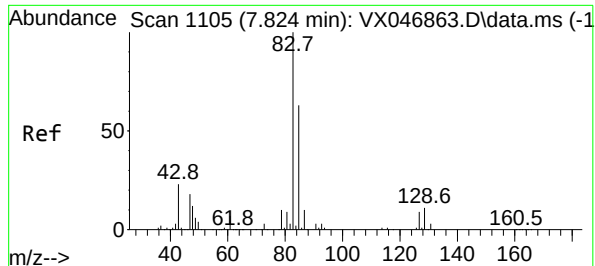
Ion Ratio Lower Upper

93 100

95 83.2 66.6 99.8

174 96.8 77.4 116.2





#47

Bromodichloromethane

Concen: 49.265 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

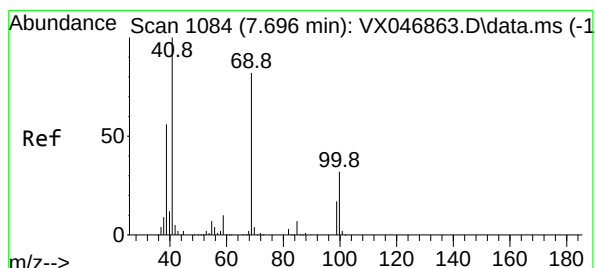
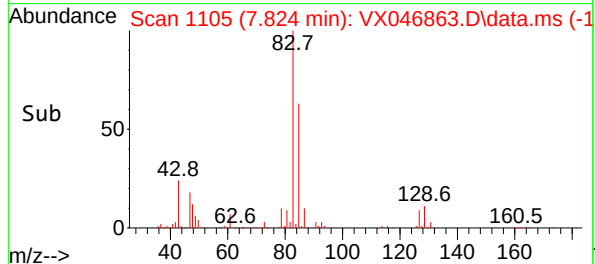
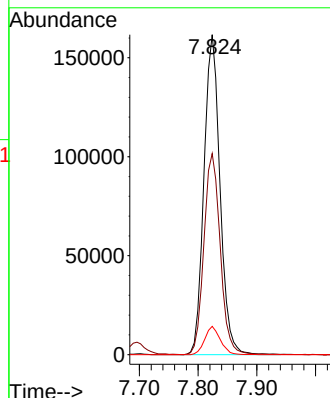
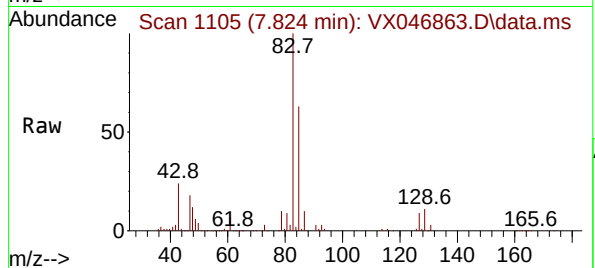
Tgt Ion: 83 Resp: 306690

Ion	Ratio	Lower	Upper
83	100		
85	62.8	50.2	75.4
127	8.9	7.1	10.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#48

Methyl methacrylate

Concen: 52.165 ug/l

RT: 7.696 min Scan# 1084

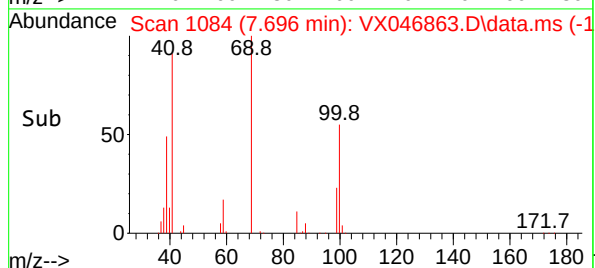
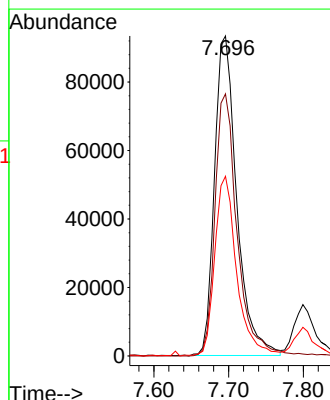
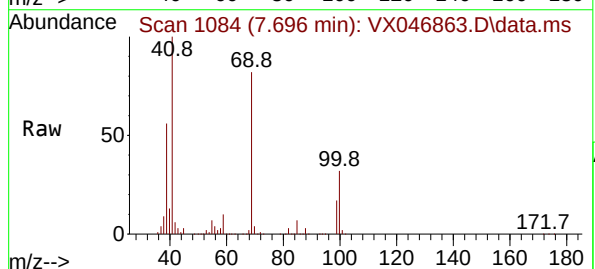
Delta R.T. 0.000 min

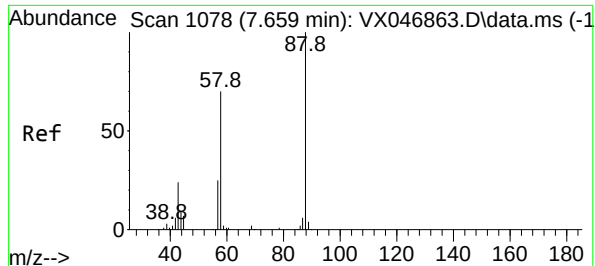
Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Tgt Ion: 41 Resp: 193493

Ion	Ratio	Lower	Upper
41	100		
69	82.3	65.8	98.8
39	54.7	43.8	65.6





#49

1,4-Dioxane

Concen: 1015.947 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

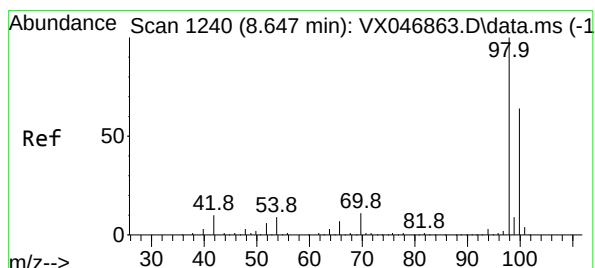
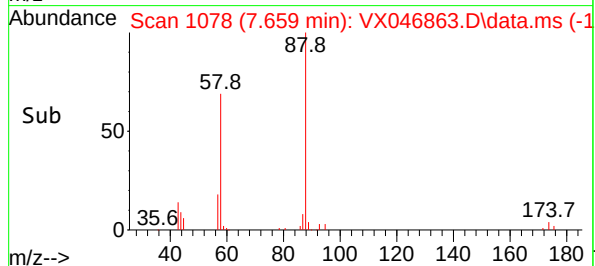
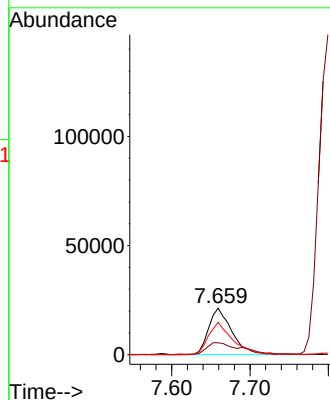
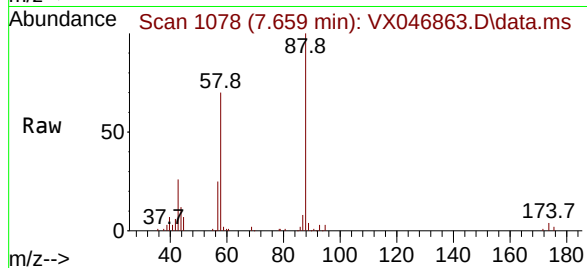
VSTDICCC050

Tgt Ion:	88	Resp:	43664
Ion	Ratio	Lower	Upper
88	100		
43	39.6	31.7	47.5
58	71.9	57.5	86.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#50

Toluene-d8

Concen: 49.879 ug/l

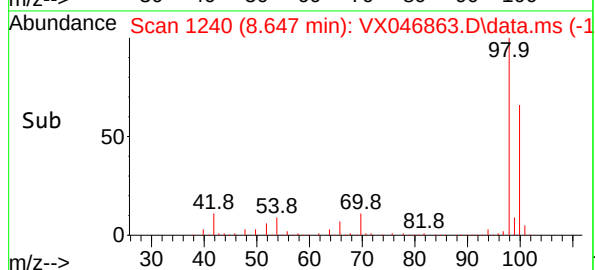
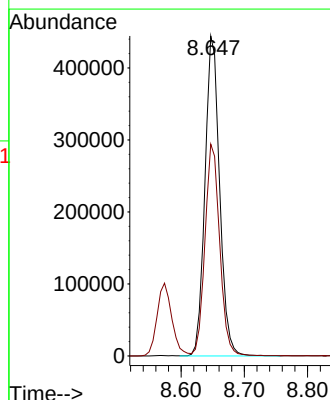
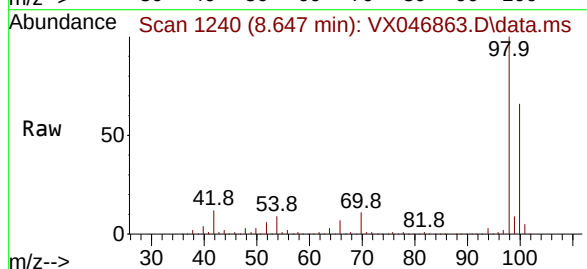
RT: 8.647 min Scan# 1240

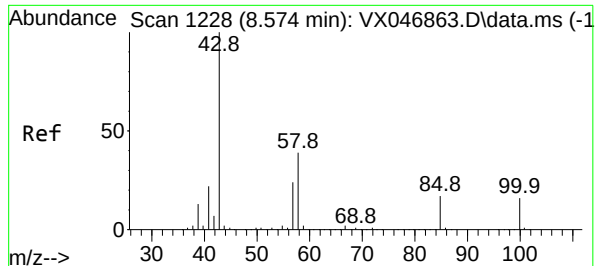
Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Tgt Ion:	98	Resp:	718232
Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.0	79.6





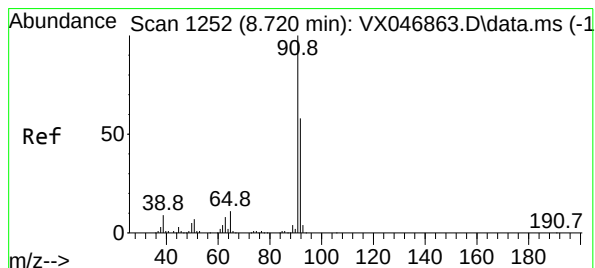
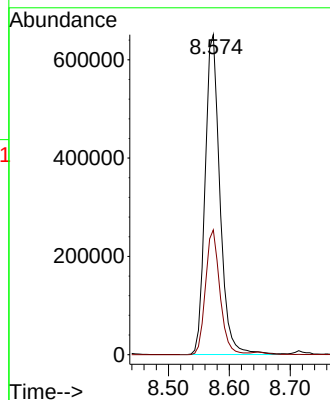
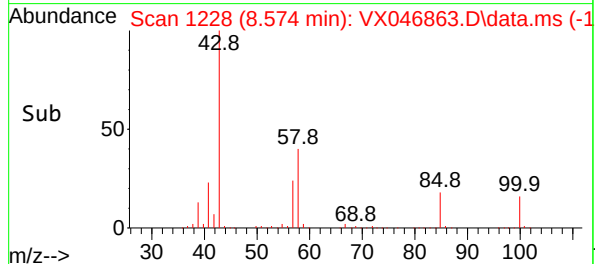
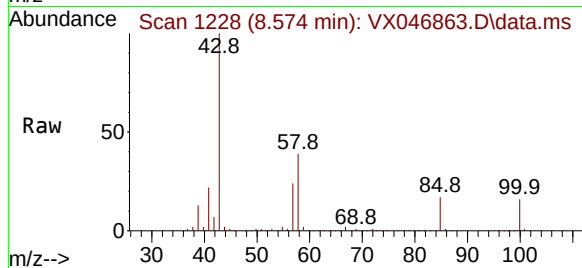
#51
4-Methyl-2-Pentanone
Concen: 259.847 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1101634
Ion Ratio Lower Upper
43 100
58 38.0 30.4 45.6

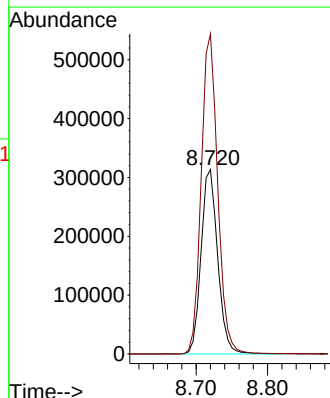
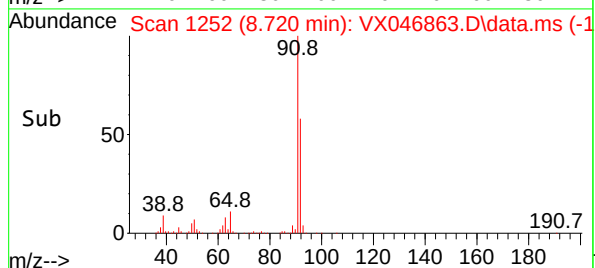
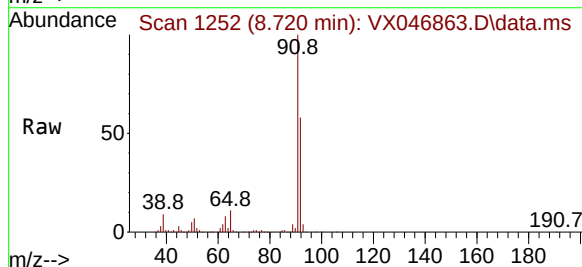
Manual Integrations
APPROVED

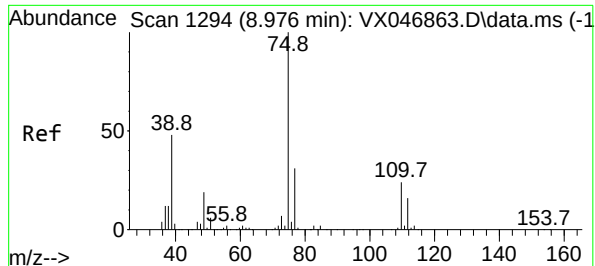
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#52
Toluene
Concen: 48.969 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Tgt Ion: 92 Resp: 505397
Ion Ratio Lower Upper
92 100
91 172.4 137.9 206.9





#53

t-1,3-Dichloropropene

Concen: 51.124 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 75 Resp: 284038

Ion Ratio Lower Upper

75 100

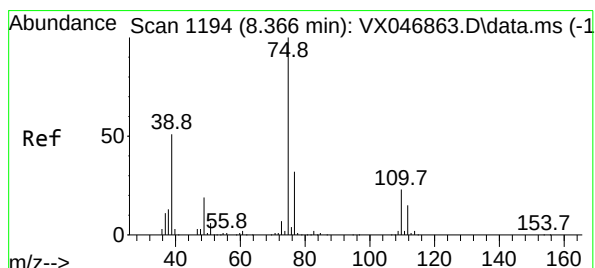
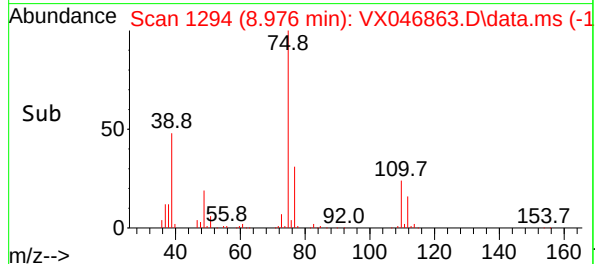
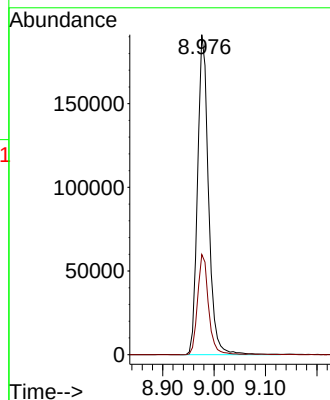
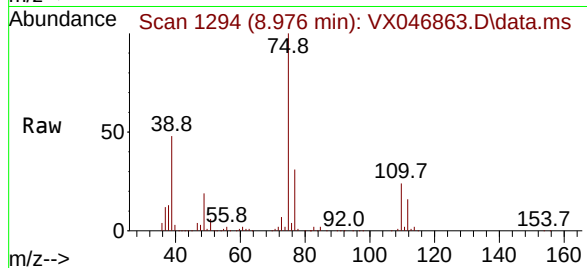
77 31.3 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#54

cis-1,3-Dichloropropene

Concen: 50.567 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

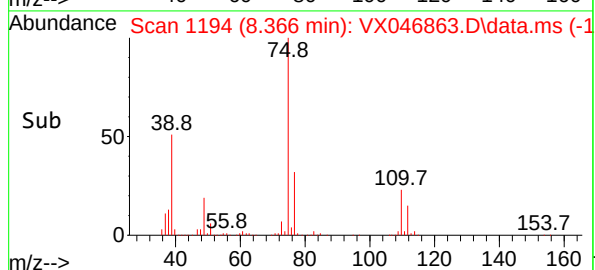
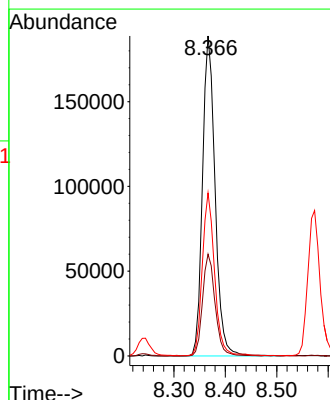
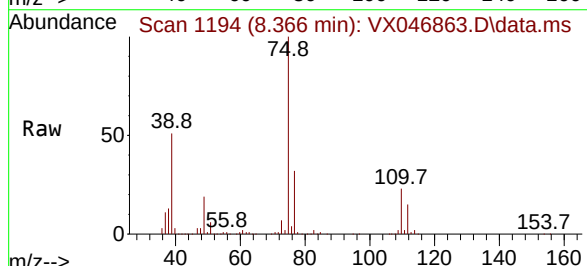
Tgt Ion: 75 Resp: 320678

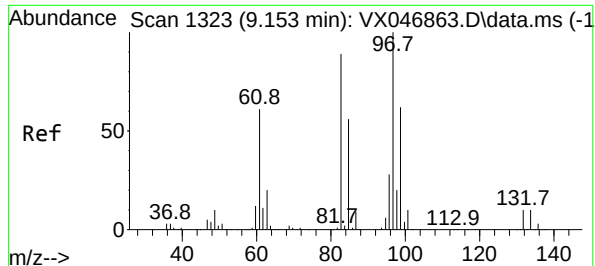
Ion Ratio Lower Upper

75 100

77 31.8 25.4 38.2

39 50.9 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 49.704 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 19107

Ion Ratio Lower Upper

97 100

83 88.6 70.9 106.3

85 55.8 44.6 67.0

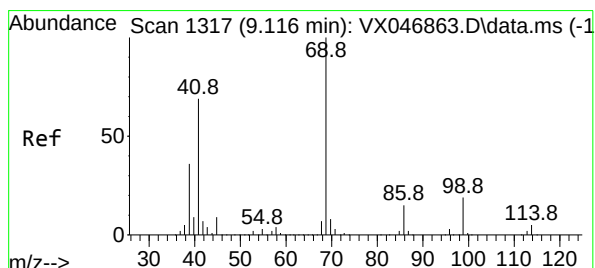
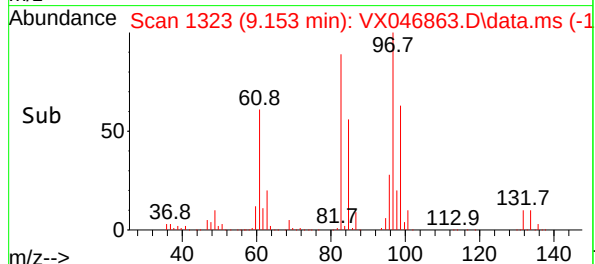
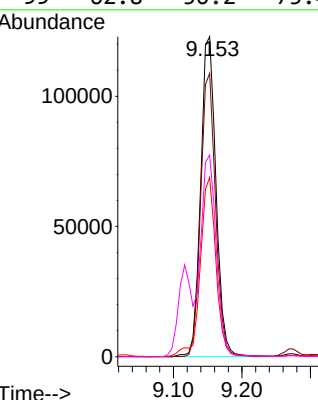
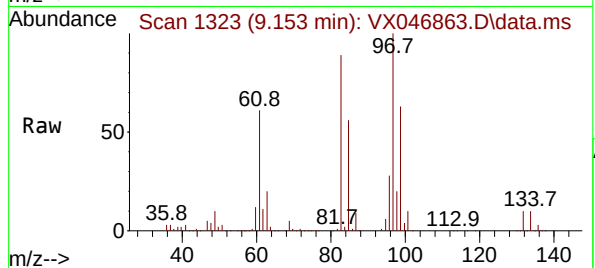
99 62.8 50.2 75.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#56

Ethyl methacrylate

Concen: 51.905 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

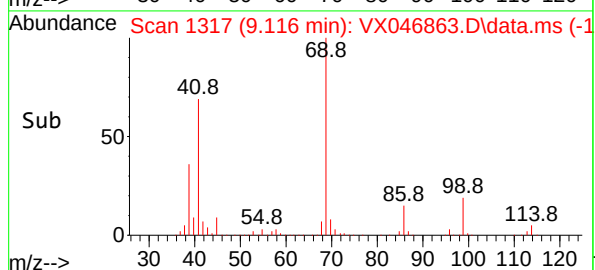
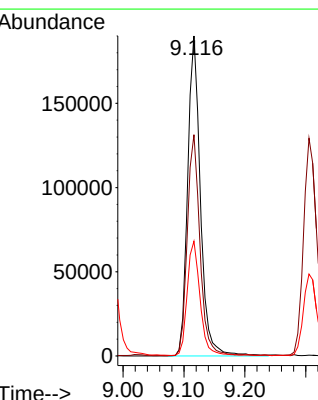
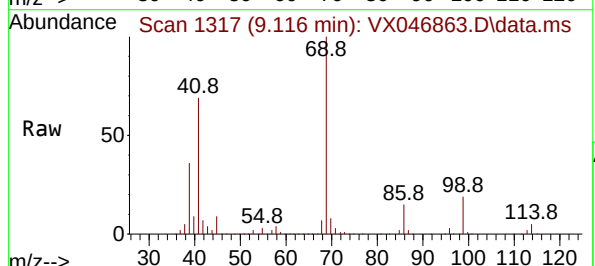
Tgt Ion: 69 Resp: 276170

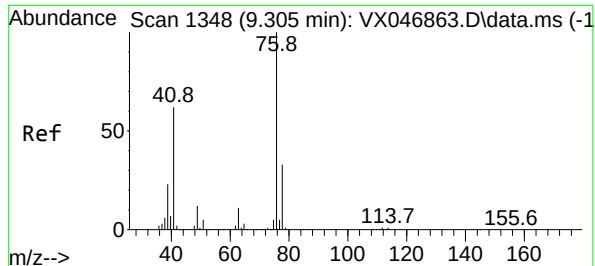
Ion Ratio Lower Upper

69 100

41 68.3 54.6 82.0

39 35.9 28.7 43.1





#57

1,3-Dichloropropane

Concen: 49.150 ug/l

RT: 9.305 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 32534

Ion Ratio Lower Upper

76 100

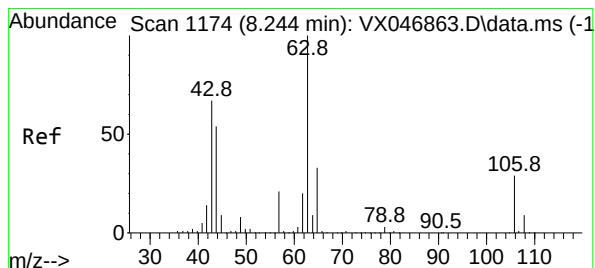
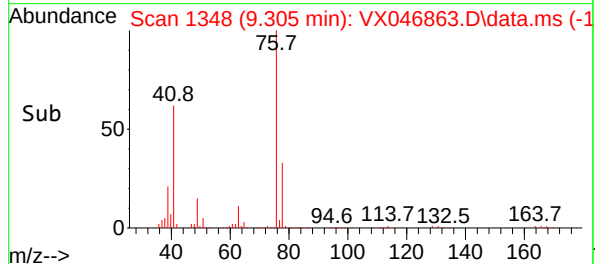
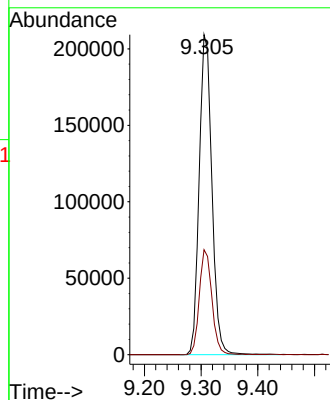
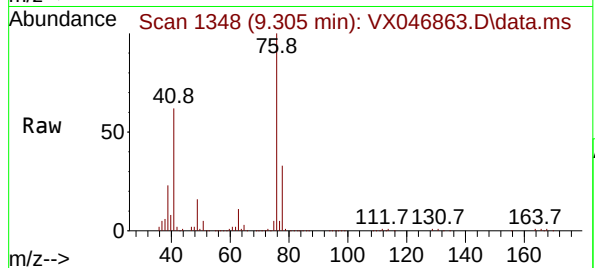
78 32.4 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#58

2-Chloroethyl Vinyl ether

Concen: 267.636 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046863.D

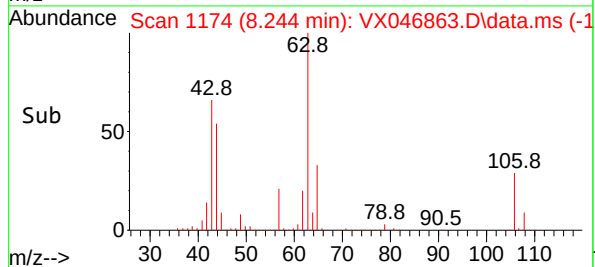
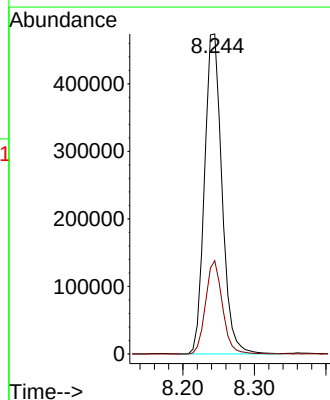
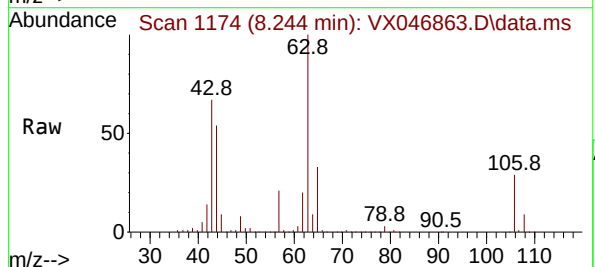
Acq: 02 Jul 2025 13:39

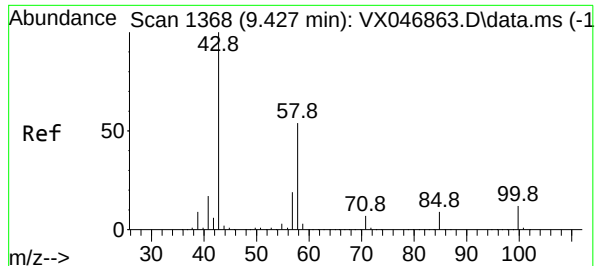
Tgt Ion: 63 Resp: 802354

Ion Ratio Lower Upper

63 100

106 28.2 22.6 33.8





#59

2-Hexanone

Concen: 264.164 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 74285

Ion Ratio Lower Upper

43 100

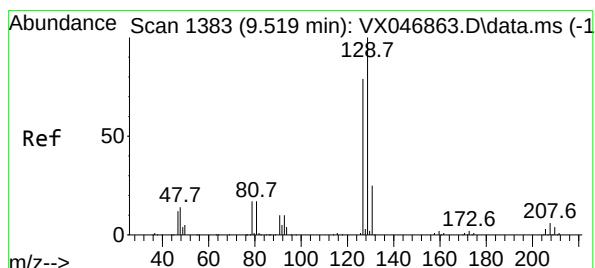
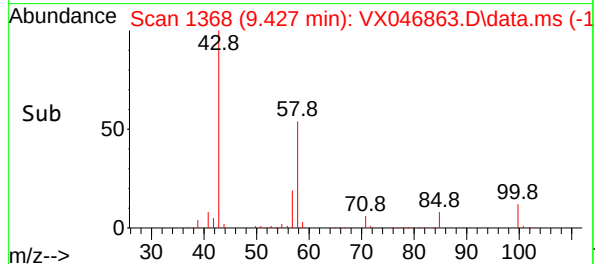
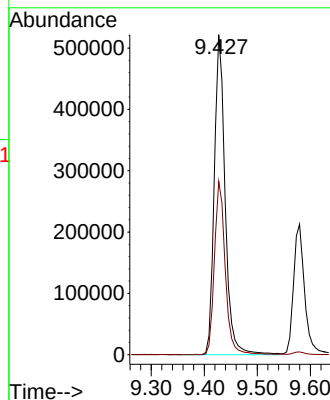
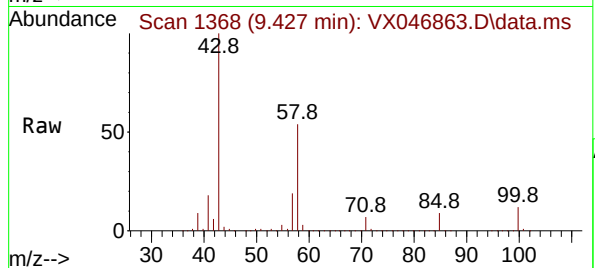
58 54.2 27.1 81.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#60

Dibromochloromethane

Concen: 49.218 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX046863.D

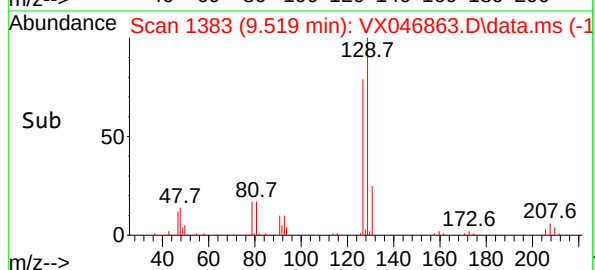
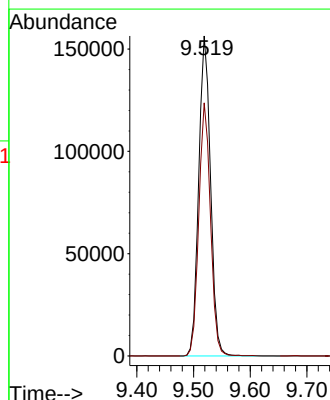
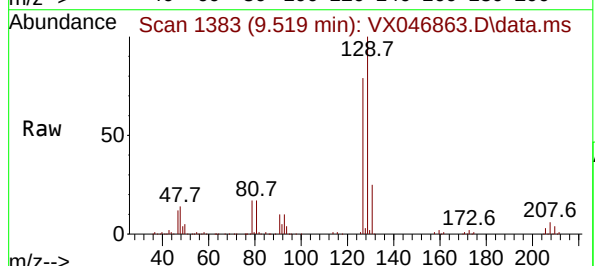
Acq: 02 Jul 2025 13:39

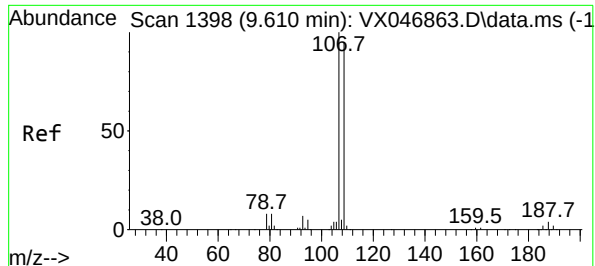
Tgt Ion:129 Resp: 226427

Ion Ratio Lower Upper

129 100

127 78.3 39.1 117.5





#61

1,2-Dibromoethane

Concen: 49.814 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:107 Resp: 192320

Ion Ratio Lower Upper

107 100

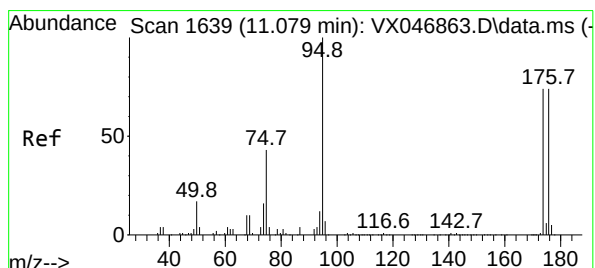
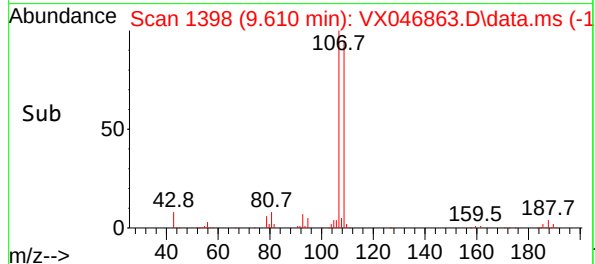
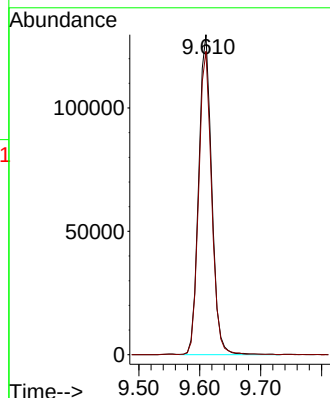
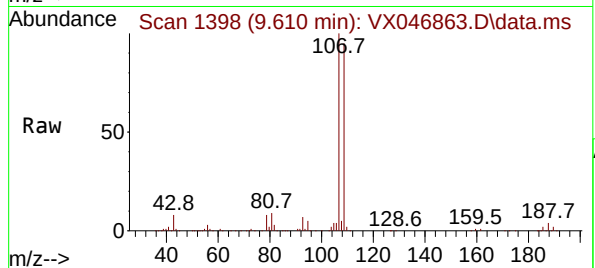
109 94.3 75.4 113.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#62

4-Bromofluorobenzene

Concen: 49.952 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

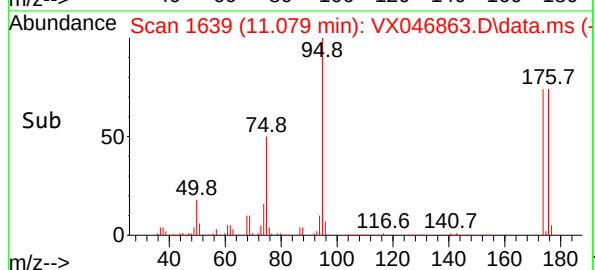
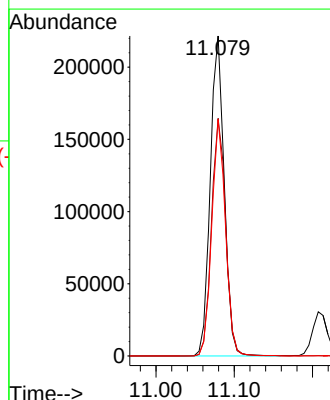
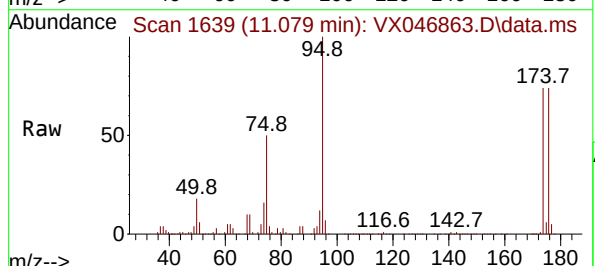
Tgt Ion: 95 Resp: 273366

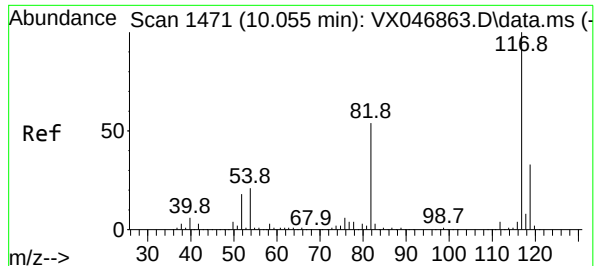
Ion Ratio Lower Upper

95 100

174 76.0 0.0 152.0

176 72.6 0.0 145.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

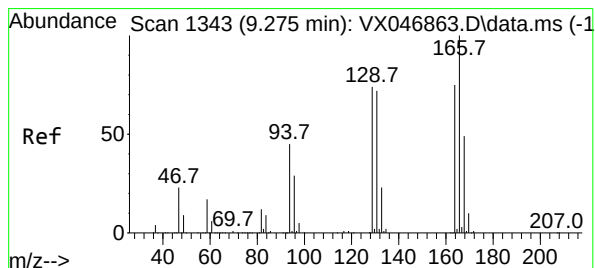
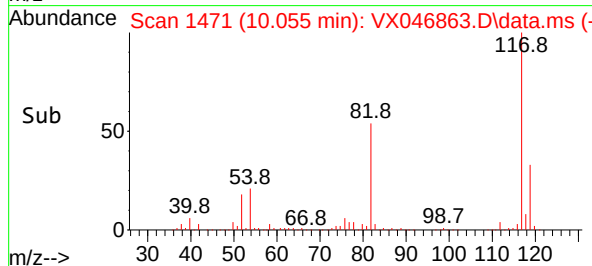
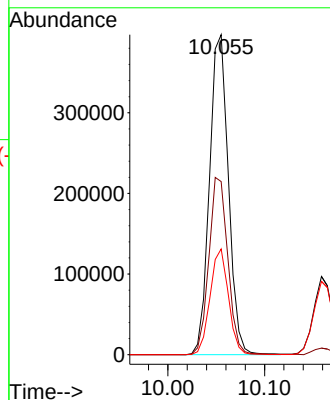
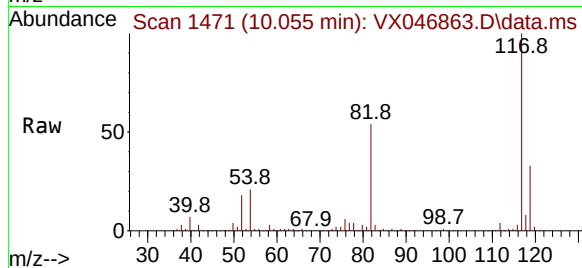
Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.1	43.3	64.9
119	33.0	26.4	39.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#64

Tetrachloroethene

Concen: 47.341 ug/l

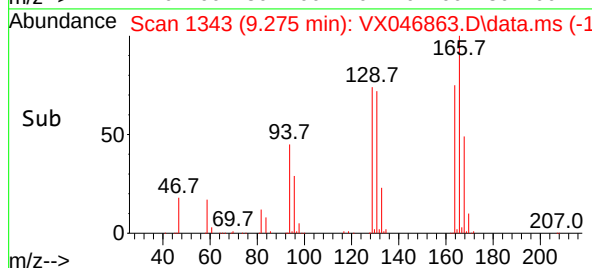
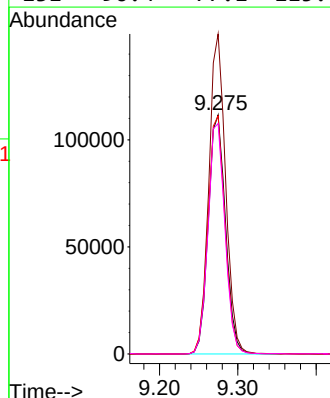
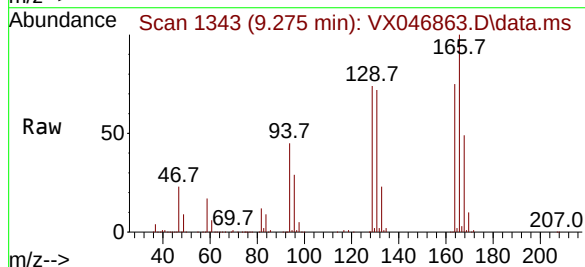
RT: 9.275 min Scan# 1343

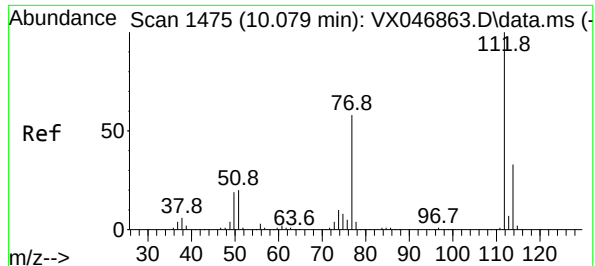
Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Tgt Ion	Ratio	Lower	Upper
164	100		
166	133.8	107.0	160.6
129	99.6	79.7	119.5
131	96.4	77.1	115.7





#65

Chlorobenzene

Concen: 48.538 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:112 Resp: 56658

Ion Ratio Lower Upper

112 100

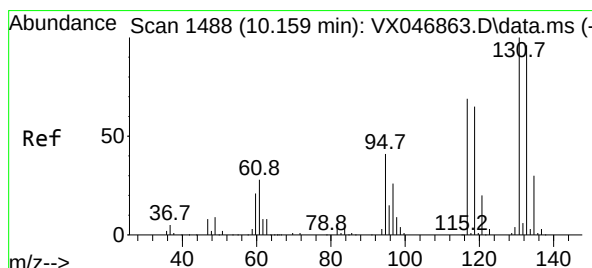
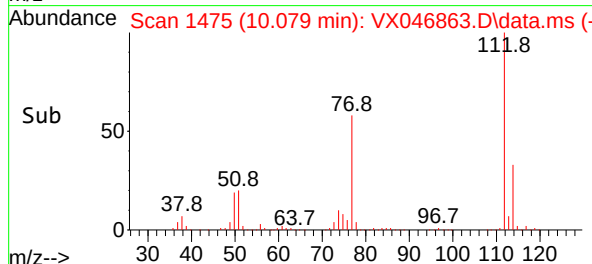
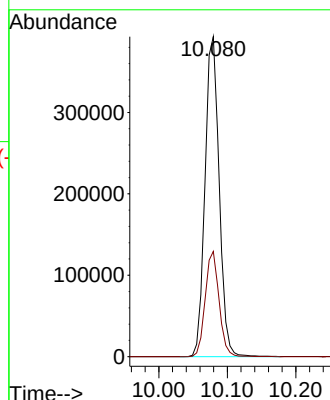
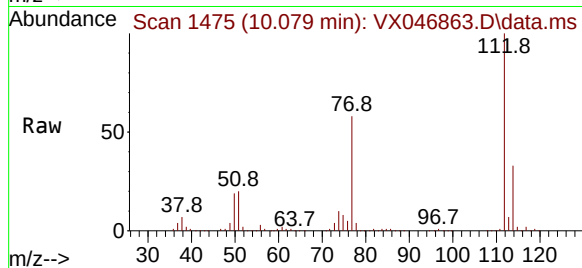
114 32.9 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 49.347 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

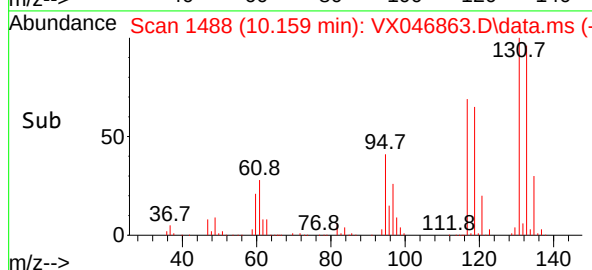
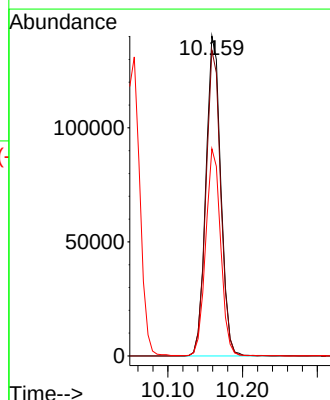
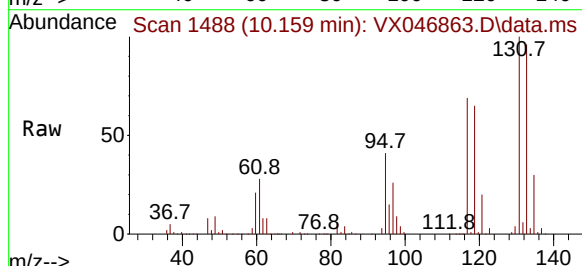
Tgt Ion:131 Resp: 193638

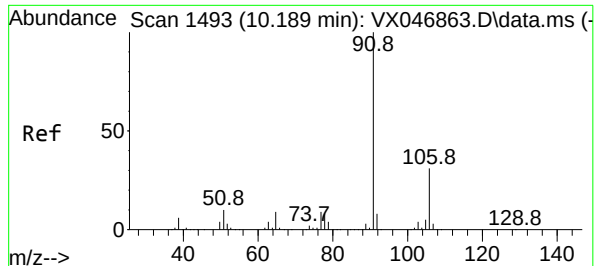
Ion Ratio Lower Upper

131 100

133 95.3 47.6 142.9

119 64.8 32.4 97.2





#67

Ethyl Benzene

Concen: 49.415 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 987800

Ion Ratio Lower Upper

91 100

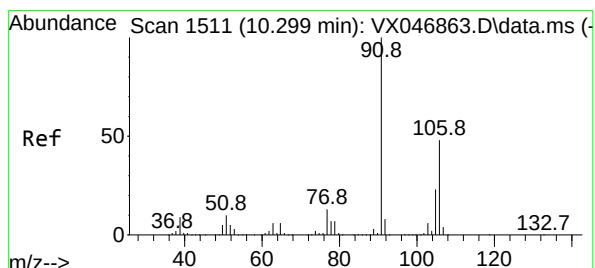
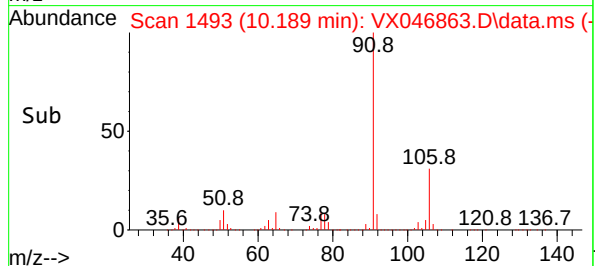
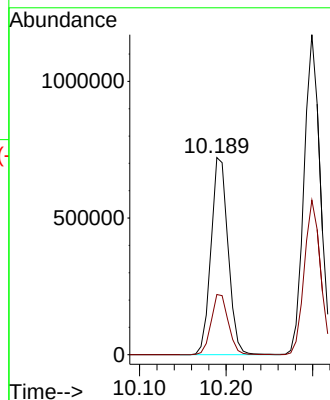
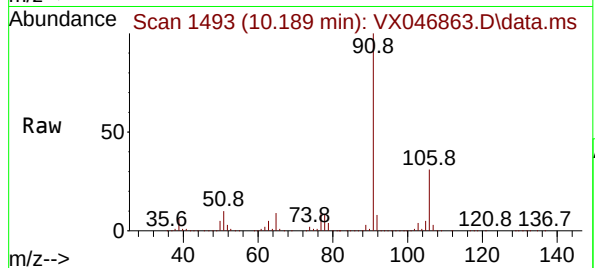
106 30.5 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#68

m/p-Xylenes

Concen: 98.674 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX046863.D

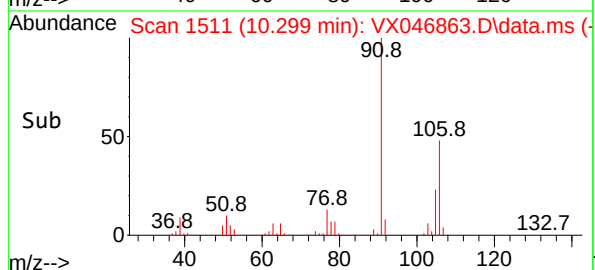
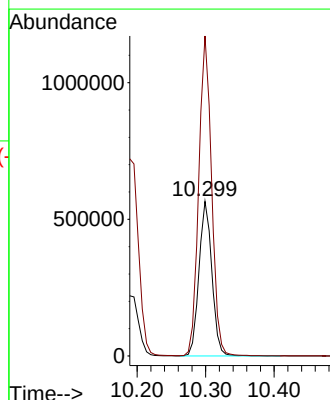
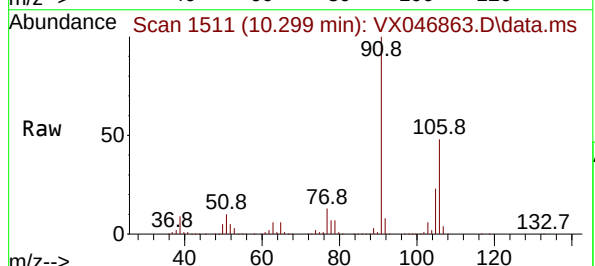
Acq: 02 Jul 2025 13:39

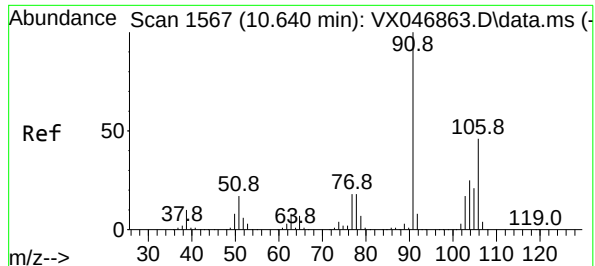
Tgt Ion:106 Resp: 743275

Ion Ratio Lower Upper

106 100

91 205.7 164.6 246.8





#69

o-Xylene

Concen: 49.311 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:106 Resp: 358798

Ion Ratio Lower Upper

106 100

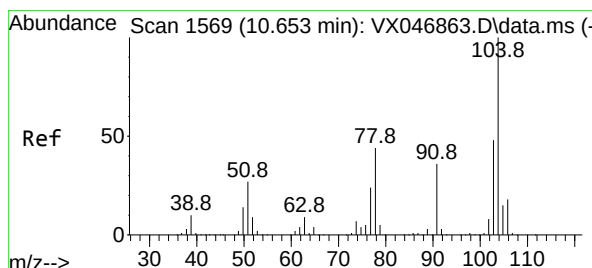
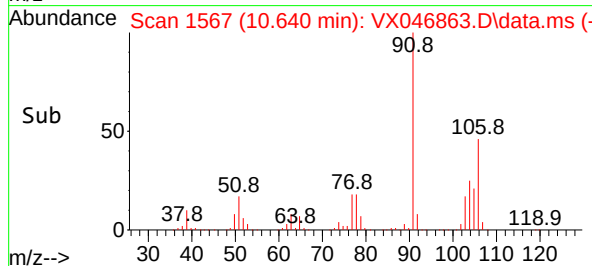
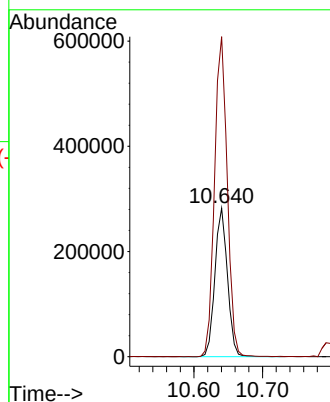
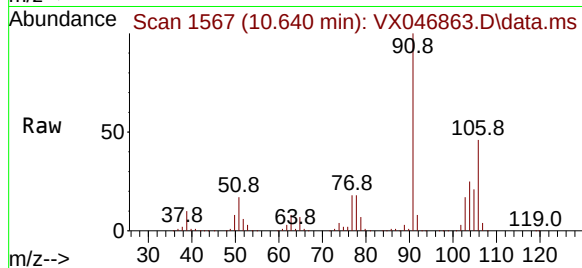
91 219.0 109.5 328.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#70

Styrene

Concen: 50.976 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

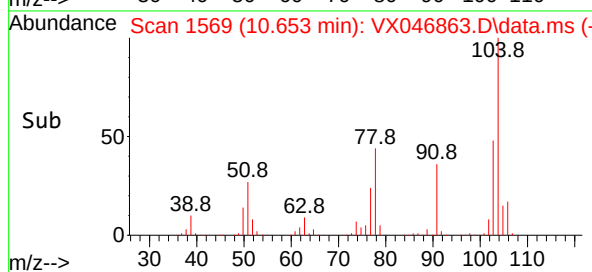
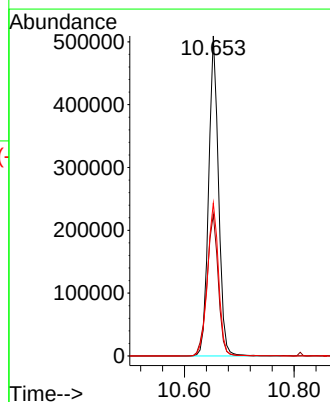
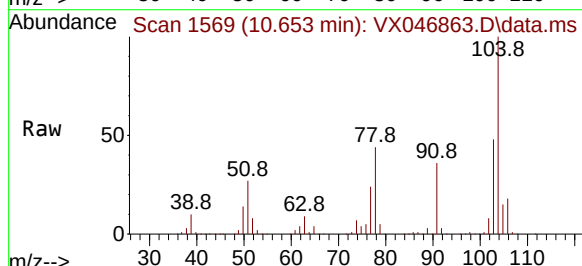
Tgt Ion:104 Resp: 634597

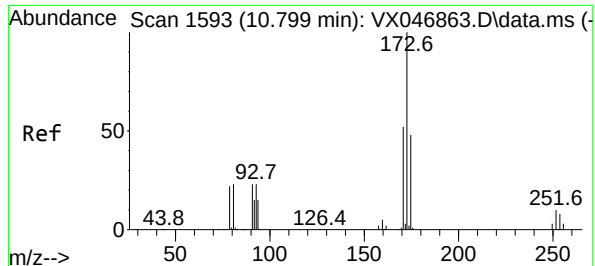
Ion Ratio Lower Upper

104 100

78 50.4 40.3 60.5

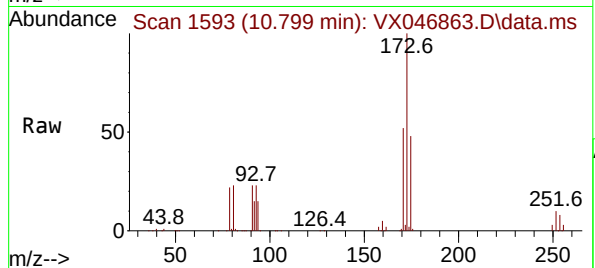
103 53.5 42.8 64.2





#71
Bromoform
Concen: 49.794 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

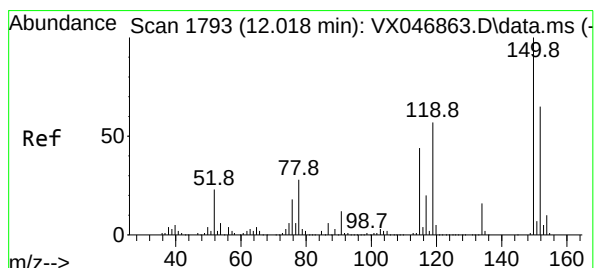
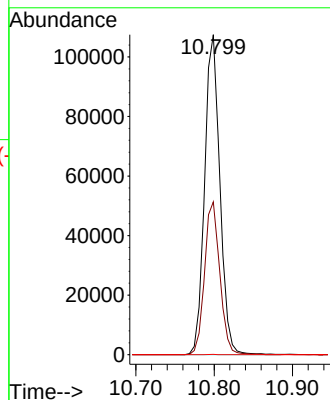
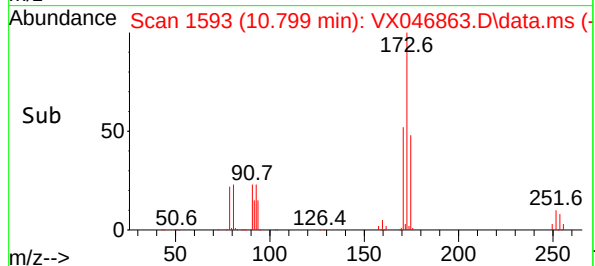
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



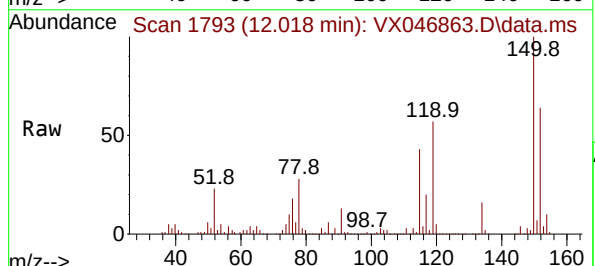
Tgt Ion:173 Resp: 14528
Ion Ratio Lower Upper
173 100
175 47.7 23.8 71.5
254 0.1 0.1 0.1

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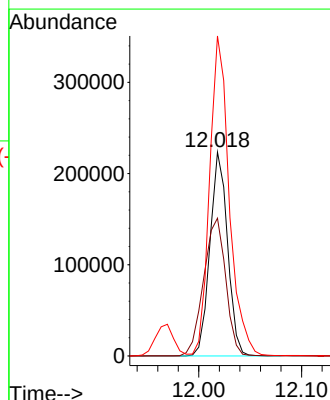
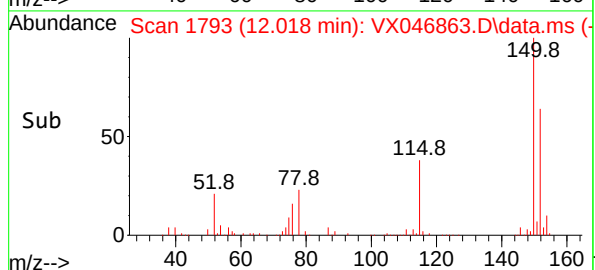
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

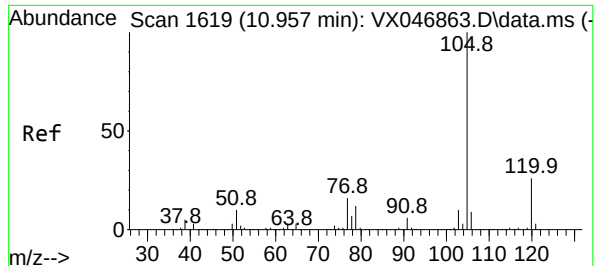


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39



Tgt Ion:152 Resp: 266829
Ion Ratio Lower Upper
152 100
115 84.7 42.4 127.1
150 174.6 0.0 349.2





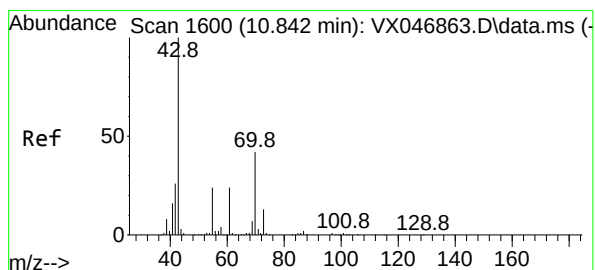
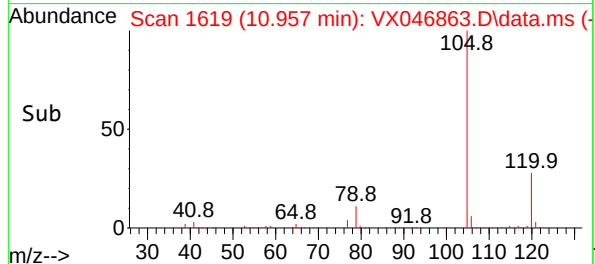
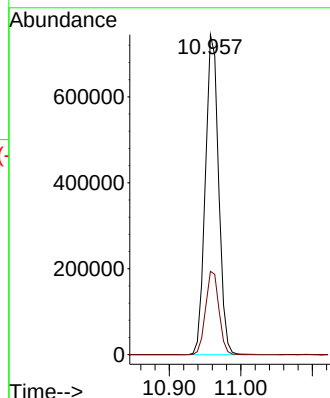
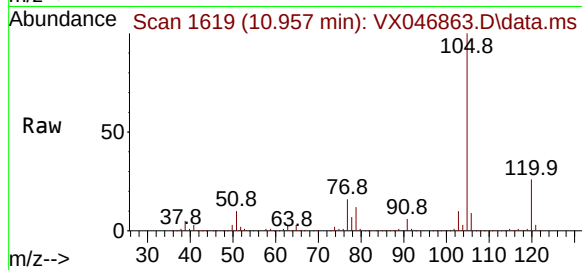
#73
Isopropylbenzene
Concen: 51.232 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 960979
Ion Ratio Lower Upper
105 100
120 26.3 13.2 39.5

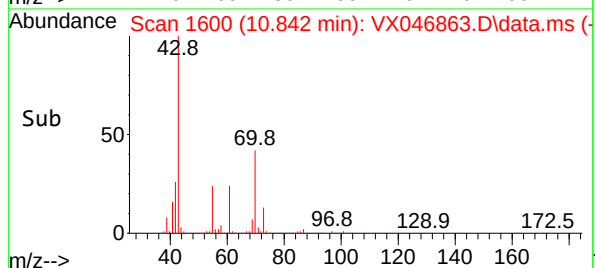
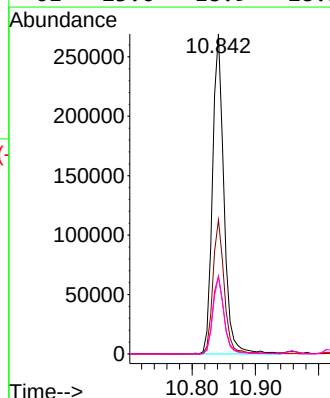
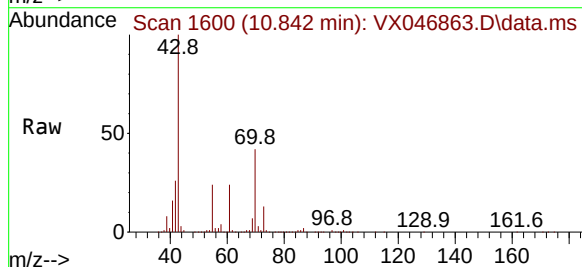
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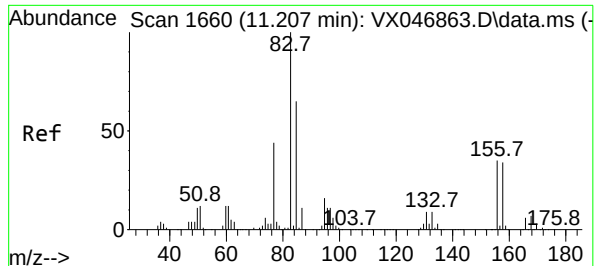
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#74
N-ethyl acetate
Concen: 53.169 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Tgt Ion: 43 Resp: 338897
Ion Ratio Lower Upper
43 100
70 41.8 33.4 50.2
55 24.5 19.6 29.4
61 23.6 18.9 28.3





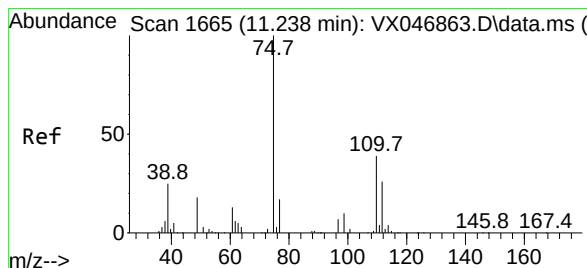
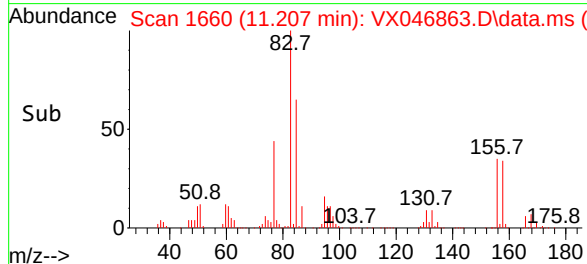
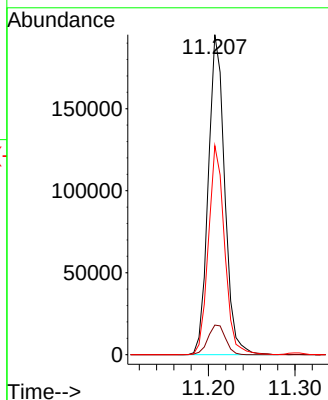
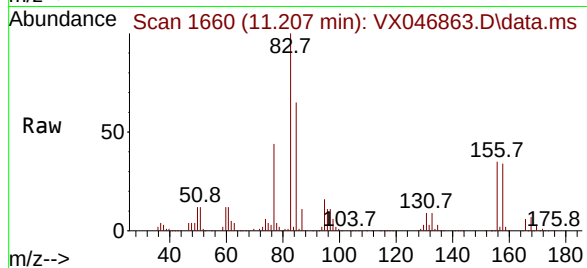
#75
1,1,2,2-Tetrachloroethane
Concen: 49.814 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 256928
Ion Ratio Lower Upper
83 100
131 9.9 5.0 14.9
85 64.3 32.1 96.5

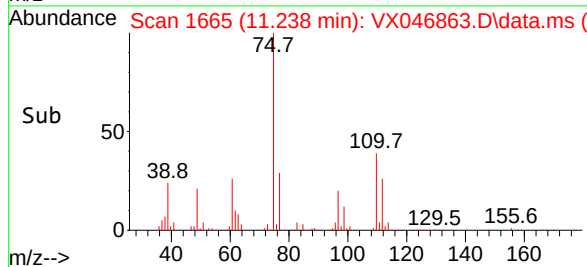
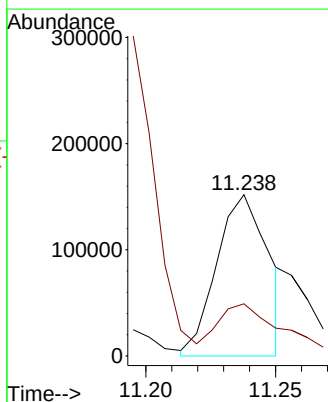
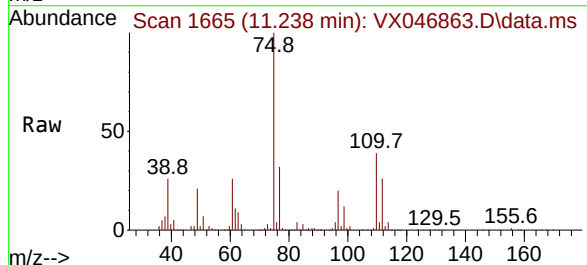
Manual Integrations
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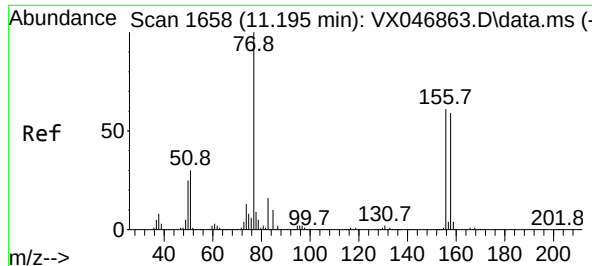
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#76
1,2,3-Trichloropropane
Concen: 50.937 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

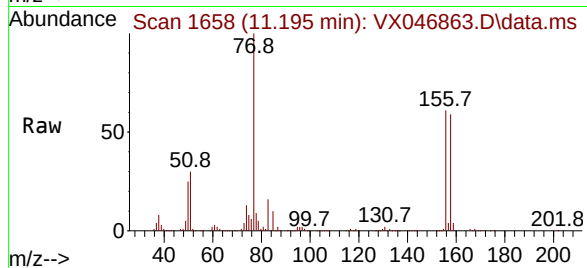
Tgt Ion: 75 Resp: 210006
Ion Ratio Lower Upper
75 100
77 41.2 20.6 61.8





#77
Bromobenzene
Concen: 50.052 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

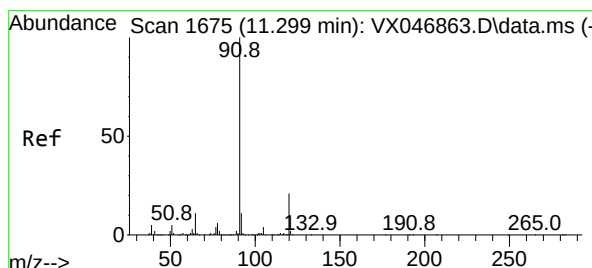
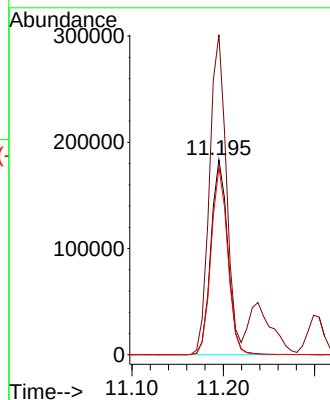
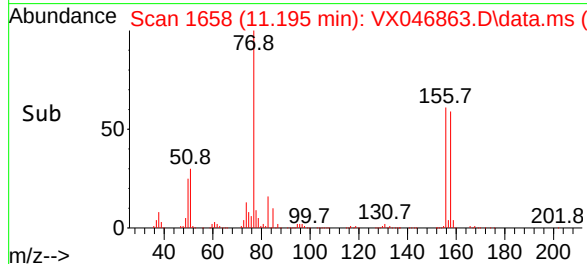
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:156 Resp: 23385
Ion Ratio Lower Upper
156 100
77 164.7 82.3 247.0
158 95.1 47.5 142.6

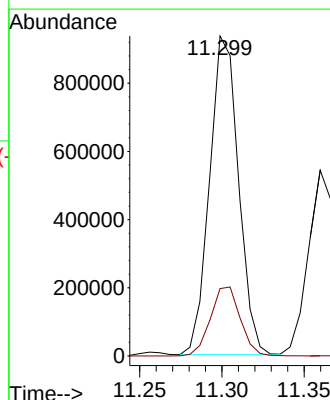
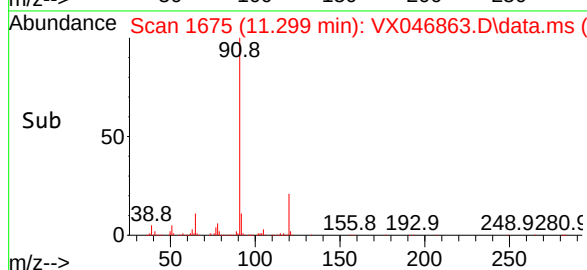
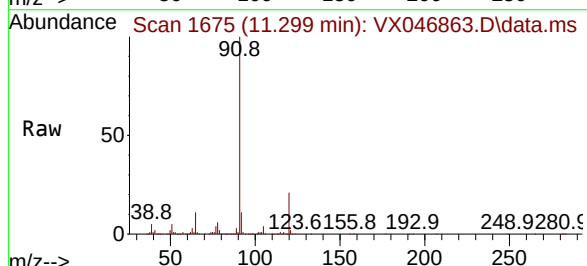
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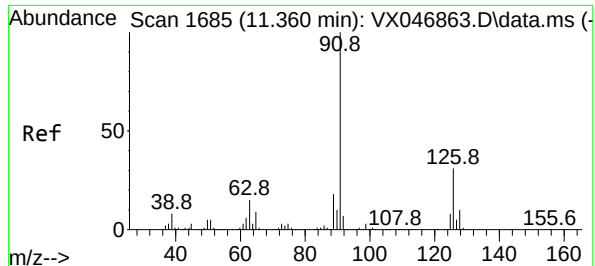
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#78
n-propylbenzene
Concen: 50.647 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Tgt Ion: 91 Resp: 1145518
Ion Ratio Lower Upper
91 100
120 22.3 11.2 33.5





#79

2-Chlorotoluene

Concen: 49.595 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 66233

Ion Ratio Lower Upper

91 100

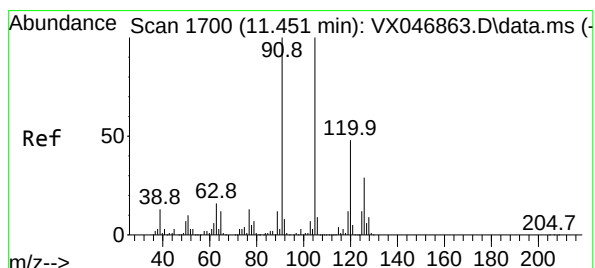
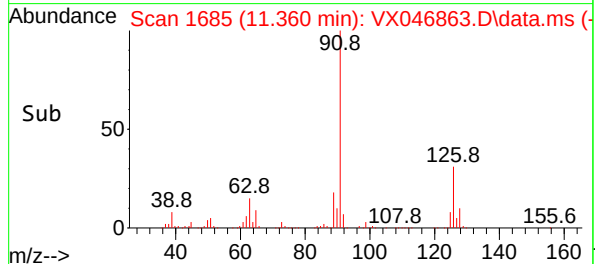
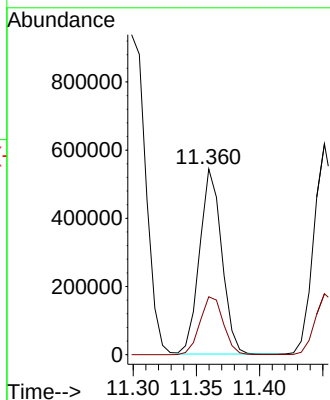
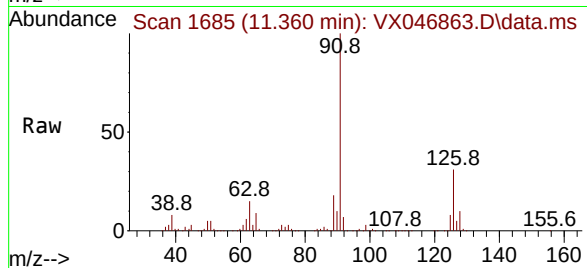
126 33.2 16.6 49.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#80

1,3,5-Trimethylbenzene

Concen: 51.198 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046863.D

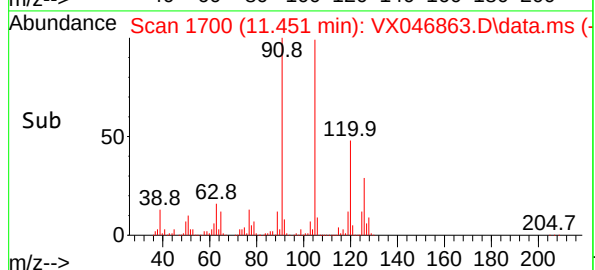
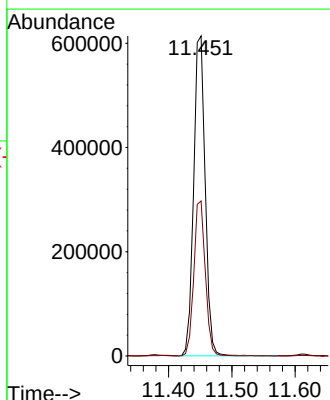
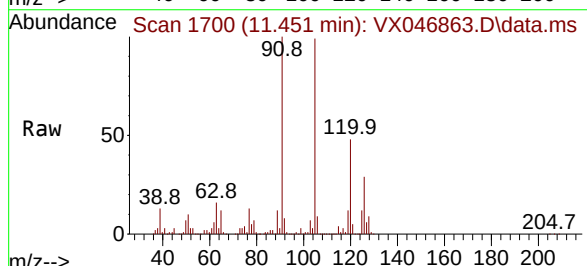
Acq: 02 Jul 2025 13:39

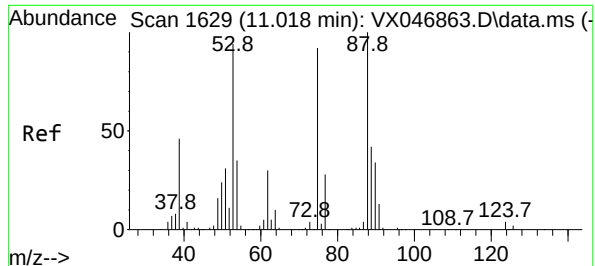
Tgt Ion:105 Resp: 780315

Ion Ratio Lower Upper

105 100

120 48.3 24.1 72.4





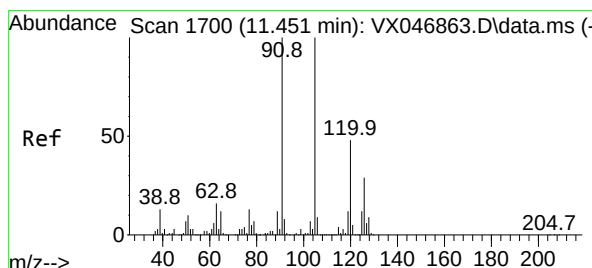
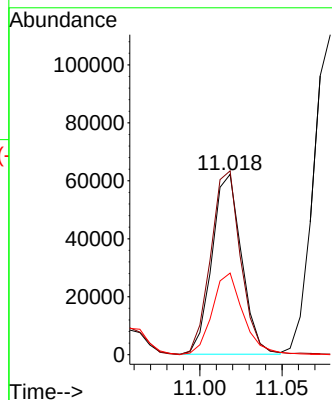
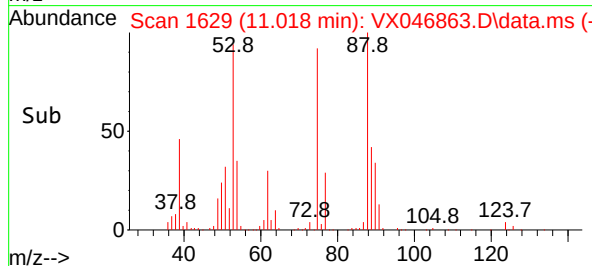
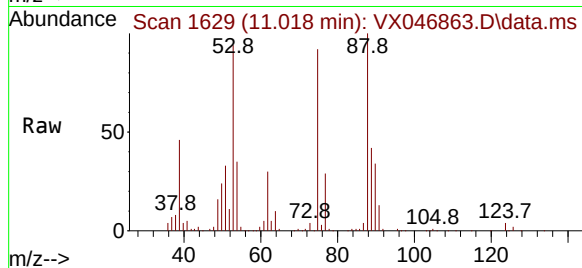
#81
trans-1,4-Dichloro-2-butene
Concen: 50.659 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 7783
Ion Ratio Lower Upper
75 100
53 104.6 83.7 125.5
89 47.7 38.2 57.2

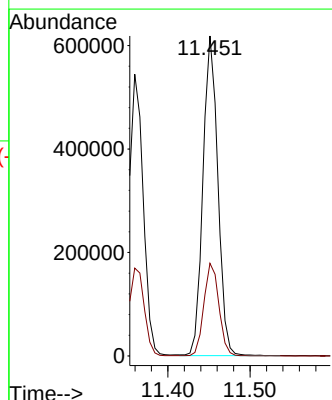
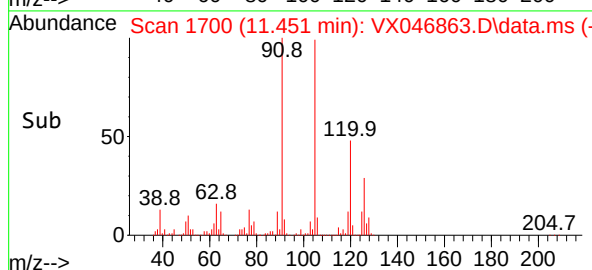
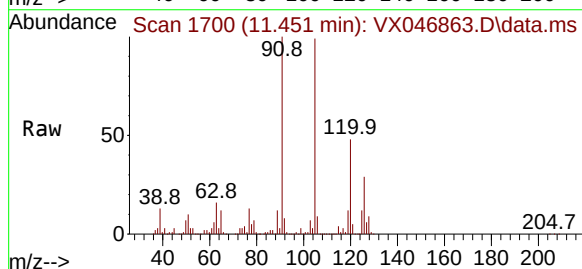
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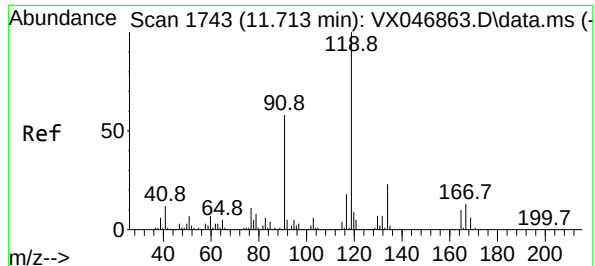
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#82
4-Chlorotoluene
Concen: 50.461 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Tgt Ion: 91 Resp: 777681
Ion Ratio Lower Upper
91 100
126 29.3 14.6 44.0





#83

tert-Butylbenzene

Concen: 51.197 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:119 Resp: 80592

Ion Ratio Lower Upper

119 100

91 57.5 28.7 86.3

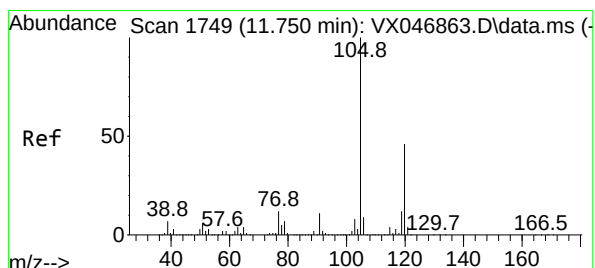
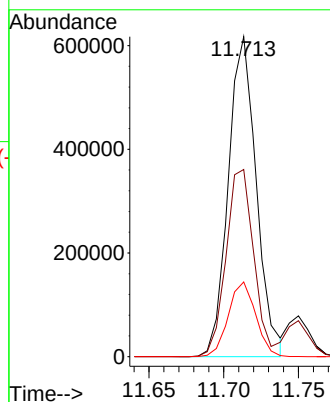
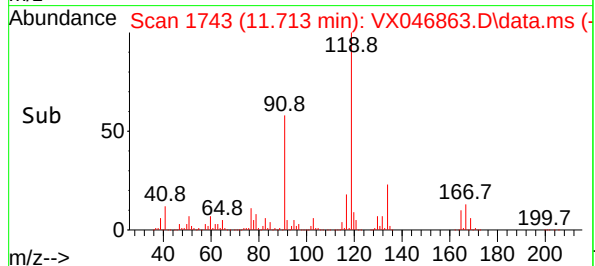
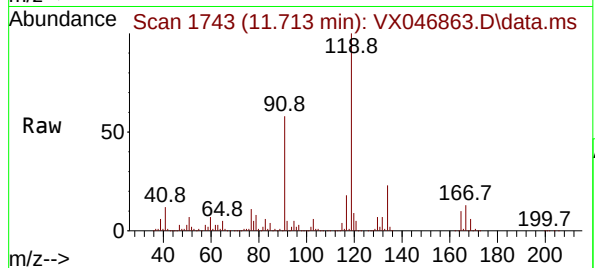
134 22.8 11.4 34.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#84

1,2,4-Trimethylbenzene

Concen: 51.082 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX046863.D

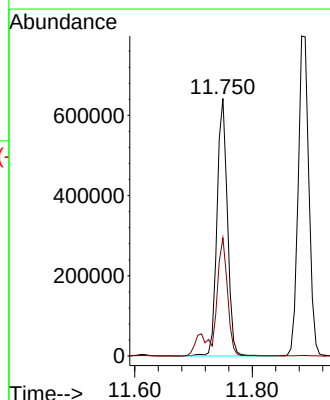
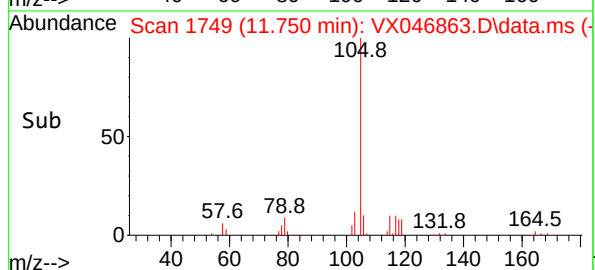
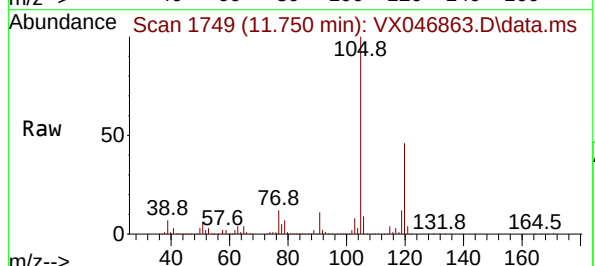
Acq: 02 Jul 2025 13:39

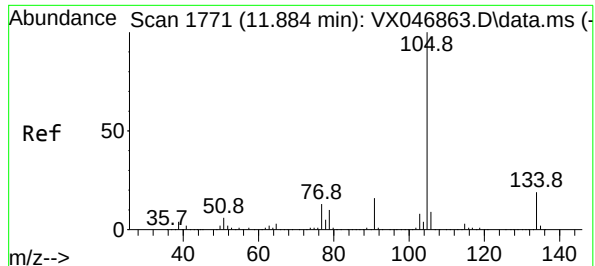
Tgt Ion:105 Resp: 786934

Ion Ratio Lower Upper

105 100

120 46.5 23.3 69.8





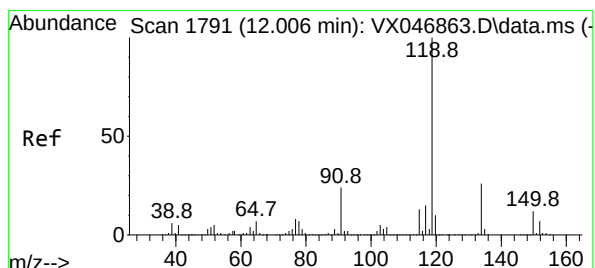
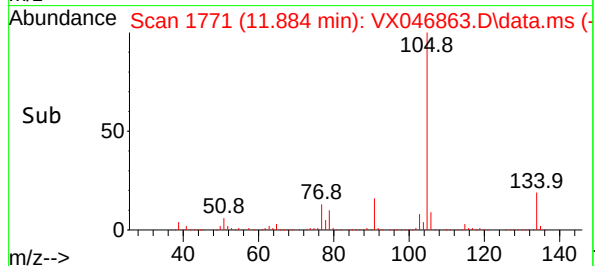
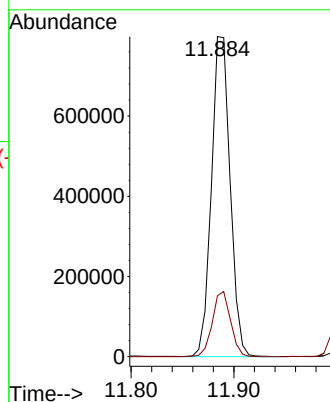
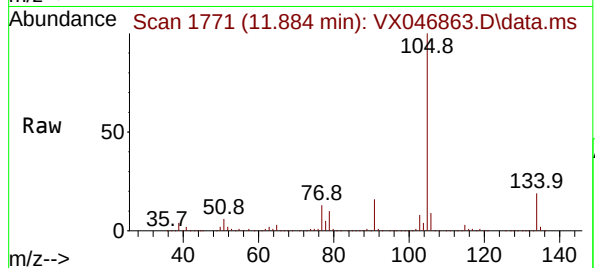
#85
sec-Butylbenzene
Concen: 50.840 ug/l
RT: 11.884 min Scan# 1771
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 100902
Ion Ratio Lower Upper
105 100
134 19.8 9.9 29.7

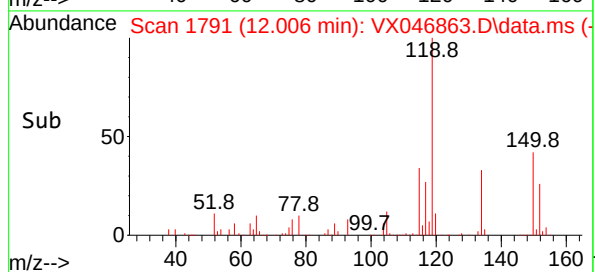
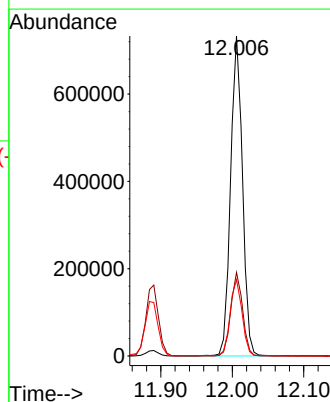
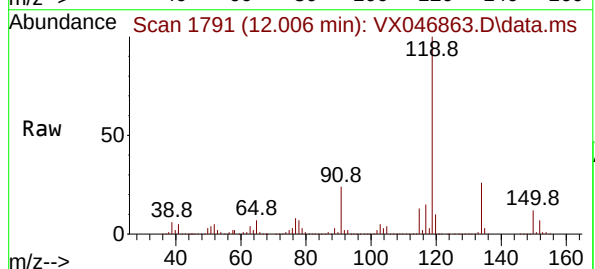
Manual Integrations
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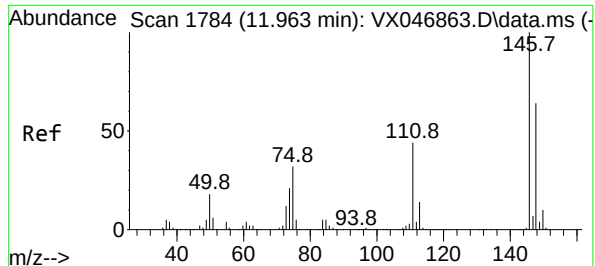
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#86
p-Isopropyltoluene
Concen: 50.770 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Tgt Ion:119 Resp: 843813
Ion Ratio Lower Upper
119 100
134 26.0 13.0 39.0
91 24.1 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 49.687 ug/l

RT: 11.963 min Scan# 1784

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 434168

Ion Ratio Lower Upper

146 100

111 41.1 20.5 61.6

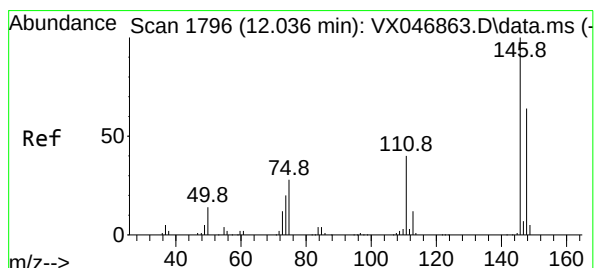
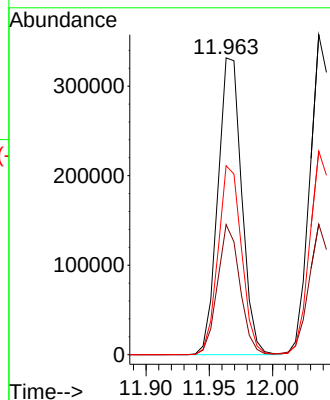
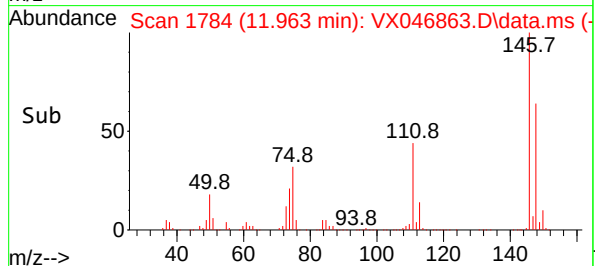
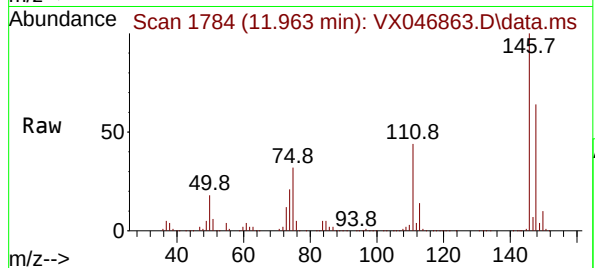
148 62.8 31.4 94.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#88

1,4-Dichlorobenzene

Concen: 47.882 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

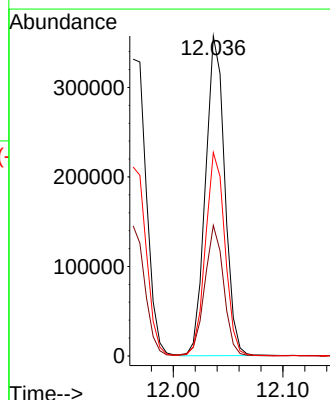
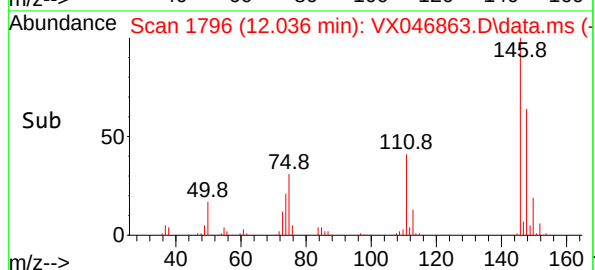
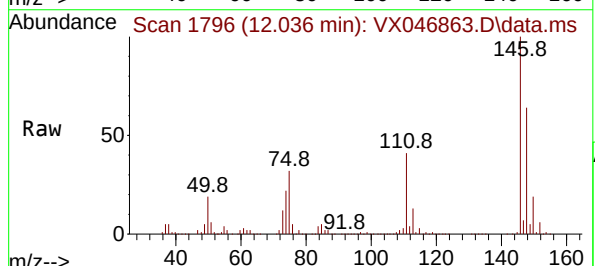
Tgt Ion:146 Resp: 435439

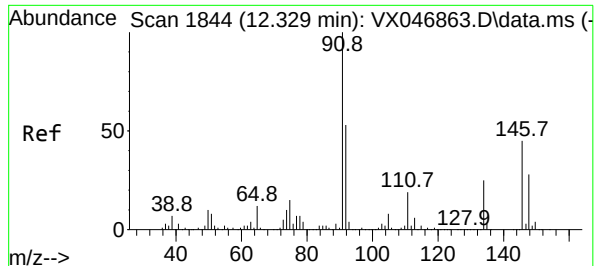
Ion Ratio Lower Upper

146 100

111 40.3 20.2 60.5

148 64.7 32.4 97.0





#89

n-Butylbenzene

Concen: 51.042 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

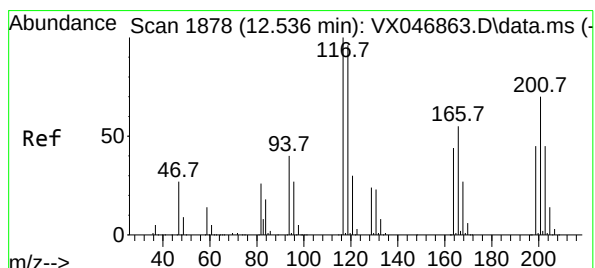
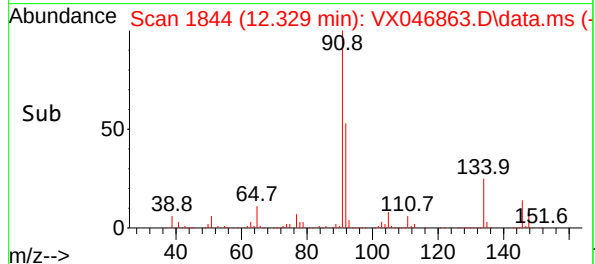
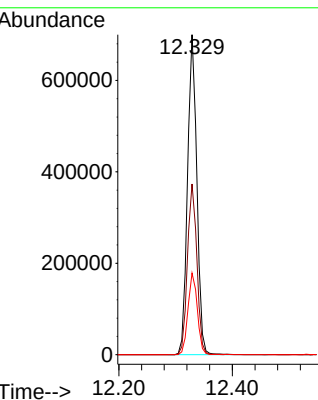
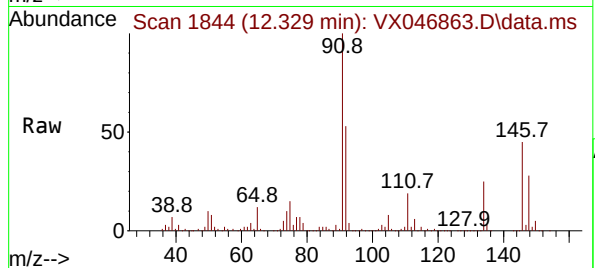
Tgt Ion:	91	Resp:	797119
Ion	Ratio	Lower	Upper
91	100		
92	54.0	27.0	81.0
134	25.6	12.8	38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#90

Hexachloroethane

Concen: 50.152 ug/l

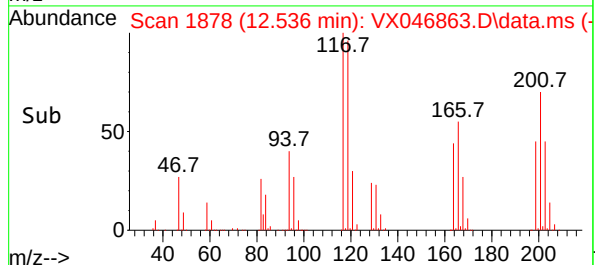
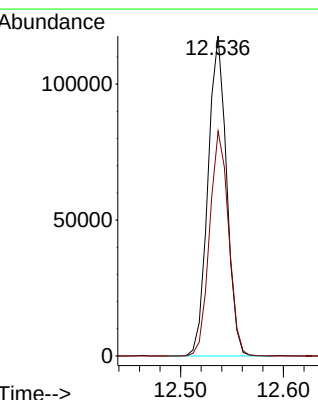
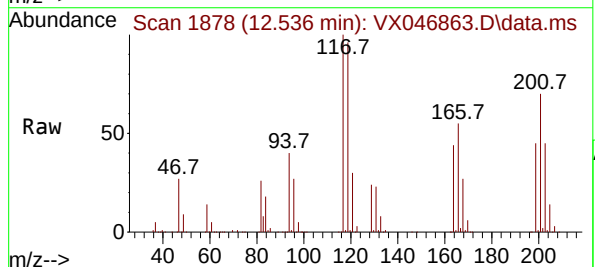
RT: 12.536 min Scan# 1878

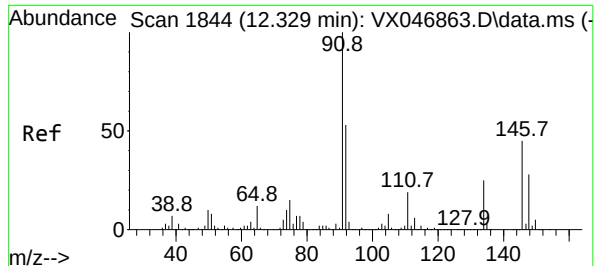
Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

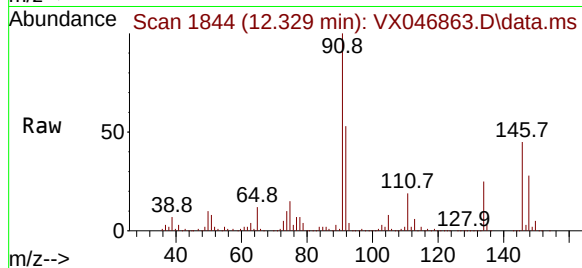
Tgt Ion:	117	Resp:	147768
Ion	Ratio	Lower	Upper
117	100		
201	71.6	35.8	107.4





#91
1,2-Dichlorobenzene
Concen: 49.398 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

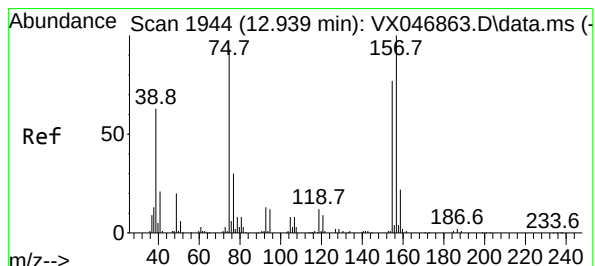
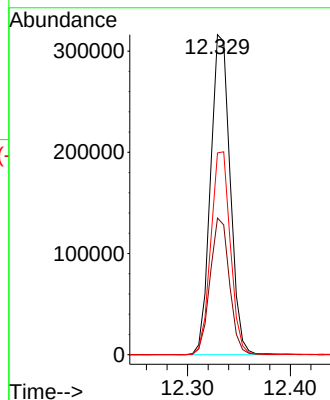
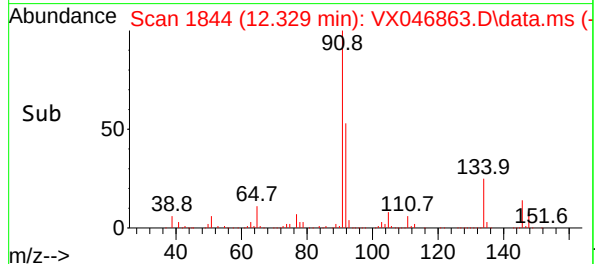
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:146 Resp: 41828
Ion Ratio Lower Upper
146 100
111 42.1 21.1 63.1
148 63.3 31.6 95.0

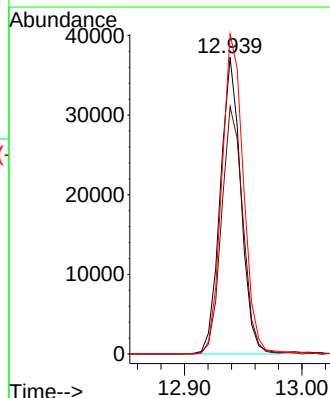
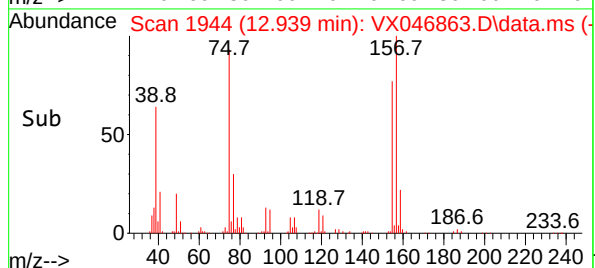
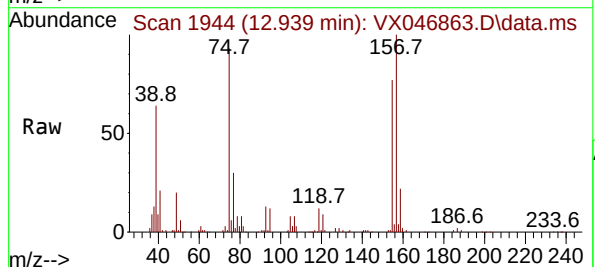
Manual Integrations
APPROVED

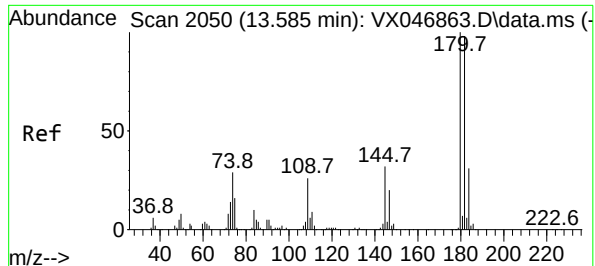
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 50.530 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Tgt Ion: 75 Resp: 45584
Ion Ratio Lower Upper
75 100
155 86.3 43.1 129.4
157 113.0 56.5 169.5





#93

1,2,4-Trichlorobenzene

Concen: 50.438 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:180 Resp: 29014

Ion Ratio Lower Upper

180 100

182 94.6 47.3 141.9

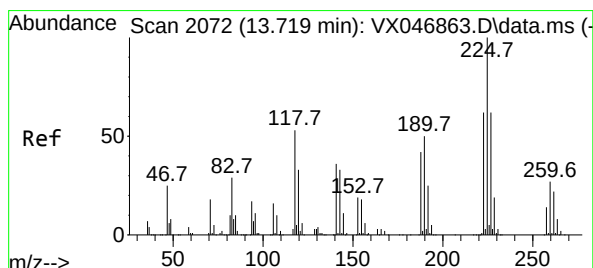
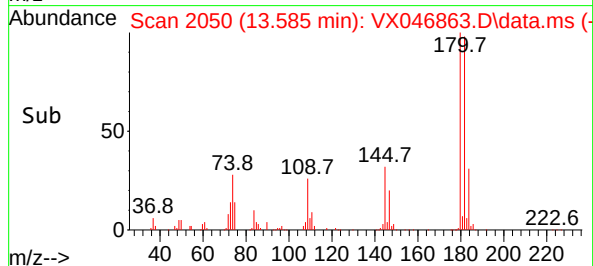
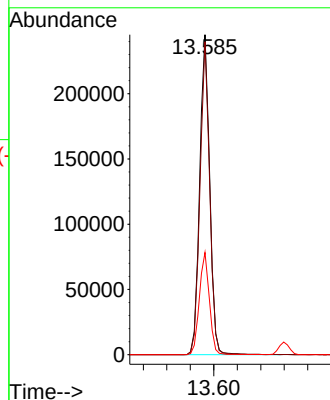
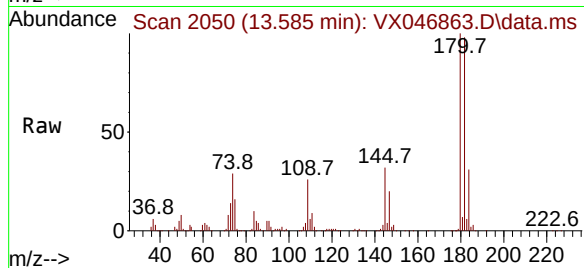
145 32.1 16.1 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#94

Hexachlorobutadiene

Concen: 50.352 ug/l

RT: 13.719 min Scan# 2072

Delta R.T. 0.000 min

Lab File: VX046863.D

Acq: 02 Jul 2025 13:39

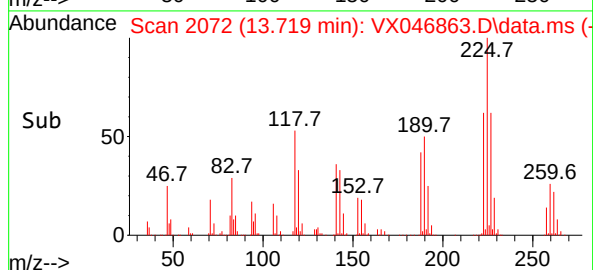
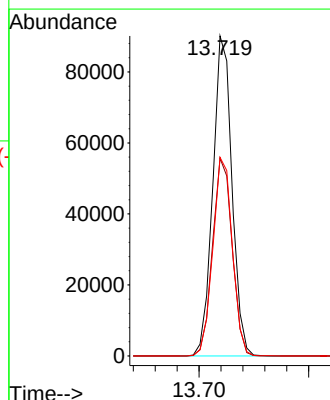
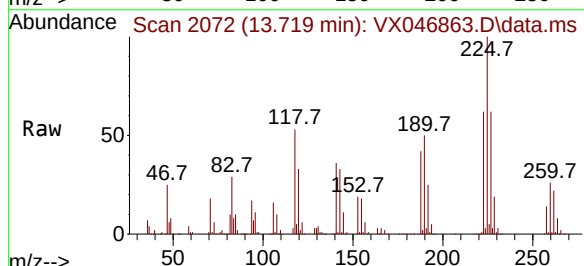
Tgt Ion:225 Resp: 109236

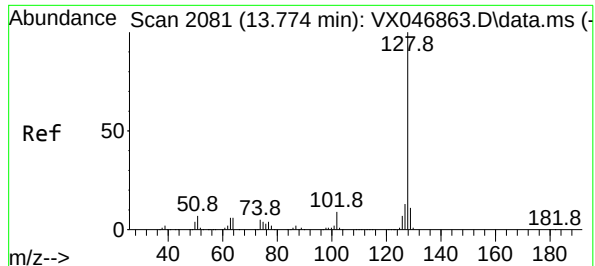
Ion Ratio Lower Upper

225 100

223 63.1 31.6 94.7

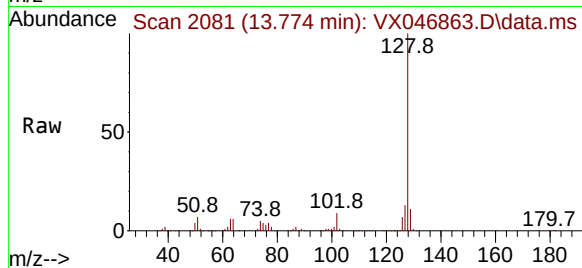
227 63.1 31.6 94.7





#95
Naphthalene
Concen: 53.405 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

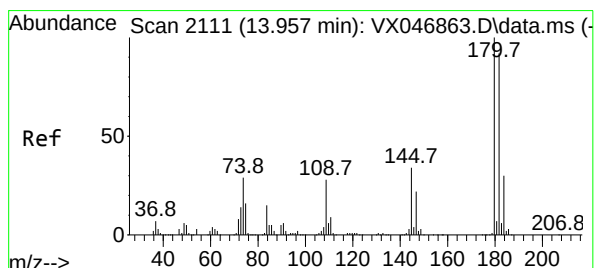
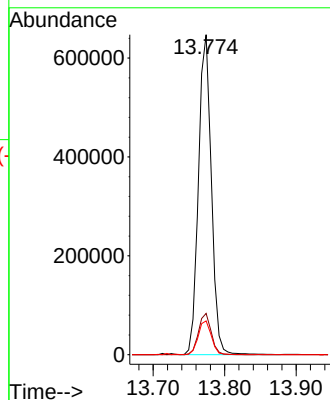
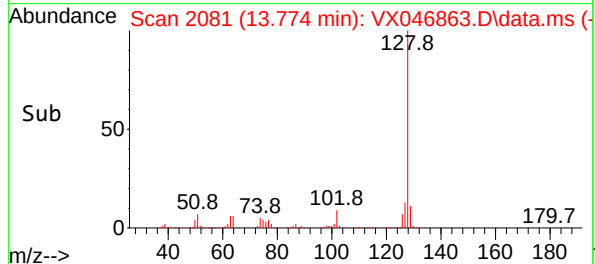
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:128 Resp: 809540
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.4
129 10.8 8.6 13.0

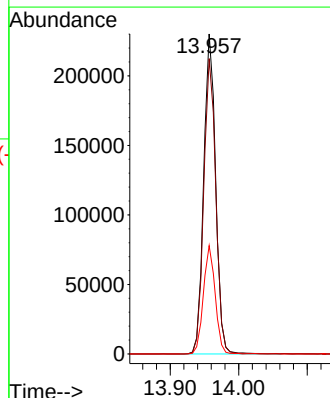
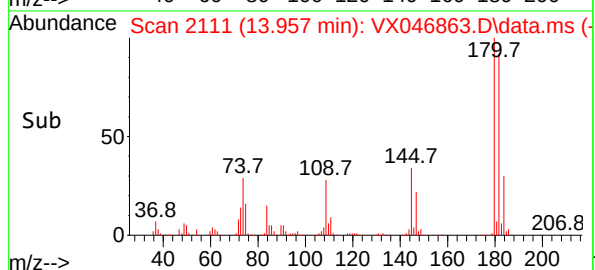
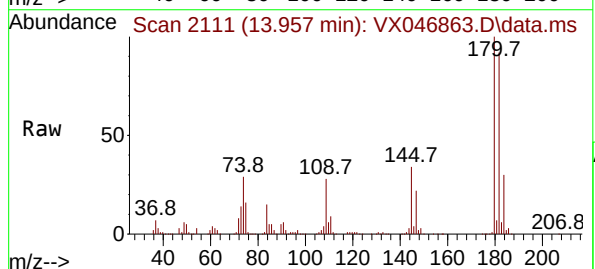
Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.278 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046863.D
Acq: 02 Jul 2025 13:39

Tgt Ion:180 Resp: 278713
Ion Ratio Lower Upper
180 100
182 93.4 46.7 140.1
145 33.5 16.8 50.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046864.D
 Acq On : 02 Jul 2025 14:10
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Quant Time: Jul 03 05:33:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	360099	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	591959	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	521464	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	253960	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	461552	97.021	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 194.040%#			
35) Dibromofluoromethane	5.385	113	393465	97.920	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 195.840%#			
50) Toluene-d8	8.647	98	1373545	96.884	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 193.760%#			
62) 4-Bromofluorobenzene	11.079	95	513224	95.251	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 190.500%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.179	85	361969	105.107	ug/l	99
3) Chloromethane	1.307	50	391364	104.014	ug/l	98
4) Vinyl Chloride	1.386	62	424193	103.527	ug/l	100
5) Bromomethane	1.618	94	265849	100.979	ug/l	100
6) Chloroethane	1.697	64	260651	96.337	ug/l	99
7) Trichlorofluoromethane	1.904	101	643202	101.523	ug/l	98
8) Diethyl Ether	2.142	74	228526	101.358	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.343	101	412204	102.105	ug/l	99
10) Methyl Iodide	2.465	142	490208	111.457	ug/l	99
11) Tert butyl alcohol	2.953	59	156192	500.607	ug/l	99
12) 1,1-Dichloroethene	2.331	96	393053	100.660	ug/l	97
13) Acrolein	2.245	56	173378	500.012	ug/l	100
14) Allyl chloride	2.672	41	711428	102.334	ug/l	99
15) Acrylonitrile	3.068	53	898537	496.093	ug/l	100
16) Acetone	2.380	43	707647	478.882	ug/l	98
17) Carbon Disulfide	2.526	76	1006664	98.304	ug/l	99
18) Methyl Acetate	2.709	43	410853	105.486	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	1142805	103.638	ug/l	98
20) Methylene Chloride	2.800	84	428892	98.153	ug/l	97
21) trans-1,2-Dichloroethene	3.105	96	396705	99.285	ug/l	97
22) Diisopropyl ether	3.764	45	1387980	103.342	ug/l	97
23) Vinyl Acetate	3.727	43	5276627	524.403	ug/l	100
24) 1,1-Dichloroethane	3.617	63	759957	99.213	ug/l	100
25) 2-Butanone	4.550	43	992659	503.497	ug/l	99
26) 2,2-Dichloropropane	4.483	77	577382	101.283	ug/l	100
27) cis-1,2-Dichloroethene	4.495	96	482620	98.931	ug/l	100
28) Bromochloromethane	4.904	49	371458	98.260	ug/l	100
29) Tetrahydrofuran	5.001	42	640795	509.872	ug/l	99
30) Chloroform	5.099	83	757773	96.834	ug/l	100
31) Cyclohexane	5.477	56	667229	98.120	ug/l	100
32) 1,1,1-Trichloroethane	5.391	97	649123	99.286	ug/l	99
36) 1,1-Dichloropropene	5.696	75	514002	94.809	ug/l	99
37) Ethyl Acetate	4.715	43	420101	90.979	ug/l	98
38) Carbon Tetrachloride	5.684	117	567706	97.774	ug/l	98
39) Methylcyclohexane	7.379	83	683852	100.837	ug/l	99
40) Benzene	6.044	78	1589318	96.921	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046864.D
 Acq On : 02 Jul 2025 14:10
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Quant Time: Jul 03 05:33:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	261090	105.996	ug/l	99
42) 1,2-Dichloroethane	6.086	62	536004	96.261	ug/l	100
43) Isopropyl Acetate	6.336	43	746174	105.501	ug/l	100
44) Trichloroethene	7.123	130	411222	96.336	ug/l	98
45) 1,2-Dichloropropane	7.427	63	408244	98.538	ug/l	100
46) Dibromomethane	7.580	93	279372	97.324	ug/l	99
47) Bromodichloromethane	7.818	83	601292	98.101	ug/l	98
48) Methyl methacrylate	7.690	41	389200	106.573	ug/l	100
49) 1,4-Dioxane	7.659	88	82890	1958.872	ug/l	97
51) 4-Methyl-2-Pentanone	8.568	43	2089507	500.587	ug/l	99
52) Toluene	8.714	92	984220	96.858	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	580117	106.052	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	650539	104.190	ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	367441	97.082	ug/l	98
56) Ethyl methacrylate	9.116	69	554620	105.873	ug/l	99
57) 1,3-Dichloropropane	9.305	76	625220	95.933	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	1541497	522.248	ug/l	100
59) 2-Hexanone	9.427	43	1406681	508.068	ug/l	100
60) Dibromochloromethane	9.519	129	445393	98.331	ug/l	99
61) 1,2-Dibromoethane	9.604	107	375661	98.827	ug/l	99
64) Tetrachloroethene	9.269	164	333229	95.978	ug/l	95
65) Chlorobenzene	10.073	112	1095855	97.200	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	381396	100.632	ug/l	99
67) Ethyl Benzene	10.189	91	1925349	99.720	ug/l	99
68) m/p-Xylenes	10.299	106	1424898	195.851	ug/l	99
69) o-Xylene	10.640	106	691874	98.448	ug/l	99
70) Styrene	10.653	104	1206962	100.381	ug/l	99
71) Bromoform	10.799	173	286378	101.623	ug/l	100
73) Isopropylbenzene	10.957	105	1824241	102.183	ug/l	100
74) N-amyl acetate	10.842	43	661864	109.100	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	477117	97.192	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	401735m	102.378	ug/l	
77) Bromobenzene	11.195	156	441962	99.388	ug/l	98
78) n-propylbenzene	11.299	91	2169188	100.767	ug/l	99
79) 2-Chlorotoluene	11.360	91	1268825	99.822	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	1497082	103.204	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	158326	108.273	ug/l	98
82) 4-Chlorotoluene	11.451	91	1472712	100.402	ug/l	100
83) tert-Butylbenzene	11.713	119	1539450	102.751	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	1488102	101.492	ug/l	97
85) sec-Butylbenzene	11.890	105	1912633	101.251	ug/l	99
86) p-Isopropyltoluene	12.006	119	1605082	101.466	ug/l	100
87) 1,3-Dichlorobenzene	11.963	146	825505	99.260	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	823926	95.192	ug/l	100
89) n-Butylbenzene	12.329	91	1515258	101.944	ug/l	100
90) Hexachloroethane	12.536	117	294961	105.182	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	792536	98.339	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	90270	105.136	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	569410	104.000	ug/l	100
94) Hexachlorobutadiene	13.725	225	207095	100.298	ug/l	99
95) Naphthalene	13.774	128	1572381	108.986	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	543127	104.988	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046864.D
Acq On : 02 Jul 2025 14:10
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

Quant Time: Jul 03 05:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:21:52 2025
Response via : Initial Calibration

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

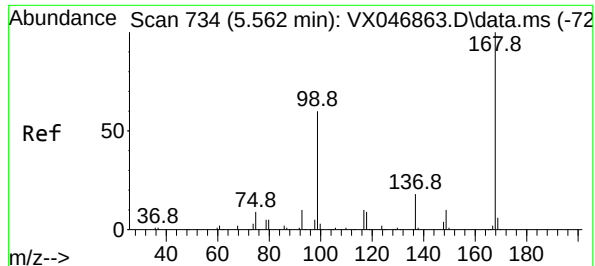
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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Supervised By :Mahesh Dadoda 07/03/2025





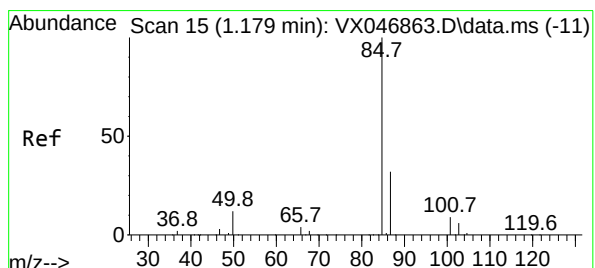
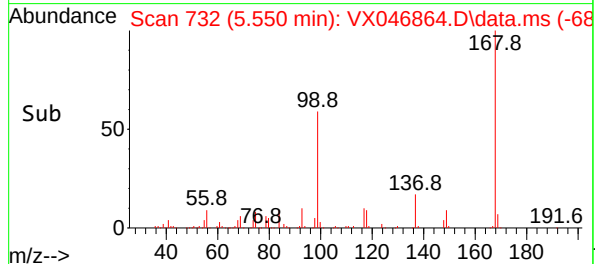
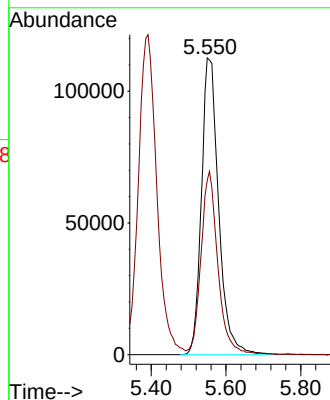
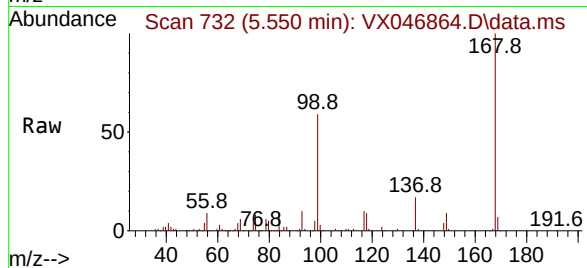
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 360099
Ion Ratio Lower Upper
168 100
99 58.6 48.8 73.2

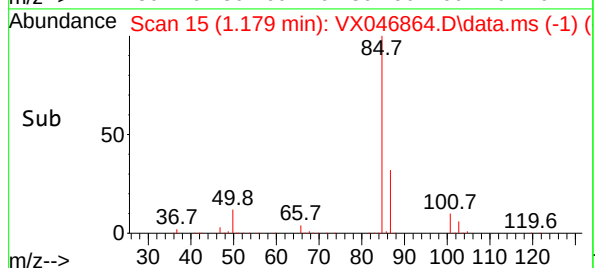
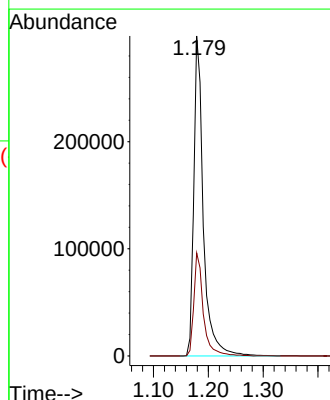
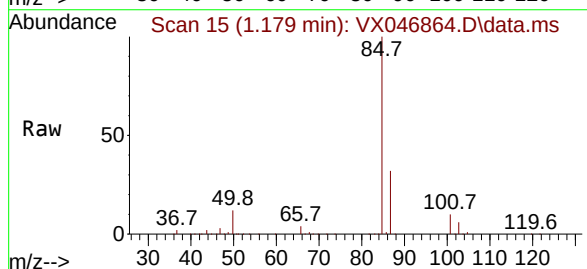
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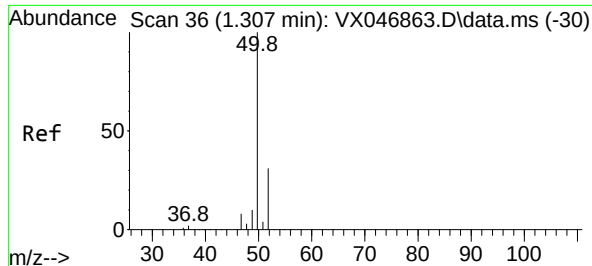
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#2
Dichlorodifluoromethane
Concen: 105.107 ug/l
RT: 1.179 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Tgt Ion: 85 Resp: 361969
Ion Ratio Lower Upper
85 100
87 32.2 16.0 47.9





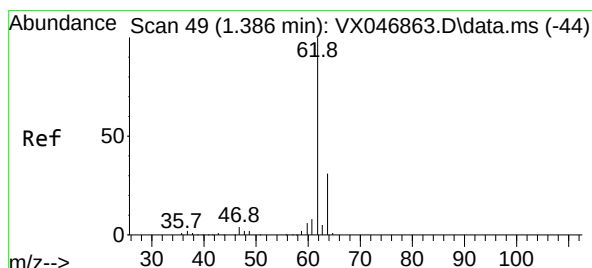
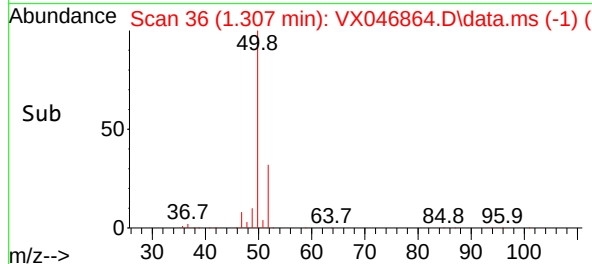
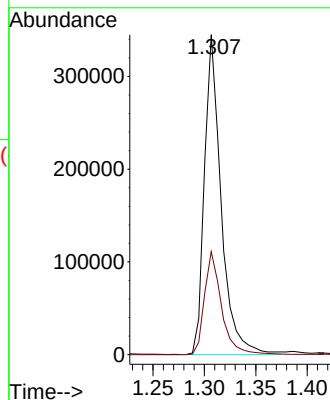
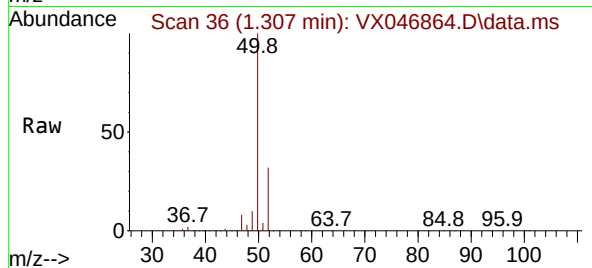
#3
Chloromethane
Concen: 104.014 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 391364
Ion Ratio Lower Upper
50 100
52 32.2 25.0 37.4

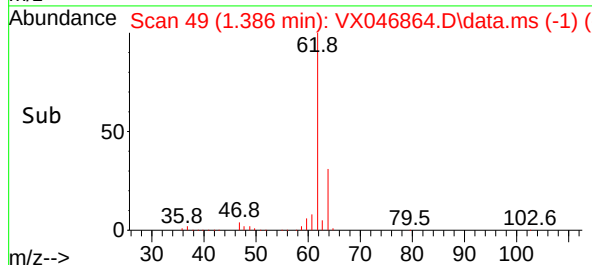
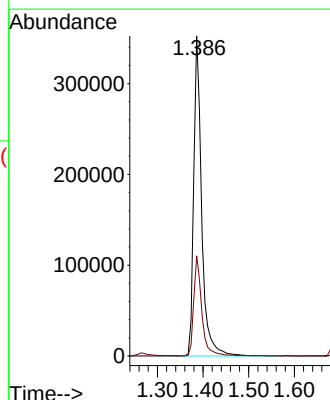
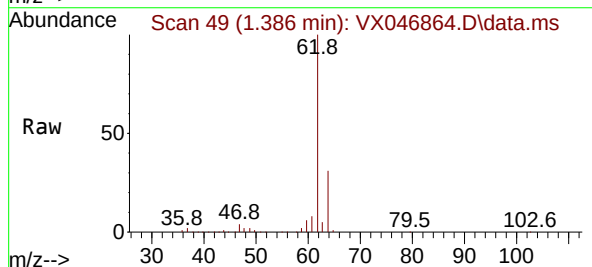
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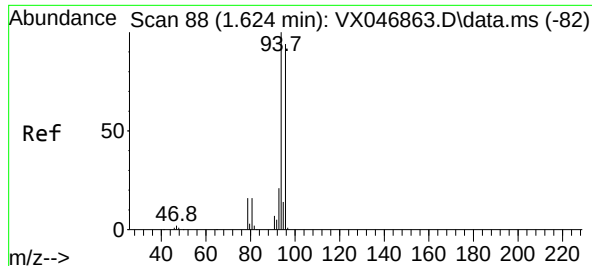
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#4
Vinyl Chloride
Concen: 103.527 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

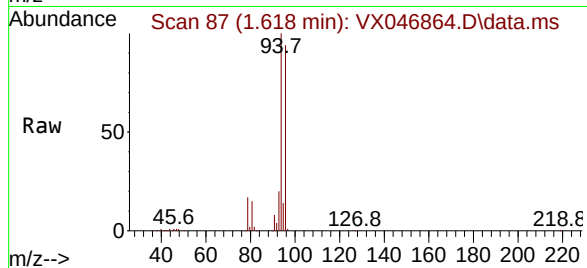
Tgt Ion: 62 Resp: 424193
Ion Ratio Lower Upper
62 100
64 31.2 25.0 37.4





#5
Bromomethane
Concen: 100.979 ug/l
RT: 1.618 min Scan# 81
Delta R.T. -0.006 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

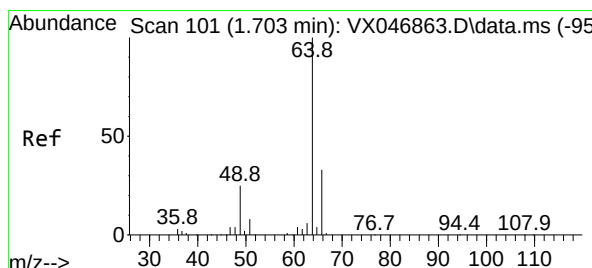
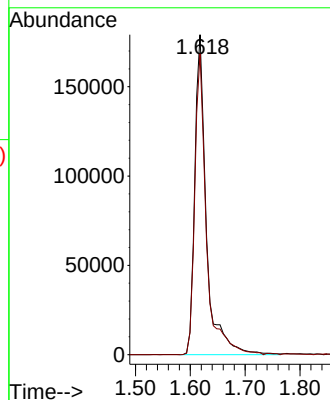
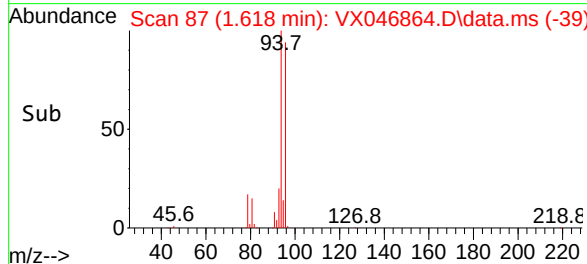
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 94 Resp: 265849
Ion Ratio Lower Upper
94 100
96 94.1 75.5 113.3

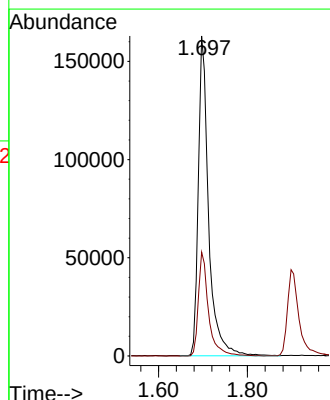
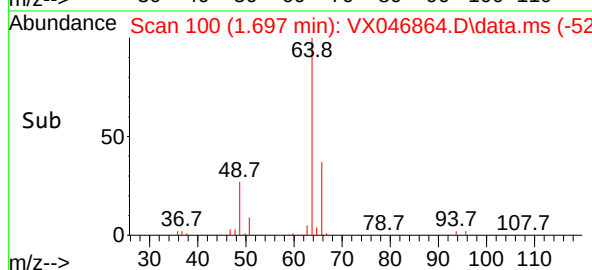
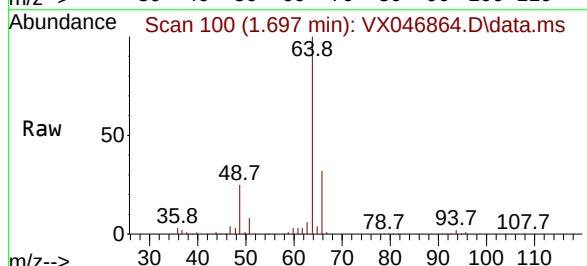
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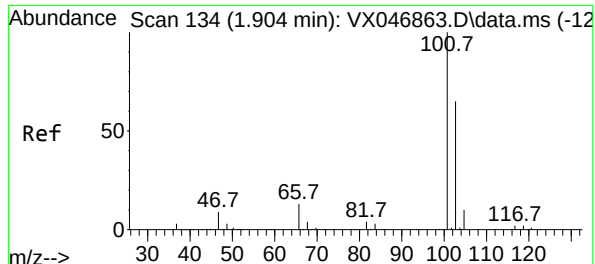
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#6
Chloroethane
Concen: 96.337 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Tgt Ion: 64 Resp: 260651
Ion Ratio Lower Upper
64 100
66 32.5 26.4 39.6





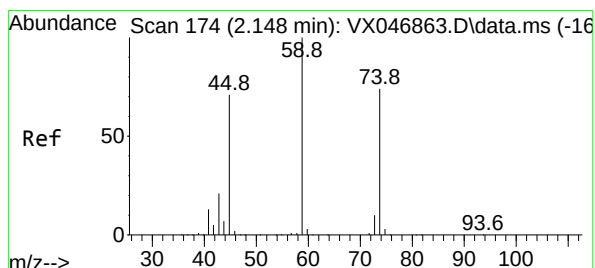
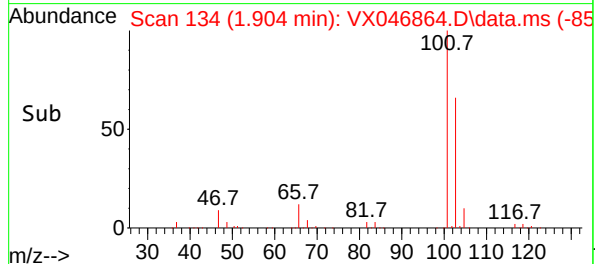
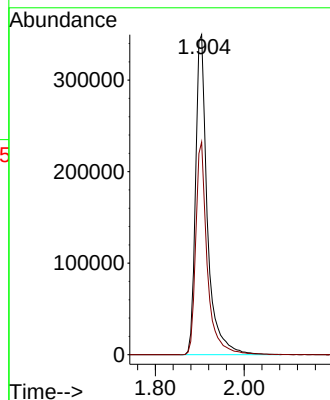
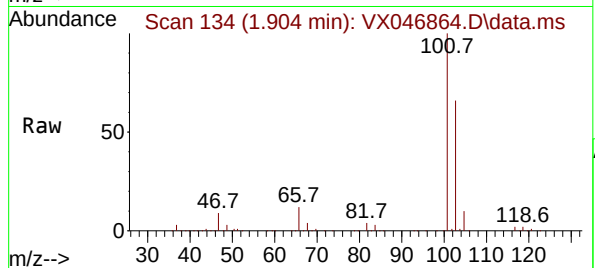
#7
Trichlorofluoromethane
Concen: 101.523 ug/l
RT: 1.904 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 64320
Ion Ratio Lower Upper
101 100
103 66.4 51.9 77.9

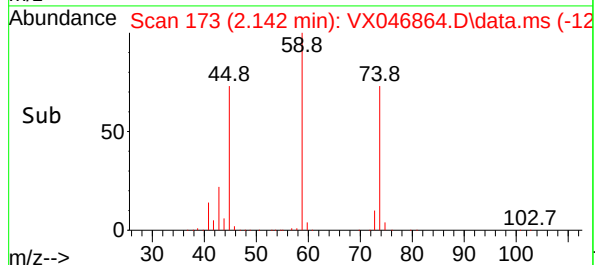
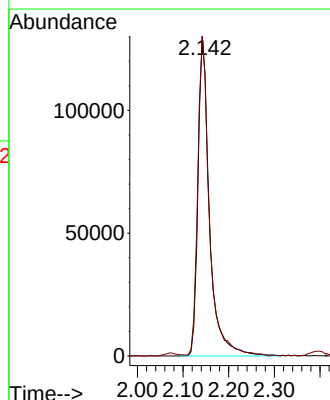
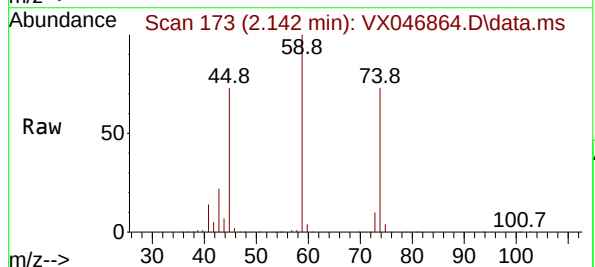
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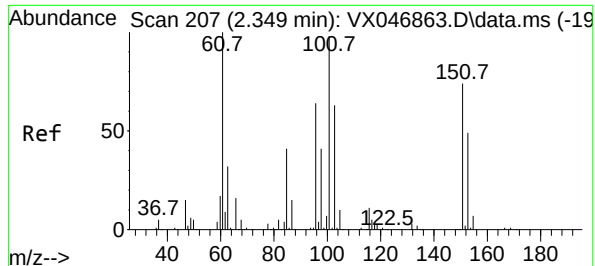
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#8
Diethyl Ether
Concen: 101.358 ug/l
RT: 2.142 min Scan# 173
Delta R.T. -0.006 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Tgt Ion: 74 Resp: 228526
Ion Ratio Lower Upper
74 100
45 101.6 50.7 152.1





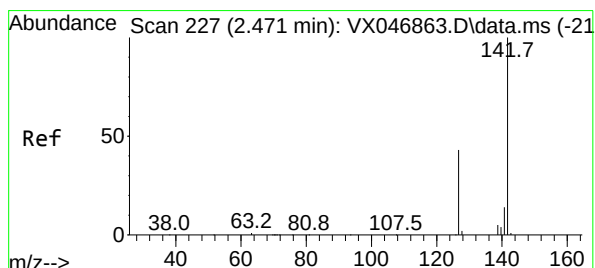
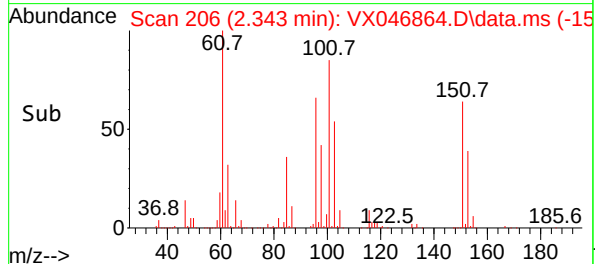
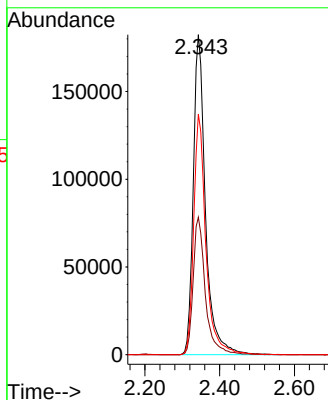
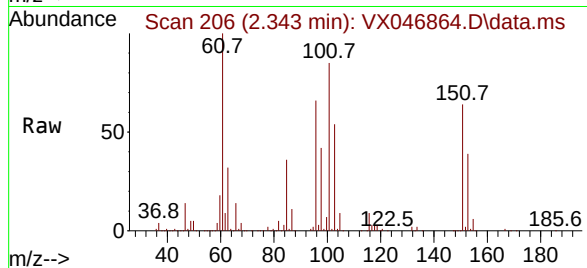
#9
1,1,2-Trichlorotrifluoroethane
Concen: 102.105 ug/l
RT: 2.343 min Scan# 206
Delta R.T. -0.006 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 412204
Ion Ratio Lower Upper
101 100
85 43.3 34.3 51.5
151 75.5 59.9 89.9

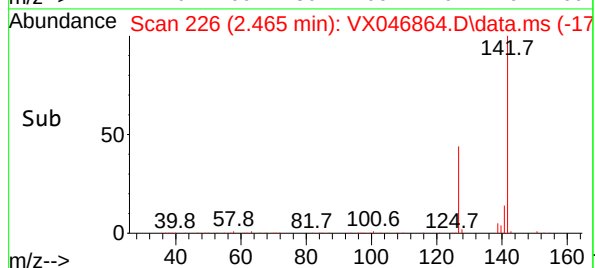
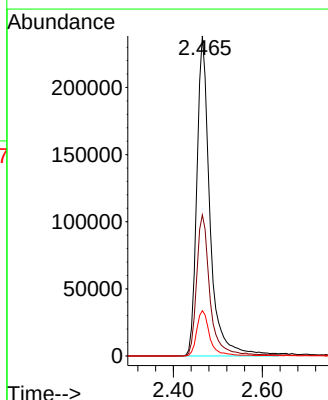
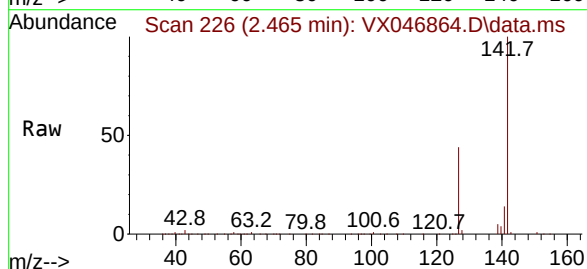
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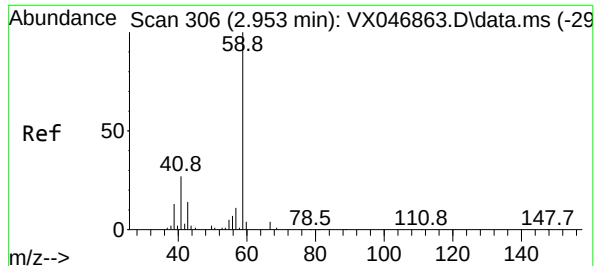
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#10
Methyl Iodide
Concen: 111.457 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Tgt Ion:142 Resp: 490208
Ion Ratio Lower Upper
142 100
127 44.7 34.9 52.3
141 14.2 11.1 16.7





#11

Tert butyl alcohol

Concen: 500.607 ug/l

RT: 2.953 min Scan# 306

Delta R.T. -0.000 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 59 Resp: 156192

Ion Ratio Lower Upper

59 100

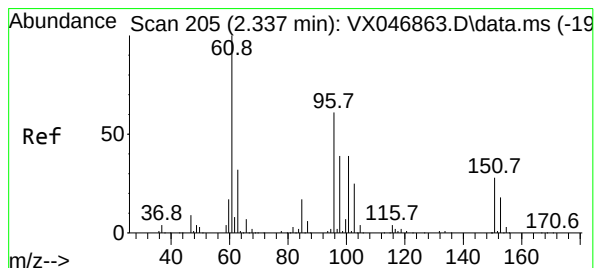
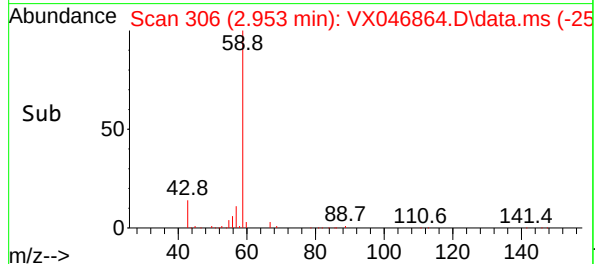
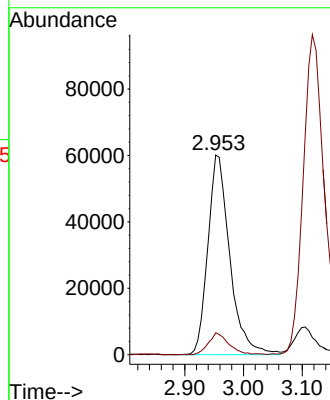
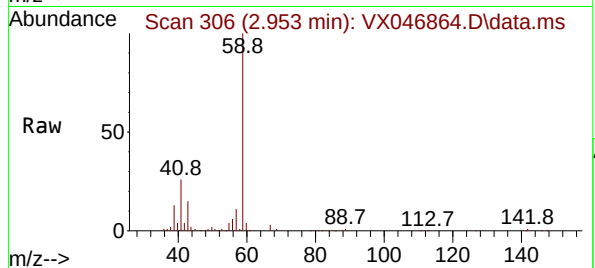
57 10.3 8.5 12.7

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Supervised By :Mahesh Dadoda 07/03/2025



#12

1,1-Dichloroethene

Concen: 100.660 ug/l

RT: 2.331 min Scan# 204

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

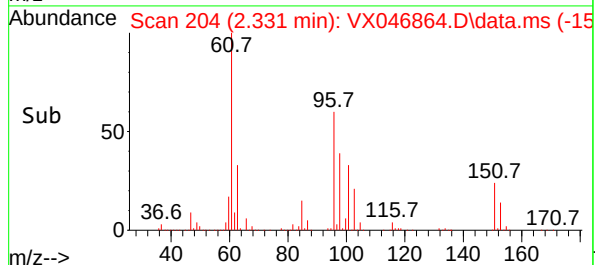
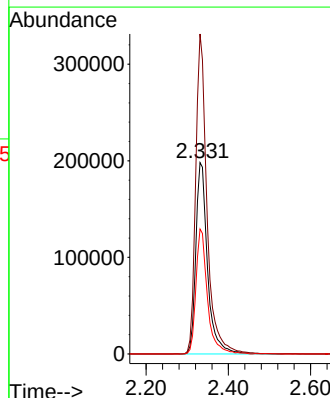
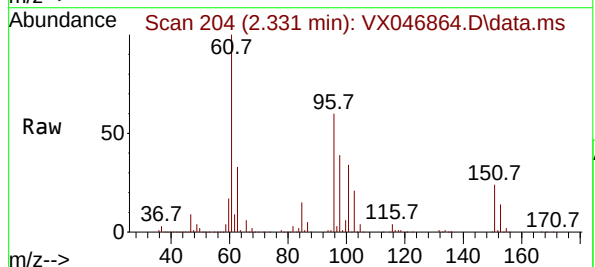
Tgt Ion: 96 Resp: 393053

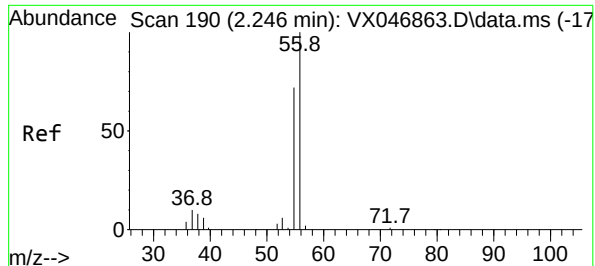
Ion Ratio Lower Upper

96 100

61 167.3 130.2 195.4

98 65.3 51.3 76.9





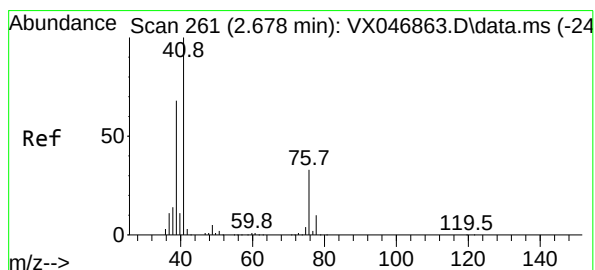
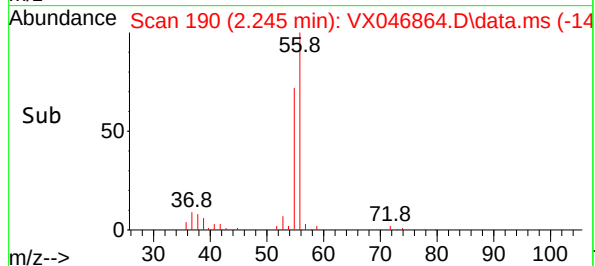
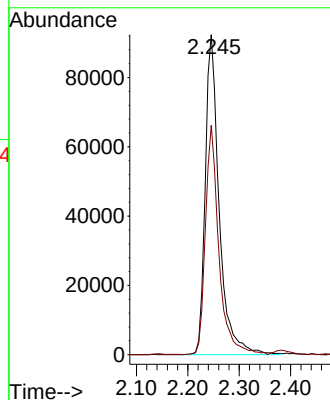
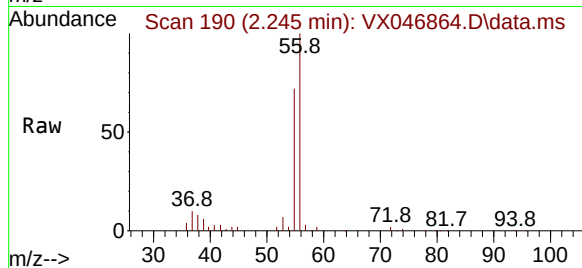
#13
Acrolein
Concen: 500.012 ug/l
RT: 2.245 min Scan# 190
Delta R.T. -0.001 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 56 Resp: 173378
Ion Ratio Lower Upper
56 100
55 69.5 55.5 83.3

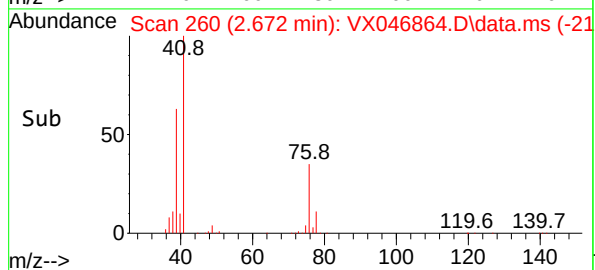
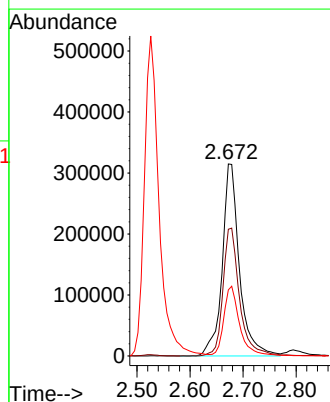
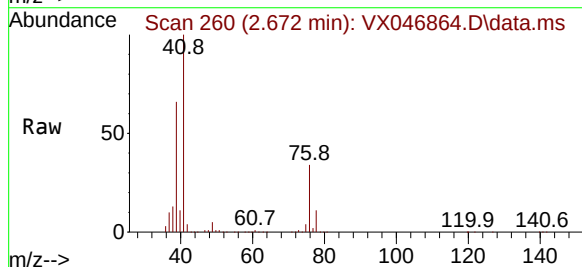
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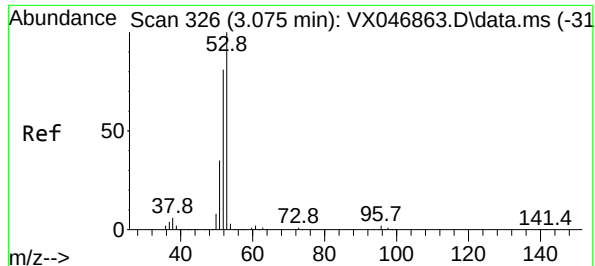
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#14
Allyl chloride
Concen: 102.334 ug/l
RT: 2.672 min Scan# 260
Delta R.T. -0.006 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Tgt Ion: 41 Resp: 711428
Ion Ratio Lower Upper
41 100
39 64.7 52.0 78.0
76 33.3 26.2 39.2





#15

Acrylonitrile

Concen: 496.093 ug/l

RT: 3.068 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 53 Resp: 89853

Ion Ratio Lower Upper

53 100

52 82.2 66.0 99.0

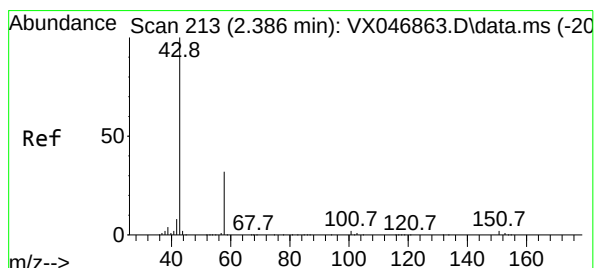
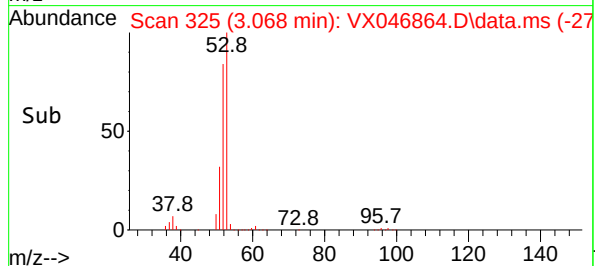
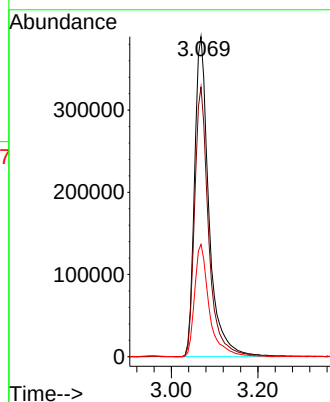
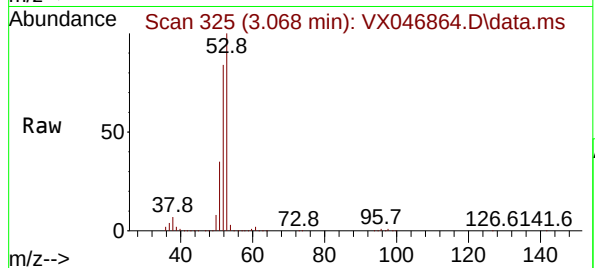
51 35.9 28.6 43.0

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Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#16

Acetone

Concen: 478.882 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.006 min

Lab File: VX046864.D

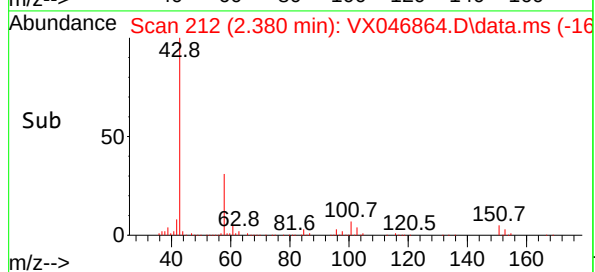
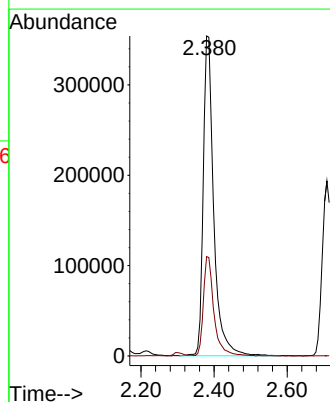
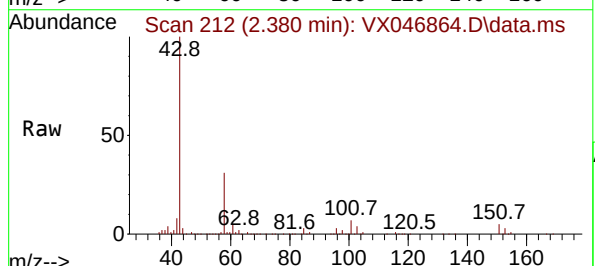
Acq: 02 Jul 2025 14:10

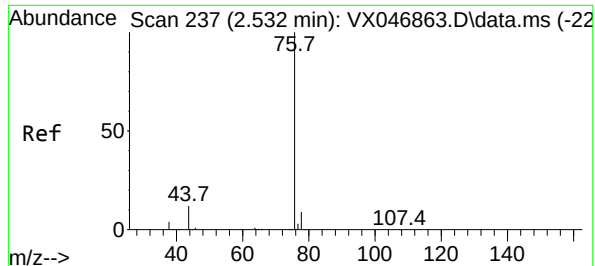
Tgt Ion: 43 Resp: 707647

Ion Ratio Lower Upper

43 100

58 31.0 25.8 38.6





#17

Carbon Disulfide

Concen: 98.304 ug/l

RT: 2.526 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 1006664

Ion Ratio Lower Upper

76 100

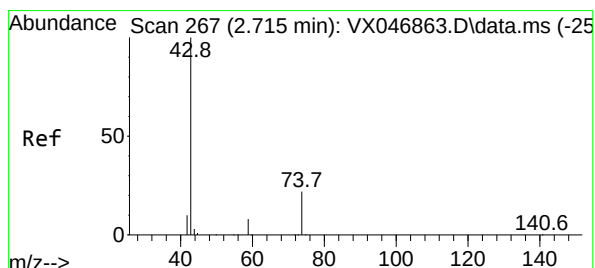
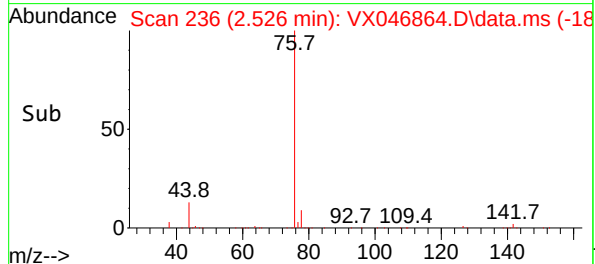
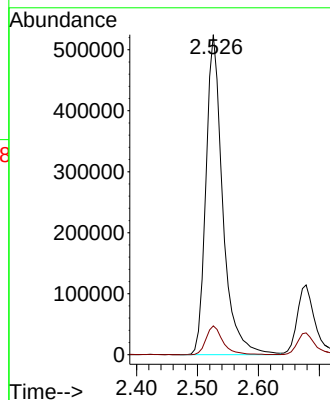
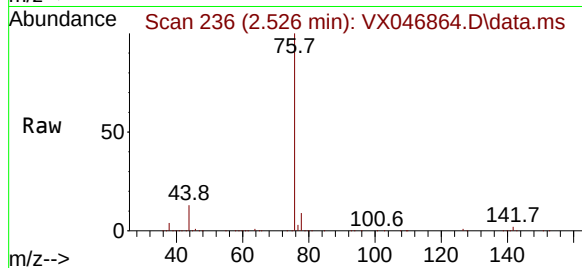
78 9.0 7.4 11.2

Manual Integrations

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Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#18

Methyl Acetate

Concen: 105.486 ug/l

RT: 2.709 min Scan# 266

Delta R.T. -0.006 min

Lab File: VX046864.D

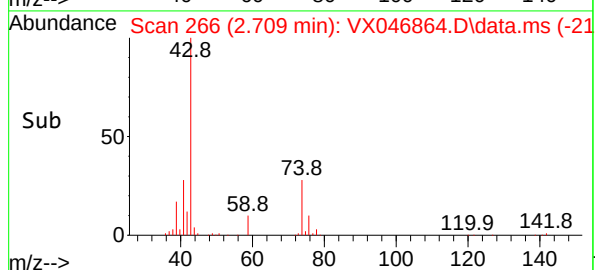
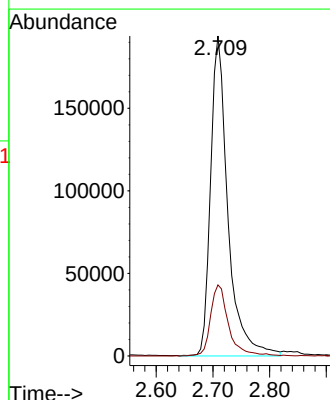
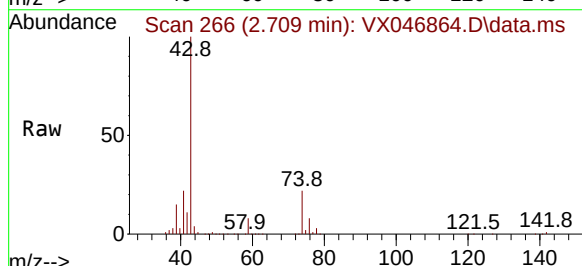
Acq: 02 Jul 2025 14:10

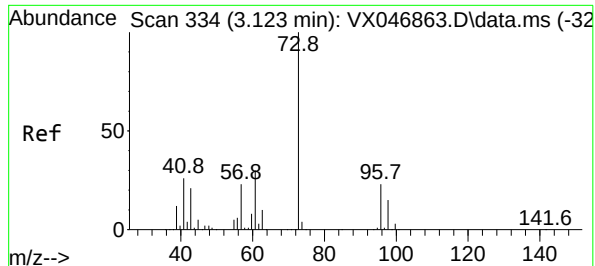
Tgt Ion: 43 Resp: 410853

Ion Ratio Lower Upper

43 100

74 23.2 18.3 27.5





#19

Methyl tert-butyl Ether

Concen: 103.638 ug/l

RT: 3.117 min Scan# 311

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 73 Resp: 114280

Ion Ratio Lower Upper

73 100

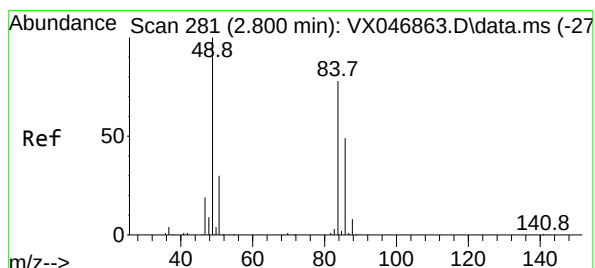
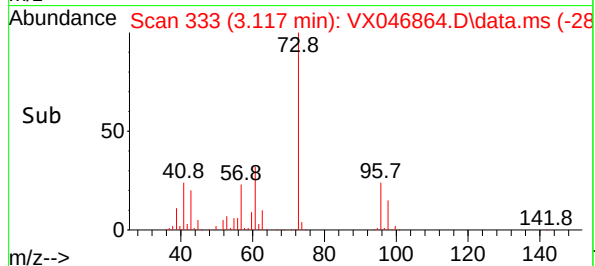
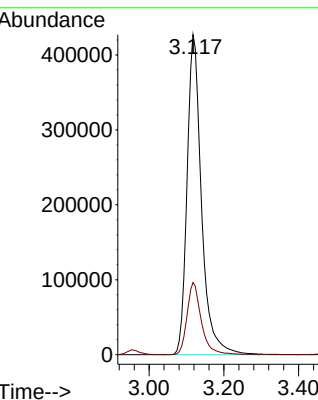
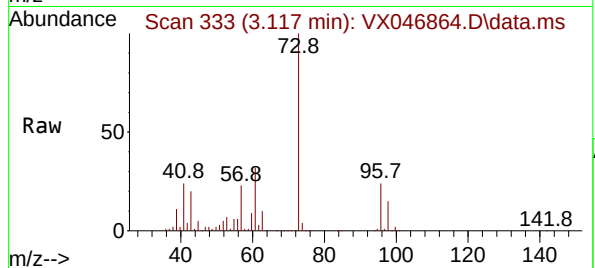
57 22.5 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#20

Methylene Chloride

Concen: 98.153 ug/l

RT: 2.800 min Scan# 281

Delta R.T. -0.000 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Tgt Ion: 84 Resp: 428892

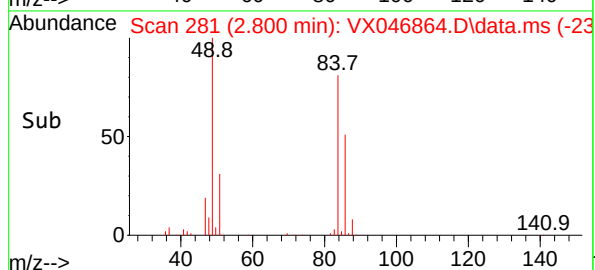
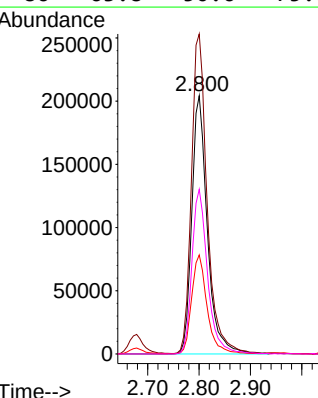
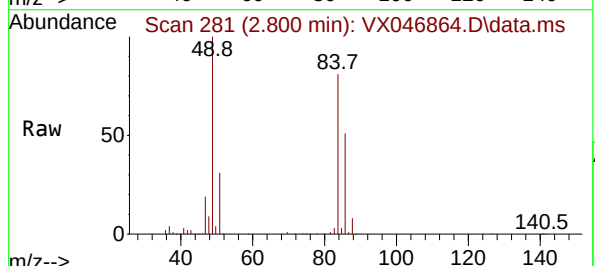
Ion Ratio Lower Upper

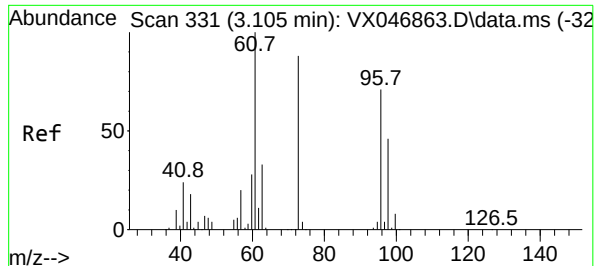
84 100

49 123.7 102.8 154.2

51 38.2 31.1 46.7

86 63.8 50.6 75.8





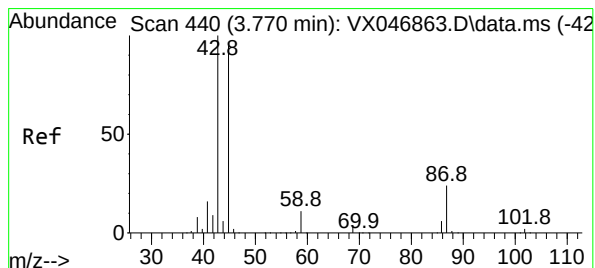
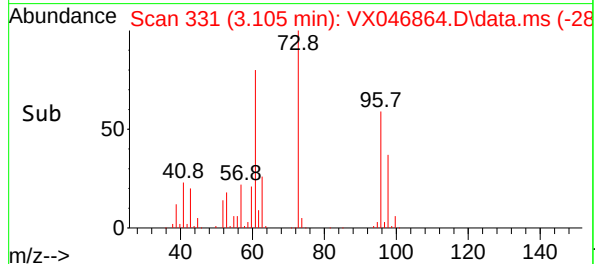
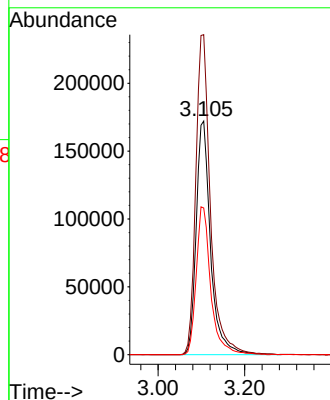
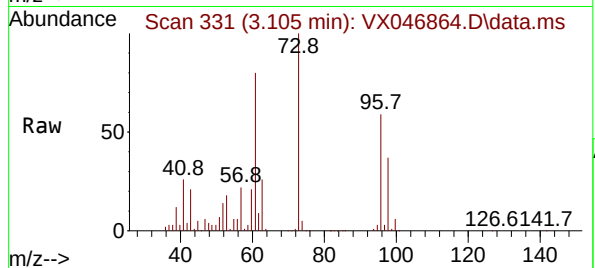
#21
trans-1,2-Dichloroethene
Concen: 99.285 ug/l
RT: 3.105 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 39670
Ion Ratio Lower Upper
96 100
61 137.0 113.4 170.2
98 62.8 51.8 77.6

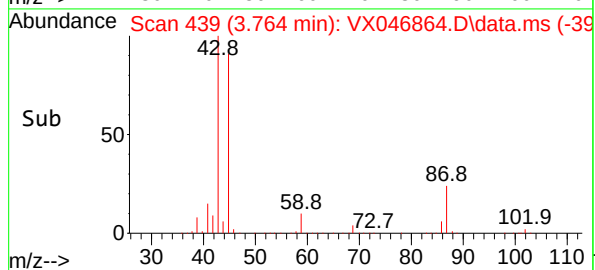
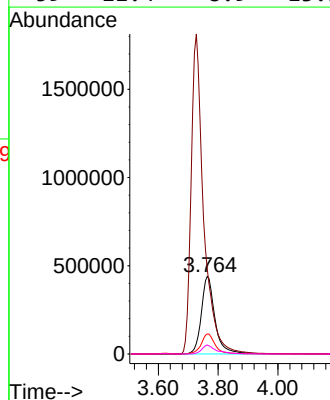
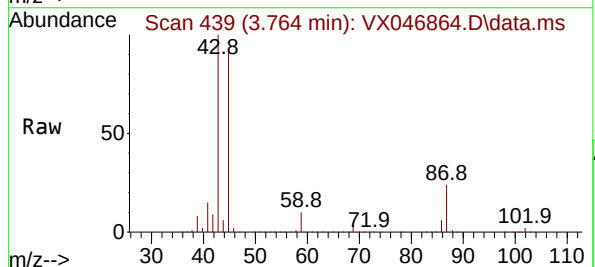
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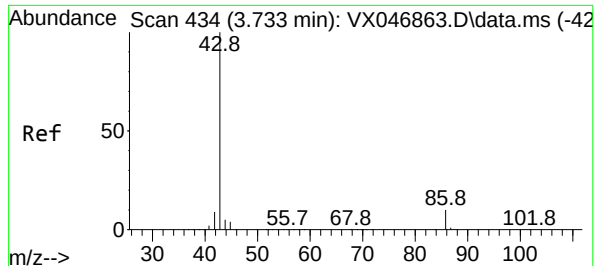
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#22
Diisopropyl ether
Concen: 103.342 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.006 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Tgt Ion: 45 Resp: 1387980
Ion Ratio Lower Upper
45 100
43 109.5 84.2 126.4
87 25.7 20.3 30.5
59 11.4 8.9 13.3





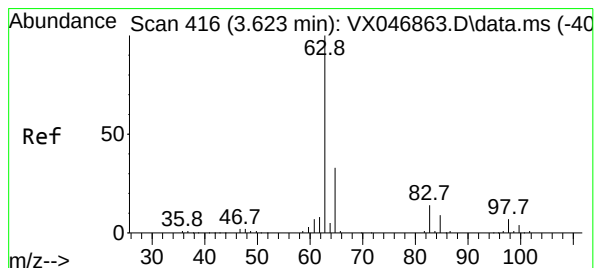
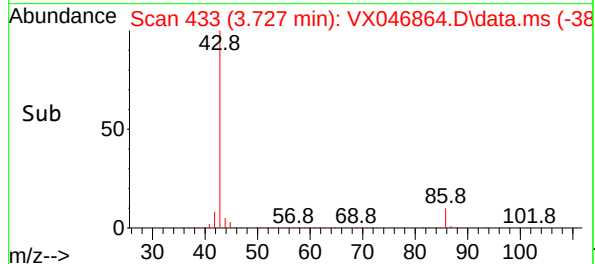
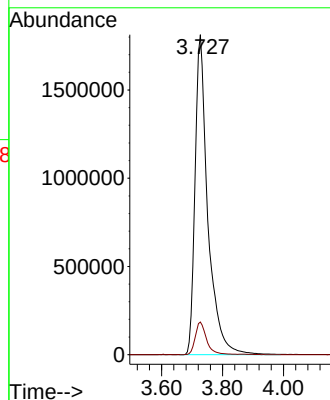
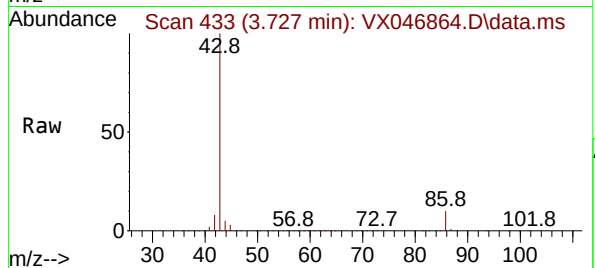
#23
Vinyl Acetate
Concen: 524.403 ug/l
RT: 3.727 min Scan# 41
Delta R.T. -0.006 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 527662
Ion Ratio Lower Upper
43 100
86 10.2 8.2 12.4

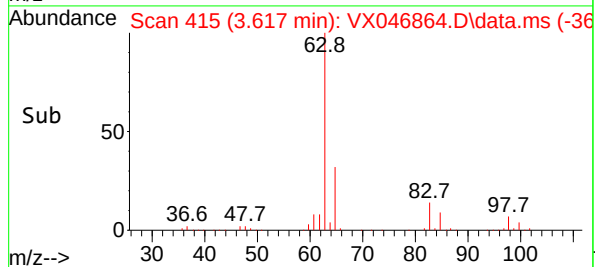
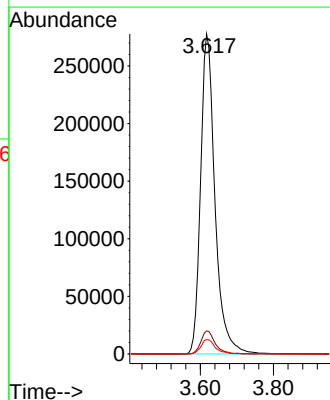
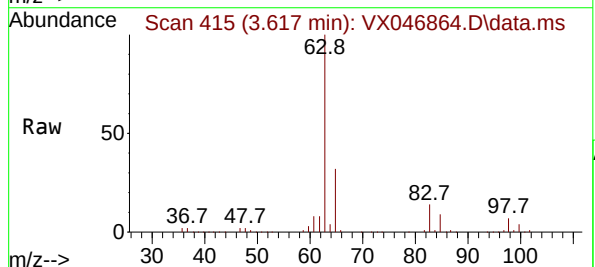
Manual Integrations
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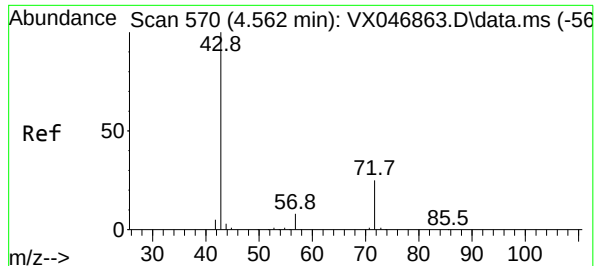
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#24
1,1-Dichloroethane
Concen: 99.213 ug/l
RT: 3.617 min Scan# 415
Delta R.T. -0.006 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Tgt Ion: 63 Resp: 759957
Ion Ratio Lower Upper
63 100
98 7.2 3.6 10.9
100 4.5 2.3 6.9





#25

2-Butanone

Concen: 503.497 ug/l

RT: 4.550 min Scan# 50

Delta R.T. -0.012 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 992659

Ion Ratio Lower Upper

43 100

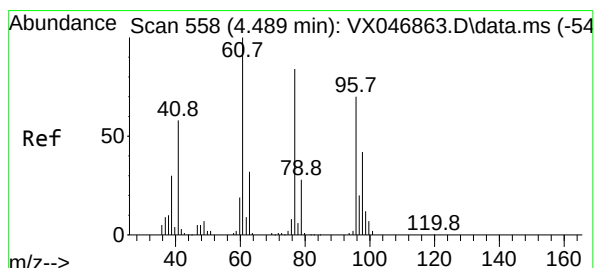
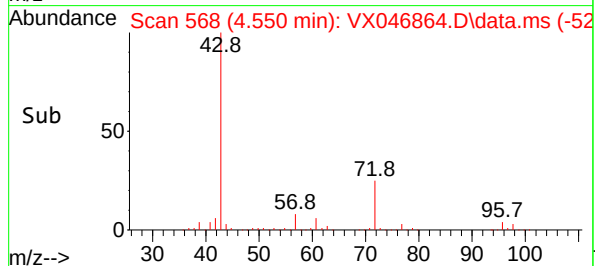
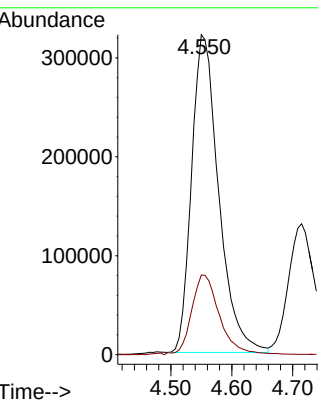
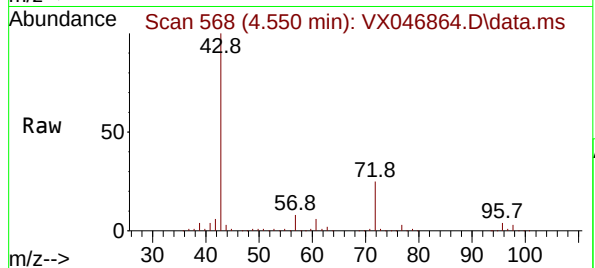
72 24.7 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#26

2,2-Dichloropropane

Concen: 101.283 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.006 min

Lab File: VX046864.D

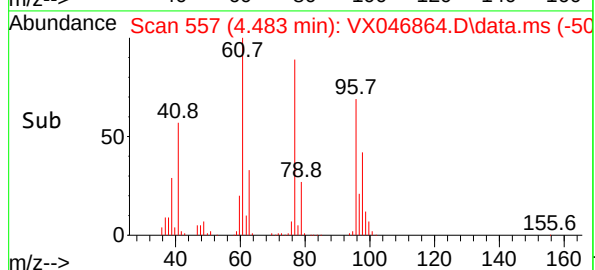
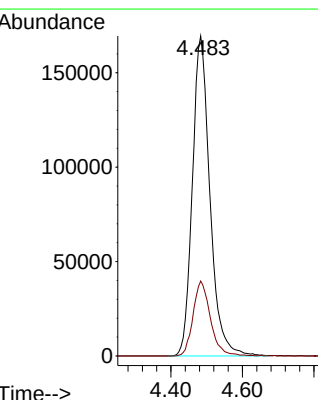
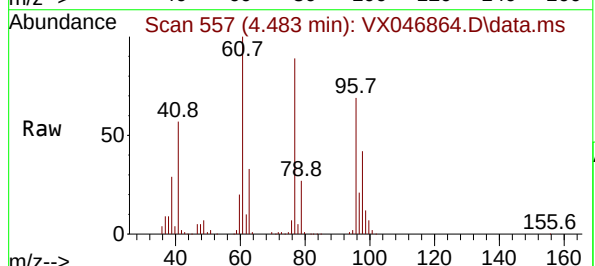
Acq: 02 Jul 2025 14:10

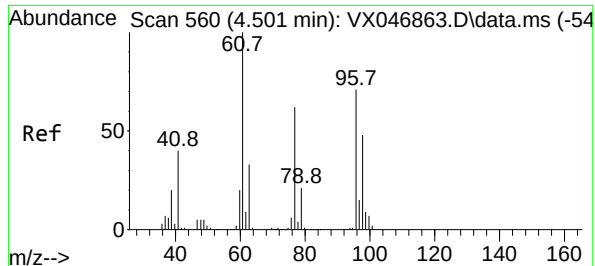
Tgt Ion: 77 Resp: 577382

Ion Ratio Lower Upper

77 100

97 23.2 11.5 34.5





#27

cis-1,2-Dichloroethene

Concen: 98.931 ug/l

RT: 4.495 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 482620

Ion Ratio Lower Upper

96 100

61 143.9 0.0 288.6

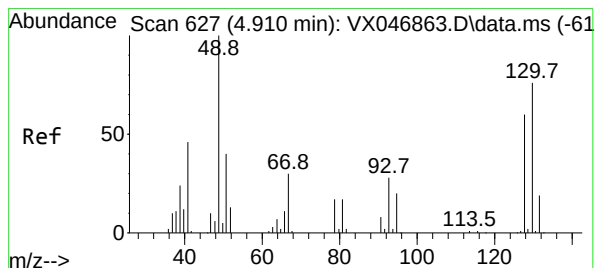
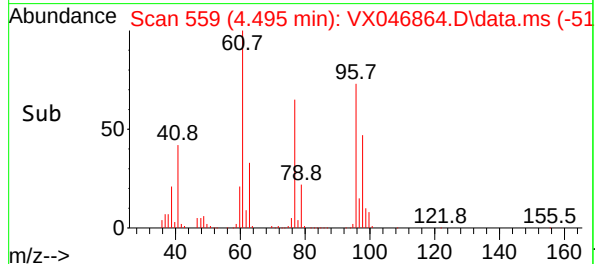
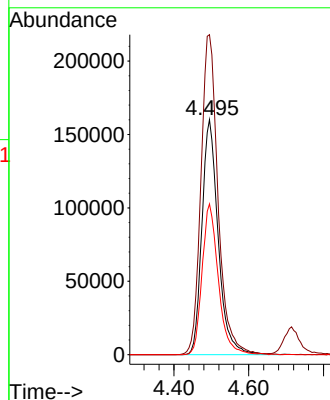
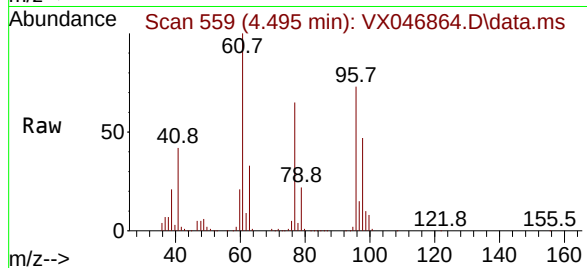
98 64.0 0.0 128.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#28

Bromochloromethane

Concen: 98.260 ug/l

RT: 4.904 min Scan# 626

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

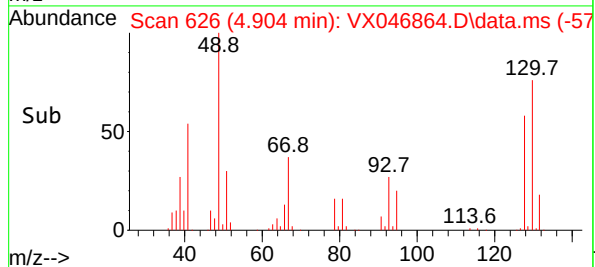
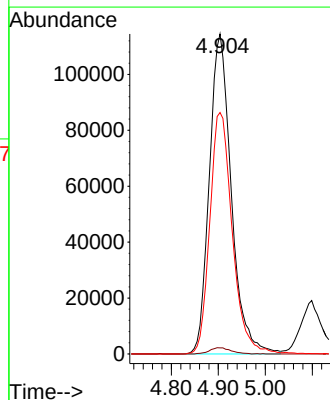
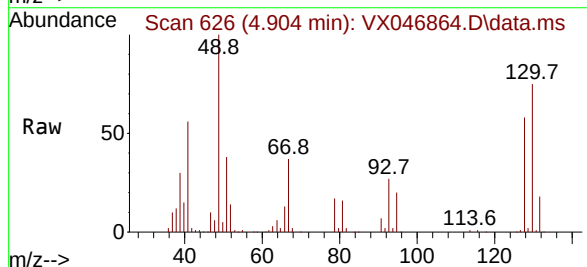
Tgt Ion: 49 Resp: 371458

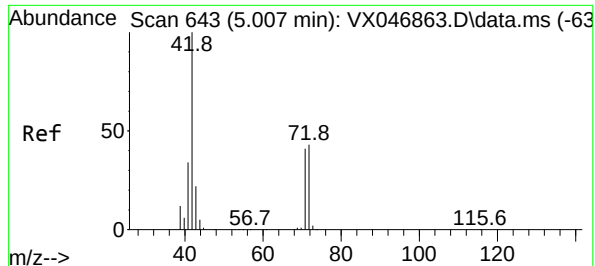
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.2

130 77.1 61.7 92.5





#29

Tetrahydrofuran

Concen: 509.872 ug/l

RT: 5.001 min Scan# 64

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 42 Resp: 64079

Ion Ratio Lower Upper

42 100

72 43.4 35.1 52.7

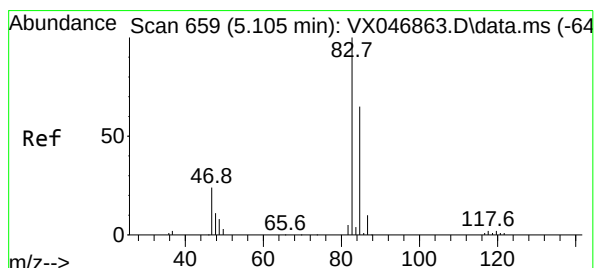
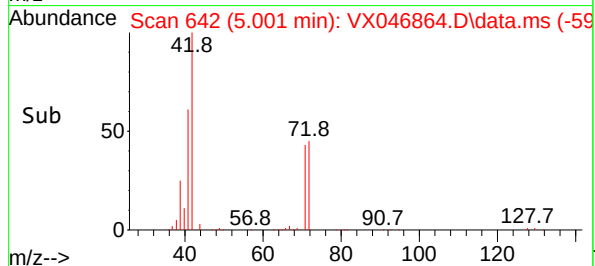
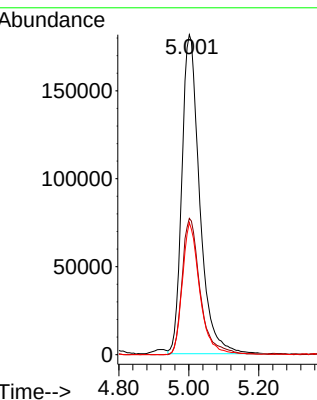
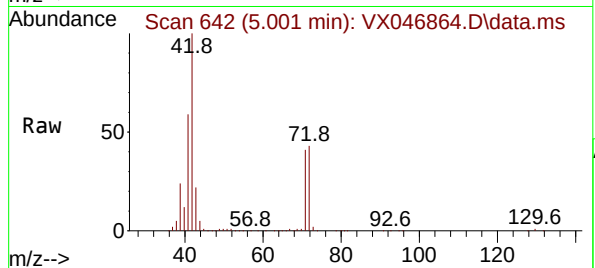
71 40.4 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#30

Chloroform

Concen: 96.834 ug/l

RT: 5.099 min Scan# 658

Delta R.T. -0.006 min

Lab File: VX046864.D

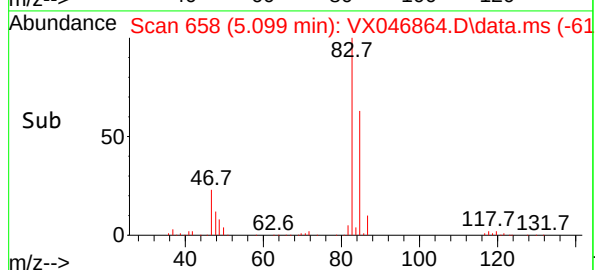
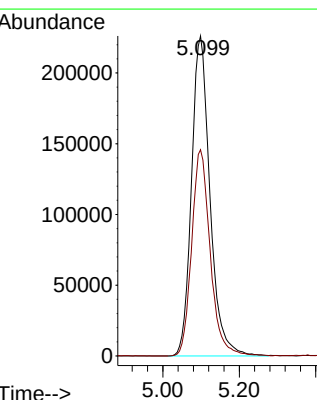
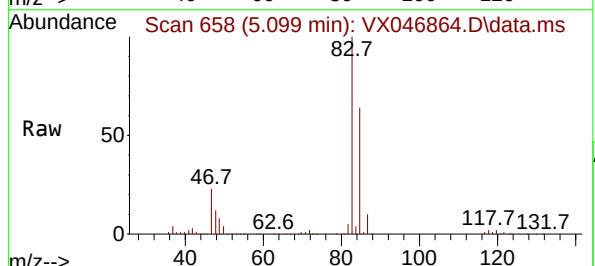
Acq: 02 Jul 2025 14:10

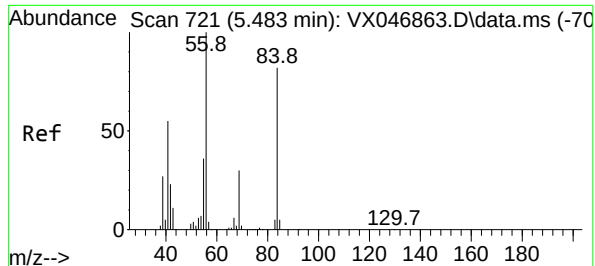
Tgt Ion: 83 Resp: 757773

Ion Ratio Lower Upper

83 100

85 64.5 51.8 77.8





#31

Cyclohexane

Concen: 98.120 ug/l

RT: 5.477 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 667229

Ion Ratio Lower Upper

56 100

69 29.8 24.0 36.0

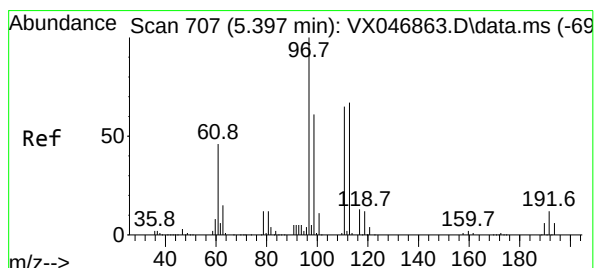
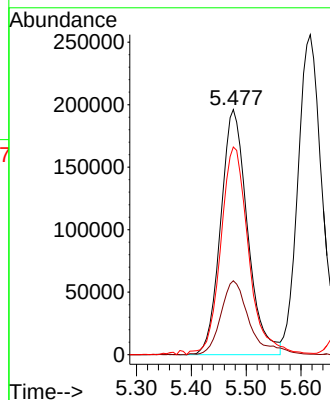
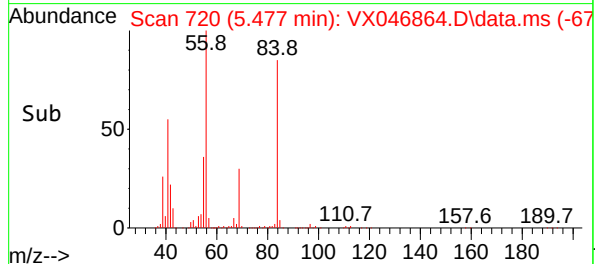
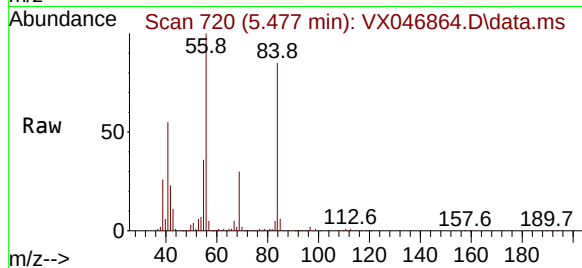
84 82.8 66.5 99.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#32

1,1,1-Trichloroethane

Concen: 99.286 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

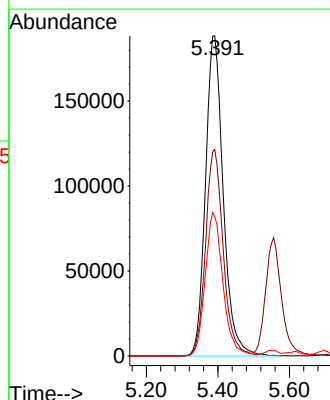
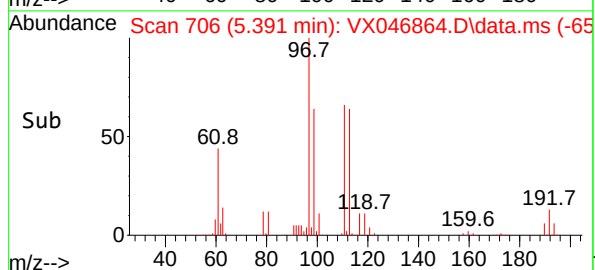
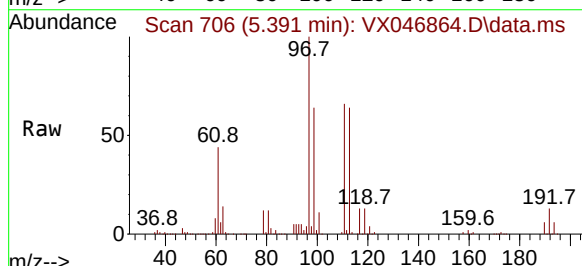
Tgt Ion: 97 Resp: 649123

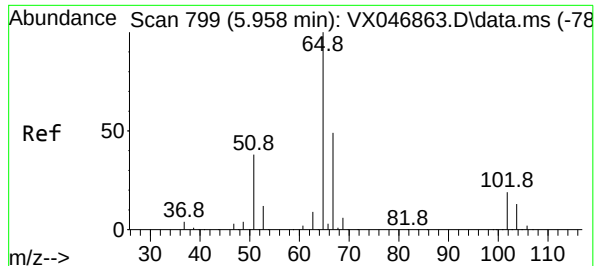
Ion Ratio Lower Upper

97 100

99 64.1 50.6 76.0

61 44.9 36.3 54.5





#33

1,2-Dichloroethane-d4

Concen: 97.021 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.000 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 65 Resp: 46155

Ion Ratio Lower Upper

65 100

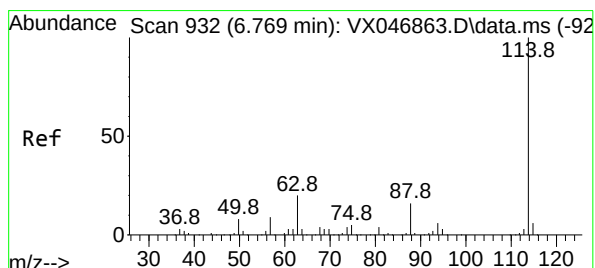
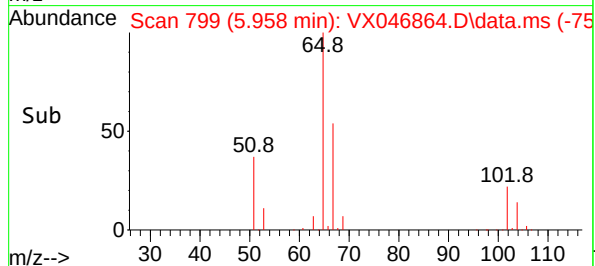
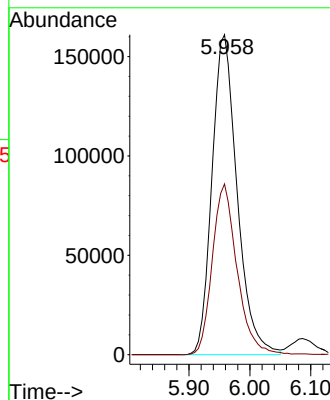
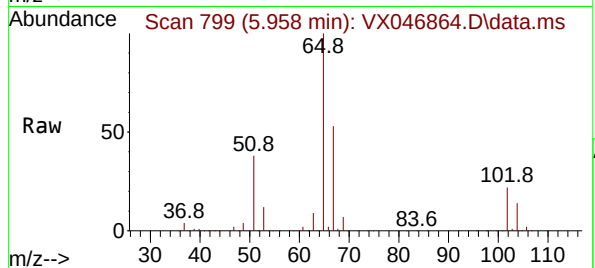
67 52.5 0.0 105.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

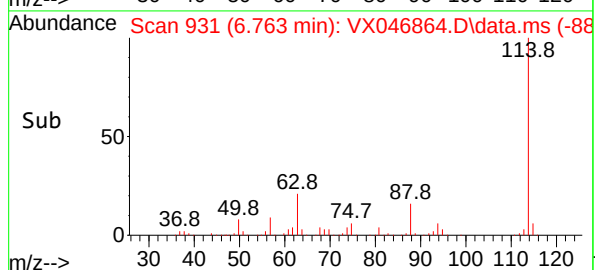
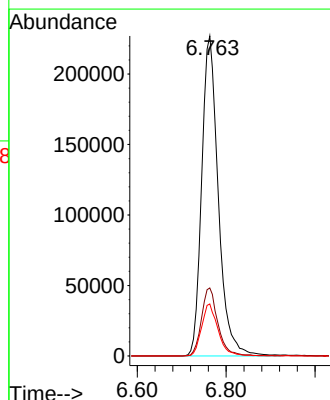
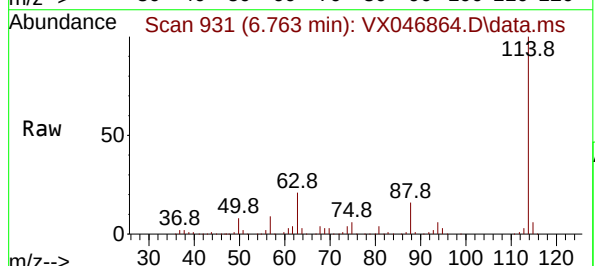
Tgt Ion:114 Resp: 591959

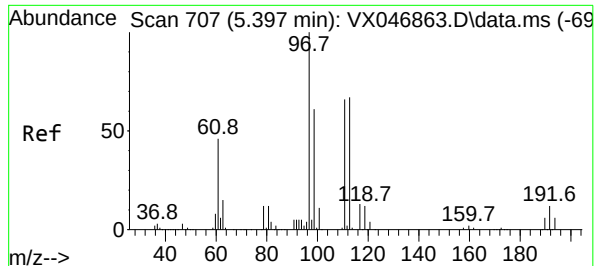
Ion Ratio Lower Upper

114 100

63 21.2 0.0 40.4

88 16.3 0.0 31.0





#35

Dibromofluoromethane

Concen: 97.920 ug/l

RT: 5.385 min Scan# 705

Delta R.T. -0.012 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:113 Resp: 39346

Ion Ratio Lower Upper

113 100

111 103.1 81.2 121.8

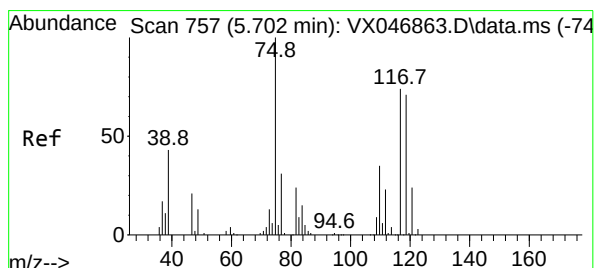
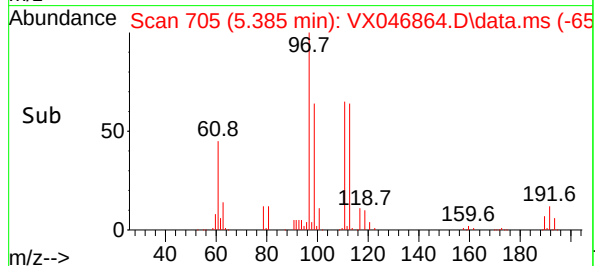
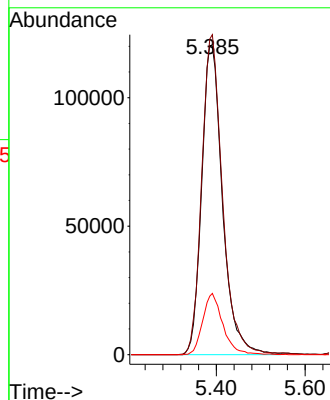
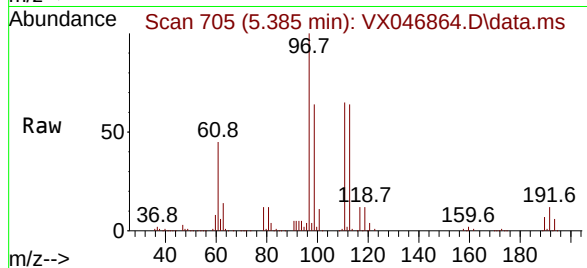
192 19.1 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#36

1,1-Dichloropropene

Concen: 94.809 ug/l

RT: 5.696 min Scan# 756

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

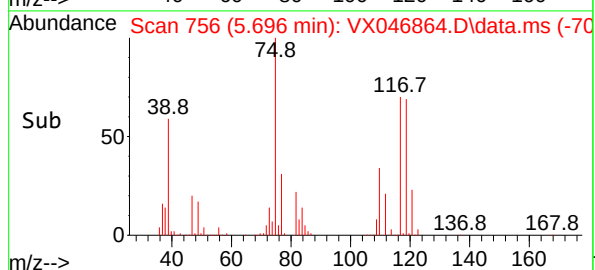
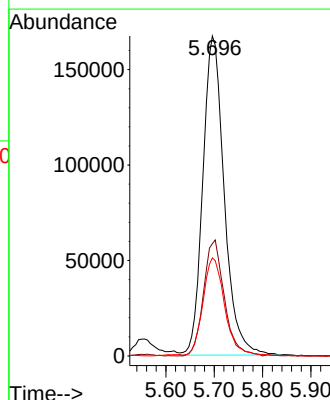
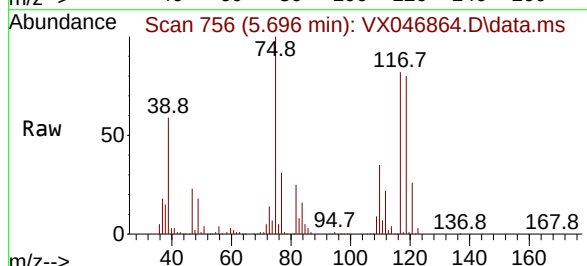
Tgt Ion: 75 Resp: 514002

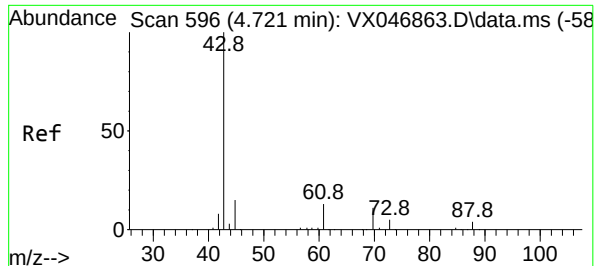
Ion Ratio Lower Upper

75 100

110 35.3 17.3 51.9

77 31.0 24.2 36.4





#37

Ethyl Acetate

Concen: 90.979 ug/l

RT: 4.715 min Scan# 595

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

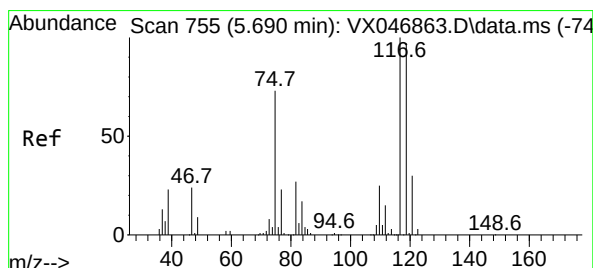
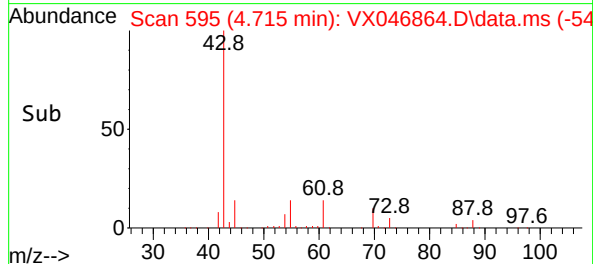
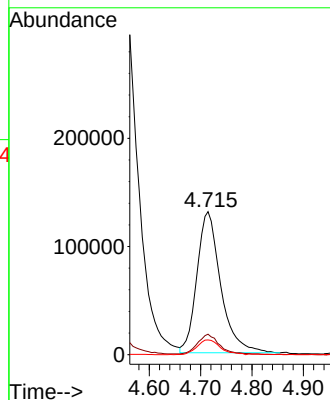
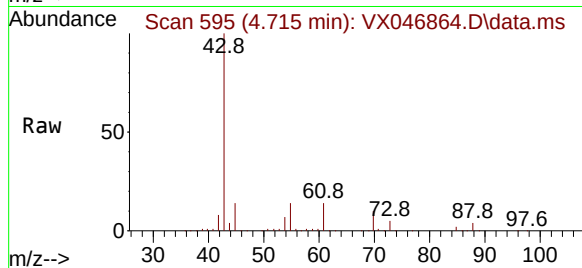
VSTDICC100

Tgt Ion:	43	Resp:	42010
Ion	Ratio	Lower	Upper
43	100		
61	13.4	9.7	14.5
70	10.3	8.3	12.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#38

Carbon Tetrachloride

Concen: 97.774 ug/l

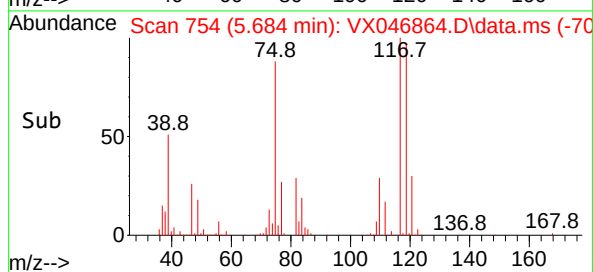
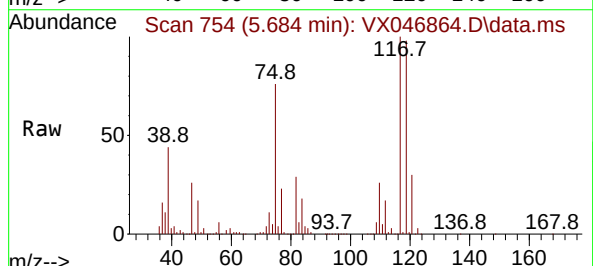
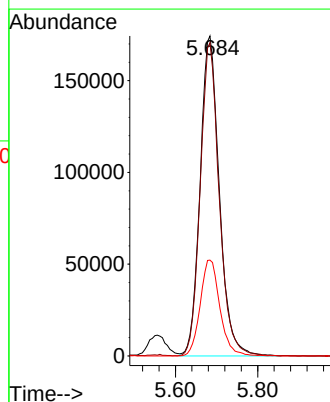
RT: 5.684 min Scan# 754

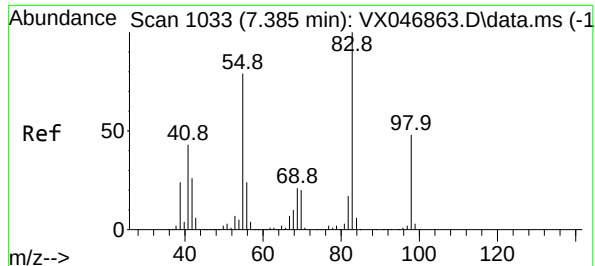
Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Tgt Ion:	117	Resp:	567706
Ion	Ratio	Lower	Upper
117	100		
119	97.8	76.6	114.8
121	30.0	24.1	36.1





#39

Methylcyclohexane

Concen: 100.837 ug/l

RT: 7.379 min Scan# 1032

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 68385

Ion Ratio Lower Upper

83 100

55 79.4 63.0 94.4

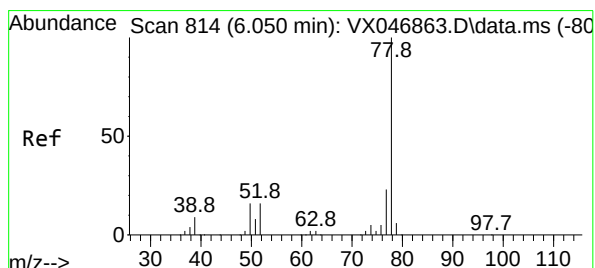
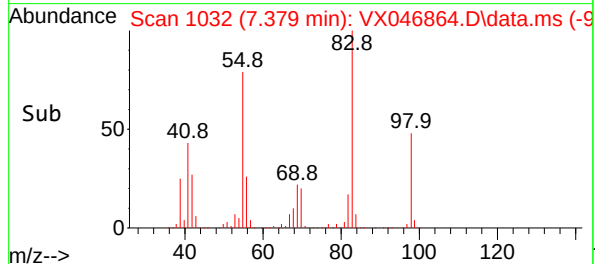
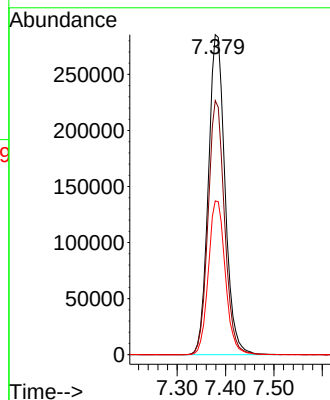
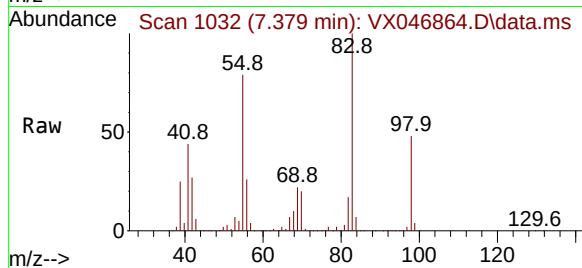
98 48.1 38.5 57.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#40

Benzene

Concen: 96.921 ug/l

RT: 6.044 min Scan# 813

Delta R.T. -0.006 min

Lab File: VX046864.D

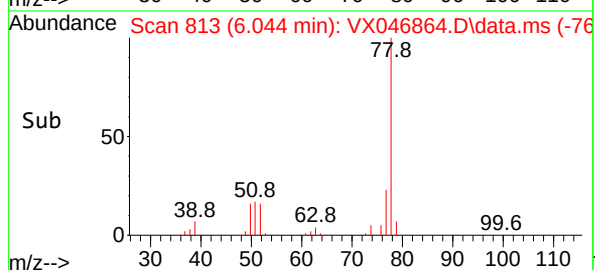
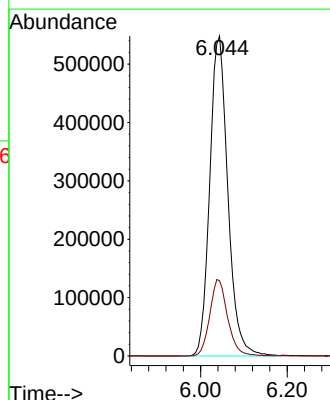
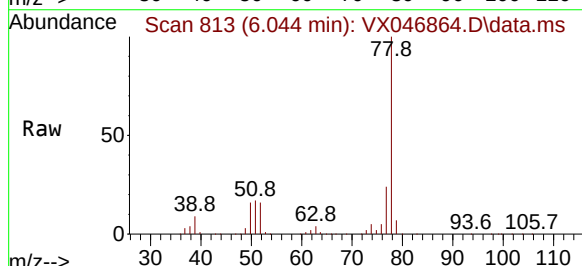
Acq: 02 Jul 2025 14:10

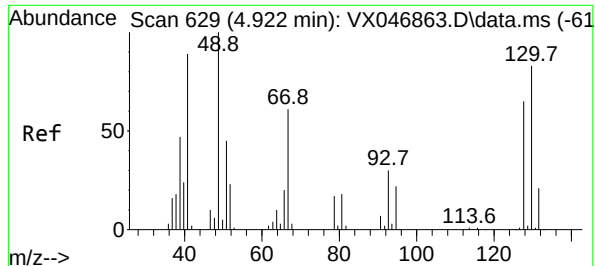
Tgt Ion: 78 Resp: 1589318

Ion Ratio Lower Upper

78 100

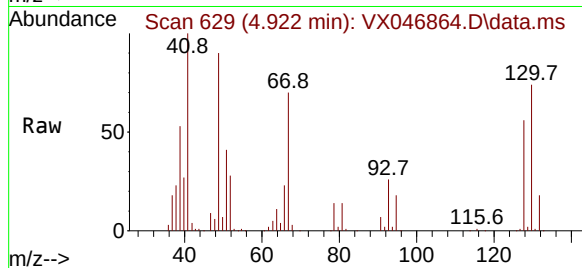
77 23.5 18.7 28.1





#41
Methacrylonitrile
Concen: 105.996 ug/l
RT: 4.922 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

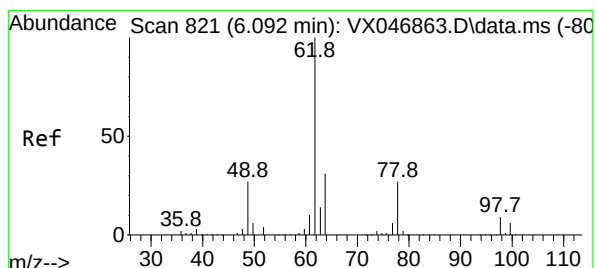
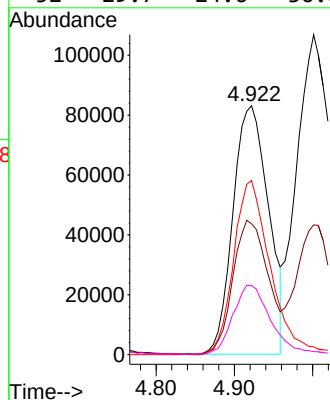
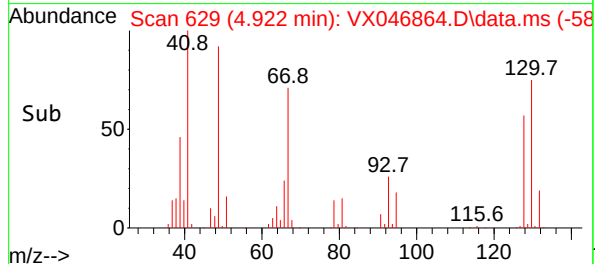
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 41 Resp: 261090
Ion Ratio Lower Upper
41 100
39 53.4 43.0 64.4
67 73.5 60.2 90.2
52 29.7 24.6 36.8

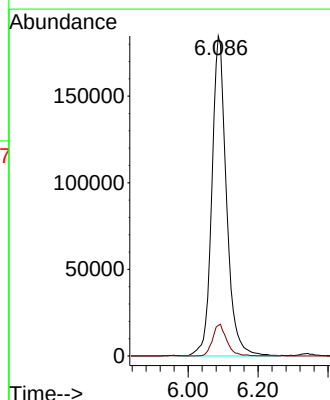
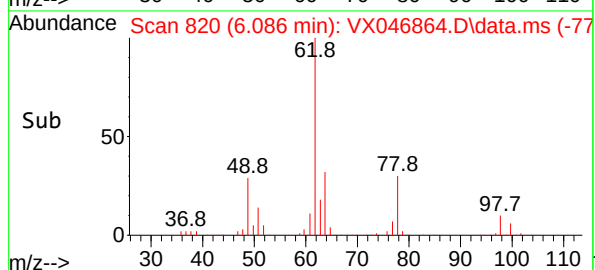
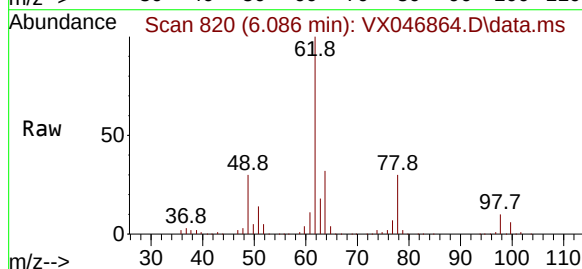
Manual Integrations
APPROVED

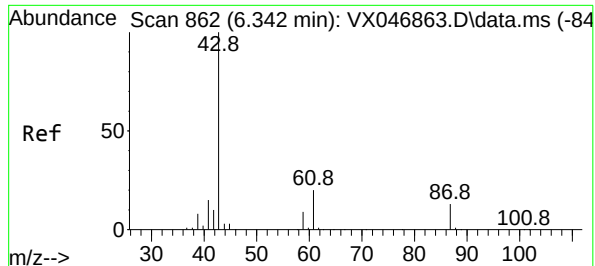
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#42
1,2-Dichloroethane
Concen: 96.261 ug/l
RT: 6.086 min Scan# 820
Delta R.T. -0.006 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Tgt Ion: 62 Resp: 536004
Ion Ratio Lower Upper
62 100
98 9.6 0.0 19.4





#43

Isopropyl Acetate

Concen: 105.501 ug/l

RT: 6.336 min Scan# 80

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

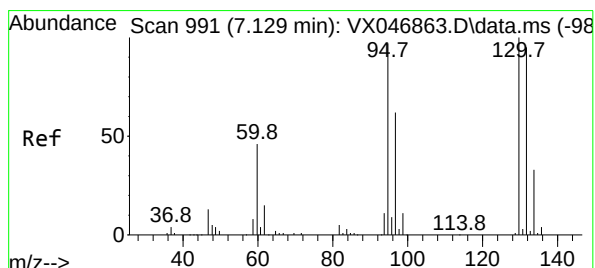
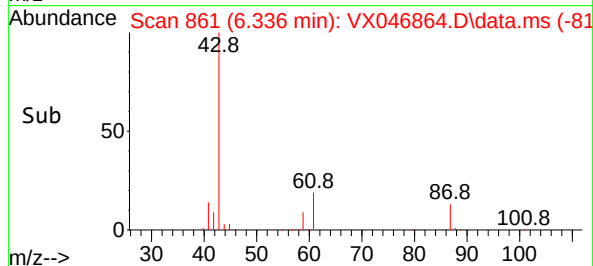
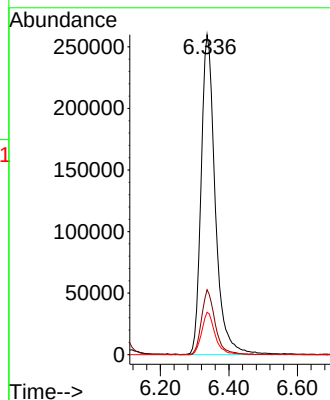
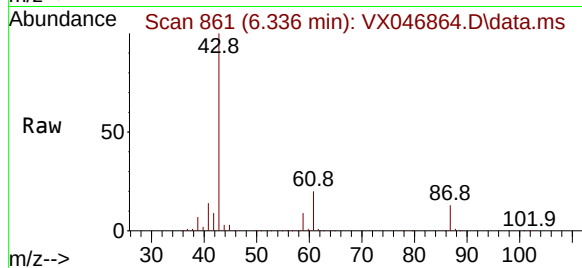
VSTDICC100

Tgt Ion:	43	Resp:	746174
Ion	Ratio	Lower	Upper
43	100		
61	19.6	15.7	23.5
87	12.6	10.1	15.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#44

Trichloroethene

Concen: 96.336 ug/l

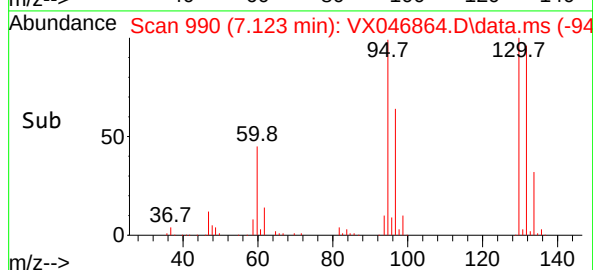
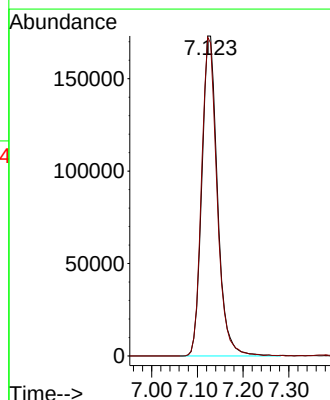
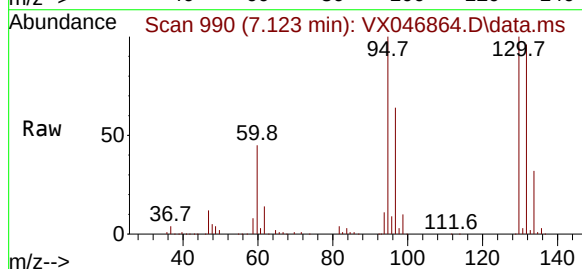
RT: 7.123 min Scan# 990

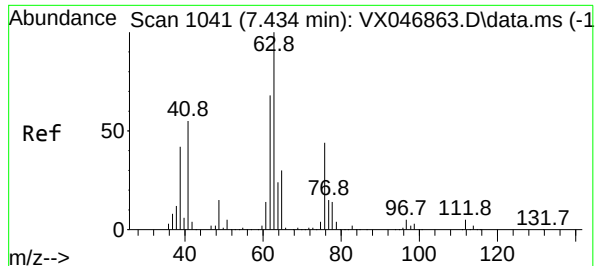
Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Tgt Ion:	130	Resp:	411222
Ion	Ratio	Lower	Upper
130	100		
95	99.6	0.0	194.2





#45

1,2-Dichloropropane

Concen: 98.538 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 40824

Ion Ratio Lower Upper

63 100

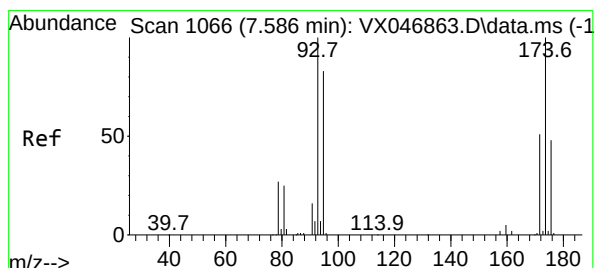
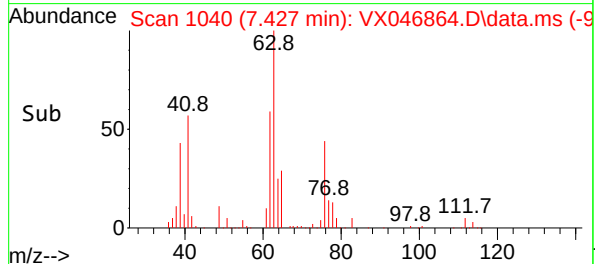
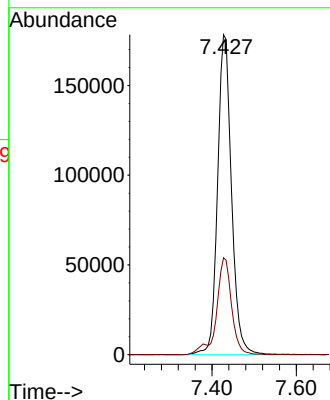
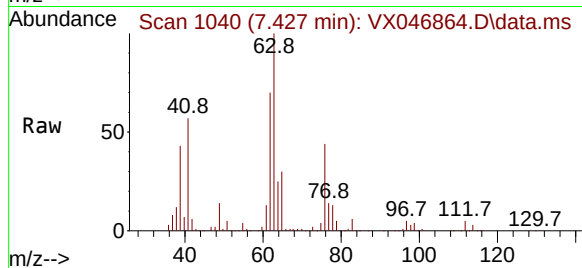
65 30.3 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#46

Dibromomethane

Concen: 97.324 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

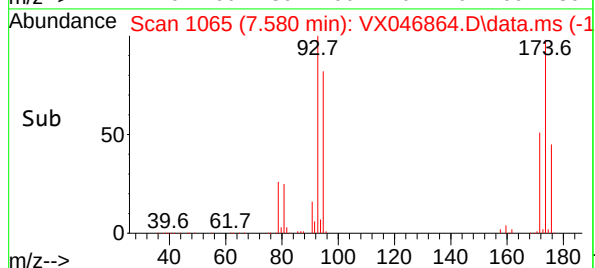
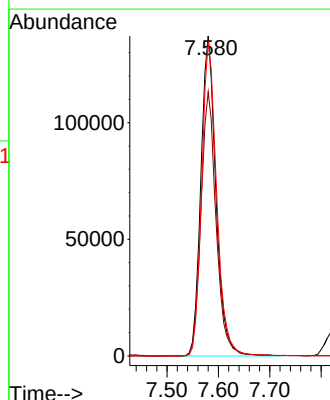
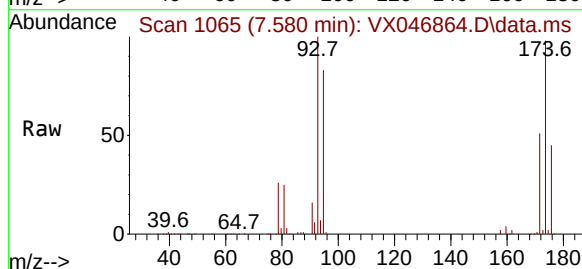
Tgt Ion: 93 Resp: 279372

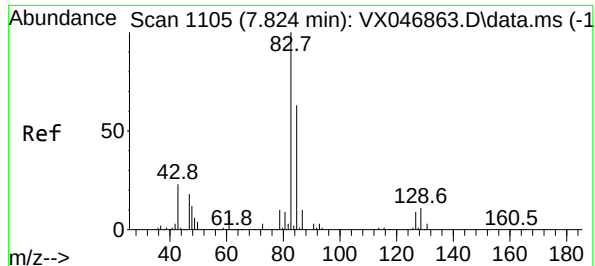
Ion Ratio Lower Upper

93 100

95 82.5 66.6 99.8

174 97.7 77.4 116.2





#47

Bromodichloromethane

Concen: 98.101 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

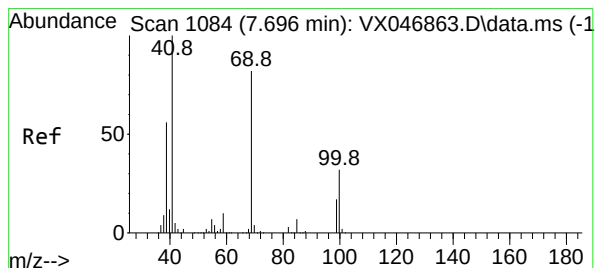
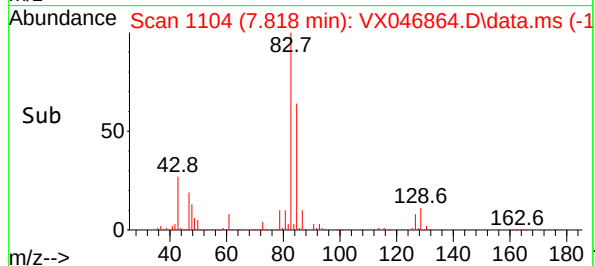
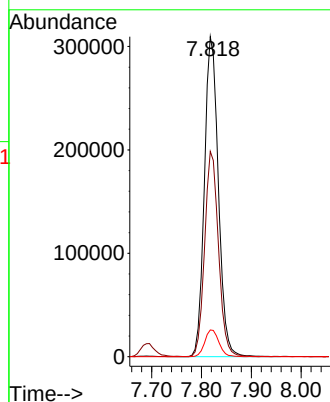
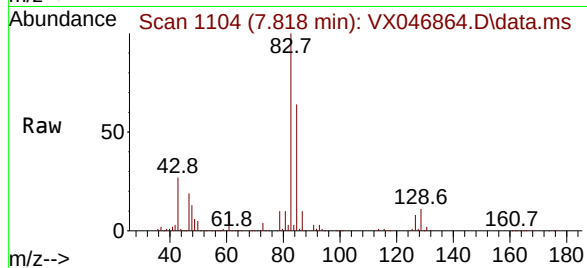
Tgt Ion: 83 Resp: 60129

Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.2	75.4
127	8.4	7.1	10.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#48

Methyl methacrylate

Concen: 106.573 ug/l

RT: 7.690 min Scan# 1083

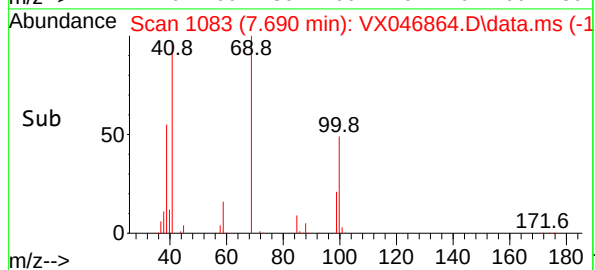
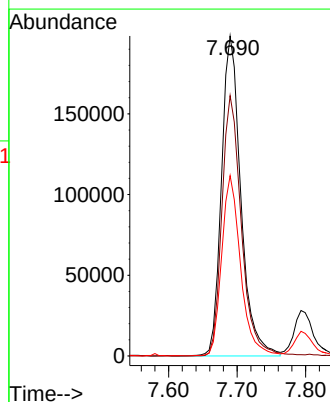
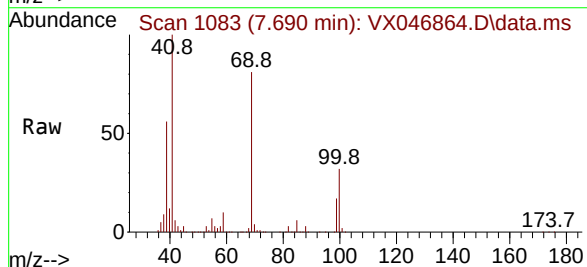
Delta R.T. -0.006 min

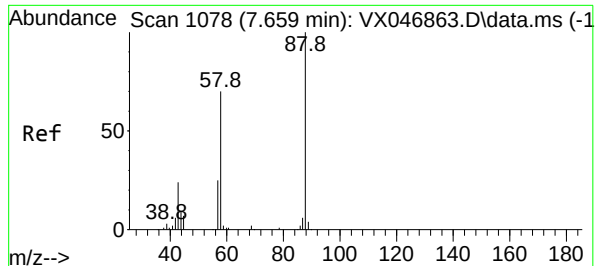
Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Tgt Ion: 41 Resp: 389200

Ion	Ratio	Lower	Upper
41	100		
69	81.9	65.8	98.8
39	55.0	43.8	65.6





#49

1,4-Dioxane

Concen: 1958.872 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. -0.000 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 88 Resp: 82890

Ion Ratio Lower Upper

88 100

43 37.3 31.7 47.5

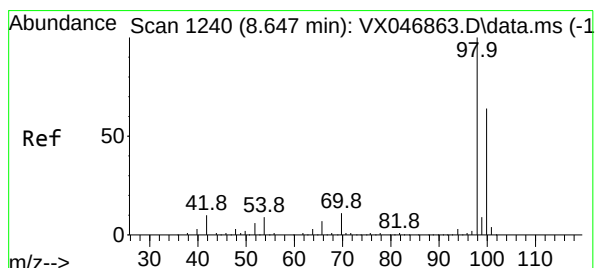
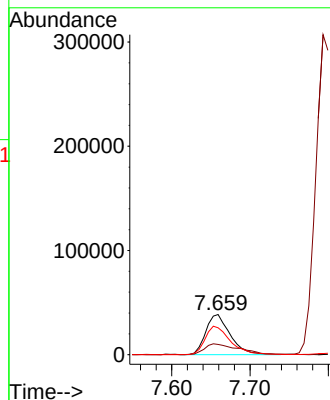
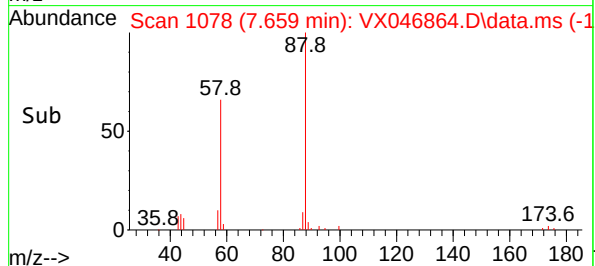
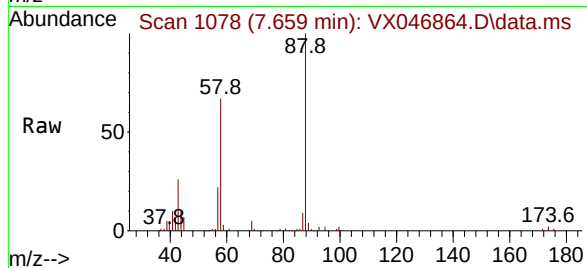
58 73.6 57.5 86.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#50

Toluene-d8

Concen: 96.884 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX046864.D

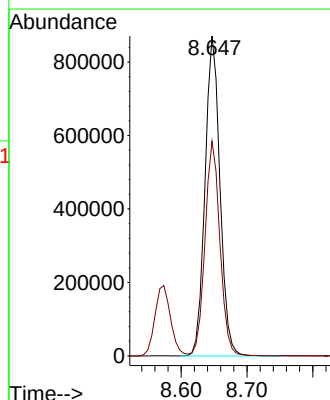
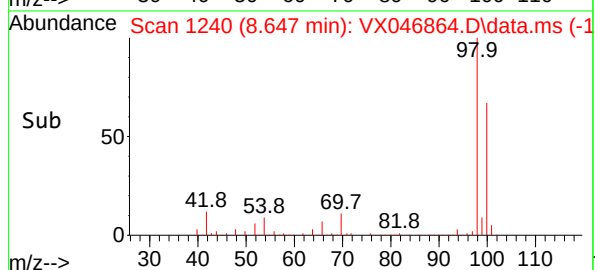
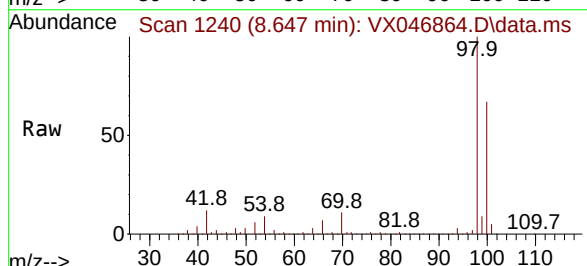
Acq: 02 Jul 2025 14:10

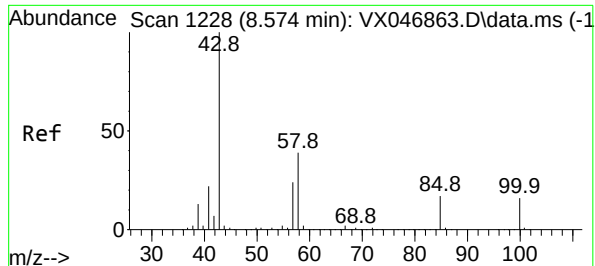
Tgt Ion: 98 Resp: 1373545

Ion Ratio Lower Upper

98 100

100 67.2 53.0 79.6





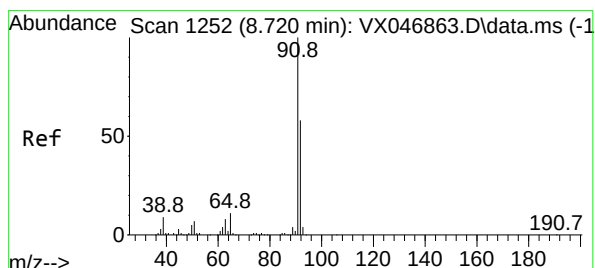
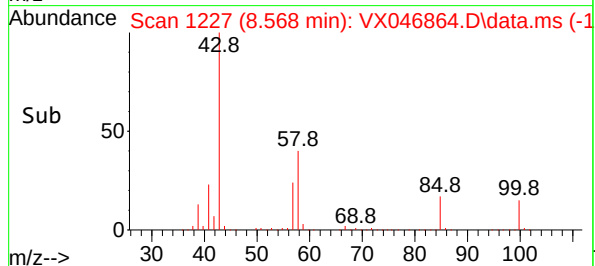
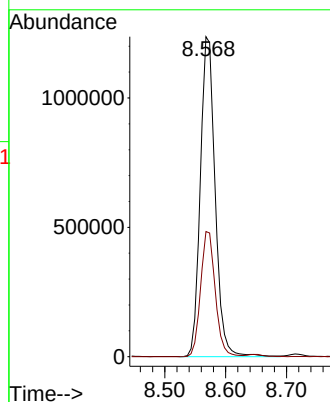
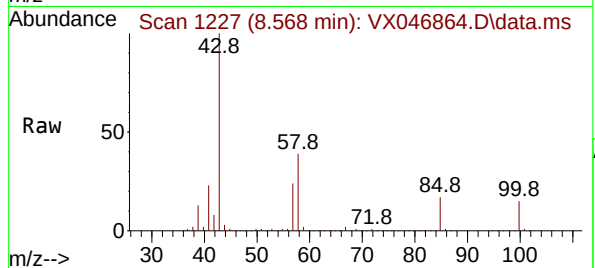
#51
4-Methyl-2-Pentanone
Concen: 500.587 ug/l
RT: 8.568 min Scan# 1227
Delta R.T. -0.006 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 208950
Ion Ratio Lower Upper
43 100
58 38.8 30.4 45.6

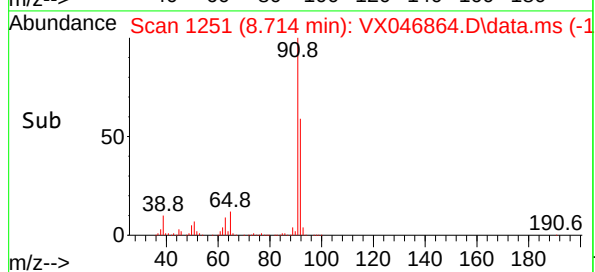
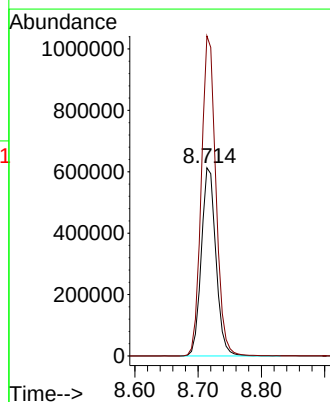
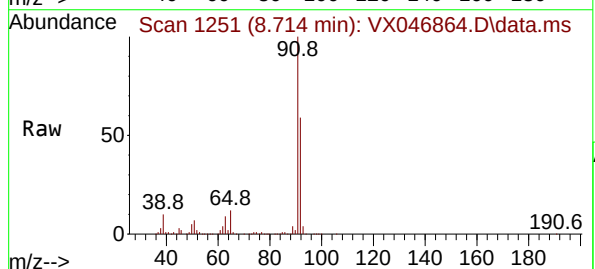
Manual Integrations
APPROVED

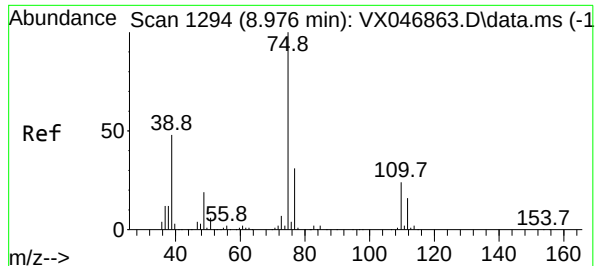
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#52
Toluene
Concen: 96.858 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.006 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Tgt Ion: 92 Resp: 984220
Ion Ratio Lower Upper
92 100
91 170.3 137.9 206.9





#53

t-1,3-Dichloropropene

Concen: 106.052 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 75 Resp: 58011

Ion Ratio Lower Upper

75 100

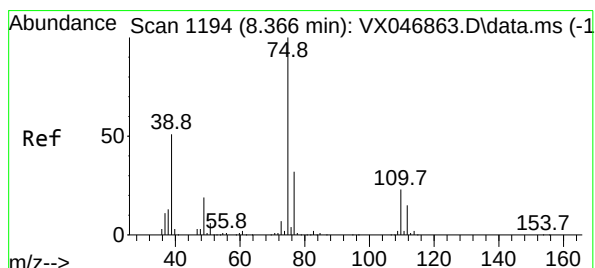
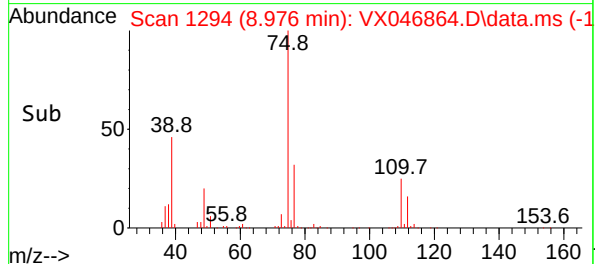
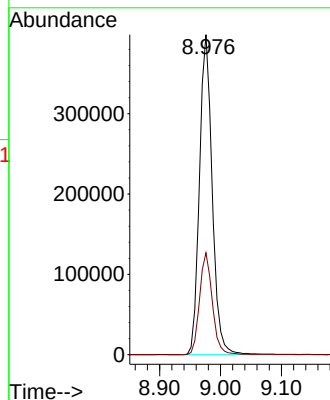
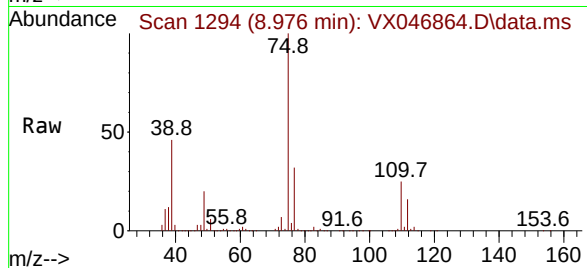
77 31.9 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#54

cis-1,3-Dichloropropene

Concen: 104.190 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

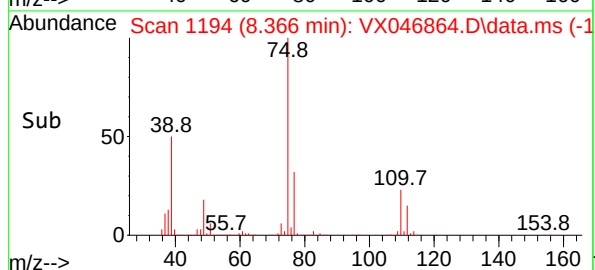
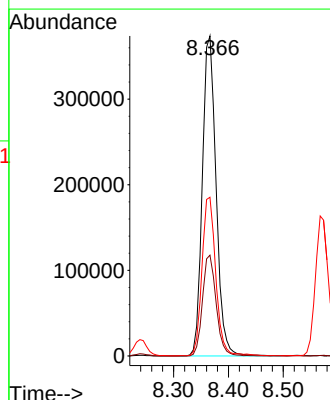
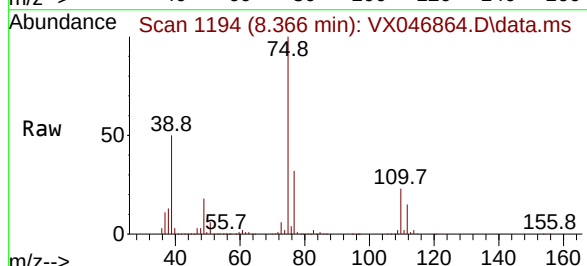
Tgt Ion: 75 Resp: 650539

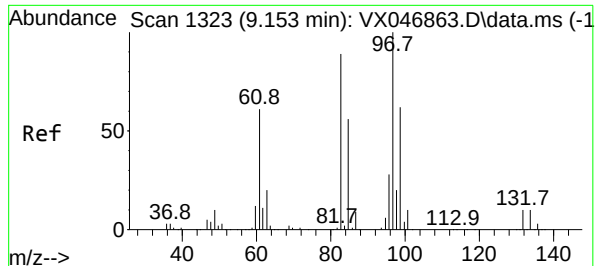
Ion Ratio Lower Upper

75 100

77 31.5 25.4 38.2

39 49.5 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 97.082 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 97 Resp: 36744

Ion Ratio Lower Upper

97 100

83 85.9 70.9 106.3

85 56.4 44.6 67.0

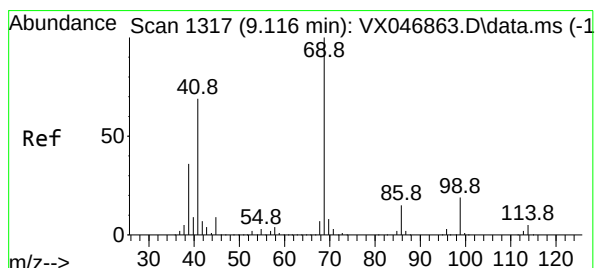
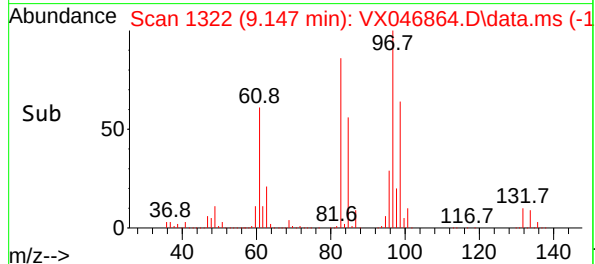
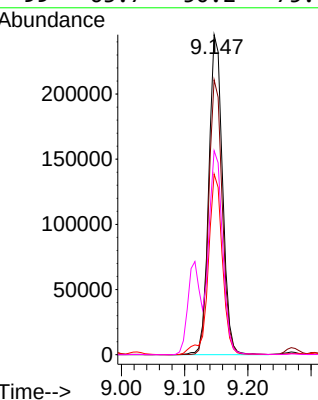
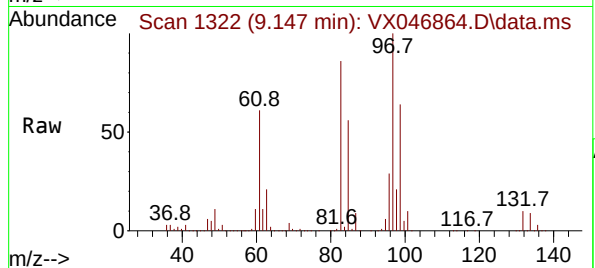
99 63.7 50.2 75.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#56

Ethyl methacrylate

Concen: 105.873 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

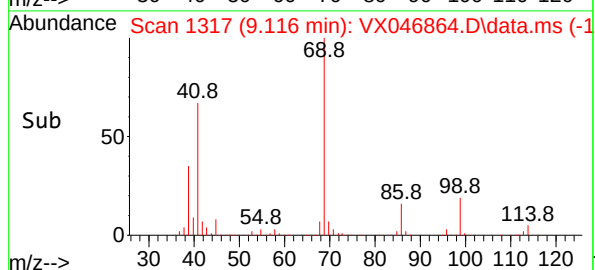
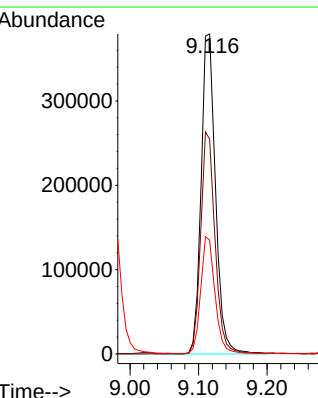
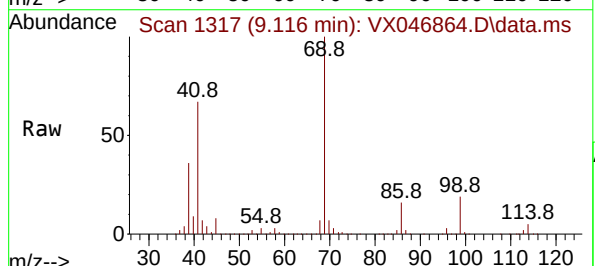
Tgt Ion: 69 Resp: 554620

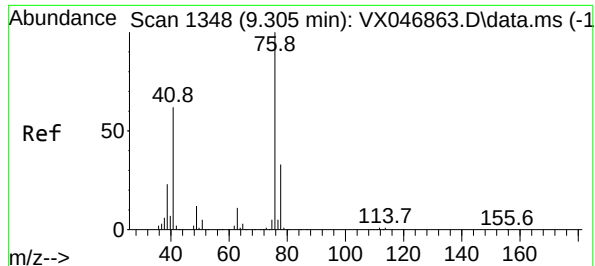
Ion Ratio Lower Upper

69 100

41 69.0 54.6 82.0

39 36.1 28.7 43.1





#57

1,3-Dichloropropane

Concen: 95.933 ug/l

RT: 9.305 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 76 Resp: 625220

Ion Ratio Lower Upper

76 100

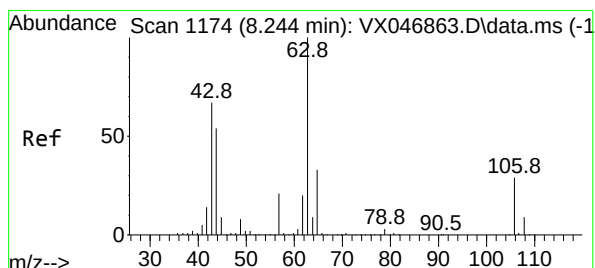
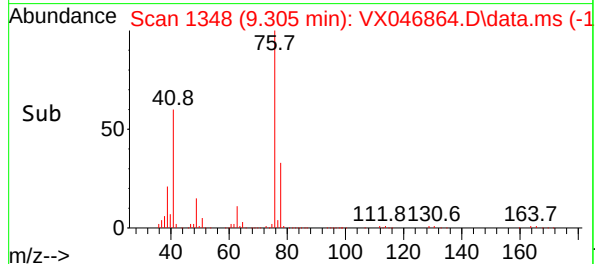
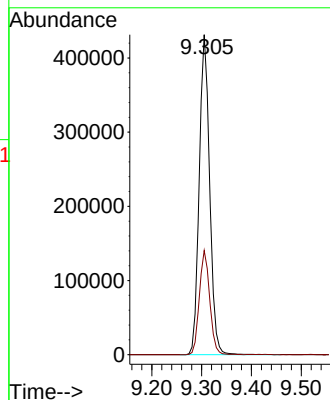
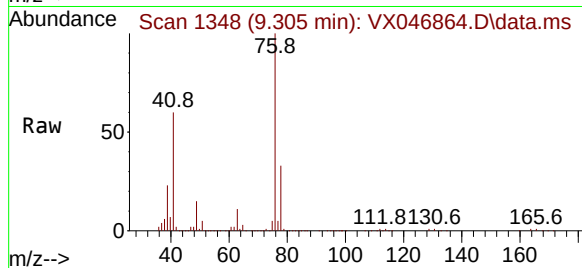
78 32.5 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#58

2-Chloroethyl Vinyl ether

Concen: 522.248 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.006 min

Lab File: VX046864.D

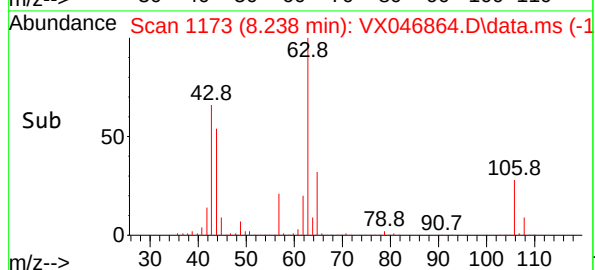
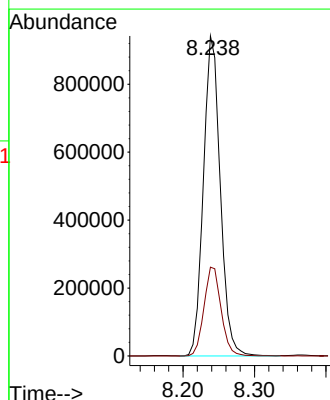
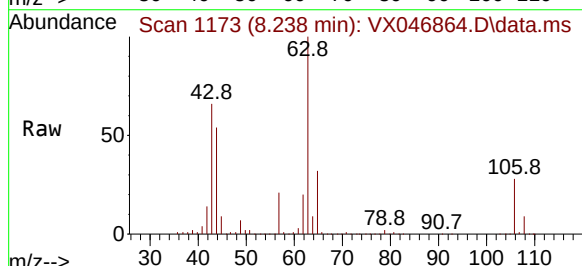
Acq: 02 Jul 2025 14:10

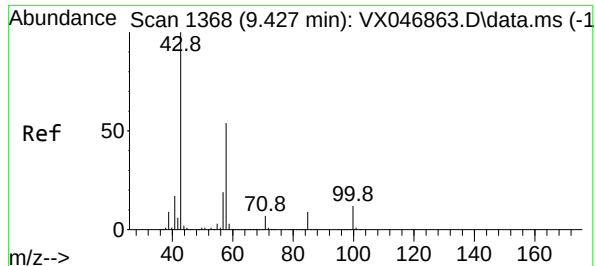
Tgt Ion: 63 Resp: 1541497

Ion Ratio Lower Upper

63 100

106 28.2 22.6 33.8





#59

2-Hexanone

Concen: 508.068 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 140668

Ion Ratio Lower Upper

43 100

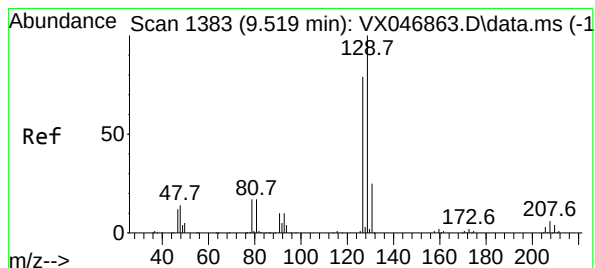
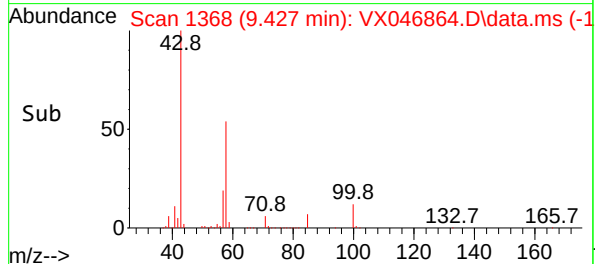
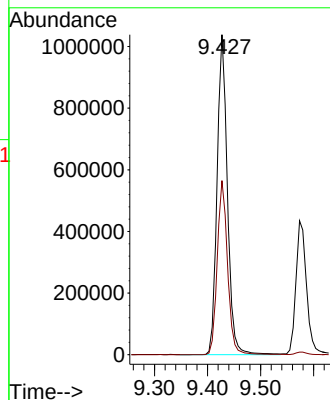
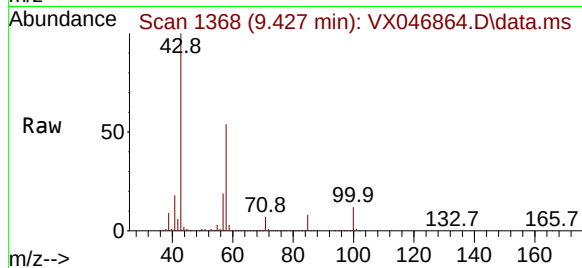
58 54.5 27.1 81.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#60

Dibromochloromethane

Concen: 98.331 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX046864.D

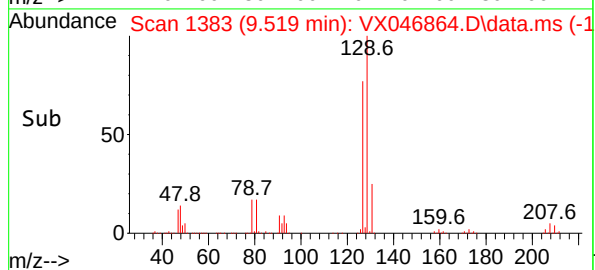
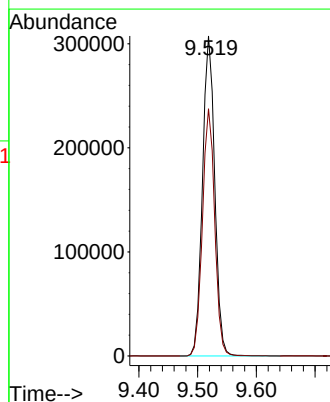
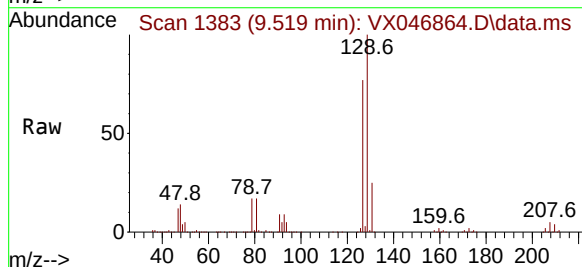
Acq: 02 Jul 2025 14:10

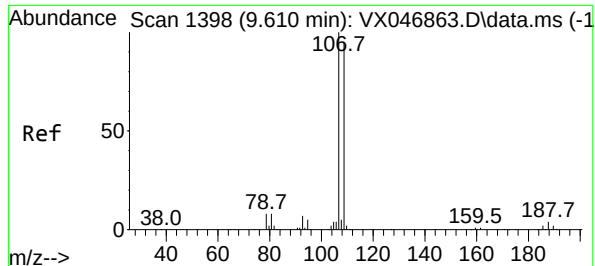
Tgt Ion:129 Resp: 445393

Ion Ratio Lower Upper

129 100

127 77.5 39.1 117.5





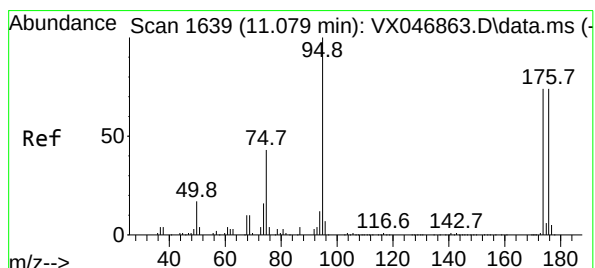
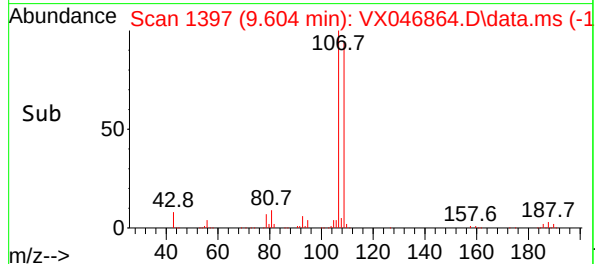
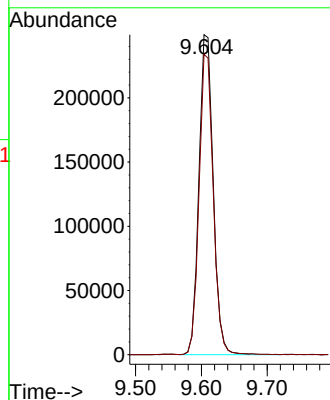
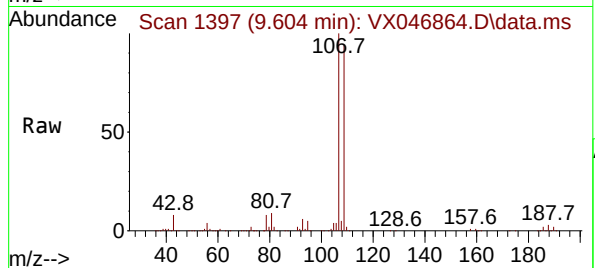
#61
1,2-Dibromoethane
Concen: 98.827 ug/l
RT: 9.604 min Scan# 1398
Delta R.T. -0.006 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 37566
Ion Ratio Lower Upper
107 100
109 93.5 75.4 113.2

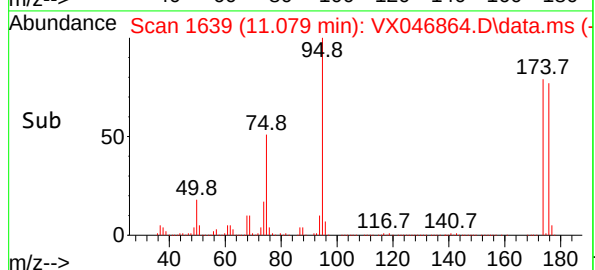
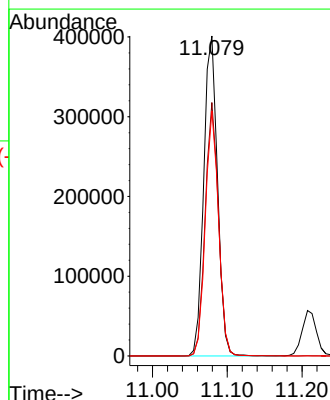
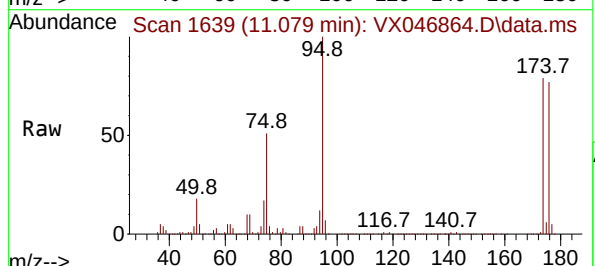
Manual Integrations
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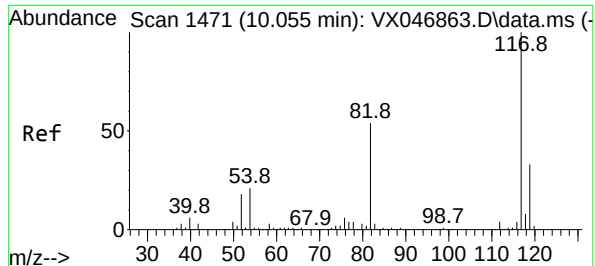
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#62
4-Bromofluorobenzene
Concen: 95.251 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Tgt Ion: 95 Resp: 513224
Ion Ratio Lower Upper
95 100
174 76.4 0.0 152.0
176 73.7 0.0 145.2





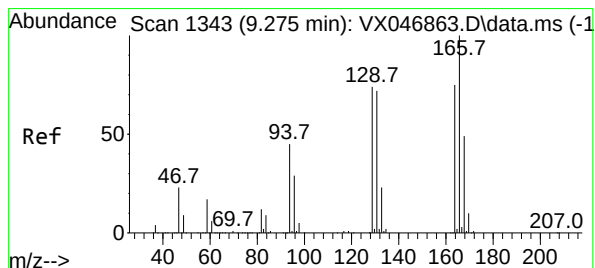
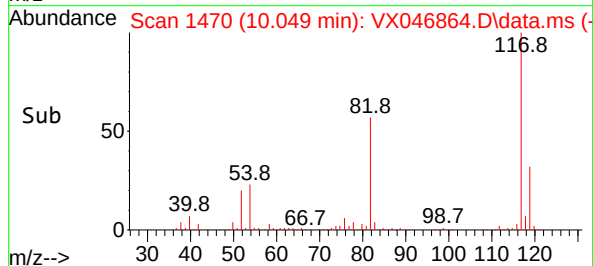
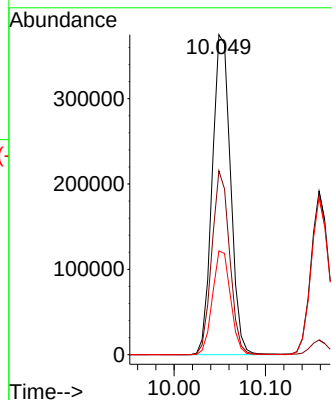
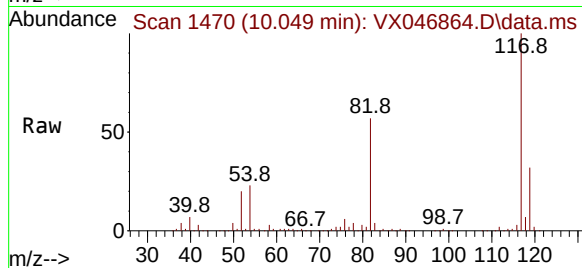
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.006 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 521464
Ion Ratio Lower Upper
117 100
82 57.4 43.3 64.9
119 32.4 26.4 39.6

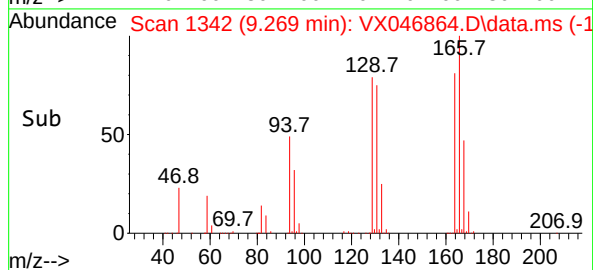
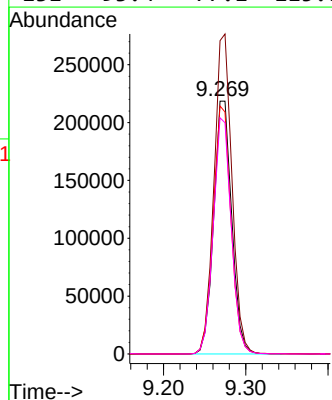
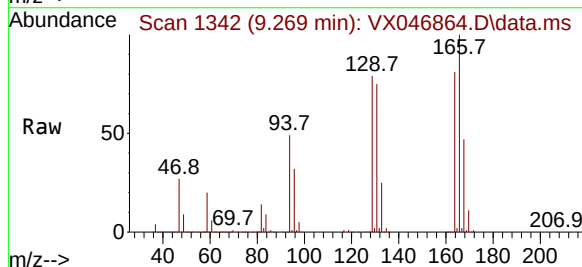
Manual Integrations
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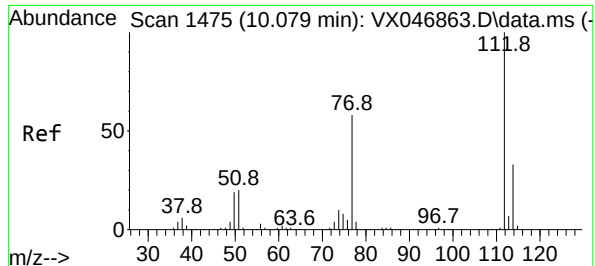
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#64
Tetrachloroethene
Concen: 95.978 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.006 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Tgt Ion:164 Resp: 333229
Ion Ratio Lower Upper
164 100
166 123.9 107.0 160.6
129 98.1 79.7 119.5
131 93.4 77.1 115.7





#65

Chlorobenzene

Concen: 97.200 ug/l

RT: 10.073 min Scan# 1475

Delta R.T. -0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:112 Resp: 109585

Ion Ratio Lower Upper

112 100

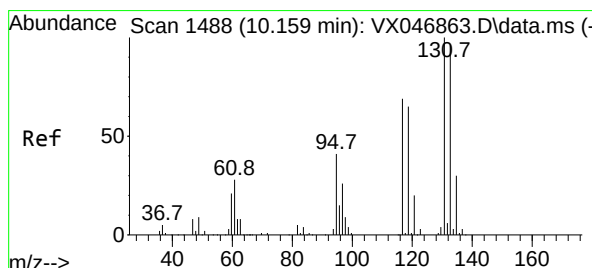
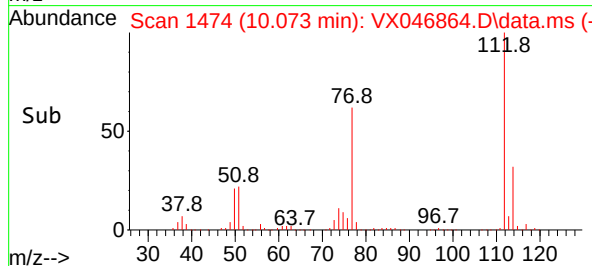
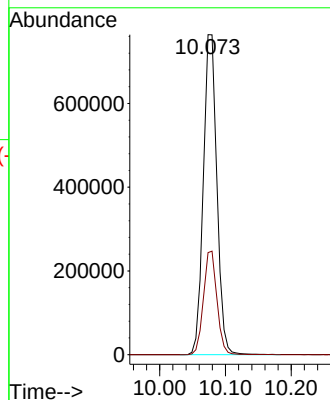
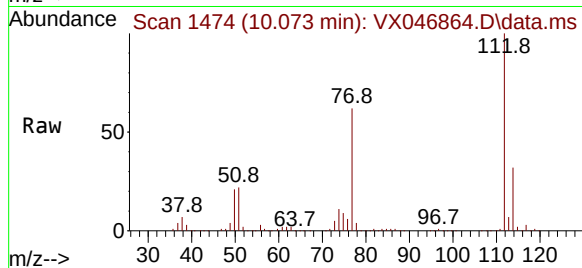
114 31.9 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 100.632 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. -0.000 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

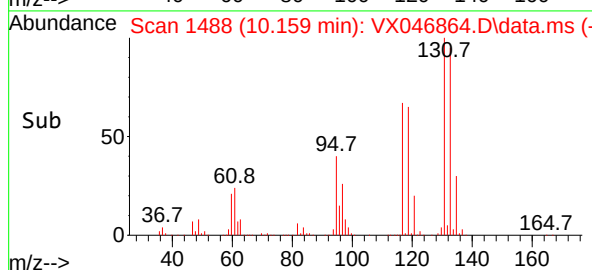
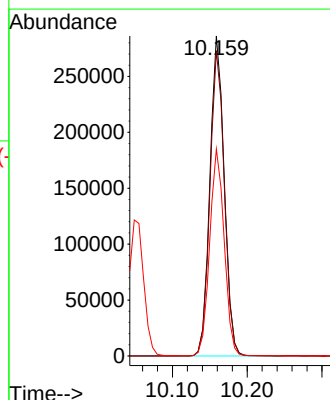
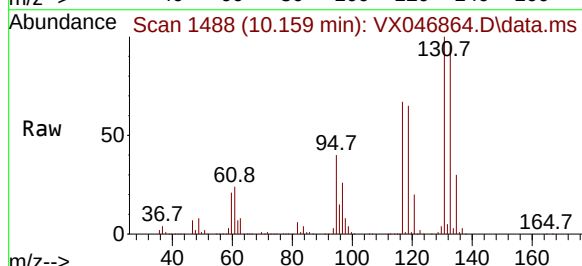
Tgt Ion:131 Resp: 381396

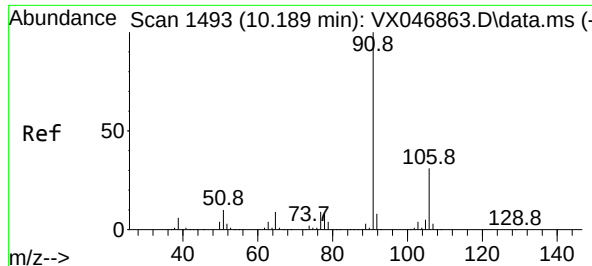
Ion Ratio Lower Upper

131 100

133 95.8 47.6 142.9

119 65.4 32.4 97.2





#67

Ethyl Benzene

Concen: 99.720 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 1925349

Ion Ratio Lower Upper

91 100

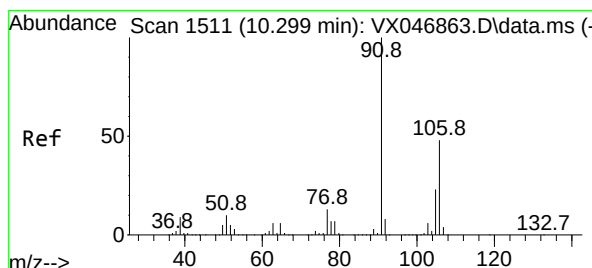
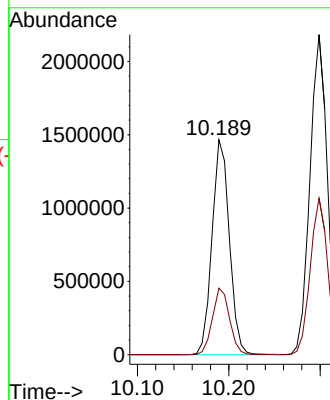
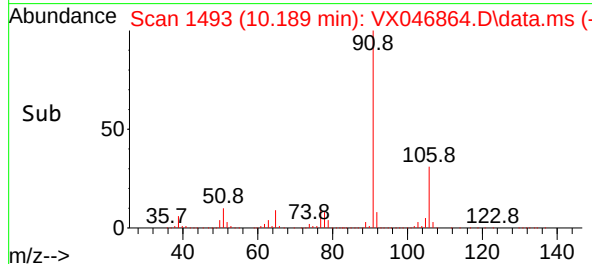
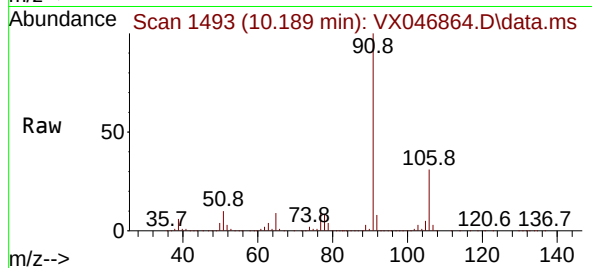
106 30.9 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#68

m/p-Xylenes

Concen: 195.851 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX046864.D

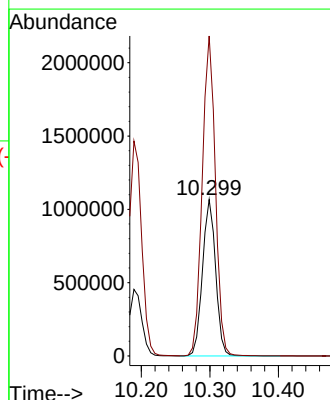
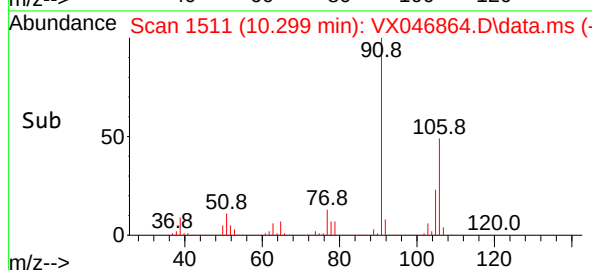
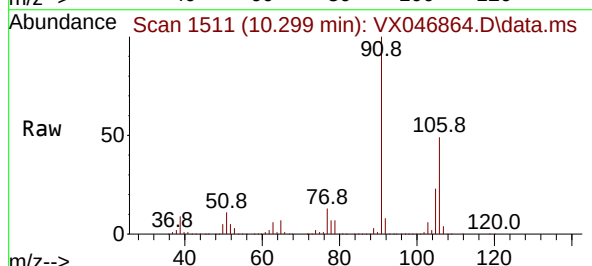
Acq: 02 Jul 2025 14:10

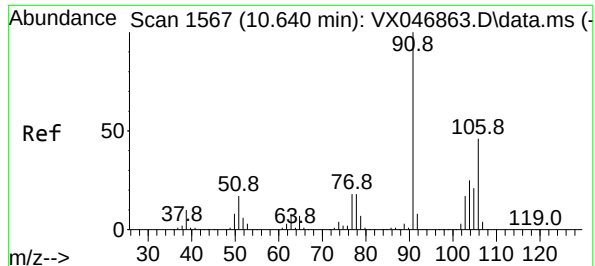
Tgt Ion:106 Resp: 1424898

Ion Ratio Lower Upper

106 100

91 204.9 164.6 246.8





#69

o-Xylene

Concen: 98.448 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:106 Resp: 691874

Ion Ratio Lower Upper

106 100

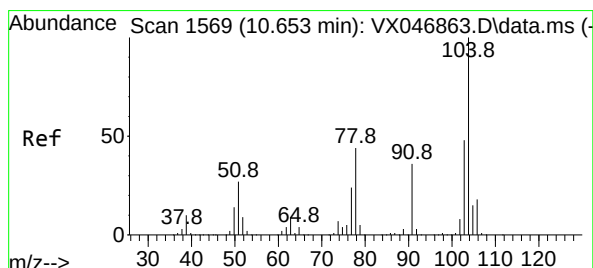
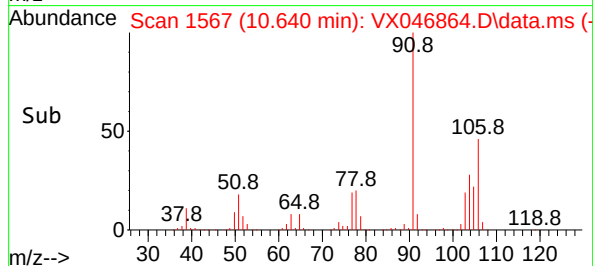
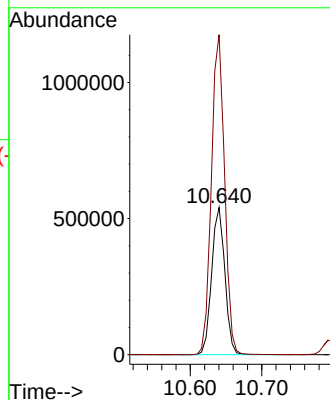
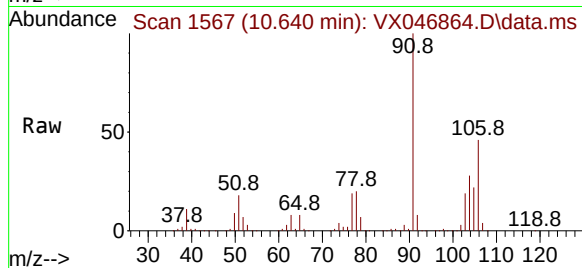
91 217.8 109.5 328.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#70

Styrene

Concen: 100.381 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

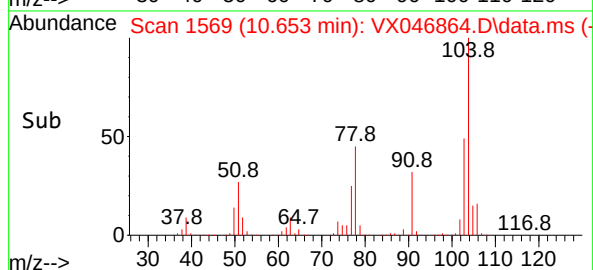
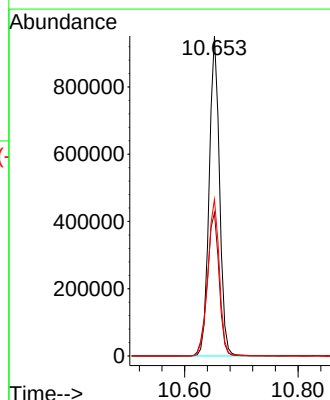
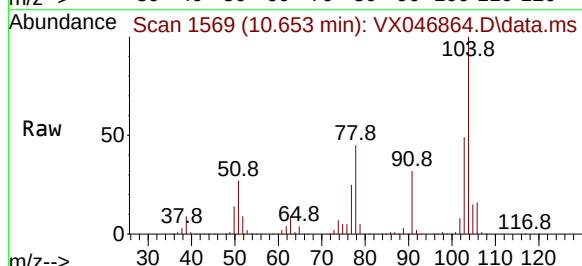
Tgt Ion:104 Resp: 1206962

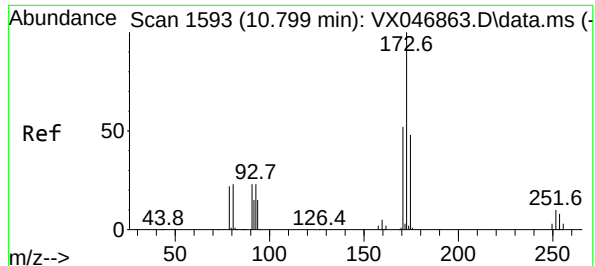
Ion Ratio Lower Upper

104 100

78 50.8 40.3 60.5

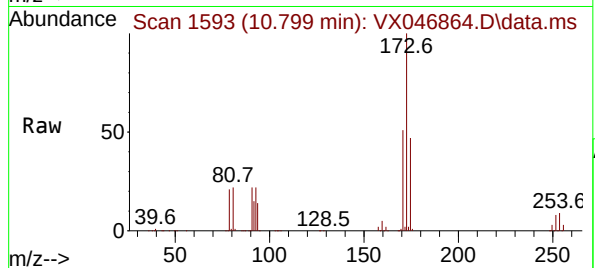
103 54.1 42.8 64.2





#71
Bromoform
Concen: 101.623 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

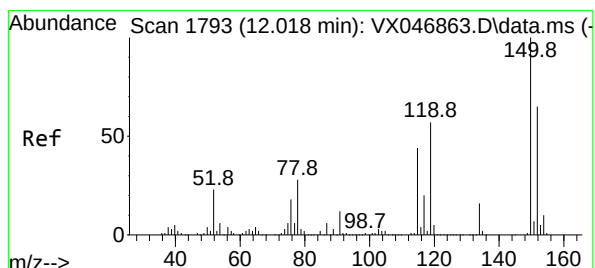
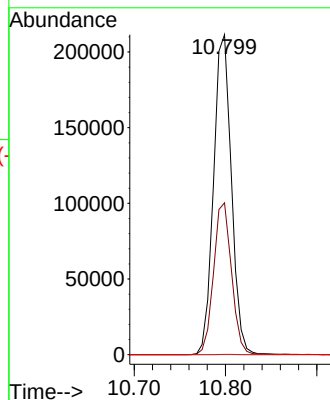
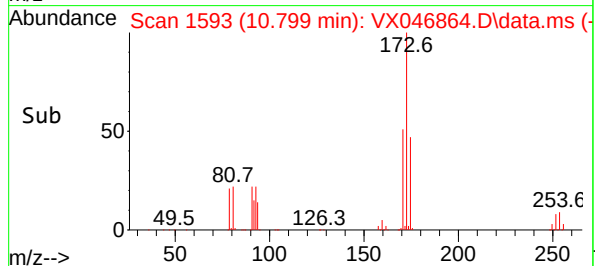
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:173 Resp: 286378
Ion Ratio Lower Upper
173 100
175 48.0 23.8 71.5
254 0.1 0.1 0.1

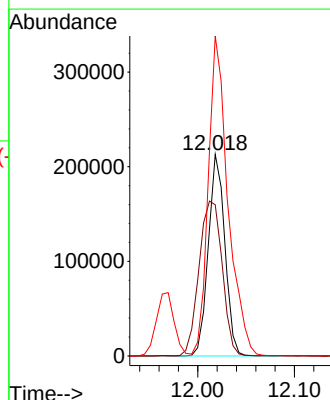
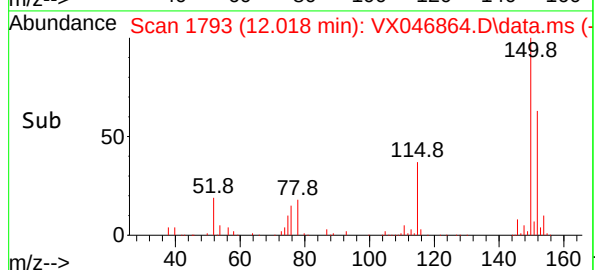
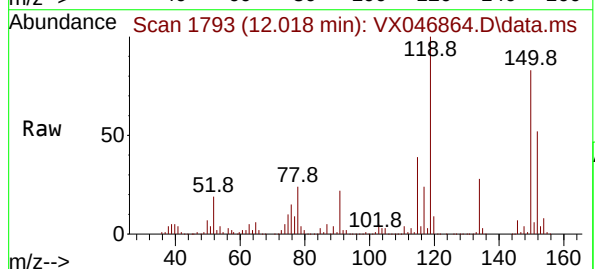
Manual Integrations
APPROVED

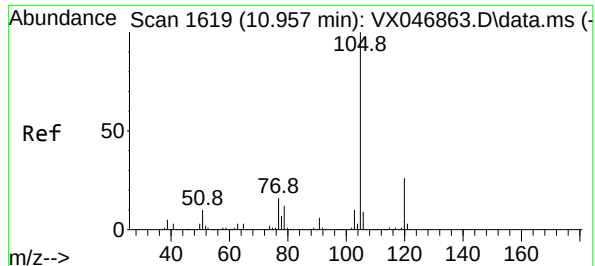
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

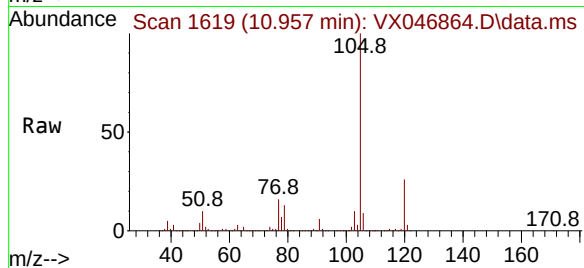
Tgt Ion:152 Resp: 253960
Ion Ratio Lower Upper
152 100
115 107.5 42.4 127.1
150 188.9 0.0 349.2





#73
Isopropylbenzene
Concen: 102.183 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

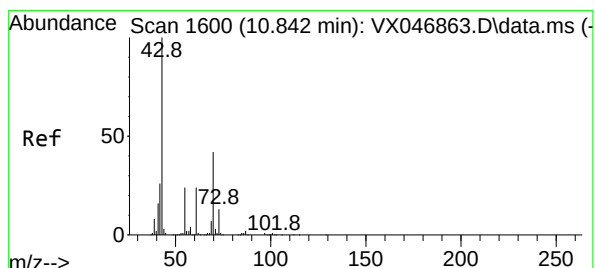
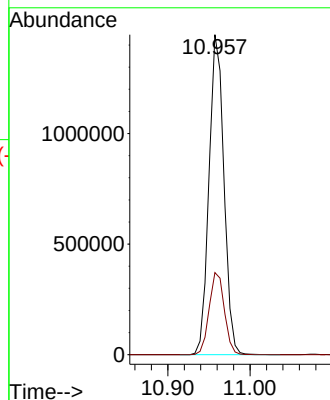
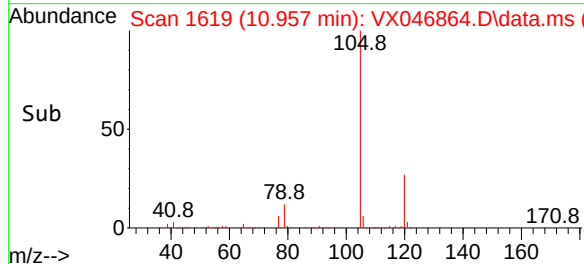
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:105 Resp: 182424
Ion Ratio Lower Upper
105 100
120 26.1 13.2 39.5

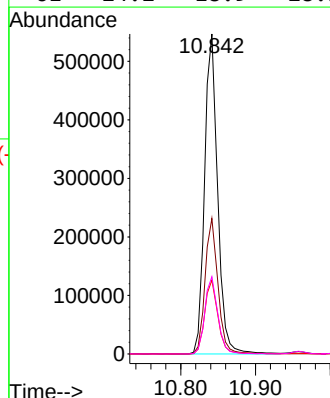
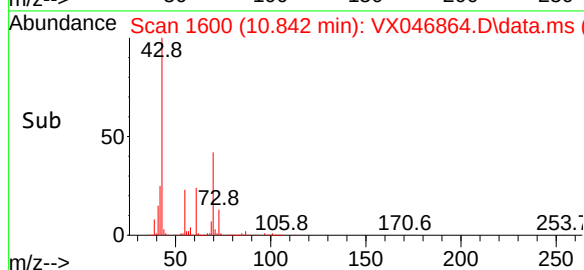
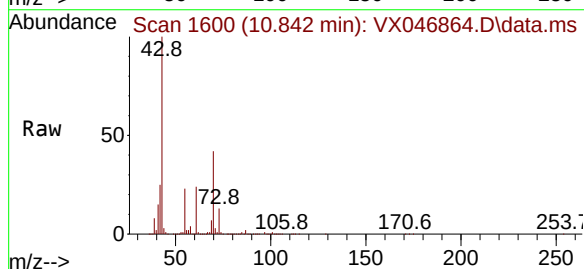
Manual Integrations
APPROVED

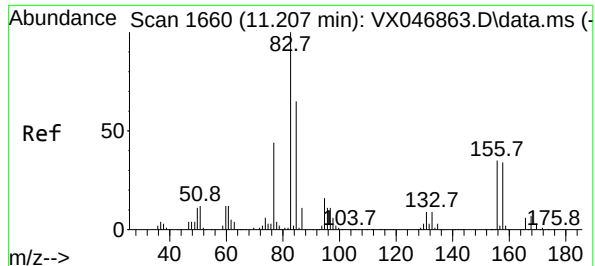
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#74
N-ethyl acetate
Concen: 109.100 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Tgt Ion: 43 Resp: 661864
Ion Ratio Lower Upper
43 100
70 42.1 33.4 50.2
55 23.5 19.6 29.4
61 24.2 18.9 28.3





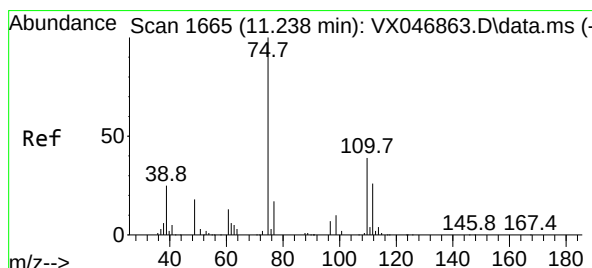
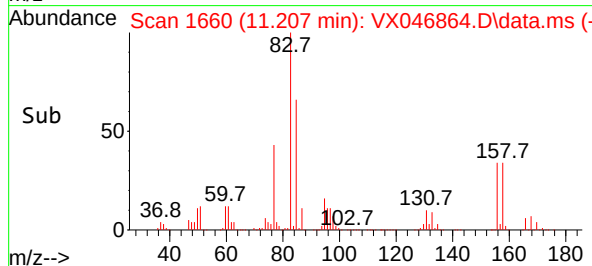
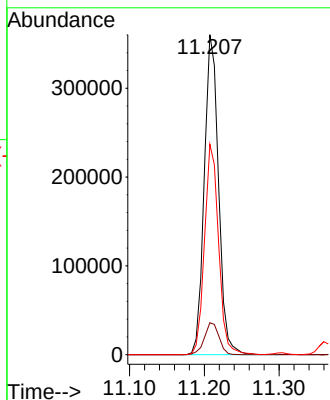
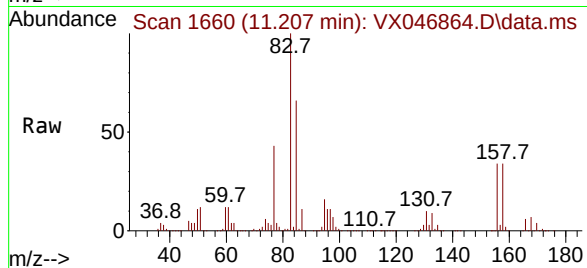
#75
1,1,2,2-Tetrachloroethane
Concen: 97.192 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 47711
Ion Ratio Lower Upper
83 100
131 10.2 5.0 14.9
85 65.0 32.1 96.5

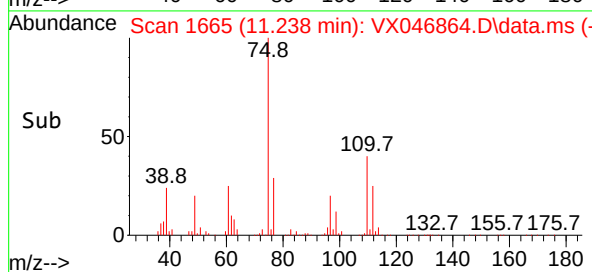
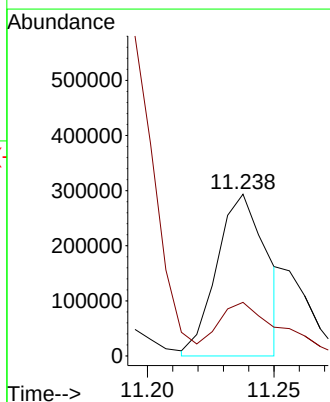
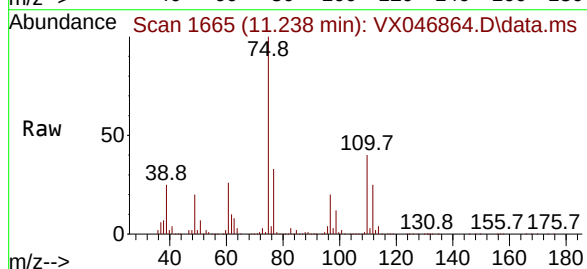
Manual Integrations
APPROVED

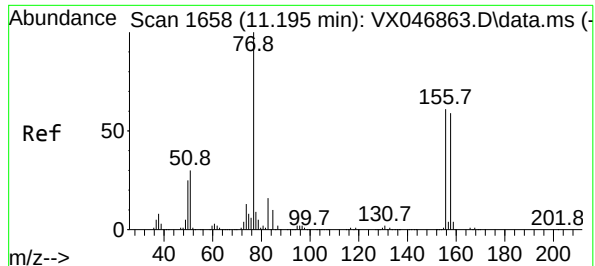
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#76
1,2,3-Trichloropropane
Concen: 102.378 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

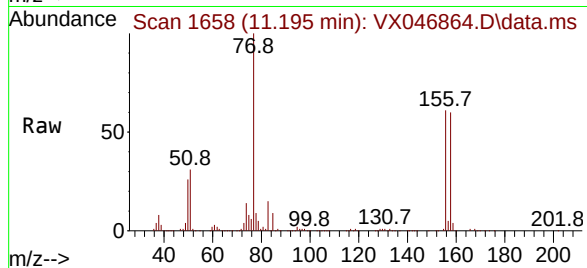
Tgt Ion: 75 Resp: 401735
Ion Ratio Lower Upper
75 100
77 42.1 20.6 61.8





#77
Bromobenzene
Concen: 99.388 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

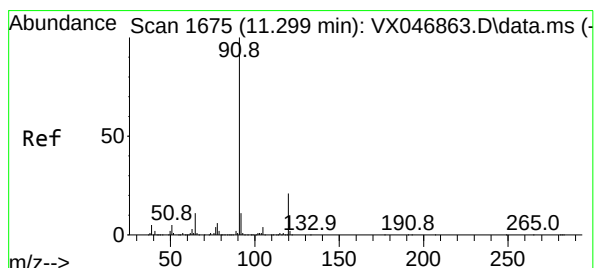
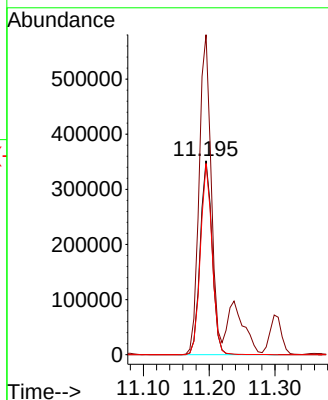
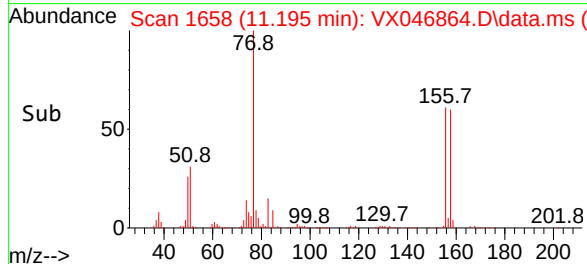
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:156 Resp: 441962
Ion Ratio Lower Upper
156 100
77 166.8 82.3 247.0
158 96.8 47.5 142.6

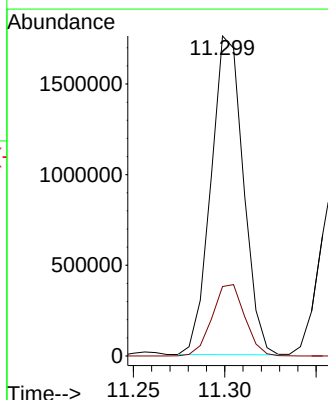
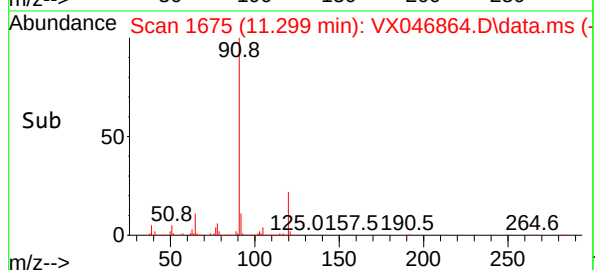
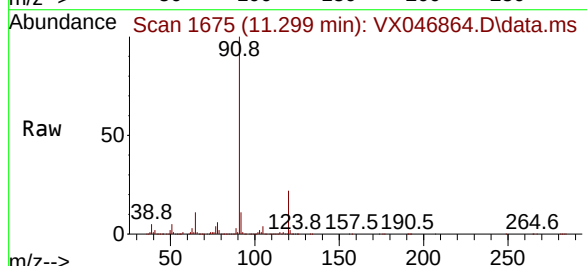
Manual Integrations
APPROVED

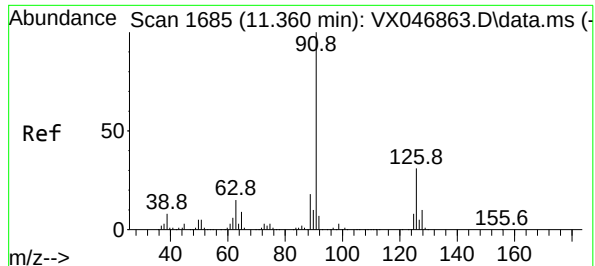
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#78
n-propylbenzene
Concen: 100.767 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Tgt Ion: 91 Resp: 2169188
Ion Ratio Lower Upper
91 100
120 22.7 11.2 33.5





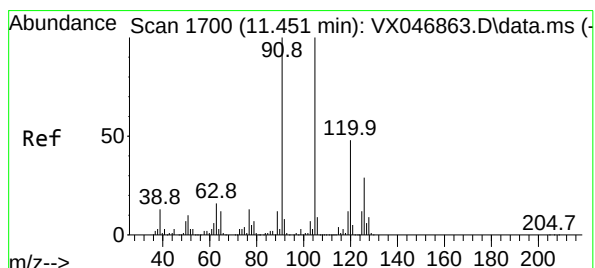
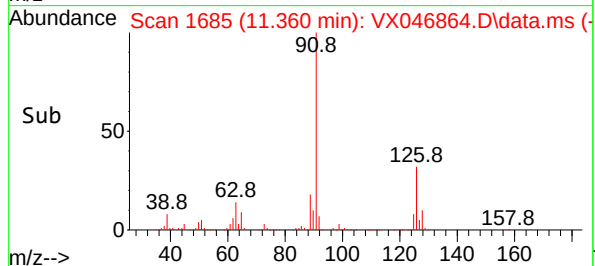
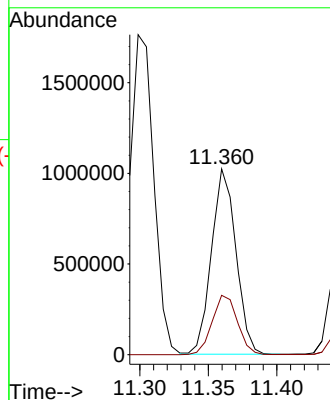
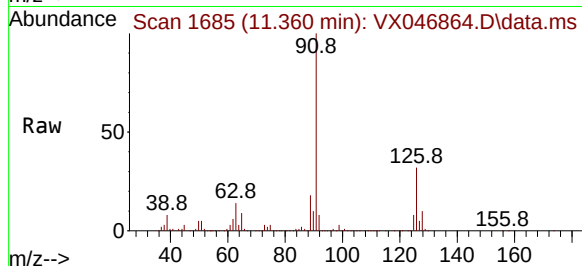
#79
2-Chlorotoluene
Concen: 99.822 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 91 Resp: 1268825
Ion Ratio Lower Upper
91 100
126 33.2 16.6 49.8

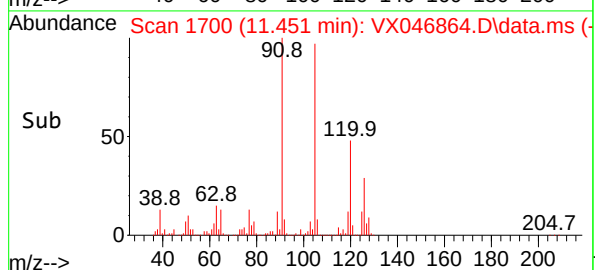
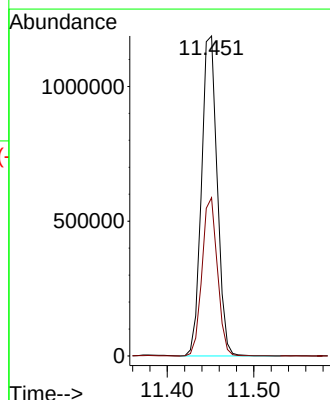
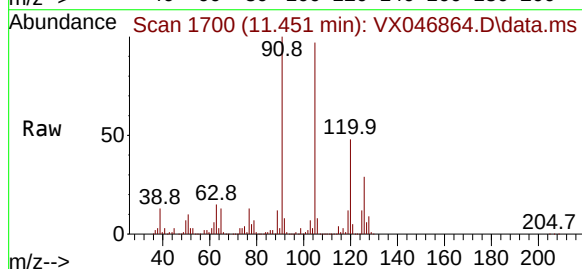
Manual Integrations
APPROVED

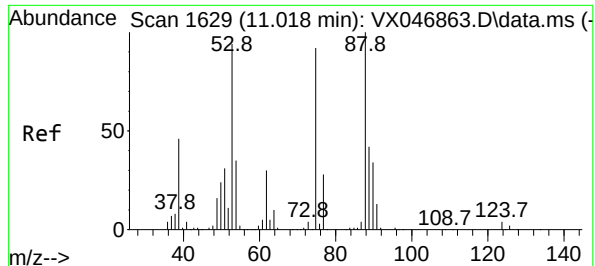
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#80
1,3,5-Trimethylbenzene
Concen: 103.204 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Tgt Ion:105 Resp: 1497082
Ion Ratio Lower Upper
105 100
120 48.4 24.1 72.4





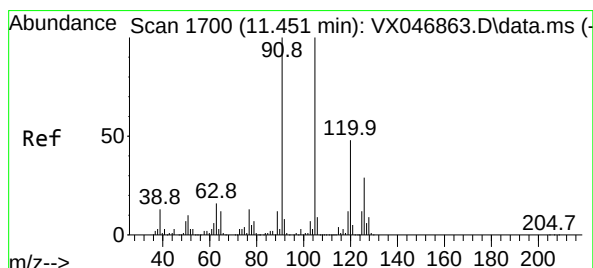
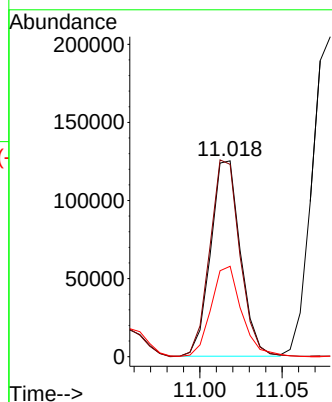
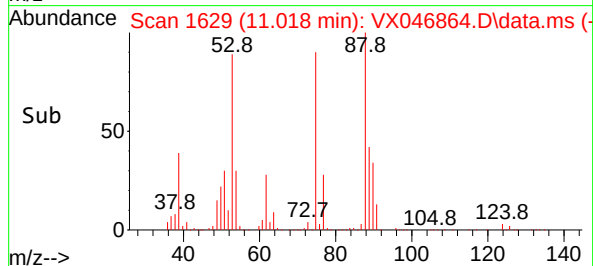
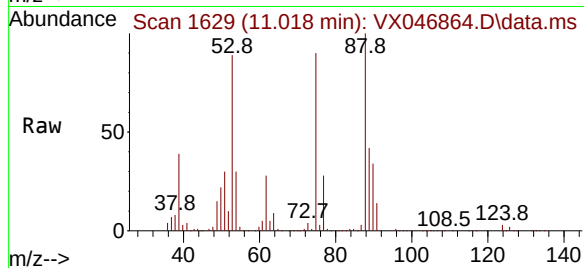
#81
trans-1,4-Dichloro-2-butene
Concen: 108.273 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 158320
Ion Ratio Lower Upper
75 100
53 101.6 83.7 125.5
89 47.4 38.2 57.2

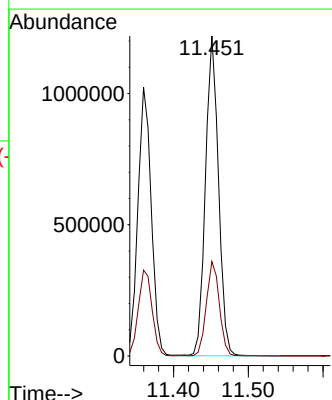
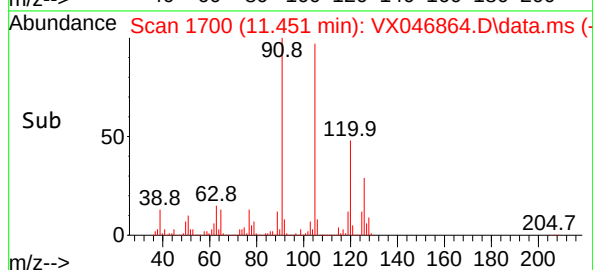
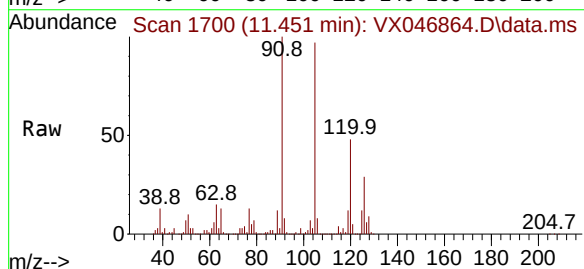
Manual Integrations
APPROVED

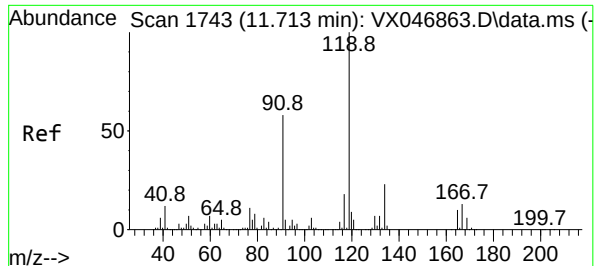
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#82
4-Chlorotoluene
Concen: 100.402 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Tgt Ion: 91 Resp: 1472712
Ion Ratio Lower Upper
91 100
126 29.5 14.6 44.0





#83

tert-Butylbenzene

Concen: 102.751 ug/l

RT: 11.713 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:119 Resp: 1539450

Ion Ratio Lower Upper

119 100

91 57.3 28.7 86.3

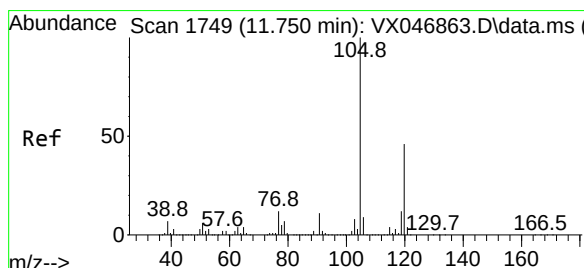
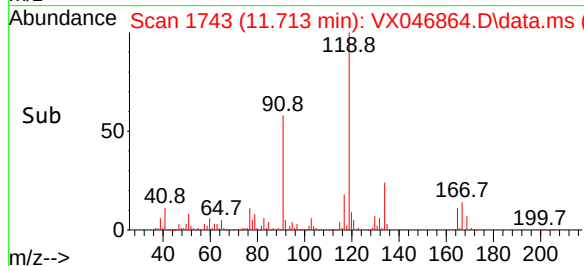
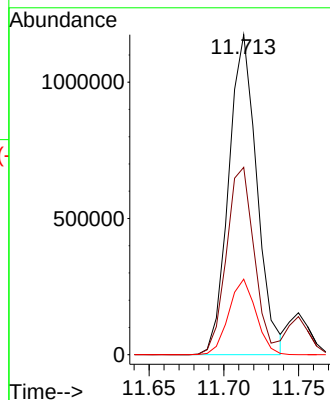
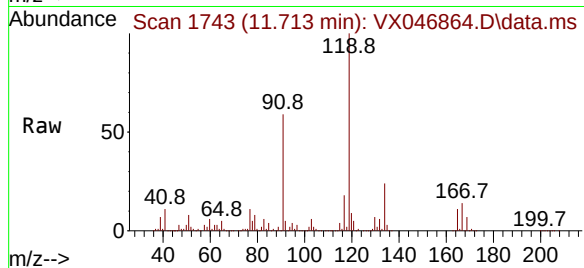
134 22.8 11.4 34.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#84

1,2,4-Trimethylbenzene

Concen: 101.492 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX046864.D

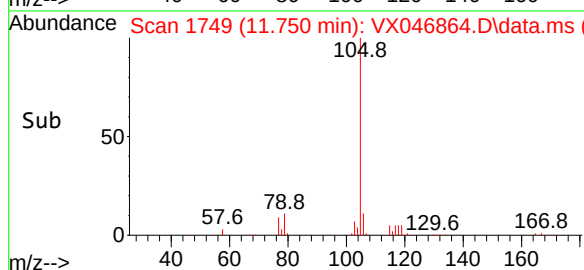
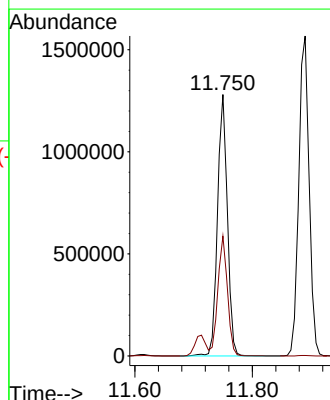
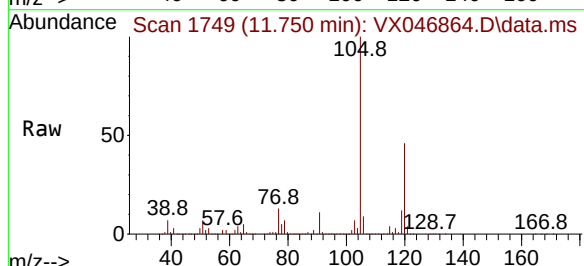
Acq: 02 Jul 2025 14:10

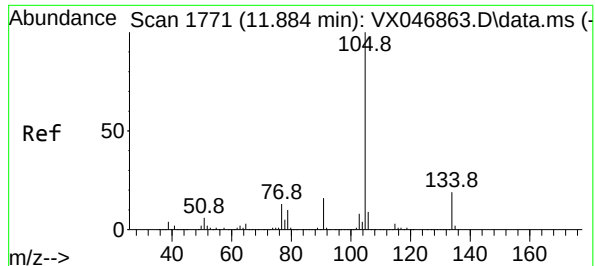
Tgt Ion:105 Resp: 1488102

Ion Ratio Lower Upper

105 100

120 44.8 23.3 69.8





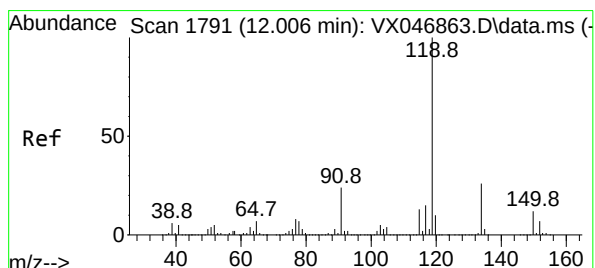
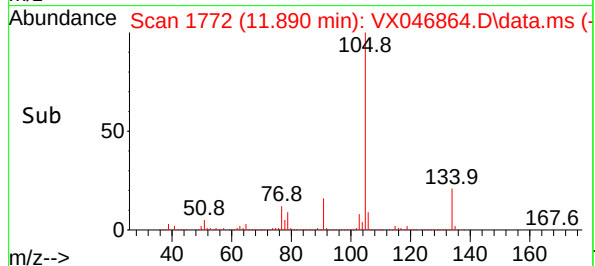
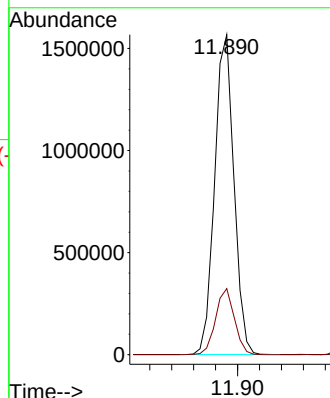
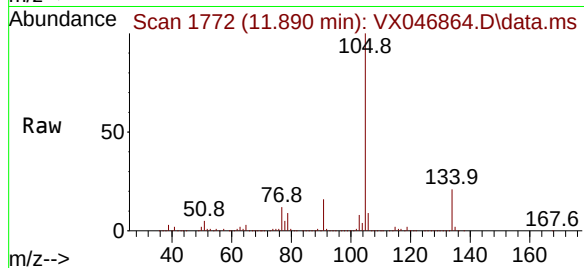
#85
sec-Butylbenzene
Concen: 101.251 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.006 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 191263
Ion Ratio Lower Upper
105 100
134 20.2 9.9 29.7

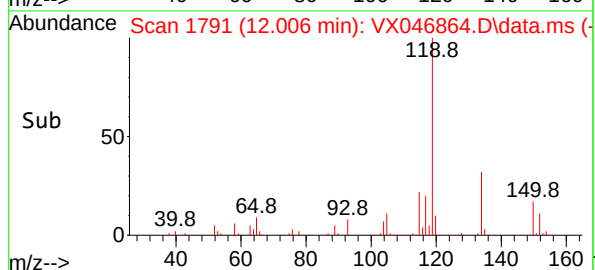
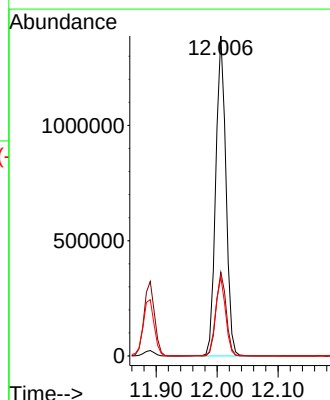
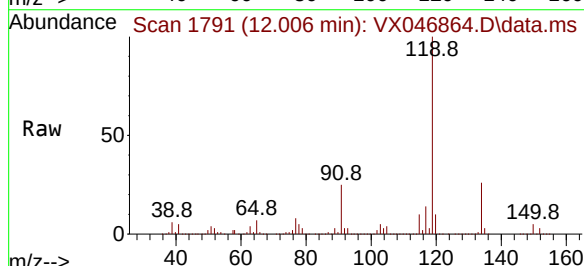
Manual Integrations
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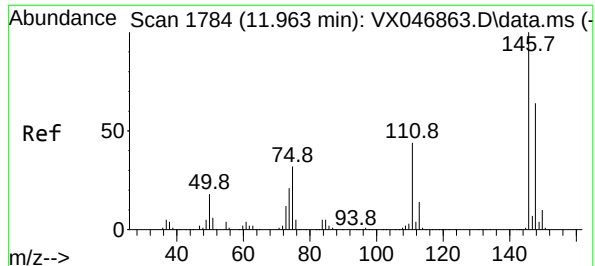
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#86
p-Isopropyltoluene
Concen: 101.466 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Tgt Ion:119 Resp: 1605082
Ion Ratio Lower Upper
119 100
134 26.1 13.0 39.0
91 24.3 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 99.260 ug/l

RT: 11.963 min Scan# 1784

Delta R.T. -0.000 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 825509

Ion Ratio Lower Upper

146 100

111 41.3 20.5 61.6

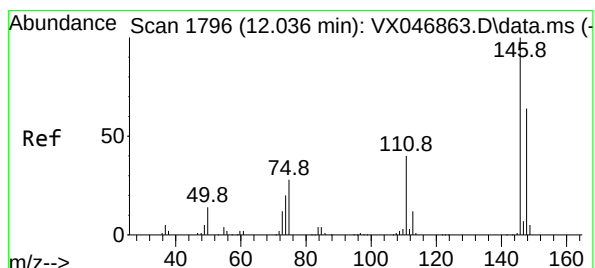
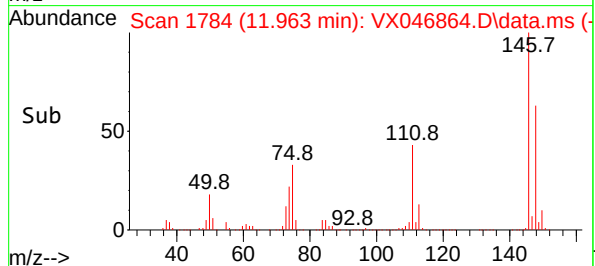
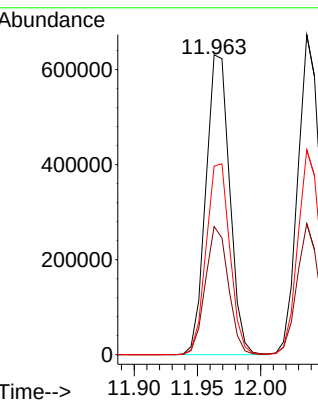
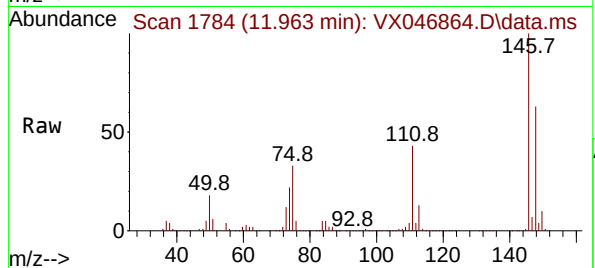
148 63.5 31.4 94.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#88

1,4-Dichlorobenzene

Concen: 95.192 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. -0.000 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

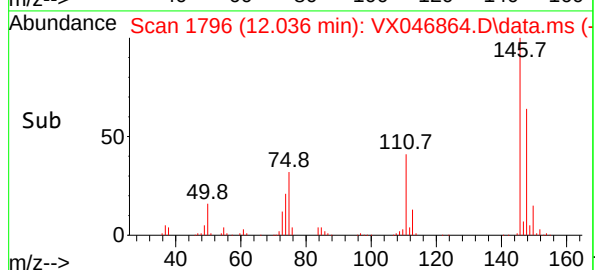
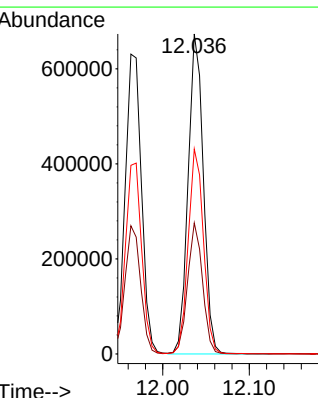
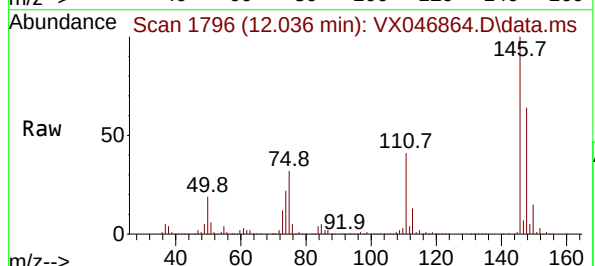
Tgt Ion:146 Resp: 823926

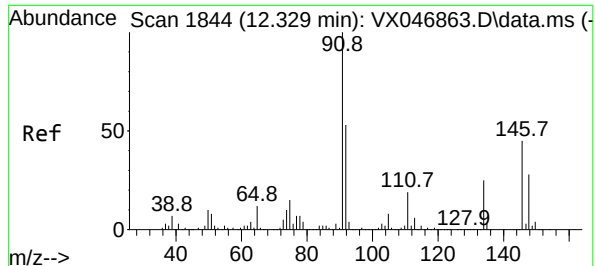
Ion Ratio Lower Upper

146 100

111 40.3 20.2 60.5

148 64.2 32.4 97.0





#89

n-Butylbenzene

Concen: 101.944 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 151525

Ion Ratio Lower Upper

91 100

92 54.5 27.0 81.0

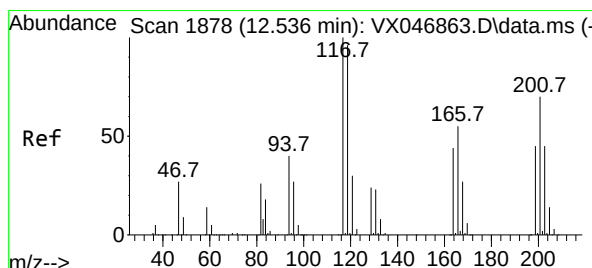
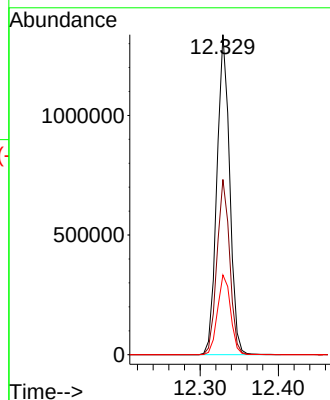
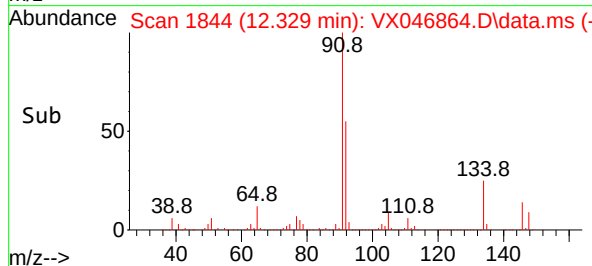
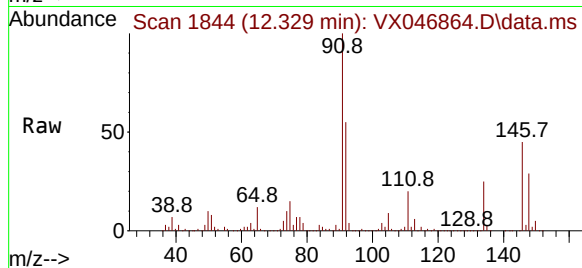
134 25.6 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#90

Hexachloroethane

Concen: 105.182 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX046864.D

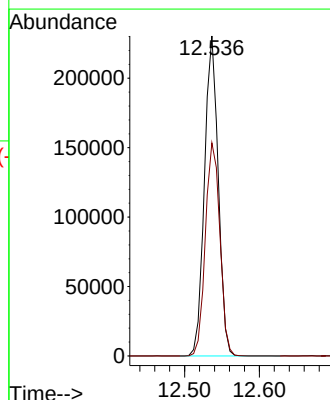
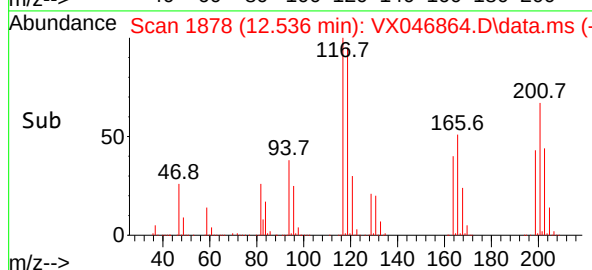
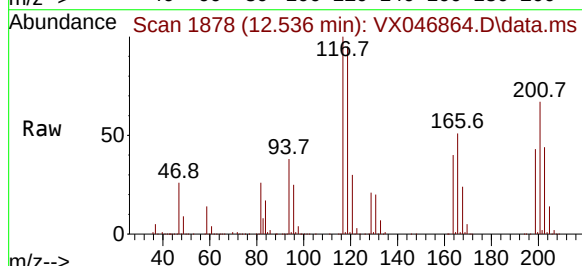
Acq: 02 Jul 2025 14:10

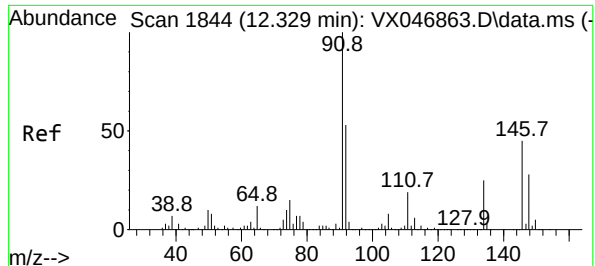
Tgt Ion:117 Resp: 294961

Ion Ratio Lower Upper

117 100

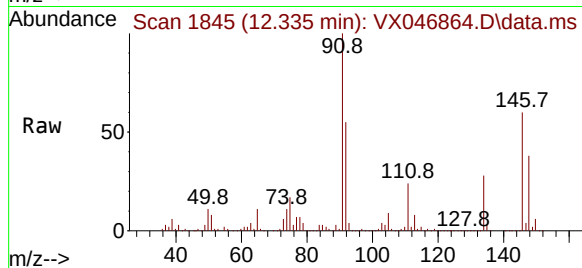
201 70.0 35.8 107.4





#91
1,2-Dichlorobenzene
Concen: 98.339 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

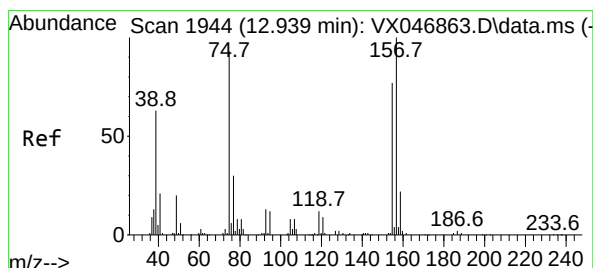
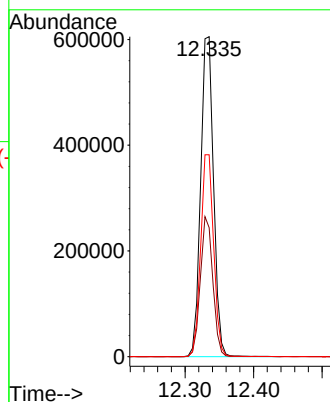
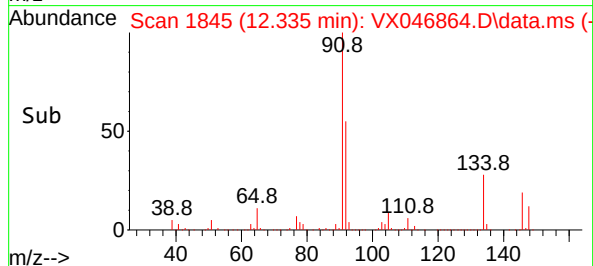
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:146 Resp: 792530
Ion Ratio Lower Upper
146 100
111 42.5 21.1 63.1
148 63.7 31.6 95.0

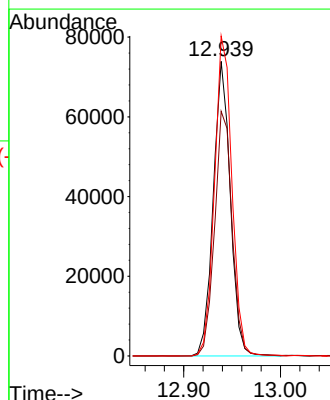
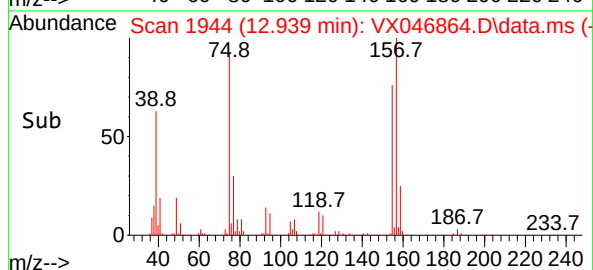
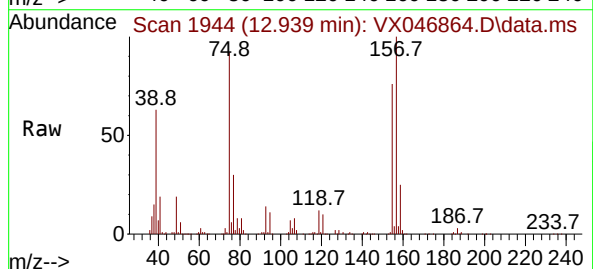
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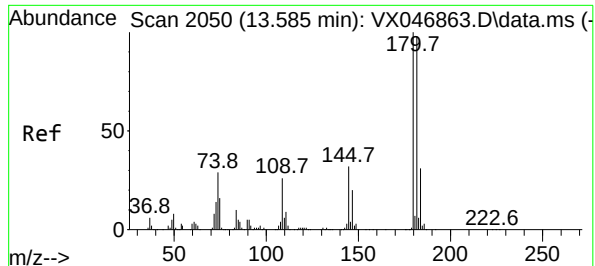
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 105.136 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Tgt Ion: 75 Resp: 90270
Ion Ratio Lower Upper
75 100
155 85.7 43.1 129.4
157 111.2 56.5 169.5





#93

1,2,4-Trichlorobenzene

Concen: 104.000 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:180 Resp: 569410

Ion Ratio Lower Upper

180 100

182 94.9 47.3 141.9

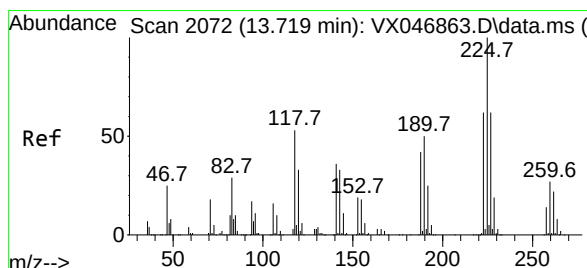
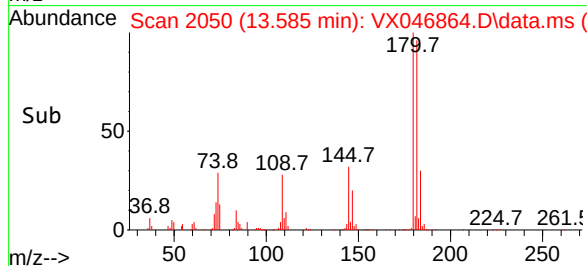
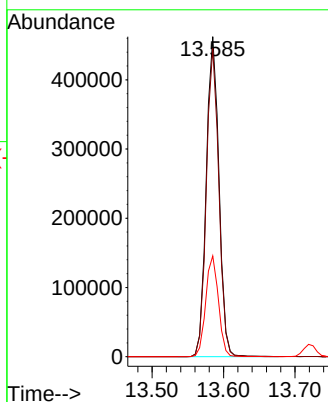
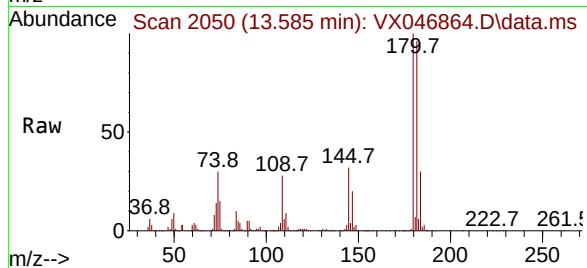
145 31.6 16.1 48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#94

Hexachlorobutadiene

Concen: 100.298 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.006 min

Lab File: VX046864.D

Acq: 02 Jul 2025 14:10

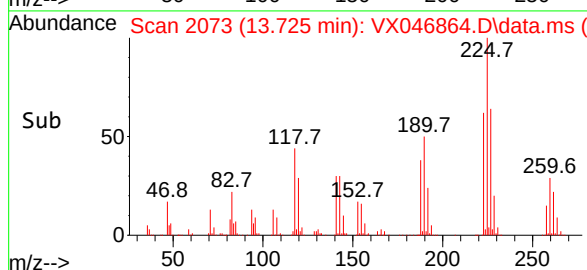
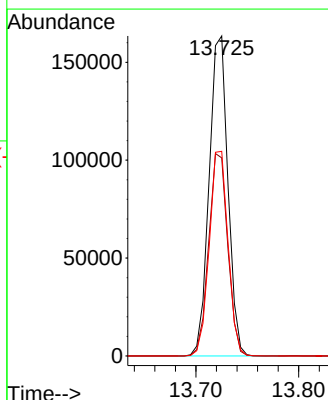
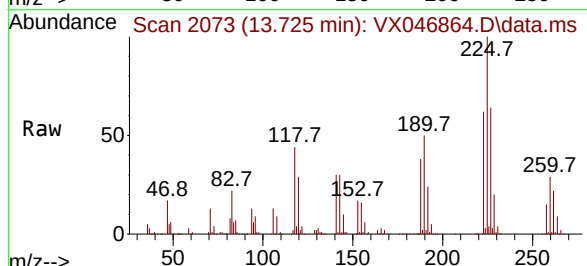
Tgt Ion:225 Resp: 207095

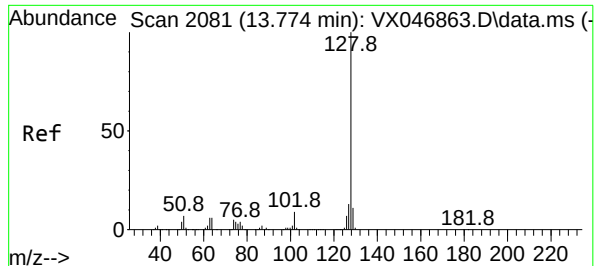
Ion Ratio Lower Upper

225 100

223 64.1 31.6 94.7

227 64.0 31.6 94.7





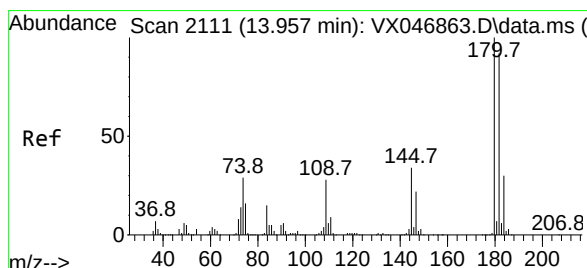
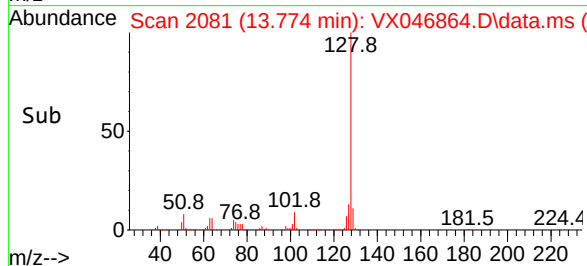
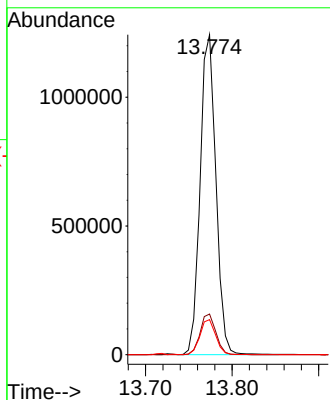
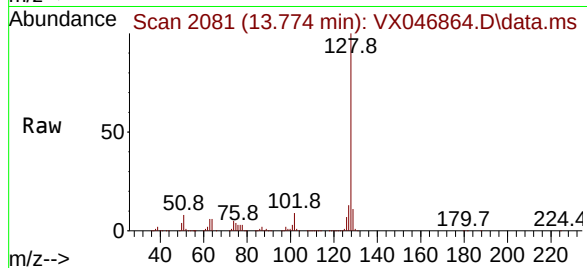
#95
Naphthalene
Concen: 108.986 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:128 Resp: 157238
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.4
129 11.0 8.6 13.0

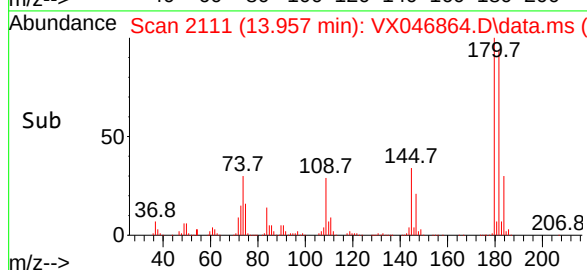
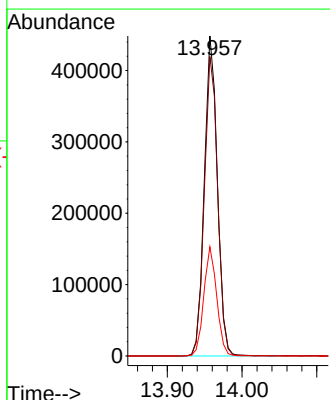
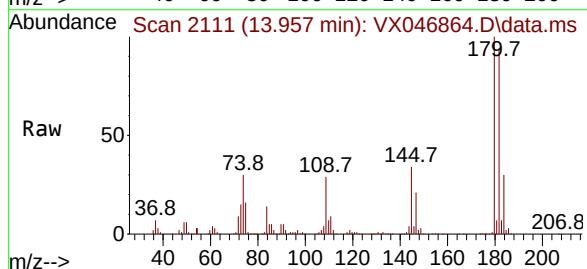
Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#96
1,2,3-Trichlorobenzene
Concen: 104.988 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046864.D
Acq: 02 Jul 2025 14:10

Tgt Ion:180 Resp: 543127
Ion Ratio Lower Upper
180 100
182 95.3 46.7 140.1
145 33.8 16.8 50.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046865.D
 Acq On : 02 Jul 2025 14:31
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Jul 03 05:34:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 07/03/2025
 Supervised By :Mahesh Dadoda 07/03/2025

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	337940	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	564585	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	498758	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	240348	50.000	ug/l	# 0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.964	65	649303	145.436	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 290.880%#	
35) Dibromofluoromethane	5.391	113	550160	143.554	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 287.100%#	
50) Toluene-d8	8.653	98	1923179	142.230	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 284.460%#	
62) 4-Bromofluorobenzene	11.079	95	721016	140.303	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 280.600%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.179	85	497096	153.809	ug/l	99
3) Chloromethane	1.307	50	537388	152.188	ug/l	98
4) Vinyl Chloride	1.386	62	574277	149.346	ug/l	99
5) Bromomethane	1.611	94	298828	120.949	ug/l	100
6) Chloroethane	1.697	64	358739	141.285	ug/l	99
7) Trichlorofluoromethane	1.904	101	897728	150.988	ug/l	99
8) Diethyl Ether	2.148	74	321838	152.105	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.343	101	569627	150.352	ug/l	99
10) Methyl Iodide	2.465	142	705949	171.034	ug/l	98
11) Tert butyl alcohol	2.965	59	229819	784.885	ug/l	99
12) 1,1-Dichloroethene	2.337	96	547474	149.400	ug/l	97
13) Acrolein	2.245	56	245973	754.434	ug/l	98
14) Allyl chloride	2.678	41	996540	152.745	ug/l	99
15) Acrylonitrile	3.075	53	1288046	757.776	ug/l	99
16) Acetone	2.386	43	1013283	730.677	ug/l	99
17) Carbon Disulfide	2.526	76	1394541	145.111	ug/l	99
18) Methyl Acetate	2.709	43	607185	166.116	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	1637759	158.264	ug/l	98
20) Methylene Chloride	2.800	84	596413	145.441	ug/l	98
21) trans-1,2-Dichloroethene	3.105	96	552703	147.398	ug/l	97
22) Diisopropyl ether	3.770	45	1919430	152.282	ug/l	99
23) Vinyl Acetate	3.733	43	7476523	791.755	ug/l	100
24) 1,1-Dichloroethane	3.623	63	1064068	148.024	ug/l	100
25) 2-Butanone	4.562	43	1449681	783.522	ug/l	100
26) 2,2-Dichloropropane	4.489	77	837466	156.539	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	674986	147.435	ug/l	100
28) Bromochloromethane	4.910	49	515523	145.311	ug/l	99
29) Tetrahydrofuran	5.007	42	928390	787.145	ug/l	100
30) Chloroform	5.105	83	1064448	144.942	ug/l	100
31) Cyclohexane	5.483	56	939695	147.249	ug/l	100
32) 1,1,1-Trichloroethane	5.391	97	922378	150.332	ug/l	98
36) 1,1-Dichloropropene	5.702	75	739394	142.995	ug/l	99
37) Ethyl Acetate	4.721	43	631521	143.396	ug/l	98
38) Carbon Tetrachloride	5.684	117	809906	146.250	ug/l	98
39) Methylcyclohexane	7.385	83	974901	150.724	ug/l	99
40) Benzene	6.043	78	2243029	143.418	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046865.D
 Acq On : 02 Jul 2025 14:31
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Jul 03 05:34:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:21:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 07/03/2025
 Supervised By :Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	375761	159.945	ug/l	99
42) 1,2-Dichloroethane	6.092	62	756183	142.387	ug/l	100
43) Isopropyl Acetate	6.342	43	1104335	163.711	ug/l	100
44) Trichloroethene	7.129	130	583397	143.298	ug/l	97
45) 1,2-Dichloropropane	7.433	63	579224	146.587	ug/l	99
46) Dibromomethane	7.586	93	401338	146.592	ug/l	99
47) Bromodichloromethane	7.824	83	858188	146.803	ug/l	99
48) Methyl methacrylate	7.696	41	580607	166.693	ug/l	99
49) 1,4-Dioxane	7.665	88	122695	3040.136	ug/l	98
51) 4-Methyl-2-Pentanone	8.574	43	3026947	760.332	ug/l	98
52) Toluene	8.720	92	1394797	143.918	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	853017	163.503	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	939003	157.682	ug/l	97
55) 1,1,2-Trichloroethane	9.153	97	521889	144.574	ug/l	98
56) Ethyl methacrylate	9.116	69	816206	163.362	ug/l	100
57) 1,3-Dichloropropane	9.305	76	893213	143.699	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.244	63	2192288	778.743	ug/l	100
59) 2-Hexanone	9.427	43	2051712	776.972	ug/l	100
60) Dibromochloromethane	9.518	129	637739	147.623	ug/l	99
61) 1,2-Dibromoethane	9.610	107	536592	148.009	ug/l	100
64) Tetrachloroethene	9.275	164	475745	143.265	ug/l	96
65) Chlorobenzene	10.079	112	1563433	144.986	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	548552	151.325	ug/l	100
67) Ethyl Benzene	10.195	91	2729559	147.809	ug/l	98
68) m/p-Xylenes	10.299	106	2009645	288.799	ug/l	99
69) o-Xylene	10.640	106	987134	146.856	ug/l	99
70) Styrene	10.652	104	1697064	147.567	ug/l	98
71) Bromoform	10.799	173	411264	152.584	ug/l	97
73) Isopropylbenzene	10.963	105	2588441	153.200	ug/l	100
74) N-amyl acetate	10.841	43	986018	171.738	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	698105	150.263	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	567147m	152.717	ug/l	
77) Bromobenzene	11.195	156	628974	149.454	ug/l	99
78) n-propylbenzene	11.305	91	3052066	149.810	ug/l	99
79) 2-Chlorotoluene	11.360	91	1784161	148.315	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	2088013	152.092	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	239775	173.259	ug/l	95
82) 4-Chlorotoluene	11.451	91	2061746	148.519	ug/l	99
83) tert-Butylbenzene	11.713	119	2164507	152.653	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	2118023	152.635	ug/l	97
85) sec-Butylbenzene	11.890	105	2681731	150.005	ug/l	99
86) p-Isopropyltoluene	12.006	119	2218491	148.186	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	1167669	148.354	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	1176579	143.634	ug/l	99
89) n-Butylbenzene	12.329	91	2101194	149.371	ug/l	99
90) Hexachloroethane	12.536	117	424369	159.899	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	1117598	146.526	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	138617	170.588	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	825907	159.391	ug/l	99
94) Hexachlorobutadiene	13.725	225	296507	151.734	ug/l	99
95) Naphthalene	13.774	128	2359854	172.832	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	792593	161.887	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046865.D
Acq On : 02 Jul 2025 14:31
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 03 05:34:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:21:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

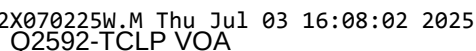
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

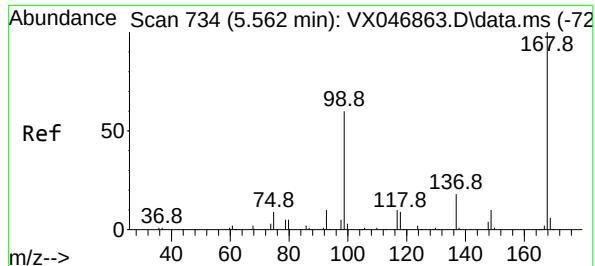
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025





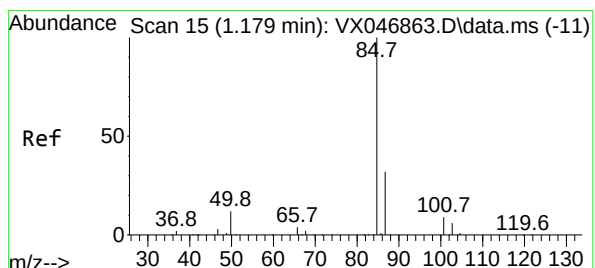
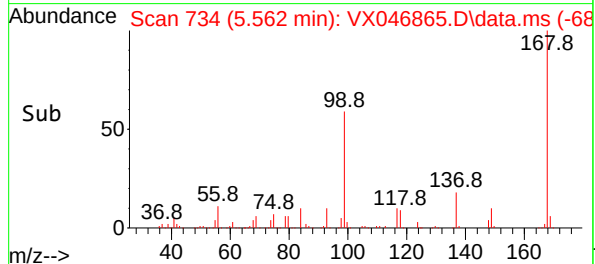
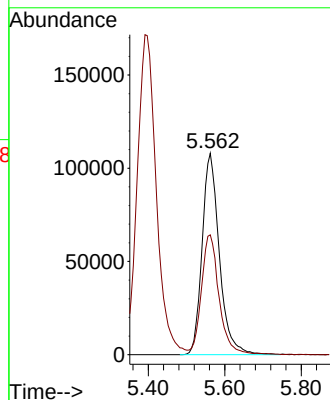
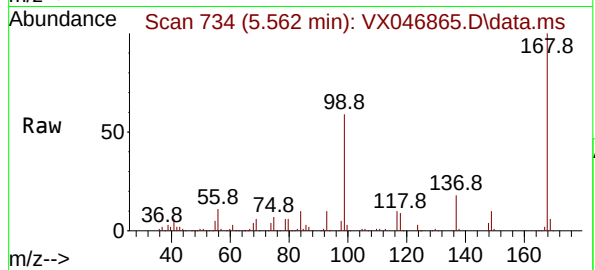
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 337940
Ion Ratio Lower Upper
168 100
99 59.3 48.8 73.2

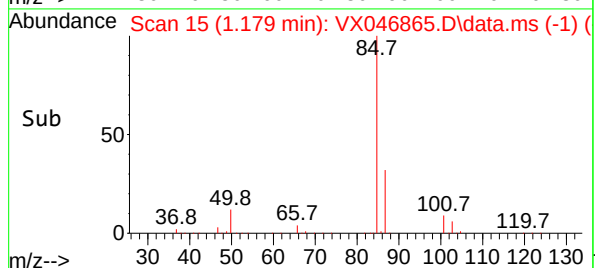
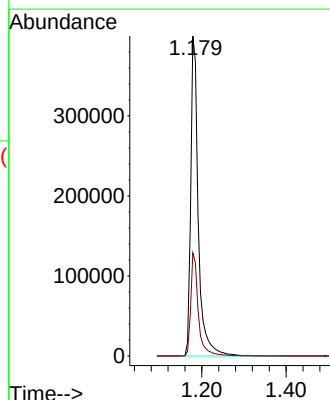
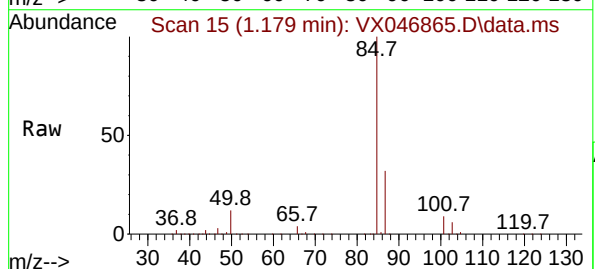
Manual Integrations
APPROVED

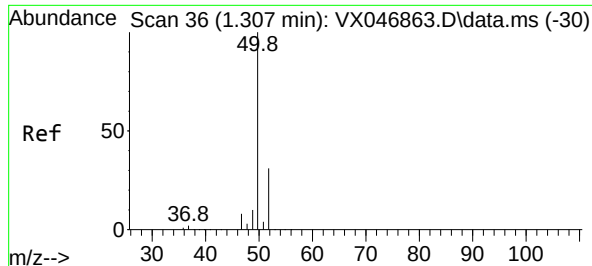
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#2
Dichlorodifluoromethane
Concen: 153.809 ug/l
RT: 1.179 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Tgt Ion: 85 Resp: 497096
Ion Ratio Lower Upper
85 100
87 32.2 16.0 47.9





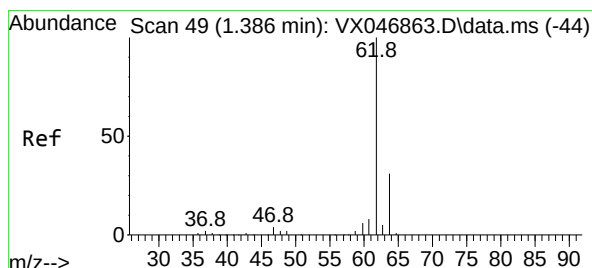
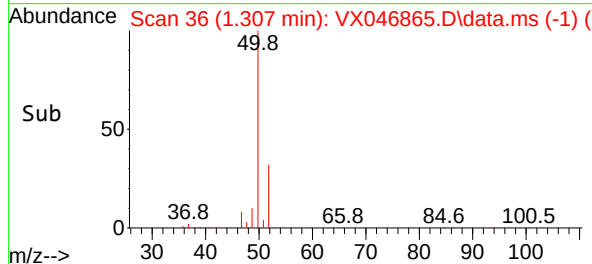
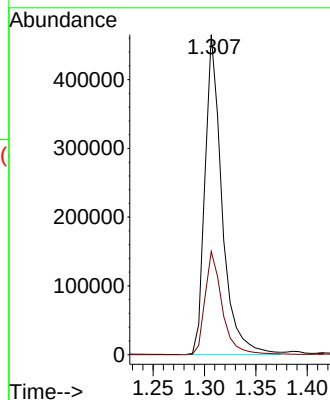
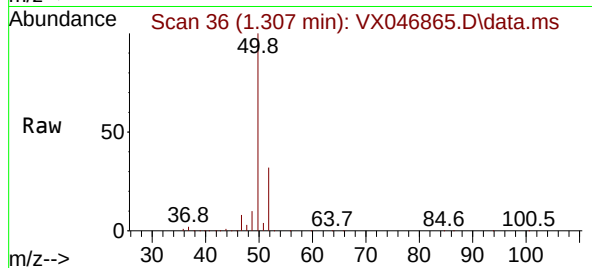
#3
Chloromethane
Concen: 152.188 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 53738
Ion Ratio Lower Upper
50 100
52 32.3 25.0 37.4

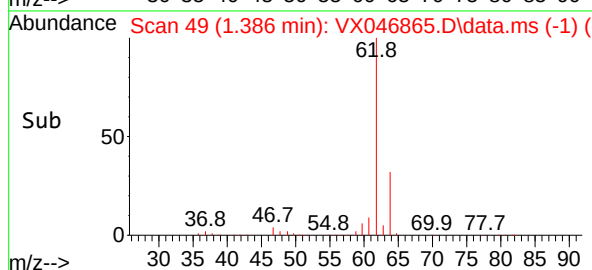
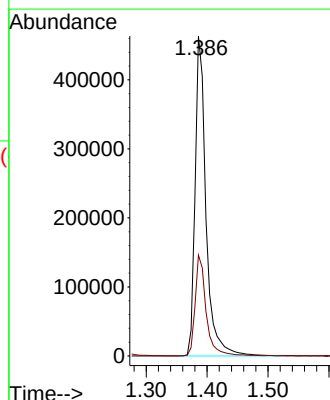
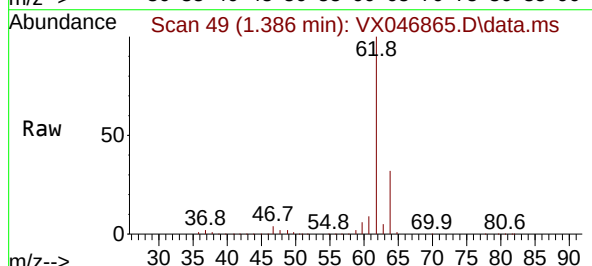
Manual Integrations
APPROVED

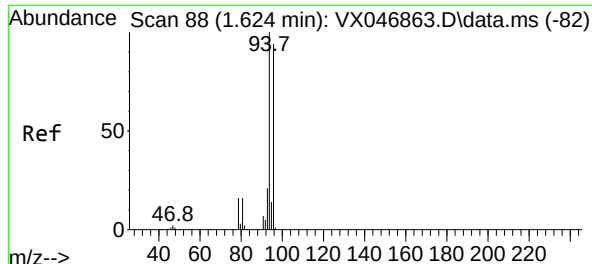
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#4
Vinyl Chloride
Concen: 149.346 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

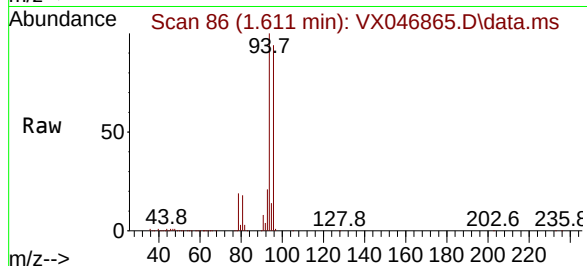
Tgt Ion: 62 Resp: 574277
Ion Ratio Lower Upper
62 100
64 31.5 25.0 37.4





#5
Bromomethane
Concen: 120.949 ug/l
RT: 1.611 min Scan# 80
Delta R.T. -0.012 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

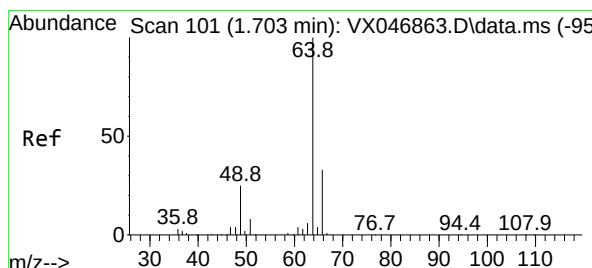
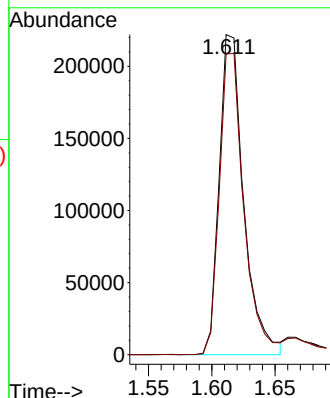
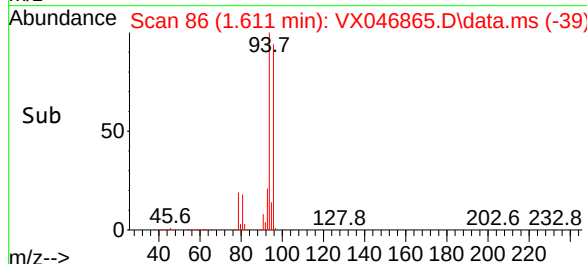
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



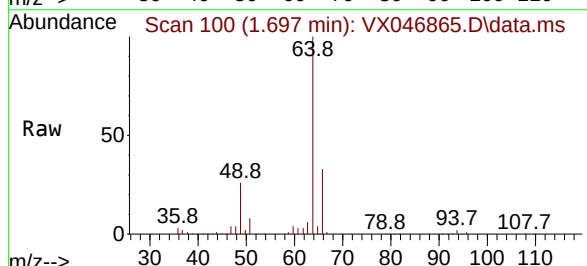
Tgt Ion: 94 Resp: 298828
Ion Ratio Lower Upper
94 100
96 94.0 75.5 113.3

Manual Integrations
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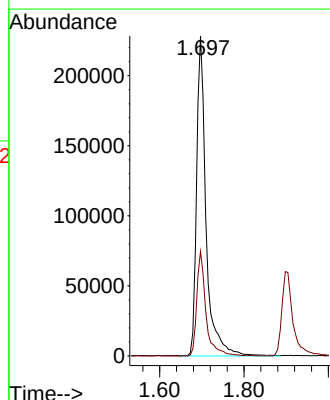
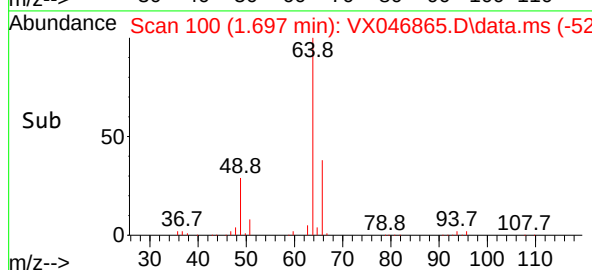
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

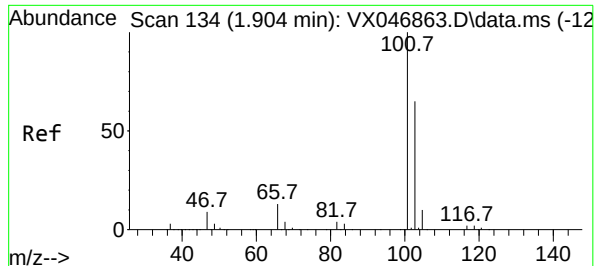


#6
Chloroethane
Concen: 141.285 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31



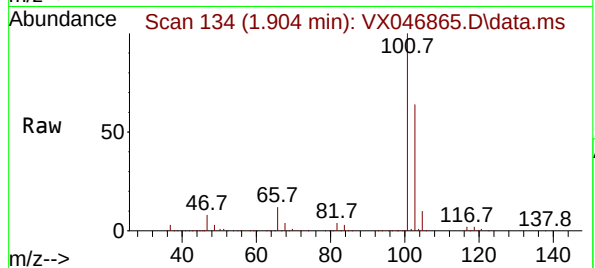
Tgt Ion: 64 Resp: 358739
Ion Ratio Lower Upper
64 100
66 32.7 26.4 39.6





#7
Trichlorofluoromethane
Concen: 150.988 ug/l
RT: 1.904 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

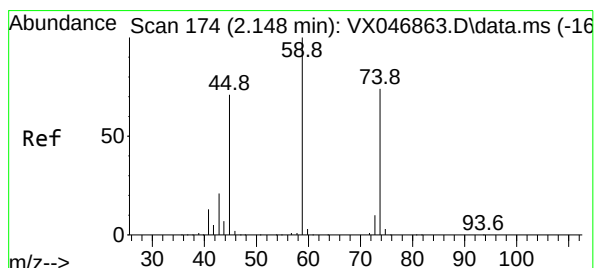
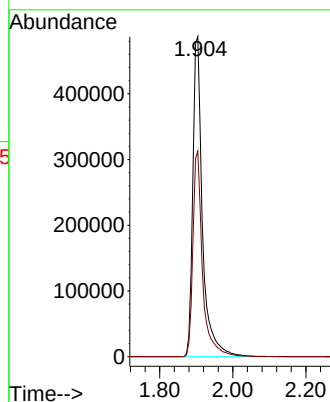
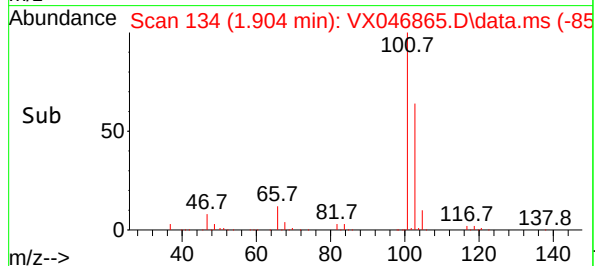
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:101 Resp: 897728
Ion Ratio Lower Upper
101 100
103 64.2 51.9 77.9

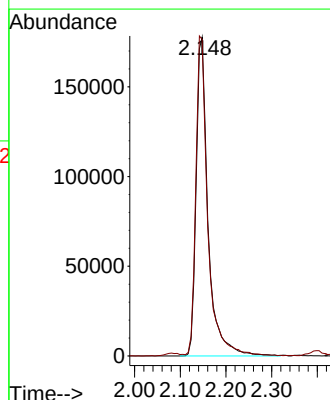
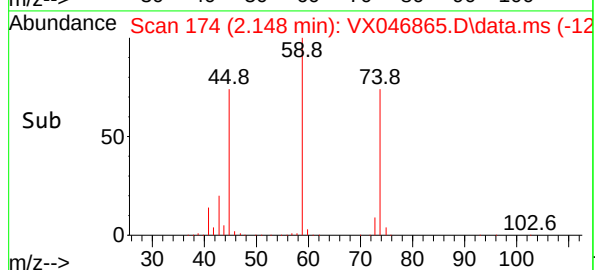
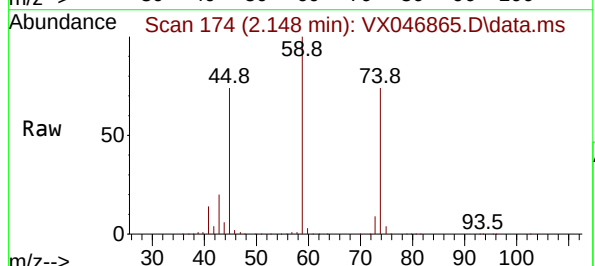
Manual Integrations
APPROVED

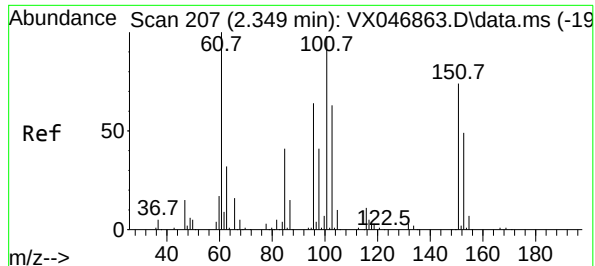
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#8
Diethyl Ether
Concen: 152.105 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Tgt Ion: 74 Resp: 321838
Ion Ratio Lower Upper
74 100
45 100.3 50.7 152.1





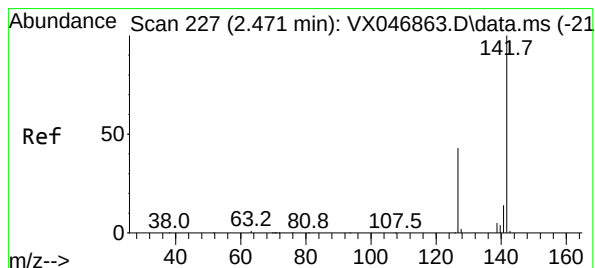
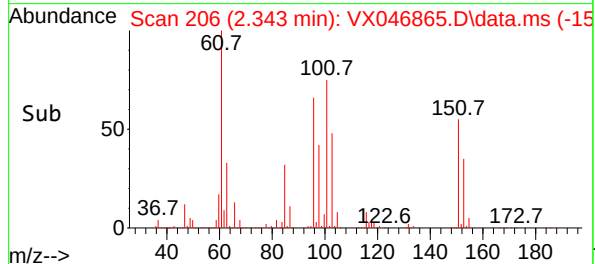
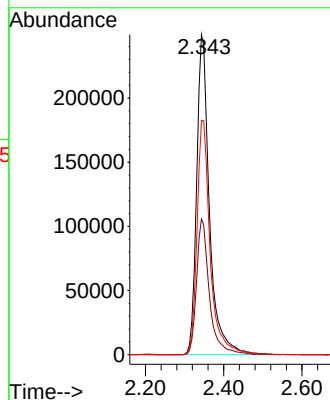
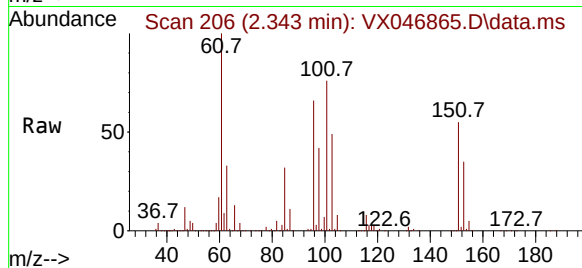
#9
1,1,2-Trichlorotrifluoroethane
Concen: 150.352 ug/l
RT: 2.343 min Scan# 206
Delta R.T. -0.006 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 56962
Ion Ratio Lower Upper
101 100
85 42.4 34.3 51.5
151 75.3 59.9 89.9

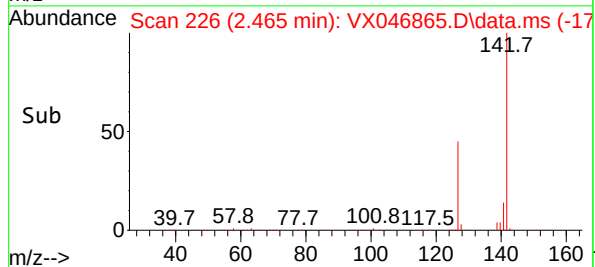
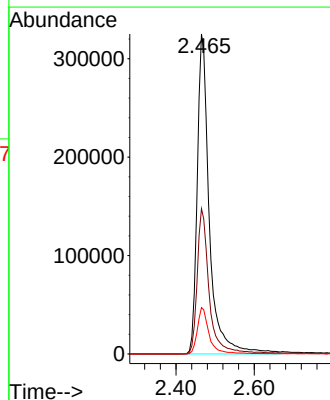
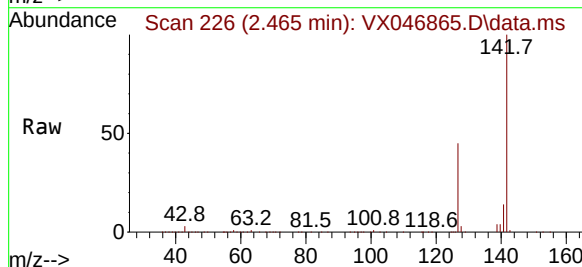
Manual Integrations
APPROVED

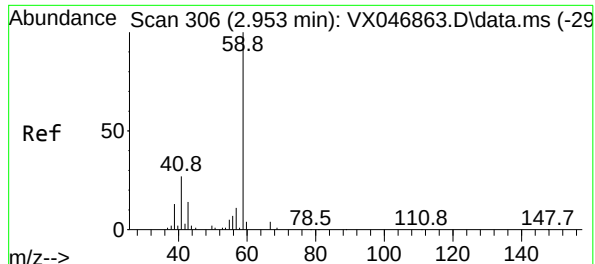
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#10
Methyl Iodide
Concen: 171.034 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Tgt Ion:142 Resp: 705949
Ion Ratio Lower Upper
142 100
127 44.9 34.9 52.3
141 14.1 11.1 16.7





#11

Tert butyl alcohol

Concen: 784.885 ug/l

RT: 2.965 min Scan# 306

Delta R.T. 0.012 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 59 Resp: 229819

Ion Ratio Lower Upper

59 100

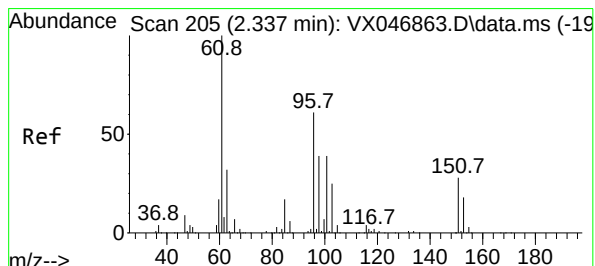
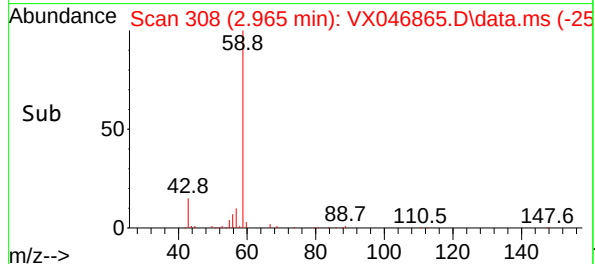
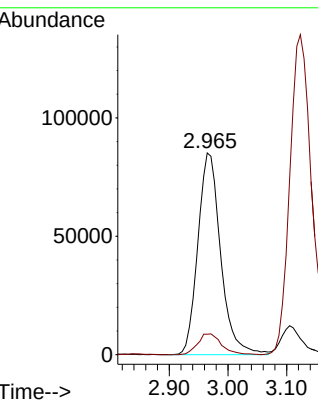
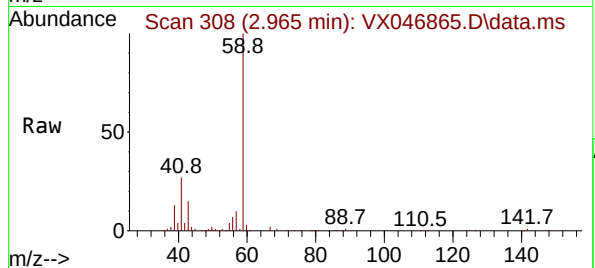
57 10.9 8.5 12.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#12

1,1-Dichloroethene

Concen: 149.400 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

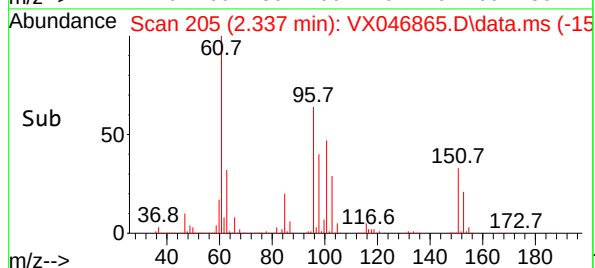
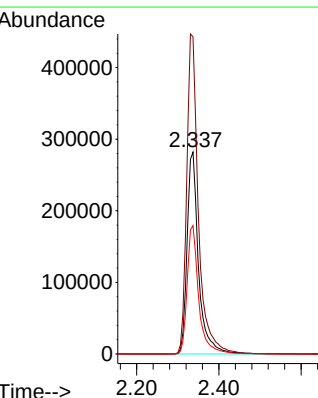
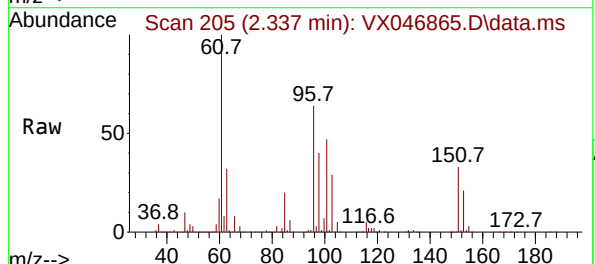
Tgt Ion: 96 Resp: 547474

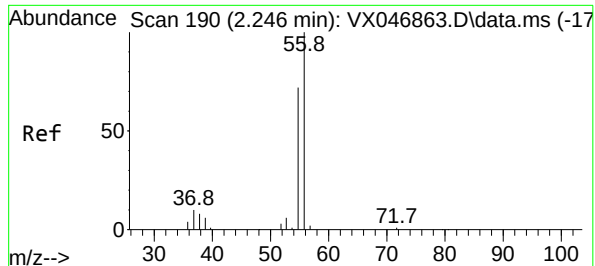
Ion Ratio Lower Upper

96 100

61 157.0 130.2 195.4

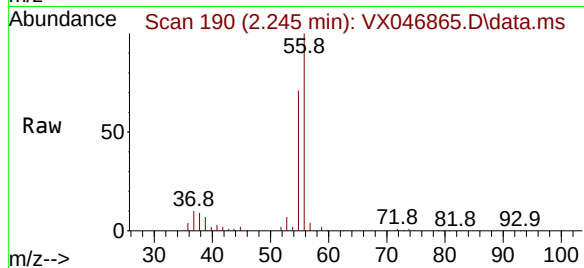
98 63.6 51.3 76.9





#13
Acrolein
Concen: 754.434 ug/l
RT: 2.245 min Scan# 190
Delta R.T. -0.001 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

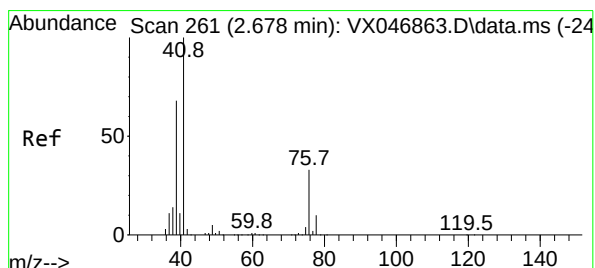
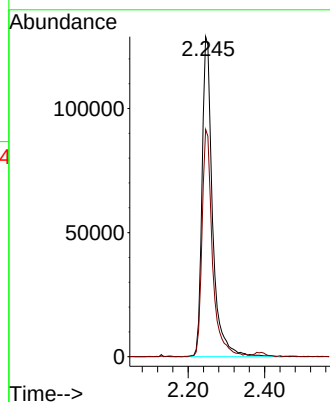
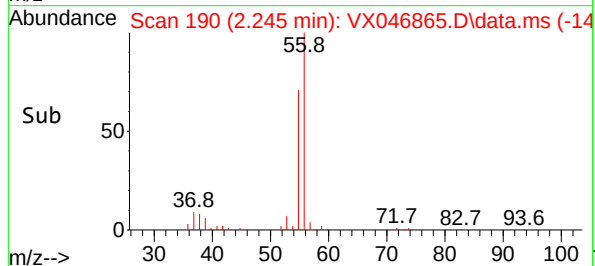
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 56 Resp: 24597
Ion Ratio Lower Upper
56 100
55 70.8 55.5 83.3

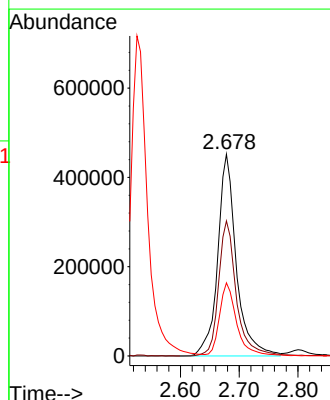
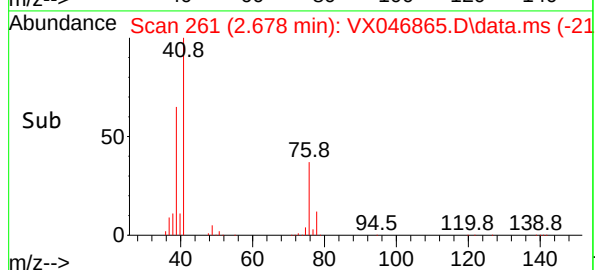
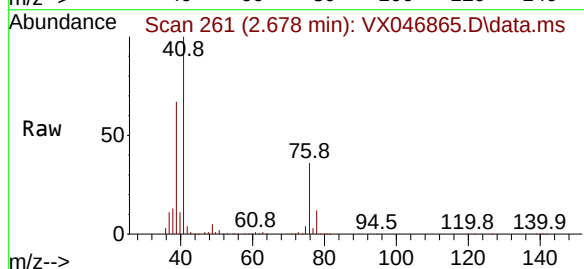
Manual Integrations
APPROVED

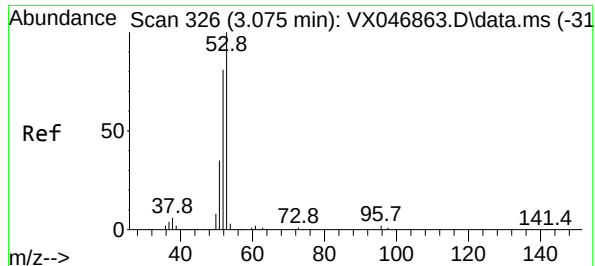
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#14
Allyl chloride
Concen: 152.745 ug/l
RT: 2.678 min Scan# 261
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Tgt Ion: 41 Resp: 996540
Ion Ratio Lower Upper
41 100
39 64.3 52.0 78.0
76 33.6 26.2 39.2





#15

Acrylonitrile

Concen: 757.776 ug/l

RT: 3.075 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 53 Resp: 128804

Ion Ratio Lower Upper

53 100

52 81.5 66.0 99.0

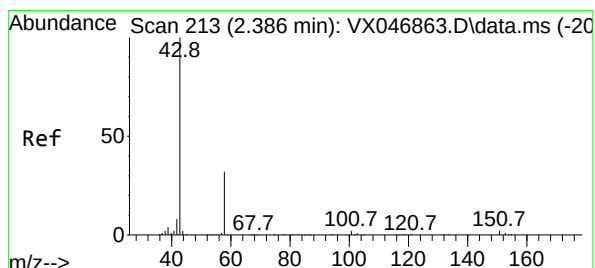
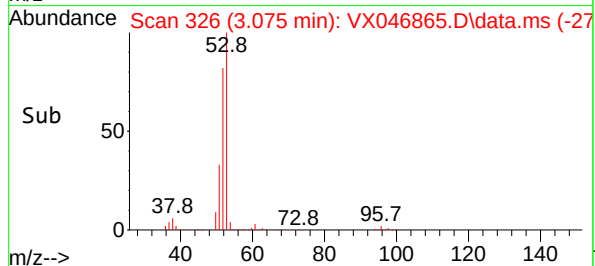
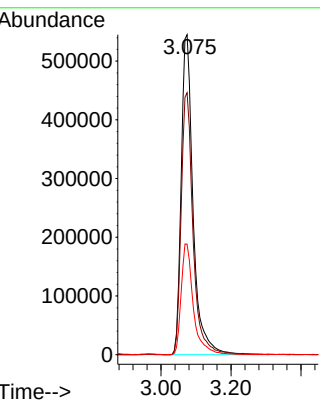
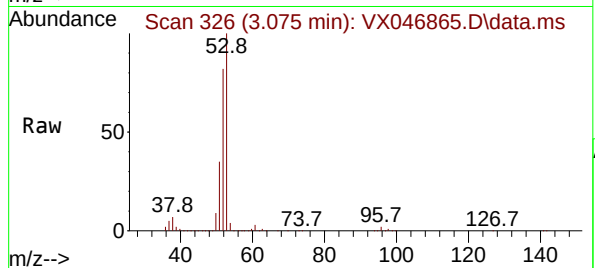
51 35.6 28.6 43.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#16

Acetone

Concen: 730.677 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.000 min

Lab File: VX046865.D

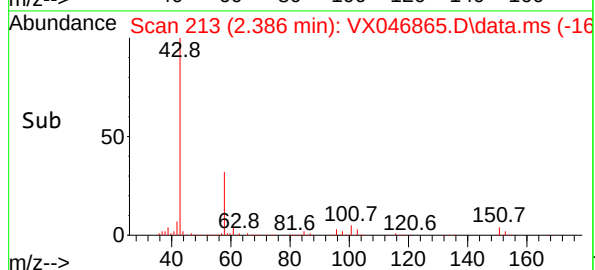
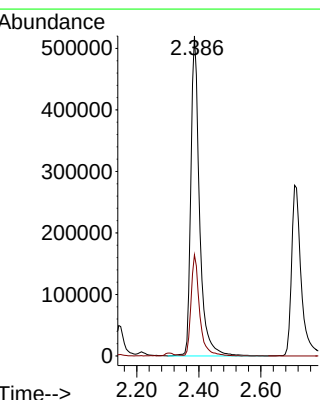
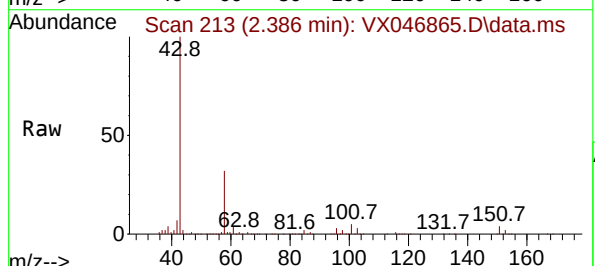
Acq: 02 Jul 2025 14:31

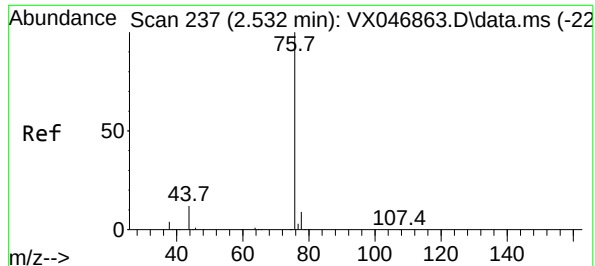
Tgt Ion: 43 Resp: 1013283

Ion Ratio Lower Upper

43 100

58 31.6 25.8 38.6





#17

Carbon Disulfide

Concen: 145.111 ug/l

RT: 2.526 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 76 Resp: 139454

Ion Ratio Lower Upper

76 100

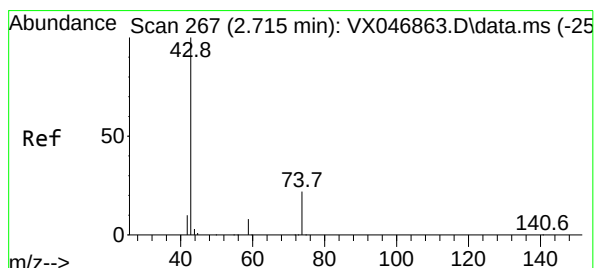
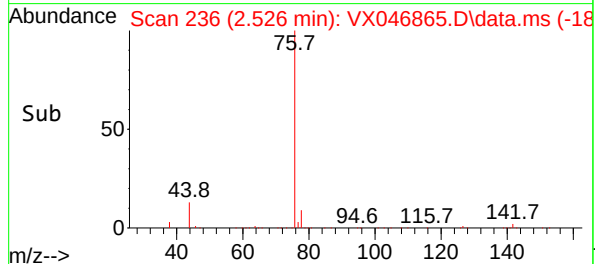
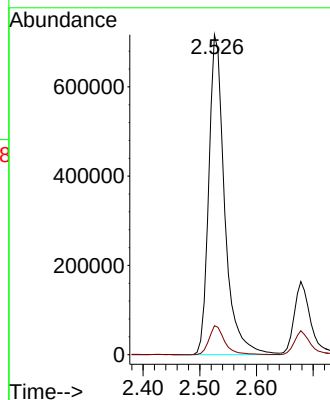
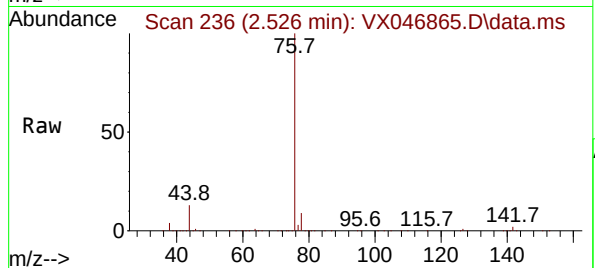
78 9.0 7.4 11.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#18

Methyl Acetate

Concen: 166.116 ug/l

RT: 2.709 min Scan# 266

Delta R.T. -0.006 min

Lab File: VX046865.D

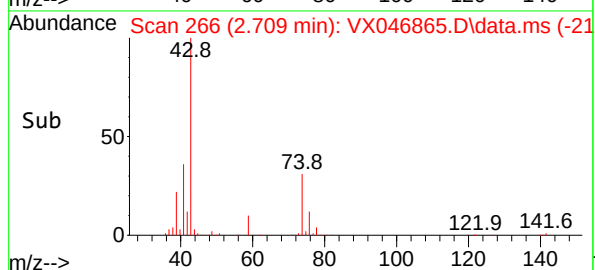
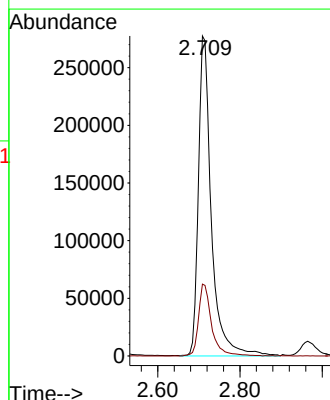
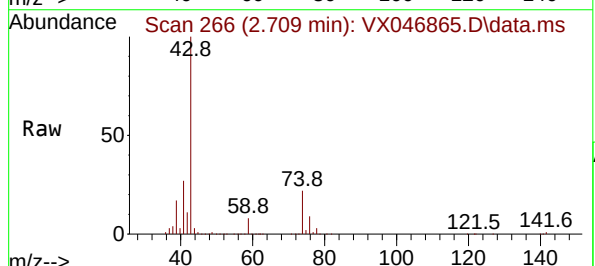
Acq: 02 Jul 2025 14:31

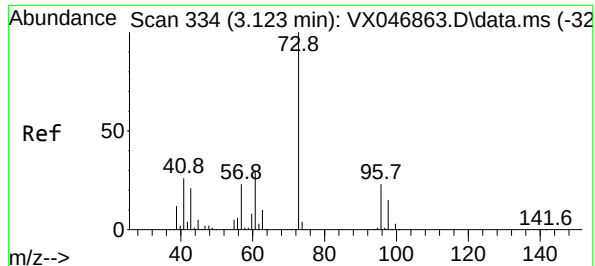
Tgt Ion: 43 Resp: 607185

Ion Ratio Lower Upper

43 100

74 22.6 18.3 27.5





#19

Methyl tert-butyl Ether

Concen: 158.264 ug/l

RT: 3.123 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 73 Resp: 163775

Ion Ratio Lower Upper

73 100

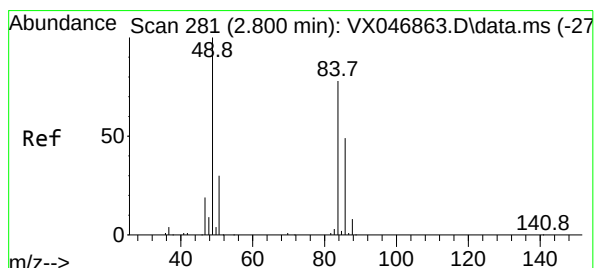
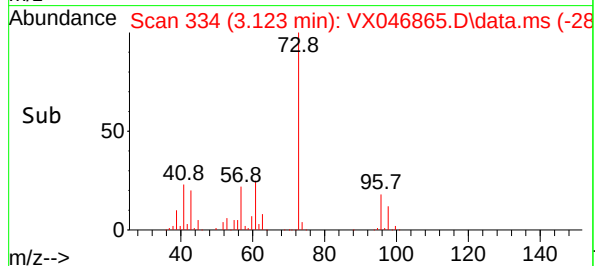
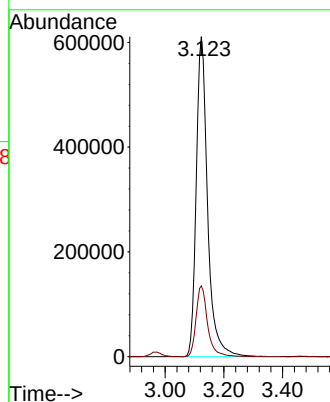
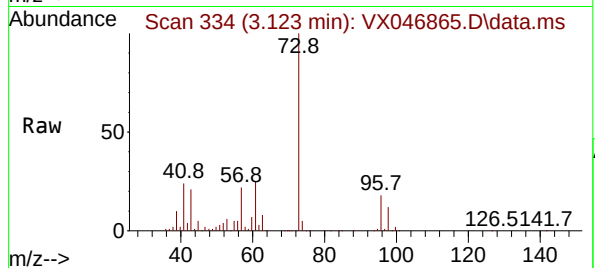
57 22.1 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#20

Methylene Chloride

Concen: 145.441 ug/l

RT: 2.800 min Scan# 281

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Tgt Ion: 84 Resp: 596413

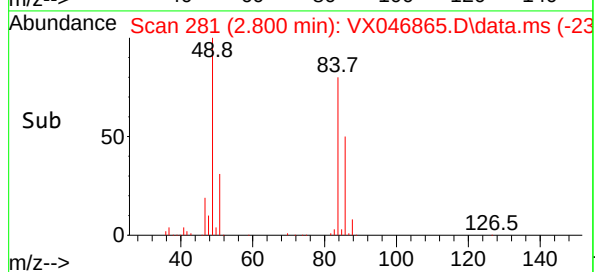
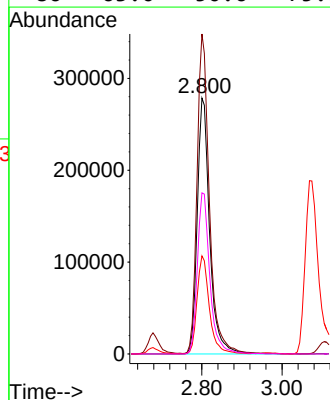
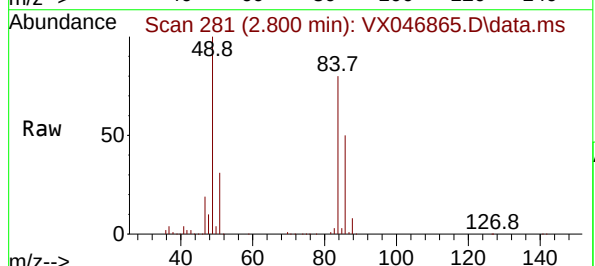
Ion Ratio Lower Upper

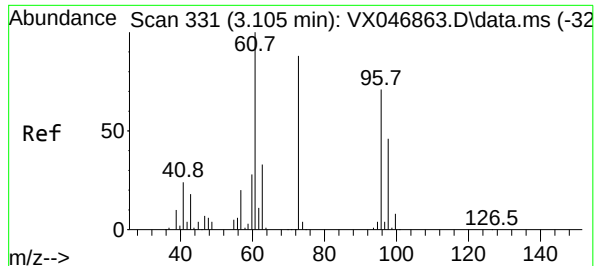
84 100

49 124.9 102.8 154.2

51 38.3 31.1 46.7

86 63.0 50.6 75.8





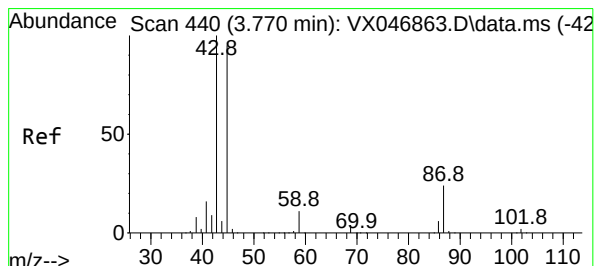
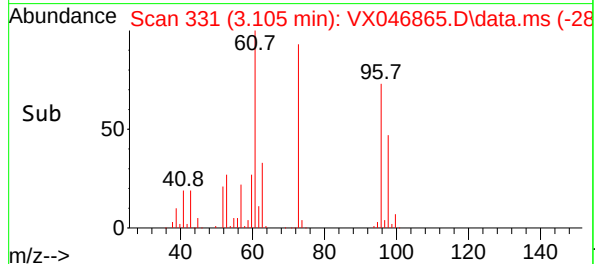
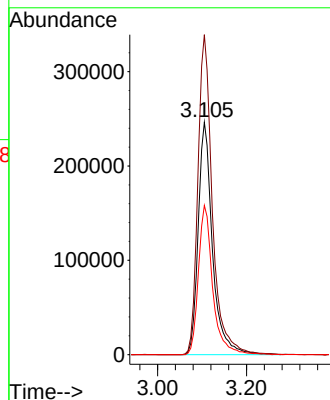
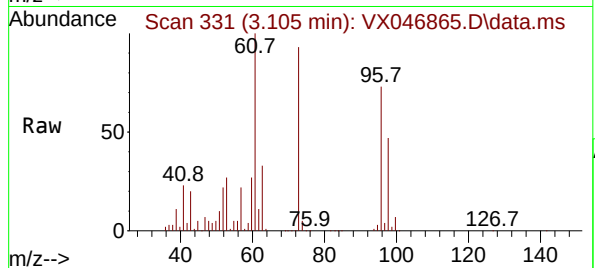
#21
trans-1,2-Dichloroethene
Concen: 147.398 ug/l
RT: 3.105 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 96 Resp: 55270
Ion Ratio Lower Upper
96 100
61 137.6 113.4 170.2
98 64.2 51.8 77.6

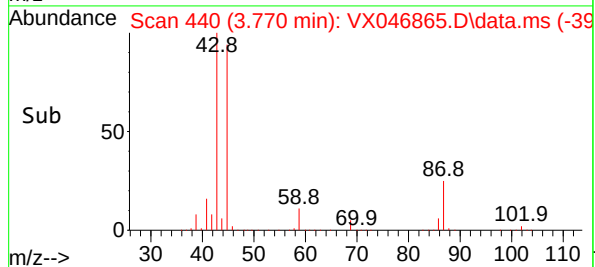
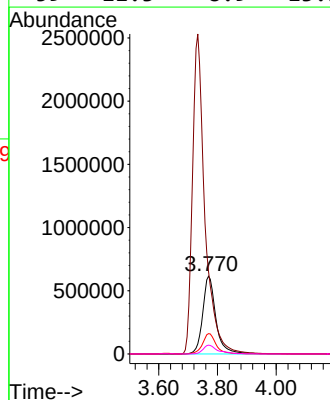
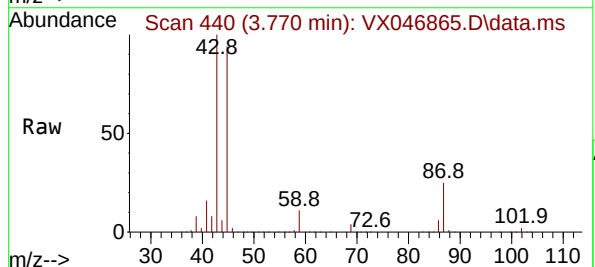
Manual Integrations
APPROVED

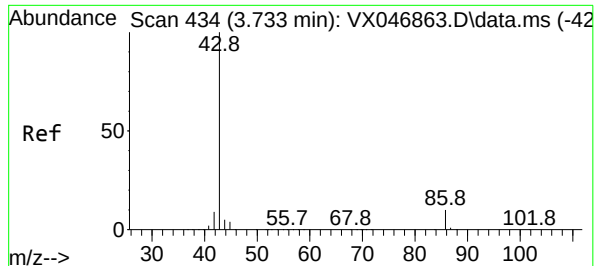
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#22
Diisopropyl ether
Concen: 152.282 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Tgt Ion: 45 Resp: 1919430
Ion Ratio Lower Upper
45 100
43 106.1 84.2 126.4
87 26.2 20.3 30.5
59 11.3 8.9 13.3





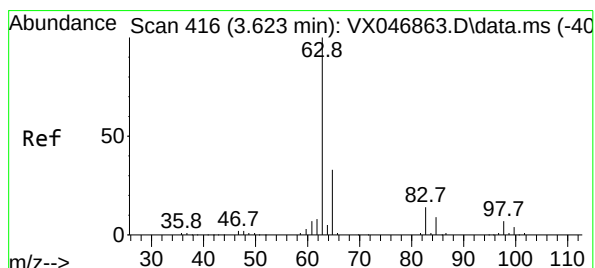
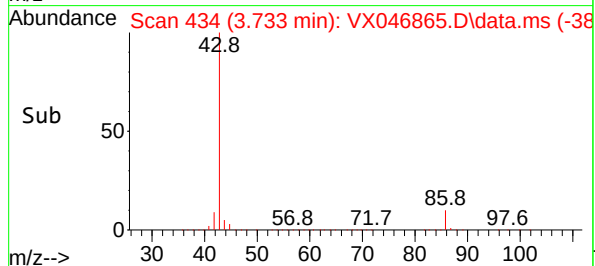
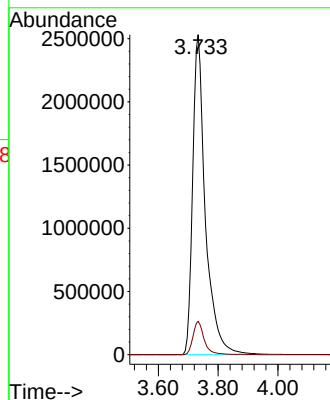
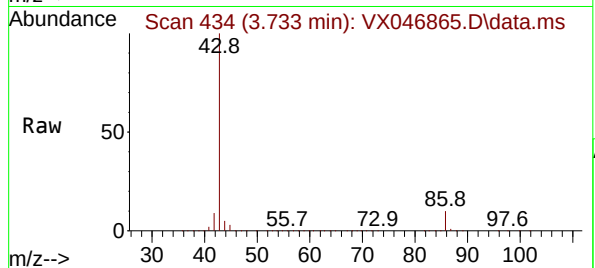
#23
Vinyl Acetate
Concen: 791.755 ug/l
RT: 3.733 min Scan# 41
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 747652
Ion Ratio Lower Upper
43 100
86 10.4 8.2 12.4

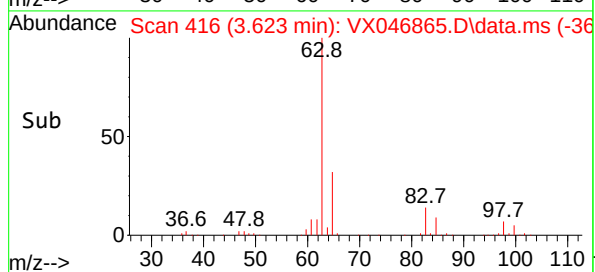
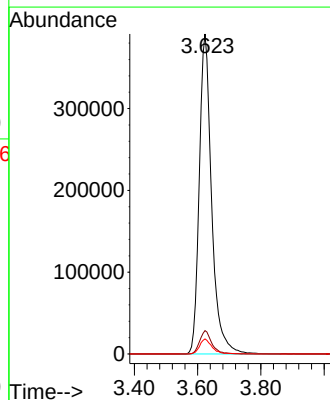
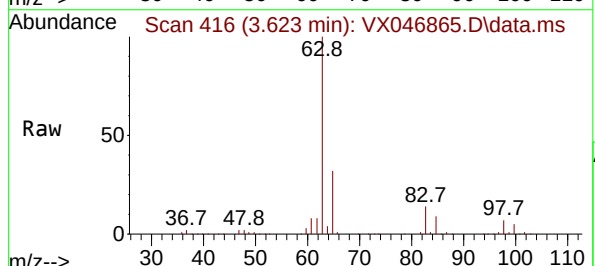
Manual Integrations
APPROVED

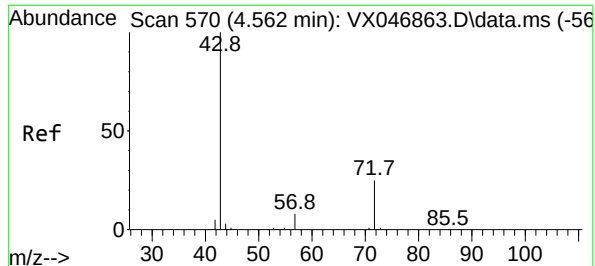
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#24
1,1-Dichloroethane
Concen: 148.024 ug/l
RT: 3.623 min Scan# 416
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Tgt Ion: 63 Resp: 1064068
Ion Ratio Lower Upper
63 100
98 7.3 3.6 10.9
100 4.7 2.3 6.9





#25

2-Butanone

Concen: 783.522 ug/l

RT: 4.562 min Scan# 51

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 144968

Ion Ratio Lower Upper

43 100

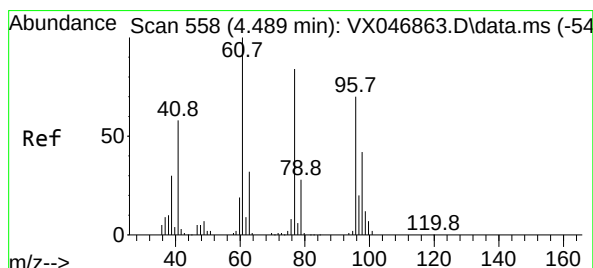
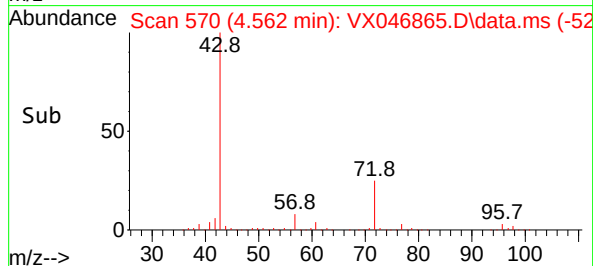
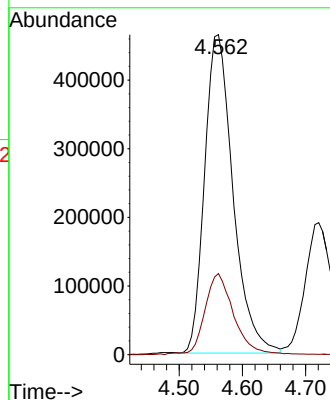
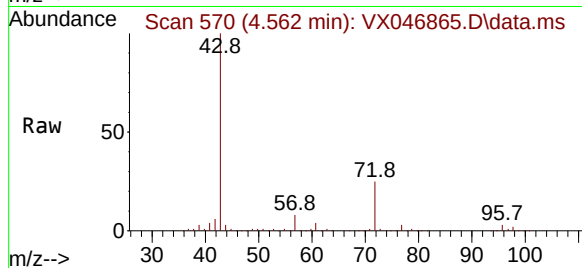
72 25.0 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#26

2,2-Dichloropropane

Concen: 156.539 ug/l

RT: 4.489 min Scan# 558

Delta R.T. -0.000 min

Lab File: VX046865.D

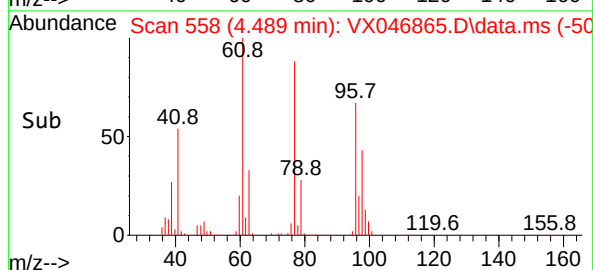
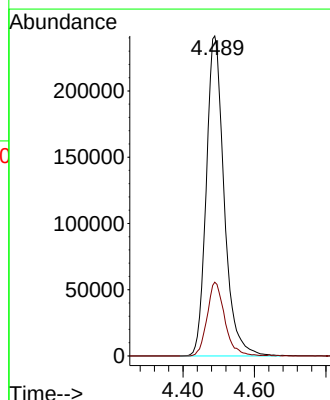
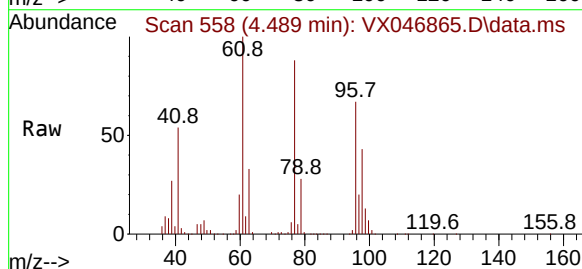
Acq: 02 Jul 2025 14:31

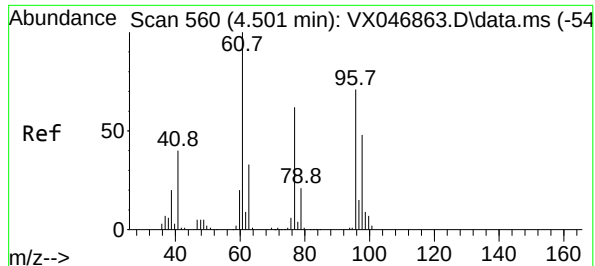
Tgt Ion: 77 Resp: 837466

Ion Ratio Lower Upper

77 100

97 22.9 11.5 34.5





#27

cis-1,2-Dichloroethene

Concen: 147.435 ug/l

RT: 4.501 min Scan# 560

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 67498

Ion Ratio Lower Upper

96 100

61 144.6 0.0 288.6

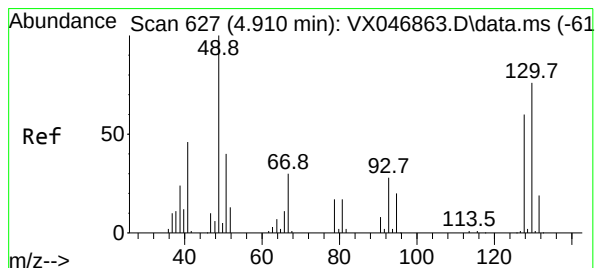
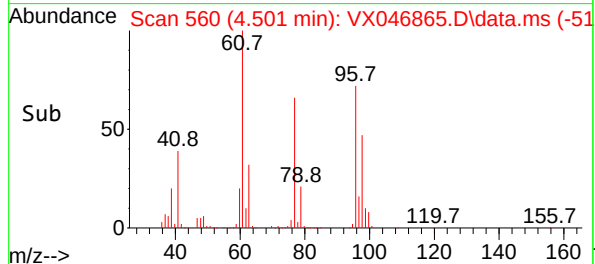
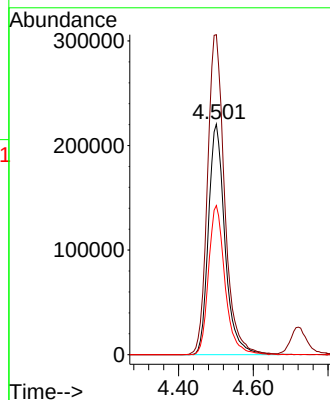
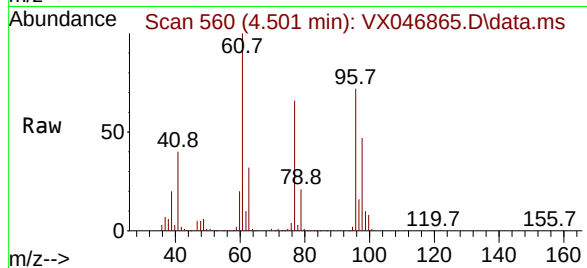
98 64.6 0.0 128.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#28

Bromochloromethane

Concen: 145.311 ug/l

RT: 4.910 min Scan# 627

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

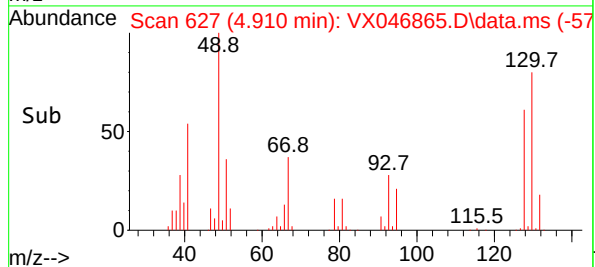
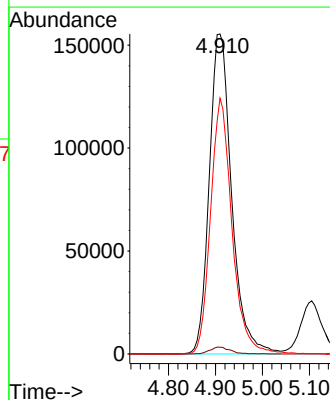
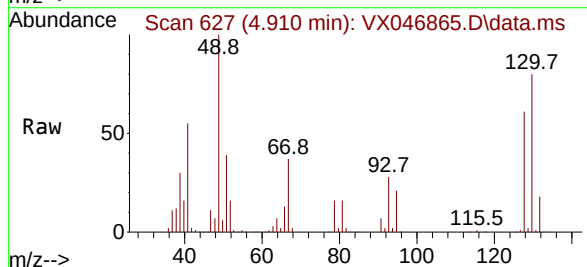
Tgt Ion: 49 Resp: 515523

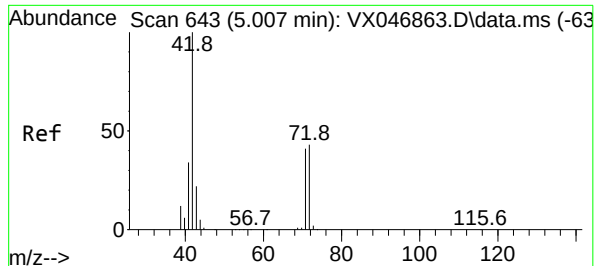
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.2

130 76.4 61.7 92.5





#29

Tetrahydrofuran

Concen: 787.145 ug/l

RT: 5.007 min Scan# 643

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 42 Resp: 928390

Ion Ratio Lower Upper

42 100

72 43.7 35.1 52.7

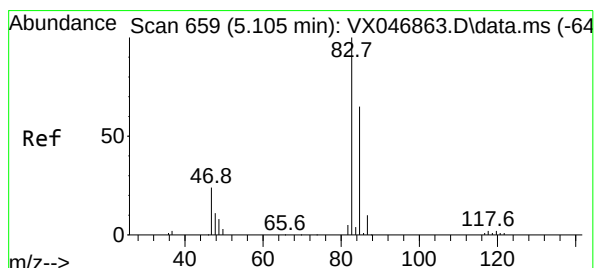
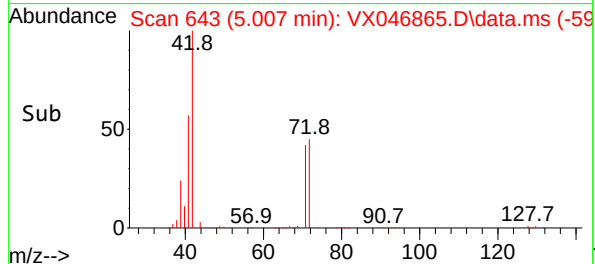
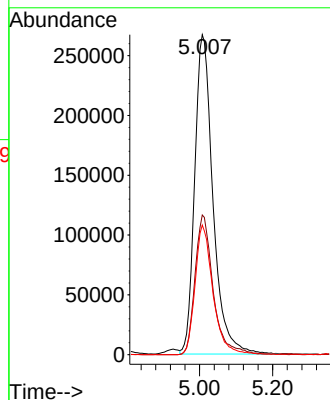
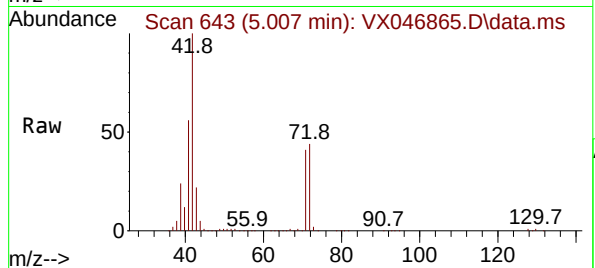
71 39.8 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#30

Chloroform

Concen: 144.942 ug/l

RT: 5.105 min Scan# 659

Delta R.T. -0.000 min

Lab File: VX046865.D

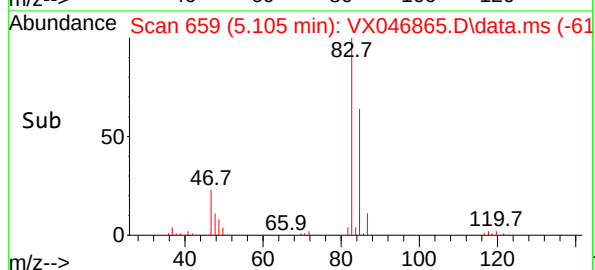
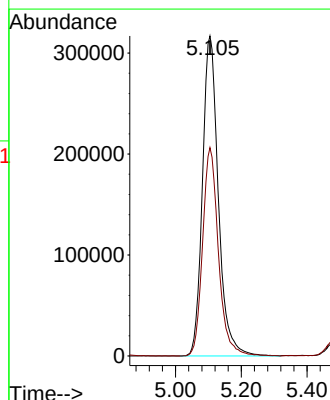
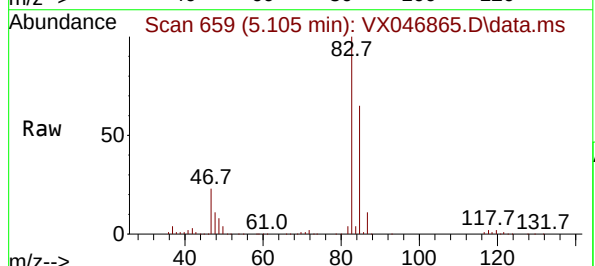
Acq: 02 Jul 2025 14:31

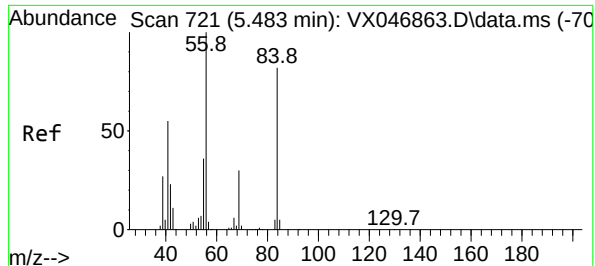
Tgt Ion: 83 Resp: 1064448

Ion Ratio Lower Upper

83 100

85 65.1 51.8 77.8





#31

Cyclohexane

Concen: 147.249 ug/l

RT: 5.483 min Scan# 701

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 93969

Ion Ratio Lower Upper

56 100

69 30.1 24.0 36.0

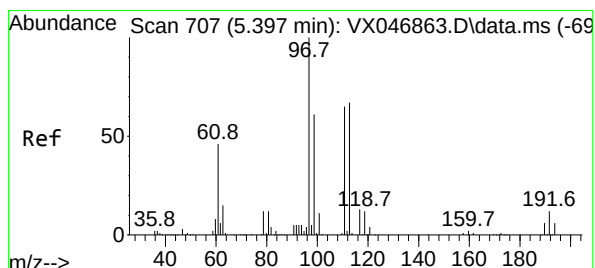
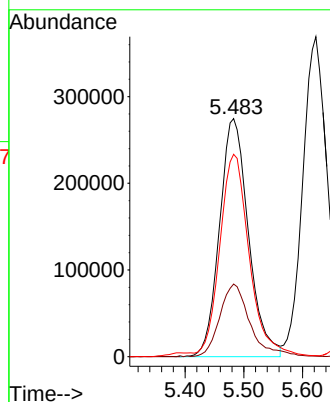
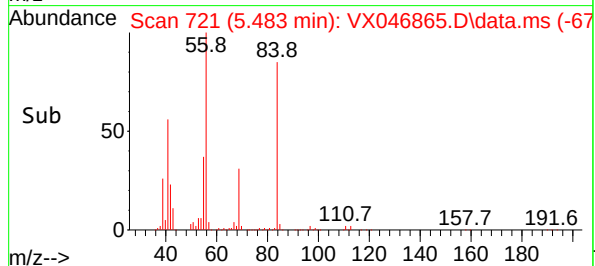
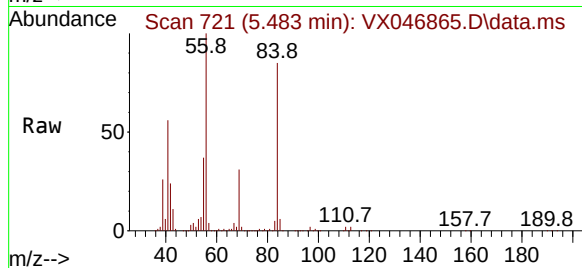
84 83.3 66.5 99.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#32

1,1,1-Trichloroethane

Concen: 150.332 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

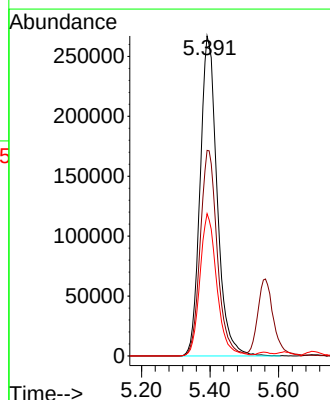
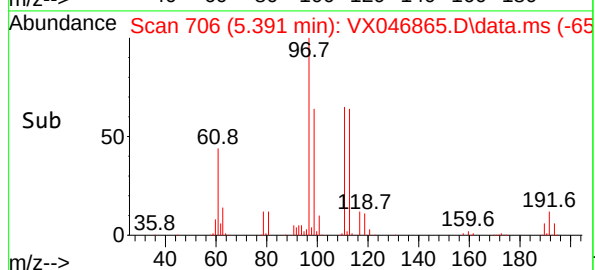
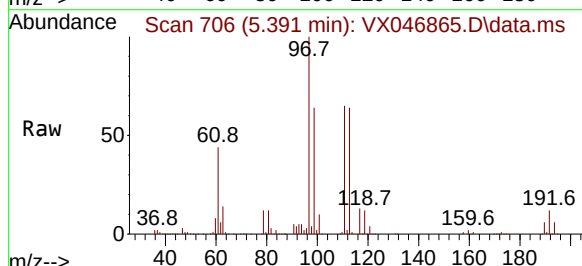
Tgt Ion: 97 Resp: 922378

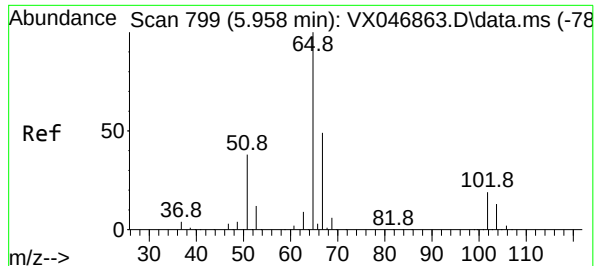
Ion Ratio Lower Upper

97 100

99 64.4 50.6 76.0

61 44.3 36.3 54.5





#33

1,2-Dichloroethane-d4

Concen: 145.436 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.006 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 65 Resp: 64930

Ion Ratio Lower Upper

65 100

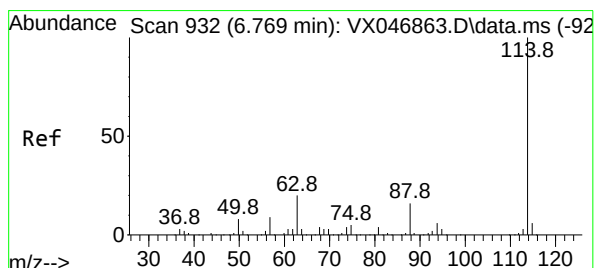
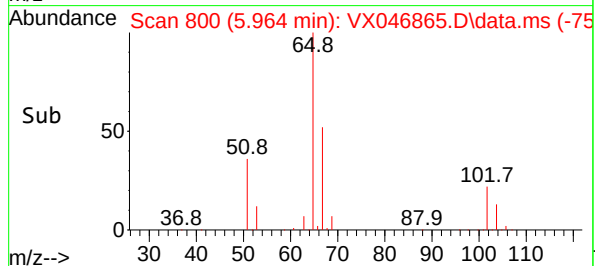
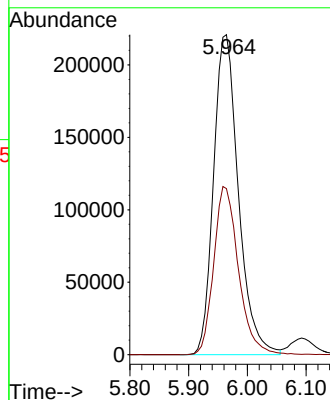
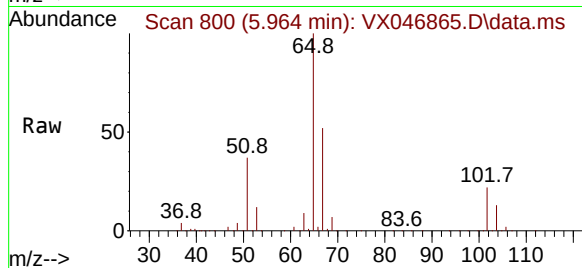
67 52.3 0.0 105.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

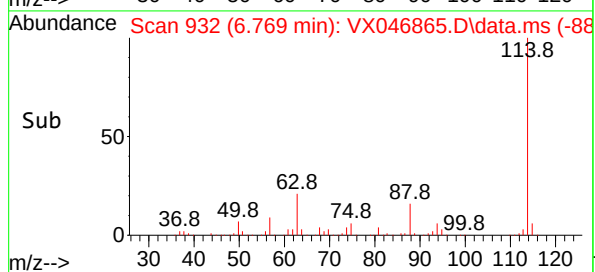
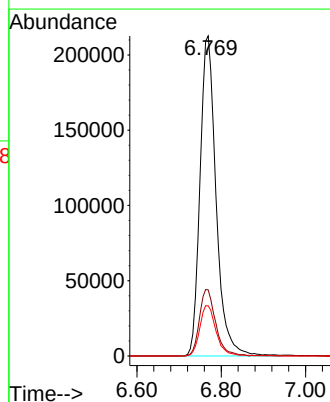
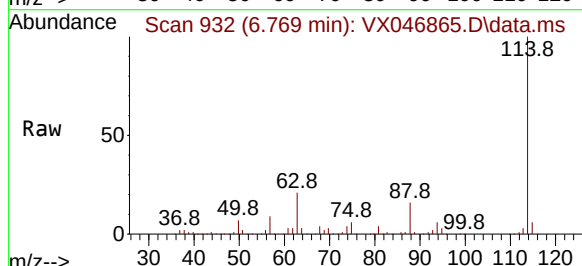
Tgt Ion:114 Resp: 564585

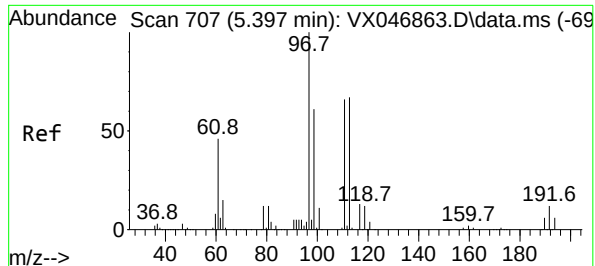
Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.4

88 15.7 0.0 31.0





#35

Dibromofluoromethane

Concen: 143.554 ug/l

RT: 5.391 min Scan# 707

Delta R.T. -0.006 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:113 Resp: 550160

Ion Ratio Lower Upper

113 100

111 102.4 81.2 121.8

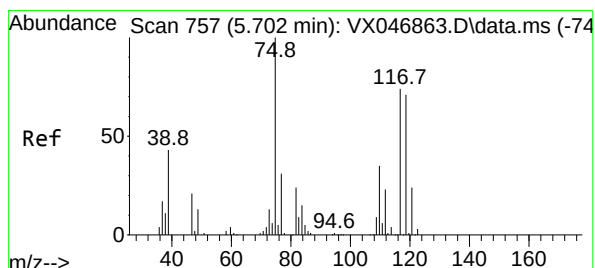
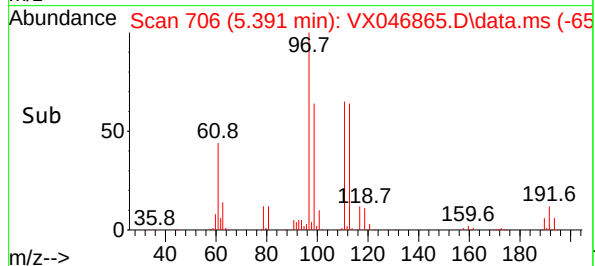
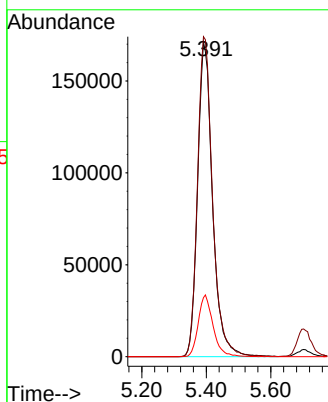
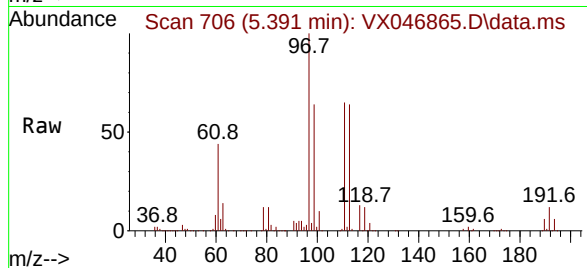
192 19.4 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#36

1,1-Dichloropropene

Concen: 142.995 ug/l

RT: 5.702 min Scan# 757

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

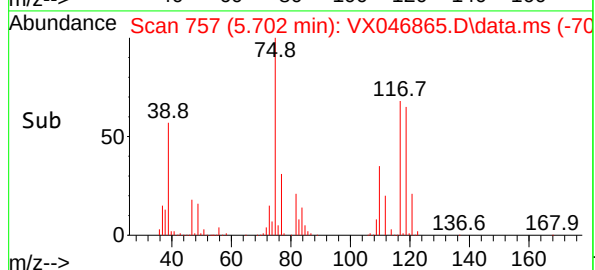
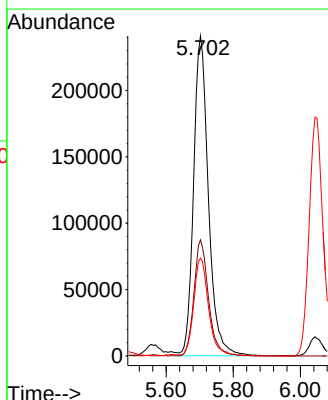
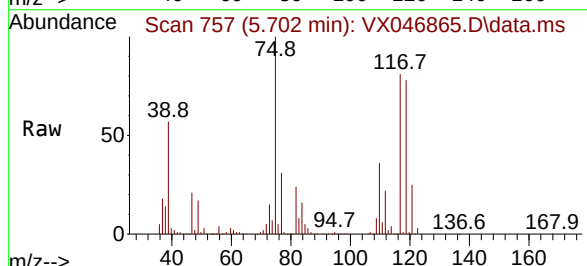
Tgt Ion: 75 Resp: 739394

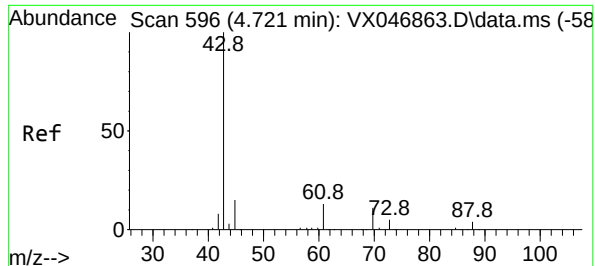
Ion Ratio Lower Upper

75 100

110 35.6 17.3 51.9

77 30.8 24.2 36.4





#37

Ethyl Acetate

Concen: 143.396 ug/l

RT: 4.721 min Scan# 596

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 63152

Ion Ratio Lower Upper

43 100

61 13.3 9.7 14.5

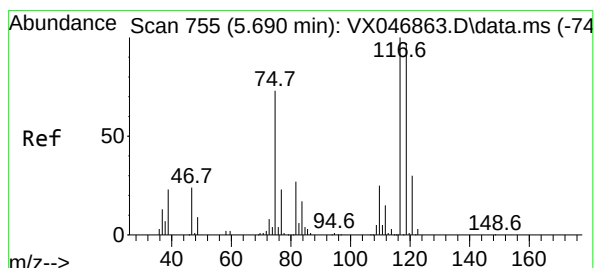
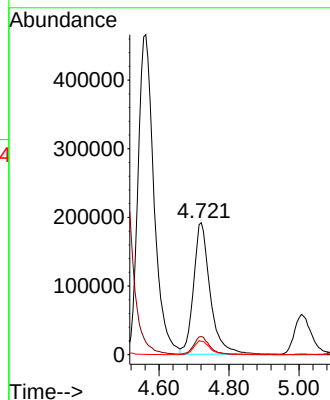
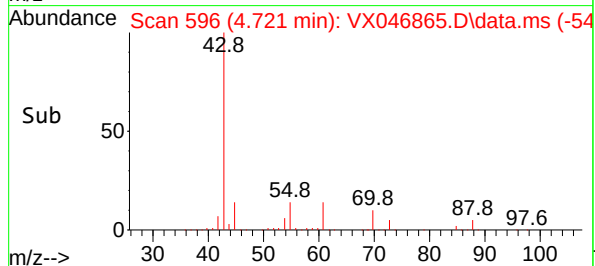
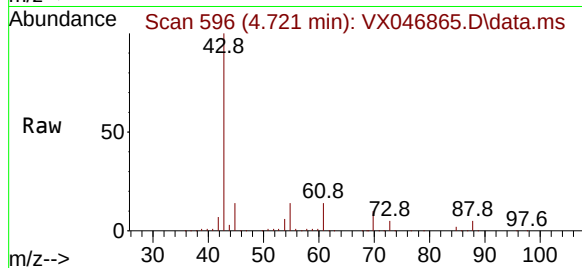
70 10.2 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#38

Carbon Tetrachloride

Concen: 146.250 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

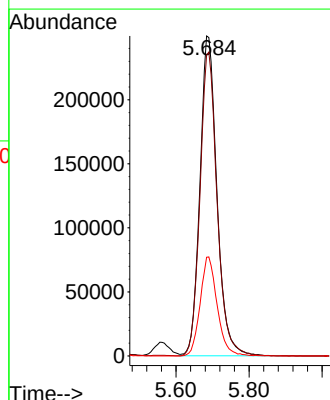
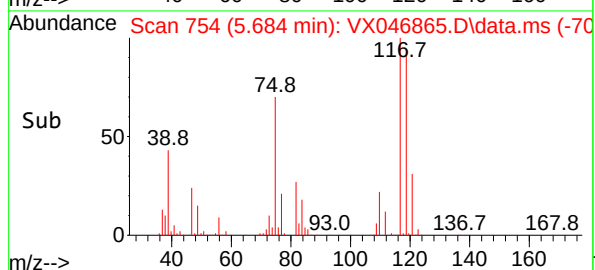
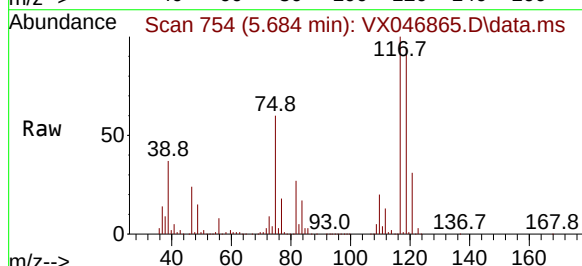
Tgt Ion:117 Resp: 809906

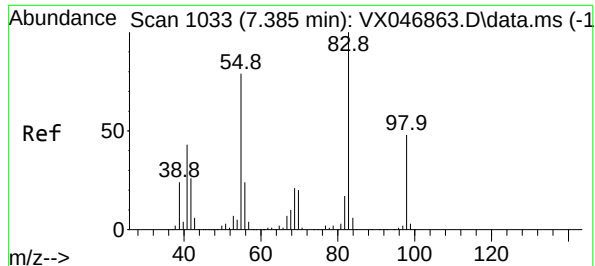
Ion Ratio Lower Upper

117 100

119 94.0 76.6 114.8

121 30.8 24.1 36.1





#39

Methylcyclohexane

Concen: 150.724 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 83 Resp: 97490

Ion Ratio Lower Upper

83 100

55 78.3 63.0 94.4

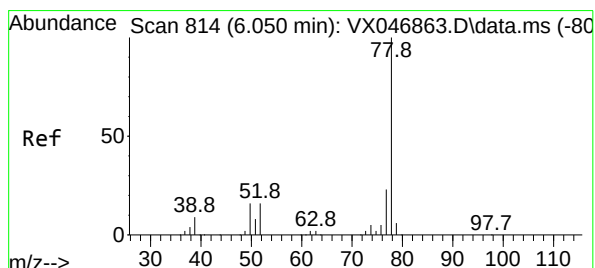
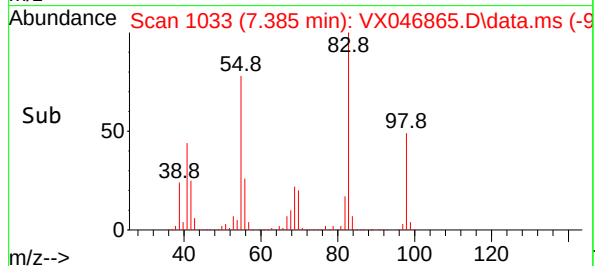
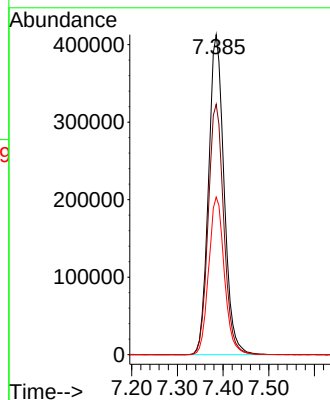
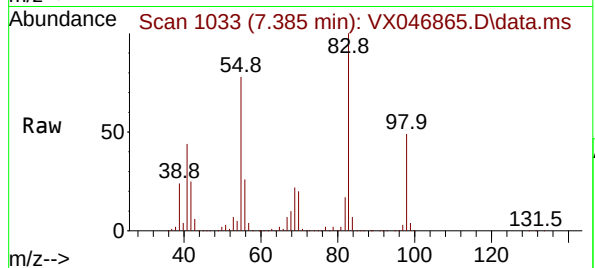
98 49.2 38.5 57.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#40

Benzene

Concen: 143.418 ug/l

RT: 6.043 min Scan# 813

Delta R.T. -0.006 min

Lab File: VX046865.D

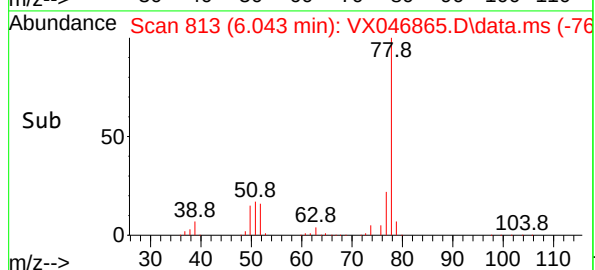
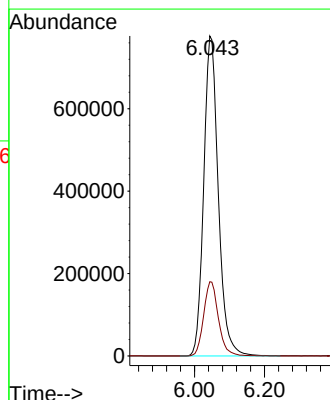
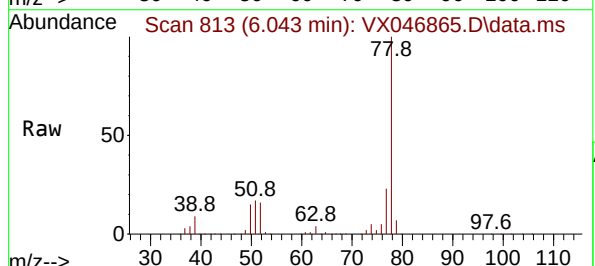
Acq: 02 Jul 2025 14:31

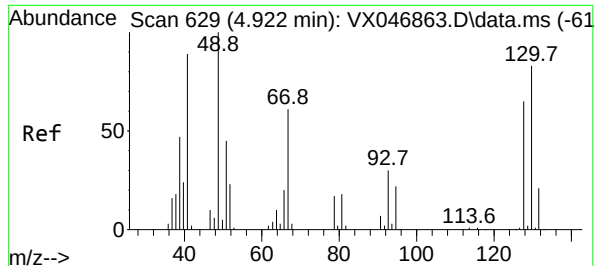
Tgt Ion: 78 Resp: 2243029

Ion Ratio Lower Upper

78 100

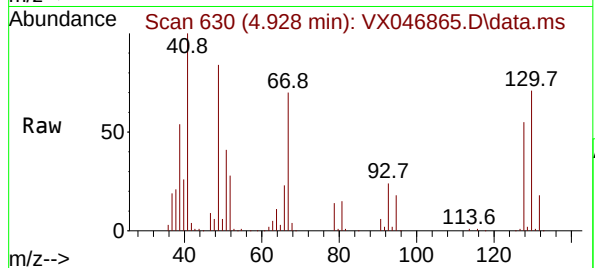
77 23.2 18.7 28.1





#41
Methacrylonitrile
Concen: 159.945 ug/l
RT: 4.928 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

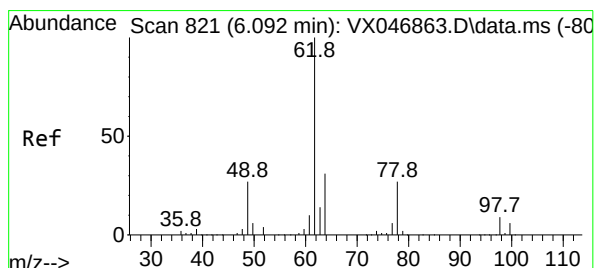
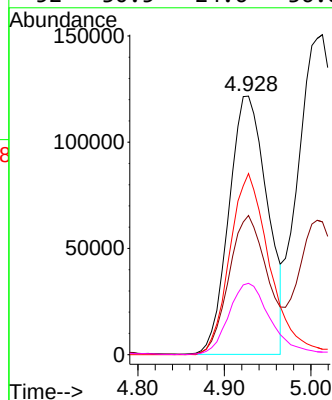
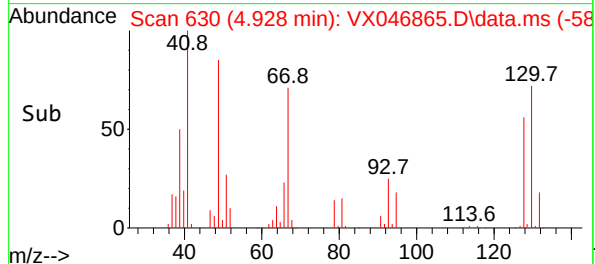
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 41 Resp: 37576
Ion Ratio Lower Upper
41 100
39 55.2 43.0 64.4
67 73.9 60.2 90.2
52 30.5 24.6 36.8

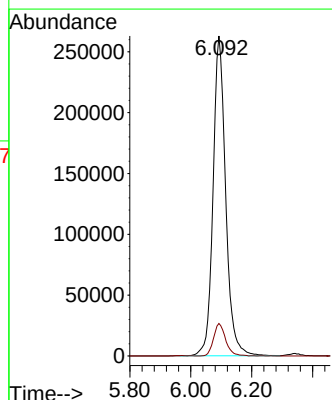
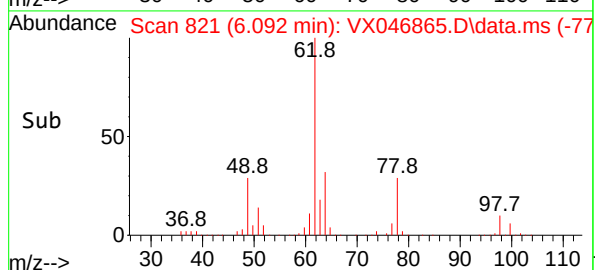
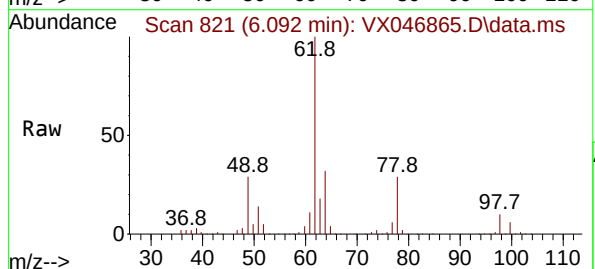
Manual Integrations
APPROVED

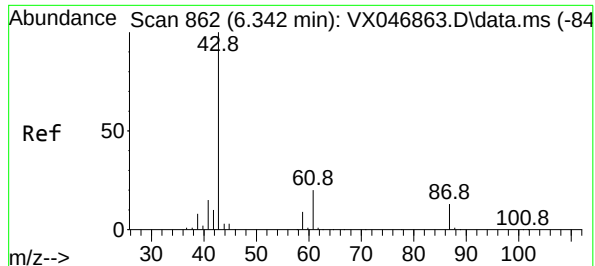
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#42
1,2-Dichloroethane
Concen: 142.387 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Tgt Ion: 62 Resp: 756183
Ion Ratio Lower Upper
62 100
98 9.8 0.0 19.4





#43

Isopropyl Acetate

Concen: 163.711 ug/l

RT: 6.342 min Scan# 862

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 110433

Ion Ratio Lower Upper

43

100

61

19.8

87

12.7

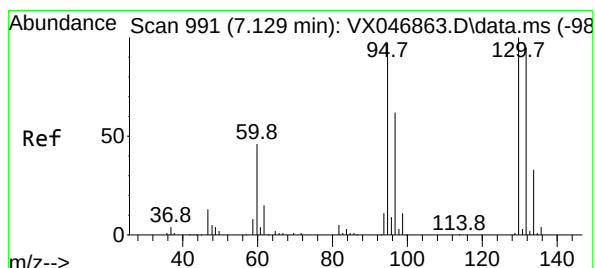
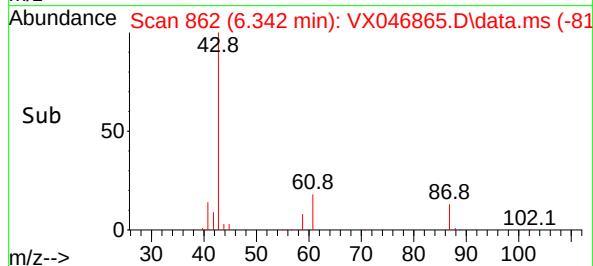
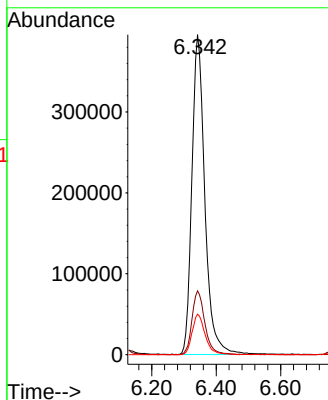
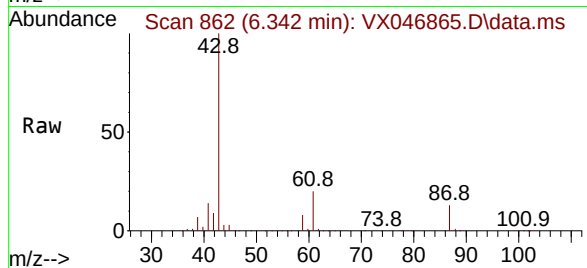
15.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#44

Trichloroethene

Concen: 143.298 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Tgt Ion:130 Resp: 583397

Ion Ratio Lower Upper

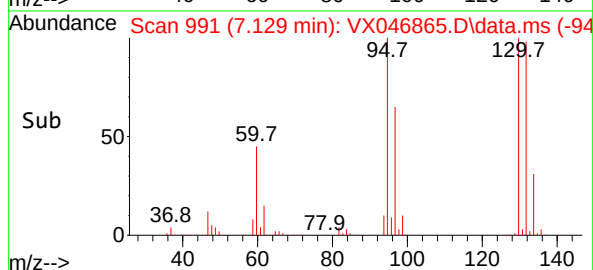
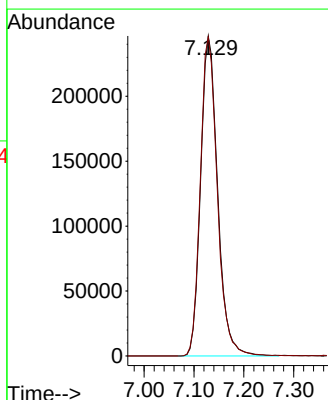
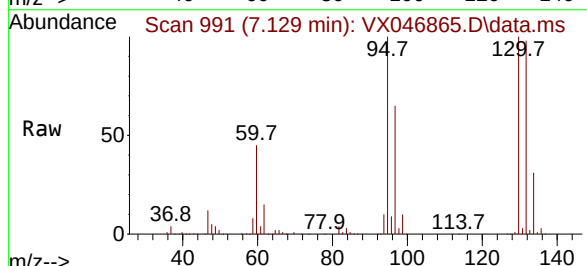
130

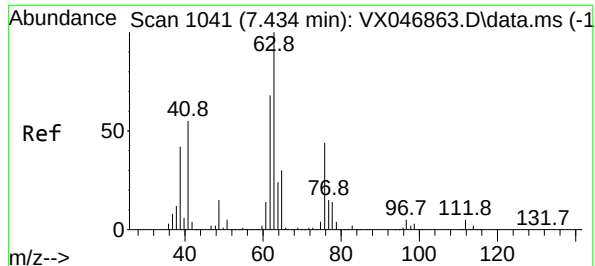
100

95

99.7

194.2





#45

1,2-Dichloropropane

Concen: 146.587 ug/l

RT: 7.433 min Scan# 1041

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 63 Resp: 579224

Ion Ratio Lower Upper

63 100

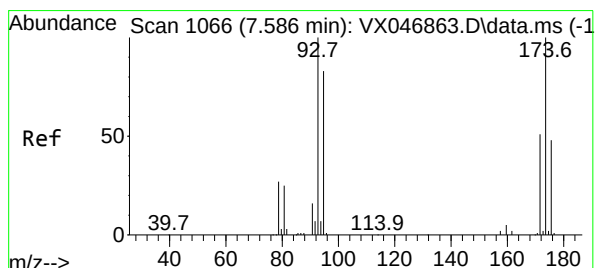
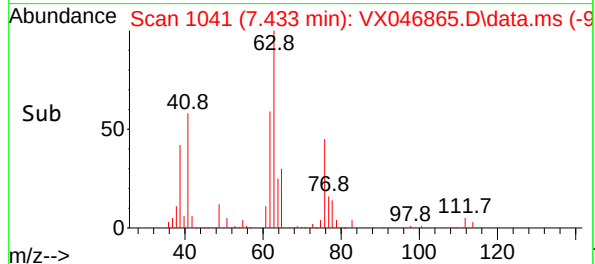
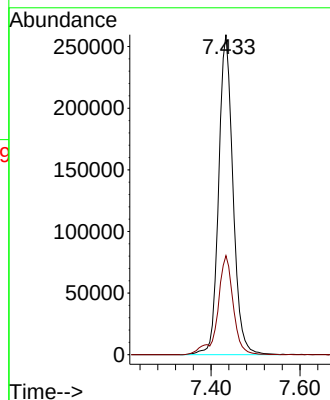
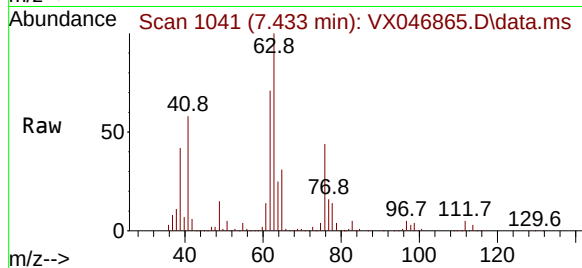
65 30.9 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#46

Dibromomethane

Concen: 146.592 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

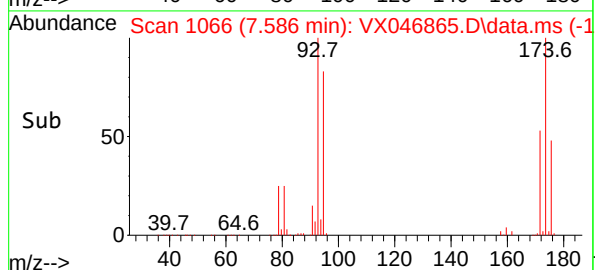
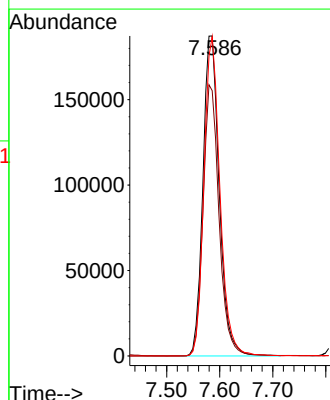
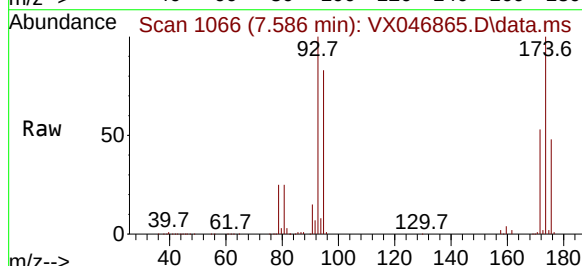
Tgt Ion: 93 Resp: 401338

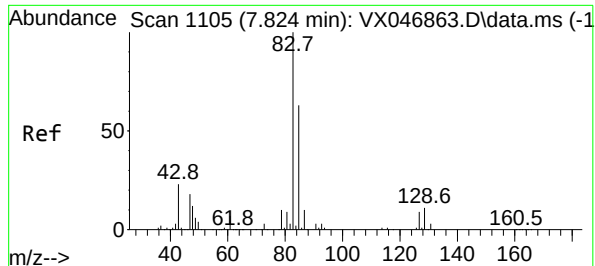
Ion Ratio Lower Upper

93 100

95 82.9 66.6 99.8

174 97.7 77.4 116.2





#47

Bromodichloromethane

Concen: 146.803 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

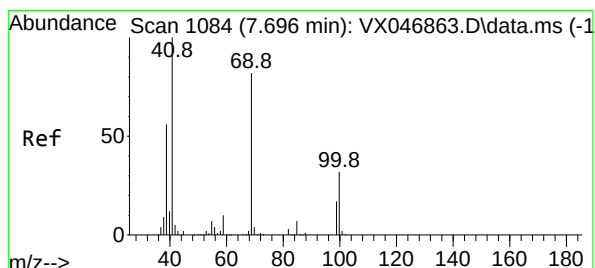
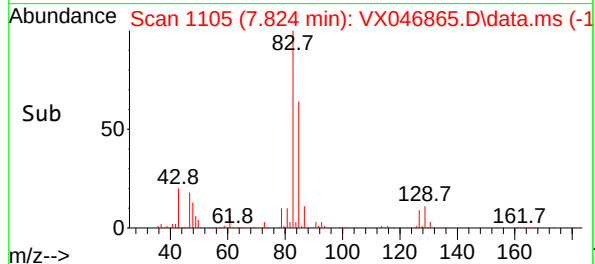
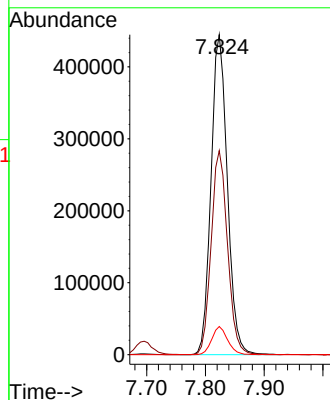
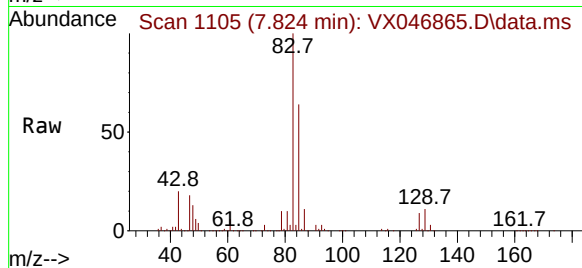
VSTDICC150

Tgt Ion:	83	Resp:	85818
Ion	Ratio	Lower	Upper
83	100		
85	63.7	50.2	75.4
127	8.8	7.1	10.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#48

Methyl methacrylate

Concen: 166.693 ug/l

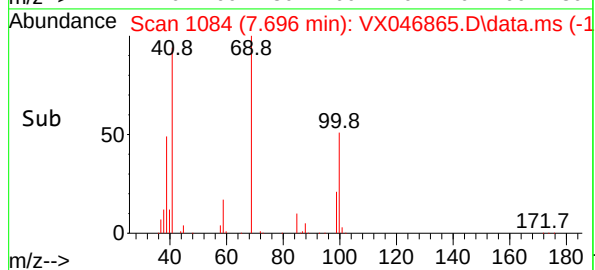
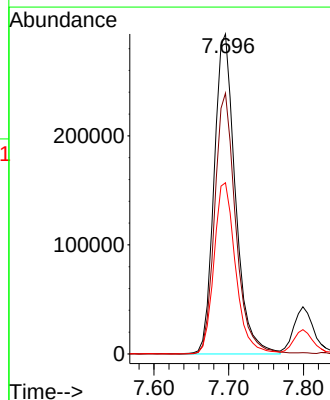
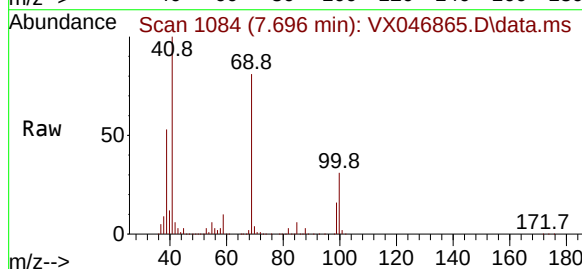
RT: 7.696 min Scan# 1084

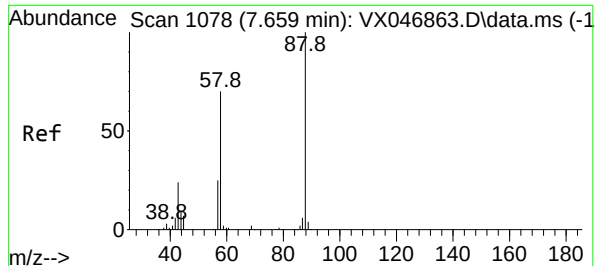
Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Tgt Ion:	41	Resp:	580607
Ion	Ratio	Lower	Upper
41	100		
69	80.5	65.8	98.8
39	54.3	43.8	65.6





#49

1,4-Dioxane

Concen: 3040.136 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 88 Resp: 12269

Ion Ratio Lower Upper

88 100

43 37.6 31.7 47.5

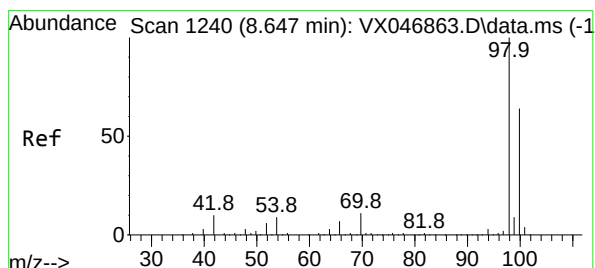
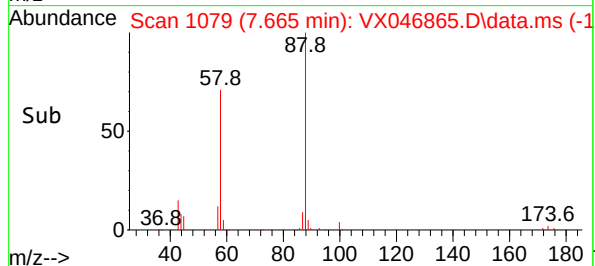
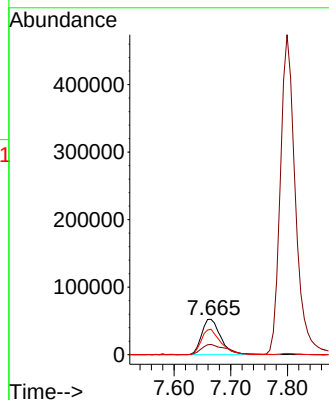
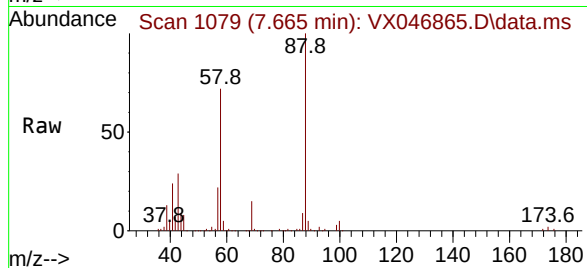
58 73.4 57.5 86.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#50

Toluene-d8

Concen: 142.230 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.006 min

Lab File: VX046865.D

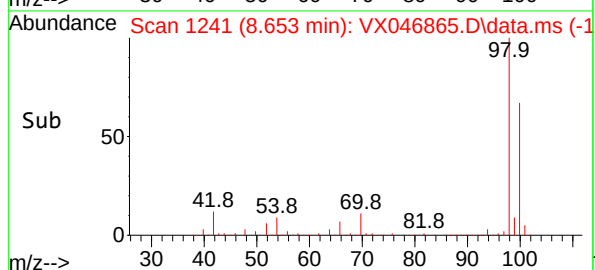
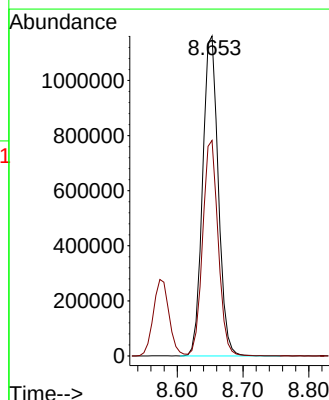
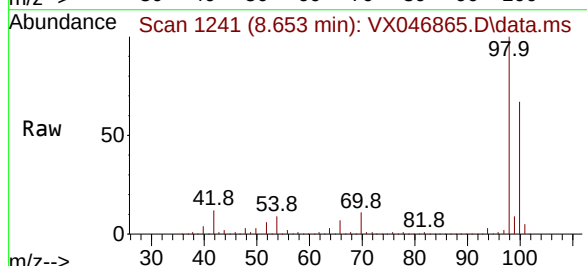
Acq: 02 Jul 2025 14:31

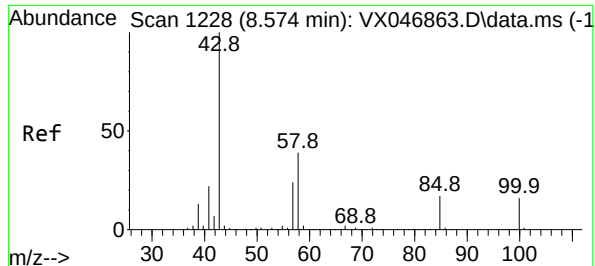
Tgt Ion: 98 Resp: 1923179

Ion Ratio Lower Upper

98 100

100 66.5 53.0 79.6





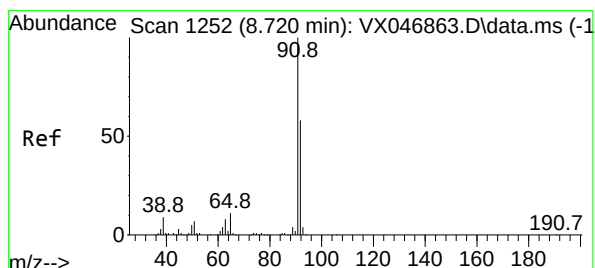
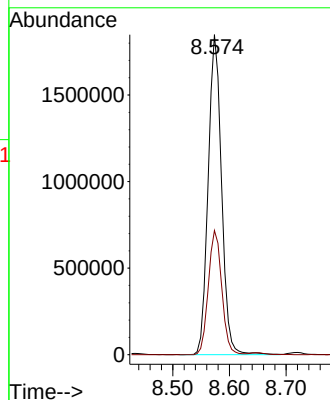
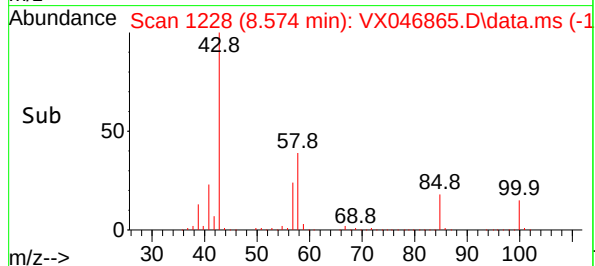
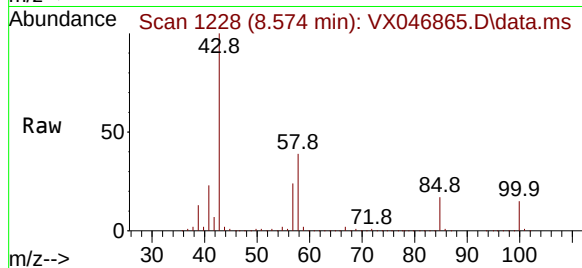
#51
4-Methyl-2-Pentanone
Concen: 760.332 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 302694
Ion Ratio Lower Upper
43 100
58 39.0 30.4 45.6

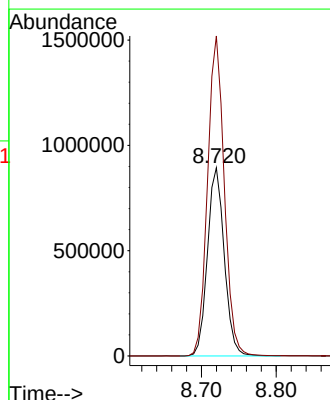
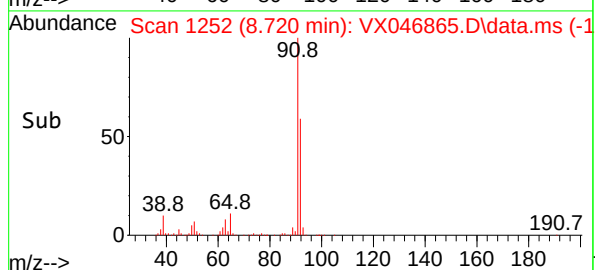
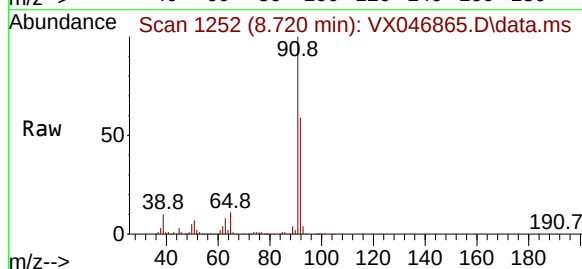
Manual Integrations
APPROVED

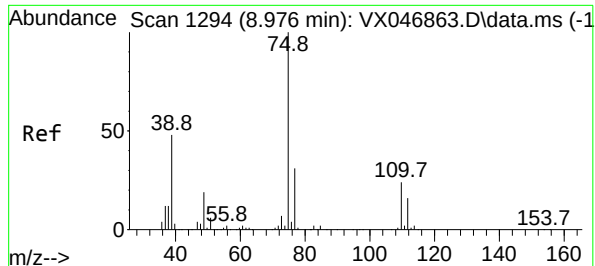
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#52
Toluene
Concen: 143.918 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Tgt Ion: 92 Resp: 1394797
Ion Ratio Lower Upper
92 100
91 169.5 137.9 206.9





#53

t-1,3-Dichloropropene

Concen: 163.503 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 85301

Ion Ratio Lower Upper

75 100

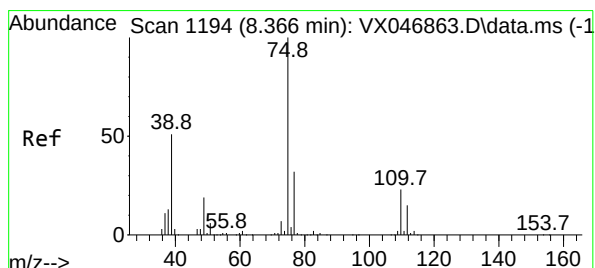
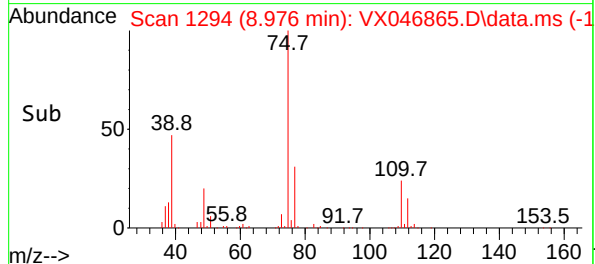
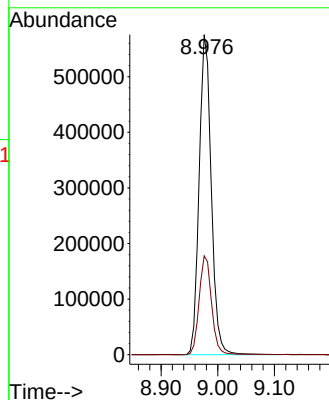
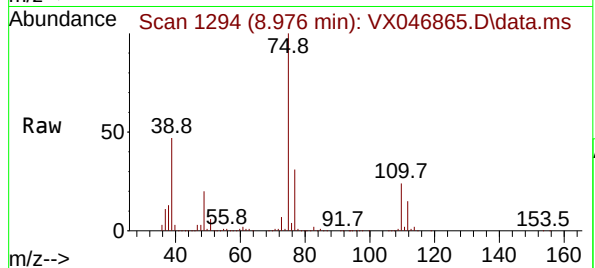
77 30.9 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#54

cis-1,3-Dichloropropene

Concen: 157.682 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

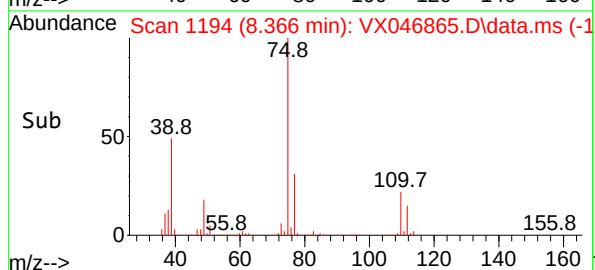
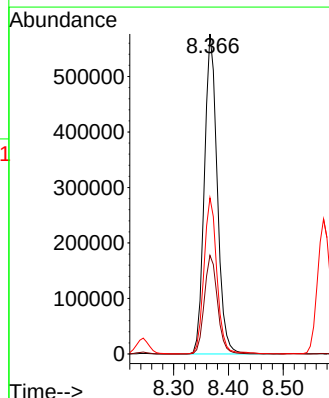
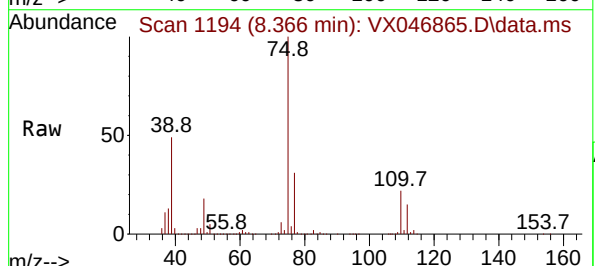
Tgt Ion: 75 Resp: 939003

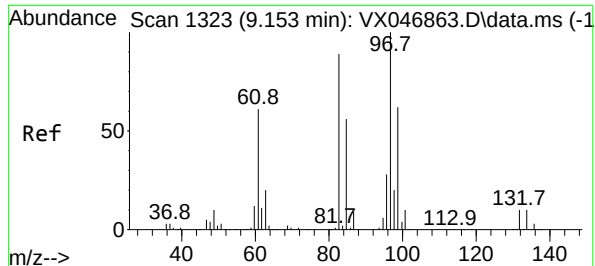
Ion Ratio Lower Upper

75 100

77 30.8 25.4 38.2

39 48.5 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 144.574 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 97 Resp: 521889

Ion Ratio Lower Upper

97 100

83 84.7 70.9 106.3

85 54.8 44.6 67.0

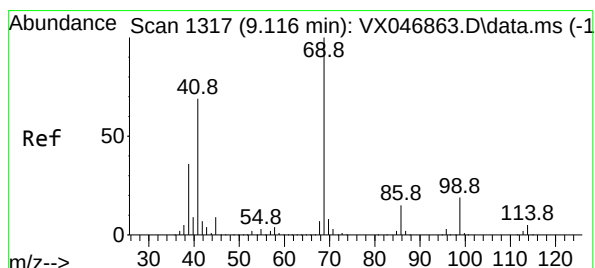
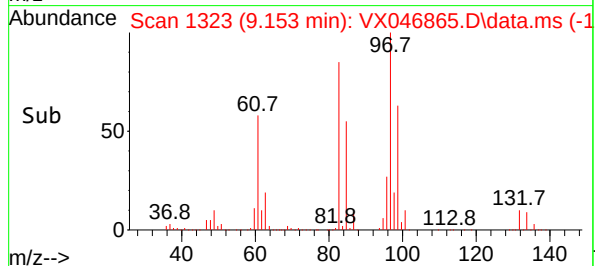
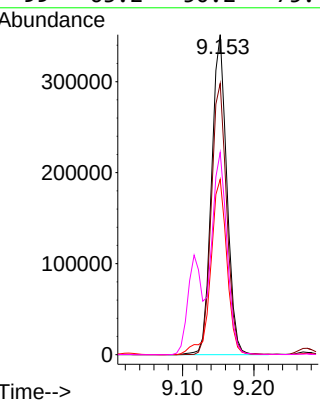
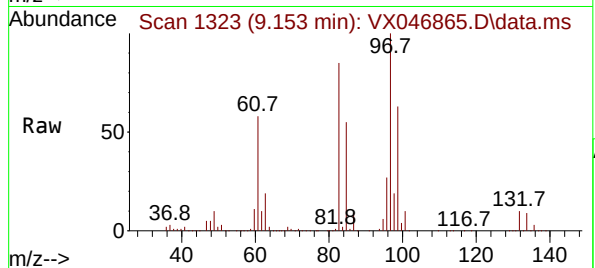
99 63.2 50.2 75.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#56

Ethyl methacrylate

Concen: 163.362 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

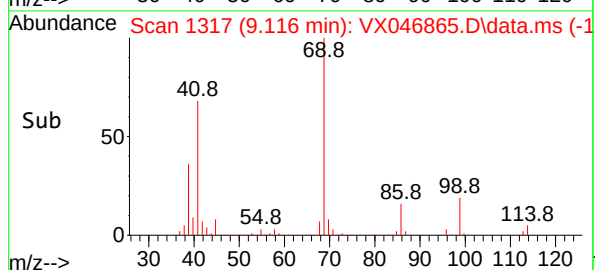
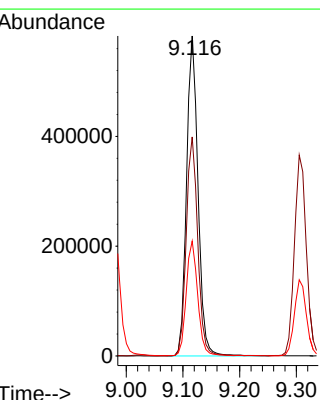
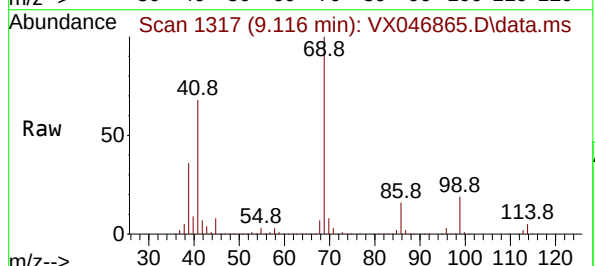
Tgt Ion: 69 Resp: 816206

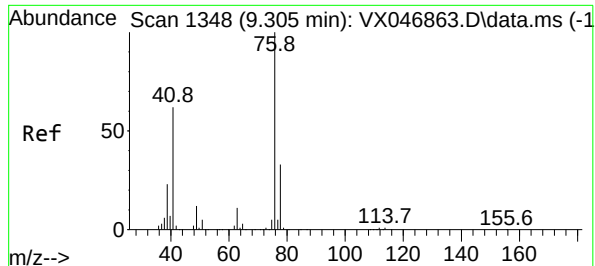
Ion Ratio Lower Upper

69 100

41 68.7 54.6 82.0

39 35.8 28.7 43.1





#57

1,3-Dichloropropane

Concen: 143.699 ug/l

RT: 9.305 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 76 Resp: 89321

Ion Ratio Lower Upper

76 100

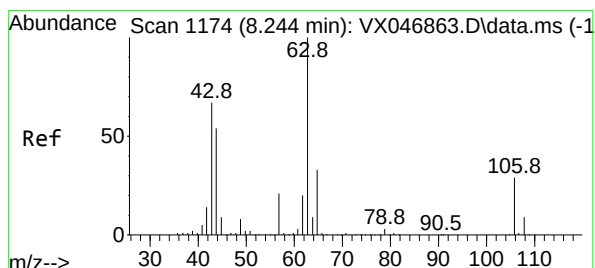
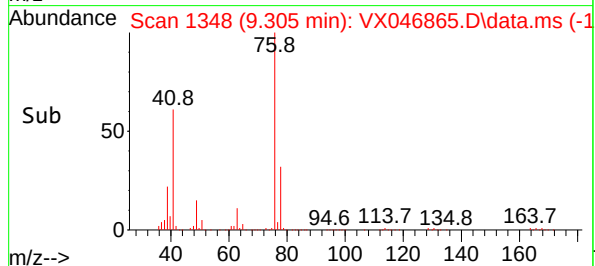
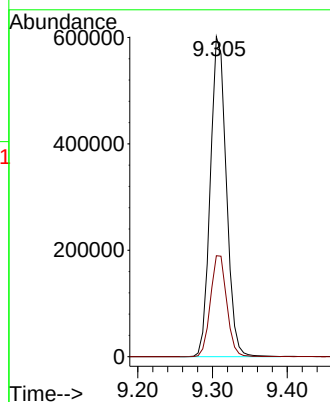
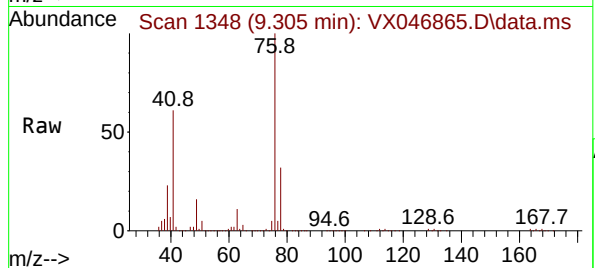
78 32.2 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#58

2-Chloroethyl Vinyl ether

Concen: 778.743 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. -0.000 min

Lab File: VX046865.D

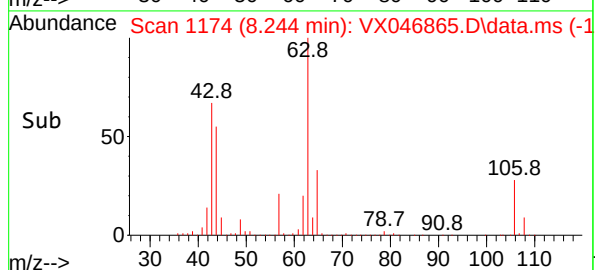
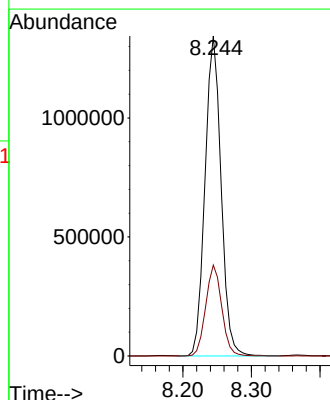
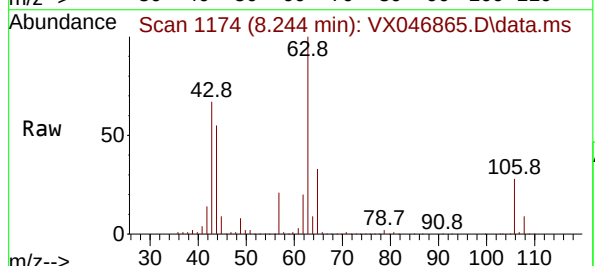
Acq: 02 Jul 2025 14:31

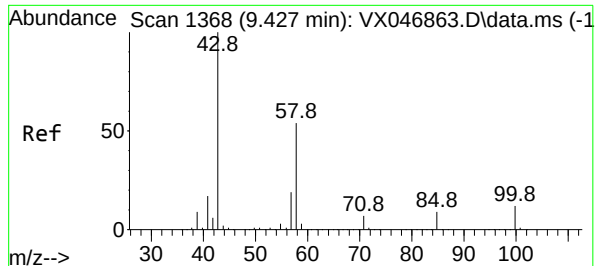
Tgt Ion: 63 Resp: 2192288

Ion Ratio Lower Upper

63 100

106 28.4 22.6 33.8





#59

2-Hexanone

Concen: 776.972 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 205171

Ion Ratio Lower Upper

43 100

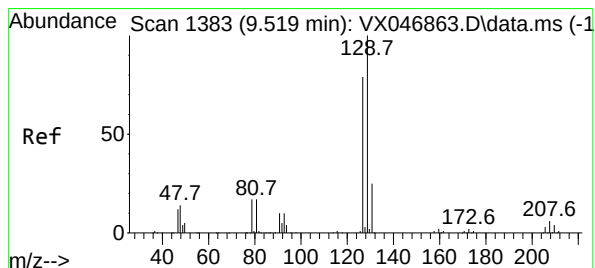
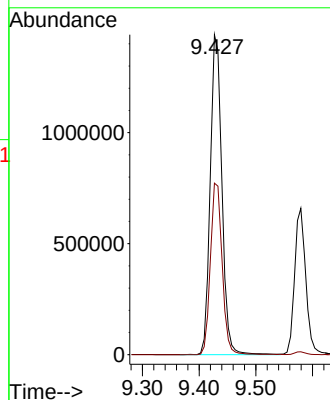
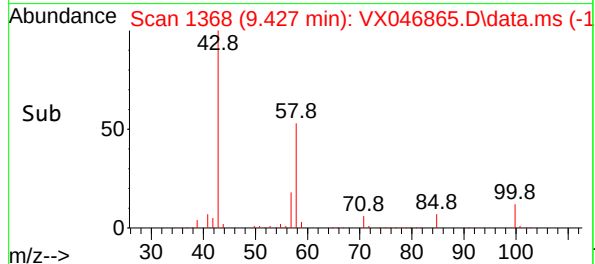
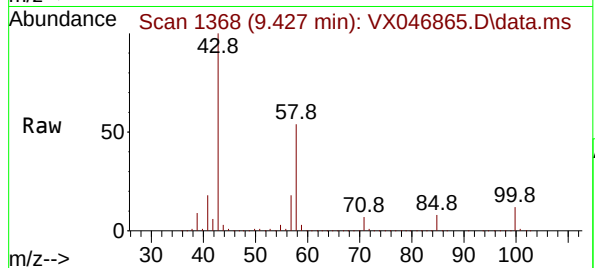
58 54.2 27.1 81.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#60

Dibromochloromethane

Concen: 147.623 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX046865.D

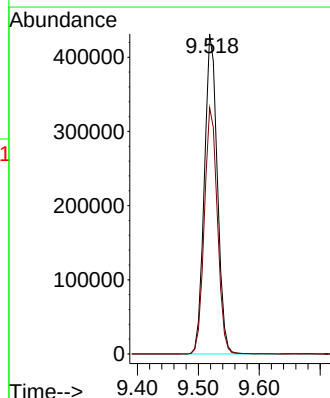
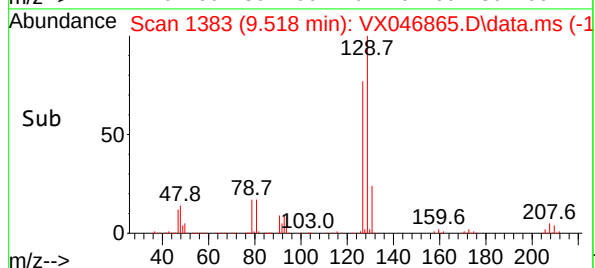
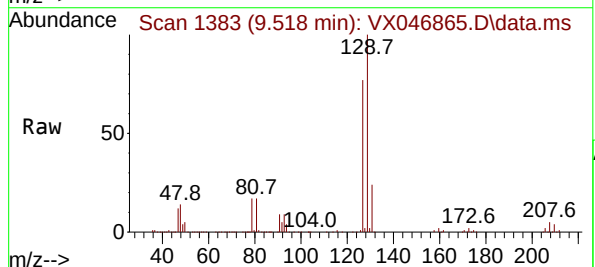
Acq: 02 Jul 2025 14:31

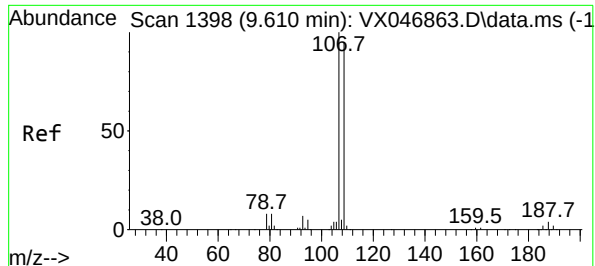
Tgt Ion:129 Resp: 637739

Ion Ratio Lower Upper

129 100

127 77.4 39.1 117.5





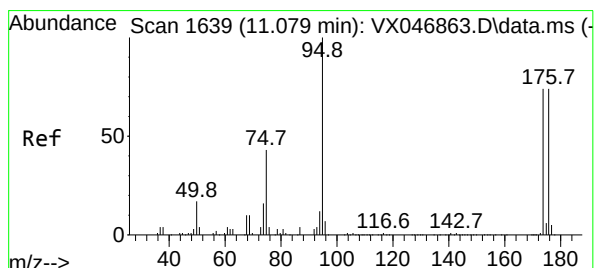
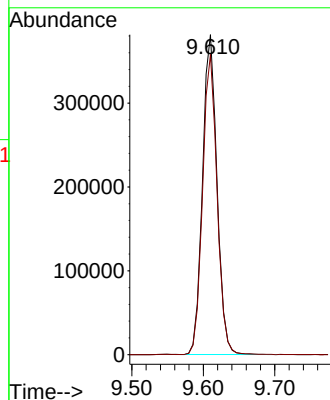
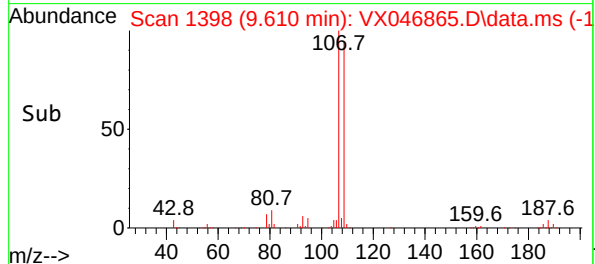
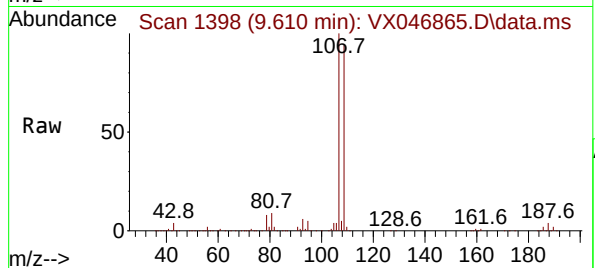
#61
1,2-Dibromoethane
Concen: 148.009 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:107 Resp: 536592
Ion Ratio Lower Upper
107 100
109 94.0 75.4 113.2

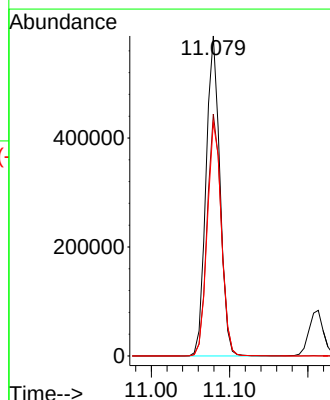
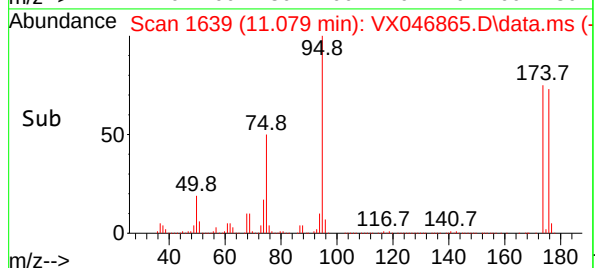
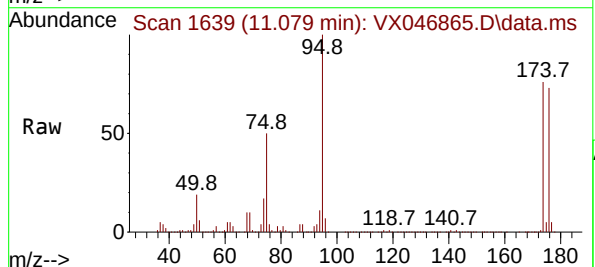
Manual Integrations
APPROVED

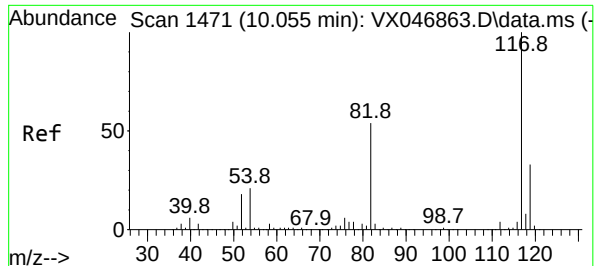
Reviewed By :John Carbone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#62
4-Bromofluorobenzene
Concen: 140.303 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Tgt Ion: 95 Resp: 721016
Ion Ratio Lower Upper
95 100
174 76.4 0.0 152.0
176 74.2 0.0 145.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:117 Resp: 498758

Ion Ratio Lower Upper

117 100

82 54.7 43.3 64.9

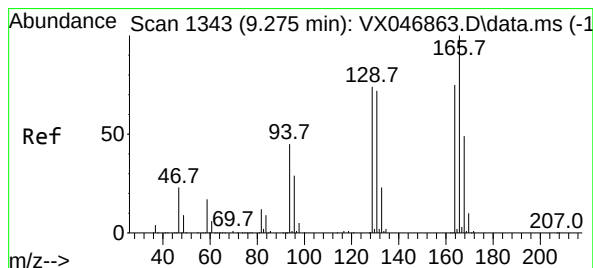
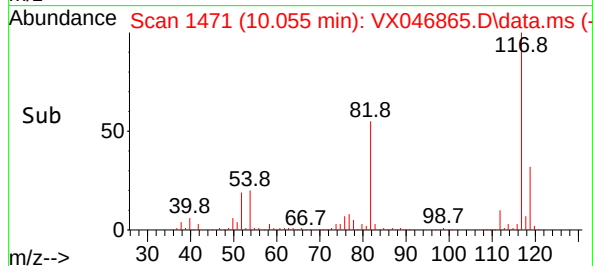
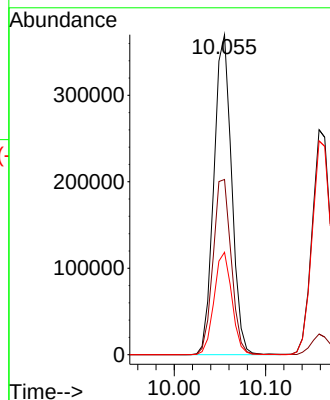
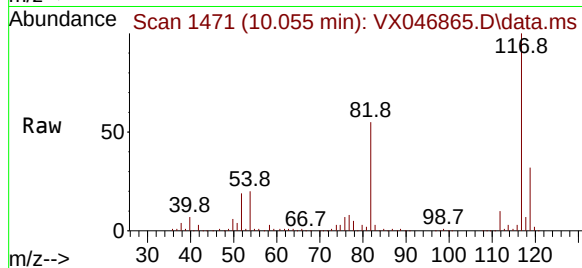
119 32.0 26.4 39.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#64

Tetrachloroethene

Concen: 143.265 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Tgt Ion:164 Resp: 475745

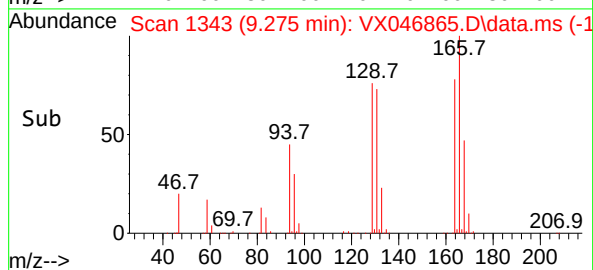
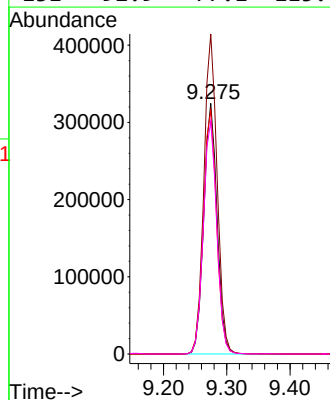
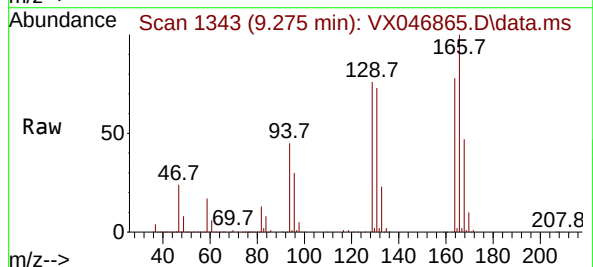
Ion Ratio Lower Upper

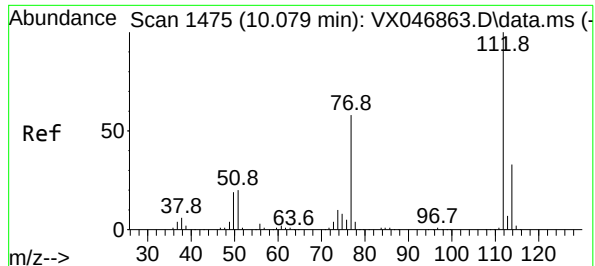
164 100

166 127.8 107.0 160.6

129 97.2 79.7 119.5

131 92.9 77.1 115.7





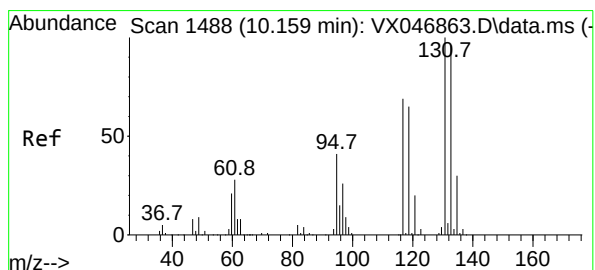
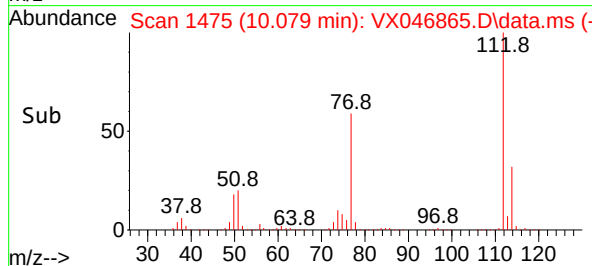
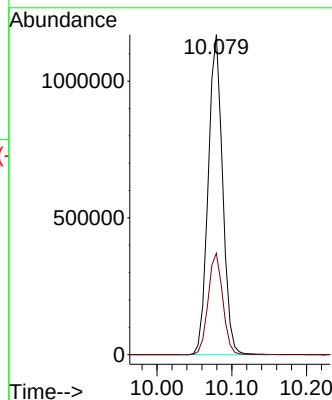
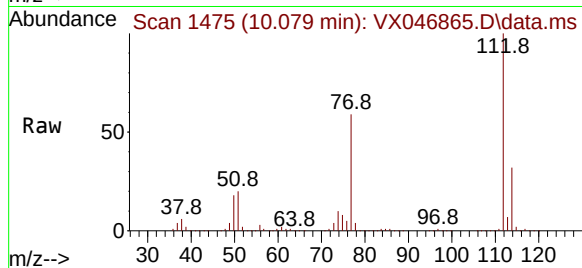
#65
Chlorobenzene
Concen: 144.986 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 156343
Ion Ratio Lower Upper
112 100
114 31.7 26.3 39.5

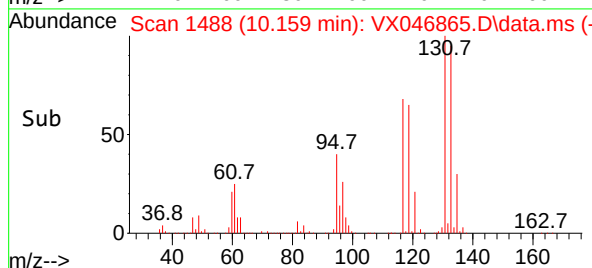
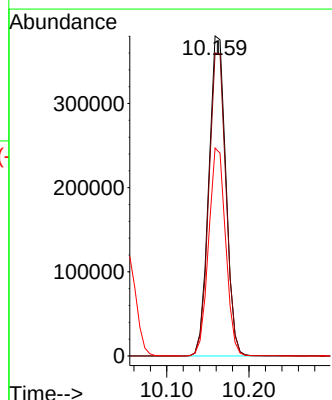
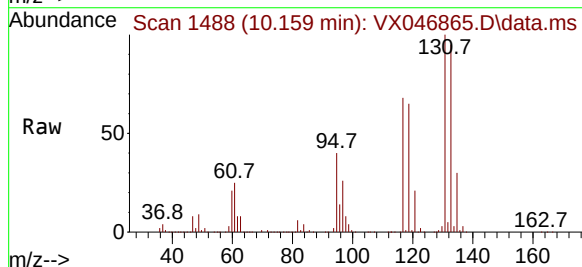
Manual Integrations
APPROVED

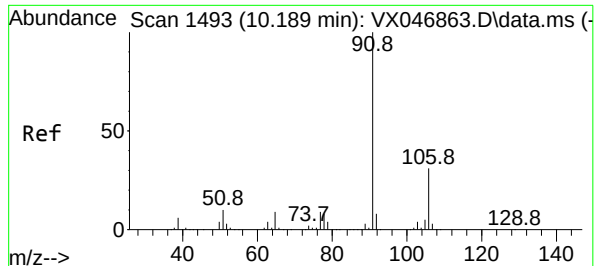
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 151.325 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Tgt Ion:131 Resp: 548552
Ion Ratio Lower Upper
131 100
133 95.1 47.6 142.9
119 64.8 32.4 97.2





#67

Ethyl Benzene

Concen: 147.809 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.006 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 272955

Ion Ratio Lower Upper

91 100

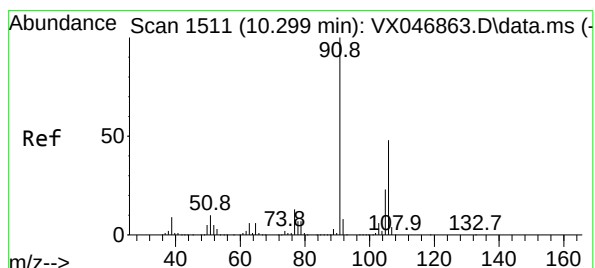
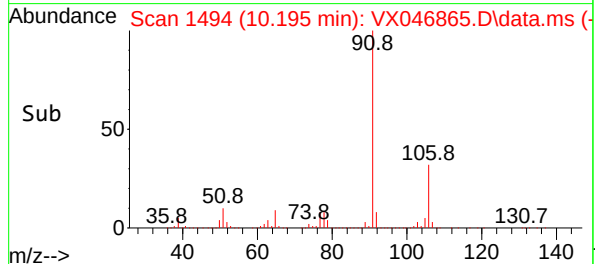
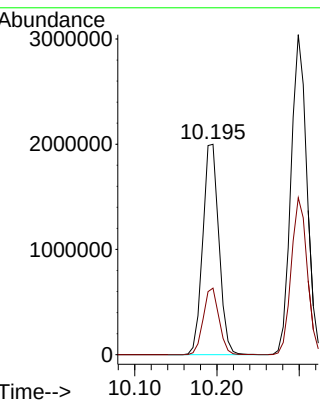
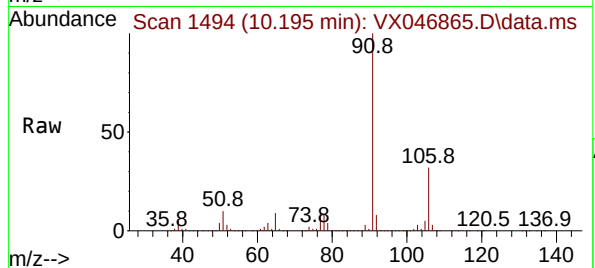
106 31.6 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#68

m/p-Xylenes

Concen: 288.799 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX046865.D

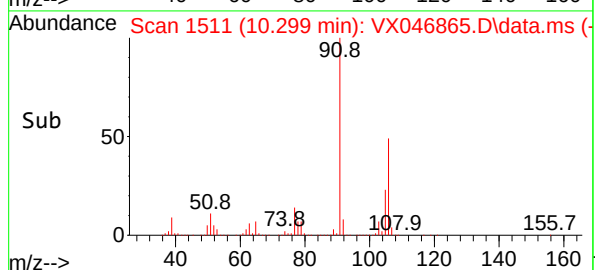
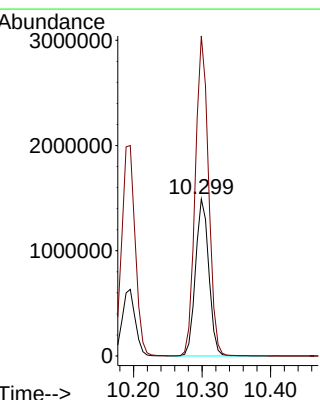
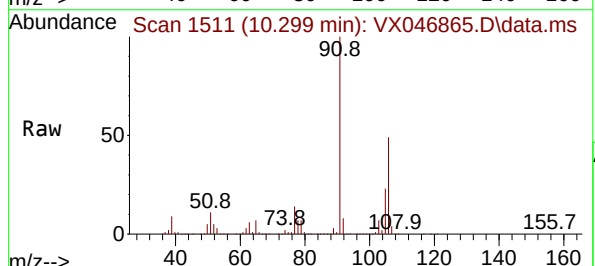
Acq: 02 Jul 2025 14:31

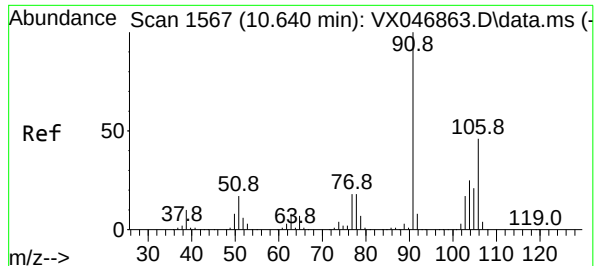
Tgt Ion:106 Resp: 2009645

Ion Ratio Lower Upper

106 100

91 203.5 164.6 246.8





#69

o-Xylene

Concen: 146.856 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:106 Resp: 987134

Ion Ratio Lower Upper

106 100

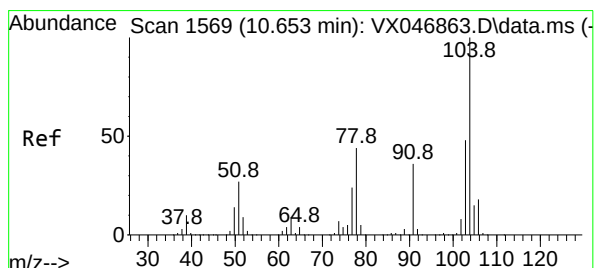
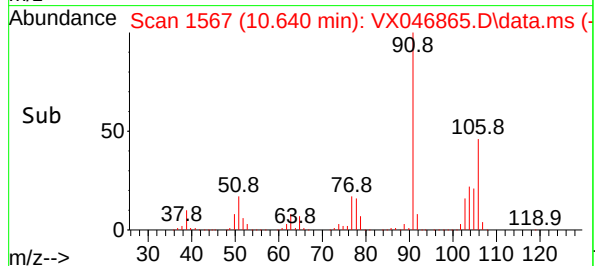
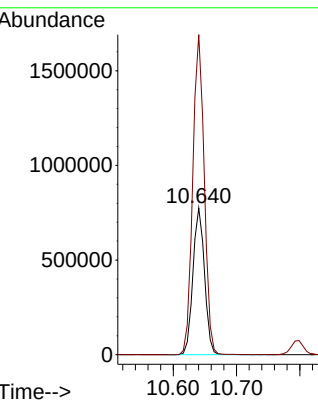
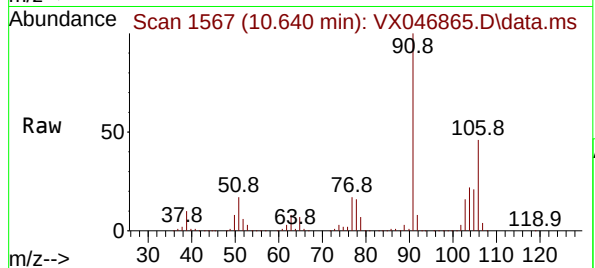
91 217.0 109.5 328.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#70

Styrene

Concen: 147.567 ug/l

RT: 10.652 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

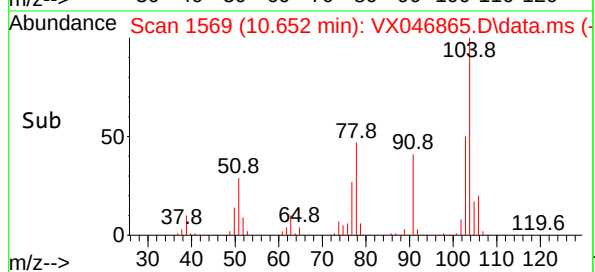
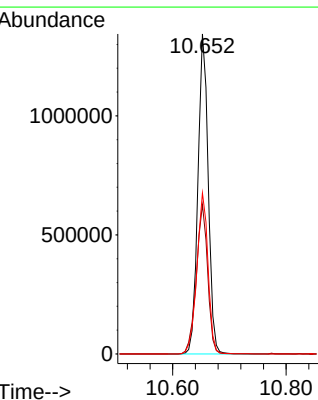
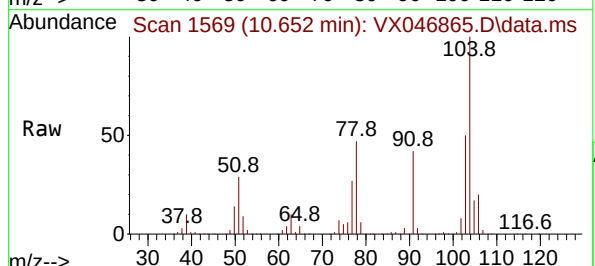
Tgt Ion:104 Resp: 1697064

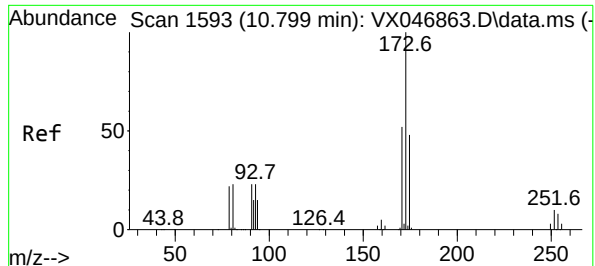
Ion Ratio Lower Upper

104 100

78 51.3 40.3 60.5

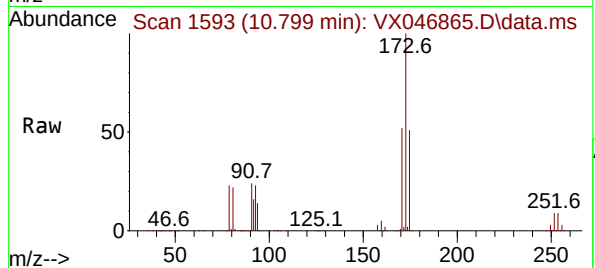
103 54.7 42.8 64.2





#71
Bromoform
Concen: 152.584 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

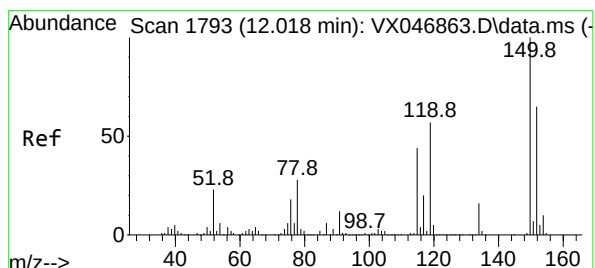
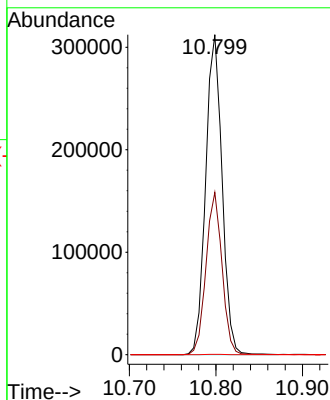
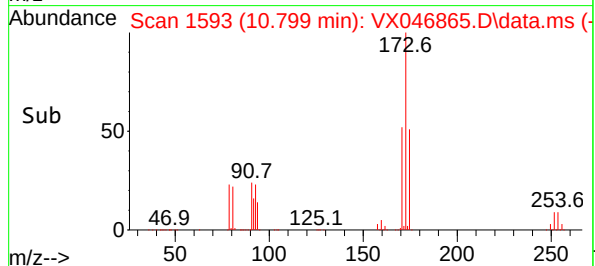
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



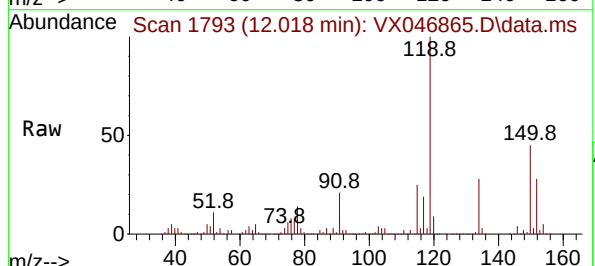
Tgt Ion:173 Resp: 411264
Ion Ratio Lower Upper
173 100
175 49.6 23.8 71.5
254 0.1 0.1 0.1

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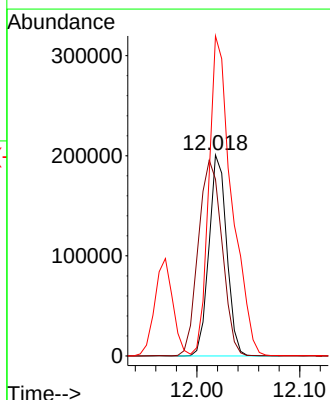
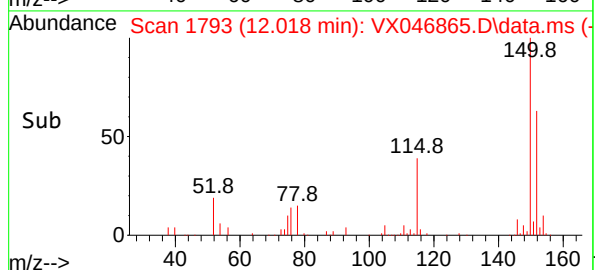
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

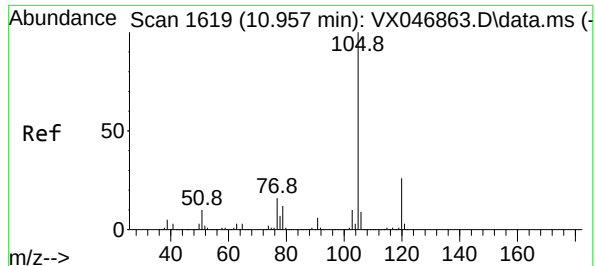


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31



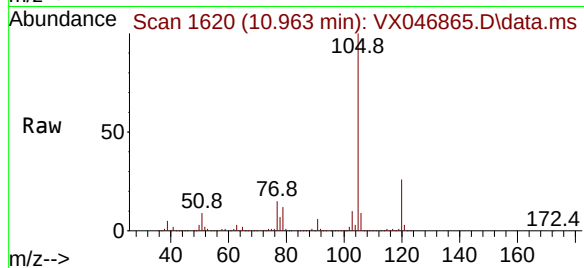
Tgt Ion:152 Resp: 240348
Ion Ratio Lower Upper
152 100
115 131.0 42.4 127.1#
150 206.4 0.0 349.2





#73
Isopropylbenzene
Concen: 153.200 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.006 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

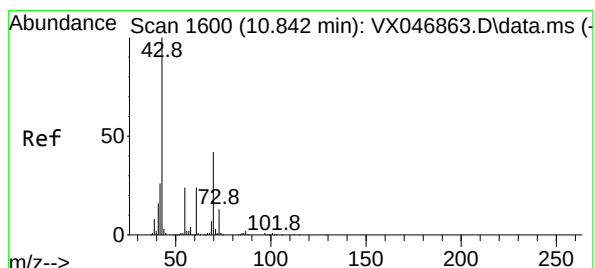
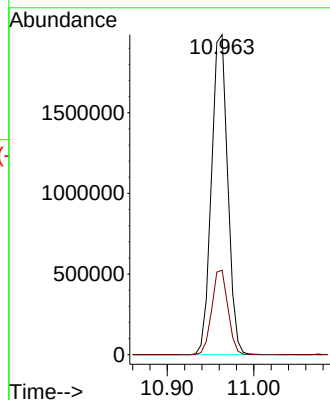
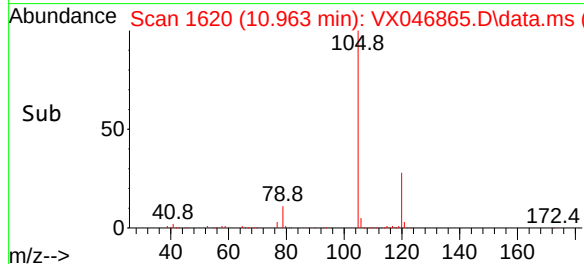
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:105 Resp: 258844
Ion Ratio Lower Upper
105 100
120 26.2 13.2 39.5

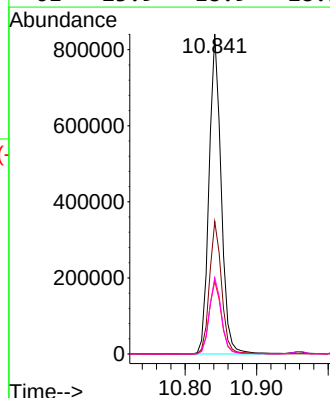
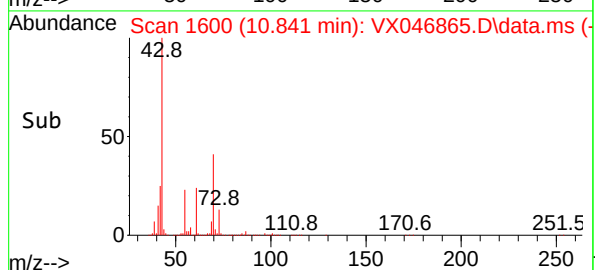
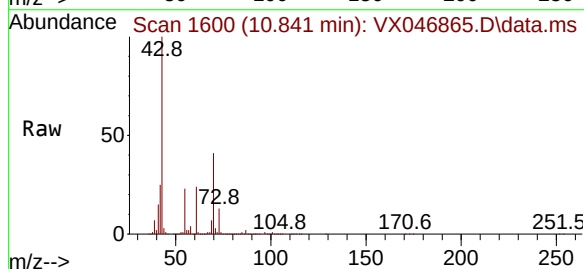
Manual Integrations
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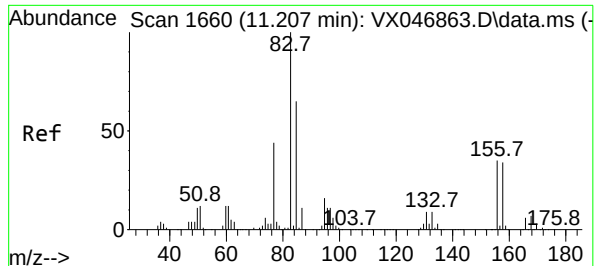
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#74
N-ethyl acetate
Concen: 171.738 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Tgt Ion: 43 Resp: 986018
Ion Ratio Lower Upper
43 100
70 41.6 33.4 50.2
55 23.3 19.6 29.4
61 23.9 18.9 28.3





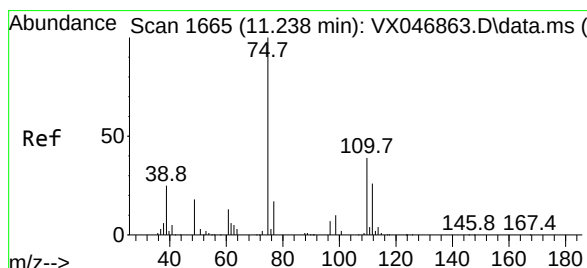
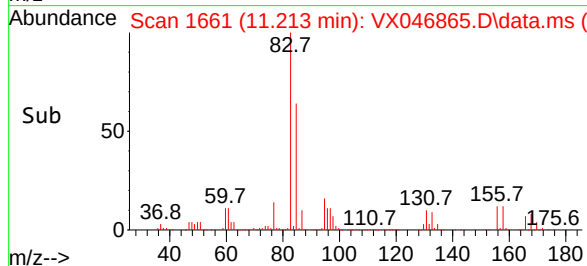
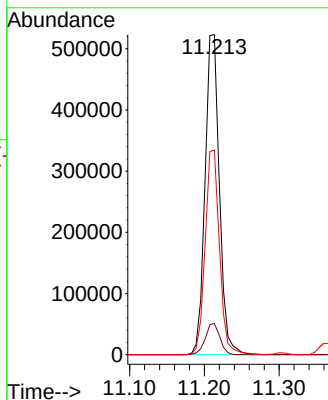
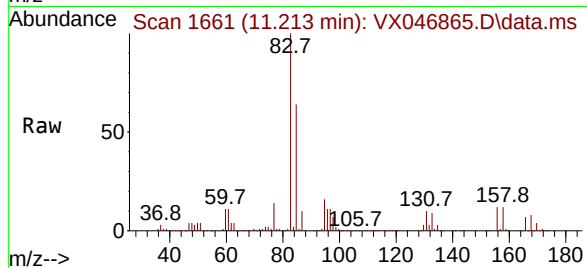
#75
1,1,2,2-Tetrachloroethane
Concen: 150.263 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.006 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 83 Resp: 69810
Ion Ratio Lower Upper
83 100
131 9.9 5.0 14.9
85 64.0 32.1 96.5

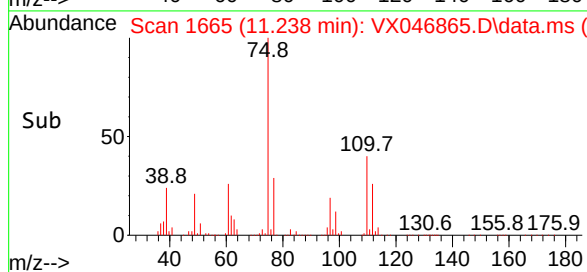
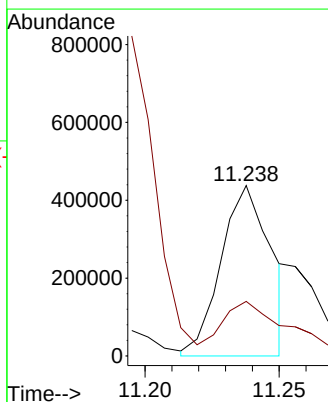
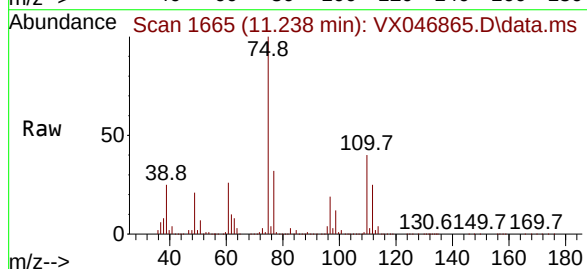
Manual Integrations
APPROVED

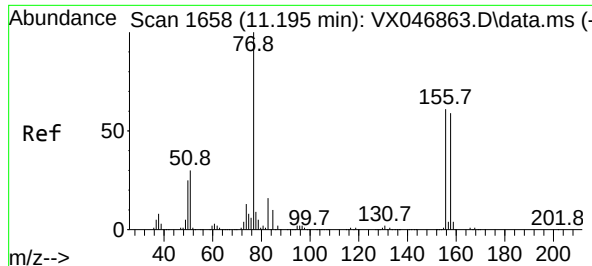
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#76
1,2,3-Trichloropropane
Concen: 152.717 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

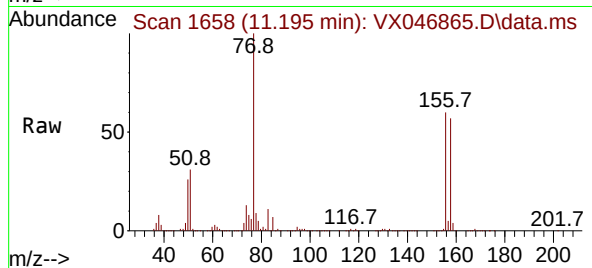
Tgt Ion: 75 Resp: 567147
Ion Ratio Lower Upper
75 100
77 43.1 20.6 61.8





#77
Bromobenzene
Concen: 149.454 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

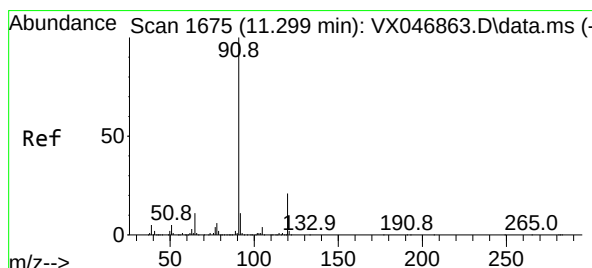
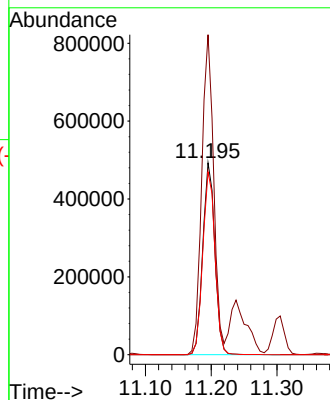
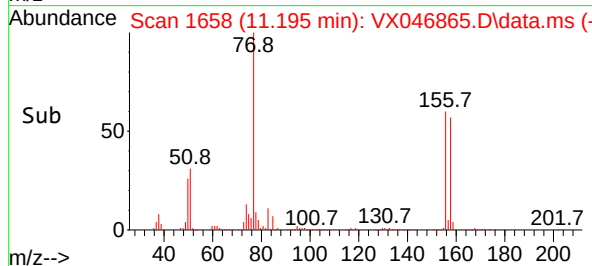
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:156 Resp: 628974
Ion Ratio Lower Upper
156 100
77 165.4 82.3 247.0
158 96.8 47.5 142.6

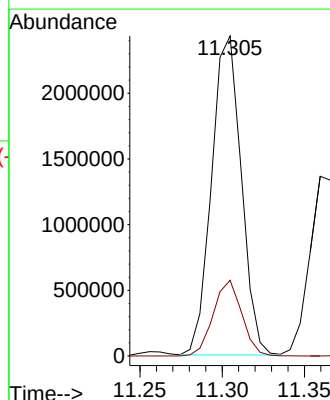
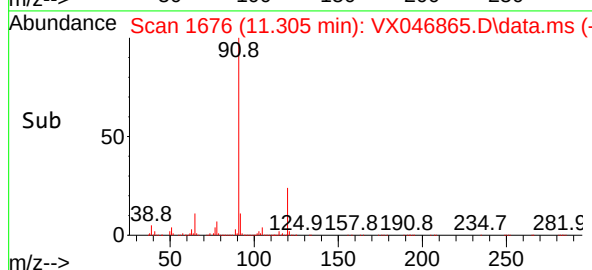
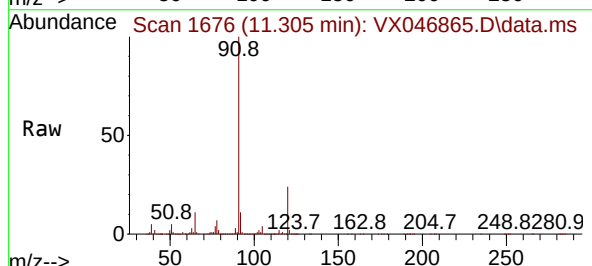
Manual Integrations
APPROVED

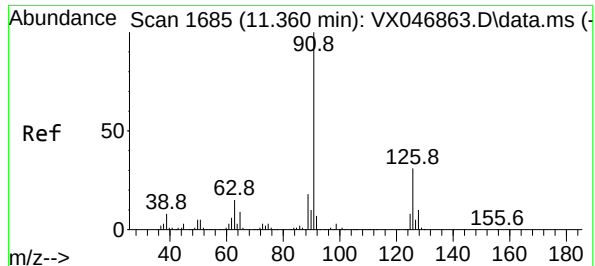
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#78
n-propylbenzene
Concen: 149.810 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Tgt Ion: 91 Resp: 3052066
Ion Ratio Lower Upper
91 100
120 22.8 11.2 33.5





#79

2-Chlorotoluene

Concen: 148.315 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 178416

Ion Ratio Lower Upper

91 100

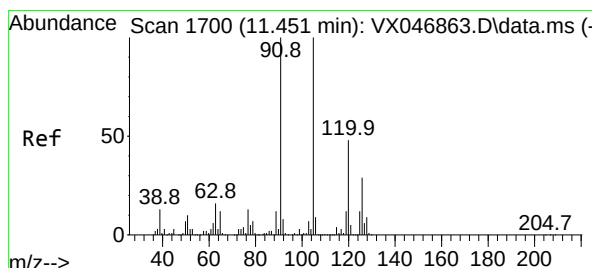
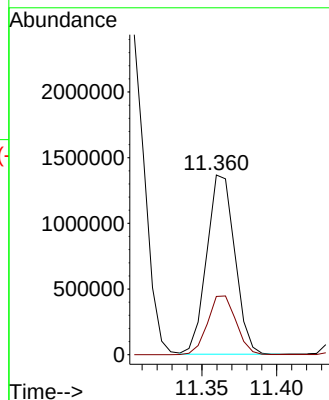
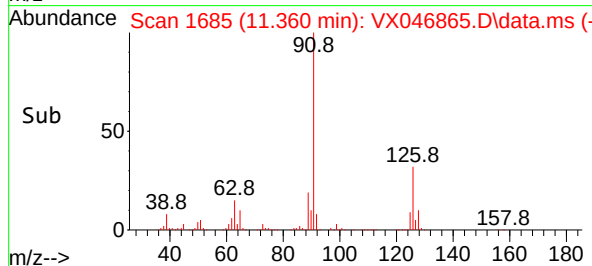
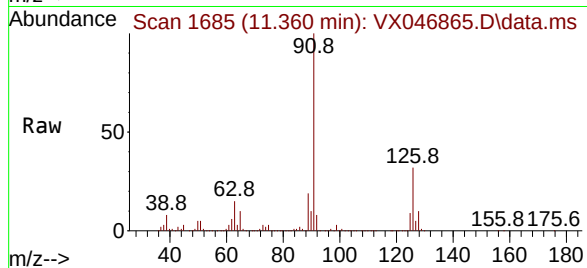
126 33.2 16.6 49.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#80

1,3,5-Trimethylbenzene

Concen: 152.092 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX046865.D

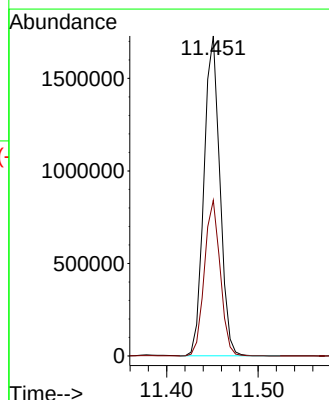
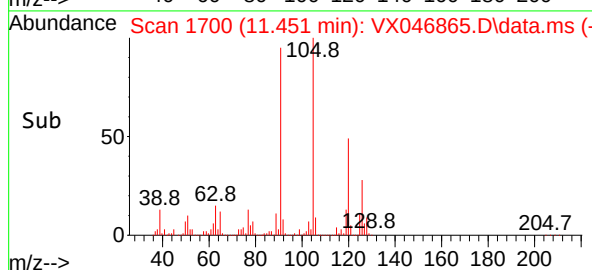
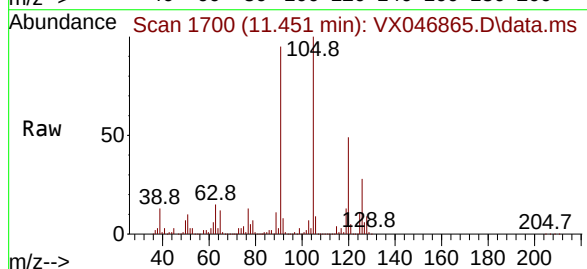
Acq: 02 Jul 2025 14:31

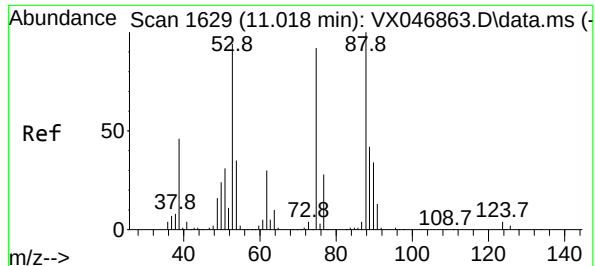
Tgt Ion:105 Resp: 2088013

Ion Ratio Lower Upper

105 100

120 48.2 24.1 72.4





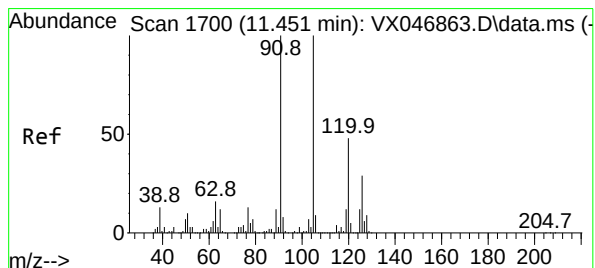
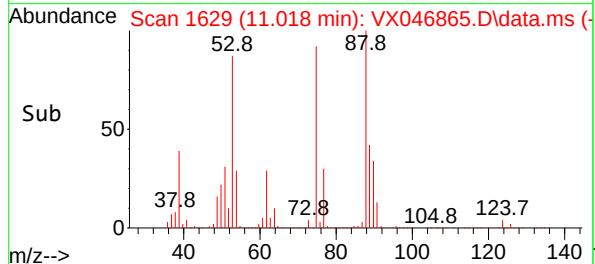
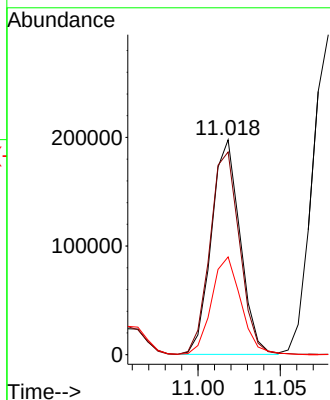
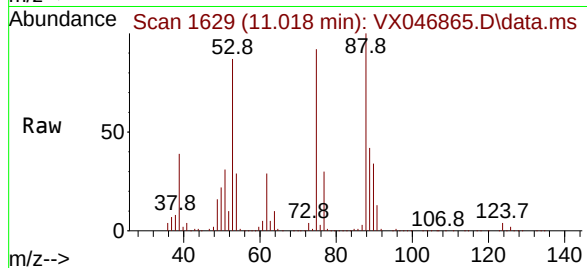
#81
trans-1,4-Dichloro-2-butene
Concen: 173.259 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 239775
Ion Ratio Lower Upper
75 100
53 97.6 83.7 125.5
89 47.1 38.2 57.2

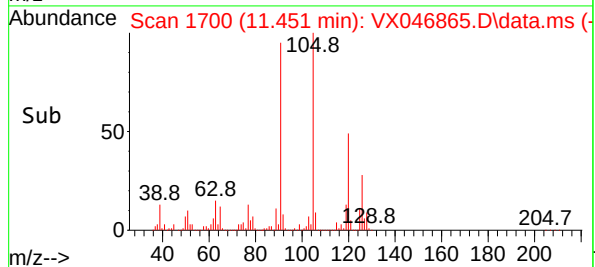
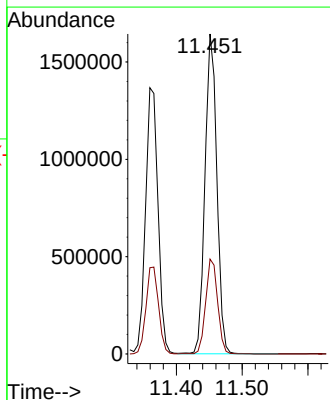
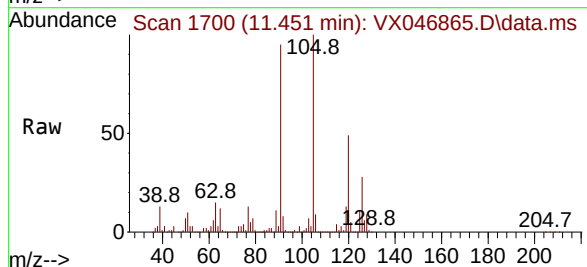
Manual Integrations
APPROVED

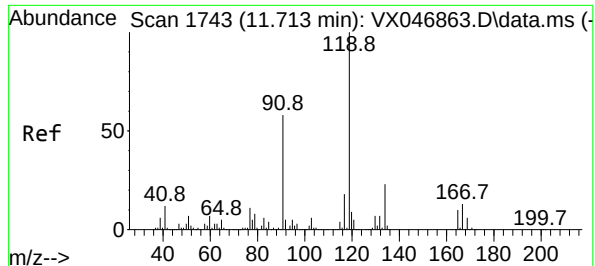
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#82
4-Chlorotoluene
Concen: 148.519 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Tgt Ion: 91 Resp: 2061746
Ion Ratio Lower Upper
91 100
126 29.9 14.6 44.0





#83

tert-Butylbenzene

Concen: 152.653 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:119 Resp: 216450

Ion Ratio Lower Upper

119 100

91 58.7 28.7 86.3

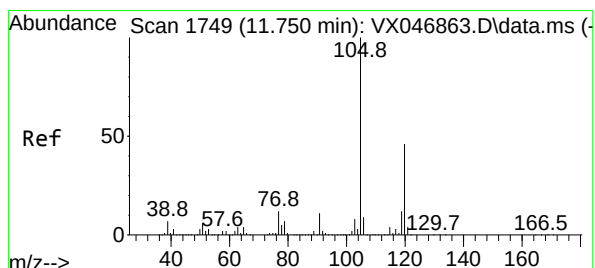
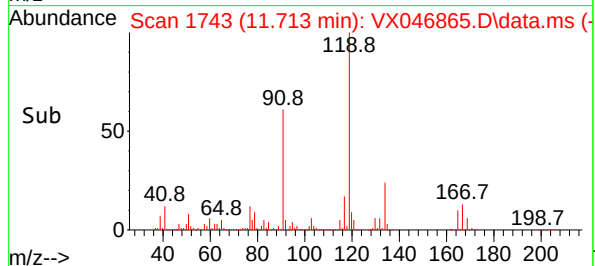
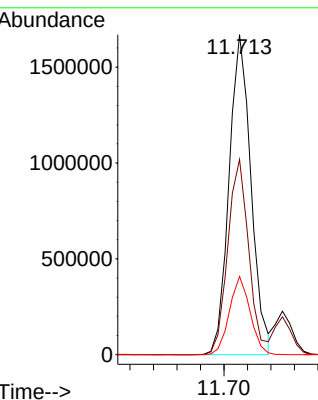
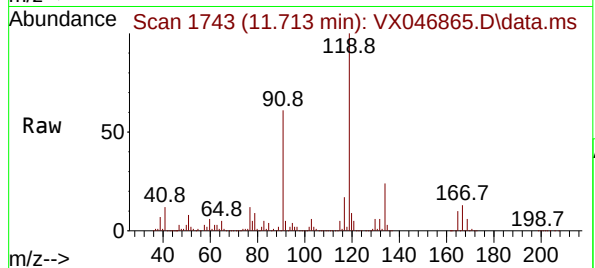
134 23.2 11.4 34.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#84

1,2,4-Trimethylbenzene

Concen: 152.635 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX046865.D

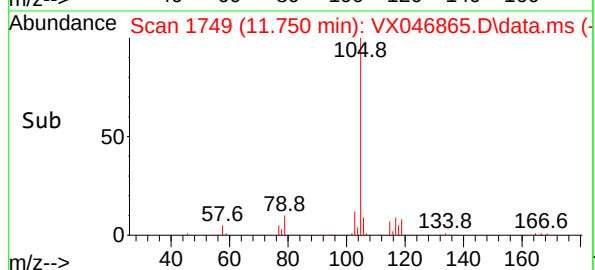
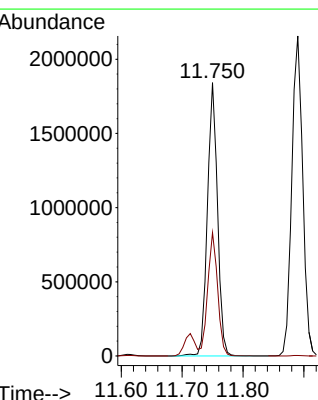
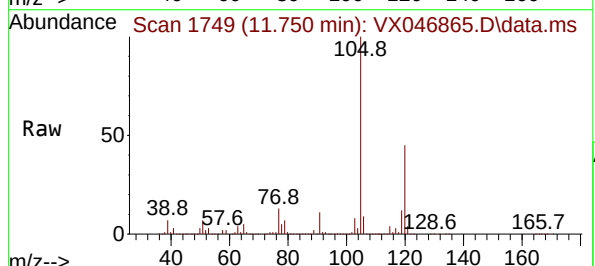
Acq: 02 Jul 2025 14:31

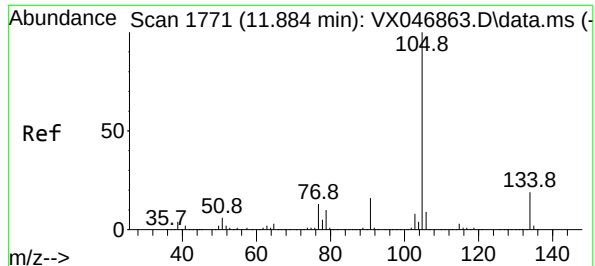
Tgt Ion:105 Resp: 2118023

Ion Ratio Lower Upper

105 100

120 44.7 23.3 69.8





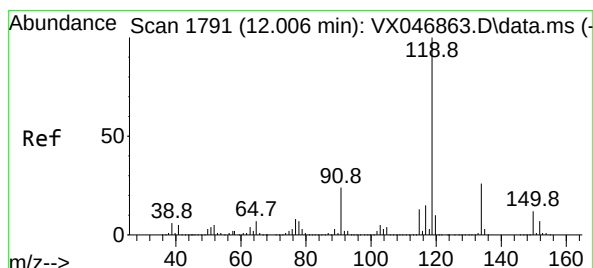
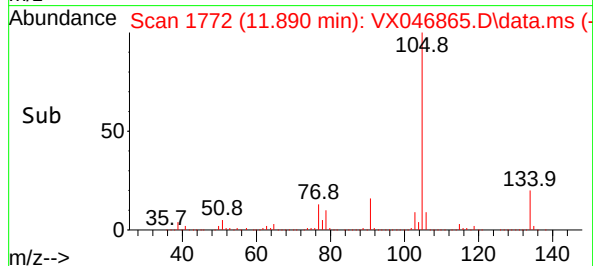
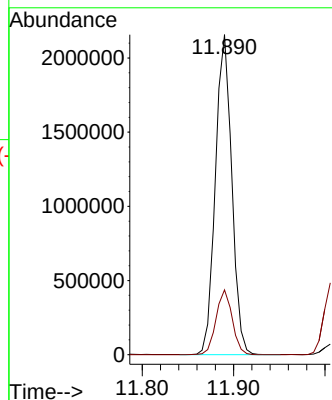
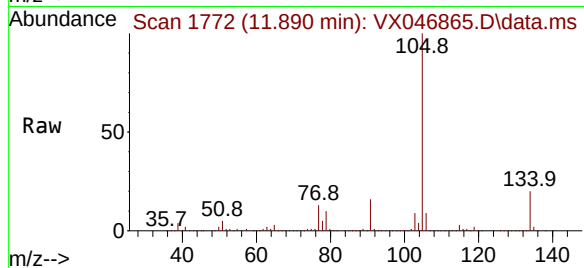
#85
sec-Butylbenzene
Concen: 150.005 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.006 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion:105 Resp: 268173
Ion Ratio Lower Upper
105 100
134 20.0 9.9 29.7

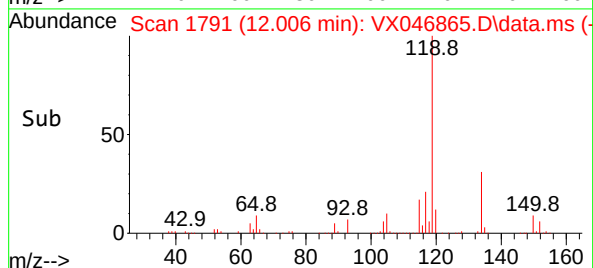
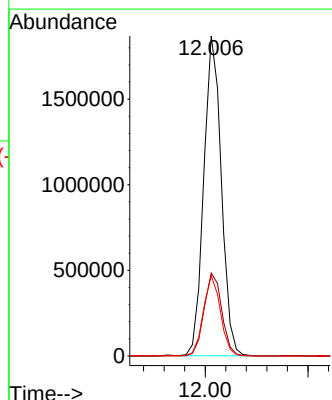
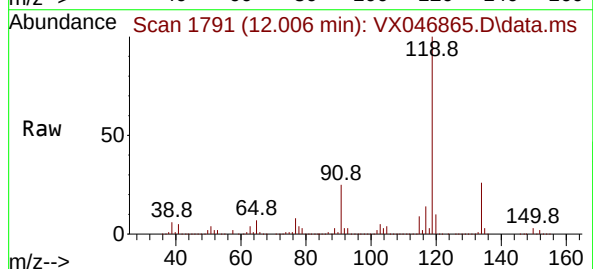
Manual Integrations
APPROVED

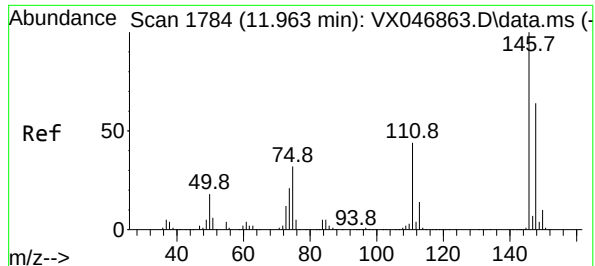
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#86
p-Isopropyltoluene
Concen: 148.186 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Tgt Ion:119 Resp: 2218491
Ion Ratio Lower Upper
119 100
134 26.3 13.0 39.0
91 24.4 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 148.354 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.006 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 1167669

Ion Ratio Lower Upper

146 100

111 41.8 20.5 61.6

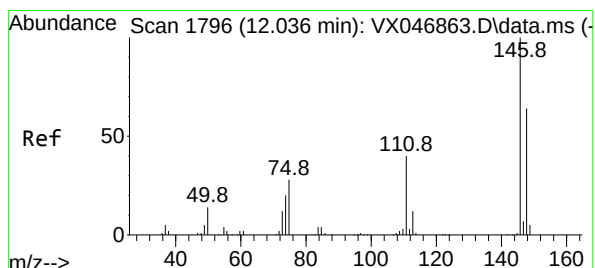
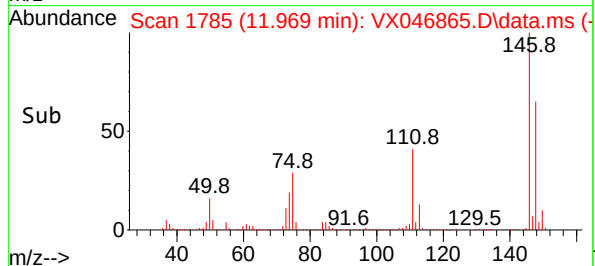
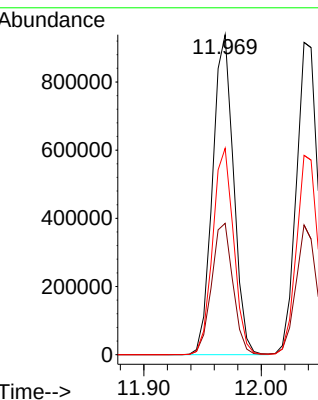
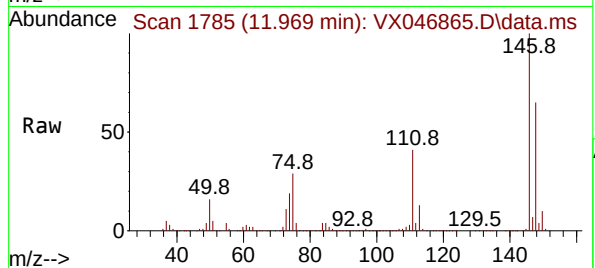
148 64.4 31.4 94.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#88

1,4-Dichlorobenzene

Concen: 143.634 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

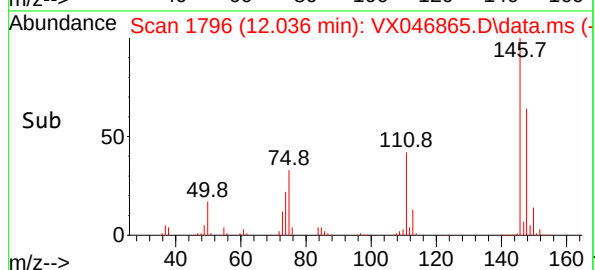
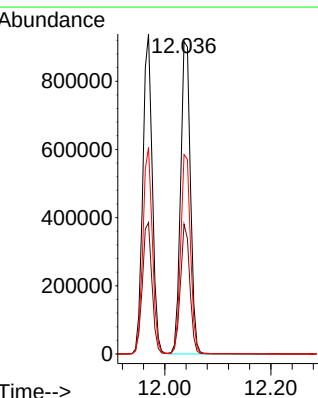
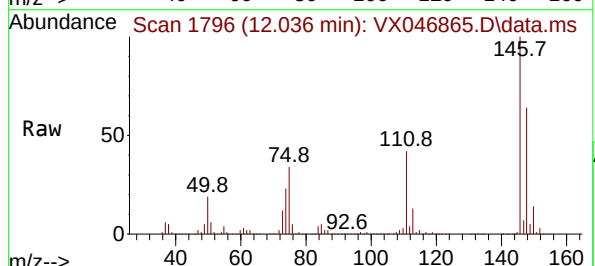
Tgt Ion:146 Resp: 1176579

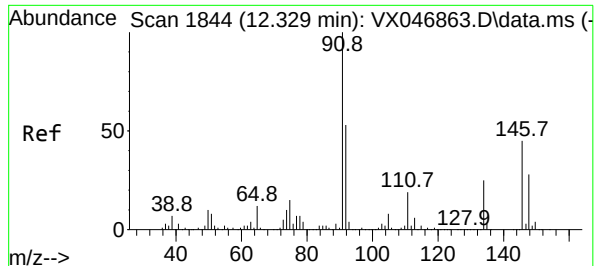
Ion Ratio Lower Upper

146 100

111 39.5 20.2 60.5

148 63.4 32.4 97.0





#89

n-Butylbenzene

Concen: 149.371 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 2101194

Ion Ratio Lower Upper

91 100

92 54.7 27.0 81.0

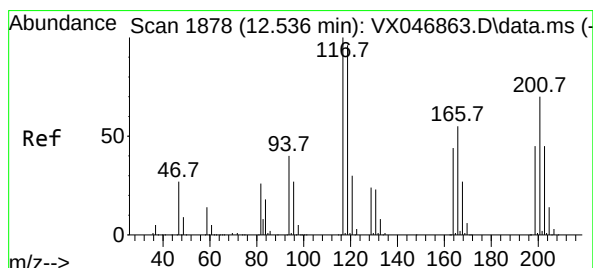
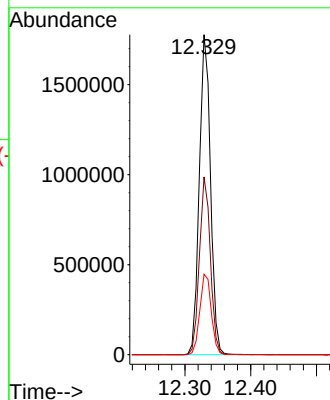
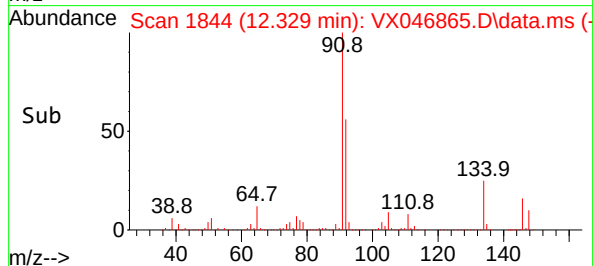
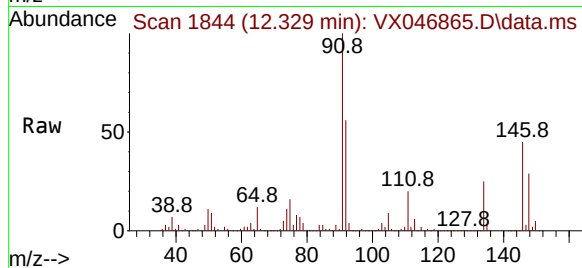
134 25.8 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#90

Hexachloroethane

Concen: 159.899 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX046865.D

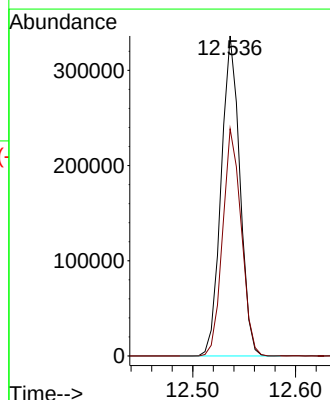
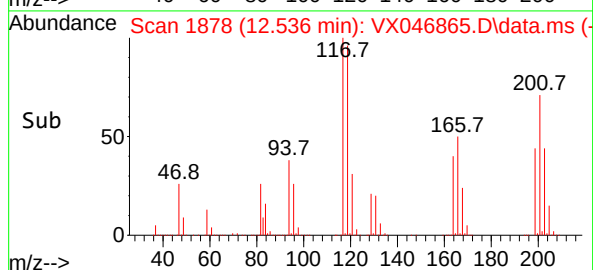
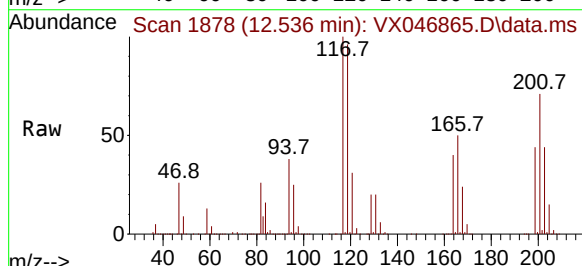
Acq: 02 Jul 2025 14:31

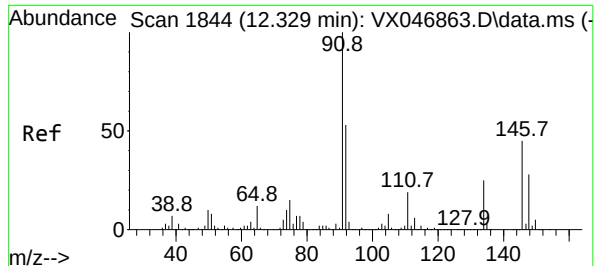
Tgt Ion:117 Resp: 424369

Ion Ratio Lower Upper

117 100

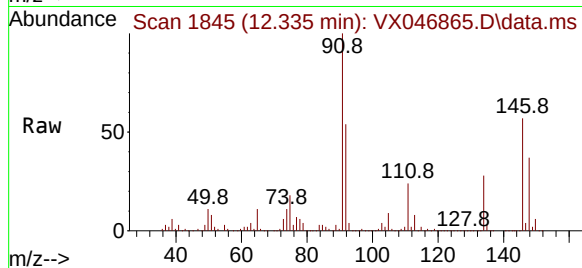
201 70.7 35.8 107.4





#91
1,2-Dichlorobenzene
Concen: 146.526 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

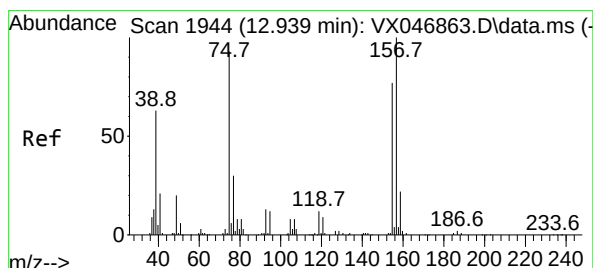
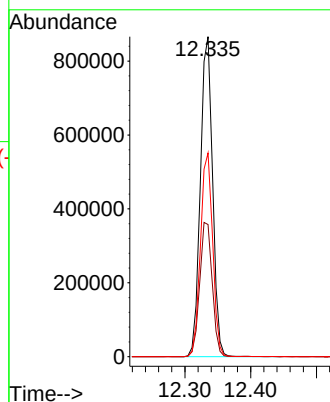
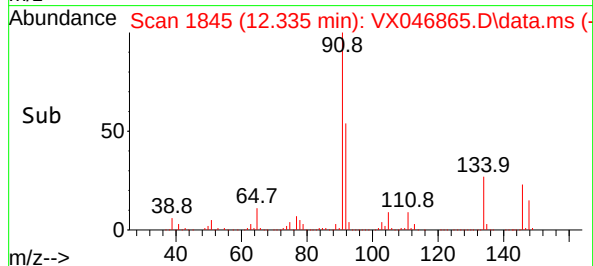
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:146 Resp: 1117598
Ion Ratio Lower Upper
146 100
111 43.2 21.1 63.1
148 63.6 31.6 95.0

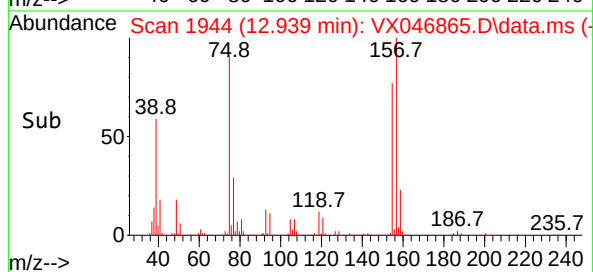
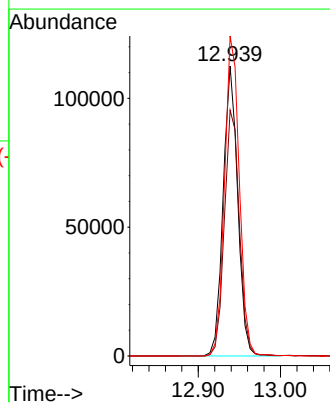
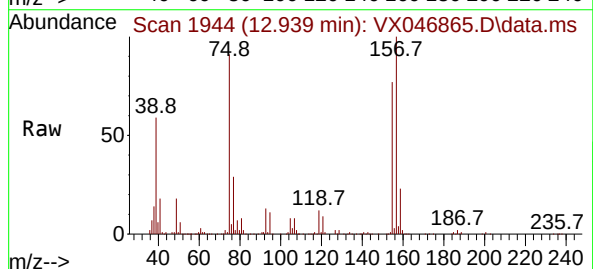
Manual Integrations
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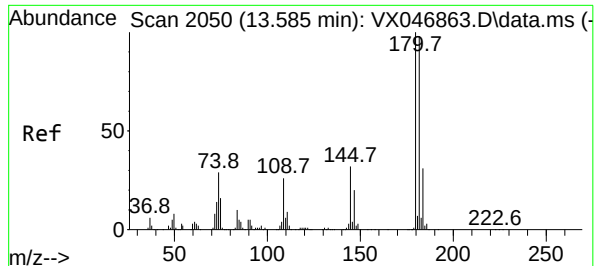
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 170.588 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

Tgt Ion: 75 Resp: 138617
Ion Ratio Lower Upper
75 100
155 87.3 43.1 129.4
157 112.2 56.5 169.5





#93

1,2,4-Trichlorobenzene

Concen: 159.391 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

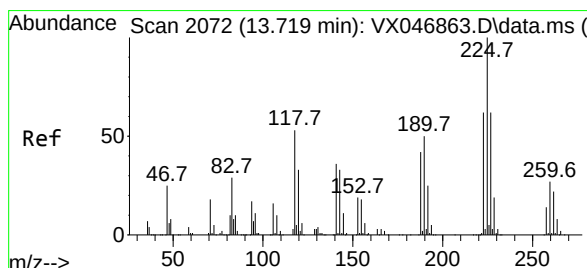
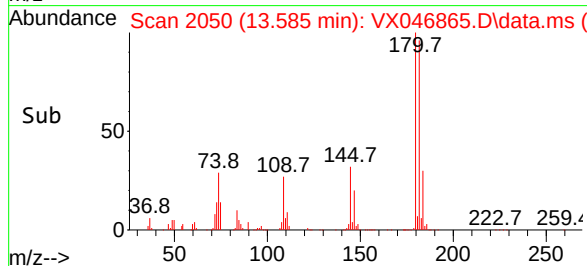
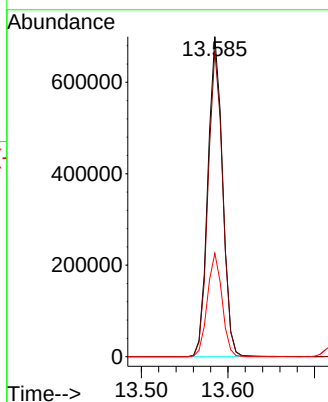
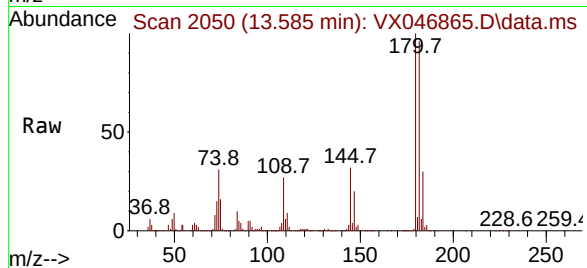
Tgt Ion:	180	Resp:	82590
Ion Ratio	Lower	Upper	
180	100		
182	95.4	47.3	141.9
145	32.1	16.1	48.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#94

Hexachlorobutadiene

Concen: 151.734 ug/l

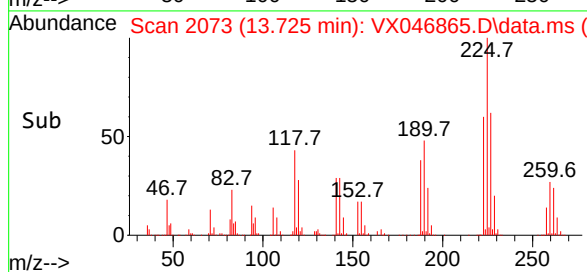
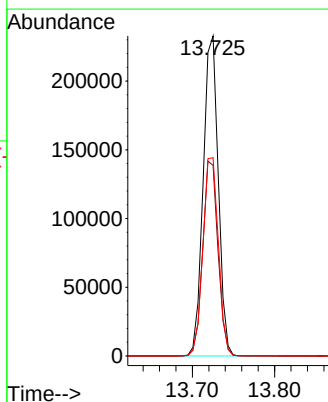
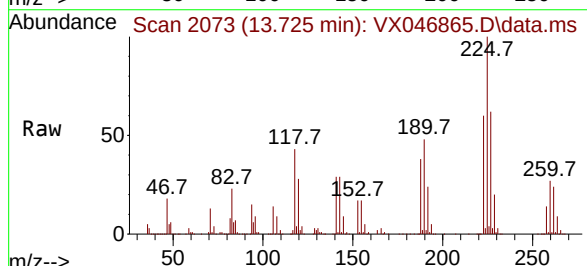
RT: 13.725 min Scan# 2073

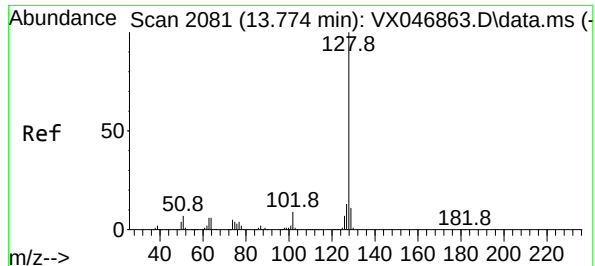
Delta R.T. 0.006 min

Lab File: VX046865.D

Acq: 02 Jul 2025 14:31

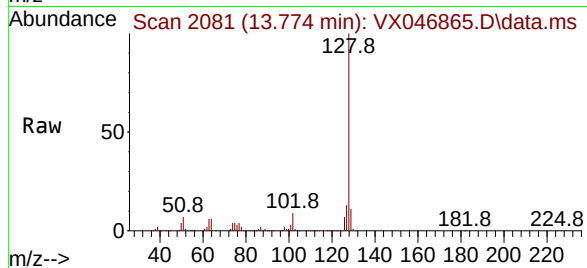
Tgt Ion:	225	Resp:	296507
Ion Ratio	Lower	Upper	
225	100		
223	61.5	31.6	94.7
227	63.6	31.6	94.7





#95
Naphthalene
Concen: 172.832 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31

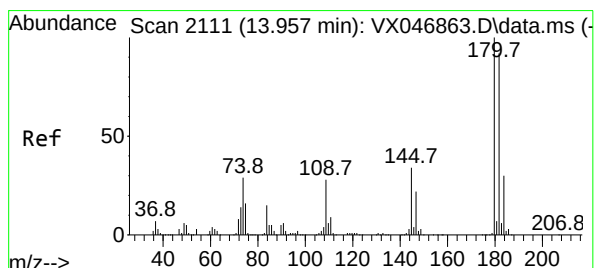
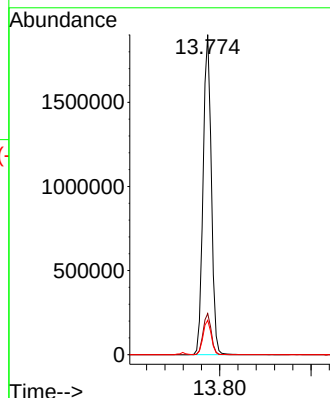
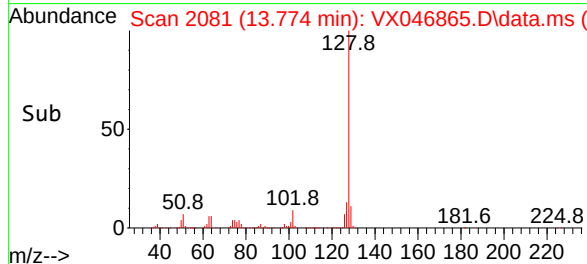
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



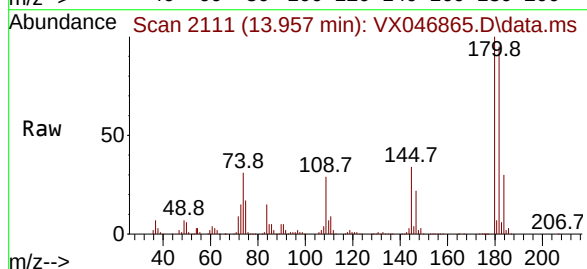
Tgt Ion:128 Resp: 2359854
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.4
129 10.8 8.6 13.0

Manual Integrations
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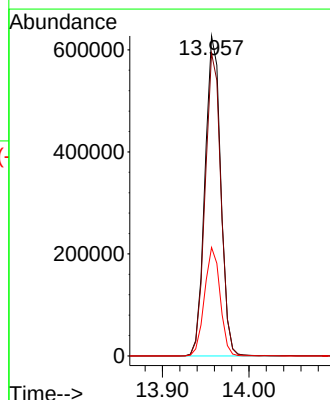
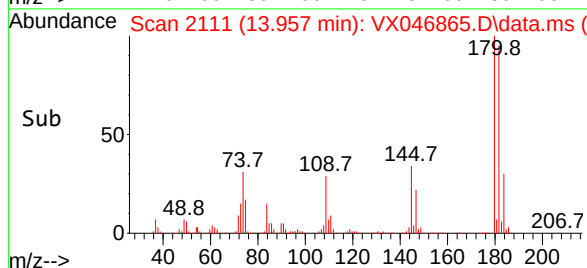
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#96
1,2,3-Trichlorobenzene
Concen: 161.887 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046865.D
Acq: 02 Jul 2025 14:31



Tgt Ion:180 Resp: 792593
Ion Ratio Lower Upper
180 100
182 94.5 46.7 140.1
145 33.6 16.8 50.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046867.D
 Acq On : 02 Jul 2025 15:14
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX070225

Quant Time: Jul 03 05:55:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/03/2025
 Supervised By : Mahesh Dadoda 07/03/2025

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	376229	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	610660	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	549326	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	275295	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.964	65	242648	48.819	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	97.640%
35) Dibromofluoromethane	5.397	113	208822	50.377	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.760%
50) Toluene-d8	8.647	98	731941	50.047	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	100.100%
62) 4-Bromofluorobenzene	11.079	95	282463	50.818	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	101.640%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.179	85	178684	49.661	ug/l	98
3) Chloromethane	1.307	50	192497	48.967	ug/l	100
4) Vinyl Chloride	1.386	62	208626	48.733	ug/l	99
5) Bromomethane	1.624	94	141065	51.285	ug/l	97
6) Chloroethane	1.703	64	132155	46.751	ug/l	100
7) Trichlorofluoromethane	1.904	101	326501	49.325	ug/l	98
8) Diethyl Ether	2.148	74	117004	49.670	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.349	101	208780	49.499	ug/l	100
10) Methyl Iodide	2.471	142	229855	50.021	ug/l	97
11) Tert butyl alcohol	2.953	59	86884	266.531	ug/l	100
12) 1,1-Dichloroethene	2.337	96	197950	48.521	ug/l	99
13) Acrolein	2.252	56	87230	242.250	ug/l	98
14) Allyl chloride	2.678	41	359895	49.549	ug/l	99
15) Acrylonitrile	3.075	53	482124	255.809	ug/l	99
16) Acetone	2.386	43	376127	243.622	ug/l	97
17) Carbon Disulfide	2.532	76	501161	46.842	ug/l	100
18) Methyl Acetate	2.715	43	217113	53.354	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	601377	52.199	ug/l	99
20) Methylene Chloride	2.800	84	224143	49.097	ug/l	97
21) trans-1,2-Dichloroethene	3.105	96	205950	49.334	ug/l	99
22) Diisopropyl ether	3.770	45	723627	51.568	ug/l	97
23) Vinyl Acetate	3.733	43	2777219	264.173	ug/l	99
24) 1,1-Dichloroethane	3.623	63	395739	49.449	ug/l	99
25) 2-Butanone	4.562	43	538755	261.552	ug/l	98
26) 2,2-Dichloropropane	4.489	77	293933	49.351	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	247860	48.630	ug/l	99
28) Bromochloromethane	4.910	49	198401	50.232	ug/l	98
29) Tetrahydrofuran	5.013	42	350947	267.272	ug/l	99
30) Chloroform	5.105	83	395292	48.348	ug/l	100
31) Cyclohexane	5.483	56	350463	49.328	ug/l	97
32) 1,1,1-Trichloroethane	5.397	97	335397	49.101	ug/l	99
36) 1,1-Dichloropropene	5.702	75	275506	49.261	ug/l	100
37) Ethyl Acetate	4.721	43	229364	48.151	ug/l	100
38) Carbon Tetrachloride	5.690	117	291659	49.327	ug/l	99
39) Methylcyclohexane	7.385	83	355028	50.747	ug/l	98
40) Benzene	6.050	78	835235	49.375	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
 Data File : VX046867.D
 Acq On : 02 Jul 2025 15:14
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX070225

Quant Time: Jul 03 05:55:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 07/03/2025
 Supervised By :Mahesh Dadoda 07/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	137841	54.246	ug/l	98
42) 1,2-Dichloroethane	6.092	62	282094	49.110	ug/l	100
43) Isopropyl Acetate	6.342	43	390969	53.586	ug/l	99
44) Trichloroethene	7.129	130	212780	48.321	ug/l	100
45) 1,2-Dichloropropane	7.434	63	213351	49.920	ug/l	98
46) Dibromomethane	7.586	93	146563	49.494	ug/l	100
47) Bromodichloromethane	7.824	83	313088	49.516	ug/l	97
48) Methyl methacrylate	7.696	41	206773	54.886	ug/l	99
49) 1,4-Dioxane	7.659	88	47208	1081.463	ug/l	98
51) 4-Methyl-2-Pentanone	8.574	43	1163206	270.137	ug/l	100
52) Toluene	8.720	92	524414	50.028	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	298344	52.871	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	334998	52.010	ug/l	99
55) 1,1,2-Trichloroethane	9.153	97	194738	49.876	ug/l	98
56) Ethyl methacrylate	9.116	69	294579	54.511	ug/l	99
57) 1,3-Dichloropropane	9.305	76	334325	49.728	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.245	63	817519	268.488	ug/l	100
59) 2-Hexanone	9.427	43	792449	277.453	ug/l	100
60) Dibromochloromethane	9.519	129	234044	50.089	ug/l	99
61) 1,2-Dibromoethane	9.610	107	200842	51.219	ug/l	100
64) Tetrachloroethene	9.275	164	174726	47.773	ug/l	93
65) Chlorobenzene	10.080	112	584424	49.208	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	199525	49.975	ug/l	99
67) Ethyl Benzene	10.189	91	1013473	49.829	ug/l	99
68) m/p-Xylenes	10.299	106	760571	99.238	ug/l	100
69) o-Xylene	10.640	106	368751	49.809	ug/l	99
70) Styrene	10.653	104	644744	50.903	ug/l	100
71) Bromoform	10.799	173	147395	49.651	ug/l #	99
73) Isopropylbenzene	10.957	105	981991	50.742	ug/l	100
74) N-amyl acetate	10.842	43	359547	54.674	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.207	83	269327	50.612	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	218733m	51.422	ug/l	
77) Bromobenzene	11.195	156	237950	49.363	ug/l	99
78) n-propylbenzene	11.299	91	1172148	50.231	ug/l	100
79) 2-Chlorotoluene	11.360	91	678845	49.268	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	808534	51.418	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	82807	52.240	ug/l	99
82) 4-Chlorotoluene	11.451	91	802710	50.483	ug/l	100
83) tert-Butylbenzene	11.713	119	826920	50.916	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	801503	50.428	ug/l	100
85) sec-Butylbenzene	11.890	105	1032626	50.429	ug/l	100
86) p-Isopropyltoluene	12.006	119	867283	50.577	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	446776	49.558	ug/l	99
88) 1,4-Dichlorobenzene	12.037	146	448682	47.821	ug/l	99
89) n-Butylbenzene	12.329	91	817746	50.753	ug/l	99
90) Hexachloroethane	12.536	117	151888	49.965	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	424172	48.553	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	48557	52.171	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	301081	50.729	ug/l	99
94) Hexachlorobutadiene	13.719	225	117882	52.667	ug/l	99
95) Naphthalene	13.774	128	844747	54.014	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	285334	50.881	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046867.D
Acq On : 02 Jul 2025 15:14
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 03 05:55:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025

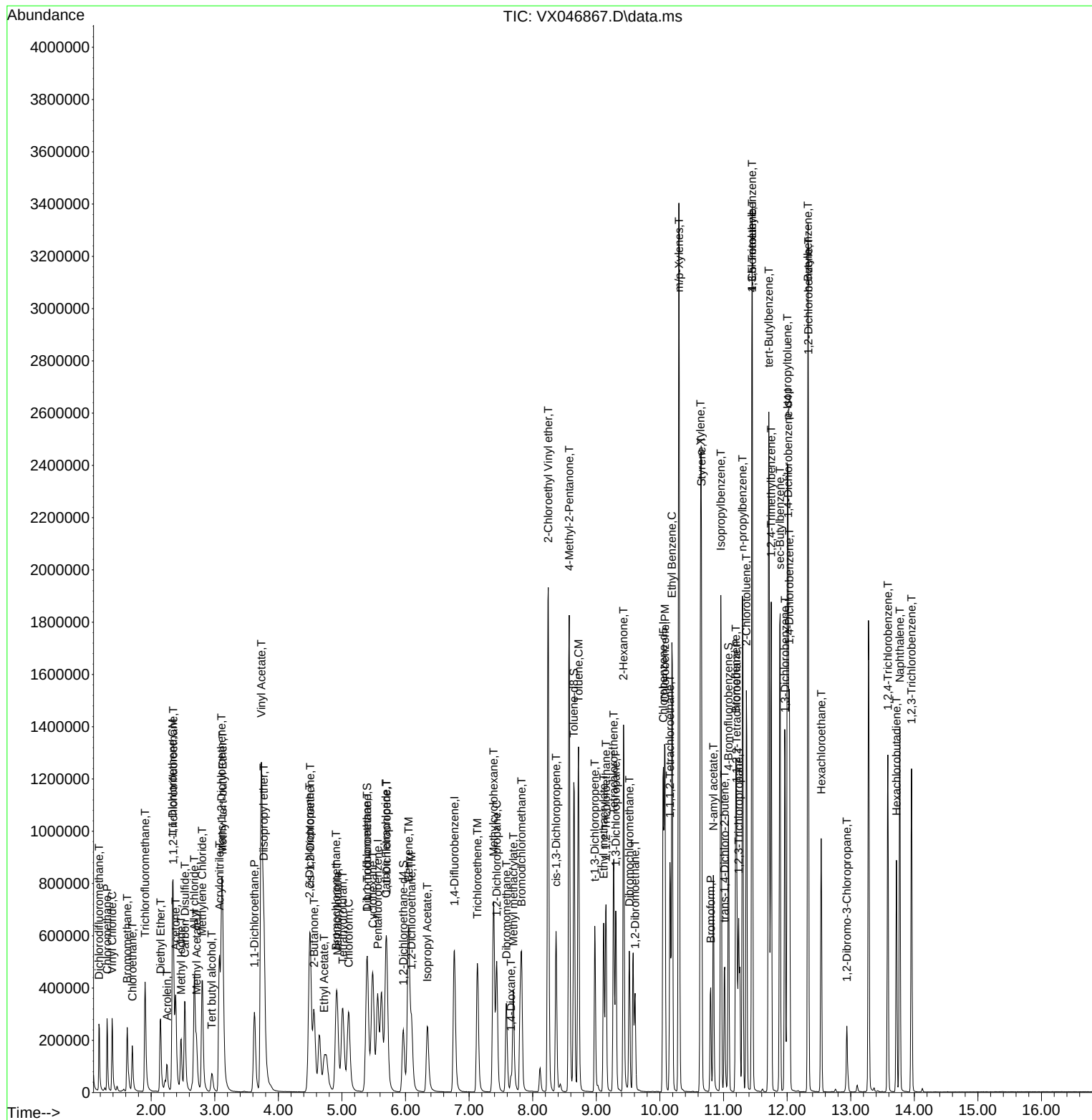
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

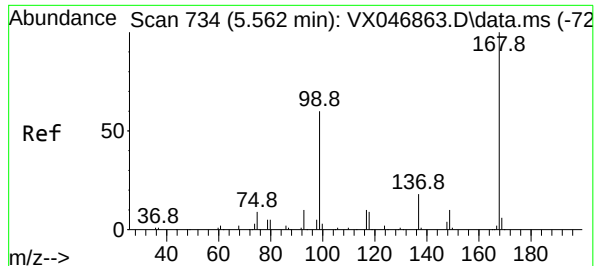
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Manual Integrations APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.562 min Scan# 734

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVX070225

Tgt Ion:168 Resp: 376229

Ion Ratio Lower Upper

168 100

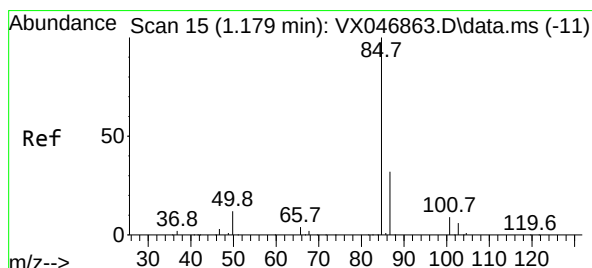
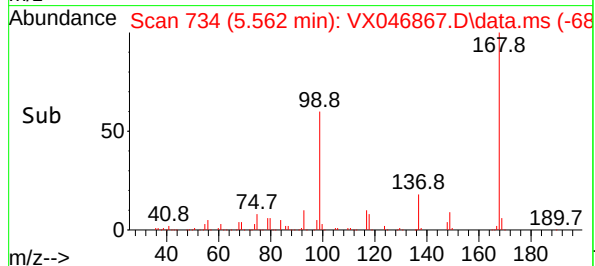
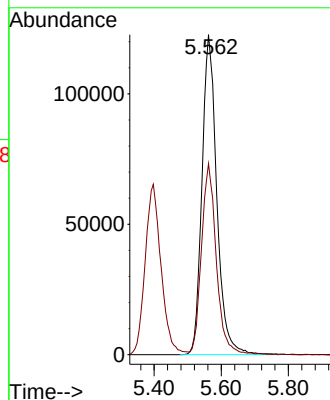
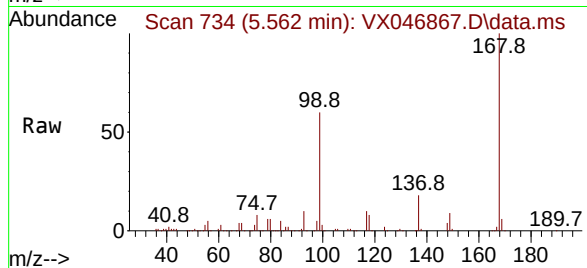
99 59.5 48.8 73.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#2

Dichlorodifluoromethane

Concen: 49.661 ug/l

RT: 1.179 min Scan# 15

Delta R.T. 0.000 min

Lab File: VX046867.D

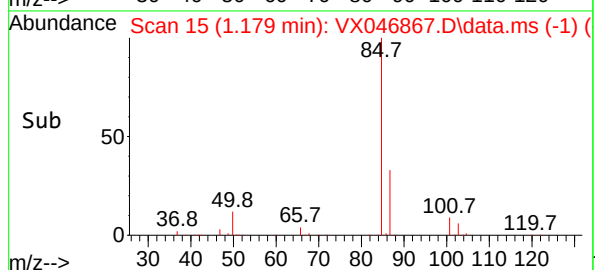
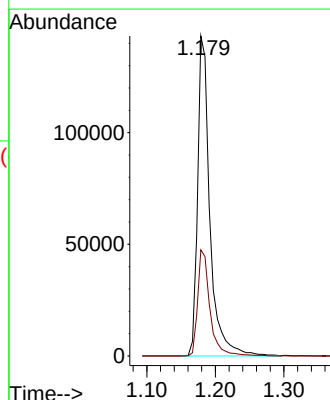
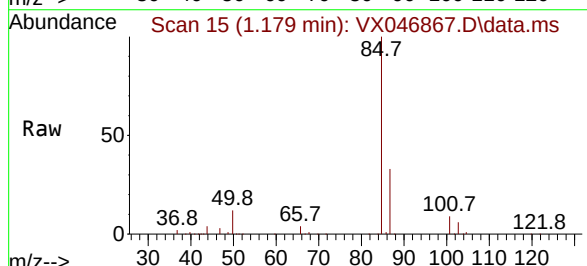
Acq: 02 Jul 2025 15:14

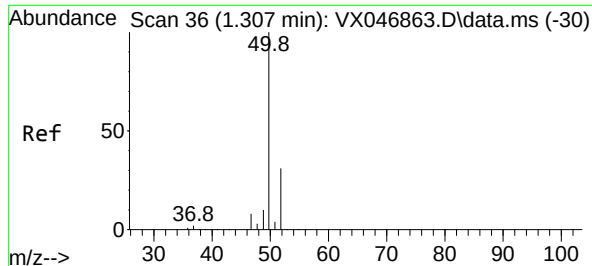
Tgt Ion: 85 Resp: 178684

Ion Ratio Lower Upper

85 100

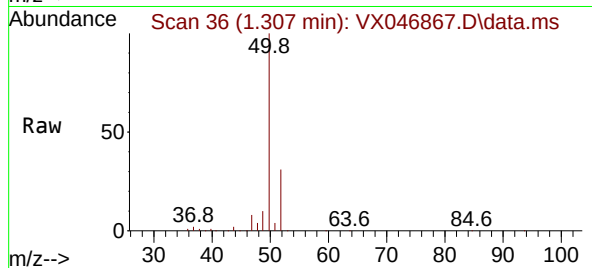
87 33.2 16.0 47.9





#3
Chloromethane
Concen: 48.967 ug/l
RT: 1.307 min Scan# 30
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

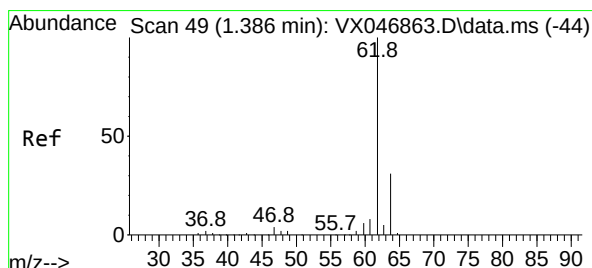
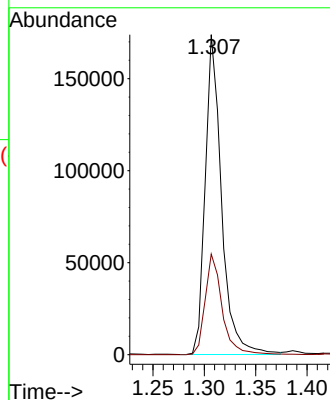
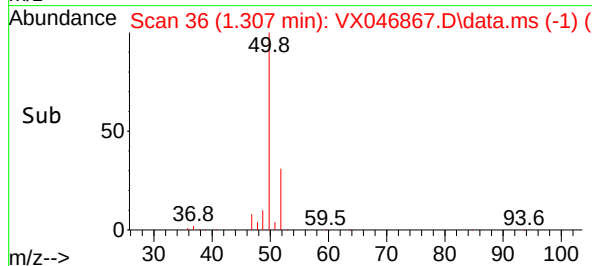
Instrument :
MSVOA_X
ClientSampleId :
ICVX070225



Tgt Ion: 50 Resp: 19249
Ion Ratio Lower Upper
50 100
52 31.5 25.0 37.4

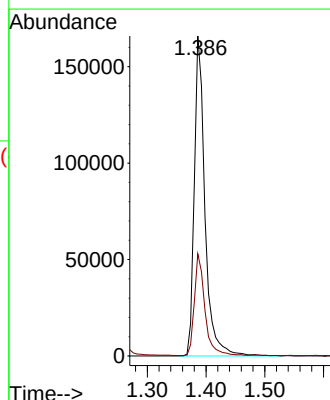
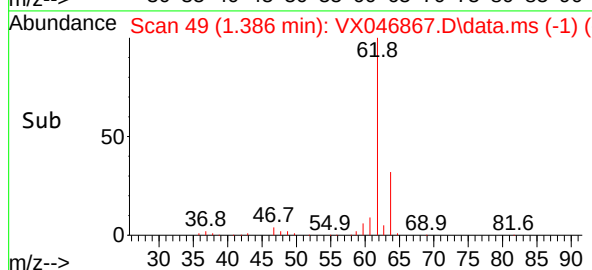
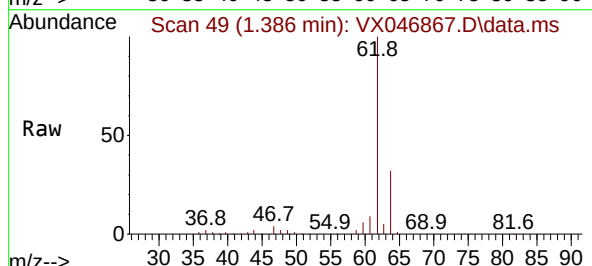
Manual Integrations
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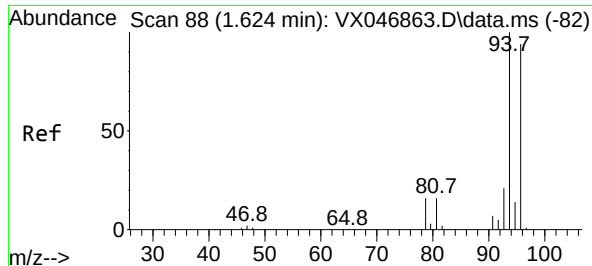
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#4
Vinyl Chloride
Concen: 48.733 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Tgt Ion: 62 Resp: 208626
Ion Ratio Lower Upper
62 100
64 31.9 25.0 37.4





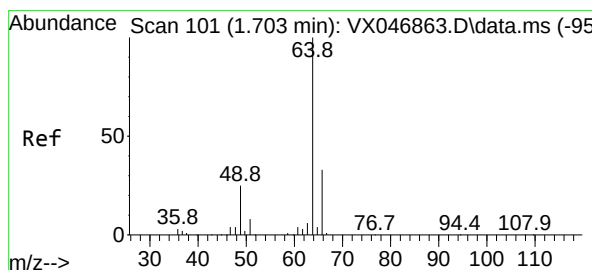
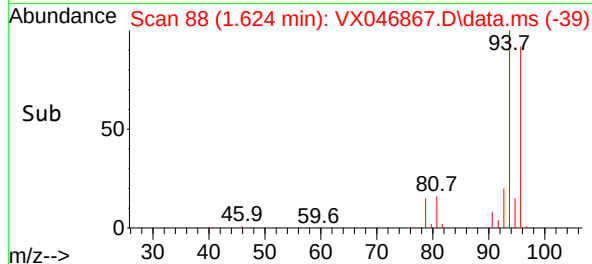
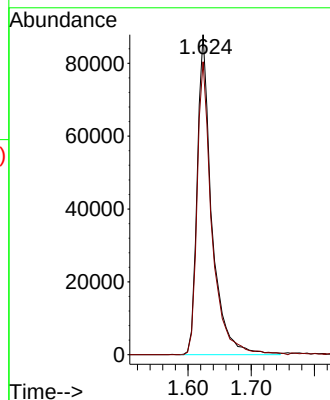
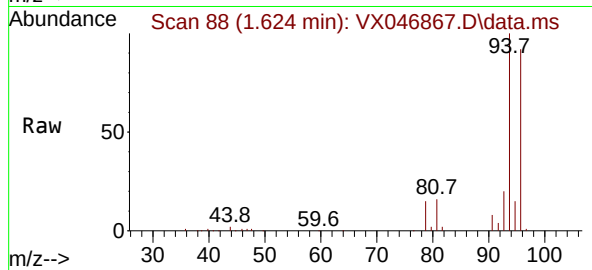
#5
Bromomethane
Concen: 51.285 ug/l
RT: 1.624 min Scan# 88
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Tgt Ion: 94 Resp: 141065
Ion Ratio Lower Upper
94 100
96 91.5 75.5 113.3

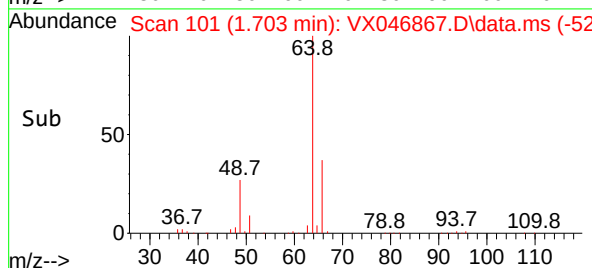
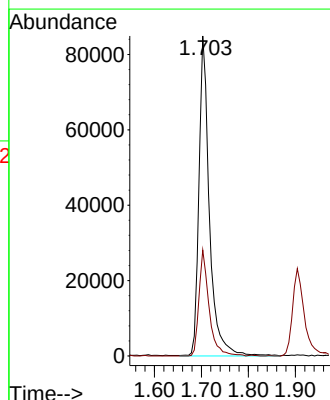
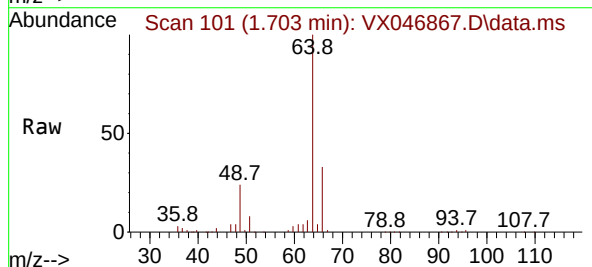
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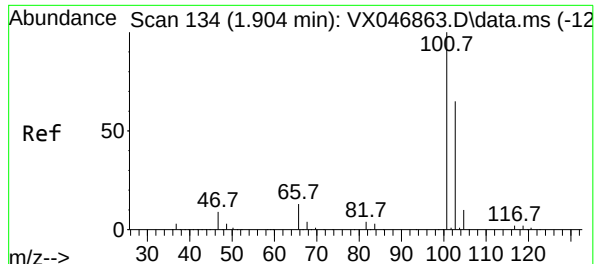
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#6
Chloroethane
Concen: 46.751 ug/l
RT: 1.703 min Scan# 101
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Tgt Ion: 64 Resp: 132155
Ion Ratio Lower Upper
64 100
66 33.1 26.4 39.6





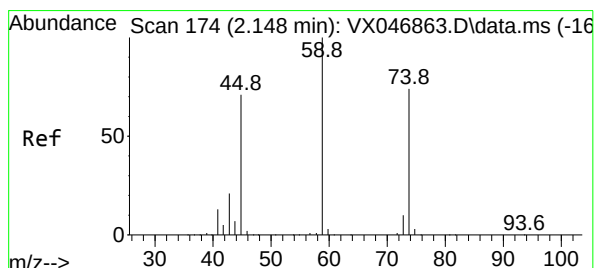
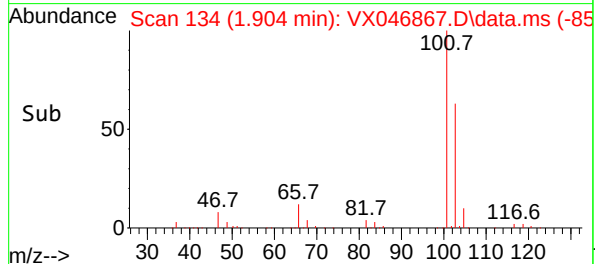
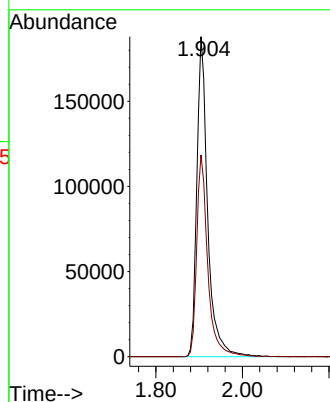
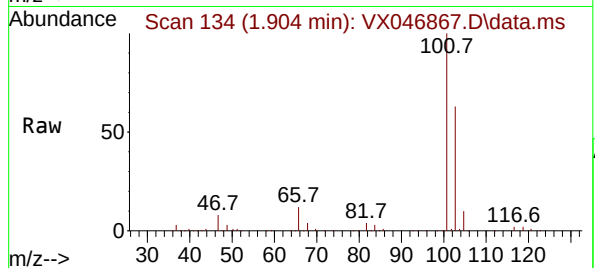
#7
Trichlorofluoromethane
Concen: 49.325 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Tgt Ion:101 Resp: 32650
Ion Ratio Lower Upper
101 100
103 63.1 51.9 77.9

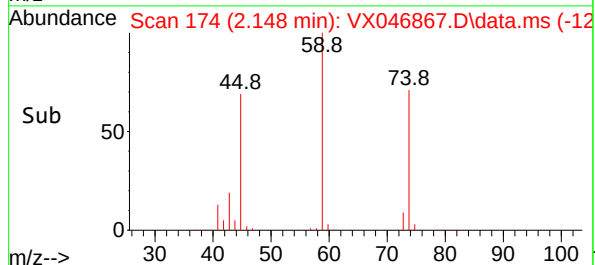
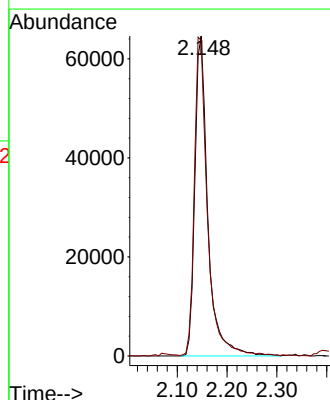
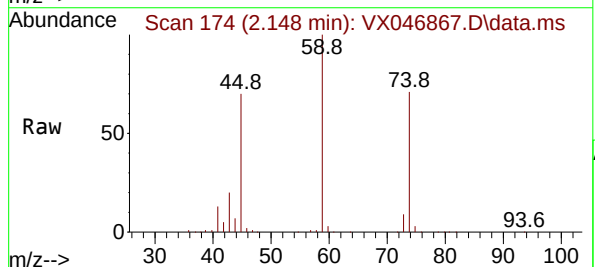
Manual Integrations
APPROVED

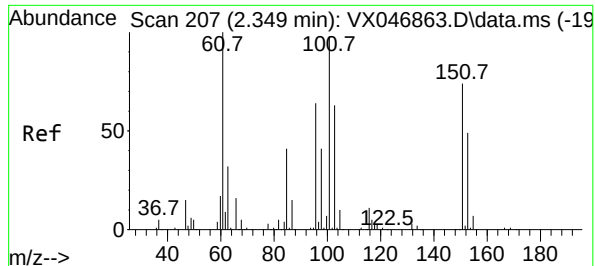
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#8
Diethyl Ether
Concen: 49.670 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Tgt Ion: 74 Resp: 117004
Ion Ratio Lower Upper
74 100
45 100.2 50.7 152.1





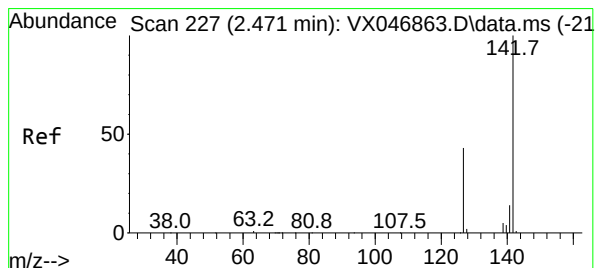
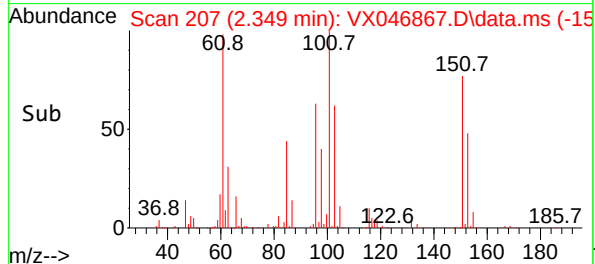
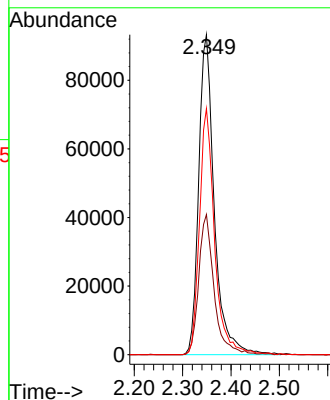
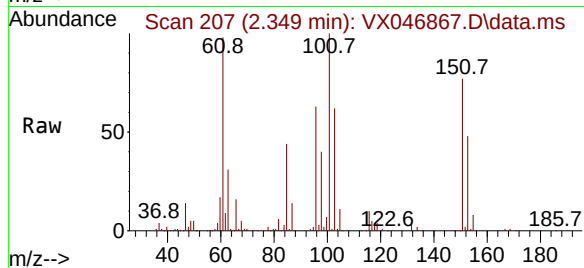
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.499 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Instrument :
MSVOA_X
ClientSampleId :
ICVX070225

Tgt Ion:101 Resp: 208780
Ion Ratio Lower Upper
101 100
85 43.2 34.3 51.5
151 74.9 59.9 89.9

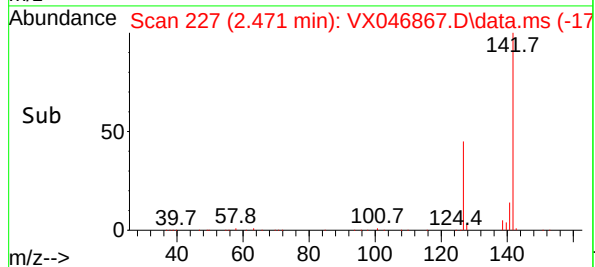
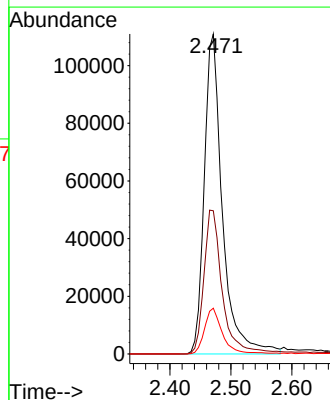
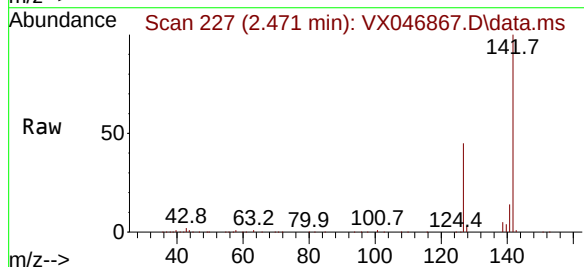
Manual Integrations
APPROVED

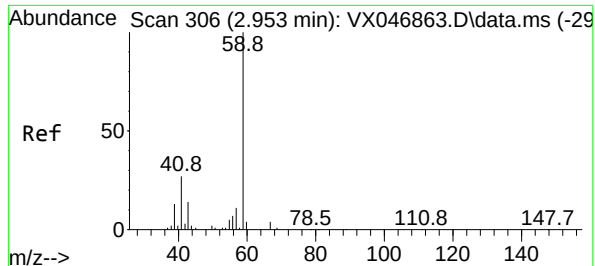
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#10
Methyl Iodide
Concen: 50.021 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Tgt Ion:142 Resp: 229855
Ion Ratio Lower Upper
142 100
127 46.3 34.9 52.3
141 14.2 11.1 16.7





#11

Tert butyl alcohol

Concen: 266.531 ug/l

RT: 2.953 min Scan# 306

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVX070225

Tgt Ion: 59 Resp: 86884

Ion Ratio Lower Upper

59 100

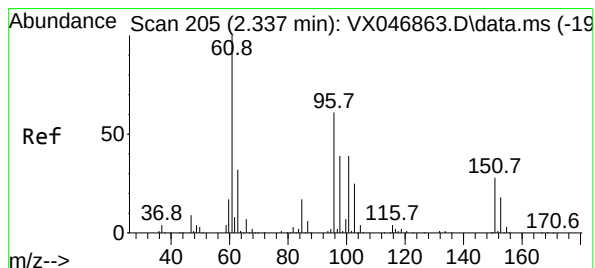
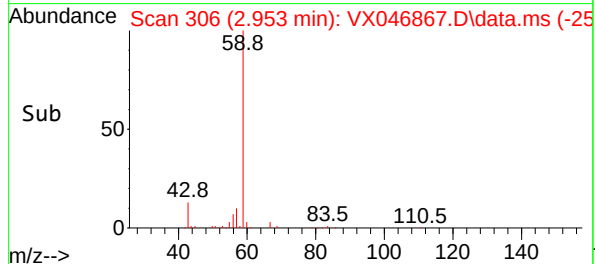
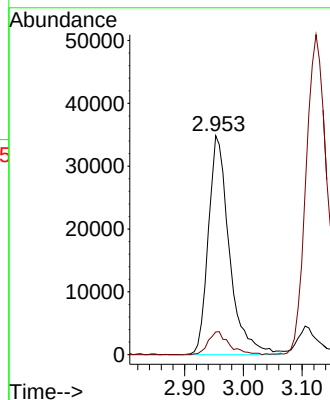
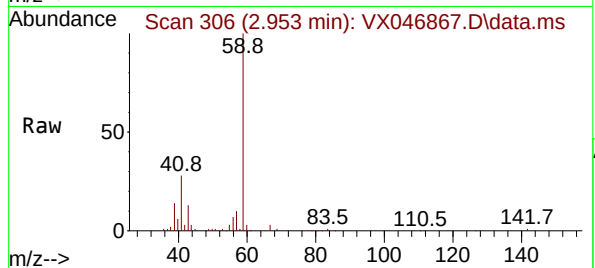
57 10.4 8.5 12.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#12

1,1-Dichloroethene

Concen: 48.521 ug/l

RT: 2.337 min Scan# 205

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

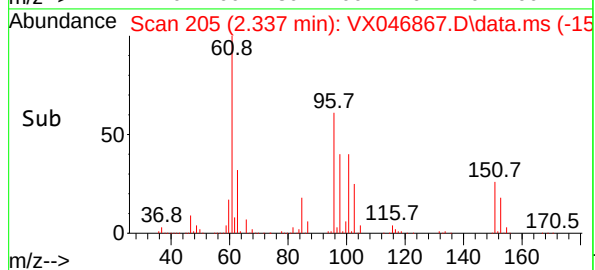
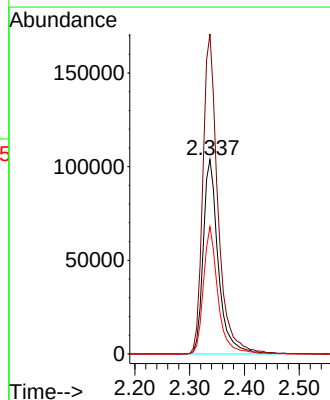
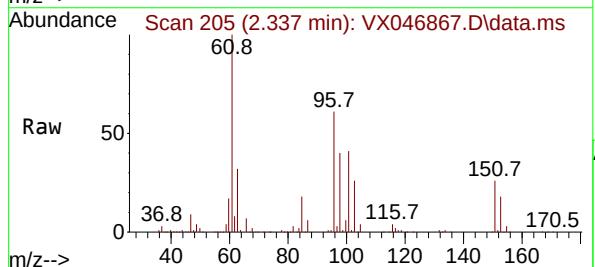
Tgt Ion: 96 Resp: 197950

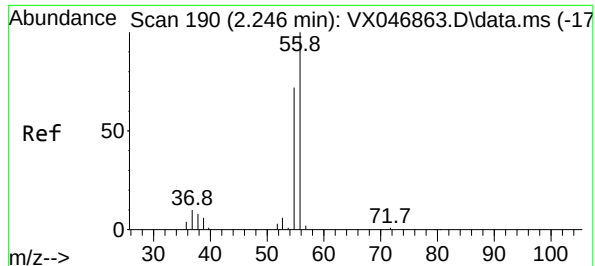
Ion Ratio Lower Upper

96 100

61 164.6 130.2 195.4

98 65.4 51.3 76.9





#13

Acrolein

Concen: 242.250 ug/l

RT: 2.252 min Scan# 190

Delta R.T. 0.006 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVX070225

Tgt Ion: 56 Resp: 87230

Ion Ratio Lower Upper

56 100

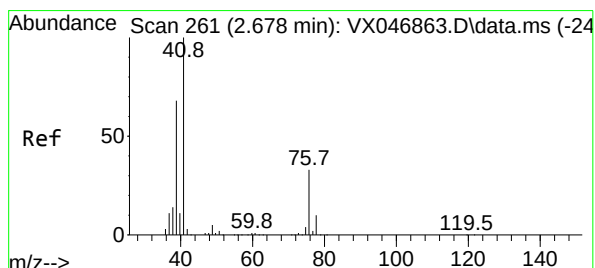
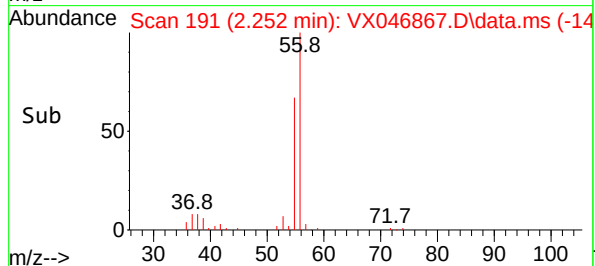
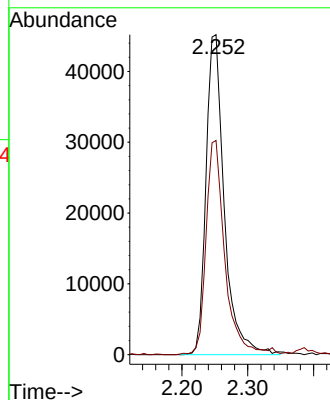
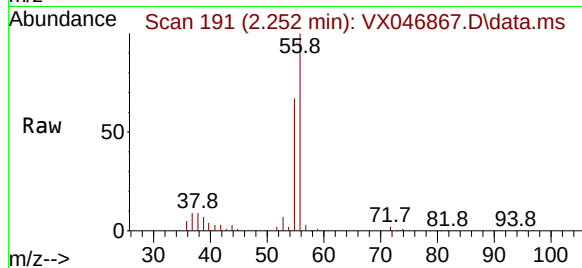
55 68.2 55.5 83.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#14

Allyl chloride

Concen: 49.549 ug/l

RT: 2.678 min Scan# 261

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

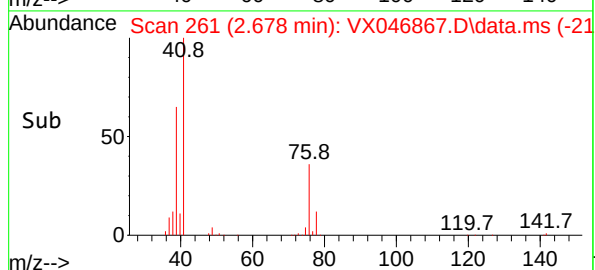
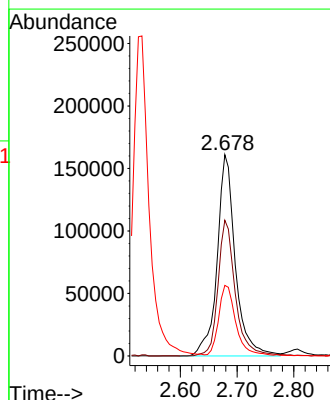
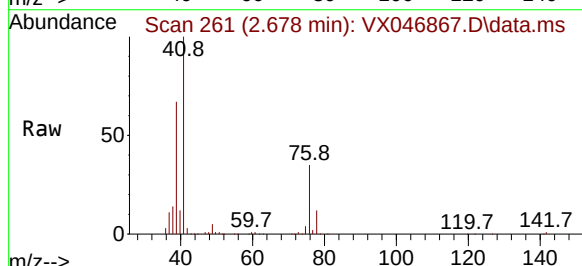
Tgt Ion: 41 Resp: 359895

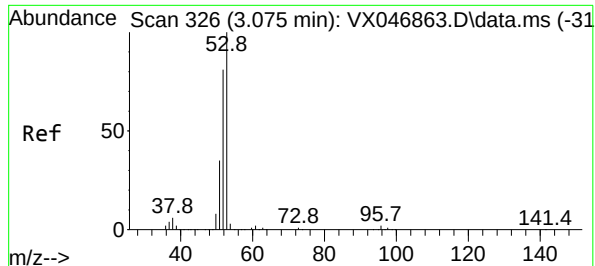
Ion Ratio Lower Upper

41 100

39 64.3 52.0 78.0

76 33.6 26.2 39.2





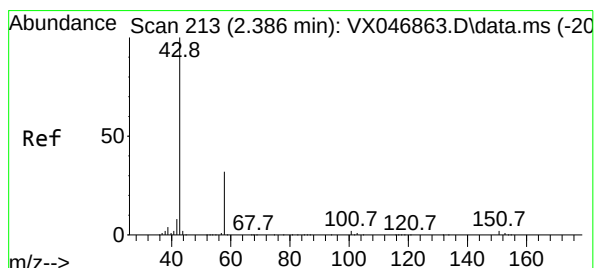
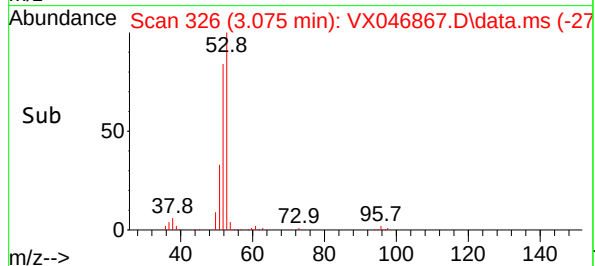
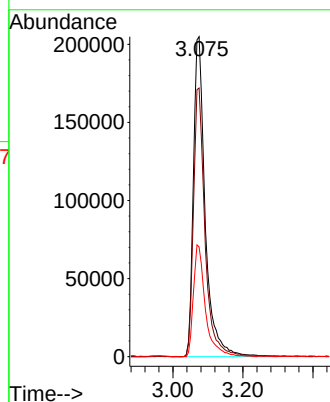
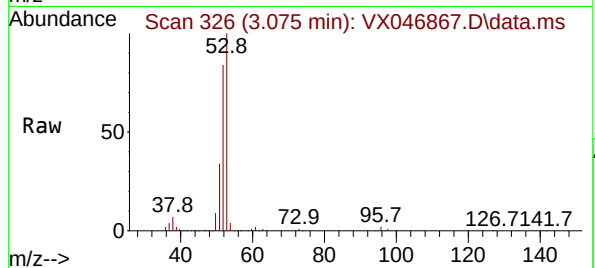
#15
Acrylonitrile
Concen: 255.809 ug/l
RT: 3.075 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Tgt Ion: 53 Resp: 482124
Ion Ratio Lower Upper
53 100
52 81.7 66.0 99.0
51 35.4 28.6 43.0

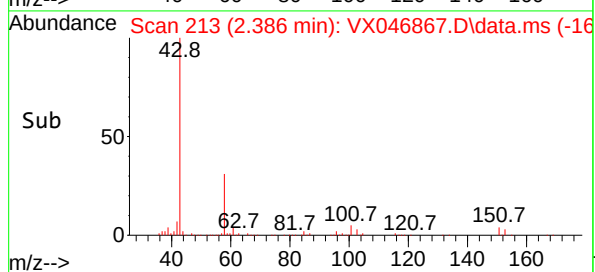
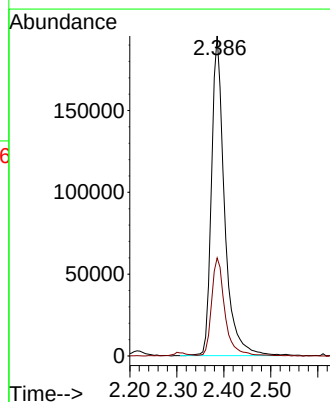
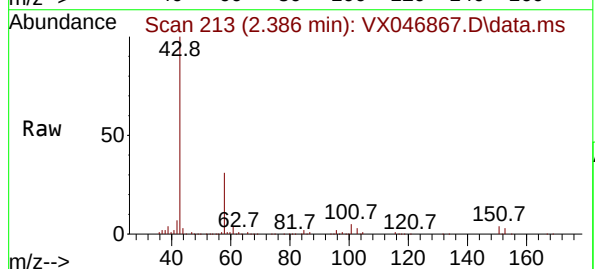
Manual Integrations
APPROVED

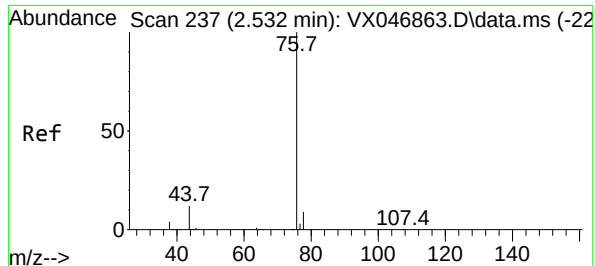
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#16
Acetone
Concen: 243.622 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

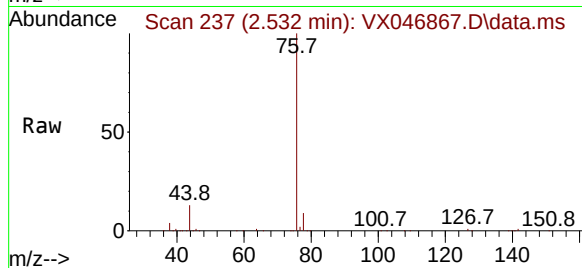
Tgt Ion: 43 Resp: 376127
Ion Ratio Lower Upper
43 100
58 30.6 25.8 38.6





#17
Carbon Disulfide
Concen: 46.842 ug/l
RT: 2.532 min Scan# 237
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

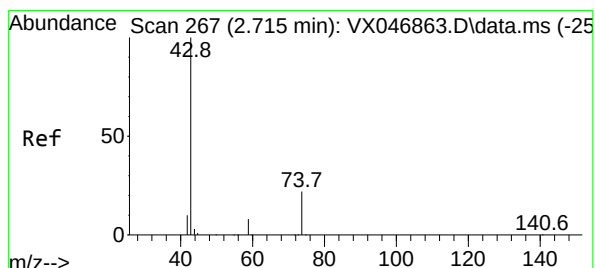
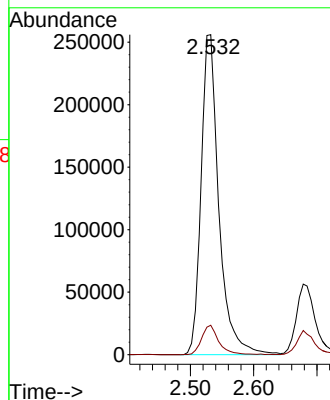
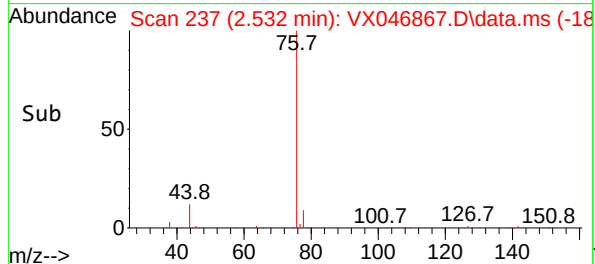
Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225



Tgt Ion: 76 Resp: 50116
Ion Ratio Lower Upper
76 100
78 9.2 7.4 11.2

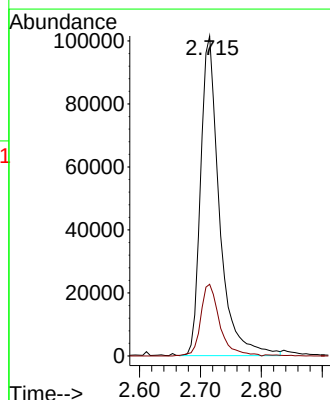
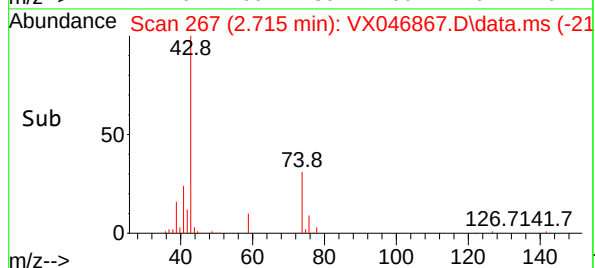
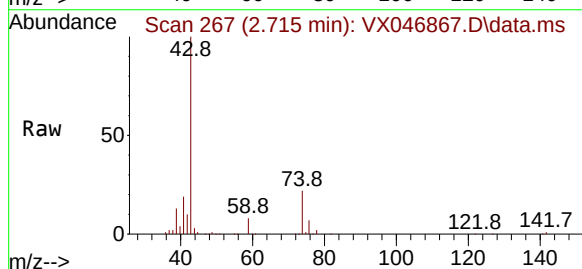
Manual Integrations
APPROVED

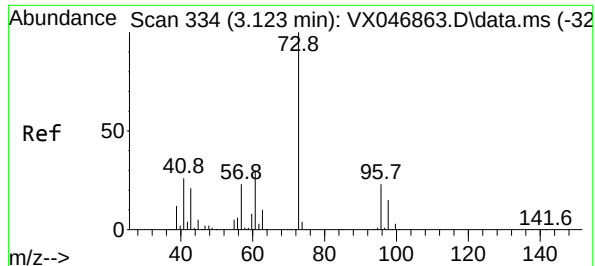
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#18
Methyl Acetate
Concen: 53.354 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Tgt Ion: 43 Resp: 217113
Ion Ratio Lower Upper
43 100
74 22.6 18.3 27.5





#19

Methyl tert-butyl Ether

Concen: 52.199 ug/l

RT: 3.123 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVVX070225

Tgt Ion: 73 Resp: 60137

Ion Ratio Lower Upper

73 100

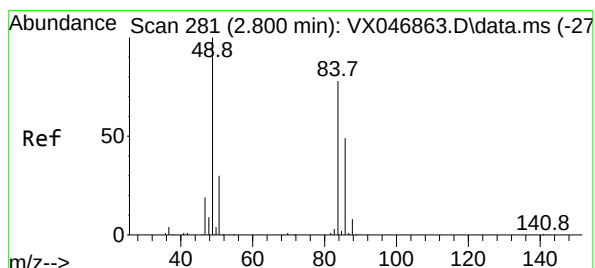
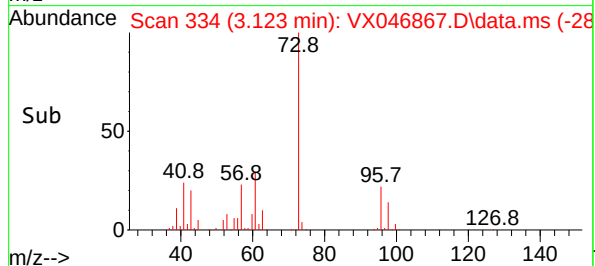
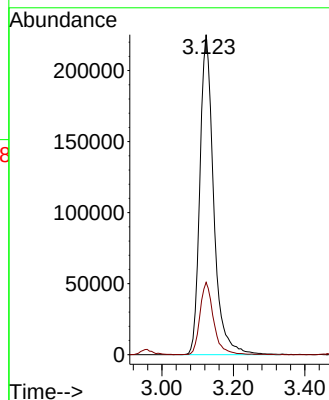
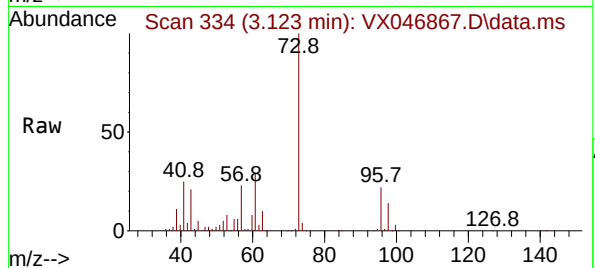
57 22.6 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#20

Methylene Chloride

Concen: 49.097 ug/l

RT: 2.800 min Scan# 281

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Tgt Ion: 84 Resp: 224143

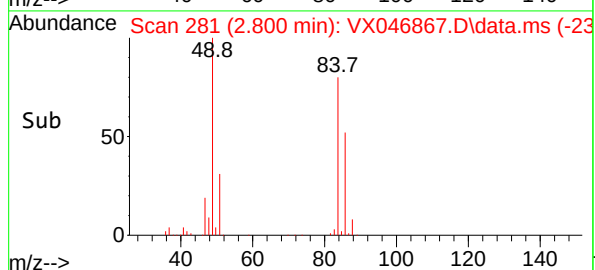
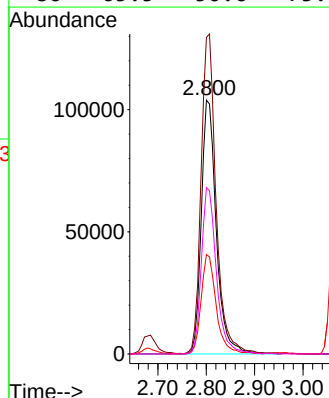
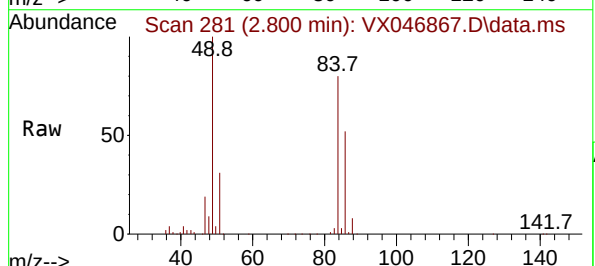
Ion Ratio Lower Upper

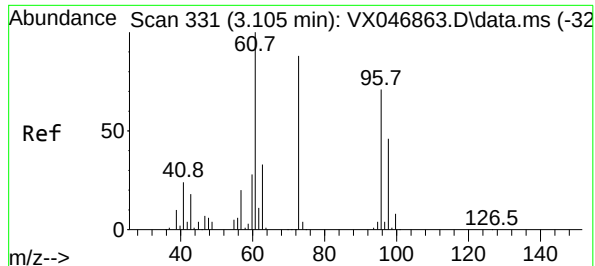
84 100

49 124.5 102.8 154.2

51 39.2 31.1 46.7

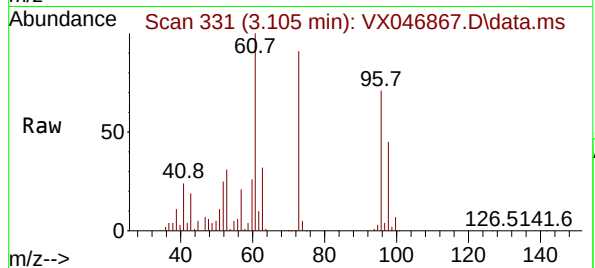
86 65.5 50.6 75.8





#21
trans-1,2-Dichloroethene
Concen: 49.334 ug/l
RT: 3.105 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

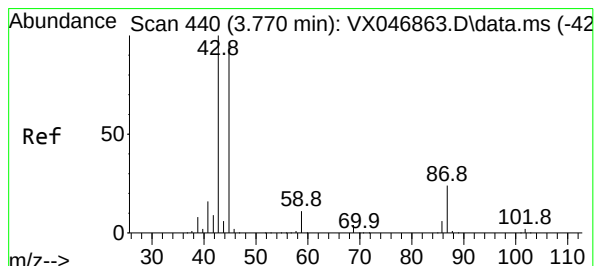
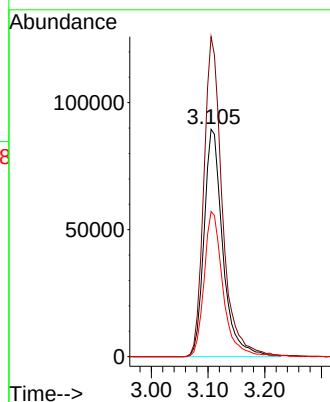
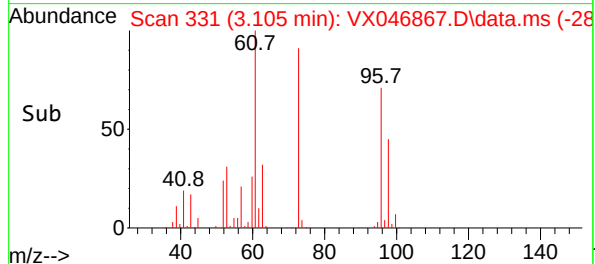
Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225



Tgt Ion: 96 Resp: 205950
Ion Ratio Lower Upper
96 100
61 140.7 113.4 170.2
98 63.8 51.8 77.6

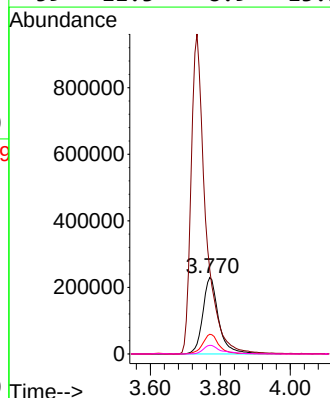
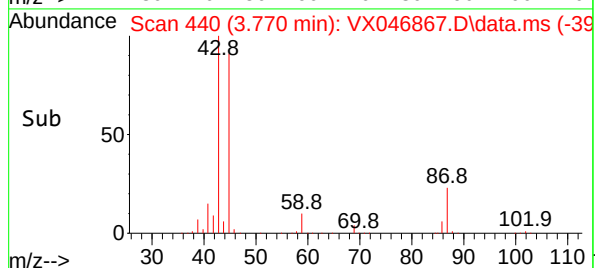
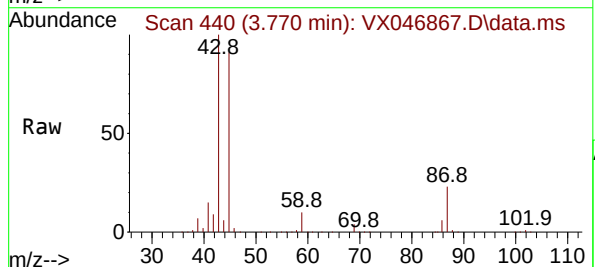
Manual Integrations
APPROVED

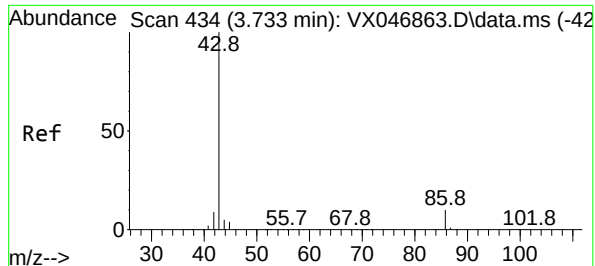
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#22
Diisopropyl ether
Concen: 51.568 ug/l
RT: 3.770 min Scan# 440
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Tgt Ion: 45 Resp: 723627
Ion Ratio Lower Upper
45 100
43 109.6 84.2 126.4
87 25.8 20.3 30.5
59 11.3 8.9 13.3





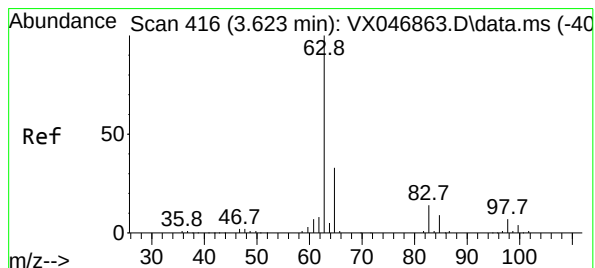
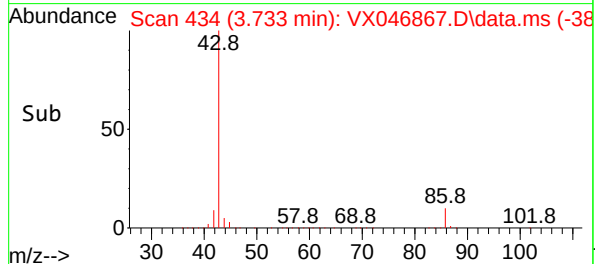
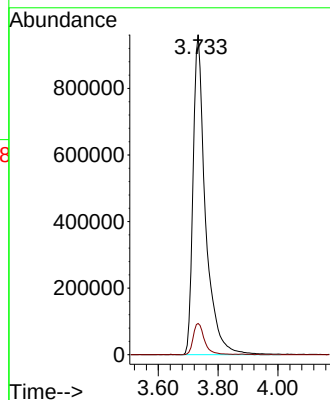
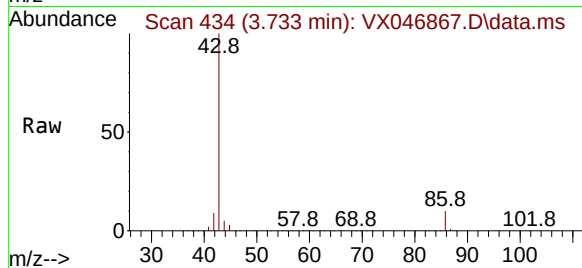
#23
Vinyl Acetate
Concen: 264.173 ug/l
RT: 3.733 min Scan# 41
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Tgt Ion: 43 Resp: 2777219
Ion Ratio Lower Upper
43 100
86 9.8 8.2 12.4

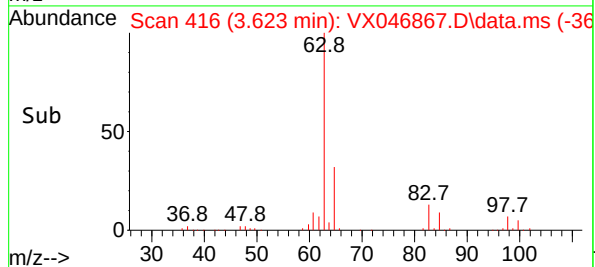
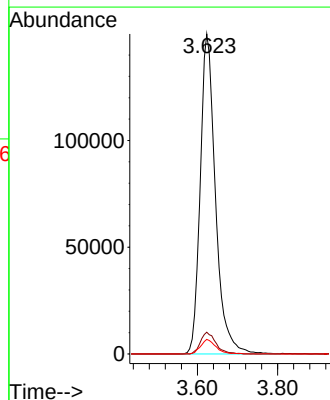
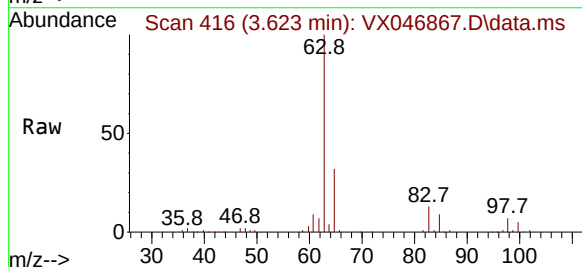
Manual Integrations
APPROVED

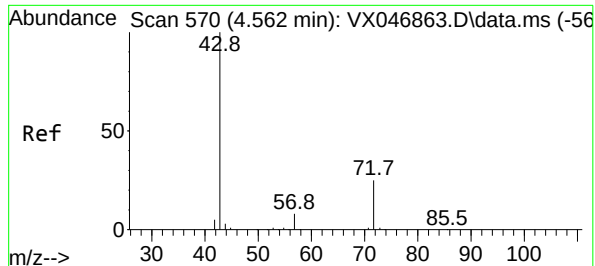
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#24
1,1-Dichloroethane
Concen: 49.449 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Tgt Ion: 63 Resp: 395739
Ion Ratio Lower Upper
63 100
98 6.8 3.6 10.9
100 4.8 2.3 6.9





#25

2-Butanone

Concen: 261.552 ug/l

RT: 4.562 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVVX070225

Tgt Ion: 43 Resp: 53875

Ion Ratio Lower Upper

43 100

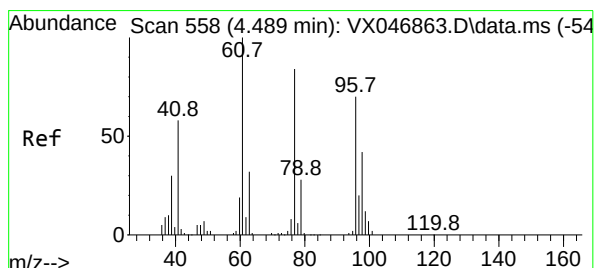
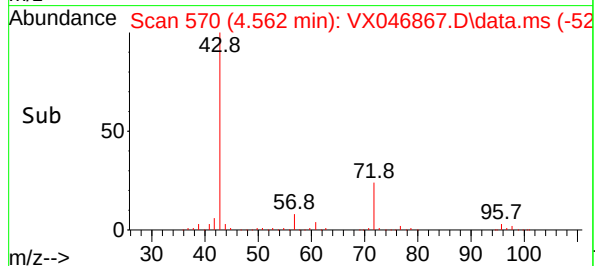
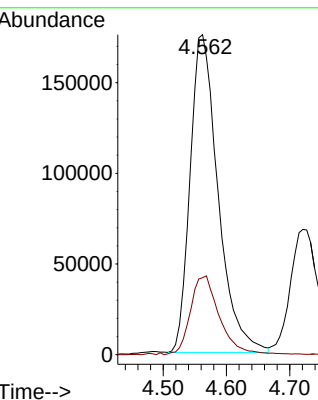
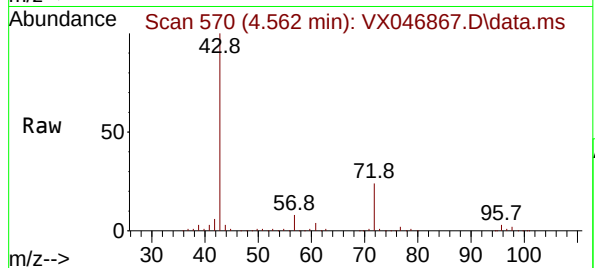
72 24.1 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#26

2,2-Dichloropropane

Concen: 49.351 ug/l

RT: 4.489 min Scan# 558

Delta R.T. 0.000 min

Lab File: VX046867.D

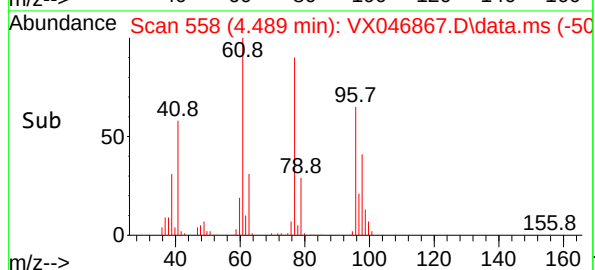
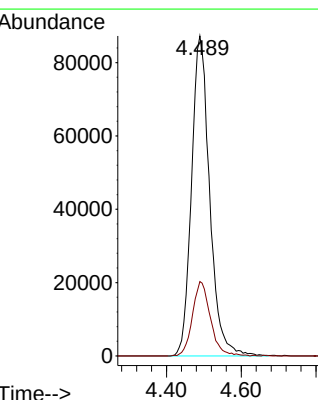
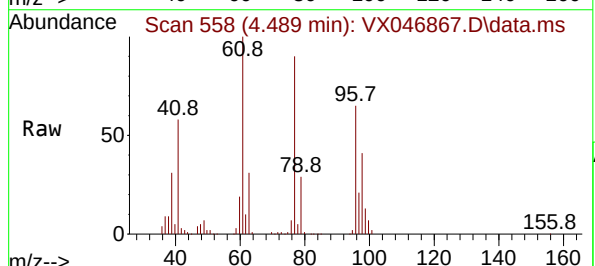
Acq: 02 Jul 2025 15:14

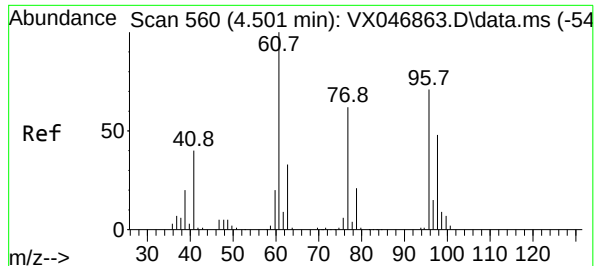
Tgt Ion: 77 Resp: 293933

Ion Ratio Lower Upper

77 100

97 23.1 11.5 34.5





#27

cis-1,2-Dichloroethene

Concen: 48.630 ug/l

RT: 4.501 min Scan# 560

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVX070225

Tgt Ion: 96 Resp: 247860

Ion Ratio Lower Upper

96 100

61 145.1 0.0 288.6

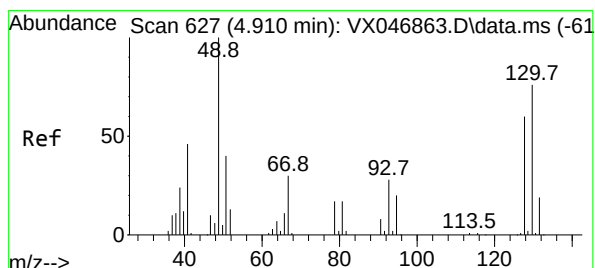
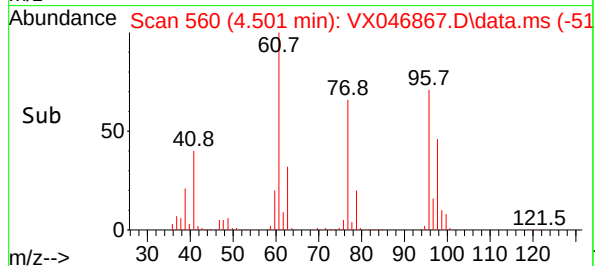
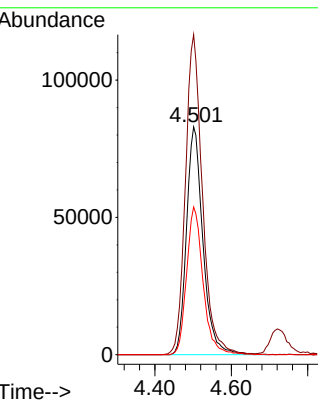
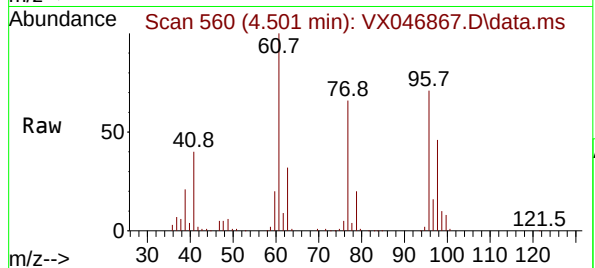
98 64.8 0.0 128.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#28

Bromochloromethane

Concen: 50.232 ug/l

RT: 4.910 min Scan# 627

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

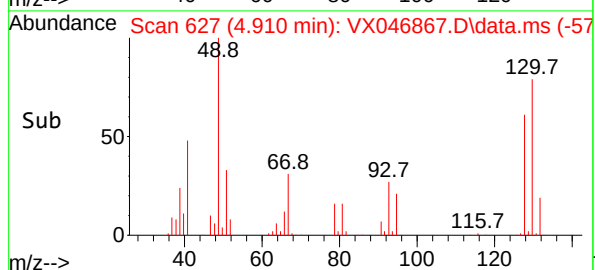
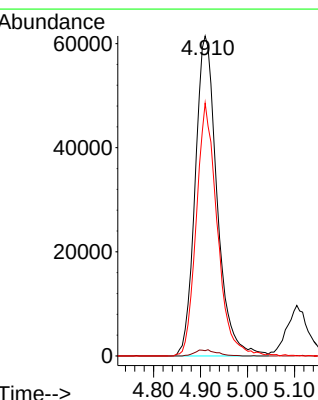
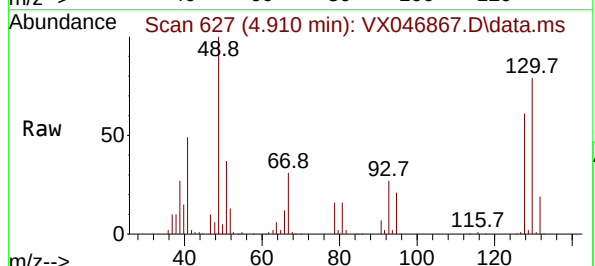
Tgt Ion: 49 Resp: 198401

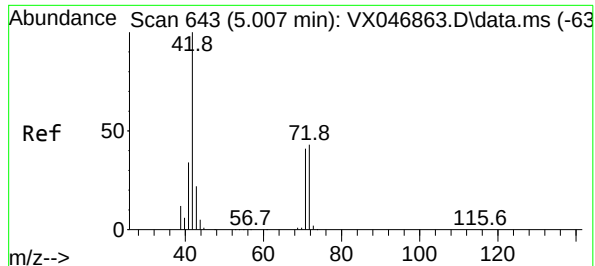
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.2

130 75.5 61.7 92.5





#29

Tetrahydrofuran

Concen: 267.272 ug/l

RT: 5.013 min Scan# 643

Delta R.T. 0.006 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVX070225

Tgt Ion: 42 Resp: 35094

Ion Ratio Lower Upper

42 100

72 43.1 35.1 52.7

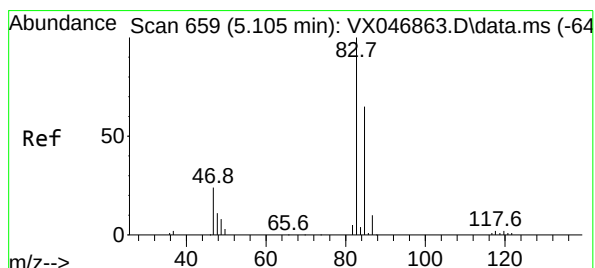
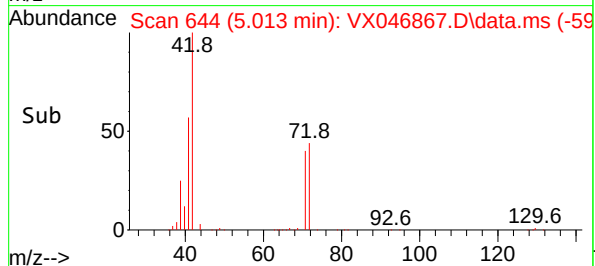
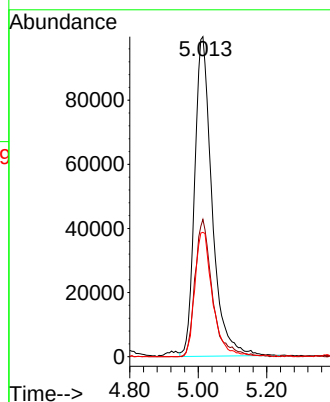
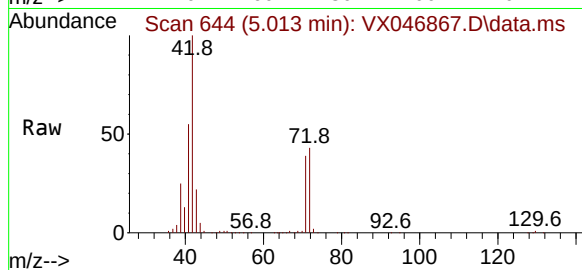
71 40.0 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#30

Chloroform

Concen: 48.348 ug/l

RT: 5.105 min Scan# 659

Delta R.T. 0.000 min

Lab File: VX046867.D

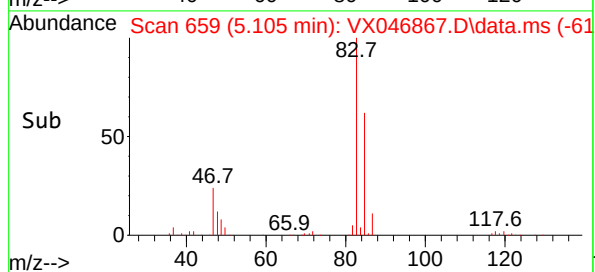
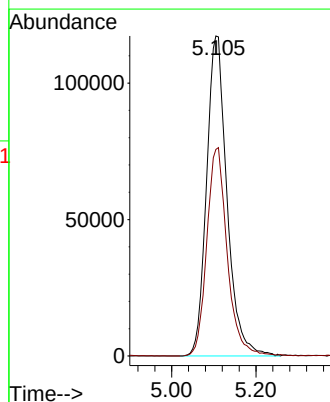
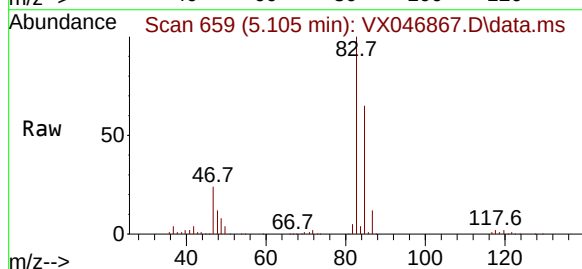
Acq: 02 Jul 2025 15:14

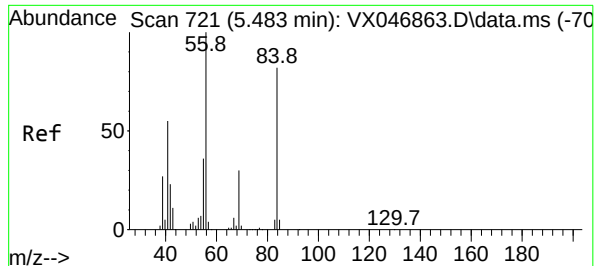
Tgt Ion: 83 Resp: 395292

Ion Ratio Lower Upper

83 100

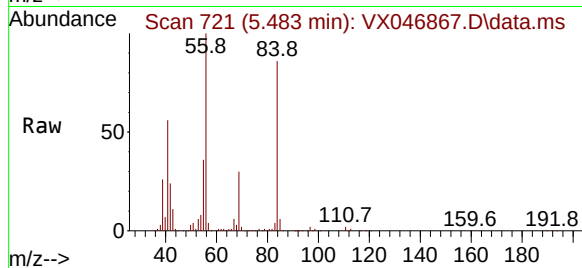
85 64.6 51.8 77.8





#31
Cyclohexane
Concen: 49.328 ug/l
RT: 5.483 min Scan# 721
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

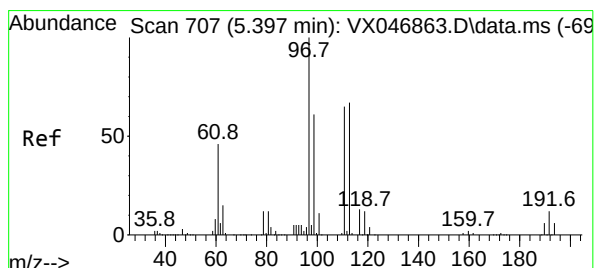
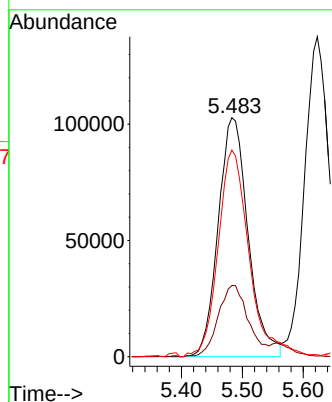
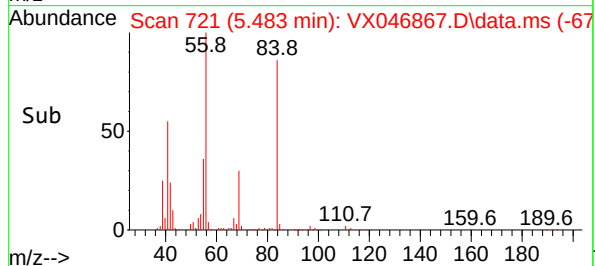
Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225



Tgt Ion: 56 Resp: 35046
Ion Ratio Lower Upper
56 100
69 29.2 24.0 36.0
84 86.4 66.5 99.7

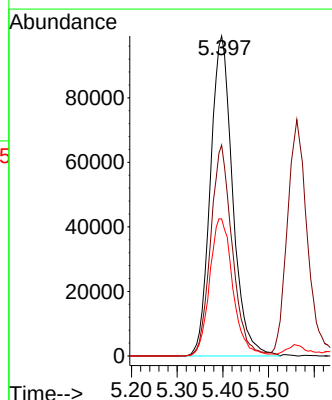
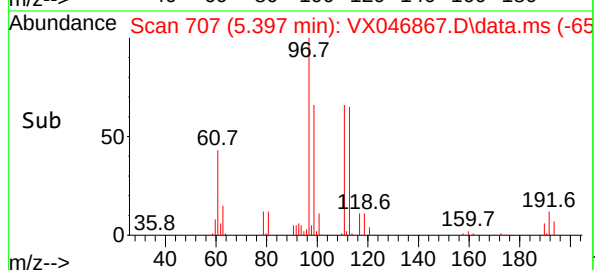
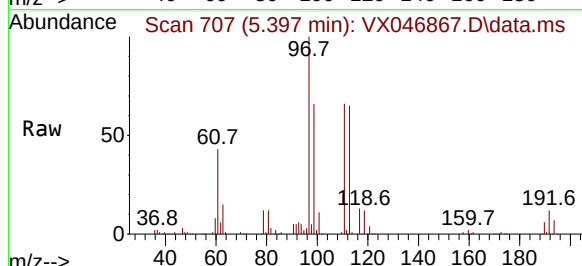
Manual Integrations
APPROVED

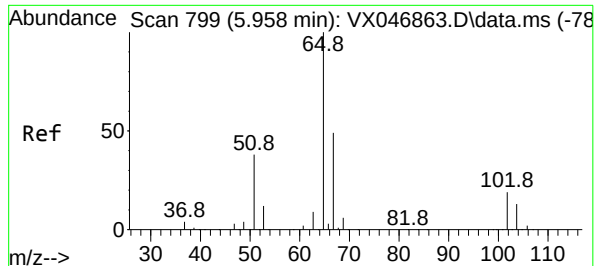
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#32
1,1,1-Trichloroethane
Concen: 49.101 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Tgt Ion: 97 Resp: 335397
Ion Ratio Lower Upper
97 100
99 64.1 50.6 76.0
61 44.7 36.3 54.5





#33

1,2-Dichloroethane-d4

Concen: 48.819 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.006 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVX070225

Tgt Ion: 65 Resp: 24264

Ion Ratio Lower Upper

65 100

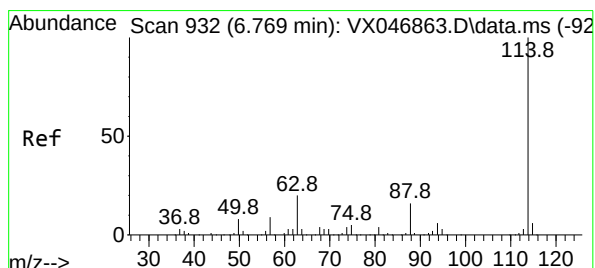
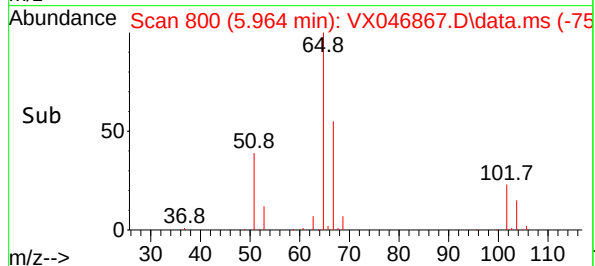
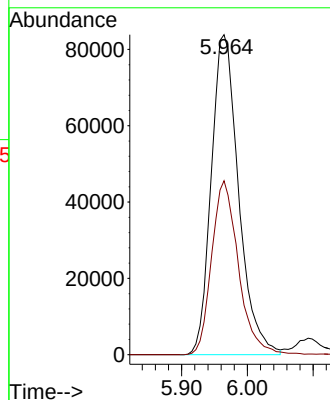
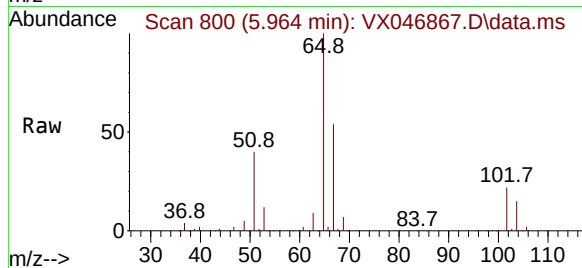
67 53.4 0.0 105.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

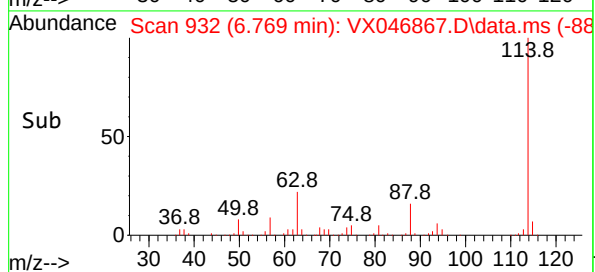
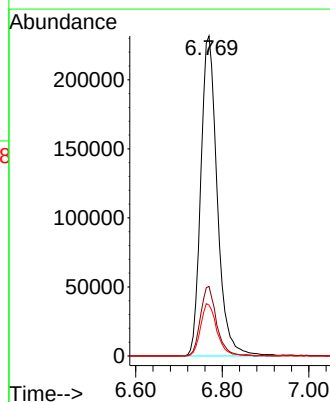
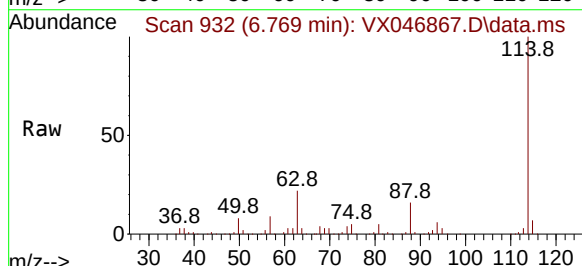
Tgt Ion:114 Resp: 610660

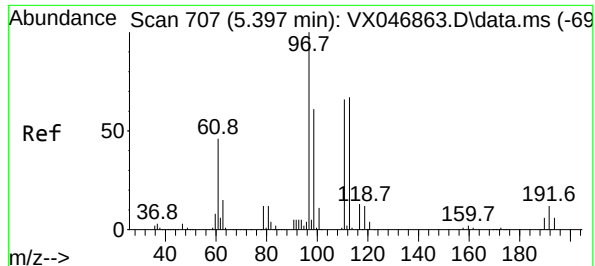
Ion Ratio Lower Upper

114 100

63 21.7 0.0 40.4

88 15.9 0.0 31.0





#35

Dibromofluoromethane

Concen: 50.377 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVX070225

Tgt Ion:113 Resp: 20882

Ion Ratio Lower Upper

113 100

111 101.0 81.2 121.8

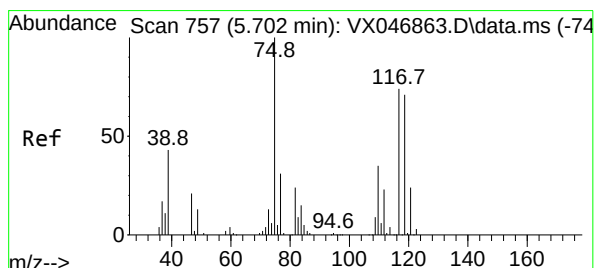
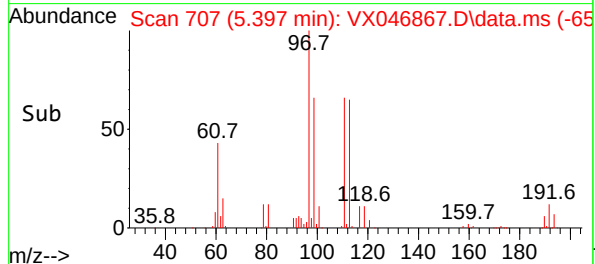
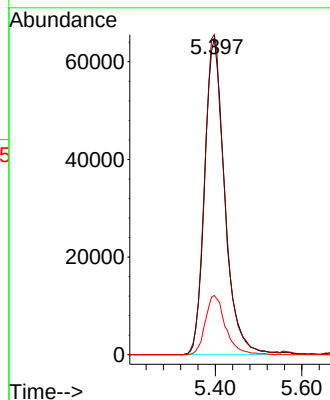
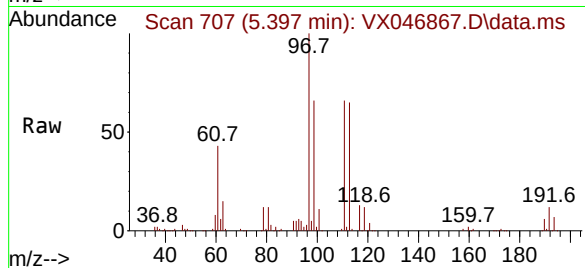
192 18.8 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#36

1,1-Dichloropropene

Concen: 49.261 ug/l

RT: 5.702 min Scan# 757

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

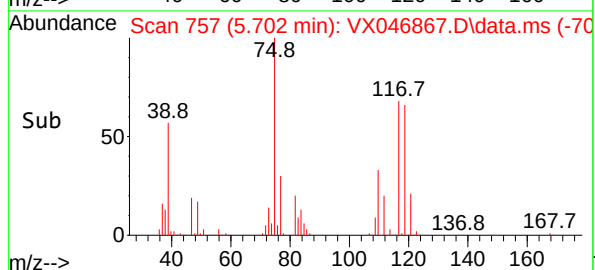
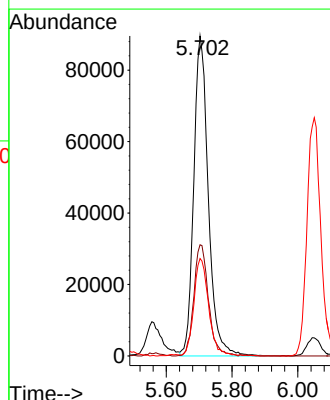
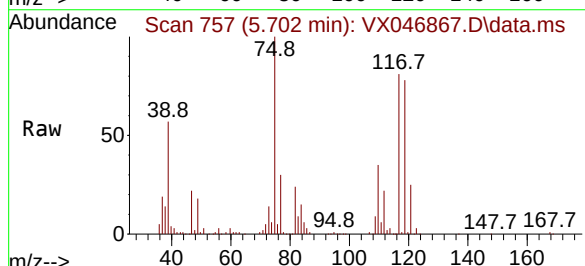
Tgt Ion: 75 Resp: 275506

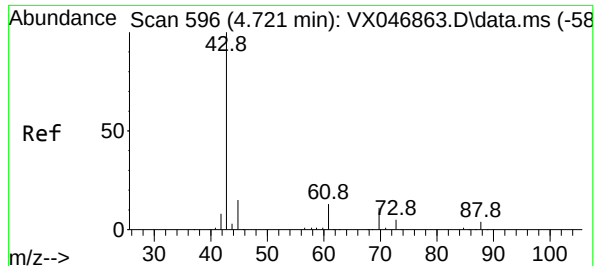
Ion Ratio Lower Upper

75 100

110 34.9 17.3 51.9

77 30.5 24.2 36.4





#37

Ethyl Acetate

Concen: 48.151 ug/l

RT: 4.721 min Scan# 596

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

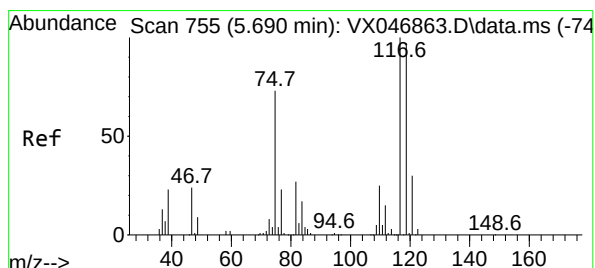
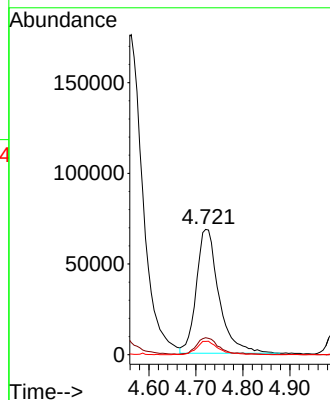
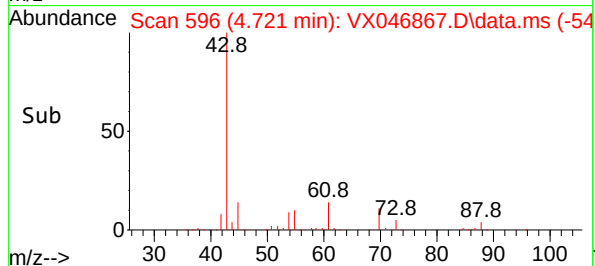
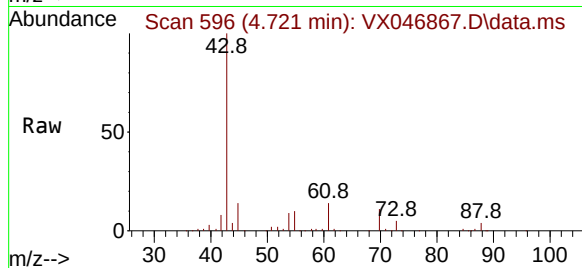
ICVX070225

Tgt Ion:	43	Resp:	229364
Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.7	14.5
70	10.4	8.3	12.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#38

Carbon Tetrachloride

Concen: 49.327 ug/l

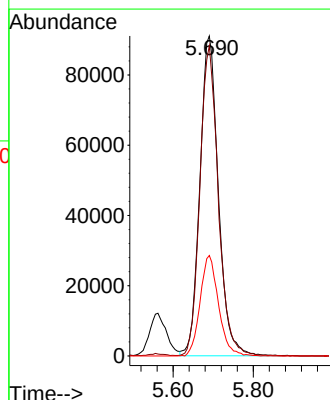
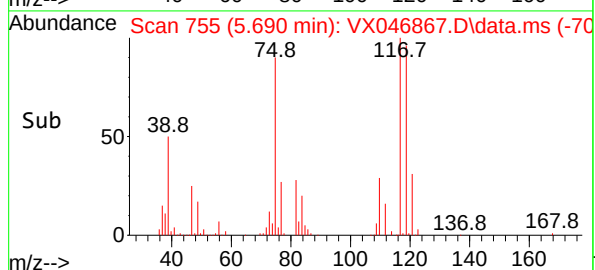
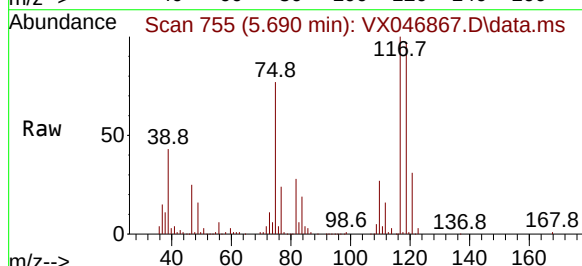
RT: 5.690 min Scan# 755

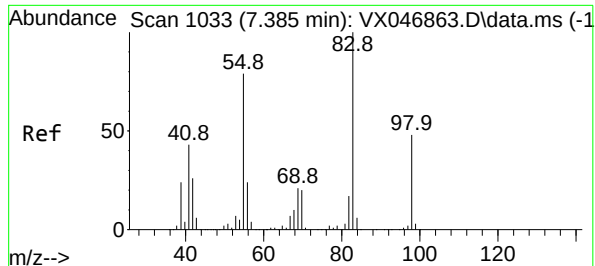
Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Tgt Ion:	117	Resp:	291659
Ion	Ratio	Lower	Upper
117	100		
119	96.9	76.6	114.8
121	31.4	24.1	36.1





#39

Methylcyclohexane

Concen: 50.747 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVX070225

Tgt Ion: 83 Resp: 355028

Ion Ratio Lower Upper

83 100

55 79.8 63.0 94.4

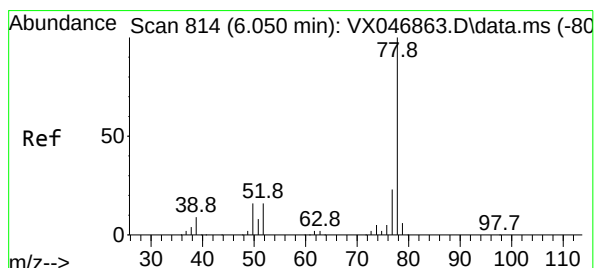
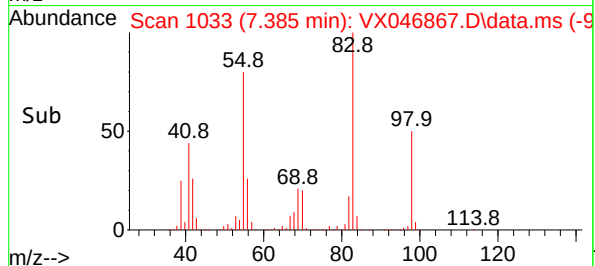
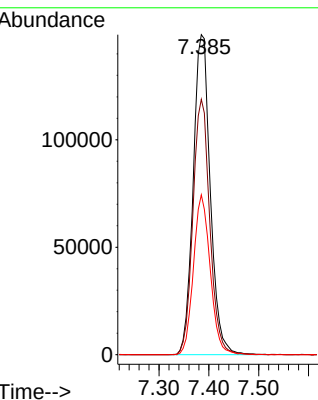
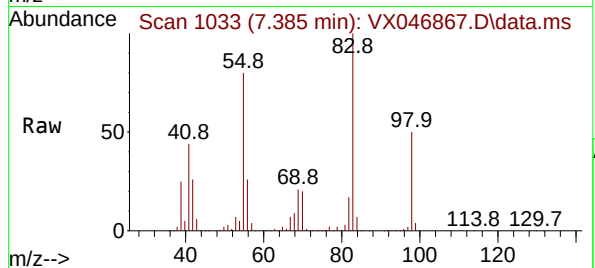
98 50.0 38.5 57.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#40

Benzene

Concen: 49.375 ug/l

RT: 6.050 min Scan# 814

Delta R.T. 0.000 min

Lab File: VX046867.D

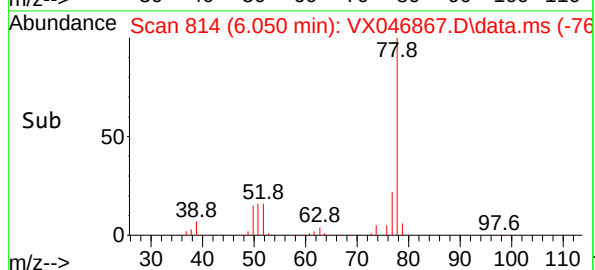
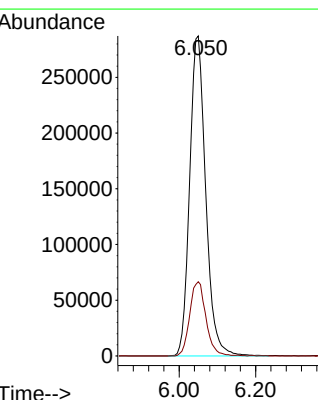
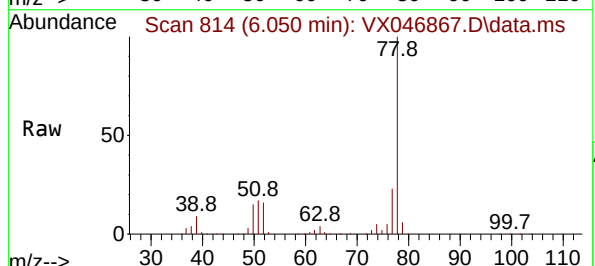
Acq: 02 Jul 2025 15:14

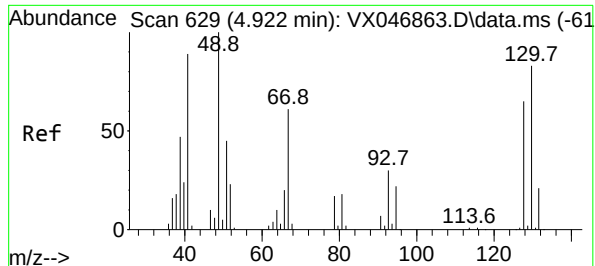
Tgt Ion: 78 Resp: 835235

Ion Ratio Lower Upper

78 100

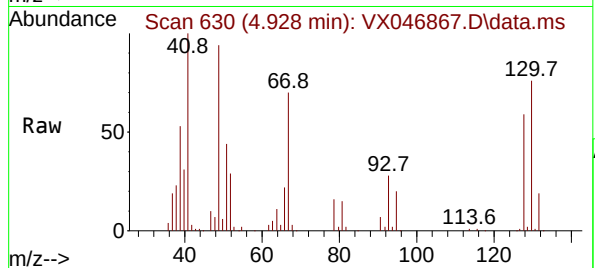
77 23.2 18.7 28.1





#41
Methacrylonitrile
Concen: 54.246 ug/l
RT: 4.928 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

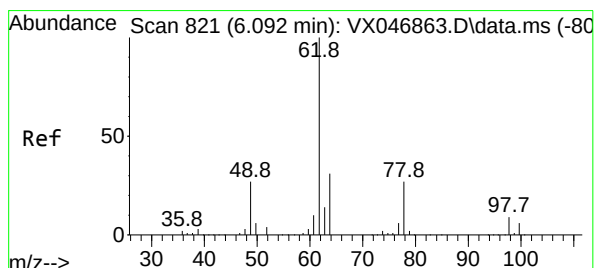
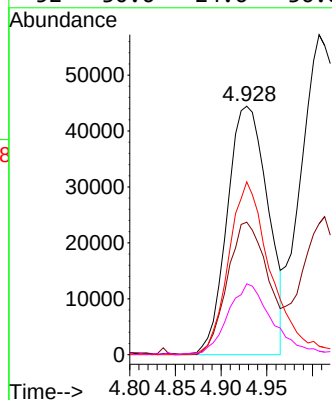
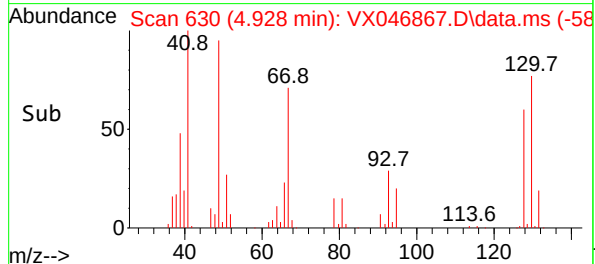
Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225



Tgt Ion: 41 Resp: 13784
Ion Ratio Lower Upper
41 100
39 52.4 43.0 64.4
67 72.4 60.2 90.2
52 30.6 24.6 36.8

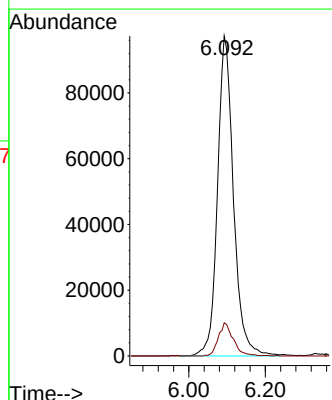
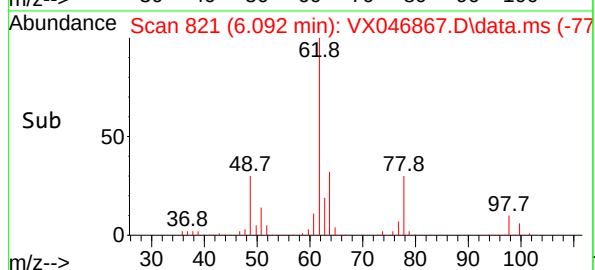
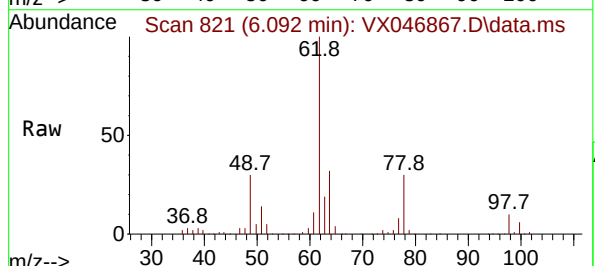
Manual Integrations
APPROVED

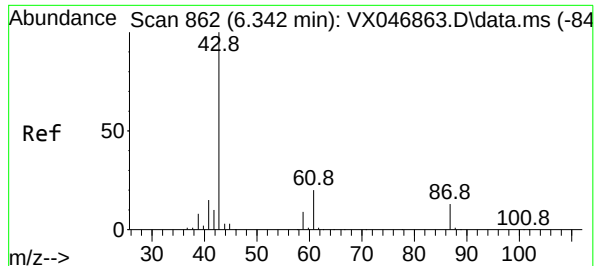
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#42
1,2-Dichloroethane
Concen: 49.110 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Tgt Ion: 62 Resp: 282094
Ion Ratio Lower Upper
62 100
98 9.7 0.0 19.4





#43

Isopropyl Acetate

Concen: 53.586 ug/l

RT: 6.342 min Scan# 862

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVVX070225

Tgt Ion: 43 Resp: 390969

Ion Ratio Lower Upper

43 100

61 19.3 15.7 23.5

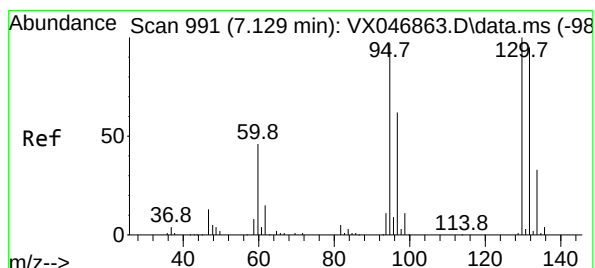
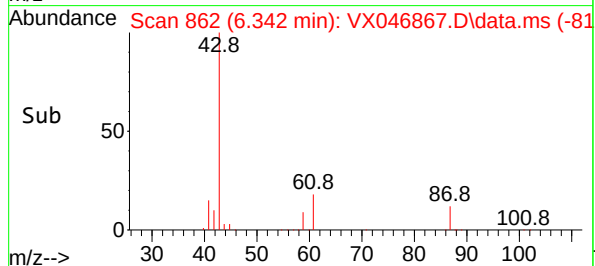
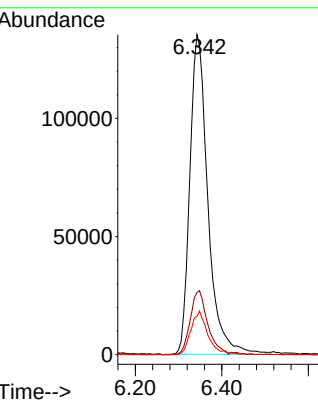
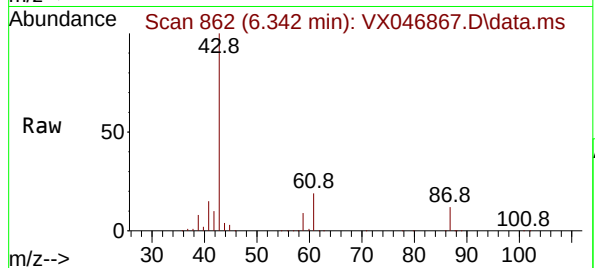
87 12.9 10.1 15.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#44

Trichloroethene

Concen: 48.321 ug/l

RT: 7.129 min Scan# 991

Delta R.T. 0.000 min

Lab File: VX046867.D

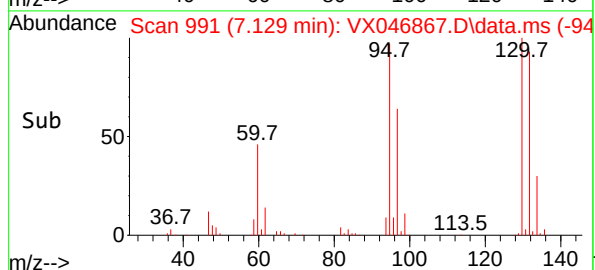
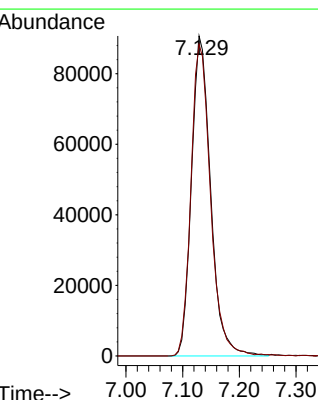
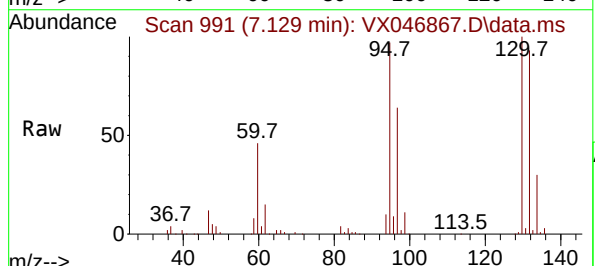
Acq: 02 Jul 2025 15:14

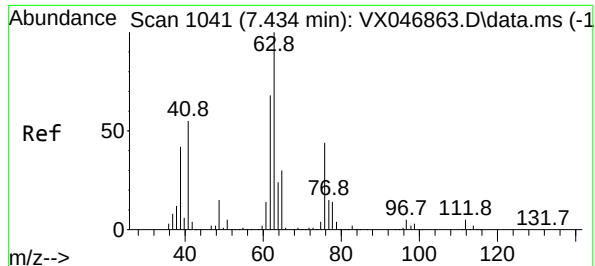
Tgt Ion:130 Resp: 212780

Ion Ratio Lower Upper

130 100

95 97.3 0.0 194.2





#45

1,2-Dichloropropane

Concen: 49.920 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVVX070225

Tgt Ion: 63 Resp: 21335

Ion Ratio Lower Upper

63 100

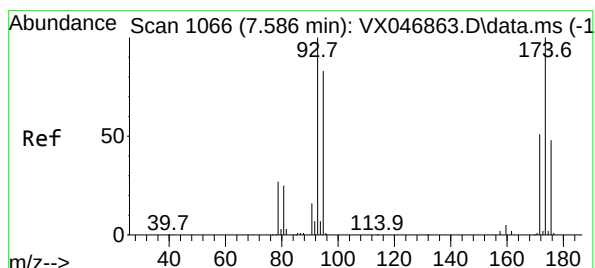
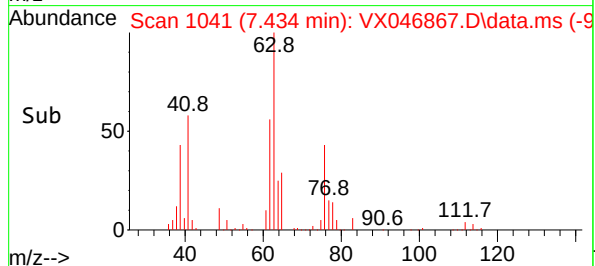
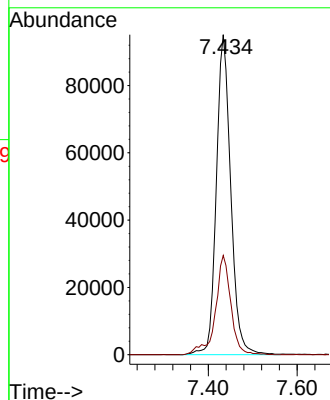
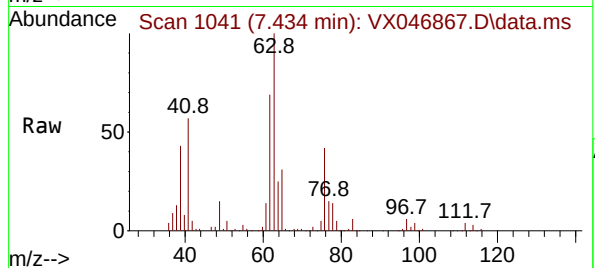
65 31.0 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#46

Dibromomethane

Concen: 49.494 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

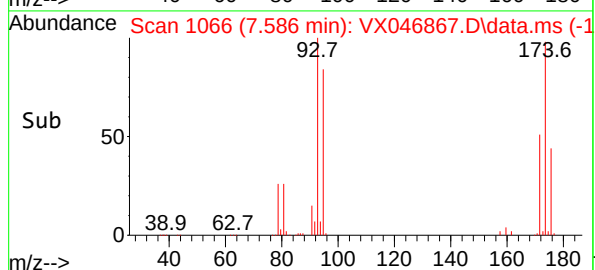
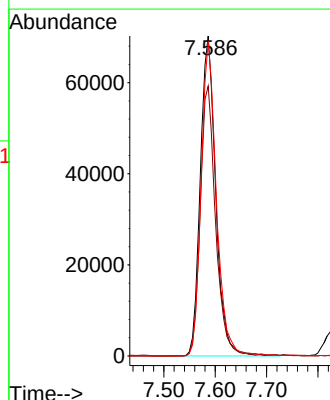
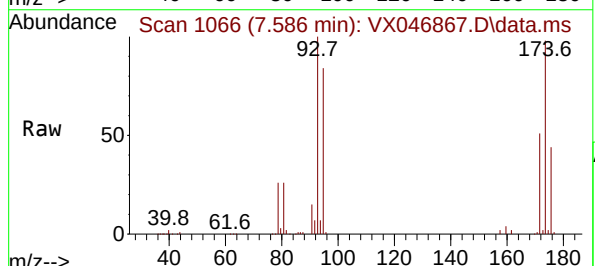
Tgt Ion: 93 Resp: 146563

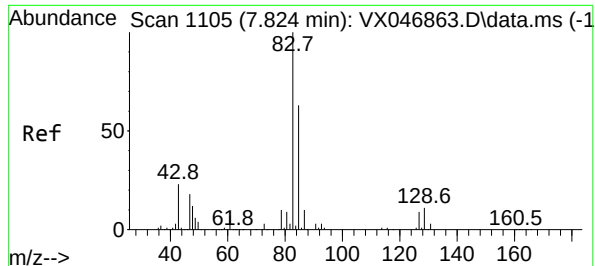
Ion Ratio Lower Upper

93 100

95 83.3 66.6 99.8

174 97.4 77.4 116.2





#47

Bromodichloromethane

Concen: 49.516 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVVX070225

Tgt Ion: 83 Resp: 31308

Ion Ratio Lower Upper

83 100

85 65.0 50.2 75.4

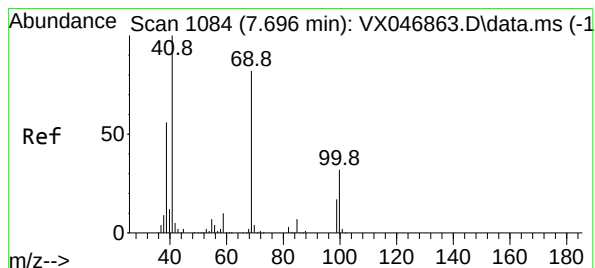
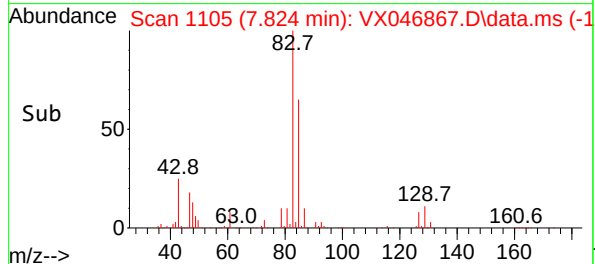
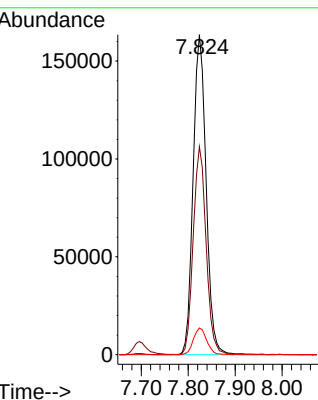
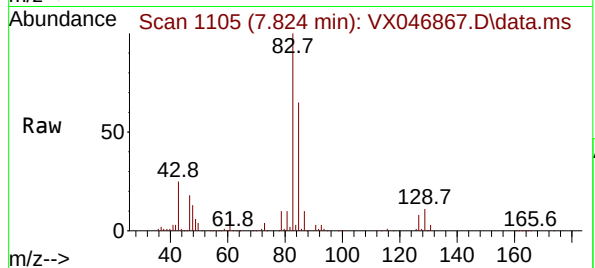
127 8.4 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#48

Methyl methacrylate

Concen: 54.886 ug/l

RT: 7.696 min Scan# 1084

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

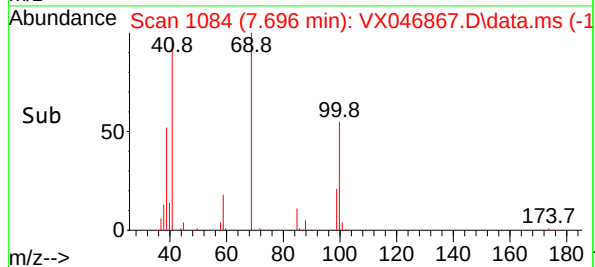
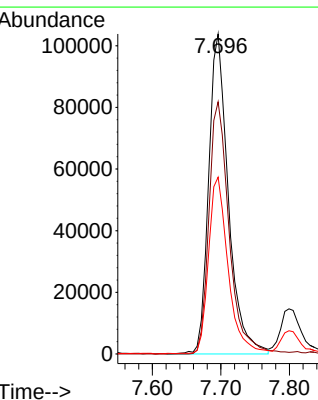
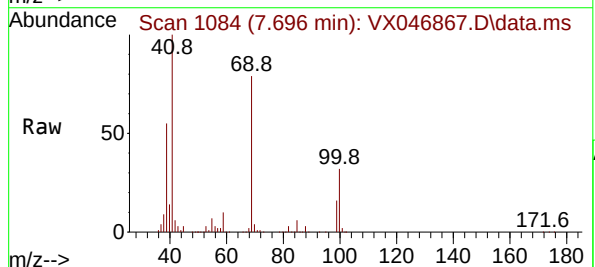
Tgt Ion: 41 Resp: 206773

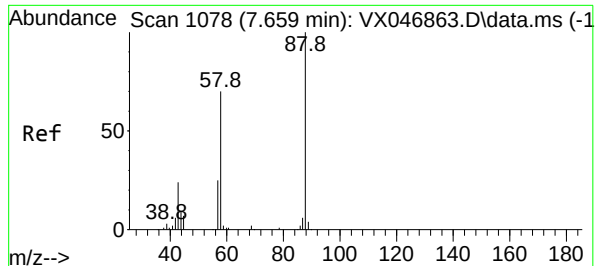
Ion Ratio Lower Upper

41 100

69 80.8 65.8 98.8

39 55.1 43.8 65.6





#49

1,4-Dioxane

Concen: 1081.463 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVVX070225

Tgt Ion: 88 Resp: 47208

Ion Ratio Lower Upper

88 100

43 39.6 31.7 47.5

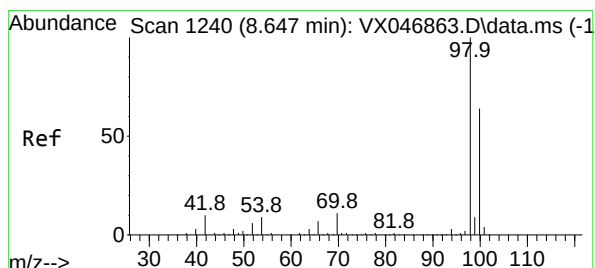
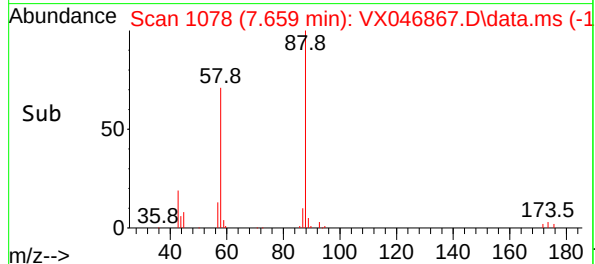
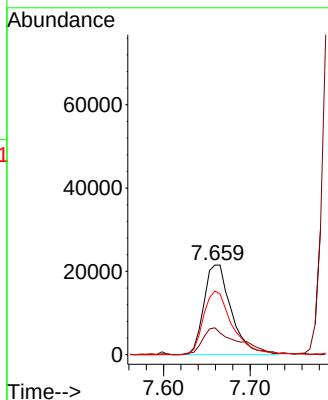
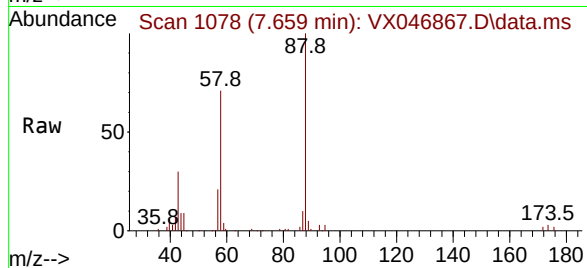
58 74.7 57.5 86.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#50

Toluene-d8

Concen: 50.047 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX046867.D

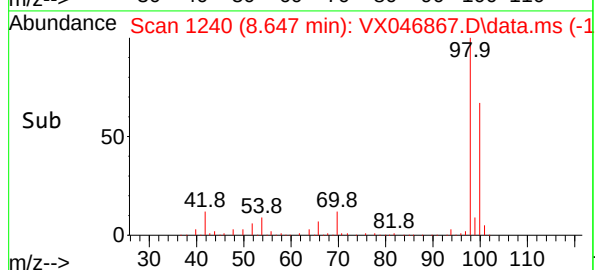
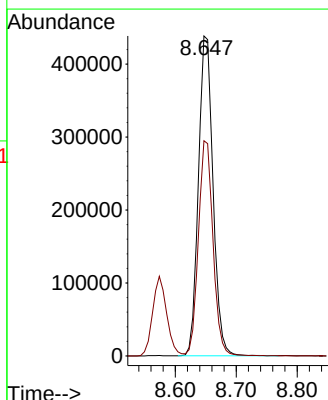
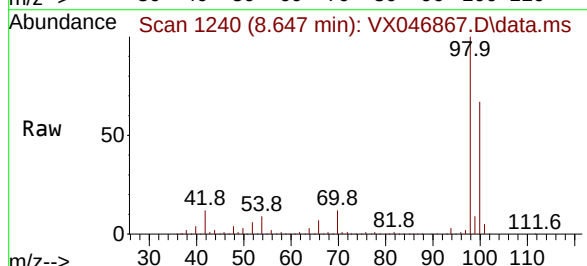
Acq: 02 Jul 2025 15:14

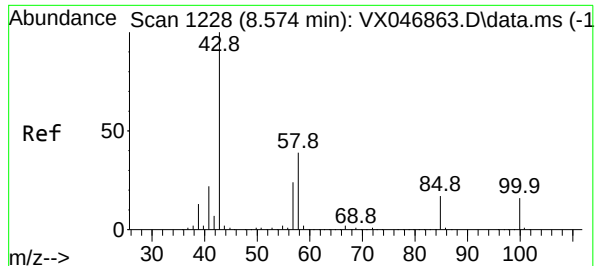
Tgt Ion: 98 Resp: 731941

Ion Ratio Lower Upper

98 100

100 67.1 53.0 79.6





#51

4-Methyl-2-Pentanone

Concen: 270.137 ug/l

RT: 8.574 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVVX070225

Tgt Ion: 43 Resp: 1163200

Ion Ratio Lower Upper

43 100

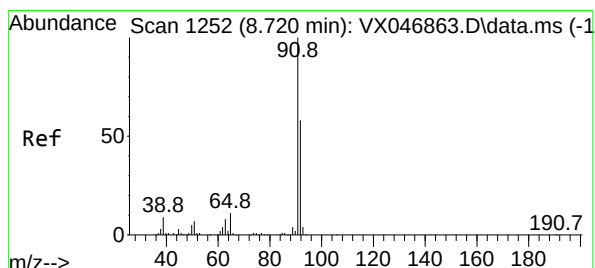
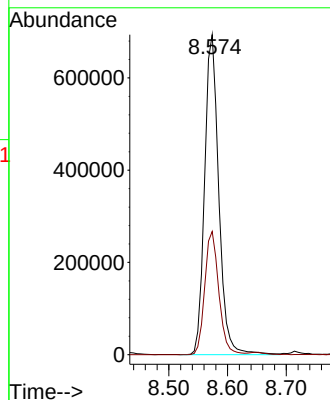
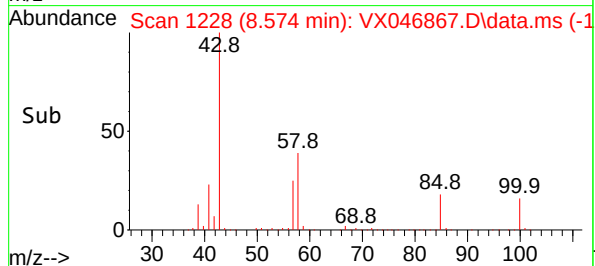
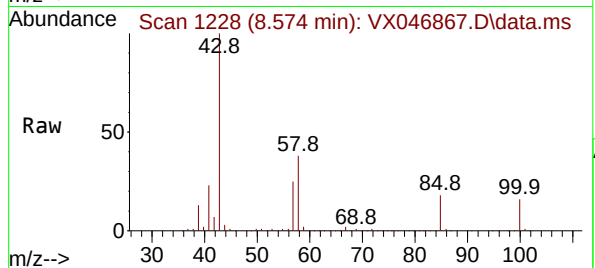
58 38.3 30.4 45.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#52

Toluene

Concen: 50.028 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX046867.D

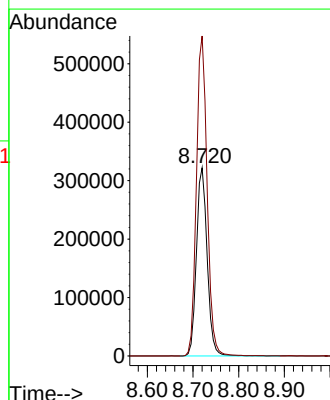
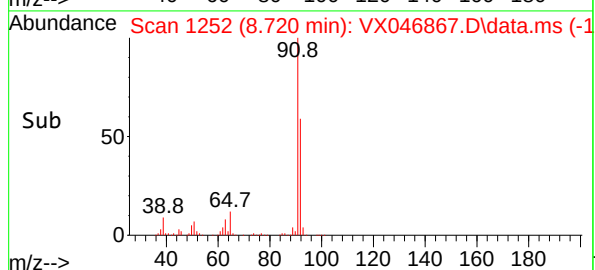
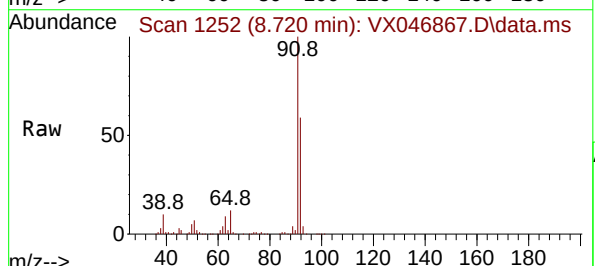
Acq: 02 Jul 2025 15:14

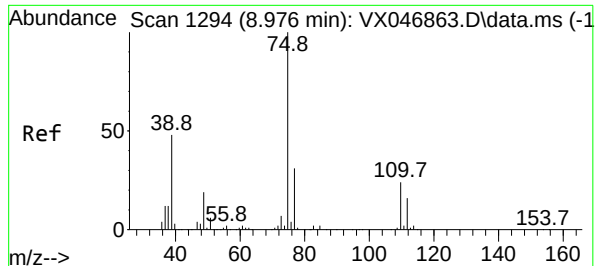
Tgt Ion: 92 Resp: 524414

Ion Ratio Lower Upper

92 100

91 169.8 137.9 206.9





#53

t-1,3-Dichloropropene

Concen: 52.871 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVVX070225

Tgt Ion: 75 Resp: 298344

Ion Ratio Lower Upper

75 100

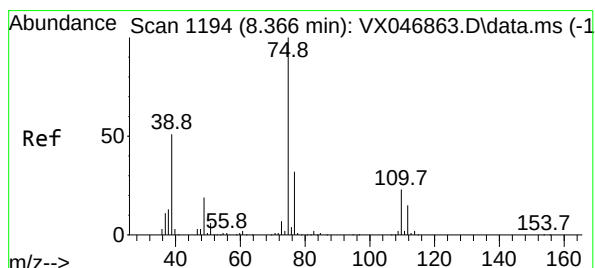
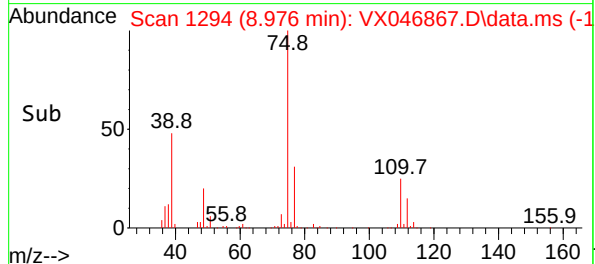
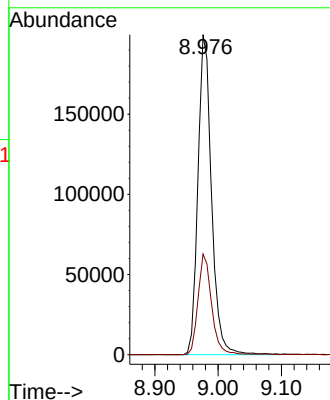
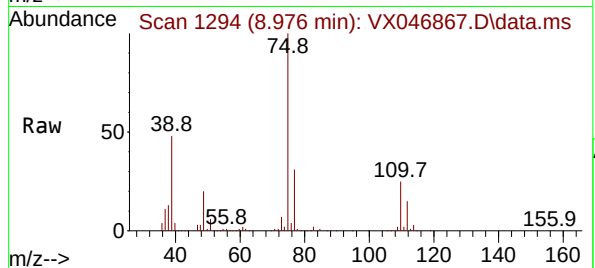
77 31.5 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#54

cis-1,3-Dichloropropene

Concen: 52.010 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

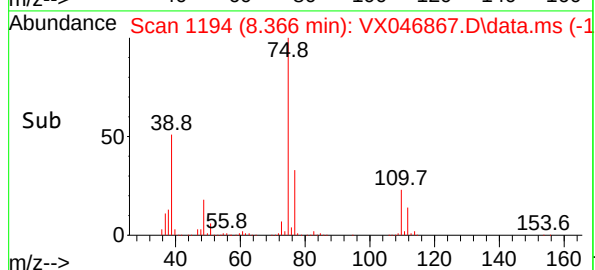
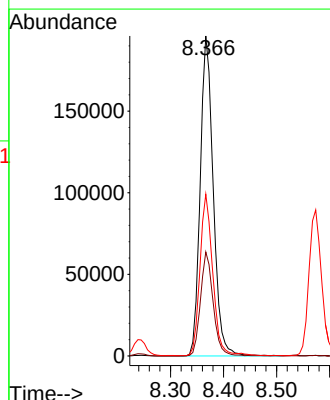
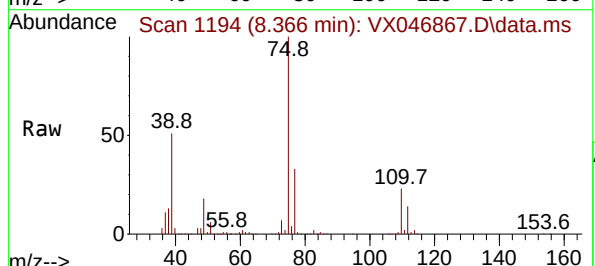
Tgt Ion: 75 Resp: 334998

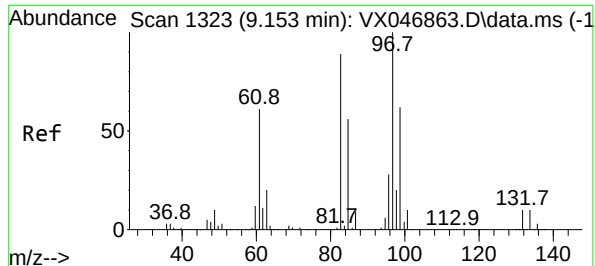
Ion Ratio Lower Upper

75 100

77 32.5 25.4 38.2

39 50.5 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 49.876 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVVX070225

Tgt Ion: 97 Resp: 194738

Ion Ratio Lower Upper

97 100

83 86.3 70.9 106.3

85 55.1 44.6 67.0

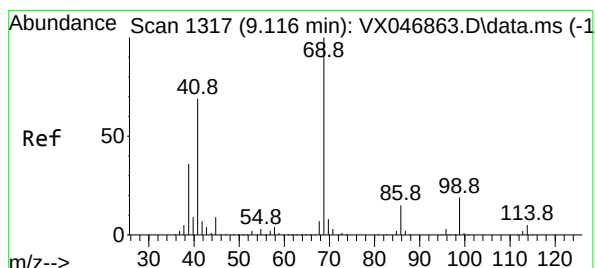
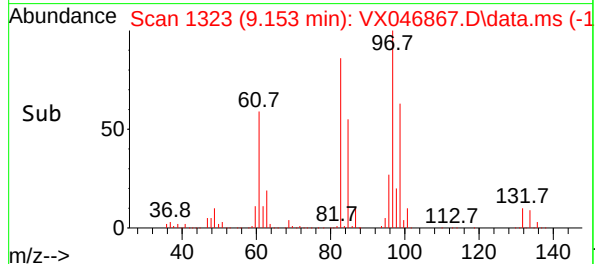
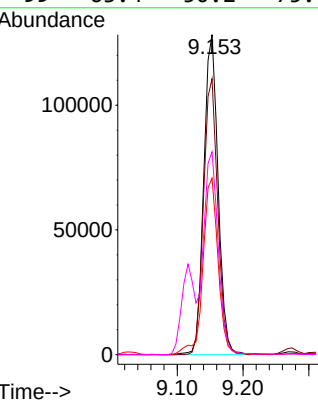
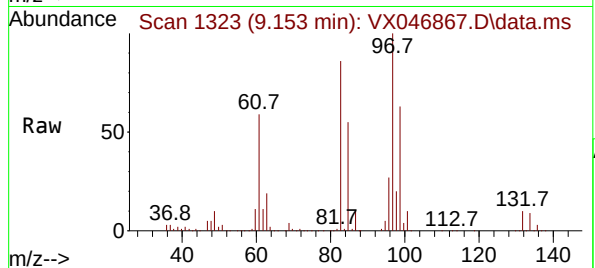
99 63.4 50.2 75.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#56

Ethyl methacrylate

Concen: 54.511 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

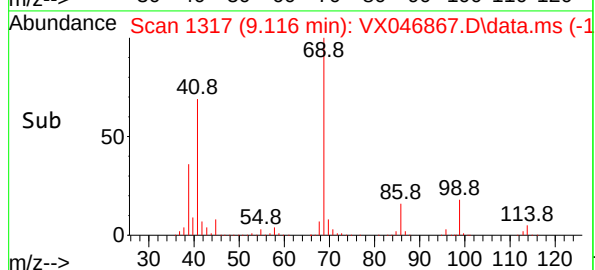
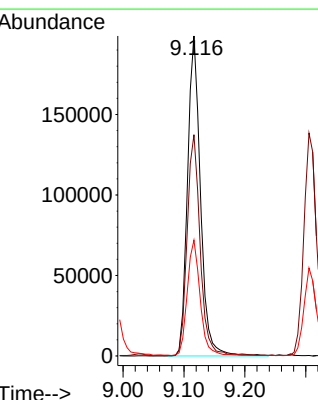
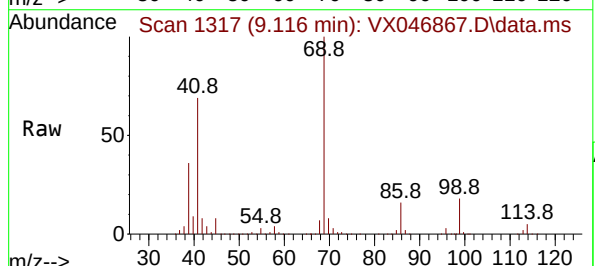
Tgt Ion: 69 Resp: 294579

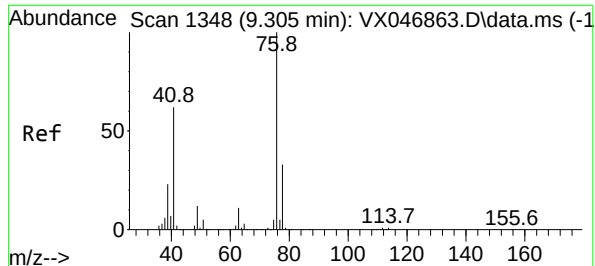
Ion Ratio Lower Upper

69 100

41 69.1 54.6 82.0

39 36.2 28.7 43.1





#57

1,3-Dichloropropane

Concen: 49.728 ug/l

RT: 9.305 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVX070225

Tgt Ion: 76 Resp: 33432

Ion Ratio Lower Upper

76 100

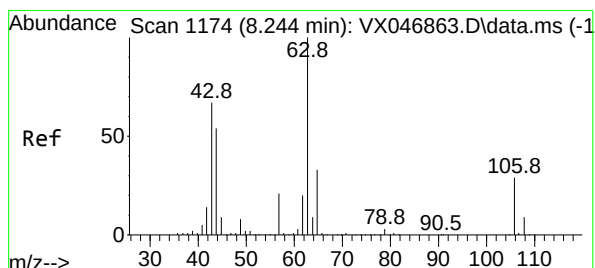
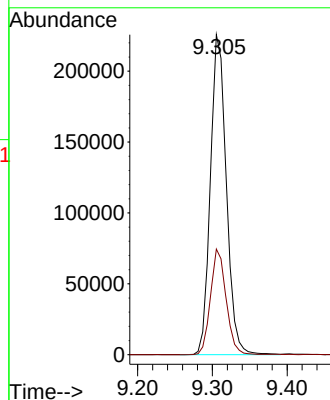
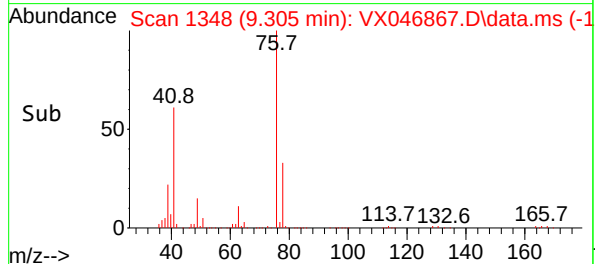
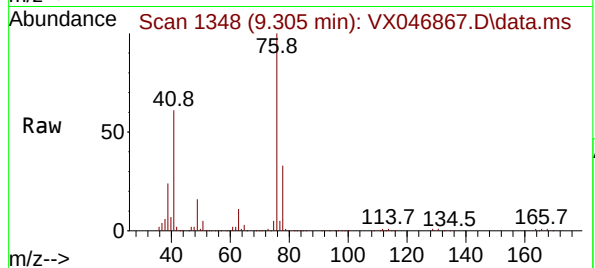
78 32.5 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#58

2-Chloroethyl Vinyl ether

Concen: 268.488 ug/l

RT: 8.245 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046867.D

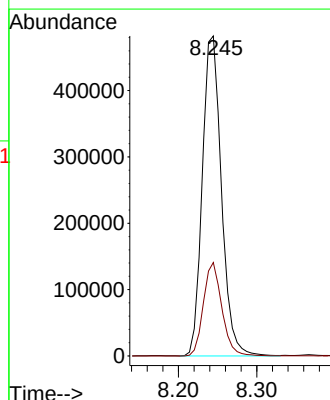
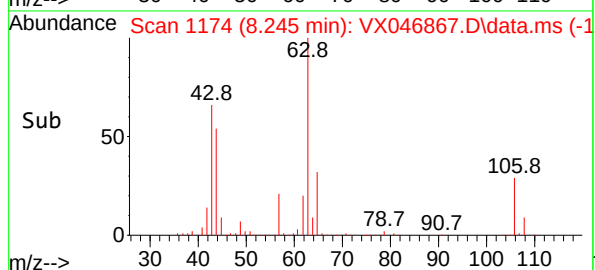
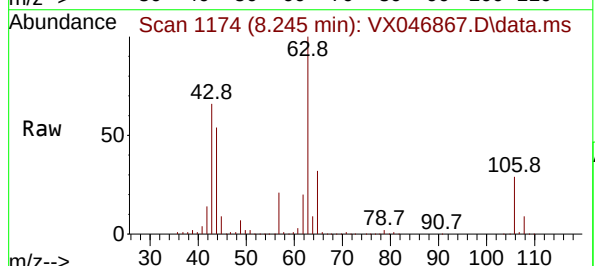
Acq: 02 Jul 2025 15:14

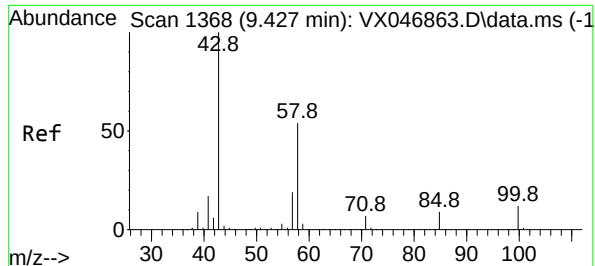
Tgt Ion: 63 Resp: 817519

Ion Ratio Lower Upper

63 100

106 28.2 22.6 33.8





#59

2-Hexanone

Concen: 277.453 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVVX070225

Tgt Ion: 43 Resp: 792449

Ion Ratio Lower Upper

43 100

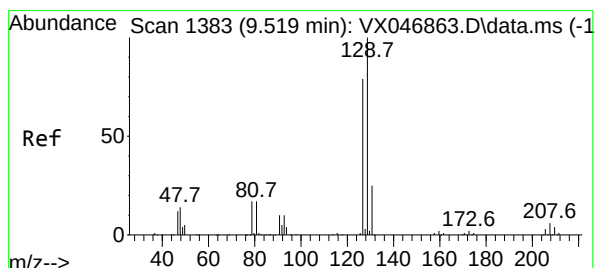
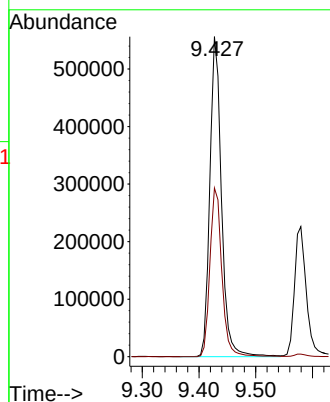
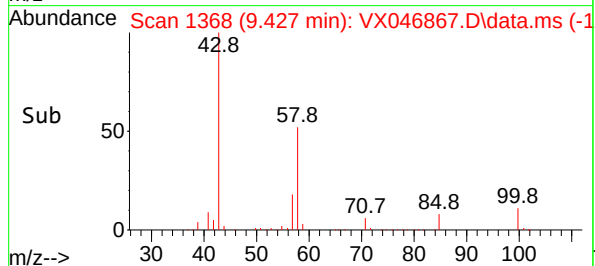
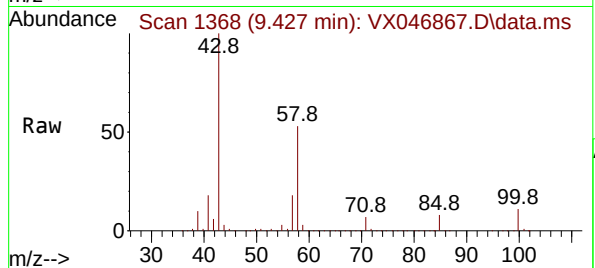
58 54.3 27.1 81.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#60

Dibromochloromethane

Concen: 50.089 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX046867.D

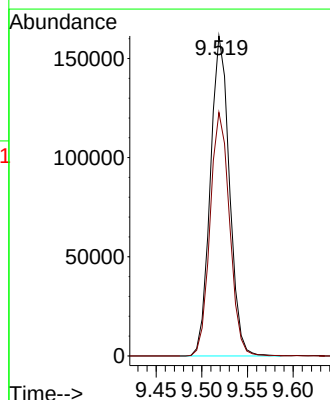
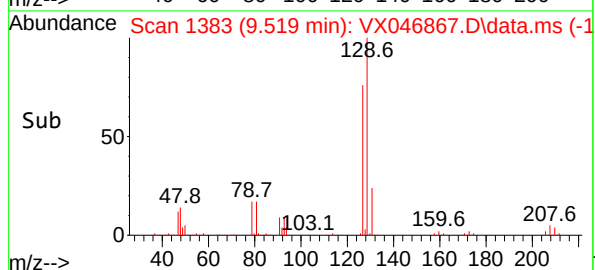
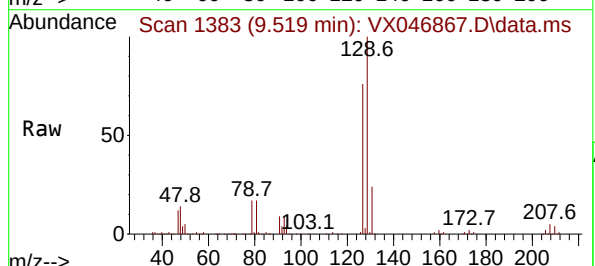
Acq: 02 Jul 2025 15:14

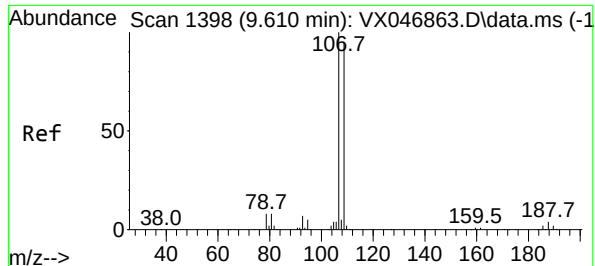
Tgt Ion:129 Resp: 234044

Ion Ratio Lower Upper

129 100

127 77.7 39.1 117.5





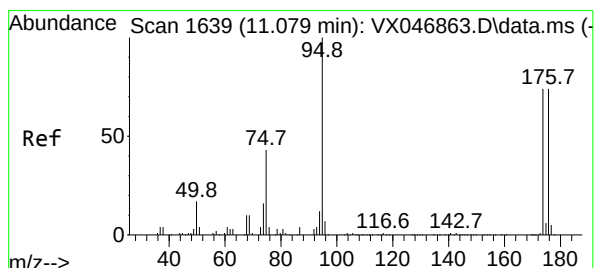
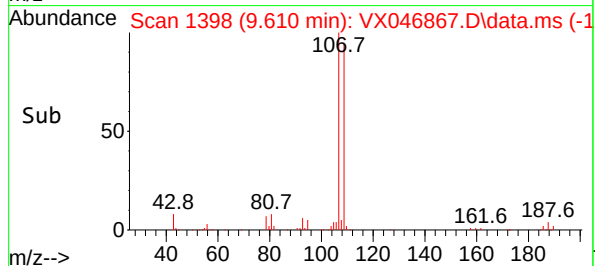
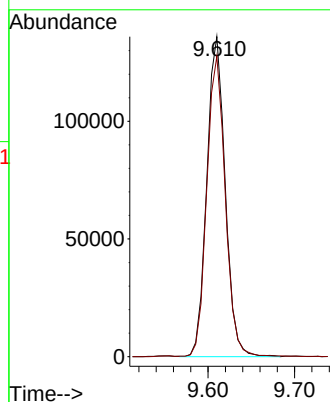
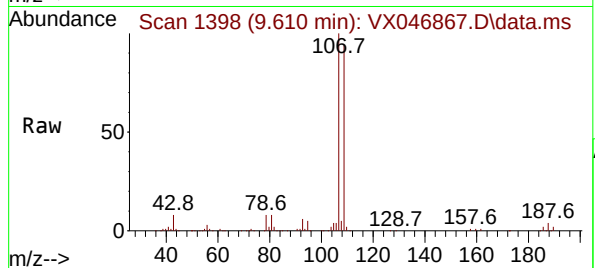
#61
1,2-Dibromoethane
Concen: 51.219 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Tgt Ion:107 Resp: 20084
Ion Ratio Lower Upper
107 100
109 94.1 75.4 113.2

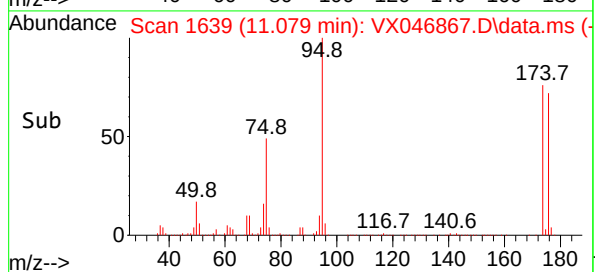
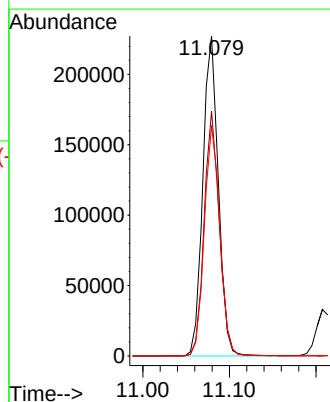
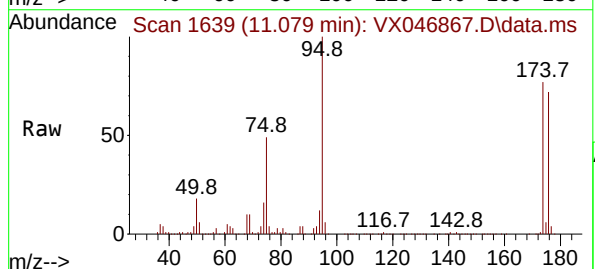
Manual Integrations
APPROVED

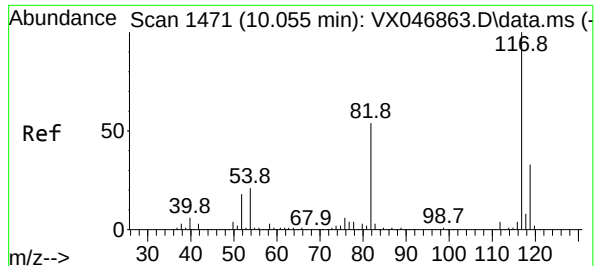
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#62
4-Bromofluorobenzene
Concen: 50.818 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

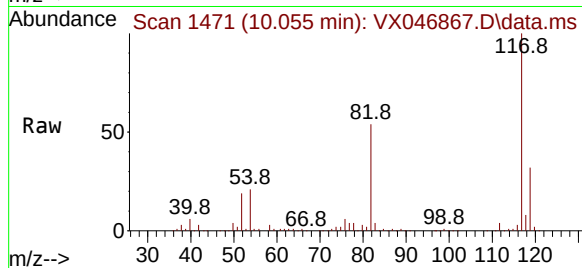
Tgt Ion: 95 Resp: 282463
Ion Ratio Lower Upper
95 100
174 74.7 0.0 152.0
176 72.5 0.0 145.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

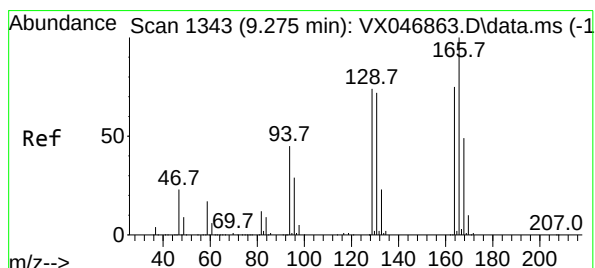
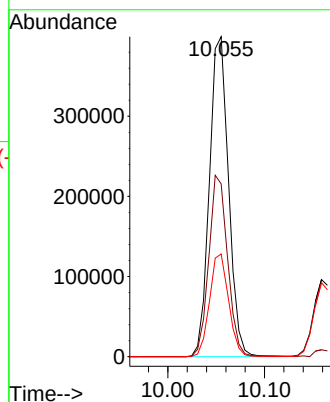
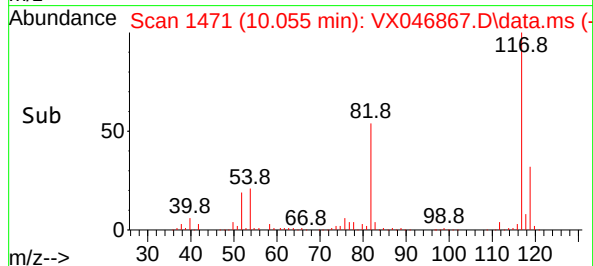
Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225



Tgt Ion:117 Resp: 549320
Ion Ratio Lower Upper
117 100
82 54.0 43.3 64.9
119 32.1 26.4 39.6

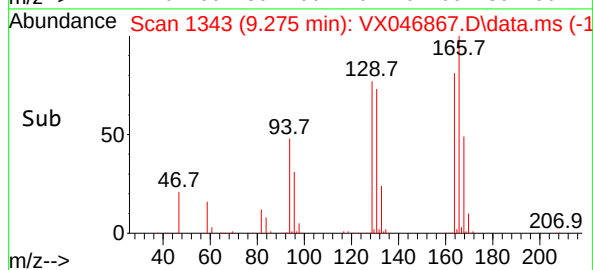
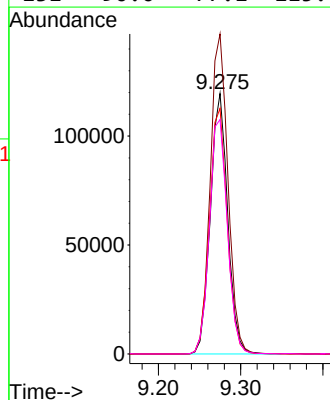
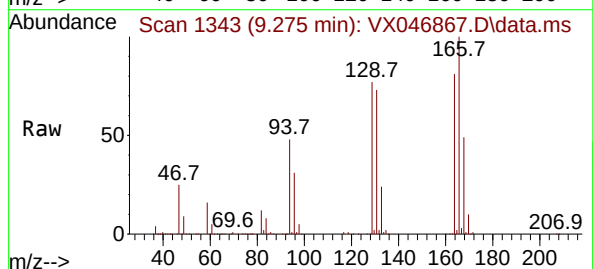
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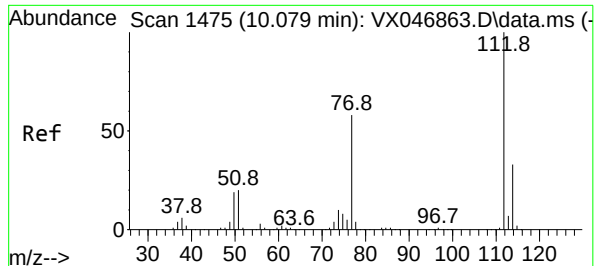
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#64
Tetrachloroethene
Concen: 47.773 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Tgt Ion:164 Resp: 174726
Ion Ratio Lower Upper
164 100
166 122.8 107.0 160.6
129 94.3 79.7 119.5
131 90.0 77.1 115.7





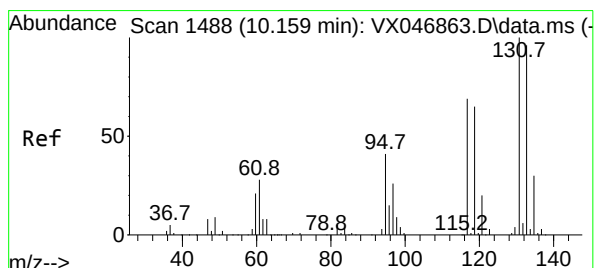
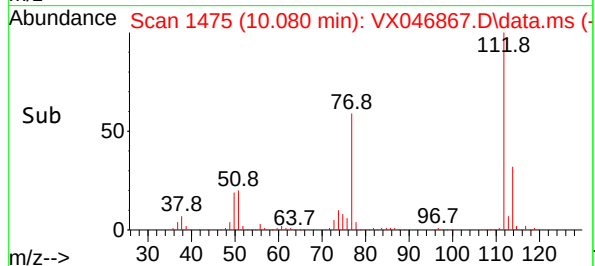
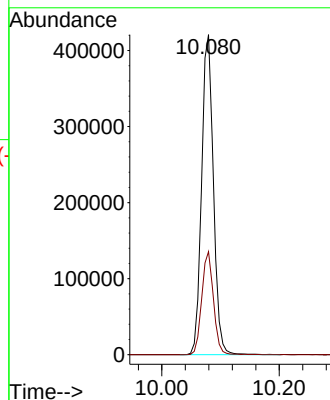
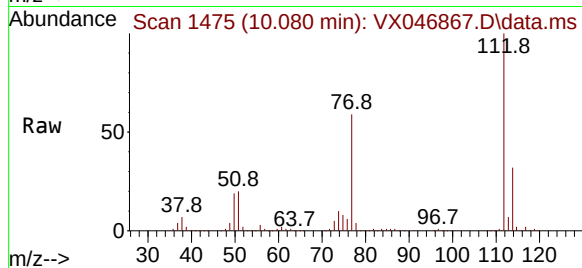
#65
Chlorobenzene
Concen: 49.208 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Tgt Ion:112 Resp: 584424
Ion Ratio Lower Upper
112 100
114 32.2 26.3 39.5

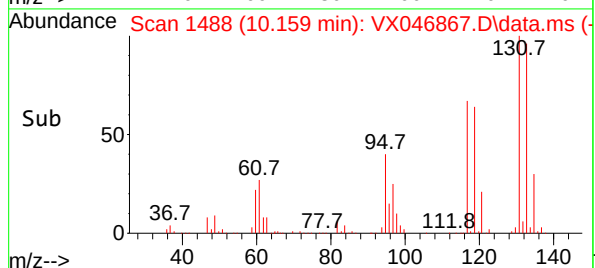
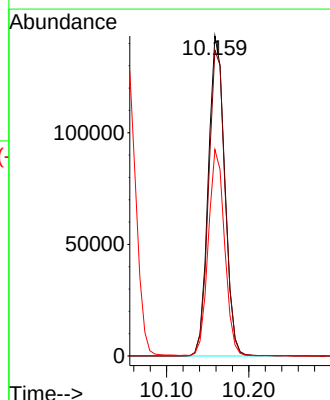
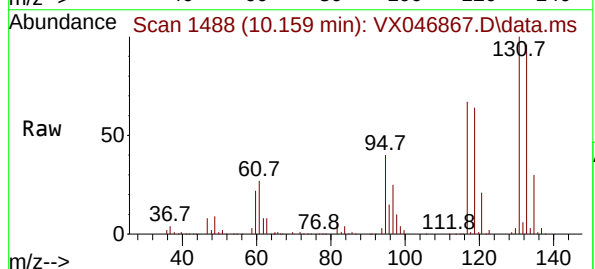
Manual Integrations
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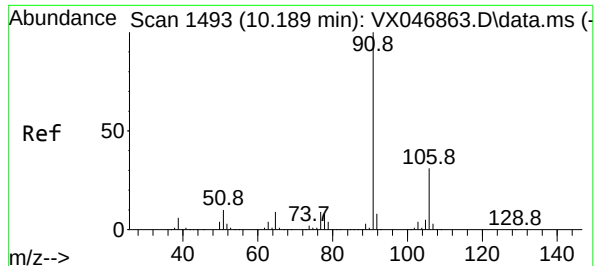
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 49.975 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Tgt Ion:131 Resp: 199525
Ion Ratio Lower Upper
131 100
133 95.9 47.6 142.9
119 63.8 32.4 97.2





#67

Ethyl Benzene

Concen: 49.829 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVVX070225

Tgt Ion: 91 Resp: 101347

Ion Ratio Lower Upper

91 100

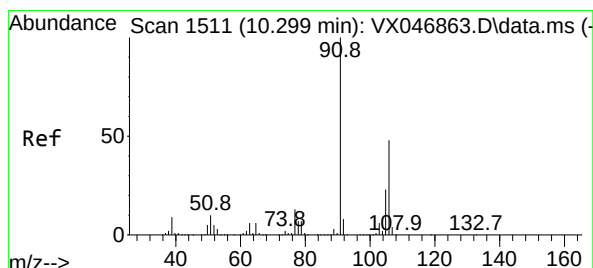
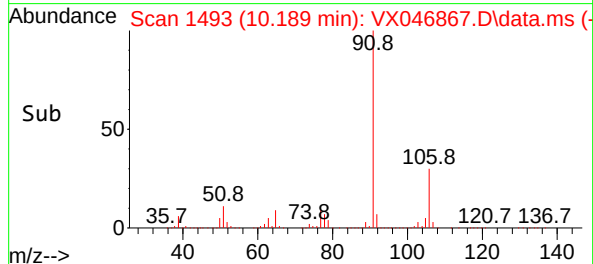
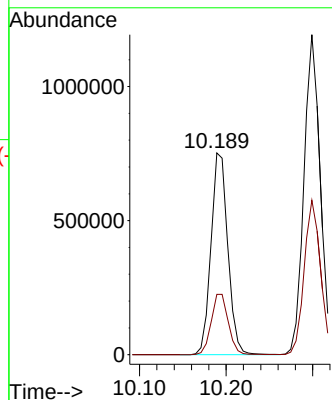
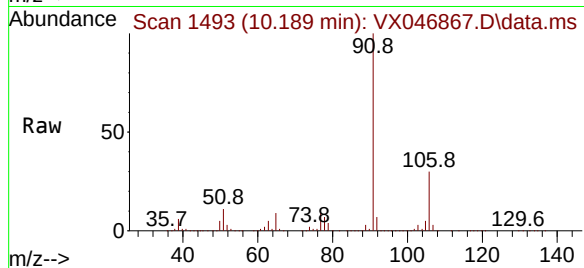
106 29.9 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#68

m/p-Xylenes

Concen: 99.238 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX046867.D

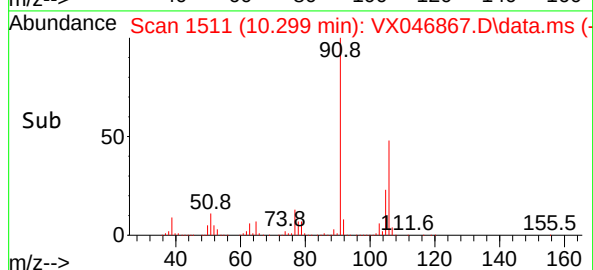
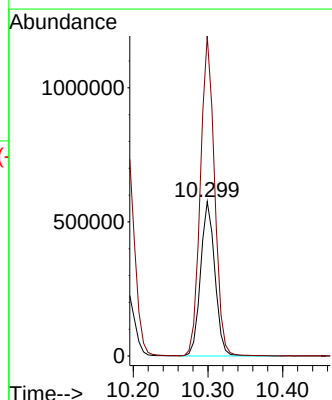
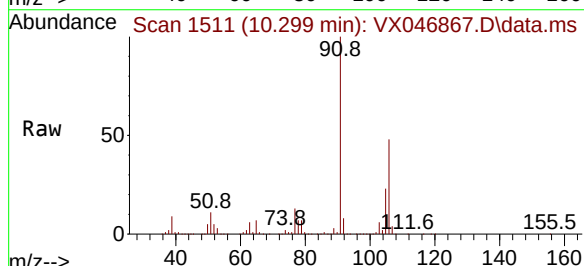
Acq: 02 Jul 2025 15:14

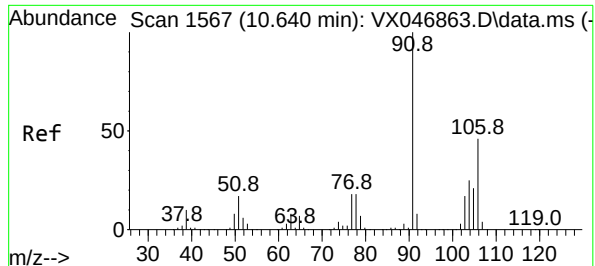
Tgt Ion:106 Resp: 760571

Ion Ratio Lower Upper

106 100

91 206.3 164.6 246.8





#69

o-Xylene

Concen: 49.809 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVVX070225

Tgt Ion:106 Resp: 36875

Ion Ratio Lower Upper

106 100

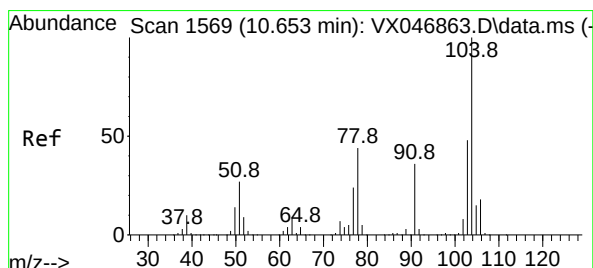
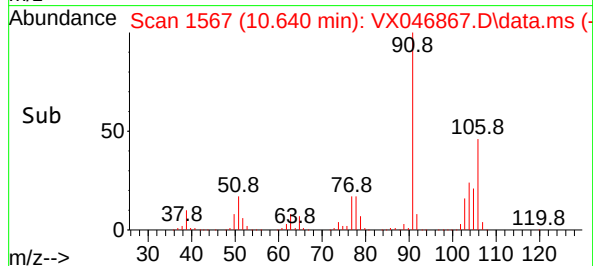
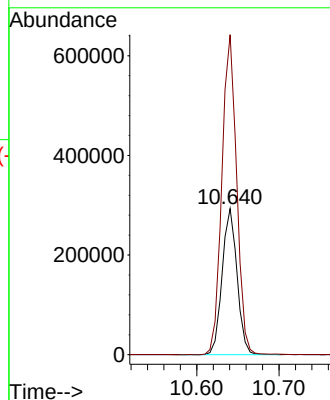
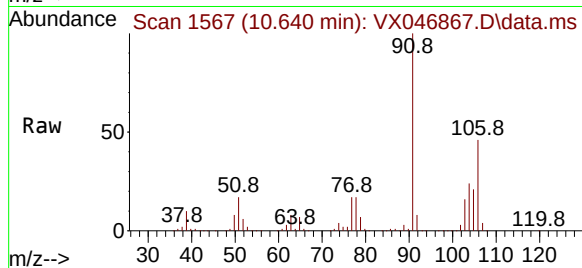
91 217.7 109.5 328.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#70

Styrene

Concen: 50.903 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

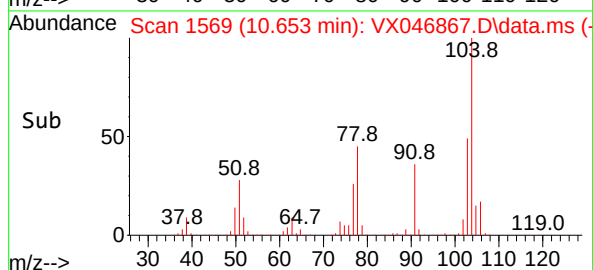
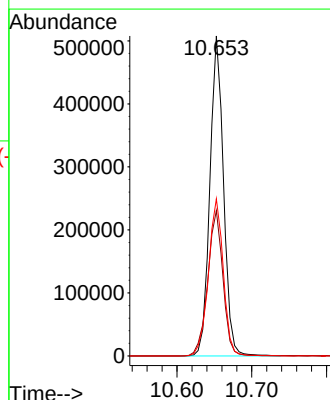
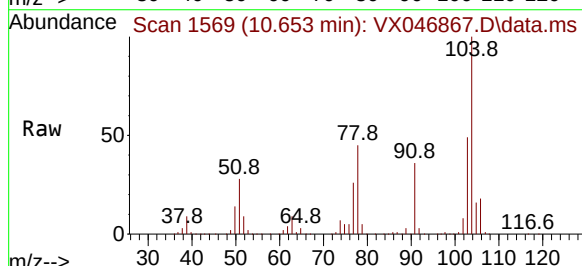
Tgt Ion:104 Resp: 644744

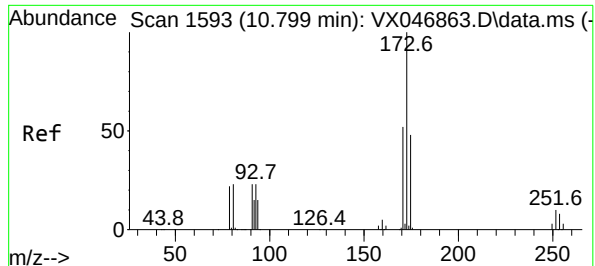
Ion Ratio Lower Upper

104 100

78 50.6 40.3 60.5

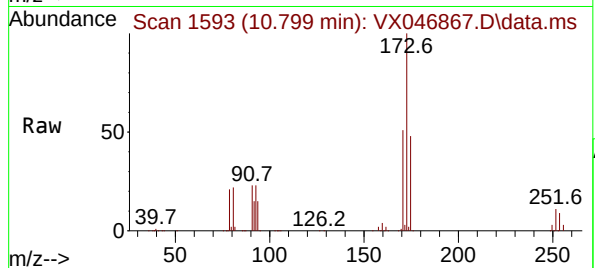
103 53.7 42.8 64.2





#71
Bromoform
Concen: 49.651 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

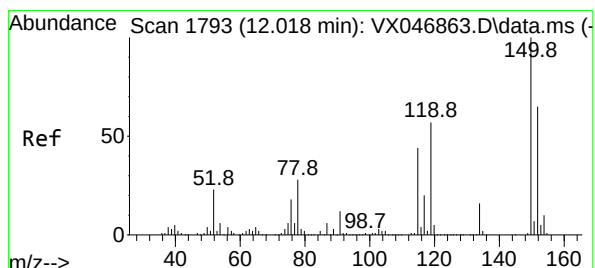
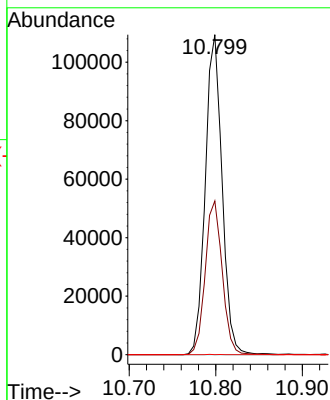
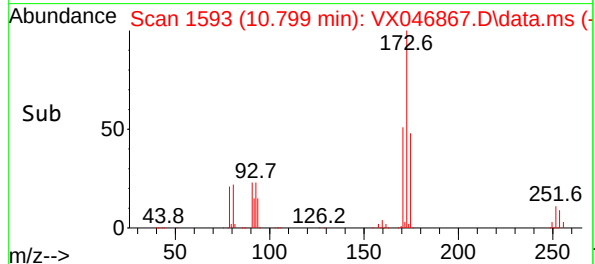
Instrument :
MSVOA_X
ClientSampleId :
ICVXX070225



Tgt Ion:173 Resp: 147395
Ion Ratio Lower Upper
173 100
175 48.7 23.8 71.5
254 0.0 0.1 0.1

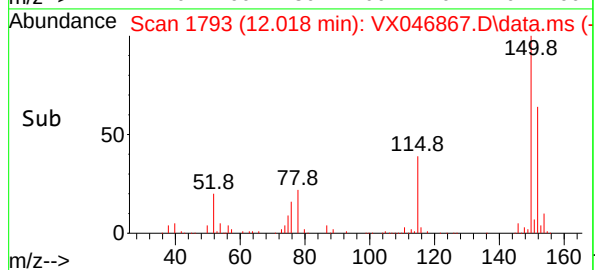
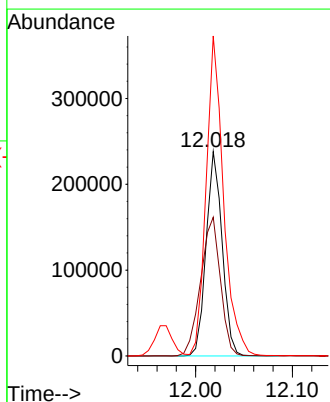
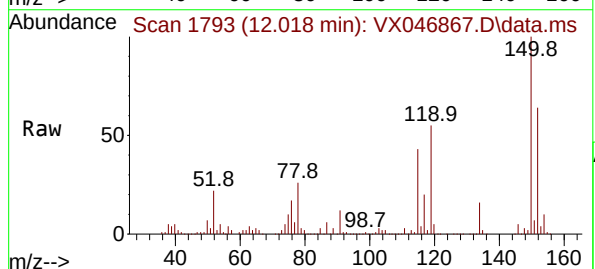
Manual Integrations
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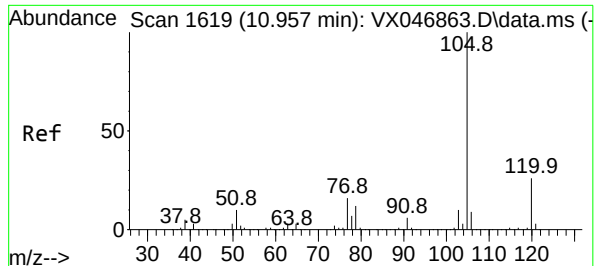
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Tgt Ion:152 Resp: 275295
Ion Ratio Lower Upper
152 100
115 83.8 42.4 127.1
150 169.5 0.0 349.2





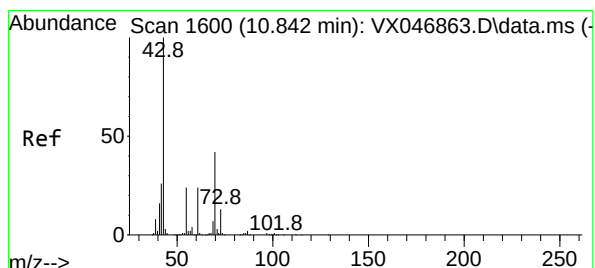
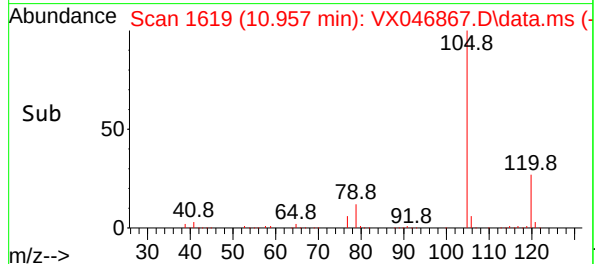
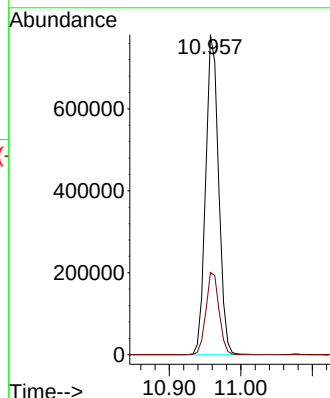
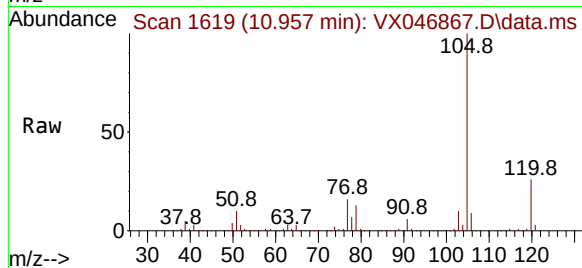
#73
Isopropylbenzene
Concen: 50.742 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Tgt Ion:105 Resp: 98199
Ion Ratio Lower Upper
105 100
120 26.1 13.2 39.5

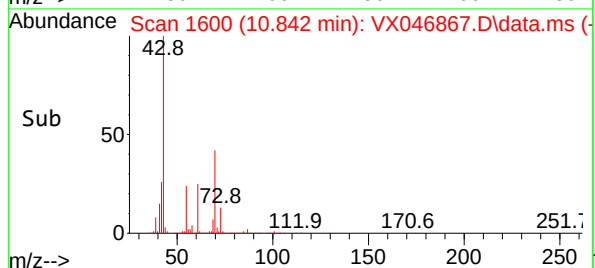
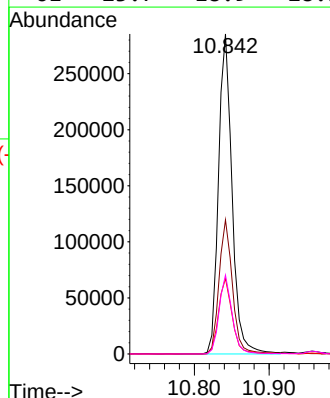
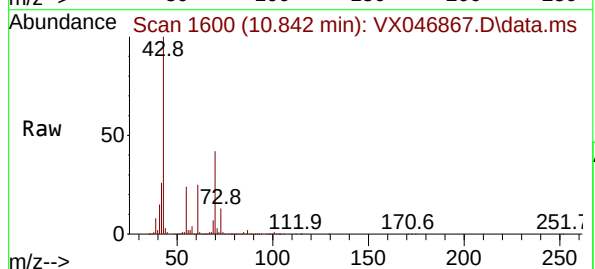
Manual Integrations
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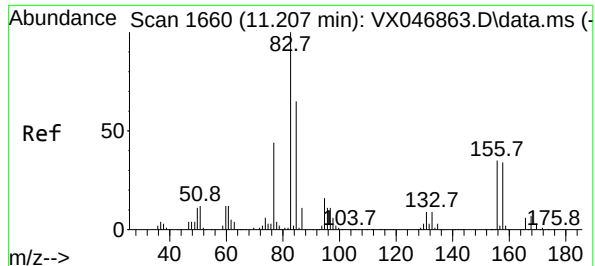
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#74
N-ethyl acetate
Concen: 54.674 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Tgt Ion: 43 Resp: 359547
Ion Ratio Lower Upper
43 100
70 41.7 33.4 50.2
55 24.0 19.6 29.4
61 23.7 18.9 28.3





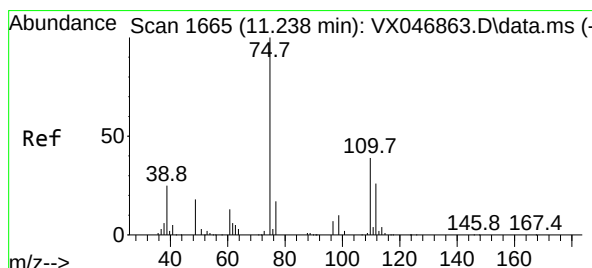
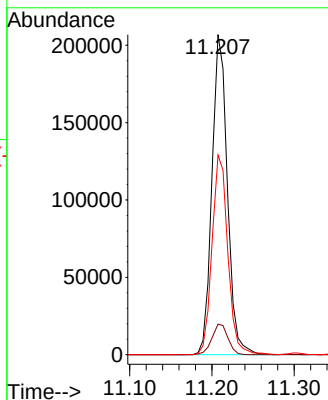
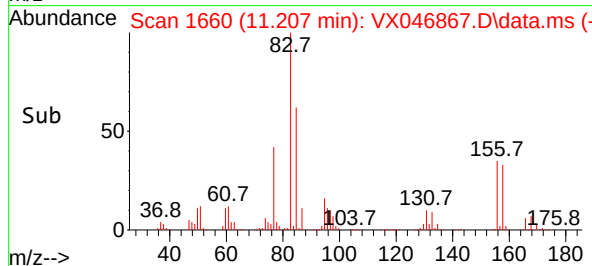
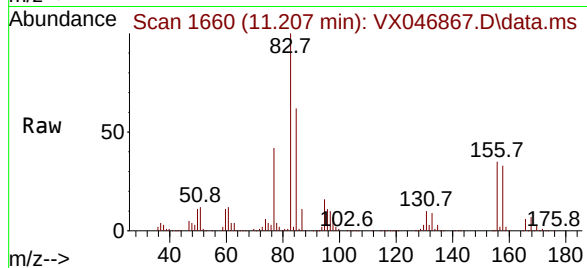
#75
1,1,2,2-Tetrachloroethane
Concen: 50.612 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Instrument :
MSVOA_X
Client Sample Id :
ICVVX070225

Tgt Ion: 83 Resp: 26932
Ion Ratio Lower Upper
83 100
131 9.9 5.0 14.9
85 63.9 32.1 96.5

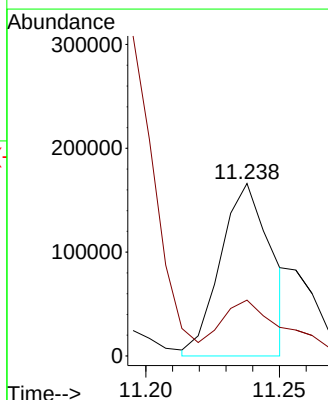
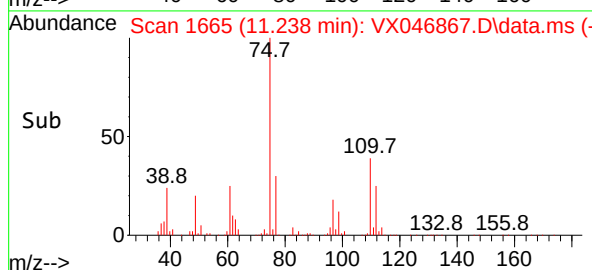
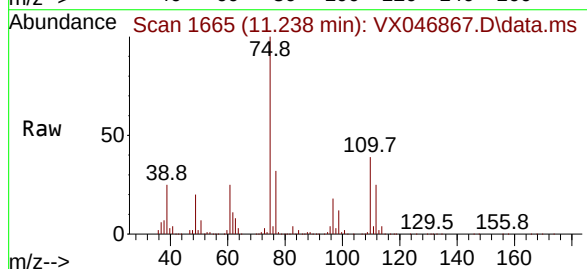
Manual Integrations
APPROVED

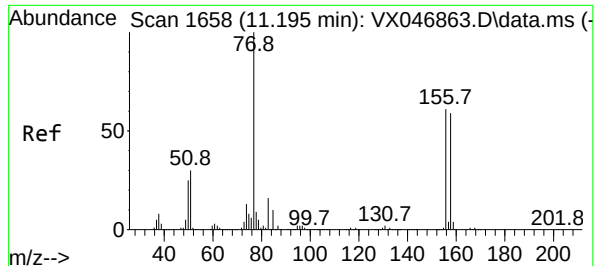
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#76
1,2,3-Trichloropropane
Concen: 51.422 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

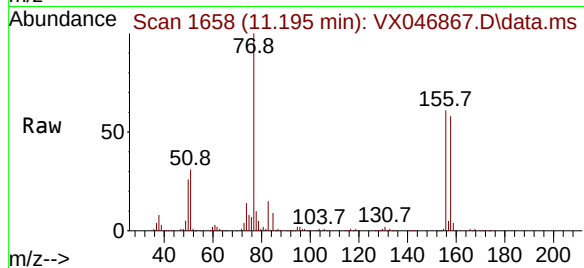
Tgt Ion: 75 Resp: 218733
Ion Ratio Lower Upper
75 100
77 41.4 20.6 61.8





#77
Bromobenzene
Concen: 49.363 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

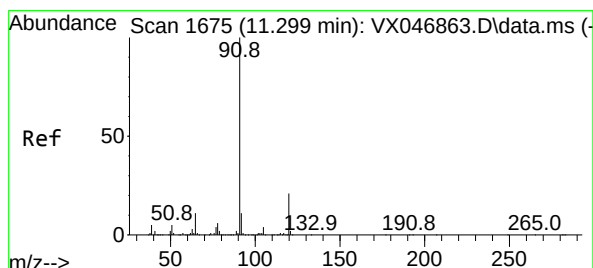
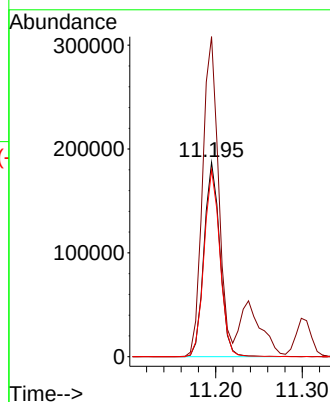
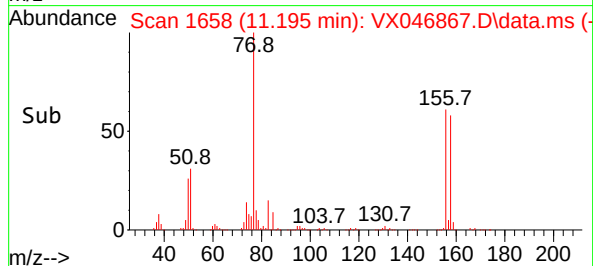
Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225



Tgt Ion: 156 Resp: 237950
Ion Ratio Lower Upper
156 100
77 165.9 82.3 247.0
158 96.5 47.5 142.6

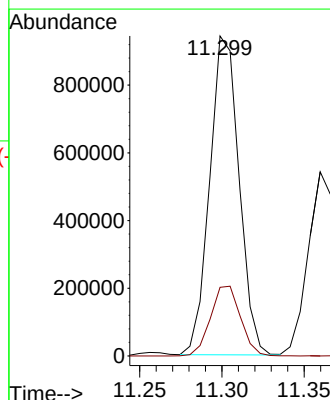
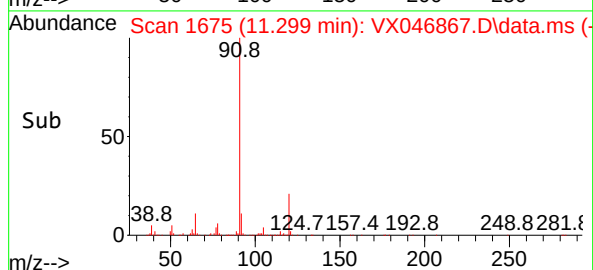
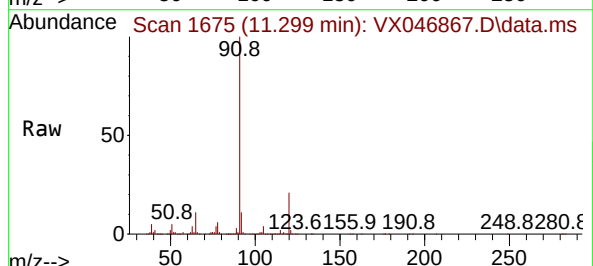
Manual Integrations
APPROVED

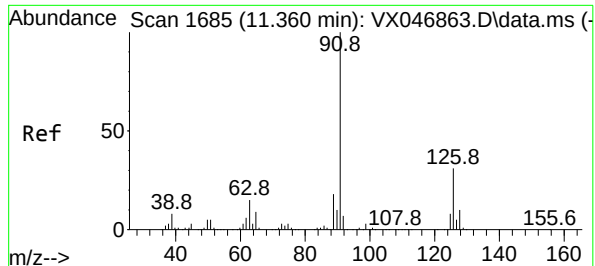
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#78
n-propylbenzene
Concen: 50.231 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Tgt Ion: 91 Resp: 1172148
Ion Ratio Lower Upper
91 100
120 22.4 11.2 33.5





#79

2-Chlorotoluene

Concen: 49.268 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVVX070225

Tgt Ion: 91 Resp: 67884

Ion Ratio Lower Upper

91 100

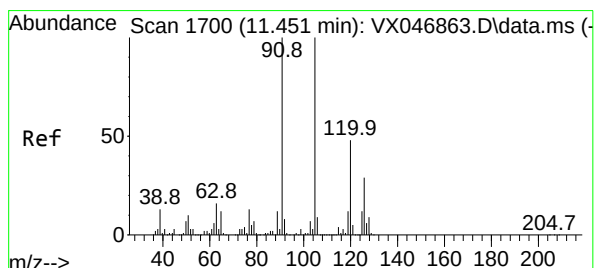
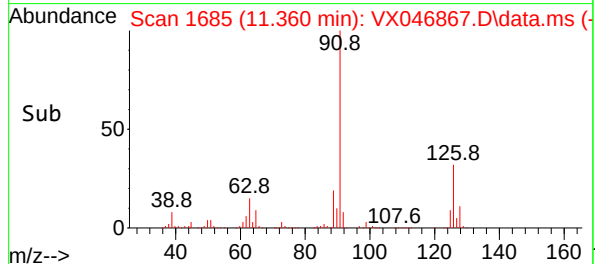
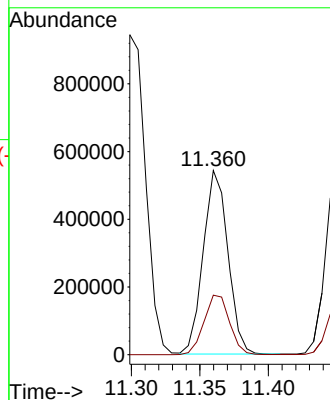
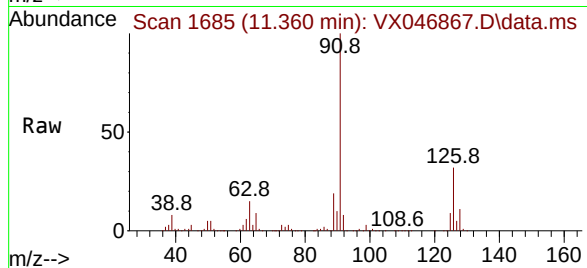
126 33.6 16.6 49.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#80

1,3,5-Trimethylbenzene

Concen: 51.418 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046867.D

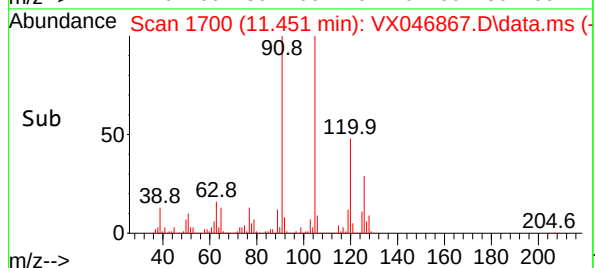
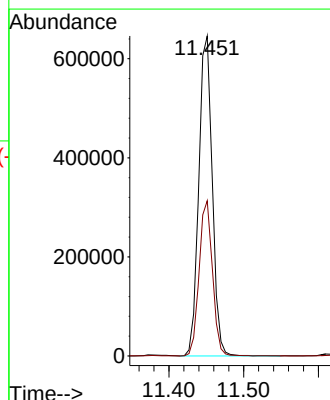
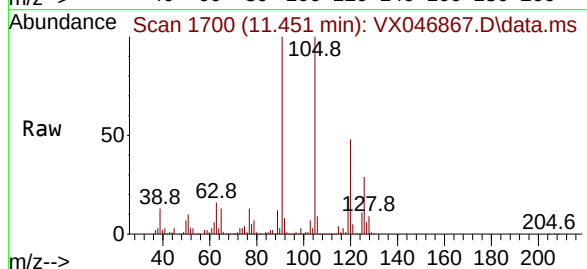
Acq: 02 Jul 2025 15:14

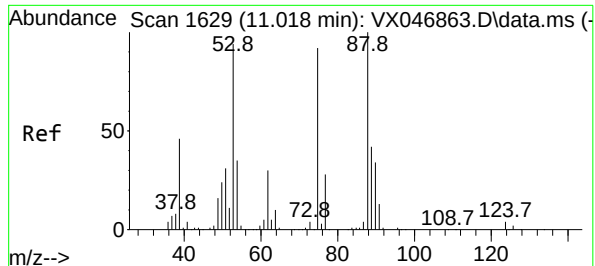
Tgt Ion:105 Resp: 808534

Ion Ratio Lower Upper

105 100

120 47.9 24.1 72.4





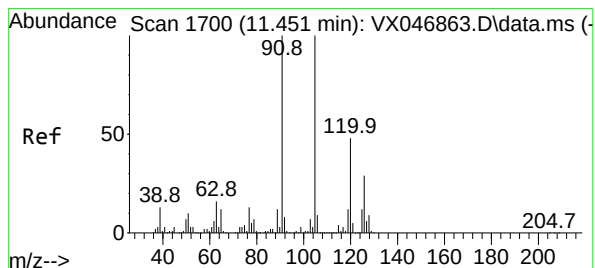
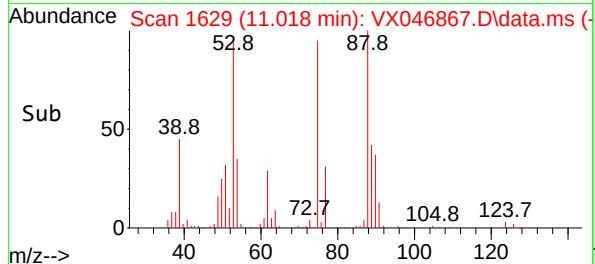
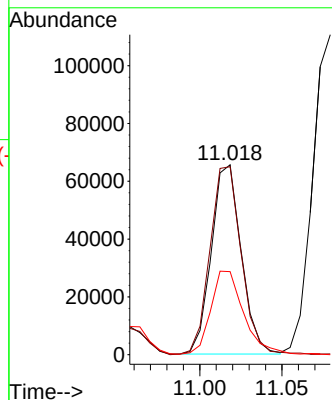
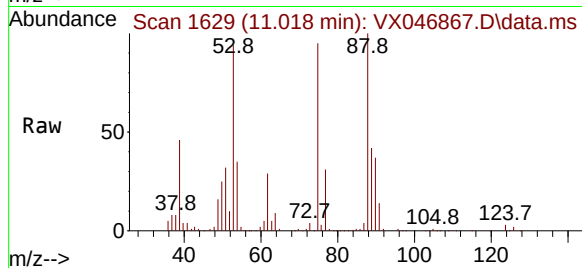
#81
trans-1,4-Dichloro-2-butene
Concen: 52.240 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Tgt Ion: 75 Resp: 8280
Ion Ratio Lower Upper
75 100
53 104.5 83.7 125.5
89 49.1 38.2 57.2

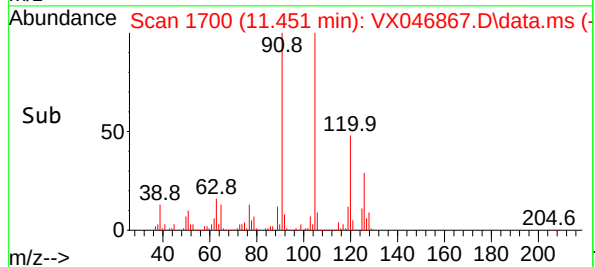
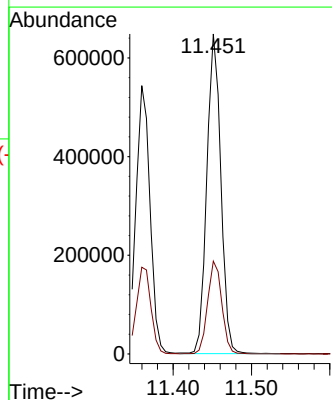
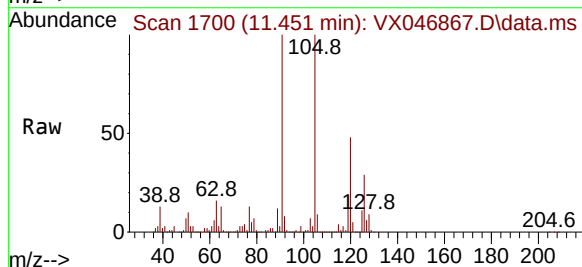
Manual Integrations
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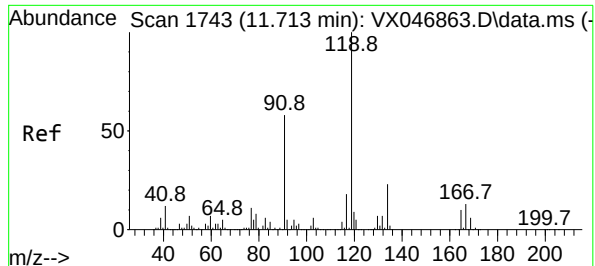
Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#82
4-Chlorotoluene
Concen: 50.483 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Tgt Ion: 91 Resp: 802710
Ion Ratio Lower Upper
91 100
126 29.2 14.6 44.0





#83

tert-Butylbenzene

Concen: 50.916 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVVX070225

Tgt Ion:119 Resp: 826920

Ion Ratio Lower Upper

119 100

91 57.3 28.7 86.3

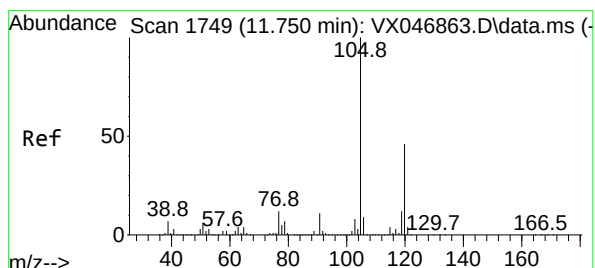
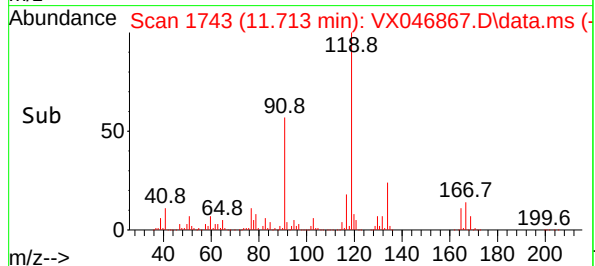
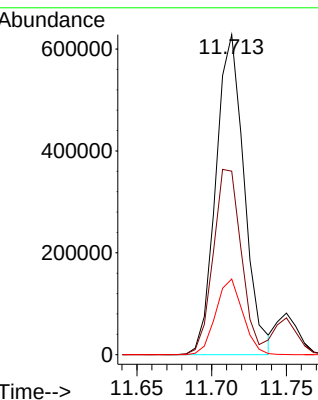
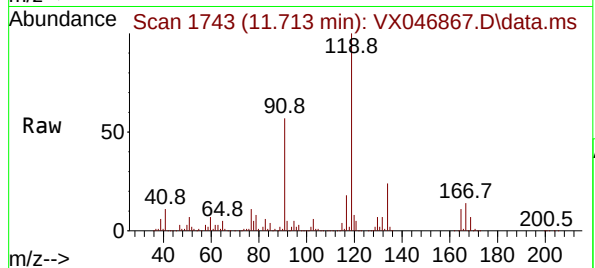
134 22.6 11.4 34.2

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Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#84

1,2,4-Trimethylbenzene

Concen: 50.428 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX046867.D

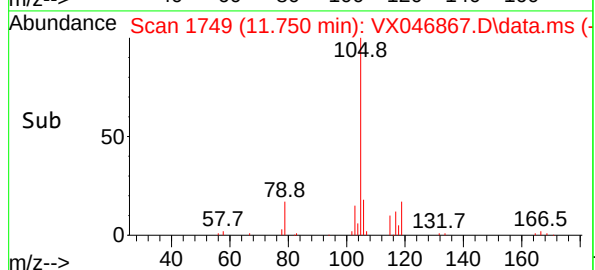
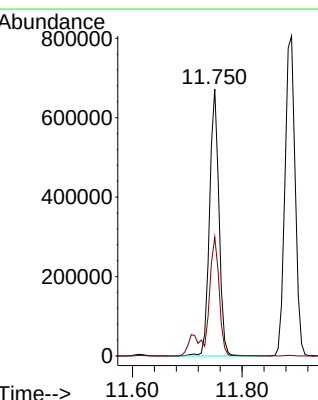
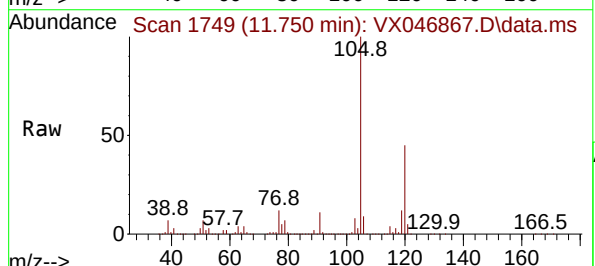
Acq: 02 Jul 2025 15:14

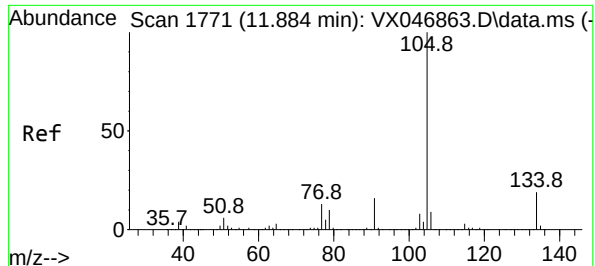
Tgt Ion:105 Resp: 801503

Ion Ratio Lower Upper

105 100

120 46.6 23.3 69.8





#85

sec-Butylbenzene

Concen: 50.429 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.006 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVVX070225

Tgt Ion:105 Resp: 1032620

Ion Ratio Lower Upper

105 100

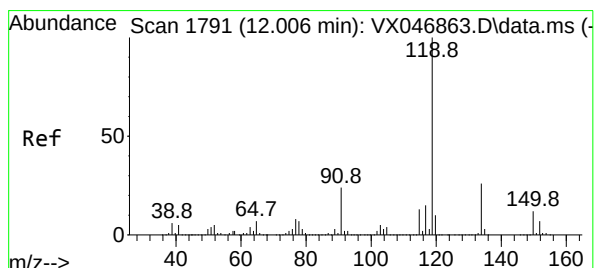
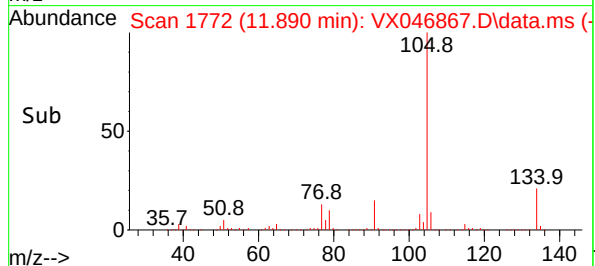
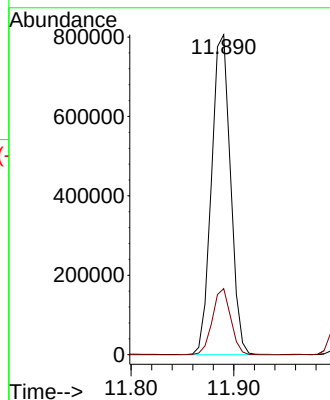
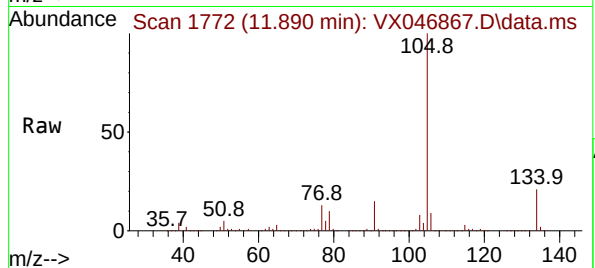
134 19.9 9.9 29.7

Manual Integrations

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Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#86

p-Isopropyltoluene

Concen: 50.577 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

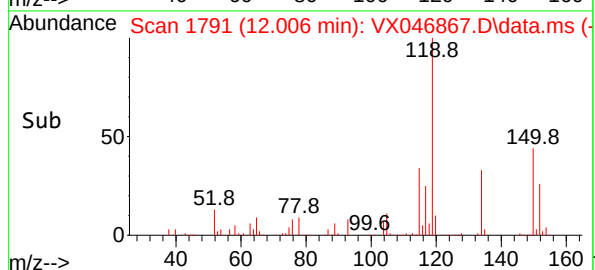
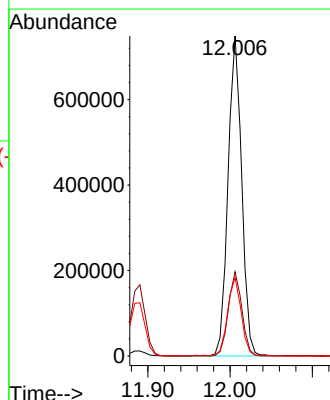
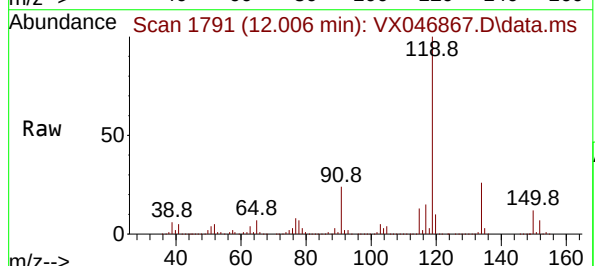
Tgt Ion:119 Resp: 867283

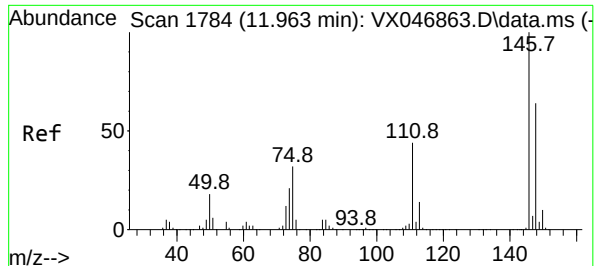
Ion Ratio Lower Upper

119 100

134 26.1 13.0 39.0

91 24.3 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 49.558 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.006 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVX070225

Tgt Ion:146 Resp: 446770

Ion Ratio Lower Upper

146 100

111 41.6 20.5 61.6

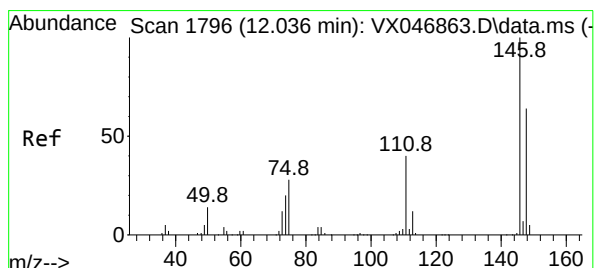
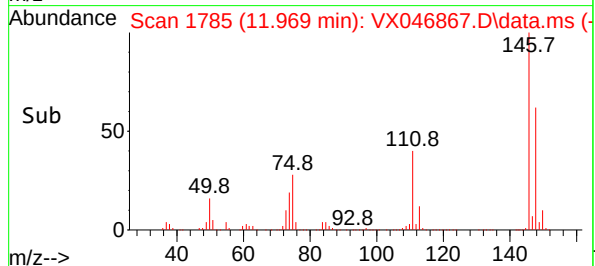
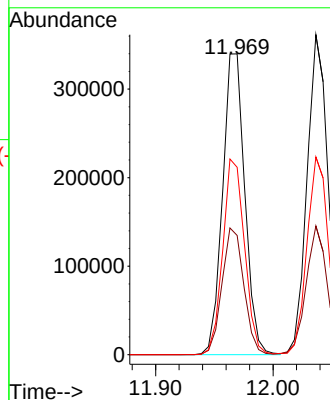
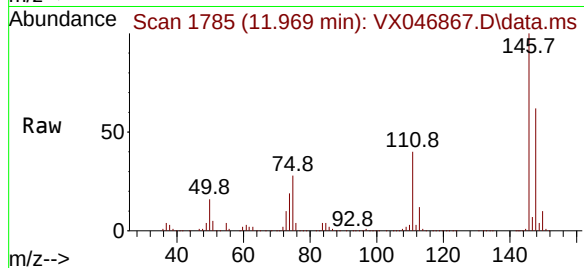
148 63.7 31.4 94.2

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Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#88

1,4-Dichlorobenzene

Concen: 47.821 ug/l

RT: 12.037 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

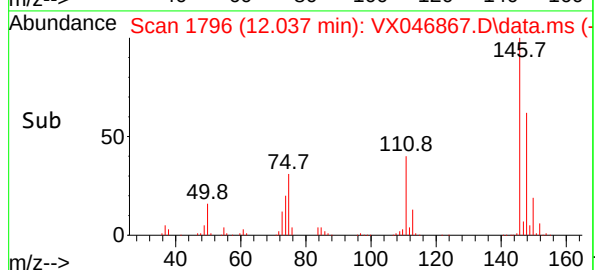
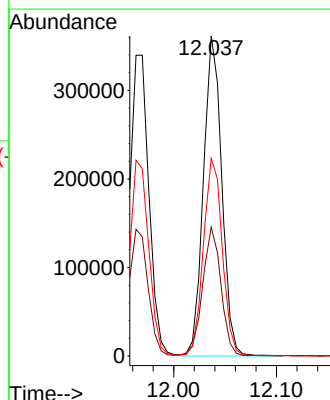
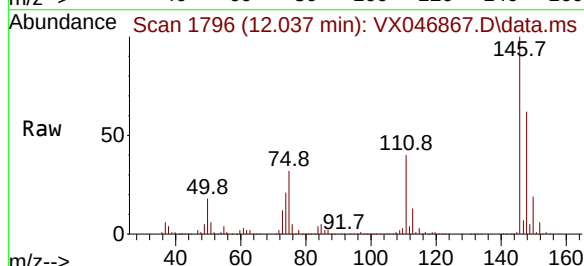
Tgt Ion:146 Resp: 448682

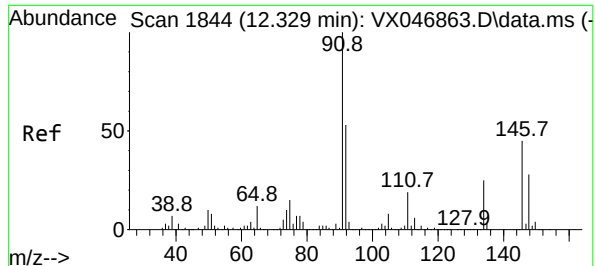
Ion Ratio Lower Upper

146 100

111 40.2 20.2 60.5

148 63.7 32.4 97.0





#89

n-Butylbenzene

Concen: 50.753 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

ICVXX070225

Tgt Ion: 91 Resp: 817740

Ion Ratio Lower Upper

91 100

92 54.5 27.0 81.0

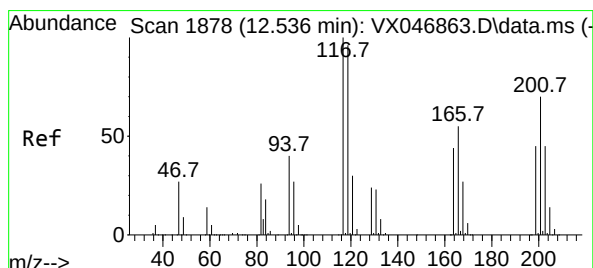
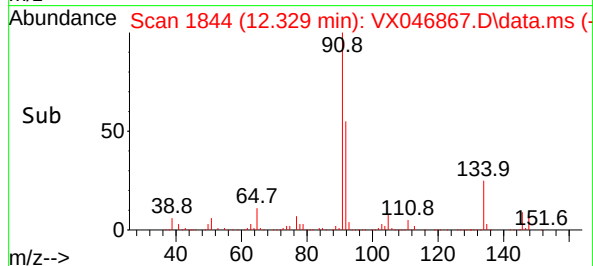
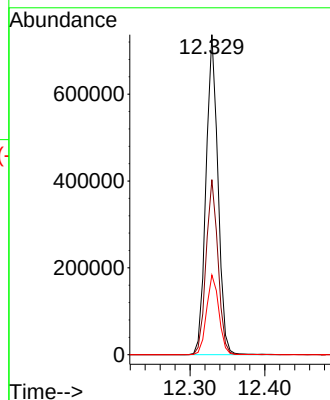
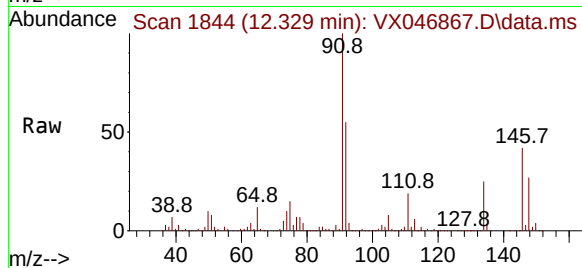
134 25.6 12.8 38.4

Manual Integrations

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Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#90

Hexachloroethane

Concen: 49.965 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046867.D

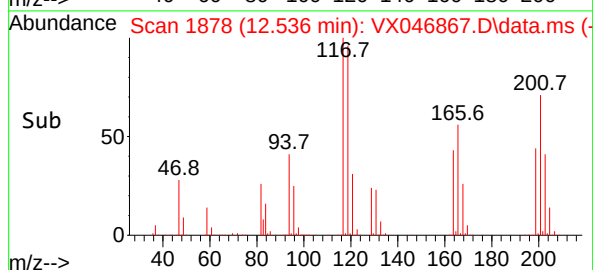
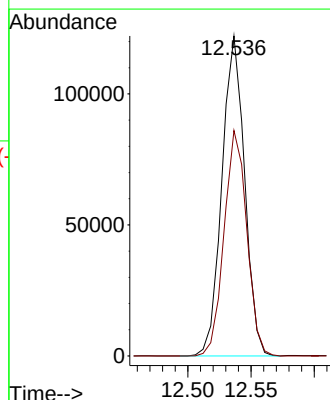
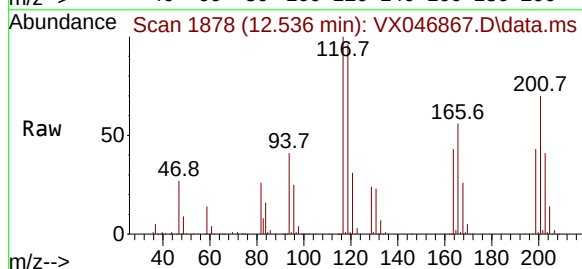
Acq: 02 Jul 2025 15:14

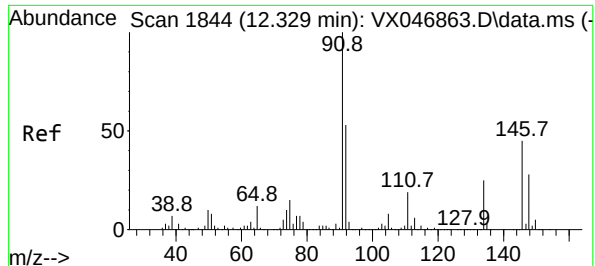
Tgt Ion:117 Resp: 151888

Ion Ratio Lower Upper

117 100

201 70.7 35.8 107.4





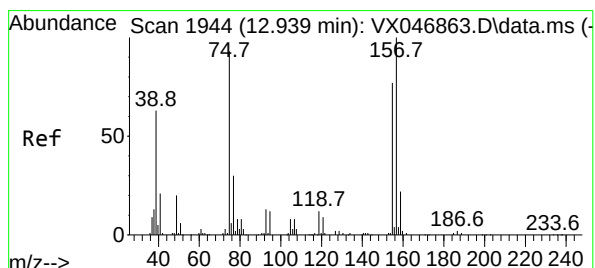
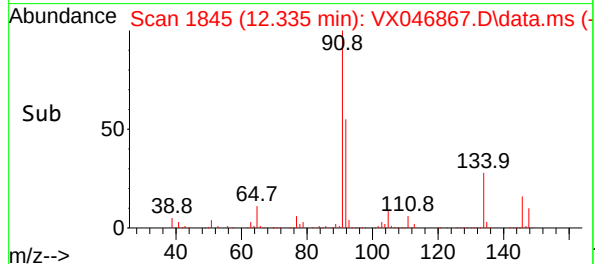
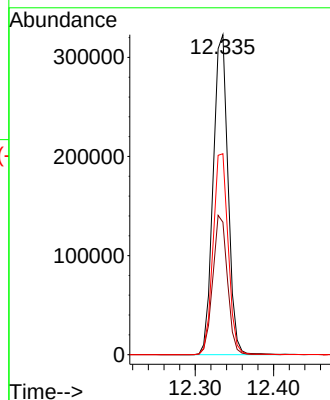
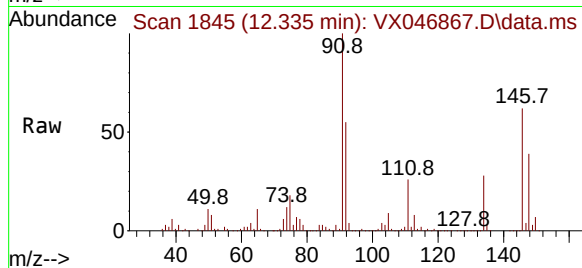
#91
1,2-Dichlorobenzene
Concen: 48.553 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Instrument :
MSVOA_X
Client Sample Id :
ICVVX070225

Tgt Ion: 146 Resp: 424172
Ion Ratio Lower Upper
146 100
111 43.1 21.1 63.1
148 63.9 31.6 95.0

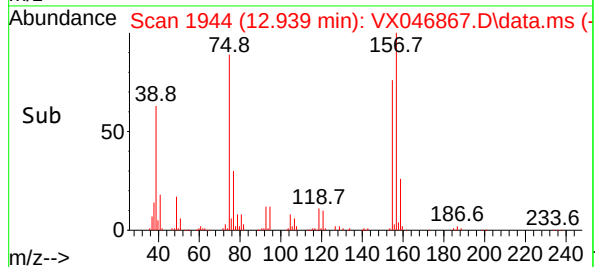
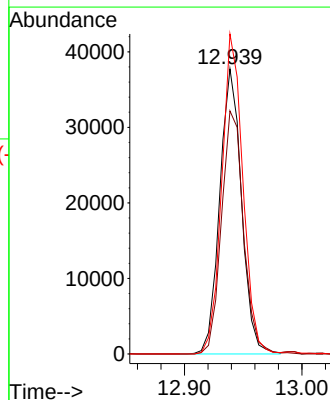
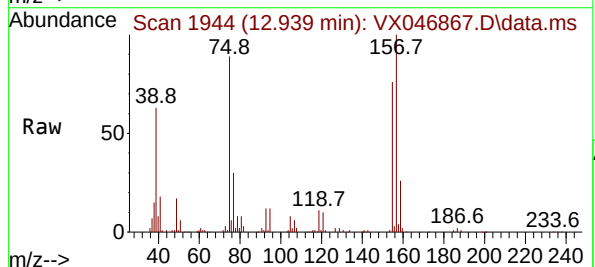
Manual Integrations
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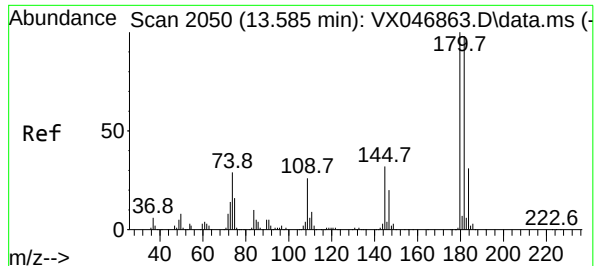
Reviewed By : John Carlone 07/03/2025
Supervised By : Mahesh Dadoda 07/03/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 52.171 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Tgt Ion: 75 Resp: 48557
Ion Ratio Lower Upper
75 100
155 86.2 43.1 129.4
157 109.1 56.5 169.5





#93

1,2,4-Trichlorobenzene

Concen: 50.729 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

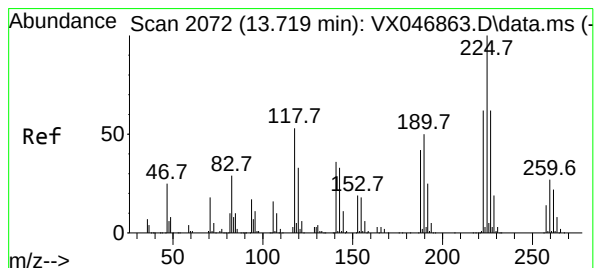
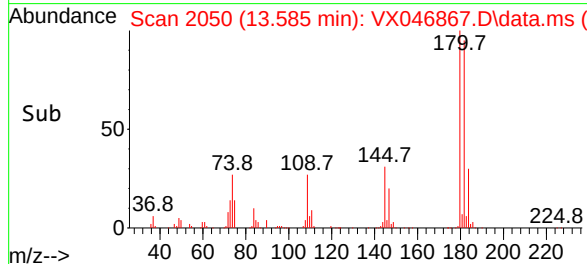
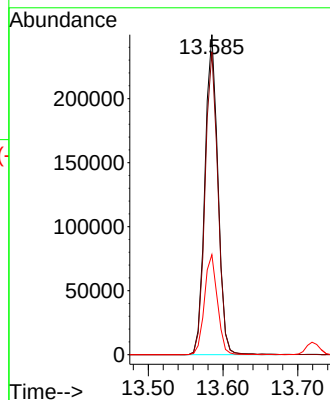
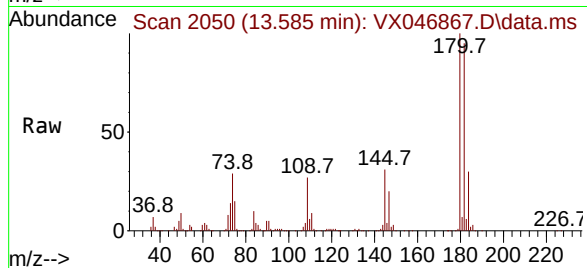
ICVVX070225

Tgt Ion:	180	Resp:	30108
Ion Ratio	Lower	Upper	
180	100		
182	94.2	47.3	141.9
145	31.3	16.1	48.2

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Reviewed By :John Carlone 07/03/2025

Supervised By :Mahesh Dadoda 07/03/2025



#94

Hexachlorobutadiene

Concen: 52.667 ug/l

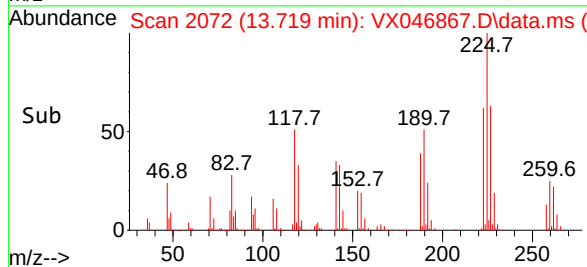
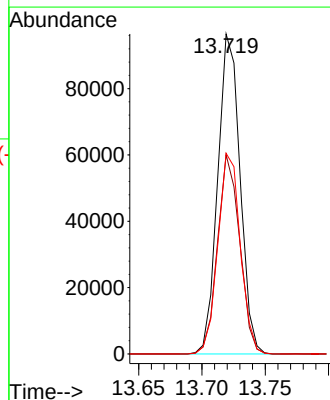
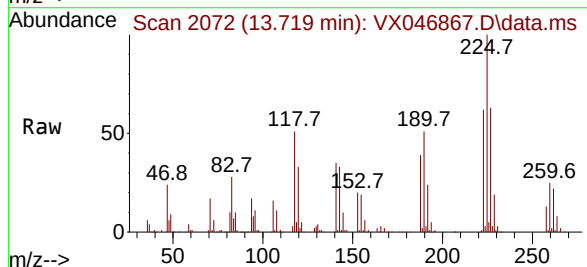
RT: 13.719 min Scan# 2072

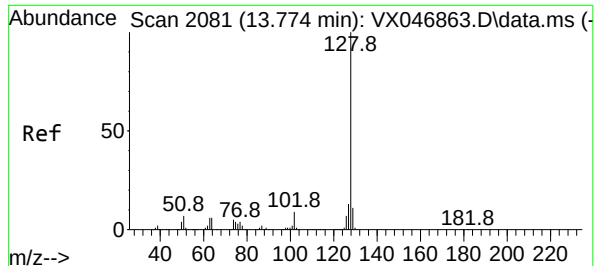
Delta R.T. 0.000 min

Lab File: VX046867.D

Acq: 02 Jul 2025 15:14

Tgt Ion:	225	Resp:	117882
Ion Ratio	Lower	Upper	
225	100		
223	61.9	31.6	94.7
227	63.2	31.6	94.7





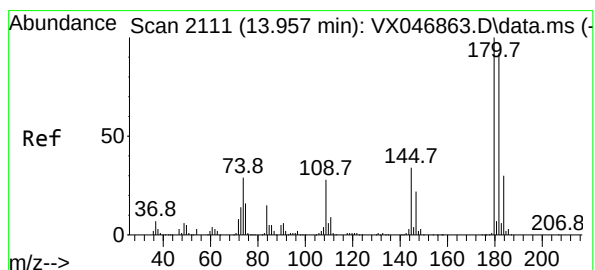
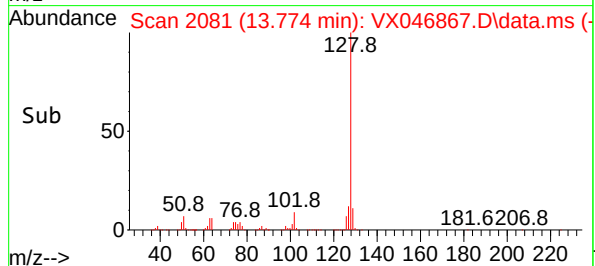
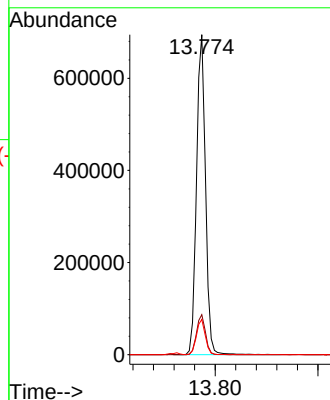
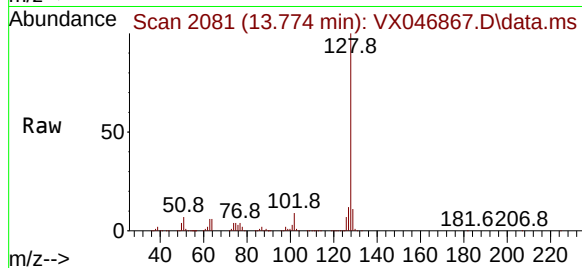
#95
Naphthalene
Concen: 54.014 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Tgt Ion:128 Resp: 84474
Ion Ratio Lower Upper
128 100
127 12.5 10.2 15.4
129 10.8 8.6 13.0

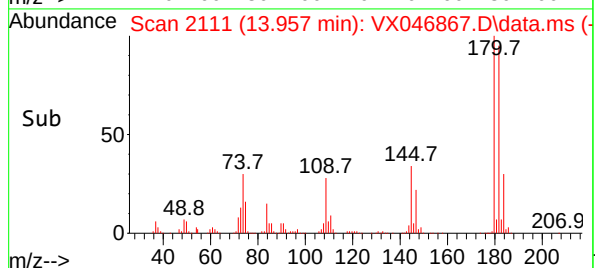
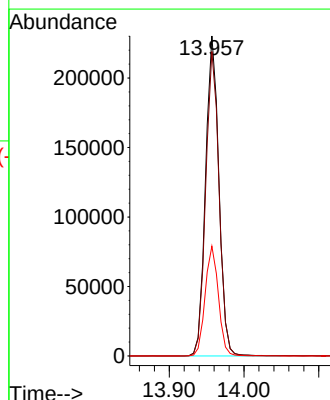
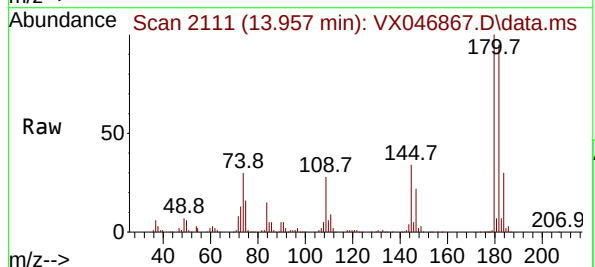
Manual Integrations
APPROVED

Reviewed By :John Carlone 07/03/2025
Supervised By :Mahesh Dadoda 07/03/2025



#96
1,2,3-Trichlorobenzene
Concen: 50.881 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046867.D
Acq: 02 Jul 2025 15:14

Tgt Ion:180 Resp: 285334
Ion Ratio Lower Upper
180 100
182 95.2 46.7 140.1
145 34.1 16.8 50.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX070225\
Data File : VX046867.D
Acq On : 02 Jul 2025 15:14
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Quant Time: Jul 03 05:55:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 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	102	0.00
2 T	Dichlorodifluoromethane	0.478	0.475	0.6	100	0.00
3 P	Chloromethane	0.522	0.512	1.9	103	0.00
4 C	Vinyl Chloride	0.569	0.555	2.5#	103	0.00
5 T	Bromomethane	0.366	0.375	-2.5	107	0.00
6 T	Chloroethane	0.376	0.351	6.6	104	0.00
7 T	Trichlorofluoromethane	0.880	0.868	1.4	103	0.00
8 T	Diethyl Ether	0.313	0.311	0.6	104	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.561	0.555	1.1	103	0.00
10 T	Methyl Iodide	0.611	0.611	0.0	99	0.00
11 T	Tert butyl alcohol	0.043	0.046	-7.0	112	0.00
12 CM	1,1-Dichloroethene	0.542	0.526	3.0#	103	0.00
13 T	Acrolein	0.052	0.046	11.5	104	0.00
14 T	Allyl chloride	0.965	0.957	0.8	104	0.00
15 T	Acrylonitrile	0.250	0.256	-2.4	106	0.00
16 T	Acetone	0.205	0.200	2.4	106	0.00
17 T	Carbon Disulfide	1.422	1.332	6.3	101	0.00
18 T	Methyl Acetate	0.541	0.577	-6.7	107	0.00
19 T	Methyl tert-butyl Ether	1.531	1.598	-4.4	107	0.00
20 T	Methylene Chloride	0.607	0.596	1.8	104	0.00
21 T	trans-1,2-Dichloroethene	0.555	0.547	1.4	103	0.00
22 T	Diisopropyl ether	1.865	1.923	-3.1	103	0.00
23 T	Vinyl Acetate	1.397	1.476	-5.7	106	0.00
24 P	1,1-Dichloroethane	1.064	1.052	1.1	103	0.00
25 T	2-Butanone	0.274	0.286	-4.4	106	0.00
26 T	2,2-Dichloropropane	0.792	0.781	1.4	105	0.00
27 T	cis-1,2-Dichloroethene	0.677	0.659	2.7	102	0.00
28 T	Bromochloromethane	0.525	0.527	-0.4	102	0.00
29 T	Tetrahydrofuran	0.175	0.187	-6.9	109	0.00
30 C	Chloroform	1.087	1.051	3.3#	102	0.00
31 T	Cyclohexane	0.944	0.932	1.3	104	0.00
32 T	1,1,1-Trichloroethane	0.908	0.891	1.9	103	0.00
33 S	1,2-Dichloroethane-d4	0.661	0.645	2.4	102	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
35 S	Dibromofluoromethane	0.339	0.342	-0.9	102	0.00
36 T	1,1-Dichloropropene	0.458	0.451	1.5	104	0.00
37 T	Ethyl Acetate	0.390	0.376	3.6	106	0.00
38 T	Carbon Tetrachloride	0.484	0.478	1.2	102	0.00
39 T	Methylcyclohexane	0.573	0.581	-1.4	104	0.00
40 TM	Benzene	1.385	1.368	1.2	102	0.00
41 T	Methacrylonitrile	0.208	0.226	-8.7	108	0.00
42 TM	1,2-Dichloroethane	0.470	0.462	1.7	102	0.00
43 T	Isopropyl Acetate	0.597	0.640	-7.2	105	0.00
44 TM	Trichloroethene	0.361	0.348	3.6	103	0.00
45 C	1,2-Dichloropropane	0.350	0.349	0.3#	103	0.00
46 T	Dibromomethane	0.242	0.240	0.8	102	0.00
47 T	Bromodichloromethane	0.518	0.513	1.0	102	0.00
48 T	Methyl methacrylate	0.308	0.339	-10.1	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX070225\
Data File : VX046867.D
Acq On : 02 Jul 2025 15:14
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Quant Time: Jul 03 05:55:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 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	108	0.00
50 S	Toluene-d8	1.197	1.199	-0.2	102	0.00
51 T	4-Methyl-2-Pentanone	0.353	0.381	-7.9	106	0.00
52 CM	Toluene	0.858	0.859	-0.1#	104	0.00
53 T	t-1,3-Dichloropropene	0.462	0.489	-5.8	105	0.00
54 T	cis-1,3-Dichloropropene	0.527	0.549	-4.2	104	0.00
55 T	1,1,2-Trichloroethane	0.320	0.319	0.3	102	0.00
56 T	Ethyl methacrylate	0.442	0.482	-9.0	107	0.00
57 T	1,3-Dichloropropane	0.550	0.547	0.5	103	0.00
58 T	2-Chloroethyl Vinyl ether	0.249	0.268	-7.6	102	0.00
59 T	2-Hexanone	0.234	0.260	-11.1	107	0.00
60 T	Dibromochloromethane	0.383	0.383	0.0	103	0.00
61 T	1,2-Dibromoethane	0.321	0.329	-2.5	104	0.00
62 S	4-Bromofluorobenzene	0.455	0.463	-1.8	103	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
64 T	Tetrachloroethene	0.333	0.318	4.5	103	0.00
65 PM	Chlorobenzene	1.081	1.064	1.6	103	0.00
66 T	1,1,1,2-Tetrachloroethane	0.363	0.363	0.0	103	0.00
67 C	Ethyl Benzene	1.851	1.845	0.3#	103	0.00
68 T	m/p-Xylenes	0.698	0.692	0.9	102	0.00
69 T	o-Xylene	0.674	0.671	0.4	103	0.00
70 T	Styrene	1.153	1.174	-1.8	102	0.00
71 P	Bromoform	0.270	0.268	0.7	101	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73 T	Isopropylbenzene	3.515	3.567	-1.5	102	0.00
74 T	N-amyl acetate	1.194	1.306	-9.4	106	0.00
75 P	1,1,2,2-Tetrachloroethane	0.966	0.978	-1.2	105	0.00
76 T	1,2,3-Trichloropropane	0.773	0.795	-2.8	104	0.00
77 T	Bromobenzene	0.875	0.864	1.3	102	0.00
78 T	n-propylbenzene	4.238	4.258	-0.5	102	0.00
79 T	2-Chlorotoluene	2.503	2.466	1.5	102	0.00
80 T	1,3,5-Trimethylbenzene	2.856	2.937	-2.8	104	0.00
81 T	trans-1,4-Dichloro-2-butene	0.288	0.301	-4.5	106	0.00
82 T	4-Chlorotoluene	2.888	2.916	-1.0	103	0.00
83 T	tert-Butylbenzene	2.950	3.004	-1.8	103	0.00
84 T	1,2,4-Trimethylbenzene	2.887	2.911	-0.8	102	0.00
85 T	sec-Butylbenzene	3.719	3.751	-0.9	102	0.00
86 T	p-Isopropyltoluene	3.114	3.150	-1.2	103	0.00
87 T	1,3-Dichlorobenzene	1.637	1.623	0.9	103	0.00
88 T	1,4-Dichlorobenzene	1.704	1.630	4.3	103	0.00
89 T	n-Butylbenzene	2.926	2.970	-1.5	103	0.00
90 T	Hexachloroethane	0.552	0.552	0.0	103	0.00
91 T	1,2-Dichlorobenzene	1.587	1.541	2.9	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.169	0.176	-4.1	107	0.00
93 T	1,2,4-Trichlorobenzene	1.078	1.094	-1.5	104	0.00
94 T	Hexachlorobutadiene	0.407	0.428	-5.2	108	0.00
95 T	Naphthalene	2.840	3.069	-8.1	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046867.D
Acq On : 02 Jul 2025 15:14
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Quant Time: Jul 03 05:55:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 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	1.019	1.036	-1.7	102	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX070225\
Data File : VX046867.D
Acq On : 02 Jul 2025 15:14
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Quant Time: Jul 03 05:55:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 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	102	0.00
2 T	Dichlorodifluoromethane	50.000	49.661	0.7	100	0.00
3 P	Chloromethane	50.000	48.967	2.1	103	0.00
4 C	Vinyl Chloride	50.000	48.733	2.5#	103	0.00
5 T	Bromomethane	50.000	51.285	-2.6	107	0.00
6 T	Chloroethane	50.000	46.751	6.5	104	0.00
7 T	Trichlorofluoromethane	50.000	49.325	1.3	103	0.00
8 T	Diethyl Ether	50.000	49.670	0.7	104	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	49.499	1.0	103	0.00
10 T	Methyl Iodide	50.000	50.021	-0.0	99	0.00
11 T	Tert butyl alcohol	250.000	266.531	-6.6	112	0.00
12 CM	1,1-Dichloroethene	50.000	48.521	3.0#	103	0.00
13 T	Acrolein	250.000	242.250	3.1	104	0.00
14 T	Allyl chloride	50.000	49.549	0.9	104	0.00
15 T	Acrylonitrile	250.000	255.809	-2.3	106	0.00
16 T	Acetone	250.000	243.622	2.6	106	0.00
17 T	Carbon Disulfide	50.000	46.842	6.3	101	0.00
18 T	Methyl Acetate	50.000	53.354	-6.7	107	0.00
19 T	Methyl tert-butyl Ether	50.000	52.199	-4.4	107	0.00
20 T	Methylene Chloride	50.000	49.097	1.8	104	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.334	1.3	103	0.00
22 T	Diisopropyl ether	50.000	51.568	-3.1	103	0.00
23 T	Vinyl Acetate	250.000	264.173	-5.7	106	0.00
24 P	1,1-Dichloroethane	50.000	49.449	1.1	103	0.00
25 T	2-Butanone	250.000	261.552	-4.6	106	0.00
26 T	2,2-Dichloropropane	50.000	49.351	1.3	105	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.630	2.7	102	0.00
28 T	Bromochloromethane	50.000	50.232	-0.5	102	0.00
29 T	Tetrahydrofuran	250.000	267.272	-6.9	109	0.00
30 C	Chloroform	50.000	48.348	3.3#	102	0.00
31 T	Cyclohexane	50.000	49.328	1.3	104	0.00
32 T	1,1,1-Trichloroethane	50.000	49.101	1.8	103	0.00
33 S	1,2-Dichloroethane-d4	50.000	48.819	2.4	102	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
35 S	Dibromofluoromethane	50.000	50.377	-0.8	102	0.00
36 T	1,1-Dichloropropene	50.000	49.261	1.5	104	0.00
37 T	Ethyl Acetate	50.000	48.151	3.7	106	0.00
38 T	Carbon Tetrachloride	50.000	49.327	1.3	102	0.00
39 T	Methylcyclohexane	50.000	50.747	-1.5	104	0.00
40 TM	Benzene	50.000	49.375	1.3	102	0.00
41 T	Methacrylonitrile	50.000	54.246	-8.5	108	0.00
42 TM	1,2-Dichloroethane	50.000	49.110	1.8	102	0.00
43 T	Isopropyl Acetate	50.000	53.586	-7.2	105	0.00
44 TM	Trichloroethene	50.000	48.321	3.4	103	0.00
45 C	1,2-Dichloropropane	50.000	49.920	0.2#	103	0.00
46 T	Dibromomethane	50.000	49.494	1.0	102	0.00
47 T	Bromodichloromethane	50.000	49.516	1.0	102	0.00
48 T	Methyl methacrylate	50.000	54.886	-9.8	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046867.D
Acq On : 02 Jul 2025 15:14
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Quant Time: Jul 03 05:55:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 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	1081.463	-8.1	108	0.00
50 S	Toluene-d8	50.000	50.047	-0.1	102	0.00
51 T	4-Methyl-2-Pentanone	250.000	270.137	-8.1	106	0.00
52 CM	Toluene	50.000	50.028	-0.1#	104	0.00
53 T	t-1,3-Dichloropropene	50.000	52.871	-5.7	105	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.010	-4.0	104	0.00
55 T	1,1,2-Trichloroethane	50.000	49.876	0.2	102	0.00
56 T	Ethyl methacrylate	50.000	54.511	-9.0	107	0.00
57 T	1,3-Dichloropropane	50.000	49.728	0.5	103	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	268.488	-7.4	102	0.00
59 T	2-Hexanone	250.000	277.453	-11.0	107	0.00
60 T	Dibromochloromethane	50.000	50.089	-0.2	103	0.00
61 T	1,2-Dibromoethane	50.000	51.219	-2.4	104	0.00
62 S	4-Bromofluorobenzene	50.000	50.818	-1.6	103	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	102	0.00
64 T	Tetrachloroethene	50.000	47.773	4.5	103	0.00
65 PM	Chlorobenzene	50.000	49.208	1.6	103	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	49.975	0.0	103	0.00
67 C	Ethyl Benzene	50.000	49.829	0.3#	103	0.00
68 T	m/p-Xylenes	100.000	99.238	0.8	102	0.00
69 T	o-Xylene	50.000	49.809	0.4	103	0.00
70 T	Styrene	50.000	50.903	-1.8	102	0.00
71 P	Bromoform	50.000	49.651	0.7	101	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73 T	Isopropylbenzene	50.000	50.742	-1.5	102	0.00
74 T	N-amyl acetate	50.000	54.674	-9.3	106	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	50.612	-1.2	105	0.00
76 T	1,2,3-Trichloropropane	50.000	51.422	-2.8	104	0.00
77 T	Bromobenzene	50.000	49.363	1.3	102	0.00
78 T	n-propylbenzene	50.000	50.231	-0.5	102	0.00
79 T	2-Chlorotoluene	50.000	49.268	1.5	102	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.418	-2.8	104	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.240	-4.5	106	0.00
82 T	4-Chlorotoluene	50.000	50.483	-1.0	103	0.00
83 T	tert-Butylbenzene	50.000	50.916	-1.8	103	0.00
84 T	1,2,4-Trimethylbenzene	50.000	50.428	-0.9	102	0.00
85 T	sec-Butylbenzene	50.000	50.429	-0.9	102	0.00
86 T	p-Isopropyltoluene	50.000	50.577	-1.2	103	0.00
87 T	1,3-Dichlorobenzene	50.000	49.558	0.9	103	0.00
88 T	1,4-Dichlorobenzene	50.000	47.821	4.4	103	0.00
89 T	n-Butylbenzene	50.000	50.753	-1.5	103	0.00
90 T	Hexachloroethane	50.000	49.965	0.1	103	0.00
91 T	1,2-Dichlorobenzene	50.000	48.553	2.9	101	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	52.171	-4.3	107	0.00
93 T	1,2,4-Trichlorobenzene	50.000	50.729	-1.5	104	0.00
94 T	Hexachlorobutadiene	50.000	52.667	-5.3	108	0.00
95 T	Naphthalene	50.000	54.014	-8.0	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046867.D
Acq On : 02 Jul 2025 15:14
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX070225

Quant Time: Jul 03 05:55:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 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	50.881	-1.8	102	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>PARS02</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2592</u>
Instrument ID:	<u>MSVOA_X</u>	Calibration Date/Time:	<u>07/16/2025 09:26</u>
Lab File ID:	<u>VX047016.D</u>	Init. Calib. Date(s):	<u>07/02/2025 07/02/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:11 14:31</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.569	0.550		-3.34	20
1,1-Dichloroethene	0.542	0.535		-1.29	20
2-Butanone	0.274	0.363		32.48	20
Carbon Tetrachloride	0.484	0.468		-3.31	20
Chloroform	1.087	1.131		4.05	20
Benzene	1.385	1.335		-3.61	20
1,2-Dichloroethane	0.470	0.485		3.19	20
Trichloroethene	0.361	0.334		-7.48	20
Tetrachloroethene	0.333	0.298		-10.51	20
Chlorobenzene	1.081	1.054	0.3	-2.5	20
1,2-Dichloroethane-d4	0.661	0.692		4.69	20
Dibromofluoromethane	0.339	0.335		-1.18	20
Toluene-d8	1.197	1.120		-6.43	20
4-Bromofluorobenzene	0.455	0.448		-1.54	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\VX071625\
 Data File : VX047016.D
 Acq On : 16 Jul 2025 09:26
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Quant Time: Jul 17 03:26:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
 Supervised By :Semsettin Yesilyurt 07/17/2025

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	329194	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	557691	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	489553	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	242580	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.958	65	227784	52.377	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 104.760%	
35) Dibromofluoromethane	5.391	113	186872	49.364	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 98.720%	
50) Toluene-d8	8.647	98	624373	46.747	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 93.500%	
62) 4-Bromofluorobenzene	11.079	95	249828	49.215	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 98.440%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.179	85	150869	47.921	ug/l	98
3) Chloromethane	1.307	50	160931	46.787	ug/l	97
4) Vinyl Chloride	1.386	62	181170	48.367	ug/l	98
5) Bromomethane	1.618	94	108692	45.161	ug/l	98
6) Chloroethane	1.697	64	119884	48.469	ug/l	97
7) Trichlorofluoromethane	1.904	101	295330	50.991	ug/l	99
8) Diethyl Ether	2.148	74	112682	54.670	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.343	101	189580	51.369	ug/l	100
10) Methyl Iodide	2.465	142	172862	42.993	ug/l	95
11) Tert butyl alcohol	2.959	59	110234	386.477	ug/l	99
12) 1,1-Dichloroethene	2.331	96	176000	49.305	ug/l	95
13) Acrolein	2.245	56	84732	268.622	ug/l	98
14) Allyl chloride	2.678	41	336939	53.017	ug/l	99
15) Acrylonitrile	3.068	53	505824	306.730	ug/l	100
16) Acetone	2.386	43	412201	305.134	ug/l	95
17) Carbon Disulfide	2.526	76	363615	38.842	ug/l	98
18) Methyl Acetate	2.715	43	266331	74.800	ug/l	97
19) Methyl tert-butyl Ether	3.123	73	606375	60.153	ug/l	95
20) Methylene Chloride	2.800	84	203157	50.858	ug/l	99
21) trans-1,2-Dichloroethene	3.105	96	177141	48.496	ug/l	98
22) Diisopropyl ether	3.770	45	700243	57.031	ug/l	98
23) Vinyl Acetate	3.727	43	2623382	285.194	ug/l	99
24) 1,1-Dichloroethane	3.617	63	367114	52.427	ug/l	99
25) 2-Butanone	4.556	43	596838	331.149	ug/l	98
26) 2,2-Dichloropropane	4.483	77	276849	53.124	ug/l	99
27) cis-1,2-Dichloroethene	4.495	96	228023	51.130	ug/l	97
28) Bromochloromethane	4.904	49	184178	53.294	ug/l	97
29) Tetrahydrofuran	5.007	42	374504	325.963	ug/l	99
30) Chloroform	5.099	83	372241	52.033	ug/l	99
31) Cyclohexane	5.483	56	291459	46.885	ug/l	100
32) 1,1,1-Trichloroethane	5.391	97	313916	52.522	ug/l	99
36) 1,1-Dichloropropene	5.696	75	239871	46.963	ug/l	99
37) Ethyl Acetate	4.721	43	240378	55.256	ug/l	100
38) Carbon Tetrachloride	5.678	117	261207	48.373	ug/l	97
39) Methylcyclohexane	7.385	83	283537	44.378	ug/l	99
40) Benzene	6.044	78	744412	48.186	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
 Data File : VX047016.D
 Acq On : 16 Jul 2025 09:26
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Quant Time: Jul 17 03:26:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
 Supervised By :Semsettin Yesilyurt 07/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	146638	63.189	ug/l	96
42) 1,2-Dichloroethane	6.092	62	270721	51.606	ug/l	100
43) Isopropyl Acetate	6.342	43	411807	61.803	ug/l	99
44) Trichloroethene	7.129	130	186538	46.385	ug/l	100
45) 1,2-Dichloropropane	7.434	63	196465	50.335	ug/l	99
46) Dibromomethane	7.580	93	137353	50.790	ug/l	98
47) Bromodichloromethane	7.824	83	288758	50.006	ug/l	100
48) Methyl methacrylate	7.690	41	211715	61.535	ug/l	98
49) 1,4-Dioxane	7.659	88	53387	1339.175	ug/l	98
51) 4-Methyl-2-Pentanone	8.574	43	1245013	316.598	ug/l	99
52) Toluene	8.720	92	454929	47.521	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	273466	53.065	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	302907	51.495	ug/l	99
55) 1,1,2-Trichloroethane	9.153	97	184006	51.604	ug/l	99
56) Ethyl methacrylate	9.116	69	291041	58.971	ug/l	97
57) 1,3-Dichloropropane	9.305	76	314115	51.159	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	794246	285.619	ug/l	99
59) 2-Hexanone	9.427	43	851908	326.601	ug/l	99
60) Dibromochloromethane	9.519	129	212976	49.909	ug/l	98
61) 1,2-Dibromoethane	9.610	107	181210	50.601	ug/l	99
64) Tetrachloroethene	9.275	164	145870	44.753	ug/l	97
65) Chlorobenzene	10.079	112	516158	48.766	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	178154	50.070	ug/l	99
67) Ethyl Benzene	10.189	91	893535	49.296	ug/l	99
68) m/p-Xylenes	10.299	106	659982	96.627	ug/l	97
69) o-Xylene	10.640	106	326625	49.506	ug/l	100
70) Styrene	10.653	104	573036	50.765	ug/l	98
71) Bromoform	10.799	173	137554	51.994	ug/l #	99
73) Isopropylbenzene	10.957	105	877270	51.445	ug/l	99
74) N-amyl acetate	10.841	43	362904	62.627	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	262516	55.985	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	214158m	57.136	ug/l	
77) Bromobenzene	11.195	156	209727	49.376	ug/l	95
78) n-propylbenzene	11.299	91	1031313	50.156	ug/l	100
79) 2-Chlorotoluene	11.360	91	618288	50.925	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	709704	51.220	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	79380	56.831	ug/l	98
82) 4-Chlorotoluene	11.451	91	716382	51.130	ug/l	99
83) tert-Butylbenzene	11.713	119	733272	51.238	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	710408	50.725	ug/l	95
85) sec-Butylbenzene	11.890	105	900054	49.882	ug/l	100
86) p-Isopropyltoluene	12.006	119	752885	49.827	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	390135	49.111	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	394339	47.697	ug/l	99
89) n-Butylbenzene	12.329	91	697969	49.161	ug/l	99
90) Hexachloroethane	12.536	117	129831	48.469	ug/l	96
91) 1,2-Dichlorobenzene	12.335	146	379822	49.340	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	50868	62.024	ug/l	93
93) 1,2,4-Trichlorobenzene	13.585	180	258543	49.437	ug/l	100
94) Hexachlorobutadiene	13.725	225	84355	42.770	ug/l	99
95) Naphthalene	13.774	128	793570	57.585	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	246683	49.921	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
Data File : VX047016.D
Acq On : 16 Jul 2025 09:26
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 :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:26:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

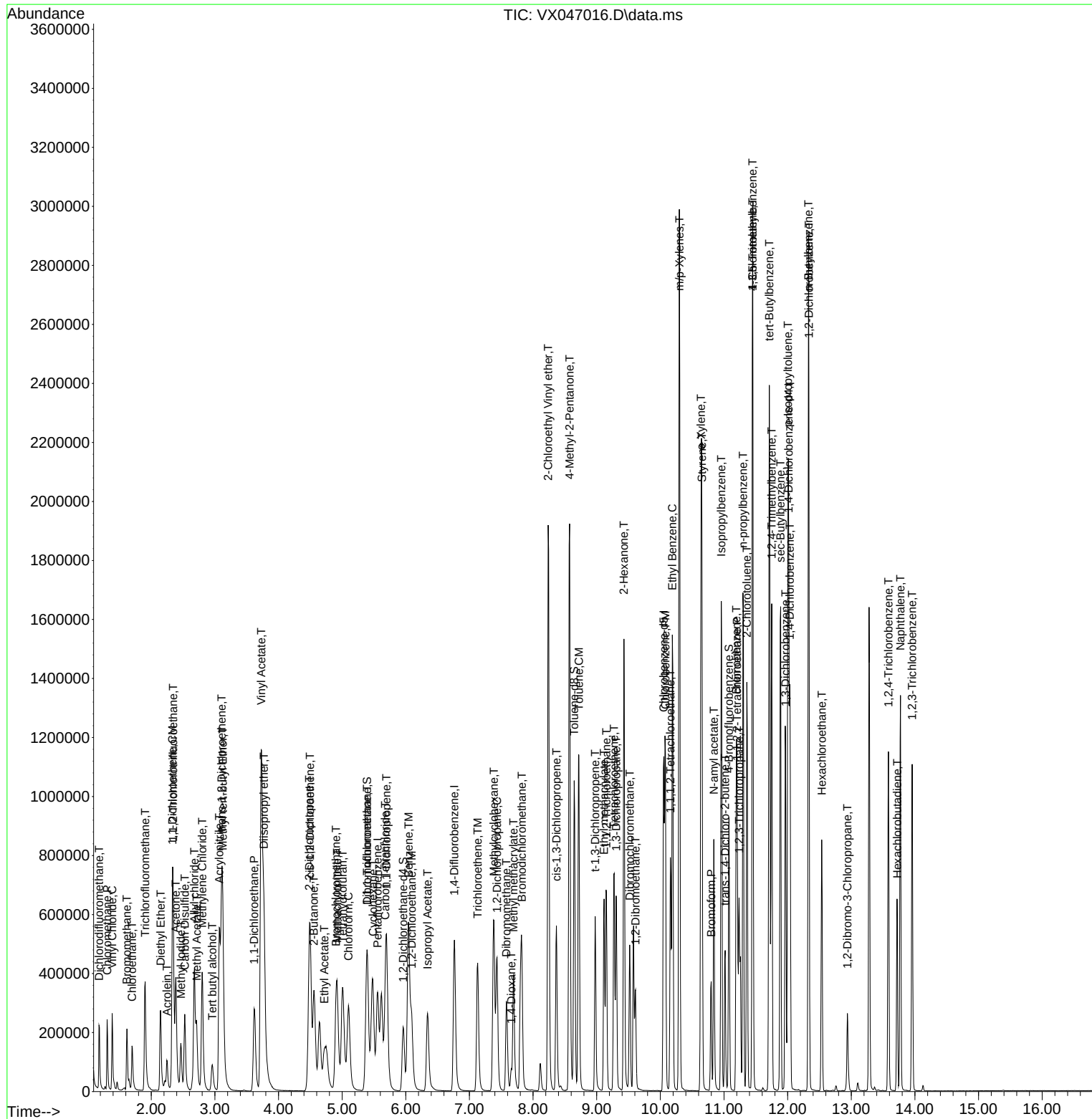
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

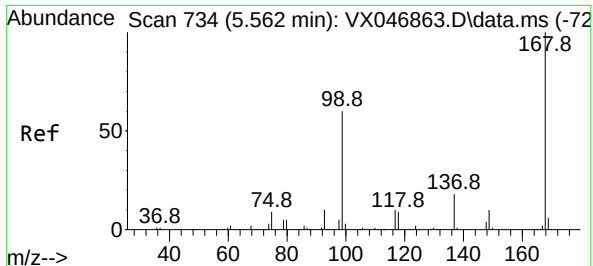
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025





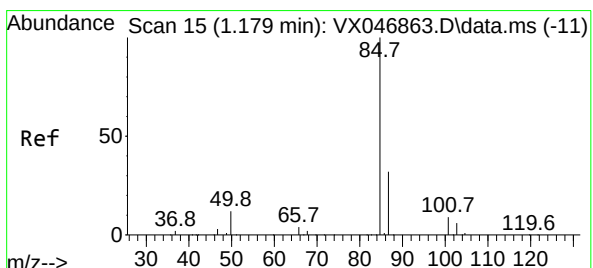
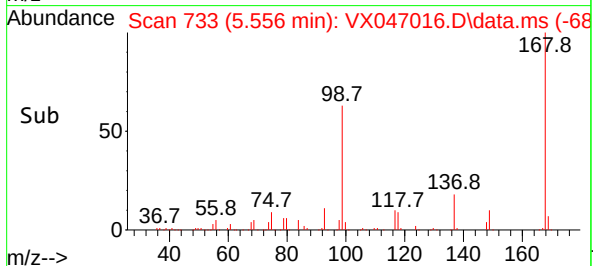
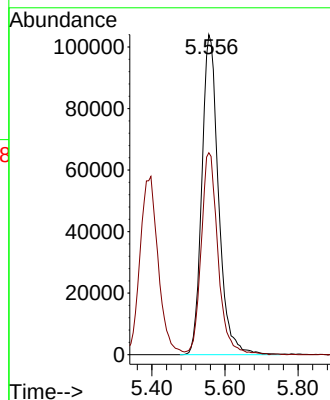
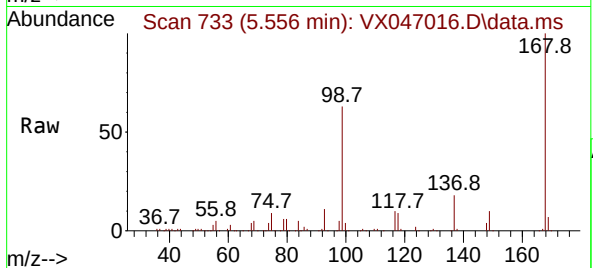
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 329194
Ion Ratio Lower Upper
168 100
99 63.0 48.8 73.2

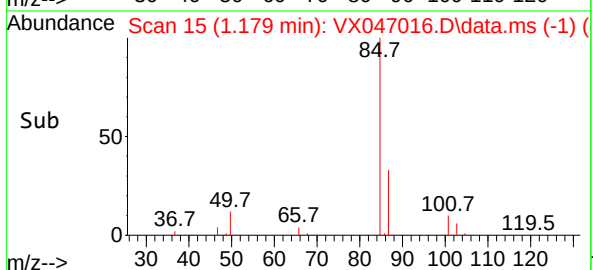
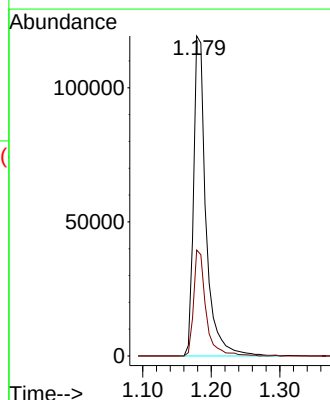
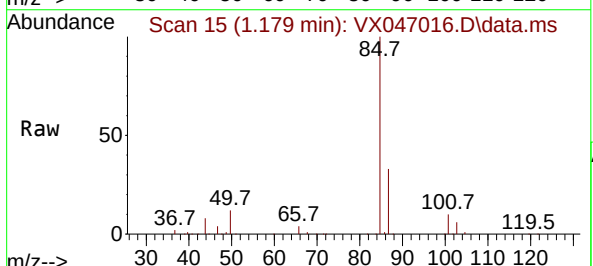
Manual Integrations
APPROVED

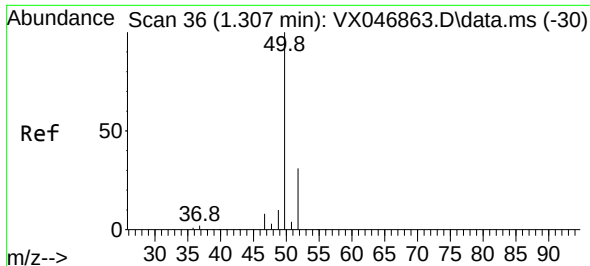
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#2
Dichlorodifluoromethane
Concen: 47.921 ug/l
RT: 1.179 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

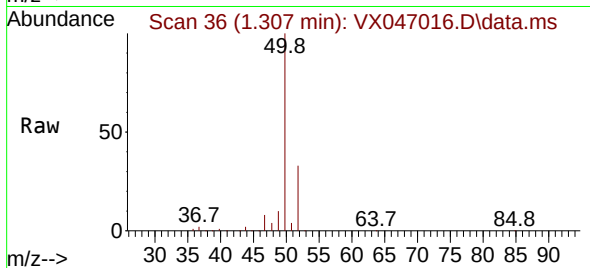
Tgt Ion: 85 Resp: 150869
Ion Ratio Lower Upper
85 100
87 33.1 16.0 47.9





#3
Chloromethane
Concen: 46.787 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

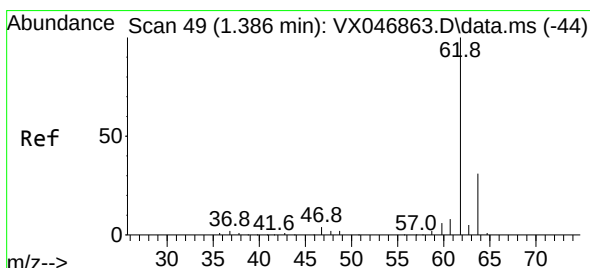
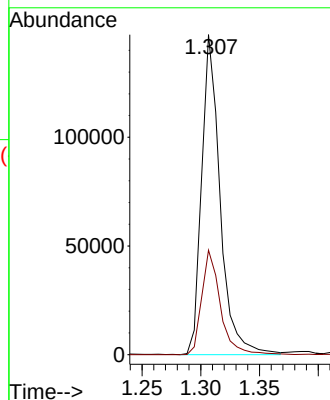
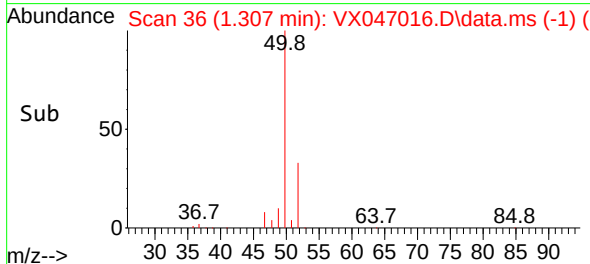
Instrument :
MSVOA_X
ClientSampleId :
VSTDC050



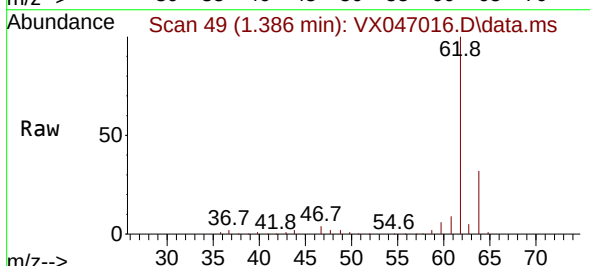
Tgt Ion: 50 Resp: 16093
Ion Ratio Lower Upper
50 100
52 32.7 25.0 37.4

Manual Integrations
APPROVED

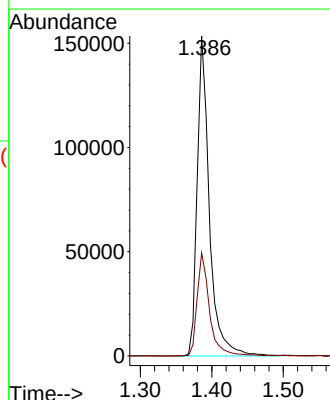
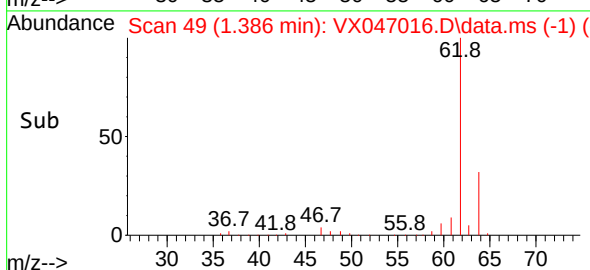
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

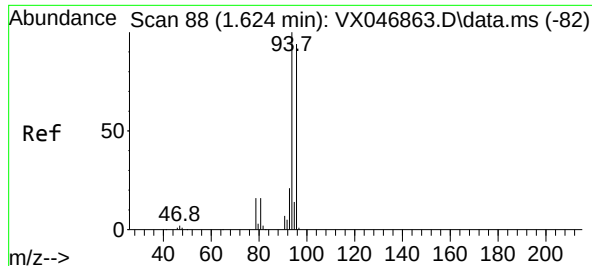


#4
Vinyl Chloride
Concen: 48.367 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26



Tgt Ion: 62 Resp: 181170
Ion Ratio Lower Upper
62 100
64 32.1 25.0 37.4





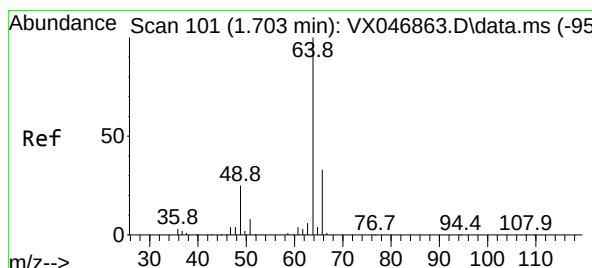
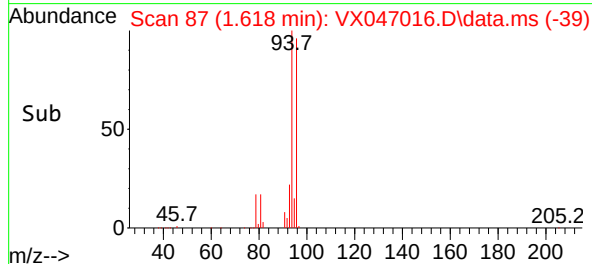
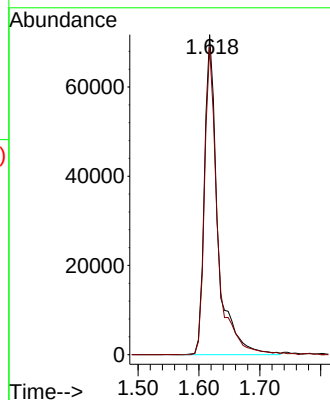
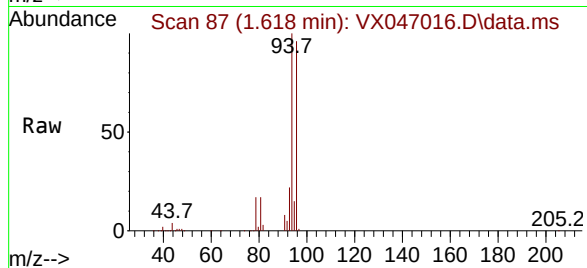
#5
Bromomethane
Concen: 45.161 ug/l
RT: 1.618 min Scan# 81
Delta R.T. -0.006 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 108692
Ion Ratio Lower Upper
94 100
96 96.0 75.5 113.3

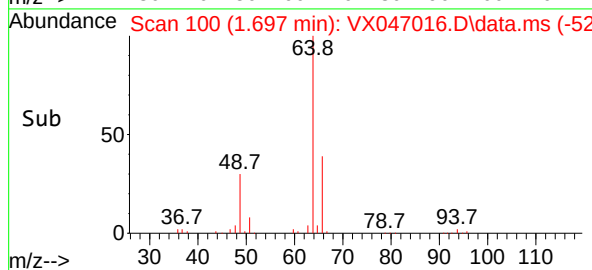
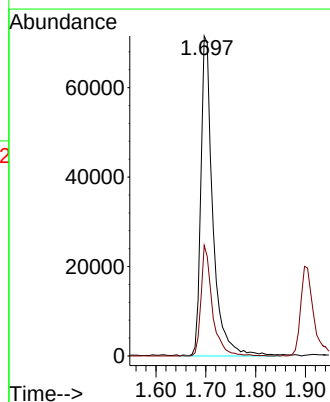
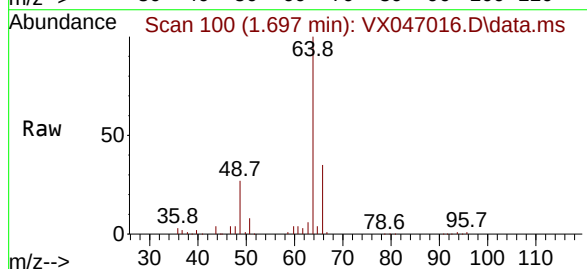
Manual Integrations
APPROVED

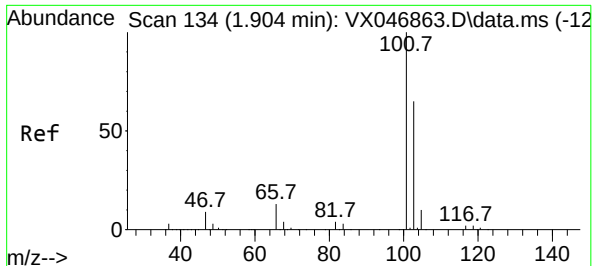
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#6
Chloroethane
Concen: 48.469 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

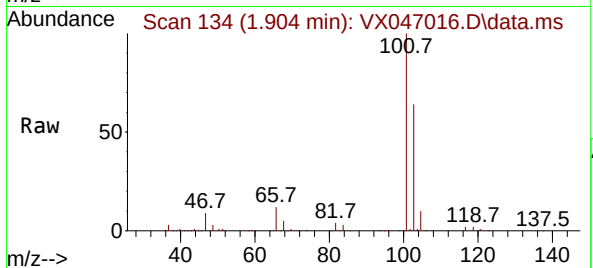
Tgt Ion: 64 Resp: 119884
Ion Ratio Lower Upper
64 100
66 34.5 26.4 39.6





#7
Trichlorofluoromethane
Concen: 50.991 ug/l
RT: 1.904 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

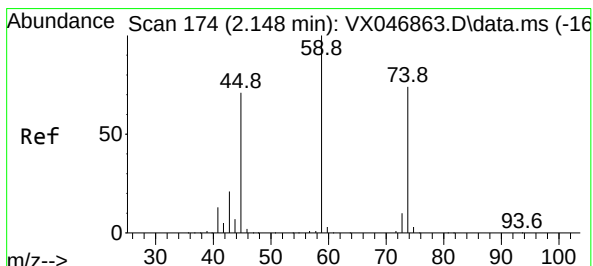
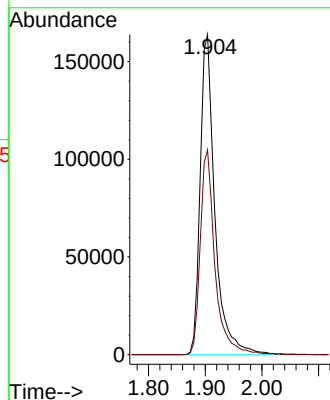
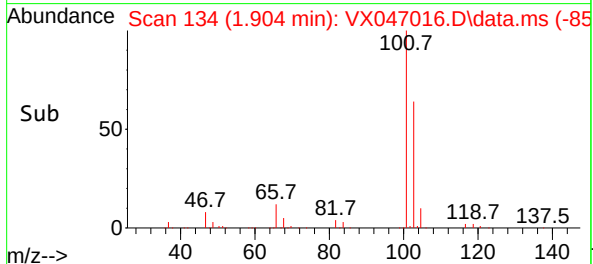
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



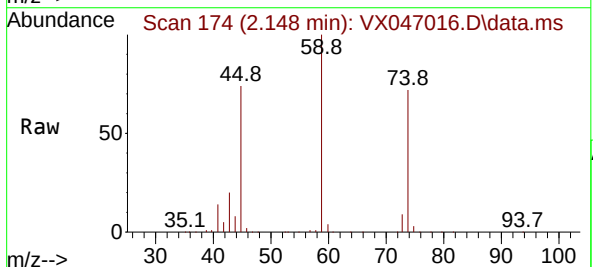
Tgt Ion:101 Resp: 295330
Ion Ratio Lower Upper
101 100
103 64.0 51.9 77.9

Manual Integrations
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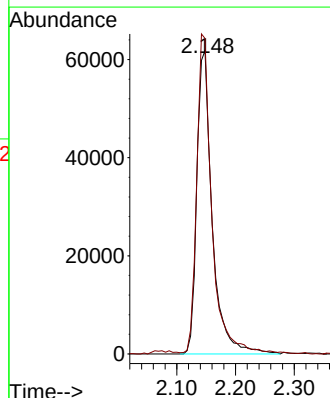
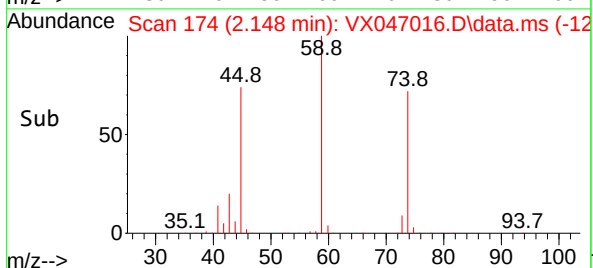
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

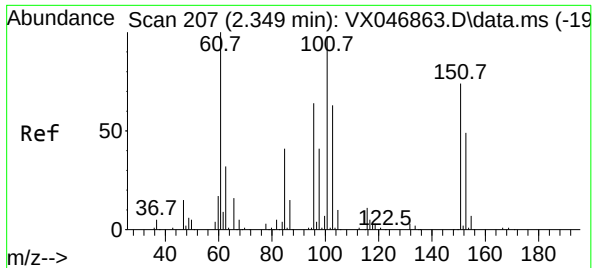


#8
Diethyl Ether
Concen: 54.670 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26



Tgt Ion: 74 Resp: 112682
Ion Ratio Lower Upper
74 100
45 103.3 50.7 152.1





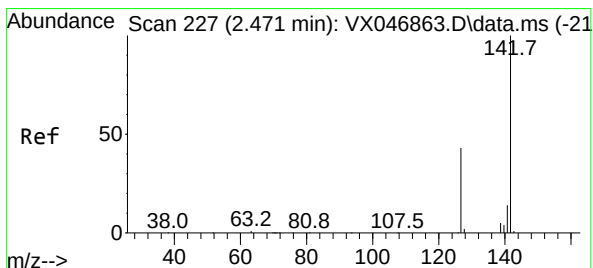
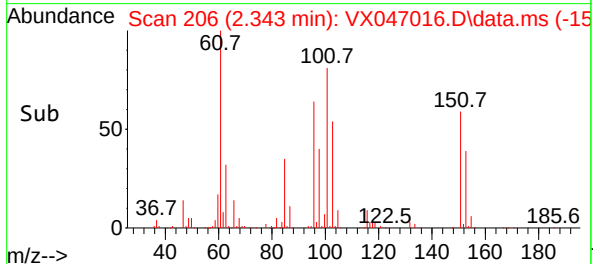
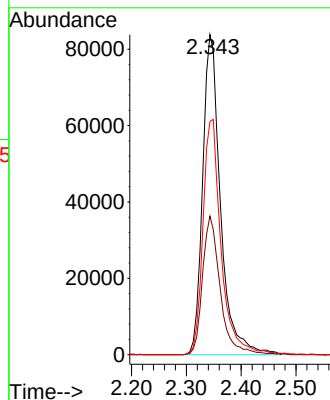
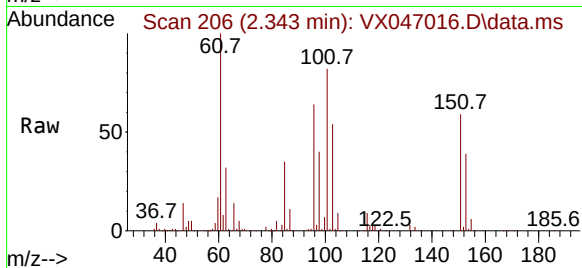
#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.369 ug/l
RT: 2.343 min Scan# 206
Delta R.T. -0.006 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 189580
Ion Ratio Lower Upper
101 100
85 43.0 34.3 51.5
151 74.9 59.9 89.9

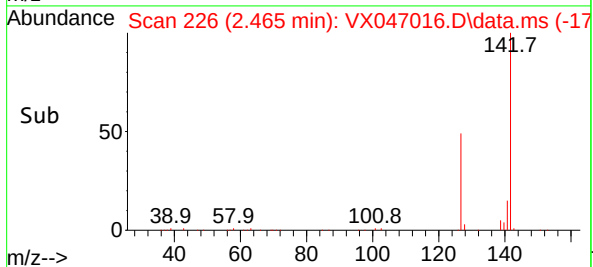
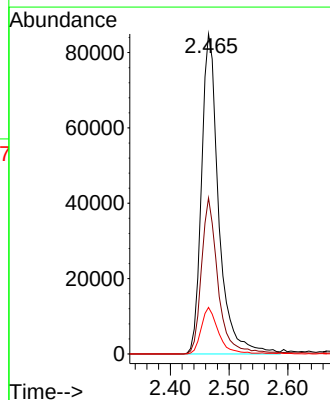
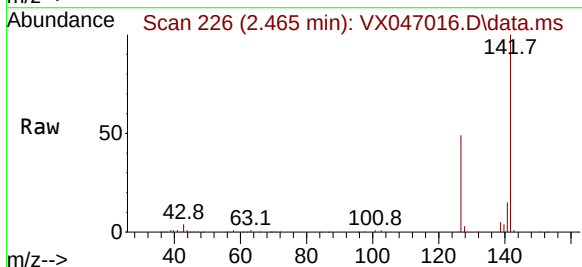
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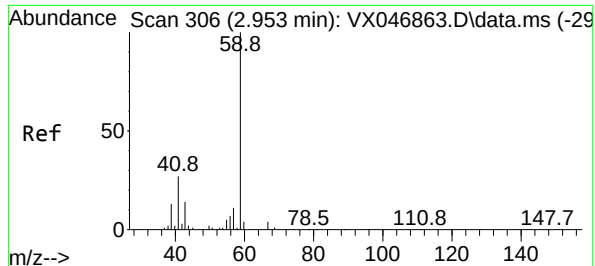
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#10
Methyl Iodide
Concen: 42.993 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Tgt Ion:142 Resp: 172862
Ion Ratio Lower Upper
142 100
127 47.3 34.9 52.3
141 14.5 11.1 16.7





#11

Tert butyl alcohol

Concen: 386.477 ug/l

RT: 2.959 min Scan# 306

Delta R.T. 0.006 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 110234

Ion Ratio Lower Upper

59 100

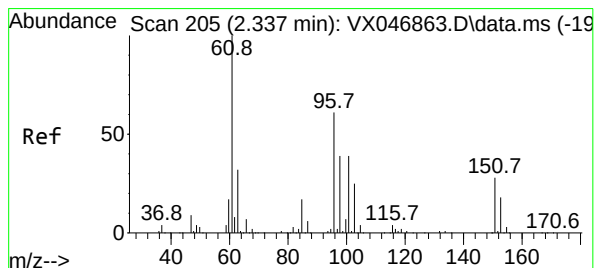
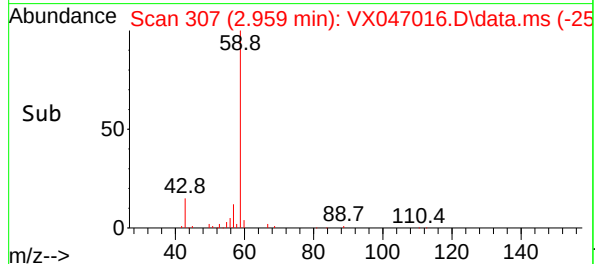
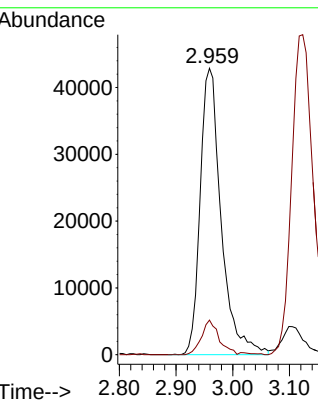
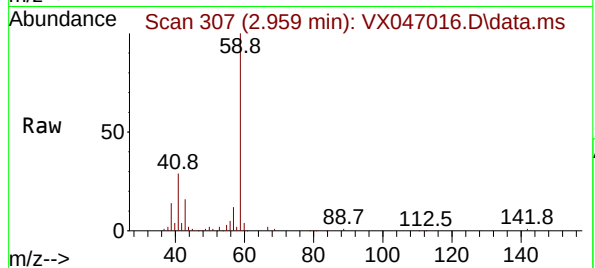
57 10.2 8.5 12.7

Manual Integrations

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Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#12

1,1-Dichloroethene

Concen: 49.305 ug/l

RT: 2.331 min Scan# 204

Delta R.T. -0.006 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

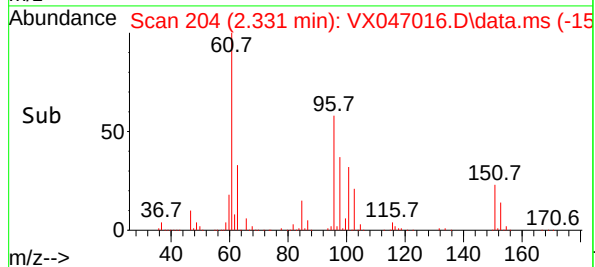
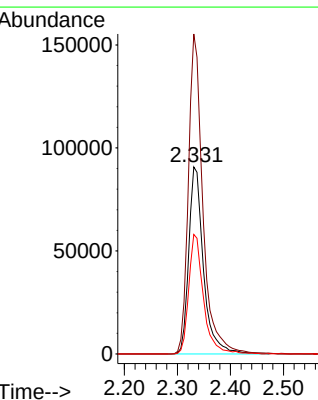
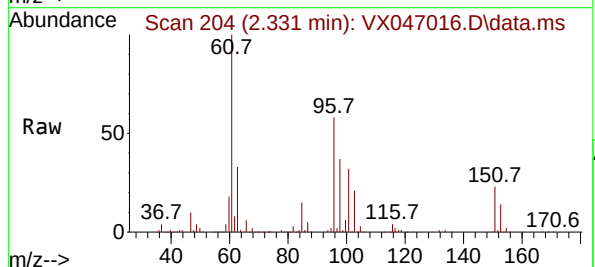
Tgt Ion: 96 Resp: 176000

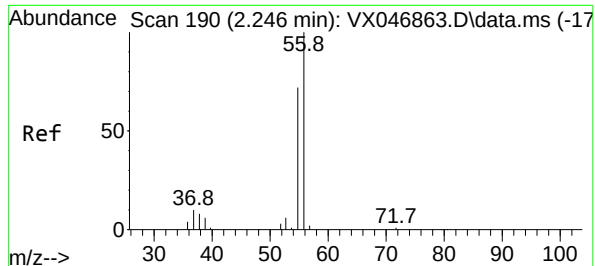
Ion Ratio Lower Upper

96 100

61 171.1 130.2 195.4

98 63.9 51.3 76.9





#13

Acrolein

Concen: 268.622 ug/l

RT: 2.245 min Scan# 190

Delta R.T. -0.001 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 84732

Ion Ratio Lower Upper

56 100

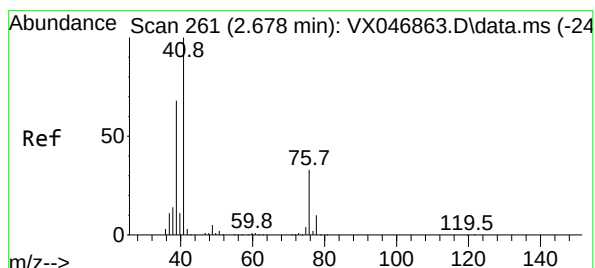
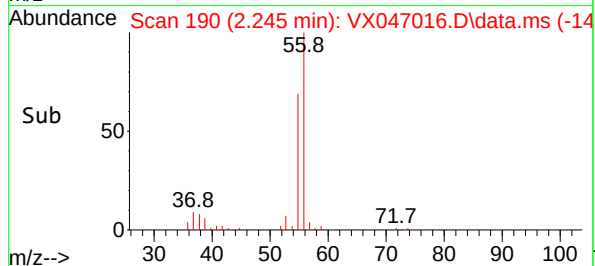
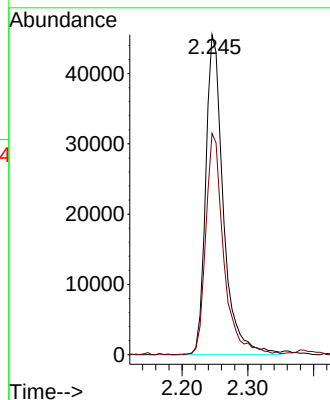
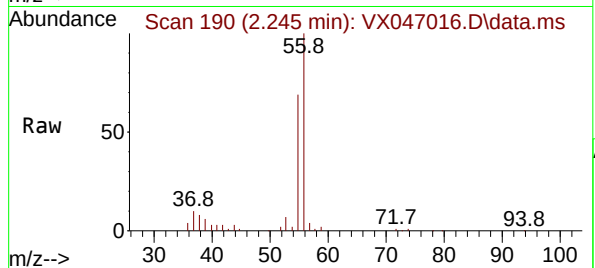
55 70.7 55.5 83.3

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Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#14

Allyl chloride

Concen: 53.017 ug/l

RT: 2.678 min Scan# 261

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

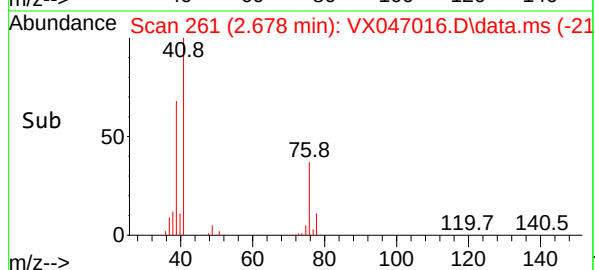
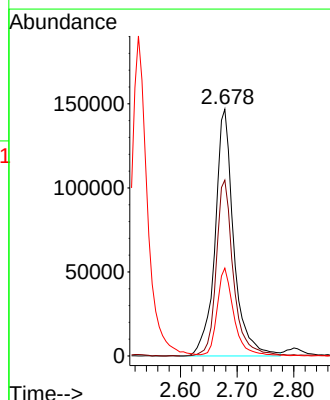
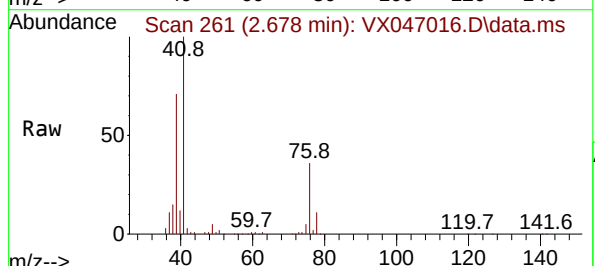
Tgt Ion: 41 Resp: 336939

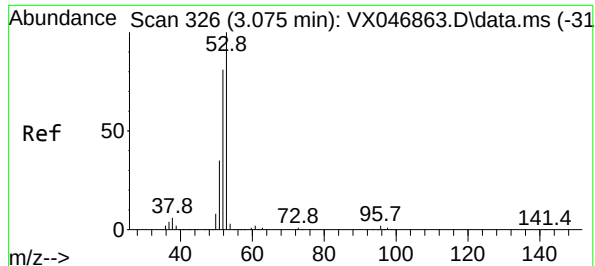
Ion Ratio Lower Upper

41 100

39 65.7 52.0 78.0

76 31.5 26.2 39.2





#15

Acrylonitrile

Concen: 306.730 ug/l

RT: 3.068 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 53 Resp: 505824

Ion Ratio Lower Upper

53 100

52 82.2 66.0 99.0

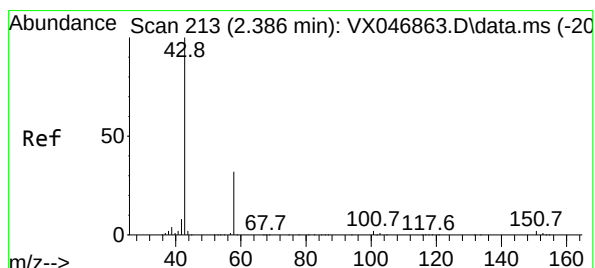
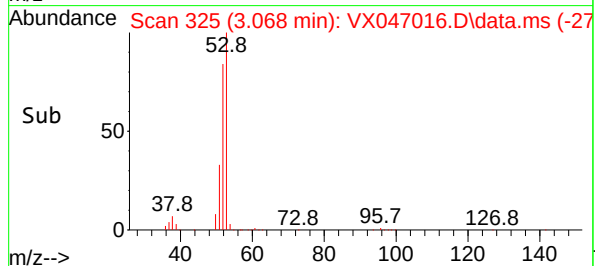
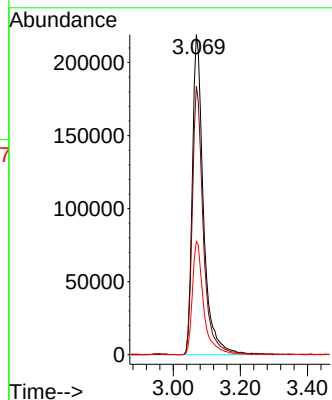
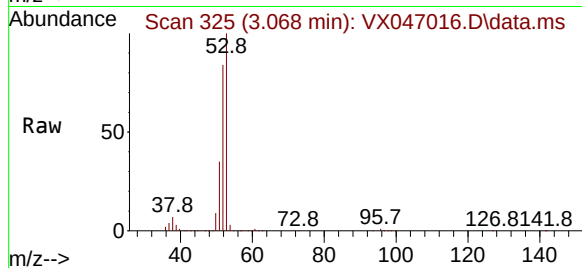
51 35.9 28.6 43.0

Manual Integrations

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Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#16

Acetone

Concen: 305.134 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.000 min

Lab File: VX047016.D

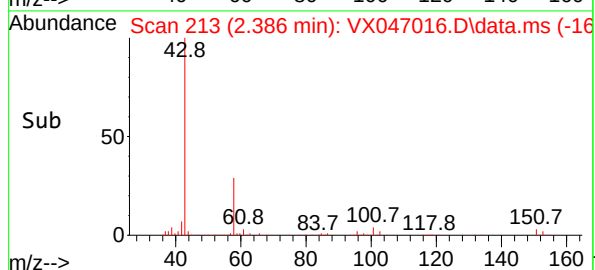
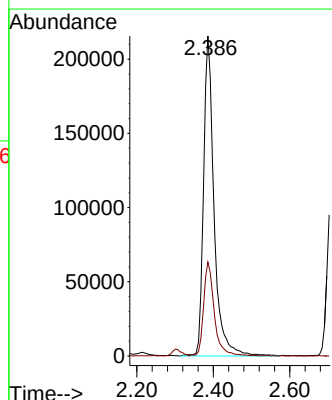
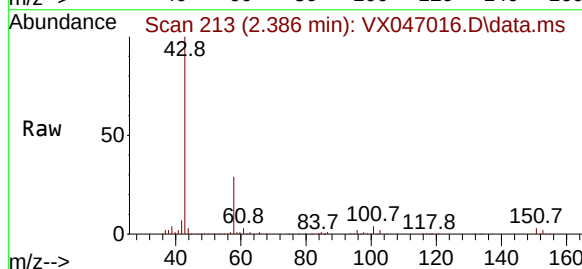
Acq: 16 Jul 2025 09:26

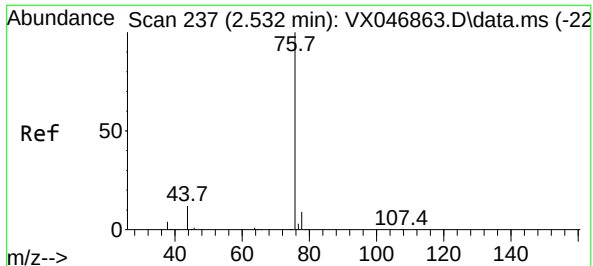
Tgt Ion: 43 Resp: 412201

Ion Ratio Lower Upper

43 100

58 29.4 25.8 38.6





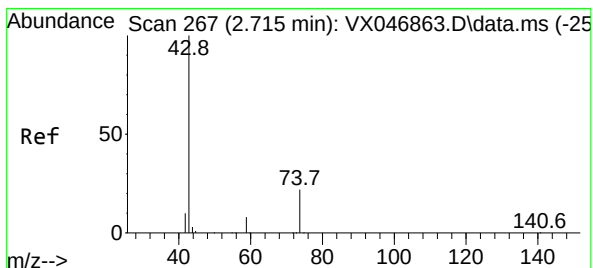
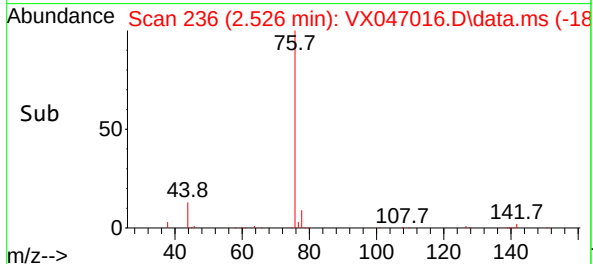
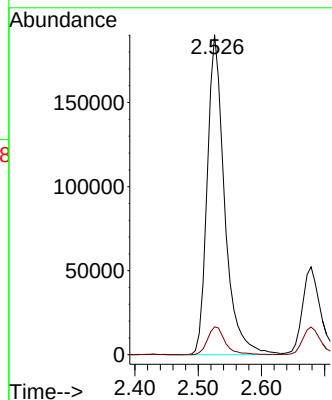
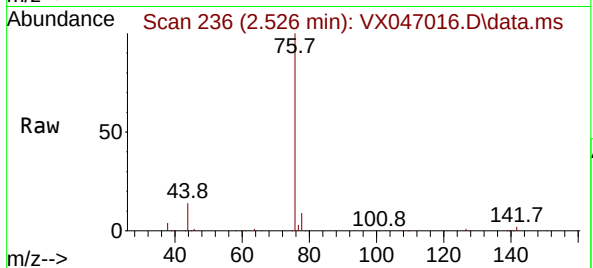
#17
Carbon Disulfide
Concen: 38.842 ug/l
RT: 2.526 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 36361
Ion Ratio Lower Upper
76 100
78 8.7 7.4 11.2

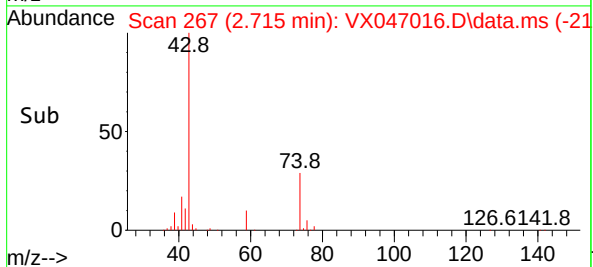
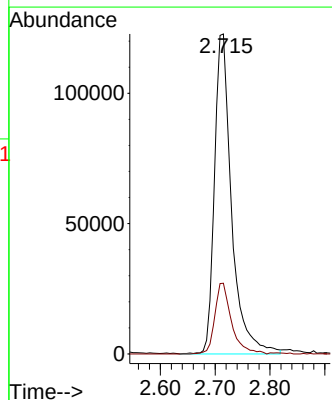
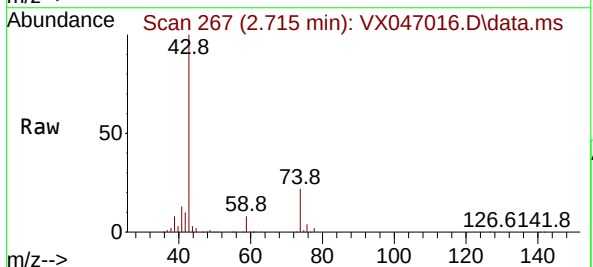
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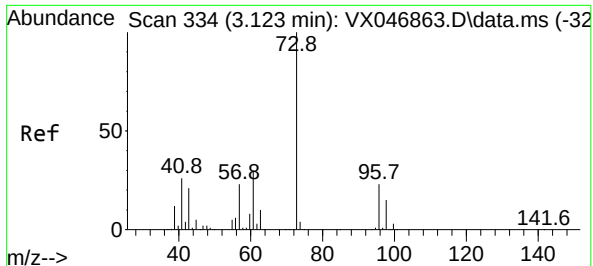
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#18
Methyl Acetate
Concen: 74.800 ug/l
RT: 2.715 min Scan# 267
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Tgt Ion: 43 Resp: 266331
Ion Ratio Lower Upper
43 100
74 21.5 18.3 27.5





#19

Methyl tert-butyl Ether

Concen: 60.153 ug/l

RT: 3.123 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 60637

Ion Ratio Lower Upper

73 100

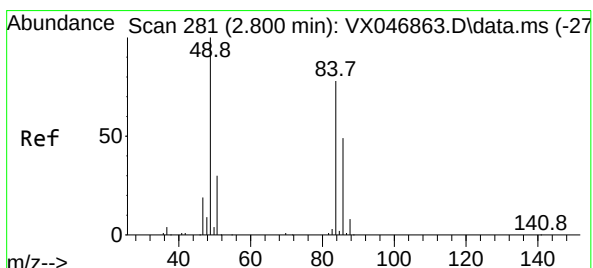
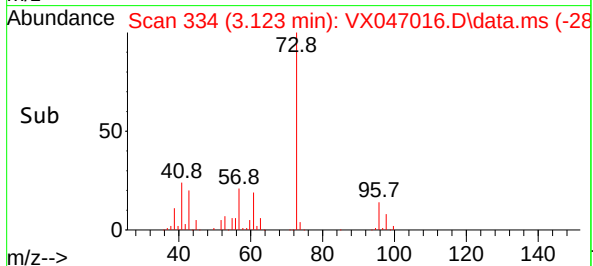
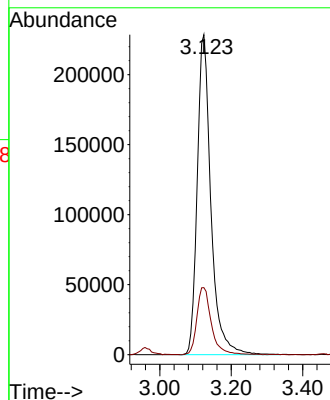
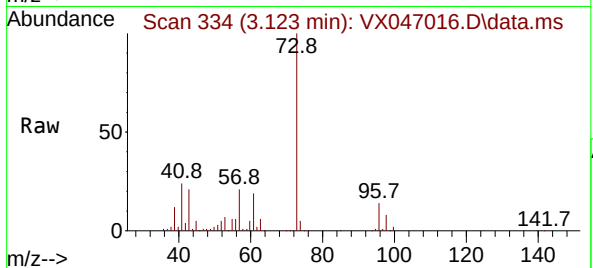
57 21.0 18.6 28.0

Manual Integrations

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Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#20

Methylene Chloride

Concen: 50.858 ug/l

RT: 2.800 min Scan# 281

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Tgt Ion: 84 Resp: 203157

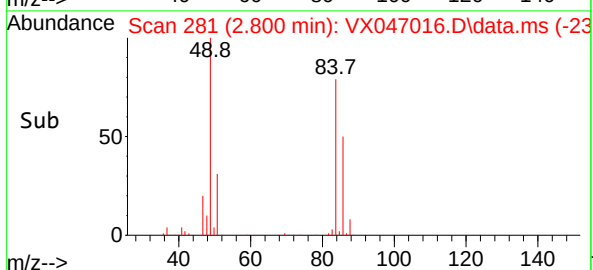
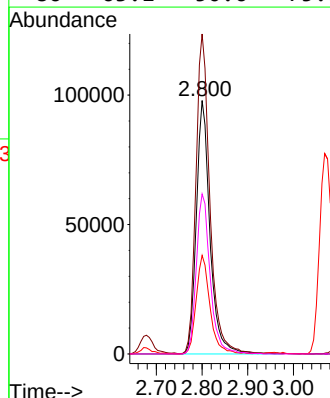
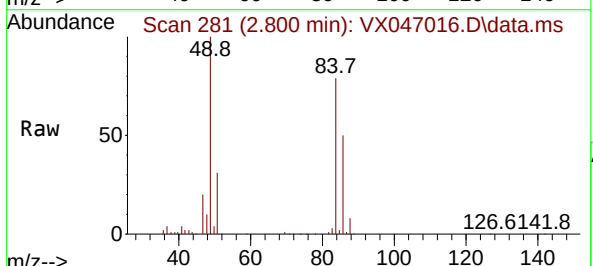
Ion Ratio Lower Upper

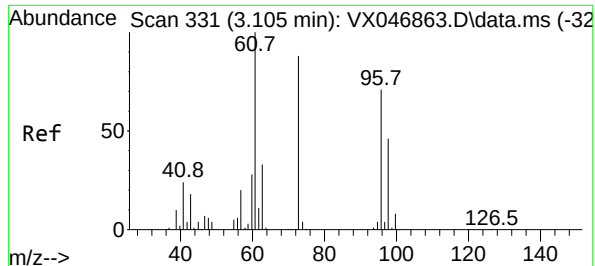
84 100

49 126.1 102.8 154.2

51 38.9 31.1 46.7

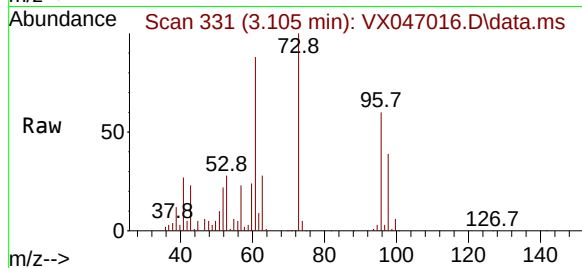
86 63.1 50.6 75.8





#21
trans-1,2-Dichloroethene
Concen: 48.496 ug/l
RT: 3.105 min Scan# 31
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

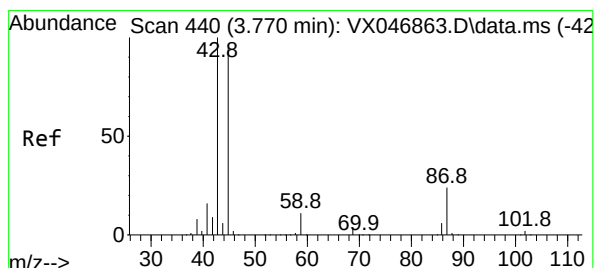
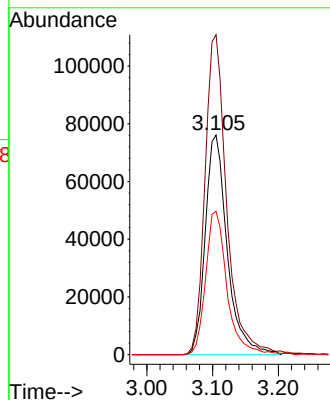
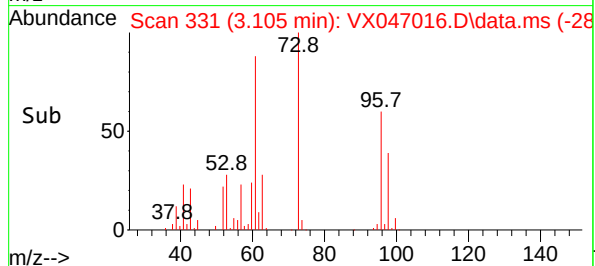
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 96 Resp: 17714
Ion Ratio Lower Upper
96 100
61 145.8 113.4 170.2
98 65.3 51.8 77.6

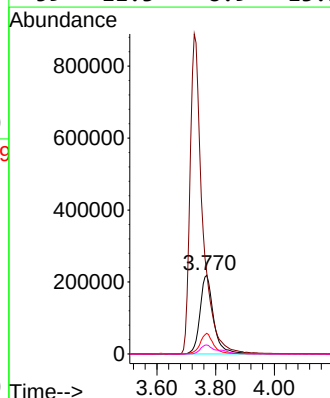
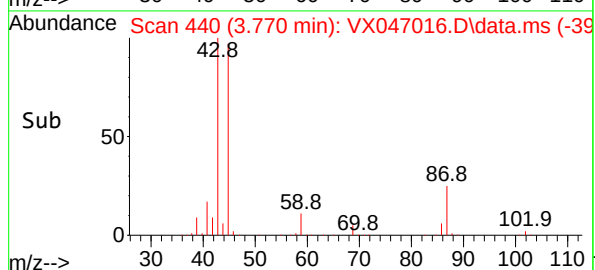
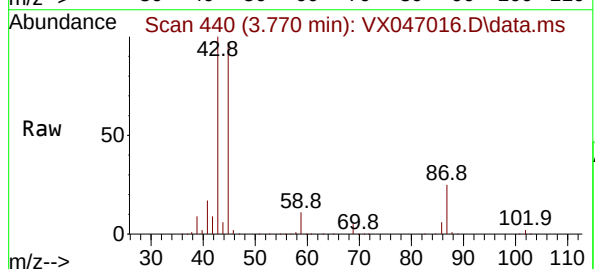
Manual Integrations
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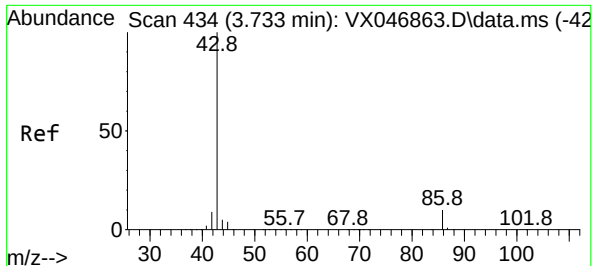
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#22
Diisopropyl ether
Concen: 57.031 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Tgt Ion: 45 Resp: 700243
Ion Ratio Lower Upper
45 100
43 102.6 84.2 126.4
87 26.1 20.3 30.5
59 11.3 8.9 13.3





#23

Vinyl Acetate

Concen: 285.194 ug/l

RT: 3.727 min Scan# 41

Delta R.T. -0.006 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 262338

Ion Ratio Lower Upper

43

100

86

10.0

8.2

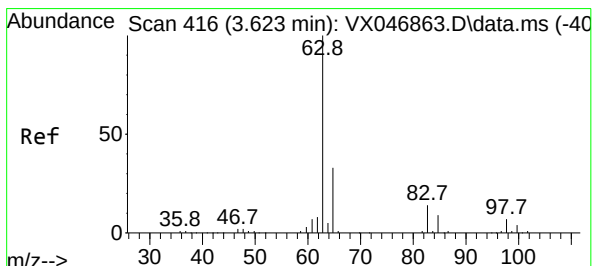
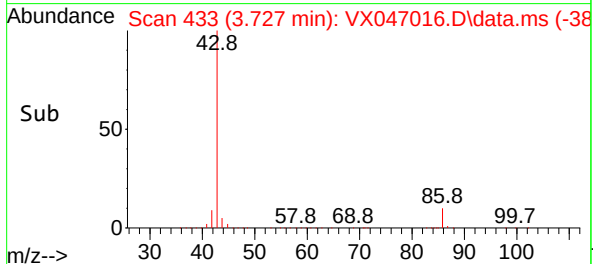
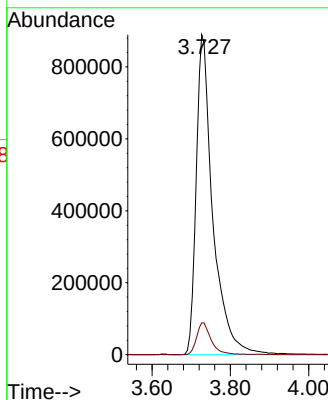
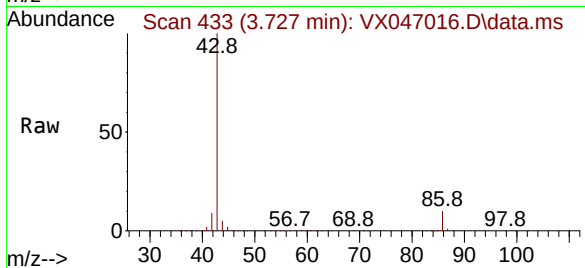
12.4

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Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#24

1,1-Dichloroethane

Concen: 52.427 ug/l

RT: 3.617 min Scan# 415

Delta R.T. -0.006 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Tgt Ion: 63 Resp: 367114

Ion Ratio Lower Upper

63

100

98

100

7.7

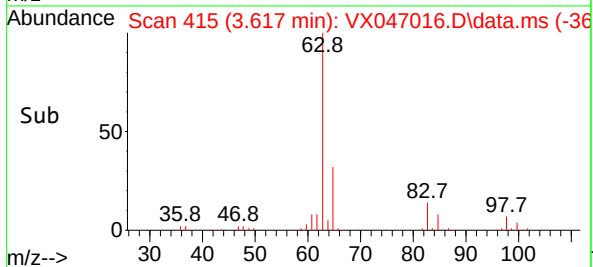
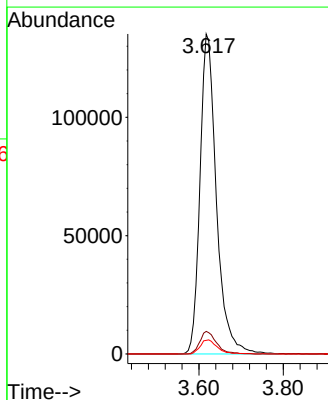
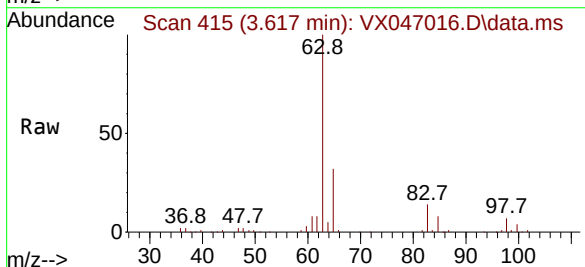
4.4

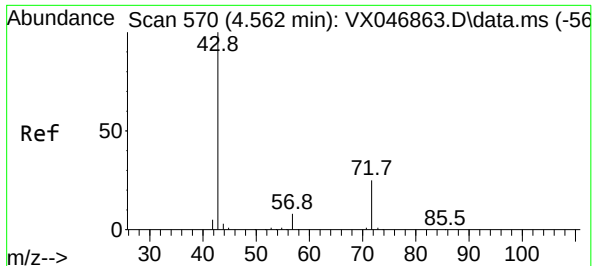
3.6

10.9

2.3

6.9





#25

2-Butanone

Concen: 331.149 ug/l

RT: 4.556 min Scan# 50

Delta R.T. -0.006 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDC050

Tgt Ion: 43 Resp: 59683

Ion Ratio Lower Upper

43 100

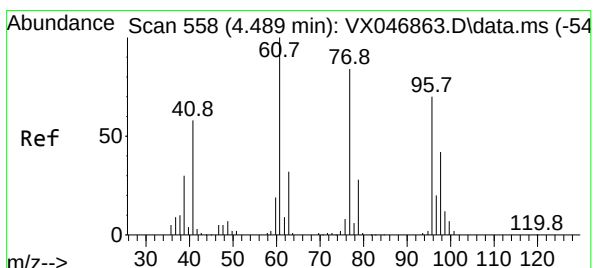
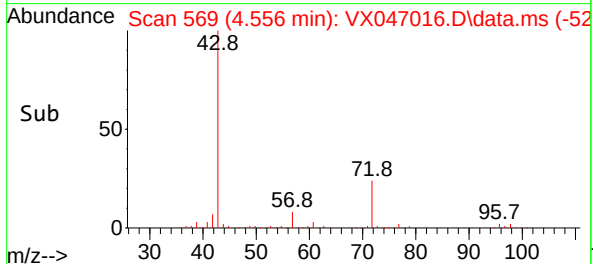
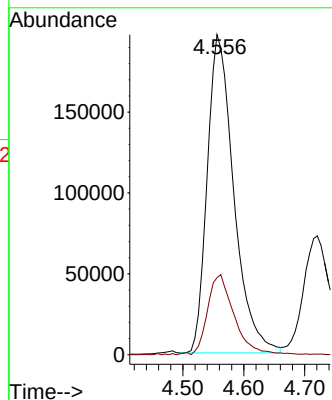
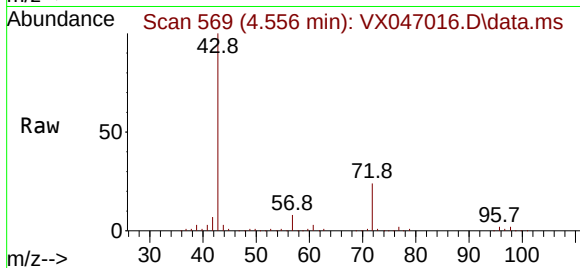
72 23.9 20.0 30.0

Manual Integrations

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Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#26

2,2-Dichloropropane

Concen: 53.124 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.006 min

Lab File: VX047016.D

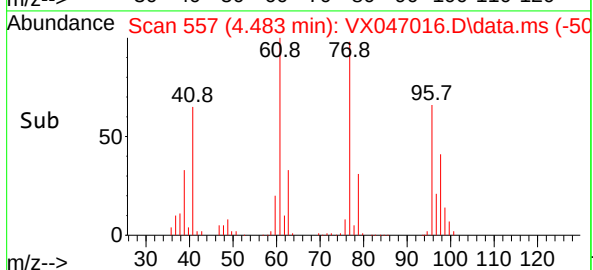
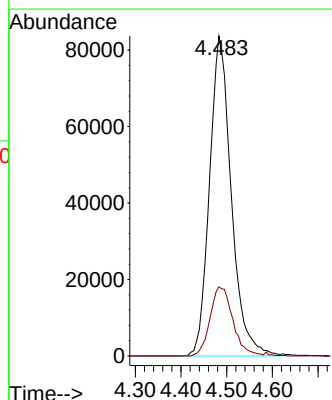
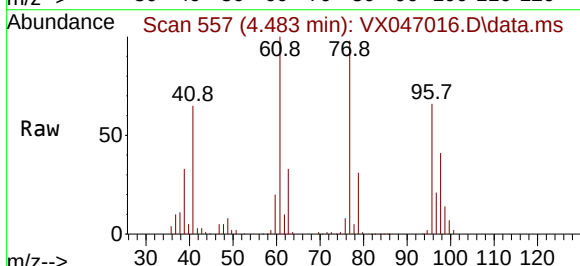
Acq: 16 Jul 2025 09:26

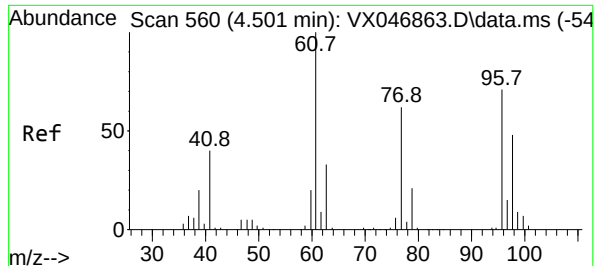
Tgt Ion: 77 Resp: 276849

Ion Ratio Lower Upper

77 100

97 22.6 11.5 34.5





#27

cis-1,2-Dichloroethene

Concen: 51.130 ug/l

RT: 4.495 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 22802

Ion Ratio Lower Upper

96 100

61 148.0 0.0 288.6

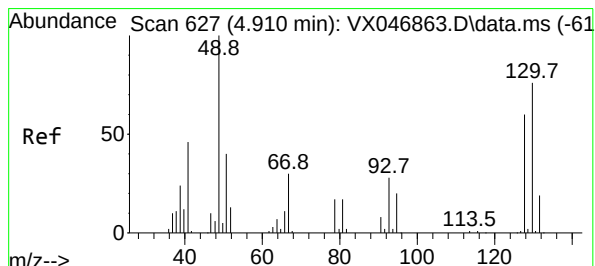
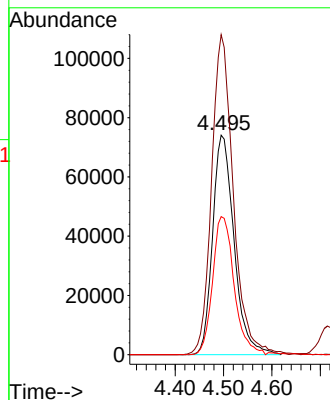
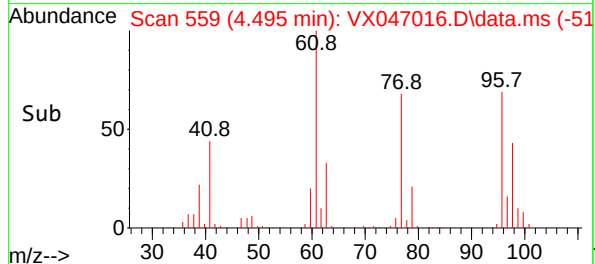
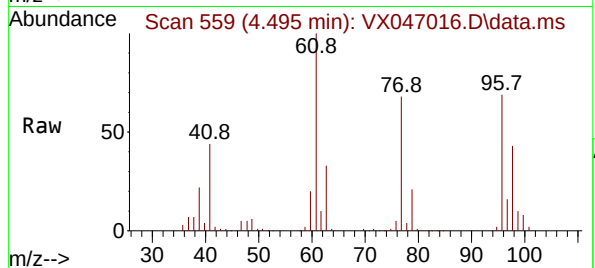
98 63.3 0.0 128.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#28

Bromochloromethane

Concen: 53.294 ug/l

RT: 4.904 min Scan# 626

Delta R.T. -0.006 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

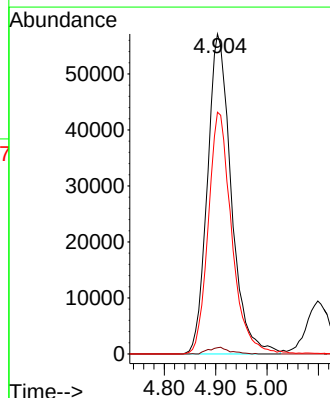
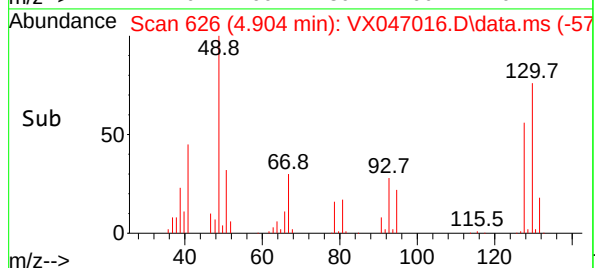
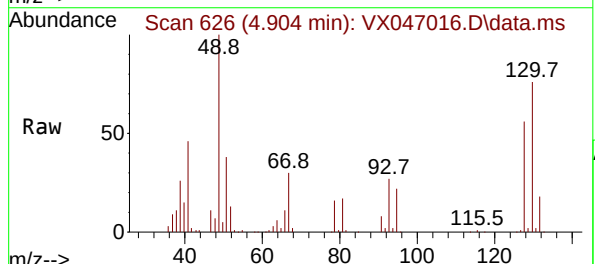
Tgt Ion: 49 Resp: 184178

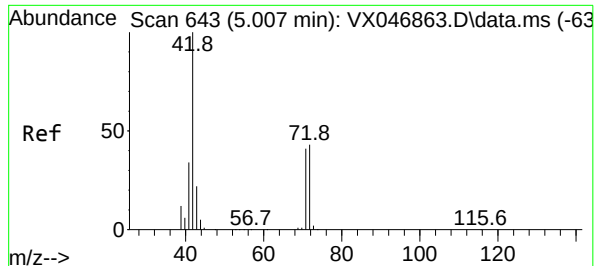
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.2

130 74.4 61.7 92.5





#29

Tetrahydrofuran

Concen: 325.963 ug/l

RT: 5.007 min Scan# 64

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 374504

Ion Ratio Lower Upper

42 100

72 43.4 35.1 52.7

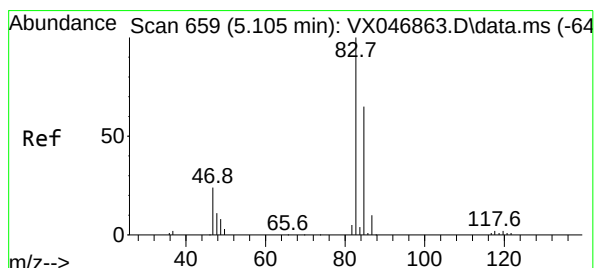
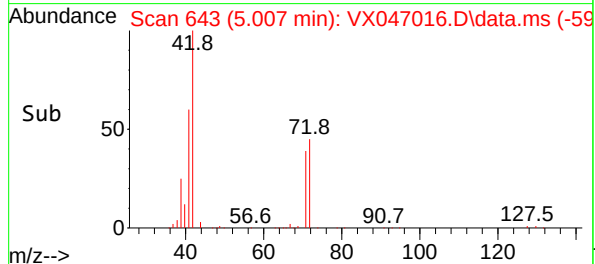
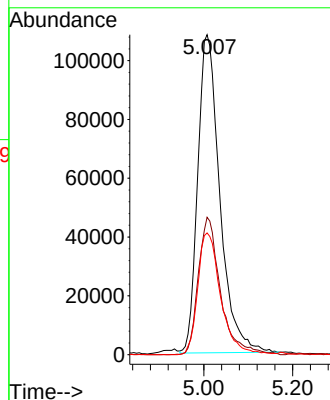
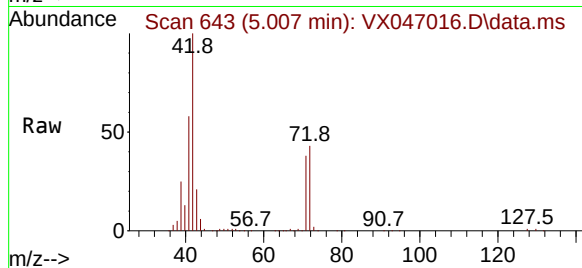
71 39.6 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#30

Chloroform

Concen: 52.033 ug/l

RT: 5.099 min Scan# 658

Delta R.T. -0.006 min

Lab File: VX047016.D

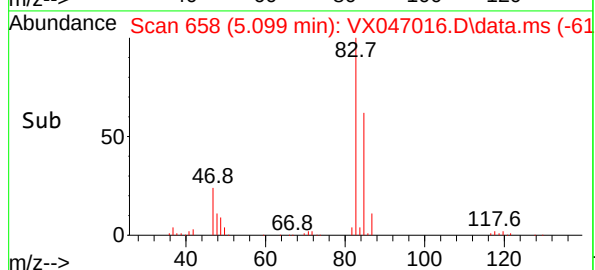
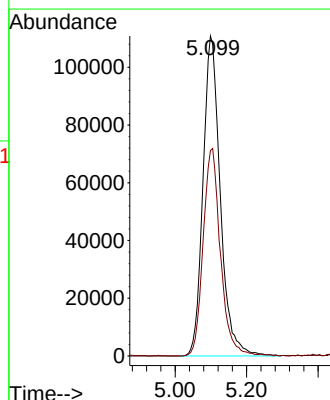
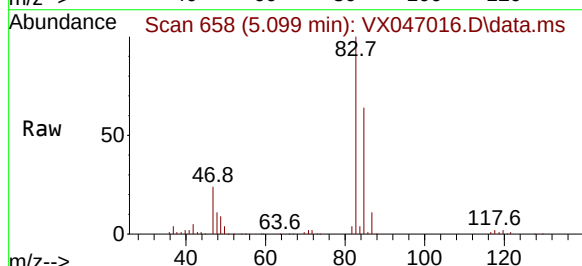
Acq: 16 Jul 2025 09:26

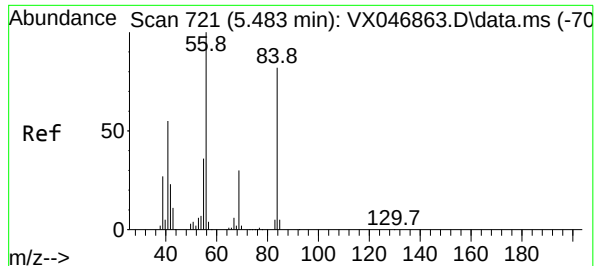
Tgt Ion: 83 Resp: 372241

Ion Ratio Lower Upper

83 100

85 64.2 51.8 77.8





#31

Cyclohexane

Concen: 46.885 ug/l

RT: 5.483 min Scan# 706

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 291459

Ion Ratio Lower Upper

56 100

69 29.9 24.0 36.0

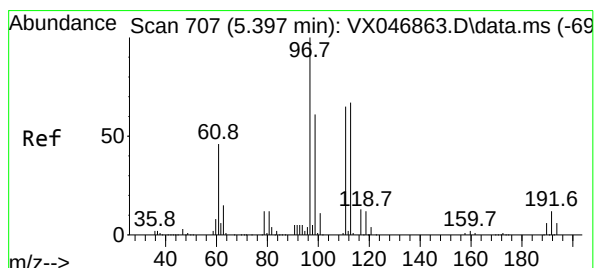
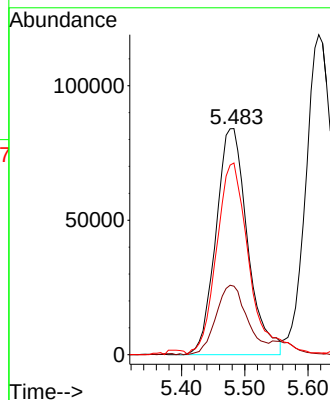
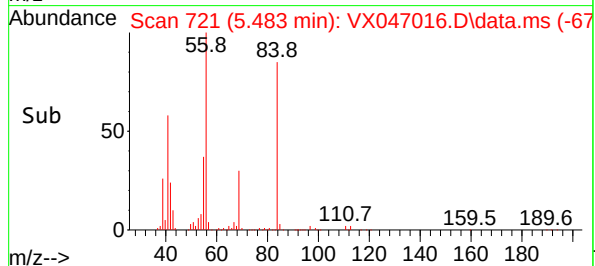
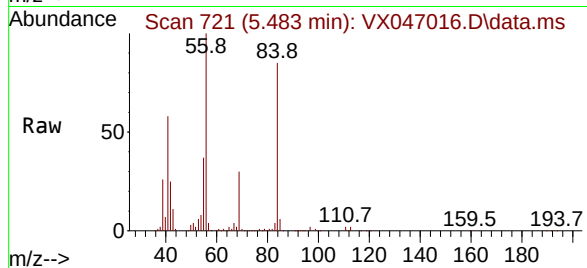
84 83.0 66.5 99.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#32

1,1,1-Trichloroethane

Concen: 52.522 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

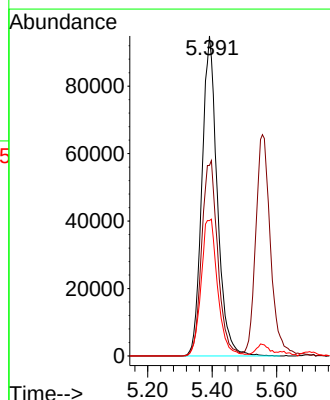
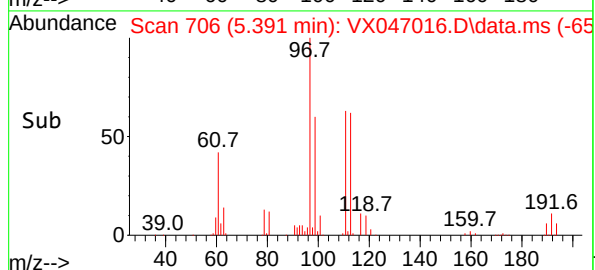
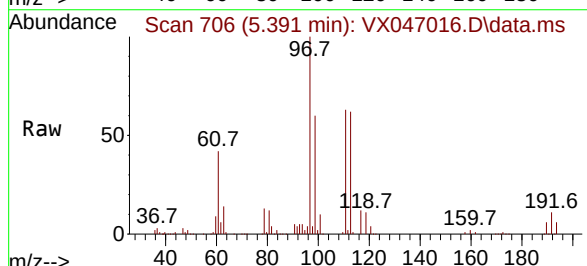
Tgt Ion: 97 Resp: 313916

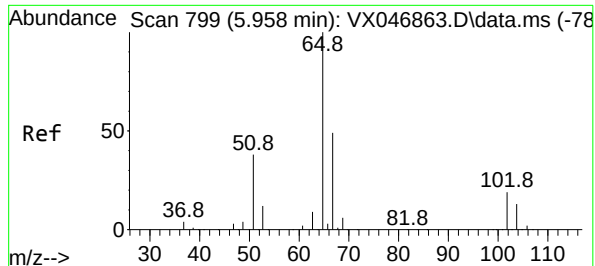
Ion Ratio Lower Upper

97 100

99 63.8 50.6 76.0

61 46.0 36.3 54.5





#33

1,2-Dichloroethane-d4

Concen: 52.377 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 227784

Ion Ratio Lower Upper

65 100

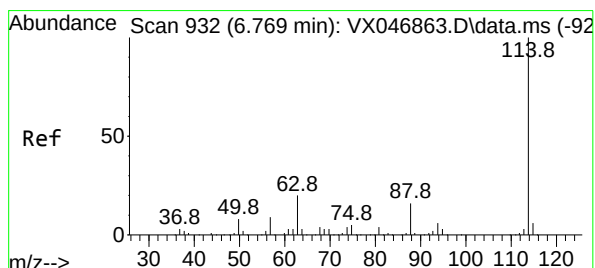
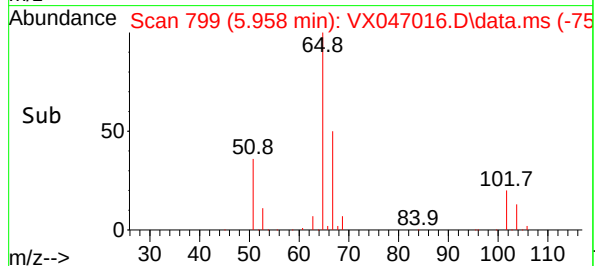
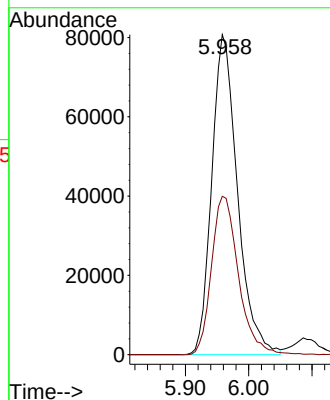
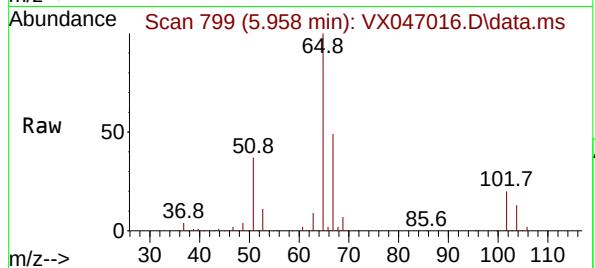
67 52.0 0.0 105.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.006 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

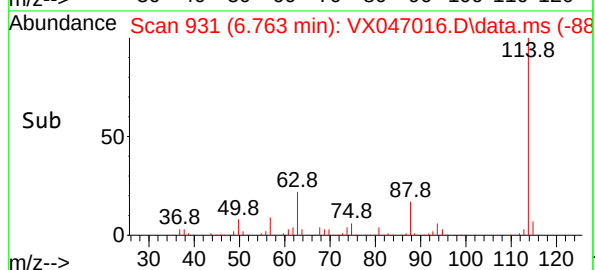
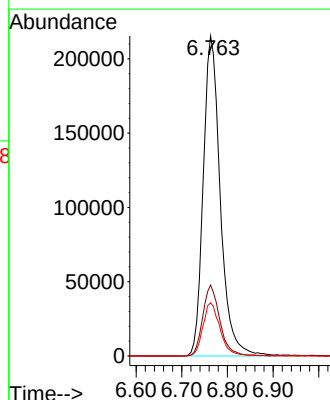
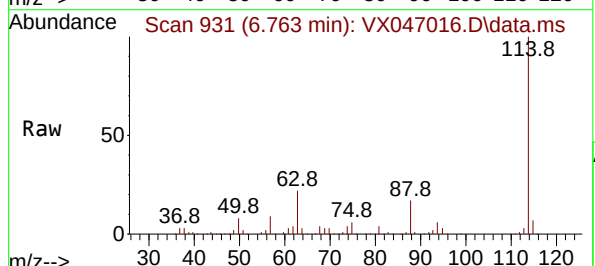
Tgt Ion:114 Resp: 557691

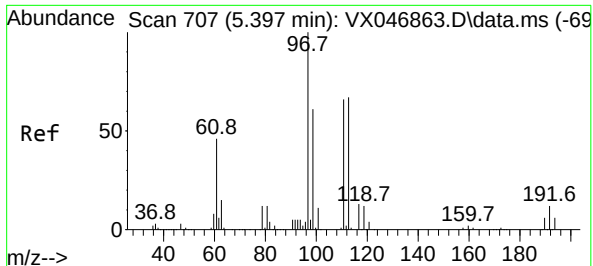
Ion Ratio Lower Upper

114 100

63 22.2 0.0 40.4

88 16.6 0.0 31.0





#35

Dibromofluoromethane

Concen: 49.364 ug/l

RT: 5.391 min Scan# 707

Delta R.T. -0.006 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:113 Resp: 186872

Ion Ratio Lower Upper

113 100

111 104.2 81.2 121.8

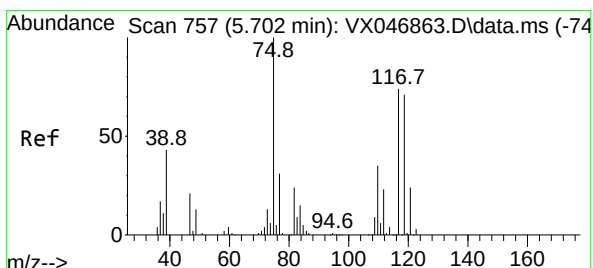
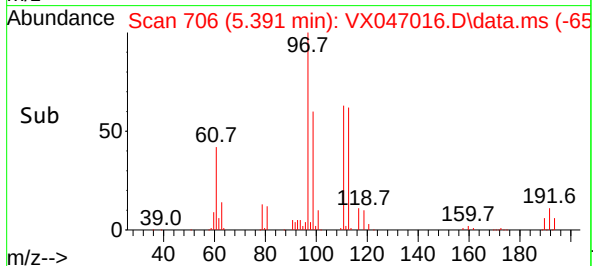
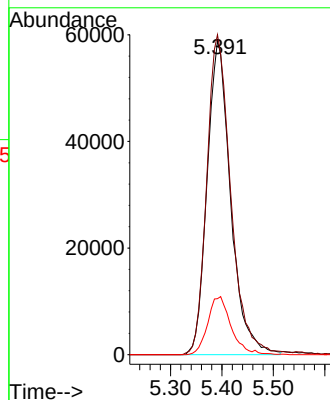
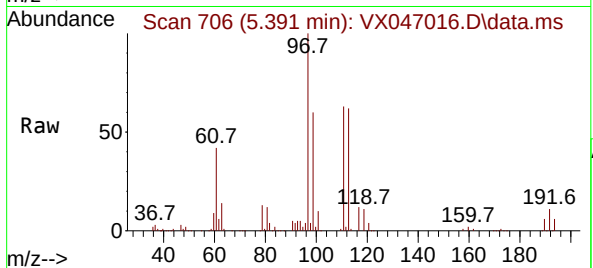
192 18.5 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#36

1,1-Dichloropropene

Concen: 46.963 ug/l

RT: 5.696 min Scan# 756

Delta R.T. -0.006 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

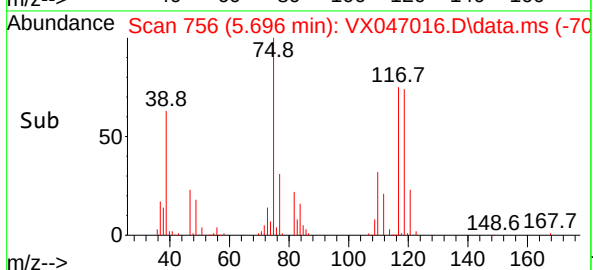
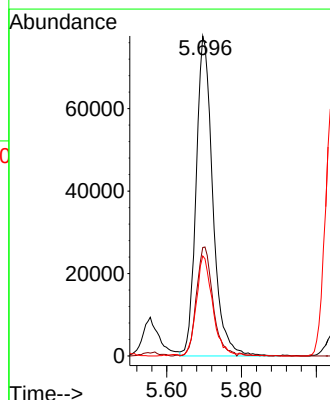
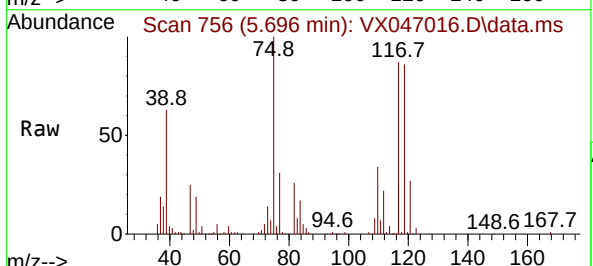
Tgt Ion: 75 Resp: 239871

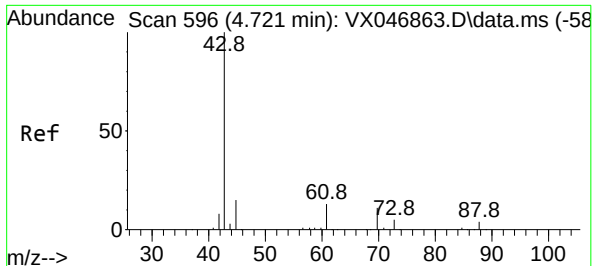
Ion Ratio Lower Upper

75 100

110 33.8 17.3 51.9

77 30.8 24.2 36.4





#37

Ethyl Acetate

Concen: 55.256 ug/l

RT: 4.721 min Scan# 596

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 240378

Ion Ratio Lower Upper

43 100

61 12.2 9.7 14.5

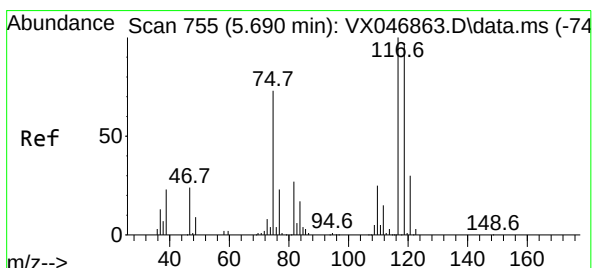
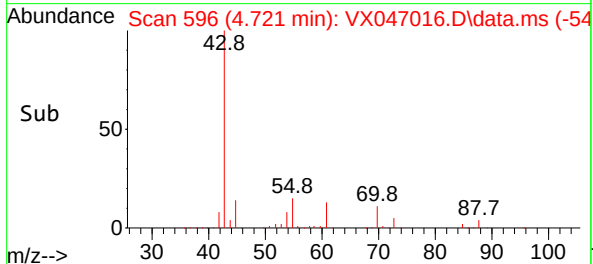
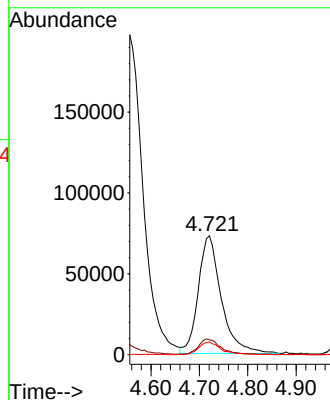
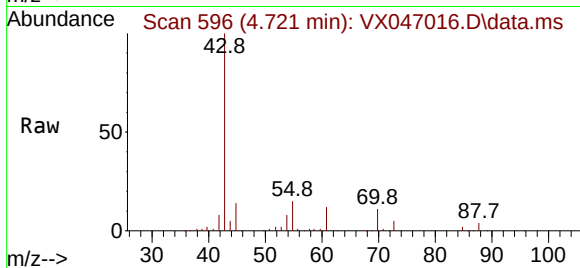
70 10.6 8.3 12.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#38

Carbon Tetrachloride

Concen: 48.373 ug/l

RT: 5.678 min Scan# 753

Delta R.T. -0.012 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

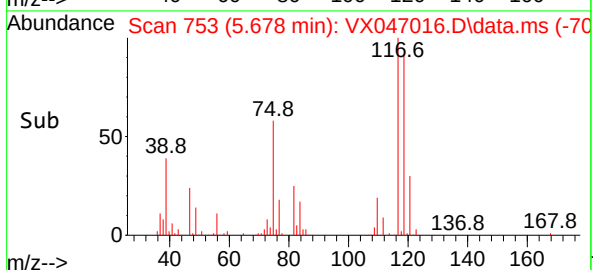
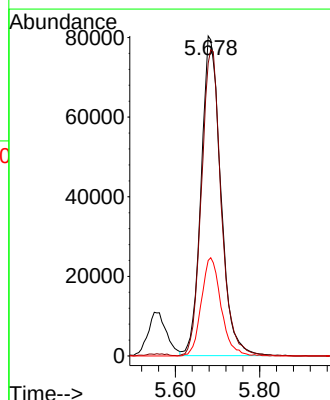
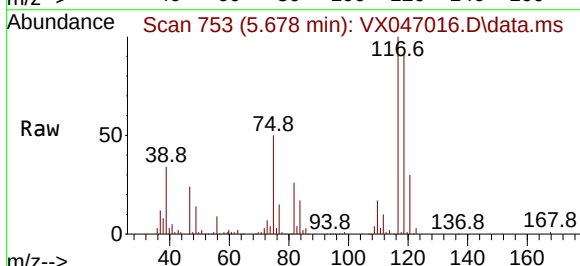
Tgt Ion:117 Resp: 261207

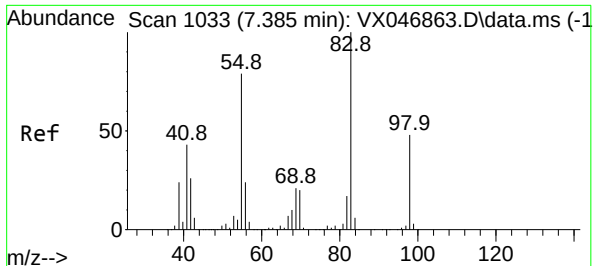
Ion Ratio Lower Upper

117 100

119 91.3 76.6 114.8

121 29.9 24.1 36.1





#39

Methylcyclohexane

Concen: 44.378 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 28353

Ion Ratio Lower Upper

83 100

55 79.6 63.0 94.4

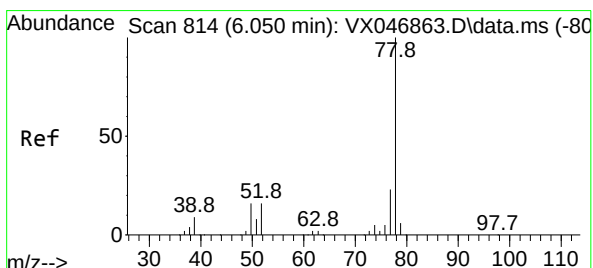
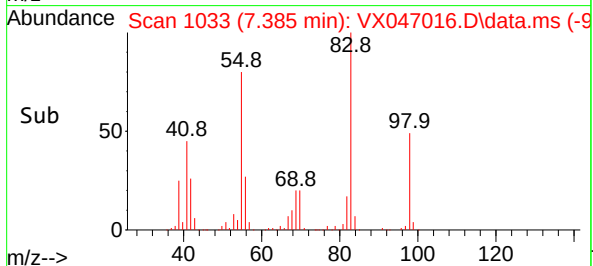
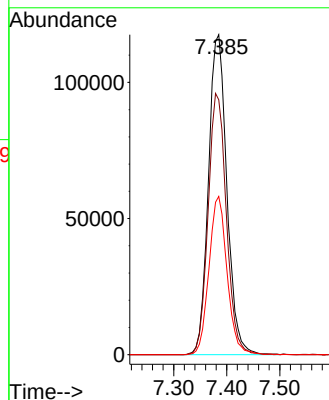
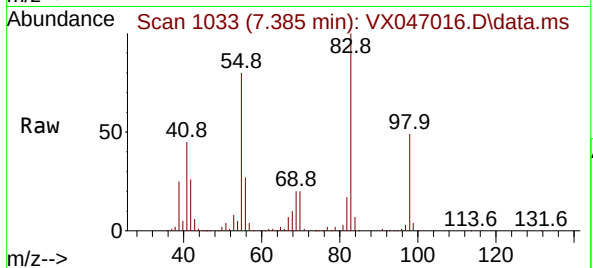
98 49.5 38.5 57.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#40

Benzene

Concen: 48.186 ug/l

RT: 6.044 min Scan# 813

Delta R.T. -0.006 min

Lab File: VX047016.D

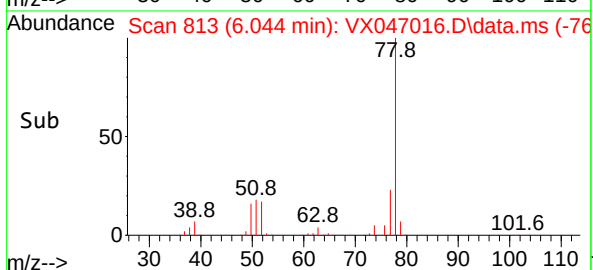
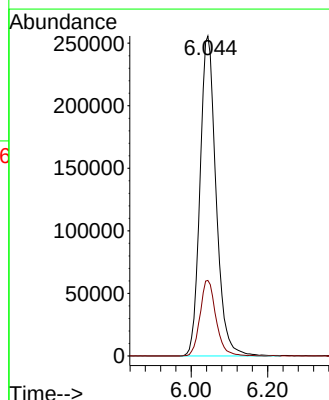
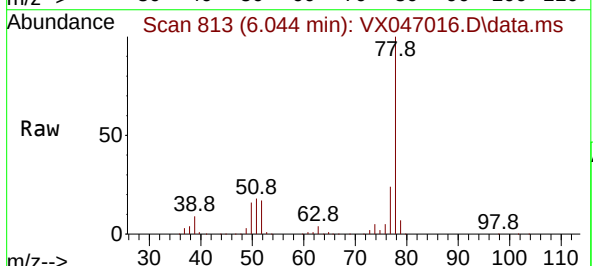
Acq: 16 Jul 2025 09:26

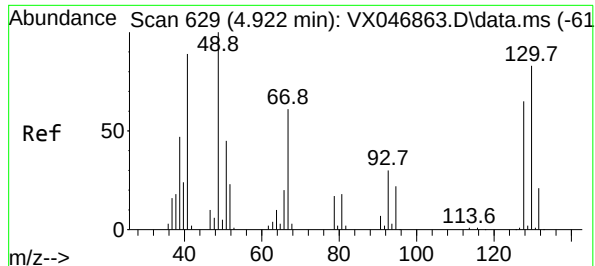
Tgt Ion: 78 Resp: 744412

Ion Ratio Lower Upper

78 100

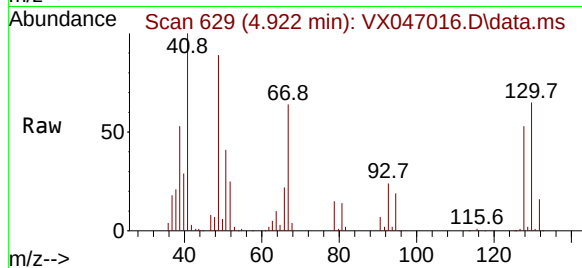
77 23.6 18.7 28.1





#41
Methacrylonitrile
Concen: 63.189 ug/l
RT: 4.922 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

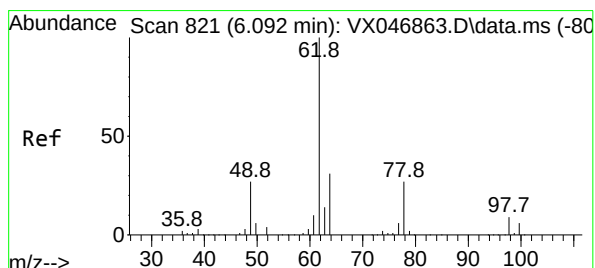
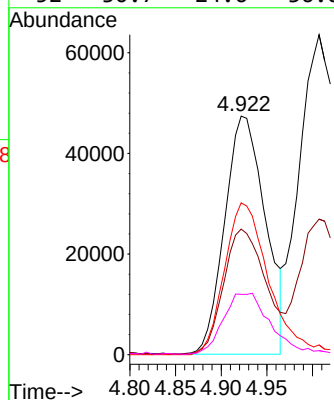
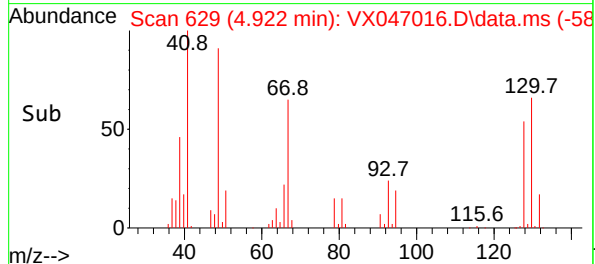
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 41 Resp: 146638
Ion Ratio Lower Upper
41 100
39 55.7 43.0 64.4
67 70.4 60.2 90.2
52 30.7 24.6 36.8

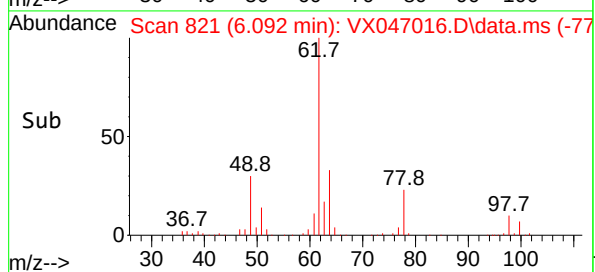
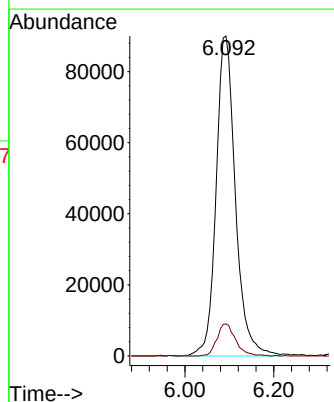
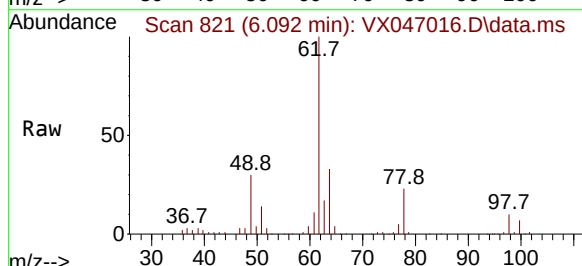
Manual Integrations
APPROVED

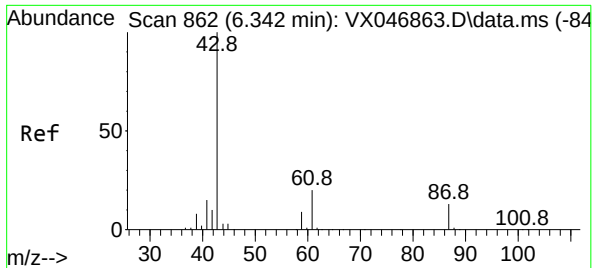
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#42
1,2-Dichloroethane
Concen: 51.606 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Tgt Ion: 62 Resp: 270721
Ion Ratio Lower Upper
62 100
98 9.7 0.0 19.4





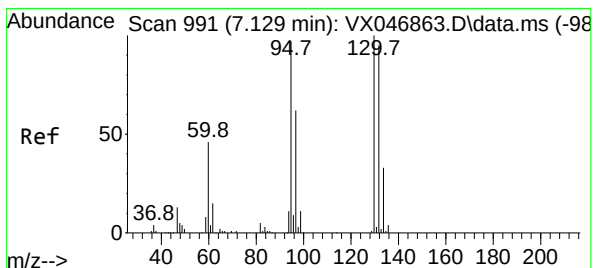
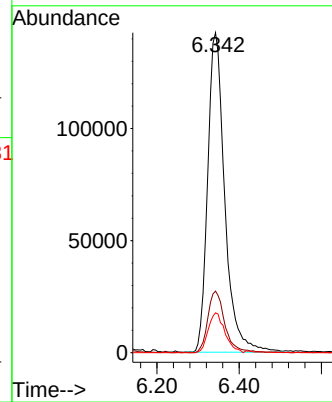
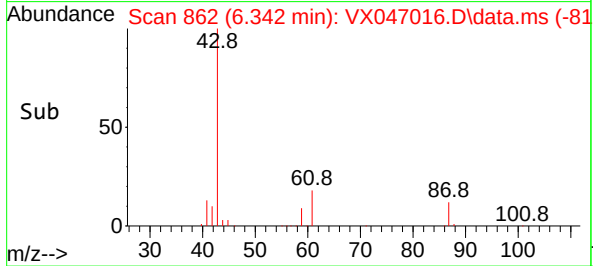
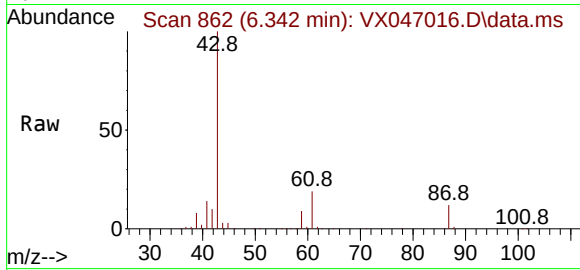
#43
Isopropyl Acetate
Concen: 61.803 ug/l
RT: 6.342 min Scan# 862
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 41180
Ion Ratio Lower Upper
43 100
61 19.2 15.7 23.5
87 12.1 10.1 15.1

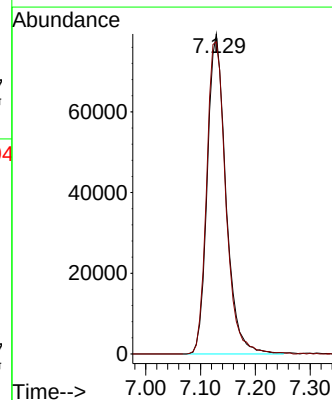
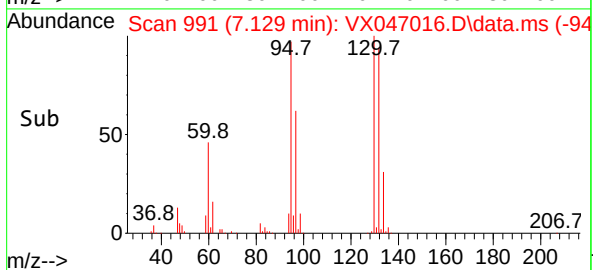
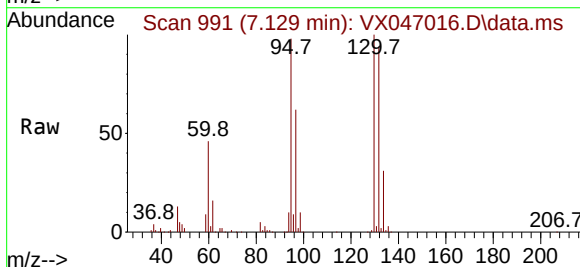
Manual Integrations
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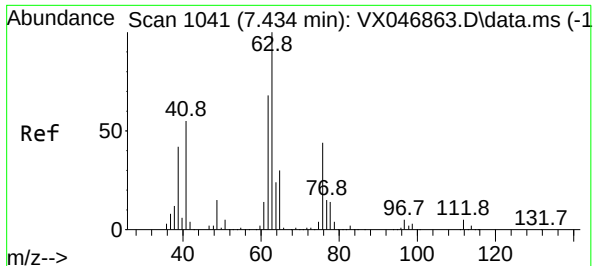
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#44
Trichloroethene
Concen: 46.385 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Tgt Ion:130 Resp: 186538
Ion Ratio Lower Upper
130 100
95 97.5 0.0 194.2





#45

1,2-Dichloropropane

Concen: 50.335 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 19646

Ion Ratio Lower Upper

63 100

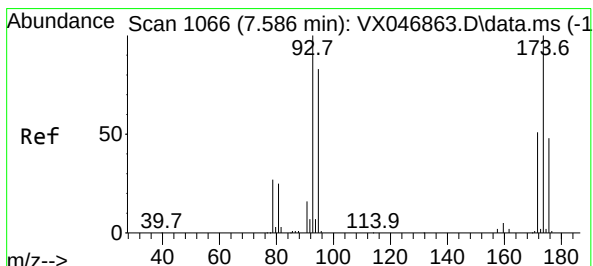
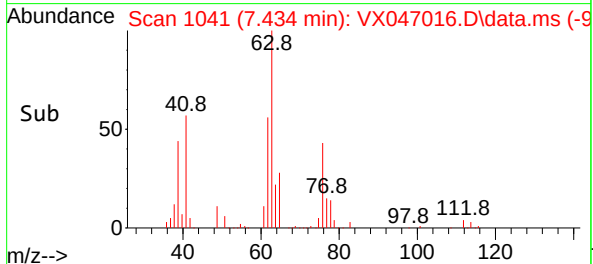
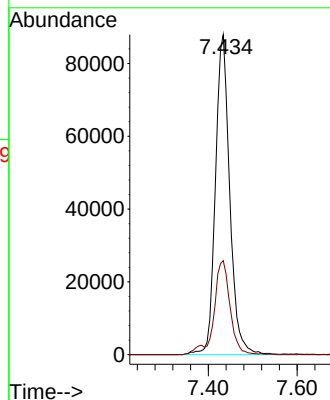
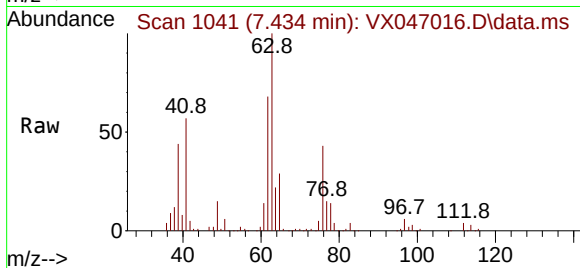
65 29.4 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#46

Dibromomethane

Concen: 50.790 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.006 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

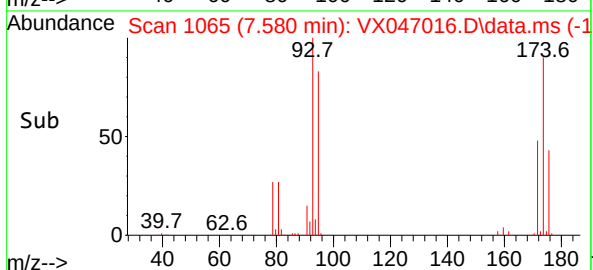
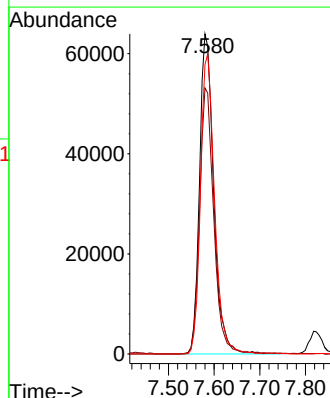
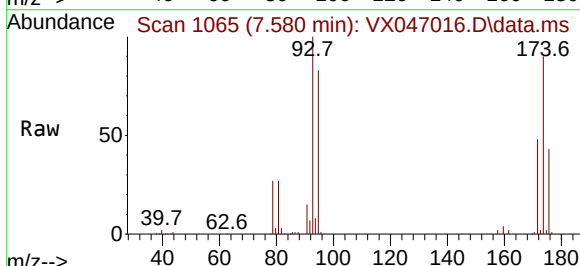
Tgt Ion: 93 Resp: 137353

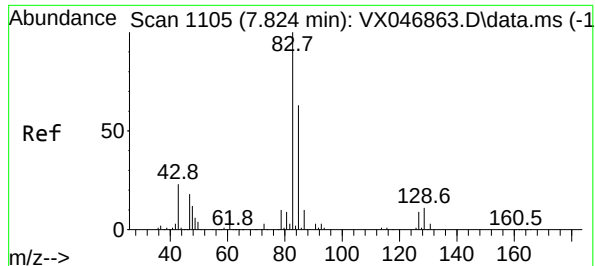
Ion Ratio Lower Upper

93 100

95 82.8 66.6 99.8

174 93.2 77.4 116.2





#47

Bromodichloromethane

Concen: 50.006 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

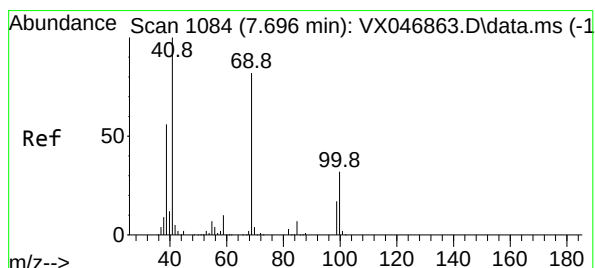
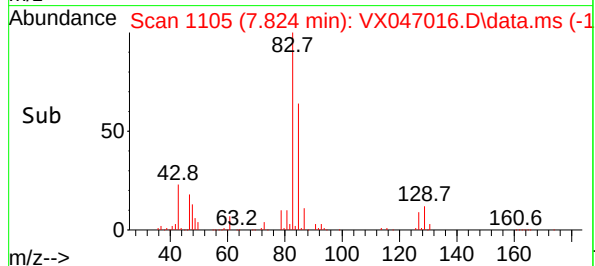
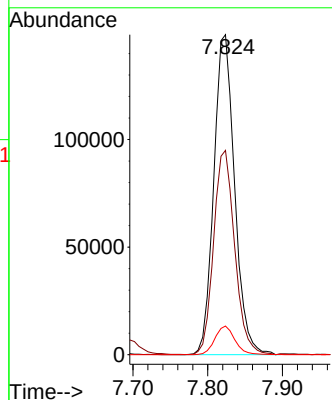
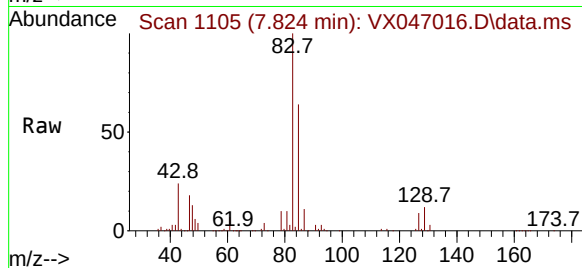
VSTDCCC050

Tgt Ion:	83	Resp:	28875
Ion	Ratio	Lower	Upper
83	100		
85	62.4	50.2	75.4
127	8.8	7.1	10.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#48

Methyl methacrylate

Concen: 61.535 ug/l

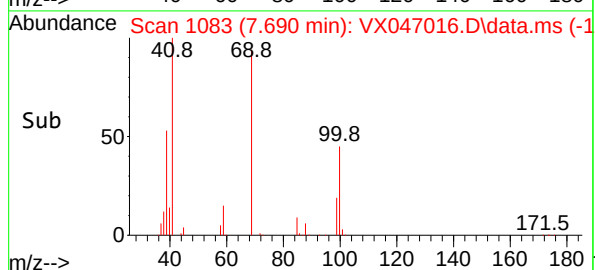
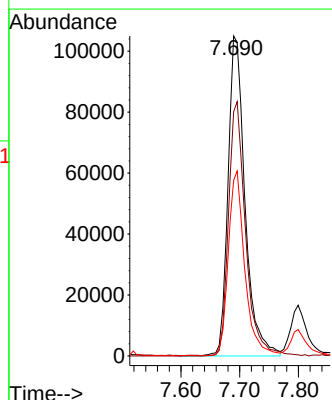
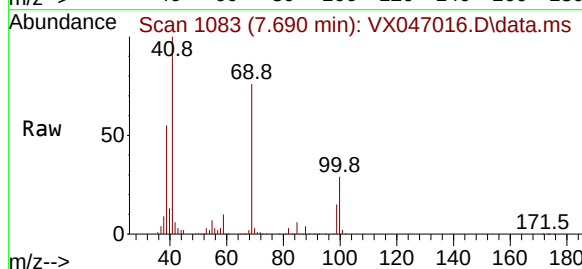
RT: 7.690 min Scan# 1083

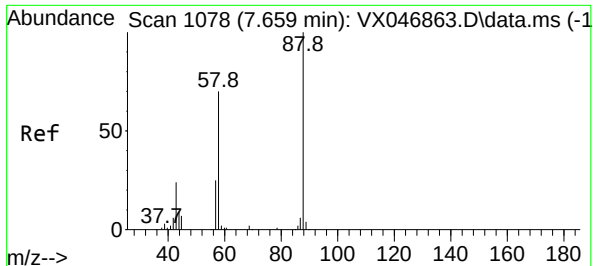
Delta R.T. -0.006 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Tgt Ion:	41	Resp:	211715
Ion	Ratio	Lower	Upper
41	100		
69	79.6	65.8	98.8
39	55.8	43.8	65.6





#49

1,4-Dioxane

Concen: 1339.175 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 5338

Ion Ratio Lower Upper

88 100

43 40.1 31.7 47.5

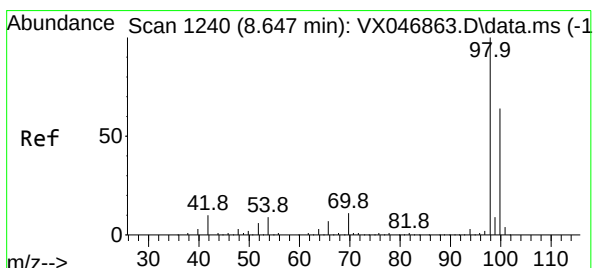
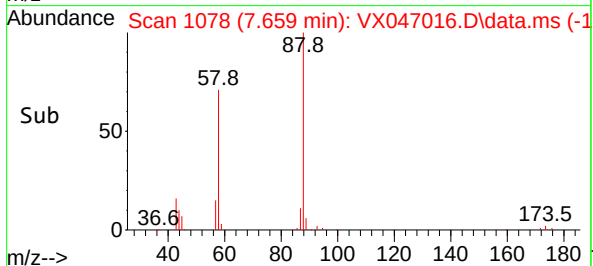
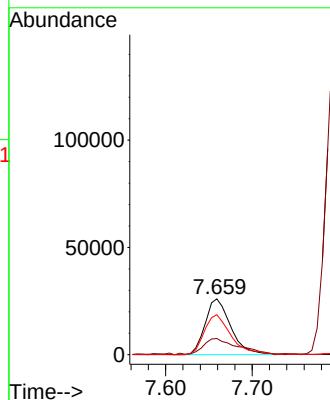
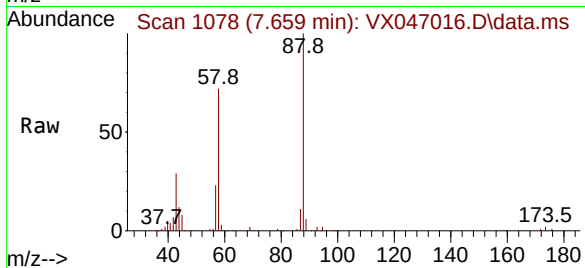
58 74.6 57.5 86.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#50

Toluene-d8

Concen: 46.747 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX047016.D

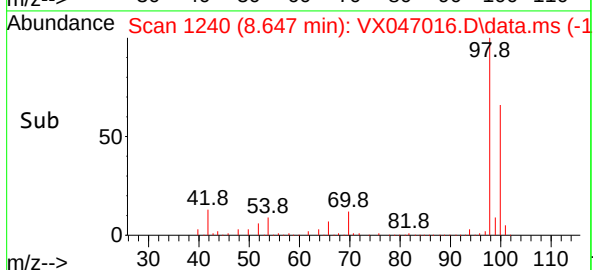
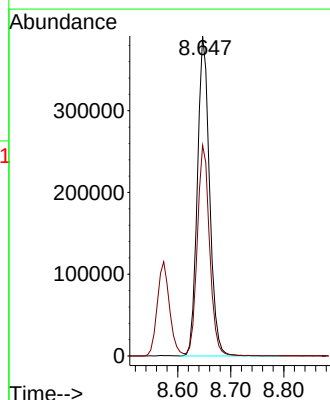
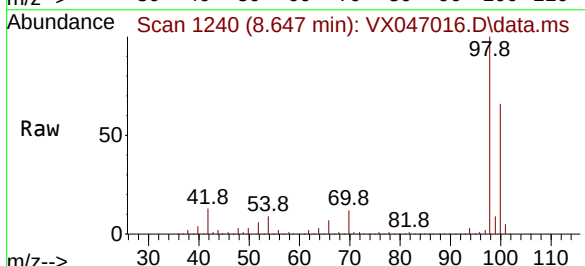
Acq: 16 Jul 2025 09:26

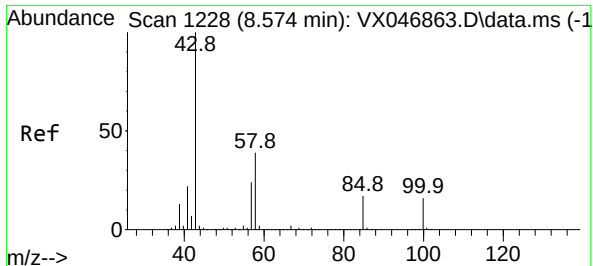
Tgt Ion: 98 Resp: 624373

Ion Ratio Lower Upper

98 100

100 66.3 53.0 79.6





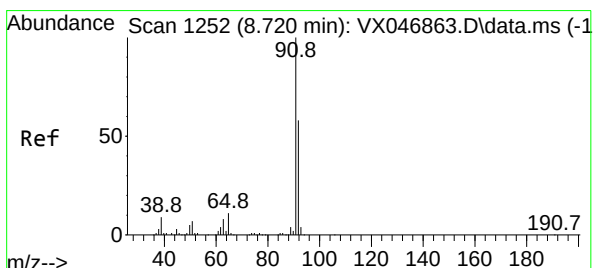
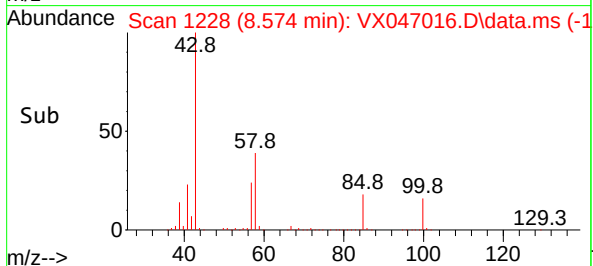
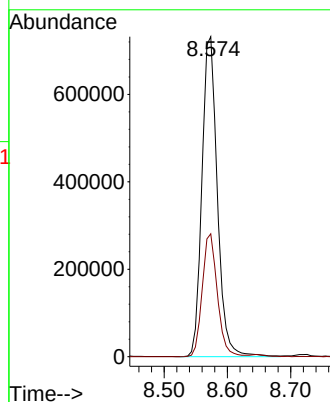
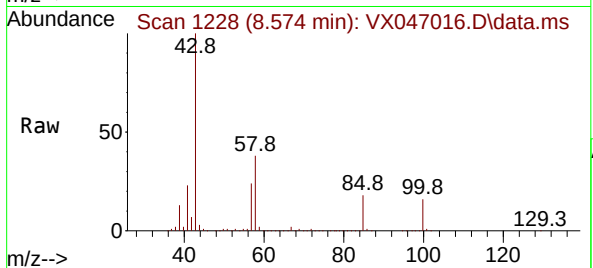
#51
4-Methyl-2-Pentanone
Concen: 316.598 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 124501
Ion Ratio Lower Upper
43 100
58 37.5 30.4 45.6

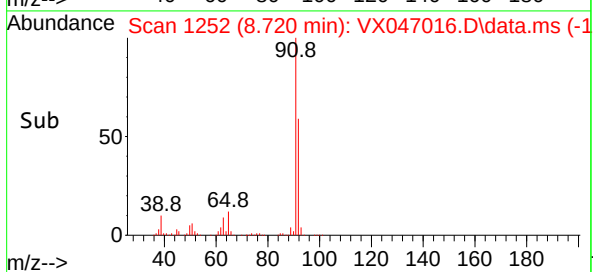
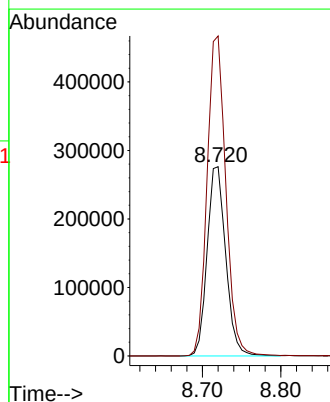
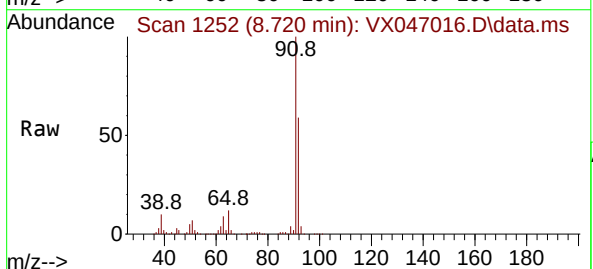
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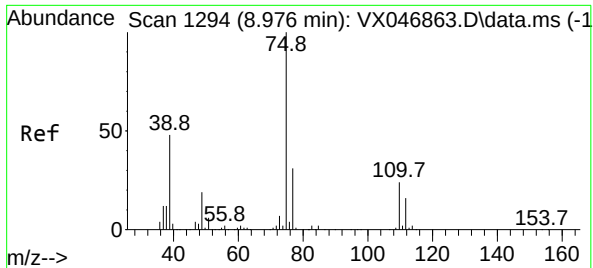
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#52
Toluene
Concen: 47.521 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Tgt Ion: 92 Resp: 454929
Ion Ratio Lower Upper
92 100
91 170.4 137.9 206.9





#53

t-1,3-Dichloropropene

Concen: 53.065 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 273460

Ion Ratio Lower Upper

75 100

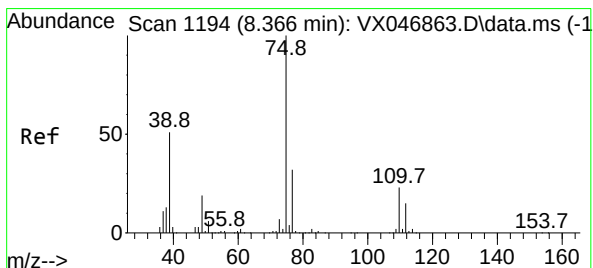
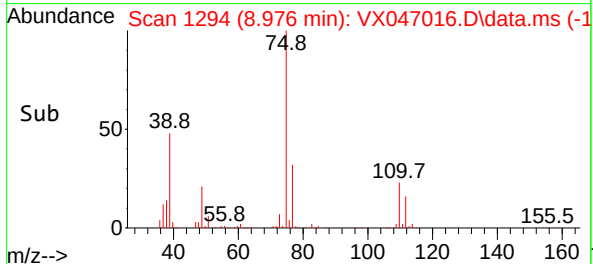
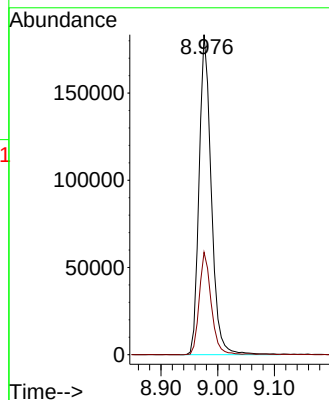
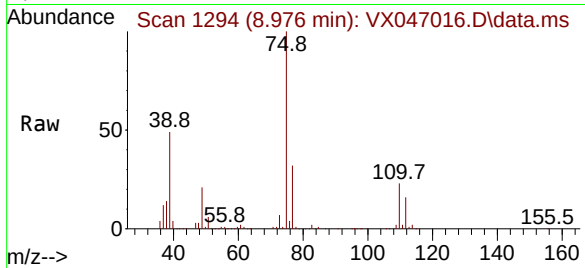
77 32.0 25.0 37.6

Manual Integrations

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Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#54

cis-1,3-Dichloropropene

Concen: 51.495 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

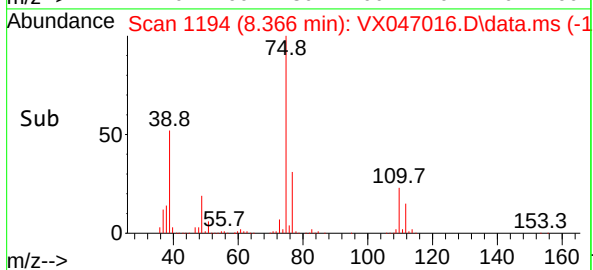
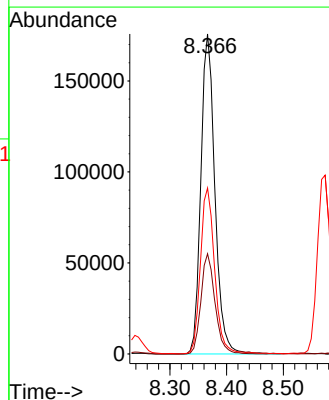
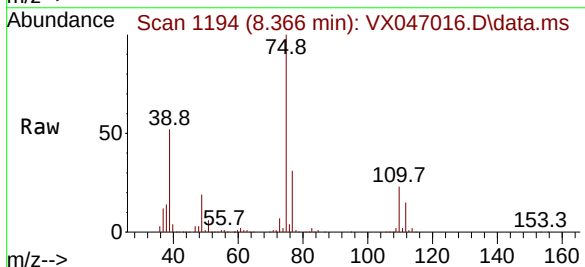
Tgt Ion: 75 Resp: 302907

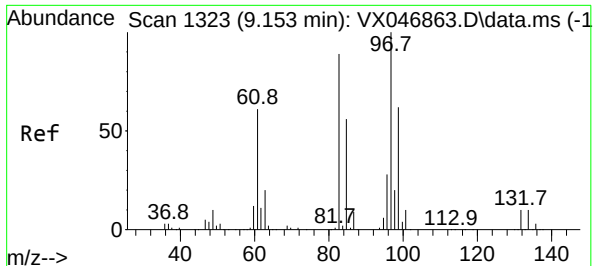
Ion Ratio Lower Upper

75 100

77 31.3 25.4 38.2

39 51.1 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 51.604 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 184000

Ion Ratio Lower Upper

97 100

83 88.6 70.9 106.3

85 56.1 44.6 67.0

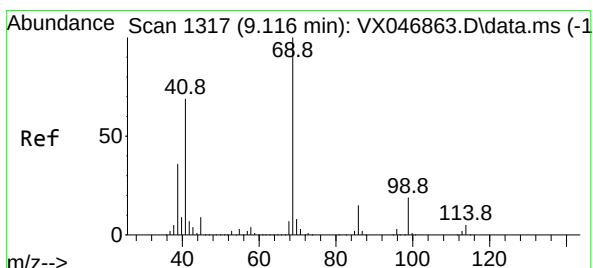
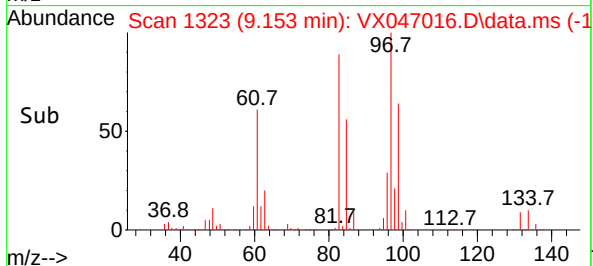
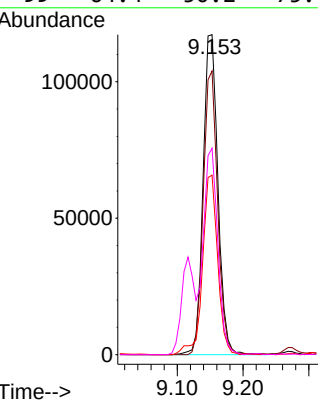
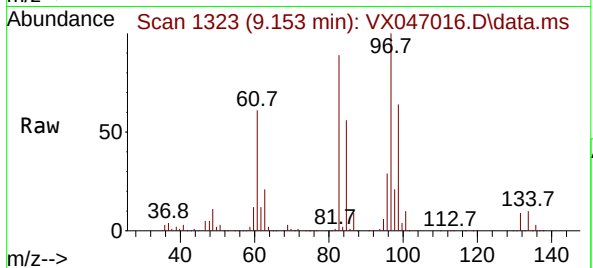
99 64.4 50.2 75.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#56

Ethyl methacrylate

Concen: 58.971 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

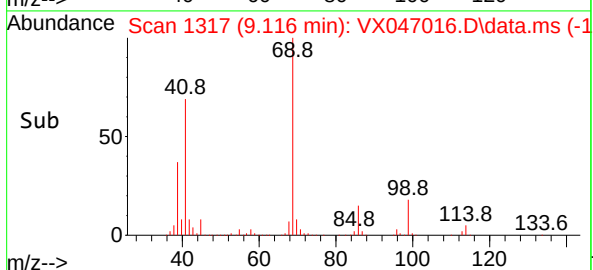
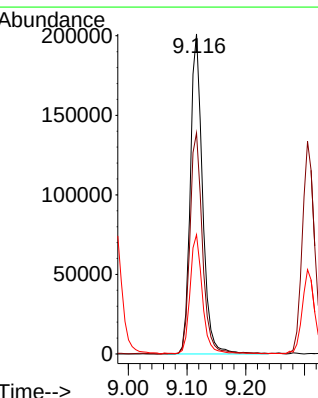
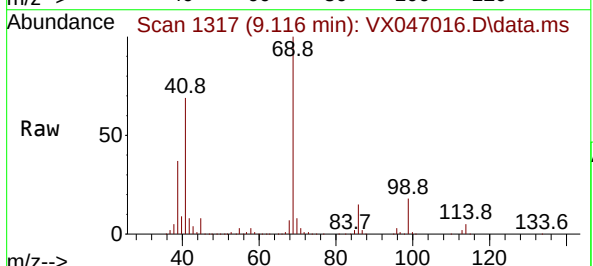
Tgt Ion: 69 Resp: 291041

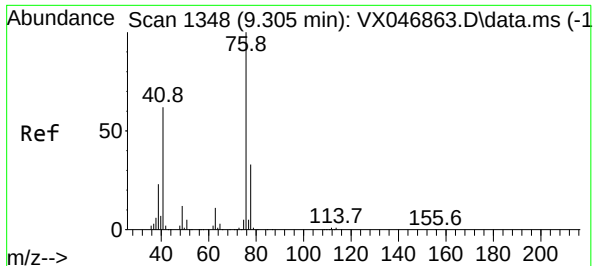
Ion Ratio Lower Upper

69 100

41 70.3 54.6 82.0

39 37.5 28.7 43.1





#57

1,3-Dichloropropane

Concen: 51.159 ug/l

RT: 9.305 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 31411

Ion Ratio Lower Upper

76 100

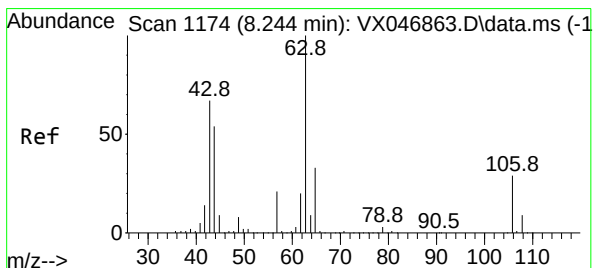
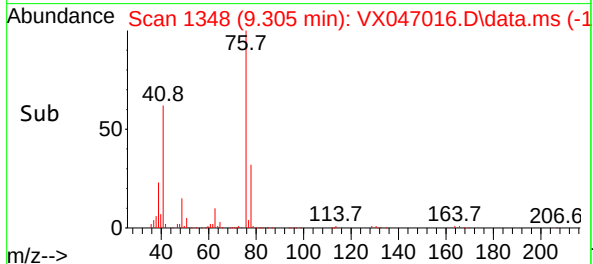
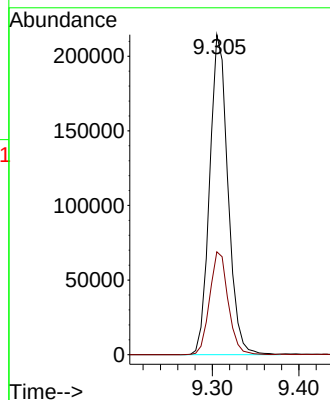
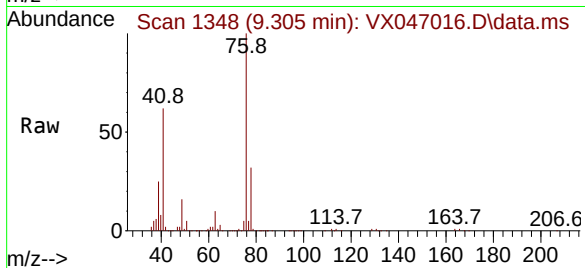
78 32.6 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#58

2-Chloroethyl Vinyl ether

Concen: 285.619 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.006 min

Lab File: VX047016.D

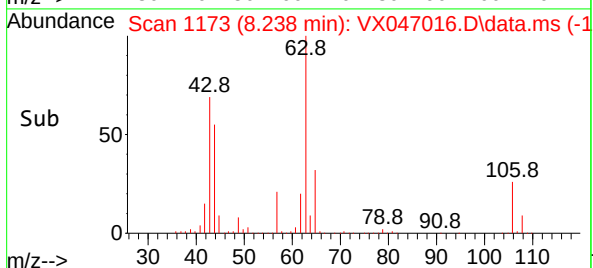
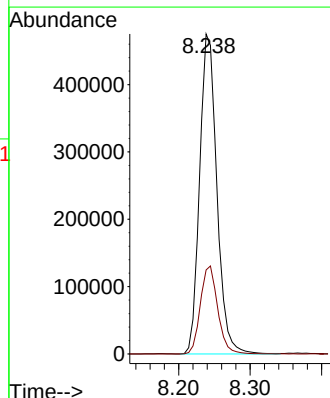
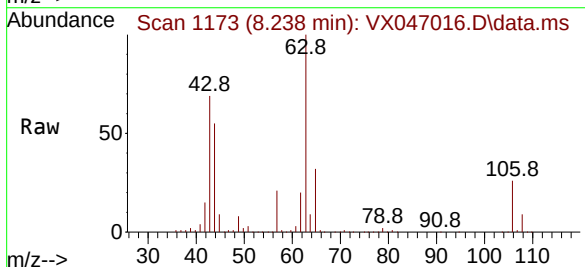
Acq: 16 Jul 2025 09:26

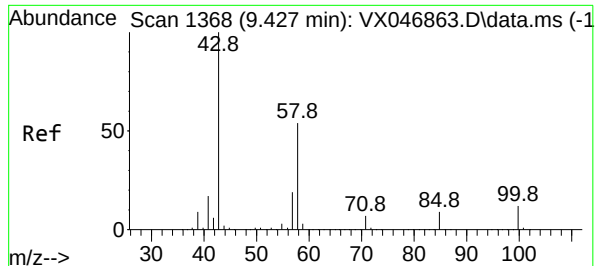
Tgt Ion: 63 Resp: 794246

Ion Ratio Lower Upper

63 100

106 27.7 22.6 33.8





#59

2-Hexanone

Concen: 326.601 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 851908

Ion Ratio Lower Upper

43 100

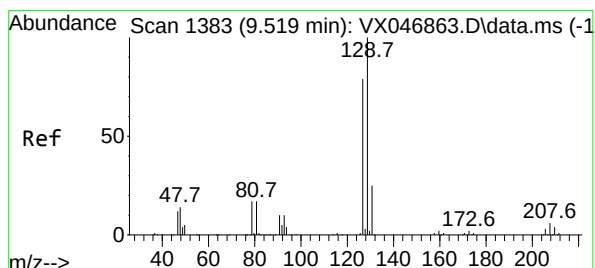
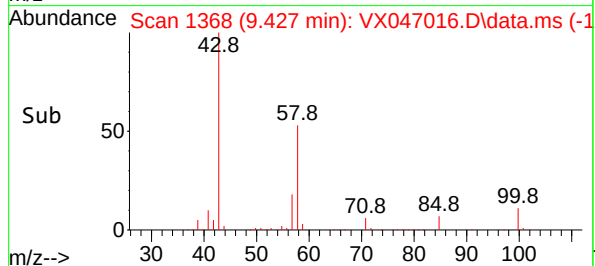
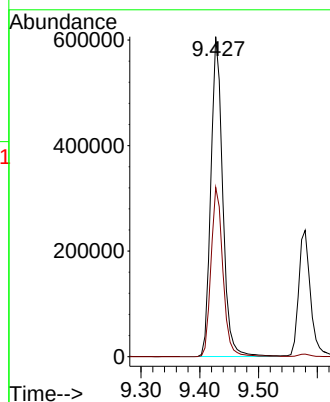
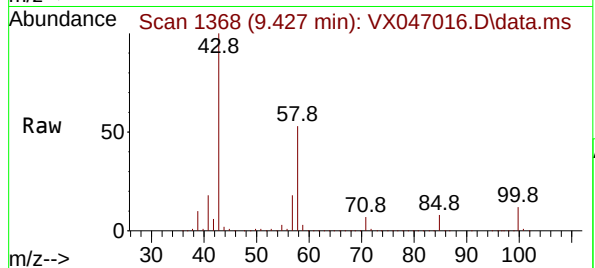
58 53.3 27.1 81.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#60

Dibromochloromethane

Concen: 49.909 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX047016.D

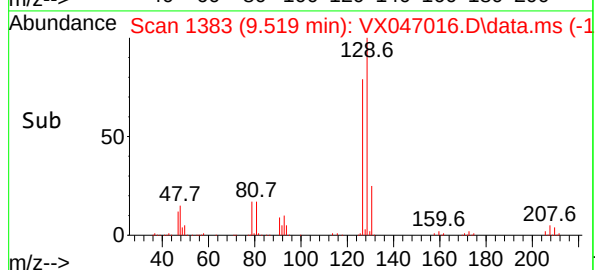
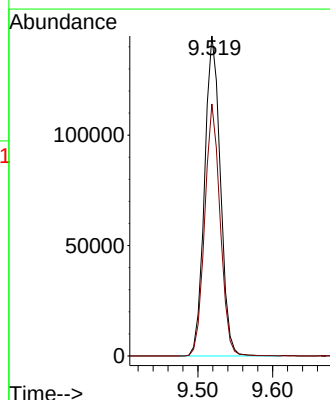
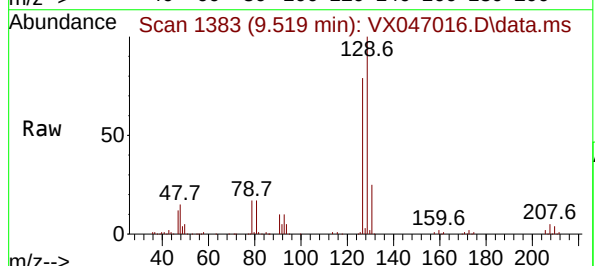
Acq: 16 Jul 2025 09:26

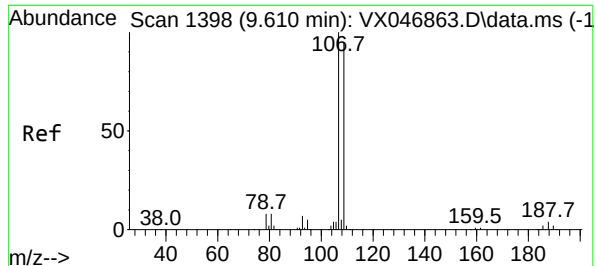
Tgt Ion:129 Resp: 212976

Ion Ratio Lower Upper

129 100

127 76.8 39.1 117.5





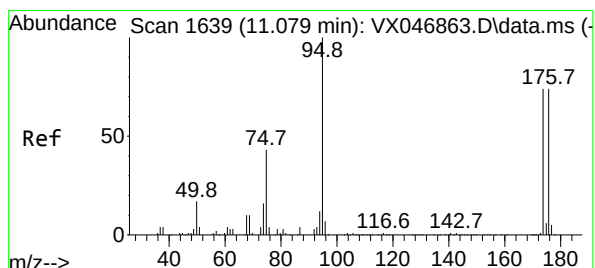
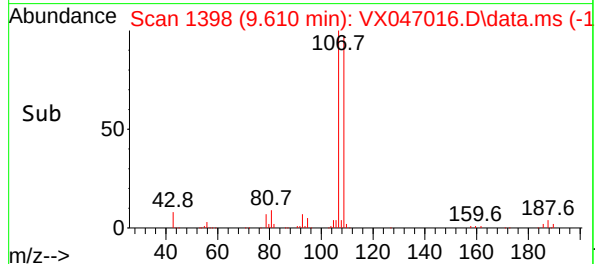
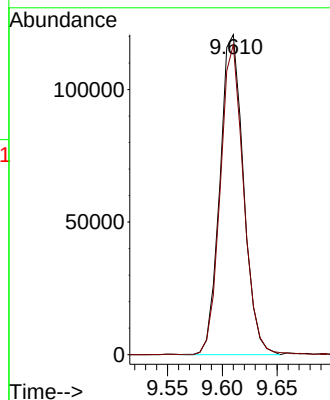
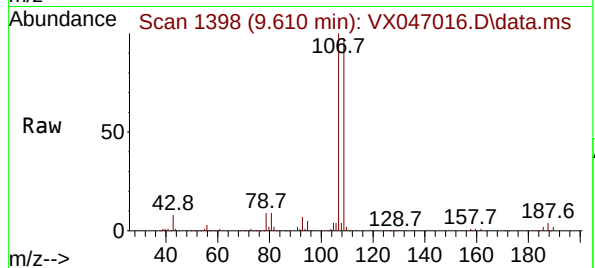
#61
1,2-Dibromoethane
Concen: 50.601 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 181210
Ion Ratio Lower Upper
107 100
109 95.6 75.4 113.2

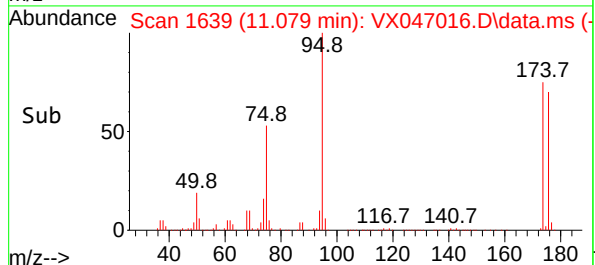
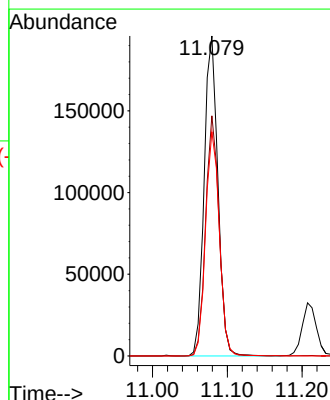
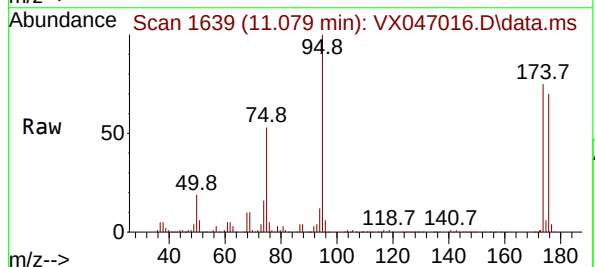
Manual Integrations
APPROVED

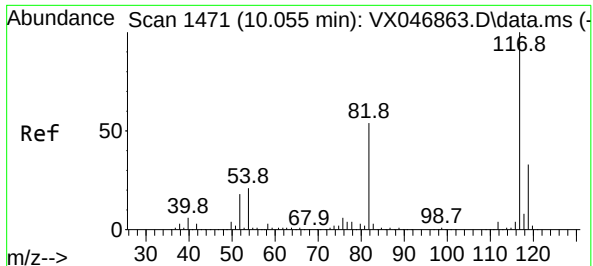
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#62
4-Bromofluorobenzene
Concen: 49.215 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

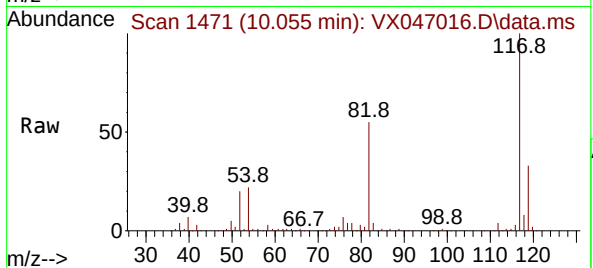
Tgt Ion: 95 Resp: 249828
Ion Ratio Lower Upper
95 100
174 73.7 0.0 152.0
176 70.7 0.0 145.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

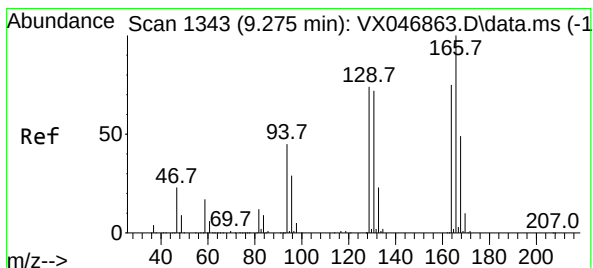
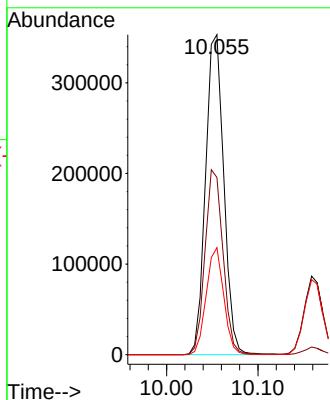
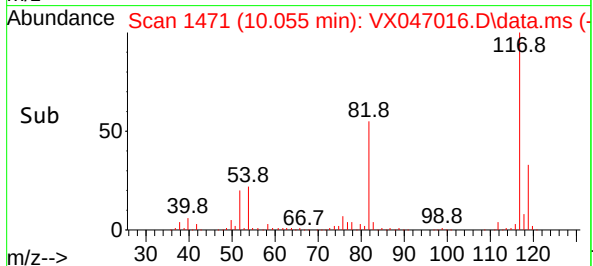
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:117 Resp: 48955
Ion Ratio Lower Upper
117 100
82 55.4 43.3 64.9
119 33.4 26.4 39.6

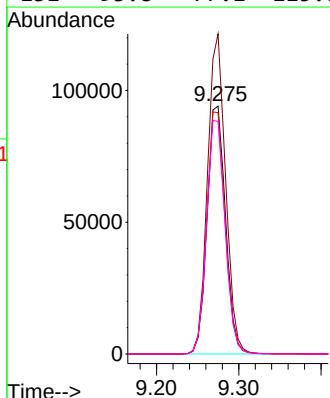
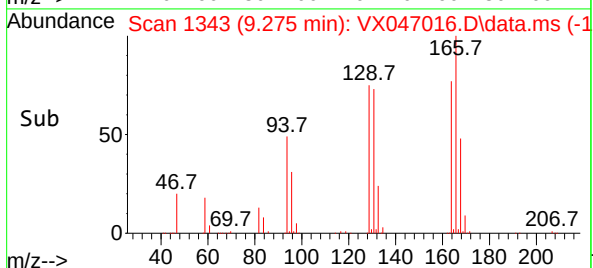
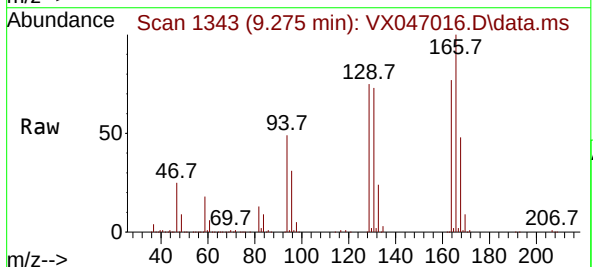
Manual Integrations
APPROVED

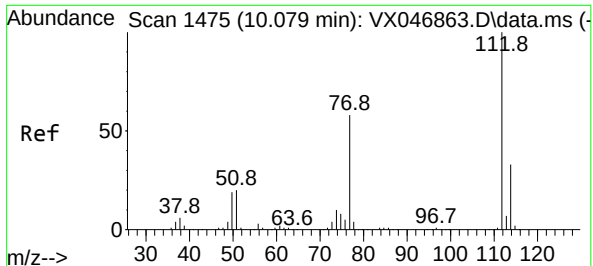
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#64
Tetrachloroethene
Concen: 44.753 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Tgt Ion:164 Resp: 145870
Ion Ratio Lower Upper
164 100
166 129.1 107.0 160.6
129 97.3 79.7 119.5
131 93.8 77.1 115.7





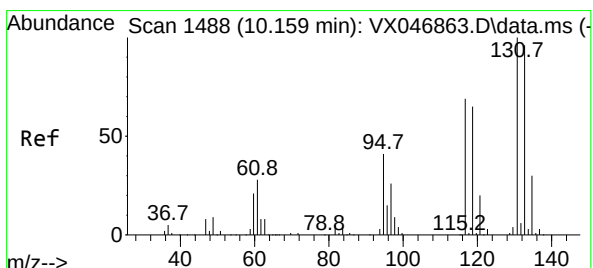
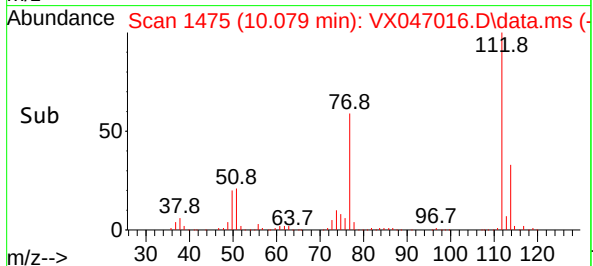
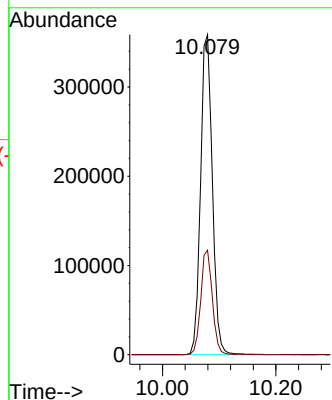
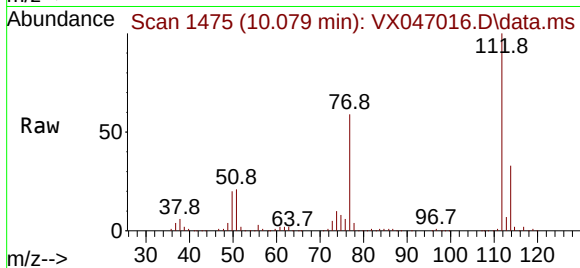
#65
Chlorobenzene
Concen: 48.766 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 516158
Ion Ratio Lower Upper
112 100
114 32.6 26.3 39.5

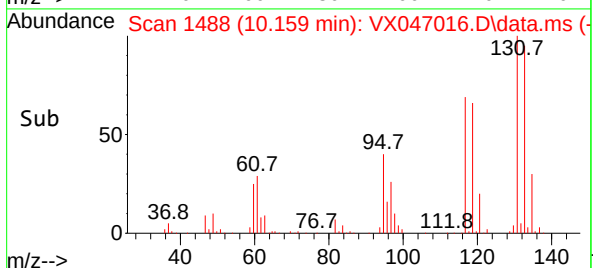
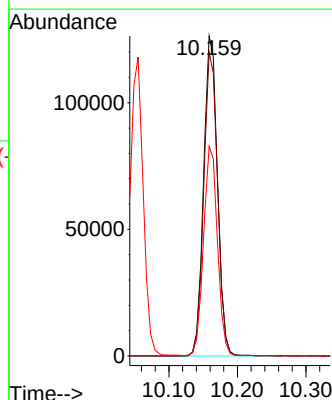
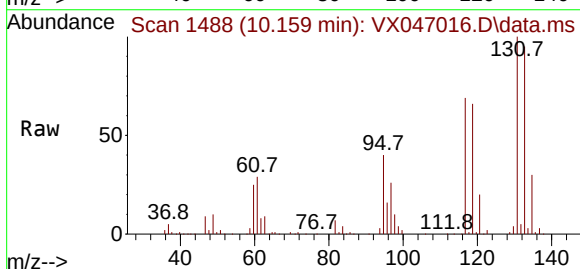
Manual Integrations
APPROVED

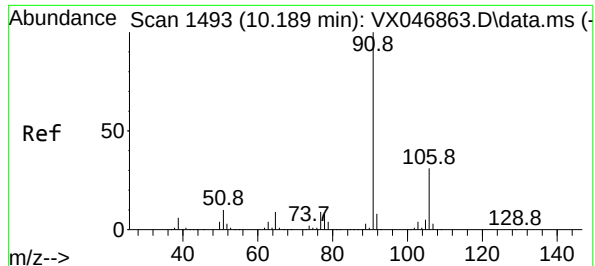
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 50.070 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Tgt Ion:131 Resp: 178154
Ion Ratio Lower Upper
131 100
133 94.9 47.6 142.9
119 65.7 32.4 97.2





#67

Ethyl Benzene

Concen: 49.296 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 89353

Ion Ratio Lower Upper

91 100

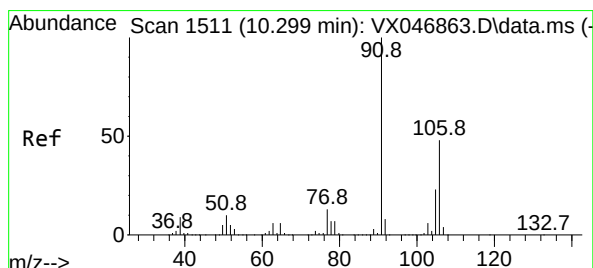
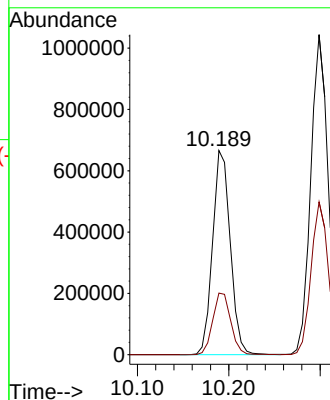
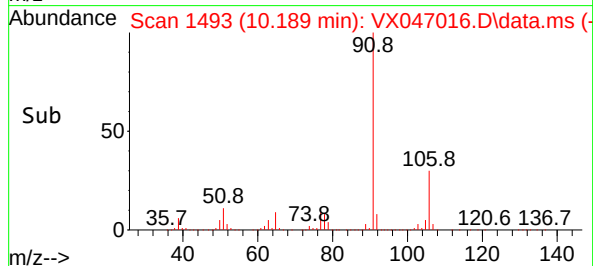
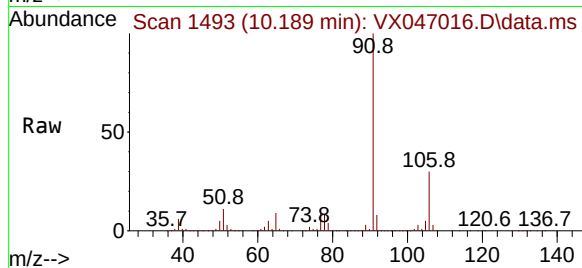
106 30.1 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#68

m/p-Xylenes

Concen: 96.627 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX047016.D

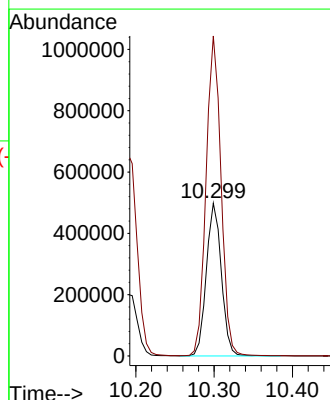
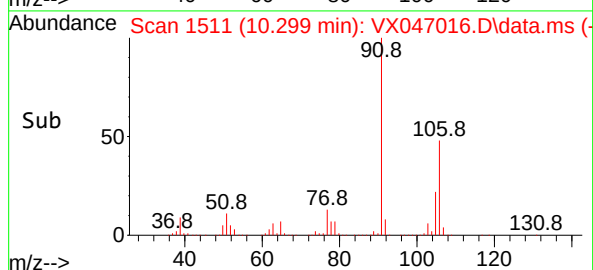
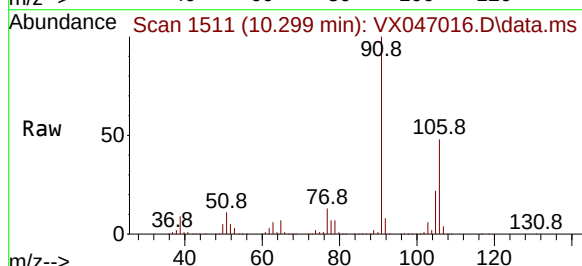
Acq: 16 Jul 2025 09:26

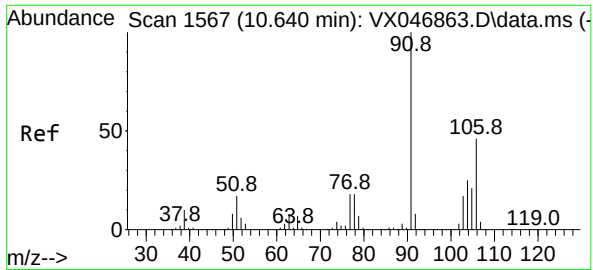
Tgt Ion:106 Resp: 659982

Ion Ratio Lower Upper

106 100

91 209.7 164.6 246.8





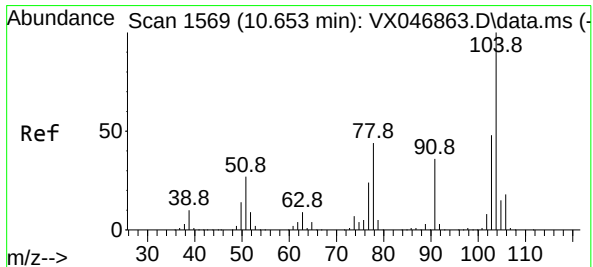
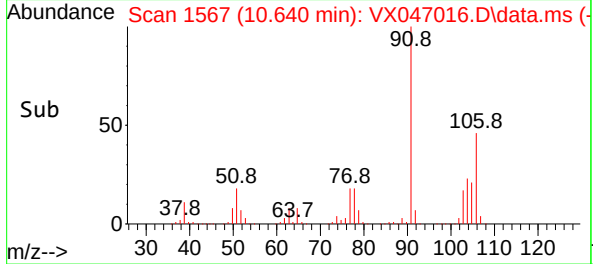
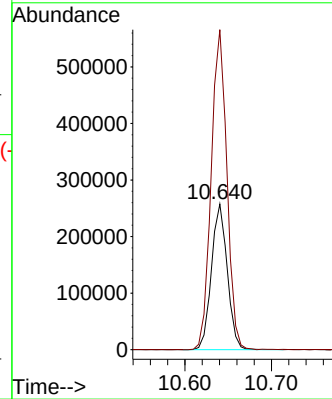
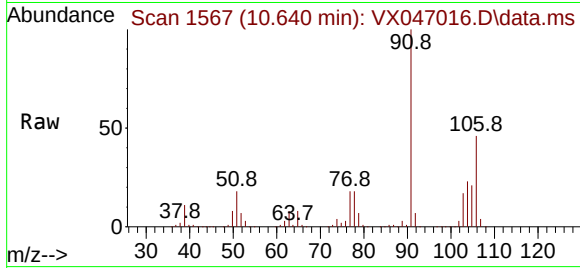
#69
o-Xylene
Concen: 49.506 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 326625
Ion Ratio Lower Upper
106 100
91 218.3 109.5 328.5

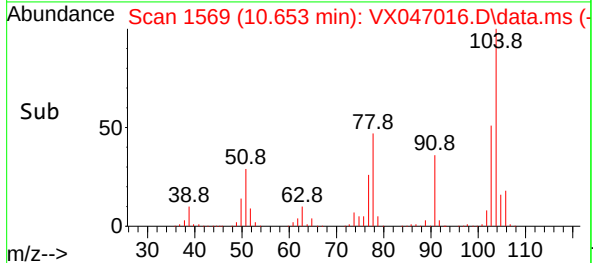
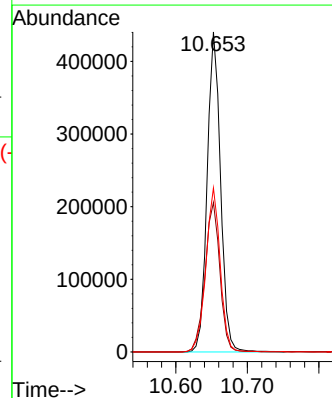
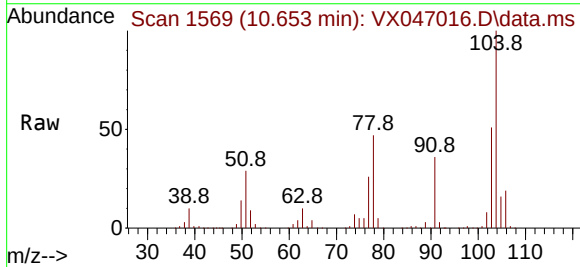
Manual Integrations
APPROVED

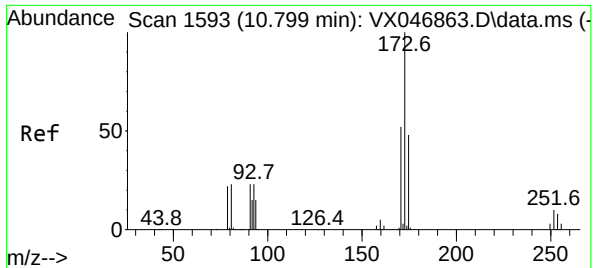
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#70
Styrene
Concen: 50.765 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

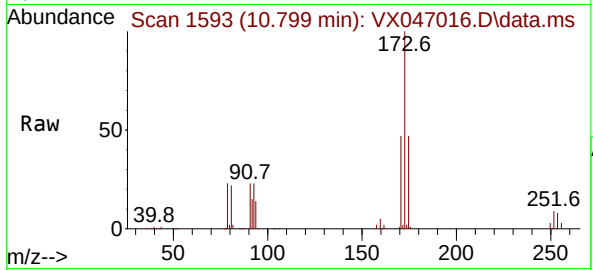
Tgt Ion:104 Resp: 573036
Ion Ratio Lower Upper
104 100
78 52.1 40.3 60.5
103 54.9 42.8 64.2





#71
Bromoform
Concen: 51.994 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

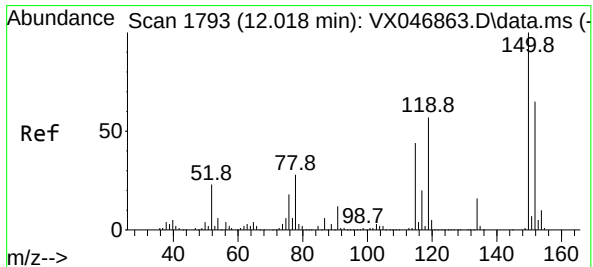
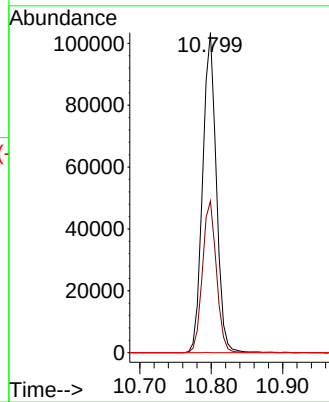
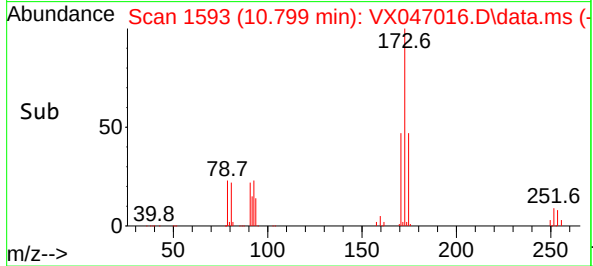
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



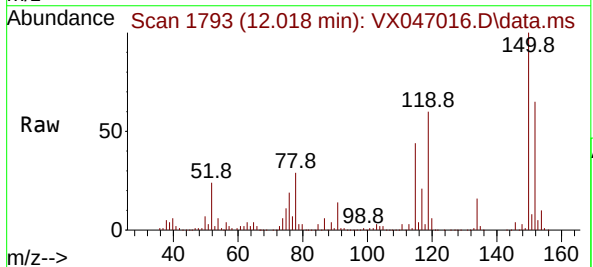
Tgt Ion:173 Resp: 137554
Ion Ratio Lower Upper
173 100
175 48.4 23.8 71.5
254 0.0 0.1 0.1

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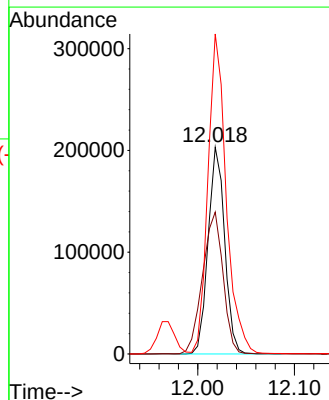
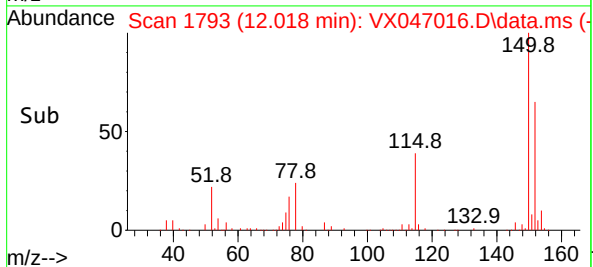
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

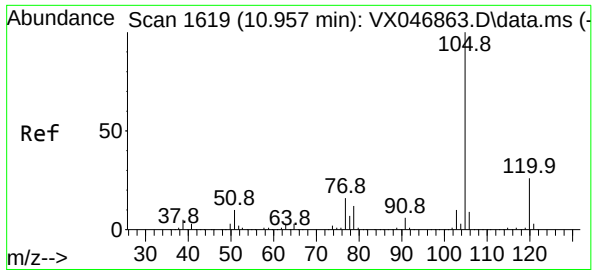


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26



Tgt Ion:152 Resp: 242580
Ion Ratio Lower Upper
152 100
115 84.6 42.4 127.1
150 170.7 0.0 349.2





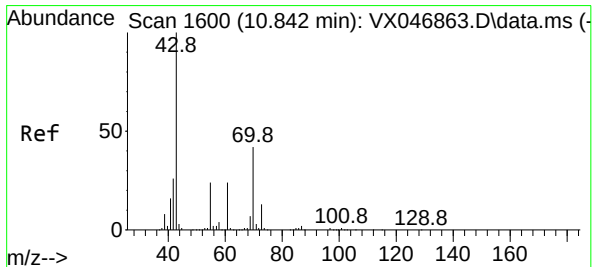
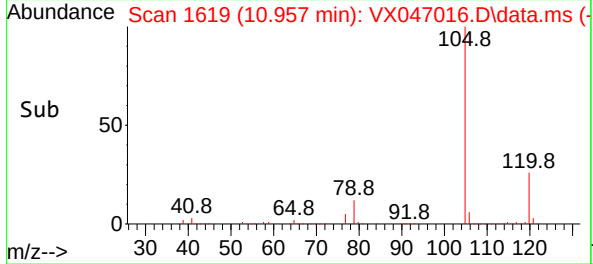
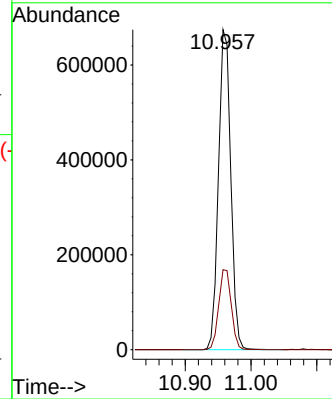
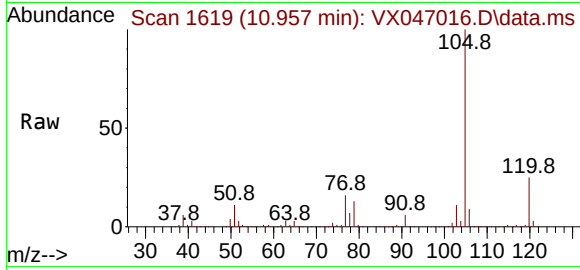
#73
Isopropylbenzene
Concen: 51.445 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 877270
Ion Ratio Lower Upper
105 100
120 25.6 13.2 39.5

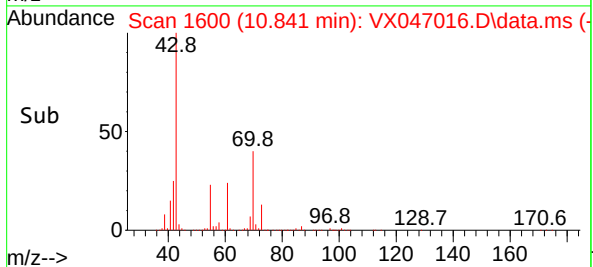
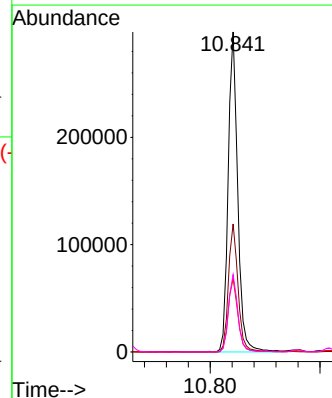
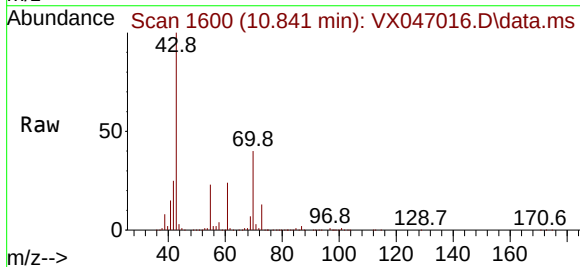
Manual Integrations
APPROVED

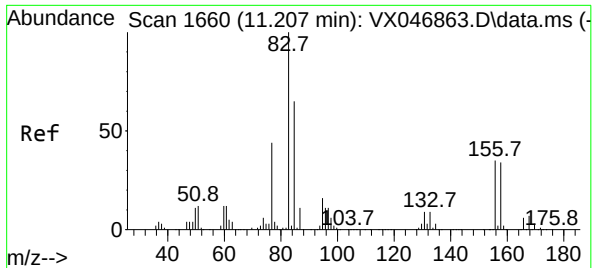
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#74
N-ethyl acetate
Concen: 62.627 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Tgt Ion: 43 Resp: 362904
Ion Ratio Lower Upper
43 100
70 40.4 33.4 50.2
55 23.3 19.6 29.4
61 23.9 18.9 28.3





#75

1,1,2,2-Tetrachloroethane

Concen: 55.985 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 262510

Ion Ratio Lower Upper

83 100

131 10.1 5.0 14.9

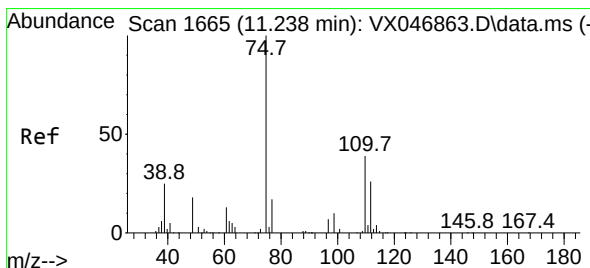
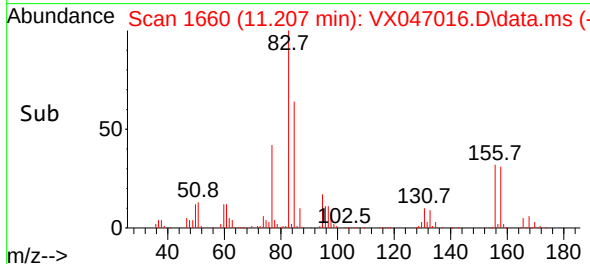
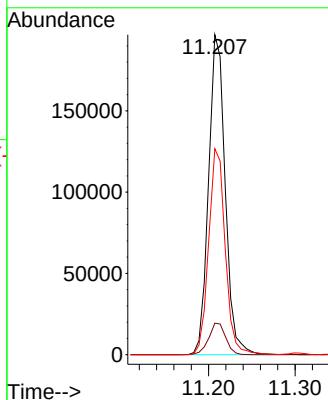
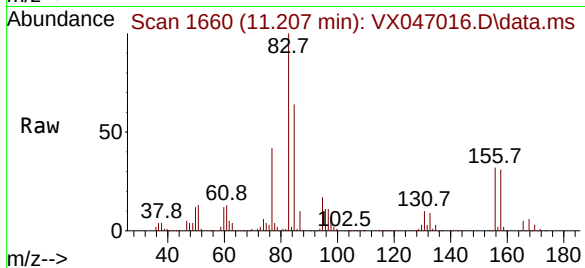
85 64.1 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#76

1,2,3-Trichloropropane

Concen: 57.136 ug/l m

RT: 11.238 min Scan# 1665

Delta R.T. -0.000 min

Lab File: VX047016.D

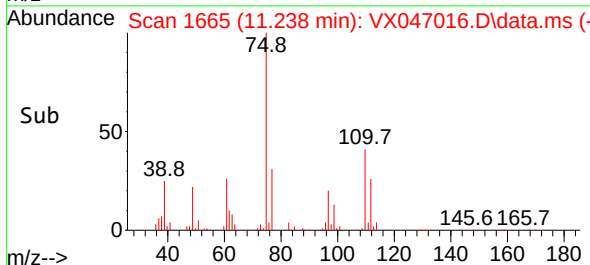
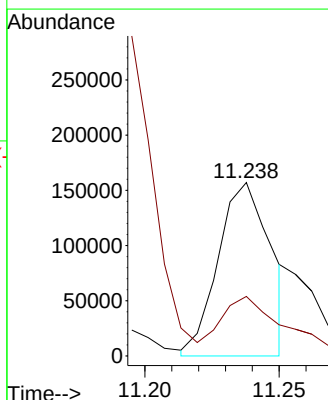
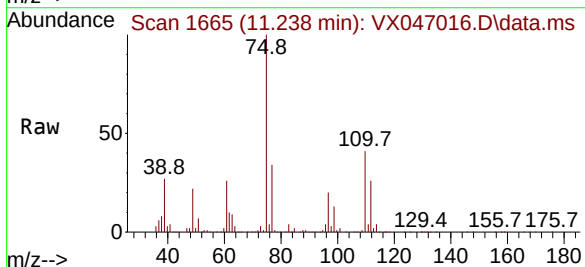
Acq: 16 Jul 2025 09:26

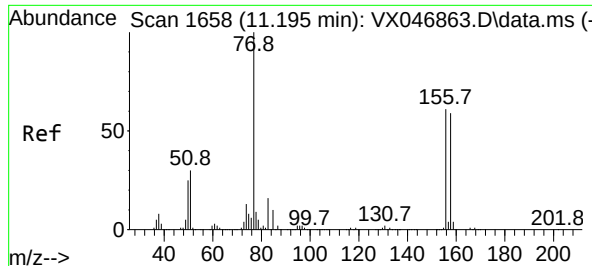
Tgt Ion: 75 Resp: 214158

Ion Ratio Lower Upper

75 100

77 42.7 20.6 61.8





#77

Bromobenzene

Concen: 49.376 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:156 Resp: 20972

Ion Ratio Lower Upper

156 100

77 173.3 82.3 247.0

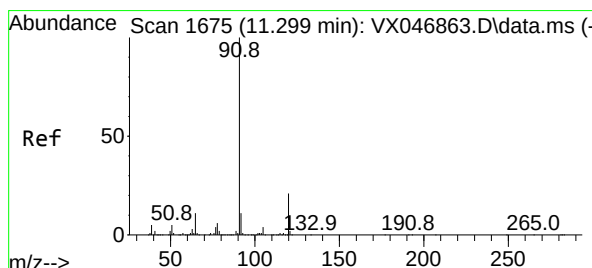
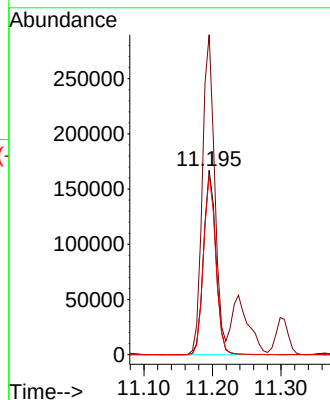
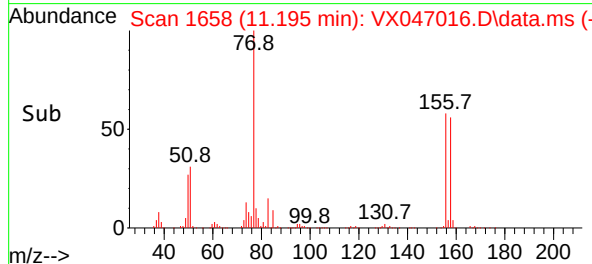
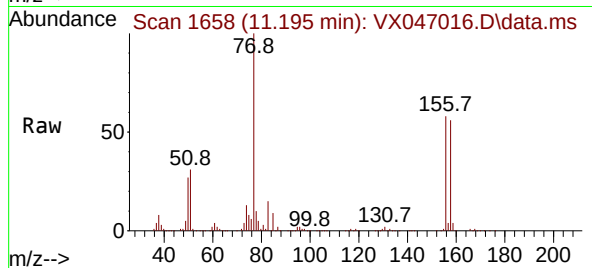
158 96.9 47.5 142.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#78

n-propylbenzene

Concen: 50.156 ug/l

RT: 11.299 min Scan# 1675

Delta R.T. -0.000 min

Lab File: VX047016.D

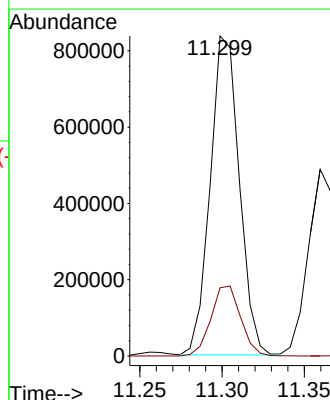
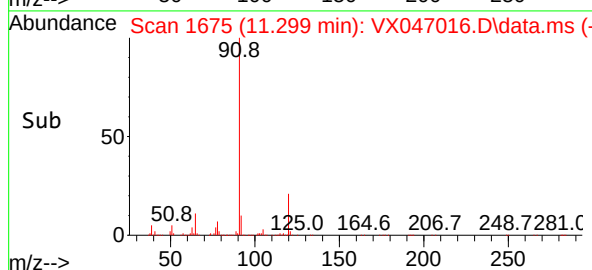
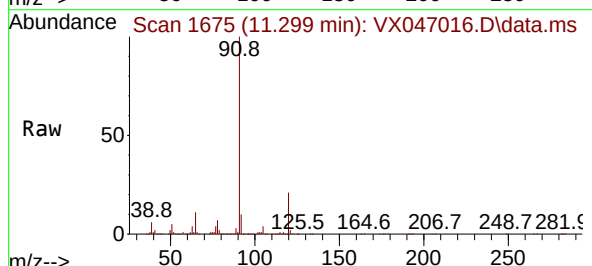
Acq: 16 Jul 2025 09:26

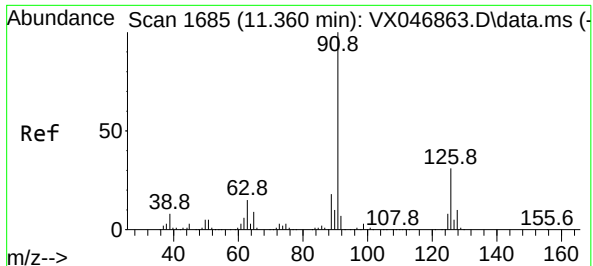
Tgt Ion: 91 Resp: 1031313

Ion Ratio Lower Upper

91 100

120 22.4 11.2 33.5





#79

2-Chlorotoluene

Concen: 50.925 ug/l

RT: 11.360 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 61828

Ion Ratio Lower Upper

91 100

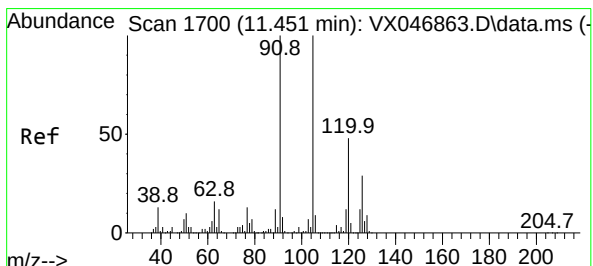
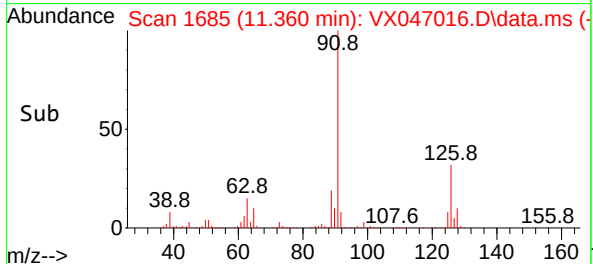
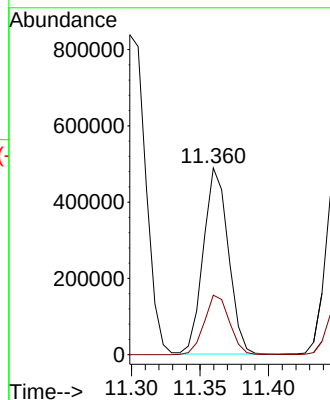
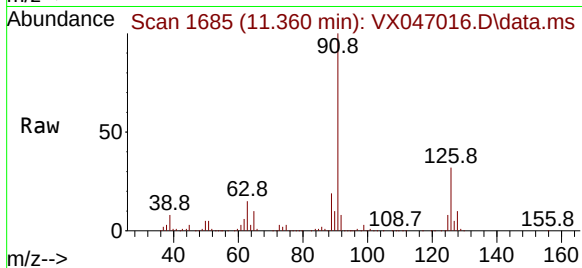
126 32.3 16.6 49.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#80

1,3,5-Trimethylbenzene

Concen: 51.220 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX047016.D

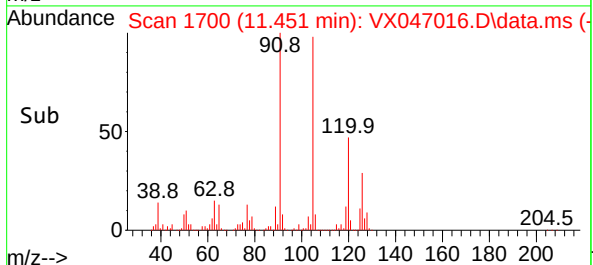
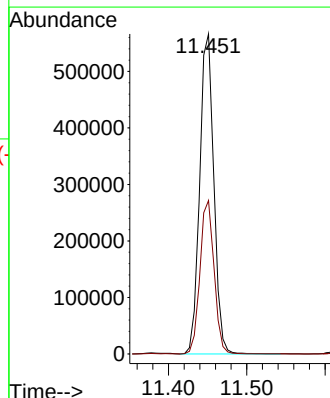
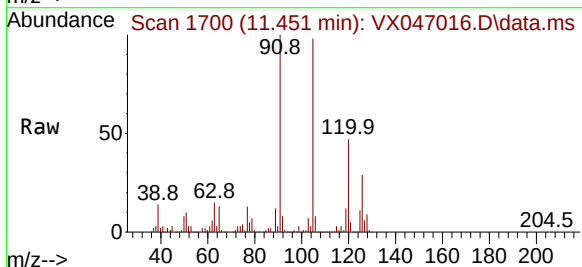
Acq: 16 Jul 2025 09:26

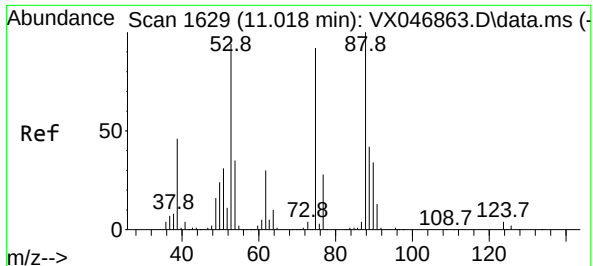
Tgt Ion:105 Resp: 709704

Ion Ratio Lower Upper

105 100

120 47.9 24.1 72.4





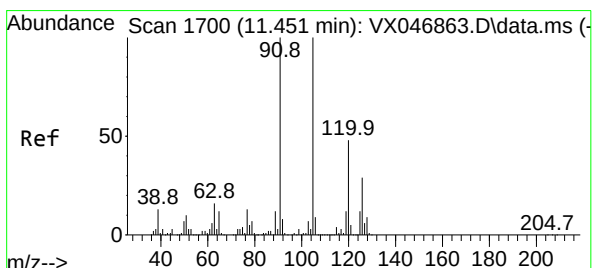
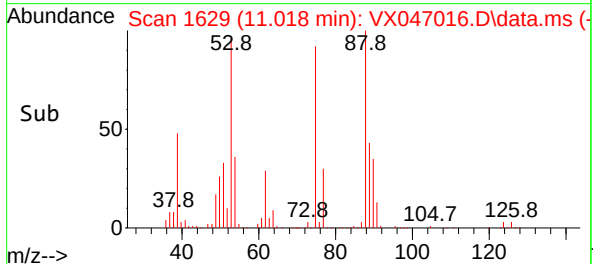
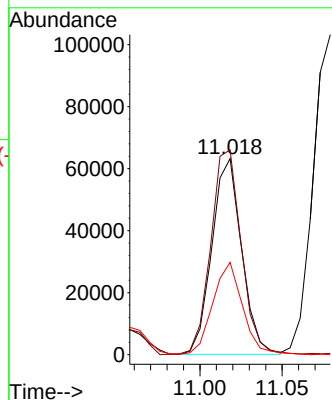
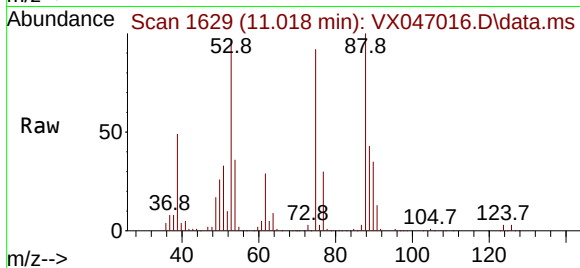
#81
trans-1,4-Dichloro-2-butene
Concen: 56.831 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 79380
Ion Ratio Lower Upper
75 100
53 107.7 83.7 125.5
89 47.3 38.2 57.2

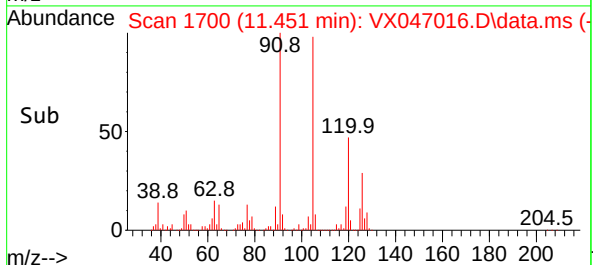
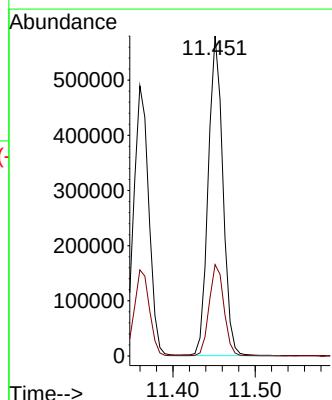
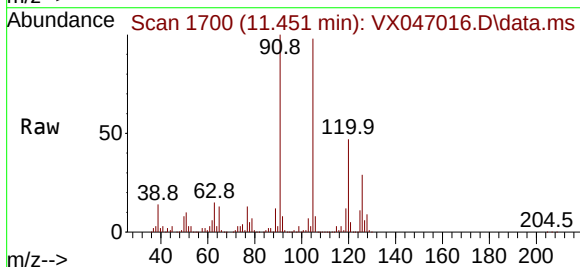
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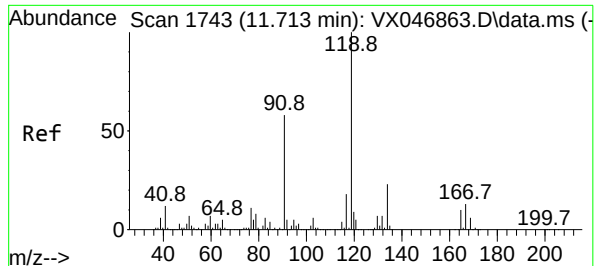
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#82
4-Chlorotoluene
Concen: 51.130 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Tgt Ion: 91 Resp: 716382
Ion Ratio Lower Upper
91 100
126 28.8 14.6 44.0





#83

tert-Butylbenzene

Concen: 51.238 ug/l

RT: 11.713 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 73327

Ion Ratio Lower Upper

119 100

91 58.4 28.7 86.3

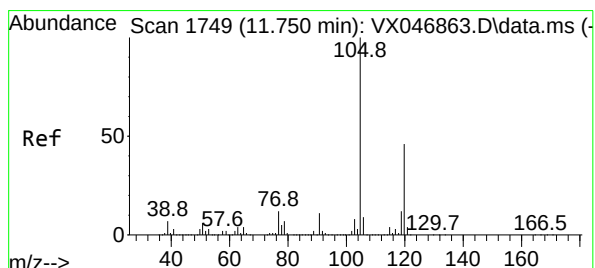
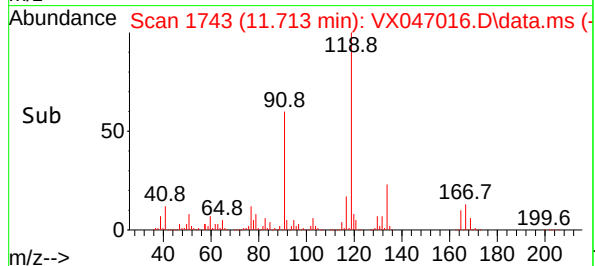
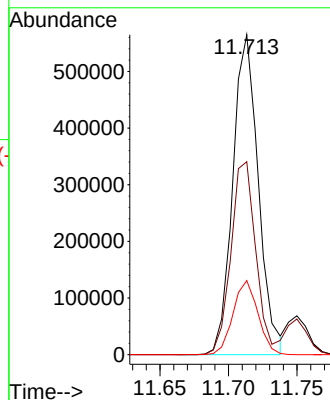
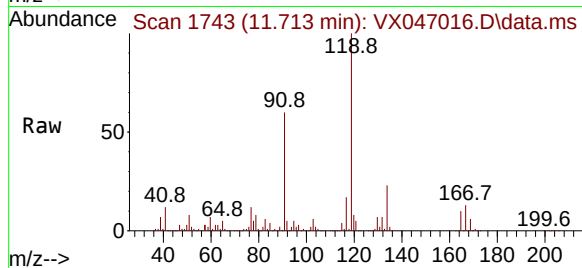
134 22.6 11.4 34.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#84

1,2,4-Trimethylbenzene

Concen: 50.725 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX047016.D

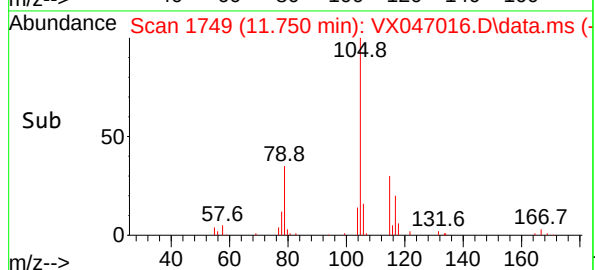
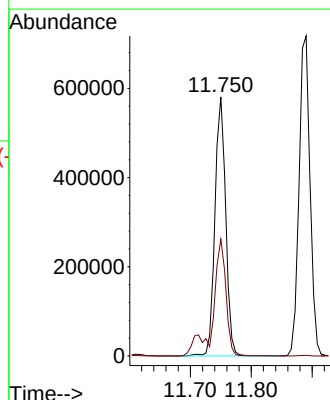
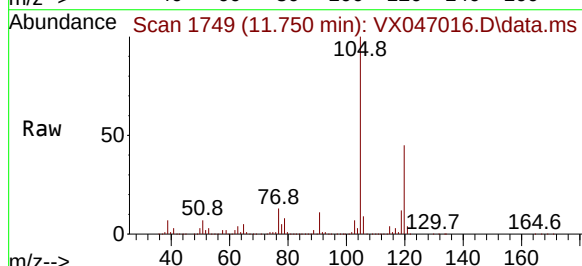
Acq: 16 Jul 2025 09:26

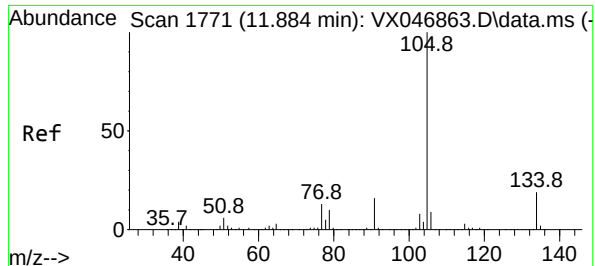
Tgt Ion:105 Resp: 710408

Ion Ratio Lower Upper

105 100

120 43.4 23.3 69.8





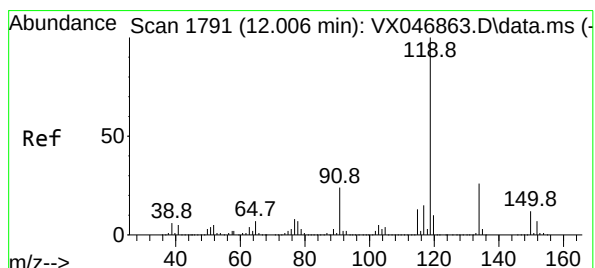
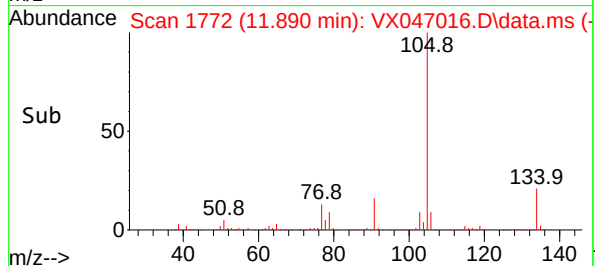
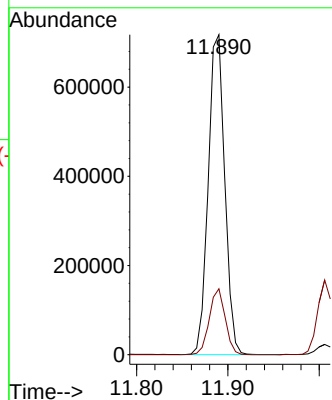
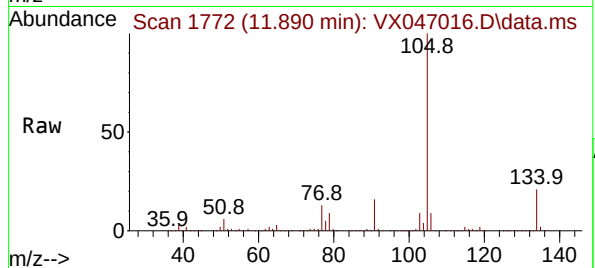
#85
sec-Butylbenzene
Concen: 49.882 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.006 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 900054
Ion Ratio Lower Upper
105 100
134 19.9 9.9 29.7

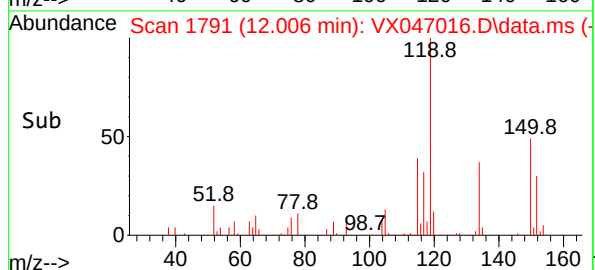
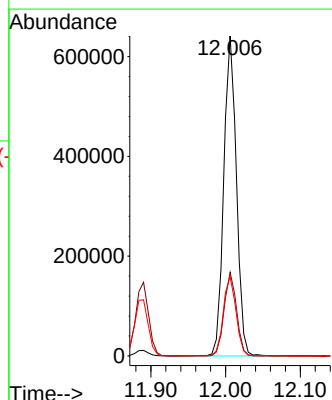
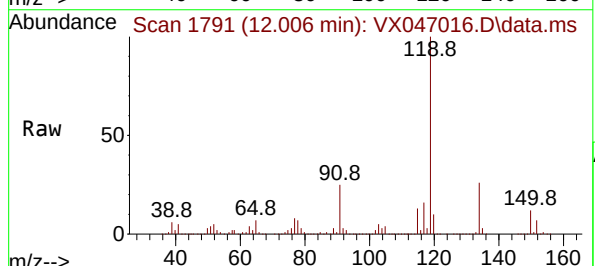
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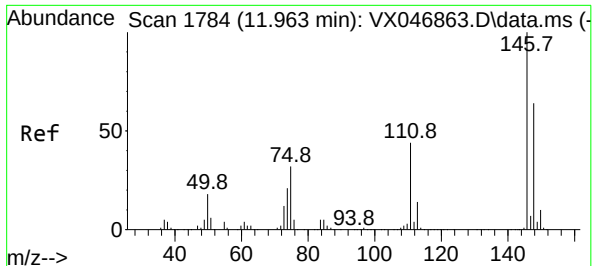
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#86
p-Isopropyltoluene
Concen: 49.827 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Tgt Ion:119 Resp: 752885
Ion Ratio Lower Upper
119 100
134 25.7 13.0 39.0
91 24.9 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 49.111 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.006 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDECC050

Tgt Ion:146 Resp: 390139

Ion Ratio Lower Upper

146 100

111 42.1 20.5 61.6

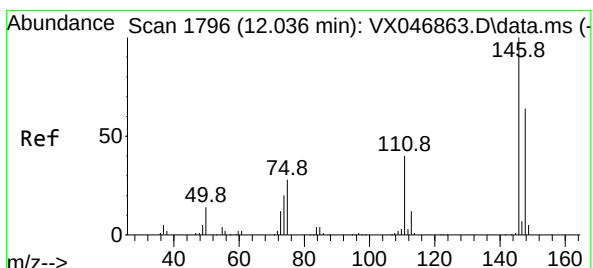
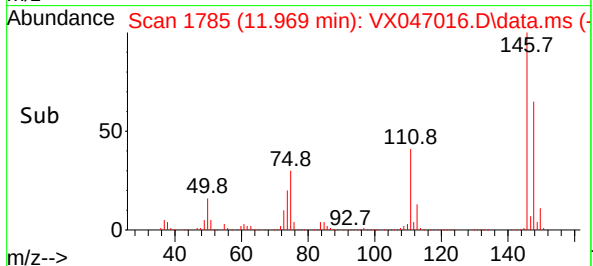
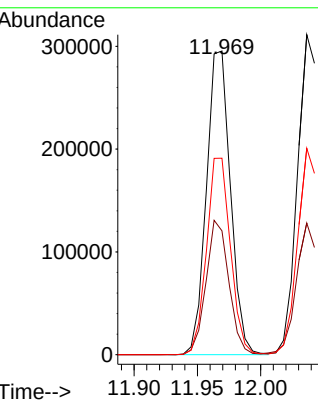
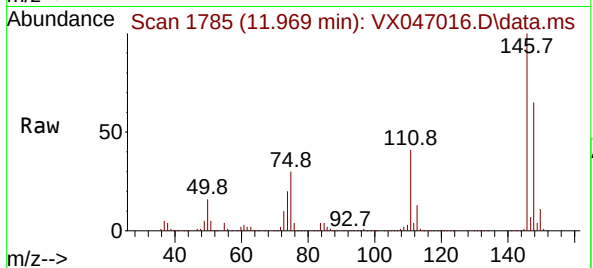
148 64.4 31.4 94.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#88

1,4-Dichlorobenzene

Concen: 47.697 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

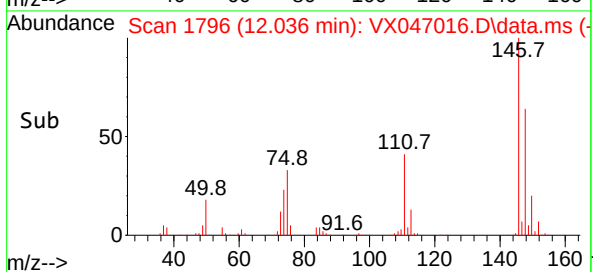
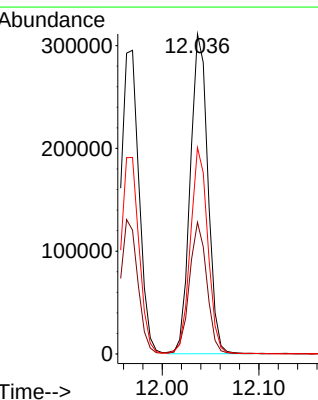
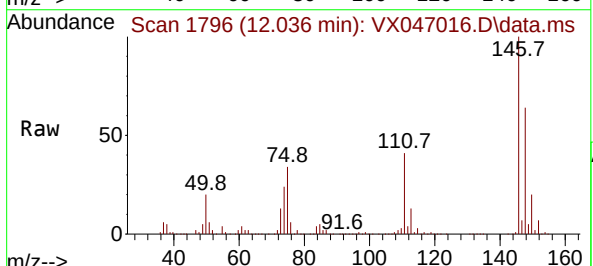
Tgt Ion:146 Resp: 394339

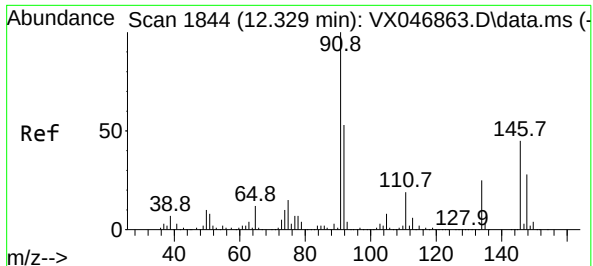
Ion Ratio Lower Upper

146 100

111 41.1 20.2 60.5

148 63.9 32.4 97.0





#89

n-Butylbenzene

Concen: 49.161 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 697969

Ion Ratio Lower Upper

91 100

92 54.9 27.0 81.0

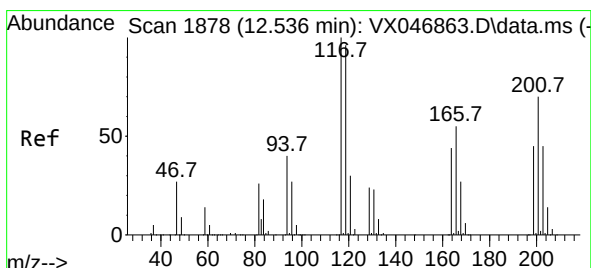
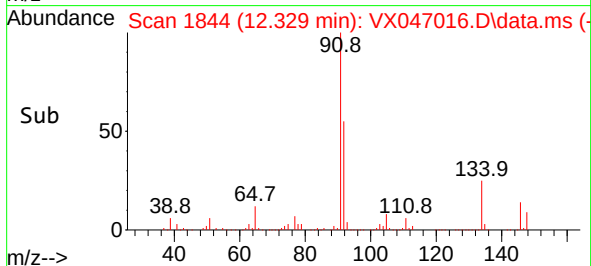
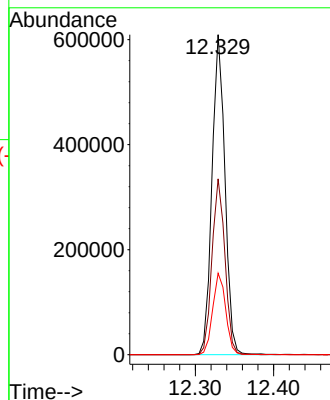
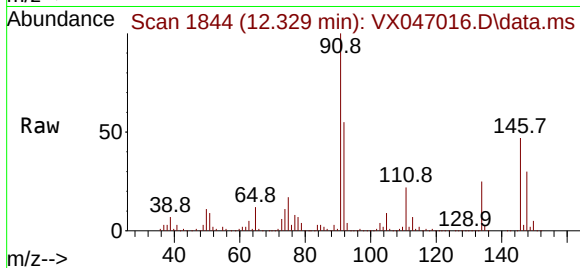
134 25.7 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#90

Hexachloroethane

Concen: 48.469 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX047016.D

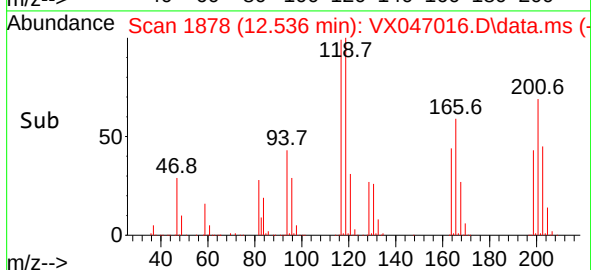
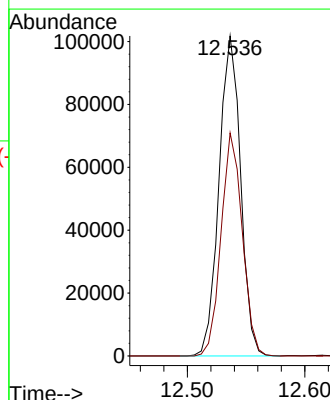
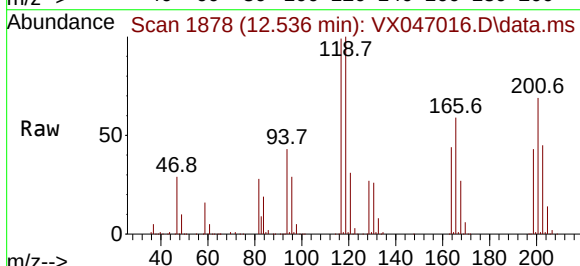
Acq: 16 Jul 2025 09:26

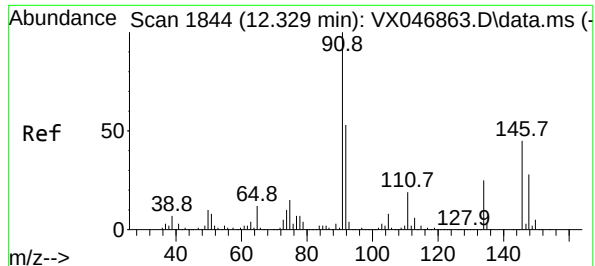
Tgt Ion:117 Resp: 129831

Ion Ratio Lower Upper

117 100

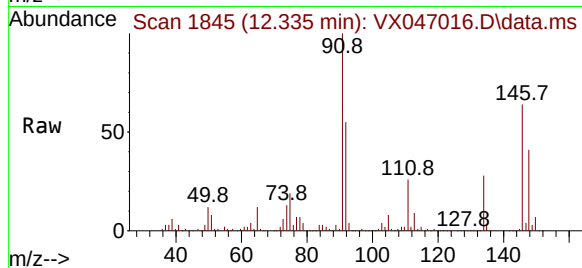
201 68.7 35.8 107.4





#91
1,2-Dichlorobenzene
Concen: 49.340 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

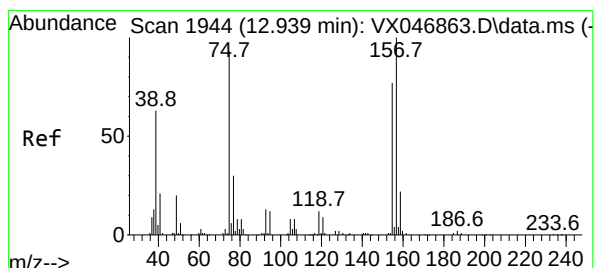
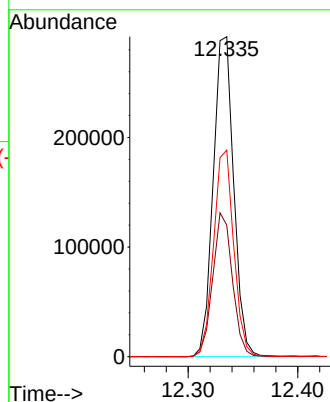
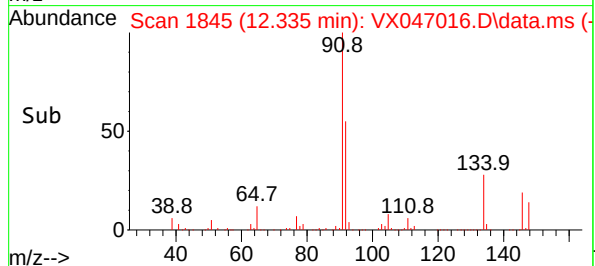
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 37982
Ion Ratio Lower Upper
146 100
111 43.3 21.1 63.1
148 63.7 31.6 95.0

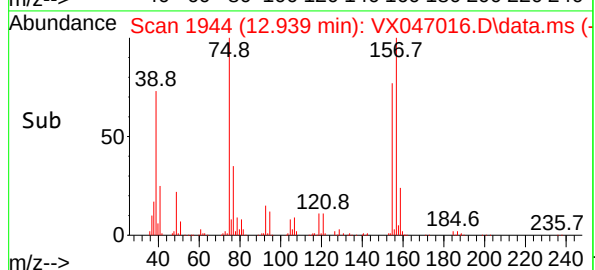
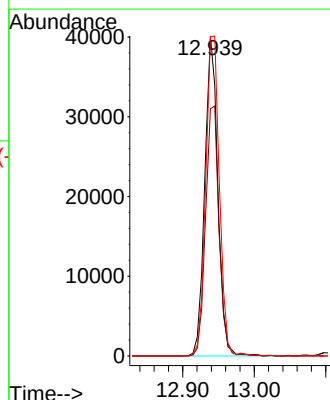
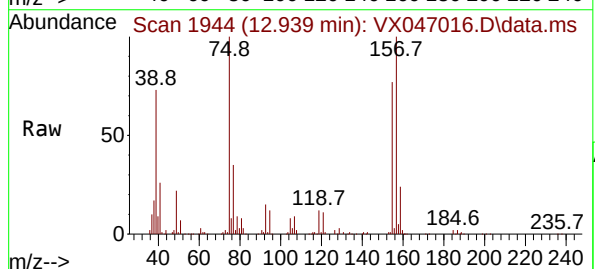
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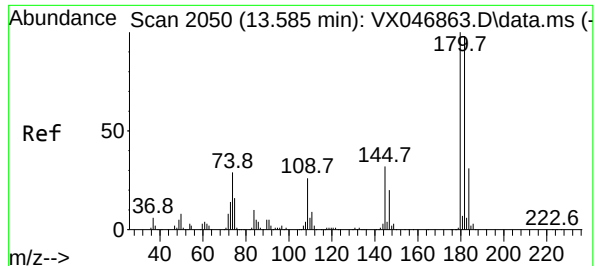
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 62.024 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX047016.D
Acq: 16 Jul 2025 09:26

Tgt Ion: 75 Resp: 50868
Ion Ratio Lower Upper
75 100
155 80.4 43.1 129.4
157 105.2 56.5 169.5





#93

1,2,4-Trichlorobenzene

Concen: 49.437 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:180 Resp: 25854

Ion Ratio Lower Upper

180 100

182 94.2 47.3 141.9

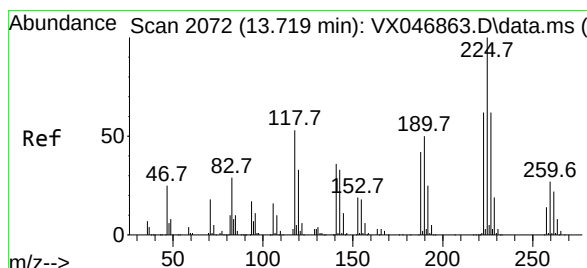
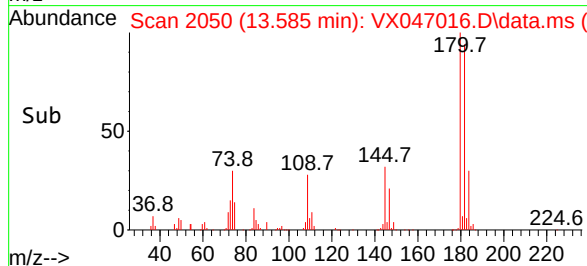
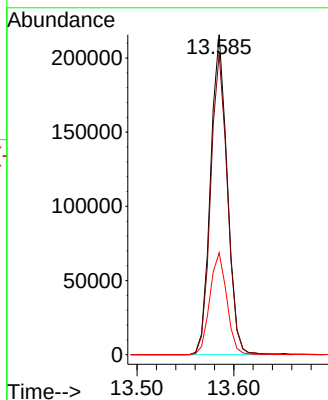
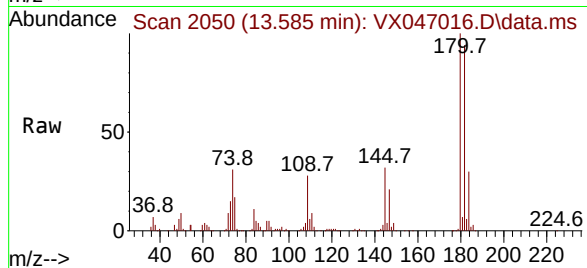
145 32.3 16.1 48.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#94

Hexachlorobutadiene

Concen: 42.770 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.006 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

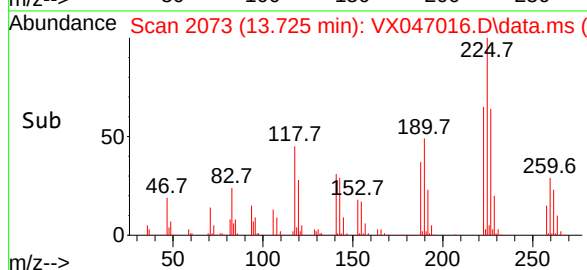
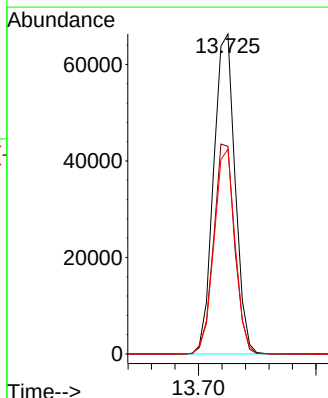
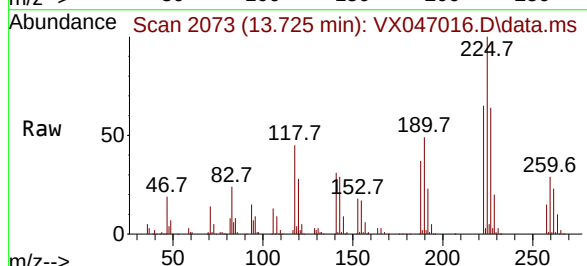
Tgt Ion:225 Resp: 84355

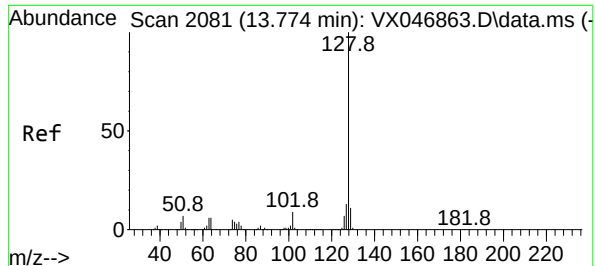
Ion Ratio Lower Upper

225 100

223 64.3 31.6 94.7

227 62.8 31.6 94.7





#95

Naphthalene

Concen: 57.585 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:128 Resp: 793570

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.4

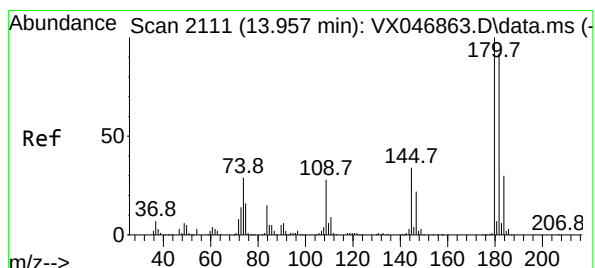
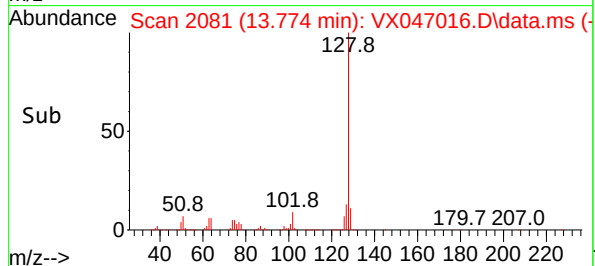
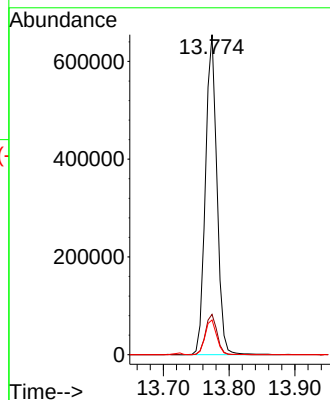
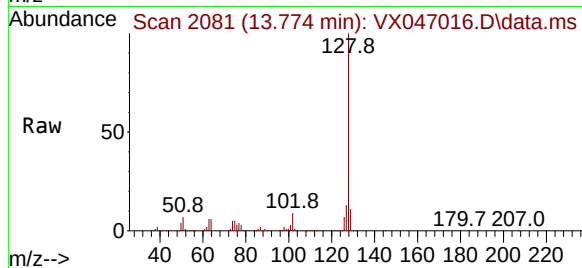
129 11.0 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#96

1,2,3-Trichlorobenzene

Concen: 49.921 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. -0.000 min

Lab File: VX047016.D

Acq: 16 Jul 2025 09:26

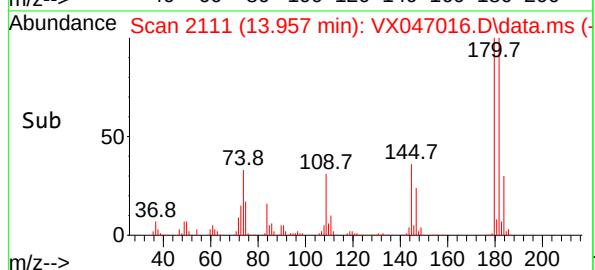
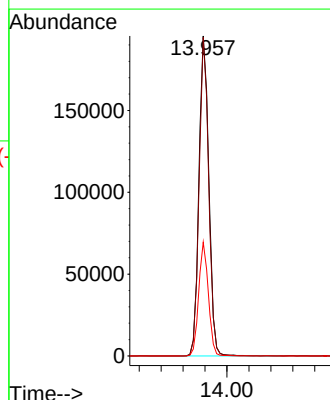
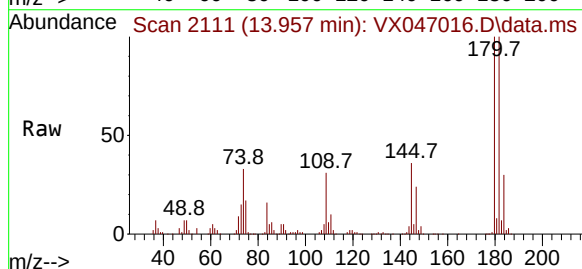
Tgt Ion:180 Resp: 246683

Ion Ratio Lower Upper

180 100

182 96.2 46.7 140.1

145 34.7 16.8 50.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
Data File : VX047016.D
Acq On : 16 Jul 2025 09:26
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jul 17 03:26:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	89	0.00
2 T	Dichlorodifluoromethane	0.478	0.458	4.2	84	0.00
3 P	Chloromethane	0.522	0.489	6.3	86	0.00
4 C	Vinyl Chloride	0.569	0.550	3.3#	89	0.00
5 T	Bromomethane	0.366	0.330	9.8	82	0.00
6 T	Chloroethane	0.376	0.364	3.2	94	0.00
7 T	Trichlorofluoromethane	0.880	0.897	-1.9	94	0.00
8 T	Diethyl Ether	0.313	0.342	-9.3	101	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.561	0.576	-2.7	94	0.00
10 T	Methyl Iodide	0.611	0.525	14.1	74	0.00
11 T	Tert butyl alcohol	0.043	0.067	-55.8#	142	0.00
12 CM	1,1-Dichloroethene	0.542	0.535	1.3#	91	0.00
13 T	Acrolein	0.052	0.051	1.9	101	0.00
14 T	Allyl chloride	0.965	1.024	-6.1	97	0.00
15 T	Acrylonitrile	0.250	0.307	-22.8	112	0.00
16 T	Acetone	0.205	0.250	-22.0	116	0.00
17 T	Carbon Disulfide	1.422	1.105	22.3	74	0.00
18 T	Methyl Acetate	0.541	0.809	-49.5#	131	0.00
19 T	Methyl tert-butyl Ether	1.531	1.842	-20.3	108	0.00
20 T	Methylene Chloride	0.607	0.617	-1.6	94	0.00
21 T	trans-1,2-Dichloroethene	0.555	0.538	3.1	89	0.00
22 T	Diisopropyl ether	1.865	2.127	-14.0	100	0.00
23 T	Vinyl Acetate	1.397	1.594	-14.1	100	0.00
24 P	1,1-Dichloroethane	1.064	1.115	-4.8	96	0.00
25 T	2-Butanone	0.274	0.363	-32.5#	118	0.00
26 T	2,2-Dichloropropane	0.792	0.841	-6.2	99	0.00
27 T	cis-1,2-Dichloroethene	0.677	0.693	-2.4	94	0.00
28 T	Bromochloromethane	0.525	0.559	-6.5	95	0.00
29 T	Tetrahydrofuran	0.175	0.228	-30.3#	116	0.00
30 C	Chloroform	1.087	1.131	-4.0#	96	0.00
31 T	Cyclohexane	0.944	0.885	6.2	86	0.00
32 T	1,1,1-Trichloroethane	0.908	0.954	-5.1	96	0.00
33 S	1,2-Dichloroethane-d4	0.661	0.692	-4.7	96	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
35 S	Dibromofluoromethane	0.339	0.335	1.2	92	0.00
36 T	1,1-Dichloropropene	0.458	0.430	6.1	91	0.00
37 T	Ethyl Acetate	0.390	0.431	-10.5	111	0.00
38 T	Carbon Tetrachloride	0.484	0.468	3.3	91	-0.01
39 T	Methylcyclohexane	0.573	0.508	11.3	83	0.00
40 TM	Benzene	1.385	1.335	3.6	91	0.00
41 T	Methacrylonitrile	0.208	0.263	-26.4#	115	0.00
42 TM	1,2-Dichloroethane	0.470	0.485	-3.2	98	0.00
43 T	Isopropyl Acetate	0.597	0.738	-23.6	111	0.00
44 TM	Trichloroethene	0.361	0.334	7.5	90	0.00
45 C	1,2-Dichloropropane	0.350	0.352	-0.6#	95	0.00
46 T	Dibromomethane	0.242	0.246	-1.7	95	0.00
47 T	Bromodichloromethane	0.518	0.518	0.0	94	0.00
48 T	Methyl methacrylate	0.308	0.380	-23.4	109	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
Data File : VX047016.D
Acq On : 16 Jul 2025 09:26
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jul 17 03:26:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.004	0.005	-25.0	122	0.00
50 S	Toluene-d8	1.197	1.120	6.4	87	0.00
51 T	4-Methyl-2-Pentanone	0.353	0.446	-26.3#	113	0.00
52 CM	Toluene	0.858	0.816	4.9#	90	0.00
53 T	t-1,3-Dichloropropene	0.462	0.490	-6.1	96	0.00
54 T	cis-1,3-Dichloropropene	0.527	0.543	-3.0	94	0.00
55 T	1,1,2-Trichloroethane	0.320	0.330	-3.1	96	0.00
56 T	Ethyl methacrylate	0.442	0.522	-18.1	105	0.00
57 T	1,3-Dichloropropane	0.550	0.563	-2.4	97	0.00
58 T	2-Chloroethyl Vinyl ether	0.249	0.285	-14.5	99	0.00
59 T	2-Hexanone	0.234	0.306	-30.8#	115	0.00
60 T	Dibromochloromethane	0.383	0.382	0.3	94	0.00
61 T	1,2-Dibromoethane	0.321	0.325	-1.2	94	0.00
62 S	4-Bromofluorobenzene	0.455	0.448	1.5	91	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
64 T	Tetrachloroethene	0.333	0.298	10.5	86	0.00
65 PM	Chlorobenzene	1.081	1.054	2.5	91	0.00
66 T	1,1,1,2-Tetrachloroethane	0.363	0.364	-0.3	92	0.00
67 C	Ethyl Benzene	1.851	1.825	1.4#	90	0.00
68 T	m/p-Xylenes	0.698	0.674	3.4	89	0.00
69 T	o-Xylene	0.674	0.667	1.0	91	0.00
70 T	Styrene	1.153	1.171	-1.6	90	0.00
71 P	Bromoform	0.270	0.281	-4.1	95	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
73 T	Isopropylbenzene	3.515	3.616	-2.9	91	0.00
74 T	N-amyl acetate	1.194	1.496	-25.3#	107	0.00
75 P	1,1,2,2-Tetrachloroethane	0.966	1.082	-12.0	102	0.00
76 T	1,2,3-Trichloropropane	0.773	0.883	-14.2	102	0.00
77 T	Bromobenzene	0.875	0.865	1.1	90	0.00
78 T	n-propylbenzene	4.238	4.251	-0.3	90	0.00
79 T	2-Chlorotoluene	2.503	2.549	-1.8	93	0.00
80 T	1,3,5-Trimethylbenzene	2.856	2.926	-2.5	91	0.00
81 T	trans-1,4-Dichloro-2-butene	0.288	0.327	-13.5	102	0.00
82 T	4-Chlorotoluene	2.888	2.953	-2.3	92	0.00
83 T	tert-Butylbenzene	2.950	3.023	-2.5	91	0.00
84 T	1,2,4-Trimethylbenzene	2.887	2.929	-1.5	90	0.00
85 T	sec-Butylbenzene	3.719	3.710	0.2	89	0.00
86 T	p-Isopropyltoluene	3.114	3.104	0.3	89	0.00
87 T	1,3-Dichlorobenzene	1.637	1.608	1.8	90	0.00
88 T	1,4-Dichlorobenzene	1.704	1.626	4.6	91	0.00
89 T	n-Butylbenzene	2.926	2.877	1.7	88	0.00
90 T	Hexachloroethane	0.552	0.535	3.1	88	0.00
91 T	1,2-Dichlorobenzene	1.587	1.566	1.3	91	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.169	0.210	-24.3	112	0.00
93 T	1,2,4-Trichlorobenzene	1.078	1.066	1.1	89	0.00
94 T	Hexachlorobutadiene	0.407	0.348	14.5	77	0.00
95 T	Naphthalene	2.840	3.271	-15.2	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
Data File : VX047016.D
Acq On : 16 Jul 2025 09:26
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jul 17 03:26:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 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	1.019	1.017	0.2	89	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
Data File : VX047016.D
Acq On : 16 Jul 2025 09:26
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jul 17 03:26:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	89	0.00
2 T	Dichlorodifluoromethane	50.000	47.921	4.2	84	0.00
3 P	Chloromethane	50.000	46.787	6.4	86	0.00
4 C	Vinyl Chloride	50.000	48.367	3.3#	89	0.00
5 T	Bromomethane	50.000	45.161	9.7	82	0.00
6 T	Chloroethane	50.000	48.469	3.1	94	0.00
7 T	Trichlorofluoromethane	50.000	50.991	-2.0	94	0.00
8 T	Diethyl Ether	50.000	54.670	-9.3	101	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	51.369	-2.7	94	0.00
10 T	Methyl Iodide	50.000	42.993	14.0	74	0.00
11 T	Tert butyl alcohol	250.000	386.477	-54.6#	142	0.00
12 CM	1,1-Dichloroethene	50.000	49.305	1.4#	91	0.00
13 T	Acrolein	250.000	268.622	-7.4	101	0.00
14 T	Allyl chloride	50.000	53.017	-6.0	97	0.00
15 T	Acrylonitrile	250.000	306.730	-22.7	112	0.00
16 T	Acetone	250.000	305.134	-22.1	116	0.00
17 T	Carbon Disulfide	50.000	38.842	22.3	74	0.00
18 T	Methyl Acetate	50.000	74.800	-49.6#	131	0.00
19 T	Methyl tert-butyl Ether	50.000	60.153	-20.3	108	0.00
20 T	Methylene Chloride	50.000	50.858	-1.7	94	0.00
21 T	trans-1,2-Dichloroethene	50.000	48.496	3.0	89	0.00
22 T	Diisopropyl ether	50.000	57.031	-14.1	100	0.00
23 T	Vinyl Acetate	250.000	285.194	-14.1	100	0.00
24 P	1,1-Dichloroethane	50.000	52.427	-4.9	96	0.00
25 T	2-Butanone	250.000	331.149	-32.5#	118	0.00
26 T	2,2-Dichloropropane	50.000	53.124	-6.2	99	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.130	-2.3	94	0.00
28 T	Bromochloromethane	50.000	53.294	-6.6	95	0.00
29 T	Tetrahydrofuran	250.000	325.963	-30.4#	116	0.00
30 C	Chloroform	50.000	52.033	-4.1#	96	0.00
31 T	Cyclohexane	50.000	46.885	6.2	86	0.00
32 T	1,1,1-Trichloroethane	50.000	52.522	-5.0	96	0.00
33 S	1,2-Dichloroethane-d4	50.000	52.377	-4.8	96	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	93	0.00
35 S	Dibromofluoromethane	50.000	49.364	1.3	92	0.00
36 T	1,1-Dichloropropene	50.000	46.963	6.1	91	0.00
37 T	Ethyl Acetate	50.000	55.256	-10.5	111	0.00
38 T	Carbon Tetrachloride	50.000	48.373	3.3	91	-0.01
39 T	Methylcyclohexane	50.000	44.378	11.2	83	0.00
40 TM	Benzene	50.000	48.186	3.6	91	0.00
41 T	Methacrylonitrile	50.000	63.189	-26.4#	115	0.00
42 TM	1,2-Dichloroethane	50.000	51.606	-3.2	98	0.00
43 T	Isopropyl Acetate	50.000	61.803	-23.6	111	0.00
44 TM	Trichloroethene	50.000	46.385	7.2	90	0.00
45 C	1,2-Dichloropropane	50.000	50.335	-0.7#	95	0.00
46 T	Dibromomethane	50.000	50.790	-1.6	95	0.00
47 T	Bromodichloromethane	50.000	50.006	-0.0	94	0.00
48 T	Methyl methacrylate	50.000	61.535	-23.1	109	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
Data File : VX047016.D
Acq On : 16 Jul 2025 09:26
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jul 17 03:26:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 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	1339.175	-33.9#	122	0.00
50 S	Toluene-d8	50.000	46.747	6.5	87	0.00
51 T	4-Methyl-2-Pentanone	250.000	316.598	-26.6#	113	0.00
52 CM	Toluene	50.000	47.521	5.0#	90	0.00
53 T	t-1,3-Dichloropropene	50.000	53.065	-6.1	96	0.00
54 T	cis-1,3-Dichloropropene	50.000	51.495	-3.0	94	0.00
55 T	1,1,2-Trichloroethane	50.000	51.604	-3.2	96	0.00
56 T	Ethyl methacrylate	50.000	58.971	-17.9	105	0.00
57 T	1,3-Dichloropropane	50.000	51.159	-2.3	97	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	285.619	-14.2	99	0.00
59 T	2-Hexanone	250.000	326.601	-30.6#	115	0.00
60 T	Dibromochloromethane	50.000	49.909	0.2	94	0.00
61 T	1,2-Dibromoethane	50.000	50.601	-1.2	94	0.00
62 S	4-Bromofluorobenzene	50.000	49.215	1.6	91	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	91	0.00
64 T	Tetrachloroethene	50.000	44.753	10.5	86	0.00
65 PM	Chlorobenzene	50.000	48.766	2.5	91	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.070	-0.1	92	0.00
67 C	Ethyl Benzene	50.000	49.296	1.4#	90	0.00
68 T	m/p-Xylenes	100.000	96.627	3.4	89	0.00
69 T	o-Xylene	50.000	49.506	1.0	91	0.00
70 T	Styrene	50.000	50.765	-1.5	90	0.00
71 P	Bromoform	50.000	51.994	-4.0	95	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	91	0.00
73 T	Isopropylbenzene	50.000	51.445	-2.9	91	0.00
74 T	N-ethyl acetate	50.000	62.627	-25.3#	107	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	55.985	-12.0	102	0.00
76 T	1,2,3-Trichloropropane	50.000	57.136	-14.3	102	0.00
77 T	Bromobenzene	50.000	49.376	1.2	90	0.00
78 T	n-propylbenzene	50.000	50.156	-0.3	90	0.00
79 T	2-Chlorotoluene	50.000	50.925	-1.8	93	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.220	-2.4	91	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	56.831	-13.7	102	0.00
82 T	4-Chlorotoluene	50.000	51.130	-2.3	92	0.00
83 T	tert-Butylbenzene	50.000	51.238	-2.5	91	0.00
84 T	1,2,4-Trimethylbenzene	50.000	50.725	-1.5	90	0.00
85 T	sec-Butylbenzene	50.000	49.882	0.2	89	0.00
86 T	p-Isopropyltoluene	50.000	49.827	0.3	89	0.00
87 T	1,3-Dichlorobenzene	50.000	49.111	1.8	90	0.00
88 T	1,4-Dichlorobenzene	50.000	47.697	4.6	91	0.00
89 T	n-Butylbenzene	50.000	49.161	1.7	88	0.00
90 T	Hexachloroethane	50.000	48.469	3.1	88	0.00
91 T	1,2-Dichlorobenzene	50.000	49.340	1.3	91	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	62.024	-24.0	112	0.00
93 T	1,2,4-Trichlorobenzene	50.000	49.437	1.1	89	0.00
94 T	Hexachlorobutadiene	50.000	42.770	14.5	77	0.00
95 T	Naphthalene	50.000	57.585	-15.2	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
Data File : VX047016.D
Acq On : 16 Jul 2025 09:26
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Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
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VSTDCCC050

Quant Time: Jul 17 03:26:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	49.921	0.2	89	0.00

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



QC SAMPLE DATA

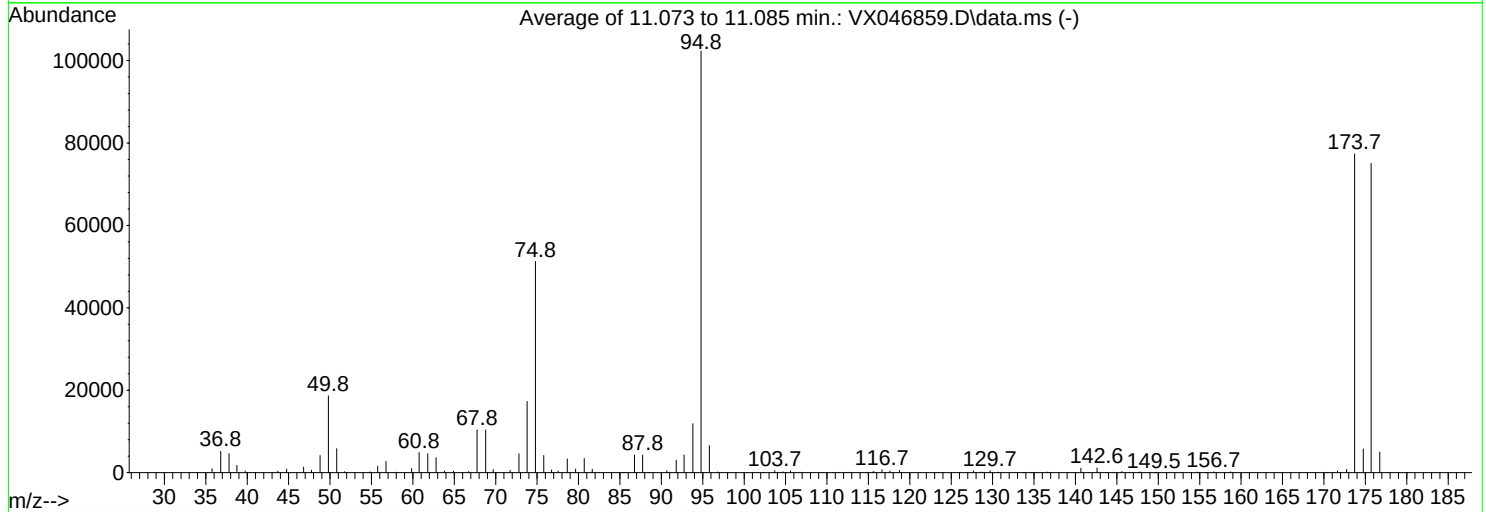
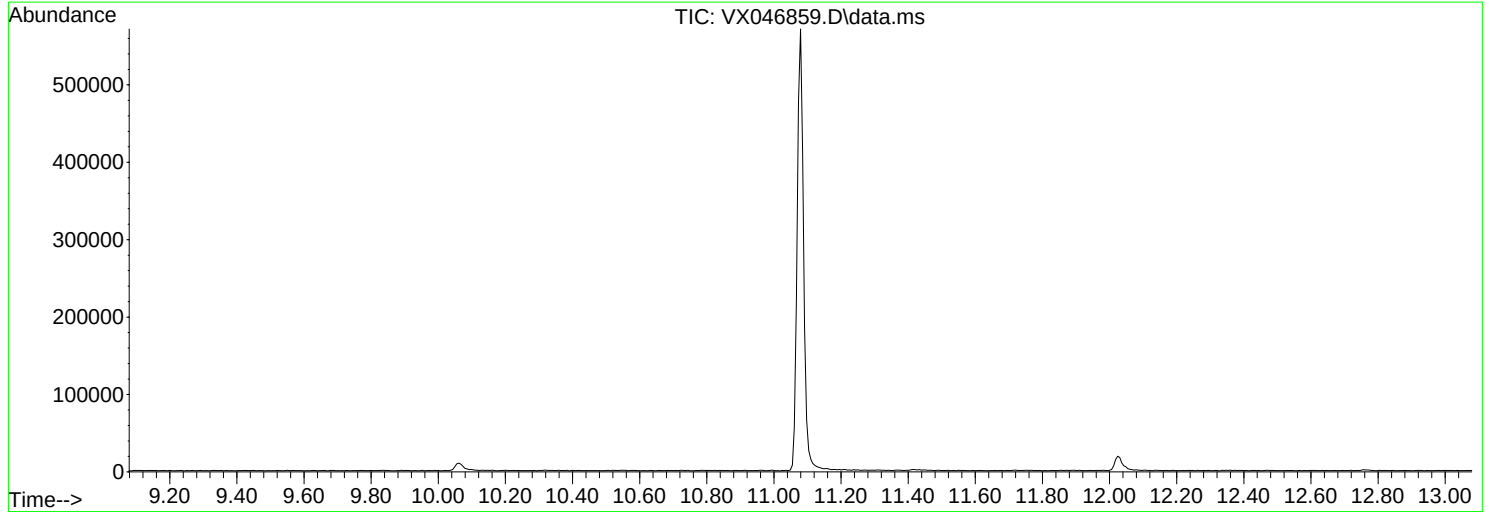
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070225\
Data File : VX046859.D
Acq On : 02 Jul 2025 11:12
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Title : SW846 8260
Last Update : Thu Jul 03 05:51:11 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

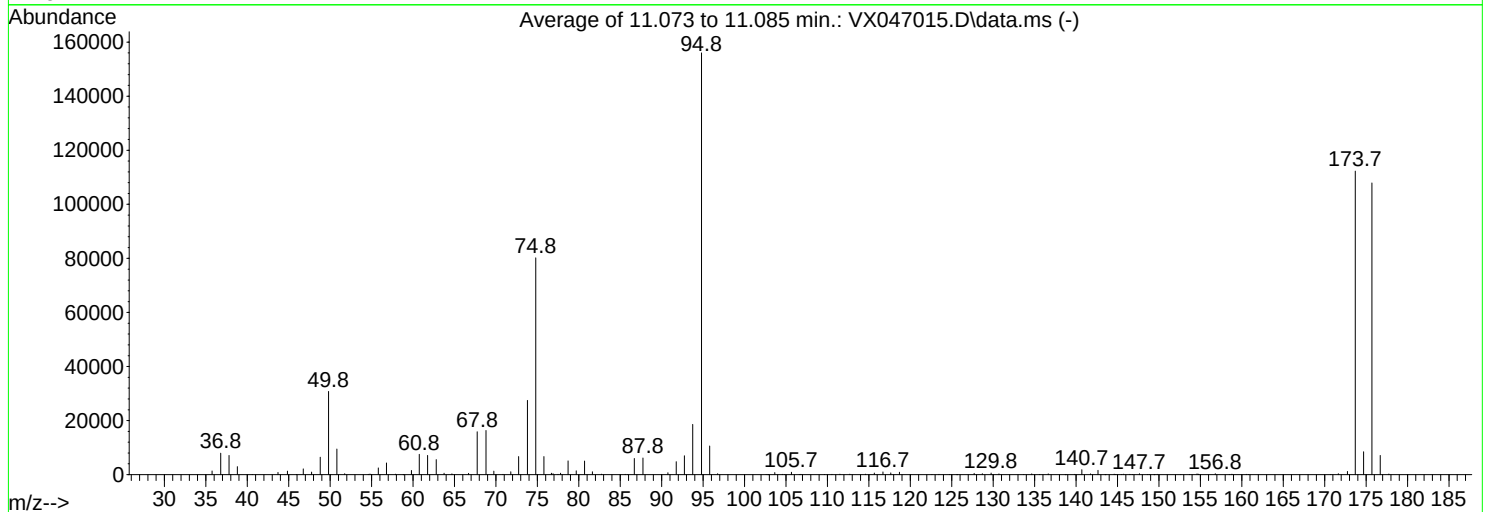
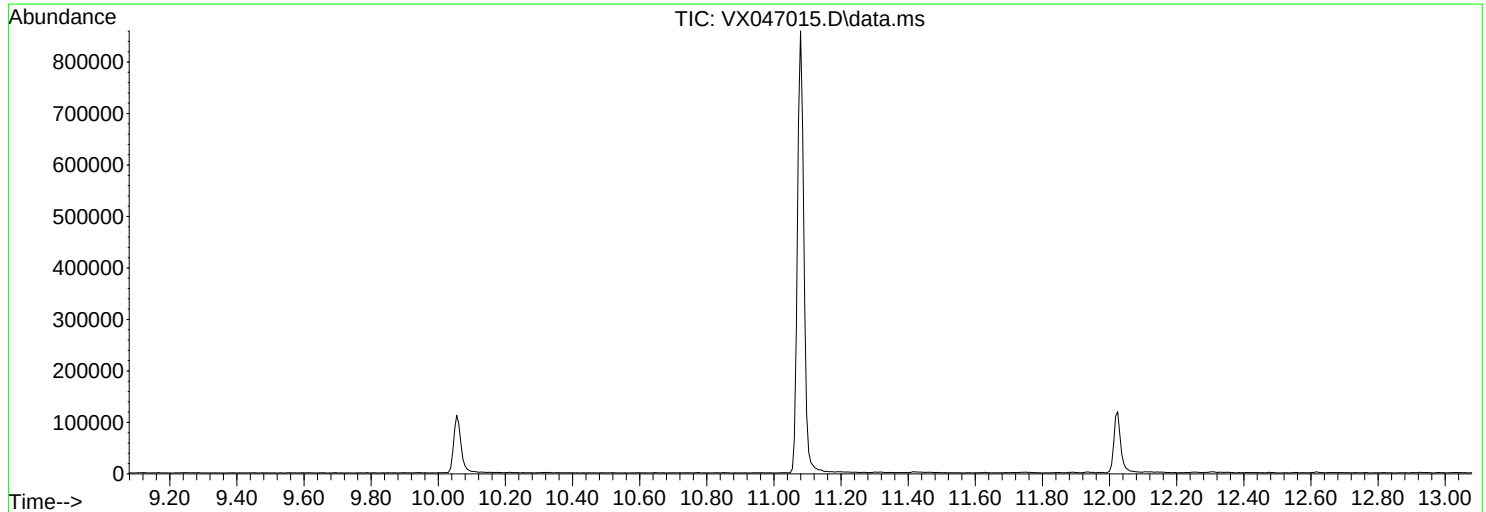
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	18.2	18657	PASS
75	95	30	60	50.1	51248	PASS
95	95	100	100	100.0	102357	PASS
96	95	5	9	6.4	6574	PASS
173	174	0.00	2	1.0	779	PASS
174	95	50	100	75.5	77328	PASS
175	174	5	9	7.4	5758	PASS
176	174	95	101	97.1	75051	PASS
177	176	5	9	6.7	5020	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
Data File : VX047015.D
Acq On : 16 Jul 2025 08:58
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\82X070225W.M
Title : SW846 8260
Last Update : Thu Jul 03 05:51:11 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	19.7	30773	PASS
75	95	30	60	51.4	80213	PASS
95	95	100	100	100.0	156032	PASS
96	95	5	9	6.8	10596	PASS
173	174	0.00	2	1.0	1178	PASS
174	95	50	100	72.0	112272	PASS
175	174	5	9	7.6	8478	PASS
176	174	95	101	96.1	107928	PASS
177	176	5	9	6.6	7133	PASS

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	
Project:	Con Edison - East River Site 2		Date Received:	
Client Sample ID:	VX0716WBL01		SDG No.:	Q2592
Lab Sample ID:	VX0716WBL01		Matrix:	TCLP
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	TCLP VOA
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047018.D	1	07/16/25 10:34	VX071625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	5.00	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	5.00	U	0.23	5.00	ug/L
78-93-3	2-Butanone	25.0	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	5.00	U	0.25	5.00	ug/L
67-66-3	Chloroform	5.00	U	0.25	5.00	ug/L
71-43-2	Benzene	5.00	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	5.00	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	5.00	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	5.00	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	5.00	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.6		74 - 125	107%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	48.1		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.5		77 - 121	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	325000	5.562			
540-36-3	1,4-Difluorobenzene	553000	6.769			
3114-55-4	Chlorobenzene-d5	507000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	263000	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
Data File : VX047018.D
Acq On : 16 Jul 2025 10:34
Operator : JC/MD
Sample : VX0716WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBL01

Quant Time: Jul 17 03:27:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	324808	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	553162	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	506524	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	262675	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	230017	53.604	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 107.200%		
35) Dibromofluoromethane	5.397	113	185750	49.469	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 98.940%		
50) Toluene-d8	8.653	98	637073	48.088	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 96.180%		
62) 4-Bromofluorobenzene	11.079	95	264318	52.496	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 105.000%		

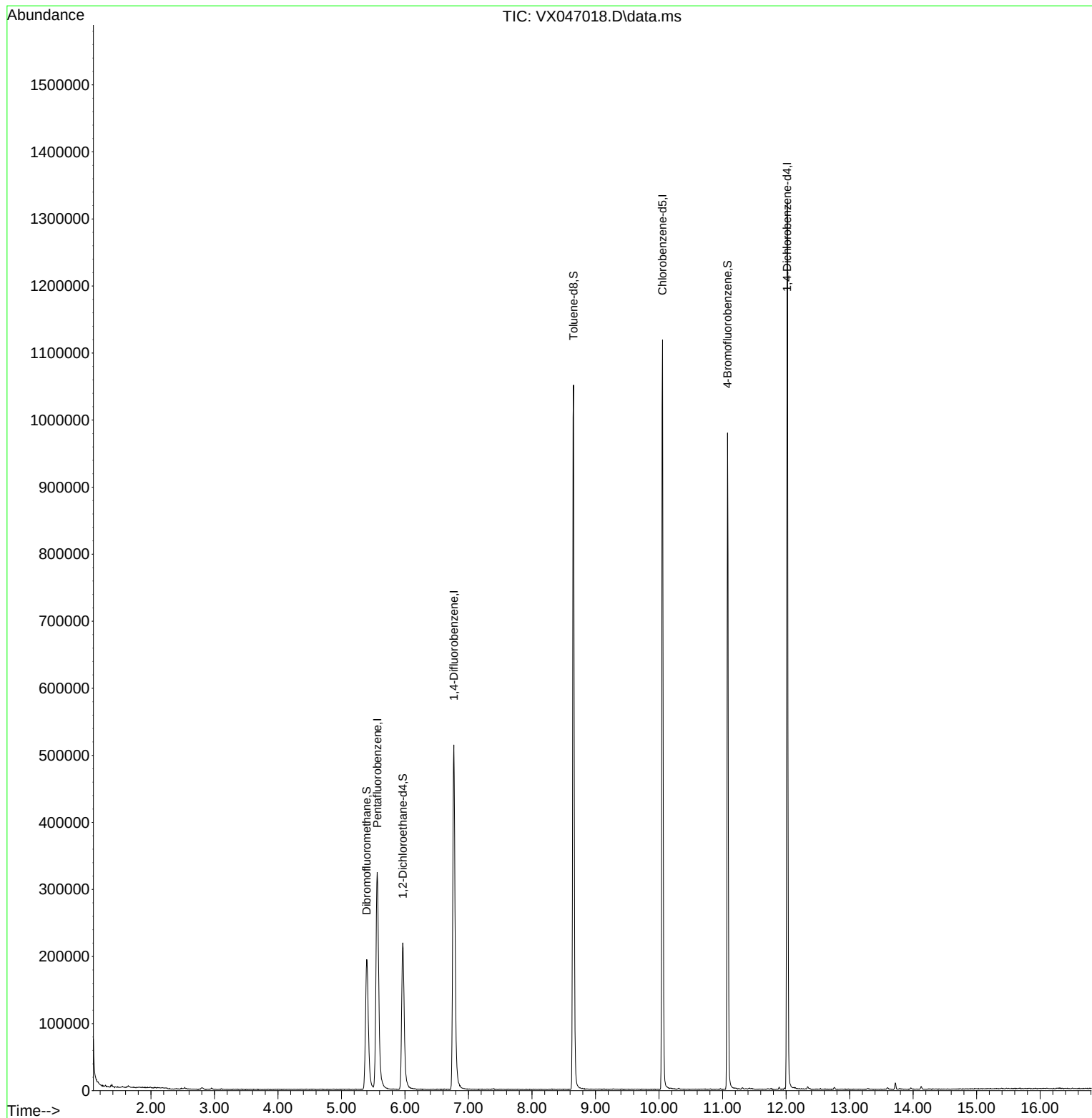
Target Compounds	Qvalue

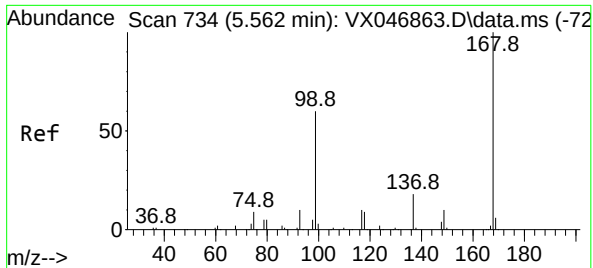
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
Data File : VX047018.D
Acq On : 16 Jul 2025 10:34
Operator : JC/MD
Sample : VX0716WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBL01

Quant Time: Jul 17 03:27:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

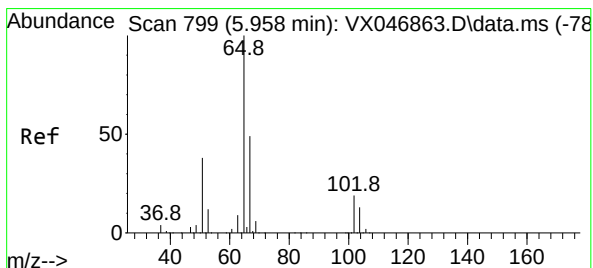
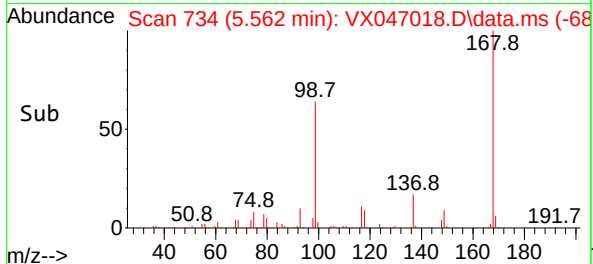
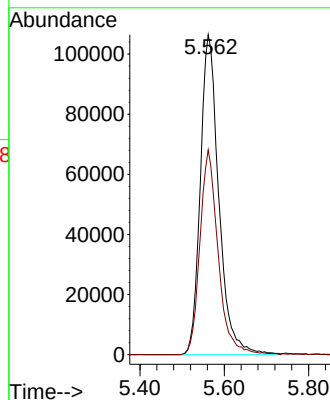
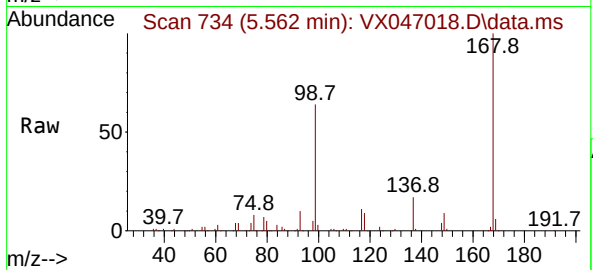




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047018.D
Acq: 16 Jul 2025 10:34

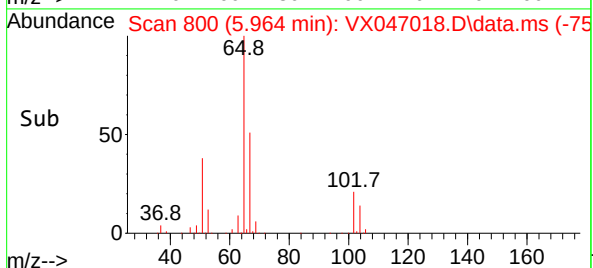
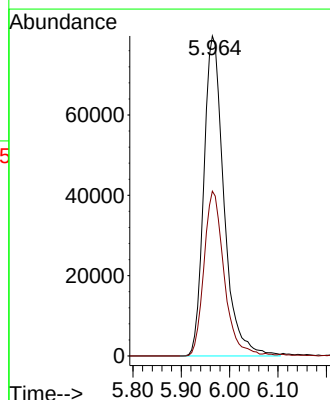
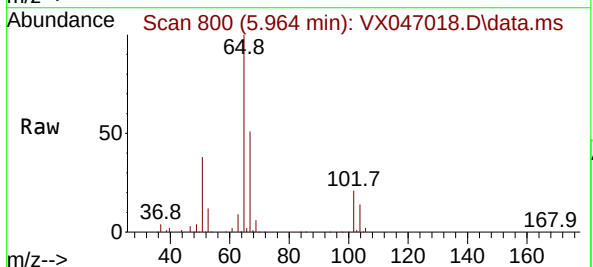
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBL01

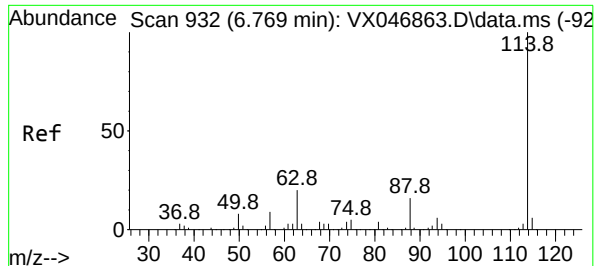
Tgt Ion:168 Resp: 324808
Ion Ratio Lower Upper
168 100
99 64.0 48.8 73.2



#33
1,2-Dichloroethane-d4
Concen: 53.604 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.006 min
Lab File: VX047018.D
Acq: 16 Jul 2025 10:34

Tgt Ion: 65 Resp: 230017
Ion Ratio Lower Upper
65 100
67 51.5 0.0 105.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX047018.D

Acq: 16 Jul 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBL01

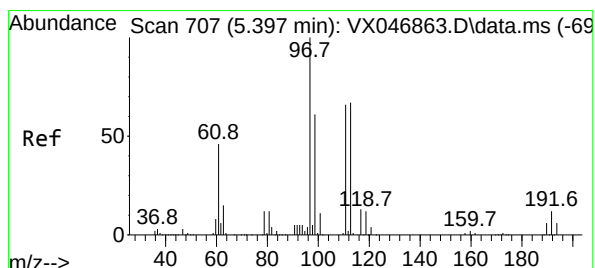
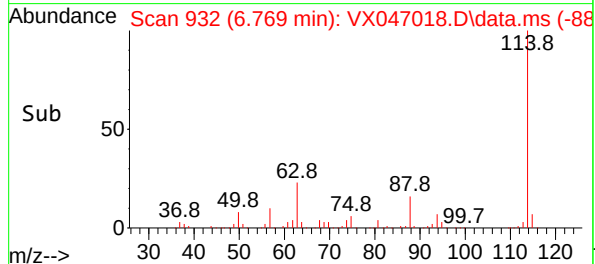
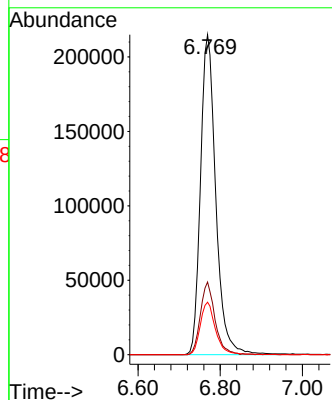
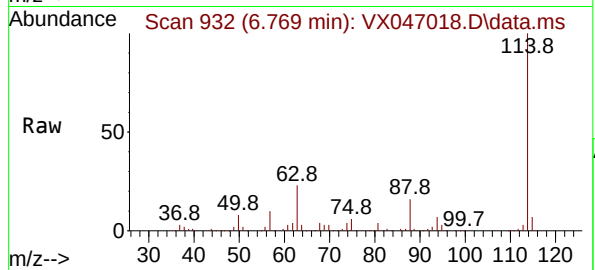
Tgt Ion:114 Resp: 553162

Ion Ratio Lower Upper

114 100

63 22.7 0.0 40.4

88 16.4 0.0 31.0



#35

Dibromofluoromethane

Concen: 49.469 ug/l

RT: 5.397 min Scan# 707

Delta R.T. -0.000 min

Lab File: VX047018.D

Acq: 16 Jul 2025 10:34

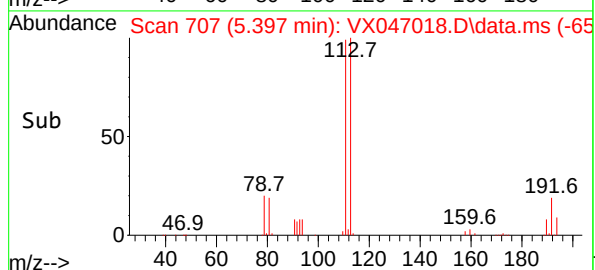
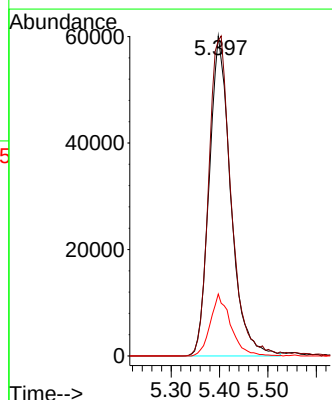
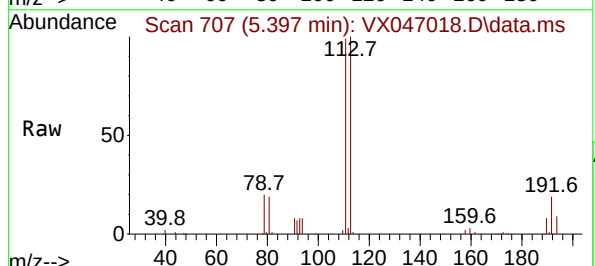
Tgt Ion:113 Resp: 185750

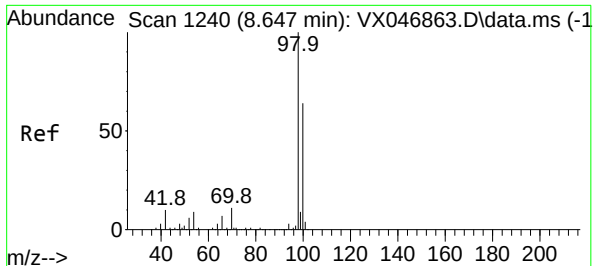
Ion Ratio Lower Upper

113 100

111 103.6 81.2 121.8

192 18.3 15.3 22.9





#50

Toluene-d8

Concen: 48.088 ug/l

RT: 8.653 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX047018.D

Acq: 16 Jul 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

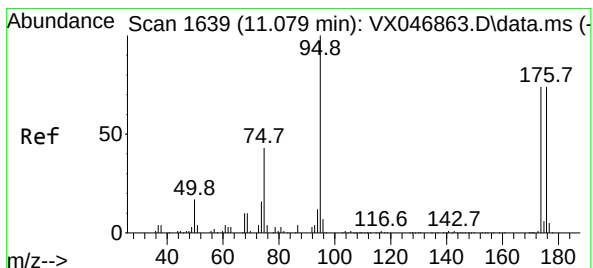
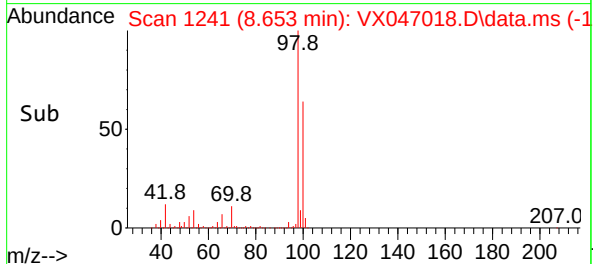
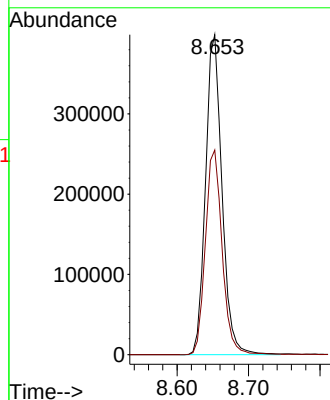
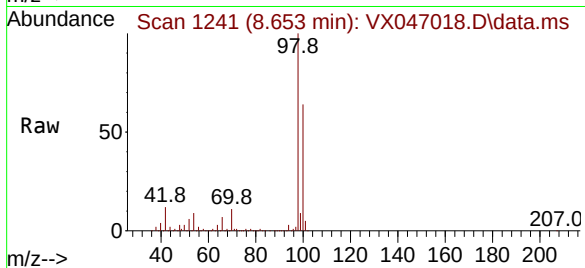
VX0716WBL01

Tgt Ion: 98 Resp: 637073

Ion Ratio Lower Upper

98 100

100 65.2 53.0 79.6



#62

4-Bromofluorobenzene

Concen: 52.496 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX047018.D

Acq: 16 Jul 2025 10:34

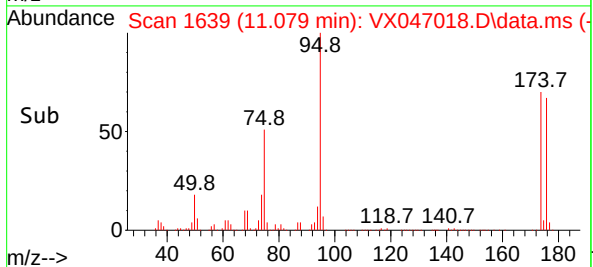
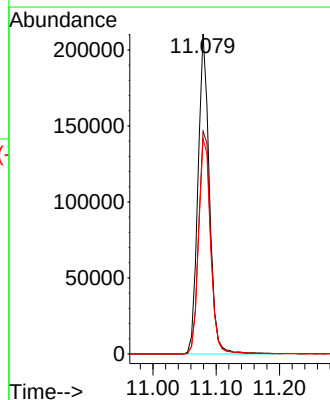
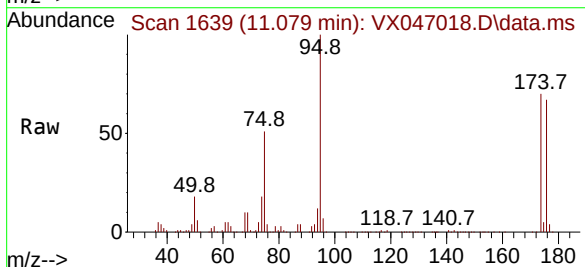
Tgt Ion: 95 Resp: 264318

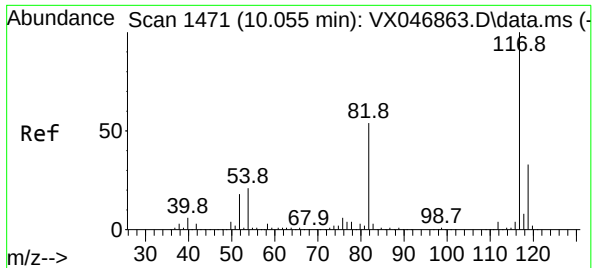
Ion Ratio Lower Upper

95 100

174 74.0 0.0 152.0

176 70.4 0.0 145.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX047018.D

Acq: 16 Jul 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBL01

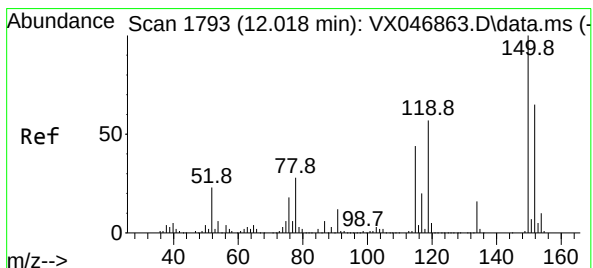
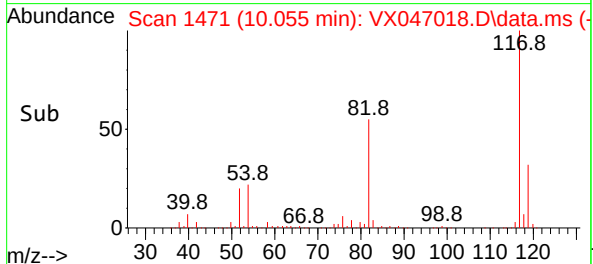
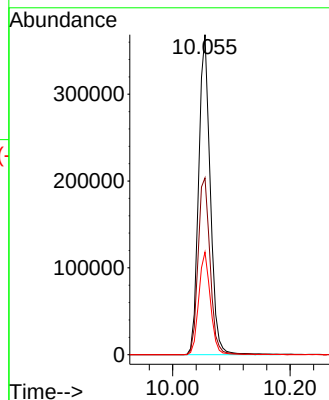
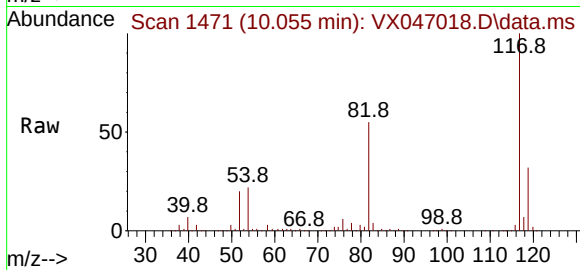
Tgt Ion:117 Resp: 506524

Ion Ratio Lower Upper

117 100

82 55.3 43.3 64.9

119 32.0 26.4 39.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX047018.D

Acq: 16 Jul 2025 10:34

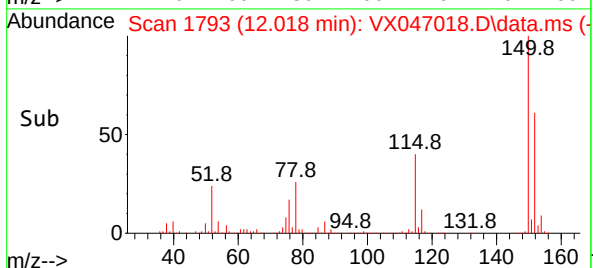
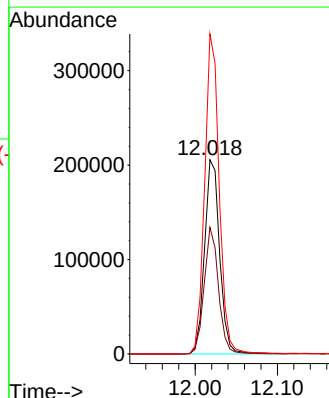
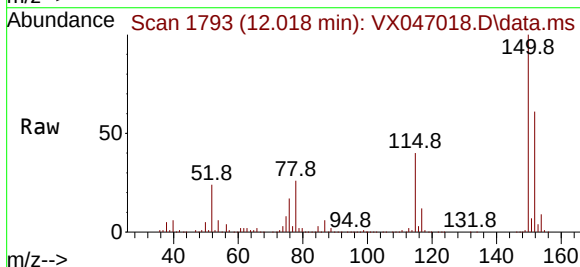
Tgt Ion:152 Resp: 262675

Ion Ratio Lower Upper

152 100

115 62.1 42.4 127.1

150 158.8 0.0 349.2



Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	
Project:	Con Edison - East River Site 2	Date Received:	
Client Sample ID:	VX0716WBS01	SDG No.:	Q2592
Lab Sample ID:	VX0716WBS01	Matrix:	TCLP
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047022.D	1	07/16/25 12:11	VX071625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	16.6		0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	17.7		0.23	5.00	ug/L
78-93-3	2-Butanone	140		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	18.4		0.25	5.00	ug/L
67-66-3	Chloroform	20.0		0.25	5.00	ug/L
71-43-2	Benzene	18.5		0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	20.1		0.22	5.00	ug/L
79-01-6	Trichloroethene	17.6		0.090	5.00	ug/L
127-18-4	Tetrachloroethene	17.5		0.23	5.00	ug/L
108-90-7	Chlorobenzene	19.0		0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.4		74 - 125	105%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		75 - 124	98%	SPK: 50
2037-26-5	Toluene-d8	48.1		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.0		77 - 121	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	322000	5.568			
540-36-3	1,4-Difluorobenzene	547000	6.769			
3114-55-4	Chlorobenzene-d5	492000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	247000	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
 Data File : VX047022.D
 Acq On : 16 Jul 2025 12:11
 Operator : JC/MD
 Sample : VX0716WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0716WBS01

Quant Time: Jul 17 03:30:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
 Supervised By :Semsettin Yesilyurt 07/17/2025

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

Internal Standards						
1) Pentafluorobenzene	5.568	168	322183	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	547259	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	491570	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	246550	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.964	65	222821	52.350	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 104.700%	
35) Dibromofluoromethane	5.397	113	181294	48.803	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 97.600%	
50) Toluene-d8	8.653	98	630463	48.103	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 96.200%	
62) 4-Bromofluorobenzene	11.079	95	259114	52.018	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 104.040%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.184	85	50056	16.246	ug/l	98
3) Chloromethane	1.306	50	54087	16.067	ug/l	98
4) Vinyl Chloride	1.386	62	60709	16.560	ug/l	99
5) Bromomethane	1.623	94	40316	17.116	ug/l	97
6) Chloroethane	1.703	64	41315	17.067	ug/l	93
7) Trichlorofluoromethane	1.904	101	101587	17.921	ug/l	98
8) Diethyl Ether	2.148	74	39134	19.400	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.349	101	68825	19.055	ug/l	99
10) Methyl Iodide	2.471	142	59775	15.190	ug/l	97
11) Tert butyl alcohol	2.965	59	45448	162.807	ug/l	99
12) 1,1-Dichloroethene	2.337	96	61691	17.658	ug/l	97
13) Acrolein	2.251	56	27373	90.567	ug/l	98
14) Allyl chloride	2.684	41	120343	19.348	ug/l	99
15) Acrylonitrile	3.074	53	192637	119.356	ug/l	100
16) Acetone	2.391	43	155140	117.342	ug/l	98
17) Carbon Disulfide	2.532	76	124965	13.639	ug/l	98
18) Methyl Acetate	2.715	43	106167	30.466	ug/l	99
19) Methyl tert-butyl Ether	3.129	73	226902	22.999	ug/l	97
20) Methylene Chloride	2.806	84	75056	19.198	ug/l	98
21) trans-1,2-Dichloroethene	3.111	96	64223	17.965	ug/l	98
22) Diisopropyl ether	3.775	45	256906	21.379	ug/l	96
23) Vinyl Acetate	3.733	43	975222	108.326	ug/l	98
24) 1,1-Dichloroethane	3.623	63	132109	19.277	ug/l	99
25) 2-Butanone	4.568	43	241535	136.929	ug/l	98
26) 2,2-Dichloropropane	4.495	77	98068	19.227	ug/l	100
27) cis-1,2-Dichloroethene	4.507	96	84734	19.413	ug/l	98
28) Bromochloromethane	4.915	49	61188	18.091	ug/l	95
29) Tetrahydrofuran	5.019	42	152677	135.780	ug/l	99
30) Chloroform	5.104	83	139793	19.966	ug/l	97
31) Cyclohexane	5.482	56	111123	18.264	ug/l	95
32) 1,1,1-Trichloroethane	5.397	97	117326	20.057	ug/l	99
36) 1,1-Dichloropropene	5.708	75	91553	18.266	ug/l	99
37) Ethyl Acetate	4.732	43	95912	22.468	ug/l	98
38) Carbon Tetrachloride	5.690	117	97241	18.351	ug/l	99
39) Methylcyclohexane	7.384	83	109736	17.503	ug/l	99
40) Benzene	6.049	78	280563	18.507	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
 Data File : VX047022.D
 Acq On : 16 Jul 2025 12:11
 Operator : JC/MD
 Sample : VX0716WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0716WBS01

Quant Time: Jul 17 03:30:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
 Supervised By :Semsettin Yesilyurt 07/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.934	41	55723	24.470	ug/l	99
42) 1,2-Dichloroethane	6.104	62	103517	20.109	ug/l	100
43) Isopropyl Acetate	6.348	43	160694	24.576	ug/l	99
44) Trichloroethene	7.135	130	69390	17.584	ug/l	94
45) 1,2-Dichloropropane	7.433	63	74701	19.503	ug/l	100
46) Dibromomethane	7.586	93	53271	20.074	ug/l	96
47) Bromodichloromethane	7.823	83	109233	19.277	ug/l	99
48) Methyl methacrylate	7.695	41	84251	24.954	ug/l	96
49) 1,4-Dioxane	7.665	88	21671	553.964	ug/l	94
51) 4-Methyl-2-Pentanone	8.573	43	526373	136.404	ug/l	98
52) Toluene	8.720	92	178806	19.034	ug/l	100
53) t-1,3-Dichloropropene	8.982	75	103554	20.477	ug/l	96
54) cis-1,3-Dichloropropene	8.372	75	115124	19.944	ug/l	97
55) 1,1,2-Trichloroethane	9.152	97	73169	20.911	ug/l	98
56) Ethyl methacrylate	9.116	69	110706	22.859	ug/l	96
57) 1,3-Dichloropropane	9.311	76	123742	20.538	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.244	63	285968	104.797	ug/l	100
59) 2-Hexanone	9.433	43	360756	140.941	ug/l	100
60) Dibromochloromethane	9.518	129	79783	19.053	ug/l	99
61) 1,2-Dibromoethane	9.610	107	72648	20.673	ug/l	99
64) Tetrachloroethene	9.274	164	57157	17.464	ug/l	98
65) Chlorobenzene	10.079	112	201694	18.978	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.164	131	69777	19.530	ug/l	99
67) Ethyl Benzene	10.195	91	352718	19.379	ug/l	99
68) m/p-Xylenes	10.299	106	265041	38.645	ug/l	98
69) o-Xylene	10.640	106	130181	19.650	ug/l	99
70) Styrene	10.652	104	226617	19.994	ug/l	98
71) Bromoform	10.798	173	53339	20.079	ug/l #	100
73) Isopropylbenzene	10.963	105	353756	20.411	ug/l	99
74) N-amyl acetate	10.841	43	145739	24.745	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	111268	23.347	ug/l	99
76) 1,2,3-Trichloropropane	11.237	75	86885m	22.807	ug/l	
77) Bromobenzene	11.195	156	84072	19.474	ug/l	96
78) n-propylbenzene	11.305	91	415279	19.871	ug/l	99
79) 2-Chlorotoluene	11.365	91	246338	19.963	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	286868	20.370	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	30710	21.633	ug/l	94
82) 4-Chlorotoluene	11.451	91	288682	20.272	ug/l	99
83) tert-Butylbenzene	11.713	119	295179	20.294	ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	291448	20.475	ug/l	98
85) sec-Butylbenzene	11.890	105	370037	20.178	ug/l	99
86) p-Isopropyltoluene	12.006	119	308064	20.060	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	159442	19.748	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	161561	19.227	ug/l	99
89) n-Butylbenzene	12.329	91	286179	19.832	ug/l	99
90) Hexachloroethane	12.536	117	49332	18.120	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	154014	19.685	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.938	75	20327	24.386	ug/l	97
93) 1,2,4-Trichlorobenzene	13.585	180	106027	19.947	ug/l	100
94) Hexachlorobutadiene	13.725	225	36465	18.191	ug/l	97
95) Naphthalene	13.774	128	335145	23.928	ug/l	100
96) 1,2,3-Trichlorobenzene	13.956	180	101316	20.173	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
Data File : VX047022.D
Acq On : 16 Jul 2025 12:11
Operator : JC/MD
Sample : VX0716WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 17 03:30:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

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

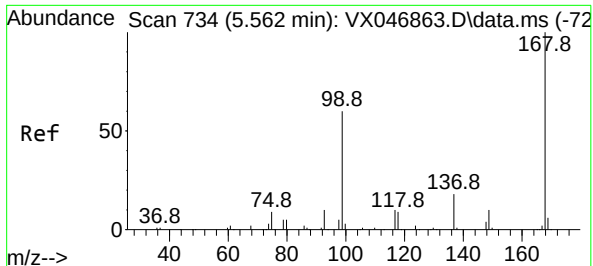
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBS01

Manual Integrations

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025





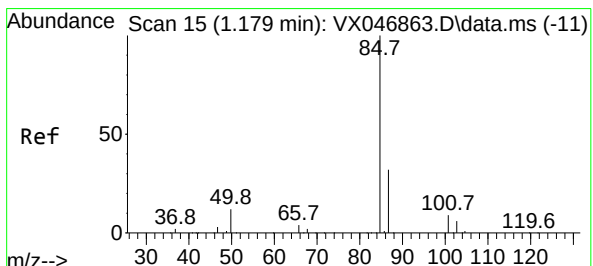
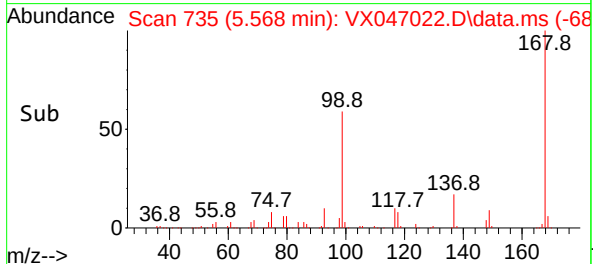
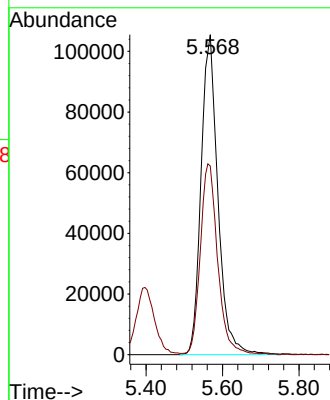
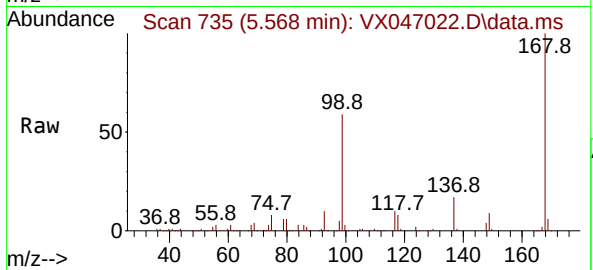
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Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBS01

Tgt Ion:168 Resp: 32218
Ion Ratio Lower Upper
168 100
99 59.0 48.8 73.2

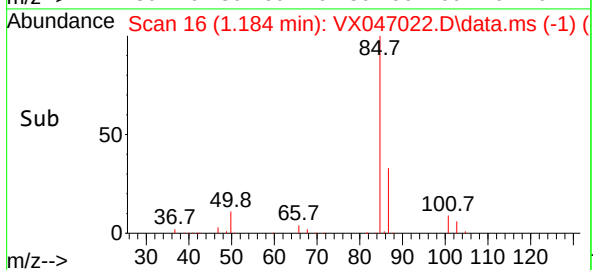
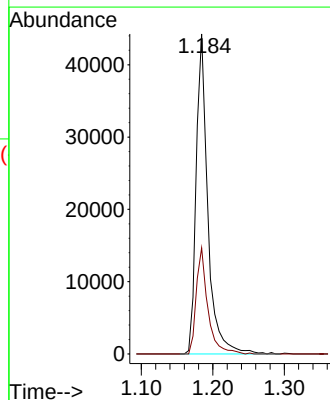
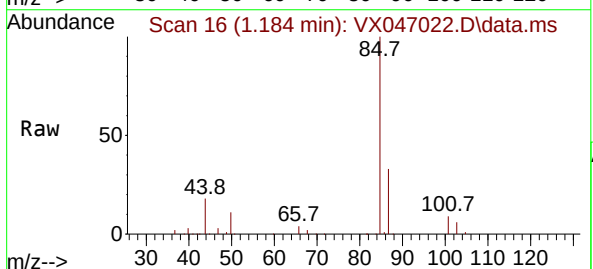
Manual Integrations
APPROVED

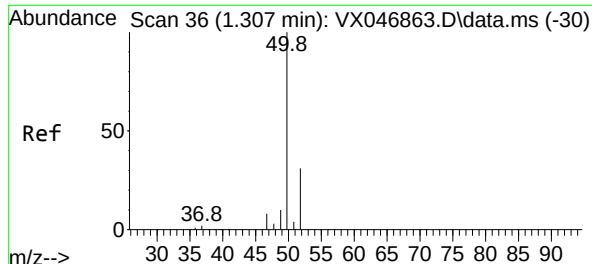
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#2
Dichlorodifluoromethane
Concen: 16.246 ug/l
RT: 1.184 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 85 Resp: 50056
Ion Ratio Lower Upper
85 100
87 33.2 16.0 47.9





#3

Chloromethane

Concen: 16.067 ug/l

RT: 1.306 min Scan# 30

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 50 Resp: 5408

Ion Ratio Lower Upper

50 100

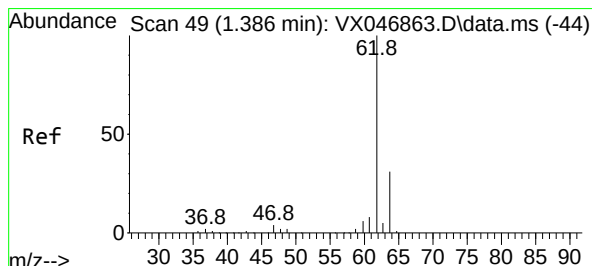
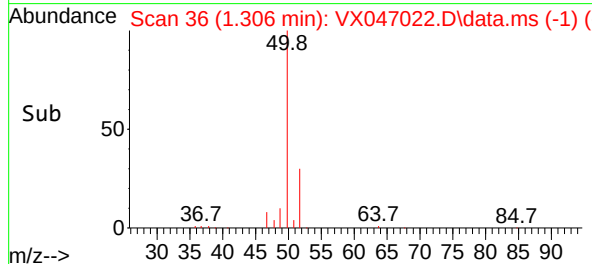
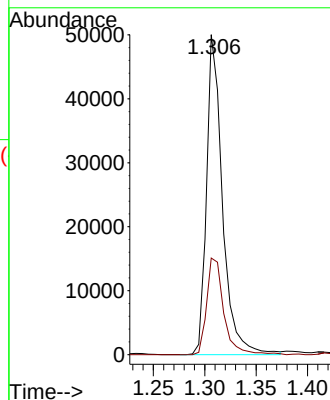
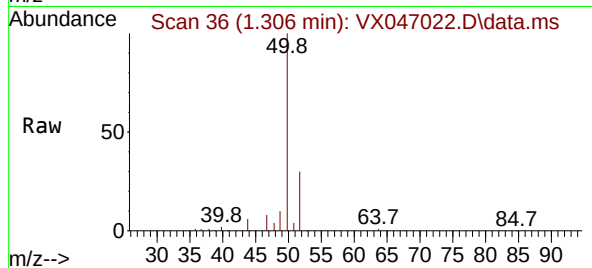
52 30.2 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#4

Vinyl Chloride

Concen: 16.560 ug/l

RT: 1.386 min Scan# 49

Delta R.T. -0.000 min

Lab File: VX047022.D

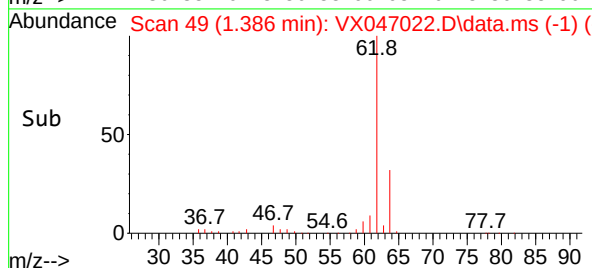
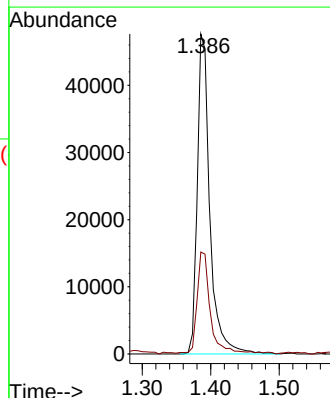
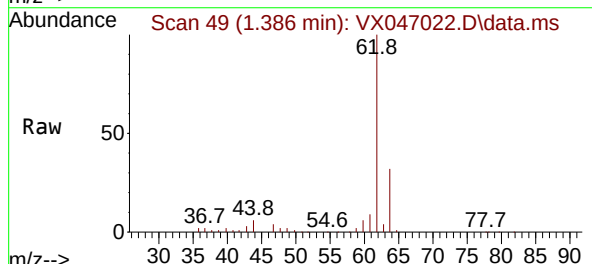
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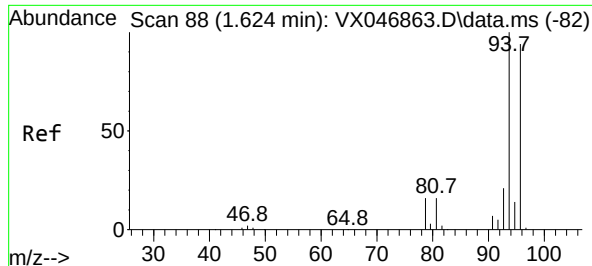
Tgt Ion: 62 Resp: 60709

Ion Ratio Lower Upper

62 100

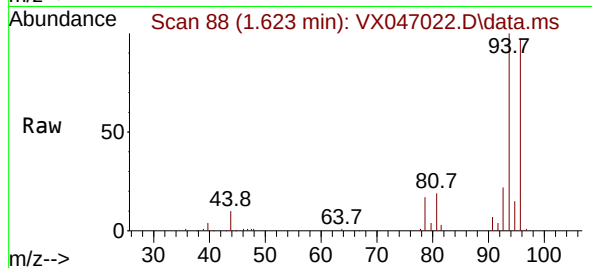
64 31.6 25.0 37.4





#5
Bromomethane
Concen: 17.116 ug/l
RT: 1.623 min Scan# 88
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

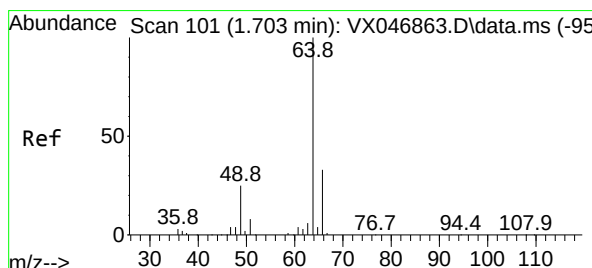
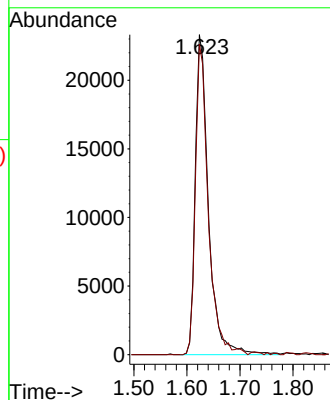
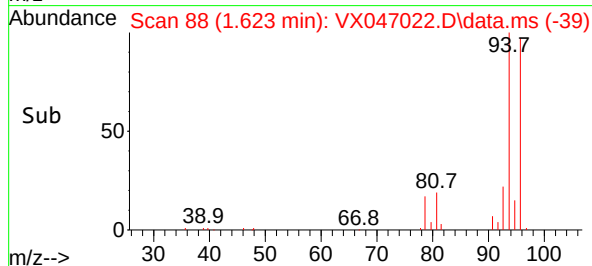
Instrument :
MSVOA_X
Client SampleId :
VX0716WBS01



Tgt Ion: 94 Resp: 40310
Ion Ratio Lower Upper
94 100
96 97.0 75.5 113.3

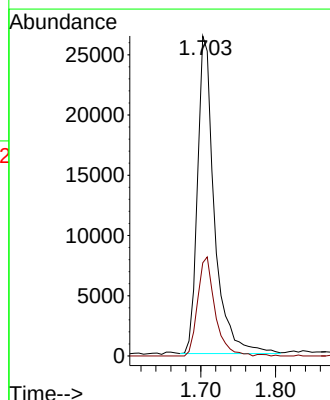
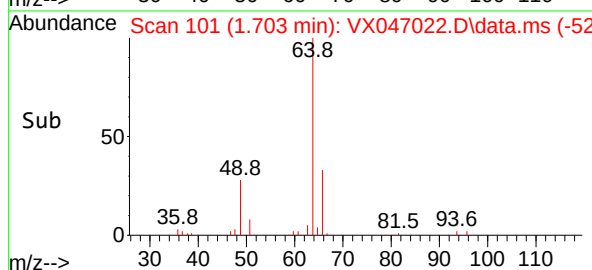
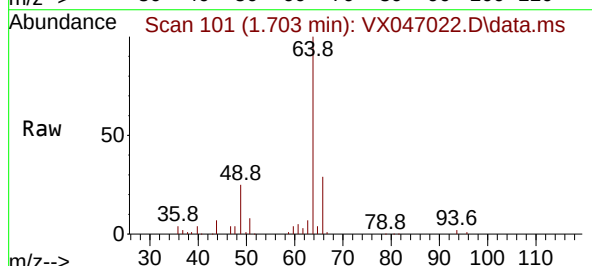
Manual Integrations
APPROVED

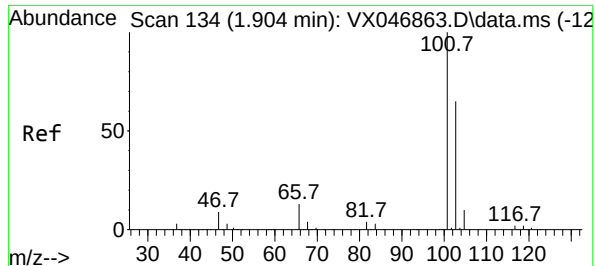
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#6
Chloroethane
Concen: 17.067 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

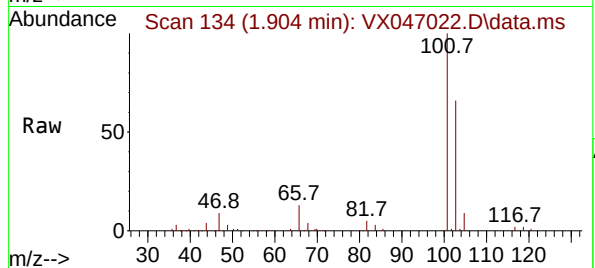
Tgt Ion: 64 Resp: 41315
Ion Ratio Lower Upper
64 100
66 29.3 26.4 39.6





#7
Trichlorofluoromethane
Concen: 17.921 ug/l
RT: 1.904 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

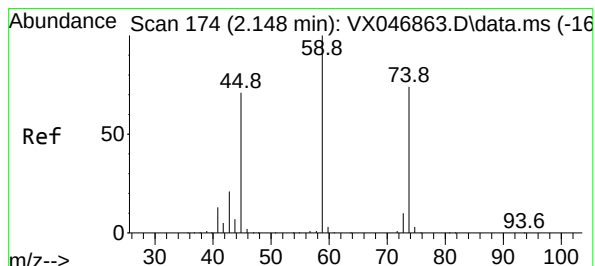
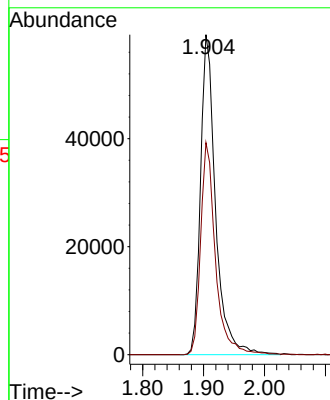
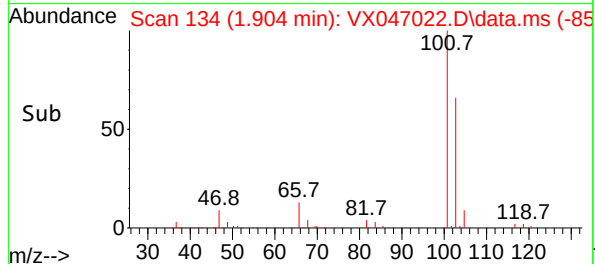
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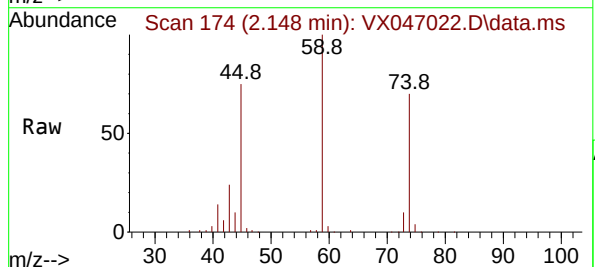
Tgt Ion:101 Resp: 10158
Ion Ratio Lower Upper
101 100
103 66.3 51.9 77.9

Manual Integrations
APPROVED

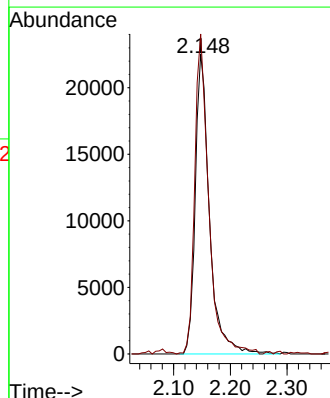
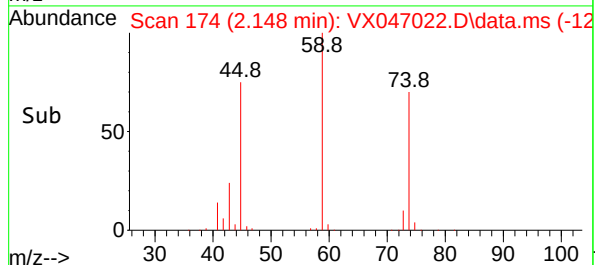
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

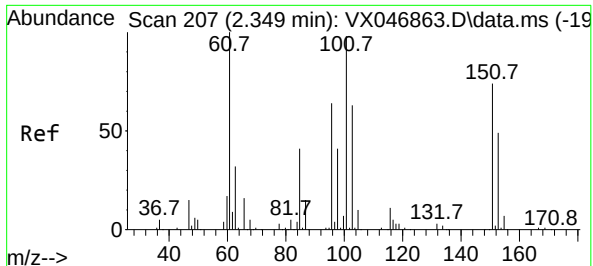


#8
Diethyl Ether
Concen: 19.400 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11



Tgt Ion: 74 Resp: 39134
Ion Ratio Lower Upper
74 100
45 105.3 50.7 152.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.055 ug/l

RT: 2.349 min Scan# 207

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

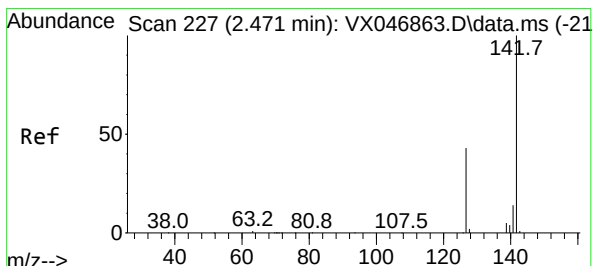
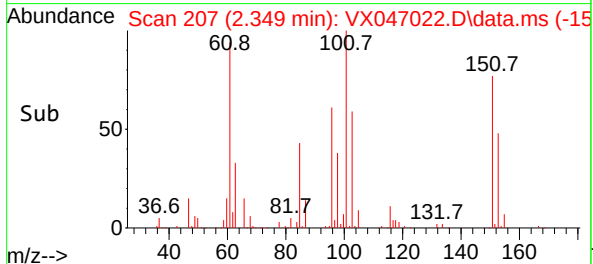
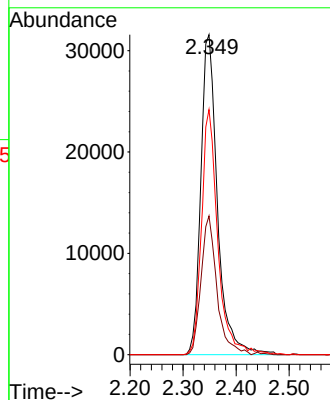
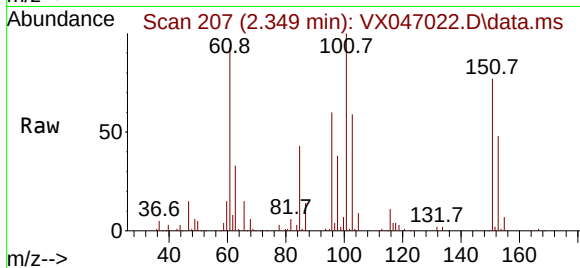
VX0716WBS01

Tgt Ion:	101	Resp:	6882
Ion	Ratio	Lower	Upper
101	100		
85	41.5	34.3	51.5
151	75.3	59.9	89.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#10

Methyl Iodide

Concen: 15.190 ug/l

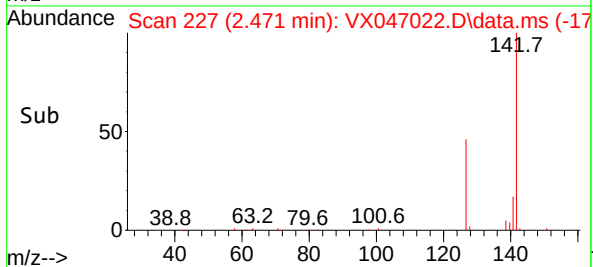
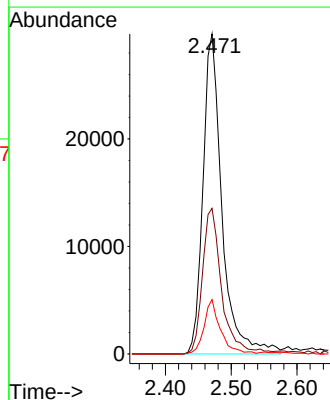
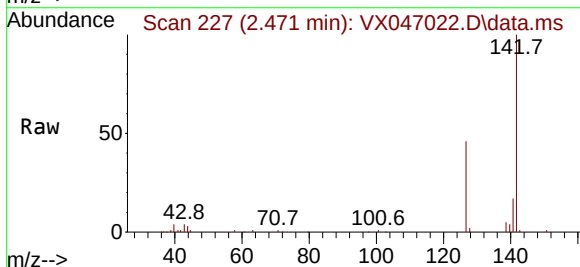
RT: 2.471 min Scan# 227

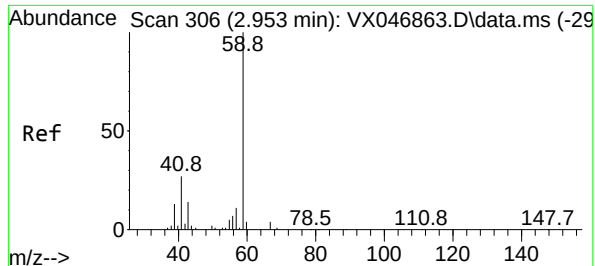
Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Tgt Ion:	142	Resp:	59775
Ion	Ratio	Lower	Upper
142	100		
127	45.9	34.9	52.3
141	14.7	11.1	16.7





#11

Tert butyl alcohol

Concen: 162.807 ug/l

RT: 2.965 min Scan# 306

Delta R.T. 0.012 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 59 Resp: 4544

Ion Ratio Lower Upper

59 100

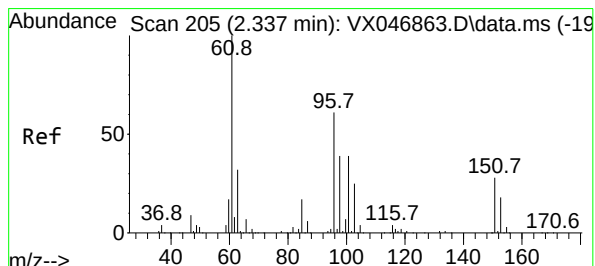
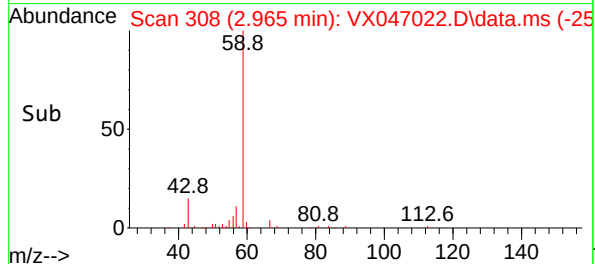
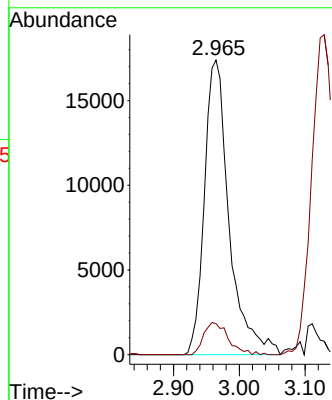
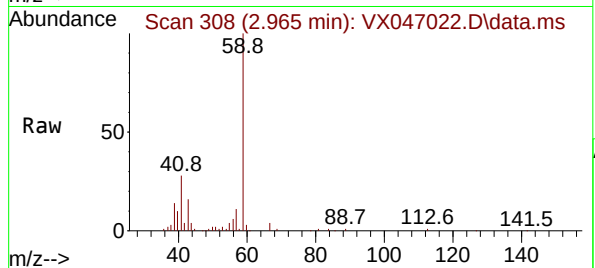
57 10.9 8.5 12.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#12

1,1-Dichloroethene

Concen: 17.658 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

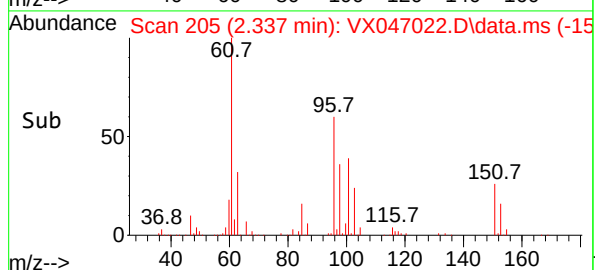
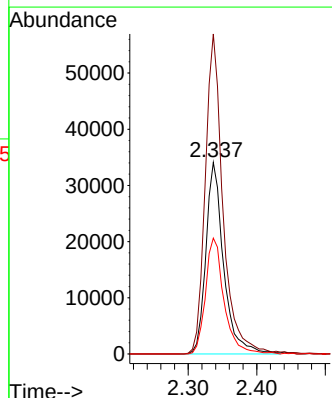
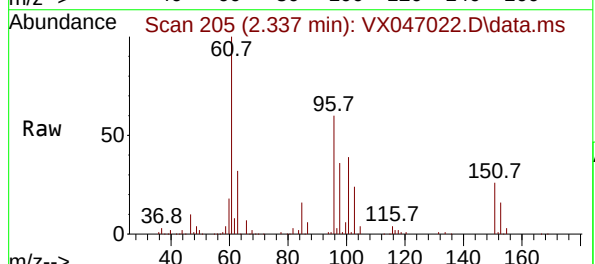
Tgt Ion: 96 Resp: 61691

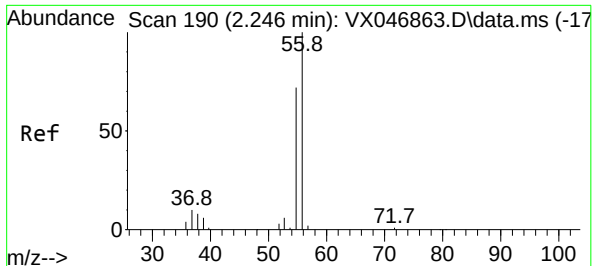
Ion Ratio Lower Upper

96 100

61 167.1 130.2 195.4

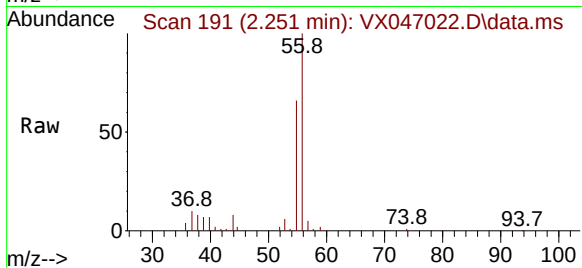
98 63.0 51.3 76.9





#13
Acrolein
Concen: 90.567 ug/l
RT: 2.251 min Scan# 190
Delta R.T. 0.005 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

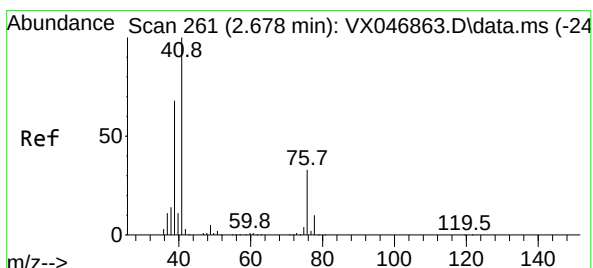
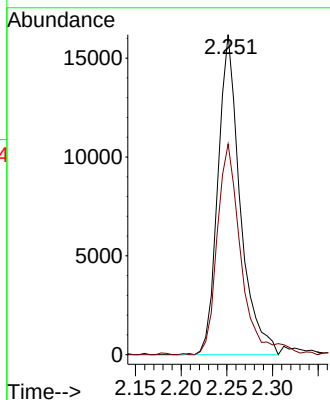
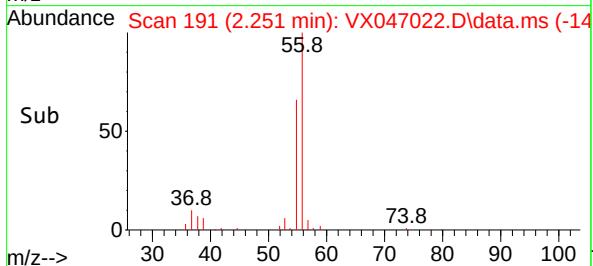
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBS01



Tgt Ion: 56 Resp: 2737
Ion Ratio Lower Upper
56 100
55 70.9 55.5 83.3

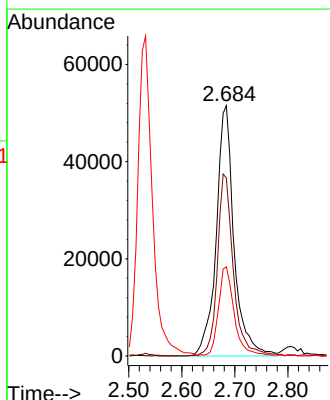
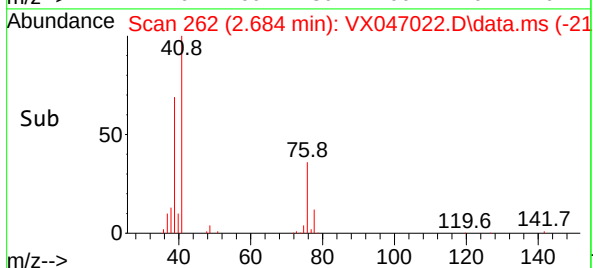
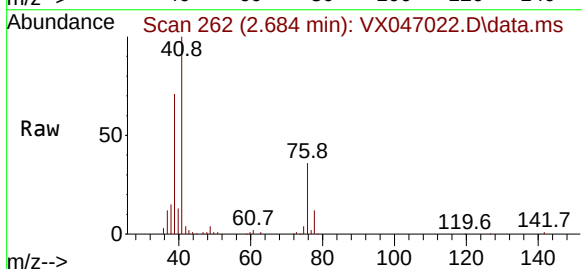
Manual Integrations
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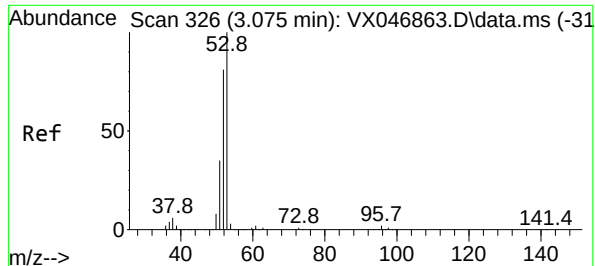
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#14
Allyl chloride
Concen: 19.348 ug/l
RT: 2.684 min Scan# 262
Delta R.T. 0.006 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 41 Resp: 120343
Ion Ratio Lower Upper
41 100
39 65.3 52.0 78.0
76 31.6 26.2 39.2





#15

Acrylonitrile

Concen: 119.356 ug/l

RT: 3.074 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 53 Resp: 19263

Ion Ratio Lower Upper

53 100

52 82.5 66.0 99.0

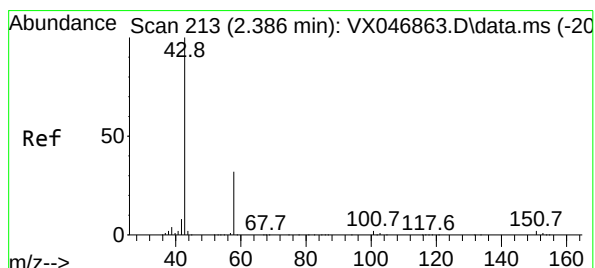
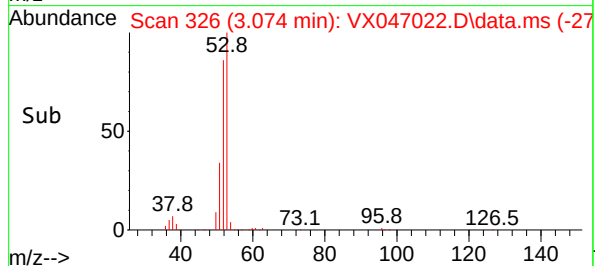
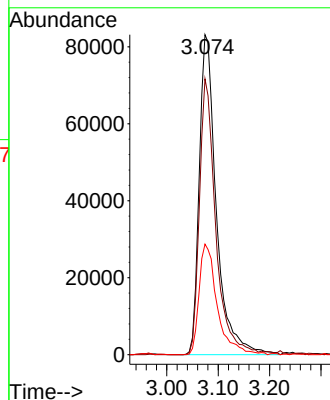
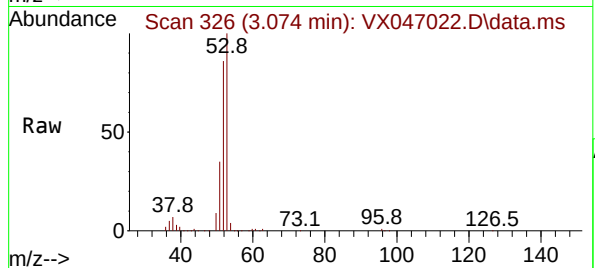
51 36.7 28.6 43.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#16

Acetone

Concen: 117.342 ug/l

RT: 2.391 min Scan# 214

Delta R.T. 0.006 min

Lab File: VX047022.D

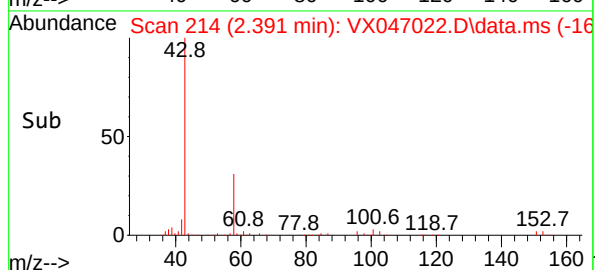
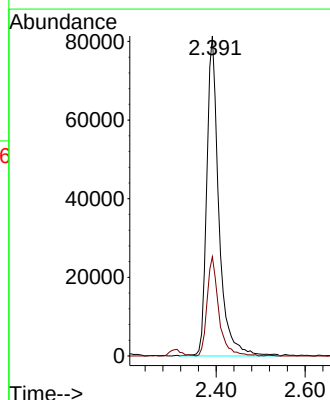
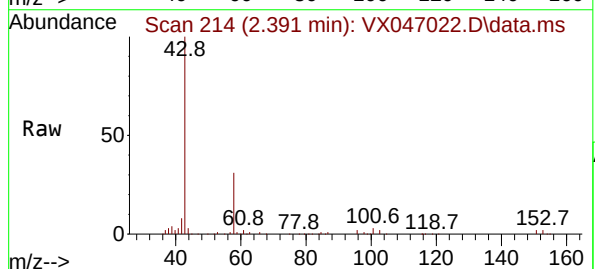
Acq: 16 Jul 2025 12:11

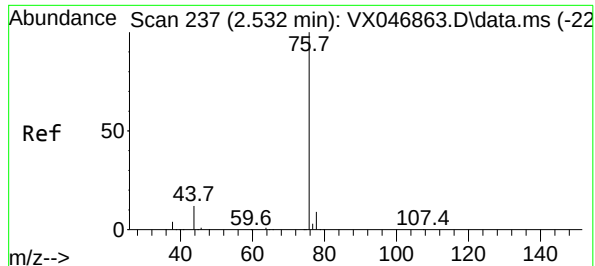
Tgt Ion: 43 Resp: 155140

Ion Ratio Lower Upper

43 100

58 31.0 25.8 38.6





#17

Carbon Disulfide

Concen: 13.639 ug/l

RT: 2.532 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 76 Resp: 12496

Ion Ratio Lower Upper

76 100

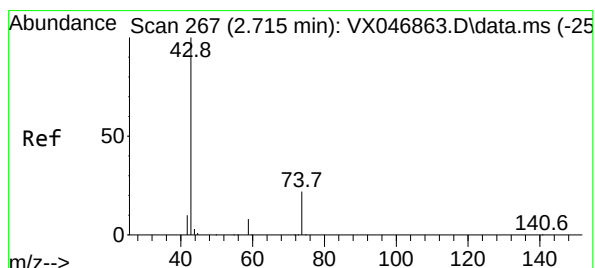
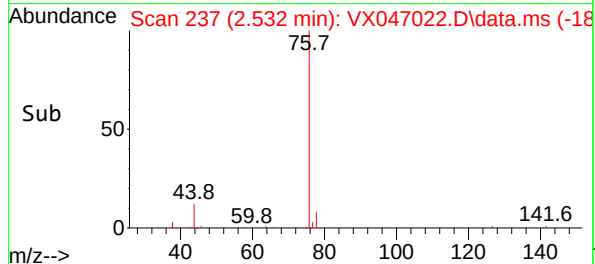
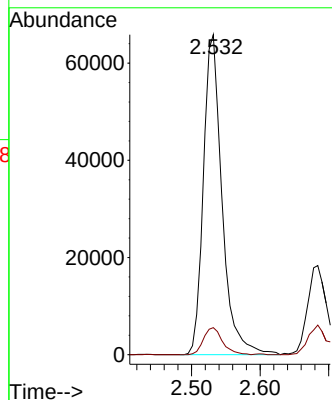
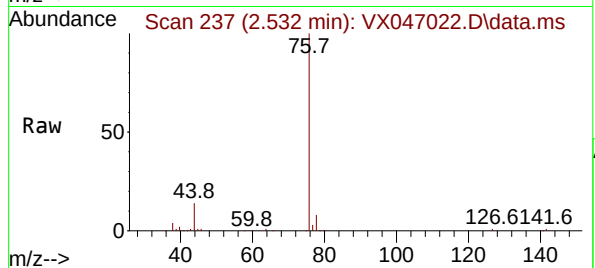
78 8.7 7.4 11.2

Manual Integrations

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Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#18

Methyl Acetate

Concen: 30.466 ug/l

RT: 2.715 min Scan# 267

Delta R.T. -0.000 min

Lab File: VX047022.D

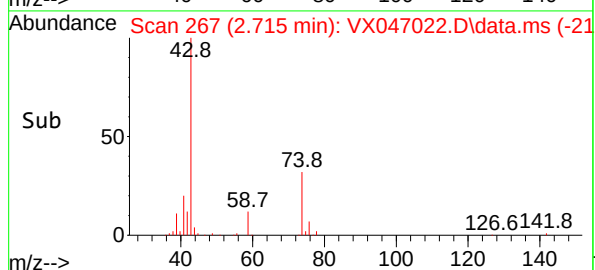
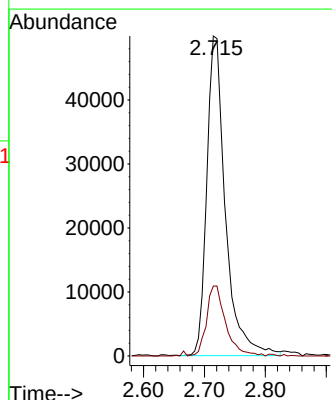
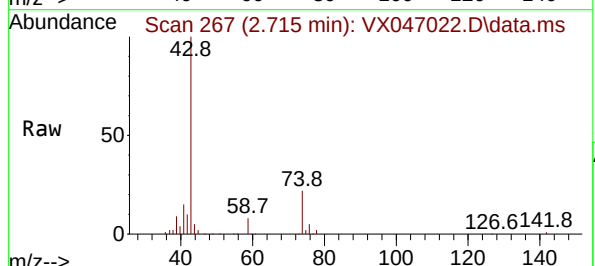
Acq: 16 Jul 2025 12:11

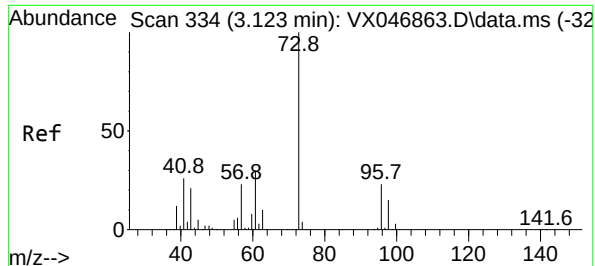
Tgt Ion: 43 Resp: 106167

Ion Ratio Lower Upper

43 100

74 22.4 18.3 27.5





#19

Methyl tert-butyl Ether

Concen: 22.999 ug/l

RT: 3.129 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 73 Resp: 22690

Ion Ratio Lower Upper

73 100

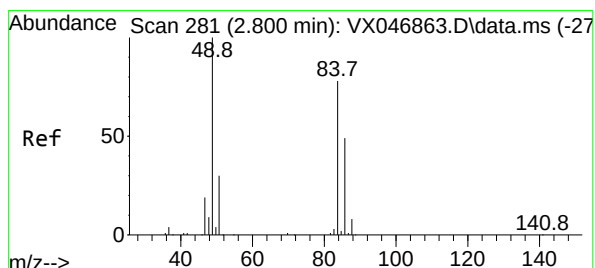
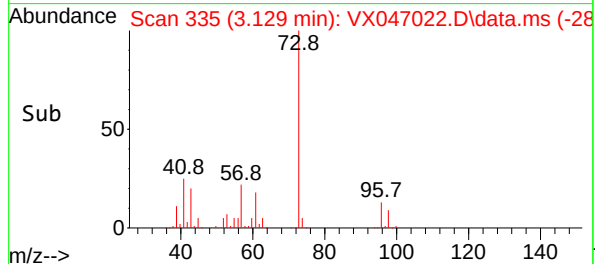
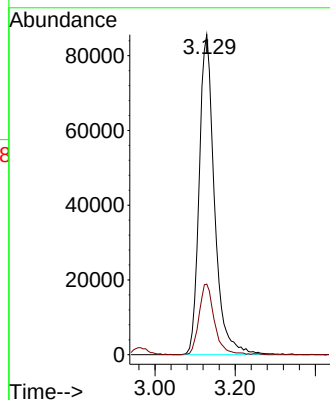
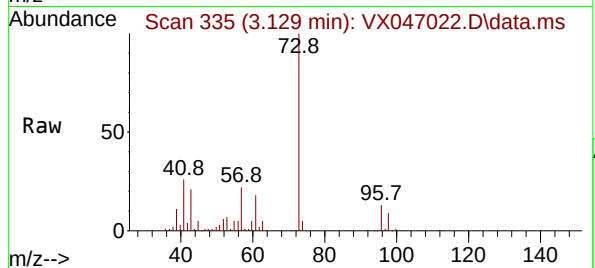
57 22.1 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#20

Methylene Chloride

Concen: 19.198 ug/l

RT: 2.806 min Scan# 282

Delta R.T. 0.006 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Tgt Ion: 84 Resp: 75056

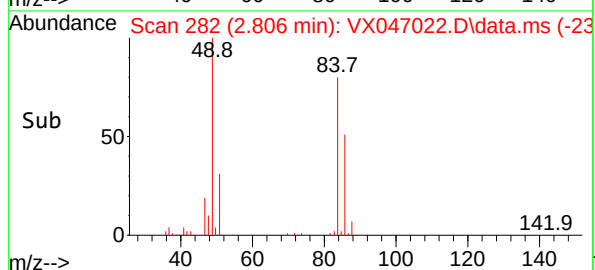
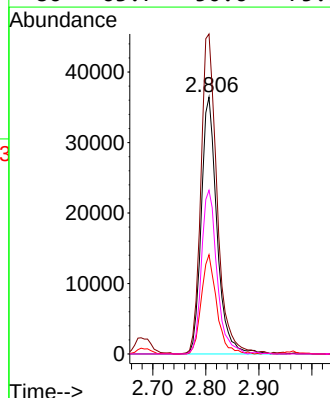
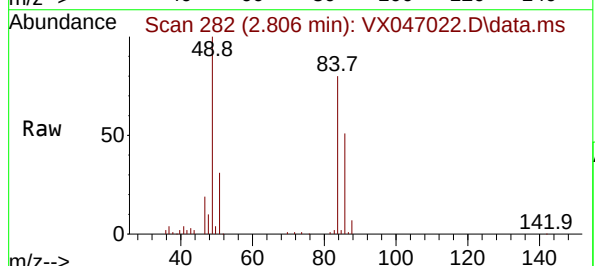
Ion Ratio Lower Upper

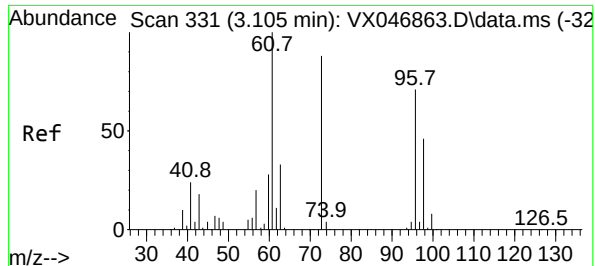
84 100

49 124.6 102.8 154.2

51 38.7 31.1 46.7

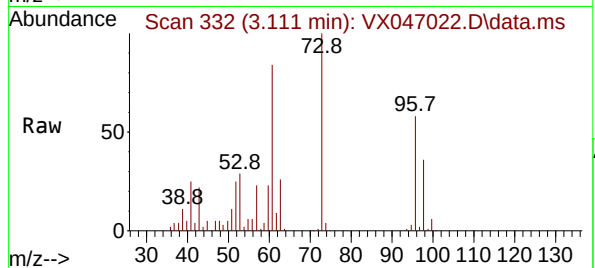
86 63.7 50.6 75.8





#21
trans-1,2-Dichloroethene
Concen: 17.965 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.006 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

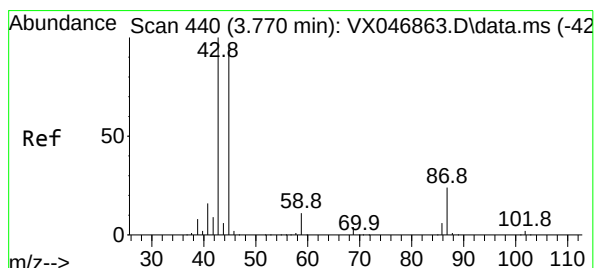
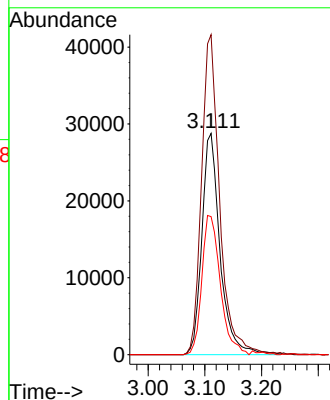
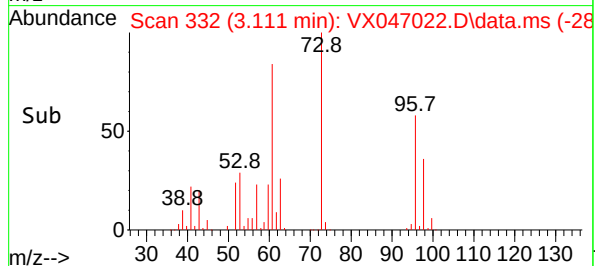
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBS01



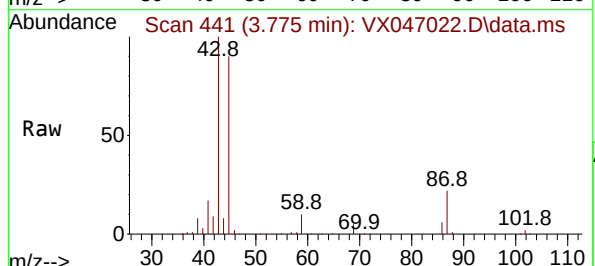
Tgt Ion: 96 Resp: 6422
Ion Ratio Lower Upper
96 100
61 144.6 113.4 170.2
98 62.4 51.8 77.6

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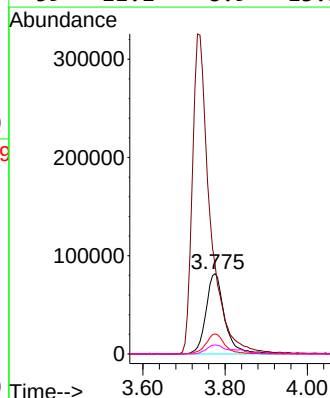
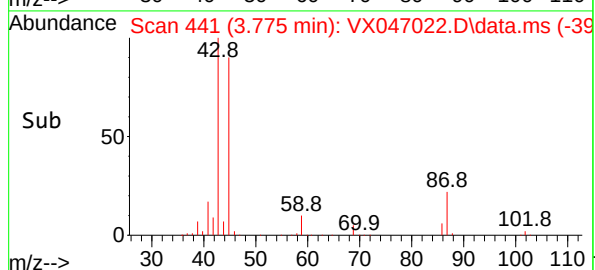
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

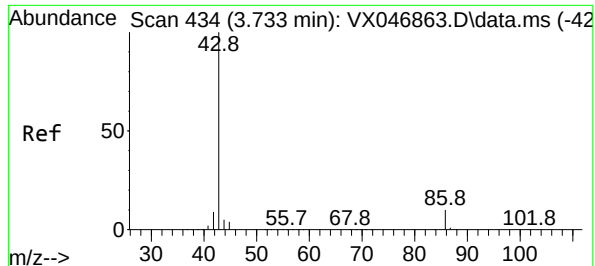


#22
Diisopropyl ether
Concen: 21.379 ug/l
RT: 3.775 min Scan# 441
Delta R.T. 0.006 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11



Tgt Ion: 45 Resp: 256906
Ion Ratio Lower Upper
45 100
43 110.2 84.2 126.4
87 24.8 20.3 30.5
59 11.1 8.9 13.3





#23

Vinyl Acetate

Concen: 108.326 ug/l

RT: 3.733 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Tgt Ion: 43 Resp: 97522

Ion Ratio Lower Upper

43 100

86 9.5 8.2 12.4

Instrument :

MSVOA_X

ClientSampleId :

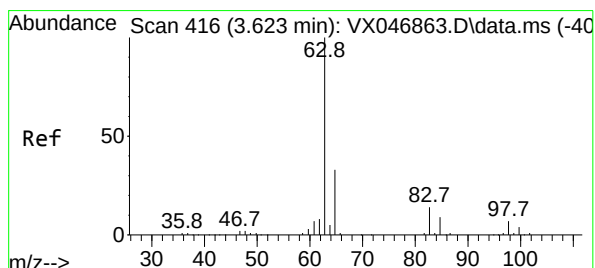
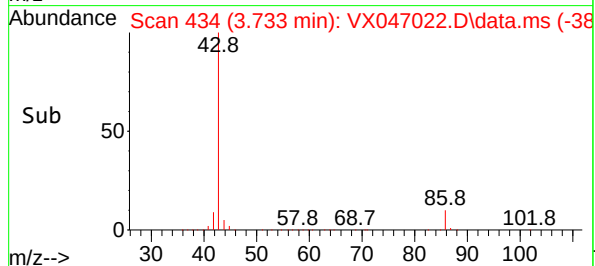
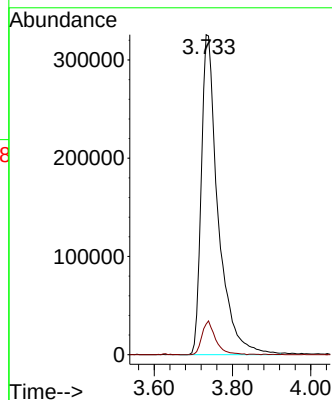
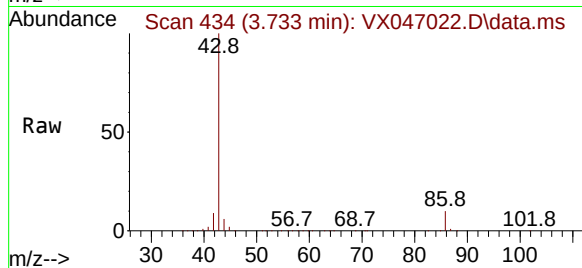
VX0716WBS01

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#24

1,1-Dichloroethane

Concen: 19.277 ug/l

RT: 3.623 min Scan# 416

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

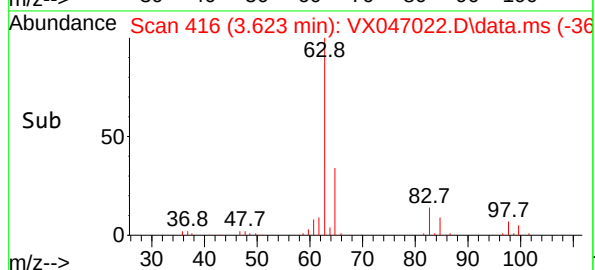
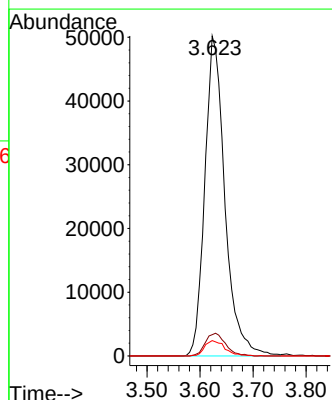
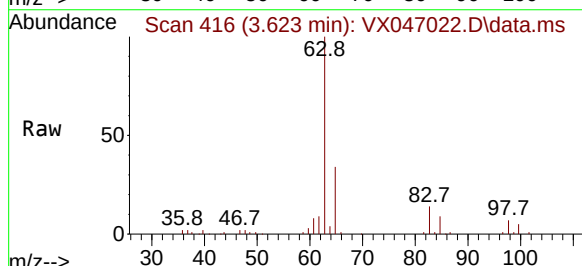
Tgt Ion: 63 Resp: 132109

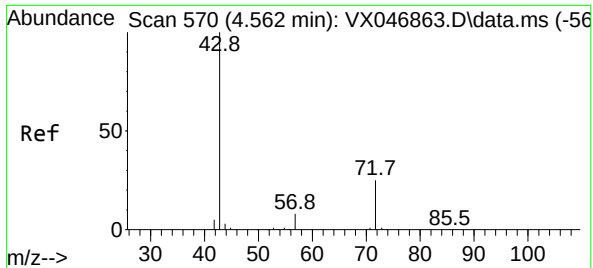
Ion Ratio Lower Upper

63 100

98 6.7 3.6 10.9

100 4.8 2.3 6.9





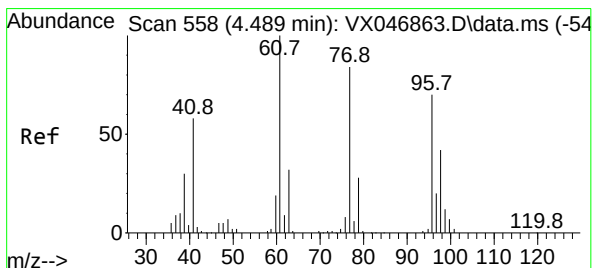
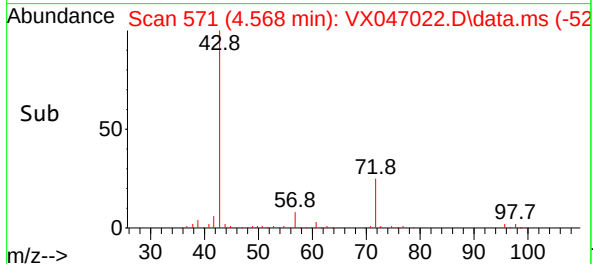
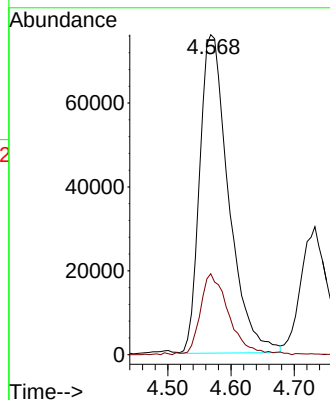
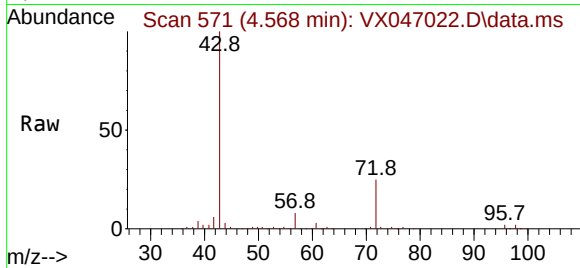
#25
2-Butanone
Concen: 136.929 ug/l
RT: 4.568 min Scan# 51
Delta R.T. 0.006 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBS01

Tgt Ion: 43 Resp: 24153
Ion Ratio Lower Upper
43 100
72 26.1 20.0 30.0

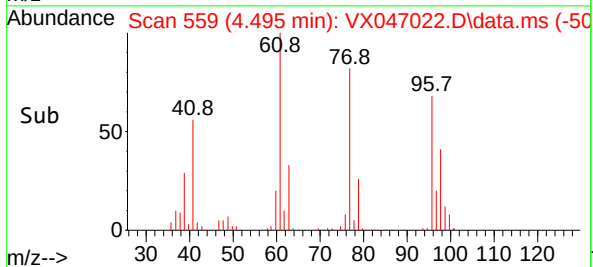
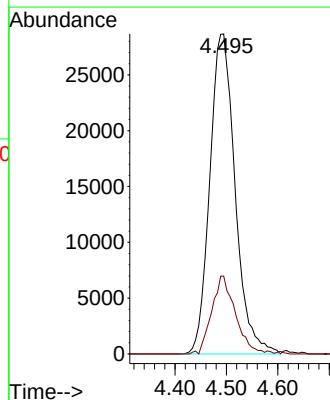
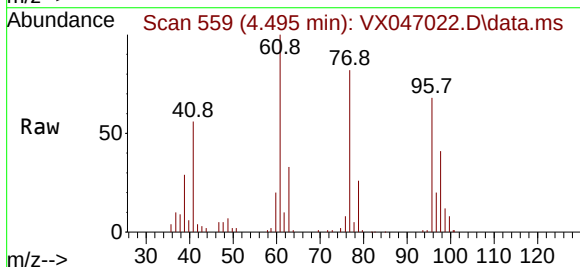
Manual Integrations
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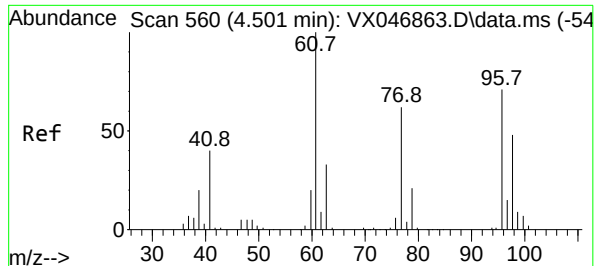
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#26
2,2-Dichloropropane
Concen: 19.227 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.006 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 77 Resp: 98068
Ion Ratio Lower Upper
77 100
97 22.8 11.5 34.5





#27

cis-1,2-Dichloroethene

Concen: 19.413 ug/l

RT: 4.507 min Scan# 50

Delta R.T. 0.006 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 96 Resp: 84734

Ion Ratio Lower Upper

96 100

61 147.4 0.0 288.6

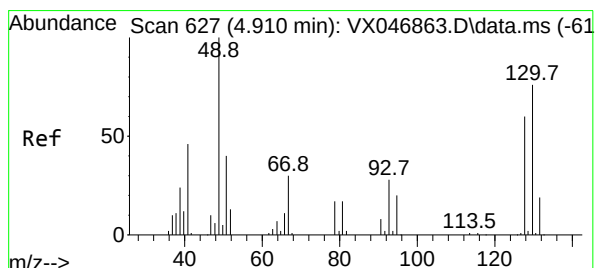
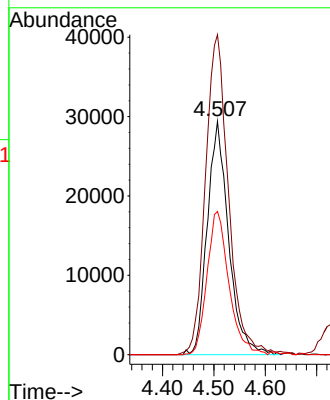
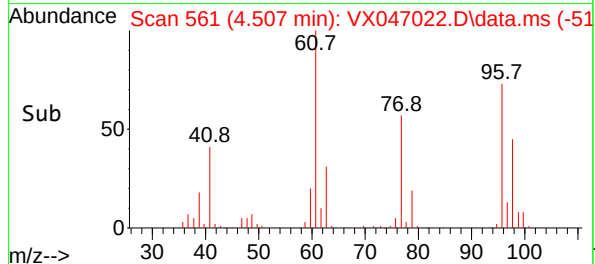
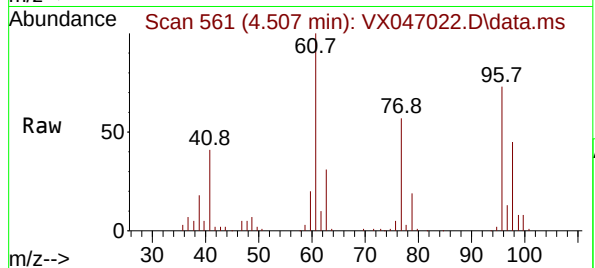
98 63.1 0.0 128.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#28

Bromochloromethane

Concen: 18.091 ug/l

RT: 4.915 min Scan# 628

Delta R.T. 0.006 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

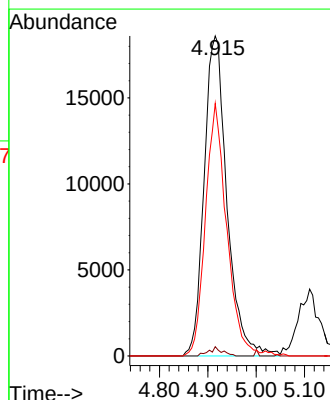
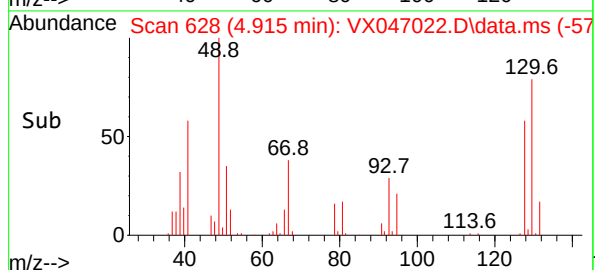
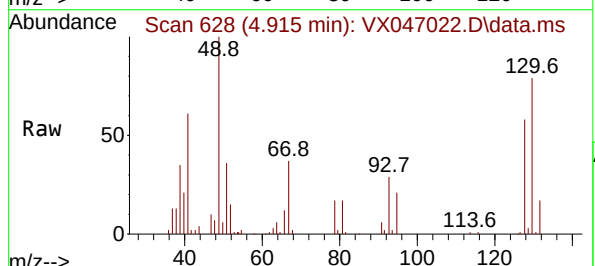
Tgt Ion: 49 Resp: 61188

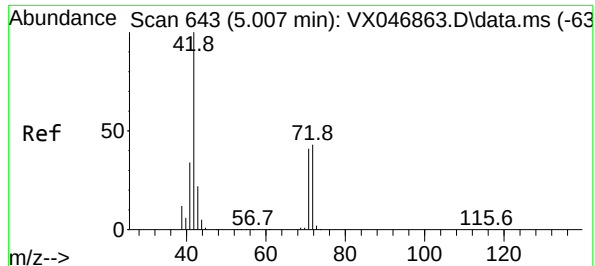
Ion Ratio Lower Upper

49 100

129 1.7 0.0 4.2

130 72.8 61.7 92.5





#29

Tetrahydrofuran

Concen: 135.780 ug/l

RT: 5.019 min Scan# 643

Delta R.T. 0.012 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 42 Resp: 15267

Ion Ratio Lower Upper

42 100

72 42.7 35.1 52.7

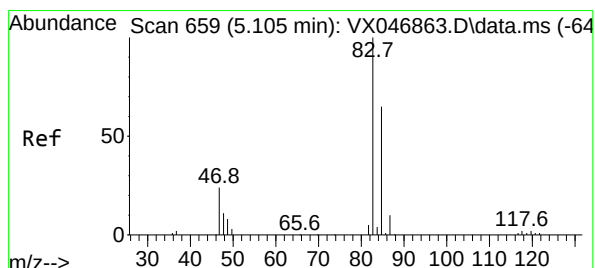
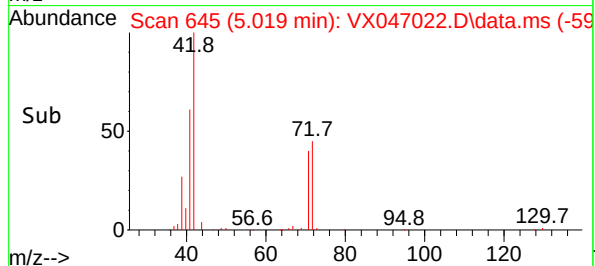
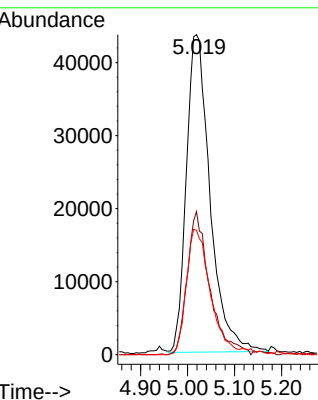
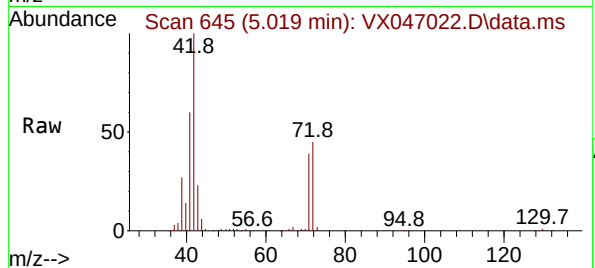
71 39.7 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#30

Chloroform

Concen: 19.966 ug/l

RT: 5.104 min Scan# 659

Delta R.T. -0.000 min

Lab File: VX047022.D

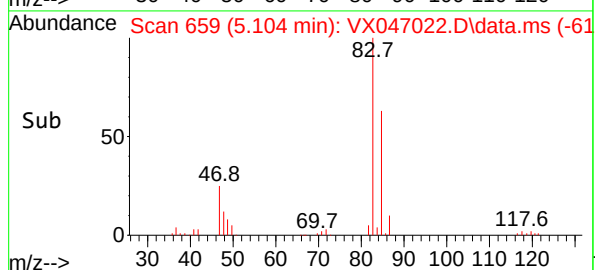
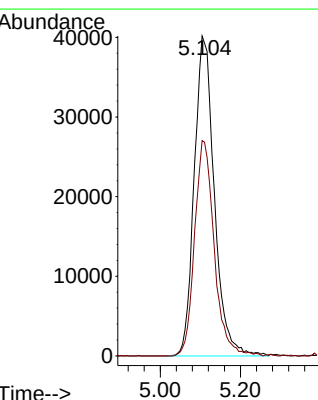
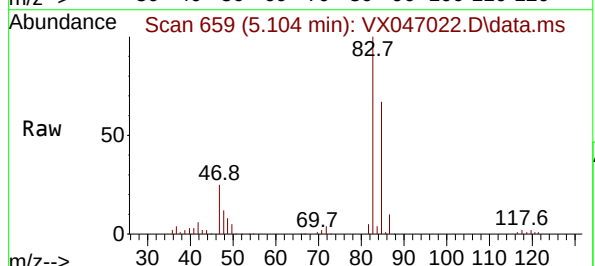
Acq: 16 Jul 2025 12:11

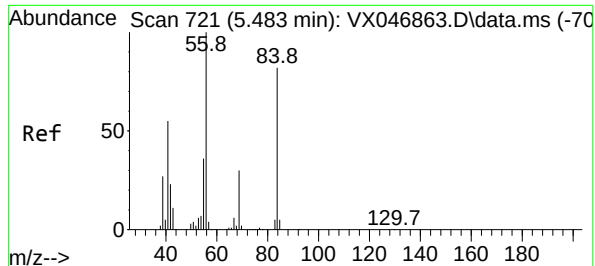
Tgt Ion: 83 Resp: 139793

Ion Ratio Lower Upper

83 100

85 67.3 51.8 77.8





#31

Cyclohexane

Concen: 18.264 ug/l

RT: 5.482 min Scan# 721

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 56 Resp: 11112

Ion Ratio Lower Upper

56 100

69 29.9 24.0 36.0

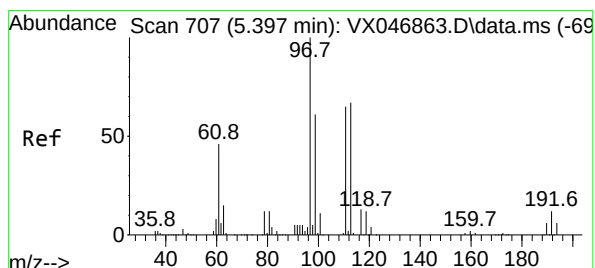
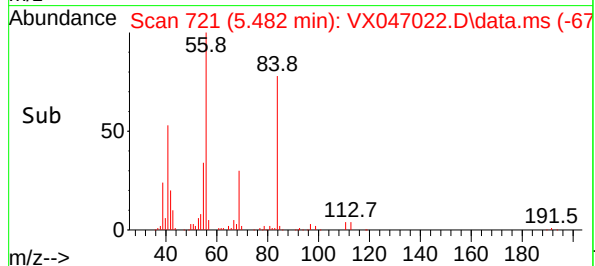
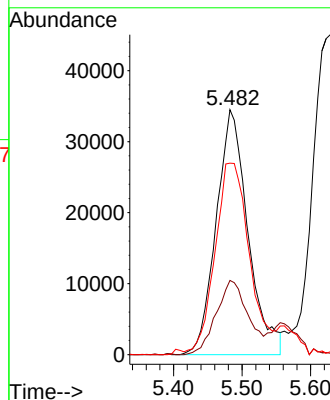
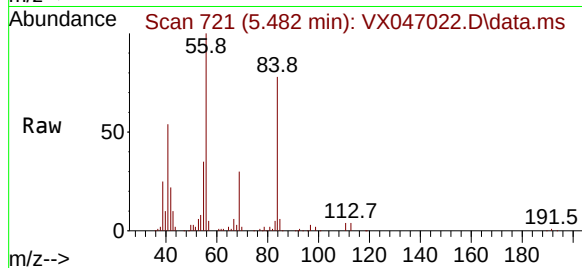
84 76.5 66.5 99.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#32

1,1,1-Trichloroethane

Concen: 20.057 ug/l

RT: 5.397 min Scan# 707

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

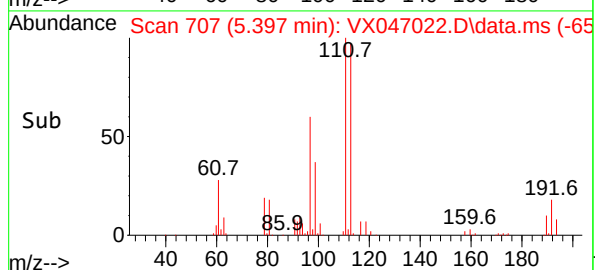
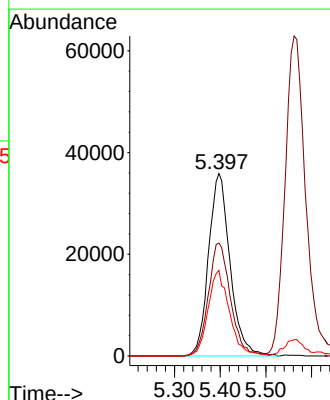
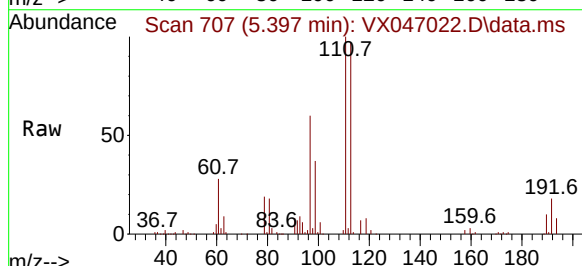
Tgt Ion: 97 Resp: 117326

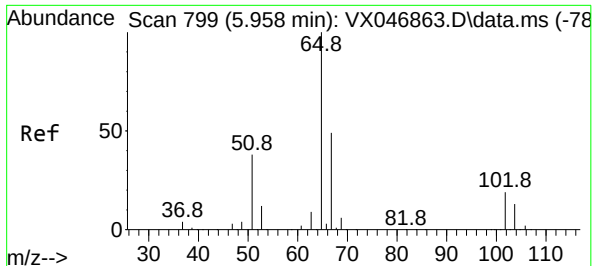
Ion Ratio Lower Upper

97 100

99 63.2 50.6 76.0

61 46.6 36.3 54.5





#33

1,2-Dichloroethane-d4

Concen: 52.350 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.006 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 65 Resp: 22282

Ion Ratio Lower Upper

65 100

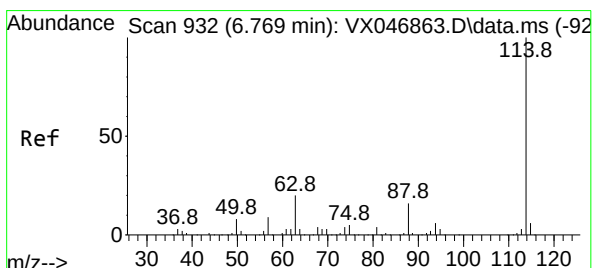
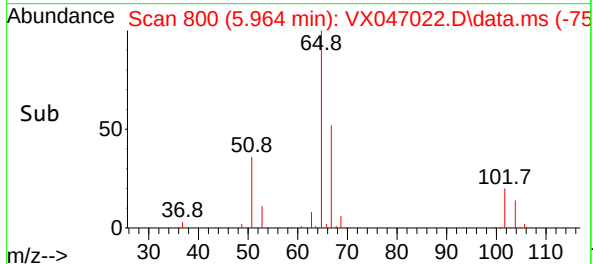
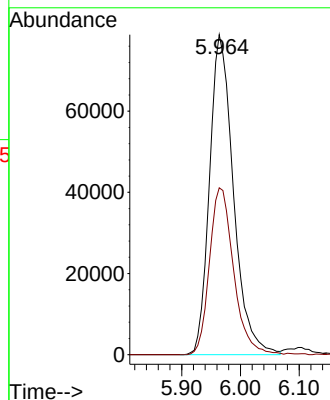
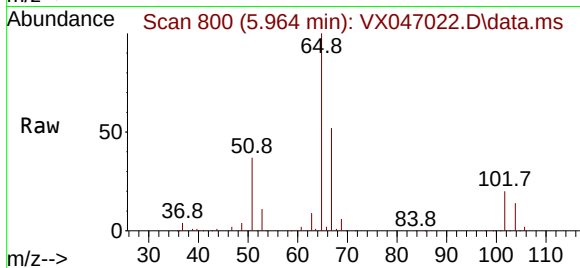
67 52.6 0.0 105.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

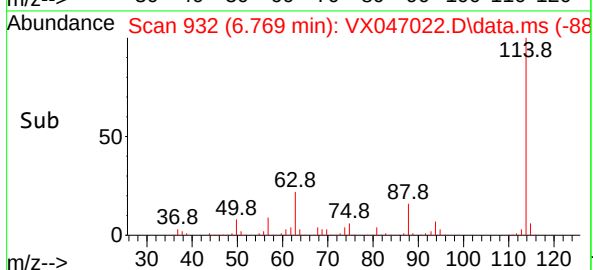
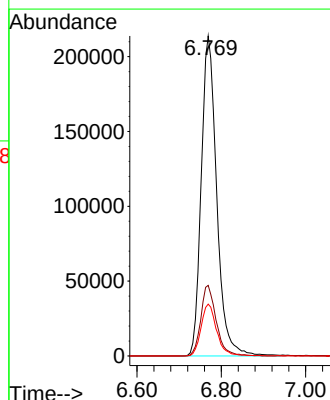
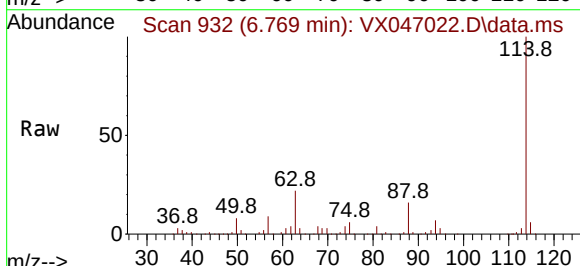
Tgt Ion:114 Resp: 547259

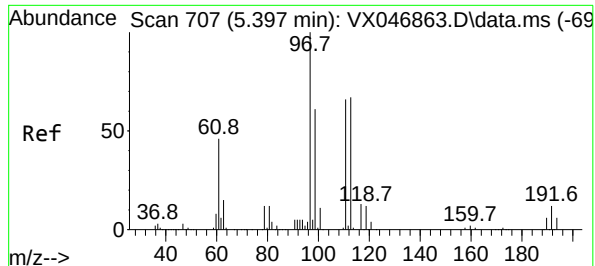
Ion Ratio Lower Upper

114 100

63 22.1 0.0 40.4

88 16.2 0.0 31.0





#35

Dibromofluoromethane

Concen: 48.803 ug/l

RT: 5.397 min Scan# 707

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

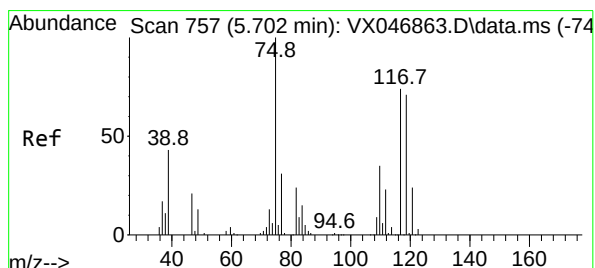
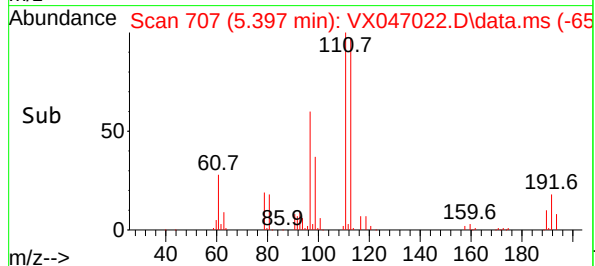
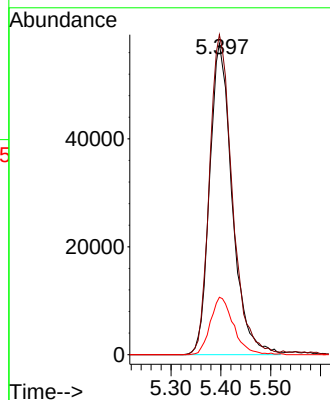
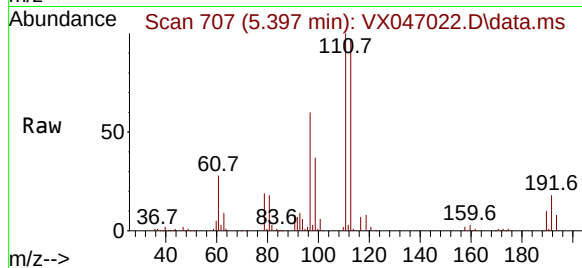
Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion:	113	Resp:	181294
Ion Ratio	Lower	Upper	
113	100		
111	104.1	81.2	121.8
192	19.0	15.3	22.9

Manual Integrations
APPROVEDReviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

#36

1,1-Dichloropropene

Concen: 18.266 ug/l

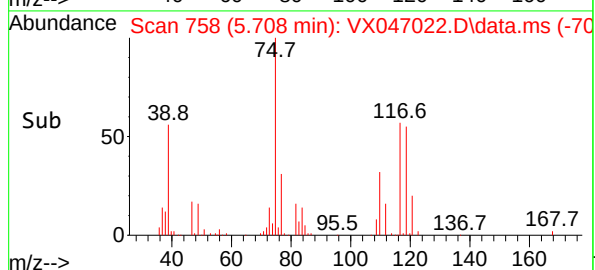
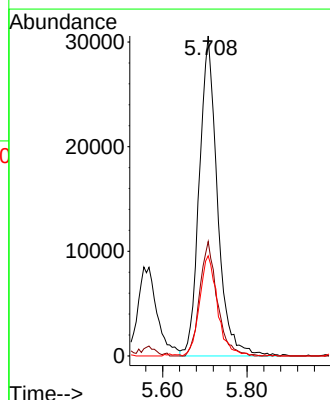
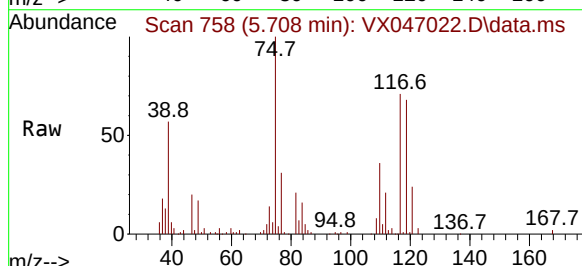
RT: 5.708 min Scan# 758

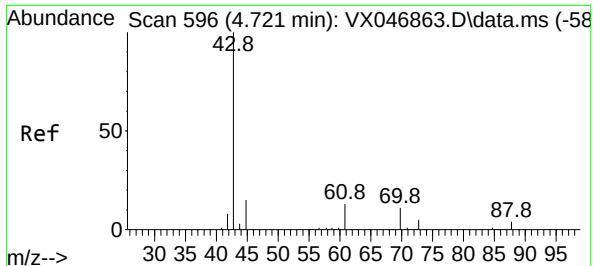
Delta R.T. 0.006 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Tgt Ion:	75	Resp:	91553
Ion Ratio	Lower	Upper	
75	100		
110	34.7	17.3	51.9
77	31.1	24.2	36.4





#37

Ethyl Acetate

Concen: 22.468 ug/l

RT: 4.732 min Scan# 596

Delta R.T. 0.012 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

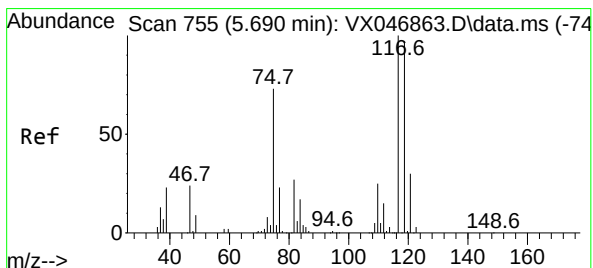
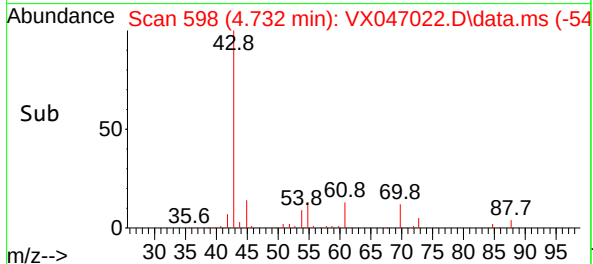
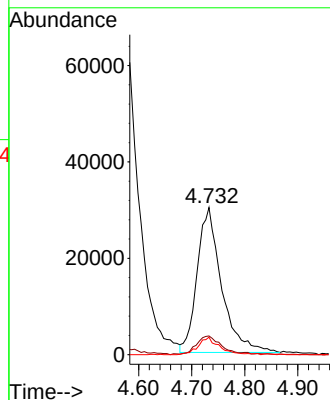
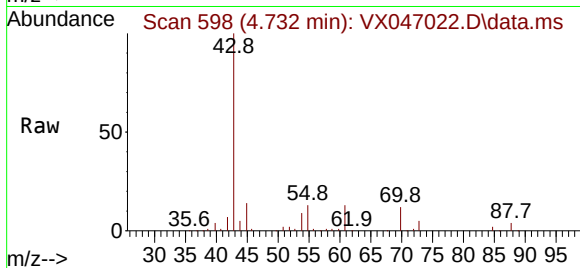
ClientSampleId :

VX0716WBS01

Tgt Ion:	43	Resp:	9591
Ion	Ratio	Lower	Upper
43	100		
61	13.6	9.7	14.5
70	10.5	8.3	12.5

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#38

Carbon Tetrachloride

Concen: 18.351 ug/l

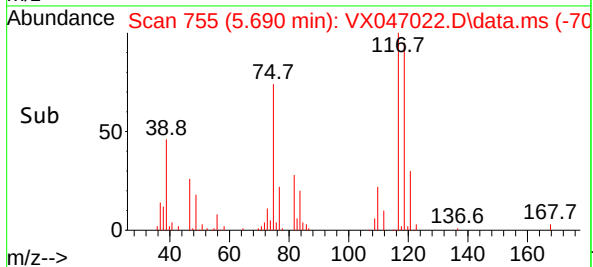
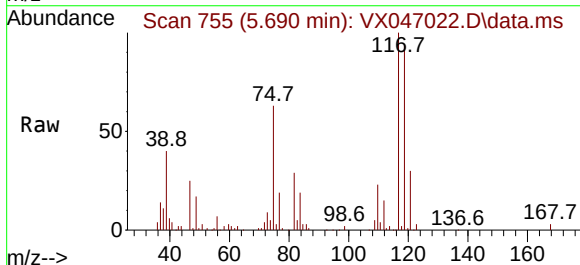
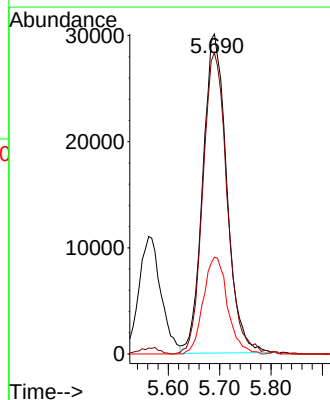
RT: 5.690 min Scan# 755

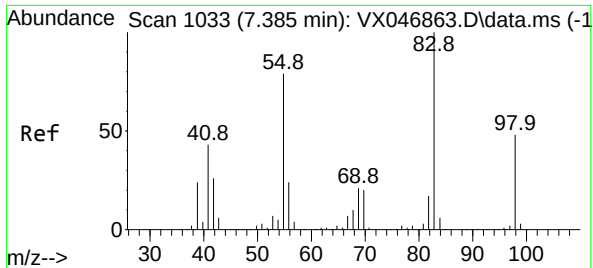
Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Tgt Ion:	117	Resp:	97241
Ion	Ratio	Lower	Upper
117	100		
119	94.5	76.6	114.8
121	30.4	24.1	36.1





#39

Methylcyclohexane

Concen: 17.503 ug/l

RT: 7.384 min Scan# 1033

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 83 Resp: 109730

Ion Ratio Lower Upper

83 100

55 79.6 63.0 94.4

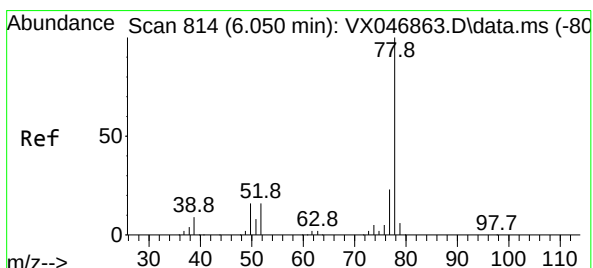
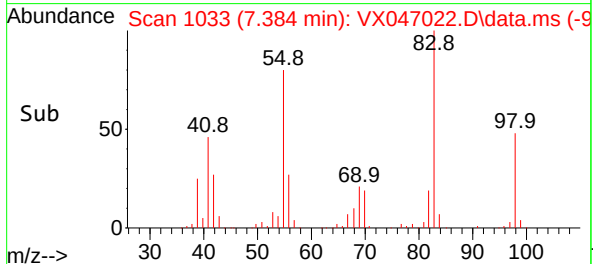
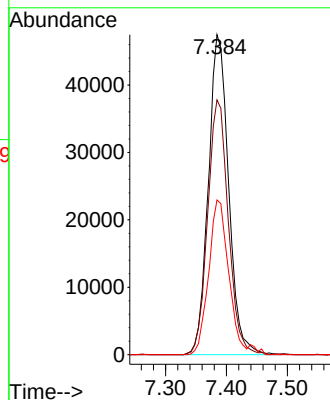
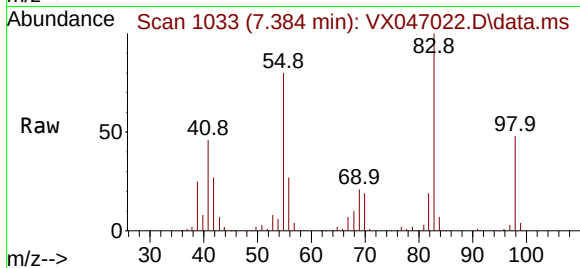
98 48.4 38.5 57.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#40

Benzene

Concen: 18.507 ug/l

RT: 6.049 min Scan# 814

Delta R.T. -0.000 min

Lab File: VX047022.D

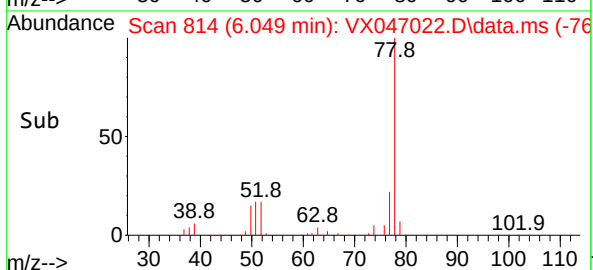
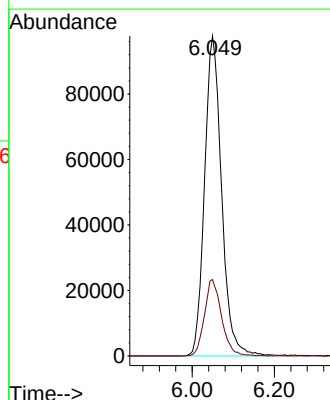
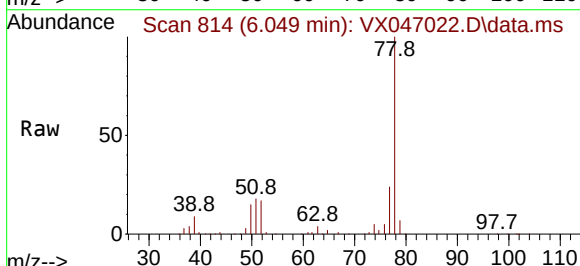
Acq: 16 Jul 2025 12:11

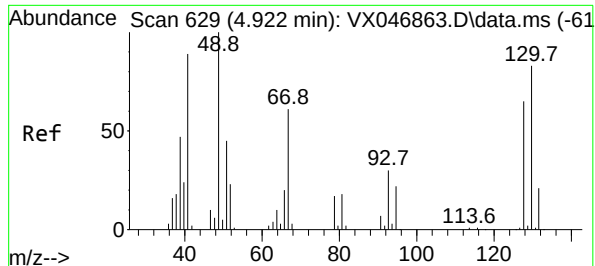
Tgt Ion: 78 Resp: 280563

Ion Ratio Lower Upper

78 100

77 23.9 18.7 28.1





#41

Methacrylonitrile

Concen: 24.470 ug/l

RT: 4.934 min Scan# 61

Delta R.T. 0.012 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 41 Resp: 5572

Ion Ratio Lower Upper

41 100

39 54.3 43.0 64.4

67 73.9 60.2 90.2

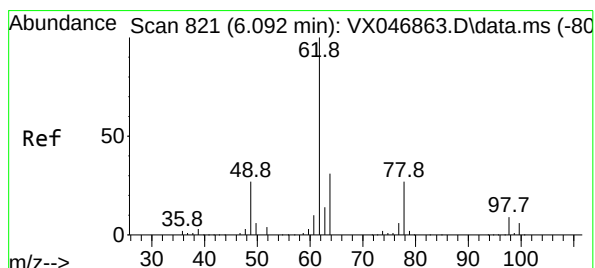
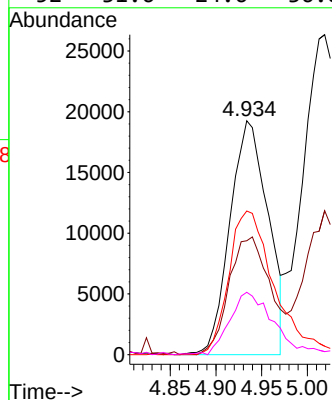
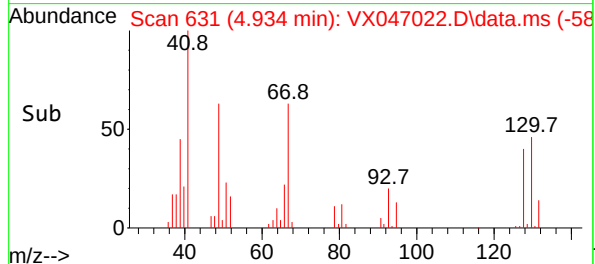
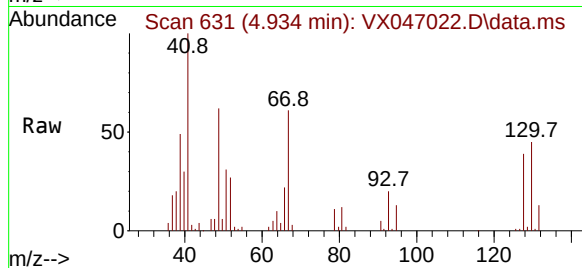
52 31.6 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#42

1,2-Dichloroethane

Concen: 20.109 ug/l

RT: 6.104 min Scan# 823

Delta R.T. 0.012 min

Lab File: VX047022.D

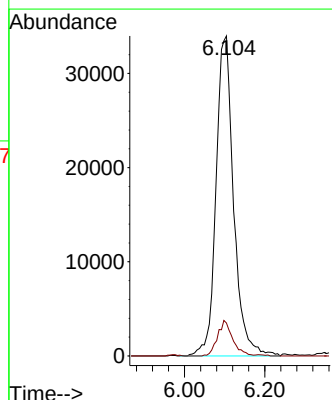
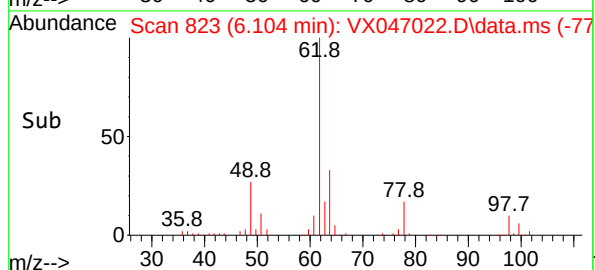
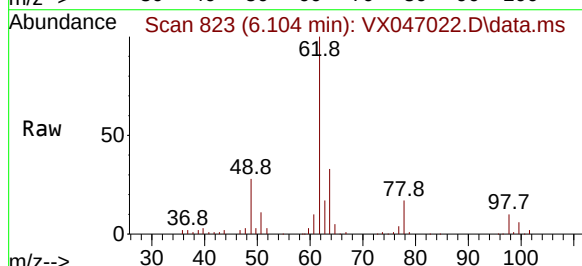
Acq: 16 Jul 2025 12:11

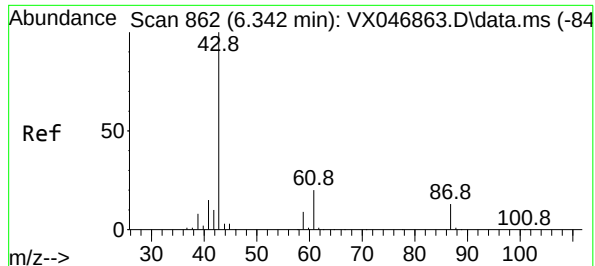
Tgt Ion: 62 Resp: 103517

Ion Ratio Lower Upper

62 100

98 9.5 0.0 19.4





#43

Isopropyl Acetate

Concen: 24.576 ug/l

RT: 6.348 min Scan# 80

Delta R.T. 0.006 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 43 Resp: 160694

Ion Ratio Lower Upper

43 100

61 19.5 15.7 23.5

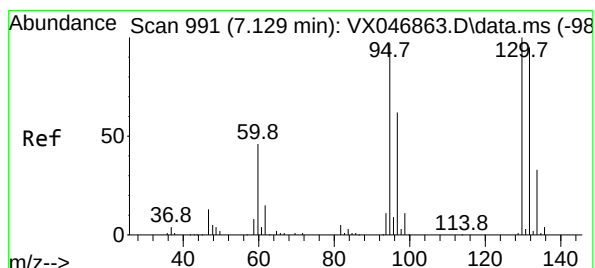
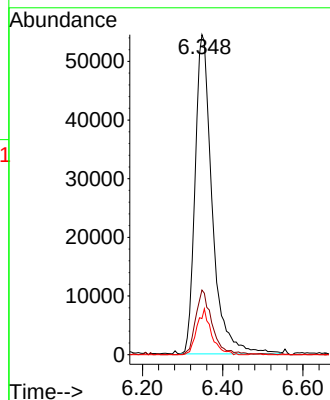
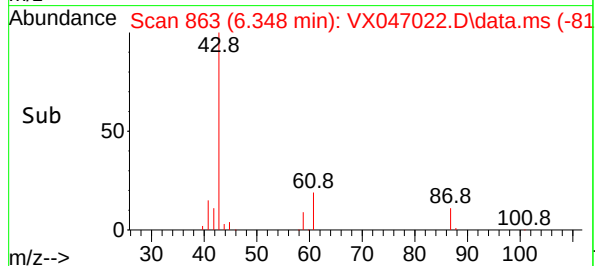
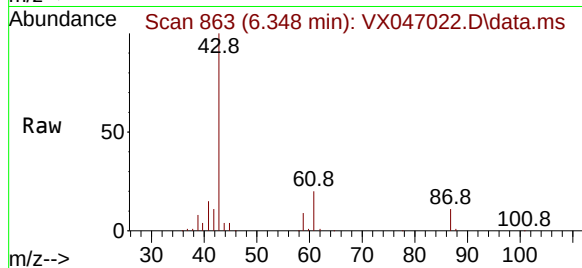
87 12.2 10.1 15.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#44

Trichloroethene

Concen: 17.584 ug/l

RT: 7.135 min Scan# 992

Delta R.T. 0.006 min

Lab File: VX047022.D

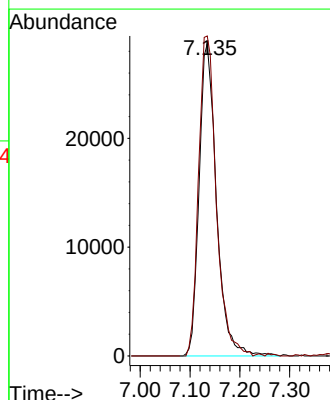
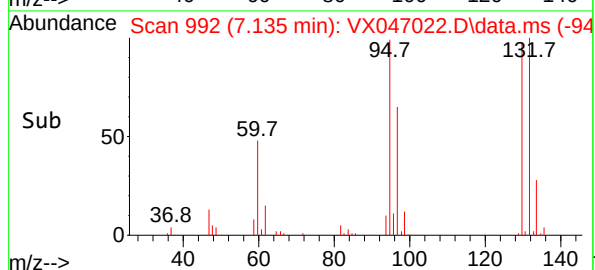
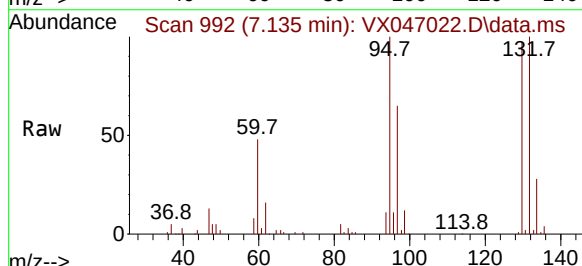
Acq: 16 Jul 2025 12:11

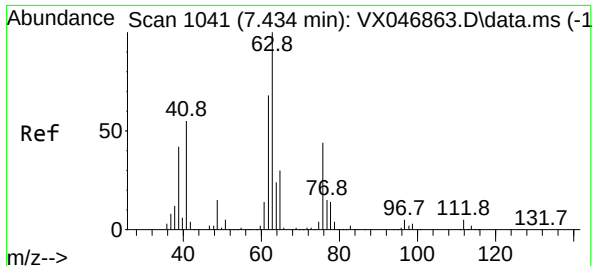
Tgt Ion:130 Resp: 69390

Ion Ratio Lower Upper

130 100

95 102.6 0.0 194.2





#45

1,2-Dichloropropane

Concen: 19.503 ug/l

RT: 7.433 min Scan# 1041

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 63 Resp: 7470

Ion Ratio Lower Upper

63 100

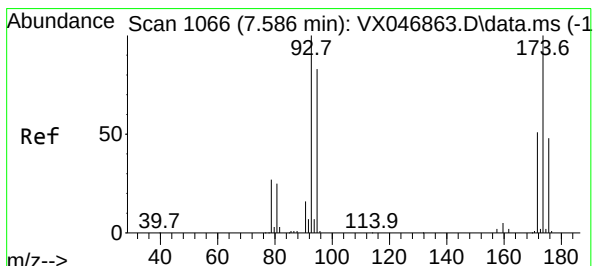
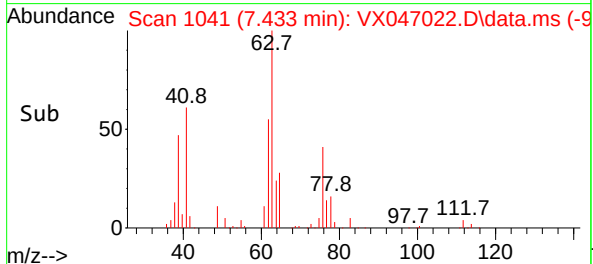
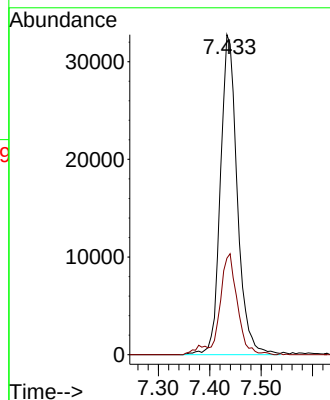
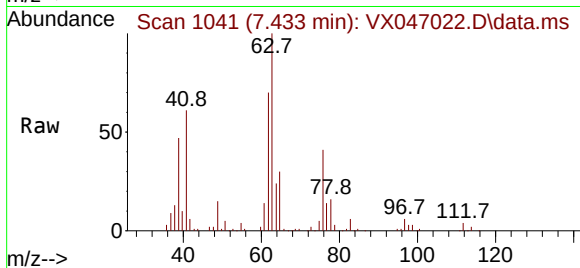
65 30.1 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#46

Dibromomethane

Concen: 20.074 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

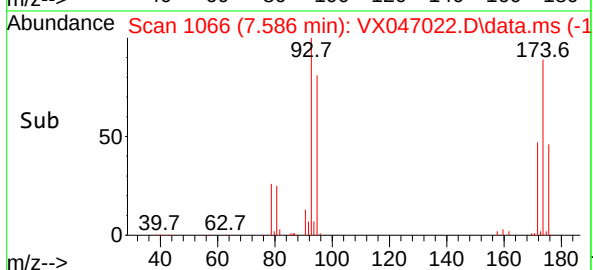
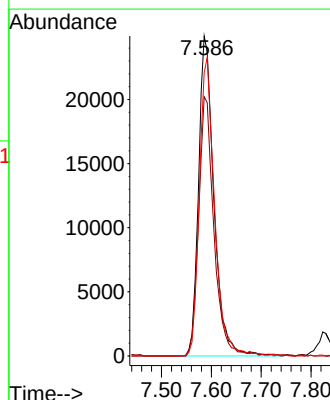
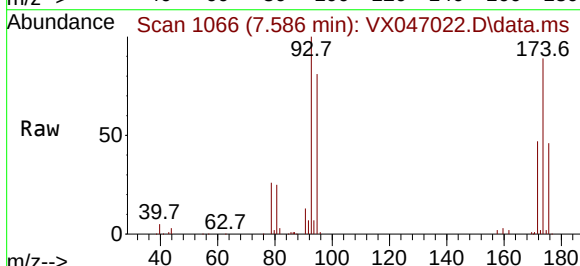
Tgt Ion: 93 Resp: 53271

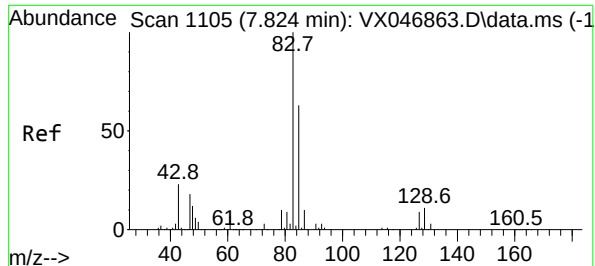
Ion Ratio Lower Upper

93 100

95 80.2 66.6 99.8

174 92.8 77.4 116.2





#47

Bromodichloromethane

Concen: 19.277 ug/l

RT: 7.823 min Scan# 1105

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 83 Resp: 10923

Ion Ratio Lower Upper

83 100

85 62.5 50.2 75.4

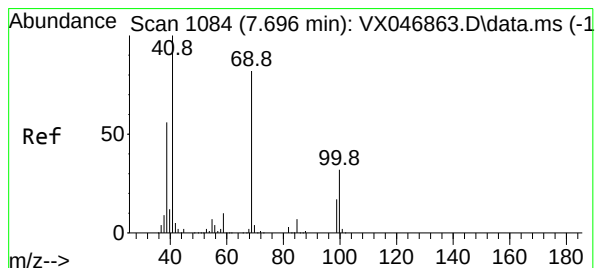
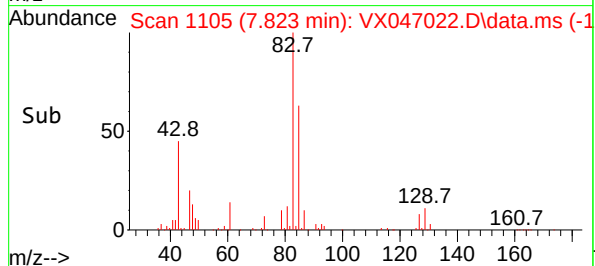
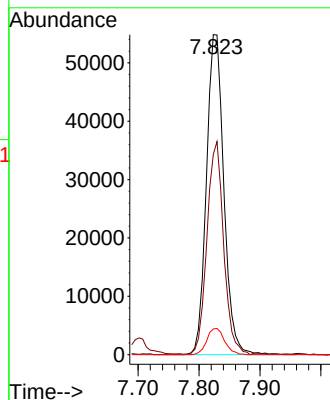
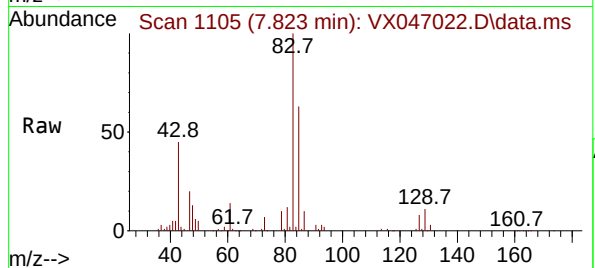
127 8.1 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#48

Methyl methacrylate

Concen: 24.954 ug/l

RT: 7.695 min Scan# 1084

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

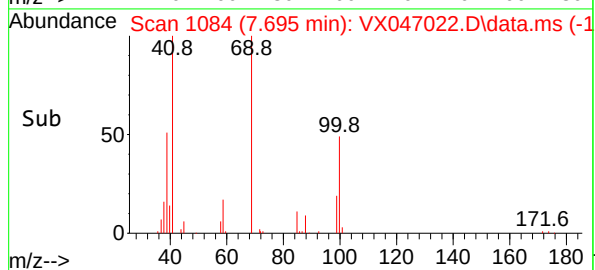
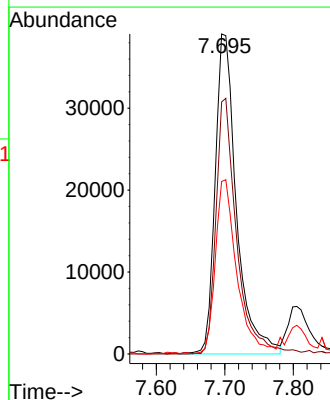
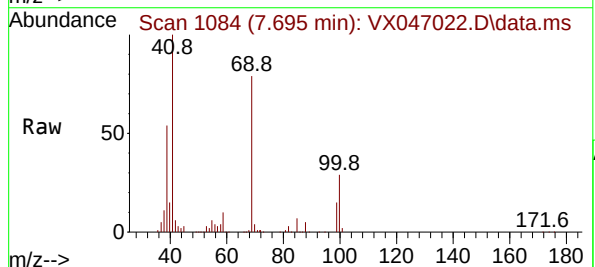
Tgt Ion: 41 Resp: 84251

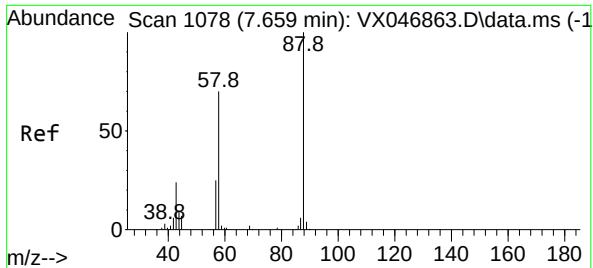
Ion Ratio Lower Upper

41 100

69 77.3 65.8 98.8

39 54.3 43.8 65.6





#49

1,4-Dioxane

Concen: 553.964 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 88 Resp: 2167

Ion Ratio Lower Upper

88 100

43 33.5 31.7 47.5

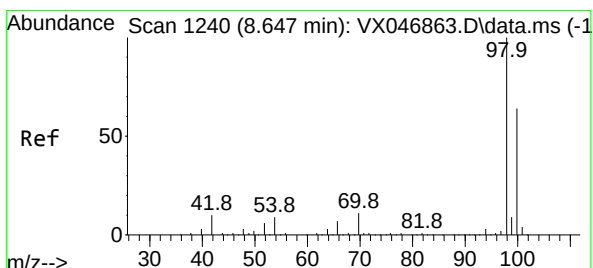
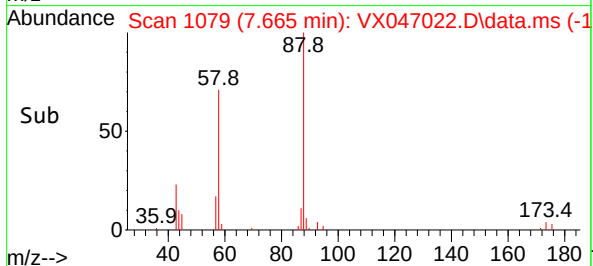
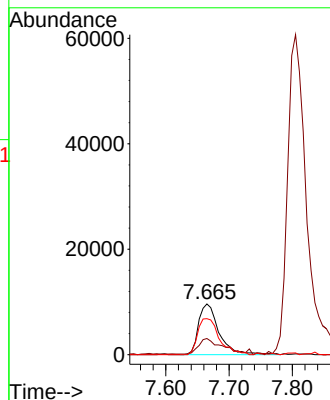
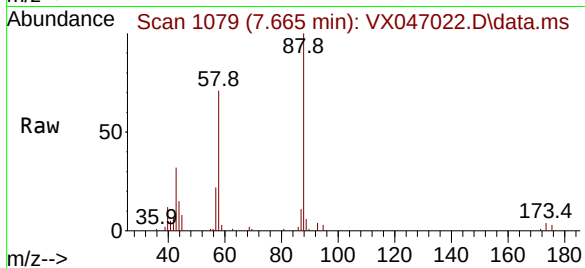
58 74.8 57.5 86.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#50

Toluene-d8

Concen: 48.103 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.006 min

Lab File: VX047022.D

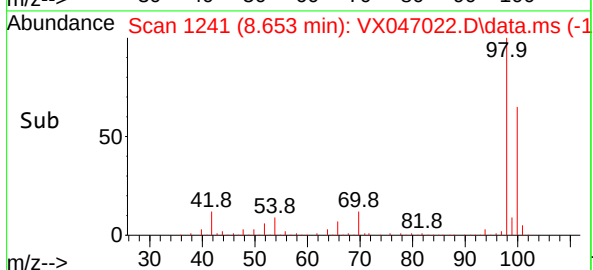
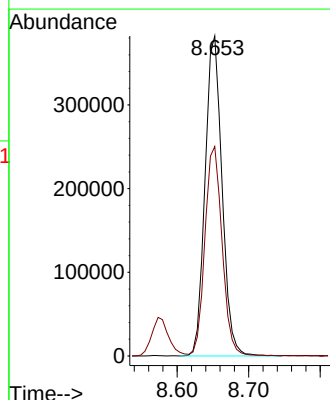
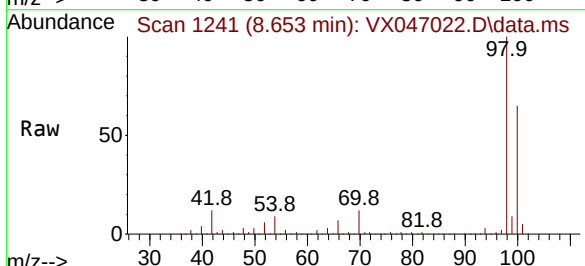
Acq: 16 Jul 2025 12:11

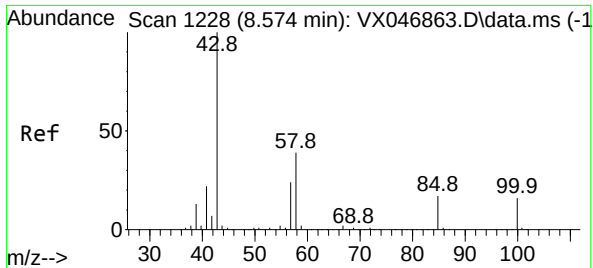
Tgt Ion: 98 Resp: 630463

Ion Ratio Lower Upper

98 100

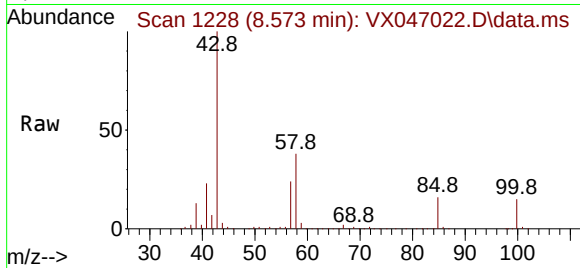
100 66.2 53.0 79.6





#51
4-Methyl-2-Pentanone
Concen: 136.404 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

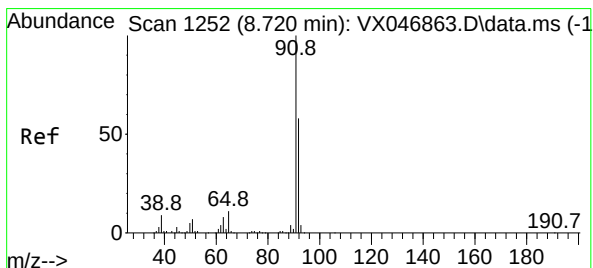
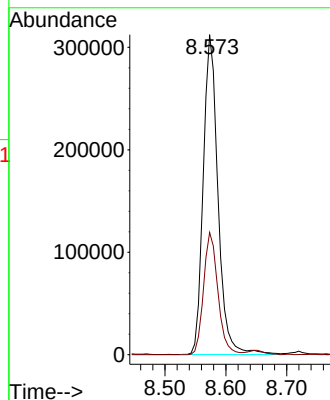
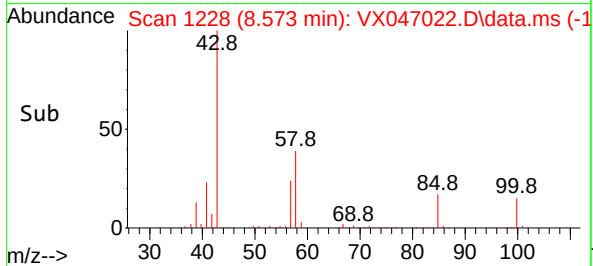
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBS01



Tgt Ion: 43 Resp: 52637
Ion Ratio Lower Upper
43 100
58 37.1 30.4 45.6

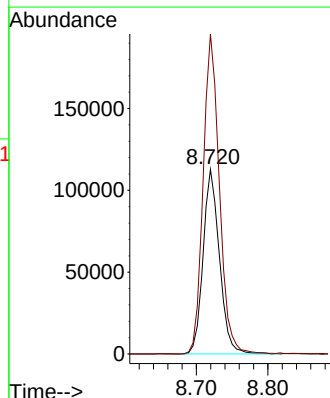
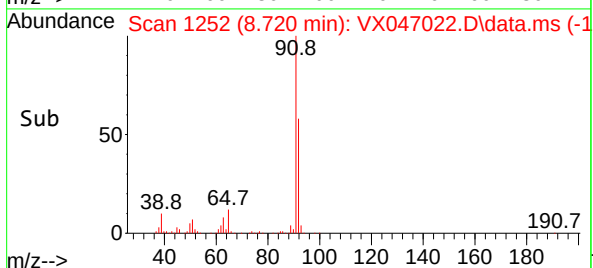
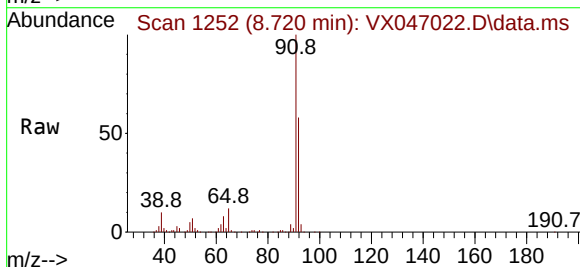
Manual Integrations
APPROVED

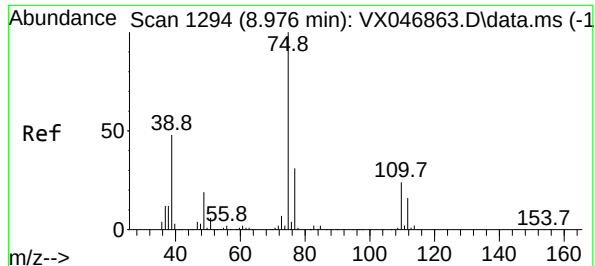
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#52
Toluene
Concen: 19.034 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 92 Resp: 178806
Ion Ratio Lower Upper
92 100
91 172.4 137.9 206.9





#53

t-1,3-Dichloropropene

Concen: 20.477 ug/l

RT: 8.982 min Scan# 1195

Delta R.T. 0.006 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 75 Resp: 103554

Ion Ratio Lower Upper

75 100

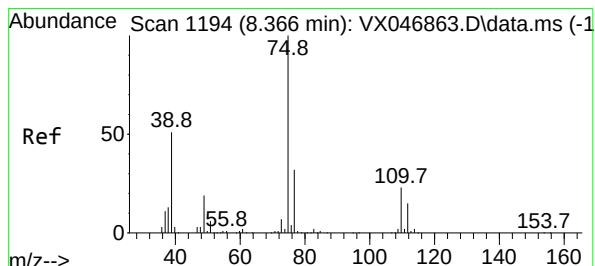
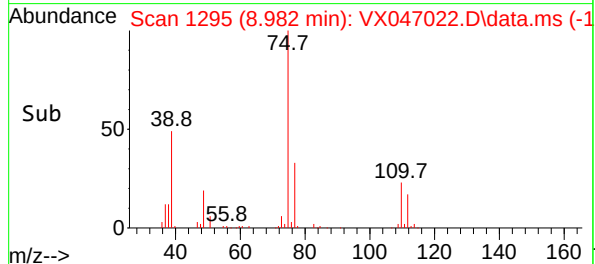
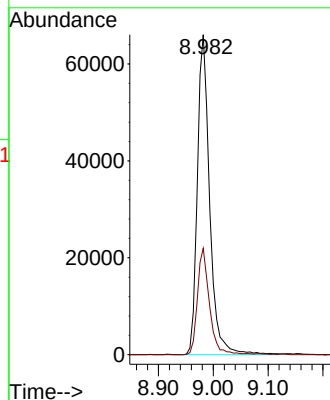
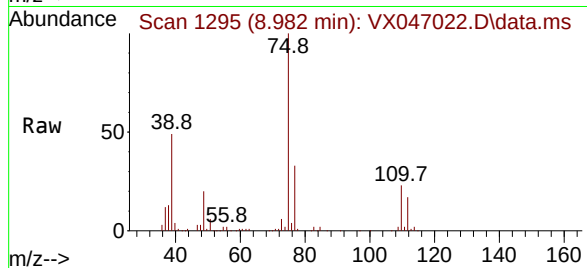
77 33.3 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#54

cis-1,3-Dichloropropene

Concen: 19.944 ug/l

RT: 8.372 min Scan# 1195

Delta R.T. 0.006 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

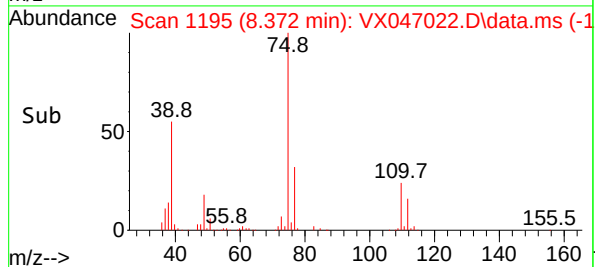
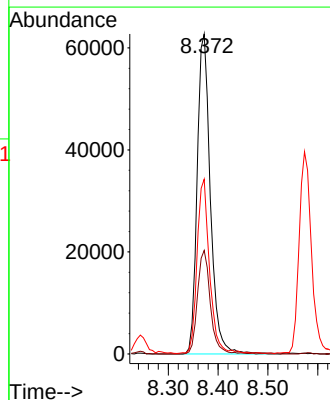
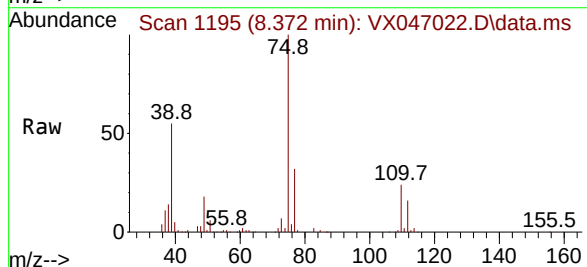
Tgt Ion: 75 Resp: 115124

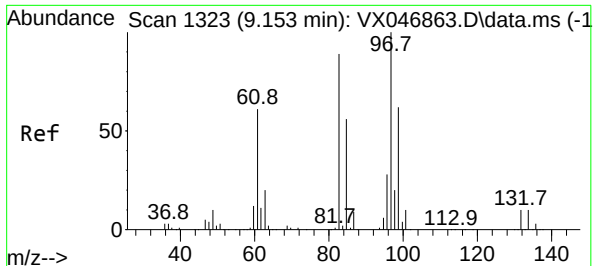
Ion Ratio Lower Upper

75 100

77 32.4 25.4 38.2

39 54.3 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 20.911 ug/l

RT: 9.152 min Scan# 1323

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 97 Resp: 73169

Ion Ratio Lower Upper

97 100

83 86.6 70.9 106.3

85 55.5 44.6 67.0

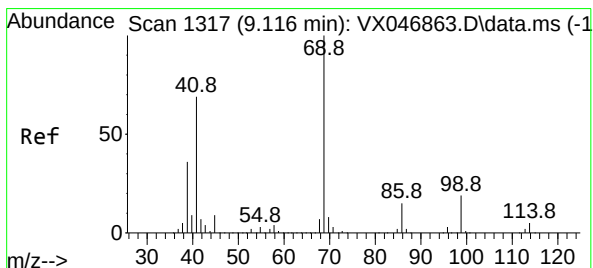
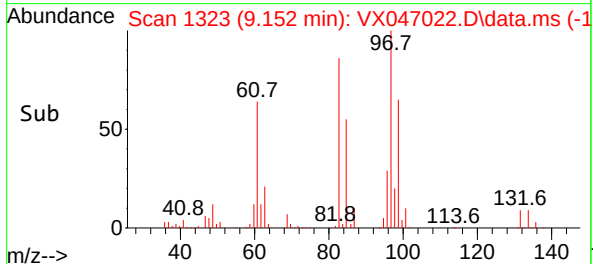
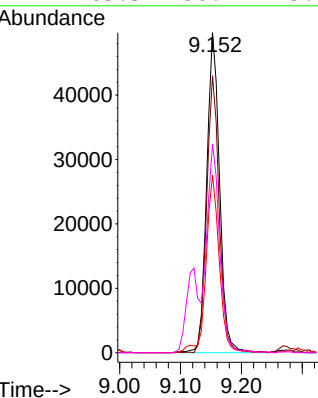
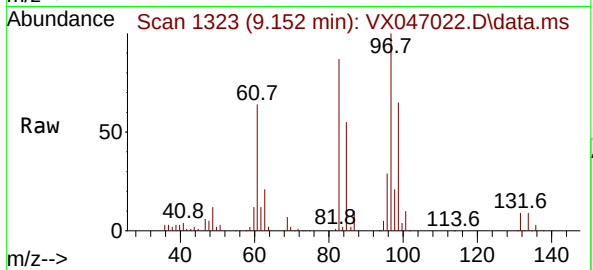
99 65.3 50.2 75.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#56

Ethyl methacrylate

Concen: 22.859 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

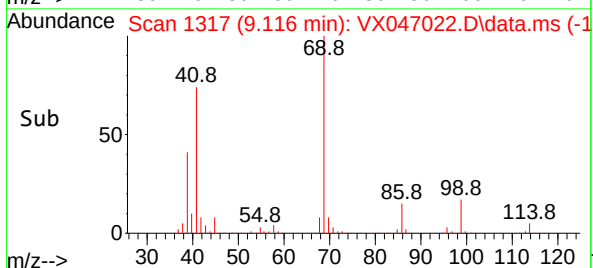
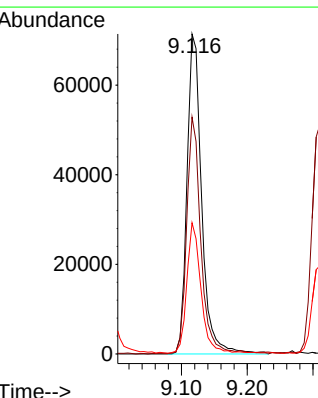
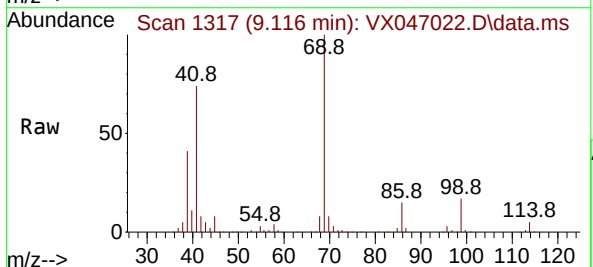
Tgt Ion: 69 Resp: 110706

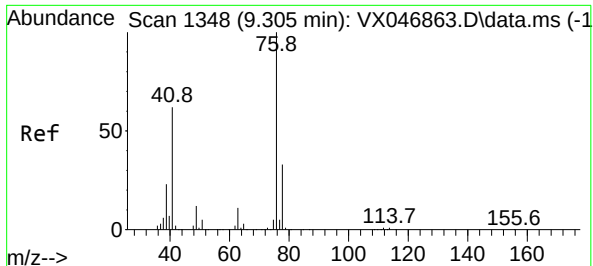
Ion Ratio Lower Upper

69 100

41 70.2 54.6 82.0

39 39.5 28.7 43.1





#57

1,3-Dichloropropane

Concen: 20.538 ug/l

RT: 9.311 min Scan# 11349

Delta R.T. 0.006 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 76 Resp: 12374

Ion Ratio Lower Upper

76 100

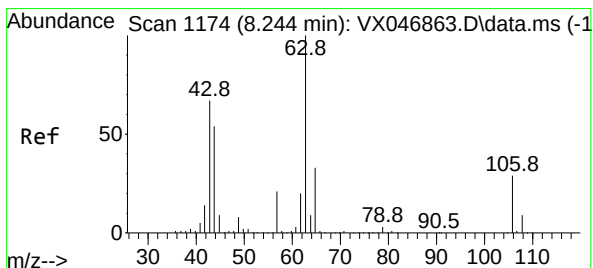
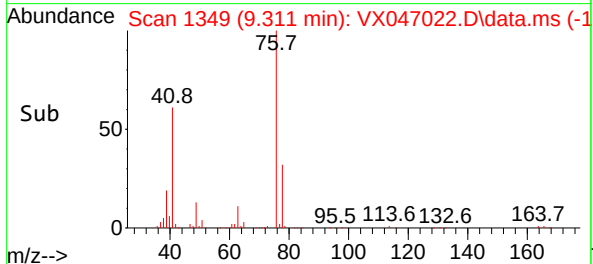
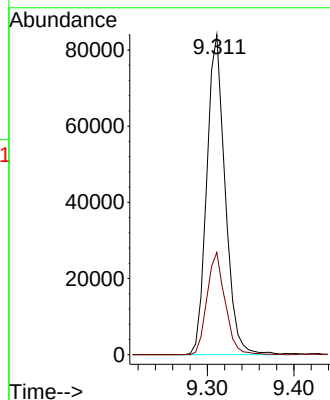
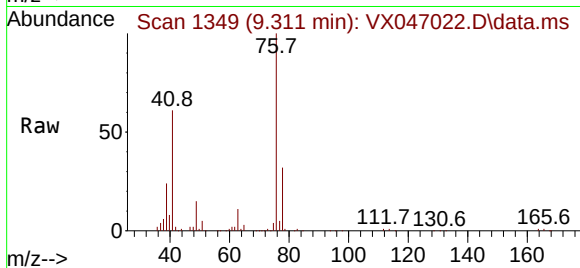
78 31.6 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#58

2-Chloroethyl Vinyl ether

Concen: 104.797 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. -0.000 min

Lab File: VX047022.D

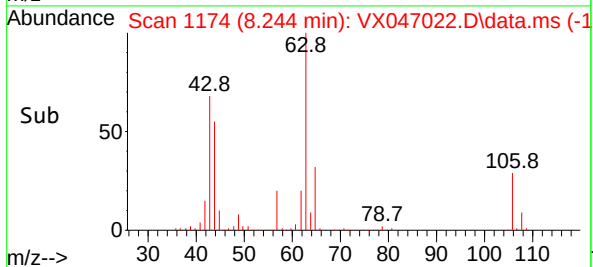
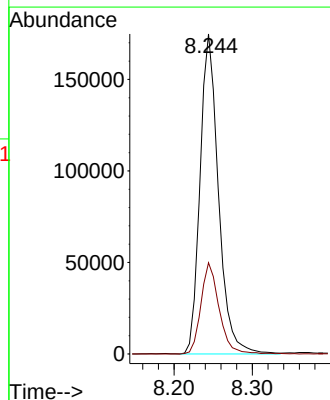
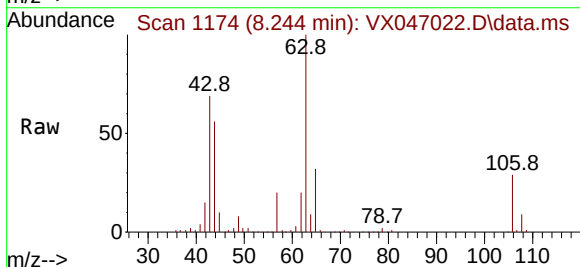
Acq: 16 Jul 2025 12:11

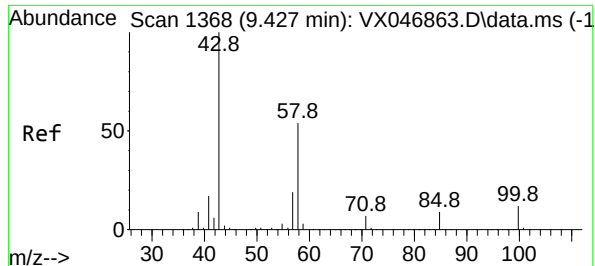
Tgt Ion: 63 Resp: 285968

Ion Ratio Lower Upper

63 100

106 28.1 22.6 33.8





#59

2-Hexanone

Concen: 140.941 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 43 Resp: 360750

Ion Ratio Lower Upper

43

100

58

54.1

27.1

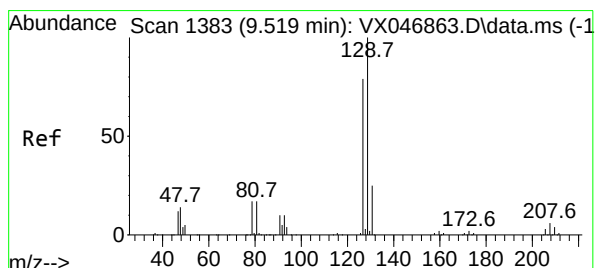
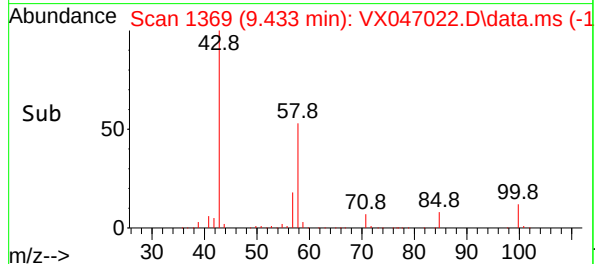
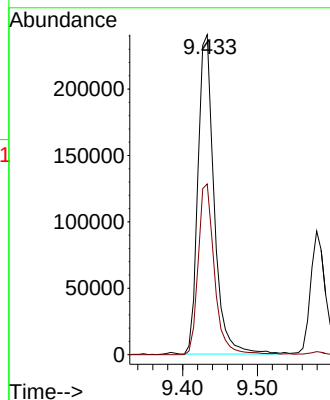
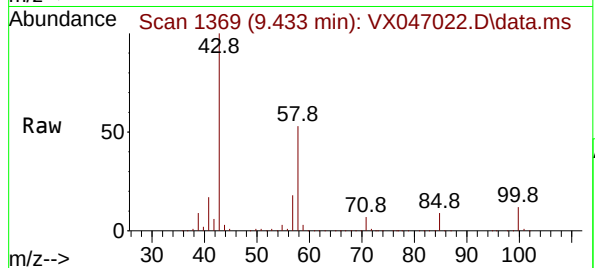
81.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#60

Dibromochloromethane

Concen: 19.053 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Tgt Ion:129 Resp: 79783

Ion Ratio Lower Upper

129

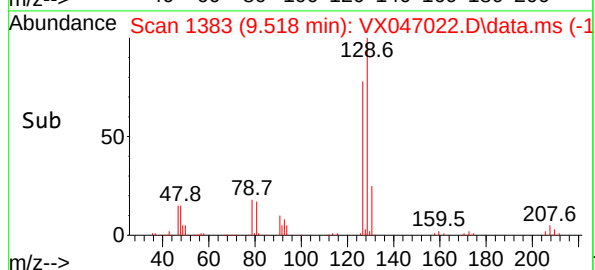
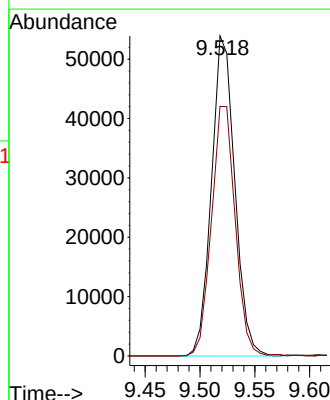
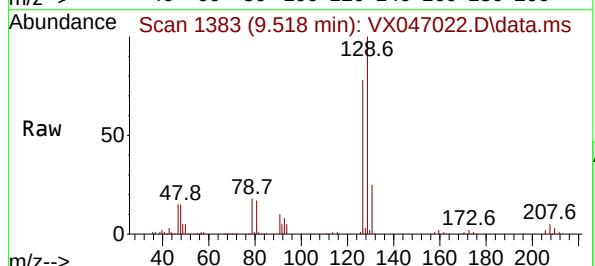
100

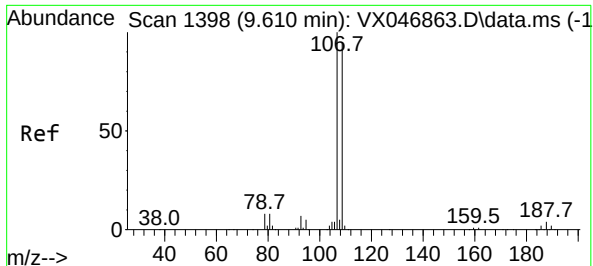
127

79.6

39.1

117.5





#61

1,2-Dibromoethane

Concen: 20.673 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion:107 Resp: 7264

Ion Ratio Lower Upper

107 100

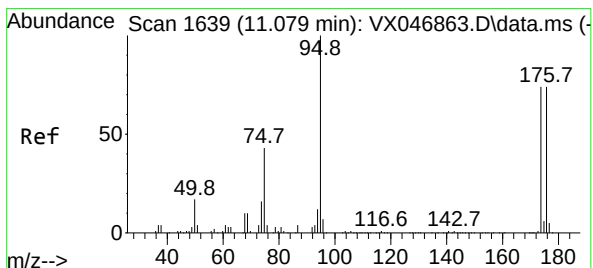
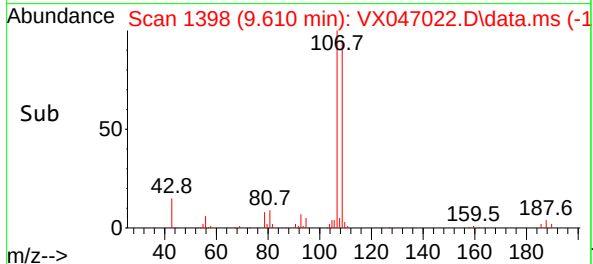
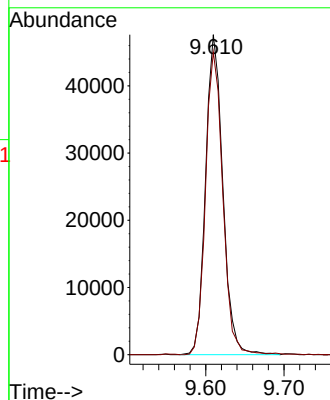
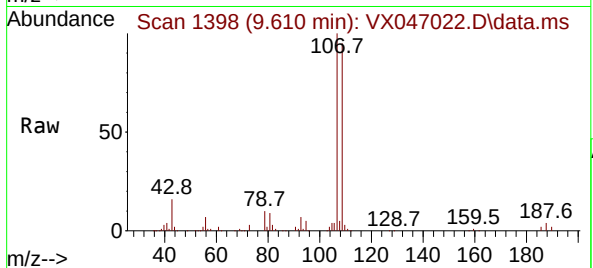
109 94.8 75.4 113.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#62

4-Bromofluorobenzene

Concen: 52.018 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

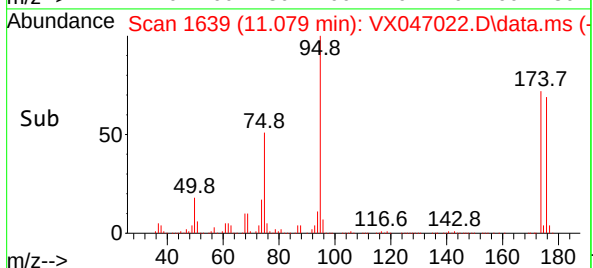
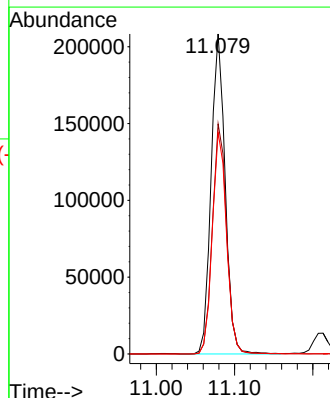
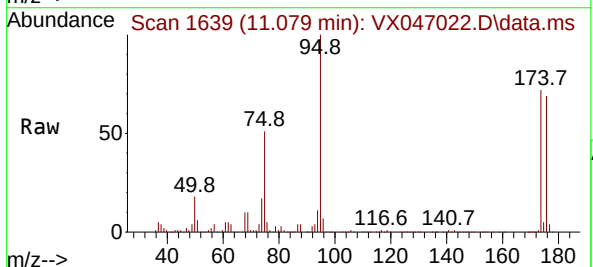
Tgt Ion: 95 Resp: 259114

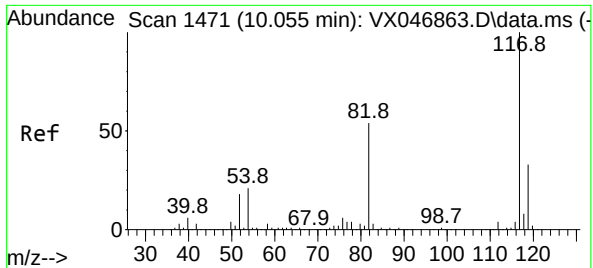
Ion Ratio Lower Upper

95 100

174 72.8 0.0 152.0

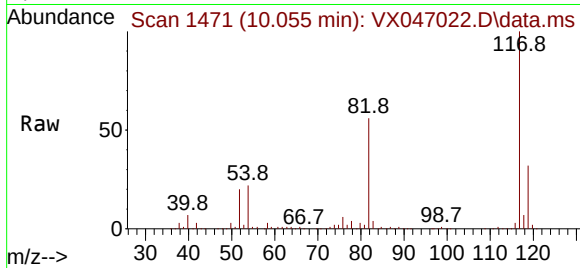
176 70.1 0.0 145.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

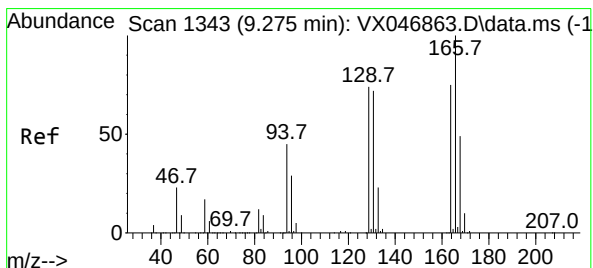
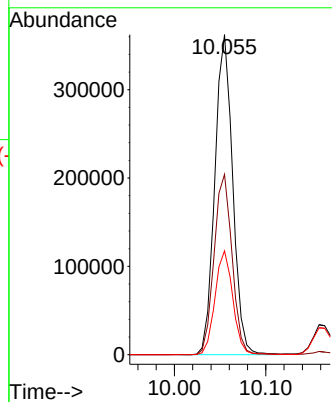
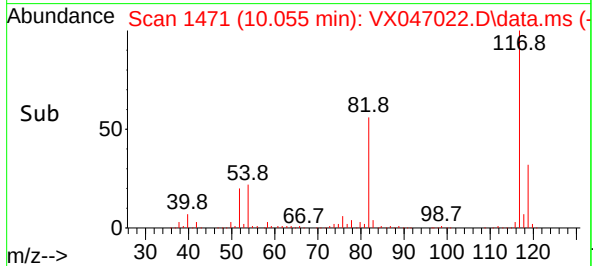
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBS01



Tgt Ion:117 Resp: 491570
Ion Ratio Lower Upper
117 100
82 56.3 43.3 64.9
119 32.5 26.4 39.6

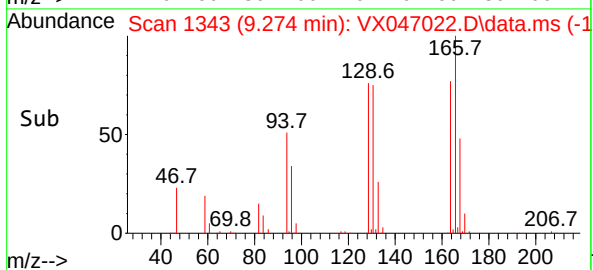
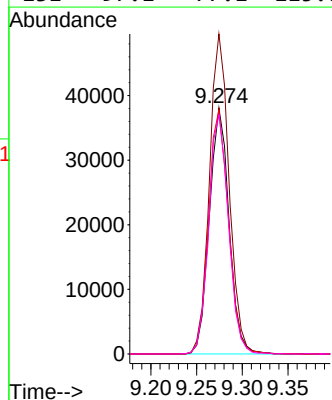
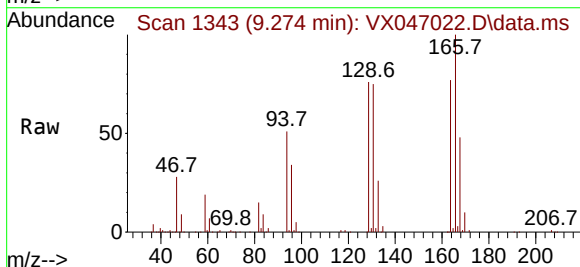
Manual Integrations
APPROVED

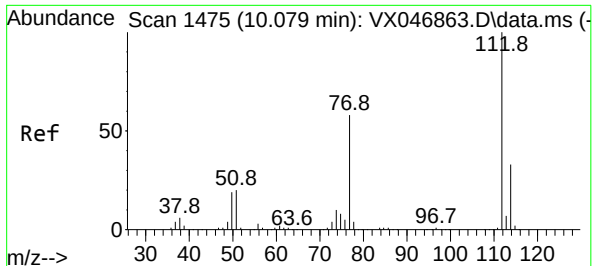
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#64
Tetrachloroethene
Concen: 17.464 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

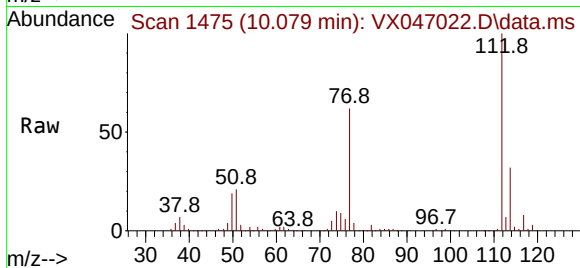
Tgt Ion:164 Resp: 57157
Ion Ratio Lower Upper
164 100
166 130.1 107.0 160.6
129 99.3 79.7 119.5
131 97.1 77.1 115.7





#65
Chlorobenzene
Concen: 18.978 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

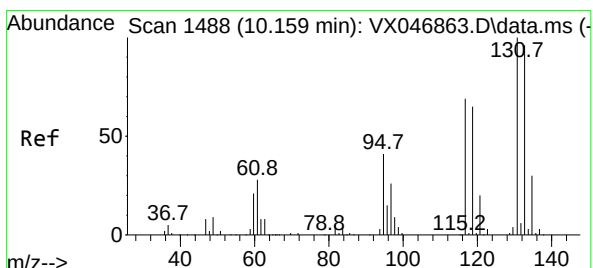
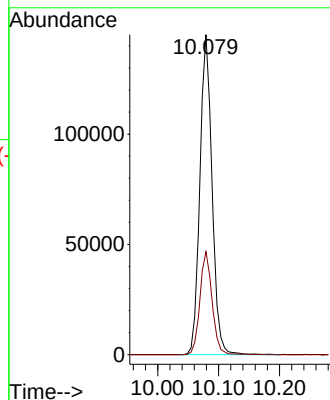
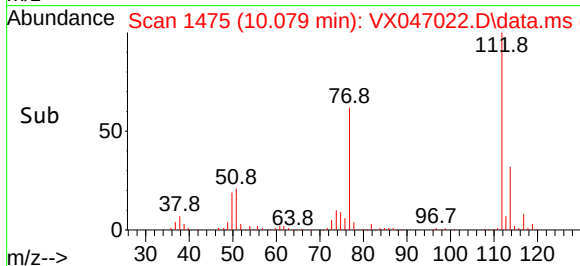
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBS01



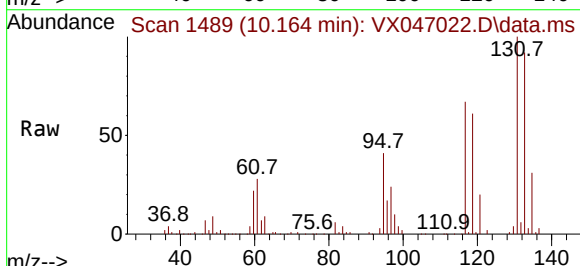
Tgt Ion:112 Resp: 201694
Ion Ratio Lower Upper
112 100
114 32.2 26.3 39.5

Manual Integrations
APPROVED

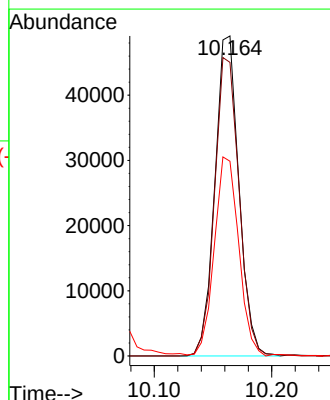
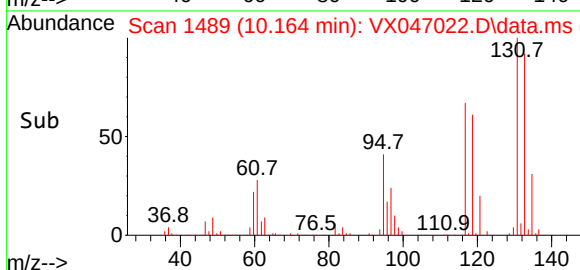
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

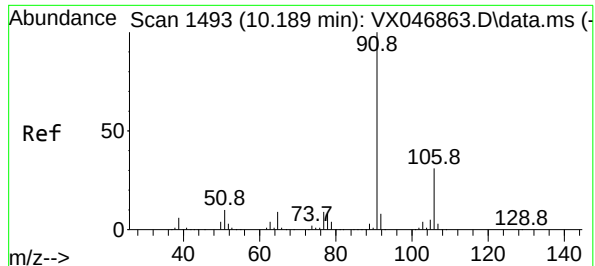


#66
1,1,1,2-Tetrachloroethane
Concen: 19.530 ug/l
RT: 10.164 min Scan# 1489
Delta R.T. 0.006 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11



Tgt Ion:131 Resp: 69777
Ion Ratio Lower Upper
131 100
133 95.2 47.6 142.9
119 62.4 32.4 97.2





#67

Ethyl Benzene

Concen: 19.379 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.006 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 91 Resp: 352718

Ion Ratio Lower Upper

91 100

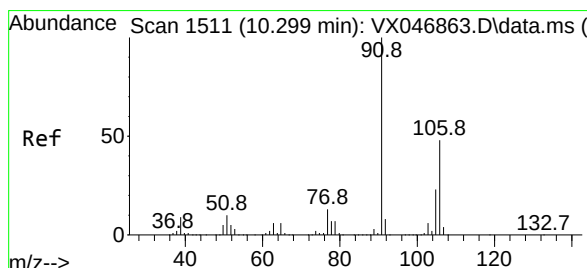
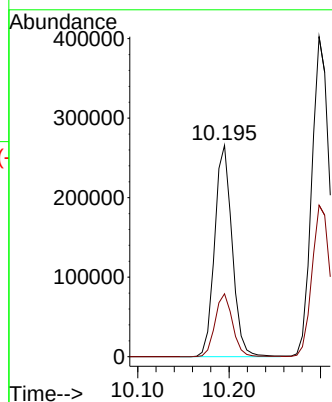
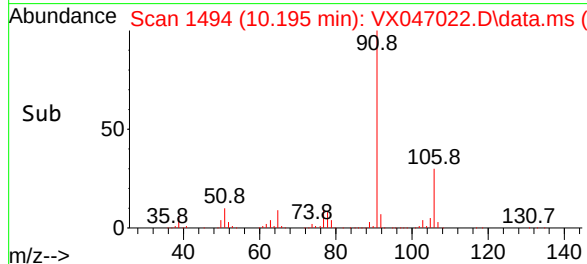
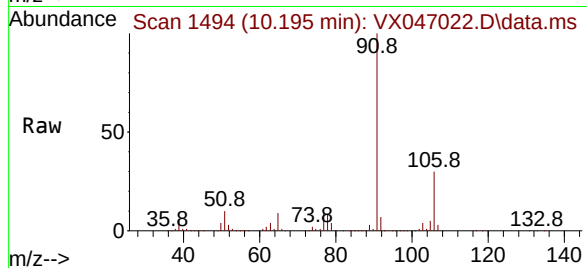
106 29.8 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#68

m/p-Xylenes

Concen: 38.645 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX047022.D

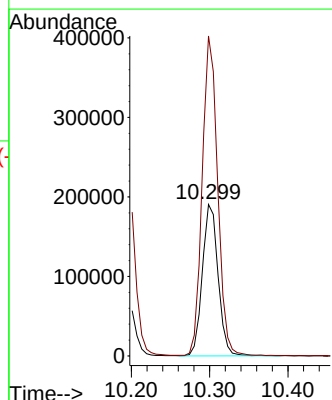
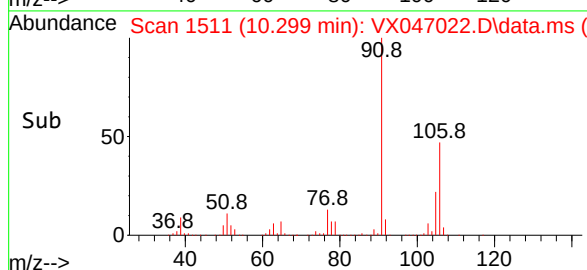
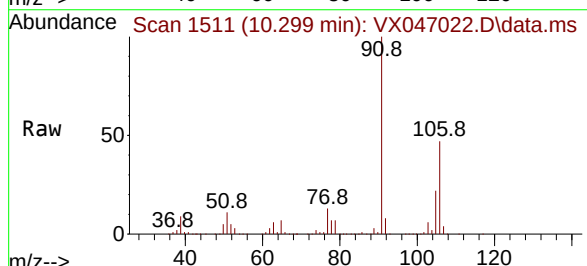
Acq: 16 Jul 2025 12:11

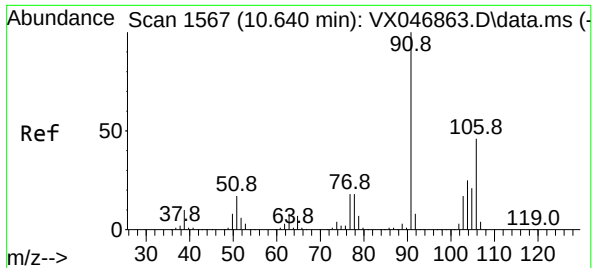
Tgt Ion:106 Resp: 265041

Ion Ratio Lower Upper

106 100

91 208.4 164.6 246.8





#69

o-Xylene

Concen: 19.650 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion:106 Resp: 13018

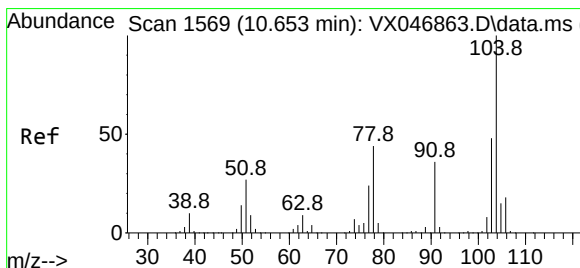
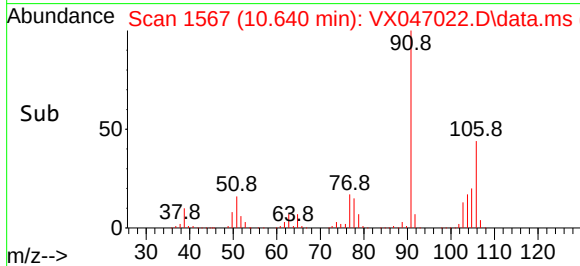
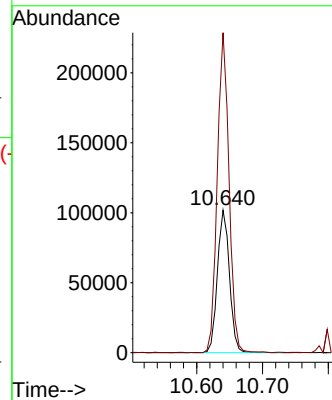
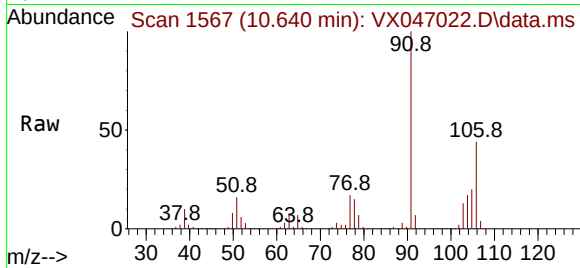
Ion Ratio Lower Upper

106 100

91 218.2 109.5 328.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

#70

Styrene

Concen: 19.994 ug/l

RT: 10.652 min Scan# 1569

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

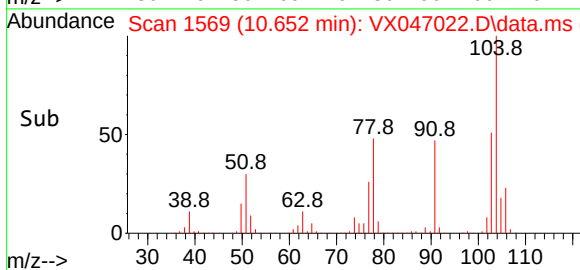
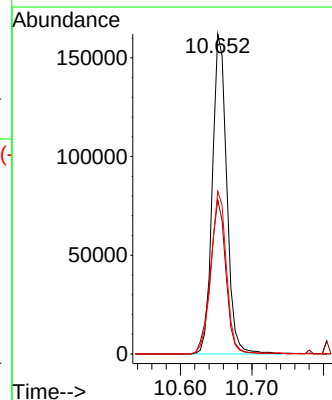
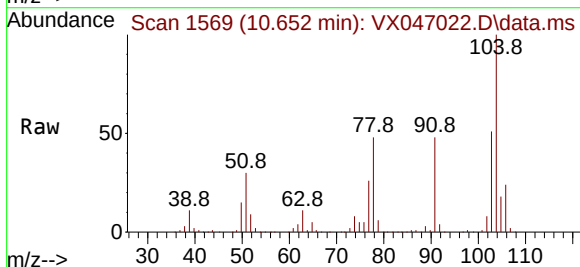
Tgt Ion:104 Resp: 226617

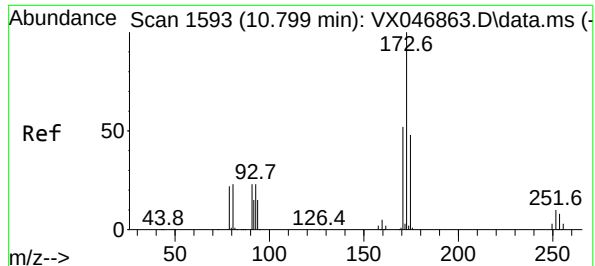
Ion Ratio Lower Upper

104 100

78 52.3 40.3 60.5

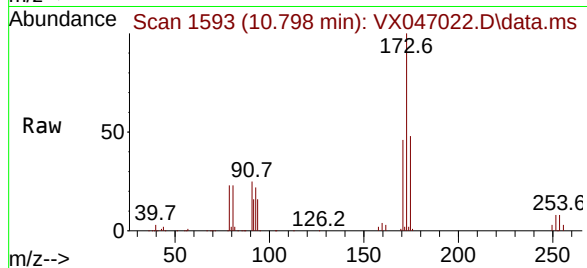
103 54.5 42.8 64.2





#71
Bromoform
Concen: 20.079 ug/l
RT: 10.798 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

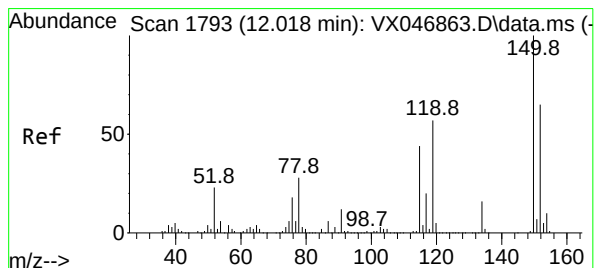
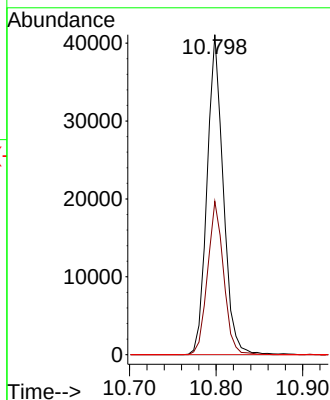
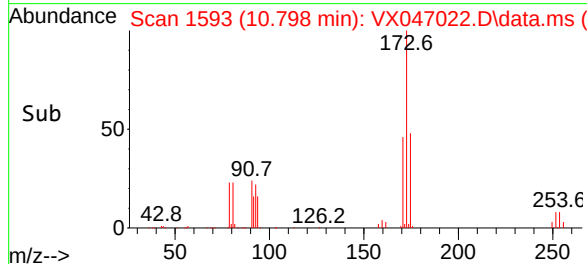
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBS01



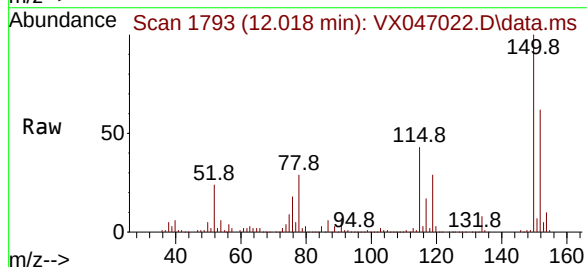
Tgt Ion:173 Resp: 53339
Ion Ratio Lower Upper
173 100
175 47.6 23.8 71.5
254 0.0 0.1 0.1

Manual Integrations
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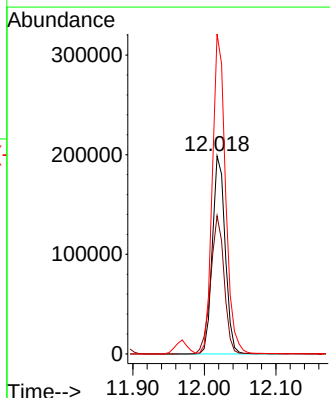
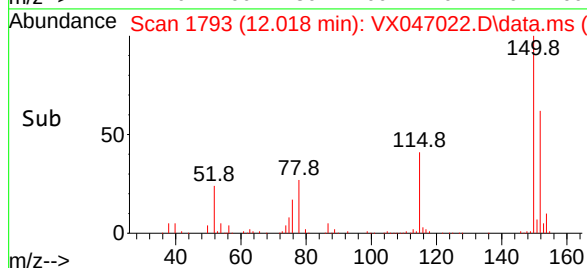
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

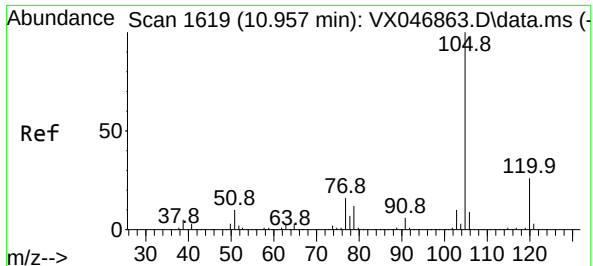


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11



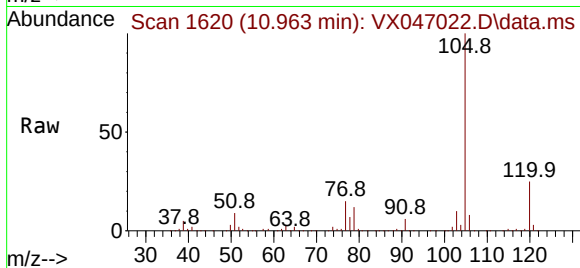
Tgt Ion:152 Resp: 246550
Ion Ratio Lower Upper
152 100
115 73.6 42.4 127.1
150 166.3 0.0 349.2





#73
Isopropylbenzene
Concen: 20.411 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.006 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

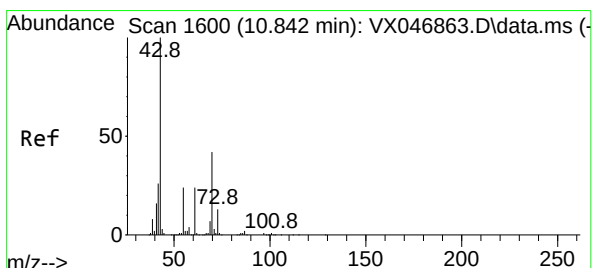
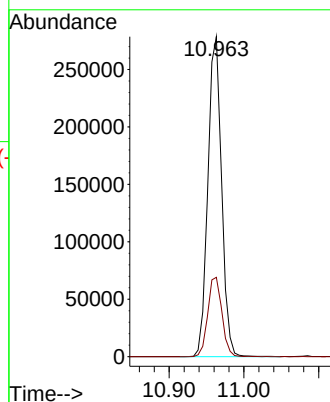
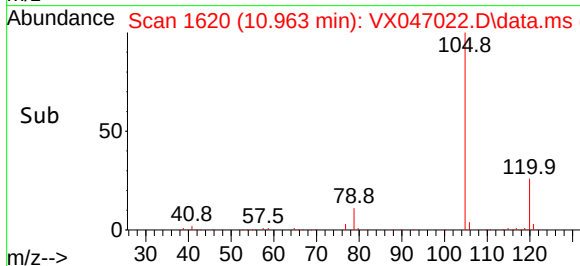
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBS01



Tgt Ion:105 Resp: 353750
Ion Ratio Lower Upper
105 100
120 25.7 13.2 39.5

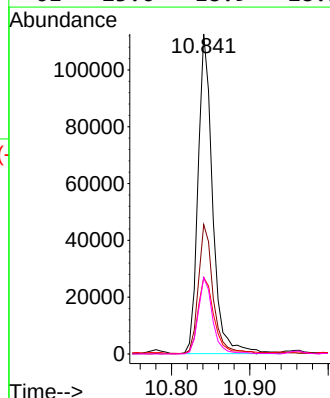
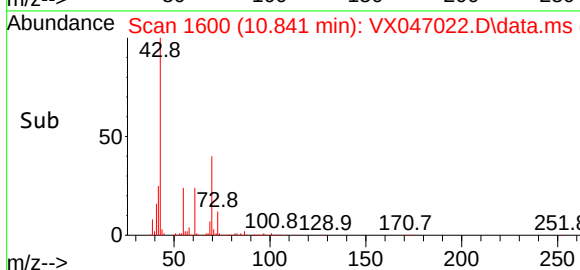
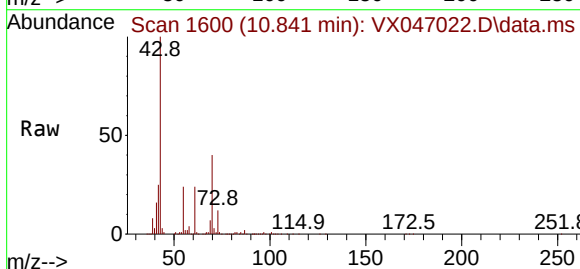
Manual Integrations
APPROVED

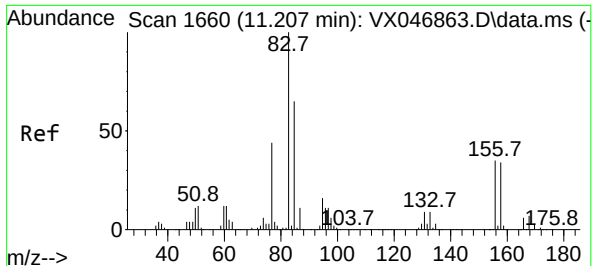
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#74
N-ethyl acetate
Concen: 24.745 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 43 Resp: 145739
Ion Ratio Lower Upper
43 100
70 41.1 33.4 50.2
55 26.4 19.6 29.4
61 23.6 18.9 28.3





#75

1,1,2,2-Tetrachloroethane

Concen: 23.347 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 83 Resp: 111268

Ion Ratio Lower Upper

83 100

131 9.6 5.0 14.9

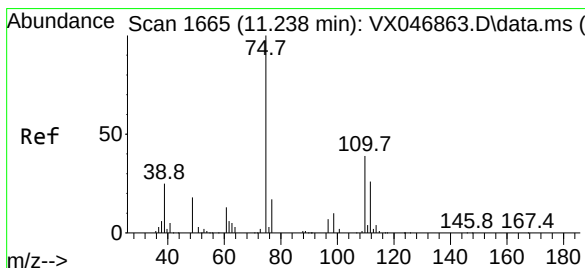
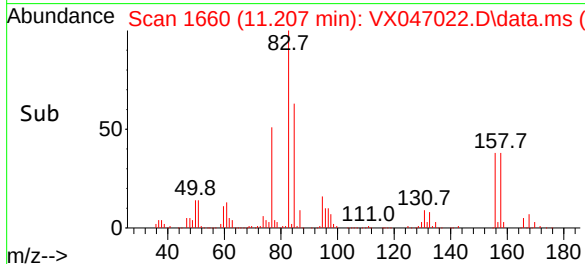
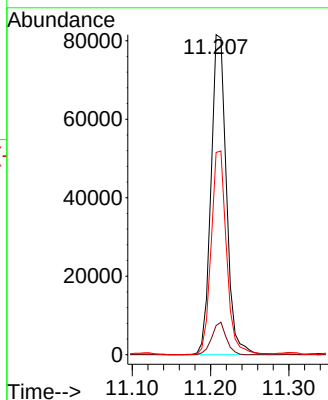
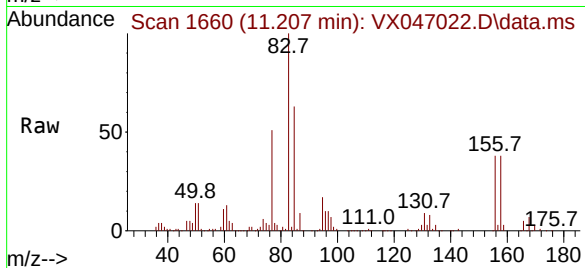
85 63.6 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#76

1,2,3-Trichloropropane

Concen: 22.807 ug/l m

RT: 11.237 min Scan# 1665

Delta R.T. -0.000 min

Lab File: VX047022.D

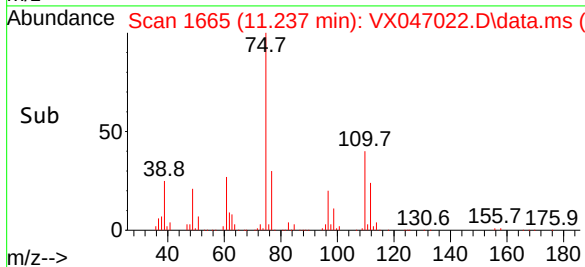
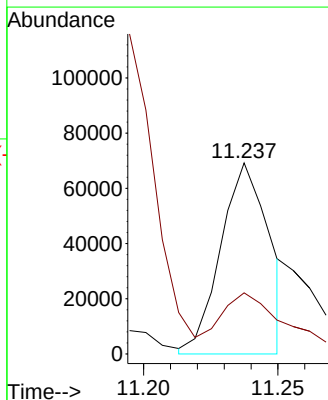
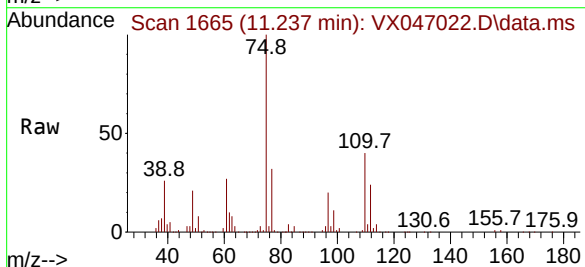
Acq: 16 Jul 2025 12:11

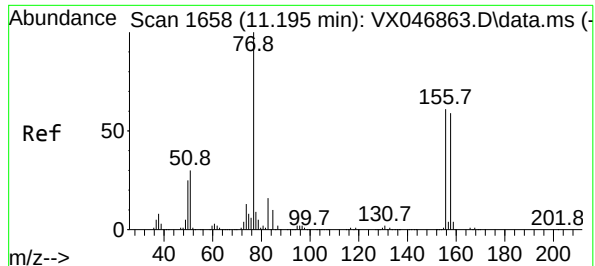
Tgt Ion: 75 Resp: 86885

Ion Ratio Lower Upper

75 100

77 44.2 20.6 61.8





#77

Bromobenzene

Concen: 19.474 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

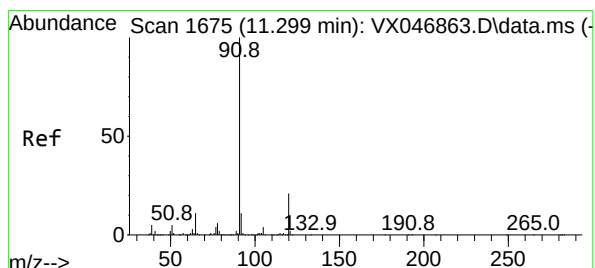
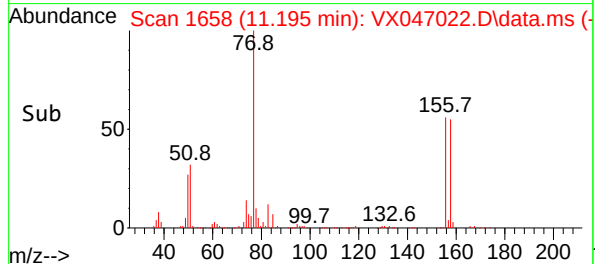
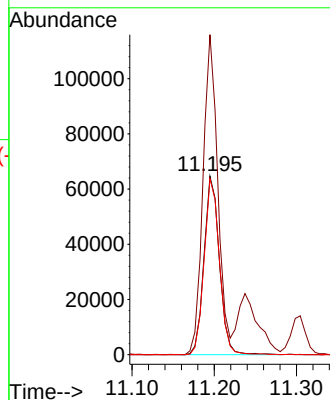
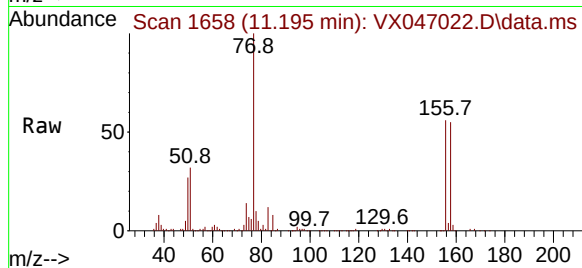
VX0716WBS01

Tgt Ion:	156	Resp:	84072
Ion Ratio	Lower	Upper	
156	100		
77	171.6	82.3	247.0
158	98.1	47.5	142.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#78

n-propylbenzene

Concen: 19.871 ug/l

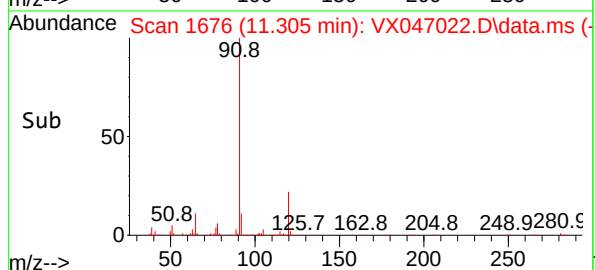
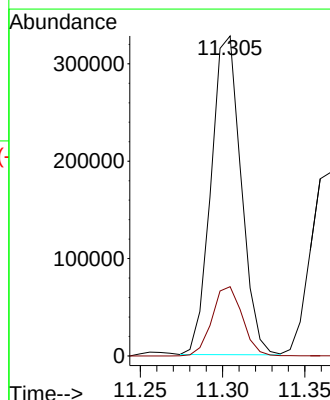
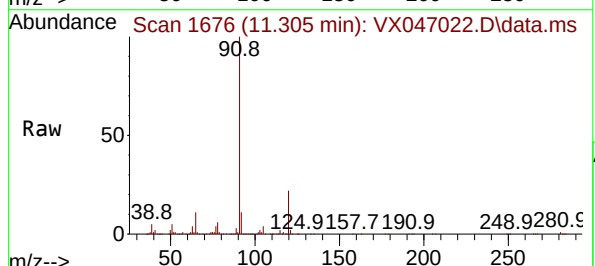
RT: 11.305 min Scan# 1676

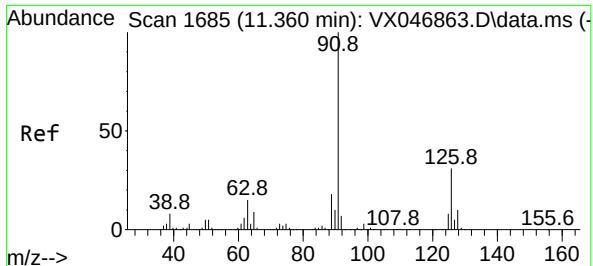
Delta R.T. 0.006 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Tgt Ion:	91	Resp:	415279
Ion Ratio	Lower	Upper	
91	100		
120	22.0	11.2	33.5





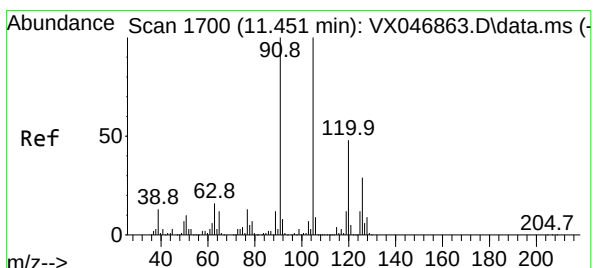
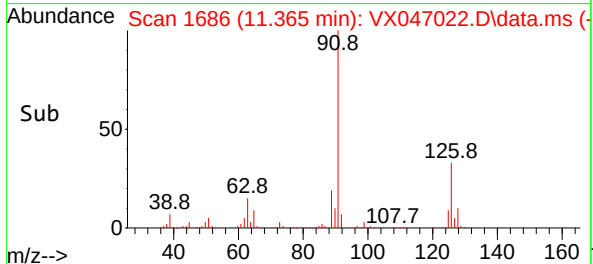
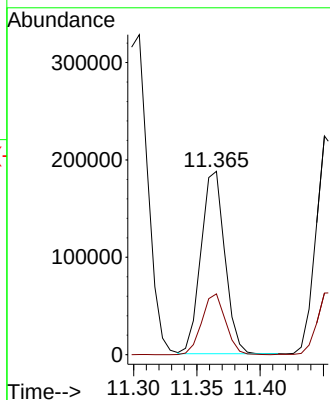
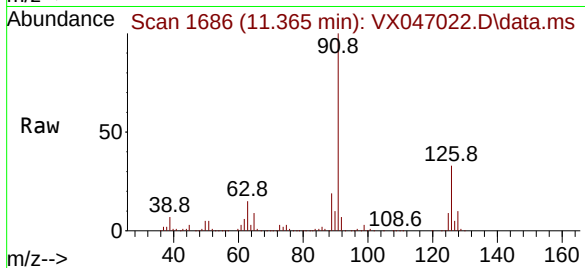
#79
2-Chlorotoluene
Concen: 19.963 ug/l
RT: 11.365 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBS01

Tgt Ion: 91 Resp: 246338
Ion Ratio Lower Upper
91 100
126 33.1 16.6 49.8

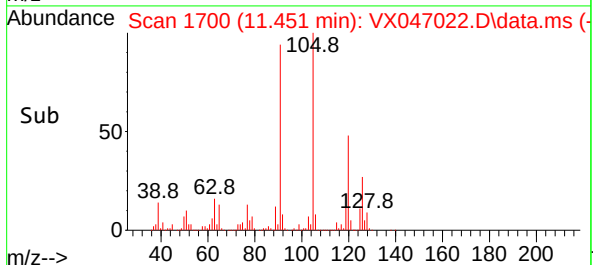
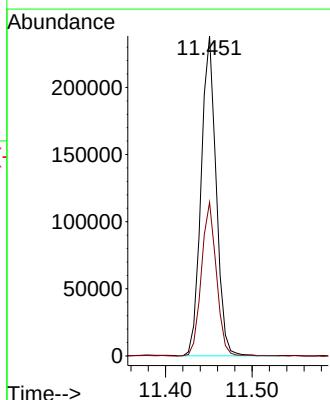
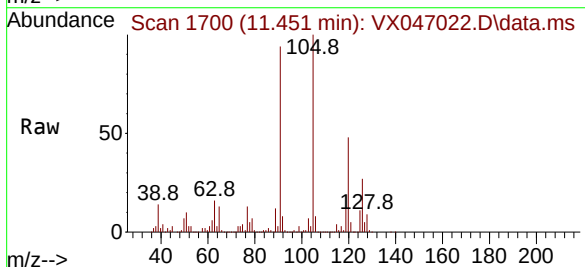
Manual Integrations
APPROVED

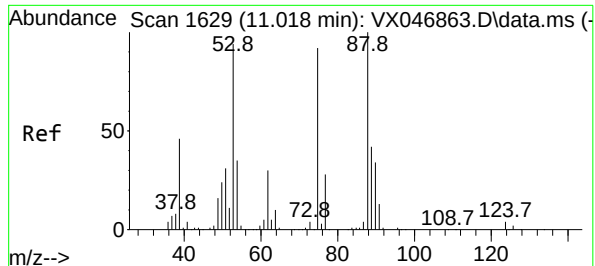
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#80
1,3,5-Trimethylbenzene
Concen: 20.370 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

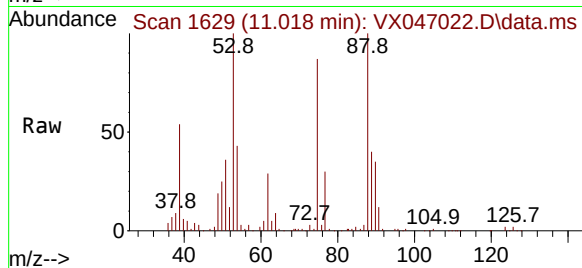
Tgt Ion:105 Resp: 286868
Ion Ratio Lower Upper
105 100
120 48.0 24.1 72.4





#81
trans-1,4-Dichloro-2-butene
Concen: 21.633 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

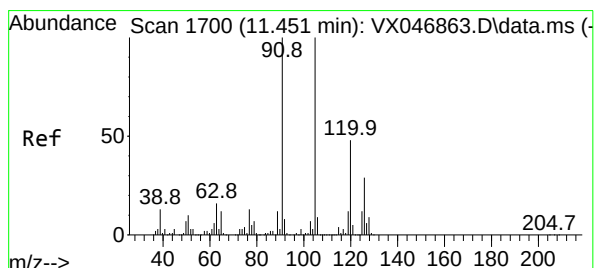
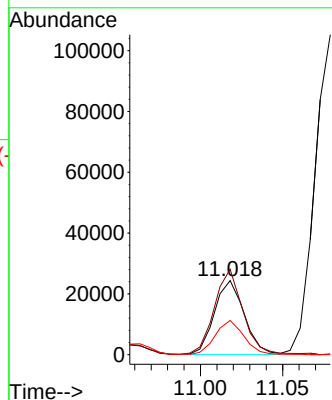
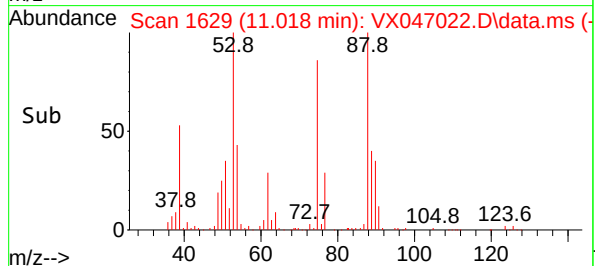
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBS01



Tgt Ion: 75 Resp: 30710
Ion Ratio Lower Upper
75 100
53 111.8 83.7 125.5
89 44.6 38.2 57.2

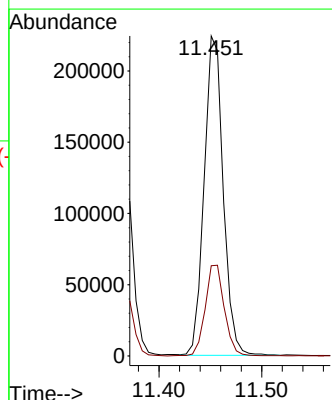
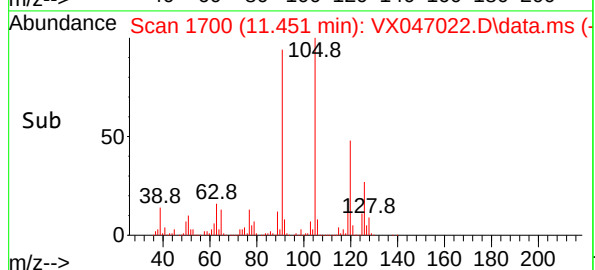
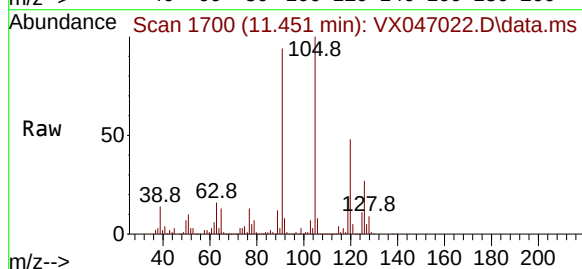
Manual Integrations
APPROVED

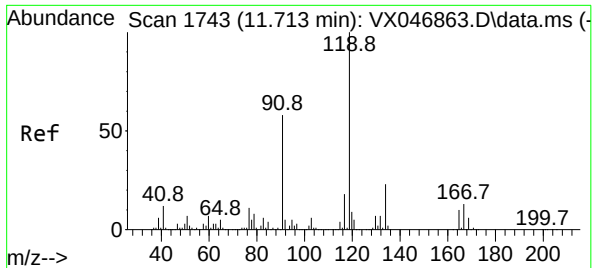
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#82
4-Chlorotoluene
Concen: 20.272 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

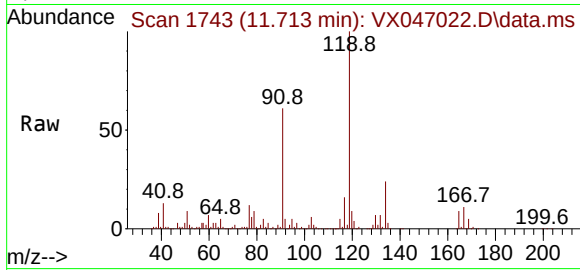
Tgt Ion: 91 Resp: 288682
Ion Ratio Lower Upper
91 100
126 28.8 14.6 44.0





#83
tert-Butylbenzene
Concen: 20.294 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

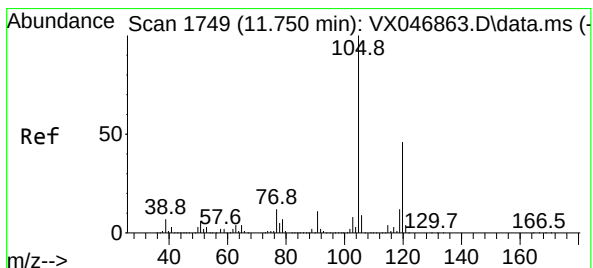
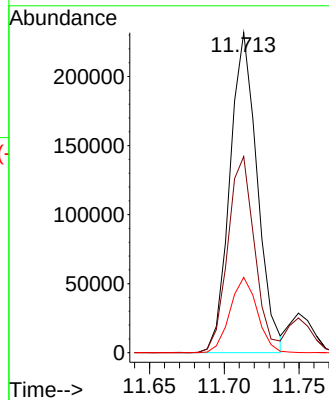
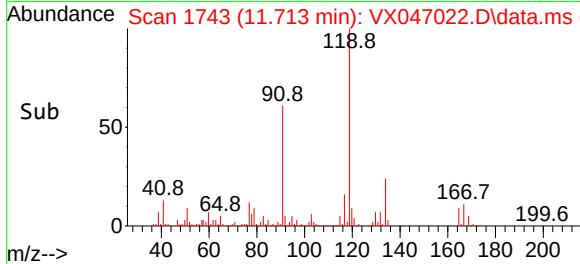
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBS01



Tgt Ion:119 Resp: 295179
Ion Ratio Lower Upper
119 100
91 60.6 28.7 86.3
134 23.4 11.4 34.2

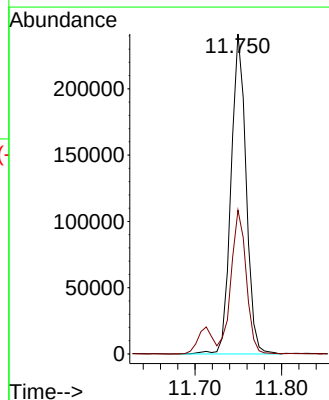
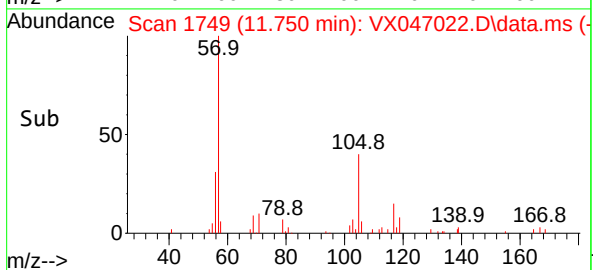
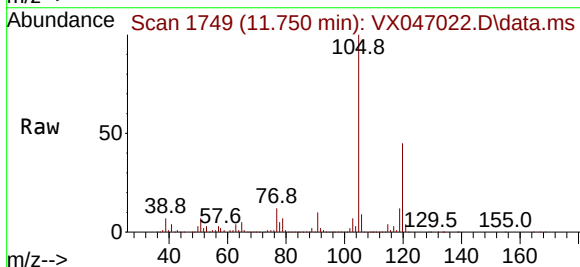
Manual Integrations
APPROVED

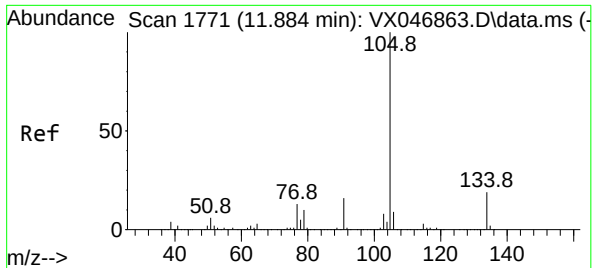
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#84
1,2,4-Trimethylbenzene
Concen: 20.475 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

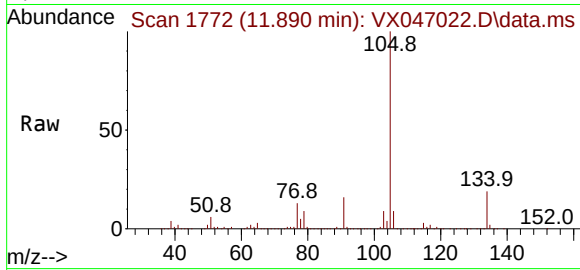
Tgt Ion:105 Resp: 291448
Ion Ratio Lower Upper
105 100
120 45.5 23.3 69.8





#85
sec-Butylbenzene
Concen: 20.178 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.006 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

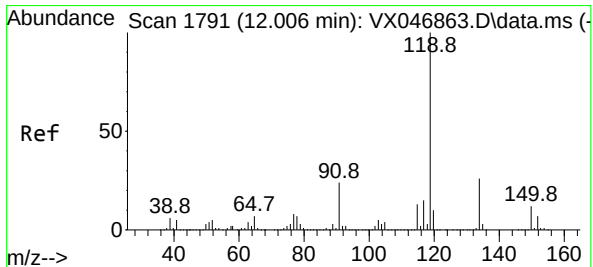
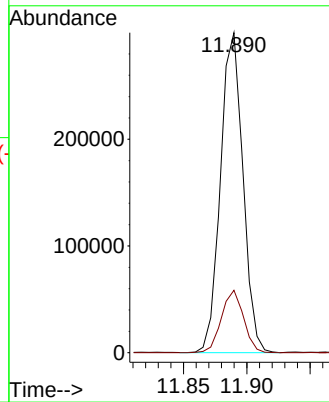
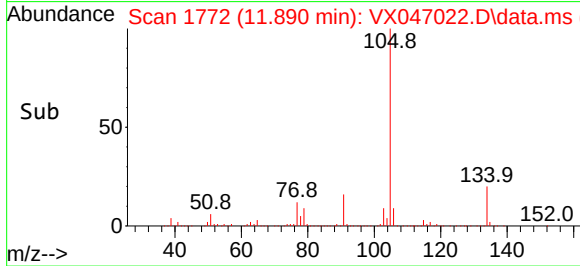
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBS01



Tgt Ion:105 Resp: 37003
Ion Ratio Lower Upper
105 100
134 19.2 9.9 29.7

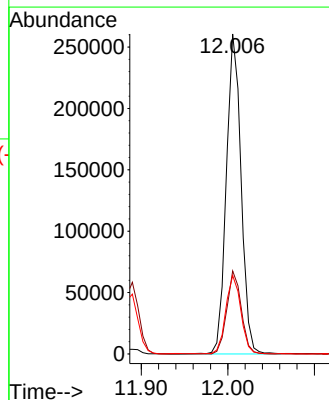
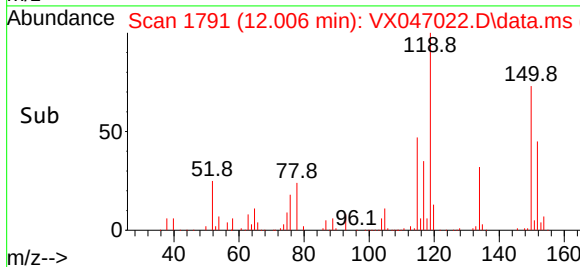
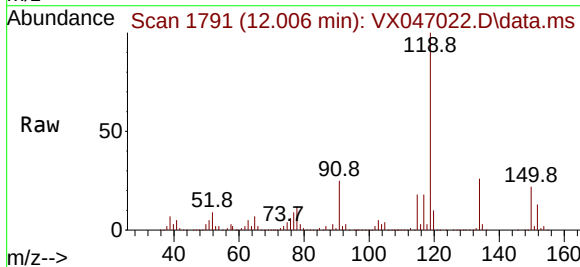
Manual Integrations
APPROVED

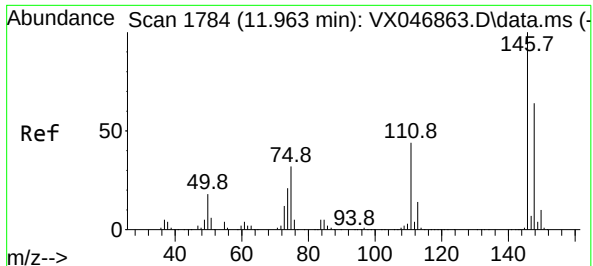
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#86
p-Isopropyltoluene
Concen: 20.060 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

Tgt Ion:119 Resp: 308064
Ion Ratio Lower Upper
119 100
134 25.5 13.0 39.0
91 24.8 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 19.748 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.006 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion:146 Resp: 15944

Ion Ratio Lower Upper

146 100

111 41.6 20.5 61.6

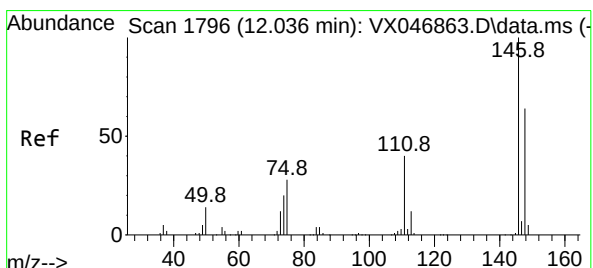
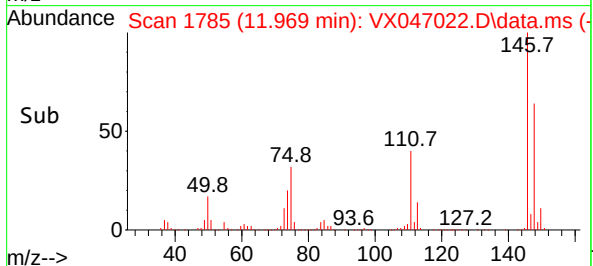
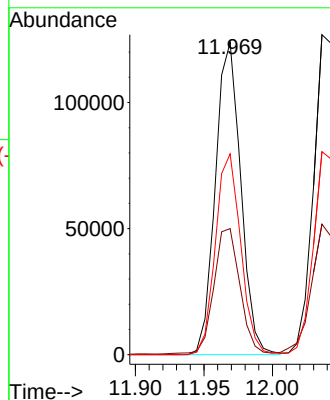
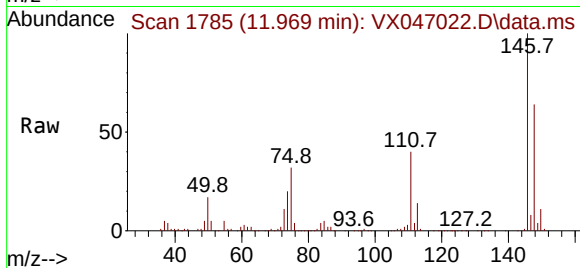
148 64.1 31.4 94.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#88

1,4-Dichlorobenzene

Concen: 19.227 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

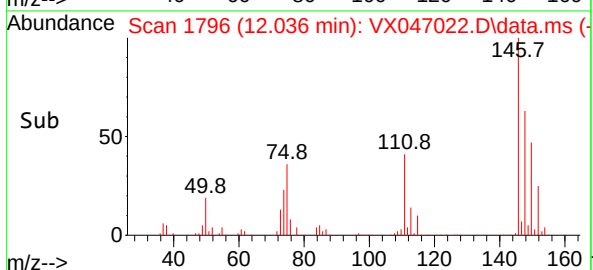
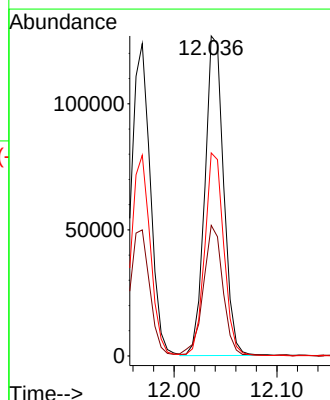
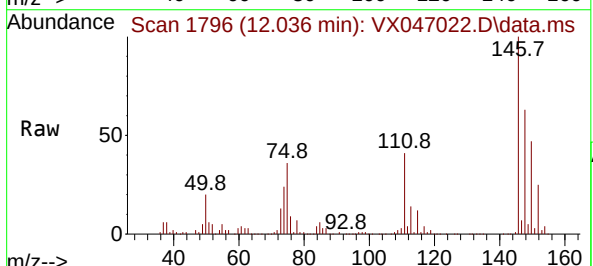
Tgt Ion:146 Resp: 161561

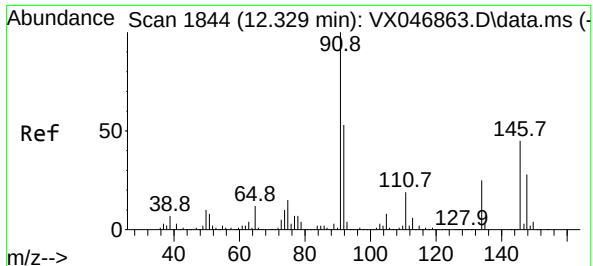
Ion Ratio Lower Upper

146 100

111 42.2 20.2 60.5

148 64.5 32.4 97.0





#89

n-Butylbenzene

Concen: 19.832 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion: 91 Resp: 286179

Ion Ratio Lower Upper

91 100

92 54.8 27.0 81.0

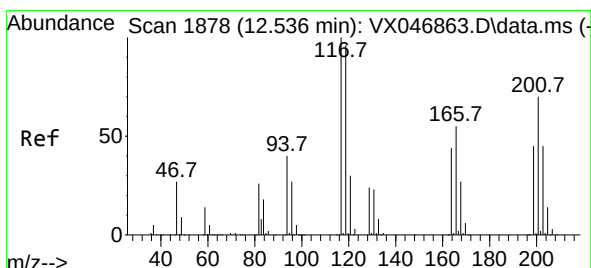
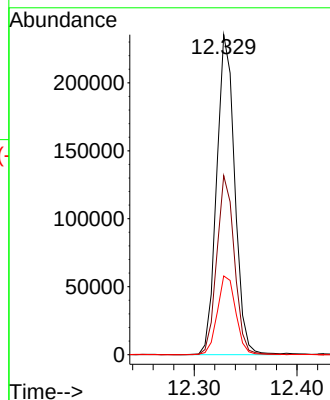
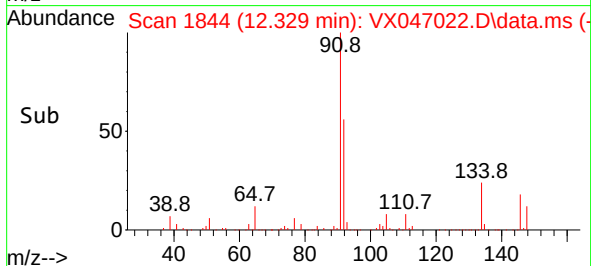
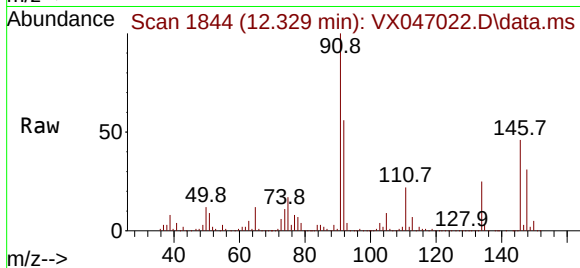
134 25.2 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#90

Hexachloroethane

Concen: 18.120 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX047022.D

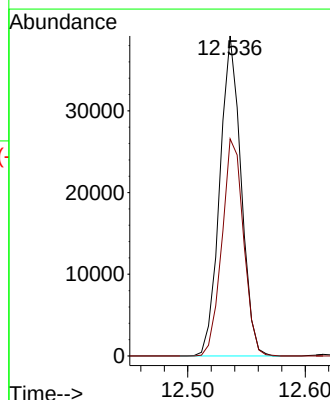
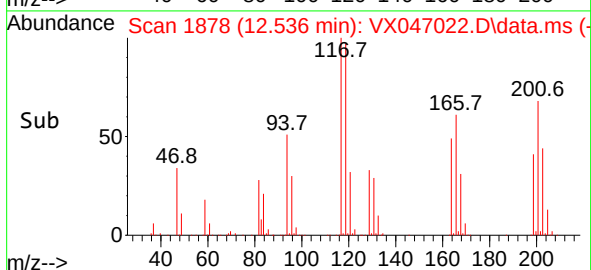
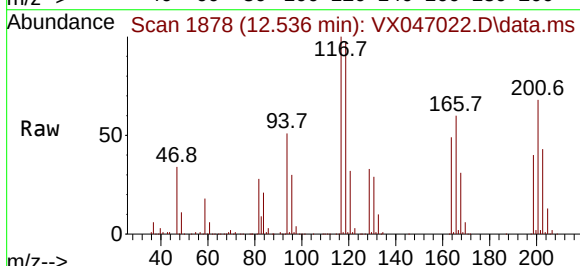
Acq: 16 Jul 2025 12:11

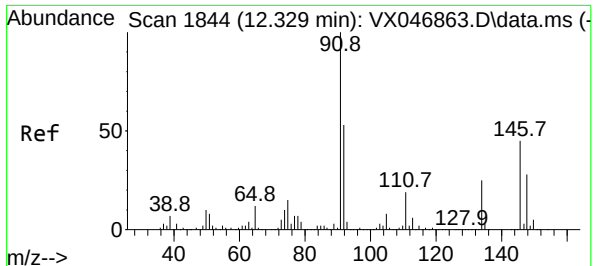
Tgt Ion:117 Resp: 49332

Ion Ratio Lower Upper

117 100

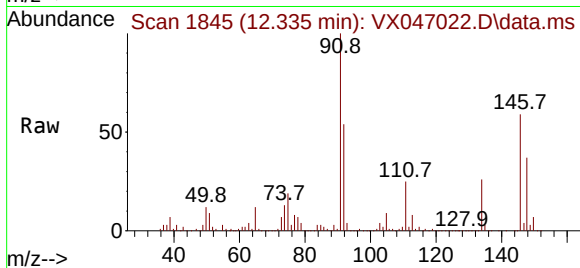
201 68.8 35.8 107.4





#91
1,2-Dichlorobenzene
Concen: 19.685 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

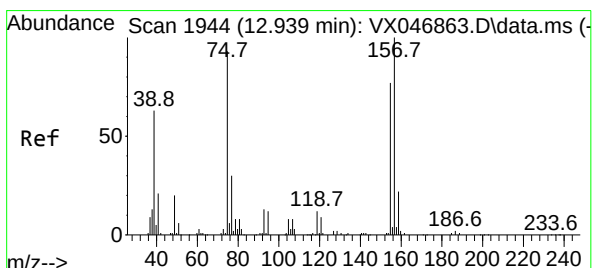
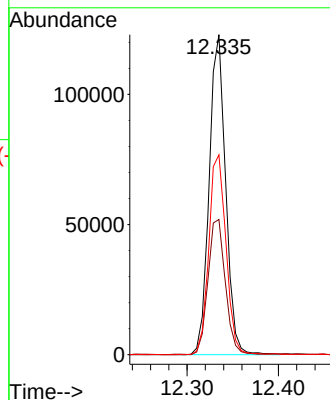
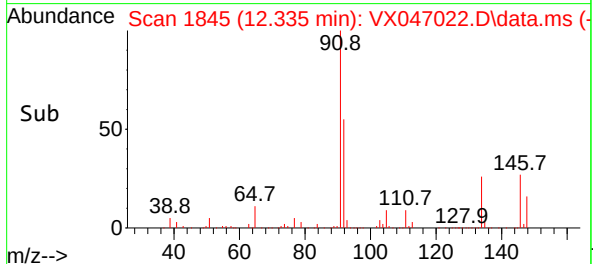
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBS01



Tgt Ion:146 Resp: 154014
Ion Ratio Lower Upper
146 100
111 44.4 21.1 63.1
148 65.2 31.6 95.0

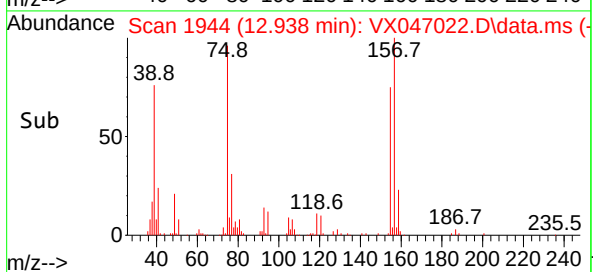
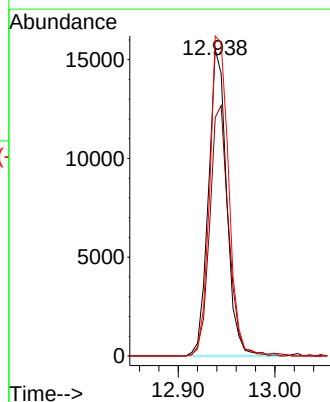
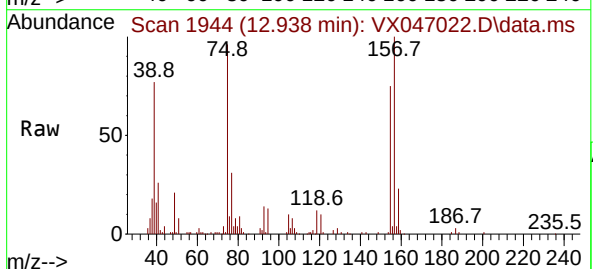
Manual Integrations
APPROVED

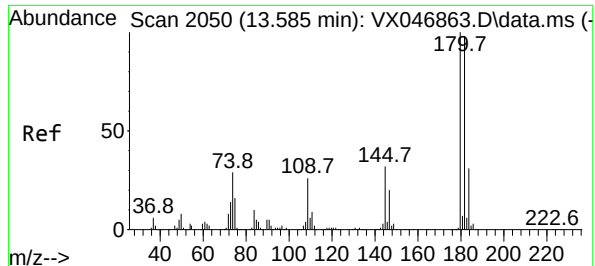
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 24.386 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX047022.D
Acq: 16 Jul 2025 12:11

Tgt Ion: 75 Resp: 20327
Ion Ratio Lower Upper
75 100
155 84.2 43.1 129.4
157 109.0 56.5 169.5





#93

1,2,4-Trichlorobenzene

Concen: 19.947 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBS01

Tgt Ion:180 Resp: 10602

Ion Ratio Lower Upper

180 100

182 94.5 47.3 141.9

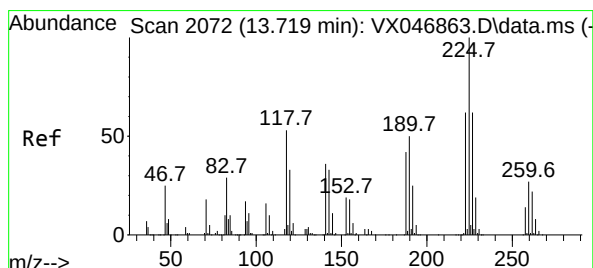
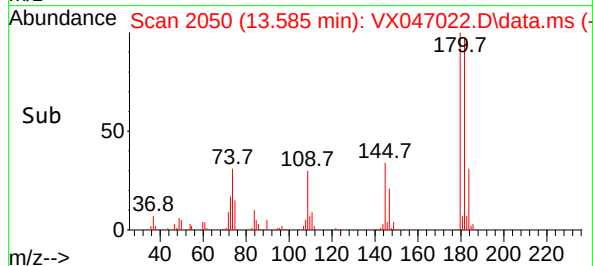
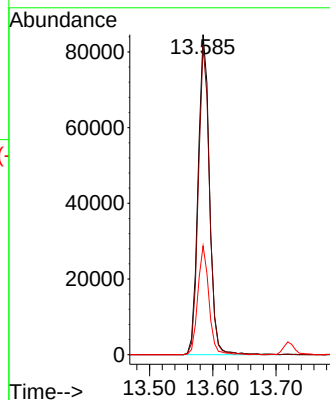
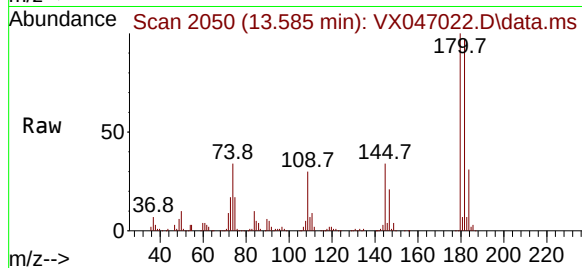
145 33.0 16.1 48.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#94

Hexachlorobutadiene

Concen: 18.191 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.006 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

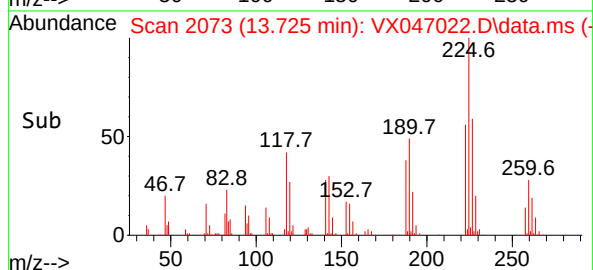
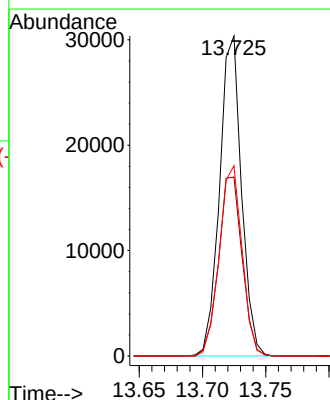
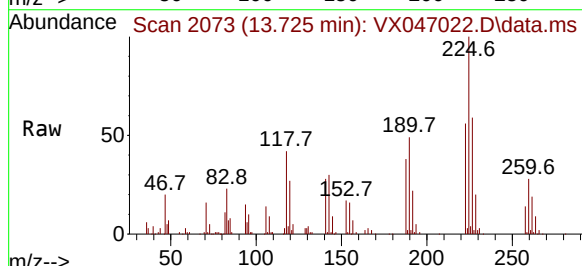
Tgt Ion:225 Resp: 36465

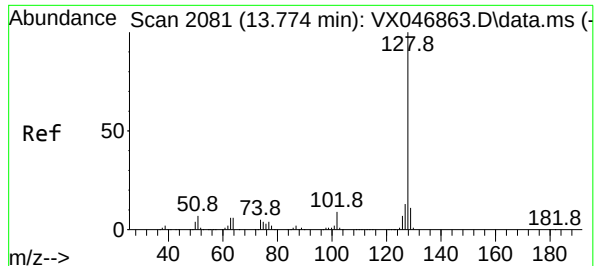
Ion Ratio Lower Upper

225 100

223 60.3 31.6 94.7

227 61.9 31.6 94.7





#95

Naphthalene

Concen: 23.928 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Instrument :

MSVOA_X

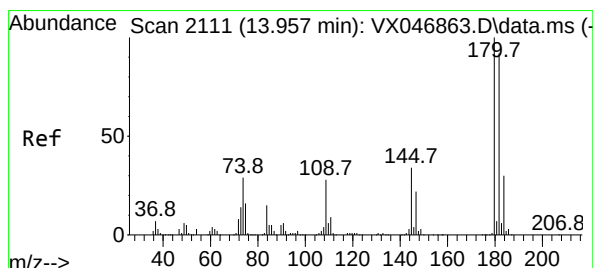
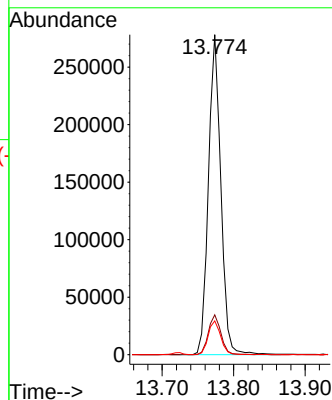
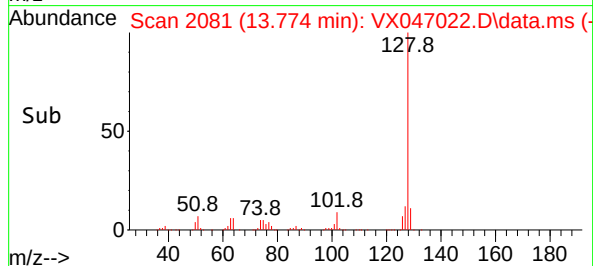
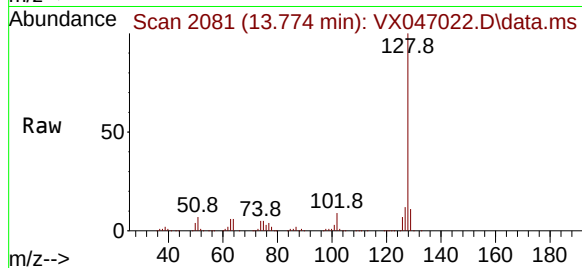
ClientSampleId :

VX0716WBS01

Tgt Ion:	128	Resp:	33514
Ion Ratio	Lower	Upper	
128	100		
127	12.7	10.2	15.4
129	10.7	8.6	13.0

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#96

1,2,3-Trichlorobenzene

Concen: 20.173 ug/l

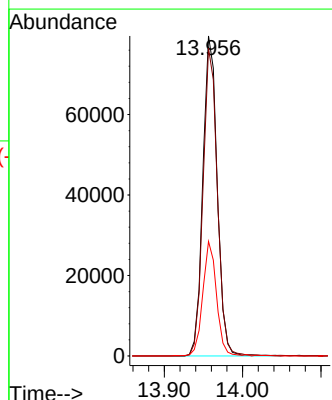
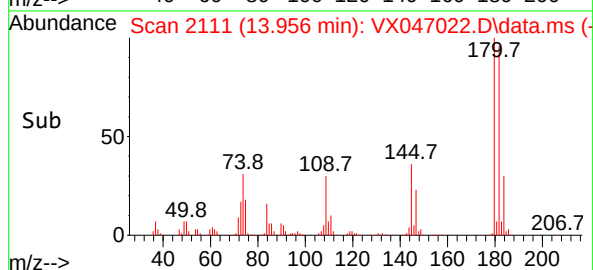
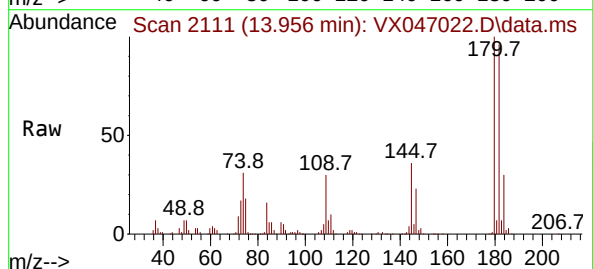
RT: 13.956 min Scan# 2111

Delta R.T. -0.000 min

Lab File: VX047022.D

Acq: 16 Jul 2025 12:11

Tgt Ion:	180	Resp:	101316
Ion Ratio	Lower	Upper	
180	100		
182	95.6	46.7	140.1
145	34.3	16.8	50.3



Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	
Project:	Con Edison - East River Site 2		Date Received:	
Client Sample ID:	VX0716WBSD01		SDG No.:	Q2592
Lab Sample ID:	VX0716WBSD01		Matrix:	TCLP
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	TCLP VOA
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047023.D	1	07/16/25 12:38	VX071625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	17.0		0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	17.9		0.23	5.00	ug/L
78-93-3	2-Butanone	150		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	18.3		0.25	5.00	ug/L
67-66-3	Chloroform	20.7		0.25	5.00	ug/L
71-43-2	Benzene	18.5		0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	20.8		0.22	5.00	ug/L
79-01-6	Trichloroethene	17.5		0.090	5.00	ug/L
127-18-4	Tetrachloroethene	17.6		0.23	5.00	ug/L
108-90-7	Chlorobenzene	19.3		0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.4		74 - 125	111%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	48.0		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.0		77 - 121	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	311000	5.562			
540-36-3	1,4-Difluorobenzene	533000	6.769			
3114-55-4	Chlorobenzene-d5	476000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	244000	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
 Data File : VX047023.D
 Acq On : 16 Jul 2025 12:38
 Operator : JC/MD
 Sample : VX0716WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0716WBSD01

Quant Time: Jul 17 03:31:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
 Supervised By :Semsettin Yesilyurt 07/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	310963	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	532754	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	475577	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	244320	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	227592	55.400	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 110.800%			
35) Dibromofluoromethane	5.397	113	181433	50.170	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.340%			
50) Toluene-d8	8.647	98	612865	48.033	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 96.060%			
62) 4-Bromofluorobenzene	11.079	95	252192	52.006	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.020%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.185	85	49096	16.509	ug/l	98
3) Chloromethane	1.307	50	51956	15.990	ug/l	98
4) Vinyl Chloride	1.386	62	60017	16.962	ug/l	97
5) Bromomethane	1.624	94	38769	17.053	ug/l	93
6) Chloroethane	1.703	64	41048	17.569	ug/l	97
7) Trichlorofluoromethane	1.904	101	99111	18.116	ug/l	99
8) Diethyl Ether	2.148	74	39664	20.372	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.343	101	62681	17.980	ug/l	97
10) Methyl Iodide	2.465	142	60656	15.970	ug/l	97
11) Tert butyl alcohol	2.959	59	48602	180.387	ug/l	100
12) 1,1-Dichloroethene	2.337	96	60368	17.903	ug/l	95
13) Acrolein	2.246	56	30221	103.190	ug/l	98
14) Allyl chloride	2.678	41	119071	19.834	ug/l	99
15) Acrylonitrile	3.075	53	201172	129.142	ug/l	99
16) Acetone	2.386	43	156920	122.971	ug/l	99
17) Carbon Disulfide	2.526	76	121351	13.723	ug/l	99
18) Methyl Acetate	2.715	43	111328	33.100	ug/l	98
19) Methyl tert-butyl Ether	3.123	73	228526	23.999	ug/l	100
20) Methylene Chloride	2.800	84	73061	19.362	ug/l	98
21) trans-1,2-Dichloroethene	3.105	96	63740	18.473	ug/l	99
22) Diisopropyl ether	3.770	45	261236	22.524	ug/l	89
23) Vinyl Acetate	3.733	43	986860	113.574	ug/l	98
24) 1,1-Dichloroethane	3.623	63	131590	19.894	ug/l	99
25) 2-Butanone	4.562	43	248450	145.931	ug/l	98
26) 2,2-Dichloropropane	4.483	77	95586	19.417	ug/l	99
27) cis-1,2-Dichloroethene	4.501	96	82717	19.635	ug/l	97
28) Bromochloromethane	4.910	49	61014	18.690	ug/l	95
29) Tetrahydrofuran	5.013	42	160467	147.857	ug/l	98
30) Chloroform	5.105	83	139773	20.683	ug/l	97
31) Cyclohexane	5.477	56	108129	18.414	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	114572	20.293	ug/l	100
36) 1,1-Dichloropropene	5.702	75	87804	17.995	ug/l	98
37) Ethyl Acetate	4.727	43	86680	20.858	ug/l #	94
38) Carbon Tetrachloride	5.690	117	94394	18.299	ug/l	94
39) Methylcyclohexane	7.385	83	105608	17.303	ug/l	97
40) Benzene	6.050	78	273717	18.547	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
 Data File : VX047023.D
 Acq On : 16 Jul 2025 12:38
 Operator : JC/MD
 Sample : VX0716WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0716WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
 Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:31:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	56984	25.705	ug/l	99
42) 1,2-Dichloroethane	6.099	62	104433	20.839	ug/l	98
43) Isopropyl Acetate	6.349	43	165597	26.016	ug/l	98
44) Trichloroethene	7.135	130	67259	17.508	ug/l	93
45) 1,2-Dichloropropane	7.434	63	71486	19.172	ug/l	100
46) Dibromomethane	7.586	93	51551	19.955	ug/l	99
47) Bromodichloromethane	7.824	83	108144	19.605	ug/l	99
48) Methyl methacrylate	7.696	41	83994	25.556	ug/l	97
49) 1,4-Dioxane	7.665	88	23431	615.261	ug/l	99
51) 4-Methyl-2-Pentanone	8.574	43	527811	140.501	ug/l	100
52) Toluene	8.720	92	171783	18.784	ug/l	99
53) t-1,3-Dichloropropene	8.982	75	100411	20.396	ug/l	96
54) cis-1,3-Dichloropropene	8.366	75	112850	20.083	ug/l	98
55) 1,1,2-Trichloroethane	9.153	97	73572	21.599	ug/l	98
56) Ethyl methacrylate	9.116	69	112484	23.859	ug/l	97
57) 1,3-Dichloropropane	9.305	76	124079	21.154	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.245	63	285718	107.557	ug/l	100
59) 2-Hexanone	9.427	43	369099	148.127	ug/l	98
60) Dibromochloromethane	9.519	129	80917	19.850	ug/l	99
61) 1,2-Dibromoethane	9.610	107	72872	21.301	ug/l	100
64) Tetrachloroethene	9.275	164	55710	17.594	ug/l	96
65) Chlorobenzene	10.080	112	198911	19.345	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	68775	19.897	ug/l	99
67) Ethyl Benzene	10.195	91	342761	19.466	ug/l	100
68) m/p-Xylenes	10.299	106	254016	38.283	ug/l	98
69) o-Xylene	10.640	106	127197	19.845	ug/l	100
70) Styrene	10.653	104	222974	20.334	ug/l	98
71) Bromoform	10.799	173	53972	21.000	ug/l #	99
73) Isopropylbenzene	10.964	105	336818	19.611	ug/l	100
74) N-amyl acetate	10.842	43	145799	24.982	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	112051	23.726	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	89508m	23.710	ug/l	
77) Bromobenzene	11.195	156	81849	19.132	ug/l	96
78) n-propylbenzene	11.305	91	403821	19.499	ug/l	99
79) 2-Chlorotoluene	11.360	91	240448	19.663	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	276062	19.782	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	30184	21.456	ug/l	94
82) 4-Chlorotoluene	11.451	91	280292	19.863	ug/l	99
83) tert-Butylbenzene	11.713	119	285261	19.791	ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	284011	20.135	ug/l	96
85) sec-Butylbenzene	11.890	105	359225	19.767	ug/l	100
86) p-Isopropyltoluene	12.006	119	299629	19.689	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	155459	19.430	ug/l	98
88) 1,4-Dichlorobenzene	12.037	146	154431	18.546	ug/l	96
89) n-Butylbenzene	12.329	91	277265	19.390	ug/l	99
90) Hexachloroethane	12.536	117	47758	17.702	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	151809	19.580	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	20906	25.310	ug/l	93
93) 1,2,4-Trichlorobenzene	13.585	180	105819	20.090	ug/l	97
94) Hexachlorobutadiene	13.725	225	37519	18.888	ug/l	99
95) Naphthalene	13.774	128	329691	23.754	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	99385	19.969	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071625\
Data File : VX047023.D
Acq On : 16 Jul 2025 12:38
Operator : JC/MD
Sample : VX0716WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025

Quant Time: Jul 17 03:31:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 03 05:51:11 2025
Response via : Initial Calibration

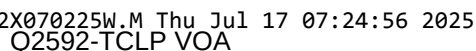
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

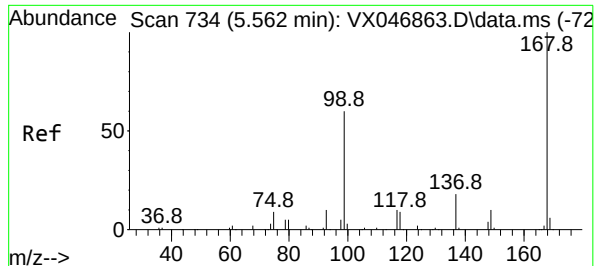
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01

Manual Integrations

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025





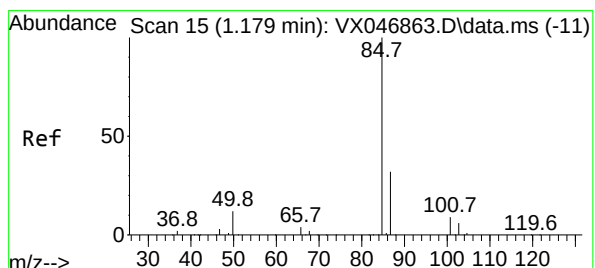
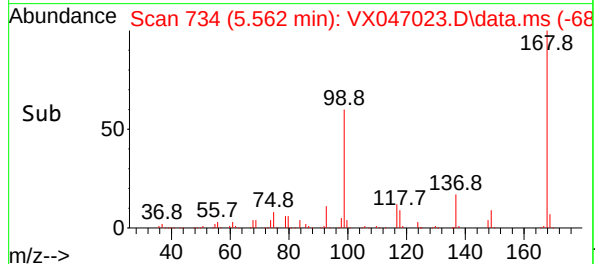
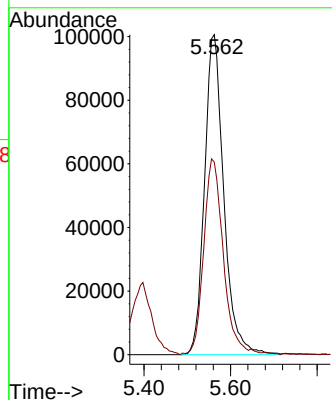
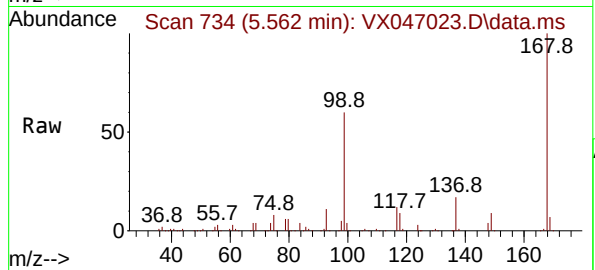
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Instrument :
MSVOA_X
Client Sample Id :
VX0716WBSD01

Tgt Ion:168 Resp: 31096
Ion Ratio Lower Upper
168 100
99 60.1 48.8 73.2

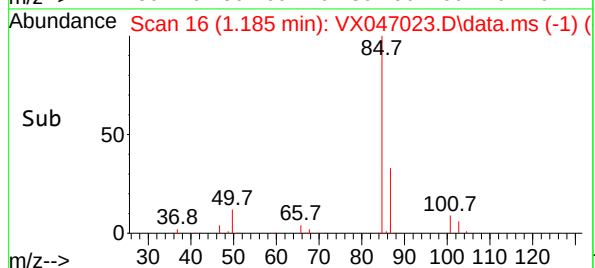
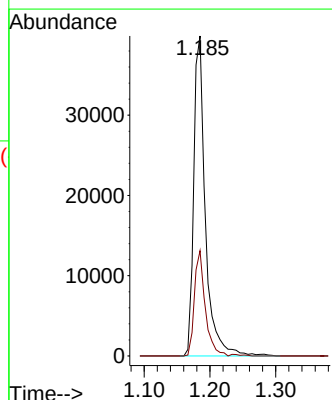
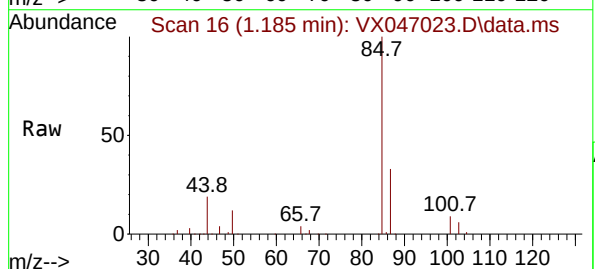
Manual Integrations
APPROVED

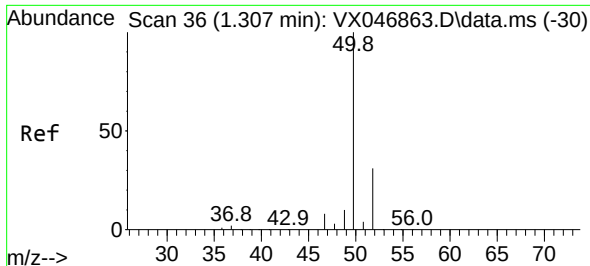
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#2
Dichlorodifluoromethane
Concen: 16.509 ug/l
RT: 1.185 min Scan# 16
Delta R.T. 0.006 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Tgt Ion: 85 Resp: 49096
Ion Ratio Lower Upper
85 100
87 32.9 16.0 47.9





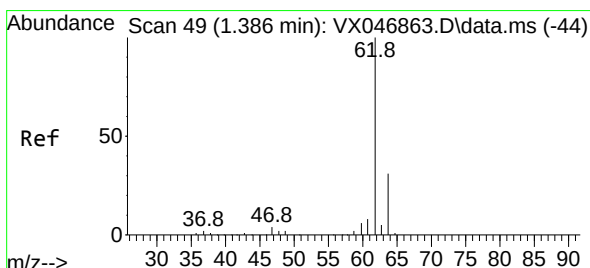
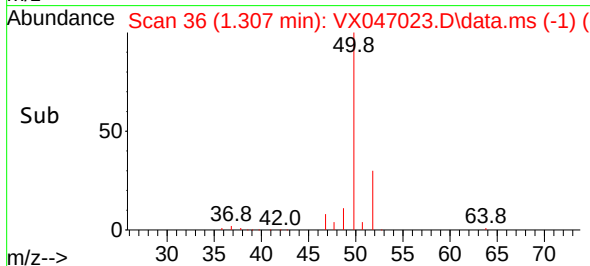
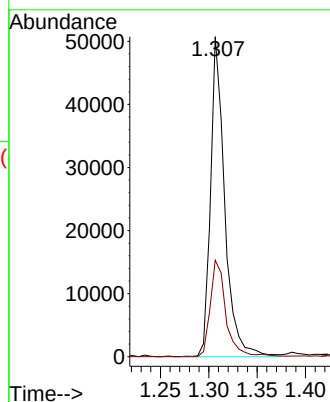
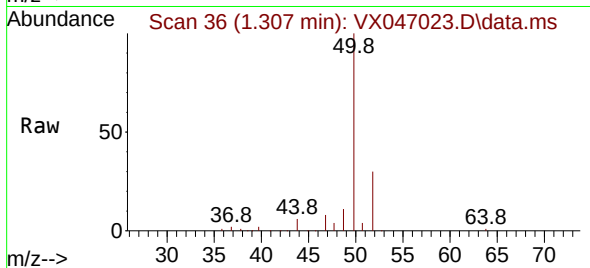
#3
Chloromethane
Concen: 15.990 ug/l
RT: 1.307 min Scan# 30
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01

Tgt Ion: 50 Resp: 51950
Ion Ratio Lower Upper
50 100
52 30.2 25.0 37.4

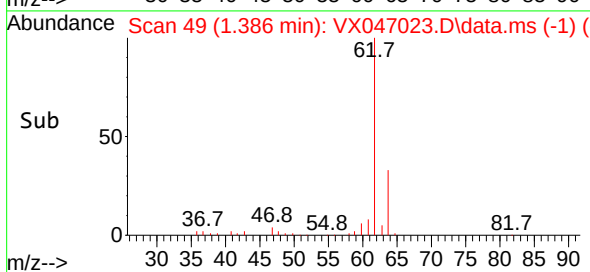
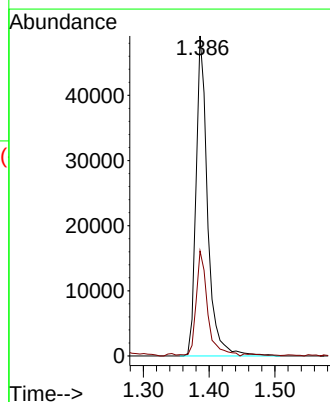
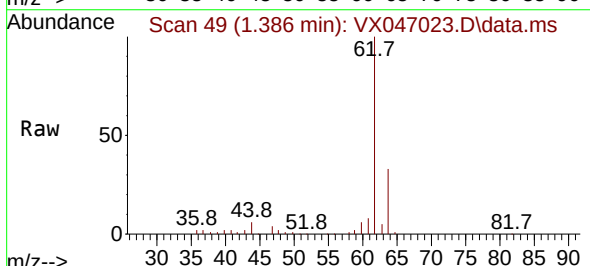
Manual Integrations
APPROVED

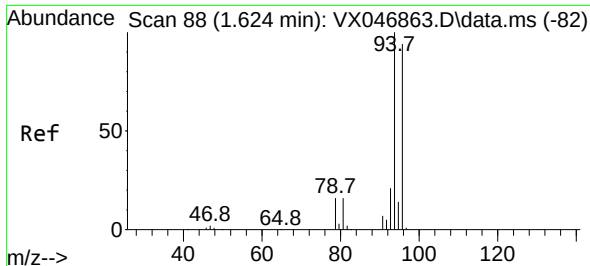
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#4
Vinyl Chloride
Concen: 16.962 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

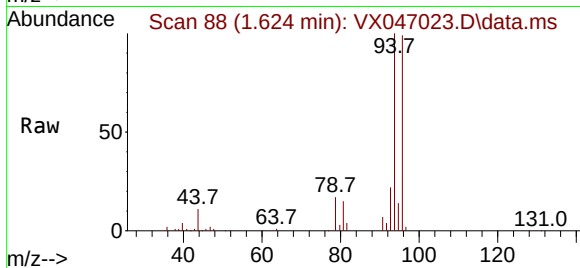
Tgt Ion: 62 Resp: 60017
Ion Ratio Lower Upper
62 100
64 32.6 25.0 37.4





#5
Bromomethane
Concen: 17.053 ug/l
RT: 1.624 min Scan# 88
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

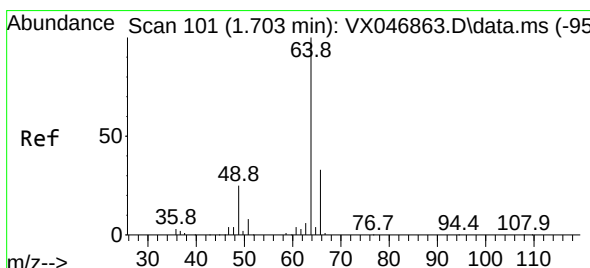
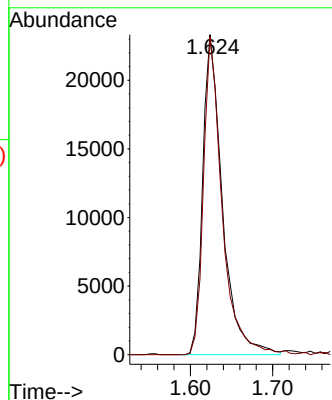
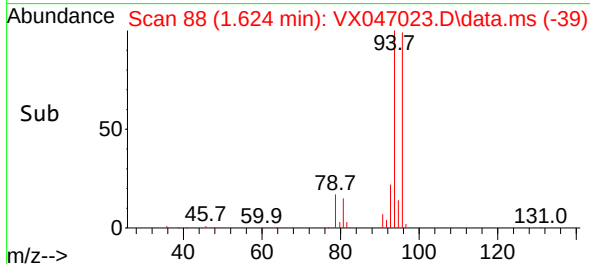
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01



Tgt Ion: 94 Resp: 38769
Ion Ratio Lower Upper
94 100
96 100.9 75.5 113.3

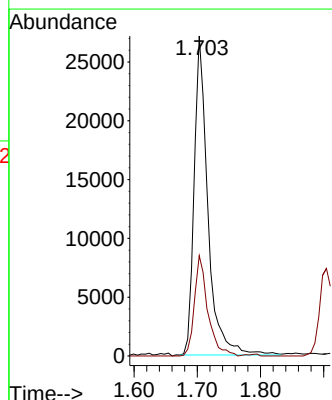
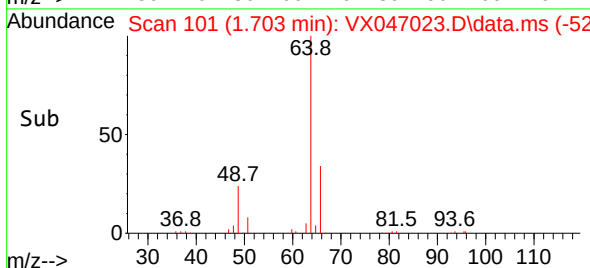
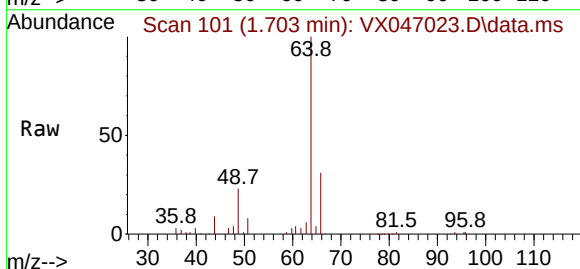
Manual Integrations
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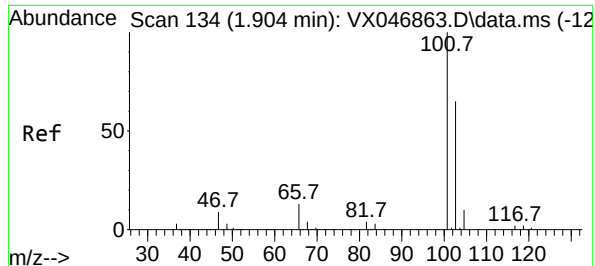
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#6
Chloroethane
Concen: 17.569 ug/l
RT: 1.703 min Scan# 101
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Tgt Ion: 64 Resp: 41048
Ion Ratio Lower Upper
64 100
66 31.4 26.4 39.6





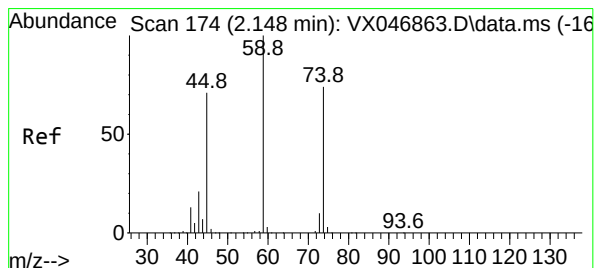
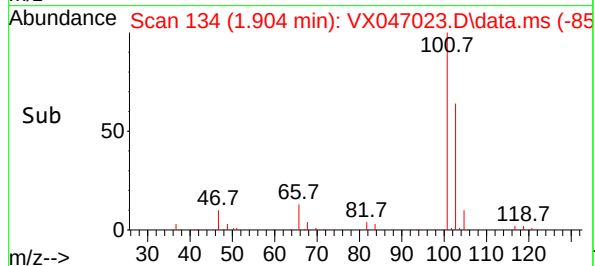
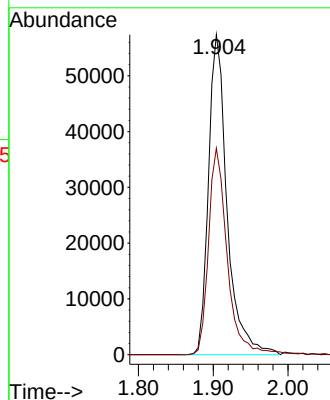
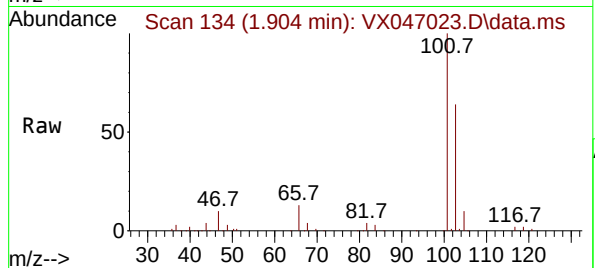
#7
Trichlorofluoromethane
Concen: 18.116 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01

Tgt Ion:101 Resp: 9911
Ion Ratio Lower Upper
101 100
103 64.5 51.9 77.9

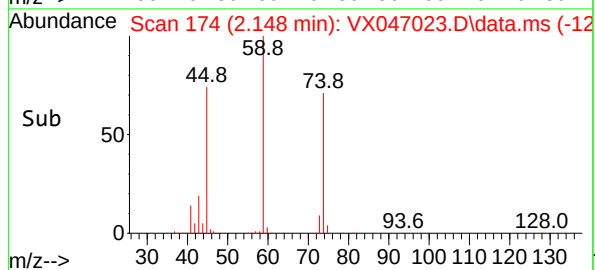
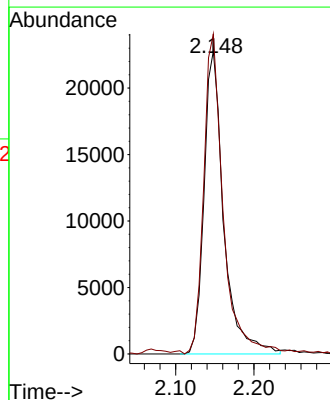
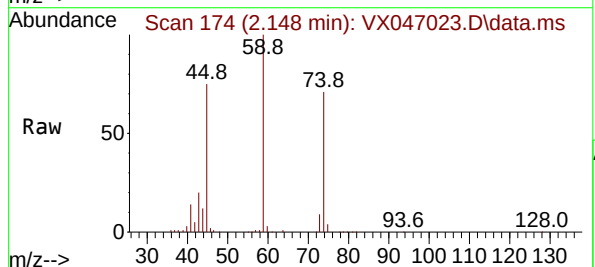
Manual Integrations
APPROVED

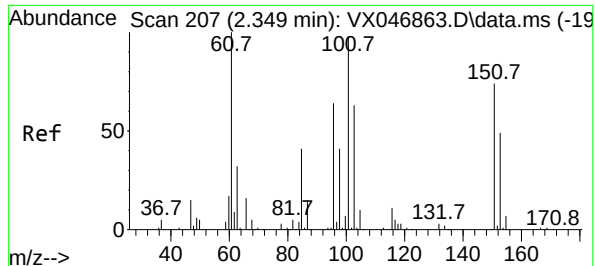
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#8
Diethyl Ether
Concen: 20.372 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

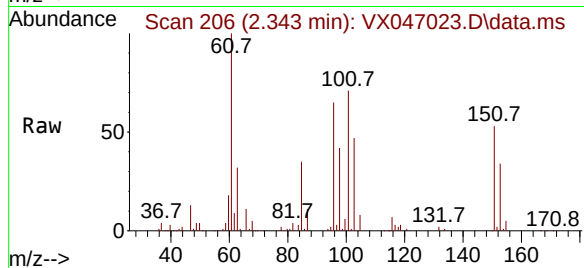
Tgt Ion: 74 Resp: 39664
Ion Ratio Lower Upper
74 100
45 105.7 50.7 152.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.980 ug/l
RT: 2.343 min Scan# 207
Delta R.T. -0.006 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

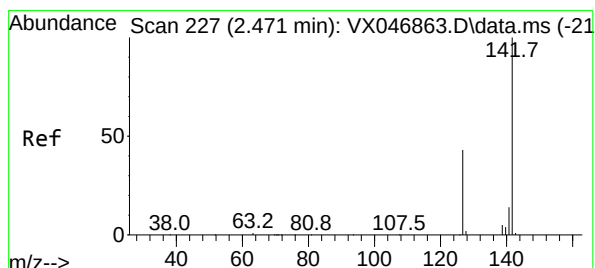
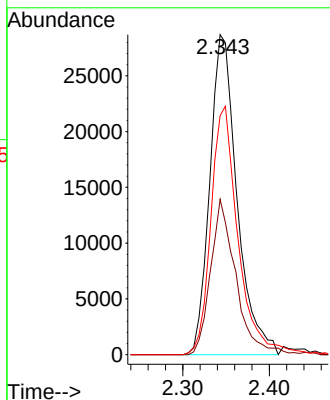
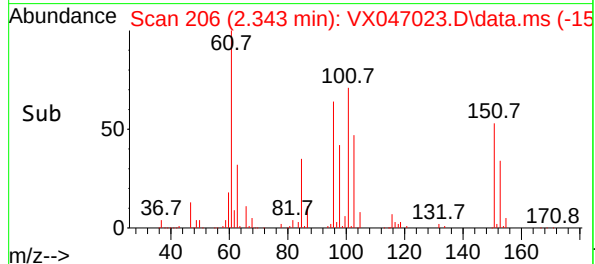
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01



Tgt Ion:101 Resp: 6268
Ion Ratio Lower Upper
101 100
85 45.1 34.3 51.5
151 77.7 59.9 89.9

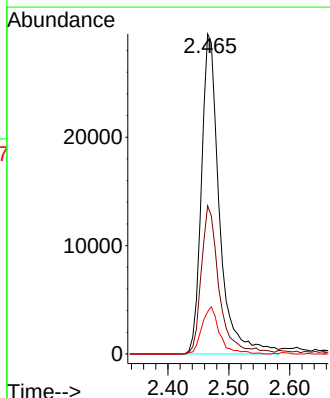
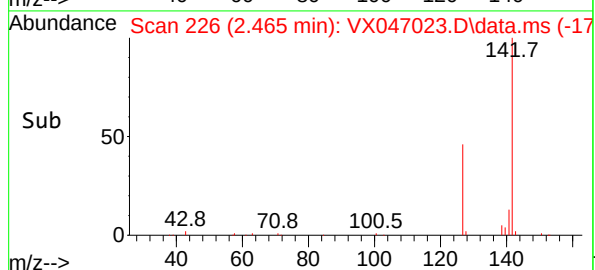
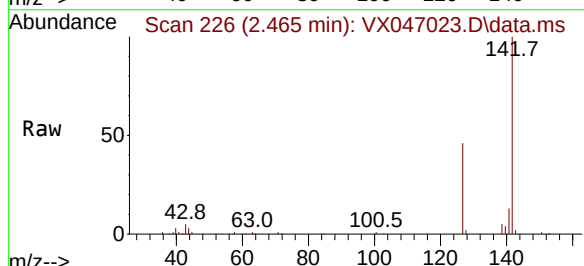
Manual Integrations
APPROVED

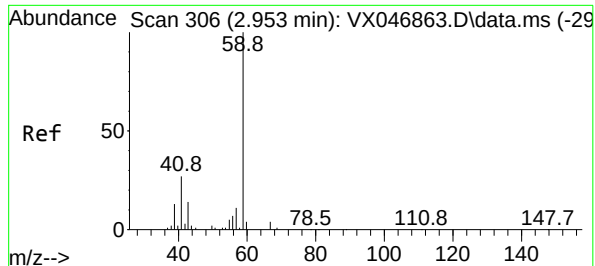
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#10
Methyl Iodide
Concen: 15.970 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Tgt Ion:142 Resp: 60656
Ion Ratio Lower Upper
142 100
127 46.2 34.9 52.3
141 14.5 11.1 16.7





#11

Tert butyl alcohol

Concen: 180.387 ug/l

RT: 2.959 min Scan# 306

Delta R.T. 0.006 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion: 59 Resp: 4860

Ion Ratio Lower Upper

59 100

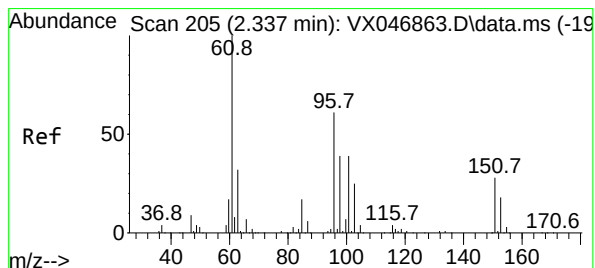
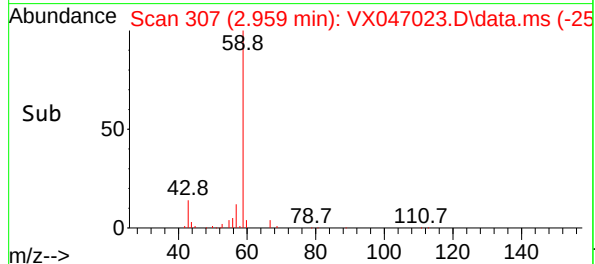
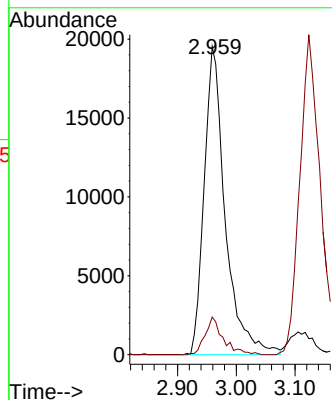
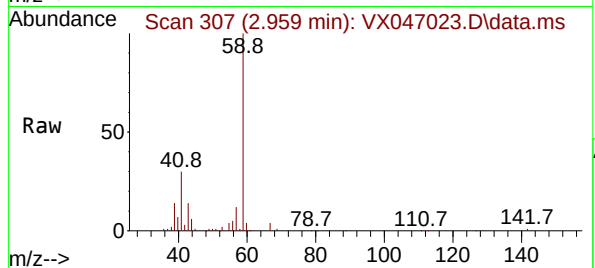
57 10.5 8.5 12.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#12

1,1-Dichloroethene

Concen: 17.903 ug/l

RT: 2.337 min Scan# 205

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

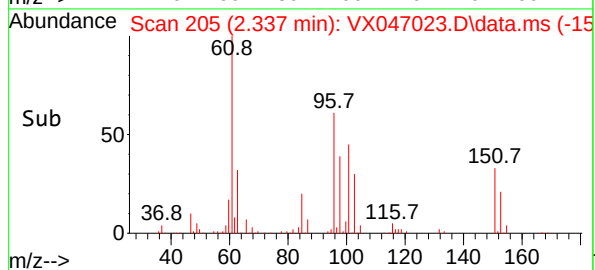
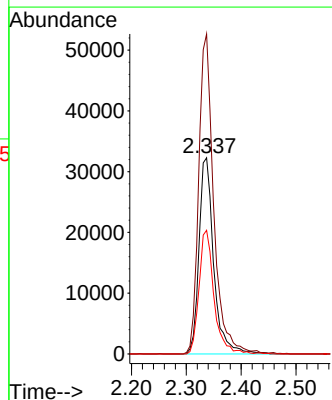
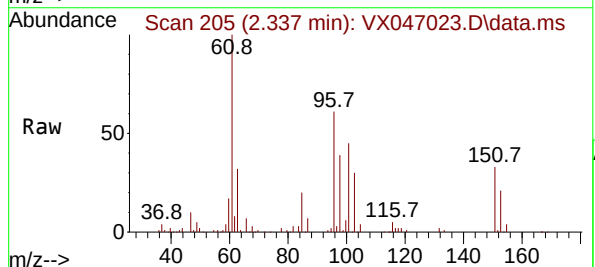
Tgt Ion: 96 Resp: 60368

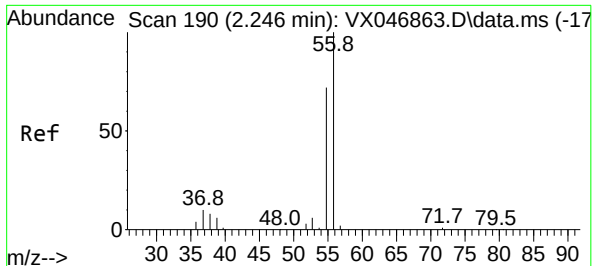
Ion Ratio Lower Upper

96 100

61 156.7 130.2 195.4

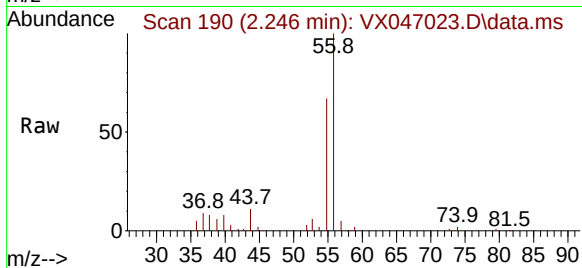
98 60.5 51.3 76.9





#13
Acrolein
Concen: 103.190 ug/l
RT: 2.246 min Scan# 190
Delta R.T. -0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

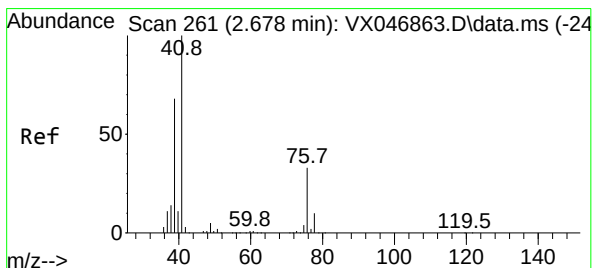
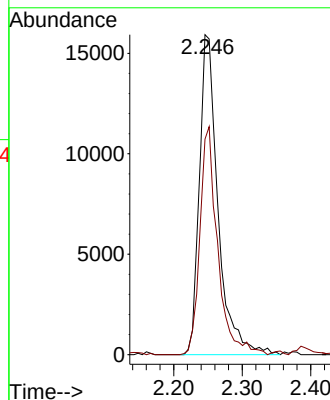
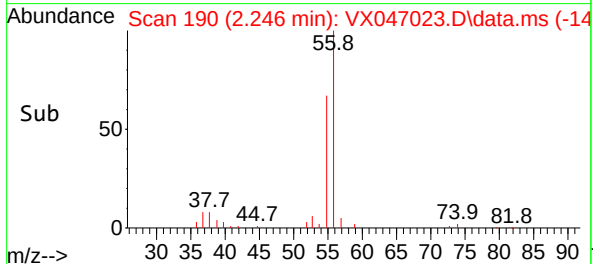
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01



Tgt Ion: 56 Resp: 3022
Ion Ratio Lower Upper
56 100
55 67.7 55.5 83.3

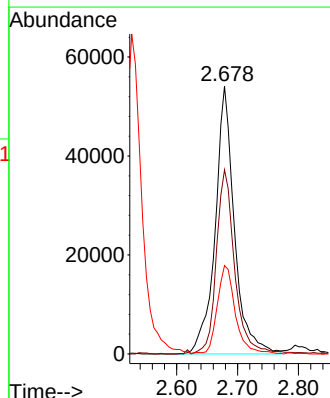
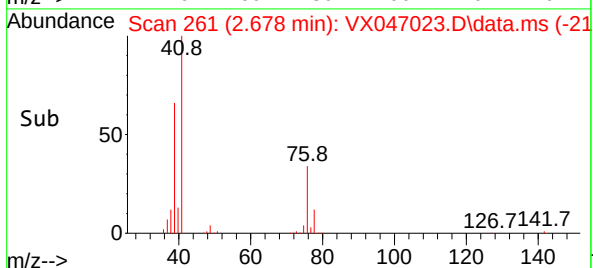
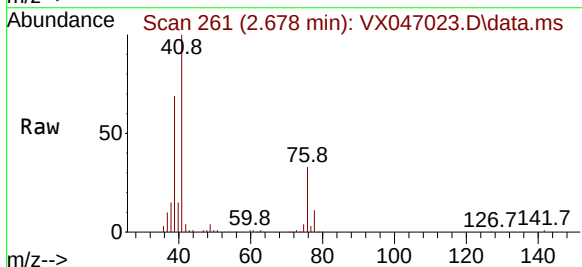
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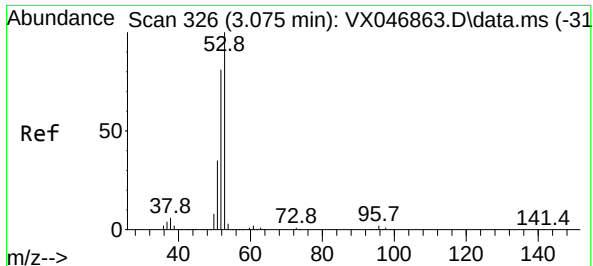
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#14
Allyl chloride
Concen: 19.834 ug/l
RT: 2.678 min Scan# 261
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Tgt Ion: 41 Resp: 119071
Ion Ratio Lower Upper
41 100
39 64.7 52.0 78.0
76 31.1 26.2 39.2





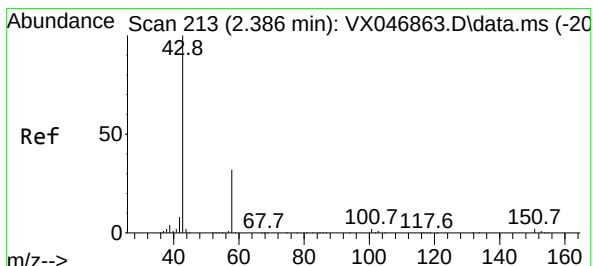
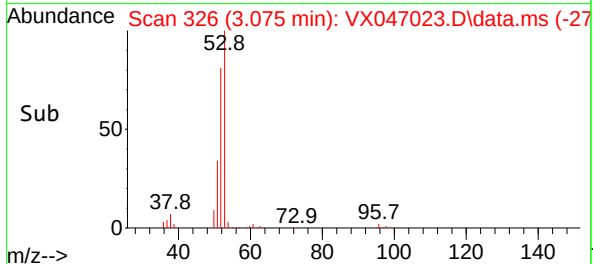
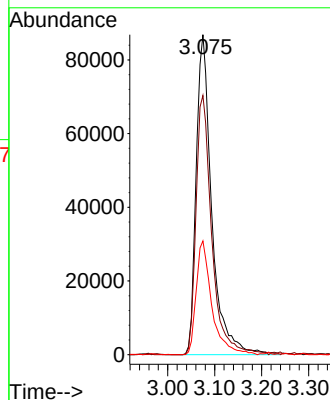
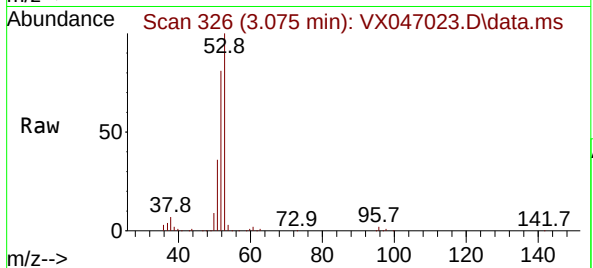
#15
Acrylonitrile
Concen: 129.142 ug/l
RT: 3.075 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01

Tgt Ion: 53 Resp: 20117
Ion Ratio Lower Upper
53 100
52 81.6 66.0 99.0
51 35.7 28.6 43.0

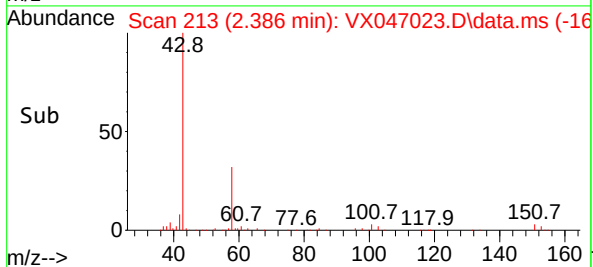
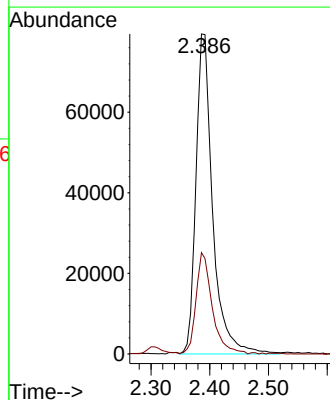
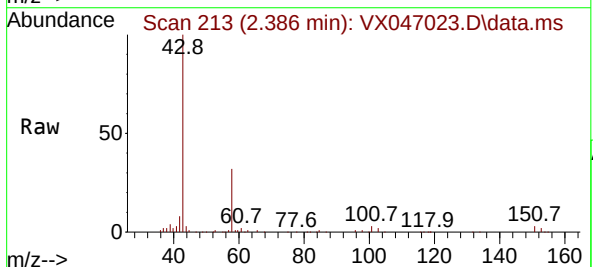
Manual Integrations
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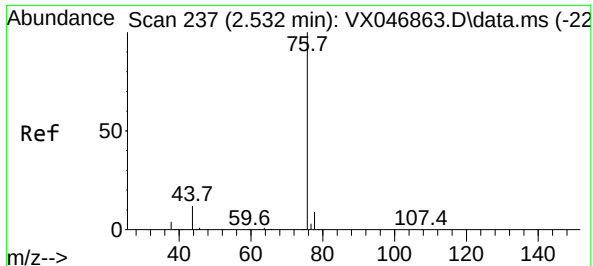
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#16
Acetone
Concen: 122.971 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Tgt Ion: 43 Resp: 156920
Ion Ratio Lower Upper
43 100
58 31.6 25.8 38.6





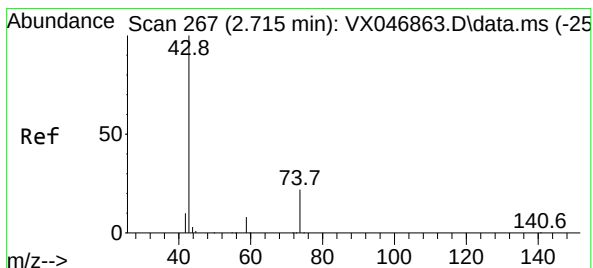
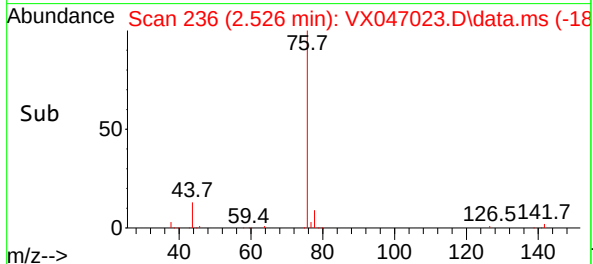
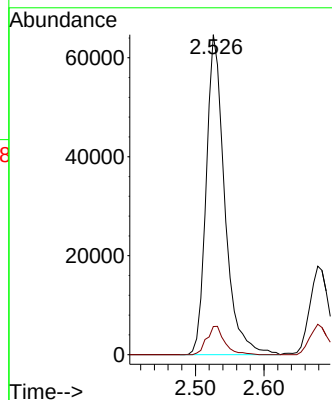
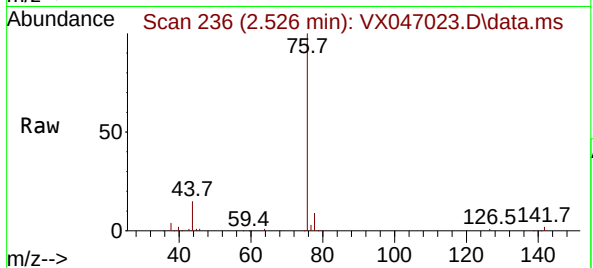
#17
Carbon Disulfide
Concen: 13.723 ug/l
RT: 2.526 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01

Tgt Ion: 76 Resp: 12135
Ion Ratio Lower Upper
76 100
78 8.8 7.4 11.2

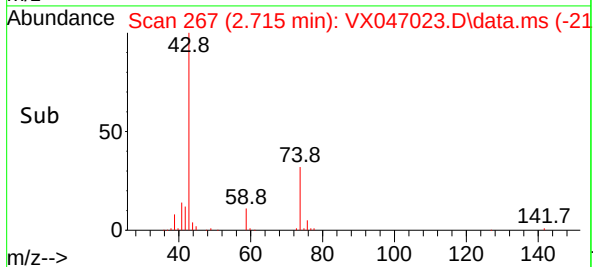
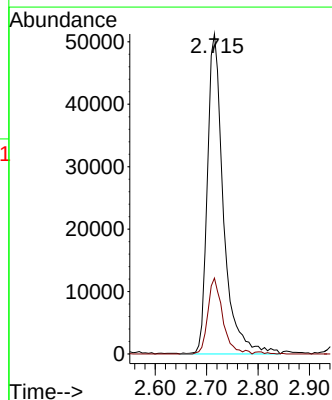
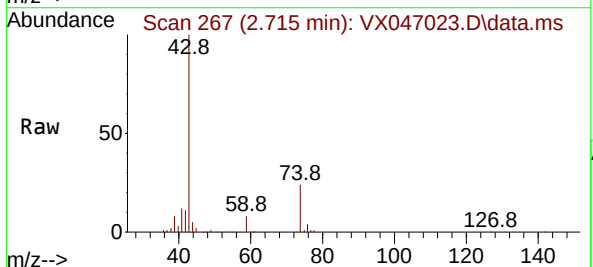
Manual Integrations
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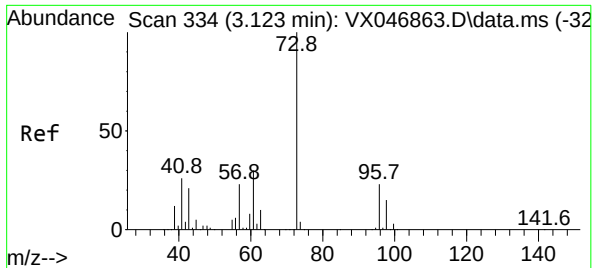
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#18
Methyl Acetate
Concen: 33.100 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Tgt Ion: 43 Resp: 111328
Ion Ratio Lower Upper
43 100
74 21.9 18.3 27.5





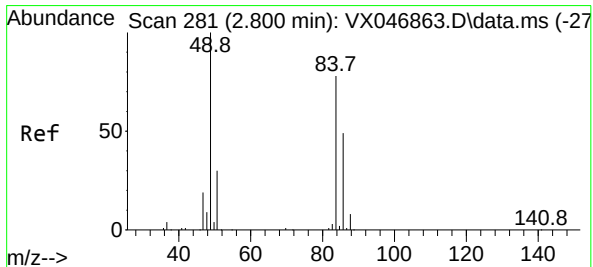
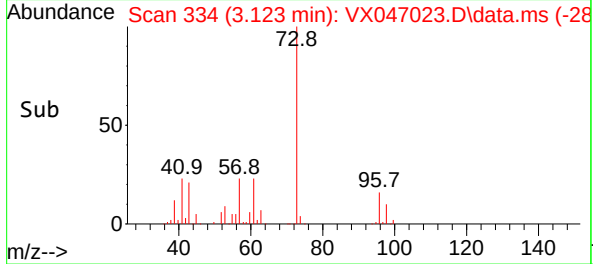
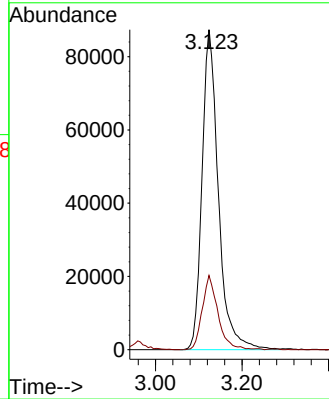
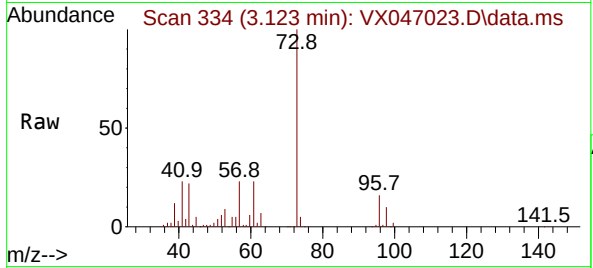
#19
Methyl tert-butyl Ether
Concen: 23.999 ug/l
RT: 3.123 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01

Tgt Ion: 73 Resp: 228520
Ion Ratio Lower Upper
73 100
57 23.2 18.6 28.0

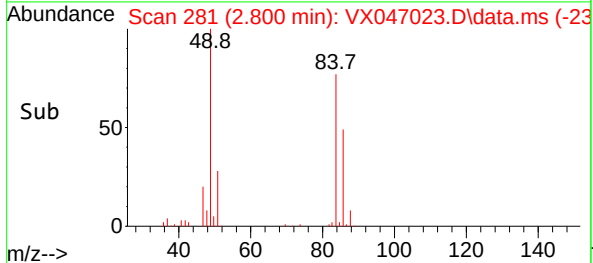
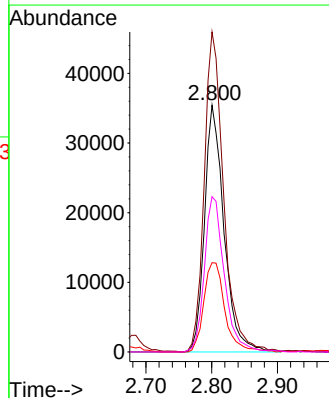
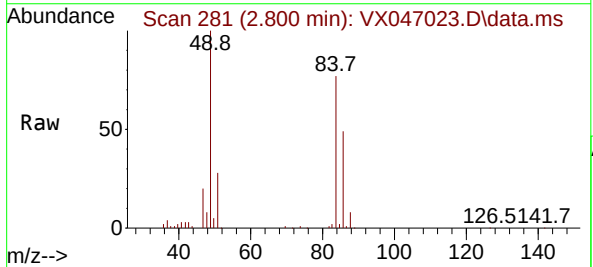
Manual Integrations
APPROVED

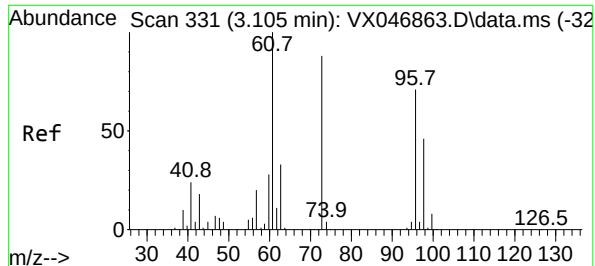
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#20
Methylene Chloride
Concen: 19.362 ug/l
RT: 2.800 min Scan# 281
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

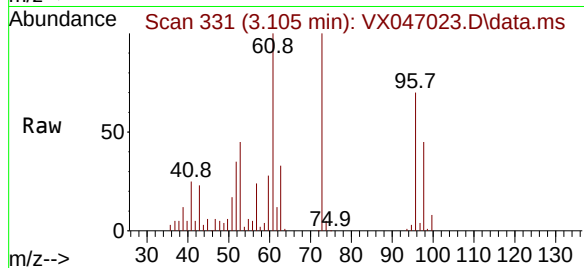
Tgt Ion: 84 Resp: 73061
Ion Ratio Lower Upper
84 100
49 129.7 102.8 154.2
51 36.2 31.1 46.7
86 63.8 50.6 75.8





#21
trans-1,2-Dichloroethene
Concen: 18.473 ug/l
RT: 3.105 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

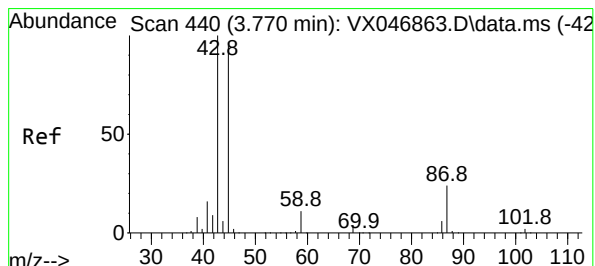
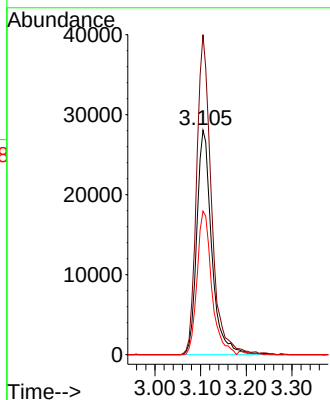
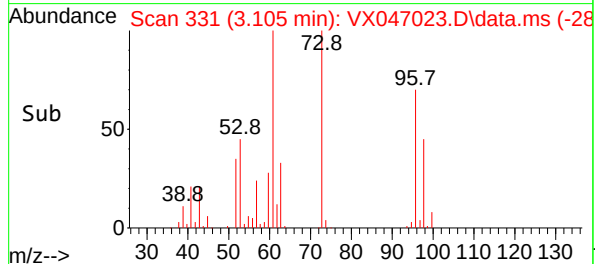
Instrument :
MSVOA_X
Client Sample Id :
VX0716WBSD01



Tgt Ion: 96 Resp: 63740
Ion Ratio Lower Upper
96 100
61 142.5 113.4 170.2
98 65.5 51.8 77.6

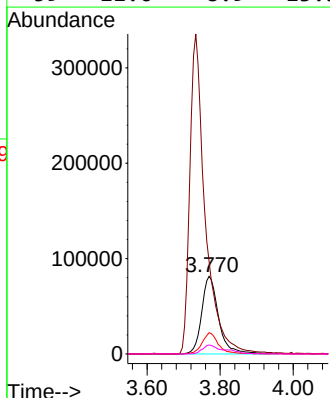
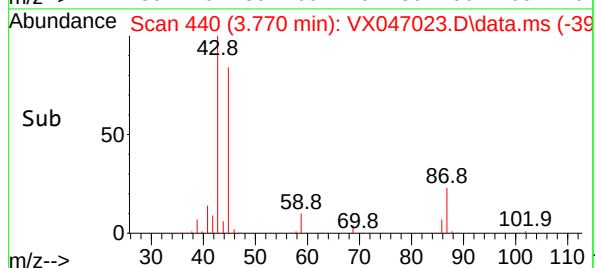
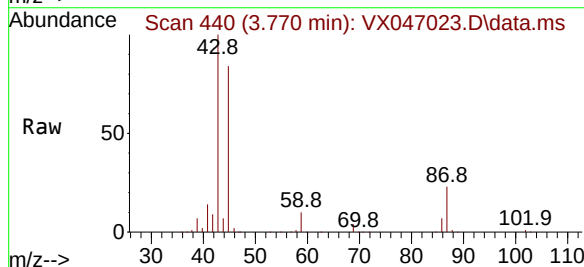
Manual Integrations
APPROVED

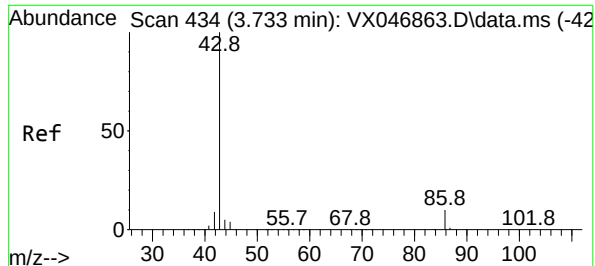
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#22
Diisopropyl ether
Concen: 22.524 ug/l
RT: 3.770 min Scan# 440
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Tgt Ion: 45 Resp: 261236
Ion Ratio Lower Upper
45 100
43 119.2 84.2 126.4
87 27.5 20.3 30.5
59 11.6 8.9 13.3





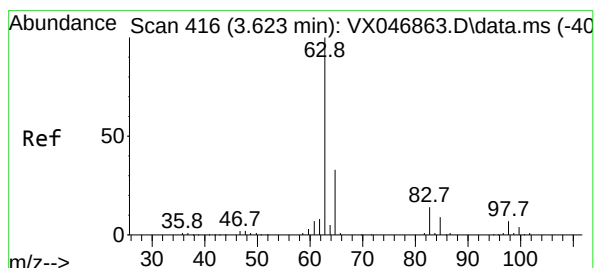
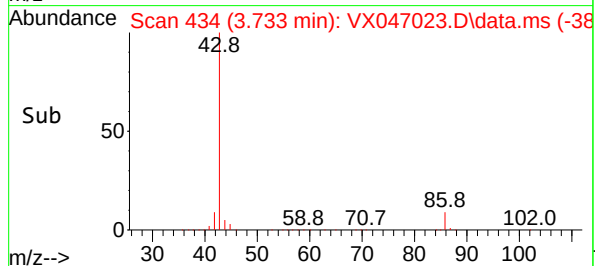
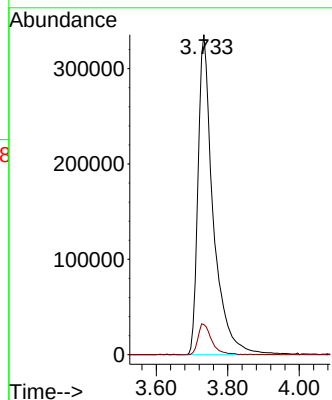
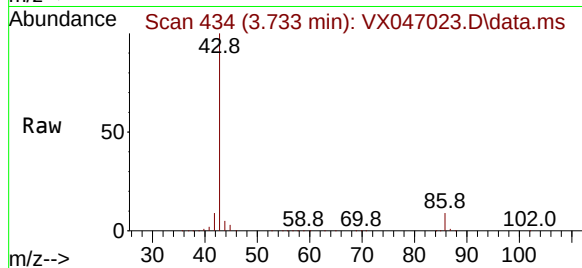
#23
Vinyl Acetate
Concen: 113.574 ug/l
RT: 3.733 min Scan# 41
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01

Tgt Ion: 43 Resp: 986860
Ion Ratio Lower Upper
43 100
86 9.4 8.2 12.4

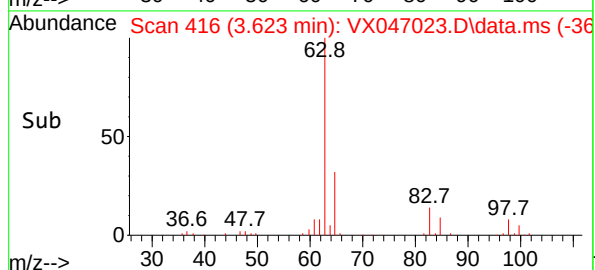
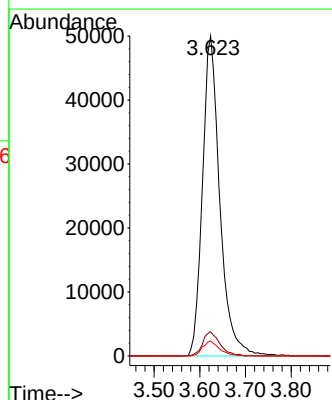
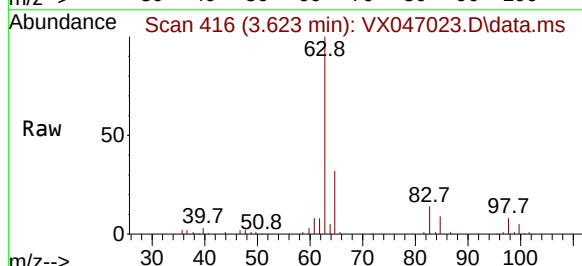
Manual Integrations
APPROVED

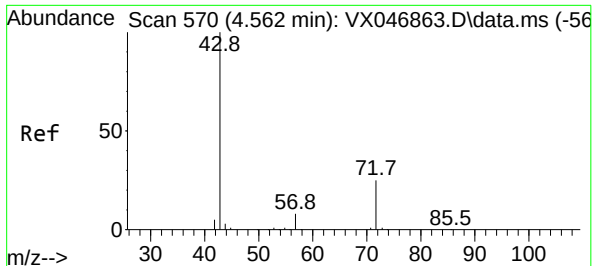
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#24
1,1-Dichloroethane
Concen: 19.894 ug/l
RT: 3.623 min Scan# 416
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Tgt Ion: 63 Resp: 131590
Ion Ratio Lower Upper
63 100
98 7.6 3.6 10.9
100 4.8 2.3 6.9





#25

2-Butanone

Concen: 145.931 ug/l

RT: 4.562 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion: 43 Resp: 248450

Ion Ratio Lower Upper

43

100

72

24.1

20.0

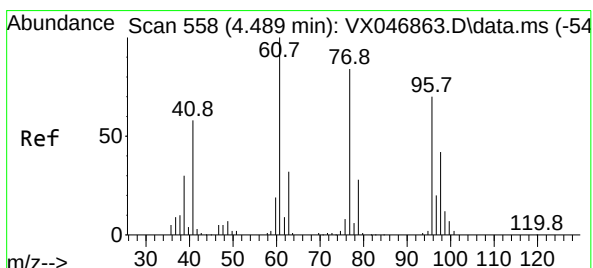
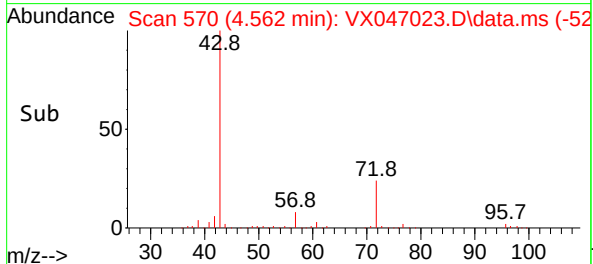
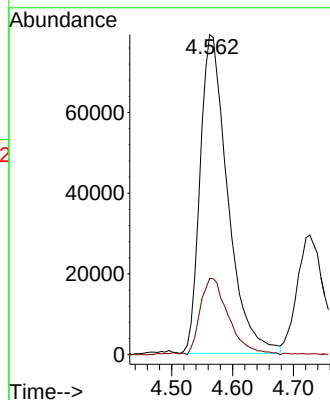
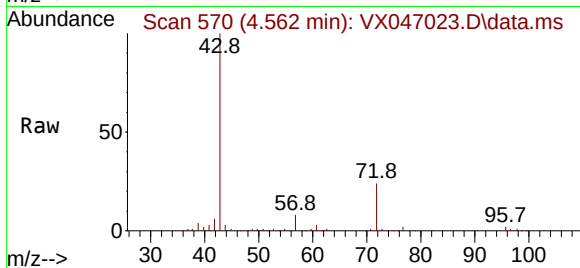
30.0

Manual Integrations

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Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#26

2,2-Dichloropropane

Concen: 19.417 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.006 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Tgt Ion: 77 Resp: 95586

Ion Ratio Lower Upper

77

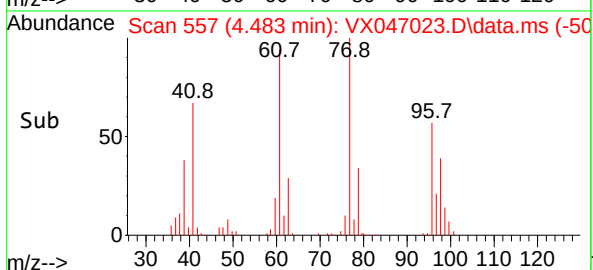
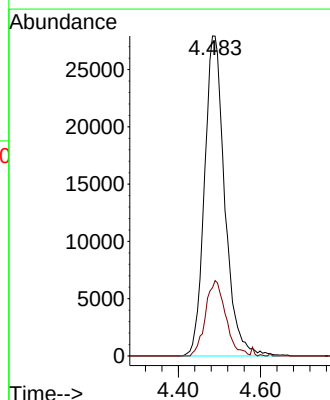
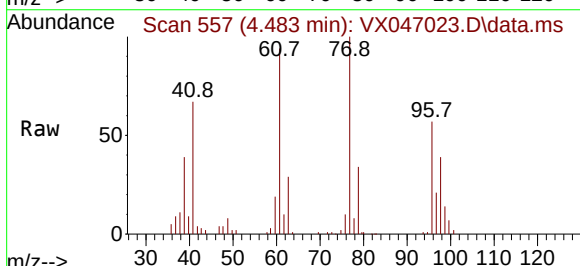
100

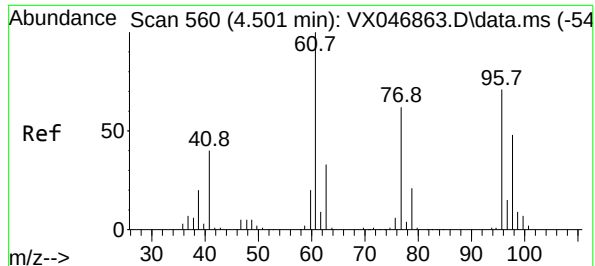
97

23.5

11.5

34.5





#27

cis-1,2-Dichloroethene

Concen: 19.635 ug/l

RT: 4.501 min Scan# 560

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion: 96 Resp: 8271

Ion Ratio Lower Upper

96 100

61 148.2 0.0 288.6

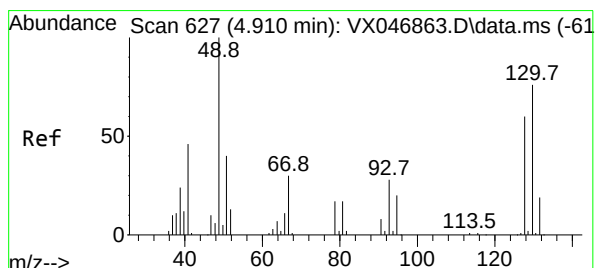
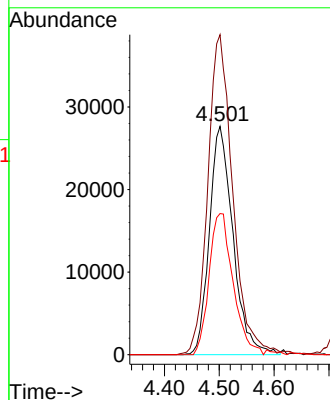
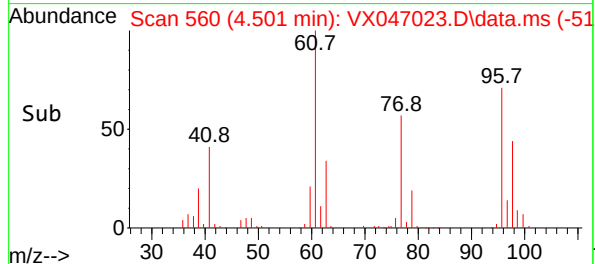
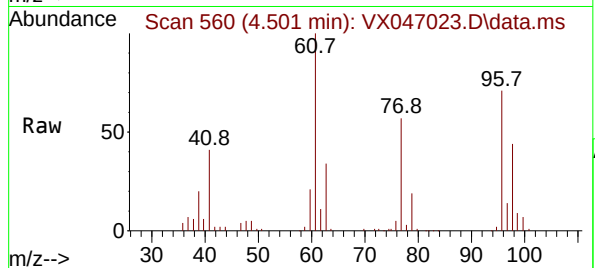
98 62.6 0.0 128.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#28

Bromochloromethane

Concen: 18.690 ug/l

RT: 4.910 min Scan# 627

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

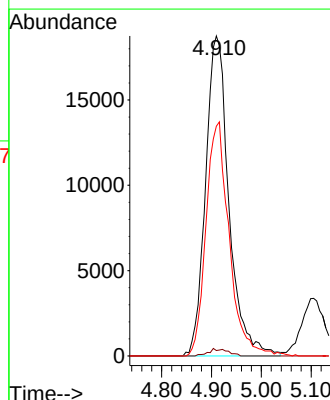
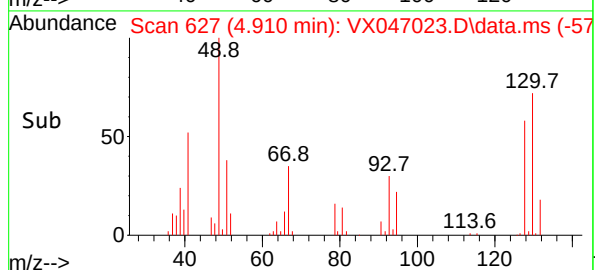
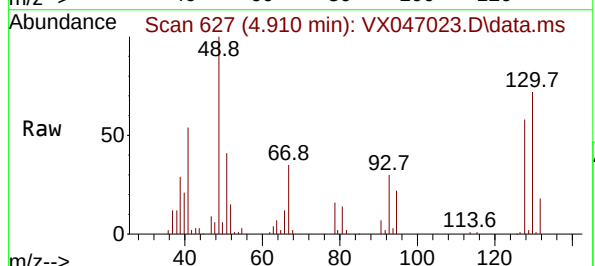
Tgt Ion: 49 Resp: 61014

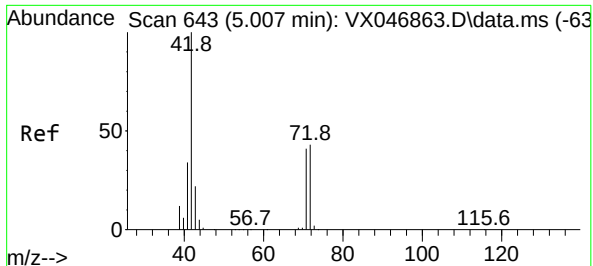
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.2

130 72.8 61.7 92.5





#29

Tetrahydrofuran

Concen: 147.857 ug/l

RT: 5.013 min Scan# 643

Delta R.T. 0.006 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion: 42 Resp: 16046

Ion Ratio Lower Upper

42 100

72 43.0 35.1 52.7

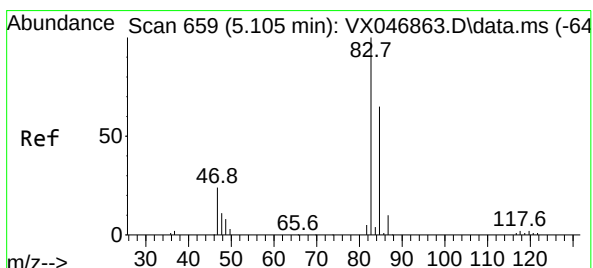
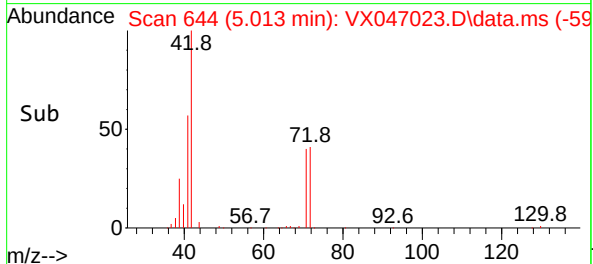
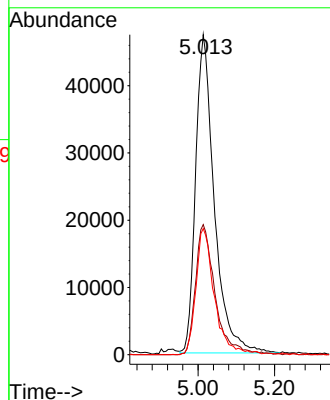
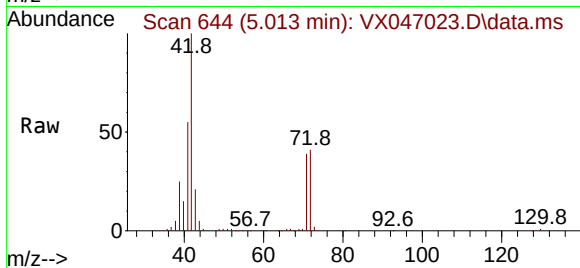
71 38.9 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#30

Chloroform

Concen: 20.683 ug/l

RT: 5.105 min Scan# 659

Delta R.T. 0.000 min

Lab File: VX047023.D

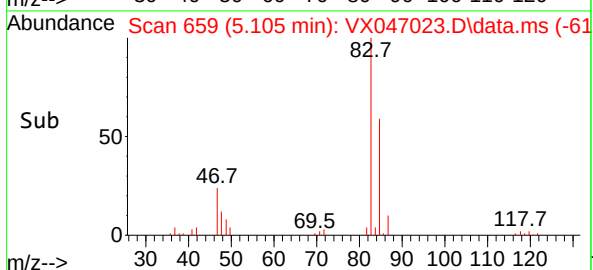
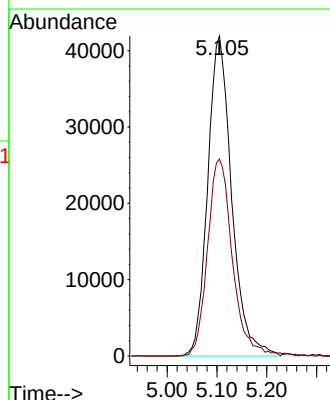
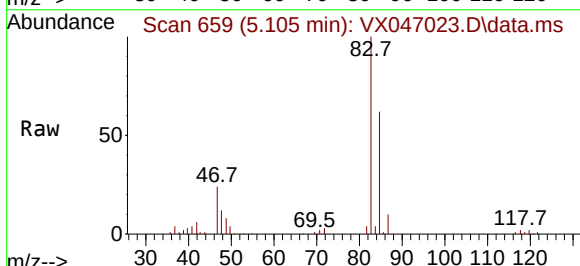
Acq: 16 Jul 2025 12:38

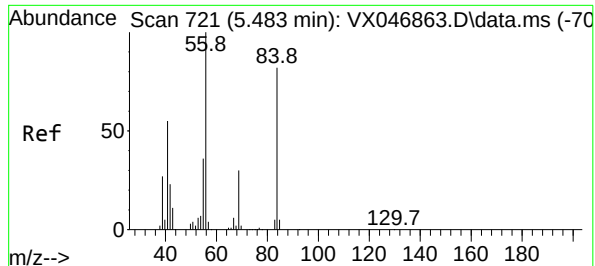
Tgt Ion: 83 Resp: 139773

Ion Ratio Lower Upper

83 100

85 62.6 51.8 77.8





#31

Cyclohexane

Concen: 18.414 ug/l

RT: 5.477 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion: 56 Resp: 108129

Ion Ratio Lower Upper

56 100

69 28.5 24.0 36.0

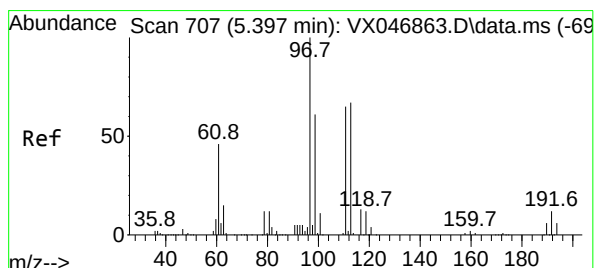
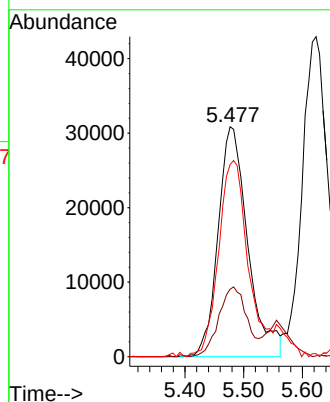
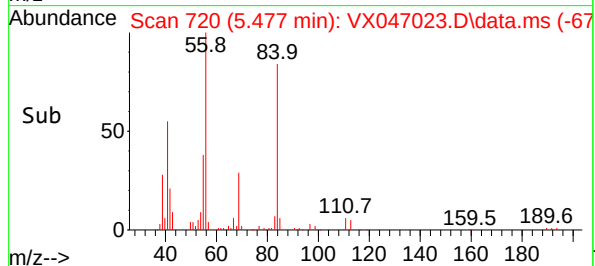
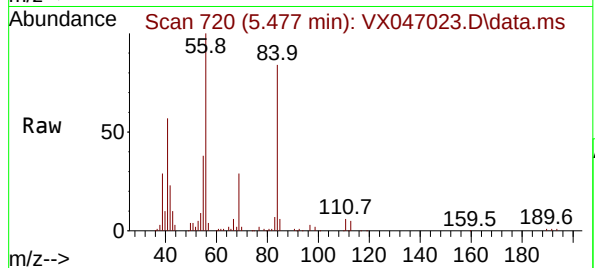
84 81.5 66.5 99.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#32

1,1,1-Trichloroethane

Concen: 20.293 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

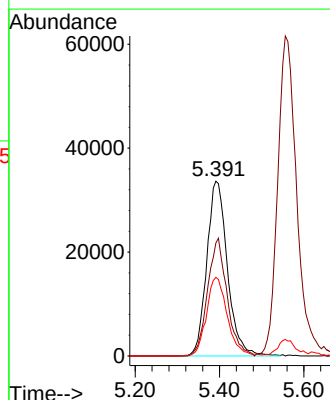
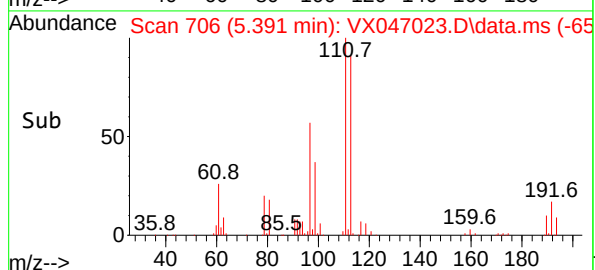
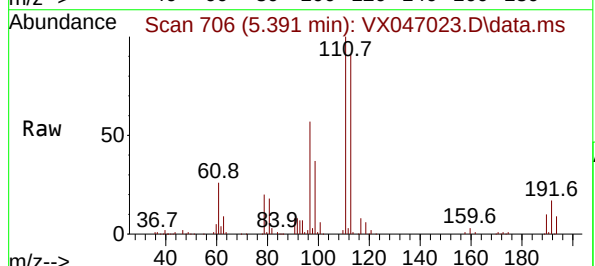
Tgt Ion: 97 Resp: 114572

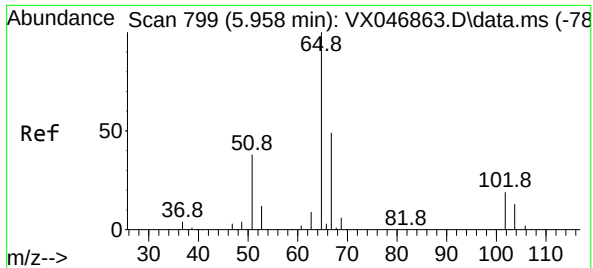
Ion Ratio Lower Upper

97 100

99 63.5 50.6 76.0

61 45.4 36.3 54.5





#33

1,2-Dichloroethane-d4

Concen: 55.400 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion: 65 Resp: 227592

Ion Ratio Lower Upper

65 100

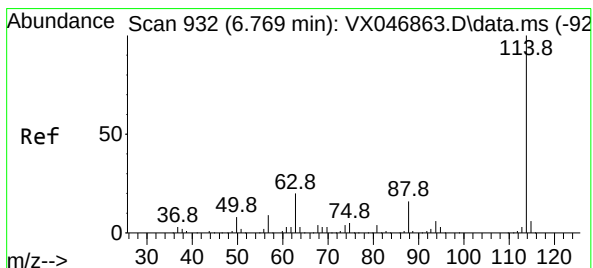
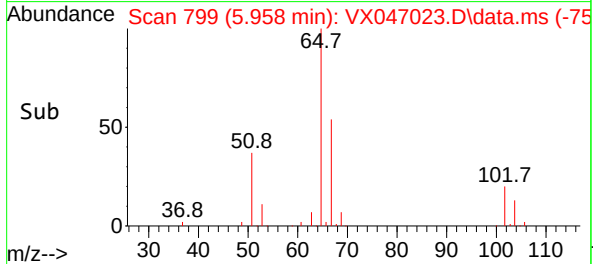
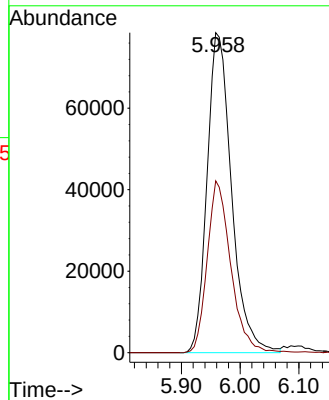
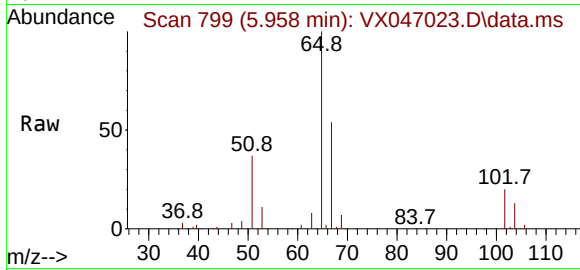
67 51.8 0.0 105.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

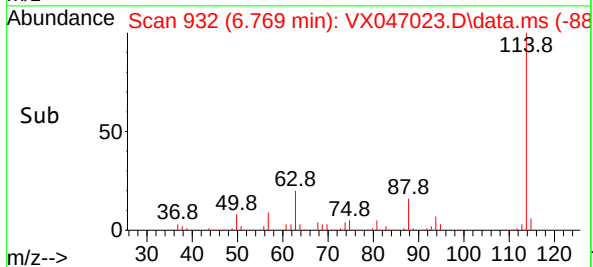
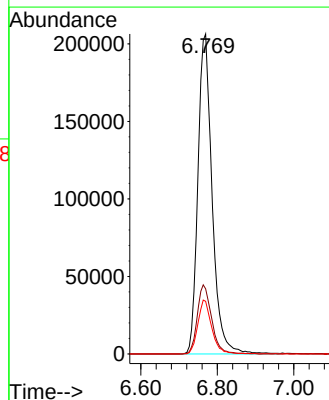
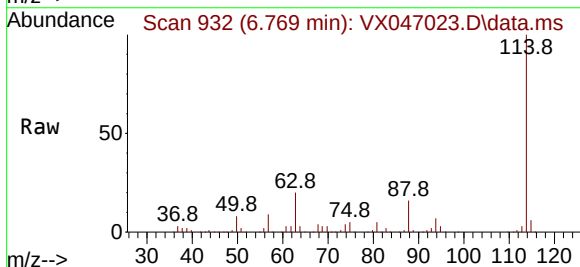
Tgt Ion:114 Resp: 532754

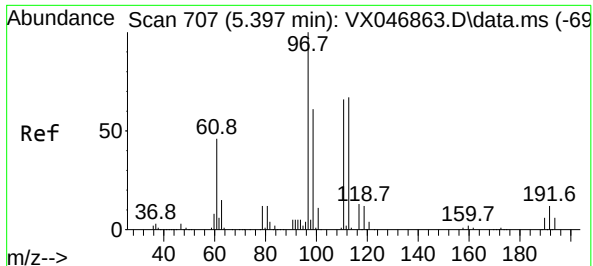
Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.4

88 16.4 0.0 31.0





#35

Dibromofluoromethane

Concen: 50.170 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion:113 Resp: 18143

Ion Ratio Lower Upper

113 100

111 103.3 81.2 121.8

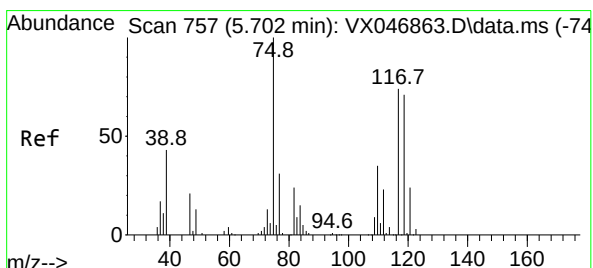
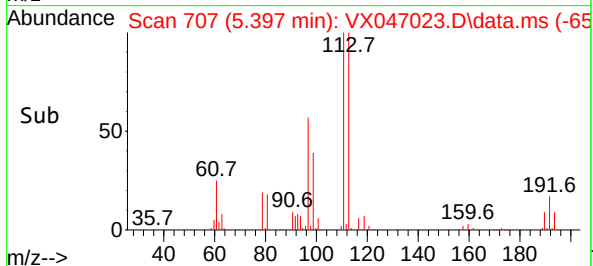
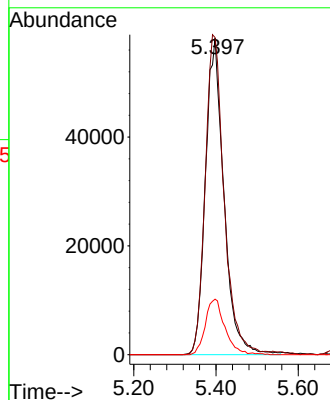
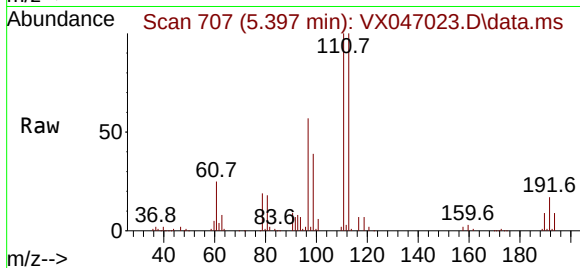
192 18.7 15.3 22.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#36

1,1-Dichloropropene

Concen: 17.995 ug/l

RT: 5.702 min Scan# 757

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

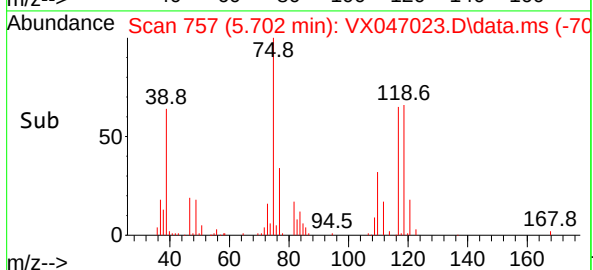
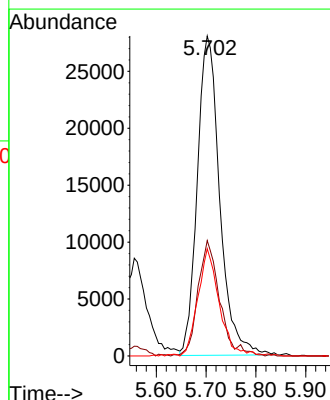
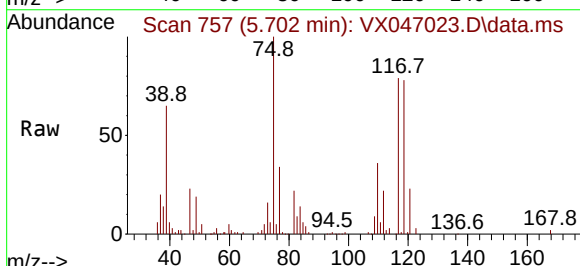
Tgt Ion: 75 Resp: 87804

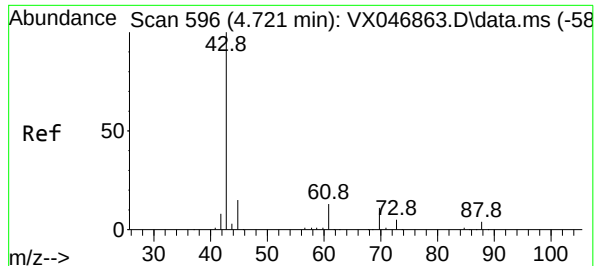
Ion Ratio Lower Upper

75 100

110 34.9 17.3 51.9

77 31.8 24.2 36.4





#37

Ethyl Acetate

Concen: 20.858 ug/l

RT: 4.727 min Scan# 597

Delta R.T. 0.006 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

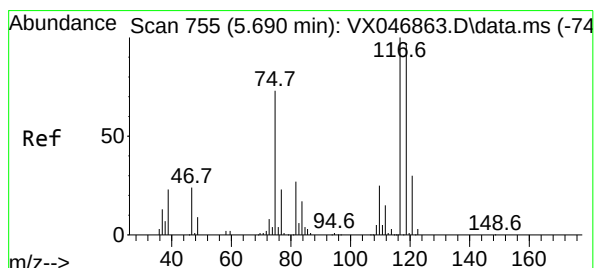
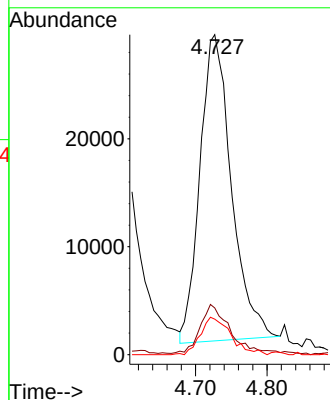
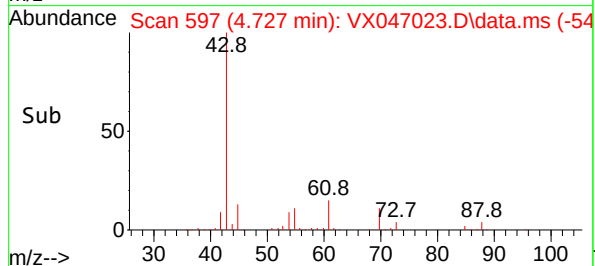
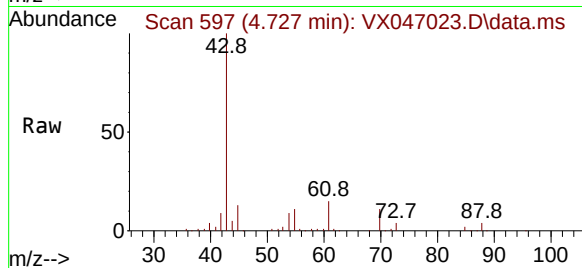
ClientSampleId :

VX0716WBSD01

Tgt Ion:	43	Resp:	86680
Ion	Ratio	Lower	Upper
43	100		
61	14.9	9.7	14.5
70	11.8	8.3	12.5

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#38

Carbon Tetrachloride

Concen: 18.299 ug/l

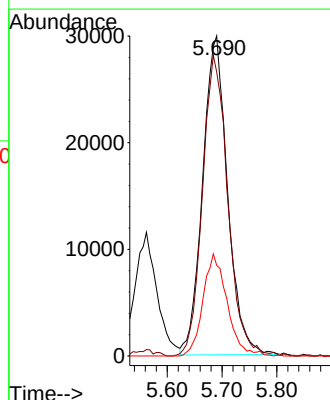
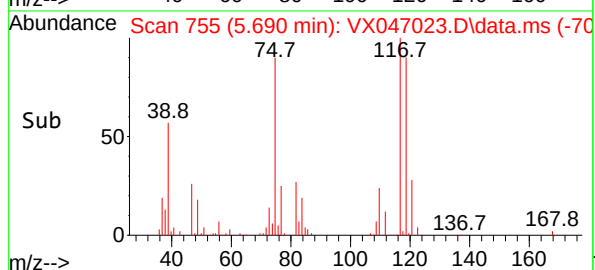
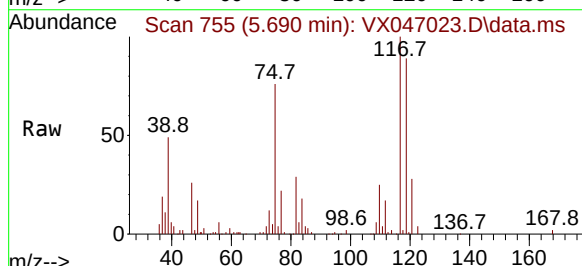
RT: 5.690 min Scan# 755

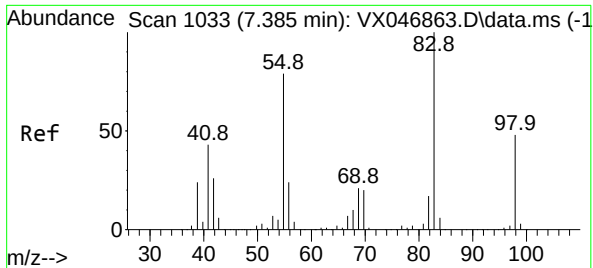
Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Tgt Ion:	117	Resp:	94394
Ion	Ratio	Lower	Upper
117	100		
119	89.0	76.6	114.8
121	28.5	24.1	36.1





#39

Methylcyclohexane

Concen: 17.303 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion: 83 Resp: 105608

Ion Ratio Lower Upper

83 100

55 75.8 63.0 94.4

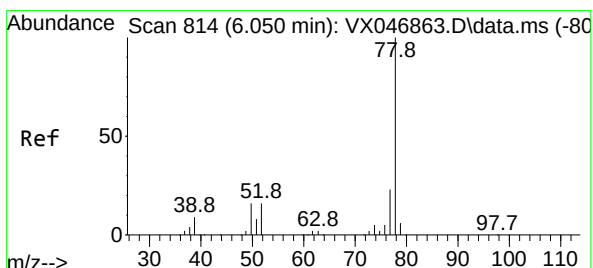
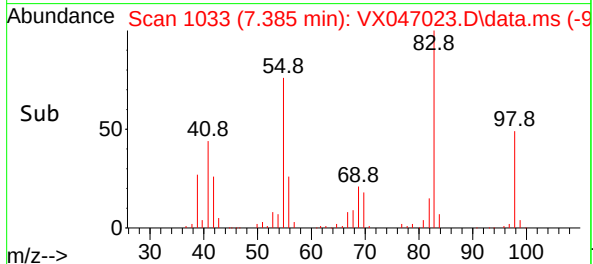
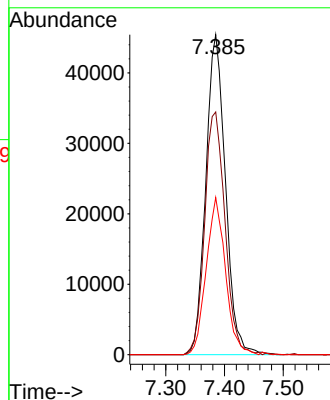
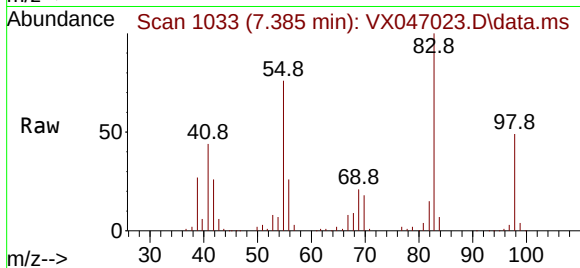
98 49.1 38.5 57.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#40

Benzene

Concen: 18.547 ug/l

RT: 6.050 min Scan# 814

Delta R.T. 0.000 min

Lab File: VX047023.D

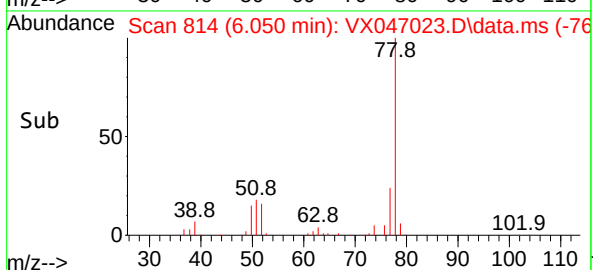
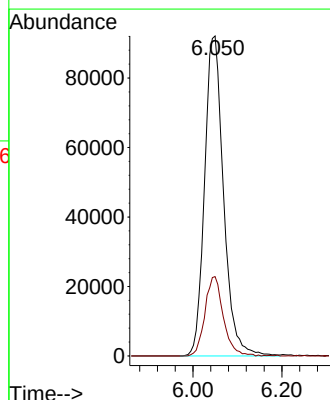
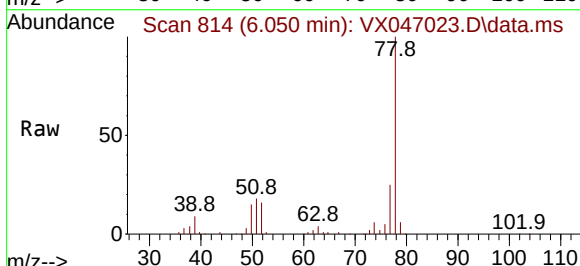
Acq: 16 Jul 2025 12:38

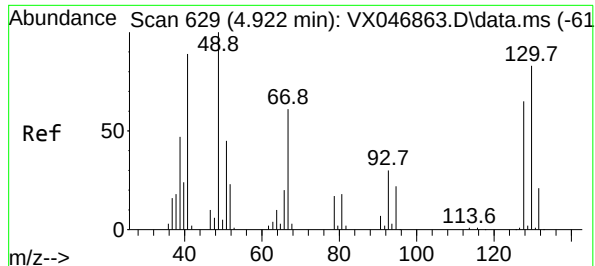
Tgt Ion: 78 Resp: 273717

Ion Ratio Lower Upper

78 100

77 24.8 18.7 28.1





#41

Methacrylonitrile

Concen: 25.705 ug/l

RT: 4.928 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion: 41 Resp: 56984

Ion Ratio Lower Upper

41 100

39 54.7 43.0 64.4

67 74.8 60.2 90.2

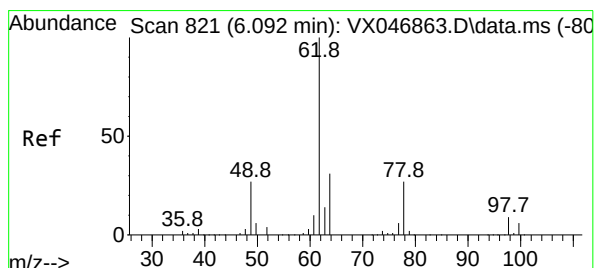
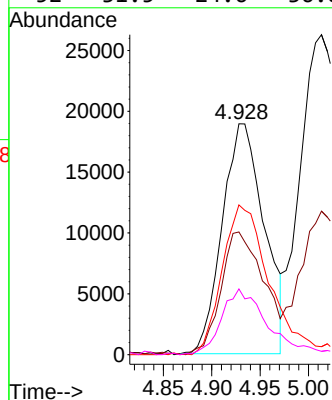
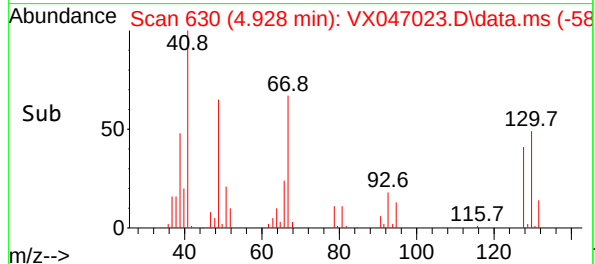
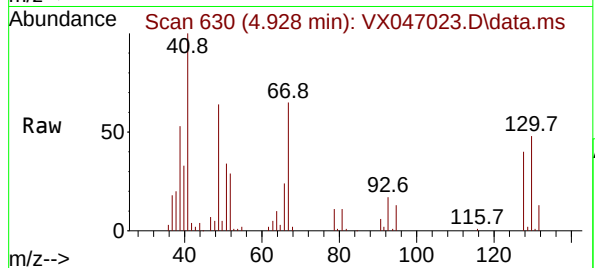
52 31.5 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#42

1,2-Dichloroethane

Concen: 20.839 ug/l

RT: 6.099 min Scan# 822

Delta R.T. 0.006 min

Lab File: VX047023.D

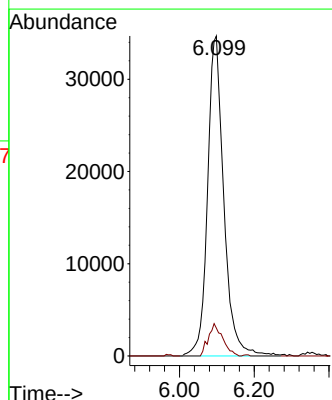
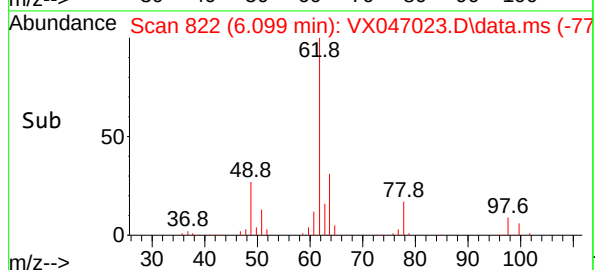
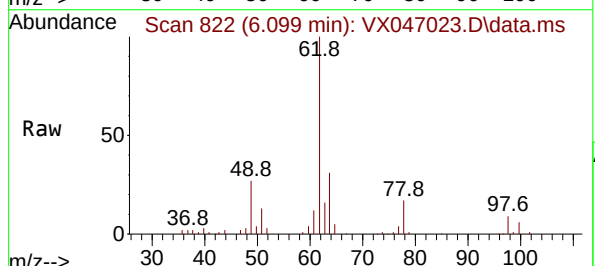
Acq: 16 Jul 2025 12:38

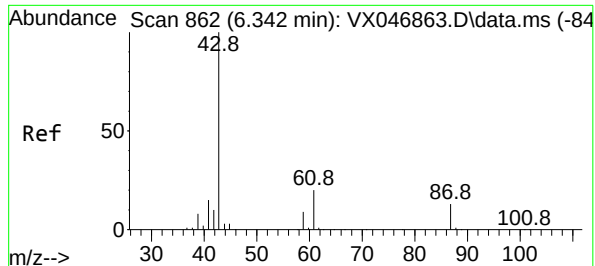
Tgt Ion: 62 Resp: 104433

Ion Ratio Lower Upper

62 100

98 8.9 0.0 19.4





#43

Isopropyl Acetate

Concen: 26.016 ug/l

RT: 6.349 min Scan# 863

Delta R.T. 0.006 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

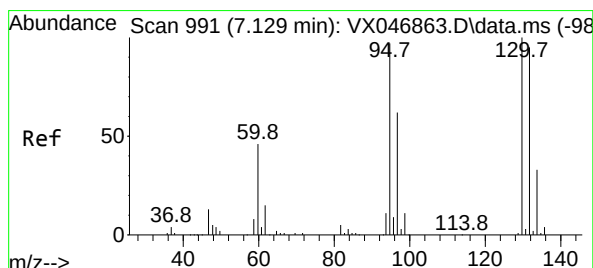
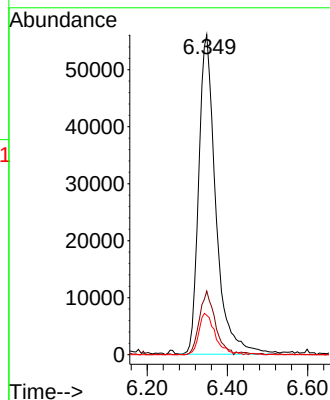
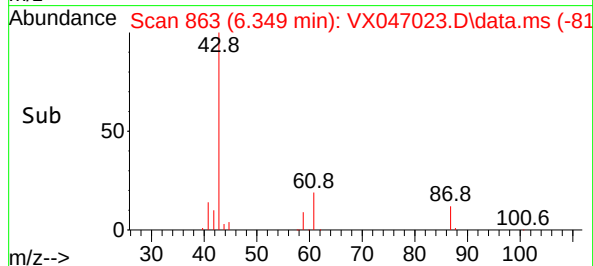
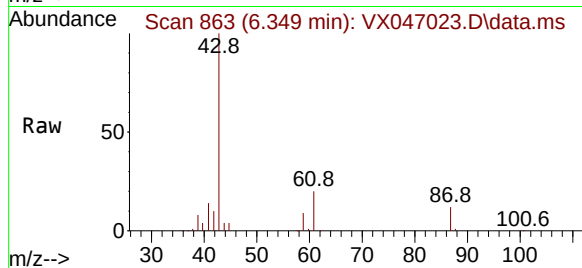
ClientSampleId :

VX0716WBSD01

Tgt Ion:	43	Resp:	16559
Ion	Ratio	Lower	Upper
43	100		
61	18.2	15.7	23.5
87	12.4	10.1	15.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#44

Trichloroethene

Concen: 17.508 ug/l

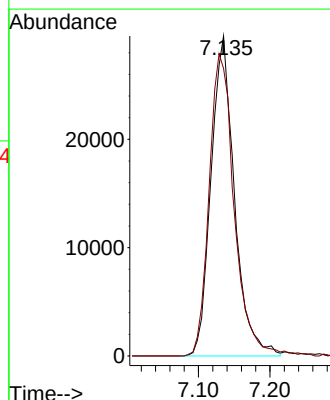
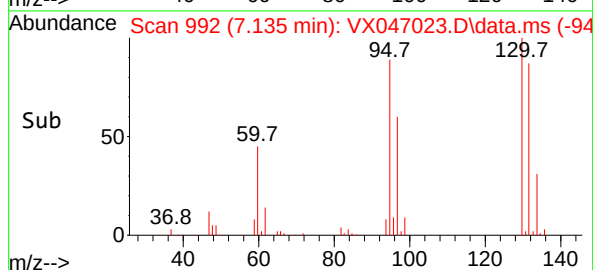
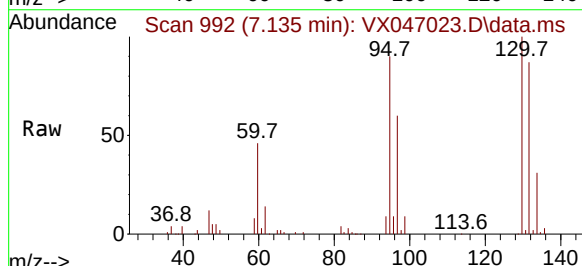
RT: 7.135 min Scan# 992

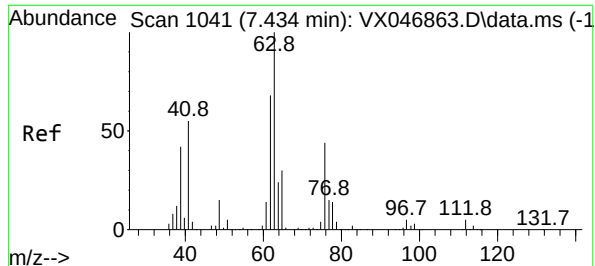
Delta R.T. 0.006 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Tgt Ion:	130	Resp:	67259
Ion	Ratio	Lower	Upper
130	100		
95	89.8	0.0	194.2





#45

1,2-Dichloropropane

Concen: 19.172 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion: 63 Resp: 71486

Ion Ratio Lower Upper

63 100

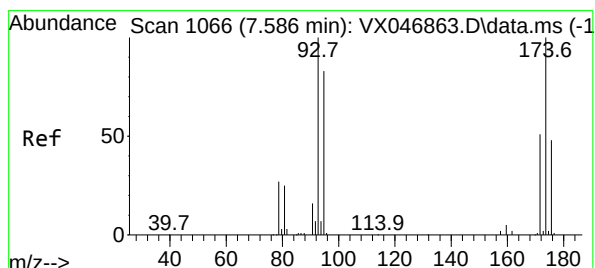
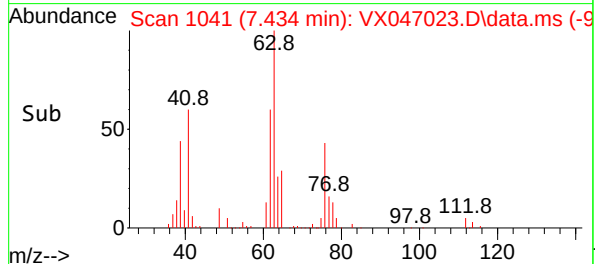
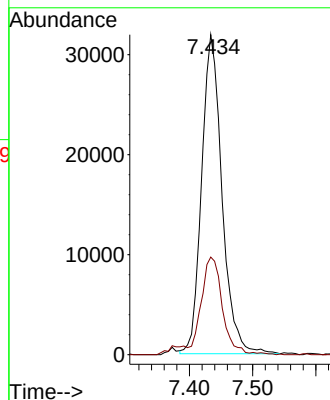
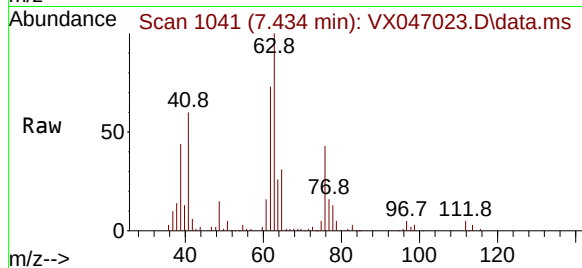
65 30.4 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#46

Dibromomethane

Concen: 19.955 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

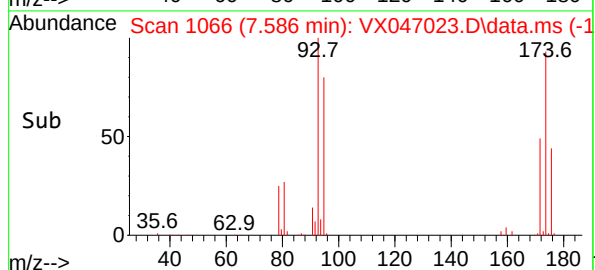
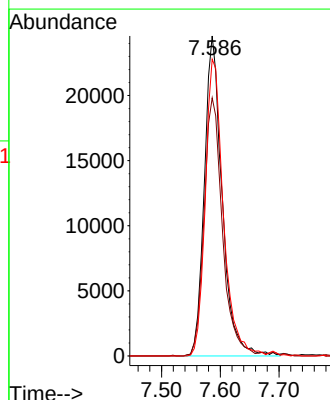
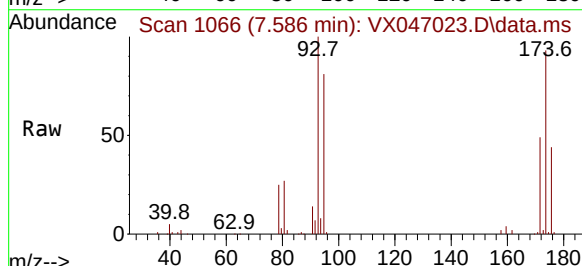
Tgt Ion: 93 Resp: 51551

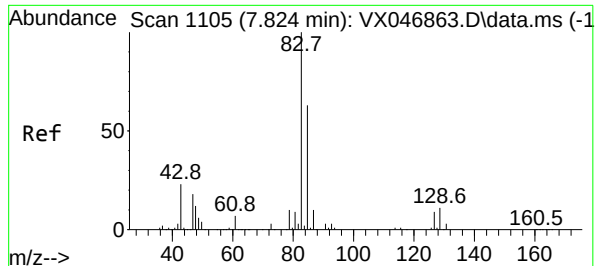
Ion Ratio Lower Upper

93 100

95 83.2 66.6 99.8

174 94.5 77.4 116.2





#47

Bromodichloromethane

Concen: 19.605 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

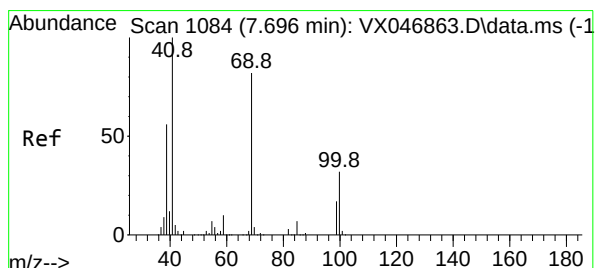
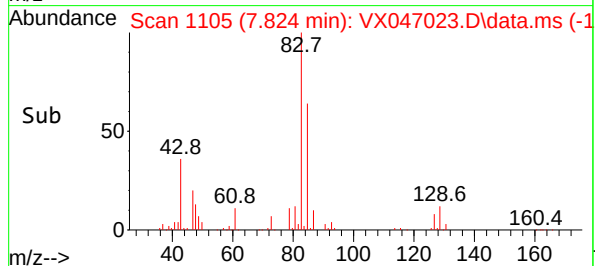
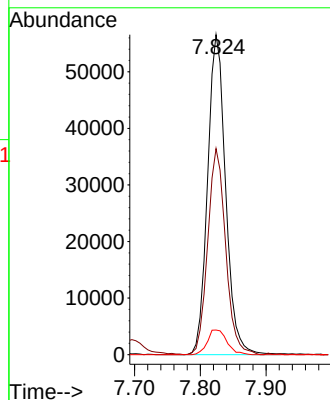
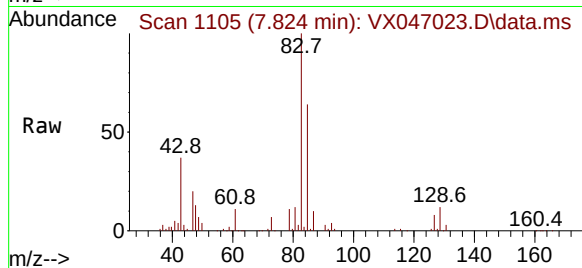
VX0716WBSD01

Tgt Ion:	83	Resp:	10814
Ion	Ratio	Lower	Upper
83	100		
85	62.8	50.2	75.4
127	7.5	7.1	10.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#48

Methyl methacrylate

Concen: 25.556 ug/l

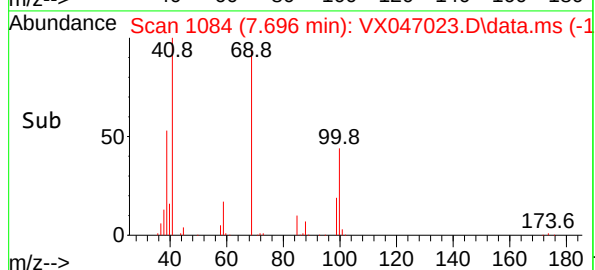
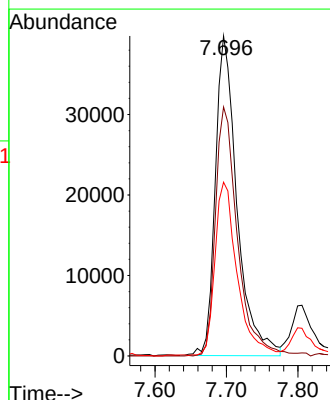
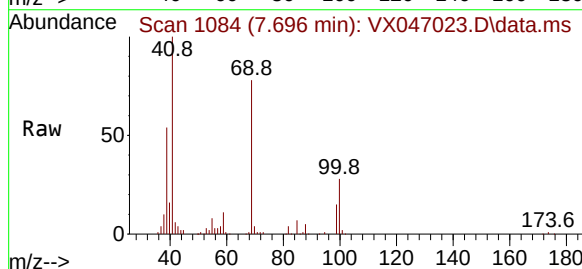
RT: 7.696 min Scan# 1084

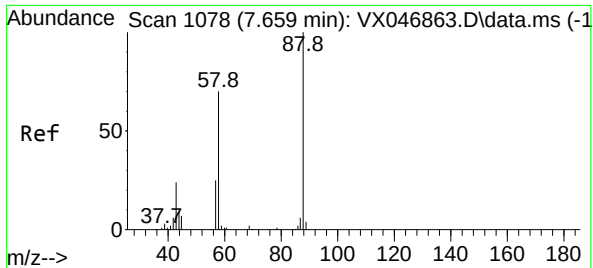
Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Tgt Ion:	41	Resp:	83994
Ion	Ratio	Lower	Upper
41	100		
69	78.7	65.8	98.8
39	55.1	43.8	65.6





#49

1,4-Dioxane

Concen: 615.261 ug/l

RT: 7.665 min Scan# 1079

Delta R.T. 0.006 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion: 88 Resp: 2343

Ion Ratio Lower Upper

88 100

43 38.8 31.7 47.5

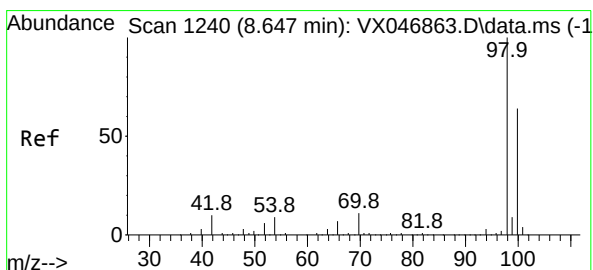
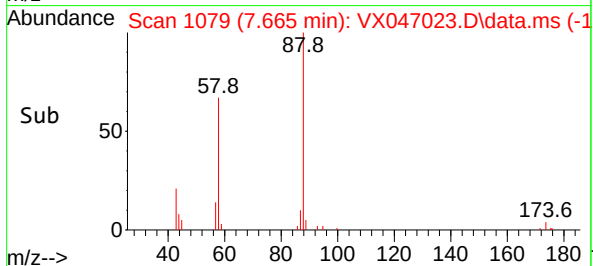
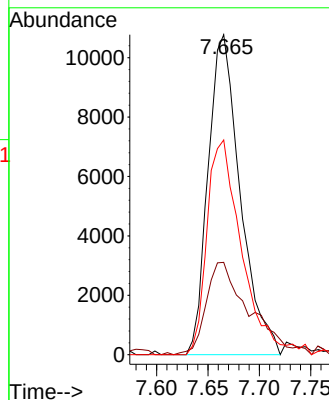
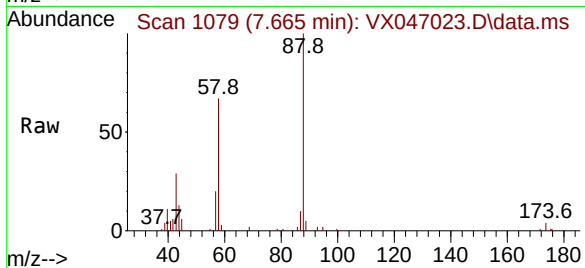
58 72.9 57.5 86.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#50

Toluene-d8

Concen: 48.033 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX047023.D

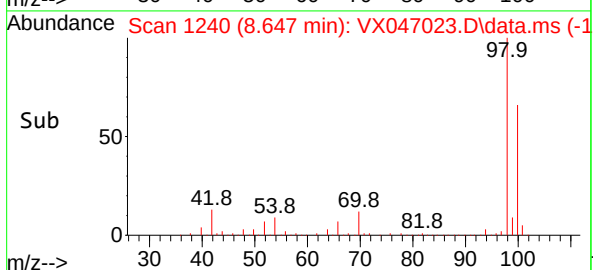
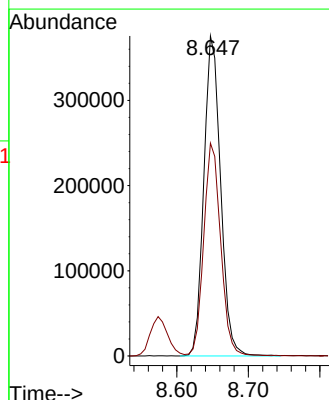
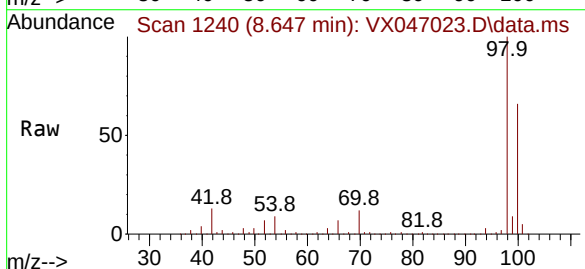
Acq: 16 Jul 2025 12:38

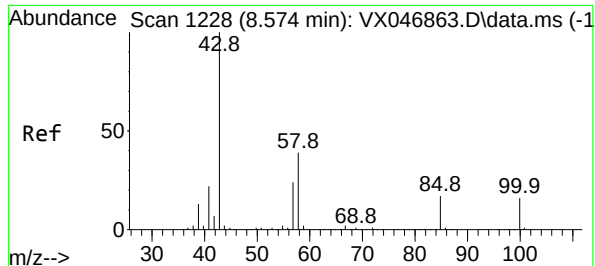
Tgt Ion: 98 Resp: 612865

Ion Ratio Lower Upper

98 100

100 66.8 53.0 79.6





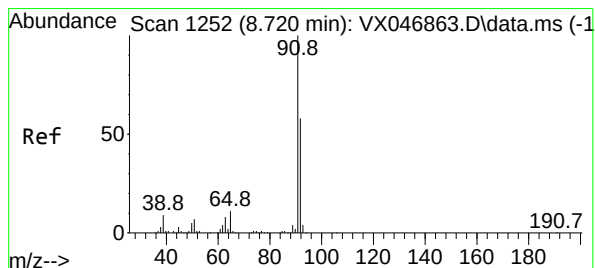
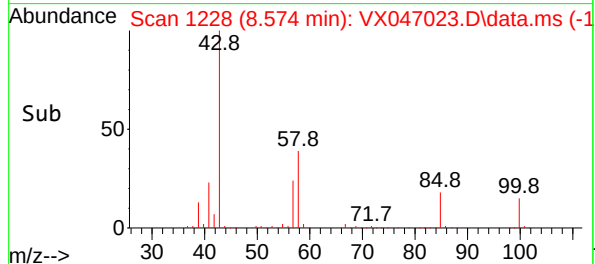
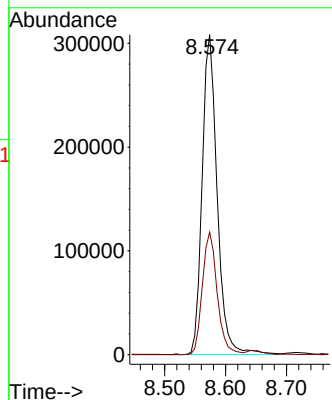
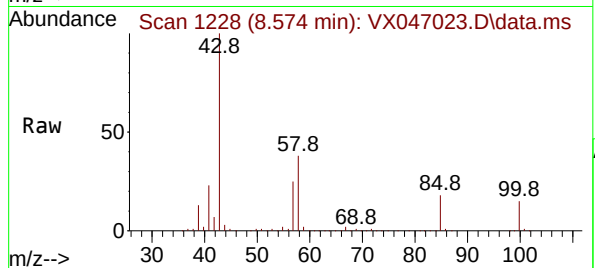
#51
4-Methyl-2-Pentanone
Concen: 140.501 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01

Tgt Ion: 43 Resp: 52781
Ion Ratio Lower Upper
43 100
58 38.0 30.4 45.6

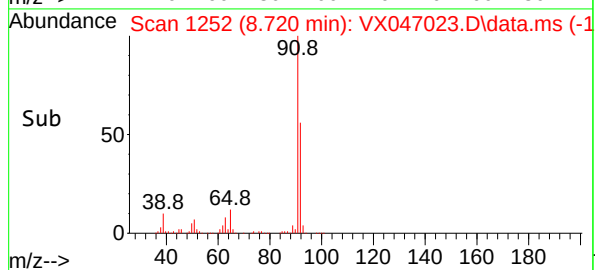
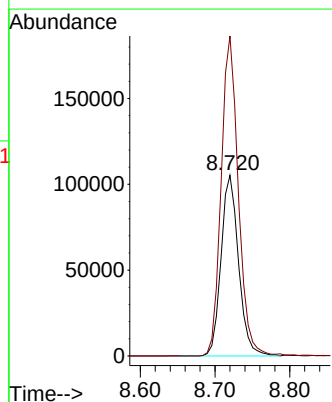
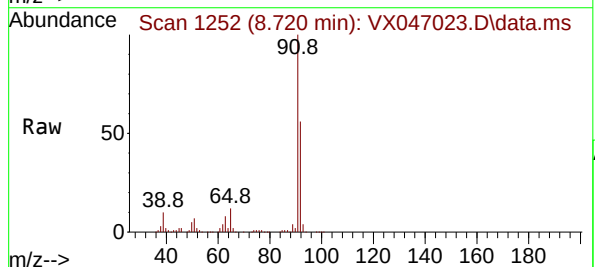
Manual Integrations
APPROVED

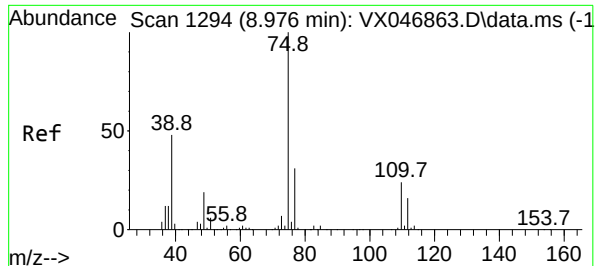
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#52
Toluene
Concen: 18.784 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Tgt Ion: 92 Resp: 171783
Ion Ratio Lower Upper
92 100
91 174.4 137.9 206.9





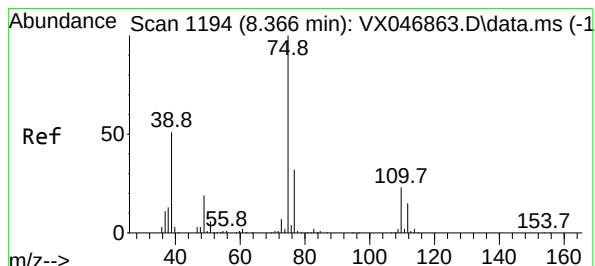
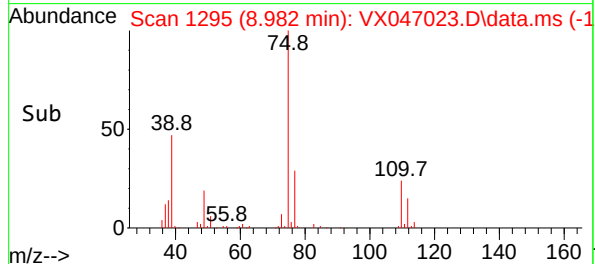
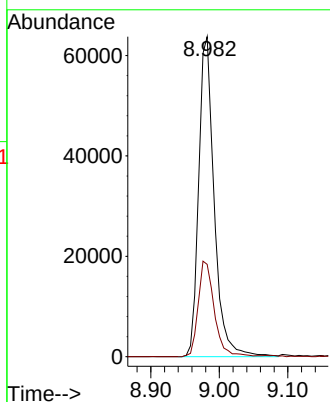
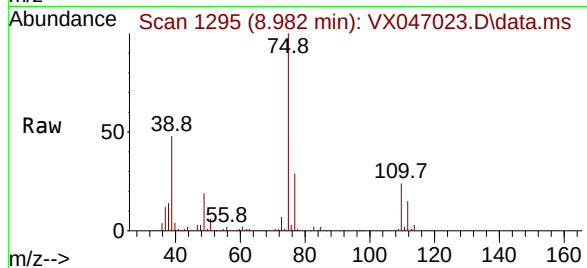
#53
t-1,3-Dichloropropene
Concen: 20.396 ug/l
RT: 8.982 min Scan# 1295
Delta R.T. 0.006 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01

Tgt Ion: 75 Resp: 10041
Ion Ratio Lower Upper
75 100
77 28.9 25.0 37.6

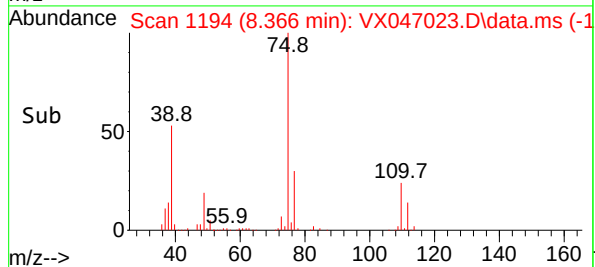
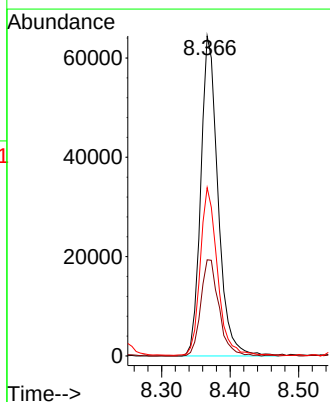
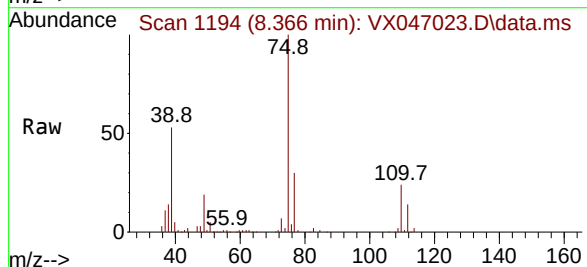
Manual Integrations
APPROVED

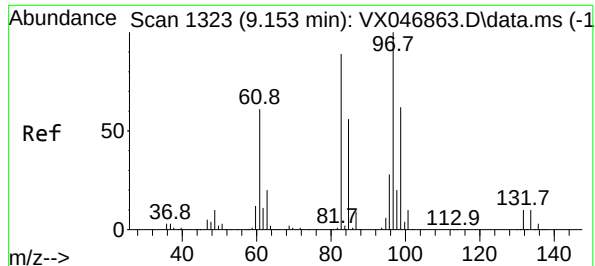
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#54
cis-1,3-Dichloropropene
Concen: 20.083 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Tgt Ion: 75 Resp: 112850
Ion Ratio Lower Upper
75 100
77 30.1 25.4 38.2
39 52.3 40.7 61.1





#55

1,1,2-Trichloroethane

Concen: 21.599 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion: 97 Resp: 73572

Ion Ratio Lower Upper

97 100

83 89.9 70.9 106.3

85 56.1 44.6 67.0

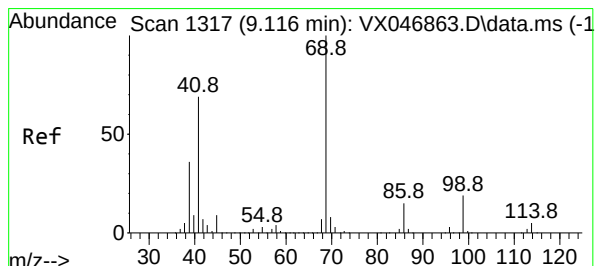
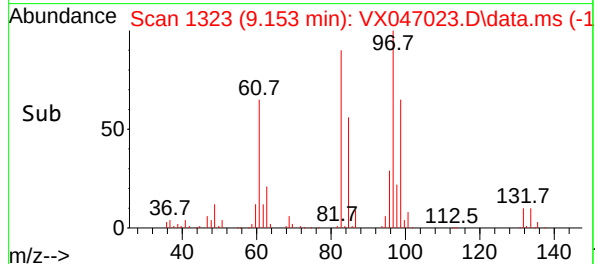
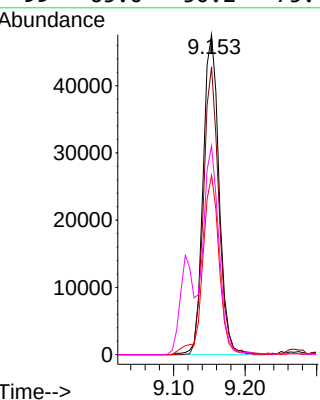
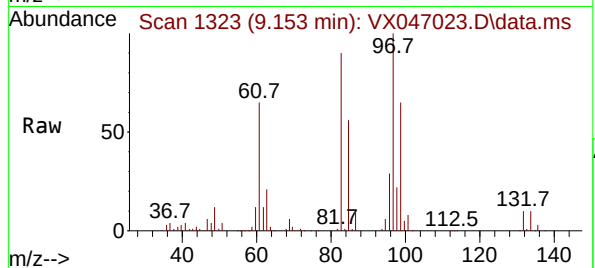
99 65.0 50.2 75.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#56

Ethyl methacrylate

Concen: 23.859 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

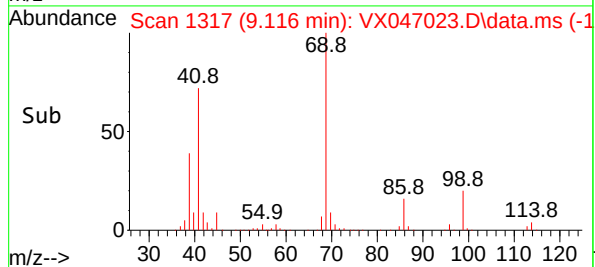
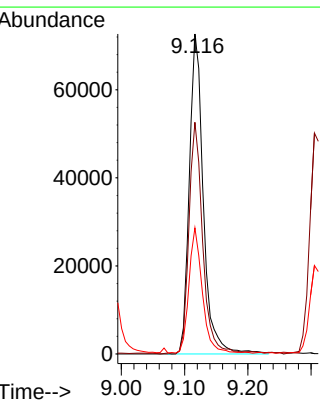
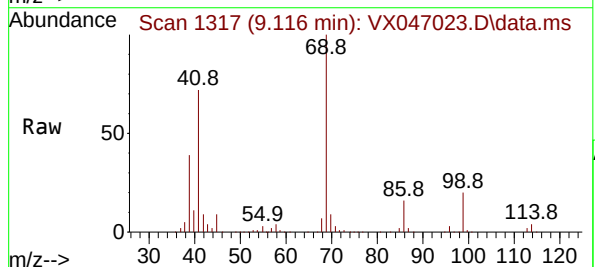
Tgt Ion: 69 Resp: 112484

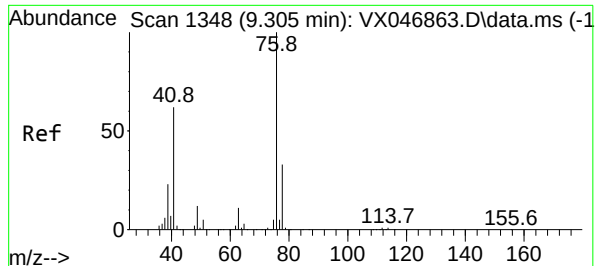
Ion Ratio Lower Upper

69 100

41 70.9 54.6 82.0

39 37.7 28.7 43.1





#57

1,3-Dichloropropane

Concen: 21.154 ug/l

RT: 9.305 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion: 76 Resp: 124079

Ion Ratio Lower Upper

76 100

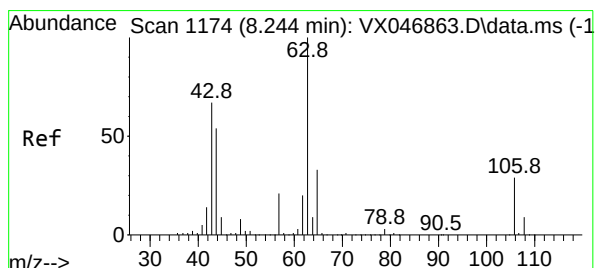
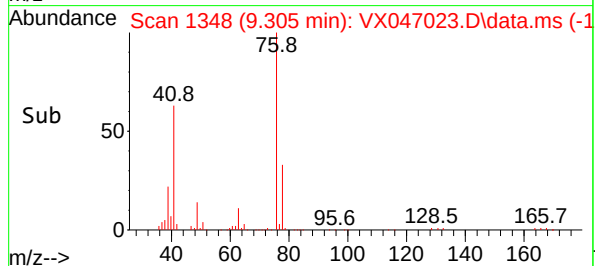
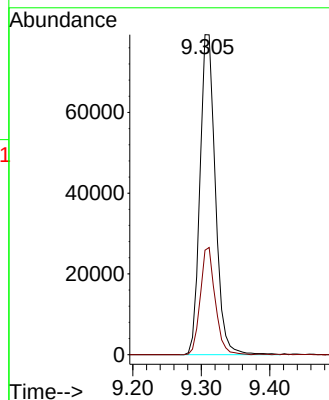
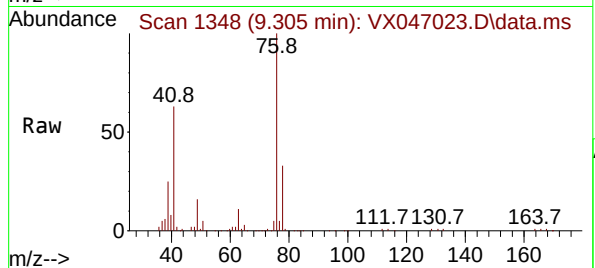
78 32.4 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#58

2-Chloroethyl Vinyl ether

Concen: 107.557 ug/l

RT: 8.245 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX047023.D

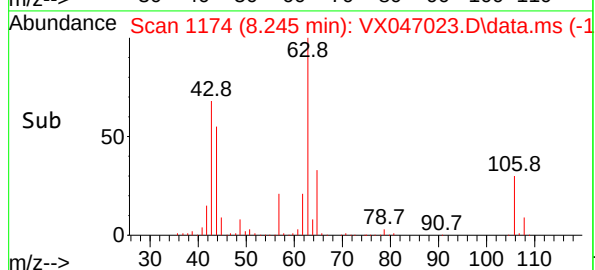
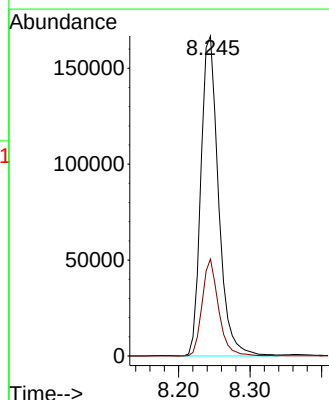
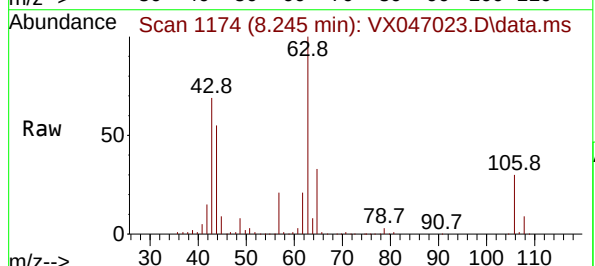
Acq: 16 Jul 2025 12:38

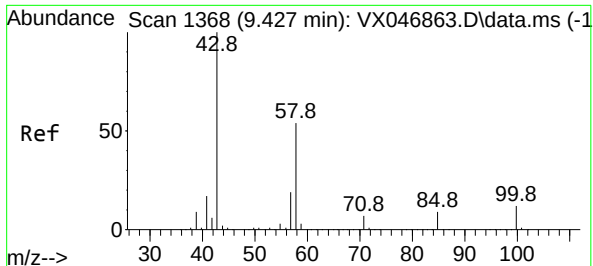
Tgt Ion: 63 Resp: 285718

Ion Ratio Lower Upper

63 100

106 28.1 22.6 33.8





#59

2-Hexanone

Concen: 148.127 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion: 43 Resp: 369099

Ion Ratio Lower Upper

43 100

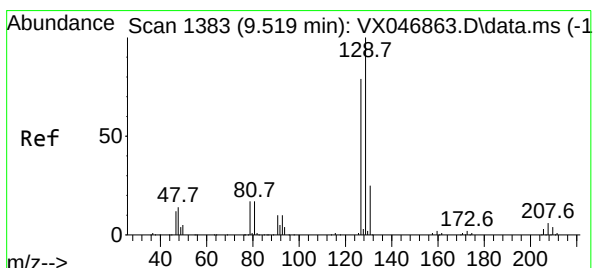
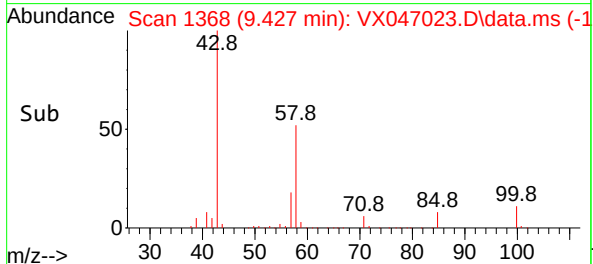
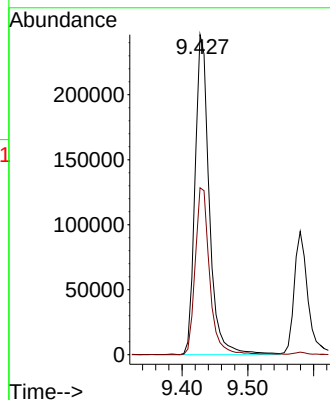
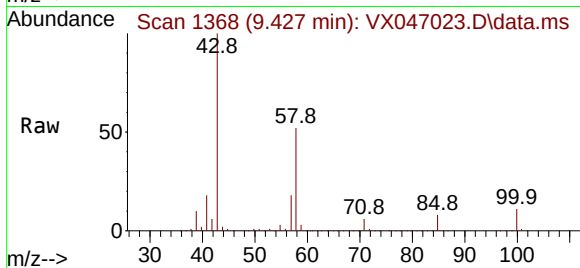
58 52.7 27.1 81.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#60

Dibromochloromethane

Concen: 19.850 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX047023.D

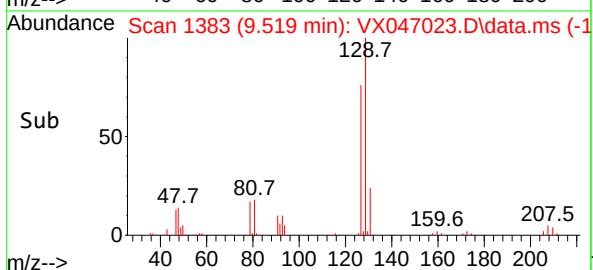
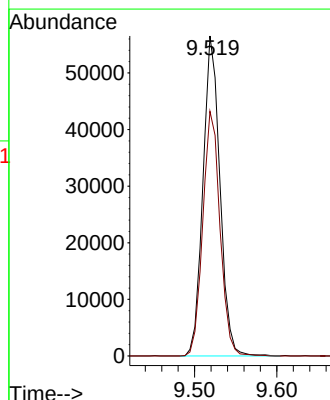
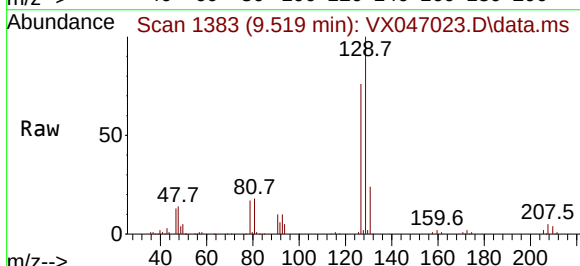
Acq: 16 Jul 2025 12:38

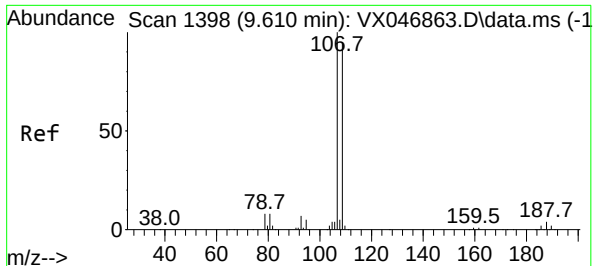
Tgt Ion:129 Resp: 80917

Ion Ratio Lower Upper

129 100

127 77.6 39.1 117.5





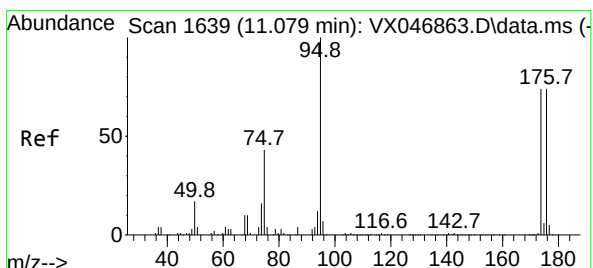
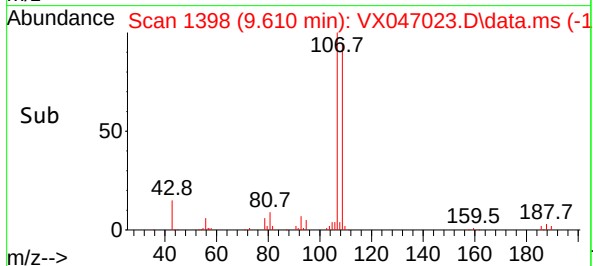
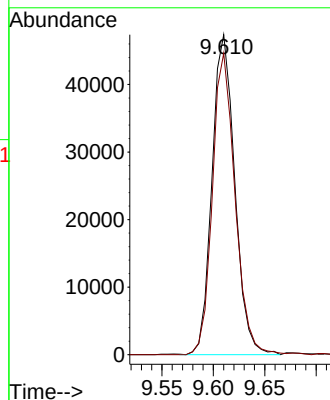
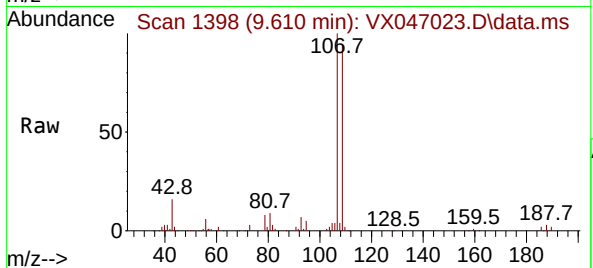
#61
1,2-Dibromoethane
Concen: 21.301 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01

Tgt Ion:107 Resp: 72872
Ion Ratio Lower Upper
107 100
109 93.9 75.4 113.2

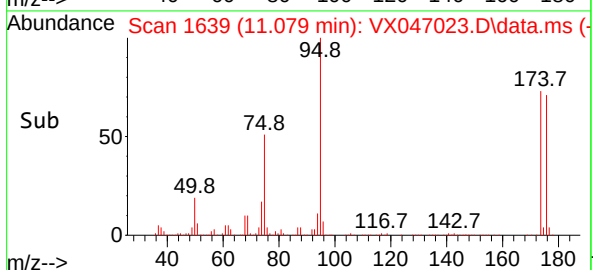
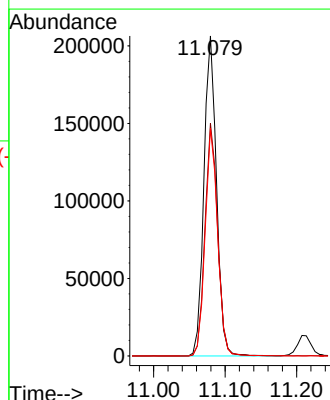
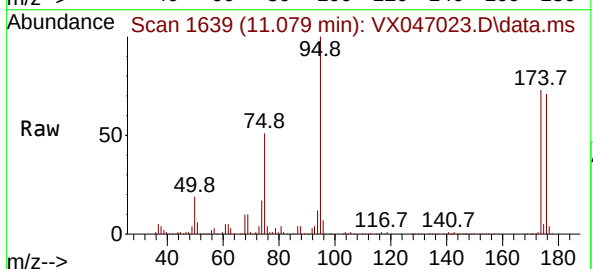
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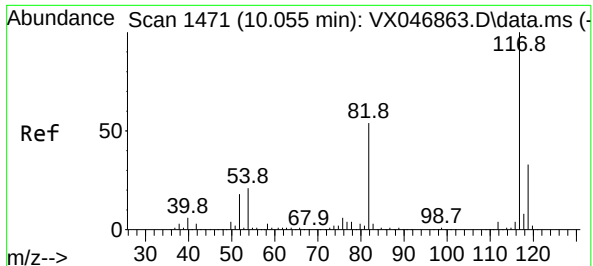
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#62
4-Bromofluorobenzene
Concen: 52.006 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

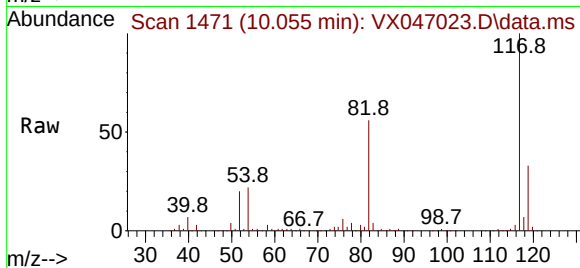
Tgt Ion: 95 Resp: 252192
Ion Ratio Lower Upper
95 100
174 73.1 0.0 152.0
176 70.7 0.0 145.2





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

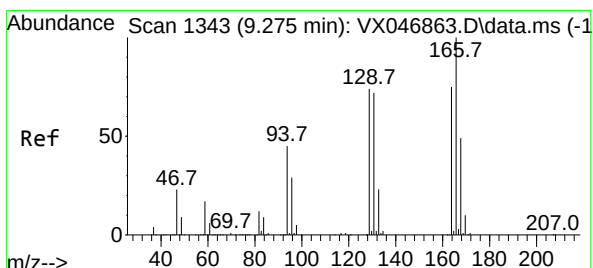
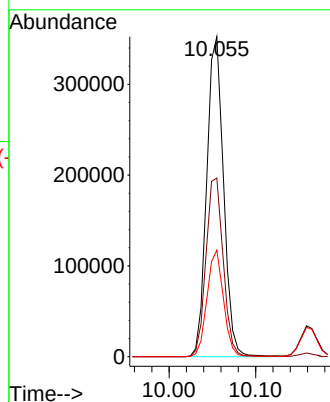
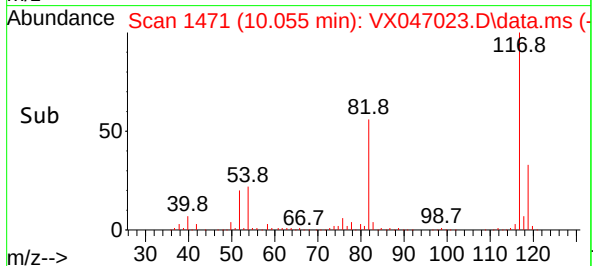
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01



Tgt Ion:117 Resp: 47557
Ion Ratio Lower Upper
117 100
82 55.8 43.3 64.9
119 33.3 26.4 39.6

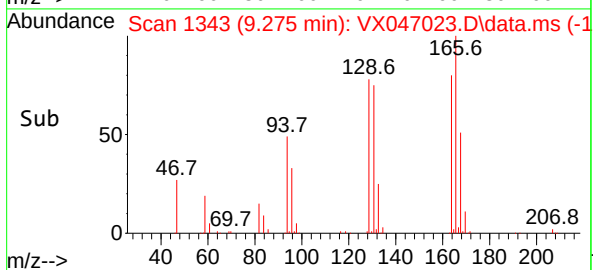
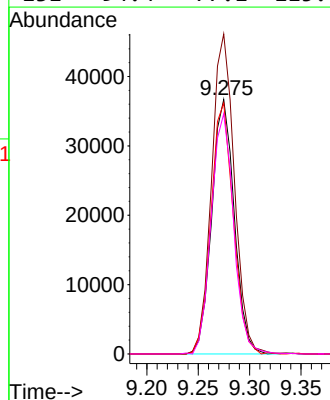
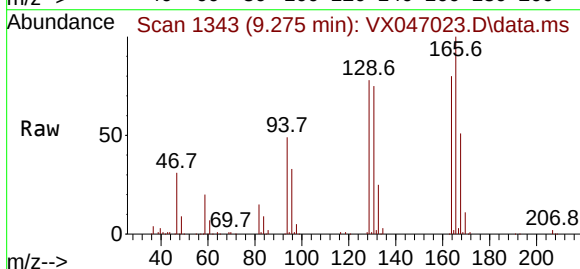
Manual Integrations
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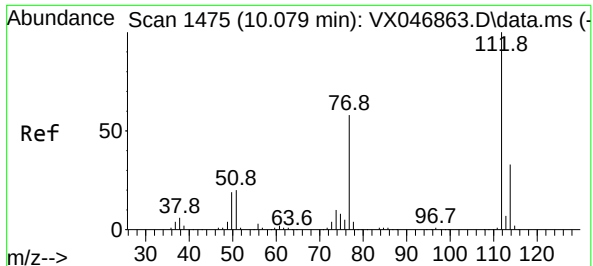
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#64
Tetrachloroethene
Concen: 17.594 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Tgt Ion:164 Resp: 55710
Ion Ratio Lower Upper
164 100
166 125.8 107.0 160.6
129 98.7 79.7 119.5
131 94.4 77.1 115.7





#65

Chlorobenzene

Concen: 19.345 ug/l

RT: 10.080 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion:112 Resp: 19891

Ion Ratio Lower Upper

112 100

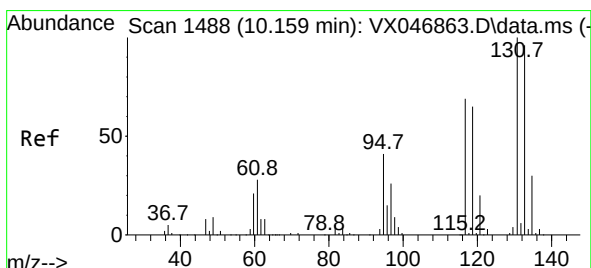
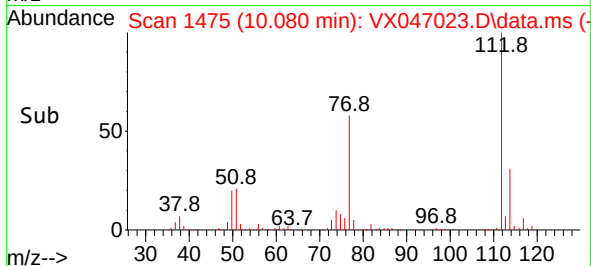
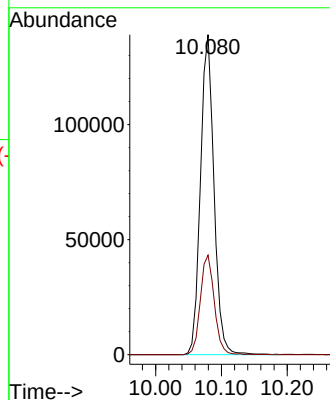
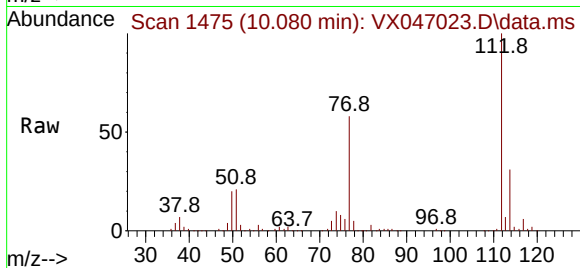
114 31.1 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 19.897 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

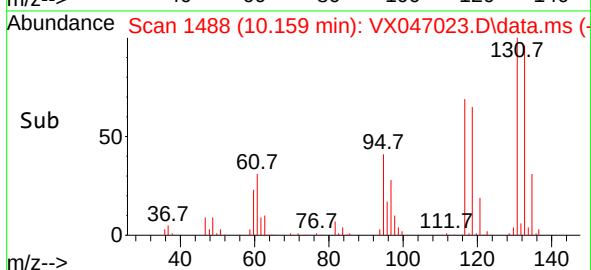
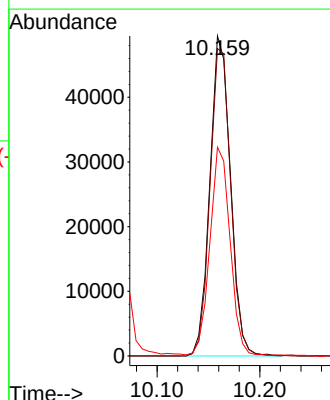
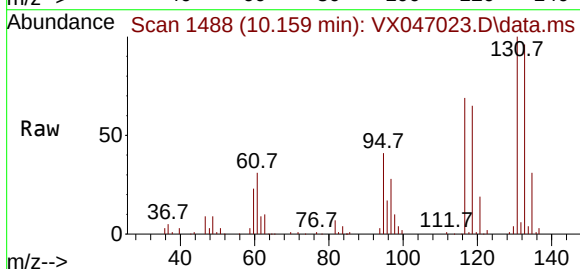
Tgt Ion:131 Resp: 68775

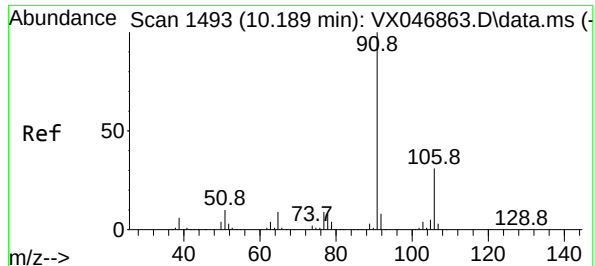
Ion Ratio Lower Upper

131 100

133 97.0 47.6 142.9

119 64.7 32.4 97.2





#67

Ethyl Benzene

Concen: 19.466 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.006 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion: 91 Resp: 34276

Ion Ratio Lower Upper

91 100

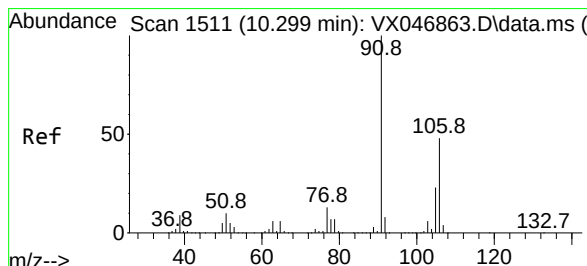
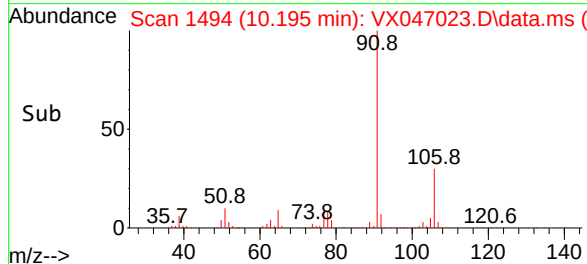
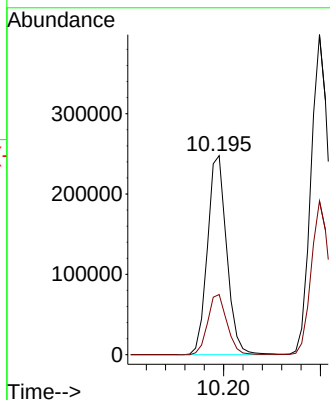
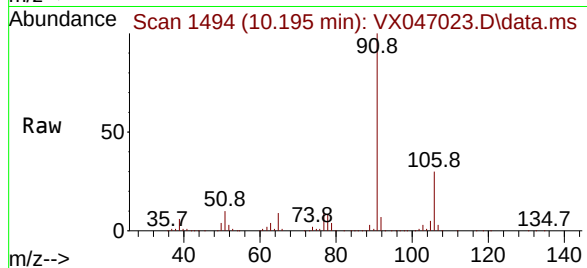
106 30.2 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#68

m/p-Xylenes

Concen: 38.283 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX047023.D

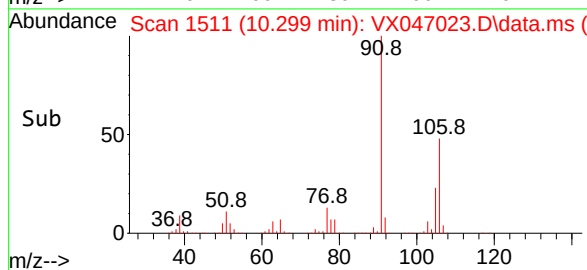
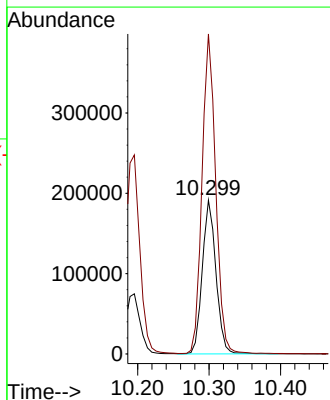
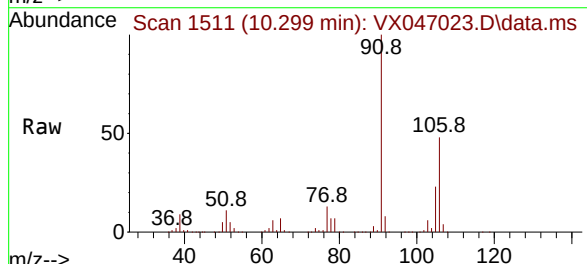
Acq: 16 Jul 2025 12:38

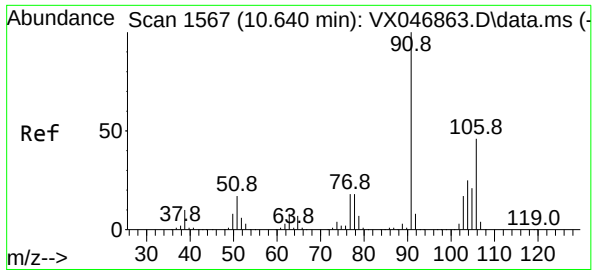
Tgt Ion:106 Resp: 254016

Ion Ratio Lower Upper

106 100

91 208.6 164.6 246.8





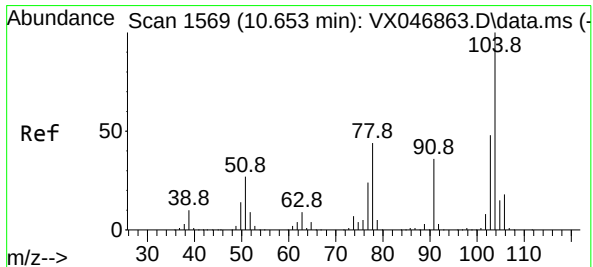
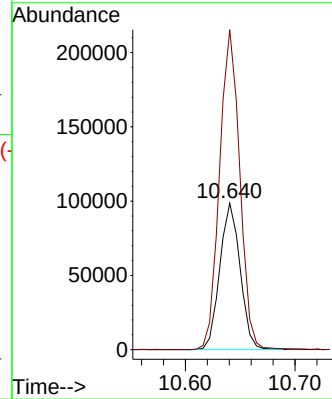
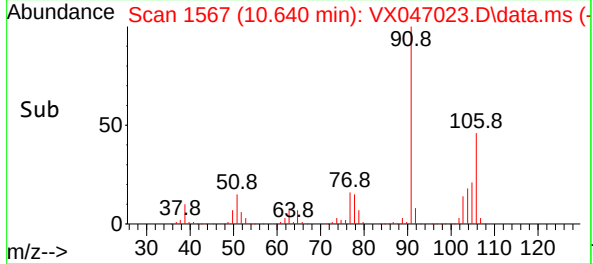
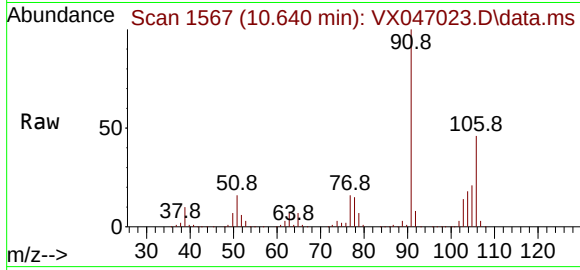
#69
o-Xylene
Concen: 19.845 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01

Tgt Ion:106 Resp: 12719
Ion Ratio Lower Upper
106 100
91 218.2 109.5 328.5

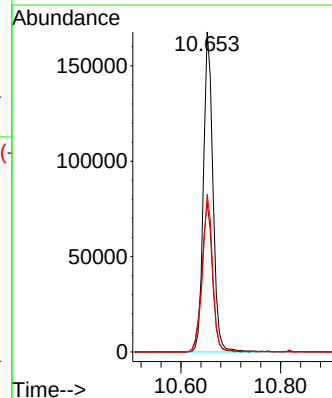
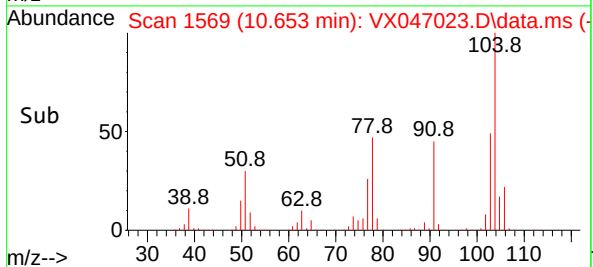
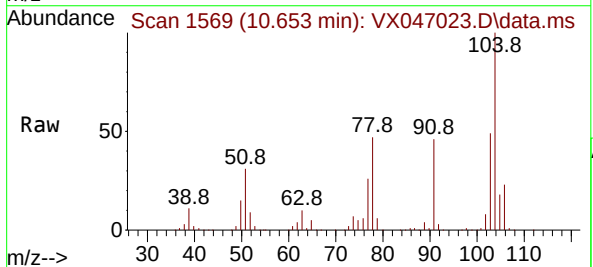
Manual Integrations
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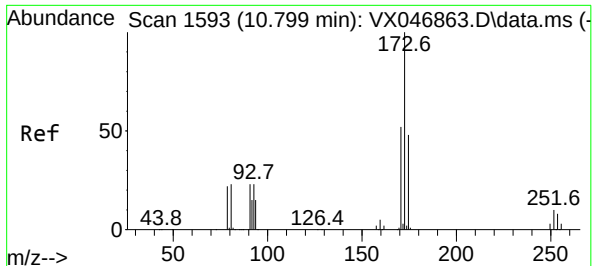
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#70
Styrene
Concen: 20.334 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

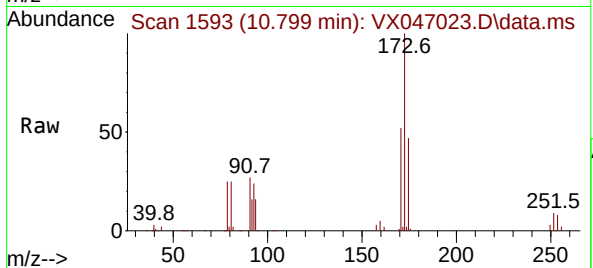
Tgt Ion:104 Resp: 222974
Ion Ratio Lower Upper
104 100
78 51.7 40.3 60.5
103 52.5 42.8 64.2





#71
Bromoform
Concen: 21.000 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

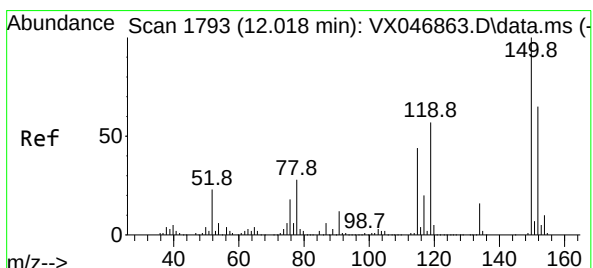
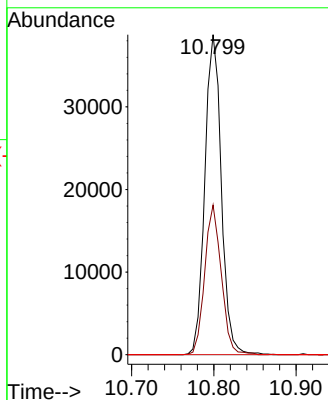
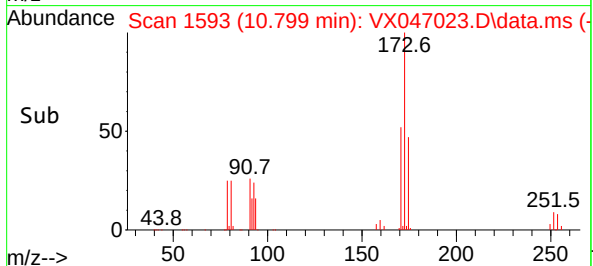
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01



Tgt Ion:173 Resp: 53972
Ion Ratio Lower Upper
173 100
175 46.9 23.8 71.5
254 0.0 0.1 0.1

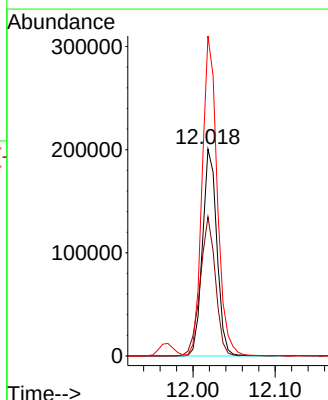
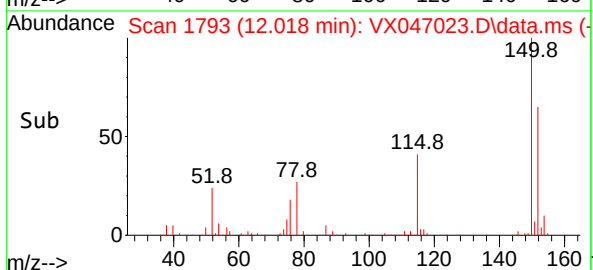
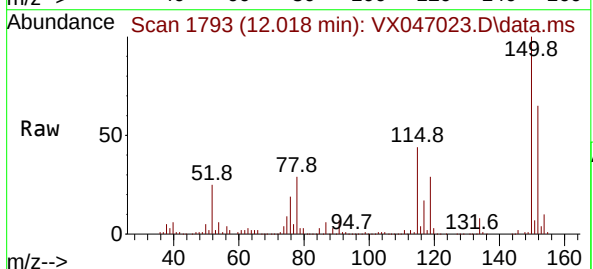
Manual Integrations
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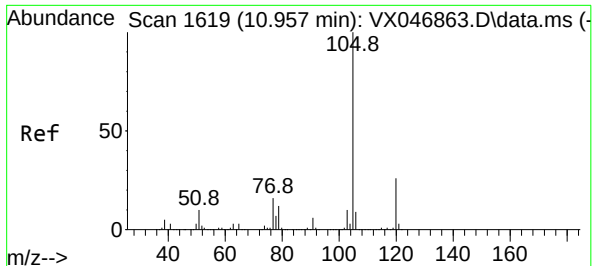
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

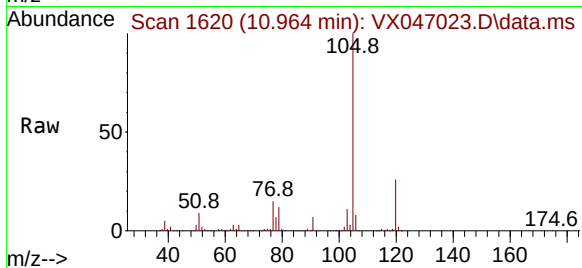
Tgt Ion:152 Resp: 244320
Ion Ratio Lower Upper
152 100
115 71.5 42.4 127.1
150 161.3 0.0 349.2





#73
Isopropylbenzene
Concen: 19.611 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.006 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

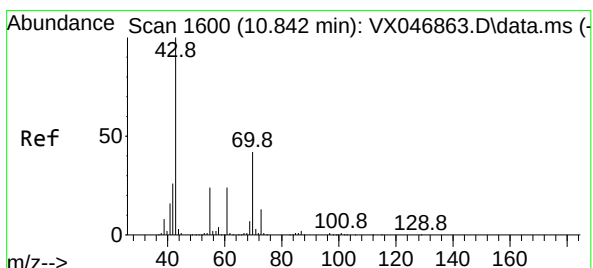
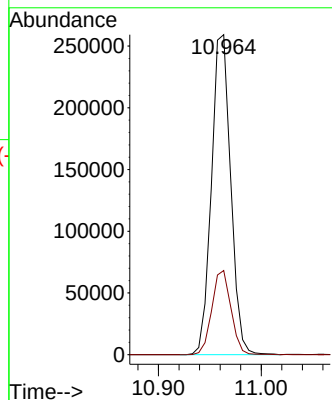
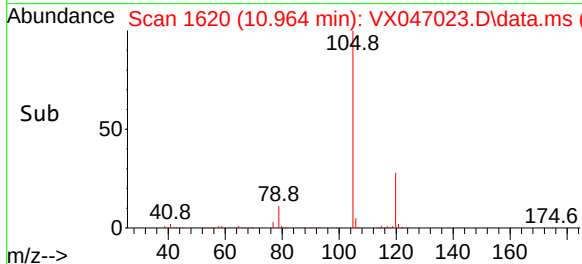
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01



Tgt Ion:105 Resp: 336818
Ion Ratio Lower Upper
105 100
120 26.1 13.2 39.5

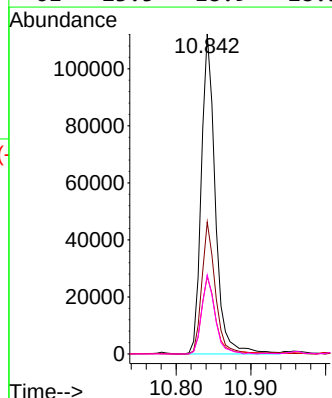
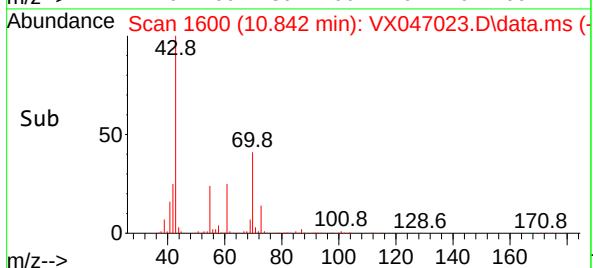
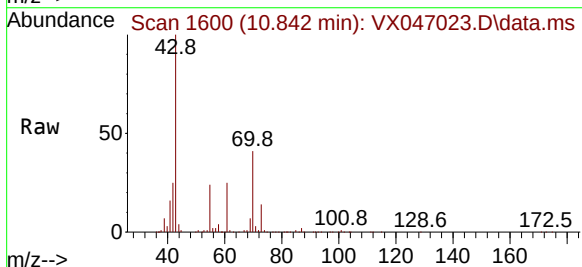
Manual Integrations
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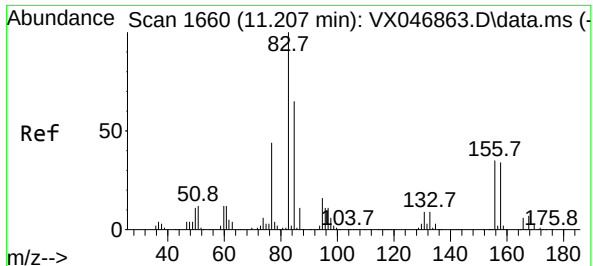
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#74
N-ethyl acetate
Concen: 24.982 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Tgt Ion: 43 Resp: 145799
Ion Ratio Lower Upper
43 100
70 39.7 33.4 50.2
55 24.5 19.6 29.4
61 23.5 18.9 28.3





#75

1,1,2,2-Tetrachloroethane

Concen: 23.726 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion: 83 Resp: 11205

Ion Ratio Lower Upper

83 100

131 9.7 5.0 14.9

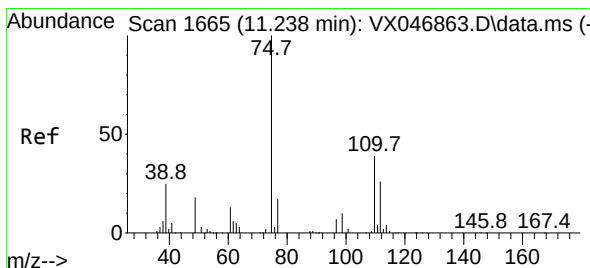
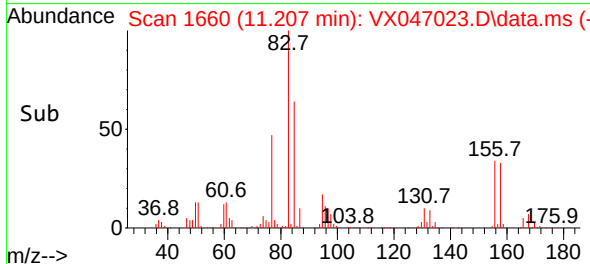
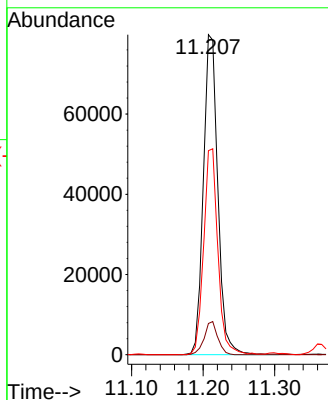
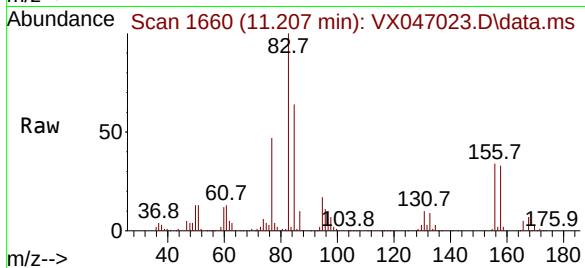
85 63.4 32.1 96.5

Manual Integrations

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Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#76

1,2,3-Trichloropropane

Concen: 23.710 ug/l m

RT: 11.238 min Scan# 1665

Delta R.T. 0.000 min

Lab File: VX047023.D

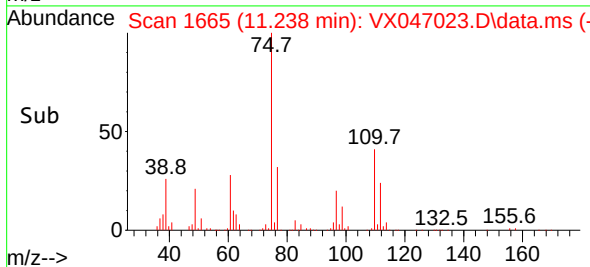
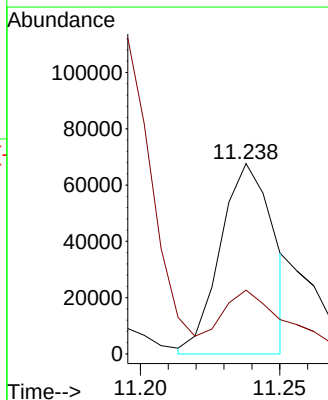
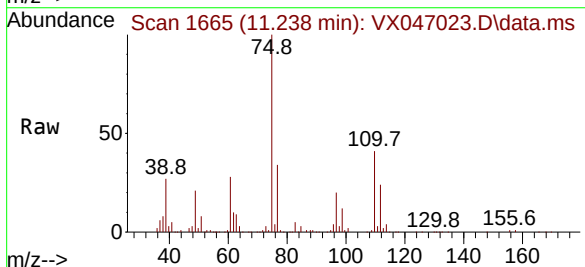
Acq: 16 Jul 2025 12:38

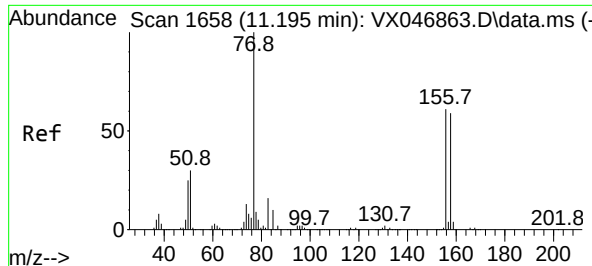
Tgt Ion: 75 Resp: 89508

Ion Ratio Lower Upper

75 100

77 42.6 20.6 61.8





#77

Bromobenzene

Concen: 19.132 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

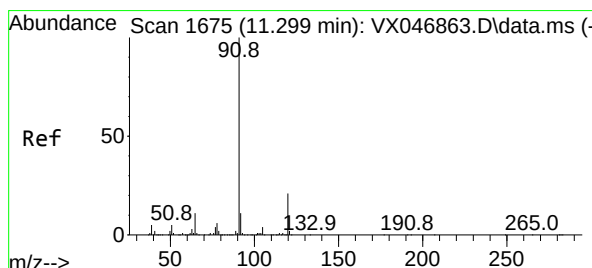
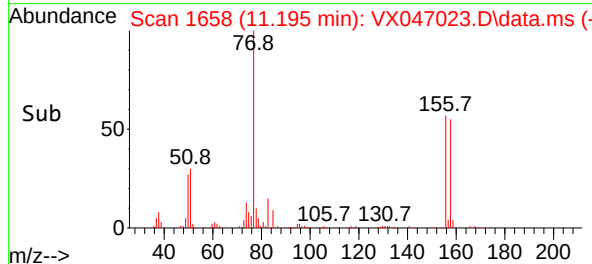
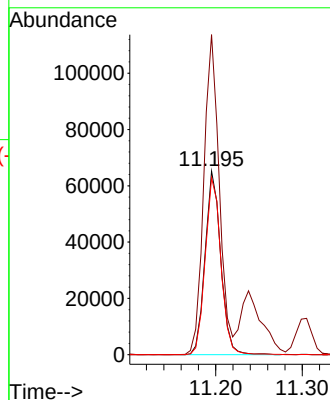
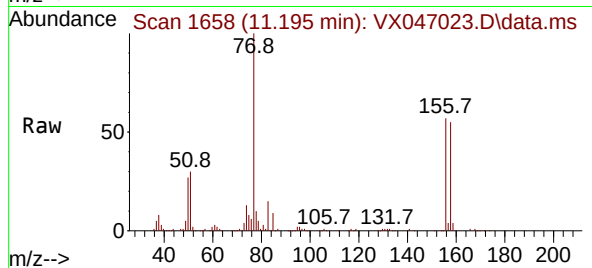
VX0716WBSD01

Tgt Ion:	156	Resp:	81849
Ion Ratio	Lower	Upper	
156	100		
77	172.2	82.3	247.0
158	96.9	47.5	142.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#78

n-propylbenzene

Concen: 19.499 ug/l

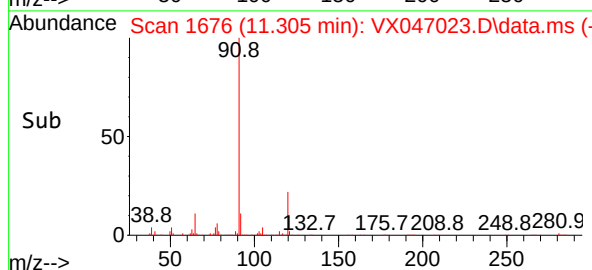
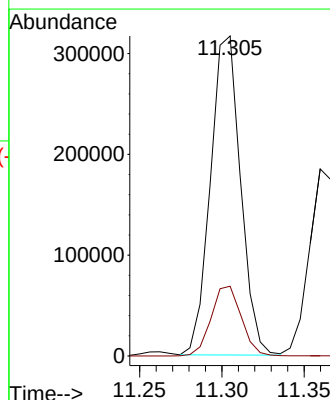
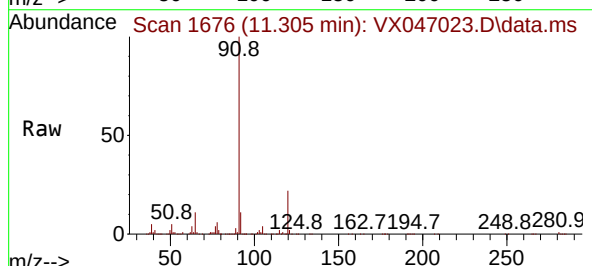
RT: 11.305 min Scan# 1676

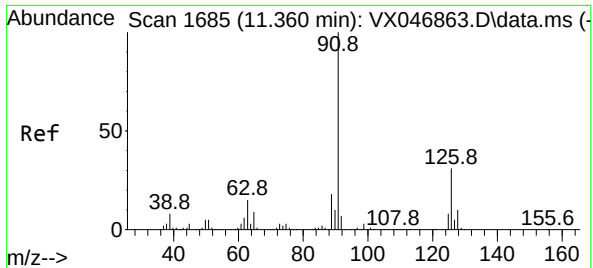
Delta R.T. 0.006 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Tgt Ion:	91	Resp:	403821
Ion Ratio	Lower	Upper	
91	100		
120	22.0	11.2	33.5





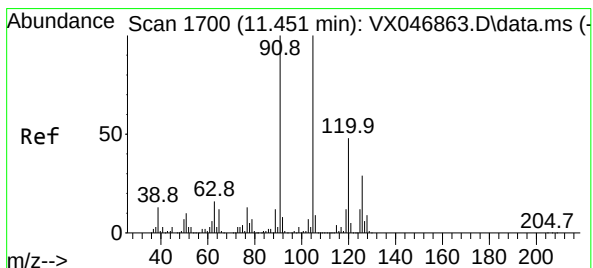
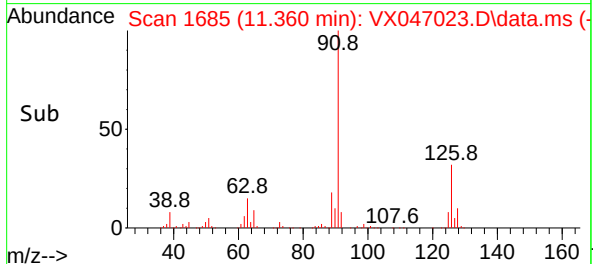
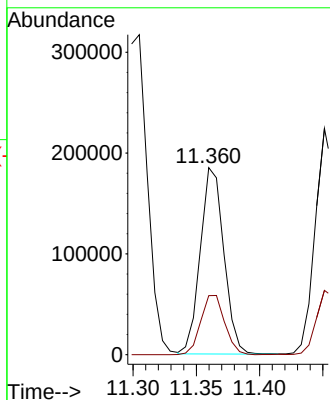
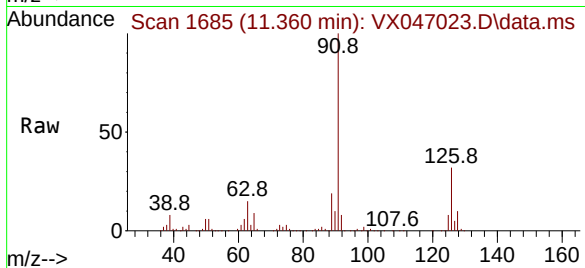
#79
2-Chlorotoluene
Concen: 19.663 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01

Tgt Ion: 91 Resp: 240448
Ion Ratio Lower Upper
91 100
126 32.3 16.6 49.8

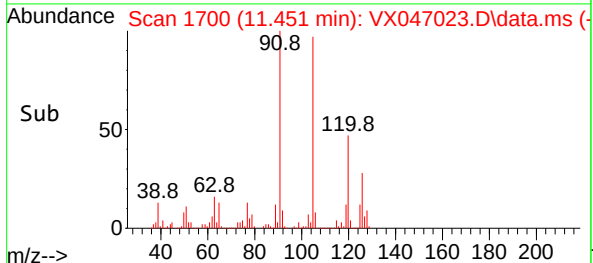
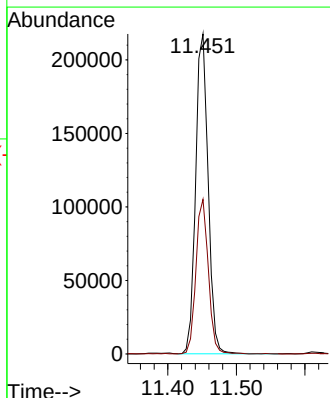
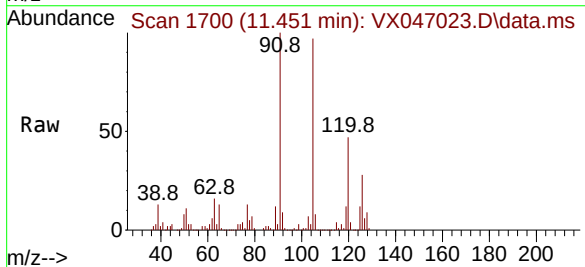
Manual Integrations
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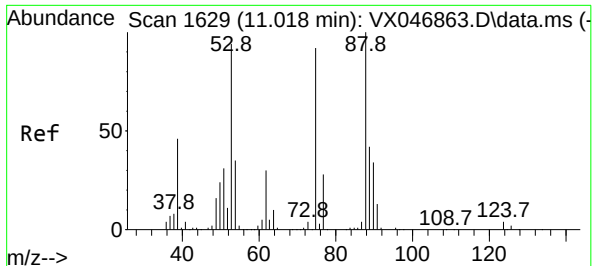
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#80
1,3,5-Trimethylbenzene
Concen: 19.782 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

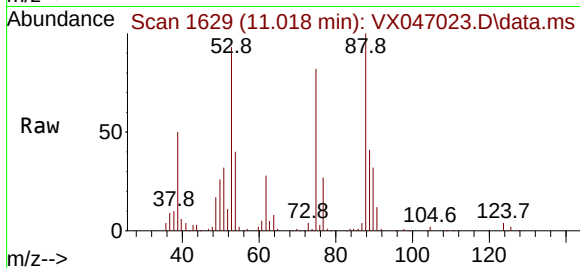
Tgt Ion:105 Resp: 276062
Ion Ratio Lower Upper
105 100
120 48.2 24.1 72.4





#81
trans-1,4-Dichloro-2-butene
Concen: 21.456 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

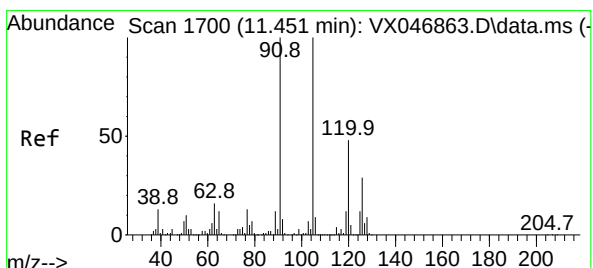
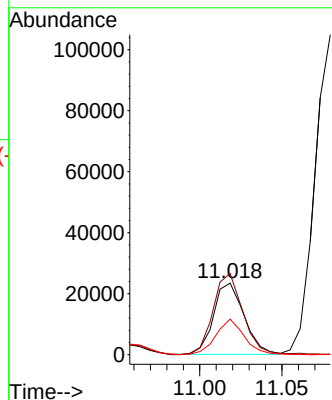
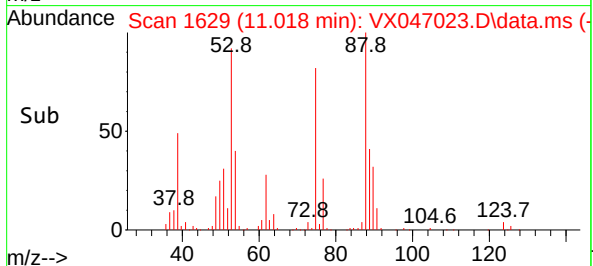
Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01



Tgt Ion: 75 Resp: 30184
Ion Ratio Lower Upper
75 100
53 113.0 83.7 125.5
89 46.4 38.2 57.2

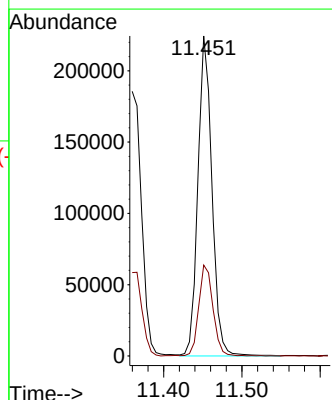
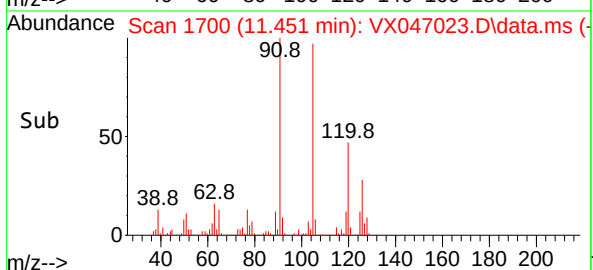
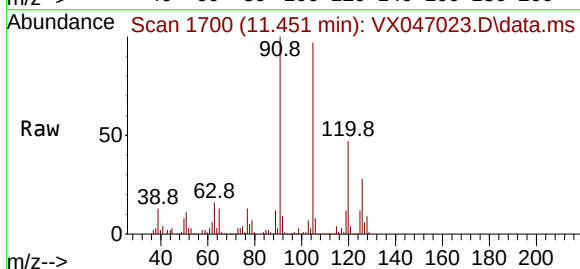
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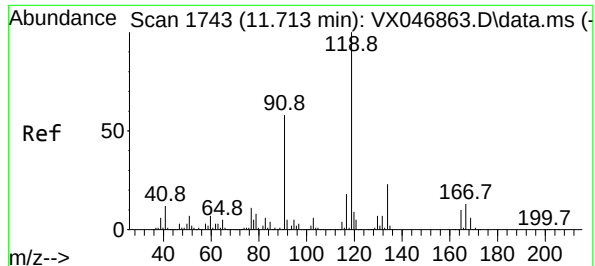
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#82
4-Chlorotoluene
Concen: 19.863 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Tgt Ion: 91 Resp: 280292
Ion Ratio Lower Upper
91 100
126 28.7 14.6 44.0





#83

tert-Butylbenzene

Concen: 19.791 ug/l

RT: 11.713 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion:119 Resp: 28526

Ion Ratio Lower Upper

119 100

91 60.7 28.7 86.3

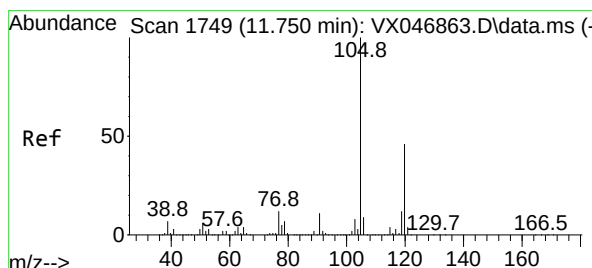
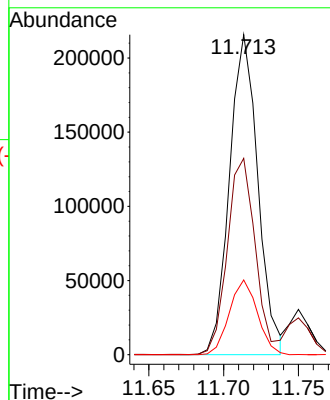
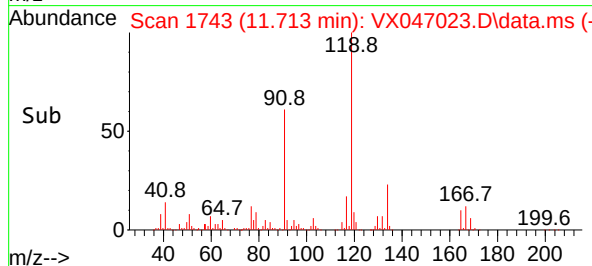
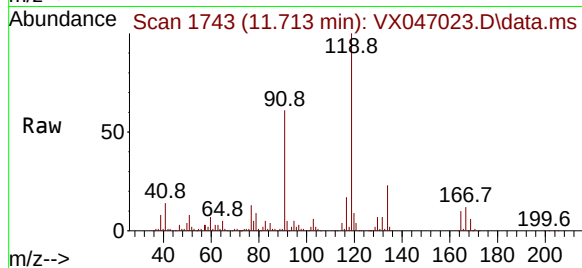
134 23.1 11.4 34.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#84

1,2,4-Trimethylbenzene

Concen: 20.135 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX047023.D

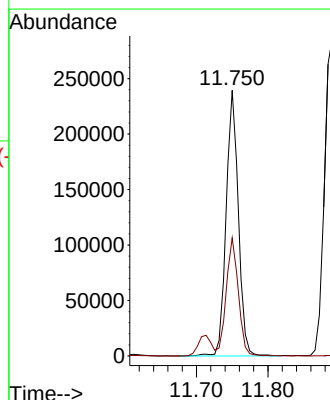
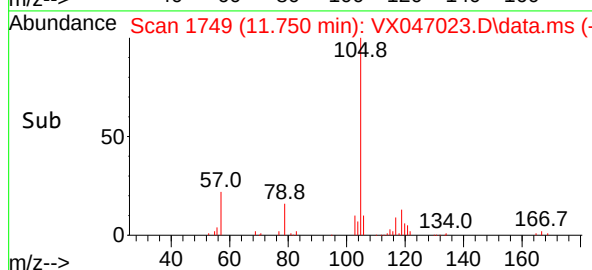
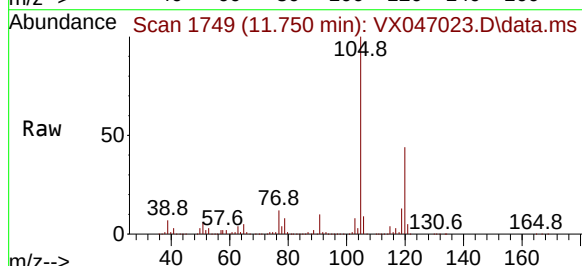
Acq: 16 Jul 2025 12:38

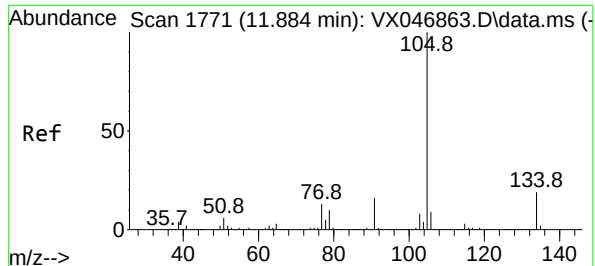
Tgt Ion:105 Resp: 284011

Ion Ratio Lower Upper

105 100

120 44.1 23.3 69.8





#85

sec-Butylbenzene

Concen: 19.767 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.006 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion:105 Resp: 35922

Ion Ratio Lower Upper

105 100

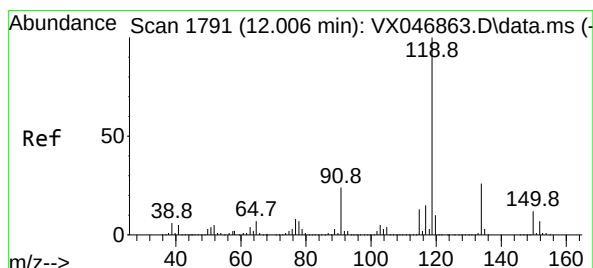
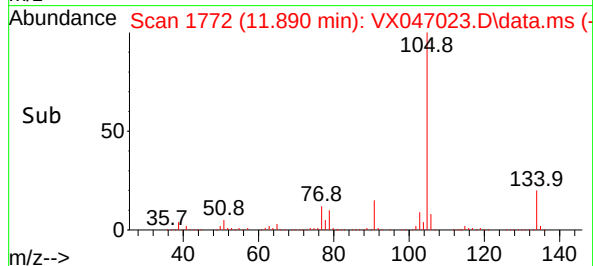
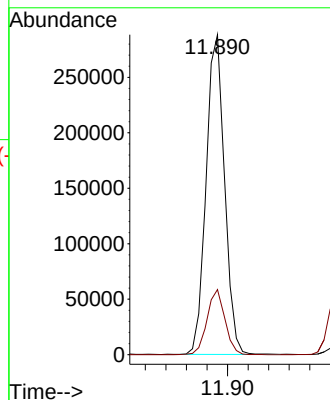
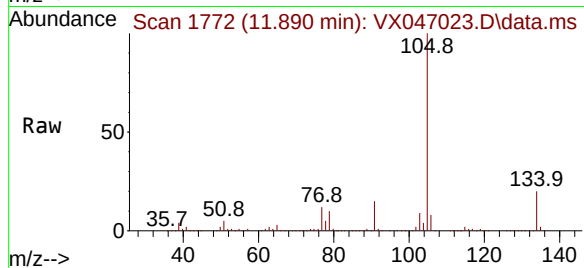
134 19.8 9.9 29.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#86

p-Isopropyltoluene

Concen: 19.689 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

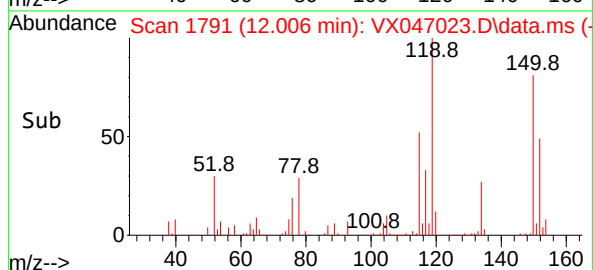
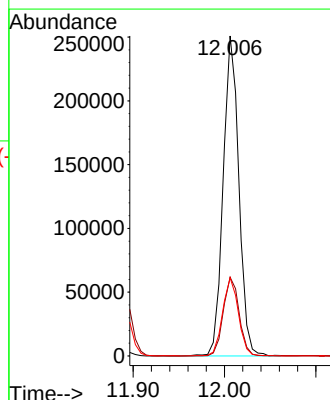
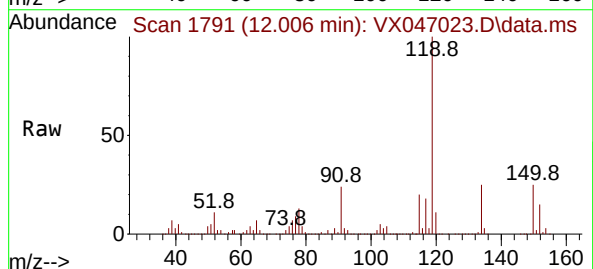
Tgt Ion:119 Resp: 299629

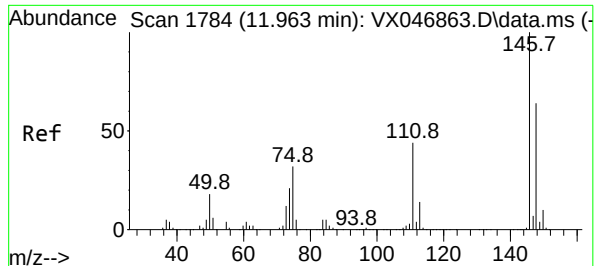
Ion Ratio Lower Upper

119 100

134 25.0 13.0 39.0

91 24.7 12.0 36.1





#87

1,3-Dichlorobenzene

Concen: 19.430 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.006 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion:146 Resp: 155459

Ion Ratio Lower Upper

146 100

111 43.2 20.5 61.6

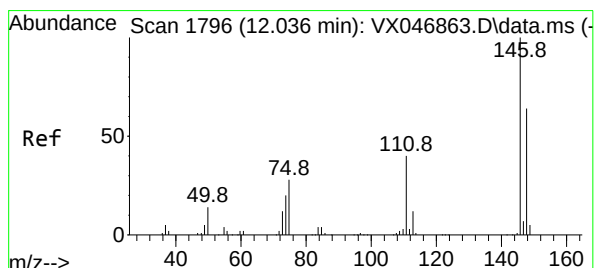
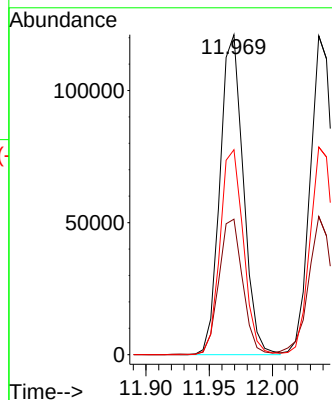
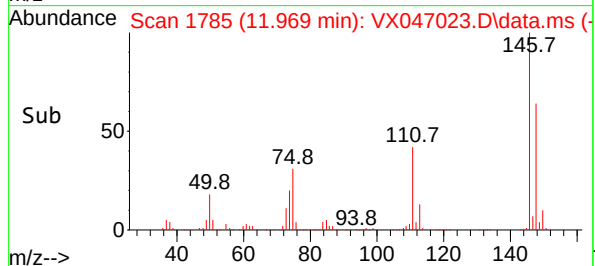
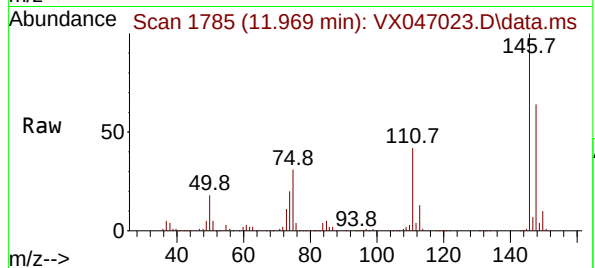
148 64.1 31.4 94.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#88

1,4-Dichlorobenzene

Concen: 18.546 ug/l

RT: 12.037 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

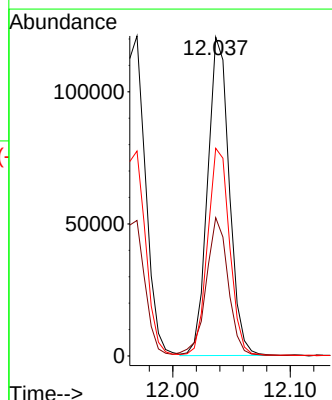
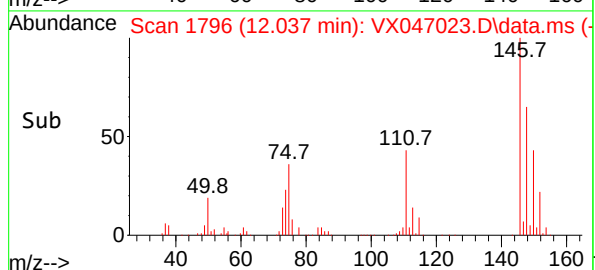
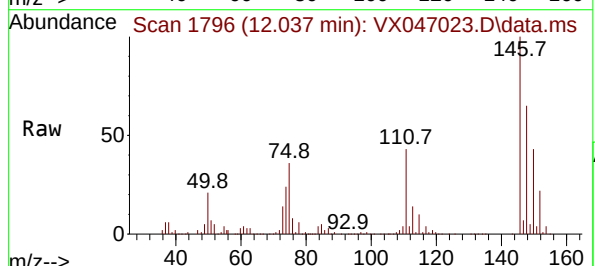
Tgt Ion:146 Resp: 154431

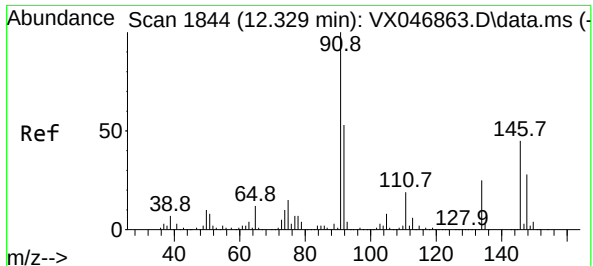
Ion Ratio Lower Upper

146 100

111 44.0 20.2 60.5

148 66.6 32.4 97.0





#89

n-Butylbenzene

Concen: 19.390 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion: 91 Resp: 27726

Ion Ratio Lower Upper

91 100

92 54.6 27.0 81.0

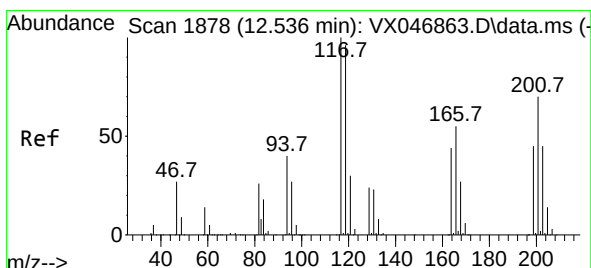
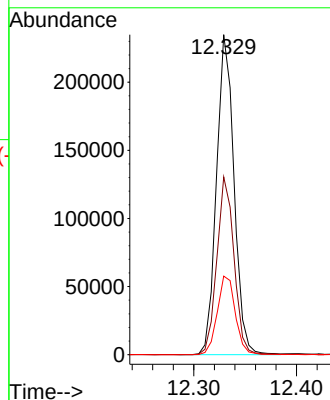
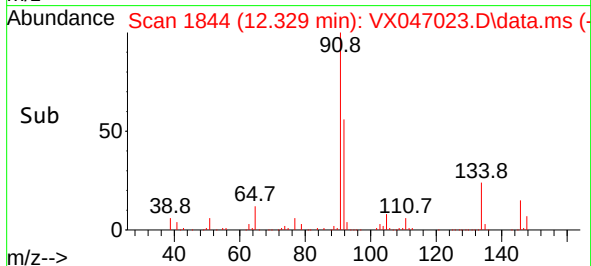
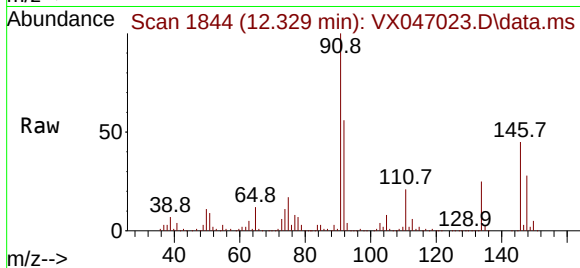
134 25.4 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#90

Hexachloroethane

Concen: 17.702 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX047023.D

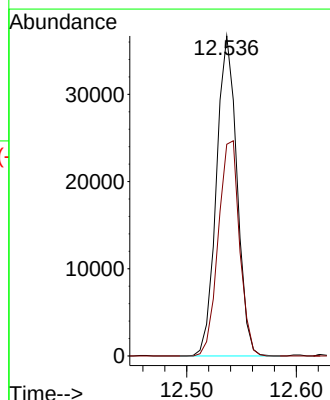
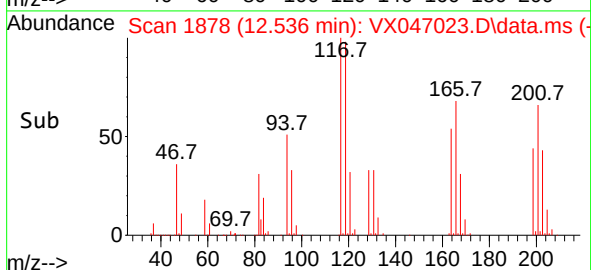
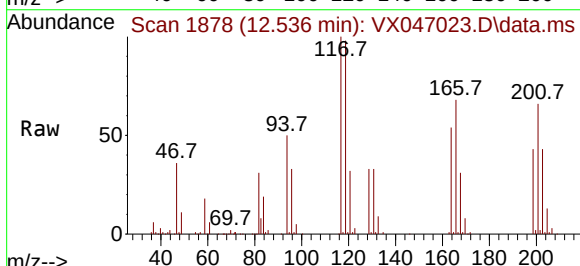
Acq: 16 Jul 2025 12:38

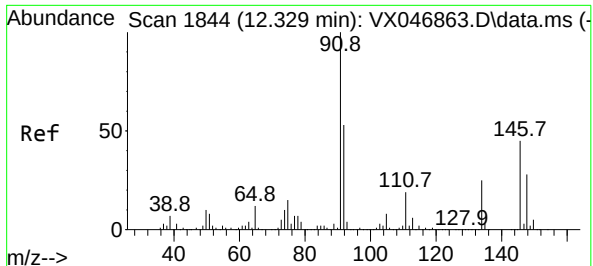
Tgt Ion:117 Resp: 47758

Ion Ratio Lower Upper

117 100

201 69.8 35.8 107.4





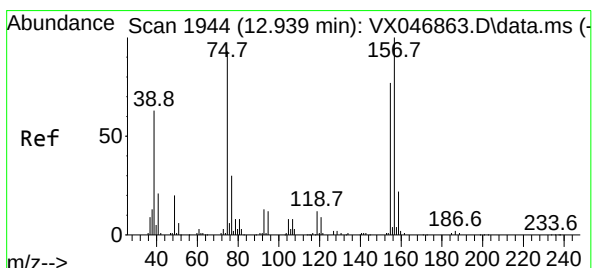
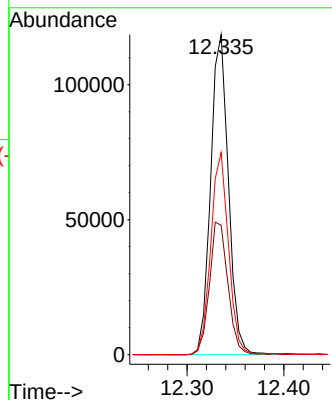
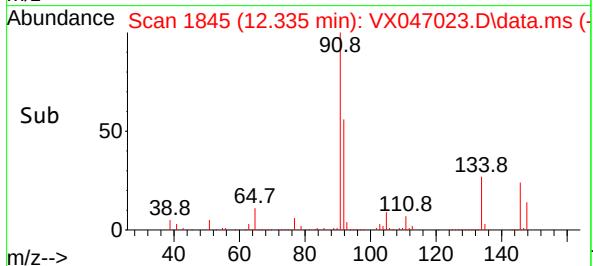
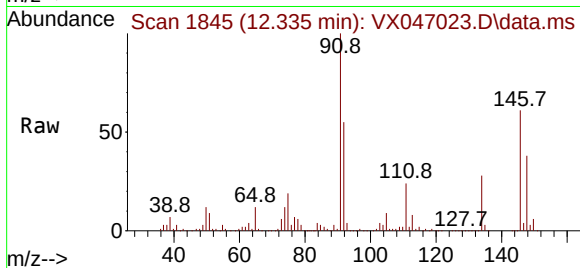
#91
1,2-Dichlorobenzene
Concen: 19.580 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Instrument :
MSVOA_X
ClientSampleId :
VX0716WBSD01

Tgt Ion:146 Resp: 151809
Ion Ratio Lower Upper
146 100
111 43.0 21.1 63.1
148 63.2 31.6 95.0

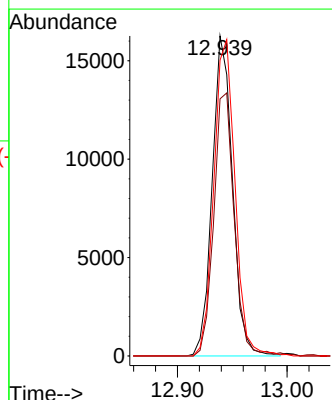
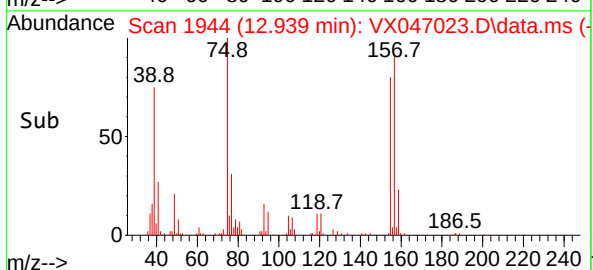
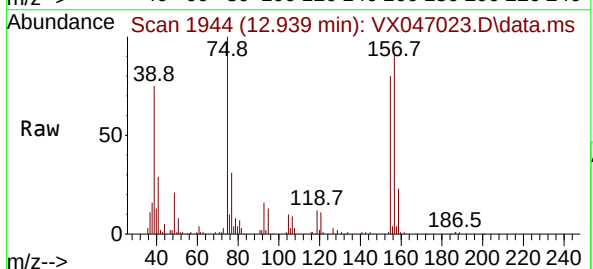
Manual Integrations
APPROVED

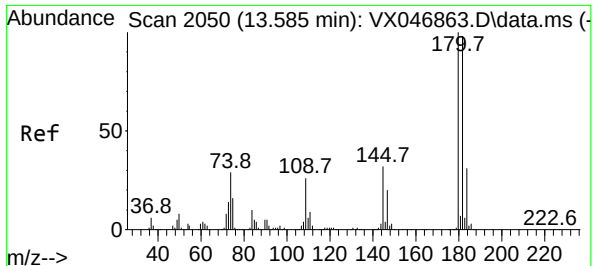
Reviewed By :Mahesh Dadoda 07/17/2025
Supervised By :Semsettin Yesilyurt 07/17/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 25.310 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX047023.D
Acq: 16 Jul 2025 12:38

Tgt Ion: 75 Resp: 20906
Ion Ratio Lower Upper
75 100
155 83.3 43.1 129.4
157 103.1 56.5 169.5





#93

1,2,4-Trichlorobenzene

Concen: 20.090 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion:180 Resp: 105819

Ion Ratio Lower Upper

180 100

182 91.5 47.3 141.9

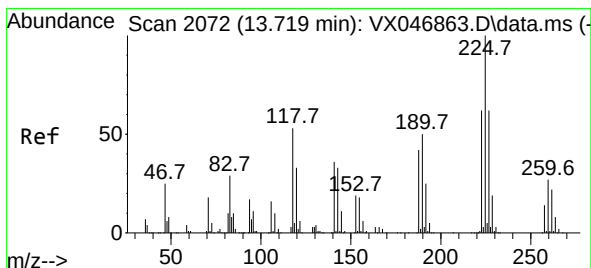
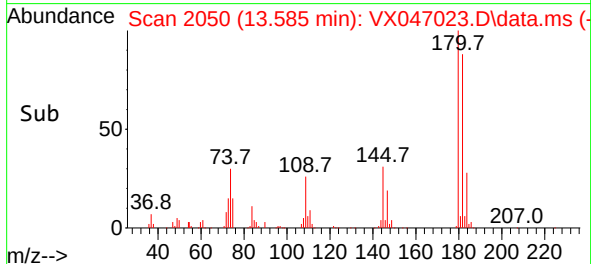
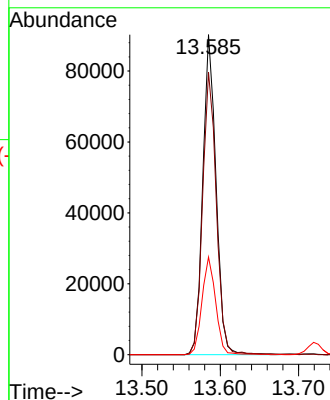
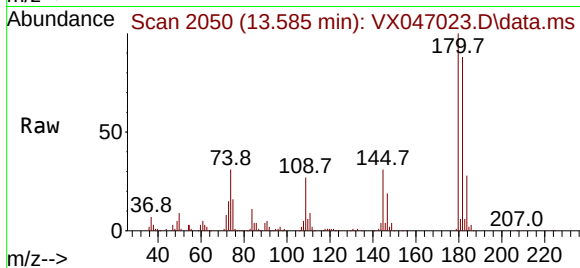
145 31.6 16.1 48.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#94

Hexachlorobutadiene

Concen: 18.888 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.006 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

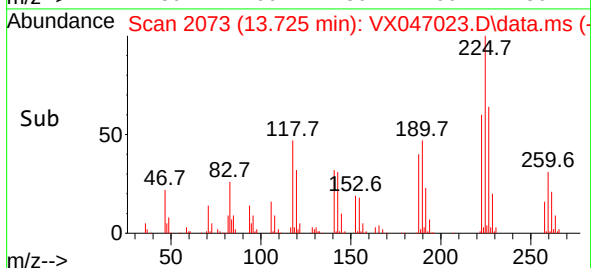
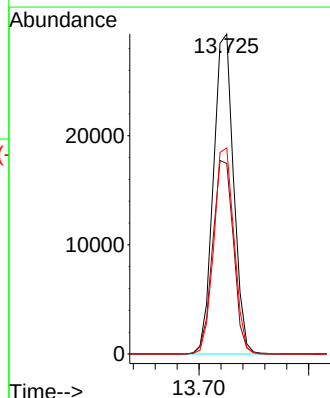
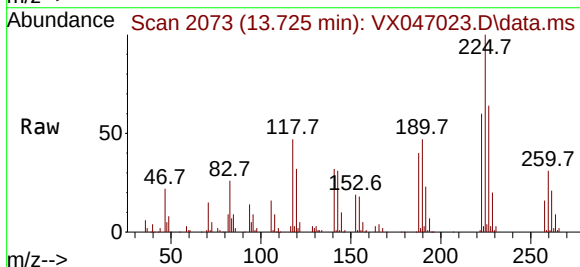
Tgt Ion:225 Resp: 37519

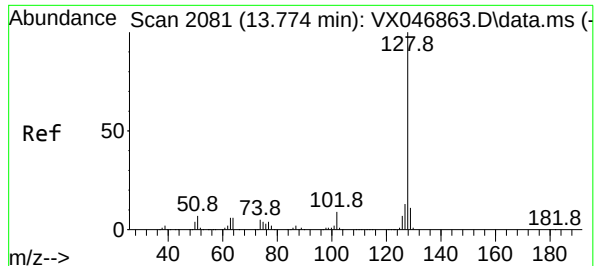
Ion Ratio Lower Upper

225 100

223 62.3 31.6 94.7

227 64.5 31.6 94.7





#95

Naphthalene

Concen: 23.754 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

Instrument :

MSVOA_X

ClientSampleId :

VX0716WBSD01

Tgt Ion:128 Resp: 32969

Ion Ratio Lower Upper

128 100

127 12.5 10.2 15.4

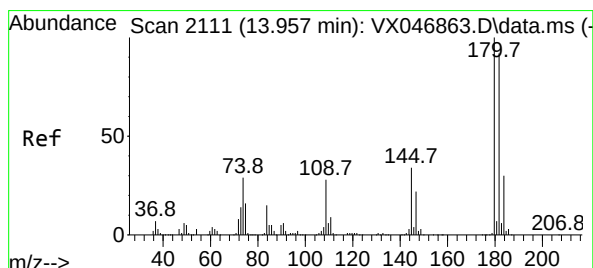
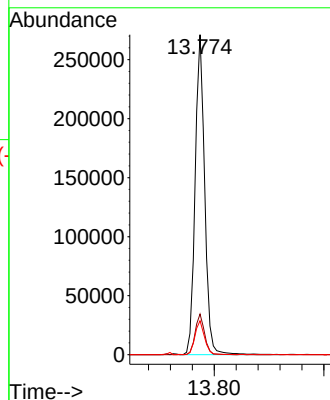
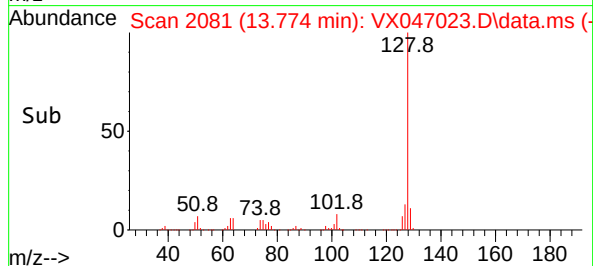
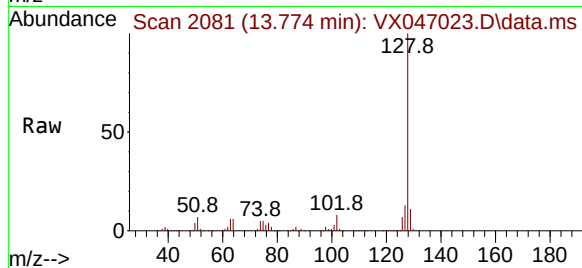
129 10.7 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 07/17/2025

Supervised By :Semsettin Yesilyurt 07/17/2025



#96

1,2,3-Trichlorobenzene

Concen: 19.969 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. 0.000 min

Lab File: VX047023.D

Acq: 16 Jul 2025 12:38

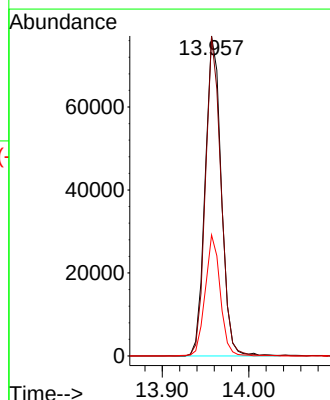
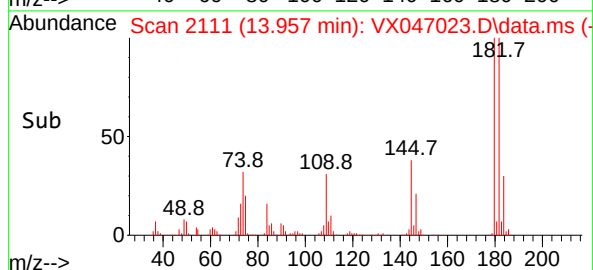
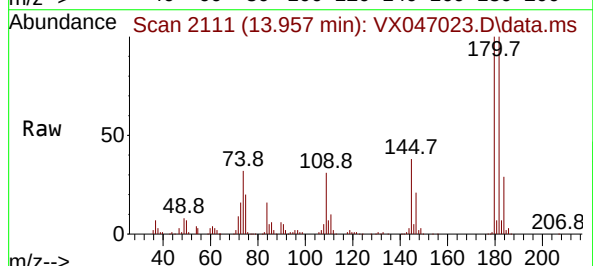
Tgt Ion:180 Resp: 99385

Ion Ratio Lower Upper

180 100

182 96.3 46.7 140.1

145 35.3 16.8 50.3



Manual Integration Report

Sequence:	VX070225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC001	VX046860.D	1,2,3-Trichloropropane	JOHN	7/3/2025 8:43:52 AM	MMDadoda	7/3/2025 3:09:42 PM	Peak Integrated by Software
VSTDIC001	VX046860.D	1,4-Dichlorobenzene	JOHN	7/3/2025 8:43:52 AM	MMDadoda	7/3/2025 3:09:42 PM	Peak Integrated by Software
VSTDIC001	VX046860.D	1,4-Dioxane	JOHN	7/3/2025 8:43:52 AM	MMDadoda	7/3/2025 3:09:42 PM	Peak Integrated by Software
VSTDIC001	VX046860.D	2-Butanone	JOHN	7/3/2025 8:43:52 AM	MMDadoda	7/3/2025 3:09:42 PM	Peak Integrated by Software
VSTDIC001	VX046860.D	Acrylonitrile	JOHN	7/3/2025 8:43:52 AM	MMDadoda	7/3/2025 3:09:42 PM	Peak Integrated by Software
VSTDIC001	VX046860.D	Carbon Tetrachloride	JOHN	7/3/2025 8:43:52 AM	MMDadoda	7/3/2025 3:09:42 PM	Peak Integrated by Software
VSTDIC001	VX046860.D	Ethyl Acetate	JOHN	7/3/2025 8:43:52 AM	MMDadoda	7/3/2025 3:09:42 PM	Peak Integrated by Software
VSTDIC001	VX046860.D	Methacrylonitrile	JOHN	7/3/2025 8:43:52 AM	MMDadoda	7/3/2025 3:09:42 PM	Peak Integrated by Software
VSTDIC005	VX046861.D	1,2,3-Trichloropropane	JOHN	7/3/2025 8:43:57 AM	MMDadoda	7/3/2025 3:09:44 PM	Peak Integrated by Software
VSTDIC020	VX046862.D	1,2,3-Trichloropropane	JOHN	7/3/2025 8:44:01 AM	MMDadoda	7/3/2025 3:09:46 PM	Peak Integrated by Software
VSTDICCC050	VX046863.D	1,2,3-Trichloropropane	JOHN	7/3/2025 8:44:05 AM	MMDadoda	7/3/2025 3:09:47 PM	Peak Integrated by Software
VSTDIC100	VX046864.D	1,2,3-Trichloropropane	JOHN	7/3/2025 8:44:09 AM	MMDadoda	7/3/2025 3:09:49 PM	Peak Integrated by Software
VSTDIC150	VX046865.D	1,2,3-Trichloropropane	JOHN	7/3/2025 8:44:13 AM	MMDadoda	7/3/2025 3:09:51 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VX070225

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VX046867.D	1,2,3-Trichloropropane	JOHN	7/3/2025 8:44:17 AM	MMDadoda	7/3/2025 3:09:53 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vx071625	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX047016.D	1,2,3-Trichloropropane	MMDadoda	7/17/2025 8:20:31 AM	Sam	7/17/2025 8:23:21 AM	Peak Integrated by Software
VX0716WBS01	VX047022.D	1,2,3-Trichloropropane	MMDadoda	7/17/2025 8:20:38 AM	Sam	7/17/2025 8:23:38 AM	Peak Integrated by Software
VX0716WBSD01	VX047023.D	1,2,3-Trichloropropane	MMDadoda	7/17/2025 8:20:41 AM	Sam	7/17/2025 8:23:41 AM	Peak Integrated by Software
VSTDCCC050	VX047036.D	1,2,3-Trichloropropane	MMDadoda	7/17/2025 8:20:56 AM	Sam	7/17/2025 8:24:03 AM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX070225

Review By	John Carlone	Review On	7/3/2025 8:44:30 AM
Supervise By	Maresh Dadoda	Supervise On	7/3/2025 3:09:59 PM
SubDirectory	VX070225	HP Acquire Method	HP Processing Method 82X070225W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134642		
Initial Calibration Stds	VP134633,VP134634,VP134635,VP134638,VP134639,VP134640		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP134641		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX046859.D	02 Jul 2025 11:12	JC/MD	Ok
2	VSTDIC001	VX046860.D	02 Jul 2025 12:11	JC/MD	Ok,M
3	VSTDIC005	VX046861.D	02 Jul 2025 12:37	JC/MD	Ok,M
4	VSTDIC020	VX046862.D	02 Jul 2025 13:18	JC/MD	Ok,M
5	VSTDIC050	VX046863.D	02 Jul 2025 13:39	JC/MD	Ok,M
6	VSTDIC100	VX046864.D	02 Jul 2025 14:10	JC/MD	Ok,M
7	VSTDIC150	VX046865.D	02 Jul 2025 14:31	JC/MD	Ok,M
8	VIBLK	VX046866.D	02 Jul 2025 14:53	JC/MD	Ok
9	VSTDICV050	VX046867.D	02 Jul 2025 15:14	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX071625

Review By	Maresh Dadoda	Review On	7/17/2025 8:21:30 AM
Supervise By	Semsettin Yesilyurt	Supervise On	7/17/2025 8:24:32 AM
SubDirectory	VX071625	HP Acquire Method	HP Processing Method 82X070225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134774		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134775,VP134777		

Sr#	Sampleld	Data File Name	Date-Time	Operator	Status
1	BFB	VX047015.D	16 Jul 2025 08:58	JC/MD	Ok
2	VSTDCCC050	VX047016.D	16 Jul 2025 09:26	JC/MD	Ok,M
3	VX0716MBL01	VX047017.D	16 Jul 2025 10:13	JC/MD	Ok
4	VX0716WBL01	VX047018.D	16 Jul 2025 10:34	JC/MD	Ok
5	VX0716MBS01	VX047019.D	16 Jul 2025 11:02	JC/MD	Ok,M
6	VX0716MBSD01	VX047020.D	16 Jul 2025 11:29	JC/MD	Ok,M
7	Q2600-11DL	VX047021.D	16 Jul 2025 11:50	JC/MD	Ok,M
8	VX0716WBS01	VX047022.D	16 Jul 2025 12:11	JC/MD	Ok,M
9	VX0716WBSD01	VX047023.D	16 Jul 2025 12:38	JC/MD	Ok,M
10	PB168848TB	VX047024.D	16 Jul 2025 12:59	JC/MD	Ok,M
11	Q2592-02	VX047025.D	16 Jul 2025 13:20	JC/MD	Ok
12	Q2600-04	VX047026.D	16 Jul 2025 13:42	JC/MD	Ok
13	Q2600-08	VX047027.D	16 Jul 2025 14:03	JC/MD	Ok,M
14	Q2600-12	VX047028.D	16 Jul 2025 14:24	JC/MD	Ok,M
15	Q2605-01	VX047029.D	16 Jul 2025 14:46	JC/MD	Ok,M
16	Q2605-02	VX047030.D	16 Jul 2025 15:07	JC/MD	Ok,M
17	Q2605-03	VX047031.D	16 Jul 2025 15:29	JC/MD	Ok,M
18	Q2605-04	VX047032.D	16 Jul 2025 15:51	JC/MD	Ok,M
19	Q2609-04	VX047033.D	16 Jul 2025 16:12	JC/MD	Dilution
20	Q2609-08	VX047034.D	16 Jul 2025 16:34	JC/MD	Ok,M
21	Q2614-06	VX047035.D	16 Jul 2025 16:55	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX071625

Review By	Mahesh Dadoda	Review On	7/17/2025 8:21:30 AM
Supervise By	Semsettin Yesilyurt	Supervise On	7/17/2025 8:24:32 AM
SubDirectory	VX071625	HP Acquire Method	HP Processing Method 82X070225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134774		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134775,VP134777		

22	VSTDCCC050	VX047036.D	16 Jul 2025 17:17	JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX070225

Review By	John Carlone	Review On	7/3/2025 8:44:30 AM
Supervise By	Maresh Dadoda	Supervise On	7/3/2025 3:09:59 PM
SubDirectory	VX070225	HP Acquire Method	HP Processing Method 82X070225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134642
Initial Calibration Stds	VP134633,VP134634,VP134635,VP134638,VP134639,VP134640
CCC	
Internal Standard/PEM	
ICV/I.BLK	VP134641
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX046859.D	02 Jul 2025 11:12		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX046860.D	02 Jul 2025 12:11		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX046861.D	02 Jul 2025 12:37	%D Failed for com.#13 in 5 ppb	JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX046862.D	02 Jul 2025 13:18		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX046863.D	02 Jul 2025 13:39	LR-13	JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX046864.D	02 Jul 2025 14:10		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX046865.D	02 Jul 2025 14:31		JC/MD	Ok,M
8	VIBLK	VIBLK	VX046866.D	02 Jul 2025 14:53		JC/MD	Ok
9	VSTDICV050	ICVVX070225	VX046867.D	02 Jul 2025 15:14		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX071625

Review By	Mahesh Dadoda	Review On	7/17/2025 8:21:30 AM
Supervise By	Semsettin Yesilyurt	Supervise On	7/17/2025 8:24:32 AM
SubDirectory	VX071625	HP Acquire Method	HP Processing Method 82X070225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134774		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134775,VP134777		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047015.D	16 Jul 2025 08:58		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX047016.D	16 Jul 2025 09:26		JC/MD	Ok,M
3	VX0716MBL01	VX0716MBL01	VX047017.D	16 Jul 2025 10:13		JC/MD	Ok
4	VX0716WBL01	VX0716WBL01	VX047018.D	16 Jul 2025 10:34		JC/MD	Ok
5	VX0716MBS01	VX0716MBS01	VX047019.D	16 Jul 2025 11:02		JC/MD	Ok,M
6	VX0716MBSD01	VX0716MBSD01	VX047020.D	16 Jul 2025 11:29		JC/MD	Ok,M
7	Q2600-11DL	END-OF-TRENCHDL	VX047021.D	16 Jul 2025 11:50	vial -C	JC/MD	Ok,M
8	VX0716WBS01	VX0716WBS01	VX047022.D	16 Jul 2025 12:11		JC/MD	Ok,M
9	VX0716WBSD01	VX0716WBSD01	VX047023.D	16 Jul 2025 12:38		JC/MD	Ok,M
10	PB168848TB	PB168848TB	VX047024.D	16 Jul 2025 12:59		JC/MD	Ok,M
11	Q2592-02	WC-SOIL-20250711	VX047025.D	16 Jul 2025 13:20	vial A pH#5.0	JC/MD	Ok
12	Q2600-04	TRENCH	VX047026.D	16 Jul 2025 13:42	vial A pH#5.0	JC/MD	Ok
13	Q2600-08	STOCK-PILE	VX047027.D	16 Jul 2025 14:03	vial A pH#5.0	JC/MD	Ok,M
14	Q2600-12	END-OF-TRENCH	VX047028.D	16 Jul 2025 14:24	vial A pH#5.0	JC/MD	Ok,M
15	Q2605-01	V908	VX047029.D	16 Jul 2025 14:46	vial A pH#5.0	JC/MD	Ok,M
16	Q2605-02	VB16135	VX047030.D	16 Jul 2025 15:07	vial A pH#5.0	JC/MD	Ok,M
17	Q2605-03	VB15061	VX047031.D	16 Jul 2025 15:29	vial A pH#5.0	JC/MD	Ok,M
18	Q2605-04	V897	VX047032.D	16 Jul 2025 15:51	vial A pH#5.0	JC/MD	Ok,M

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX071625

Review By	Maresh Dadoda	Review On	7/17/2025 8:21:30 AM
Supervise By	Semsettin Yesilyurt	Supervise On	7/17/2025 8:24:32 AM
SubDirectory	VX071625	HP Acquire Method	HP Processing Method 82X070225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134774		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134775,VP134777		

19	Q2609-04	710-C	VX047033.D	16 Jul 2025 16:12	vial A pH#5.0 Need 5X	JC/MD	Dilution
20	Q2609-08	709-A	VX047034.D	16 Jul 2025 16:34	vial A pH#5.0	JC/MD	Ok,M
21	Q2614-06	HR-MCN-COMP-01	VX047035.D	16 Jul 2025 16:55	vial A pH#5.0	JC/MD	Ok
22	VSTDCCC050	VSTDCCC050EC	VX047036.D	16 Jul 2025 17:17		JC/MD	Ok,M

M : Manual Integration

SOP ID : M1311-TCLP-16
SDG No : N/A
Weigh By : JP
Balance ID : WC SC-7.
pH Meter ID : WC PH METER-1
Extraction By : JP
Filter By : JP
Pipette ID : WC
Tumbler ID : ZHE-1 / ZHE-2
TCLP Filter ID : 50223706

Start Prep Date : 07/15/2025 Time : 15:30
End Prep Date : 07/16/2025 Time : 08:15
Combination Ratio : 20
ZHE Cleaning Batch : 78 N/A
Initial Room Temperature: 23 °C
Final Room Temperature: 22 °C
TCLP Technician Signature : *JP*
Supervisor By : 12

Standard Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP112804
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	430992	N/A

Extraction Conformance/Non-Conformance Comments:

TUMBLER ZHE-1 / ZHE-2 checked, 30 rpm. ALL ZHE samples are extracted and given as vial A & B. Leak checked after 10 minutes of tumbling.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
07/16/25 10:00	<i>JP</i> / Lab Room	<i>JP</i> / VOC Lab
	Preparation Group	Analysis Group

TCLP EXTRACTION LOGPAGE

PB168848

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
PB168848TB	LEB848	12	N/A	500	N/A	N/A	N/A	4.95	N/A	ZHE-2
Q2592-02	WC-SOIL-20250711	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2600-04	TRENCH	02	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2600-08	STOCK-PILE	03	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2600-12	END-OF-TRENCH	04	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2605-01	V908	05	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2605-02	VB16135	06	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2605-03	VB15061	07	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2605-04	V897	08	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2609-04	710-C	09	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2609-08	709-A	10	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q2614-06	HR-MCN-COMP-01	11	25.04	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
PB168848TB	LEB848	N/A	N/A	N/A	N/A	N/A	N/A
Q2592-02	WC-SOIL-20250711	N/A	N/A	N/A	N/A	100	N/A
Q2600-04	TRENCH	N/A	N/A	N/A	N/A	100	N/A
Q2600-08	STOCK-PILE	N/A	N/A	N/A	N/A	100	N/A
Q2600-12	END-OF-TRENCH	N/A	N/A	N/A	N/A	100	N/A
Q2605-01	V908	N/A	N/A	N/A	N/A	100	N/A
Q2605-02	VB16135	N/A	N/A	N/A	N/A	100	N/A
Q2605-03	VB15061	N/A	N/A	N/A	N/A	100	N/A
Q2605-04	V897	N/A	N/A	N/A	N/A	100	N/A
Q2609-04	710-C	N/A	N/A	N/A	N/A	100	N/A
Q2609-08	709-A	N/A	N/A	N/A	N/A	100	N/A
Q2614-06	HR-MCN-COMP-01	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WB

WorkList Name : tclp zhe q2600

WorkList ID : 190735

Department : TCLP Extraction

Date : 07-15-2025 11:57:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2592-02	WC-SOIL-20250711	Solid	TCLP ZHE Extraction	Cool 4 deg C	PARS02	D51	07/11/2025	1311 ZHE
Q2600-04	TRENCH	Solid	TCLP ZHE Extraction	Cool 4 deg C	TACO01	D41	07/14/2025	1311 ZHE
Q2600-08	STOCK-PILE	Solid	TCLP ZHE Extraction	Cool 4 deg C	TACO01	D41	07/14/2025	1311 ZHE
Q2600-12	END-OF-TRENCH	Solid	TCLP ZHE Extraction	Cool 4 deg C	TACO01	D41	07/14/2025	1311 ZHE
Q2605-01	V908	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D41	07/15/2025	1311 ZHE
Q2605-02	VB16135	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D41	07/15/2025	1311 ZHE
Q2605-03	VB15061	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D41	07/15/2025	1311 ZHE
Q2605-04	V897	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D41	07/15/2025	1311 ZHE
Q2609-04	710-C	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D41	07/15/2025	1311 ZHE
Q2609-08	709-C	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D41	07/15/2025	1311 ZHE
Q2614-06	HR-MCN-COMP-01	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	D41	07/15/2025	1311 ZHE

Date/Time 07-15-25 15:20

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Q2592-TCLP VOA

Date/Time 07-15-25 17:30

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

Prep Standard - Chemical Standard Summary

Order ID : Q2592

Test : TCLP VOA

Prepbatch ID :

Sequence ID/Qc Batch ID: vx071625,

Standard ID :

VP133174,VP133935,VP133953,VP134142,VP134149,VP134431,VP134478,VP134774,VP134775,VP134777,

Chemical ID :

V13391,V13706,V14290,V14438,V14440,V14505,V14506,V14527,V14528,V14613,V14626,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14708,V14712,V14713,V14748,V14752,V14808,V14822,V14843,V14921,V14929,V15028,V15029,V15030,W3112,

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
617	8260 Surrogate, 400PPM	VP133174	02/27/2025	08/27/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
03/04/2025								

FROM 0.40000ml of V13706 + 24.60000ml of V14613 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
247	8260 Internal Standard, 250PPM	VP133935	05/16/2025	11/12/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
05/21/2025								

FROM 0.25000ml of V14290 + 24.75000ml of V14921 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
218	BFB, 25PPM	VP133953	05/19/2025	11/09/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								05/21/2025

FROM 0.25000ml of V13391 + 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>
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

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>
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

<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	VP134431	06/20/2025	07/19/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								07/15/2025

FROM 1.00000ml of V15030 + 1.50000ml of V15028 + 1.50000ml of V15029 + 21.00000ml of V14921 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP134478	06/24/2025	08/09/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 06/26/2025

FROM 0.40000ml of V14843 + 1.00000ml of V14438 + 1.00000ml of V14440 + 1.00000ml of V14505 + 1.00000ml of V14506 + 1.00000ml of V14527 + 1.00000ml of V14528 + 1.00000ml of V14708 + 1.00000ml of V14748 + 1.00000ml of V14752 + 1.00000ml of V14808 + 1.00000ml of V14822 + 1.50000ml of V14712 + 1.50000ml of V14713 + 10.60000ml of V14929 = 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	VP134774	07/16/2025	07/17/2025	John Carlone	None	None	Maresh Dadoda 07/21/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP133953 = 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	VP134775	07/16/2025	07/17/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP133174 + 0.00500ml of VP134142 + 0.00800ml of VP133935 + 0.01250ml of VP134149 + 0.01250ml of VP134431 + 0.01250ml of VP134478 = 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	VP134777	07/16/2025	07/17/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP133174 + 0.00500ml of VP134142 + 0.00800ml of VP133935 + 0.01250ml of VP134149 + 0.01250ml of VP134431 + 0.01250ml of VP134478 = 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	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	02/27/2026	02/27/2025 / SAM	04/12/2023 / SAM	V13706

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 #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	06/23/2025 / SAM	08/15/2024 / SAM	V14438

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	06/23/2025 / SAM	08/15/2024 / SAM	V14440

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	12/23/2025	06/23/2025 / SAM	09/17/2024 / SAM	V14505

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	12/23/2025	06/23/2025 / SAM	09/17/2024 / SAM	V14506

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	12/23/2025	06/23/2025 / SAM	09/18/2024 / SAM	V14527

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	12/23/2025	06/23/2025 / SAM	09/18/2024 / SAM	V14528

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	08/27/2025	02/27/2025 / SAM	11/26/2024 / SAM	V14613

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	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	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	12/23/2025	06/23/2025 / SAM	12/17/2024 / SAM	V14708

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	12/23/2025	06/23/2025 / SAM	12/17/2024 / SAM	V14712

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	12/23/2025	06/23/2025 / SAM	12/17/2024 / SAM	V14713

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	12/23/2025	06/23/2025 / SAM	12/17/2024 / SAM	V14748

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	12/23/2025	06/23/2025 / SAM	12/17/2024 / SAM	V14752

CHEMICAL RECEIPT LOG BOOK

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	12/23/2025	06/23/2025 / SAM	01/08/2025 / SAM	V14808

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	12/23/2025	06/23/2025 / SAM	01/08/2025 / SAM	V14822

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	11/12/2025	05/12/2025 / SAM	01/21/2025 / SAM	V14843

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	11/12/2025	05/12/2025 / SAM	05/09/2025 / SAM	V14921

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 #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	061925	07/19/2025	06/20/2025 / SAM	06/20/2025 / SAM	V15028

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)	061925	07/19/2025	06/20/2025 / SAM	06/20/2025 / SAM	V15029

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	061925	07/19/2025	06/20/2025 / SAM	06/20/2025 / SAM	V15030

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

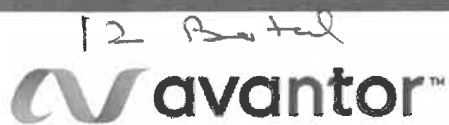
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



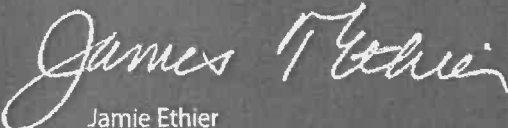
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality



Ree 03117/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(KMe)	Lot	DR	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information			
	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	NA	
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	NA	NA	
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	NA	
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	NA	
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)	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	NA	NA	
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	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	NA	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	NA	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	NA	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	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-85-3	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	20001.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	or-rat 2629mg/kg	
28. 2,2-Dichloropropane	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	
29. Trichloroethene	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	
30. 1,1,1-Trichloroethane	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	
31. 1,2-Dichloropropane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg	
32. 1,2-Dichloroethane	35161	112322	0.05	5.00	40015.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg	
33. 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-rat 3600mg/kg	
34. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	NA	NA	
35. 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	NA	
36. 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	NA	
37. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40017.6	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	
38. 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	
39. 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	
40. 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	
41. 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	
42. 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	
43. 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	
44. Bromobenzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	104-51-8	NA	or-rat 2699mg/kg	
45. 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	
46. 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	
47. 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	
48. 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	
49. 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	
50. Toluene	35162	050823	0.05	5.00	40008.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	NA	or-rat 1390mg/kg	
51. 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	
52. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	NA	or-rat 5g/kg	
53. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-6	NA	or-rat 5000mg/kg	
54. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg	
55. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-06-6	NA	NA	
56. 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	NA	or-rat 2240mg/kg	
57. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg	
58. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg	
59. 2-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 2100mg/kg	
60. 4-Chlorotoluene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg	
61. 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	NA	or-rat 1060mg/kg	
62. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	NA	or-rat 1060mg/kg	
63. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-46-7	75 ppm (450mg/m3/8H)	or-rat 500mg/kg	

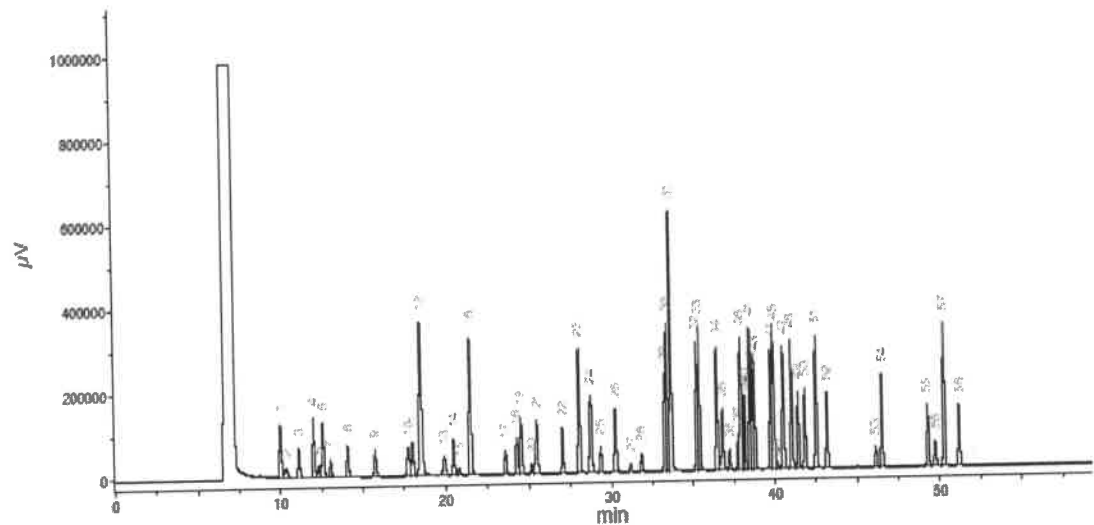


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetone	12.60
5	Isodimethane	12.91
6	Allyl chloride	13.56
7	Carbon disulfide/Methylene chloride	13.94
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	Hexamethylcyclotrisiloxane/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.46
21	Dibromomethane/2,2-Dichloropropane	27.07
22	cis-1,2-Dichloropropane	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	DR	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)	102366	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)	MKBP9041V	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 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)	H4002JK	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	20004.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg	
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	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	86-12-8	0.001 ppm	or-rat 170mg/kg	
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-93-4	20 ppm (8H)	or-rat 108mg/kg	
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg	
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 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-Dichloroethane	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	10081-01-5	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	or-rat 2699mg/kg	
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg	
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	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	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg	
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	or-rat 5000mg/kg	
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	NA	or-mus 1390mg/kg	
55. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	NA	or-rat 5g/kg	
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	23.0	108-87-8	NA	or-rat 5000mg/kg	
57. m-Xylene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	NA	or-rat 5000mg/kg	
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg	
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	NA	N/A	
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-6	NA	N/A	
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2240mg/kg	
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 2290mg/kg	
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	NA	or-rat 3900mg/kg	
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40003.3												

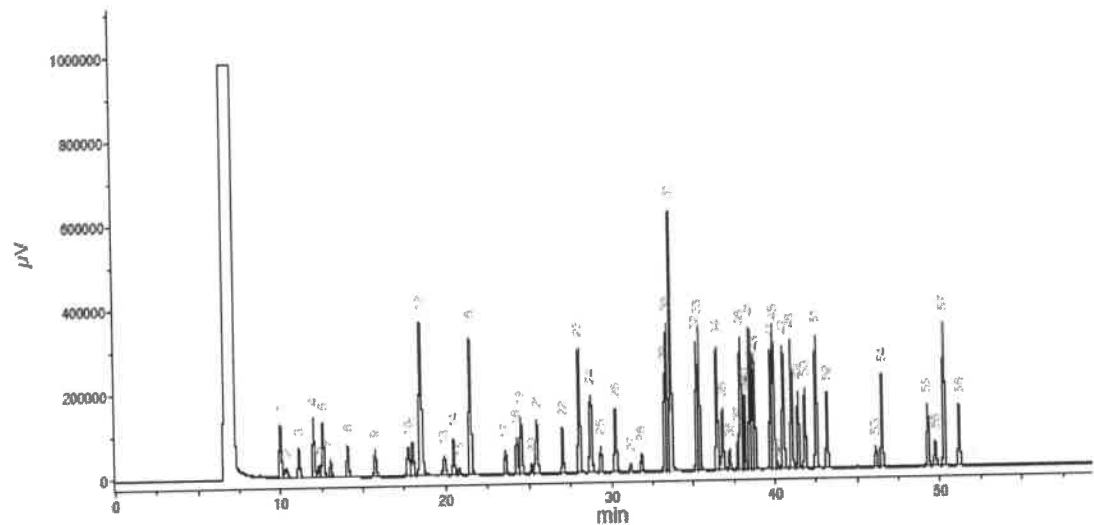


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.60
5	Iodomethane	12.91
6	Allyl chloride	12.96
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	Methoxyvinyltoluene/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.13
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.



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>	
Formulated By:	Justin Dippold
091424 DATE	
<i>Pedro L. Rentas</i>	
Reviewed By:	Pedro L. Rentas
091424 DATE	

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 10.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	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.

Abundance TIC: [BSB2]79005.D

Abundance 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



m/z--> 0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM

Dec 09/17/24

2 vlog



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
<https://Absolutestandards.com>

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Solvent(s): Lot#
Water 072324Q

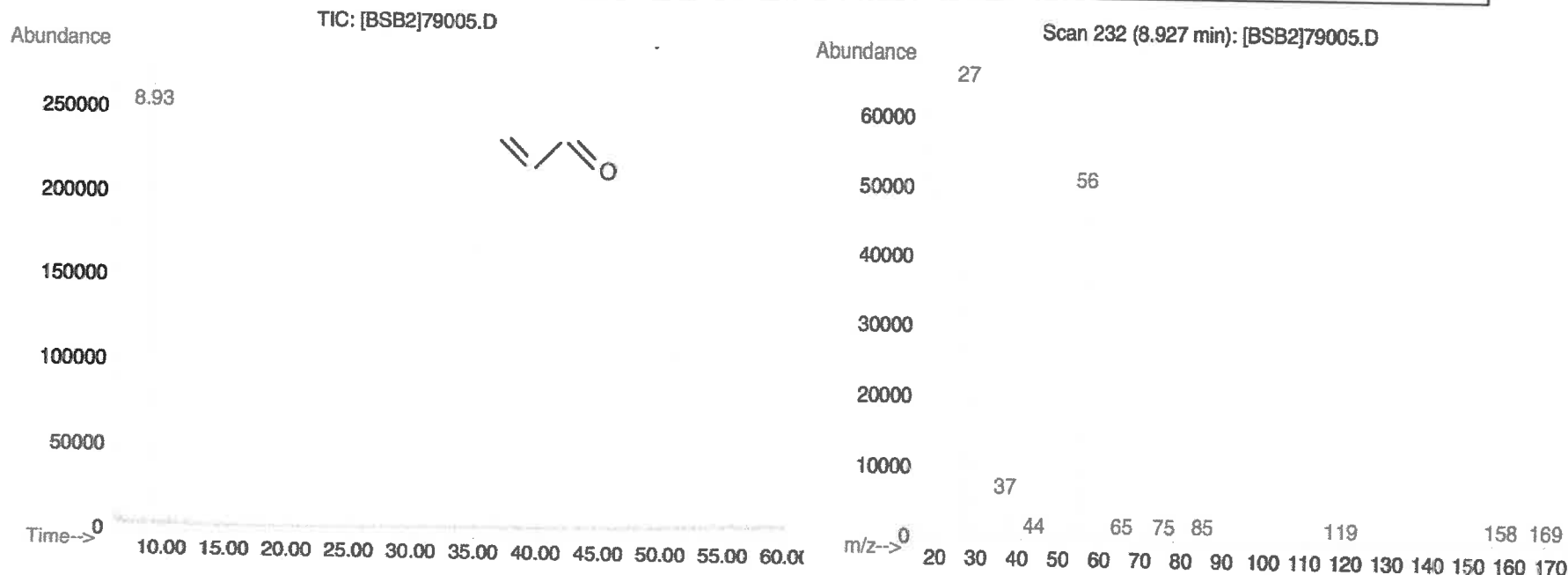
Expiration Date:	101424
Recommended Storage:	Refrigerate (4 °C)
Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Weight(s) shown below were combined and diluted to (mL):	10.0	0.001	Flask Uncertainty

		091424
Formulated By:	Justin Dippold	DATE
		091424
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05186	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM



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**

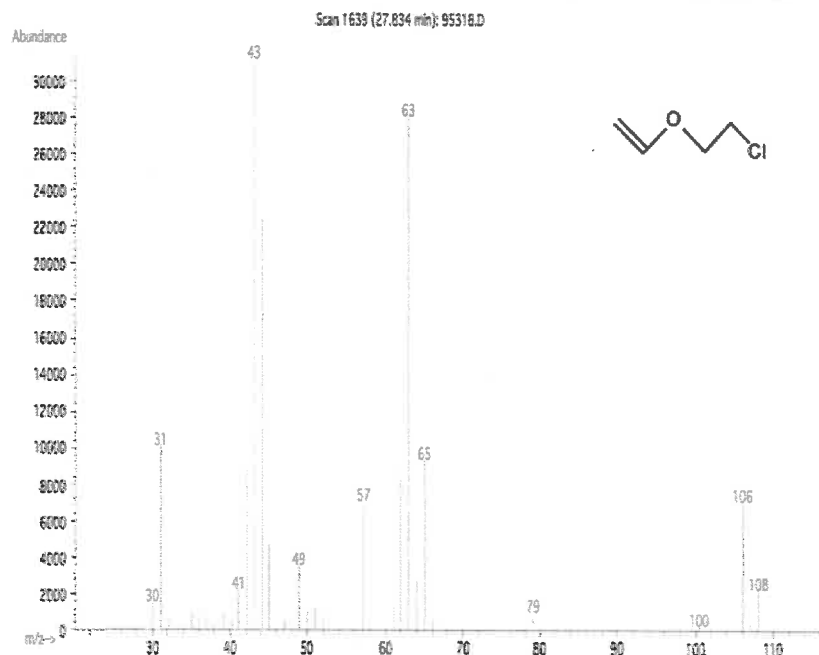
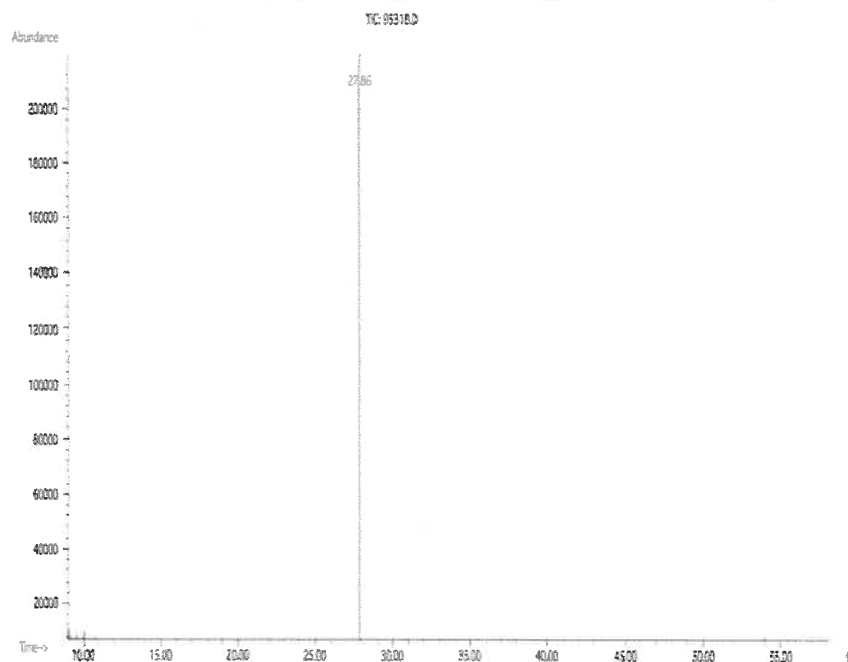
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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**

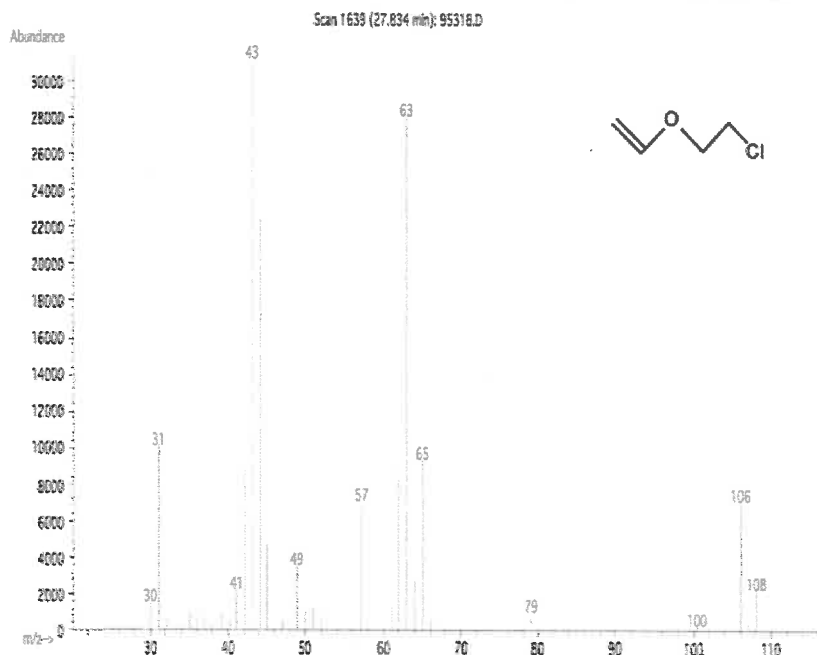
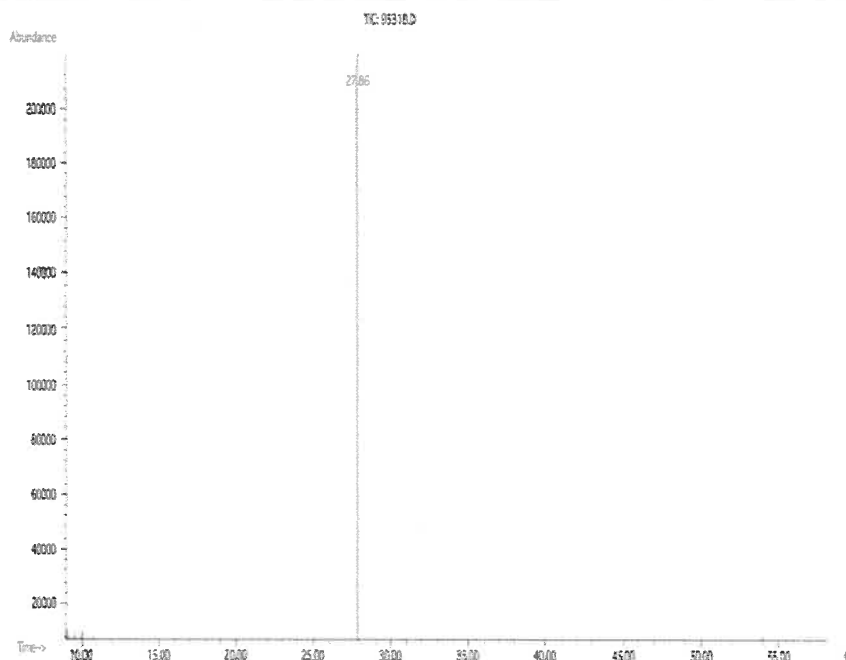
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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 Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



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- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
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Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

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

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Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

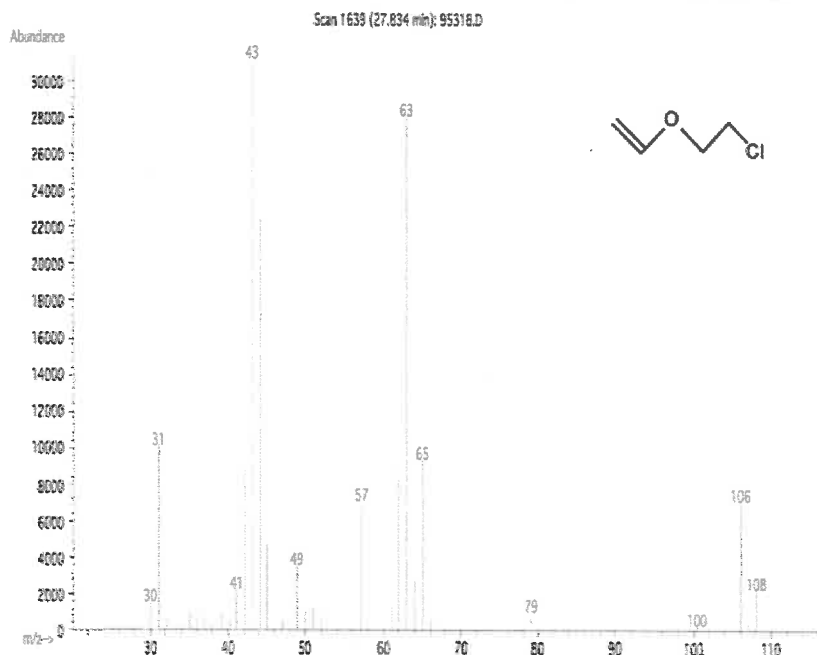
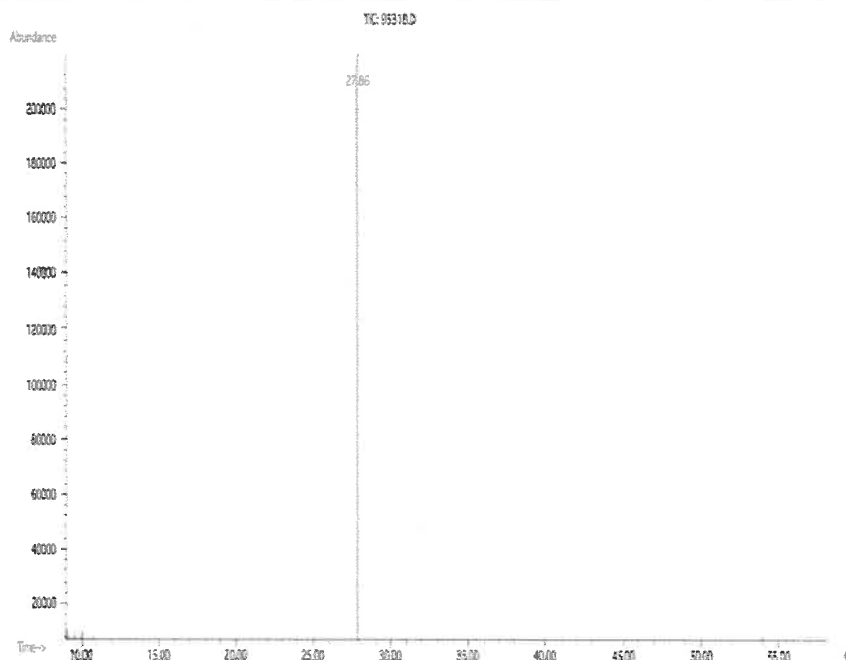
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1 > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

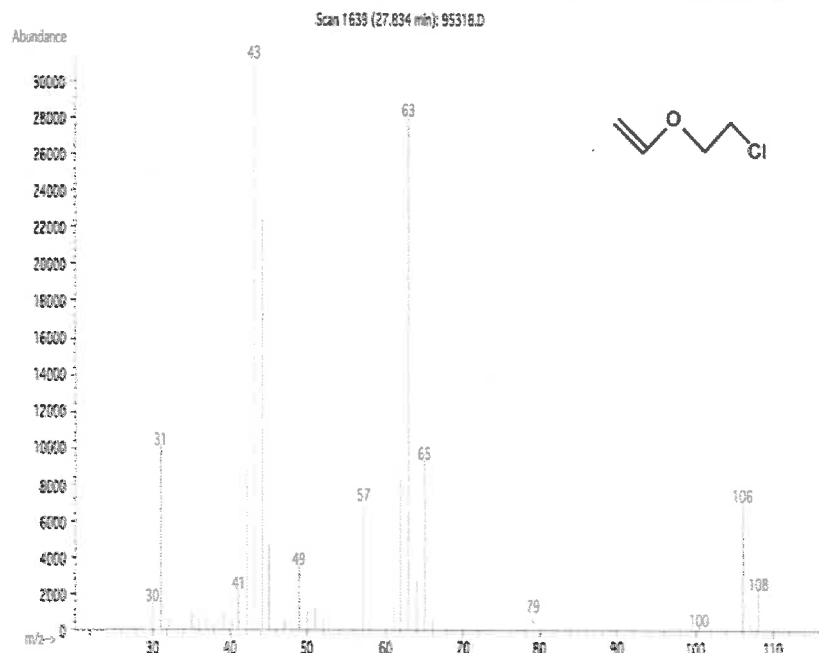
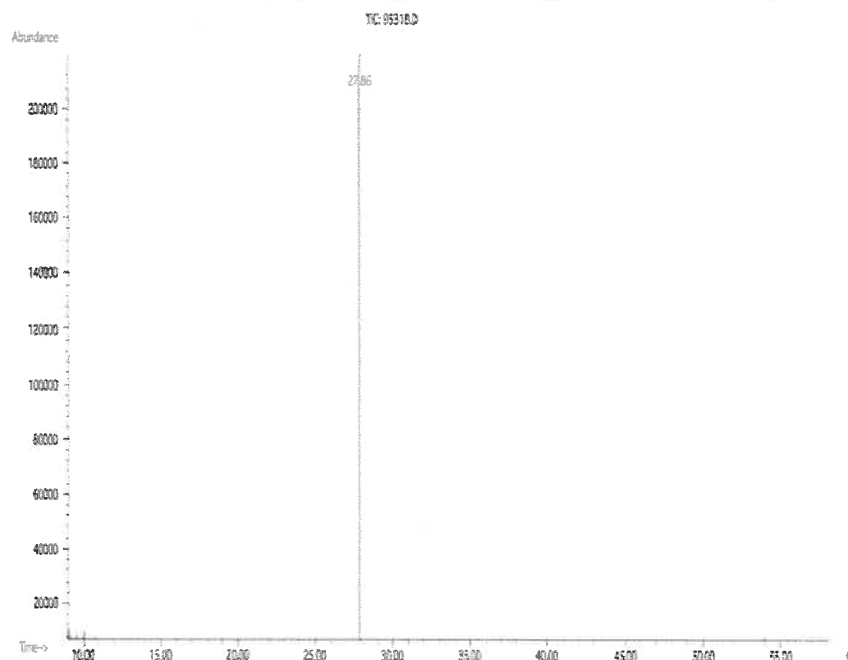
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
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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
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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.

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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.
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.		

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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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Hazardous decomposition products formed under fire conditions.	- Carbon oxides

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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.
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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.

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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:

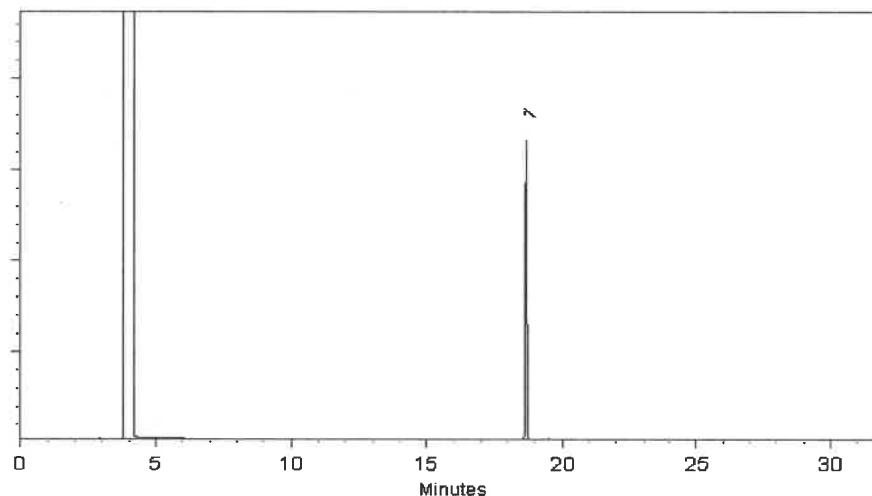
FID

Split Vent:

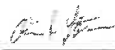
40 ml/min

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.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix
Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023

Balance: 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

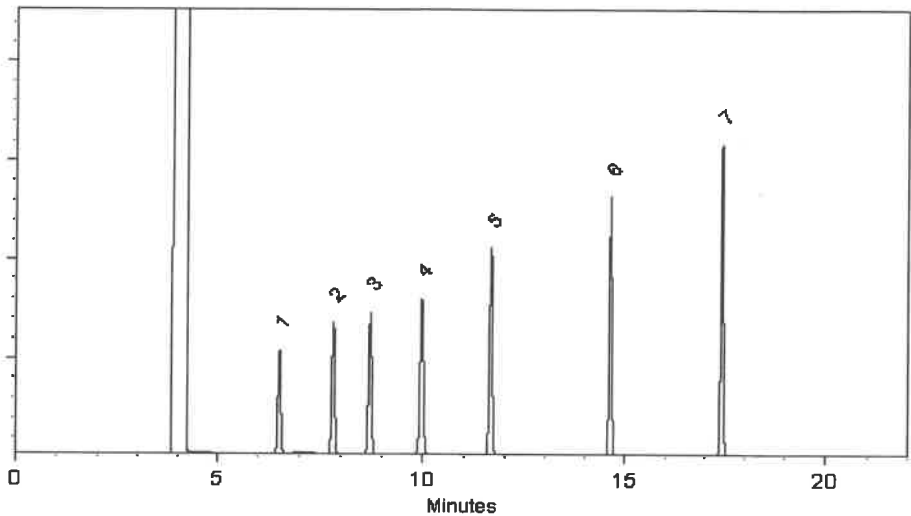
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

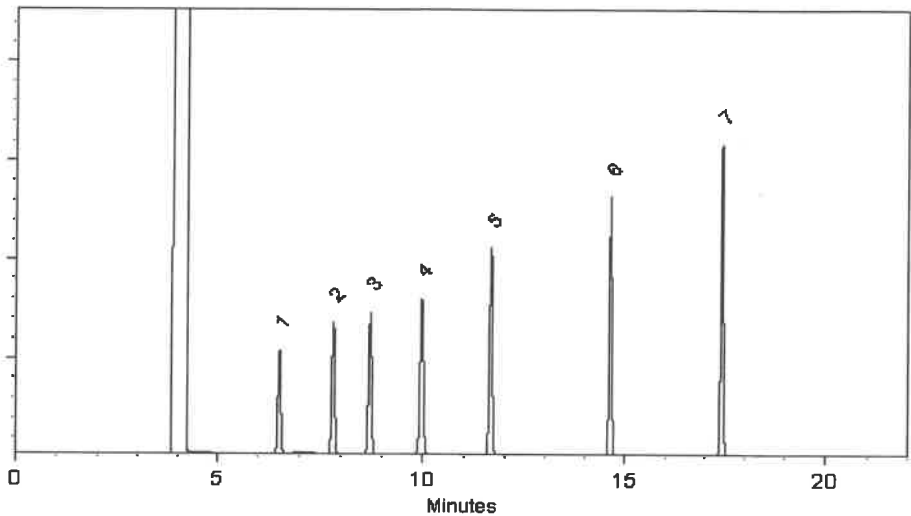
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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

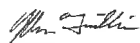
Expiration Date : April 30, 2027 **Storage:** 10°C or colder

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 Restek Review of SDS per April 18, 2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- 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:

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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.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

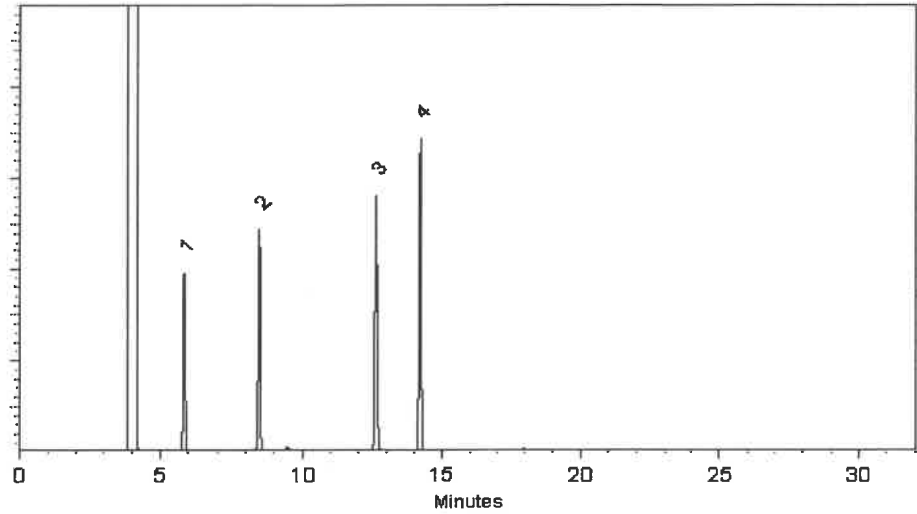
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

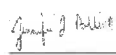


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

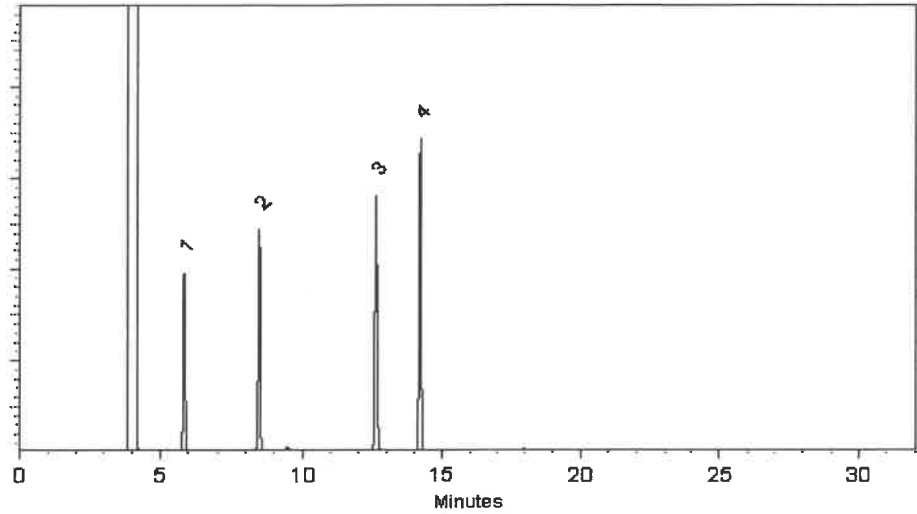
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

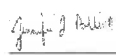


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

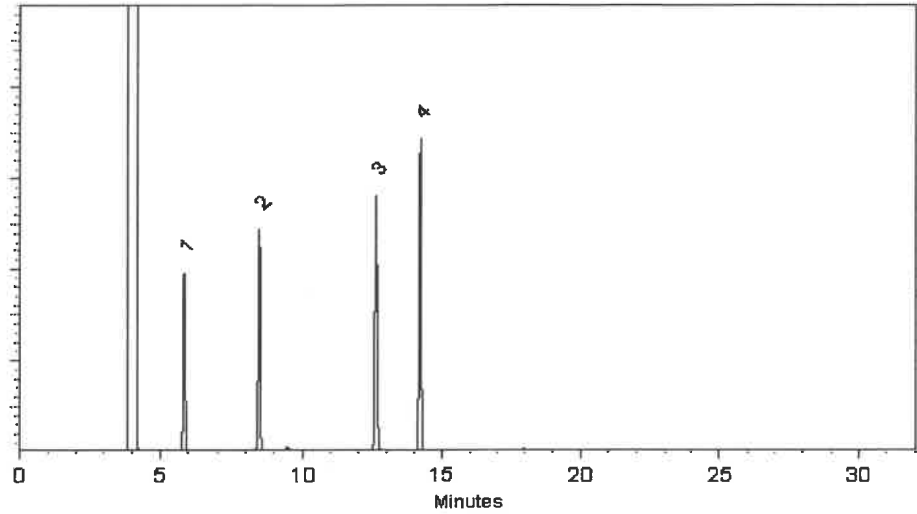
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

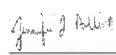


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Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Certified Uncertainty Value Notes:

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Manufacturing Notes:

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Handling Notes:

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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:

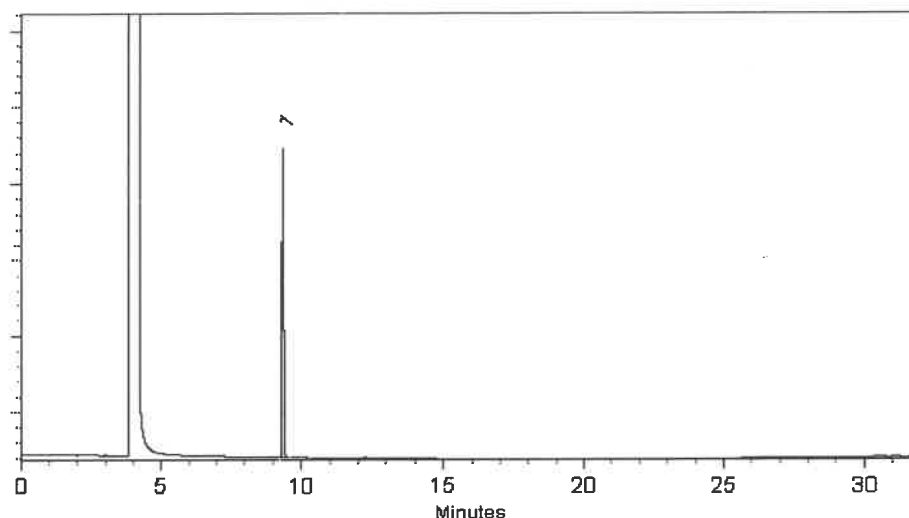
FID

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.



110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

www.restek.com

10 vial.
CERTIFIED REFERENCE MATERIAL

Dec: 12/09/24
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:

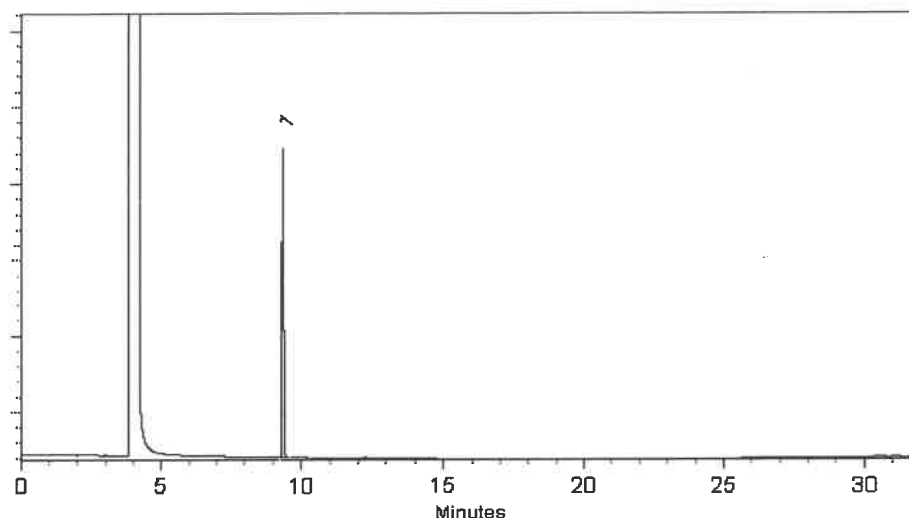
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- 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:

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$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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:

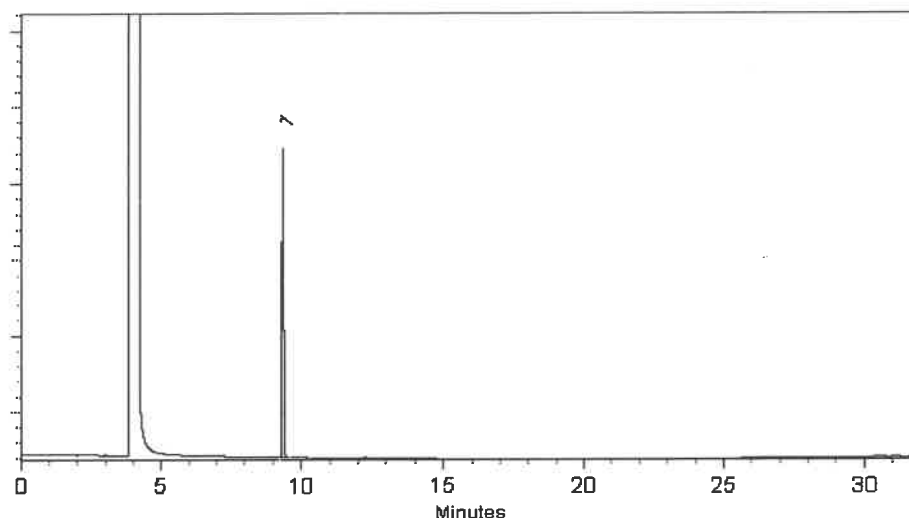
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- 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.

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
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V14667-5
V14676



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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:

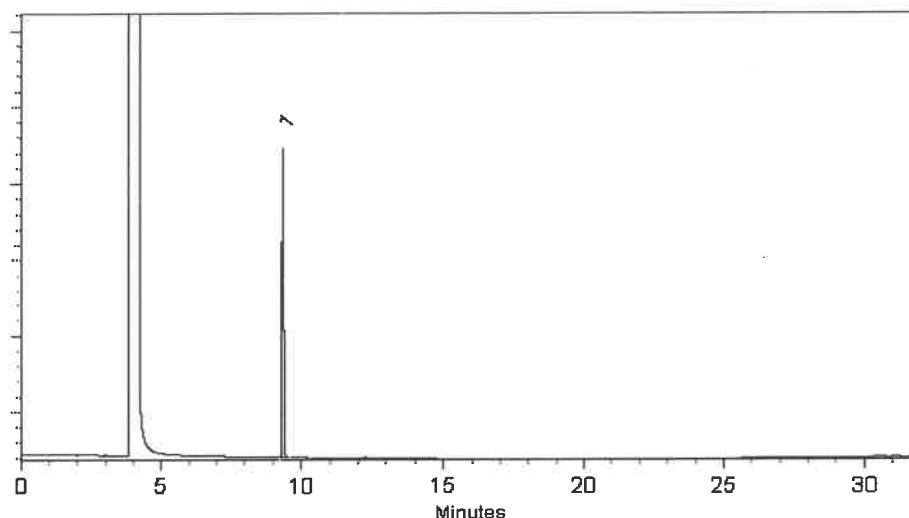
FID

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.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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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:

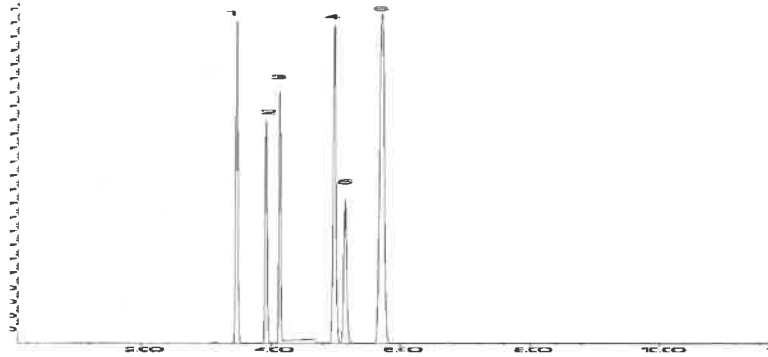
MSD

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.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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110 Benner Circle
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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:

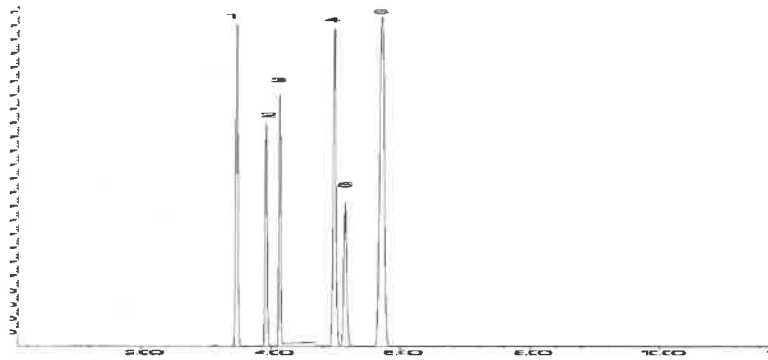
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



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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:

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- Purity of isomeric compounds is reported as the sum of the isomers.
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Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

✓ 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:

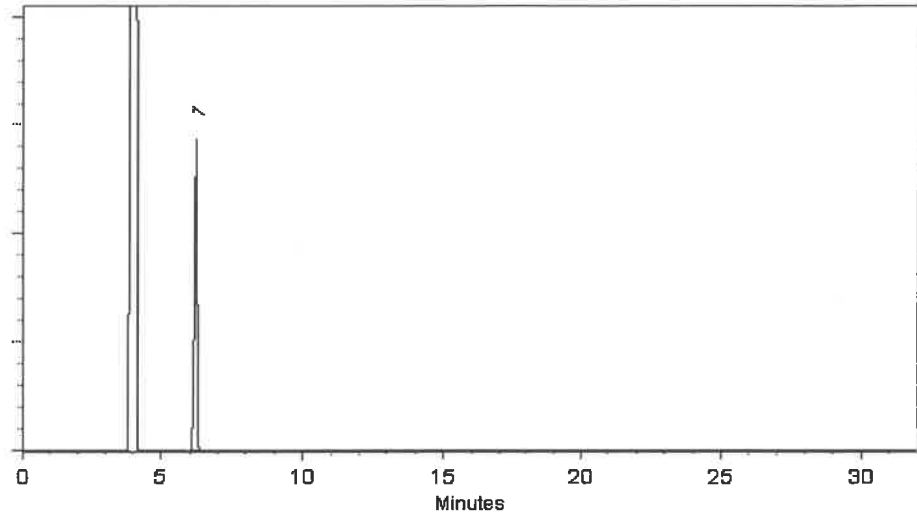
FID

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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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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:

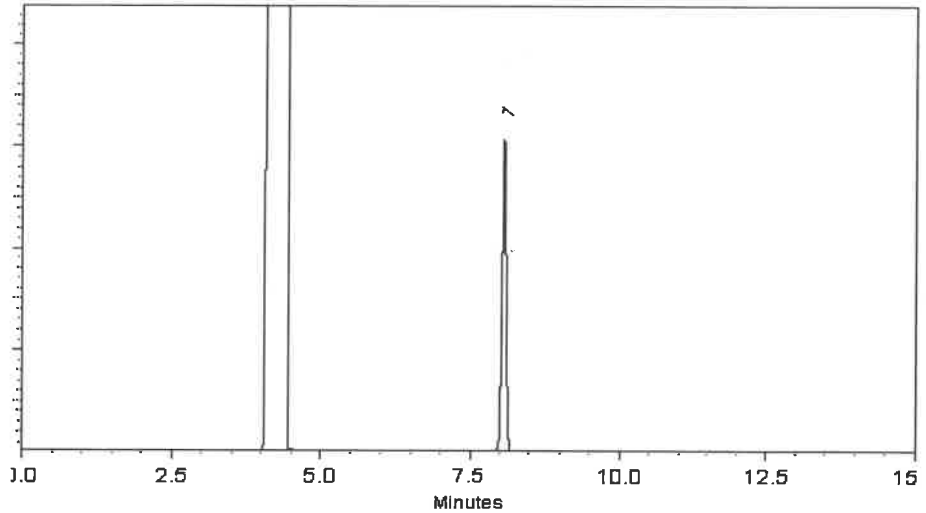
FID

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 Patten 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.

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$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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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%

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Column:

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Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

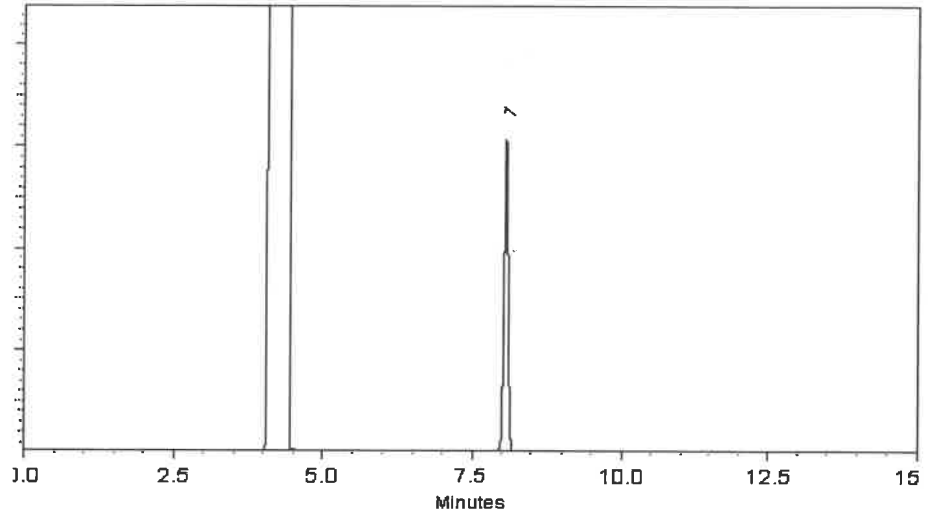
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pabon at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

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Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rev 05/09/25
Avantor™



V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rev 05/09/25
Avantor™



V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
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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



see 06/20/25 5 vial



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 061925
Description: AcroleinSolvent(s):
Water Lot# 041725Q

Expiration Date: 071925

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

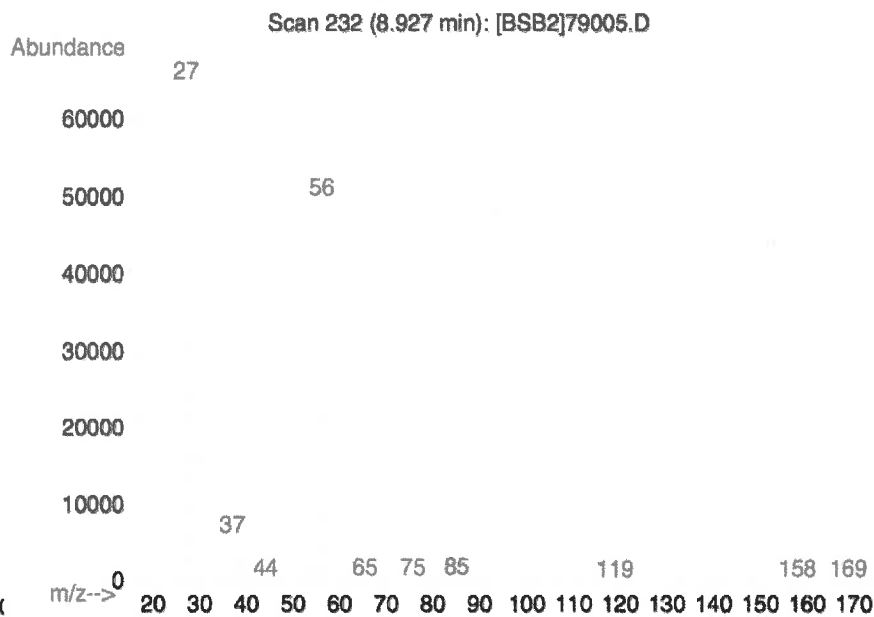
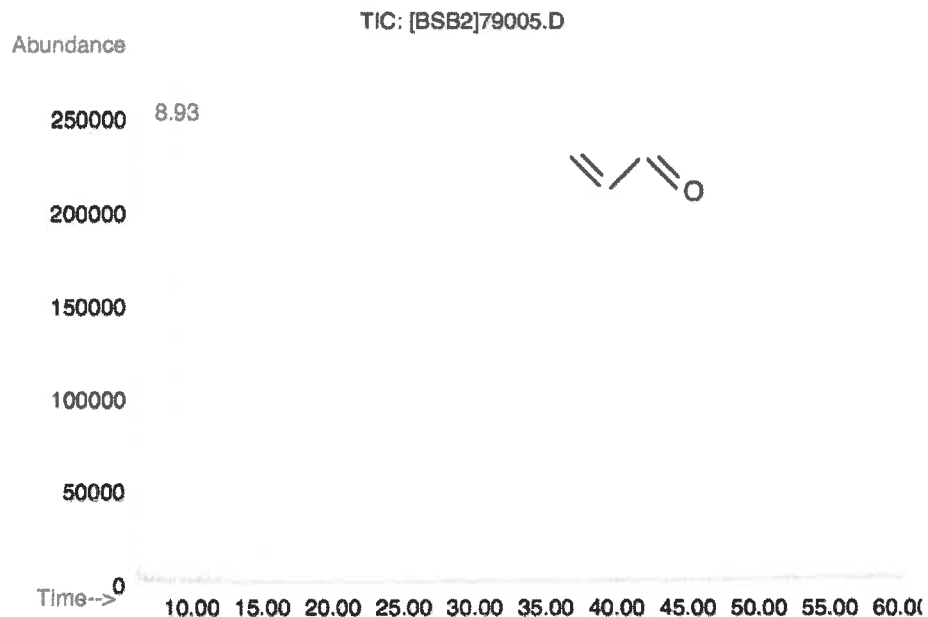
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

		061925
Formulated By:	Prashant Chauhan	DATE
		061925
Reviewed By:	Pedro L. Rentas	DATE

115028 to
115032

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



see 06/20/25 5 vial



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 061925
Description: AcroleinSolvent(s):
Water Lot# 041725Q

Expiration Date: 071925

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

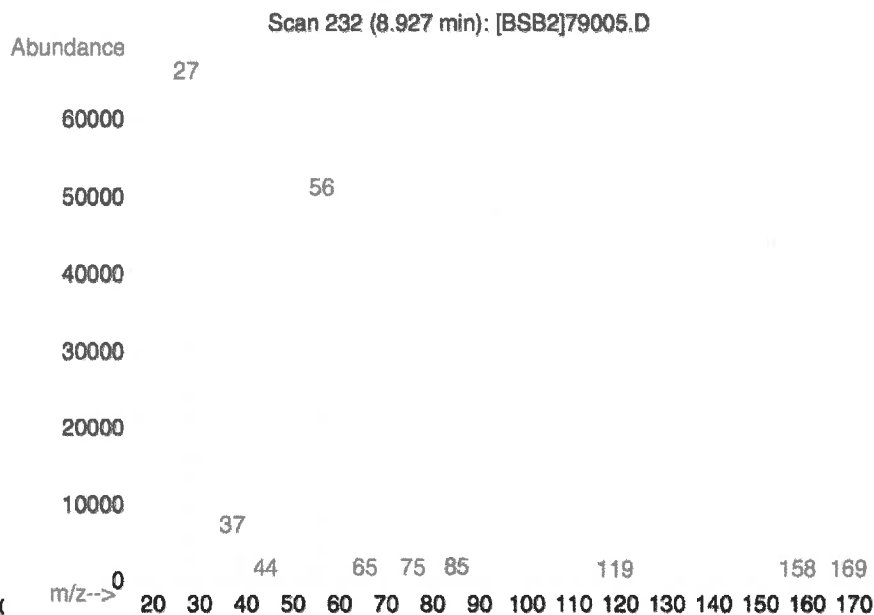
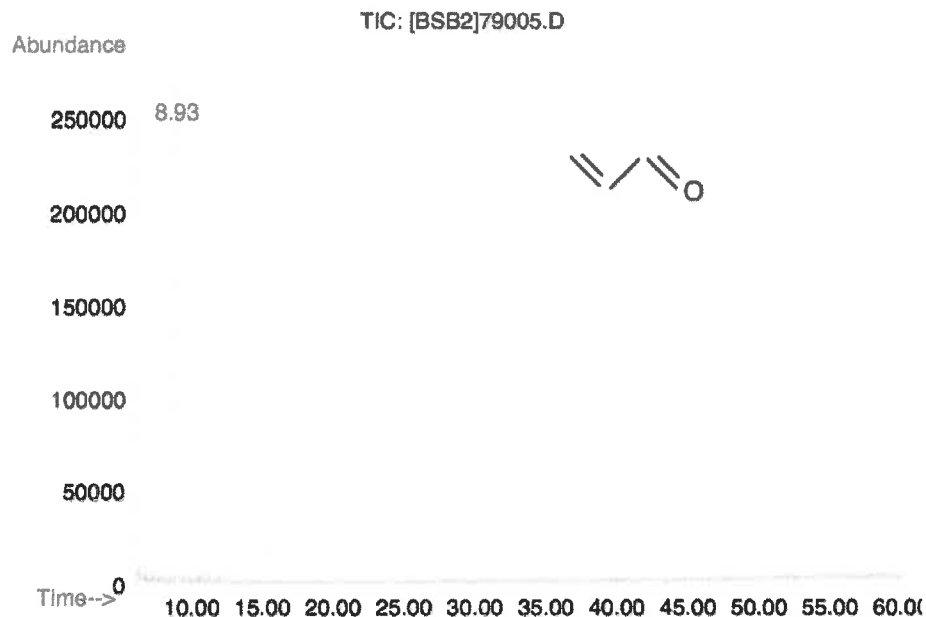
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		061925
Formulated By:	Prashant Chauhan	DATE
		061925
Reviewed By:	Pedro L. Rentas	DATE

115028 to
115032

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.



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- Rev 1.0, 2/25/2025



see 06/20/25 5 vial



CERTIFIED WEIGHT REPORT

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Water Lot#: 041725Q

Expiration Date: 071925

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NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

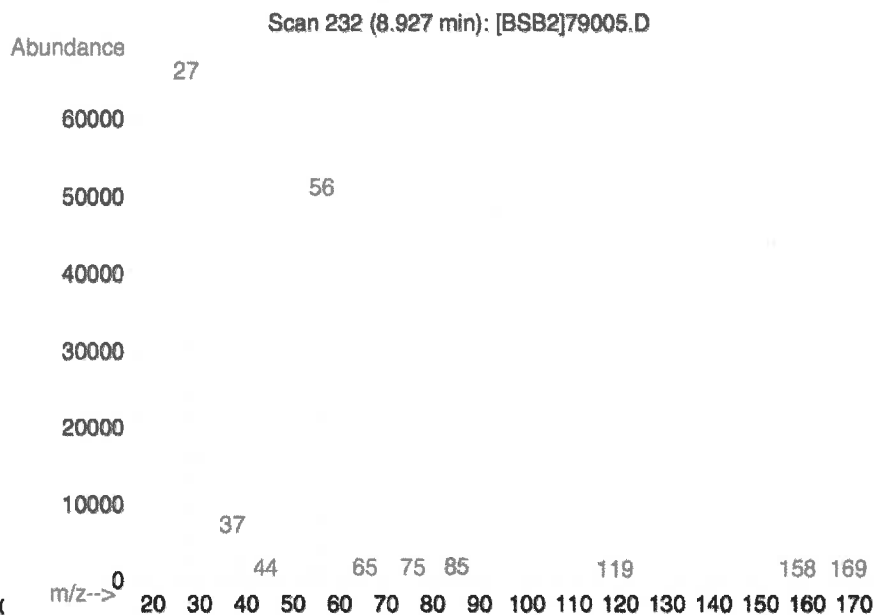
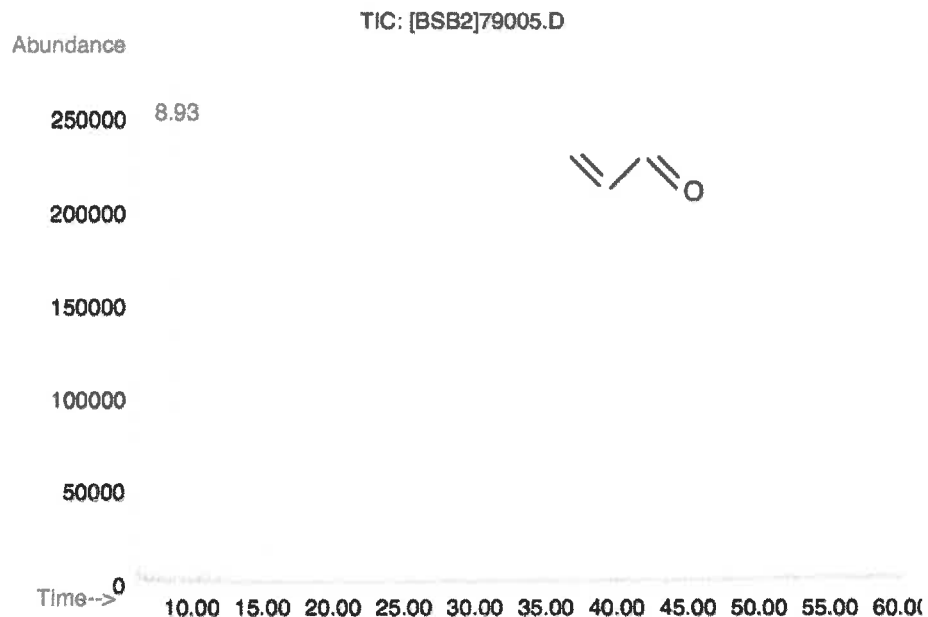
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		061925
Formulated By:	Prashant Chauhan	DATE
		061925
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115028 to
115032

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

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- Rev 1.0, 2/25/2025



SHIPPING DOCUMENTS

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CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: Parsons
ADDRESS: 301 Plainfield Road
CITY: Syracuse STATE: NY ZIP: 13212
ATTENTION: Zohar Lavy
PHONE: (732) 796-5536 FAX: -

PROJECT NAME: ConEd East River SI
PROJECT NO.: 454534 LOCATION: Manhattan
PROJECT MANAGER: Zohar Lavy
e-mail: Zohar.lavy@parsons.com
PHONE: (732) 796-5536 FAX: -

BILL TO: Parsons PO#: 454534
ADDRESS: 301 Plainfield Road
CITY: Syracuse STATE: NY ZIP: 13212
ATTENTION: Zohar Lavy PHONE: (732) 796-5536

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) 5-day rush DAYS*
HARDCOPY (DATA PACKAGE): 5-day rush DAYS*
EDD: 5-day rush DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data) ☐ Other _____
☐ EDD FORMAT _____

1. VOCs, SVOCs
2. TAL metals
3. PCBs, TPH
4. TAP WIS, TAP SVOCs
5. TCIP metals
6. TAP pest, TAP herb
7. Ignitability, reactivity
8. Corrosivity, pH
9.

PRESERVATIVES

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HNO3 E-ICE
C-H2SO4 F-OTHER

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		E	E	E	E	E	E	E	E	E	
1.	WC-Soil-20250711	S	X		7/11/25	1230	9	X	X	X	X	X	X	X	X	X	
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>EMMA SAVER</u>	DATE/TIME: <u>1440</u> <u>7/11/25</u>	RECEIVED BY: <u>[Signature]</u> <u>1440</u> <u>7-11-25</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.1</u> °C Comments: <u>Include Zohar.lavy@parsons.com and Kirsten.valentin@parsons.com</u> <u>on all data</u>
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.	
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: <u>1637</u> <u>7-11-25</u>	RECEIVED BY: 3.	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2592 PARS02	Order Date : 7/11/2025 3:05:25 PM	Project Mgr :
Client Name : PARSONS Engineering of I	Project Name : Con Edison - East River Sit	Report Type : NYS ASP B
Client Contact : Zohar Lavy	Receive DateTime : 7/11/2025 ~~12:00:00 AM~~ 04:39:00 PM	EDD Type : NYSDEC EDD V-3
Invoice Name : PARSONS Engineering of I	Purchase Order :	Hard Copy Date :
Invoice Contact : Zohar Lavy		Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2592-01	WC-SOIL-20250711	Solid	07/11/2025	12:30		VOCMS Group1	8260D		5 Bus. Days

DP 07/15/2025

Relinquished By :

Date / Time : 7/14/25 0725

SAMPLES RECEIVED ON 7/11/25 @ 1440
SAMPLES PLACED IN SM-REF-2

Received By :

Date / Time : 07/14/25 10:00

Storage Area : VOA Refridgerator Room

28#6
F22