

**DATA PACKAGE
VOLATILE ORGANICS**

PROJECT NAME : CON ED UTEN MOUNT VERNON, NY

**CDM SMITH
110 Fieldcrest Ave
Raritan Center
Edison, NJ - 08837
Phone No: 732-225-7000**

**ORDER ID : Q2230
ATTENTION : Marcie Ann Encinas**



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q2230

Project ID : Con Ed UTEN Mount Vernon, NY

Client : CDM Smith

Lab Sample Number

Q2230-01
Q2230-02
Q2230-03
Q2230-04
Q2230-05
Q2230-06

Client Sample Number

FB-060425
GW-MW01-060425
GW-MW01-060425MS
GW-MW01-060425MSD
GW-MW901-060425
TB060425

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

Signature :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:38 am, Jun 17, 2025

Date: 6/17/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

CDM Smith

Project Name: Con Ed UTEN Mount Vernon, NY

Project # N/A

Order ID # Q2230

Test Name: VOCMS Group3

A. Number of Samples and Date of Receipt:

6 Water samples were received on 06/04/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOCMS Group3 and VOCMS Group3. This data package contains results for VOCMS Group3.

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 VOCMS Group3 was based on method 8260D.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS {Q2230-03MS} with File ID: VX046641.D recoveries met the requirements for all compounds except for 1,2,4-Trimethylbenzene[148%], Isopropylbenzene[123%], N-propylbenzene[122%], tert-Butylbenzene[124%], Toluene[121%], m/p-Xylenes[134%] and o-Xylene[149%] due to matrix interference.

The MSD {Q2230-04MSD} with File ID: VX046642.D recoveries met the acceptable requirements except for 1,2,4-Trimethylbenzene[168%] and o-Xylenes [151%] due to matrix interference.

The RPD met criteria.

The Blank Spike met requirements for all samples.

The Blank Spike Duplicate met requirements for all samples.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

E. Additional Comments:

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_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 11:38 am, Jun 17, 2025

DATA REPORTING QUALIFIERS- ORGANIC

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

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This 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: Q2230

MATRIX: Water

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements. The Continuous Calibration met the requirements.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The MS {Q2230-03MS} with File ID: VX046641.D recoveries met the requirements for all compounds except for 1,2,4-Trimethylbenzene[148%], Isopropylbenzene[123%], N-propylbenzene[122%], tert-Butylbenzene[124%], Toluene[121%], m/p-Xylenes[134%] and o-Xylene[149%] due to matrix interference. The MSD {Q2230-04MSD} with File ID: VX046642.D recoveries met the acceptable requirements except for 1,2,4-Trimethylbenzene[168%] and o-Xylenes [151%] due to matrix interference.		✓	
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:

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.

REVIEWED

QA REVIEW

By Sohil Jodhani, QA/QC Director at 11:32 am, Jun 17, 2025

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2230

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: 06/17/2025

LAB CHRONICLE

OrderID:	Q2230	OrderDate:	6/4/2025 4:40:00 PM
Client:	CDM Smith	Project:	Con Ed UTEN Mount Vernon, NY
Contact:	Marcie Ann Encinas	Location:	N31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2230-01	FB-060425	Water	VOCMS Group3	8260-Low	06/04/25		06/10/25	06/04/25
Q2230-02	GW-MW01-060425	Water	VOCMS Group3	8260-Low	06/04/25		06/10/25	06/04/25
Q2230-05	GW-MW901-060425	Water	VOCMS Group3	8260-Low	06/04/25		06/10/25	06/04/25
Q2230-06	TB060425	Water	VOCMS Group3	8260-Low	06/04/25		06/10/25	06/04/25

Hit Summary Sheet
SW-846

SDG No.: Q2230
Client: CDM Smith

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID: GW-MW01-060425								
Q2230-02	GW-MW01-060425	Water	Benzene	0.36	J	0.15	1.00	ug/L
Q2230-02	GW-MW01-060425	Water	Toluene	1.60		0.14	1.00	ug/L
Q2230-02	GW-MW01-060425	Water	Ethyl Benzene	3.80		0.13	1.00	ug/L
Q2230-02	GW-MW01-060425	Water	Total Xylenes	36.1		0.36	3.00	ug/L
Q2230-02	GW-MW01-060425	Water	Isopropylbenzene	1.30		0.12	1.00	ug/L
Q2230-02	GW-MW01-060425	Water	n-propylbenzene	2.50		0.13	1.00	ug/L
Q2230-02	GW-MW01-060425	Water	1,3,5-Trimethylbenzene	7.40		0.15	1.00	ug/L
Q2230-02	GW-MW01-060425	Water	1,2,4-Trimethylbenzene	26.0		0.14	1.00	ug/L
Q2230-02	GW-MW01-060425	Water	sec-Butylbenzene	1.00		0.13	1.00	ug/L
Q2230-02	GW-MW01-060425	Water	n-Butylbenzene	1.40		0.15	1.00	ug/L
			Total Voc :	81.5				
			Total Concentration:	81.5				
Client ID: GW-MW901-060425								
Q2230-05	GW-MW901-06042	Water	Benzene	0.32	J	0.15	1.00	ug/L
Q2230-05	GW-MW901-06042	Water	Toluene	1.60		0.14	1.00	ug/L
Q2230-05	GW-MW901-06042	Water	Ethyl Benzene	3.70		0.13	1.00	ug/L
Q2230-05	GW-MW901-06042	Water	Total Xylenes	34.6		0.36	3.00	ug/L
Q2230-05	GW-MW901-06042	Water	Isopropylbenzene	1.20		0.12	1.00	ug/L
Q2230-05	GW-MW901-06042	Water	n-propylbenzene	2.30		0.13	1.00	ug/L
Q2230-05	GW-MW901-06042	Water	1,3,5-Trimethylbenzene	6.80		0.15	1.00	ug/L
Q2230-05	GW-MW901-06042	Water	1,2,4-Trimethylbenzene	24.8		0.14	1.00	ug/L
Q2230-05	GW-MW901-06042	Water	sec-Butylbenzene	0.90	J	0.13	1.00	ug/L
Q2230-05	GW-MW901-06042	Water	n-Butylbenzene	1.20		0.15	1.00	ug/L
			Total Voc :	77.4				
			Total Concentration:	77.4				



QC SUMMARY

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Surrogate Summary

SDG No.: **Q2230**

Client: **CDM Smith**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2230-01	FB-060425	1,2-Dichloroethane-d4	50	49.6	99	74	125
		Dibromofluoromethane	50	50.3	101	75	124
		Toluene-d8	50	54.7	109	86	113
		4-Bromofluorobenzene	50	54.0	108	77	121
Q2230-02	GW-MW01-060425	1,2-Dichloroethane-d4	50	49.8	100	74	125
		Dibromofluoromethane	50	49.9	100	75	124
		Toluene-d8	50	54.2	108	86	113
		4-Bromofluorobenzene	50	56.1	112	77	121
Q2230-03MS	GW-MW01-060425MS	1,2-Dichloroethane-d4	50	47.5	95	74	125
		Dibromofluoromethane	50	52.2	104	75	124
		Toluene-d8	50	51.1	102	86	113
		4-Bromofluorobenzene	50	50.9	102	77	121
Q2230-04MSD	GW-MW01-060425MSD	1,2-Dichloroethane-d4	50	45.9	92	74	125
		Dibromofluoromethane	50	50.4	101	75	124
		Toluene-d8	50	50.2	100	86	113
		4-Bromofluorobenzene	50	51.1	102	77	121
Q2230-05	GW-MW901-060425	1,2-Dichloroethane-d4	50	50.2	100	74	125
		Dibromofluoromethane	50	49.9	100	75	124
		Toluene-d8	50	54.3	109	86	113
		4-Bromofluorobenzene	50	55.6	111	77	121
Q2230-06	TB060425	1,2-Dichloroethane-d4	50	50.3	101	74	125
		Dibromofluoromethane	50	50.6	101	75	124
		Toluene-d8	50	54.5	109	86	113
		4-Bromofluorobenzene	50	55.3	111	77	121
VX0610WBL01	VX0610WBL01	1,2-Dichloroethane-d4	50	50.1	100	74	125
		Dibromofluoromethane	50	50.1	100	75	124
		Toluene-d8	50	54.3	109	86	113
		4-Bromofluorobenzene	50	54.8	110	77	121
VX0610WBS01	VX0610WBS01	1,2-Dichloroethane-d4	50	47.4	95	74	125
		Dibromofluoromethane	50	53.0	106	75	124
		Toluene-d8	50	51.5	103	86	113
		4-Bromofluorobenzene	50	53.1	106	77	121
VX0611WBL02	VX0611WBL02	1,2-Dichloroethane-d4	50	49.7	99	74	125
		Dibromofluoromethane	50	50.4	101	75	124
		Toluene-d8	50	54.3	109	86	113
		4-Bromofluorobenzene	50	55.3	111	77	121
VX0611WBS02	VX0611WBS02	1,2-Dichloroethane-d4	50	44.0	88	74	125
		Dibromofluoromethane	50	47.8	96	75	124
		Toluene-d8	50	47.2	94	86	113
		4-Bromofluorobenzene	50	48.5	97	77	121

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2230

Client: CDM Smith

Analytical Method: SW8260-Low

Limits											
Parameter	Spike	Sample Result	Result	Units	Rec	Qual	RPD	RPD Qual	Low	High	RPD
Lab Sample ID :	Q2230-03MS	Client Sample ID :	GW-MW01-060425MS					Datafile :	VX046641.D		
Benzene	50	0.36	58.1	ug/L	115				81	128	
Toluene	50	1.60	62.2	ug/L	121	*			85	115	
Ethyl Benzene	50	3.80	65.8	ug/L	124				81	128	
m/p-Xylenes	100	16.1	150	ug/L	134	*			69	129	
o-Xylene	50	20.0	94.6	ug/L	149	*			75	127	
Isopropylbenzene	50	1.30	62.9	ug/L	123	*			76	121	
N-propylbenzene	50	2.50	63.6	ug/L	122	*			79	116	
1,3,5-Trimethylbenzene	50	7.40	72.5	ug/L	130				40	169	
tert-Butylbenzene	50	0	61.8	ug/L	124	*			80	116	
1,2,4-Trimethylbenzene	50	26.0	100	ug/L	148	*			81	116	
Sec-butylbenzene	50	1.00	60.8	ug/L	120				70	122	
p-Isopropyltoluene	50	0	60.8	ug/L	122				64	124	
n-Butylbenzene	50	1.40	60.9	ug/L	119				53	140	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2230

Client: CDM Smith

Analytical Method: SW8260-Low

Parameter	Spike	Sample	Result	Units	Rec		RPD	RPD	Limits		
		Result			Qual	Qual		Low	High	RPD	
Lab Sample ID :	Q2230-04MSD	Client Sample ID :	GW-MW01-060425MSD					Datafile :	VX046642.D		
Benzene	50	0.36	50.7	ug/L	101		13		81	128	20
Toluene	50	1.60	54.6	ug/L	106		13		85	115	20
Ethyl Benzene	50	3.80	58.5	ug/L	109		13		81	128	20
m/p-Xylenes	100	16.1	140	ug/L	124		8		69	129	20
o-Xylene	50	20.0	95.5	ug/L	151	*	1		75	127	20
Isopropylbenzene	50	1.30	53.5	ug/L	104		17		76	121	20
N-propylbenzene	50	2.50	55.2	ug/L	105		15		79	116	20
1,3,5-Trimethylbenzene	50	7.40	66.8	ug/L	119		9		40	169	20
tert-Butylbenzene	50	0	52.1	ug/L	104		17		80	116	20
1,2,4-Trimethylbenzene	50	26.0	110	ug/L	168	*	13		81	116	20
Sec-butylbenzene	50	1.00	52.0	ug/L	102		16		70	122	20
p-Isopropyltoluene	50	0	51.8	ug/L	104		16		64	124	20
n-Butylbenzene	50	1.40	53.5	ug/L	104		13		53	140	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2230

Client: CDM Smith

Analytical Method: SW8260-Low

Datafile : VX046589.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0610WBS01	Benzene	20	21.0	ug/L	105			82	109	
	Toluene	20	21.2	ug/L	106			82	110	
	Ethyl Benzene	20	20.3	ug/L	102			83	109	
	m/p-Xylenes	40	41.6	ug/L	104			82	110	
	o-Xylene	20	21.1	ug/L	106			83	109	
	Isopropylbenzene	20	20.2	ug/L	101			83	112	
	N-propylbenzene	20	20.0	ug/L	100			83	112	
	1,3,5-Trimethylbenzene	20	20.5	ug/L	103			85	112	
	tert-Butylbenzene	20	20.4	ug/L	102			83	112	
	1,2,4-Trimethylbenzene	20	20.8	ug/L	104			85	111	
	Sec-butylbenzene	20	20.5	ug/L	103			81	114	
	p-Isopropyltoluene	20	20.2	ug/L	101			78	116	
	n-Butylbenzene	20	19.9	ug/L	100			75	115	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2230

Client: CDM Smith

Analytical Method: SW8260-Low

Datafile : VX046639.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0611WBS02	Benzene	20	19.6	ug/L	98			82	109	
	Toluene	20	20.2	ug/L	101			82	110	
	Ethyl Benzene	20	19.2	ug/L	96			83	109	
	m/p-Xylenes	40	40.1	ug/L	100			82	110	
	o-Xylene	20	20.1	ug/L	101			83	109	
	Isopropylbenzene	20	19.1	ug/L	96			83	112	
	N-propylbenzene	20	18.8	ug/L	94			83	112	
	1,3,5-Trimethylbenzene	20	18.9	ug/L	95			85	112	
	tert-Butylbenzene	20	19.2	ug/L	96			83	112	
	1,2,4-Trimethylbenzene	20	19.2	ug/L	96			85	111	
	Sec-butylbenzene	20	19.3	ug/L	97			81	114	
	p-Isopropyltoluene	20	18.9	ug/L	95			78	116	
	n-Butylbenzene	20	18.3	ug/L	92			75	115	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0610WBL01

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM Case No.: Q2230

SAS No.: Q2230 SDG NO.: Q2230

Lab File ID: VX046588.D

Lab Sample ID: VX0610WBL01

Date Analyzed: 06/10/2025

Time Analyzed: 09:57

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
VX0610WBS01	VX0610WBS01	VX046589.D	06/10/2025
FB-060425	Q2230-01	VX046594.D	06/10/2025
TB060425	Q2230-06	VX046595.D	06/10/2025
GW-MW901-060425	Q2230-05	VX046601.D	06/10/2025
GW-MW01-060425	Q2230-02	VX046602.D	06/10/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0611WBL02

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM Case No.: Q2230

SAS No.: Q2230 SDG NO.: Q2230

Lab File ID: VX046637.D

Lab Sample ID: VX0611WBL02

Date Analyzed: 06/11/2025

Time Analyzed: 15:14

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
VX0611WBS02	VX0611WBS02	VX046639.D	06/11/2025
GW-MW01-060425MS	Q2230-03MS	VX046641.D	06/11/2025
GW-MW01-060425MSD	Q2230-04MSD	VX046642.D	06/11/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2230 SAS No.: Q2230 SDG NO.: Q2230
 Lab File ID: VX046516.D BFB Injection Date: 06/06/2025
 Instrument ID: MSVOA_X BFB Injection Time: 08:47
 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	21
75	30.0 - 60.0% of mass 95	56.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.6 (1) 1
174	50.0 - 100.0% of mass 95	65.2
175	5.0 - 9.0% of mass 174	5 (7.7) 1
176	95.0 - 101.0% of mass 174	62.7 (96.1) 1
177	5.0 - 9.0% of mass 176	4.2 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VX046518.D	06/06/2025	09:42
VSTDIC020	VSTDIC020	VX046519.D	06/06/2025	10:18
VSTDIC050	VSTDIC050	VX046520.D	06/06/2025	10:40
VSTDIC100	VSTDIC100	VX046521.D	06/06/2025	11:02
VSTDIC150	VSTDIC150	VX046522.D	06/06/2025	11:25
VSTDIC001	VSTDIC001	VX046524.D	06/06/2025	12:57

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2230 SAS No.: Q2230 SDG NO.: Q2230
 Lab File ID: VX046585.D BFB Injection Date: 06/10/2025
 Instrument ID: MSVOA_X BFB Injection Time: 08:36
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.5
75	30.0 - 60.0% of mass 95	55
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 100.0% of mass 95	70.1
175	5.0 - 9.0% of mass 174	5.3 (7.6) 1
176	95.0 - 101.0% of mass 174	68.4 (97.6) 1
177	5.0 - 9.0% of mass 176	4.6 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX046586.D	06/10/2025	09:07
VX0610WBL01	VX0610WBL01	VX046588.D	06/10/2025	09:57
VX0610WBS01	VX0610WBS01	VX046589.D	06/10/2025	10:18
FB-060425	Q2230-01	VX046594.D	06/10/2025	12:09
TB060425	Q2230-06	VX046595.D	06/10/2025	12:30
GW-MW901-060425	Q2230-05	VX046601.D	06/10/2025	14:38
GW-MW01-060425	Q2230-02	VX046602.D	06/10/2025	14:59

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2230 SAS No.: Q2230 SDG NO.: Q2230
 Lab File ID: VX046635.D BFB Injection Date: 06/11/2025
 Instrument ID: MSVOA_X BFB Injection Time: 14:01
 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	21
75	30.0 - 60.0% of mass 95	52.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1.1 (1.6) 1
174	50.0 - 100.0% of mass 95	66.1
175	5.0 - 9.0% of mass 174	5 (7.5) 1
176	95.0 - 101.0% of mass 174	63.6 (96.3) 1
177	5.0 - 9.0% of mass 176	4.5 (7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX046636.D	06/11/2025	14:46
VX0611WBL02	VX0611WBL02	VX046637.D	06/11/2025	15:14
VX0611WBS02	VX0611WBS02	VX046639.D	06/11/2025	15:58
GW-MW01-060425MS	Q2230-03MS	VX046641.D	06/11/2025	16:47
GW-MW01-060425MSD	Q2230-04MSD	VX046642.D	06/11/2025	17:09

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2230 SAS No.: Q2230 SDG NO.: Q2230
Lab File ID: VX046586.D Date Analyzed: 06/10/2025
Instrument ID: MSVOA_X Time Analyzed: 09:07
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	90758	5.56	150623	6.76	134767	10.06
UPPER LIMIT	181516	6.056	301246	7.263	269534	10.555
LOWER LIMIT	45379	5.056	75311.5	6.263	67383.5	9.555
EPA SAMPLE NO.						
FB-060425	109731	5.56	215111	6.77	220551	10.06
GW-MW01-060425	112673	5.56	225413	6.77	232357	10.06
GW-MW901-060425	112231	5.56	225068	6.77	232456	10.06
TB060425	114604	5.57	224360	6.77	234275	10.06
VX0610WBL01	106110	5.56	211553	6.77	217338	10.06
VX0610WBS01	84052	5.56	143506	6.77	131426	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: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2230 SAS No.: Q2230 SDG NO.: Q2230
Lab File ID: VX046586.D Date Analyzed: 06/10/2025
Instrument ID: MSVOA_X Time Analyzed: 09:07
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	66941	12.018				
UPPER LIMIT	133882	12.518				
LOWER LIMIT	33470.5	11.518				
EPA SAMPLE NO.						
FB-060425	108439	12.02				
GW-MW01-060425	117788	12.02				
GW-MW901-060425	116598	12.02				
TB060425	115739	12.02				
VX0610WBL01	104374	12.02				
VX0610WBS01	68222	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: CAMP02
Lab Code: CHEM Case No.: Q2230 SAS No.: Q2230 SDG NO.: Q2230
Lab File ID: VX046636.D Date Analyzed: 06/11/2025
Instrument ID: MSVOA_X Time Analyzed: 14:46
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	77468	5.56	133266	6.76	119186	10.06
UPPER LIMIT	154936	6.062	266532	7.263	238372	10.555
LOWER LIMIT	38734	5.062	66633	6.263	59593	9.555
EPA SAMPLE NO.						
GW-MW01-060425MS	80829	5.57	141022	6.77	125449	10.06
GW-MW01-060425MSD	63422	5.57	110741	6.78	101042	10.06
VX0611WBL02	73470	5.56	147517	6.77	153084	10.06
VX0611WBS02	79398	5.57	136732	6.78	125565	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: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2230 SAS No.: Q2230 SDG NO.: Q2230
 Lab File ID: VX046636.D Date Analyzed: 06/11/2025
 Instrument ID: MSVOA_X Time Analyzed: 14:46
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	60295	12.018				
UPPER LIMIT	120590	12.518				
LOWER LIMIT	30147.5	11.518				
EPA SAMPLE NO.						
GW-MW01-060425MS	63001	12.02				
GW-MW01-060425MSD	50864	12.02				
VX0611WBL02	77047	12.02				
VX0611WBS02	66542	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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Report of Analysis

Client:	CDM Smith	Date Collected:	06/04/25
Project:	Con Ed UTEN Mount Vernon, NY	Date Received:	06/04/25
Client Sample ID:	FB-060425	SDG No.:	Q2230
Lab Sample ID:	Q2230-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046594.D	1		06/10/25 12:09	VX061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	1.00	U	0.15	1.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
1330-20-7	Total Xylenes	3.00	U	0.36	3.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.12	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.13	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.15	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.14	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.13	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.13	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.15	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.6		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.3		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	54.7		86 - 113	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.0		77 - 121	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	110000	5.562			
540-36-3	1,4-Difluorobenzene	215000	6.769			
3114-55-4	Chlorobenzene-d5	221000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	108000	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046594.D
Acq On : 10 Jun 2025 12:09
Operator : JC/MD
Sample : Q2230-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB-060425

Quant Time: Jun 11 01:45:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

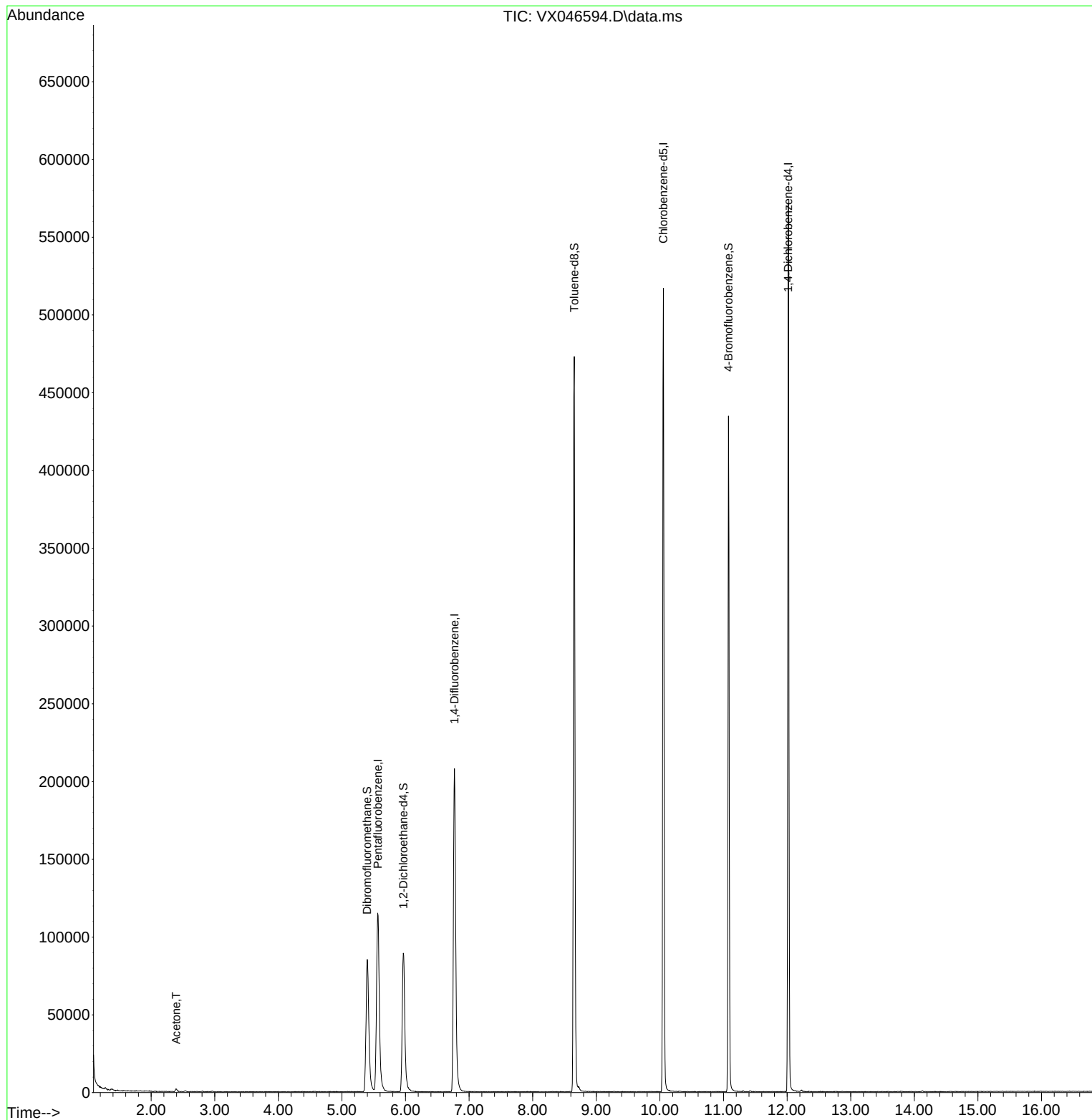
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	109731	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	215111	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	220551	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	108439	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	96798	49.583	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.160%
35) Dibromofluoromethane	5.397	113	79551	50.288	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.580%
50) Toluene-d8	8.653	98	285359	54.715	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	109.420%
62) 4-Bromofluorobenzene	11.079	95	116576	54.024	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	108.040%
Target Compounds						
16) Acetone	2.392	43	2503	7.799	ug/l	Qvalue 93

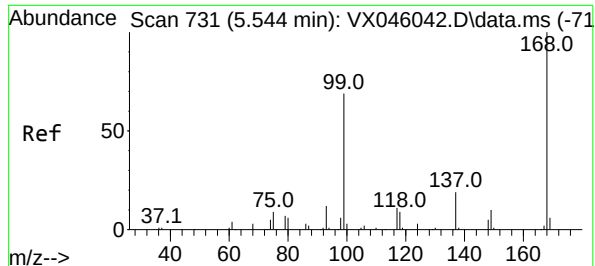
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046594.D
Acq On : 10 Jun 2025 12:09
Operator : JC/MD
Sample : Q2230-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB-060425

Quant Time: Jun 11 01:45:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

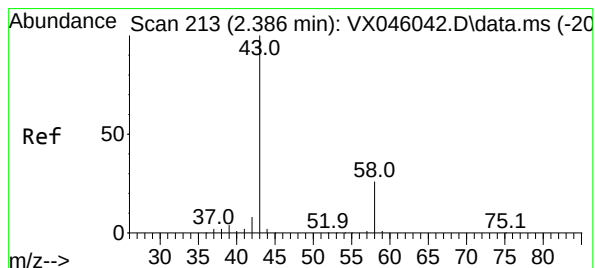
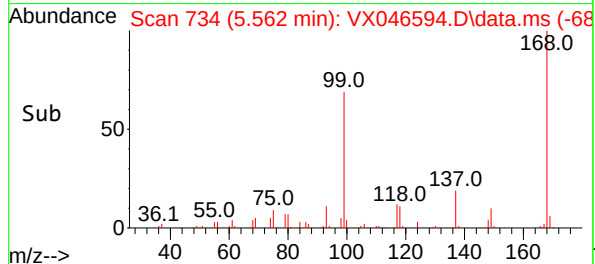
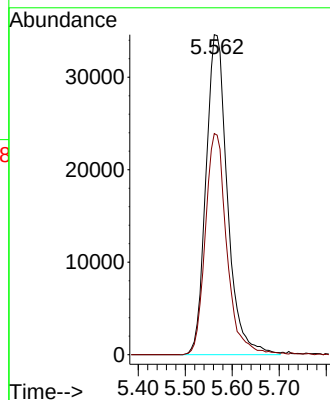
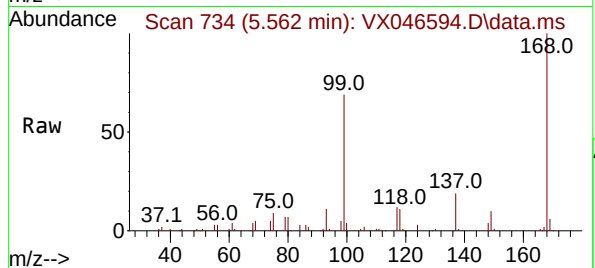




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX046594.D
Acq: 10 Jun 2025 12:09

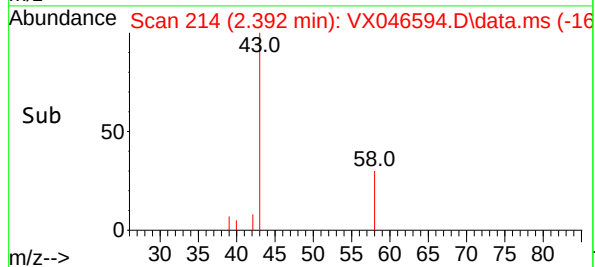
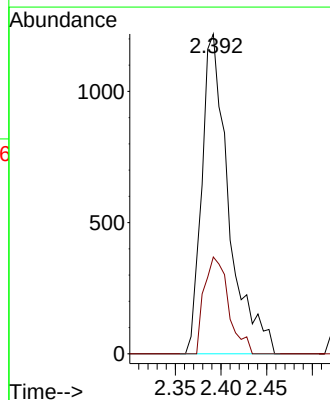
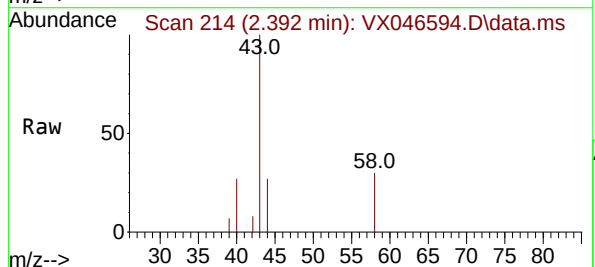
Instrument :
MSVOA_X
ClientSampleId :
FB-060425

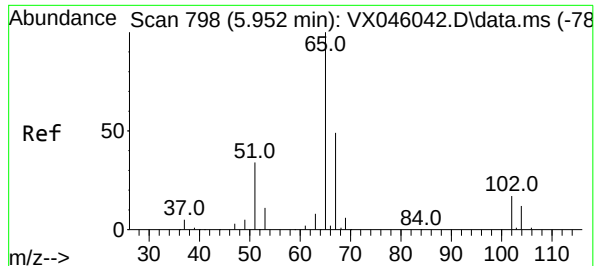
Tgt Ion:168 Resp: 109731
Ion Ratio Lower Upper
168 100
99 69.1 54.9 82.3



#16
Acetone
Concen: 7.799 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX046594.D
Acq: 10 Jun 2025 12:09

Tgt Ion: 43 Resp: 2503
Ion Ratio Lower Upper
43 100
58 30.3 21.2 31.8





#33

1,2-Dichloroethane-d4

Concen: 49.583 ug/l

RT: 5.964 min Scan# 80

Delta R.T. -0.006 min

Lab File: VX046594.D

Acq: 10 Jun 2025 12:09

Instrument :

MSVOA_X

ClientSampleId :

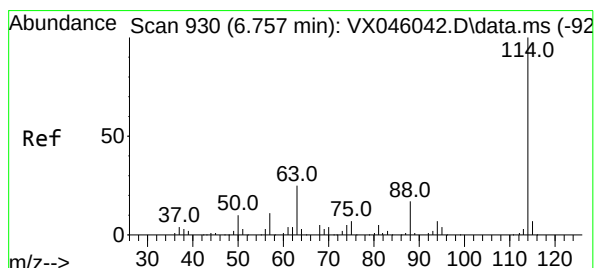
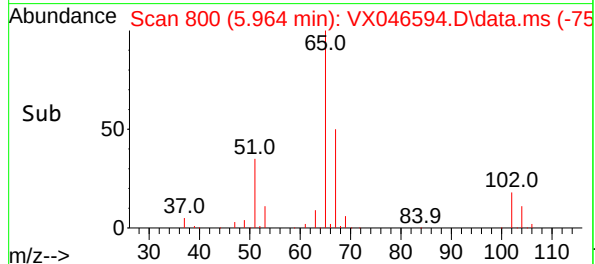
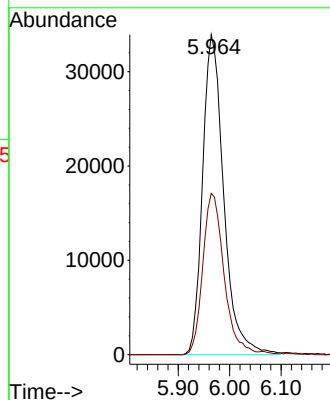
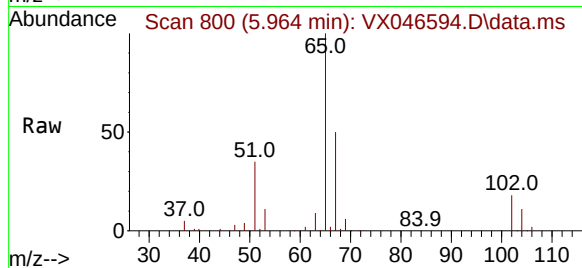
FB-060425

Tgt Ion: 65 Resp: 96798

Ion Ratio Lower Upper

65 100

67 50.5 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.006 min

Lab File: VX046594.D

Acq: 10 Jun 2025 12:09

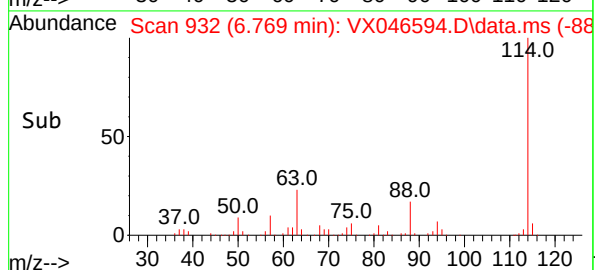
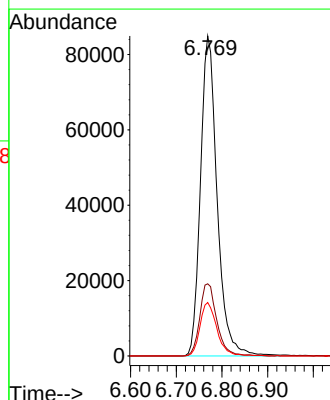
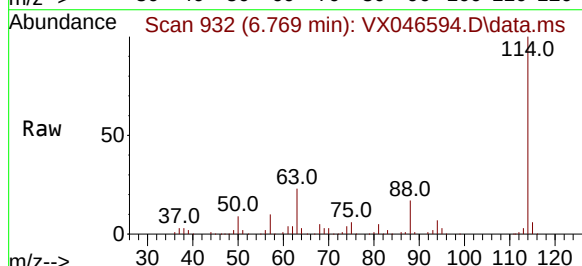
Tgt Ion: 114 Resp: 215111

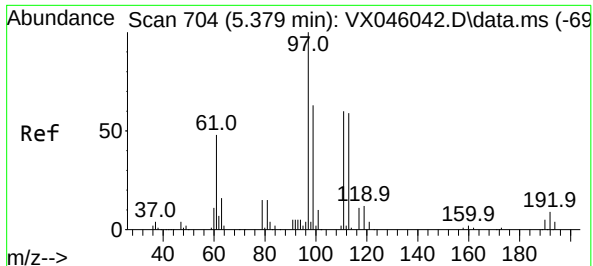
Ion Ratio Lower Upper

114 100

63 22.5 0.0 49.2

88 16.7 0.0 33.6





#35

Dibromofluoromethane

Concen: 50.288 ug/l

RT: 5.397 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX046594.D

Acq: 10 Jun 2025 12:09

Instrument :

MSVOA_X

ClientSampleId :

FB-060425

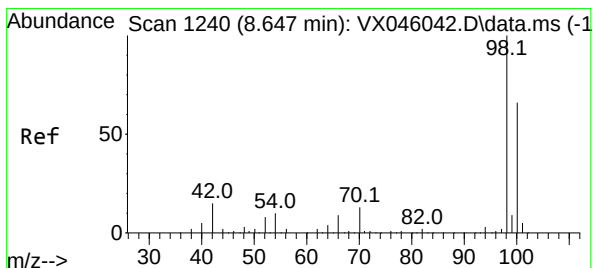
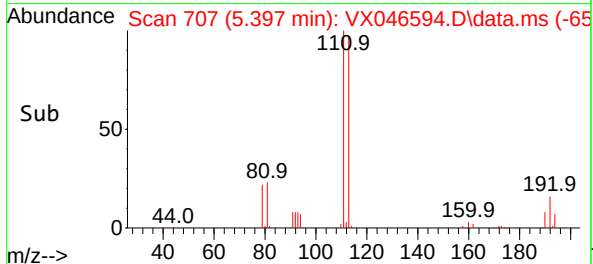
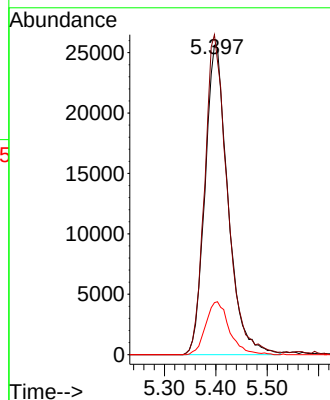
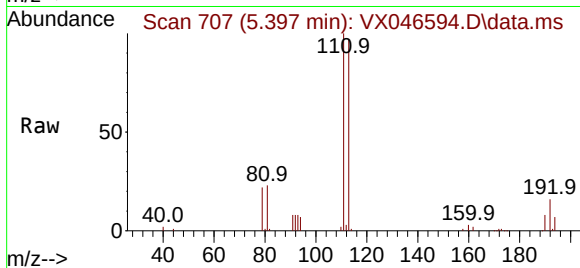
Tgt Ion:113 Resp: 79551

Ion Ratio Lower Upper

113 100

111 102.3 83.1 124.7

192 17.6 13.3 19.9



#50

Toluene-d8

Concen: 54.715 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX046594.D

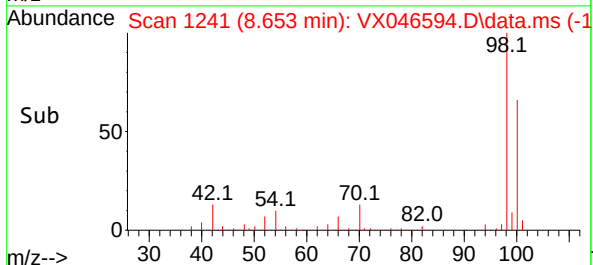
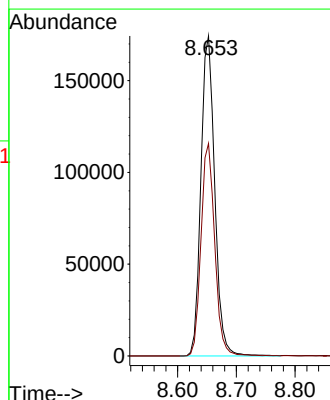
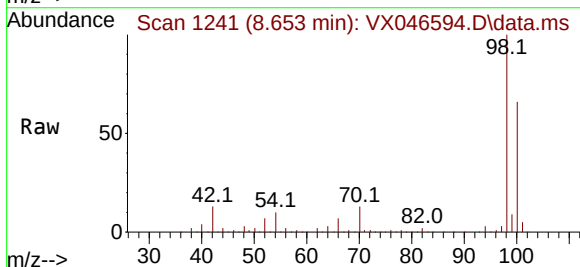
Acq: 10 Jun 2025 12:09

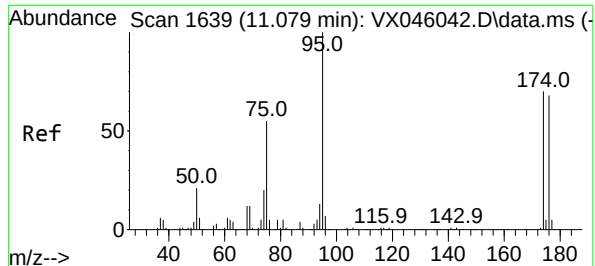
Tgt Ion: 98 Resp: 285359

Ion Ratio Lower Upper

98 100

100 65.9 53.5 80.3





#62

4-Bromofluorobenzene

Concen: 54.024 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046594.D

Acq: 10 Jun 2025 12:09

Instrument :

MSVOA_X

ClientSampleId :

FB-060425

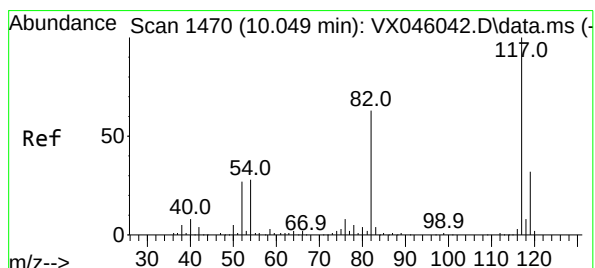
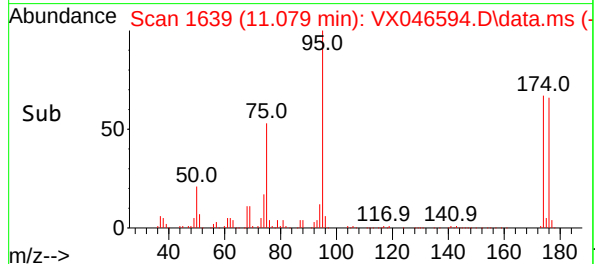
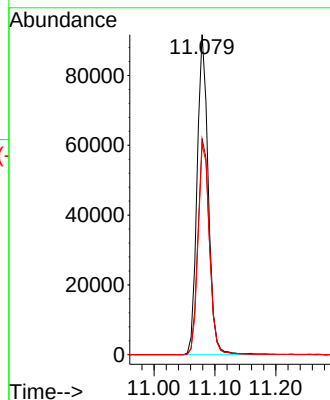
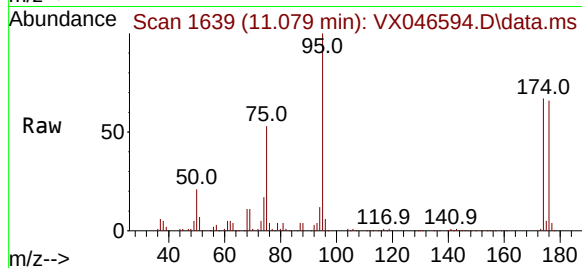
Tgt Ion: 95 Resp: 116576

Ion Ratio Lower Upper

95 100

174 69.3 0.0 135.8

176 67.2 0.0 131.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX046594.D

Acq: 10 Jun 2025 12:09

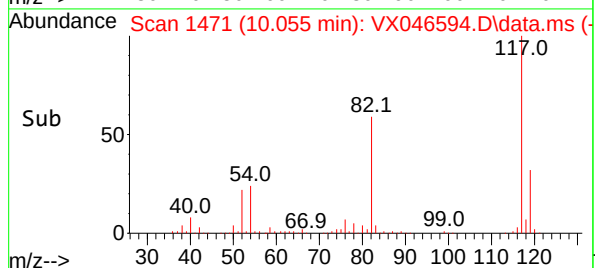
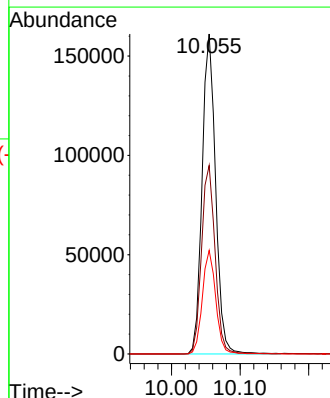
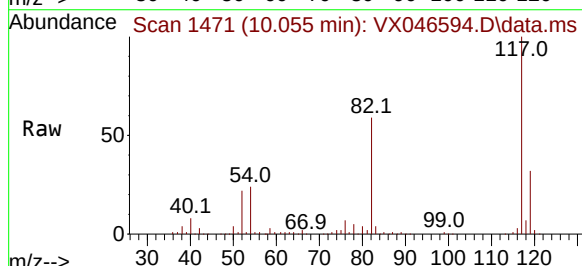
Tgt Ion: 117 Resp: 220551

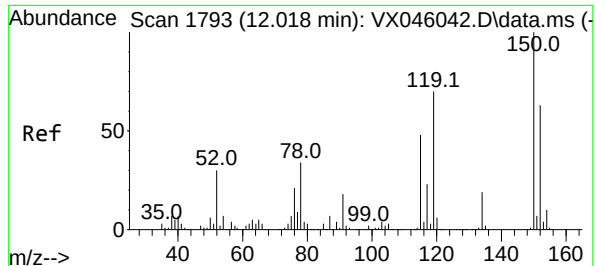
Ion Ratio Lower Upper

117 100

82 58.9 50.6 76.0

119 32.3 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX046594.D

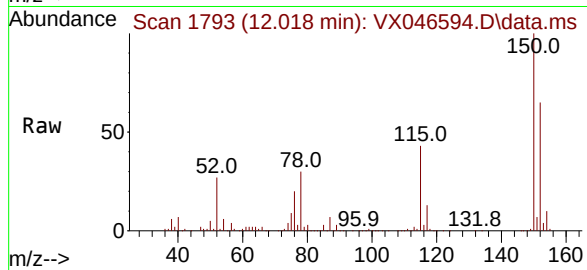
Acq: 10 Jun 2025 12:09

Instrument :

MSVOA_X

ClientSampleId :

FB-060425



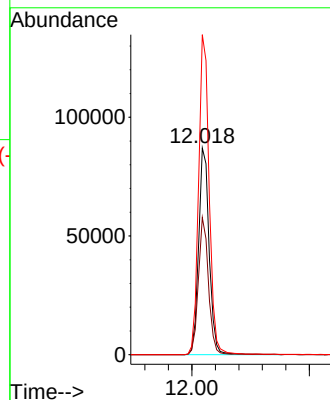
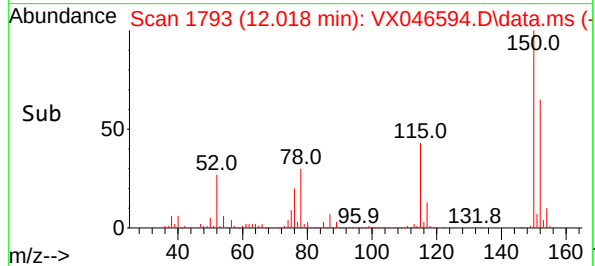
Tgt Ion:152 Resp: 108439

Ion Ratio Lower Upper

152 100

115 63.8 46.9 140.7

150 155.3 0.0 351.0



Report of Analysis

Client:	CDM Smith	Date Collected:	06/04/25
Project:	Con Ed UTEN Mount Vernon, NY	Date Received:	06/04/25
Client Sample ID:	GW-MW01-060425	SDG No.:	Q2230
Lab Sample ID:	Q2230-02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046602.D	1		06/10/25 14:59	VX061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	0.36	J	0.15	1.00	ug/L
108-88-3	Toluene	1.60		0.14	1.00	ug/L
100-41-4	Ethyl Benzene	3.80		0.13	1.00	ug/L
1330-20-7	Total Xylenes	36.1		0.36	3.00	ug/L
98-82-8	Isopropylbenzene	1.30		0.12	1.00	ug/L
103-65-1	n-propylbenzene	2.50		0.13	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	7.40		0.15	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.14	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	26.0		0.14	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00		0.13	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.13	1.00	ug/L
104-51-8	n-Butylbenzene	1.40		0.15	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.8		74 - 125	100%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	54.2		86 - 113	108%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.1		77 - 121	112%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	113000	5.562			
540-36-3	1,4-Difluorobenzene	225000	6.769			
3114-55-4	Chlorobenzene-d5	232000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	118000	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\VX061025\
 Data File : VX046602.D
 Acq On : 10 Jun 2025 14:59
 Operator : JC/MD
 Sample : Q2230-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-MW01-060425

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
 Supervised By :Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 01:48:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	112673	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	225413	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	232357	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	117788	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	99814	49.793	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.580%		
35) Dibromofluoromethane	5.403	113	82766	49.929	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.860%		
50) Toluene-d8	8.653	98	296381	54.231	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	108.460%		
62) 4-Bromofluorobenzene	11.079	95	126825	56.088	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	112.180%		
Target Compounds						
					Qvalue	
3) Chloromethane	1.307	50	385	0.270	ug/l	90
16) Acetone	2.392	43	36663	50.314	ug/l	95
25) 2-Butanone	4.593	43	9858	8.834	ug/l	91
30) Chloroform	5.111	83	7992	2.642	ug/l	90
31) Cyclohexane	5.489	56	1227	0.527	ug/l	96
39) Methylcyclohexane	7.385	83	2716	0.972	ug/l	91
40) Benzene	6.062	78	2386	0.358	ug/l #	73
52) Toluene	8.726	92	6540	1.597	ug/l	98
67) Ethyl Benzene	10.195	91	36138	3.788	ug/l	95
68) m/p-Xylenes	10.299	106	55836	16.134	ug/l	98
69) o-Xylene	10.640	106	66951	20.001	ug/l	99
73) Isopropylbenzene	10.963	105	12369	1.336	ug/l	99
78) n-propylbenzene	11.305	91	28458	2.539	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	56897	7.374	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	203323	26.048	ug/l	98
85) sec-Butylbenzene	11.890	105	10047	0.995	ug/l	88
89) n-Butylbenzene	12.329	91	11554m	1.398	ug/l	

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

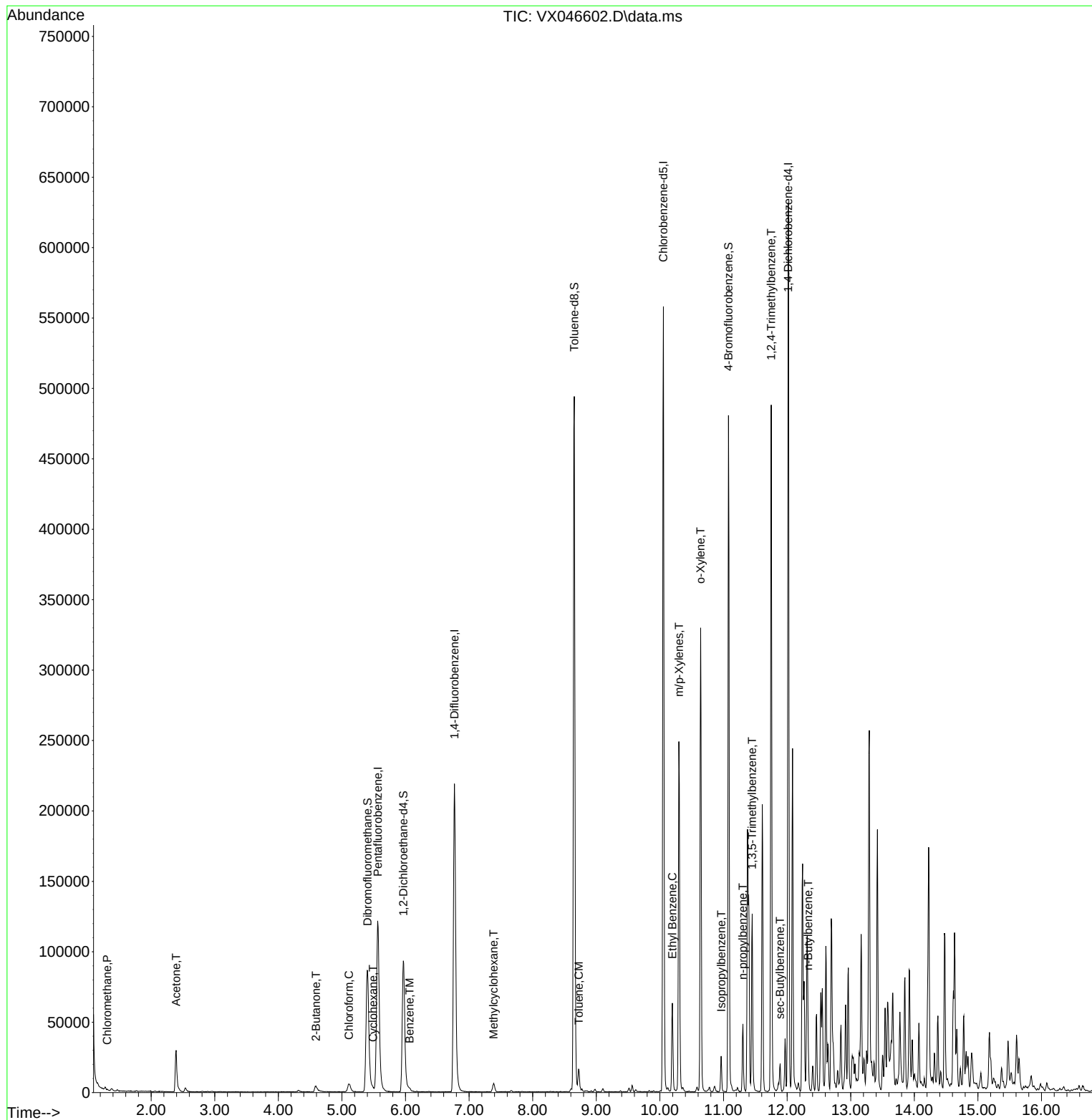
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046602.D
Acq On : 10 Jun 2025 14:59
Operator : JC/MD
Sample : Q2230-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

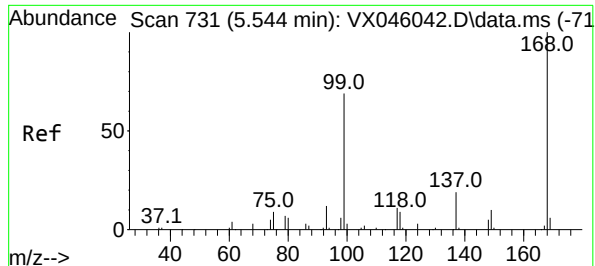
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425

Manual Integrations
APPROVED

Reviewed By : John Carlone 06/11/2025
Supervised By : Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 01:48:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration





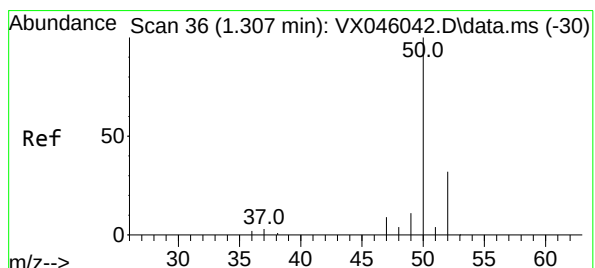
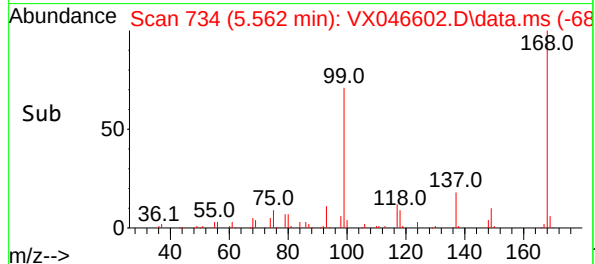
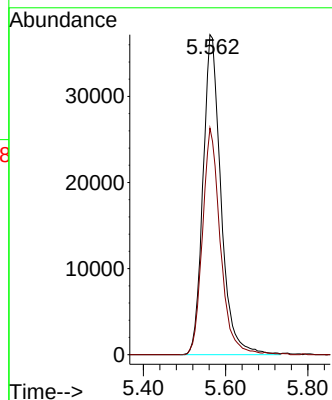
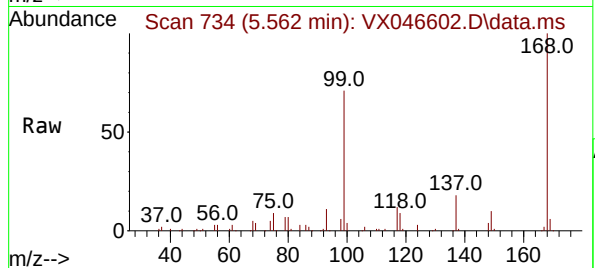
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX046602.D
Acq: 10 Jun 2025 14:59

Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425

Tgt Ion:168 Resp: 11267
Ion Ratio Lower Upper
168 100
99 70.8 54.9 82.3

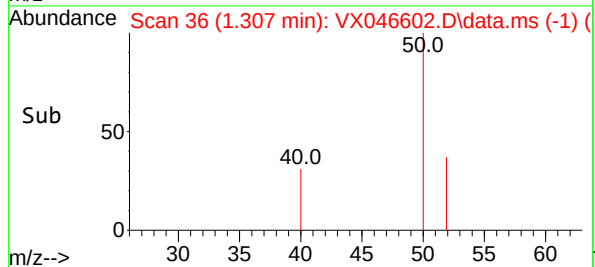
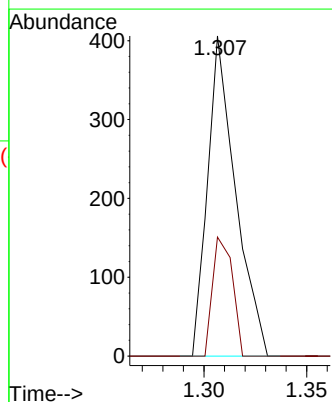
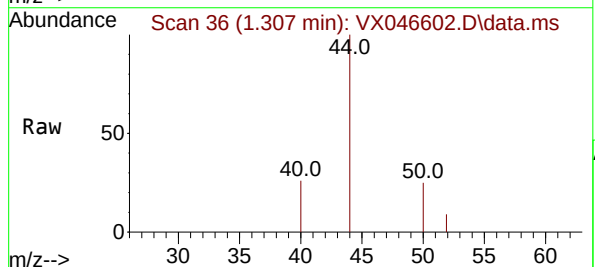
Manual Integrations
APPROVED

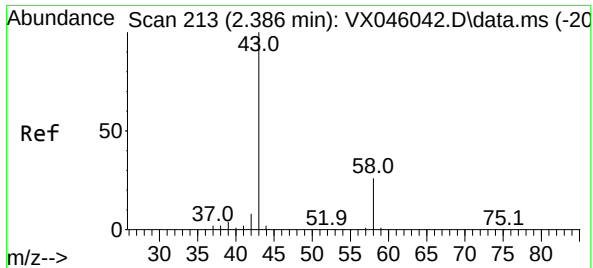
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#3
Chloromethane
Concen: 0.270 ug/l
RT: 1.307 min Scan# 36
Delta R.T. -0.000 min
Lab File: VX046602.D
Acq: 10 Jun 2025 14:59

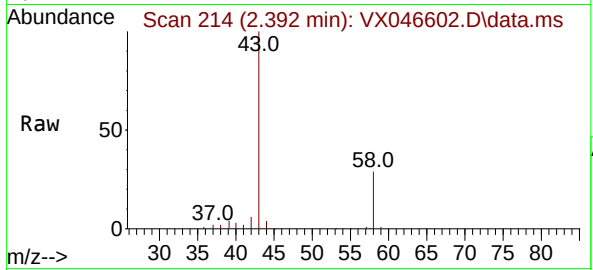
Tgt Ion: 50 Resp: 385
Ion Ratio Lower Upper
50 100
52 37.2 25.4 38.2





#16
Acetone
Concen: 50.314 ug/l
RT: 2.392 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX046602.D
Acq: 10 Jun 2025 14:59

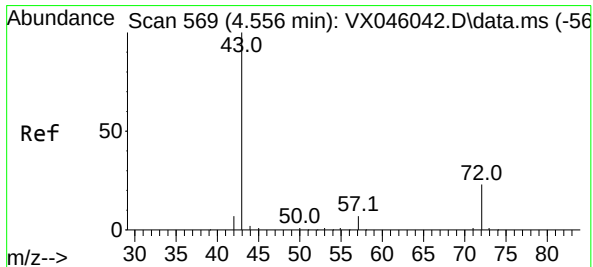
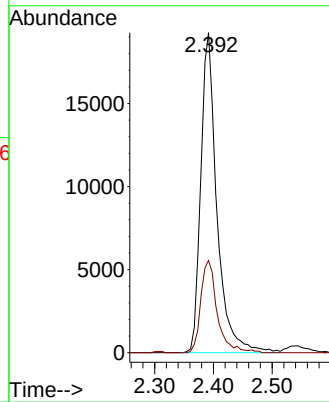
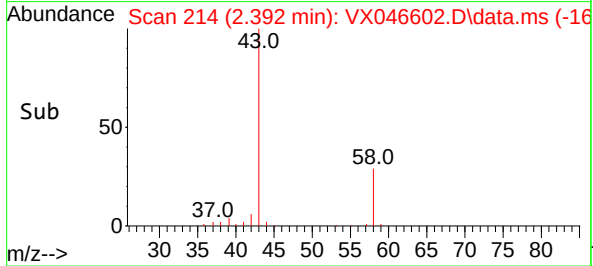
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425



Tgt Ion: 43 Resp: 3666
Ion Ratio Lower Upper
43 100
58 28.8 21.2 31.8

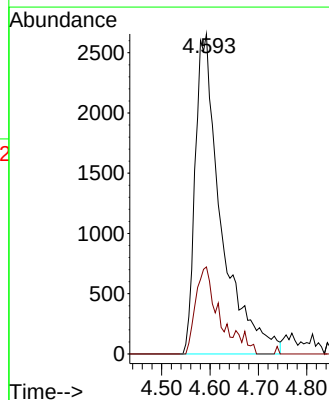
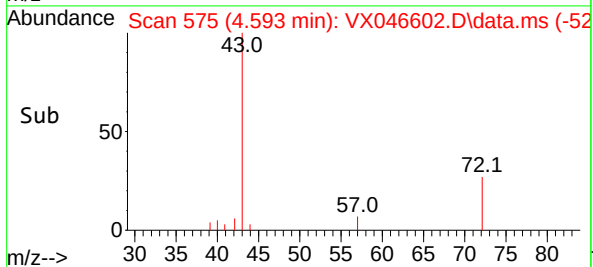
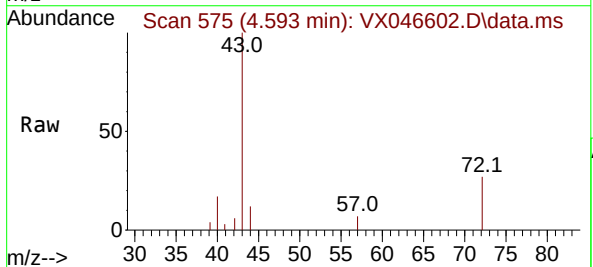
Manual Integrations
APPROVED

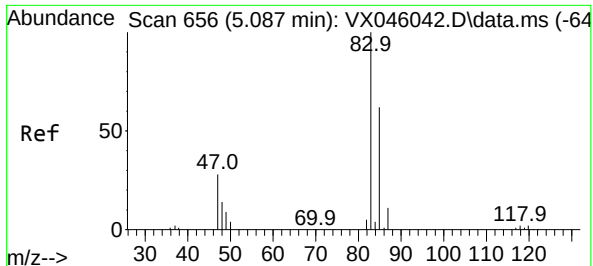
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#25
2-Butanone
Concen: 8.834 ug/l
RT: 4.593 min Scan# 575
Delta R.T. 0.019 min
Lab File: VX046602.D
Acq: 10 Jun 2025 14:59

Tgt Ion: 43 Resp: 9858
Ion Ratio Lower Upper
43 100
72 27.2 18.4 27.6





#30

Chloroform

Concen: 2.642 ug/l

RT: 5.111 min Scan# 60

Delta R.T. -0.000 min

Lab File: VX046602.D

Acq: 10 Jun 2025 14:59

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425

Tgt Ion: 83 Resp: 799

Ion Ratio Lower Upper

83 100

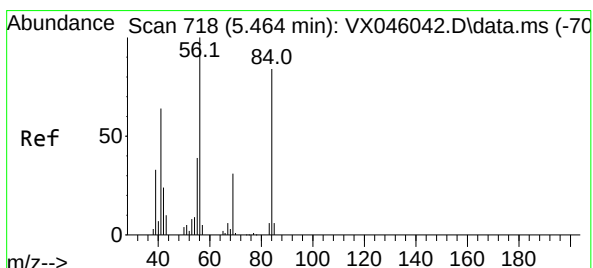
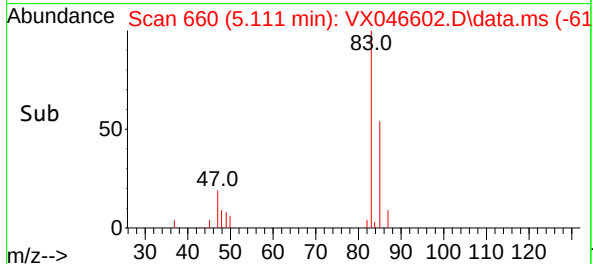
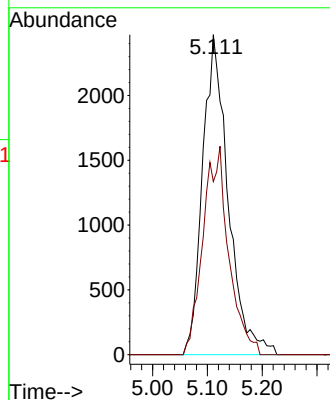
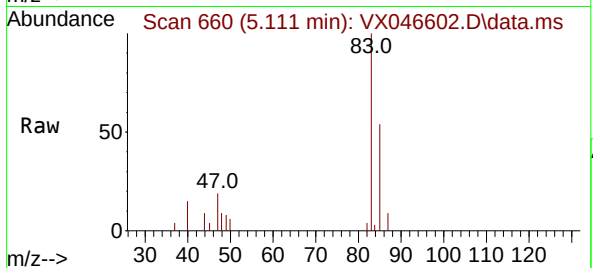
85 54.1 49.3 73.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#31

Cyclohexane

Concen: 0.527 ug/l

RT: 5.489 min Scan# 722

Delta R.T. -0.000 min

Lab File: VX046602.D

Acq: 10 Jun 2025 14:59

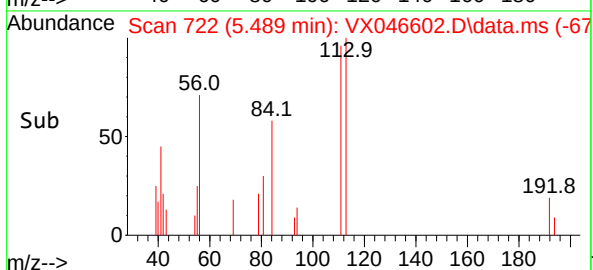
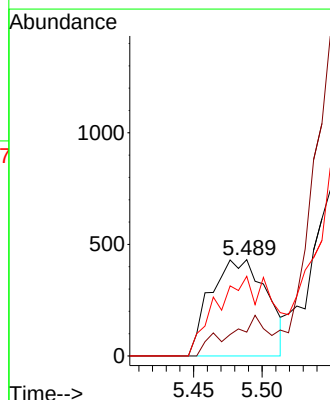
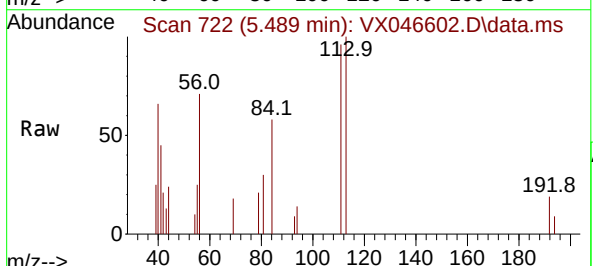
Tgt Ion: 56 Resp: 1227

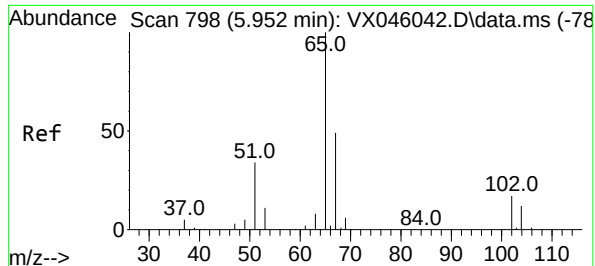
Ion Ratio Lower Upper

56 100

69 24.8 24.4 36.6

84 82.6 66.9 100.3





#33

1,2-Dichloroethane-d4

Concen: 49.793 ug/l

RT: 5.964 min Scan# 80

Delta R.T. -0.006 min

Lab File: VX046602.D

Acq: 10 Jun 2025 14:59

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425

Tgt Ion: 65 Resp: 99814

Ion Ratio Lower Upper

65 100

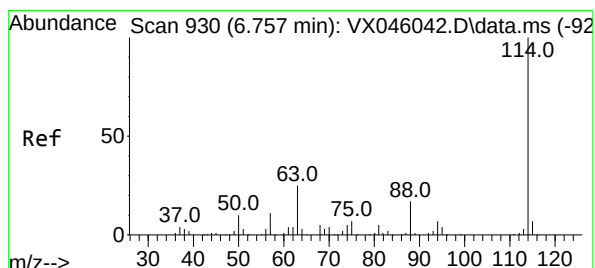
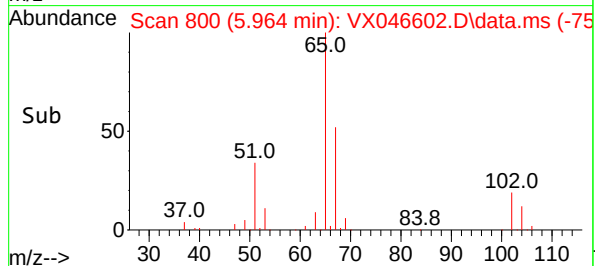
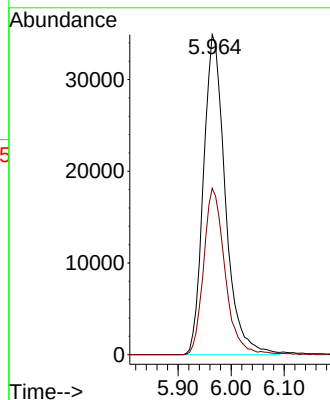
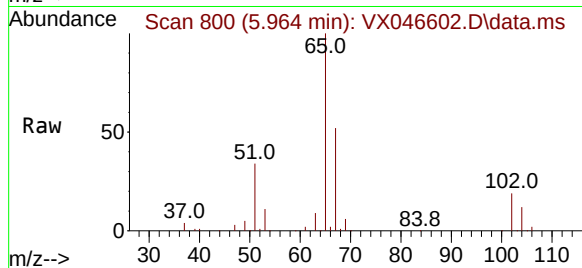
67 51.1 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.006 min

Lab File: VX046602.D

Acq: 10 Jun 2025 14:59

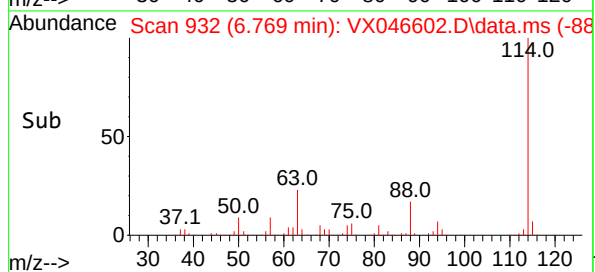
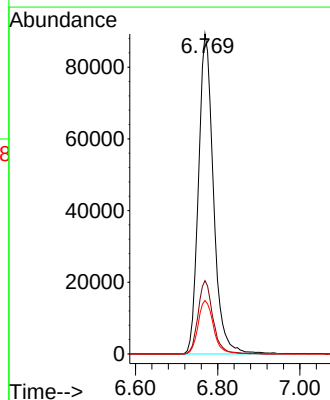
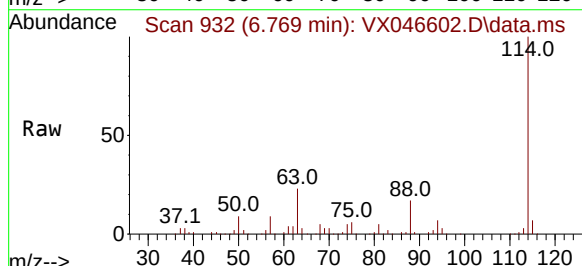
Tgt Ion:114 Resp: 225413

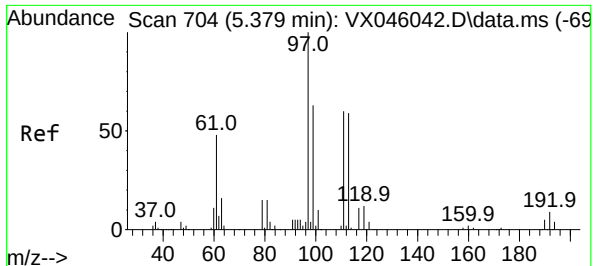
Ion Ratio Lower Upper

114 100

63 22.9 0.0 49.2

88 16.7 0.0 33.6





#35

Dibromofluoromethane

Concen: 49.929 ug/l

RT: 5.403 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX046602.D

Acq: 10 Jun 2025 14:59

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425

Tgt Ion:113 Resp: 8276

Ion Ratio Lower Upper

113 100

111 102.4 83.1 124.7

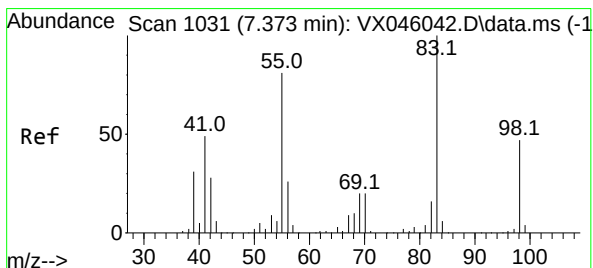
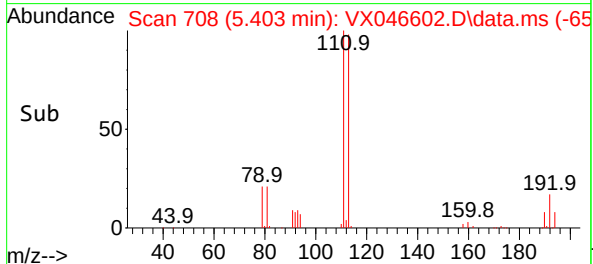
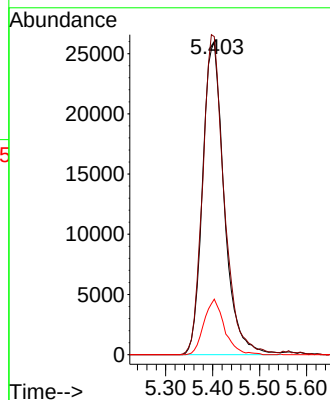
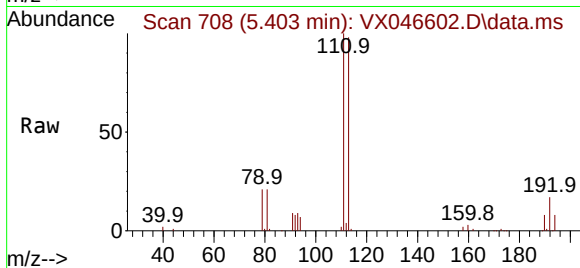
192 16.9 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#39

Methylcyclohexane

Concen: 0.972 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.006 min

Lab File: VX046602.D

Acq: 10 Jun 2025 14:59

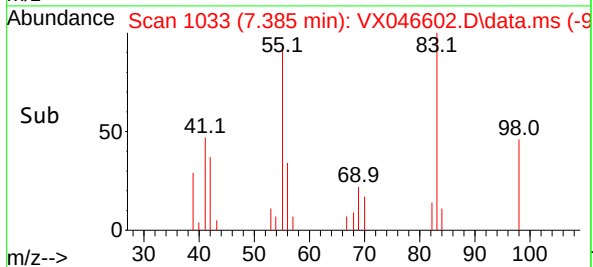
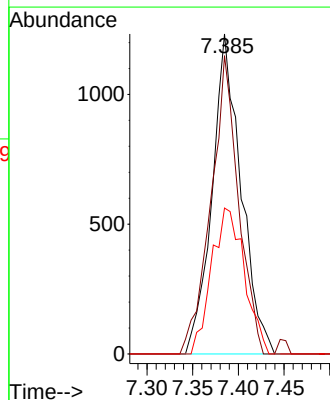
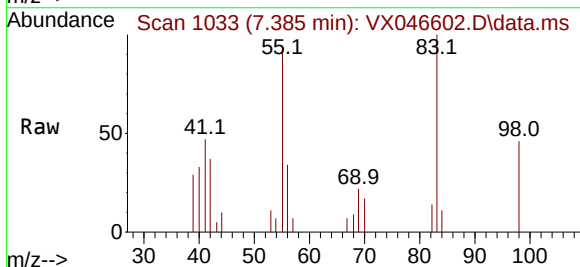
Tgt Ion: 83 Resp: 2716

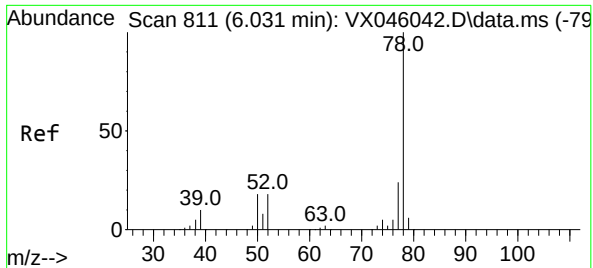
Ion Ratio Lower Upper

83 100

55 93.2 64.7 97.1

98 45.6 37.4 56.2





#40

Benzene

Concen: 0.358 ug/l

RT: 6.062 min Scan# 811

Delta R.T. 0.006 min

Lab File: VX046602.D

Acq: 10 Jun 2025 14:59

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425

Tgt Ion: 78 Resp: 2380

Ion Ratio Lower Upper

78 100

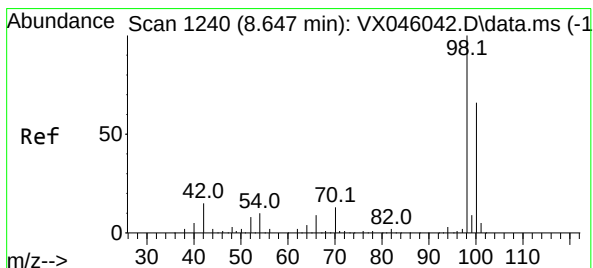
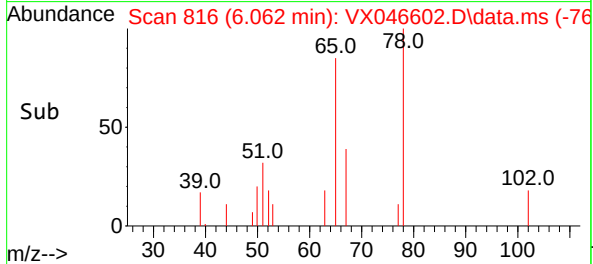
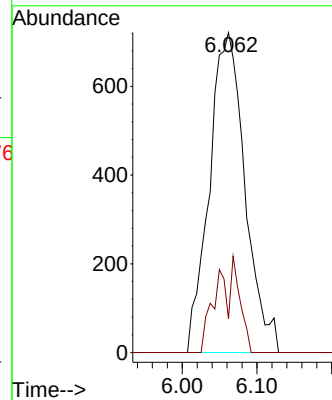
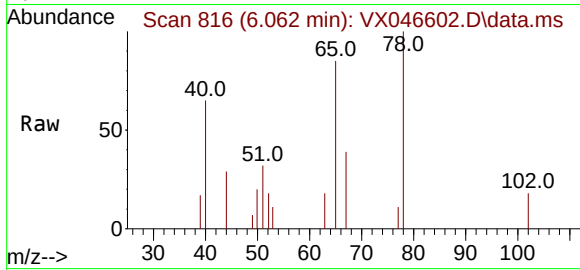
77 10.5 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#50

Toluene-d8

Concen: 54.231 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX046602.D

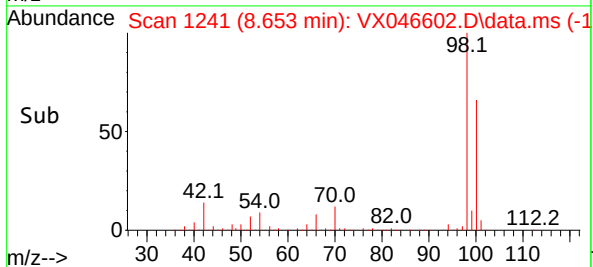
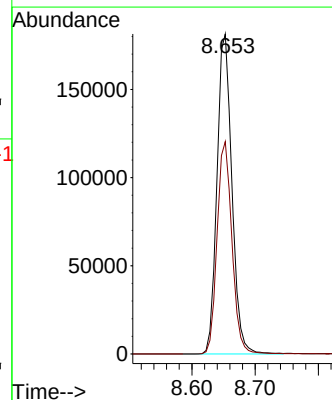
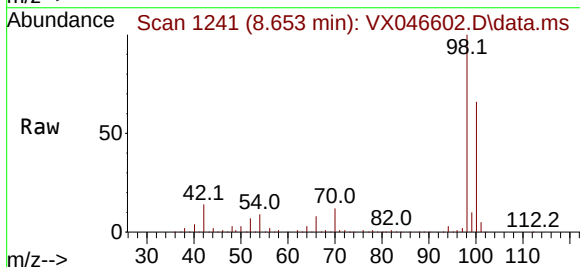
Acq: 10 Jun 2025 14:59

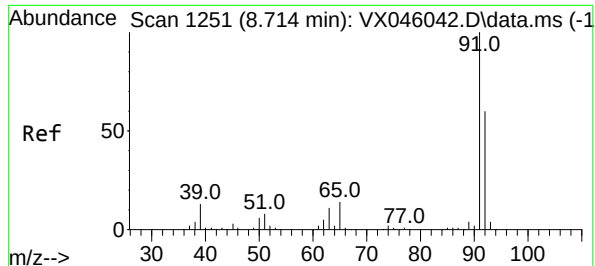
Tgt Ion: 98 Resp: 296381

Ion Ratio Lower Upper

98 100

100 66.1 53.5 80.3





#52

Toluene

Concen: 1.597 ug/l

RT: 8.726 min Scan# 1251

Delta R.T. 0.006 min

Lab File: VX046602.D

Acq: 10 Jun 2025 14:59

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425

Tgt Ion: 92 Resp: 6540

Ion Ratio Lower Upper

92 100

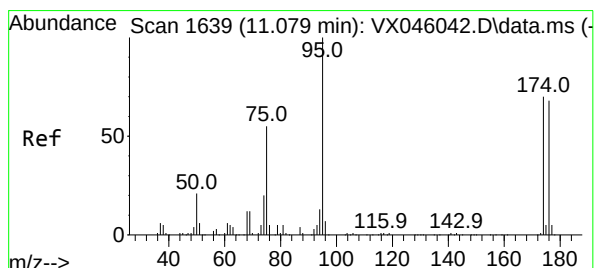
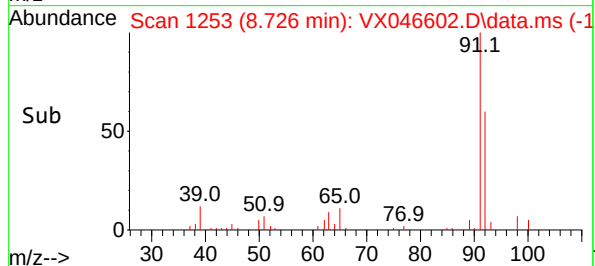
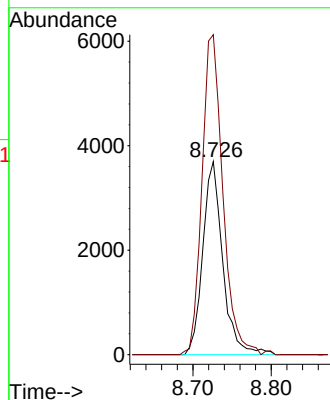
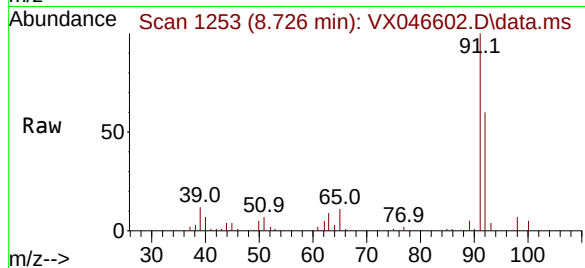
91 173.7 136.6 205.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#62

4-Bromofluorobenzene

Concen: 56.088 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046602.D

Acq: 10 Jun 2025 14:59

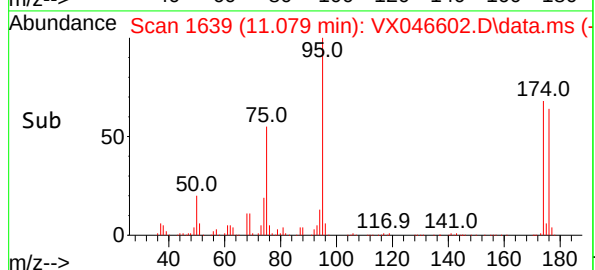
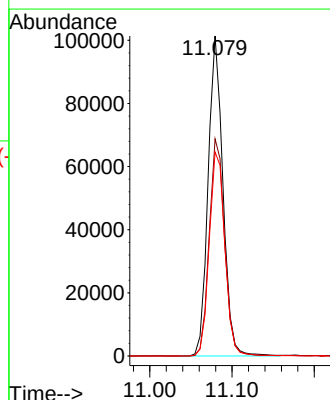
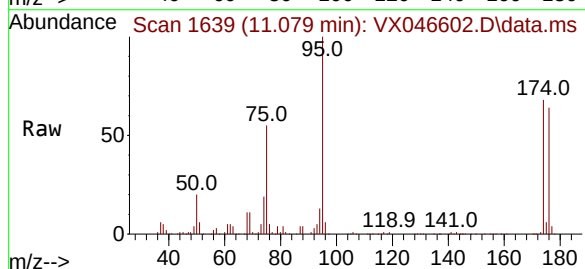
Tgt Ion: 95 Resp: 126825

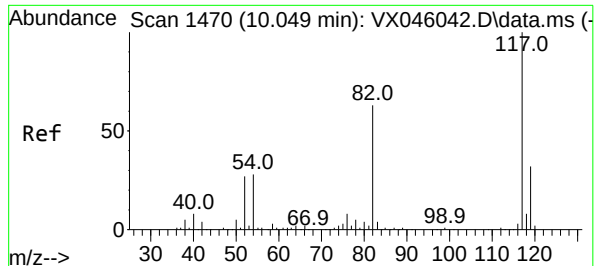
Ion Ratio Lower Upper

95 100

174 70.4 0.0 135.8

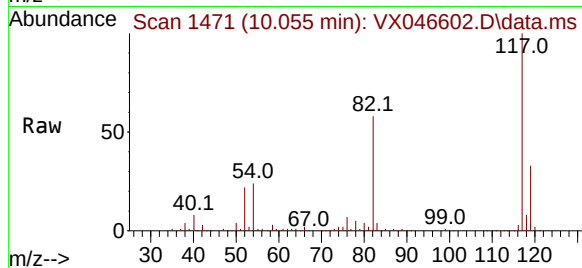
176 67.3 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046602.D
Acq: 10 Jun 2025 14:59

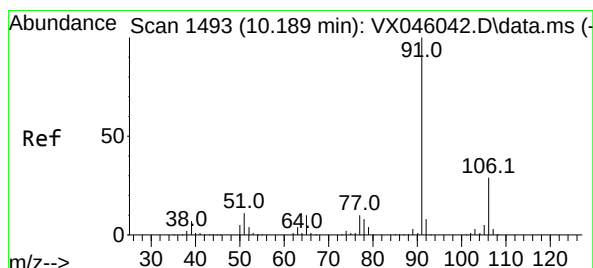
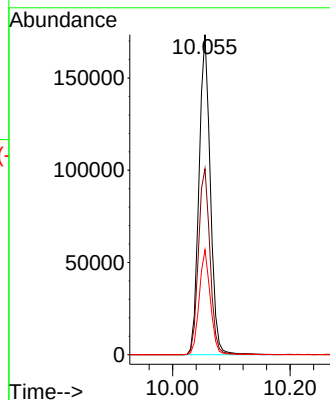
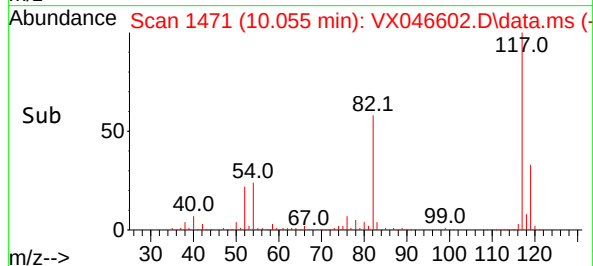
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425



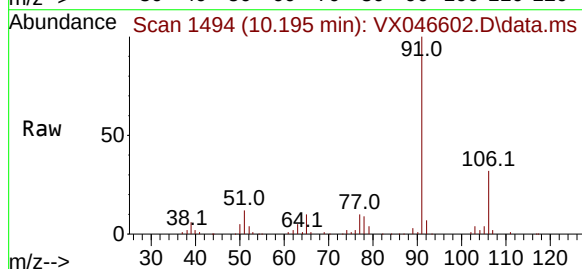
Tgt Ion: 117 Resp: 23235
Ion Ratio Lower Upper
117 100
82 58.1 50.6 76.0
119 32.8 25.8 38.6

Manual Integrations
APPROVED

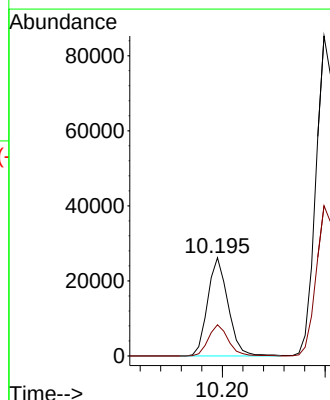
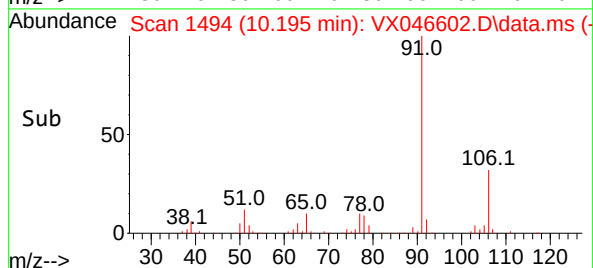
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

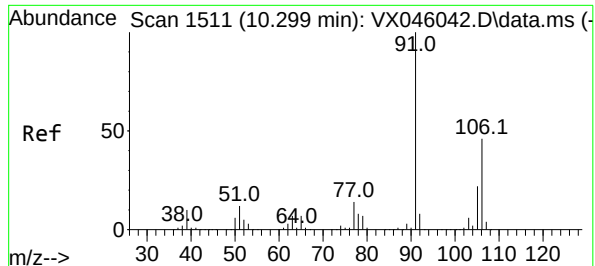


#67
Ethyl Benzene
Concen: 3.788 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX046602.D
Acq: 10 Jun 2025 14:59



Tgt Ion: 91 Resp: 36138
Ion Ratio Lower Upper
91 100
106 31.7 23.4 35.2





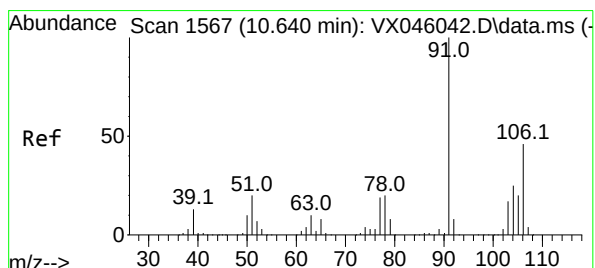
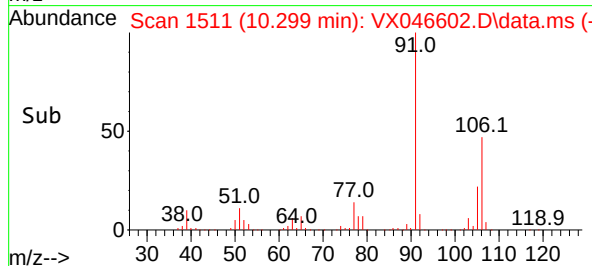
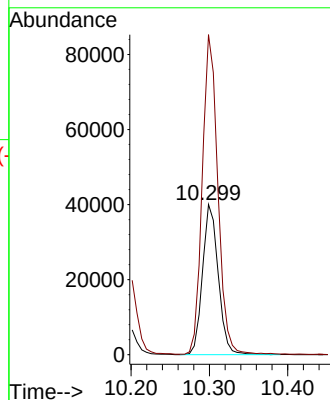
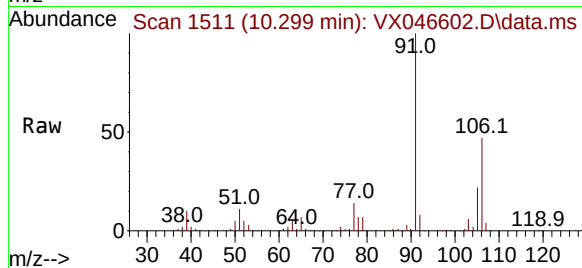
#68
m/p-Xylenes
Concen: 16.134 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046602.D
Acq: 10 Jun 2025 14:59

Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425

Tgt Ion:106 Resp: 55830
Ion Ratio Lower Upper
106 100
91 210.7 171.2 256.8

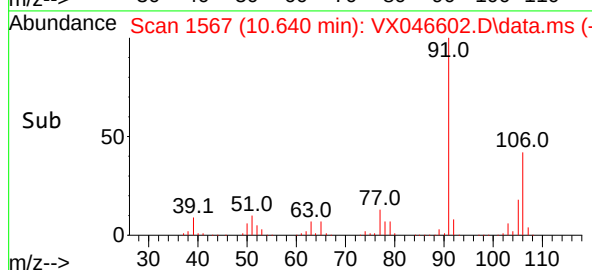
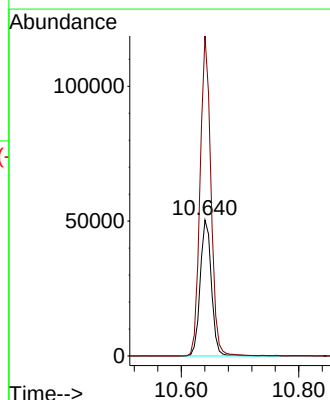
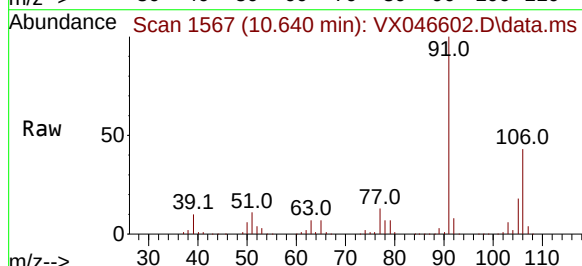
Manual Integrations
APPROVED

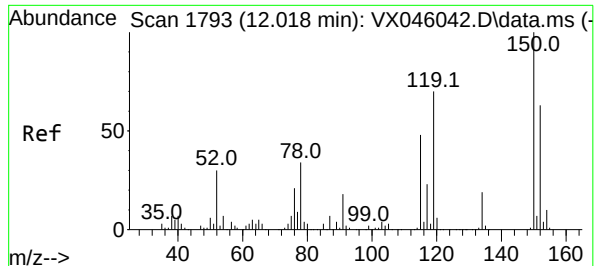
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#69
o-Xylene
Concen: 20.001 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046602.D
Acq: 10 Jun 2025 14:59

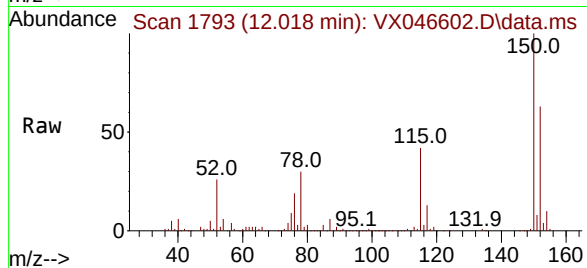
Tgt Ion:106 Resp: 66951
Ion Ratio Lower Upper
106 100
91 227.4 112.7 338.1





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11778
Delta R.T. -0.006 min
Lab File: VX046602.D
Acq: 10 Jun 2025 14:59

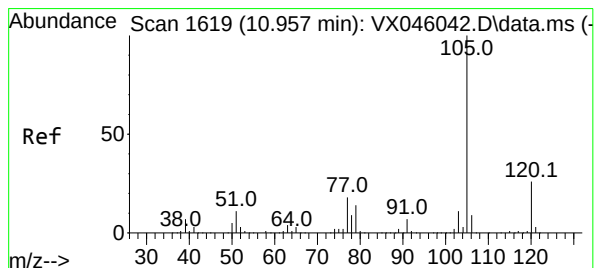
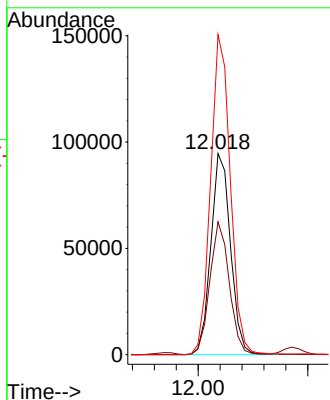
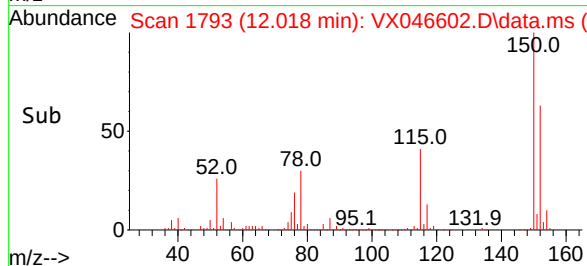
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425



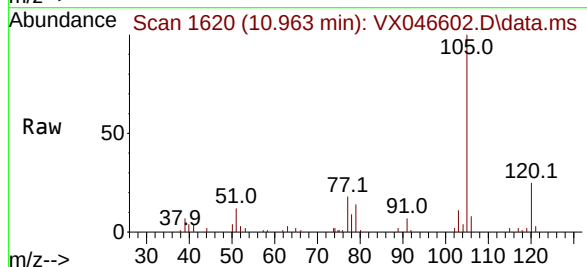
Tgt Ion:152 Resp: 11778
Ion Ratio Lower Upper
152 100
115 65.0 46.9 140.7
150 159.4 0.0 351.0

Manual Integrations
APPROVED

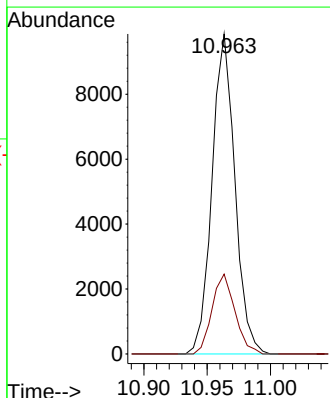
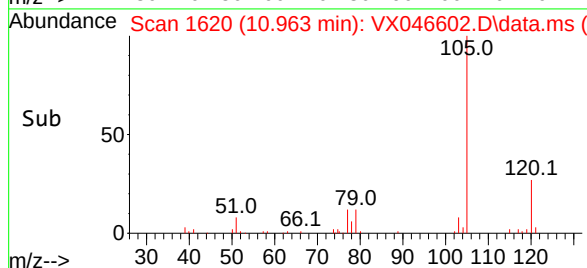
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

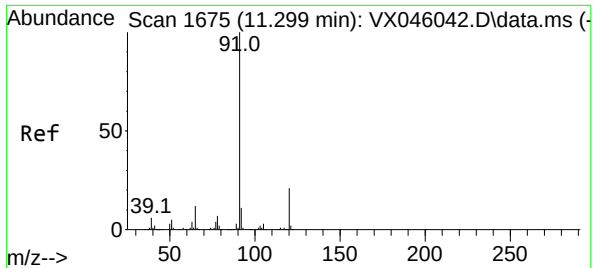


#73
Isopropylbenzene
Concen: 1.336 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX046602.D
Acq: 10 Jun 2025 14:59



Tgt Ion:105 Resp: 12369
Ion Ratio Lower Upper
105 100
120 25.0 12.8 38.4





#78

n-propylbenzene

Concen: 2.539 ug/l

RT: 11.305 min Scan# 1675

Delta R.T. -0.000 min

Lab File: VX046602.D

Acq: 10 Jun 2025 14:59

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425

Tgt Ion: 91 Resp: 28458

Ion Ratio Lower Upper

91 100

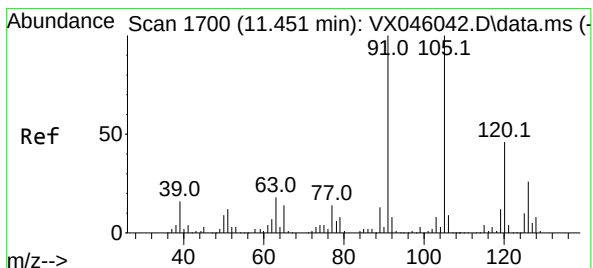
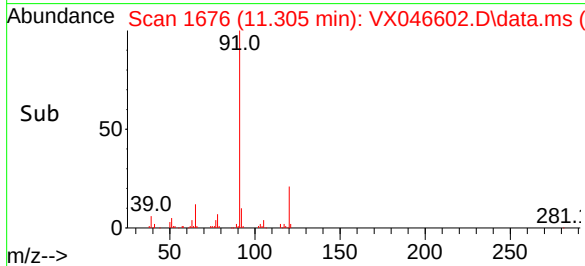
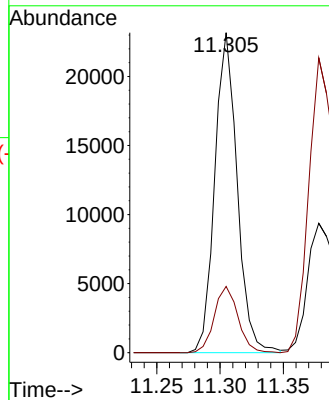
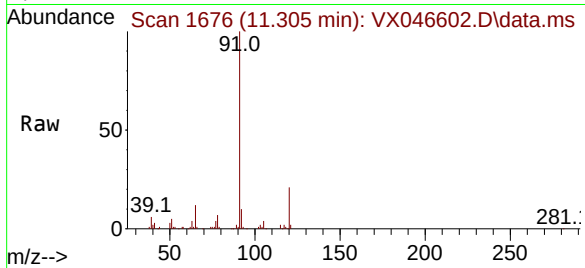
120 21.9 10.8 32.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#80

1,3,5-Trimethylbenzene

Concen: 7.374 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046602.D

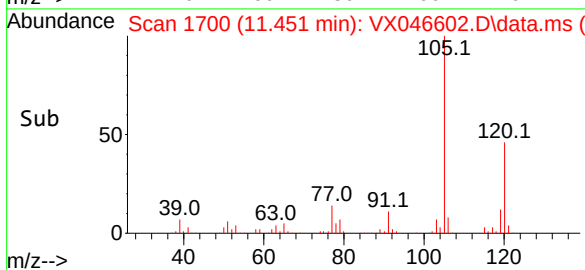
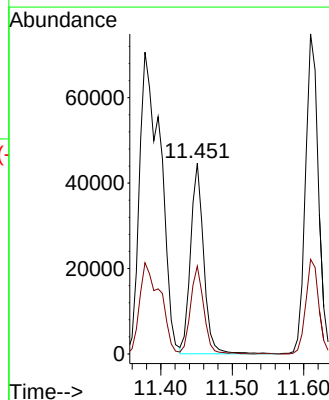
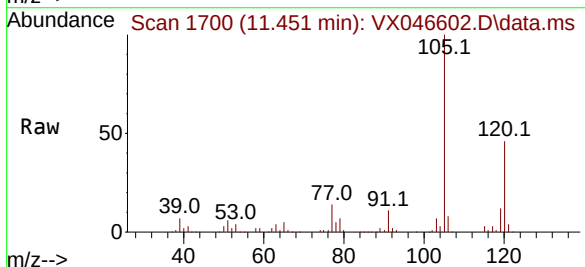
Acq: 10 Jun 2025 14:59

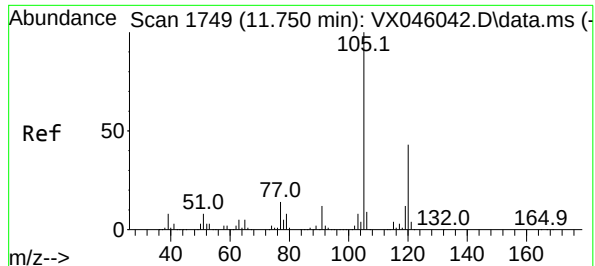
Tgt Ion:105 Resp: 56897

Ion Ratio Lower Upper

105 100

120 46.4 23.1 69.2





#84

1,2,4-Trimethylbenzene

Concen: 26.048 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX046602.D

Acq: 10 Jun 2025 14:59

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425

Tgt Ion:105 Resp: 20332

Ion Ratio Lower Upper

105 100

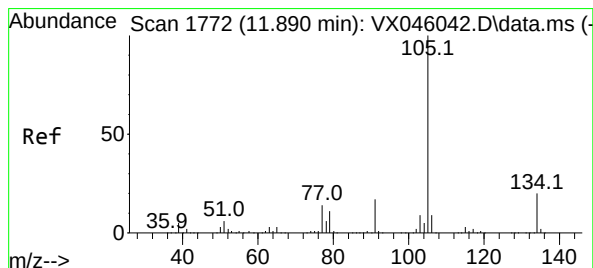
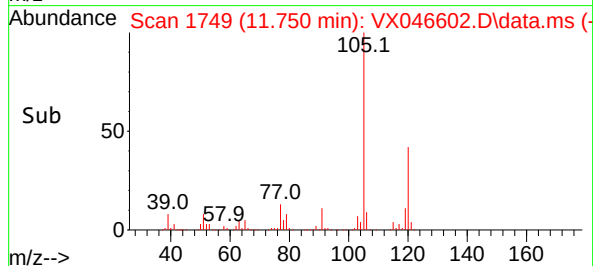
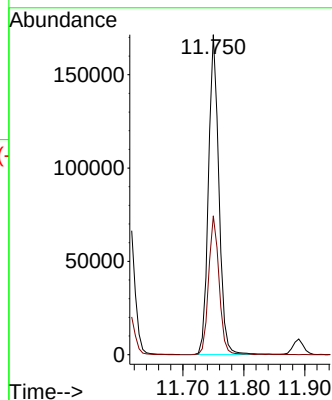
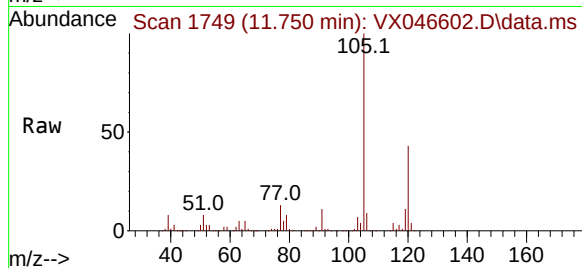
120 43.7 21.2 63.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#85

sec-Butylbenzene

Concen: 0.995 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX046602.D

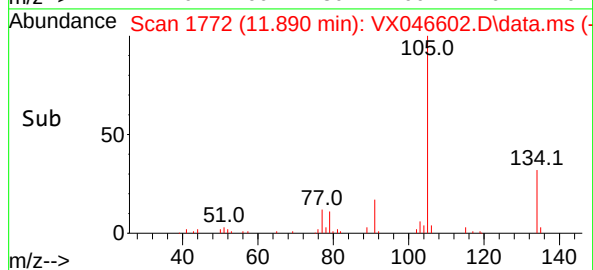
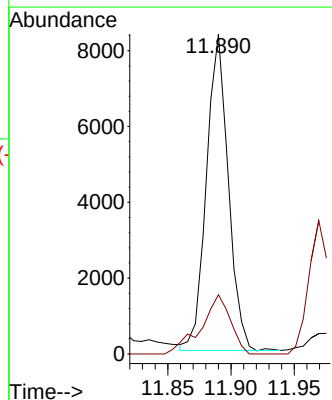
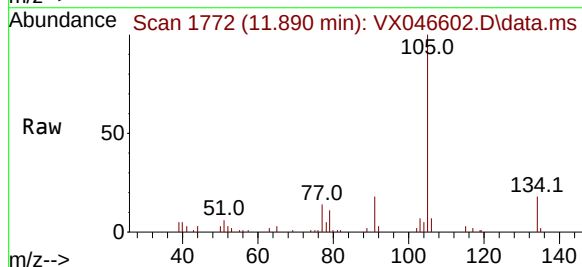
Acq: 10 Jun 2025 14:59

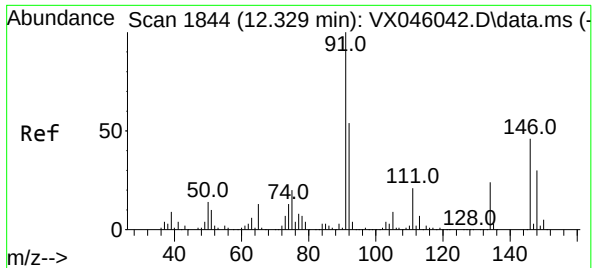
Tgt Ion:105 Resp: 10047

Ion Ratio Lower Upper

105 100

134 25.0 9.7 29.1





#89

n-Butylbenzene

Concen: 1.398 ug/l m

RT: 12.329 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX046602.D

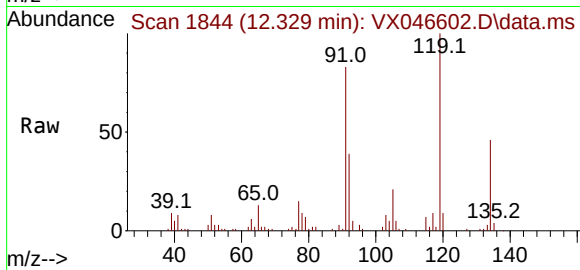
Acq: 10 Jun 2025 14:59

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425



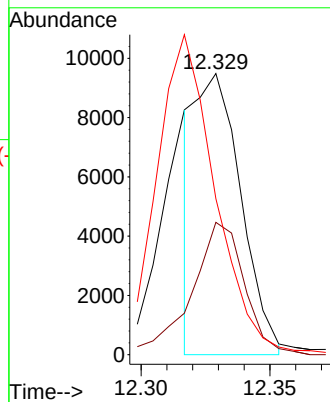
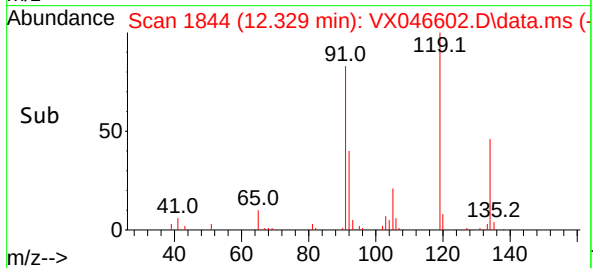
Tgt Ion:	91	Resp:	11554
Ion	Ratio	Lower	Upper
91	100		
92	55.2	26.9	80.7
134	144.7	11.8	35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



Report of Analysis

Client:	CDM Smith	Date Collected:	06/04/25
Project:	Con Ed UTEN Mount Vernon, NY	Date Received:	06/04/25
Client Sample ID:	GW-MW901-060425	SDG No.:	Q2230
Lab Sample ID:	Q2230-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046601.D	1		06/10/25 14:38	VX061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	0.32	J	0.15	1.00	ug/L
108-88-3	Toluene	1.60		0.14	1.00	ug/L
100-41-4	Ethyl Benzene	3.70		0.13	1.00	ug/L
1330-20-7	Total Xylenes	34.6		0.36	3.00	ug/L
98-82-8	Isopropylbenzene	1.20		0.12	1.00	ug/L
103-65-1	n-propylbenzene	2.30		0.13	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	6.80		0.15	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.14	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	24.8		0.14	1.00	ug/L
135-98-8	sec-Butylbenzene	0.90	J	0.13	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.13	1.00	ug/L
104-51-8	n-Butylbenzene	1.20		0.15	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.2		74 - 125	100%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	54.3		86 - 113	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.6		77 - 121	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	112000	5.562			
540-36-3	1,4-Difluorobenzene	225000	6.769			
3114-55-4	Chlorobenzene-d5	232000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	117000	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\VX061025\
 Data File : VX046601.D
 Acq On : 10 Jun 2025 14:38
 Operator : JC/MD
 Sample : Q2230-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-MW901-060425

Manual Integrations APPROVED

Reviewed By : John Carlone 06/11/2025
 Supervised By : Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 01:48:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	112231	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	225068	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	232456	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	116598	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	100300	50.233	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.460%			
35) Dibromofluoromethane	5.397	113	82652	49.936	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.880%			
50) Toluene-d8	8.653	98	296387	54.315	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.640%			
62) 4-Bromofluorobenzene	11.079	95	125497	55.586	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 111.180%			
Target Compounds						
					Qvalue	
16) Acetone	2.392	43	37286	51.274	ug/l	93
25) 2-Butanone	4.580	43	9330	8.394	ug/l	97
30) Chloroform	5.111	83	8181	2.715	ug/l	100
39) Methylcyclohexane	7.385	83	2176	0.780	ug/l #	82
40) Benzene	6.056	78	2130	0.320	ug/l	91
52) Toluene	8.720	92	6393	1.563	ug/l	98
67) Ethyl Benzene	10.195	91	35673	3.738	ug/l	98
68) m/p-Xylenes	10.299	106	53415	15.428	ug/l	100
69) o-Xylene	10.640	106	64394	19.229	ug/l	99
73) Isopropylbenzene	10.963	105	11077	1.209	ug/l	99
78) n-propylbenzene	11.305	91	26062	2.349	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	52157	6.829	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	191613	24.799	ug/l	99
85) sec-Butylbenzene	11.890	105	9000	0.901	ug/l	90
89) n-Butylbenzene	12.329	91	9674m	1.183	ug/l	

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

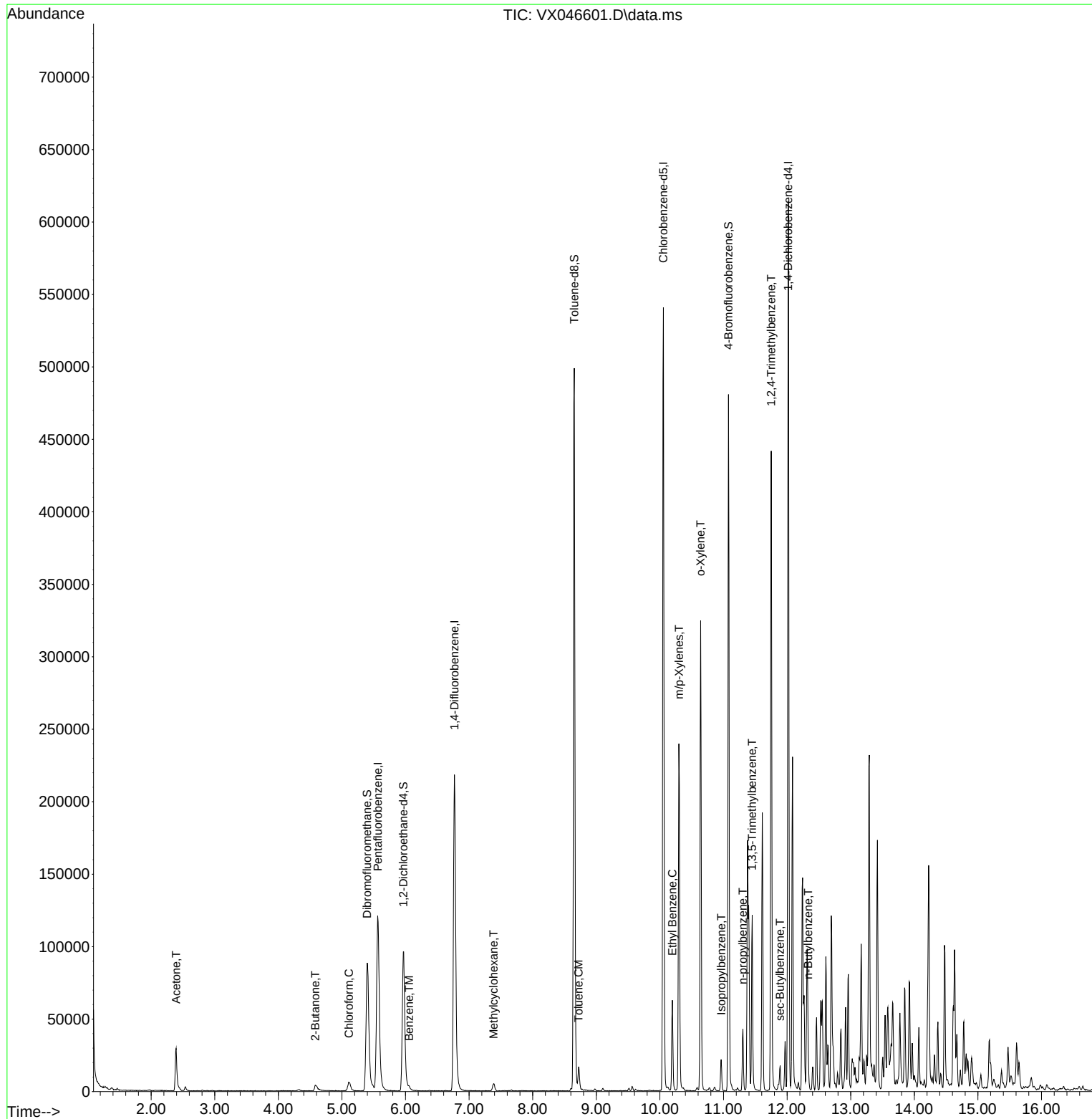
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Data File : VX046601.D
Acq On : 10 Jun 2025 14:38
Operator : JC/MD
Sample : Q2230-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

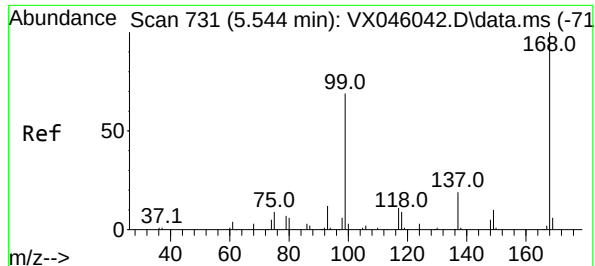
Instrument :
MSVOA_X
ClientSampleId :
GW-MW901-060425

Manual Integrations
APPROVED

Reviewed By : John Carlone 06/11/2025
Supervised By : Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 01:48:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration





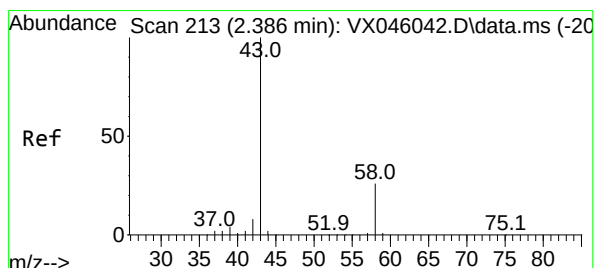
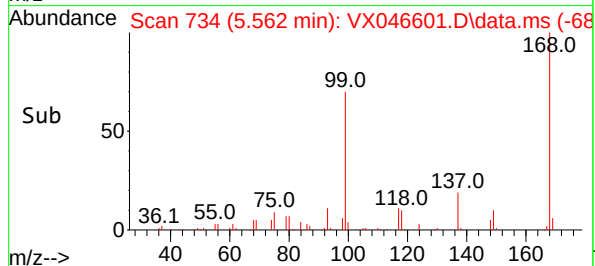
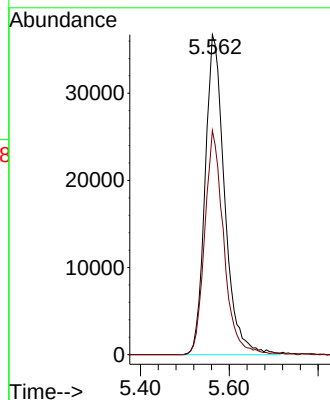
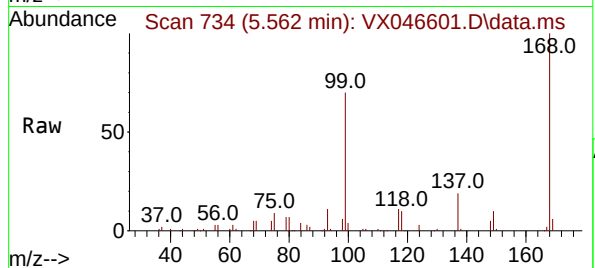
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX046601.D
Acq: 10 Jun 2025 14:38

Instrument :
MSVOA_X
ClientSampleId :
GW-MW901-060425

Tgt Ion:168 Resp: 11223
Ion Ratio Lower Upper
168 100
99 70.1 54.9 82.3

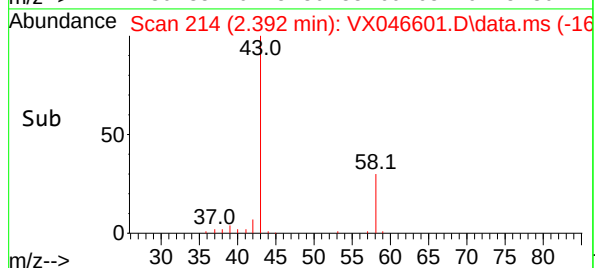
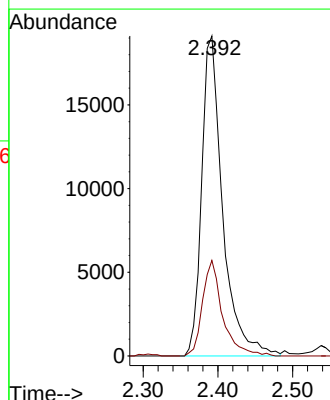
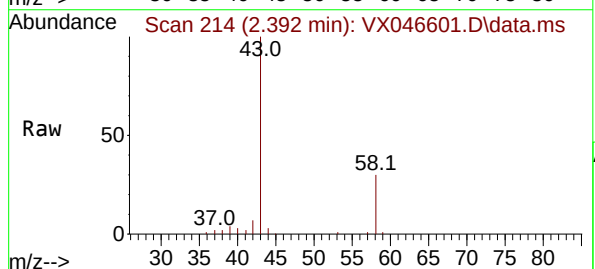
Manual Integrations
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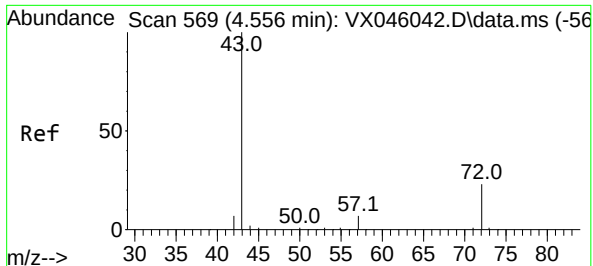
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#16
Acetone
Concen: 51.274 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX046601.D
Acq: 10 Jun 2025 14:38

Tgt Ion: 43 Resp: 37286
Ion Ratio Lower Upper
43 100
58 29.8 21.2 31.8





#25

2-Butanone

Concen: 8.394 ug/l

RT: 4.580 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX046601.D

Acq: 10 Jun 2025 14:38

Instrument :

MSVOA_X

ClientSampleId :

GW-MW901-060425

Tgt Ion: 43 Resp: 9330

Ion Ratio Lower Upper

43 100

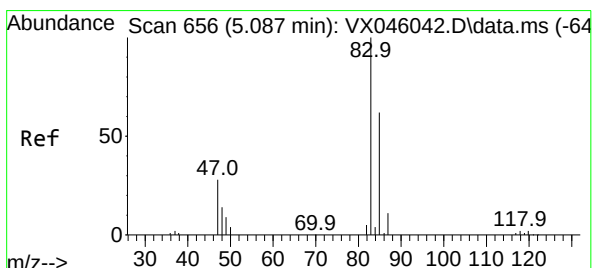
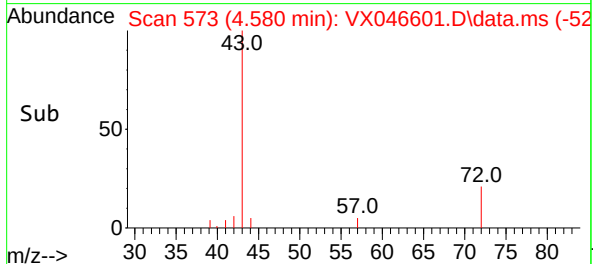
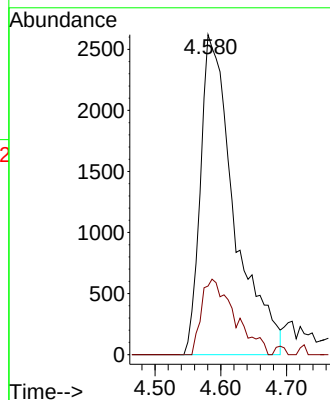
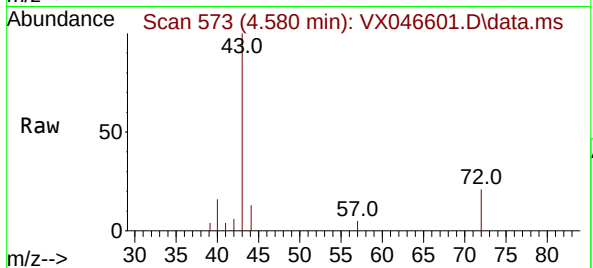
72 21.5 18.4 27.6

Manual Integrations

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Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#30

Chloroform

Concen: 2.715 ug/l

RT: 5.111 min Scan# 660

Delta R.T. -0.000 min

Lab File: VX046601.D

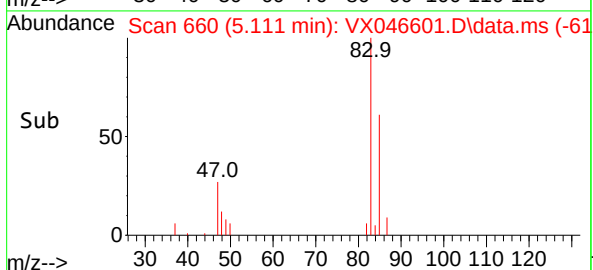
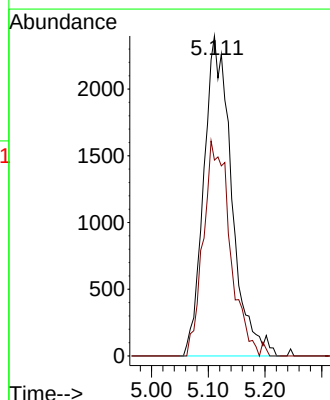
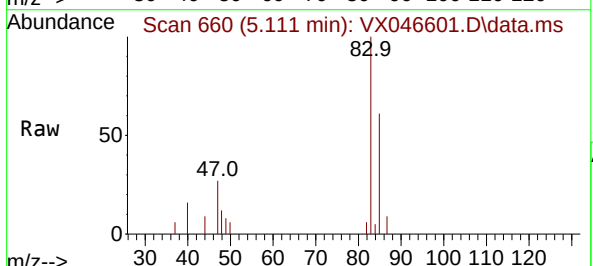
Acq: 10 Jun 2025 14:38

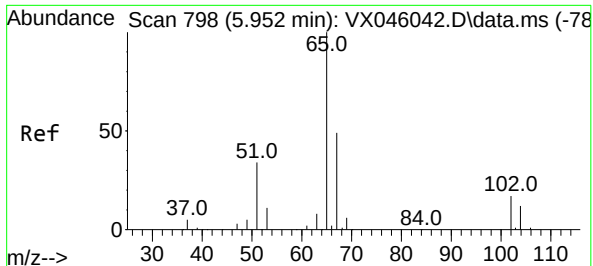
Tgt Ion: 83 Resp: 8181

Ion Ratio Lower Upper

83 100

85 61.2 49.3 73.9





#33

1,2-Dichloroethane-d4

Concen: 50.233 ug/l

RT: 5.964 min Scan# 800

Delta R.T. -0.006 min

Lab File: VX046601.D

Acq: 10 Jun 2025 14:38

Instrument :

MSVOA_X

ClientSampleId :

GW-MW901-060425

Tgt Ion: 65 Resp: 100300

Ion Ratio Lower Upper

65 100

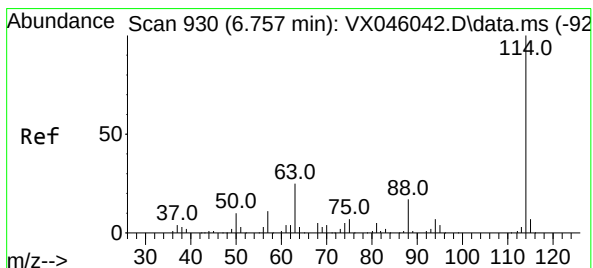
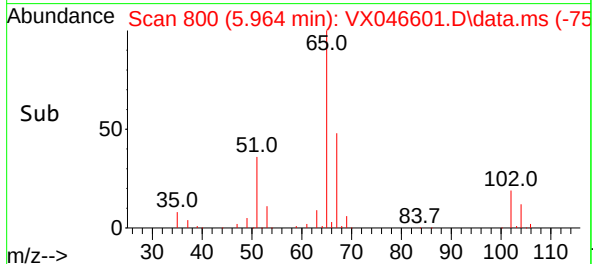
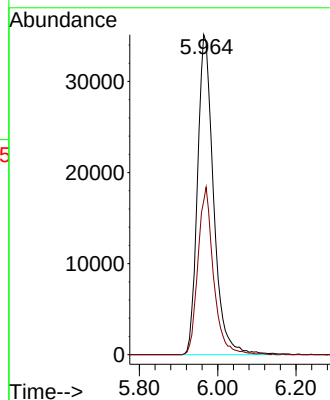
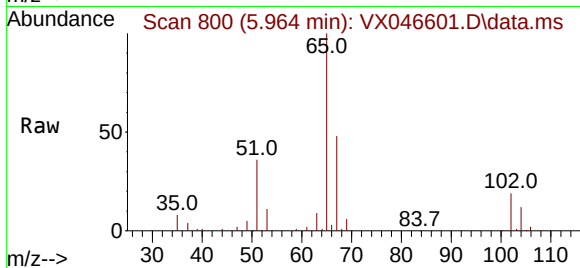
67 50.7 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.006 min

Lab File: VX046601.D

Acq: 10 Jun 2025 14:38

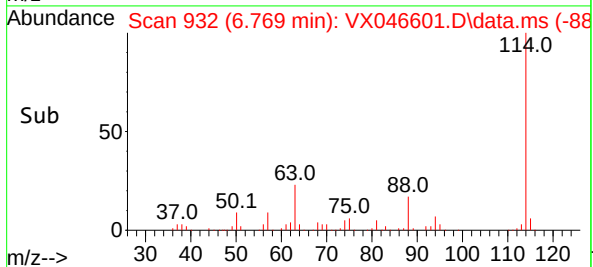
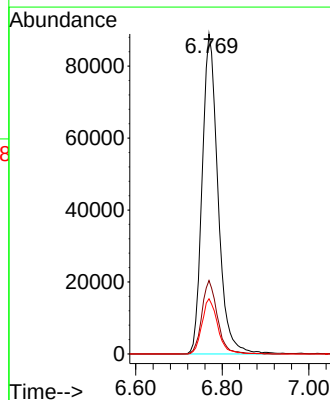
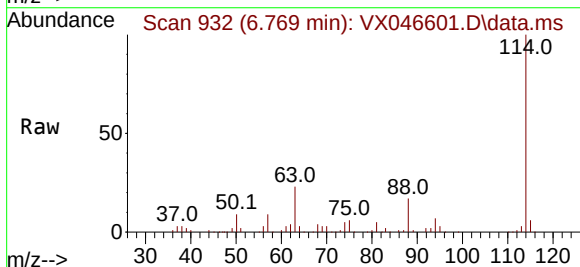
Tgt Ion:114 Resp: 225068

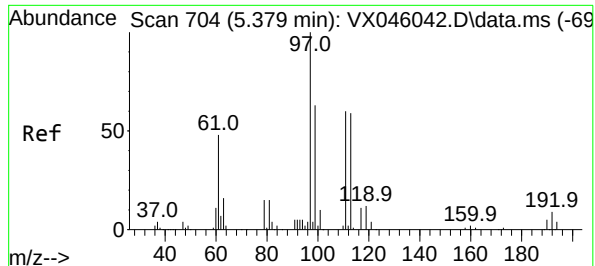
Ion Ratio Lower Upper

114 100

63 22.9 0.0 49.2

88 17.2 0.0 33.6





#35

Dibromofluoromethane

Concen: 49.936 ug/l

RT: 5.397 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX046601.D

Acq: 10 Jun 2025 14:38

Instrument :

MSVOA_X

ClientSampleId :

GW-MW901-060425

Tgt Ion:113 Resp: 82652

Ion Ratio Lower Upper

113 100

111 103.8 83.1 124.7

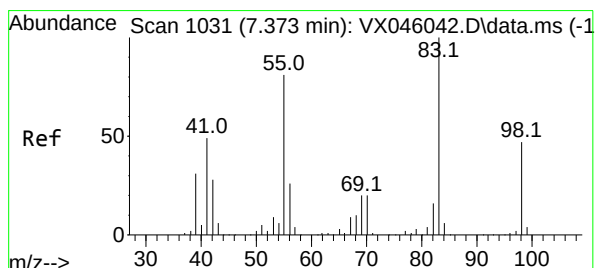
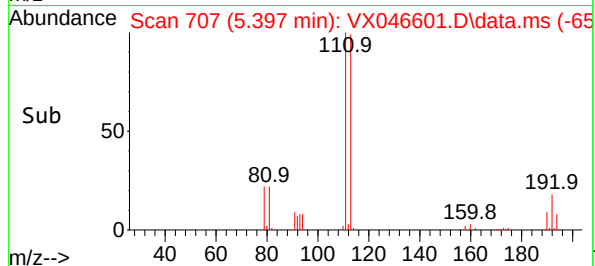
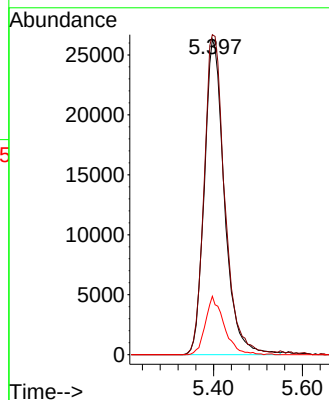
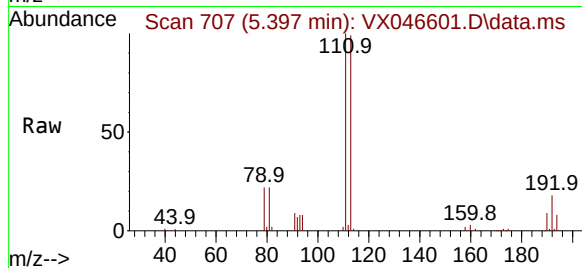
192 17.3 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#39

Methylcyclohexane

Concen: 0.780 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.006 min

Lab File: VX046601.D

Acq: 10 Jun 2025 14:38

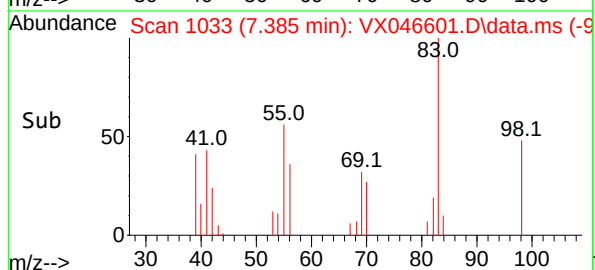
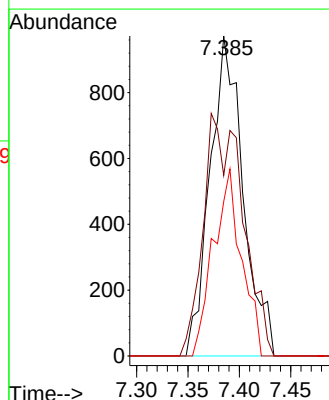
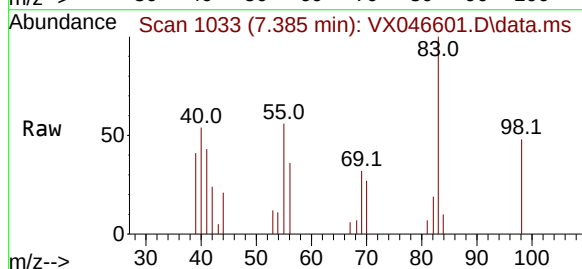
Tgt Ion: 83 Resp: 2176

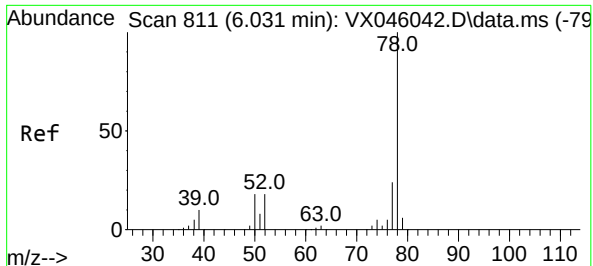
Ion Ratio Lower Upper

83 100

55 56.5 64.7 97.1#

98 48.3 37.4 56.2





#40

Benzene

Concen: 0.320 ug/l

RT: 6.056 min Scan# 811

Delta R.T. -0.000 min

Lab File: VX046601.D

Acq: 10 Jun 2025 14:38

Instrument :

MSVOA_X

ClientSampleId :

GW-MW901-060425

Tgt Ion: 78 Resp: 2130

Ion Ratio Lower Upper

78 100

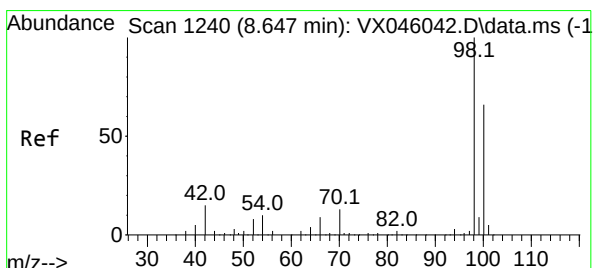
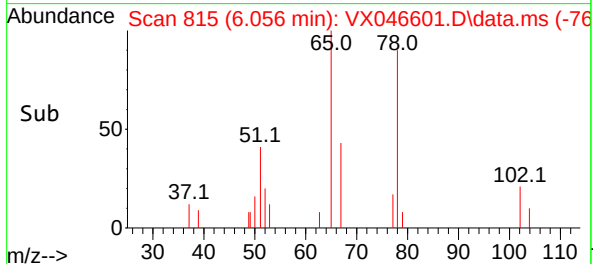
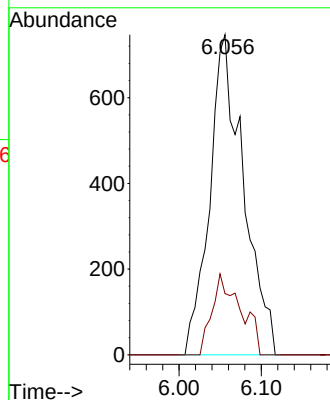
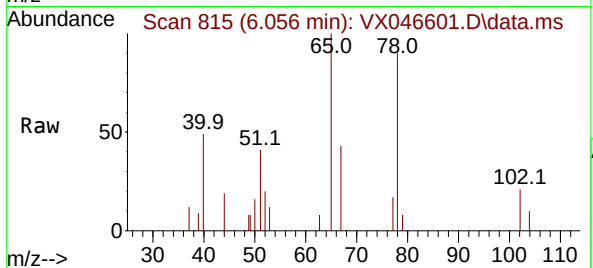
77 19.1 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#50

Toluene-d8

Concen: 54.315 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX046601.D

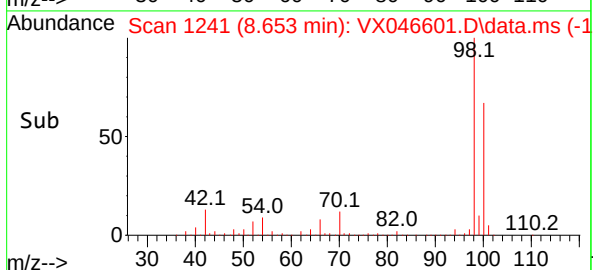
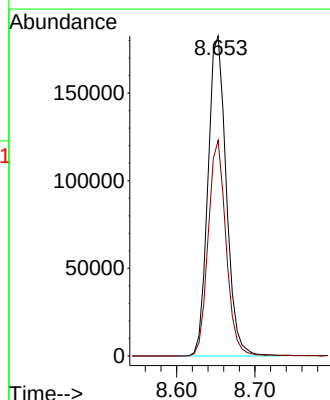
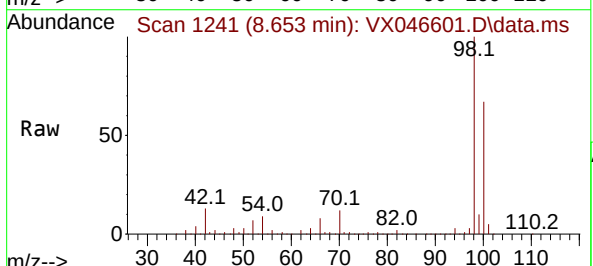
Acq: 10 Jun 2025 14:38

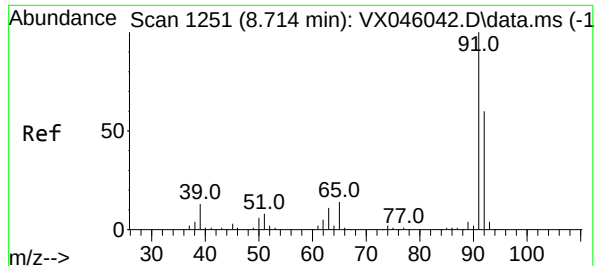
Tgt Ion: 98 Resp: 296387

Ion Ratio Lower Upper

98 100

100 65.7 53.5 80.3





#52

Toluene

Concen: 1.563 ug/l

RT: 8.720 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX046601.D

Acq: 10 Jun 2025 14:38

Instrument :

MSVOA_X

ClientSampleId :

GW-MW901-060425

Tgt Ion: 92 Resp: 639

Ion Ratio Lower Upper

92 100

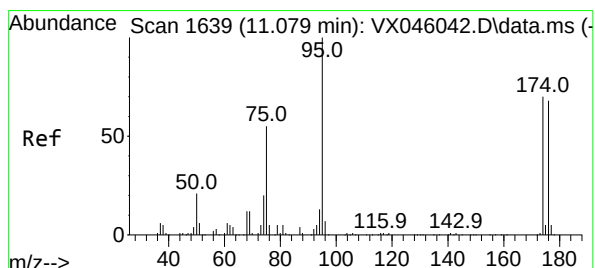
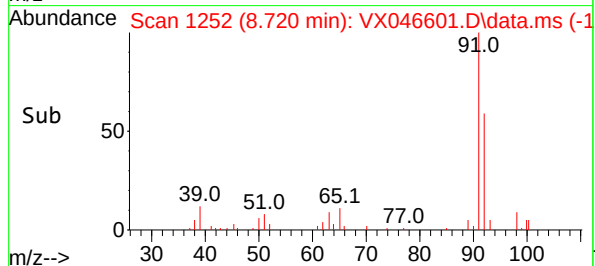
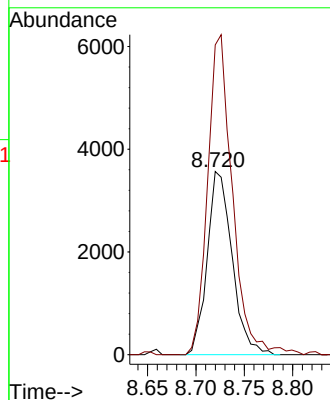
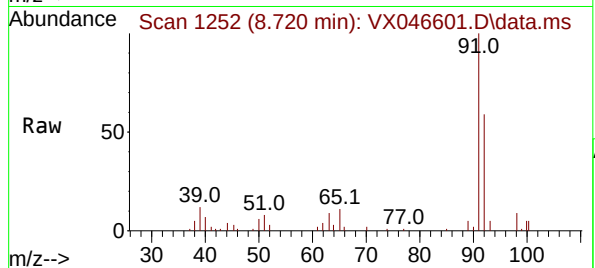
91 173.9 136.6 205.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#62

4-Bromofluorobenzene

Concen: 55.586 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046601.D

Acq: 10 Jun 2025 14:38

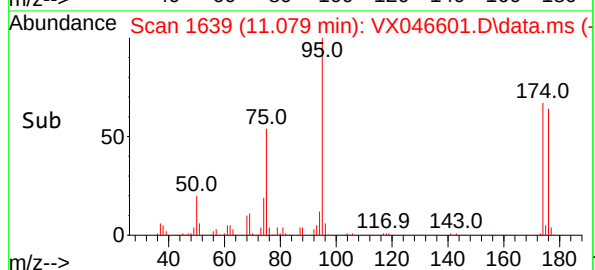
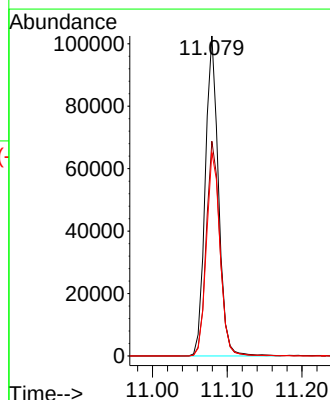
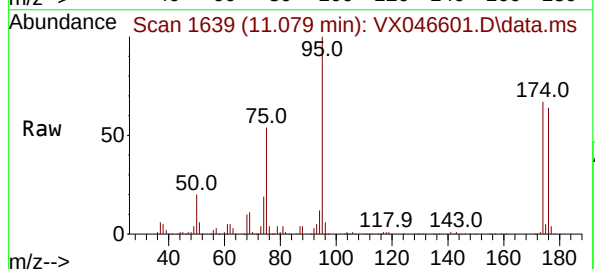
Tgt Ion: 95 Resp: 125497

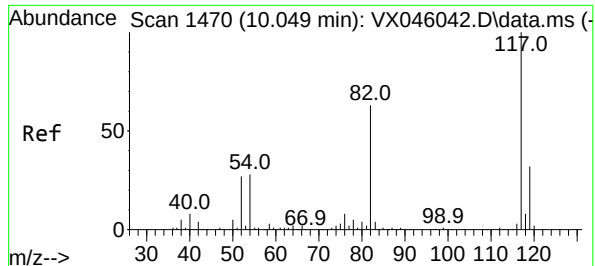
Ion Ratio Lower Upper

95 100

174 68.6 0.0 135.8

176 65.8 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX046601.D

Acq: 10 Jun 2025 14:38

Instrument :

MSVOA_X

ClientSampleId :

GW-MW901-060425

Tgt Ion:117 Resp: 232450

Ion Ratio Lower Upper

117 100

82 57.1 50.6 76.0

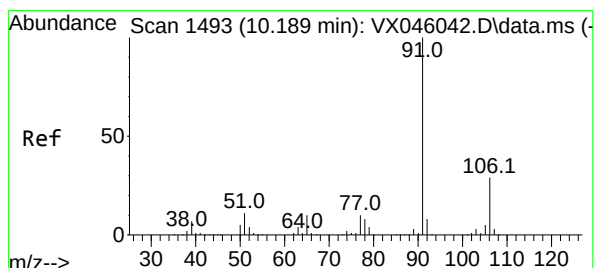
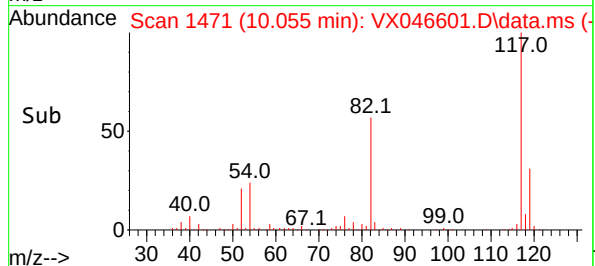
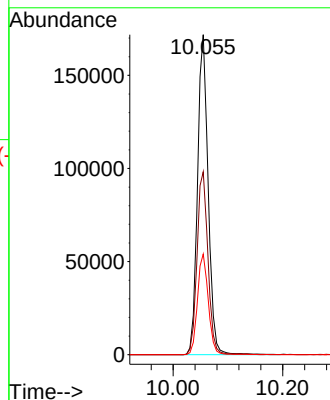
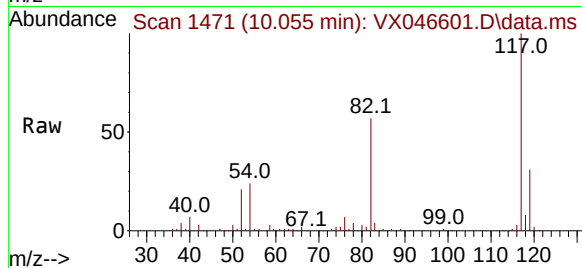
119 31.4 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#67

Ethyl Benzene

Concen: 3.738 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX046601.D

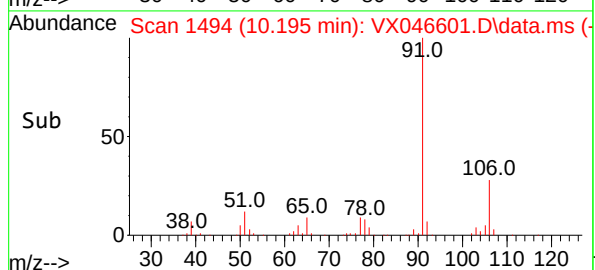
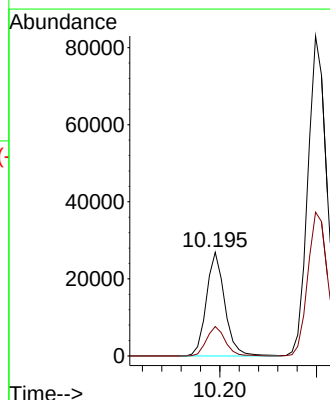
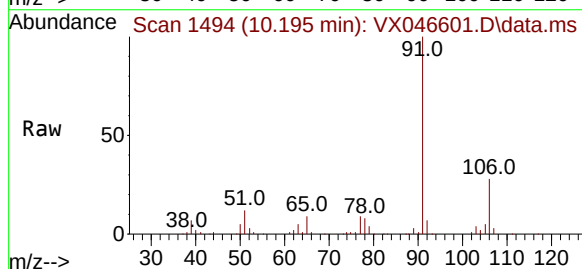
Acq: 10 Jun 2025 14:38

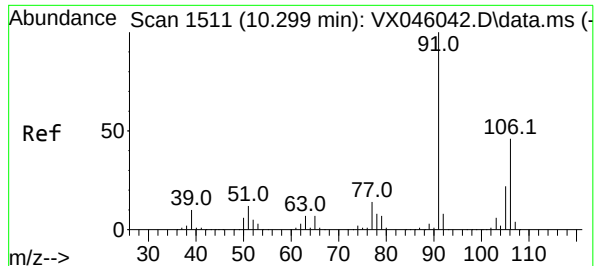
Tgt Ion: 91 Resp: 35673

Ion Ratio Lower Upper

91 100

106 28.5 23.4 35.2





#68

m/p-Xylenes

Concen: 15.428 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX046601.D

Acq: 10 Jun 2025 14:38

Instrument :

MSVOA_X

ClientSampleId :

GW-MW901-060425

Tgt Ion:106 Resp: 5341

Ion Ratio Lower Upper

106 100

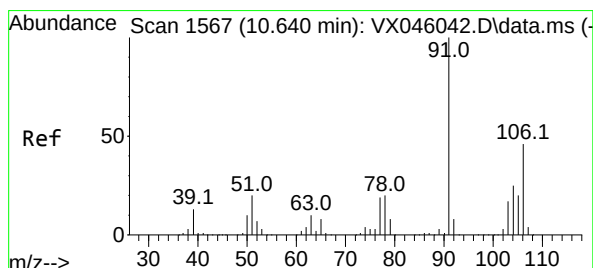
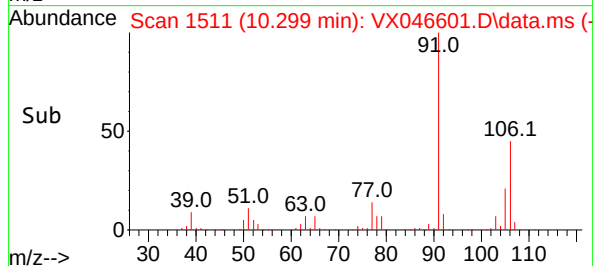
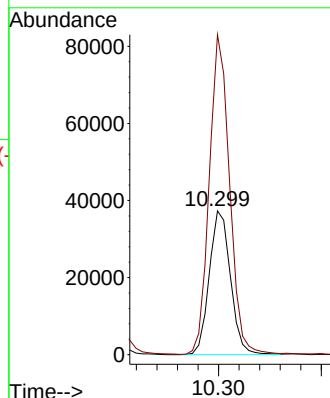
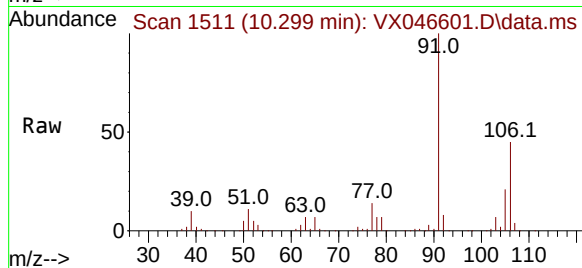
91 213.7 171.2 256.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#69

o-Xylene

Concen: 19.229 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX046601.D

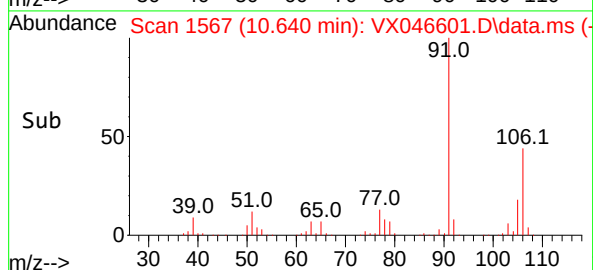
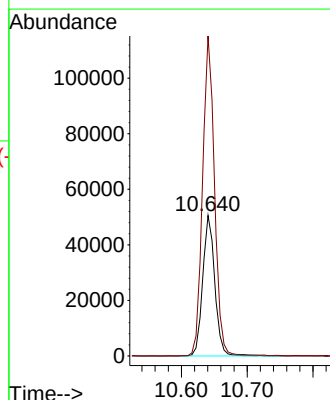
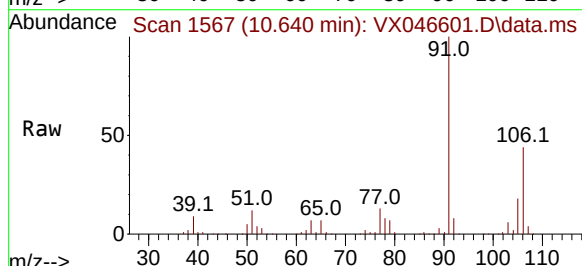
Acq: 10 Jun 2025 14:38

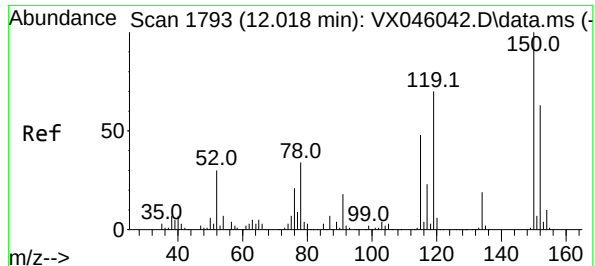
Tgt Ion:106 Resp: 64394

Ion Ratio Lower Upper

106 100

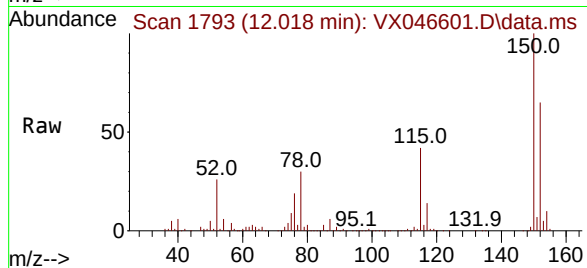
91 226.5 112.7 338.1





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX046601.D
Acq: 10 Jun 2025 14:38

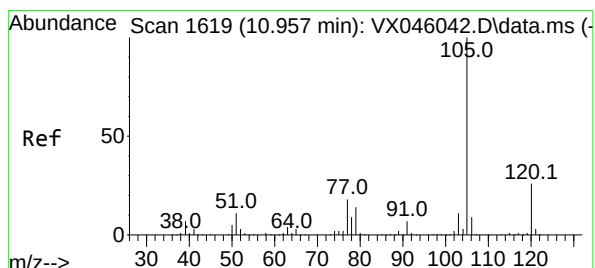
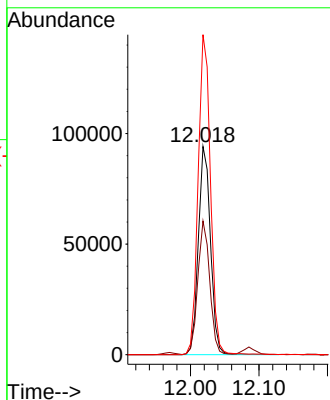
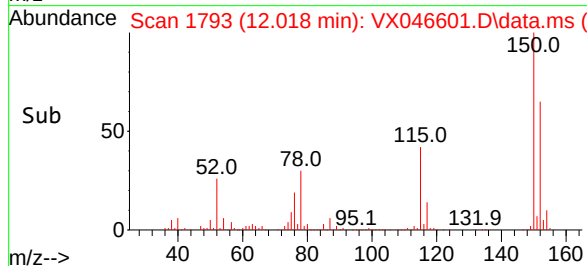
Instrument :
MSVOA_X
ClientSampleId :
GW-MW901-060425



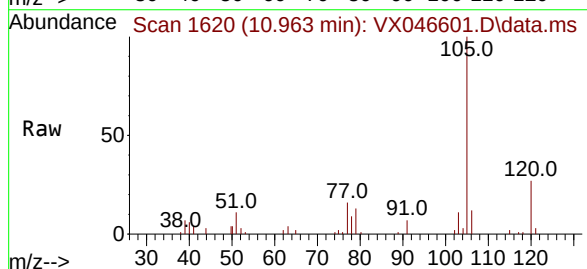
Tgt Ion:152 Resp: 116598
Ion Ratio Lower Upper
152 100
115 62.9 46.9 140.7
150 155.3 0.0 351.0

Manual Integrations
APPROVED

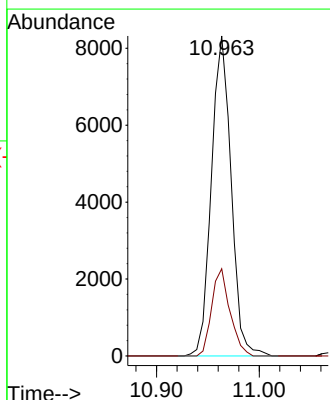
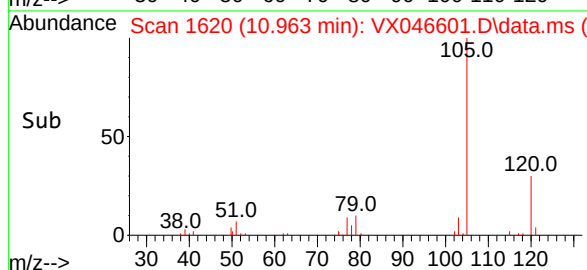
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

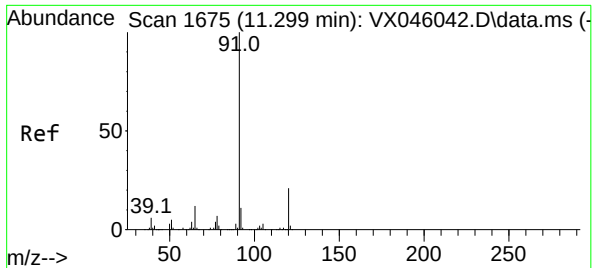


#73
Isopropylbenzene
Concen: 1.209 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX046601.D
Acq: 10 Jun 2025 14:38



Tgt Ion:105 Resp: 11077
Ion Ratio Lower Upper
105 100
120 25.2 12.8 38.4





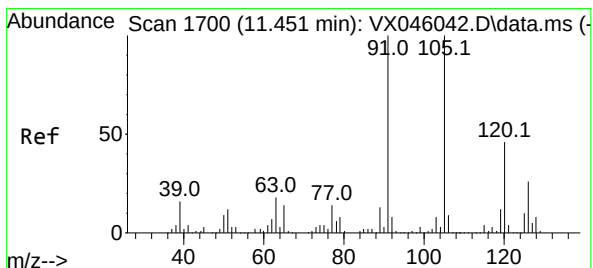
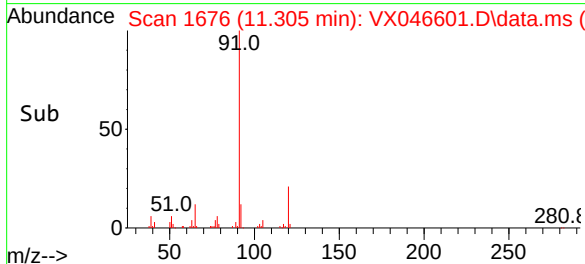
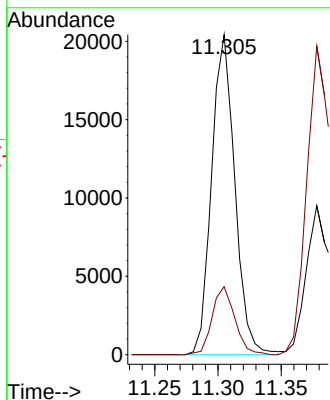
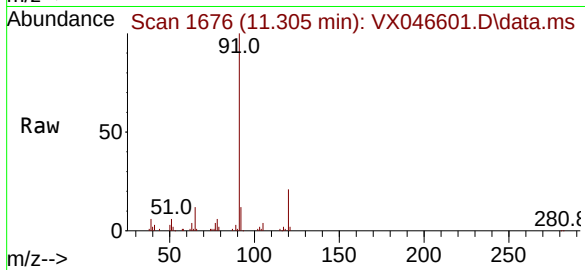
#78
n-propylbenzene
Concen: 2.349 ug/l
RT: 11.305 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX046601.D
Acq: 10 Jun 2025 14:38

Instrument :
MSVOA_X
ClientSampleId :
GW-MW901-060425

Tgt Ion: 91 Resp: 26062
Ion Ratio Lower Upper
91 100
120 20.7 10.8 32.4

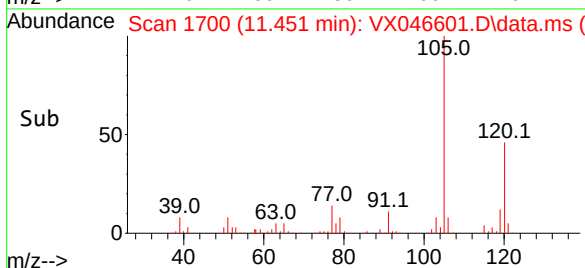
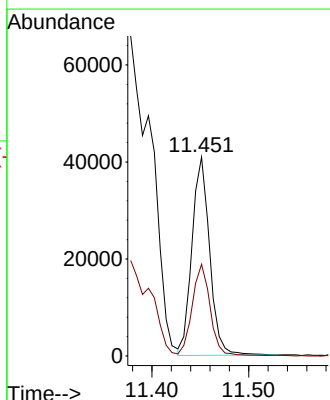
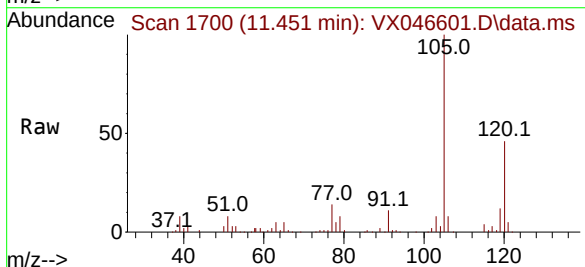
Manual Integrations
APPROVED

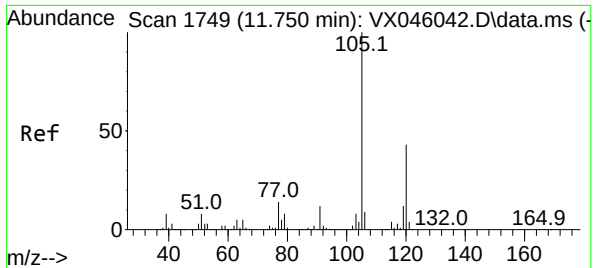
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#80
1,3,5-Trimethylbenzene
Concen: 6.829 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046601.D
Acq: 10 Jun 2025 14:38

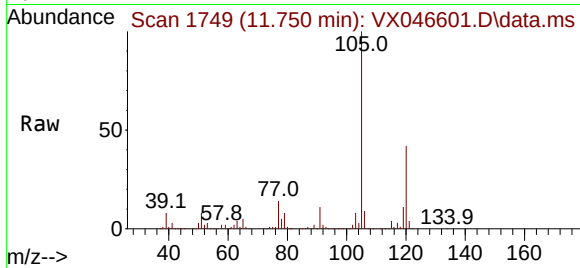
Tgt Ion:105 Resp: 52157
Ion Ratio Lower Upper
105 100
120 46.0 23.1 69.2





#84
1,2,4-Trimethylbenzene
Concen: 24.799 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046601.D
Acq: 10 Jun 2025 14:38

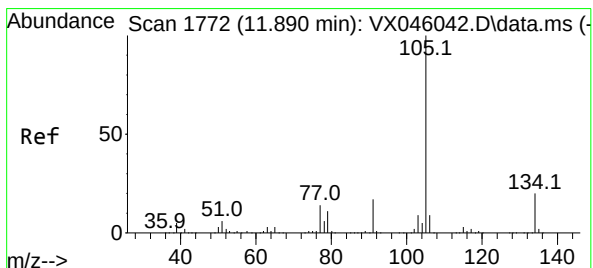
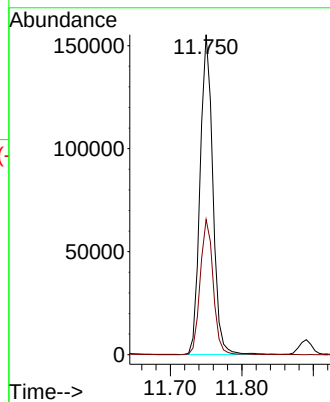
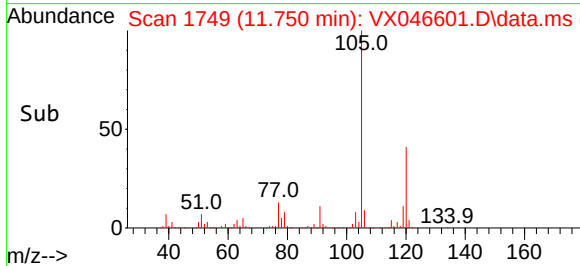
Instrument :
MSVOA_X
ClientSampleId :
GW-MW901-060425



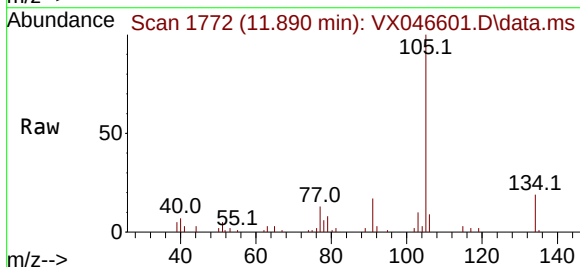
Tgt Ion:105 Resp: 19161
Ion Ratio Lower Upper
105 100
120 43.3 21.2 63.6

Manual Integrations
APPROVED

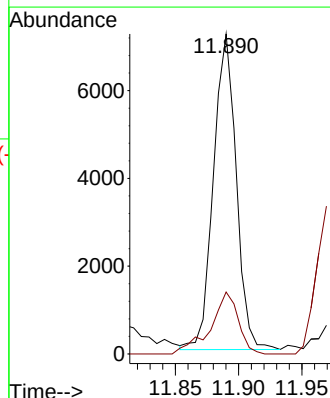
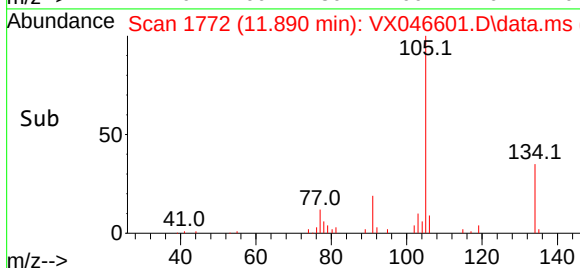
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

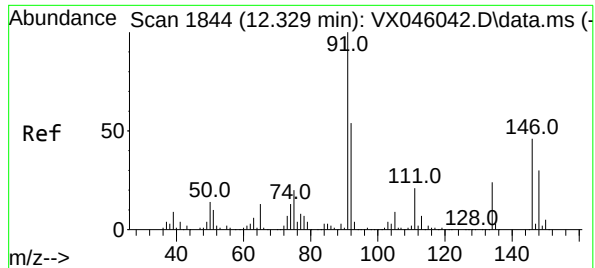


#85
sec-Butylbenzene
Concen: 0.901 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX046601.D
Acq: 10 Jun 2025 14:38



Tgt Ion:105 Resp: 9000
Ion Ratio Lower Upper
105 100
134 23.8 9.7 29.1





#89

n-Butylbenzene

Concen: 1.183 ug/l m

RT: 12.329 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX046601.D

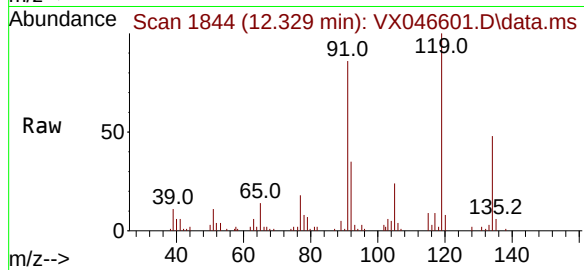
Acq: 10 Jun 2025 14:38

Instrument :

MSVOA_X

ClientSampleId :

GW-MW901-060425



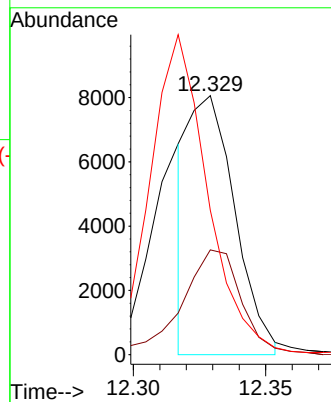
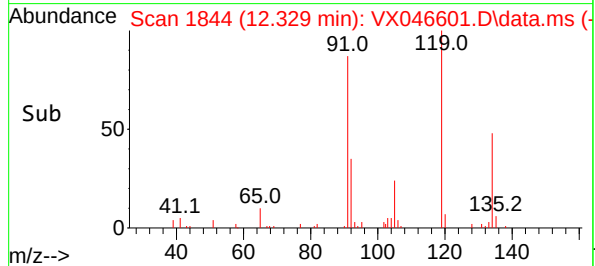
Tgt Ion:	91	Resp:	9674
Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.9	80.7
134	0.0	11.8	35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



Report of Analysis

Client:	CDM Smith	Date Collected:	06/04/25
Project:	Con Ed UTEN Mount Vernon, NY	Date Received:	06/04/25
Client Sample ID:	TB060425	SDG No.:	Q2230
Lab Sample ID:	Q2230-06	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046595.D	1		06/10/25 12:30	VX061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	1.00	U	0.15	1.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
1330-20-7	Total Xylenes	3.00	U	0.36	3.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.12	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.13	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.15	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.14	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.13	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.13	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.15	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.3		74 - 125	101%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	54.5		86 - 113	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.3		77 - 121	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	115000	5.568			
540-36-3	1,4-Difluorobenzene	224000	6.769			
3114-55-4	Chlorobenzene-d5	234000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	116000	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\VX061025\
Data File : VX046595.D
Acq On : 10 Jun 2025 12:30
Operator : JC/MD
Sample : Q2230-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB060425

Quant Time: Jun 11 01:45:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	114604	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	224360	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	234275	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	115739	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	102624	50.332	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	100.660%
35) Dibromofluoromethane	5.397	113	83570	50.650	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.300%
50) Toluene-d8	8.653	98	296532	54.513	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	109.020%
62) 4-Bromofluorobenzene	11.079	95	124548	55.339	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	110.680%

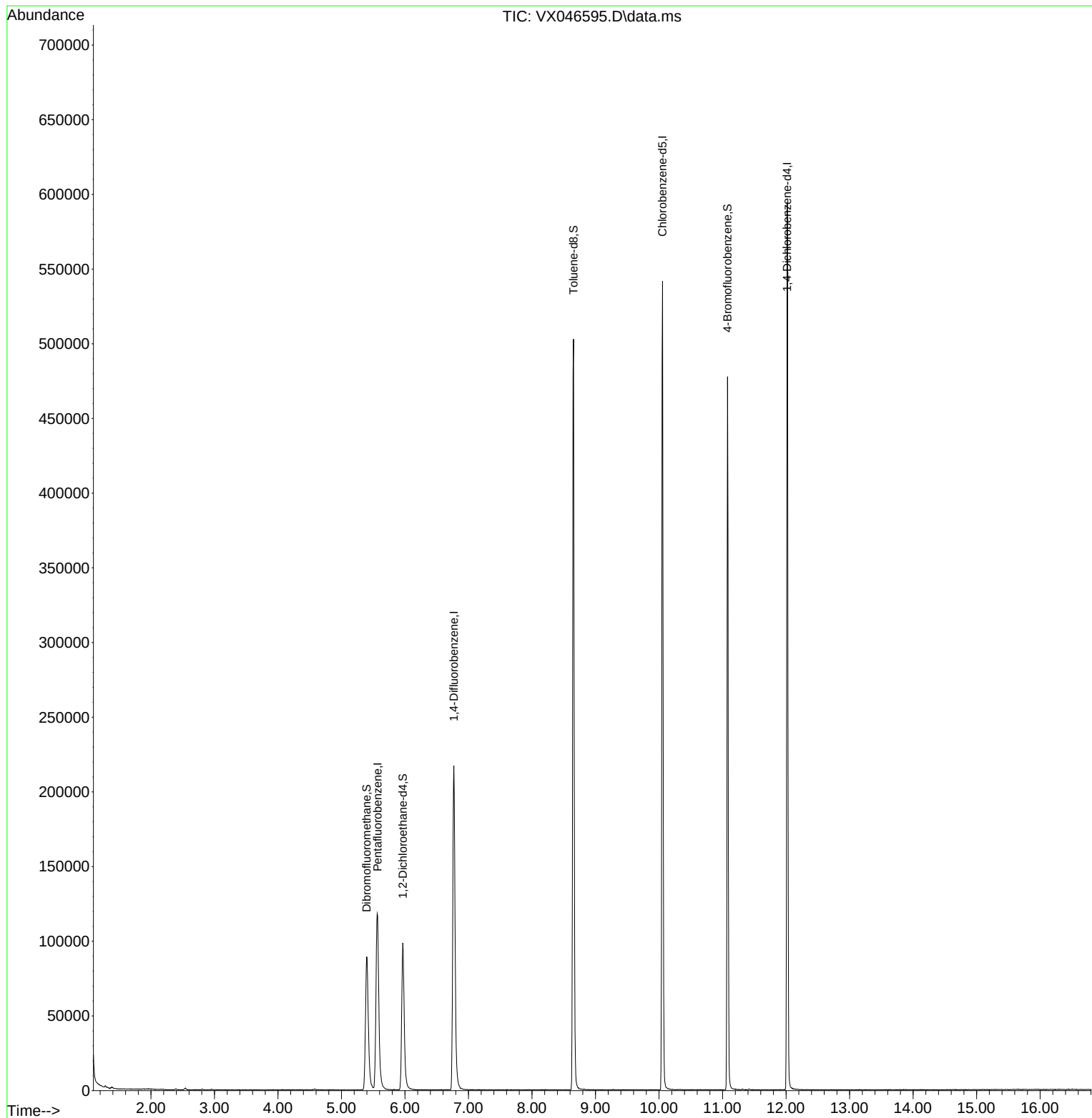
Target Compounds	Qvalue
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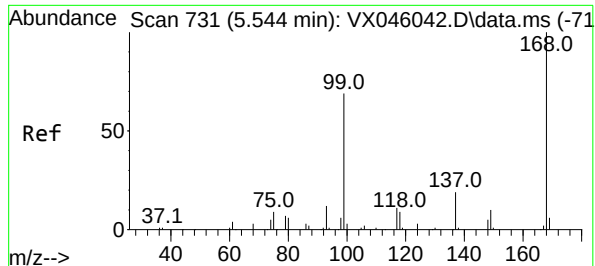
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046595.D
Acq On : 10 Jun 2025 12:30
Operator : JC/MD
Sample : Q2230-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB060425

Quant Time: Jun 11 01:45:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

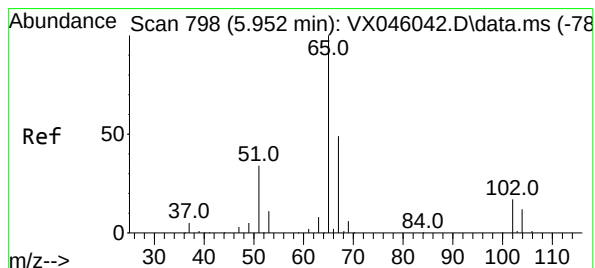
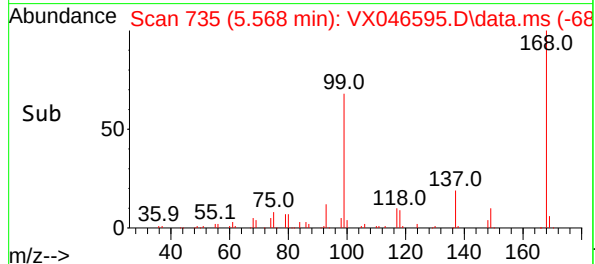
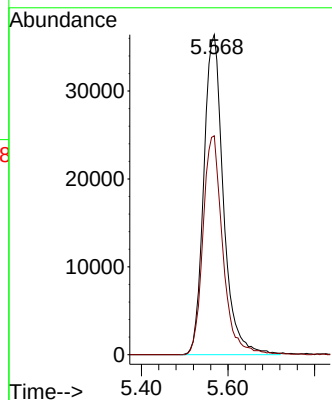
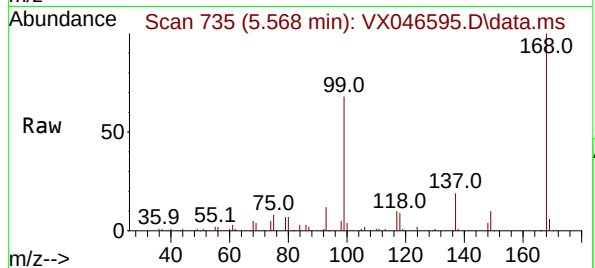




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX046595.D
Acq: 10 Jun 2025 12:30

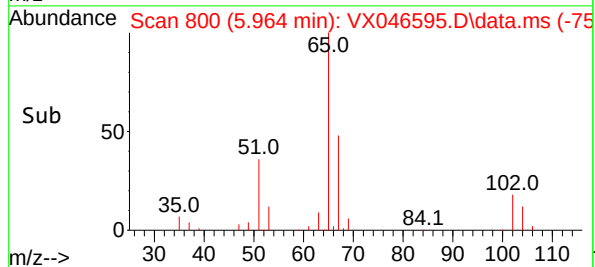
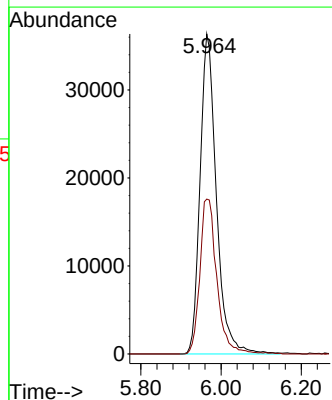
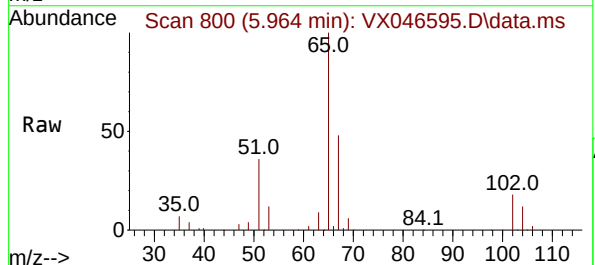
Instrument :
MSVOA_X
ClientSampleId :
TB060425

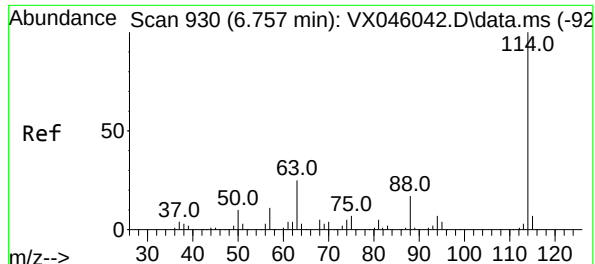
Tgt Ion:168 Resp: 114604
Ion Ratio Lower Upper
168 100
99 68.4 54.9 82.3



#33
1,2-Dichloroethane-d4
Concen: 50.332 ug/l
RT: 5.964 min Scan# 800
Delta R.T. -0.006 min
Lab File: VX046595.D
Acq: 10 Jun 2025 12:30

Tgt Ion: 65 Resp: 102624
Ion Ratio Lower Upper
65 100
67 50.5 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX046595.D

Acq: 10 Jun 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

TB060425

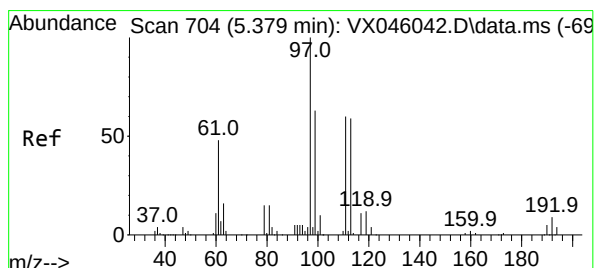
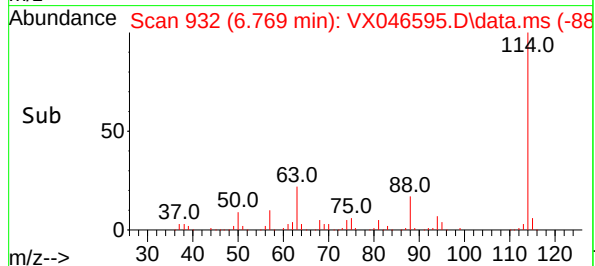
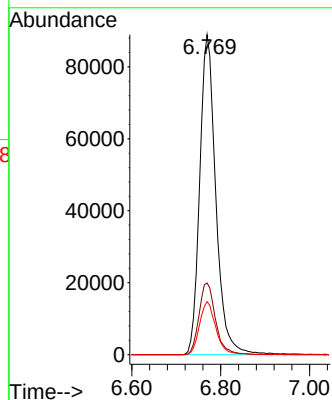
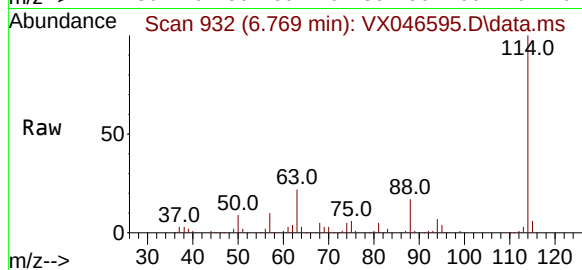
Tgt Ion:114 Resp: 224360

Ion Ratio Lower Upper

114 100

63 22.4 0.0 49.2

88 16.5 0.0 33.6



#35

Dibromofluoromethane

Concen: 50.650 ug/l

RT: 5.397 min Scan# 707

Delta R.T. -0.006 min

Lab File: VX046595.D

Acq: 10 Jun 2025 12:30

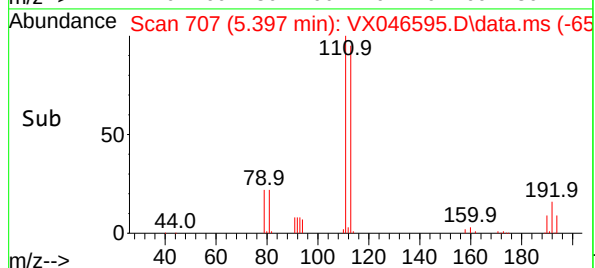
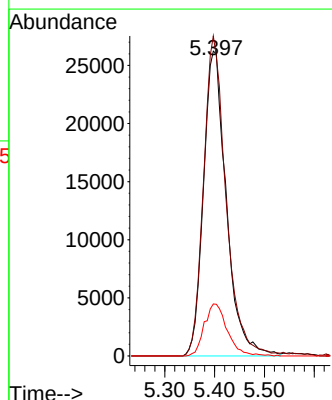
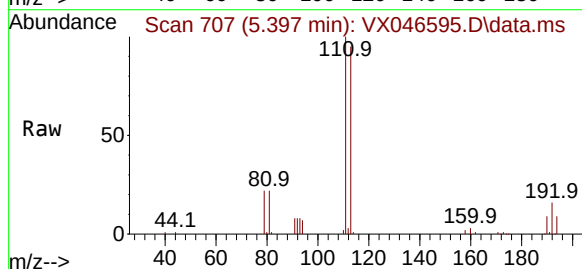
Tgt Ion:113 Resp: 83570

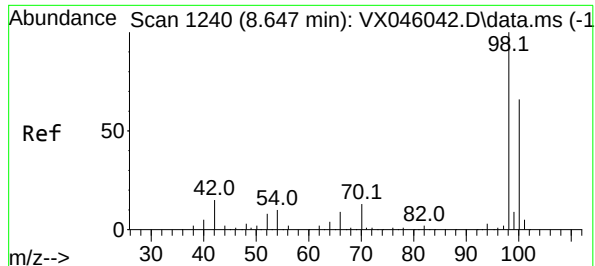
Ion Ratio Lower Upper

113 100

111 102.6 83.1 124.7

192 17.2 13.3 19.9





#50

Toluene-d8

Concen: 54.513 ug/l

RT: 8.653 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX046595.D

Acq: 10 Jun 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

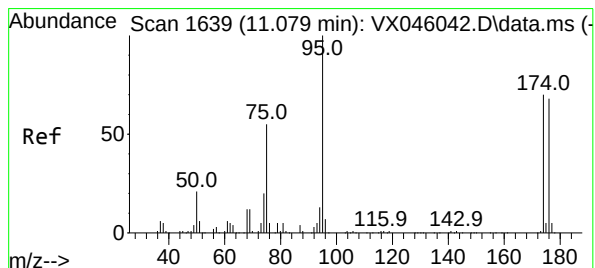
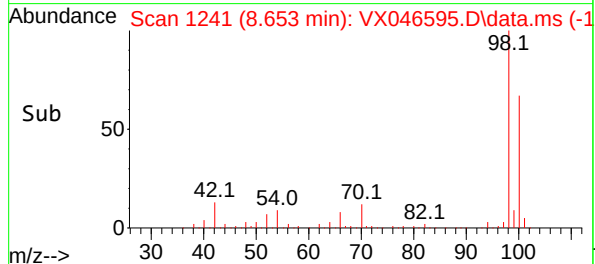
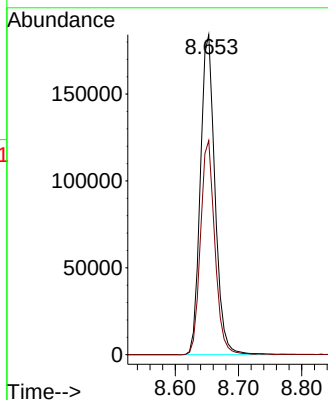
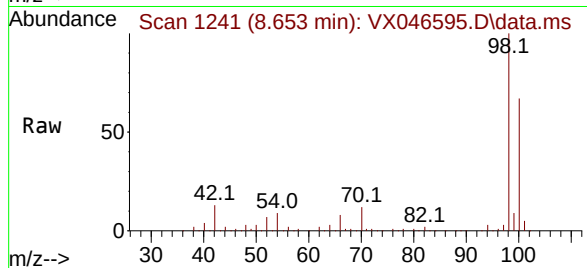
TB060425

Tgt Ion: 98 Resp: 296532

Ion Ratio Lower Upper

98 100

100 65.6 53.5 80.3



#62

4-Bromofluorobenzene

Concen: 55.339 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046595.D

Acq: 10 Jun 2025 12:30

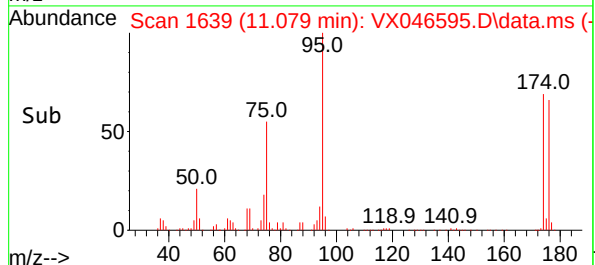
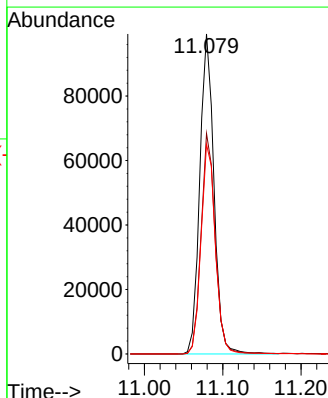
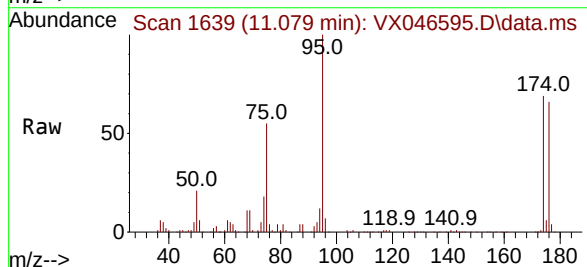
Tgt Ion: 95 Resp: 124548

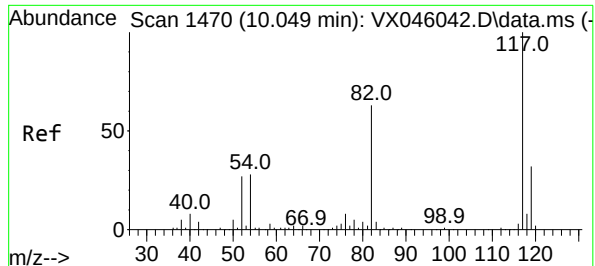
Ion Ratio Lower Upper

95 100

174 68.8 0.0 135.8

176 66.6 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX046595.D

Acq: 10 Jun 2025 12:30

Instrument :

MSVOA_X

ClientSampleId :

TB060425

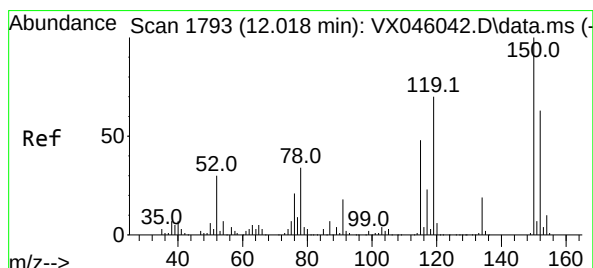
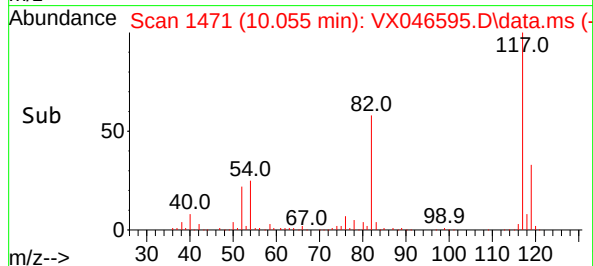
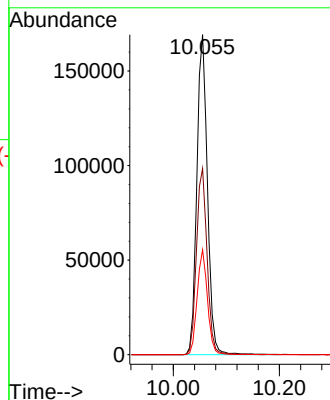
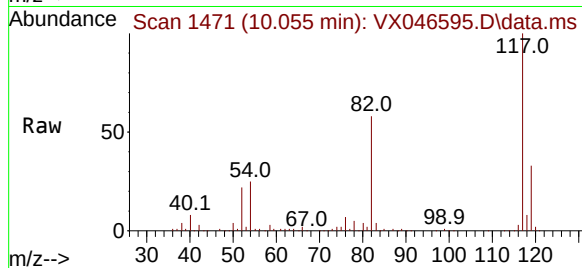
Tgt Ion:117 Resp: 234275

Ion Ratio Lower Upper

117 100

82 58.2 50.6 76.0

119 32.8 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.006 min

Lab File: VX046595.D

Acq: 10 Jun 2025 12:30

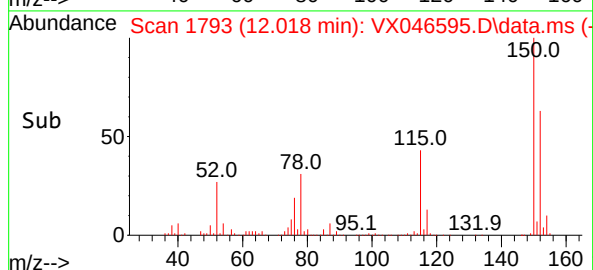
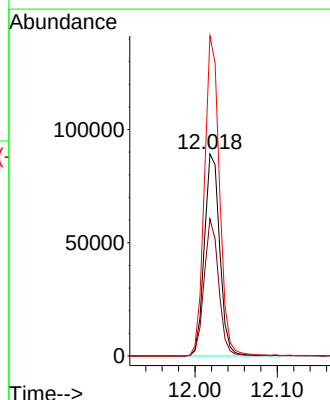
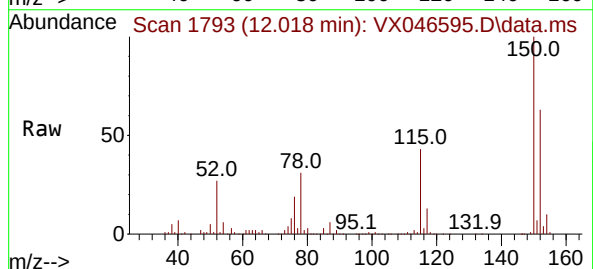
Tgt Ion:152 Resp: 115739

Ion Ratio Lower Upper

152 100

115 64.3 46.9 140.7

150 155.2 0.0 351.0





CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CAMP02
 Lab Code: CHEM Case No.: Q2230 SAS No.: Q2230 SDG No.: Q2230
 Instrument ID: MSVOA_X Calibration Date(s): 06/06/2025 06/06/2025
 Heated Purge: (Y/N) N Calibration Time(s): 09:42 12:57
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF005 = VX046518.D		RRF020 = VX046519.D		RRF050 = VX046520.D			
		RRF100 = VX046521.D		RRF150 = VX046522.D		RRF001 = VX046524.D			
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF001	RRF	% RSD	
Benzene	1.597	1.503	1.427	1.380	1.442	1.522	1.479	5.3	
Toluene	0.980	0.911	0.884	0.849	0.888	0.938	0.908	5	
Ethyl Benzene	2.093	2.029	2.018	1.971	2.041	2.166	2.053	3.3	
m/p-Xylenes	0.756	0.750	0.737	0.714	0.738	0.773	0.745	2.7	
o-Xylene	0.728	0.731	0.716	0.703	0.724	0.719	0.720	1.4	
Isopropylbenzene	3.936	3.949	3.909	3.828	4.064	3.896	3.930	2	
n-propylbenzene	4.659	4.775	4.693	4.553	4.813	5.051	4.757	3.6	
1,3,5-Trimethylbenzene	3.329	3.297	3.243	3.147	3.314	3.322	3.275	2.1	
tert-Butylbenzene	3.341	3.364	3.287	3.248	3.482	3.284	3.334	2.5	
1,2,4-Trimethylbenzene	3.309	3.360	3.256	3.194	3.356	3.406	3.313	2.3	
sec-Butylbenzene	4.350	4.296	4.172	4.096	4.334	4.458	4.284	3	
p-Isopropyltoluene	3.509	3.554	3.484	3.397	3.575	3.910	3.572	5	
n-Butylbenzene	3.319	3.378	3.354	3.310	3.487	4.197	3.507	9.8	
1,2-Dichloroethane-d4	0.997	0.848	0.873	0.828	0.900		0.890	7.4	
Dibromofluoromethane	0.392	0.353	0.368	0.347	0.379		0.368	5	
Toluene-d8	1.362	1.159	1.188	1.132	1.220		1.212	7.4	
4-Bromofluorobenzene	0.564	0.482	0.493	0.468	0.501		0.502	7.4	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X060625W.M
 Title : SW846 8260
 Last Update : Fri Jun 06 16:56:12 2025
 Response Via : Initial Calibration

Calibration Files

1 =VX046524.D 5 =VX046518.D 20 =VX046519.D 50 =VX046520.D 100 =VX046521.D 150 =VX046522.D

Compound		1	5	20	50	100	150	Avg	%RSD

1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.838	0.740	0.653	0.645	0.635	0.654	0.694	11.52
3) P	Chloromethane	0.713	0.737	0.586	0.573	0.568	0.614	0.632	11.76
4) C	Vinyl Chloride	0.679	0.697	0.593	0.596	0.591	0.622	0.630	7.46#
5) T	Bromomethane		0.592	0.429	0.398	0.256	0.237	0.382	37.77
6) T	Chloroethane	0.509	0.456	0.384	0.373	0.357	0.373	0.409	14.73
7) T	Trichlorofluor...	1.019	1.136	1.055	1.021	0.988	1.034	1.042	4.89
8) T	Diethyl Ether	0.412	0.368	0.355	0.356	0.349	0.368	0.368	6.23
9) T	1,1,2-Trichlor...	0.697	0.699	0.651	0.638	0.616	0.639	0.657	5.19
10) T	Methyl Iodide		0.653	0.664	0.716	0.744	0.782	0.712	7.65
11) T	Tert butyl alc...		0.087	0.090	0.098	0.104	0.114	0.099	10.94
12) CM	1,1-Dichloroet...	0.635	0.663	0.550	0.567	0.561	0.585	0.594	7.64#
13) T	Acrolein		0.040	0.110	0.112	0.117	0.135	0.103	35.72
14) T	Allyl chloride	1.283	1.198	1.115	1.130	1.138	1.131	1.166	5.52
15) T	Acrylonitrile	0.342	0.367	0.368	0.379	0.381	0.403	0.373	5.42
16) T	Acetone	0.566	0.347	0.334	0.340	0.341	0.360	0.381	23.86
17) T	Carbon Disulfide	2.313	1.618	1.229	1.218	1.220	1.288	1.481	29.41
18) T	Methyl Acetate	0.883	0.870	1.082	1.130	1.155	1.237	1.060	14.20
19) T	Methyl tert-bu...	1.873	2.038	2.050	2.115	2.131	2.256	2.077	6.11
20) T	Methylene Chlo...	0.868	0.752	0.676	0.662	0.646	0.678	0.714	11.77
21) T	trans-1,2-Dich...	0.785	0.661	0.580	0.582	0.567	0.594	0.628	13.34
22) T	Diisopropyl ether	2.017	2.338	2.344	2.343	2.319	2.429	2.298	6.22
23) T	Vinyl Acetate	1.639	1.727	1.682	1.828	1.831	1.940	1.775	6.31
24) P	1,1-Dichloroet...	1.281	1.349	1.266	1.259	1.234	1.297	1.281	3.09
25) T	2-Butanone	0.484	0.459	0.469	0.503	0.511	0.544	0.495	6.28
26) T	2,2-Dichloropr...	0.900	0.931	0.919	0.966	0.968	1.022	0.951	4.61
27) T	cis-1,2-Dichlo...	0.866	0.786	0.752	0.741	0.728	0.767	0.773	6.43
28) T	Bromochloromet...	0.650	0.652	0.592	0.590	0.594	0.589	0.611	5.04
29) T	Tetrahydrofuran	0.306	0.301	0.291	0.316	0.320	0.342	0.313	5.64
30) C	Chloroform	1.349	1.392	1.356	1.318	1.290	1.349	1.342	2.59#
31) T	Cyclohexane		1.172	1.012	0.995	0.974	1.018	1.034	7.64
32) T	1,1,1-Trichlor...	1.131	1.170	1.131	1.141	1.128	1.188	1.148	2.17
33) S	1,2-Dichloroet...		0.997	0.848	0.873	0.828	0.900	0.890	7.42
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.392	0.353	0.368	0.347	0.379	0.368	5.01
36) T	1,1-Dichloropr...	0.660	0.554	0.506	0.485	0.461	0.485	0.525	13.89
37) T	Ethyl Acetate	0.355	0.483	0.522	0.554	0.566	0.596	0.513	16.84
38) T	Carbon Tetrach...	0.655	0.599	0.579	0.564	0.554	0.579	0.588	6.09
39) T	Methylcyclohexane	0.725	0.696	0.576	0.572	0.565	0.587	0.620	11.41
40) TM	Benzene	1.522	1.597	1.503	1.427	1.380	1.442	1.479	5.25
41) T	Methacrylonitrile	0.279	0.310	0.335	0.323	0.320	0.344	0.318	7.09
42) TM	1,2-Dichloroet...	0.606	0.646	0.641	0.610	0.586	0.602	0.615	3.80
43) T	Isopropyl Acetate	0.772	0.842	0.887	0.923	0.935	1.002	0.894	8.92
44) TM	Trichloroethene	0.476	0.385	0.356	0.351	0.332	0.354	0.376	13.85
45) C	1,2-Dichloropr...	0.359	0.393	0.396	0.381	0.370	0.390	0.382	3.84#
46) T	Dibromomethane	0.291	0.308	0.286	0.279	0.272	0.286	0.287	4.22
47) T	Bromodichlorom...	0.534	0.580	0.617	0.603	0.589	0.618	0.590	5.32
48) T	Methyl methacr...	0.395	0.423	0.454	0.481	0.490	0.517	0.460	9.79
49) T	1,4-Dioxane	0.004	0.006	0.007	0.006	0.007	0.007	0.006	14.38
50) S	Toluene-d8		1.362	1.159	1.188	1.132	1.220	1.212	7.42
51) T	4-Methyl-2-Pen...	0.492	0.548	0.583	0.593	0.582	0.609	0.568	7.47
52) CM	Toluene	0.938	0.980	0.911	0.884	0.849	0.888	0.908	5.04#
53) T	t-1,3-Dichloro...	0.480	0.469	0.524	0.542	0.559	0.601	0.529	9.38
54) T	cis-1,3-Dichlo...	0.567	0.567	0.580	0.590	0.595	0.633	0.589	4.15
55) T	1,1,2-Trichlor...	0.331	0.375	0.389	0.366	0.356	0.372	0.365	5.41
56) T	Ethyl methacry...	0.456	0.536	0.566	0.583	0.594	0.632	0.561	10.79

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X060625W.M

57)	T	1,3-Dichloropr...	0.653	0.664	0.666	0.636	0.612	0.637	0.644	3.15
58)	T	2-Chloroethyl ...	0.278	0.301	0.302	0.316	0.312	0.326	0.306	5.46
59)	T	2-Hexanone	0.368	0.376	0.416	0.426	0.419	0.438	0.407	6.99
60)	T	Dibromochlorom...	0.405	0.431	0.438	0.432	0.422	0.447	0.429	3.35
61)	T	1,2-Dibromoethane	0.420	0.367	0.380	0.370	0.365	0.378	0.380	5.37
62)	S	4-Bromofluorob...	0.564	0.482	0.493	0.468	0.501	0.502		7.36
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.410	0.347	0.324	0.310	0.301	0.314	0.334	12.07
65)	PM	Chlorobenzene	1.356	1.187	1.152	1.126	1.096	1.139	1.176	7.91
66)	T	1,1,1,2-Tetrac...	0.362	0.394	0.401	0.403	0.404	0.420	0.397	4.87
67)	C	Ethyl Benzene	2.166	2.093	2.029	2.018	1.971	2.041	2.053	3.30#
68)	T	m/p-Xylenes	0.773	0.756	0.750	0.737	0.714	0.738	0.745	2.67
69)	T	o-Xylene	0.719	0.728	0.731	0.716	0.703	0.724	0.720	1.42
70)	T	Styrene	1.209	1.205	1.257	1.257	1.213	1.257	1.233	2.15
71)	P	Bromoform	0.286	0.269	0.300	0.311	0.317	0.335	0.303	7.76
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.896	3.936	3.949	3.909	3.828	4.064	3.930	1.98
74)	T	N-amyl acetate	1.424	1.613	1.673	1.803	1.854	2.019	1.731	11.98
75)	P	1,1,2,2-Tetrac...	1.148	1.294	1.294	1.257	1.249	1.306	1.258	4.65
76)	T	1,2,3-Trichlor...	1.091	1.022	1.076	1.049	1.025	1.092	1.059	2.97
77)	T	Bromobenzene	0.958	0.904	0.925	0.881	0.878	0.928	0.912	3.36
78)	T	n-propylbenzene	5.051	4.659	4.775	4.693	4.553	4.813	4.757	3.58
79)	T	2-Chlorotoluene	3.087	2.885	2.870	2.786	2.721	2.866	2.869	4.31
80)	T	1,3,5-Trimethy...	3.322	3.329	3.297	3.243	3.147	3.314	3.275	2.14
81)	T	trans-1,4-Dich...	0.274	0.352	0.370	0.398	0.442	0.367		16.86
82)	T	4-Chlorotoluene	3.872	3.390	3.342	3.293	3.177	3.329	3.400	7.12
83)	T	tert-Butylbenzene	3.284	3.341	3.364	3.287	3.248	3.482	3.334	2.50
84)	T	1,2,4-Trimethy...	3.406	3.309	3.360	3.256	3.194	3.356	3.313	2.34
85)	T	sec-Butylbenzene	4.458	4.350	4.296	4.172	4.096	4.334	4.284	3.04
86)	T	p-Isopropyltol...	3.910	3.509	3.554	3.484	3.397	3.575	3.572	4.96
87)	T	1,3-Dichlorobe...	2.105	1.745	1.714	1.684	1.642	1.740	1.772	9.46
88)	T	1,4-Dichlorobe...	2.421	1.804	1.736	1.675	1.627	1.752	1.836	15.98
89)	T	n-Butylbenzene	4.197	3.319	3.378	3.354	3.310	3.487	3.507	9.80
90)	T	Hexachloroethane	0.682	0.599	0.602	0.610	0.633	0.683	0.635	6.11
91)	T	1,2-Dichlorobe...	1.908	1.730	1.693	1.639	1.595	1.695	1.710	6.32
92)	T	1,2-Dibromo-3-...	0.238	0.250	0.272	0.285	0.309	0.337	0.282	13.06
93)	T	1,2,4-Trichlor...	1.513	1.038	1.085	1.077	1.093	1.194	1.167	15.22
94)	T	Hexachlorobuta...	0.695	0.526	0.508	0.501	0.497	0.525	0.542	14.01
95)	T	Naphthalene	3.783	3.138	3.527	3.726	3.816	4.205	3.699	9.53
96)	T	1,2,3-Trichlor...	1.500	1.042	1.078	1.092	1.108	1.198	1.170	14.55

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046518.D
 Acq On : 06 Jun 2025 09:42
 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 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:40:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	104428	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	181356	50.000	ug/l	-0.01
63) Chlorobenzene-d5	10.055	117	164496	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	81515	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	10415	5.606	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	11.220%#		
35) Dibromofluoromethane	5.391	113	7110	5.331	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.660%#		
50) Toluene-d8	8.653	98	24704	5.618	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	11.240%#		
62) 4-Bromofluorobenzene	11.079	95	10224	5.620	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	11.240%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.179	85	7726	5.329	ug/l	99
3) Chloromethane	1.307	50	7698	5.833	ug/l	99
4) Vinyl Chloride	1.386	62	7283	5.536	ug/l	92
5) Bromomethane	1.618	94	6181	7.740	ug/l	89
6) Chloroethane	1.697	64	4764	5.582	ug/l	98
7) Trichlorofluoromethane	1.904	101	11861	5.450	ug/l	97
8) Diethyl Ether	2.148	74	3843	4.997	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	7299	5.323	ug/l	98
10) Methyl Iodide	2.465	142	6815	4.585	ug/l	96
11) Tert butyl alcohol	2.971	59	4565	22.143	ug/l	97
12) 1,1-Dichloroethene	2.331	96	6923	5.584	ug/l	92
13) Acrolein	2.246	56	2067	37.301	ug/l	95
14) Allyl chloride	2.678	41	12513	5.139	ug/l	99
15) Acrylonitrile	3.075	53	19139	24.554	ug/l	100
16) Acetone	2.392	43	18117	28.970	ug/l	92
17) Carbon Disulfide	2.526	76	16895	6.594	ug/l	99
18) Methyl Acetate	2.715	43	9089	4.107	ug/l	98
19) Methyl tert-butyl Ether	3.130	73	21281	4.905	ug/l	100
20) Methylene Chloride	2.800	84	7851	5.267	ug/l	95
21) trans-1,2-Dichloroethene	3.105	96	6901	5.260	ug/l	87
22) Diisopropyl ether	3.770	45	24417	5.086	ug/l #	55
23) Vinyl Acetate	3.739	43	90187	24.333	ug/l	97
24) 1,1-Dichloroethane	3.617	63	14092	5.267	ug/l	98
25) 2-Butanone	4.581	43	23977	23.183	ug/l	98
26) 2,2-Dichloropropane	4.483	77	9718	4.893	ug/l	95
27) cis-1,2-Dichloroethene	4.495	96	8212	5.084	ug/l	97
28) Bromochloromethane	4.910	49	6807	5.334	ug/l #	99
29) Tetrahydrofuran	5.026	42	15713	24.057	ug/l	93
30) Chloroform	5.099	83	14532	5.184	ug/l	94
31) Cyclohexane	5.483	56	12241	5.667	ug/l	89
32) 1,1,1-Trichloroethane	5.391	97	12216	5.094	ug/l	97
36) 1,1-Dichloropropene	5.702	75	10048	5.274	ug/l	96
37) Ethyl Acetate	4.733	43	8766	4.716	ug/l #	89
38) Carbon Tetrachloride	5.690	117	10857	5.088	ug/l	98
39) Methylcyclohexane	7.385	83	12614	5.610	ug/l	97
40) Benzene	6.044	78	28961	5.400	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046518.D
 Acq On : 06 Jun 2025 09:42
 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 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:40:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.940	41	5621	4.868	ug/l #	90
42) 1,2-Dichloroethane	6.092	62	11718	5.252	ug/l	100
43) Isopropyl Acetate	6.349	43	15275	4.712	ug/l #	97
44) Trichloroethene	7.129	130	6978	5.121	ug/l	99
45) 1,2-Dichloropropane	7.434	63	7132	5.152	ug/l	97
46) Dibromomethane	7.586	93	5588	5.366	ug/l	97
47) Bromodichloromethane	7.824	83	10524	4.915	ug/l	97
48) Methyl methacrylate	7.708	41	7663	4.595	ug/l	97
49) 1,4-Dioxane	7.665	88	2221	99.585	ug/l	98
51) 4-Methyl-2-Pentanone	8.574	43	49709	24.133	ug/l	99
52) Toluene	8.720	92	17773	5.394	ug/l	99
53) t-1,3-Dichloropropene	8.982	75	8503	4.429	ug/l	100
54) cis-1,3-Dichloropropene	8.373	75	10282	4.817	ug/l	92
55) 1,1,2-Trichloroethane	9.153	97	6794	5.136	ug/l	97
56) Ethyl methacrylate	9.122	69	9723	4.777	ug/l	97
57) 1,3-Dichloropropane	9.311	76	12033	5.148	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.245	63	27324	24.645	ug/l	97
59) 2-Hexanone	9.433	43	34128	23.102	ug/l	98
60) Dibromochloromethane	9.519	129	7808	5.018	ug/l	96
61) 1,2-Dibromoethane	9.610	107	6661	4.833	ug/l	94
64) Tetrachloroethene	9.275	164	5704	5.186	ug/l	90
65) Chlorobenzene	10.080	112	19529	5.048	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	6488	4.963	ug/l	98
67) Ethyl Benzene	10.195	91	34429	5.098	ug/l	98
68) m/p-Xylenes	10.299	106	24857	10.146	ug/l	99
69) o-Xylene	10.640	106	11976	5.054	ug/l	99
70) Styrene	10.659	104	19826	4.888	ug/l	98
71) Bromoform	10.799	173	4418	4.432	ug/l #	96
73) Isopropylbenzene	10.964	105	32087	5.007	ug/l	99
74) N-amyl acetate	10.848	43	13145	4.658	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.214	83	10551	5.144	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	8330m	4.746	ug/l	
77) Bromobenzene	11.195	156	7367	4.953	ug/l	98
78) n-propylbenzene	11.305	91	37974	4.896	ug/l	99
79) 2-Chlorotoluene	11.366	91	23514	5.028	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	27140	5.083	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	2236	3.736	ug/l #	77
82) 4-Chlorotoluene	11.457	91	27633	4.985	ug/l	97
83) tert-Butylbenzene	11.713	119	27238	5.011	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	26973	4.993	ug/l	97
85) sec-Butylbenzene	11.890	105	35458	5.077	ug/l	97
86) p-Isopropyltoluene	12.006	119	28606	4.913	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	14222	4.924	ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	14704	4.913	ug/l	87
89) n-Butylbenzene	12.329	91	27055	4.731	ug/l	99
90) Hexachloroethane	12.536	117	4884	4.719	ug/l	93
91) 1,2-Dichlorobenzene	12.335	146	14100	5.058	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	2035	4.431	ug/l	95
93) 1,2,4-Trichlorobenzene	13.585	180	8458	4.447	ug/l	99
94) Hexachlorobutadiene	13.725	225	4285	4.848	ug/l	97
95) Naphthalene	13.774	128	25583	4.242	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	8491	4.453	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046518.D
Acq On : 06 Jun 2025 09:42
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 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:40:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:38:39 2025
Response via : Initial Calibration

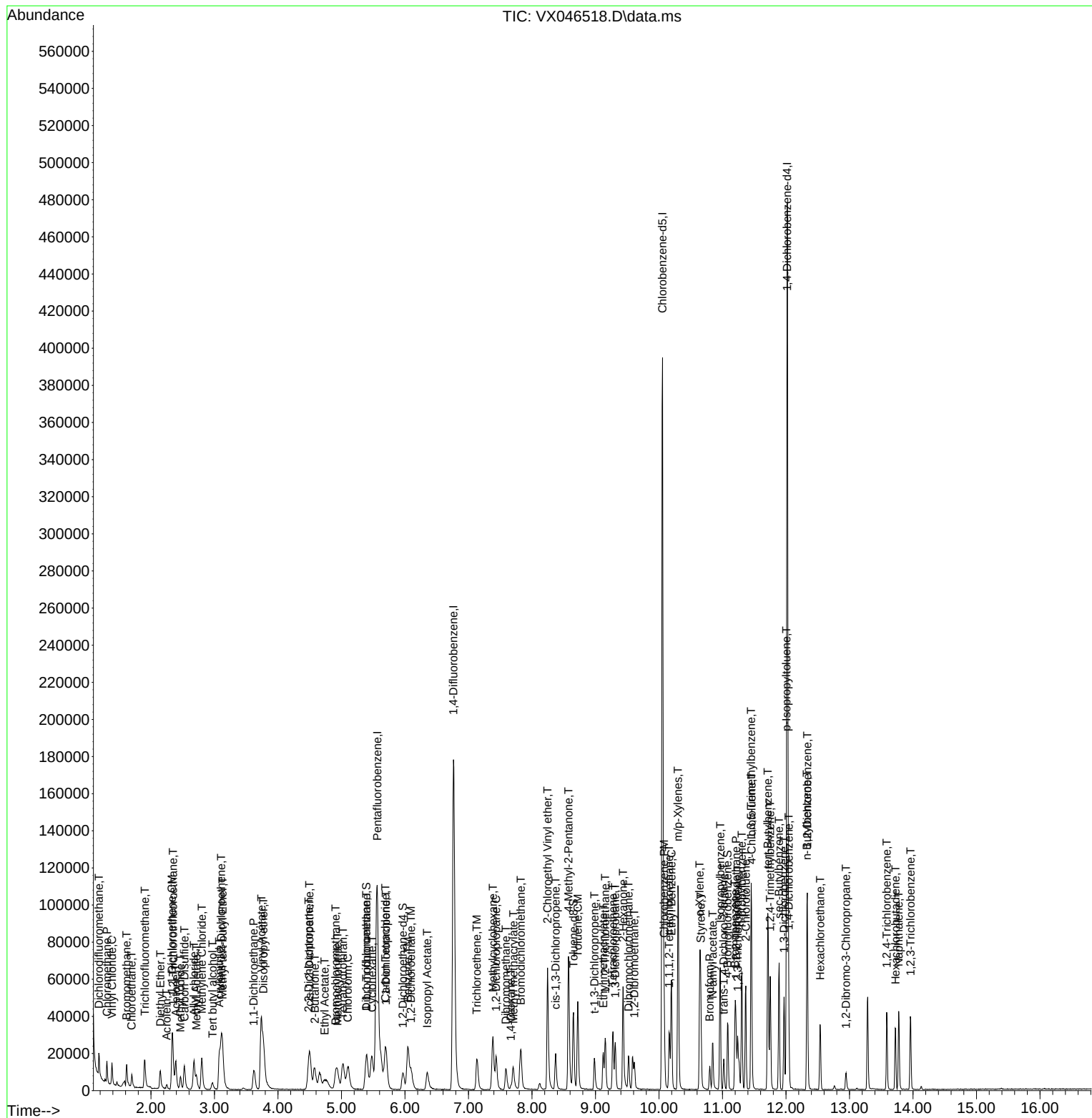
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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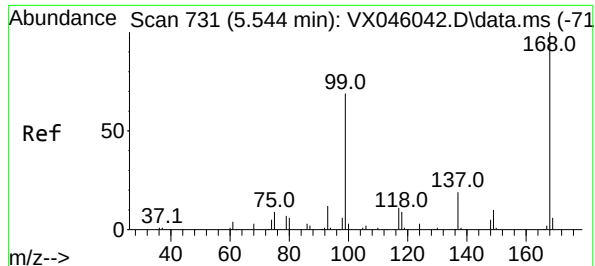
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.562 min Scan# 71

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion:168 Resp: 104428

Ion Ratio Lower Upper

168 100

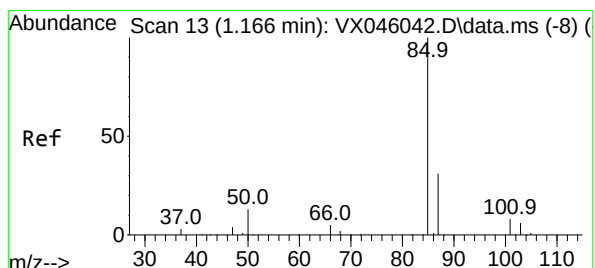
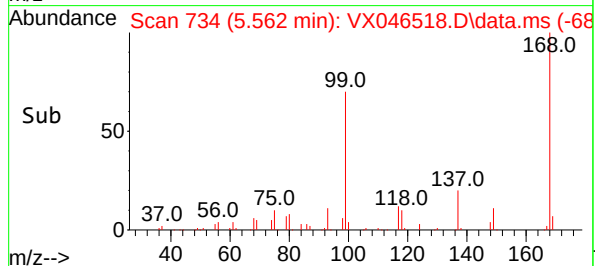
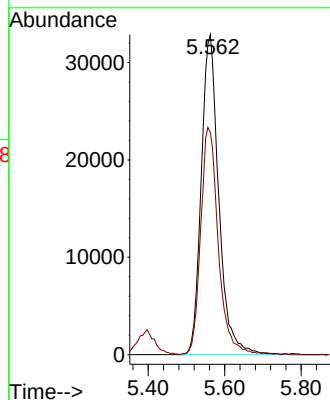
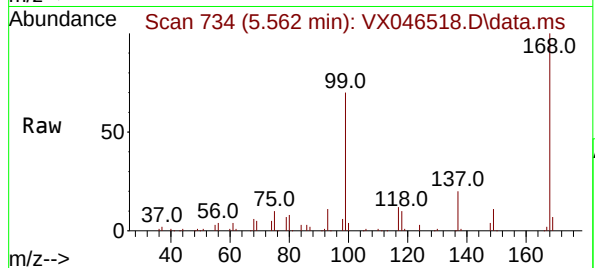
99 69.6 54.9 82.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#2

Dichlorodifluoromethane

Concen: 5.329 ug/l

RT: 1.179 min Scan# 15

Delta R.T. -0.006 min

Lab File: VX046518.D

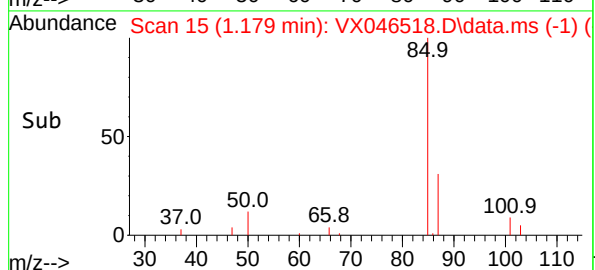
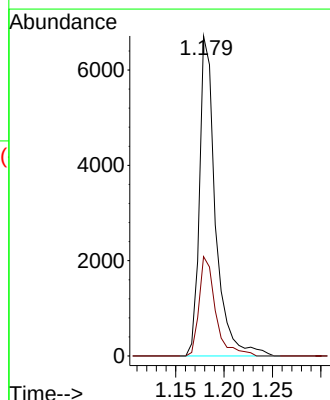
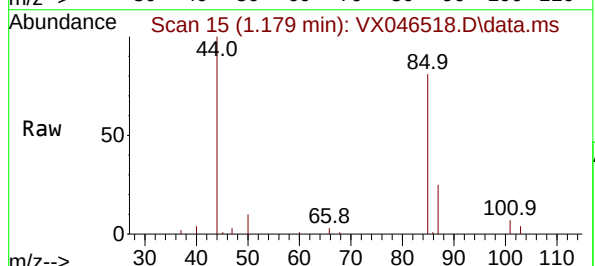
Acq: 06 Jun 2025 09:42

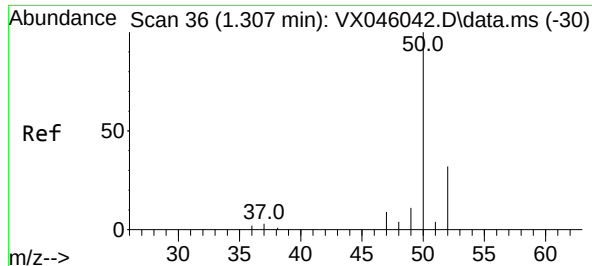
Tgt Ion: 85 Resp: 7726

Ion Ratio Lower Upper

85 100

87 31.1 15.7 47.1





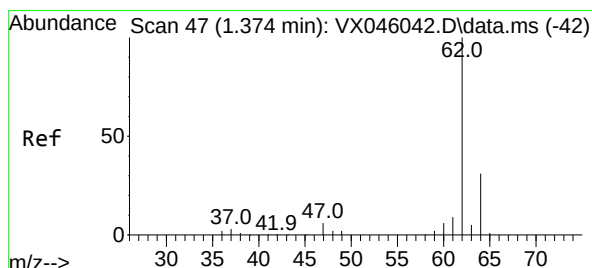
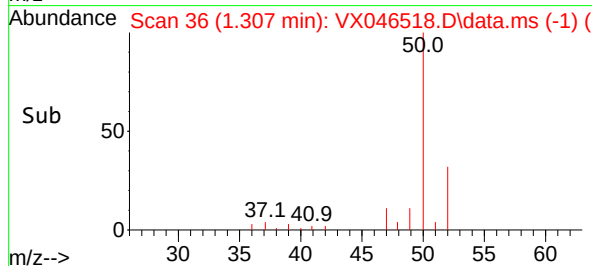
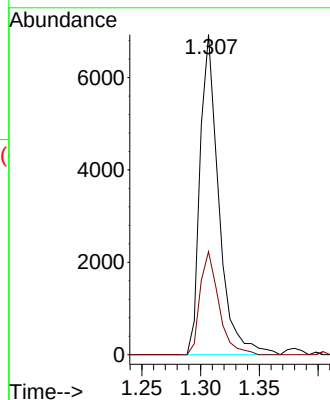
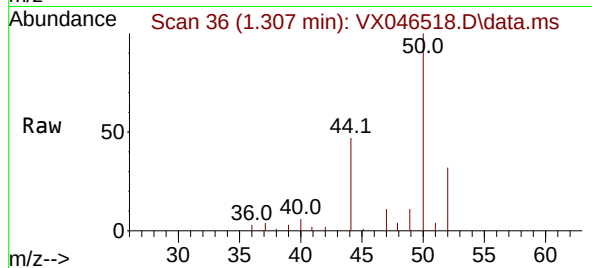
#3
Chloromethane
Concen: 5.833 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 7698
Ion Ratio Lower Upper
50 100
52 32.2 25.4 38.2

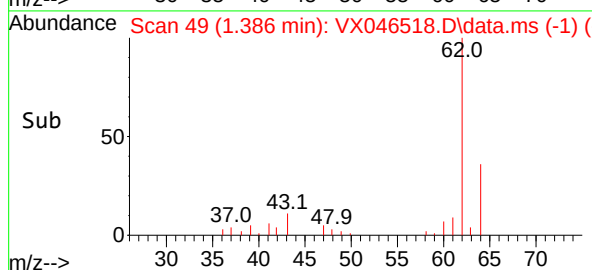
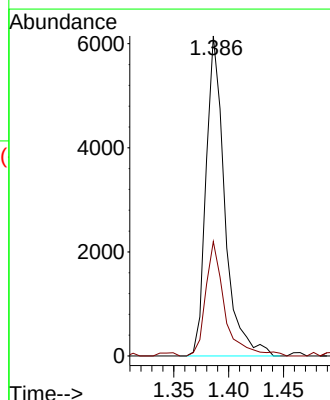
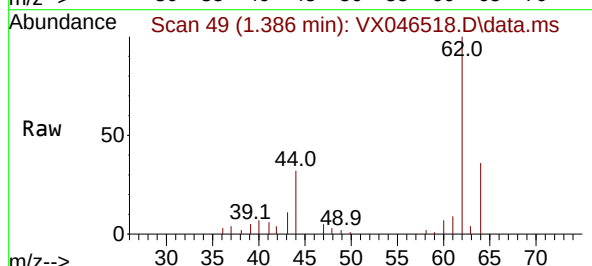
Manual Integrations
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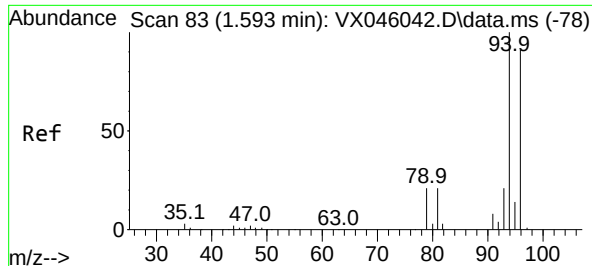
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 5.536 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion: 62 Resp: 7283
Ion Ratio Lower Upper
62 100
64 35.8 25.2 37.8





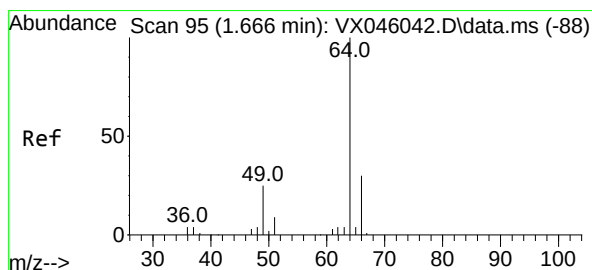
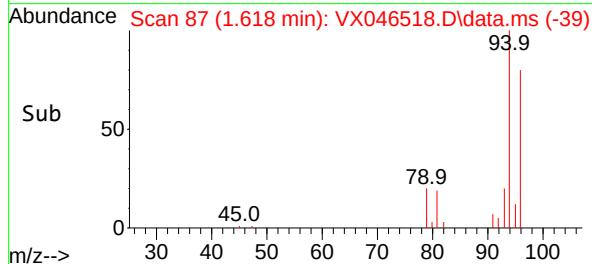
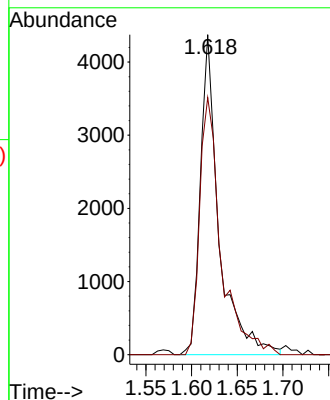
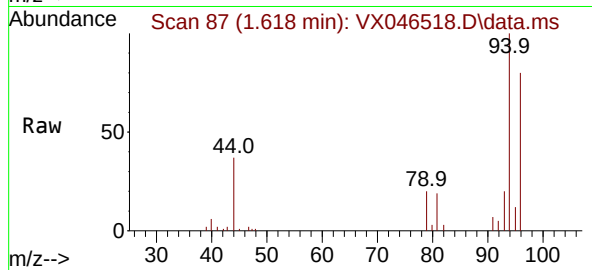
#5
Bromomethane
Concen: 7.740 ug/l
RT: 1.618 min Scan# 81
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 618
Ion Ratio Lower Upper
94 100
96 80.3 72.8 109.2

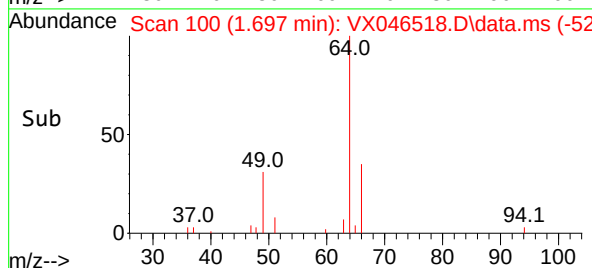
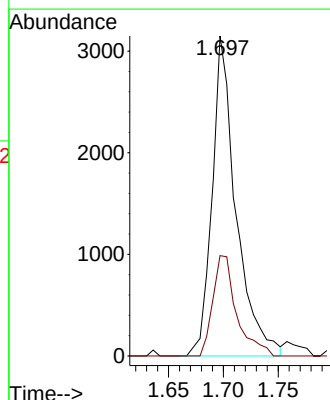
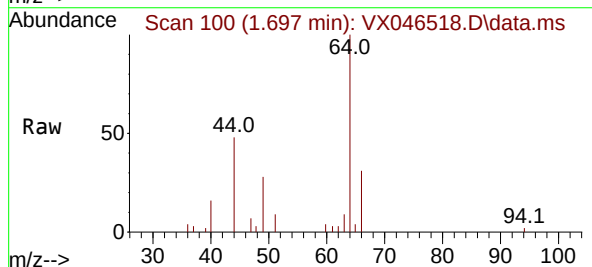
Manual Integrations
APPROVED

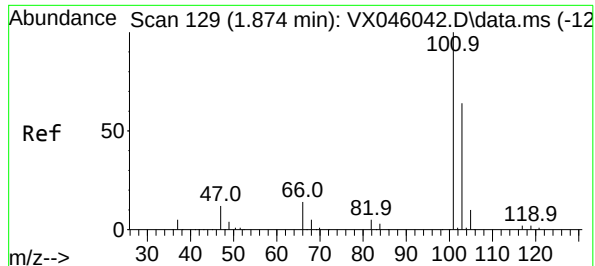
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#6
Chloroethane
Concen: 5.582 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

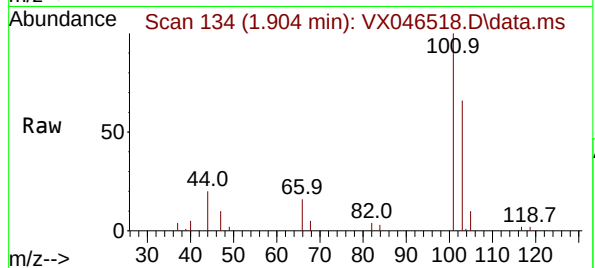
Tgt Ion: 64 Resp: 4764
Ion Ratio Lower Upper
64 100
66 31.3 24.3 36.5





#7
Trichlorofluoromethane
Concen: 5.450 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

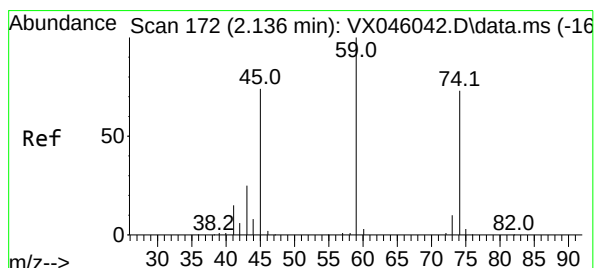
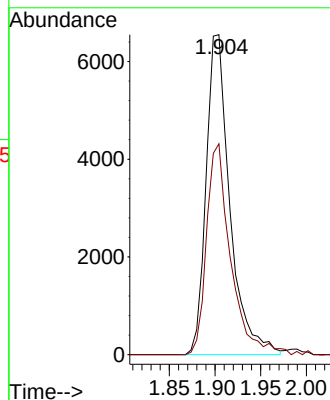
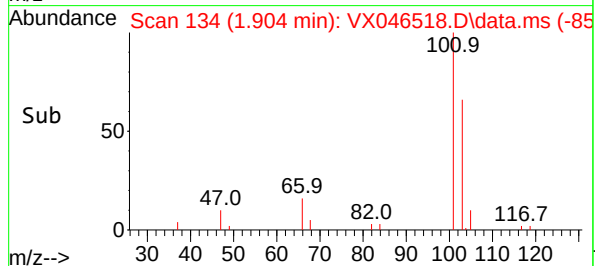
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



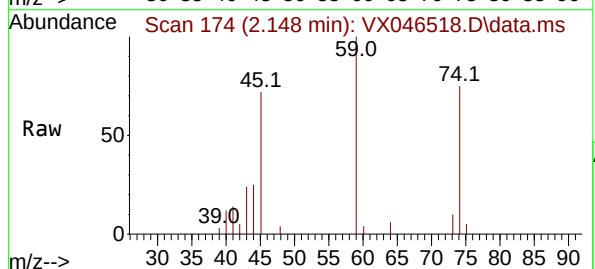
Tgt Ion: 101 Resp: 1186
Ion Ratio Lower Upper
101 100
103 65.9 51.0 76.4

Manual Integrations
APPROVED

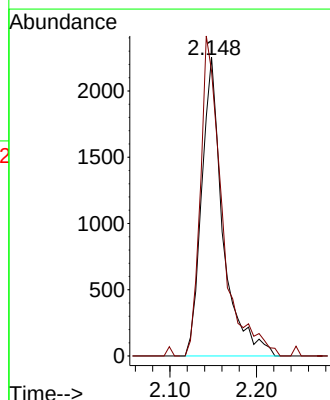
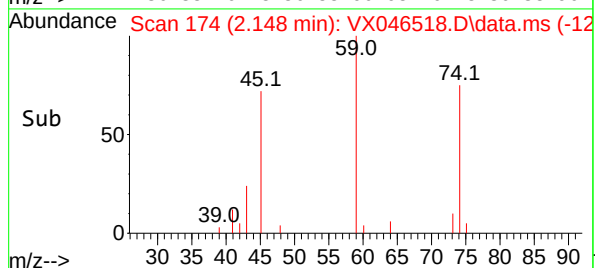
Reviewed By : John Carlone 06/06/2025
Supervised By : Mahesh Dadoda 06/09/2025

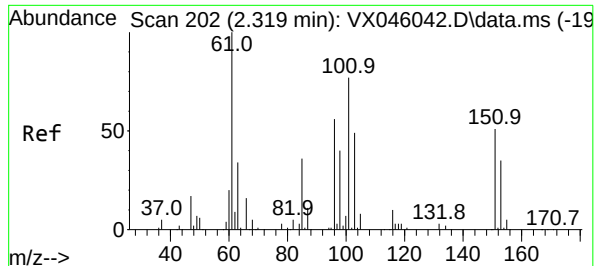


#8
Diethyl Ether
Concen: 4.997 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42



Tgt Ion: 74 Resp: 3843
Ion Ratio Lower Upper
74 100
45 110.0 54.9 164.8





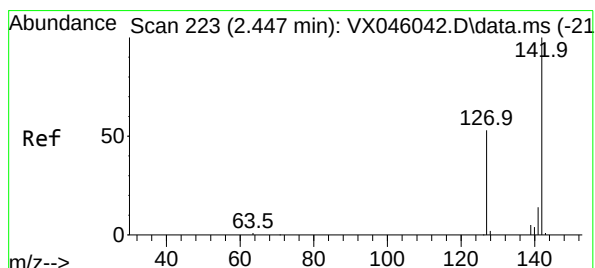
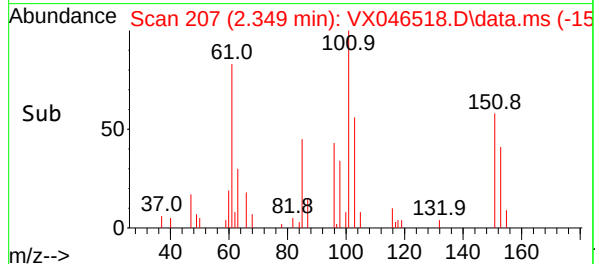
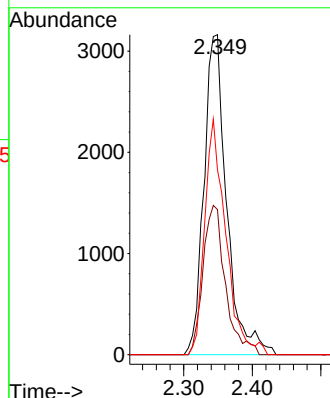
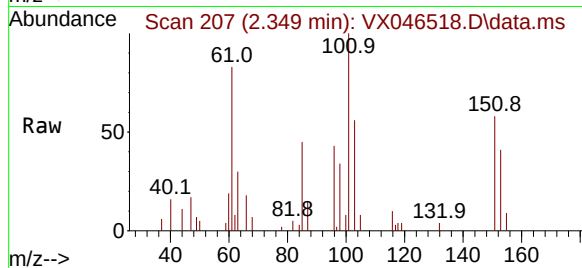
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.323 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 729
Ion Ratio Lower Upper
101 100
85 46.0 38.6 58.0
151 68.4 55.2 82.8

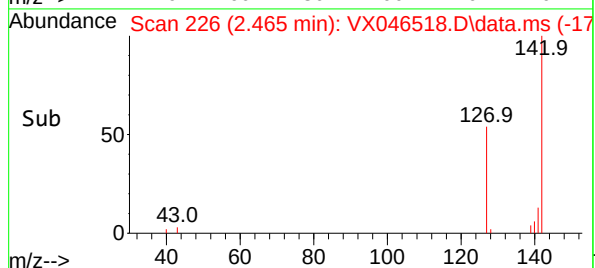
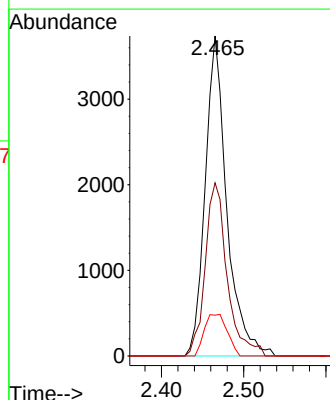
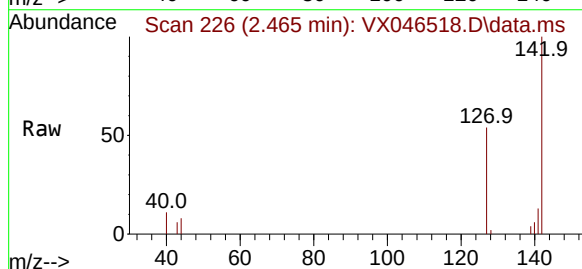
Manual Integrations
APPROVED

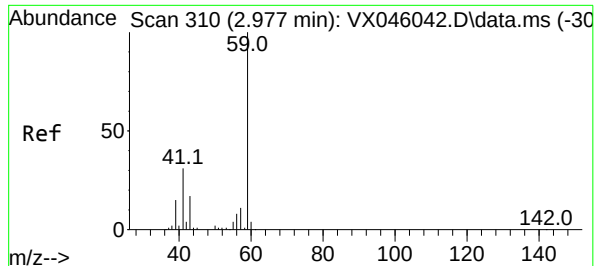
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#10
Methyl Iodide
Concen: 4.585 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion:142 Resp: 6815
Ion Ratio Lower Upper
142 100
127 55.0 41.7 62.5
141 13.8 11.5 17.3





#11

Tert butyl alcohol

Concen: 22.143 ug/l

RT: 2.971 min Scan# 309

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 456

Ion Ratio Lower Upper

59 100

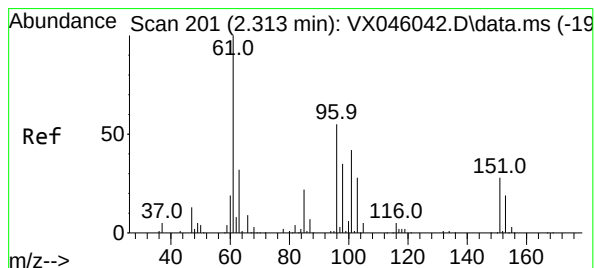
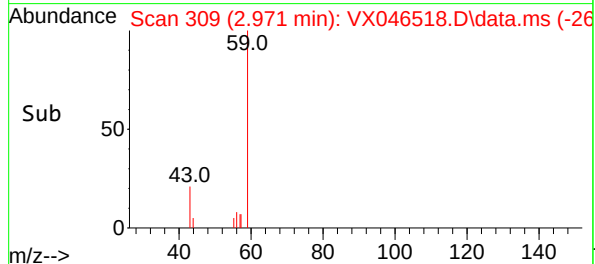
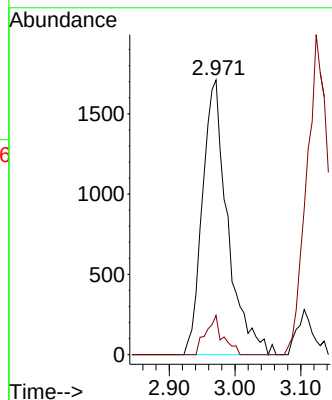
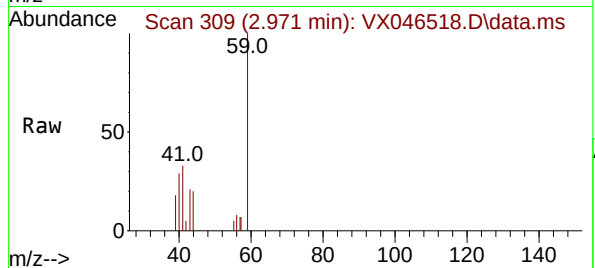
57 9.6 8.6 12.8

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#12

1,1-Dichloroethene

Concen: 5.584 ug/l

RT: 2.331 min Scan# 204

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

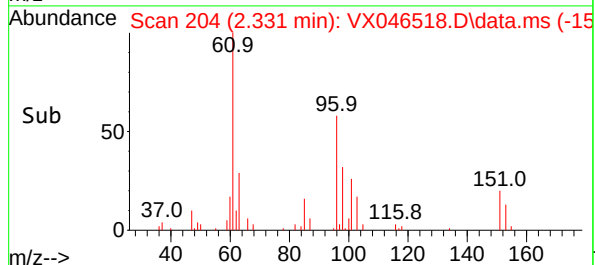
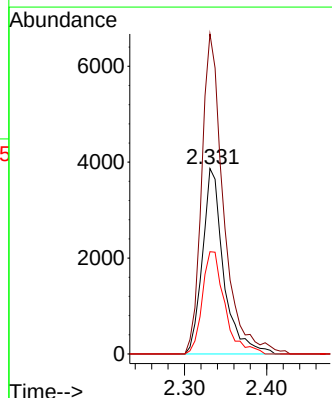
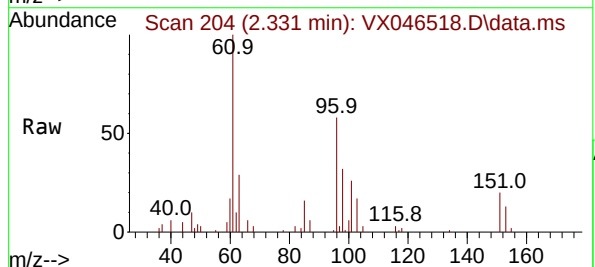
Tgt Ion: 96 Resp: 6923

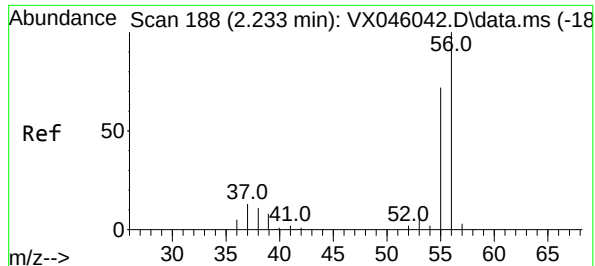
Ion Ratio Lower Upper

96 100

61 172.5 146.2 219.2

98 55.2 51.0 76.6





#13

Acrolein

Concen: 37.301 ug/l

RT: 2.246 min Scan# 188

Delta R.T. -0.005 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 206

Ion Ratio Lower Upper

56

100

55

66.2

56.2

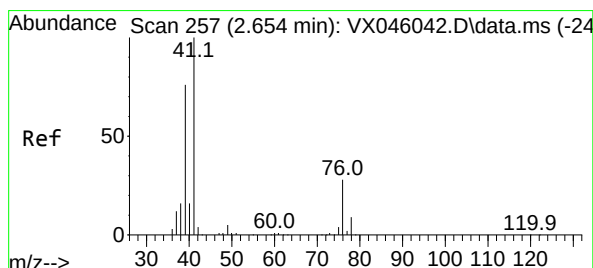
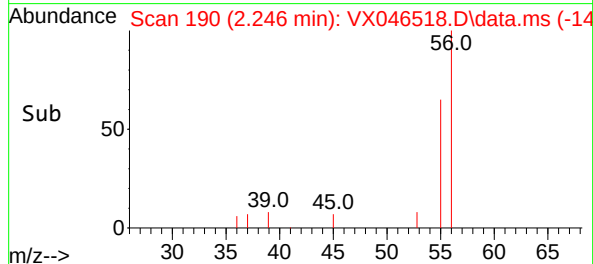
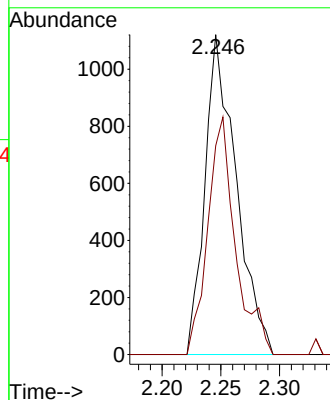
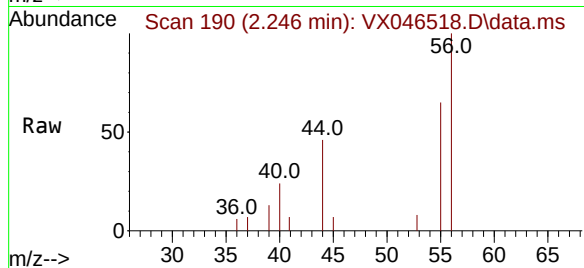
84.4

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 5.139 ug/l

RT: 2.678 min Scan# 261

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Tgt Ion: 41 Resp: 12513

Ion Ratio Lower Upper

41

100

39

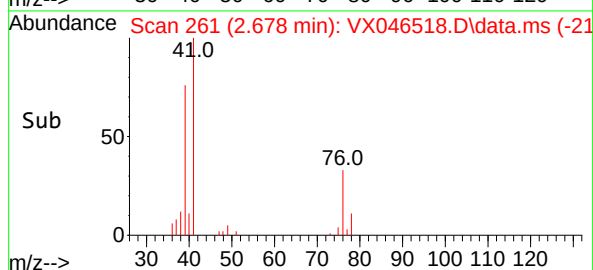
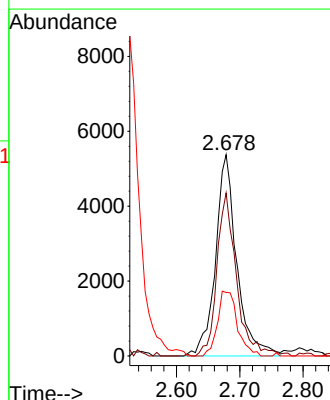
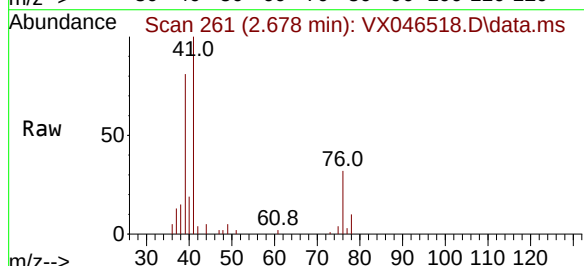
74.9

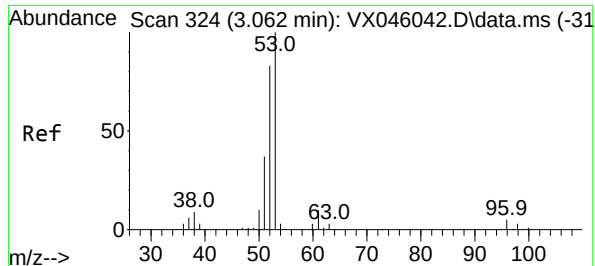
76

30.0

24.9

37.3





#15

Acrylonitrile

Concen: 24.554 ug/l

RT: 3.075 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

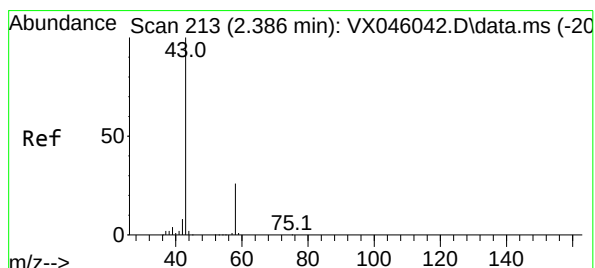
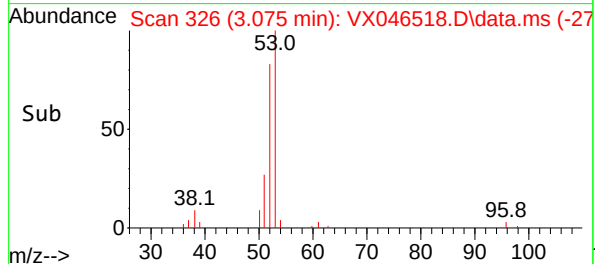
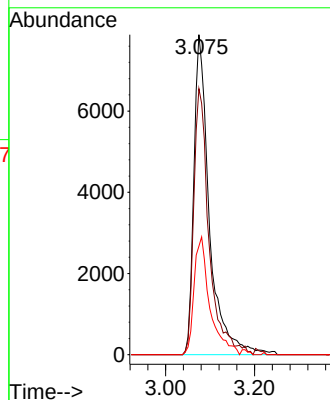
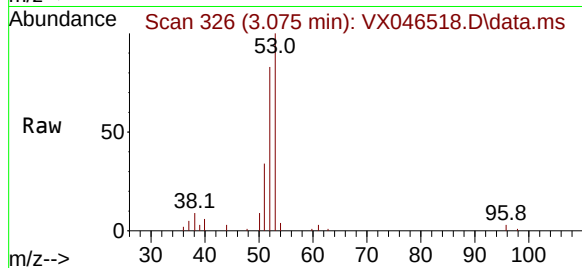
VSTDICC005

Tgt Ion:	53	Resp:	19139
Ion	Ratio	Lower	Upper
53	100		
52	81.8	65.3	97.9
51	37.2	29.8	44.8

Manual Integrations
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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#16

Acetone

Concen: 28.970 ug/l

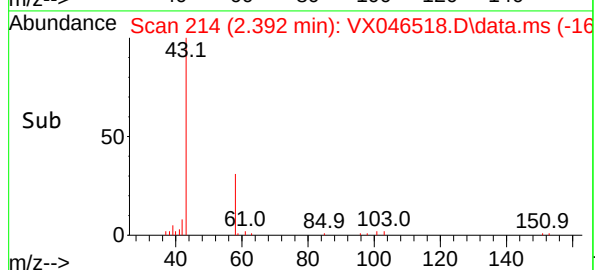
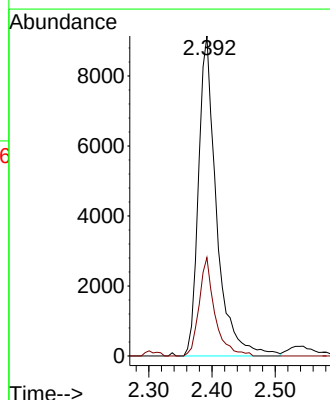
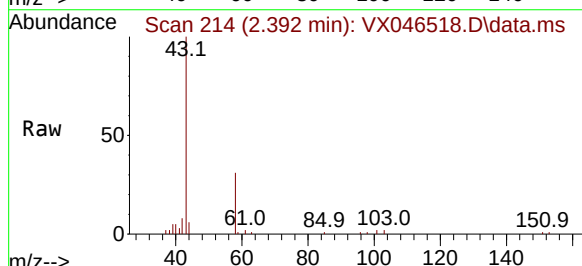
RT: 2.392 min Scan# 214

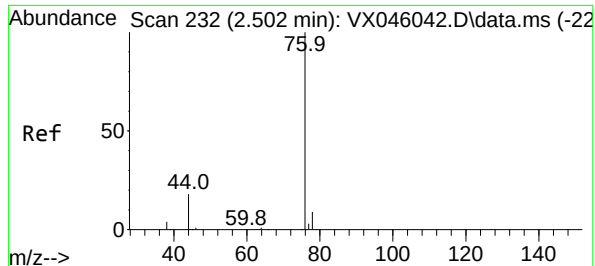
Delta R.T. -0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Tgt Ion:	43	Resp:	18117
Ion	Ratio	Lower	Upper
43	100		
58	30.8	21.2	31.8





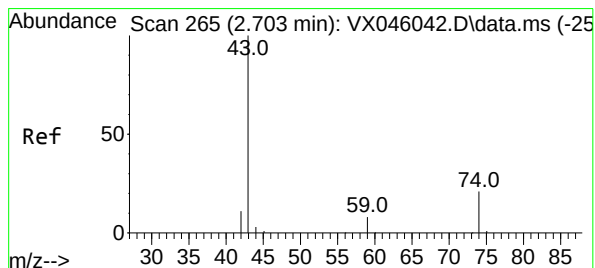
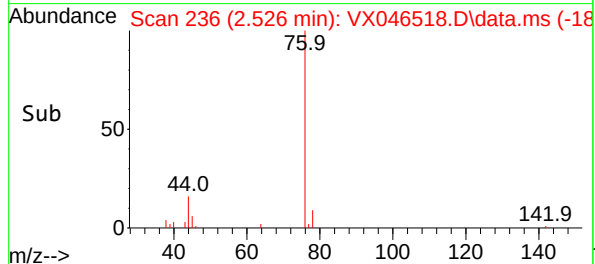
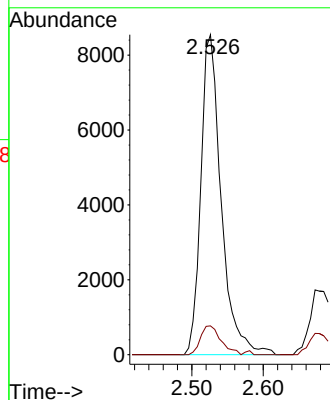
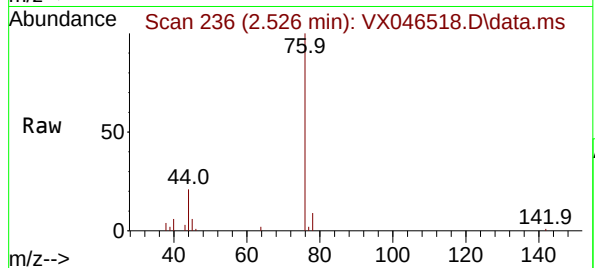
#17
Carbon Disulfide
Concen: 6.594 ug/l
RT: 2.526 min Scan# 211
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 1689
Ion Ratio Lower Upper
76 100
78 9.0 7.0 10.4

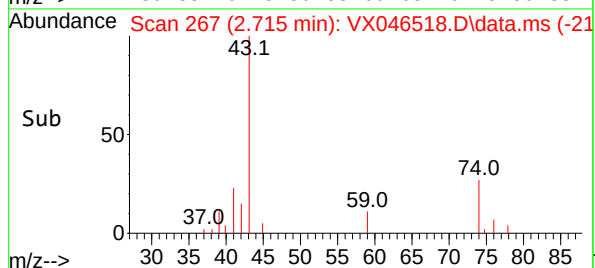
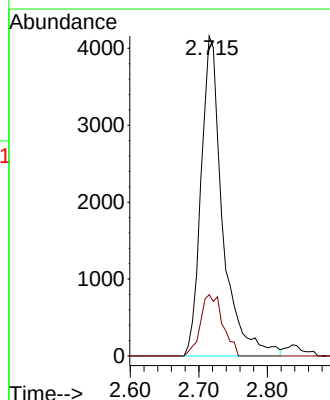
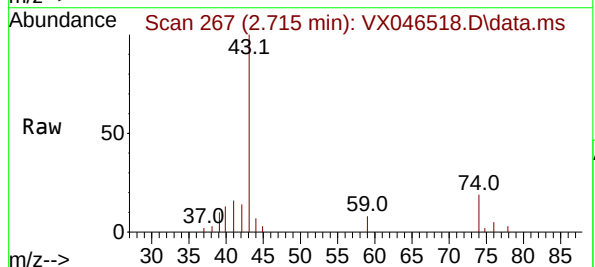
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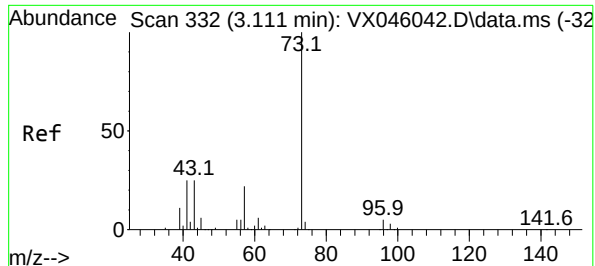
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#18
Methyl Acetate
Concen: 4.107 ug/l
RT: 2.715 min Scan# 267
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion: 43 Resp: 9089
Ion Ratio Lower Upper
43 100
74 19.9 16.7 25.1





#19

Methyl tert-butyl Ether

Concen: 4.905 ug/l

RT: 3.130 min Scan# 31

Delta R.T. -0.005 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 2128

Ion Ratio Lower Upper

73 100

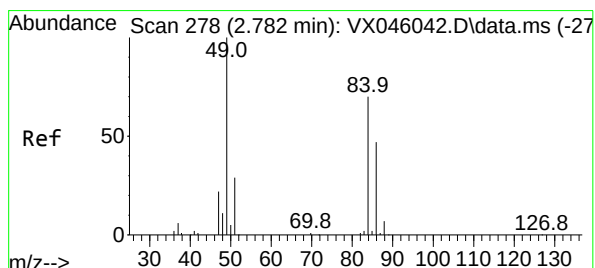
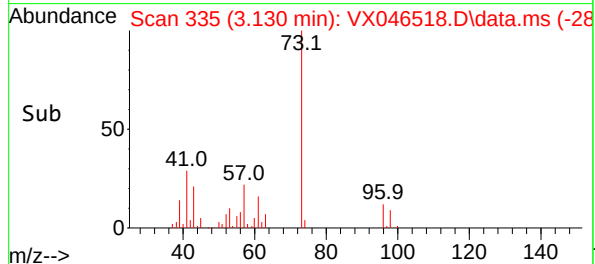
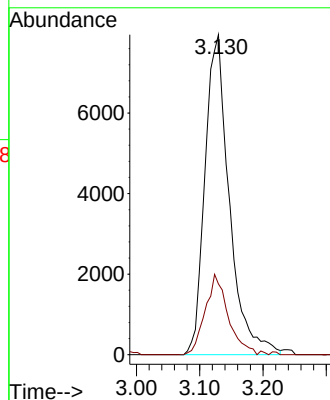
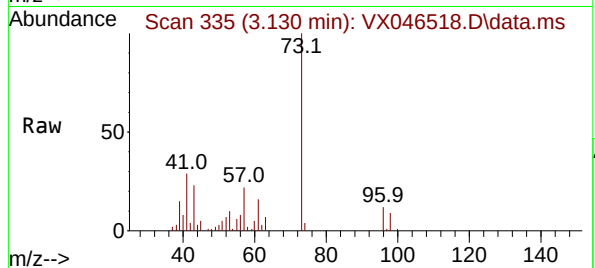
57 22.1 17.7 26.5

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#20

Methylene Chloride

Concen: 5.267 ug/l

RT: 2.800 min Scan# 281

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Tgt Ion: 84 Resp: 7851

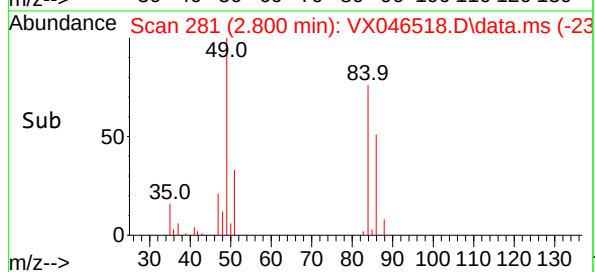
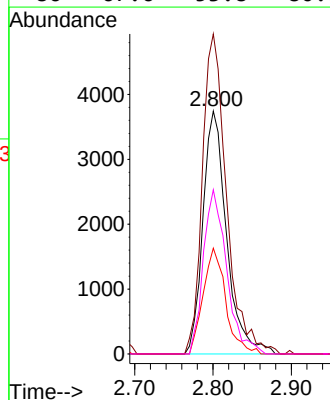
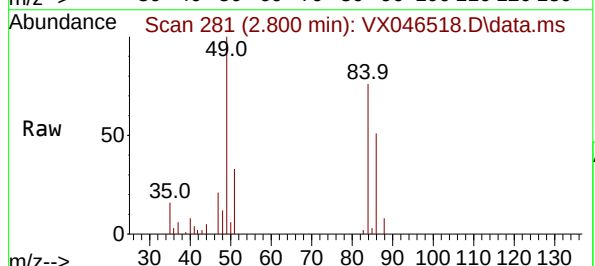
Ion Ratio Lower Upper

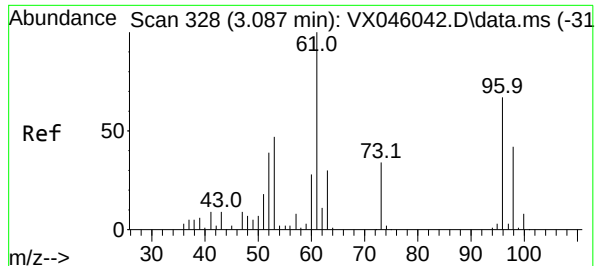
84 100

49 131.8 113.9 170.9

51 43.5 33.5 50.3

86 67.6 53.8 80.8





#21

trans-1,2-Dichloroethene

Concen: 5.260 ug/l

RT: 3.105 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 690

Ion Ratio Lower Upper

96 100

61 131.6 119.5 179.3

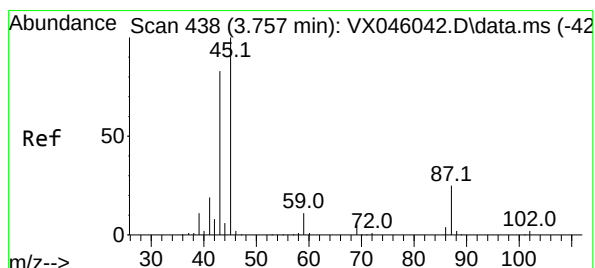
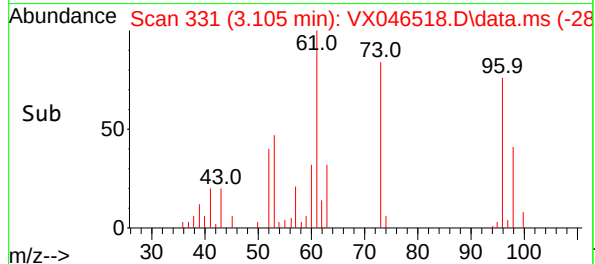
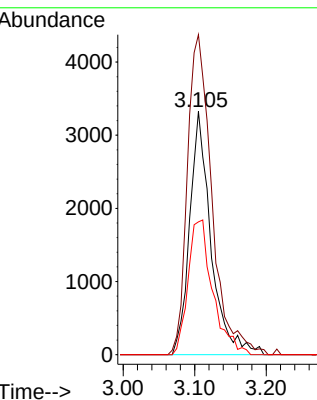
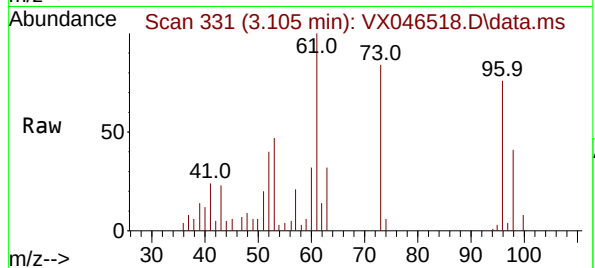
98 54.6 50.0 75.0

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#22

Diisopropyl ether

Concen: 5.086 ug/l

RT: 3.770 min Scan# 440

Delta R.T. -0.012 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Tgt Ion: 45 Resp: 24417

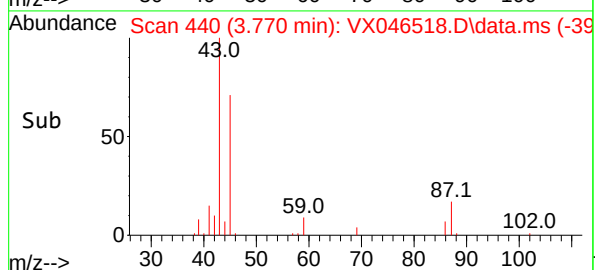
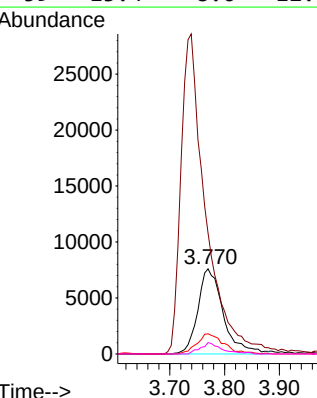
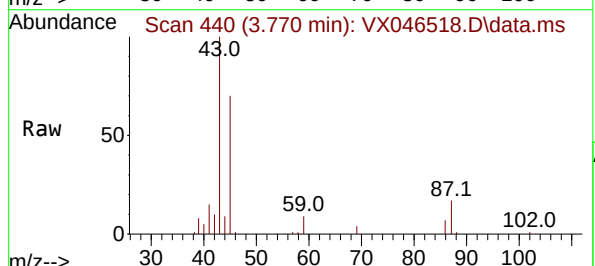
Ion Ratio Lower Upper

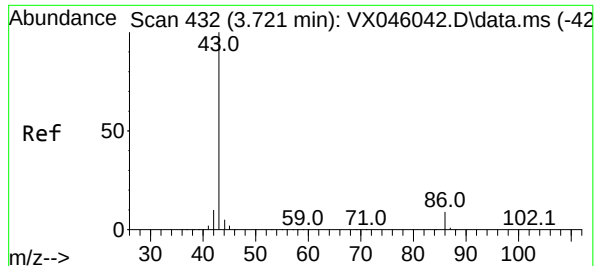
45 100

43 139.2 66.6 100.0#

87 23.6 19.8 29.6

59 13.4 8.6 12.8#





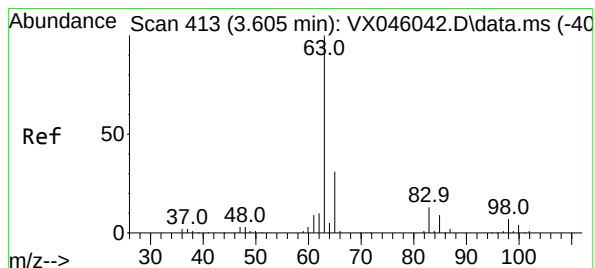
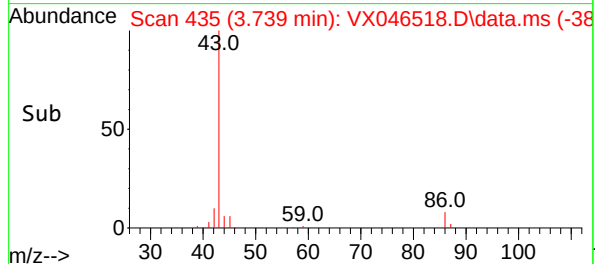
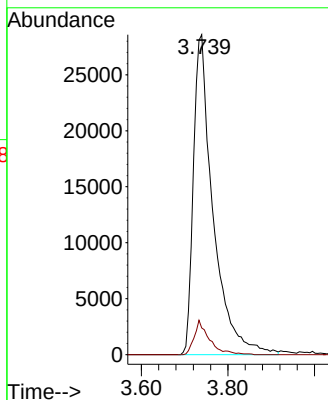
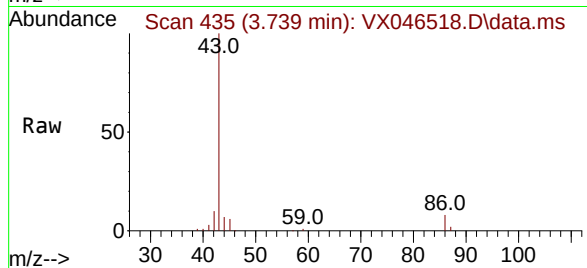
#23
Vinyl Acetate
Concen: 24.333 ug/l
RT: 3.739 min Scan# 415
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 9018
Ion Ratio Lower Upper
43 100
86 8.4 7.5 11.3

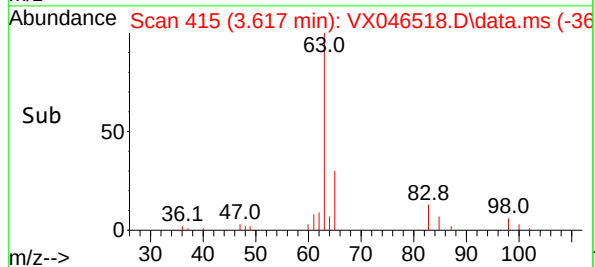
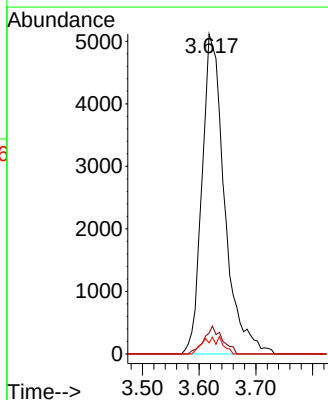
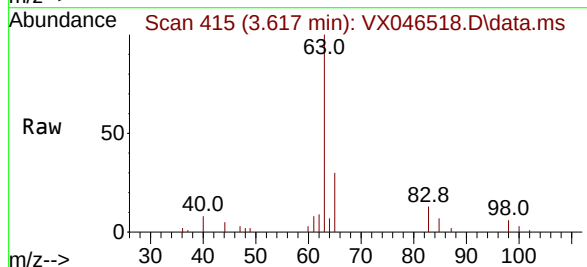
Manual Integrations
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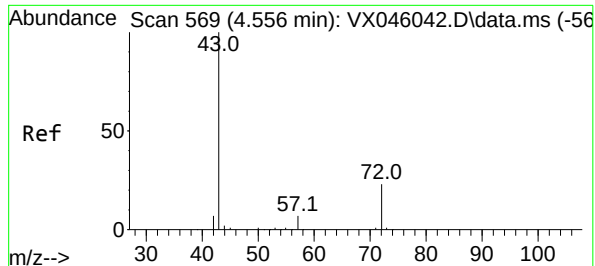
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#24
1,1-Dichloroethane
Concen: 5.267 ug/l
RT: 3.617 min Scan# 415
Delta R.T. -0.012 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion: 63 Resp: 14092
Ion Ratio Lower Upper
63 100
98 6.5 3.6 10.8
100 3.4 2.1 6.3





#25

2-Butanone

Concen: 23.183 ug/l

RT: 4.581 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 2397

Ion Ratio Lower Upper

43 100

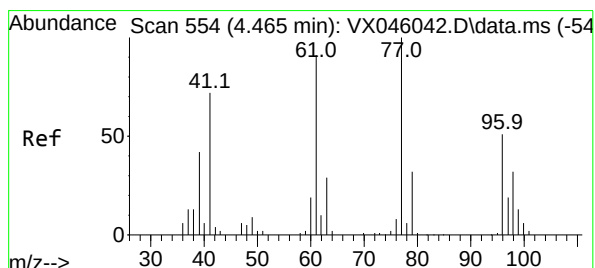
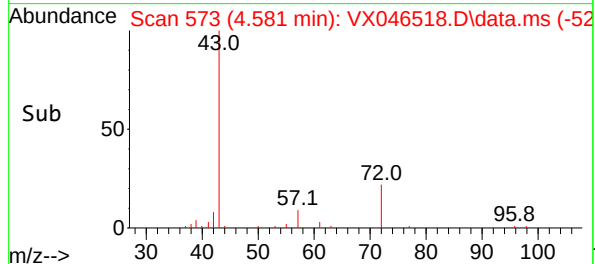
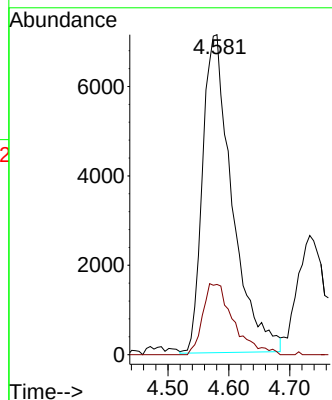
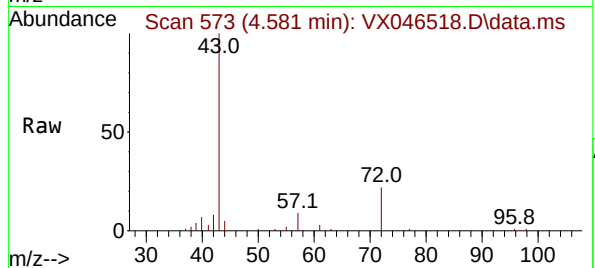
72 22.1 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 4.893 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.012 min

Lab File: VX046518.D

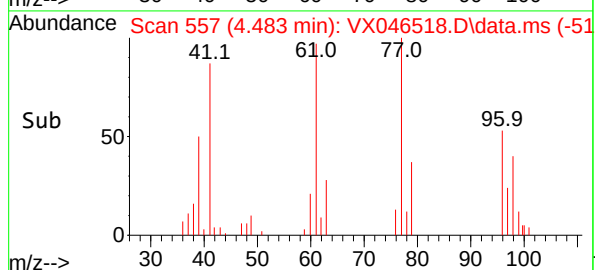
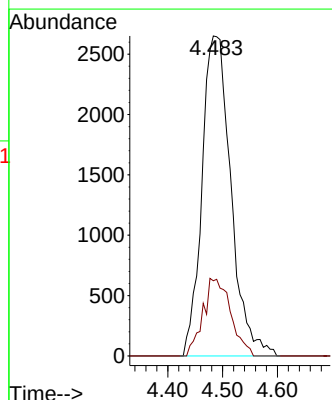
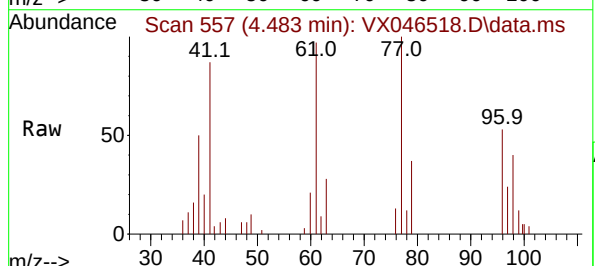
Acq: 06 Jun 2025 09:42

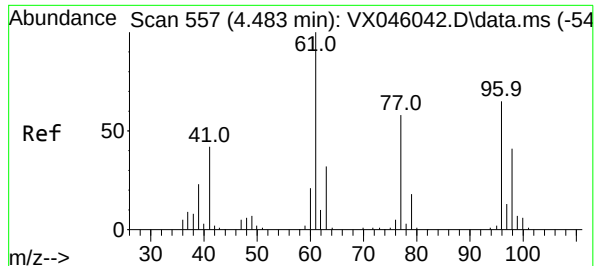
Tgt Ion: 77 Resp: 9718

Ion Ratio Lower Upper

77 100

97 23.2 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 5.084 ug/l

RT: 4.495 min Scan# 51

Delta R.T. -0.012 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 96 Resp: 821

Ion Ratio Lower Upper

96 100

61 157.9 0.0 322.8

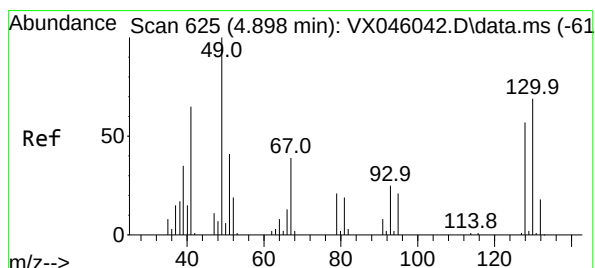
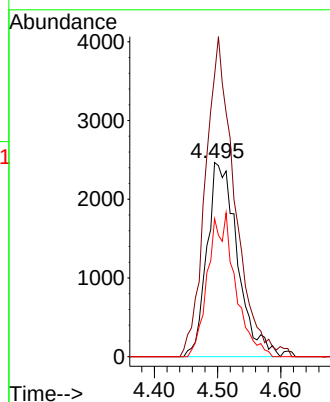
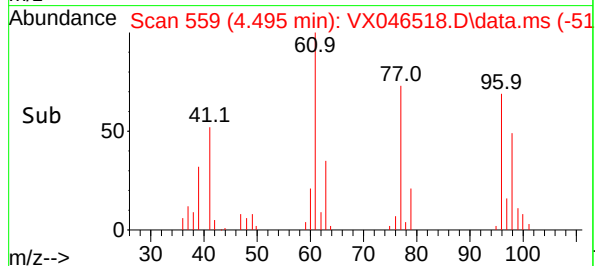
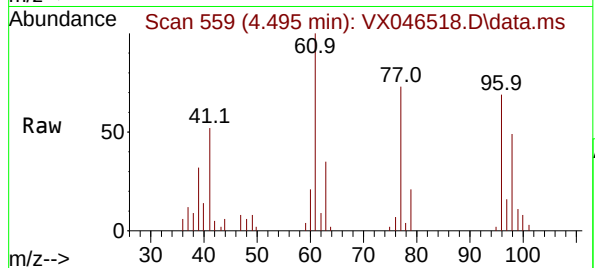
98 66.6 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 5.334 ug/l

RT: 4.910 min Scan# 627

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

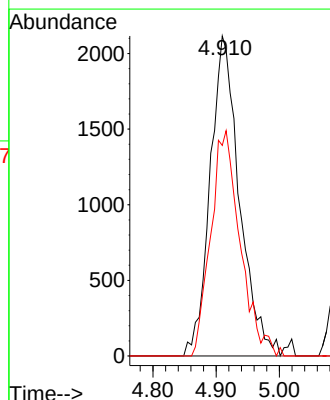
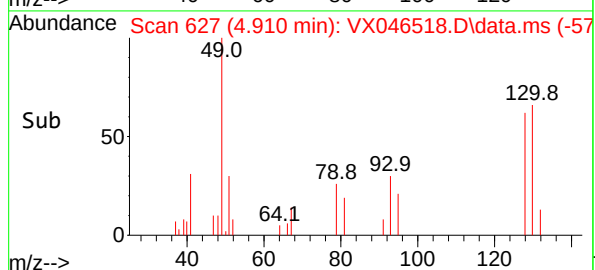
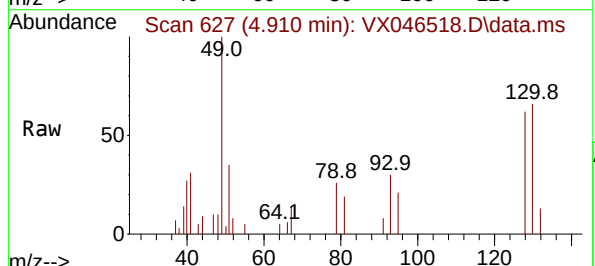
Tgt Ion: 49 Resp: 6807

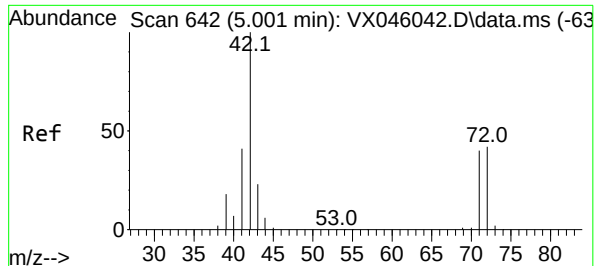
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

130 70.8 56.2 84.2





#29

Tetrahydrofuran

Concen: 24.057 ug/l

RT: 5.026 min Scan# 64

Delta R.T. 0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

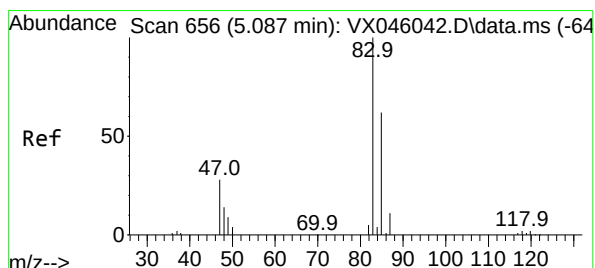
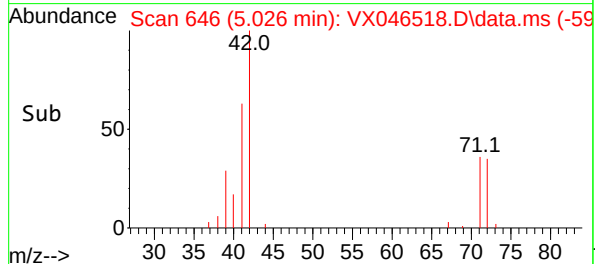
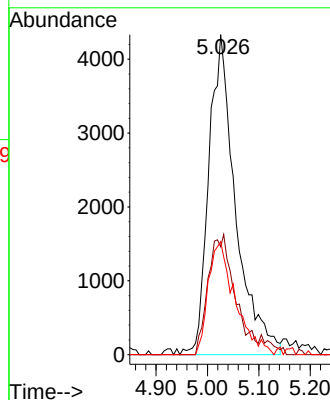
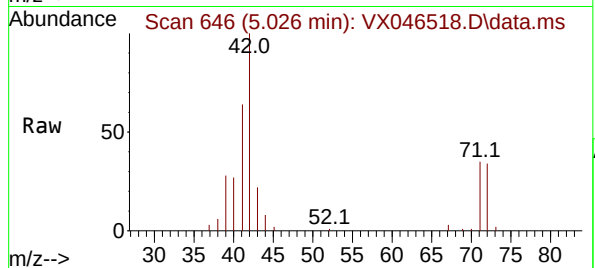
VSTDIC005

Tgt Ion:	42	Resp:	1571
Ion	Ratio	Lower	Upper
42	100		
72	37.4	33.7	50.5
71	35.4	31.4	47.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 5.184 ug/l

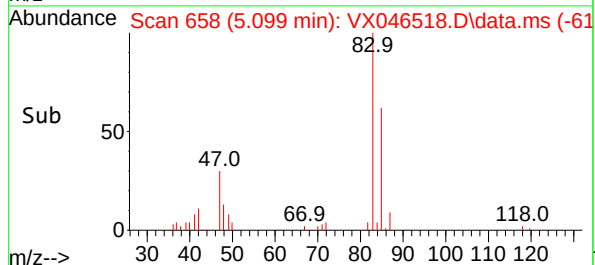
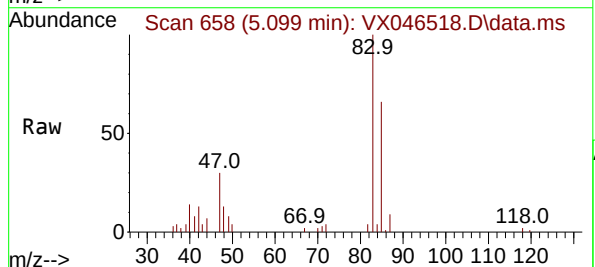
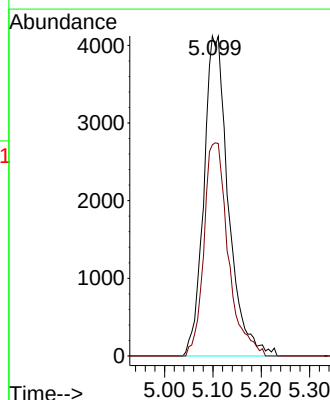
RT: 5.099 min Scan# 658

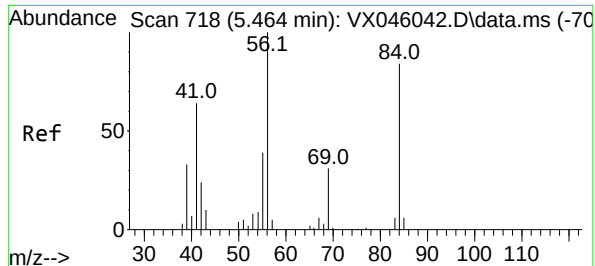
Delta R.T. -0.012 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Tgt Ion:	83	Resp:	14532
Ion	Ratio	Lower	Upper
83	100		
85	66.0	49.3	73.9





#31

Cyclohexane

Concen: 5.667 ug/l

RT: 5.483 min Scan# 718

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 1224

Ion Ratio Lower Upper

56 100

69 30.6 24.4 36.6

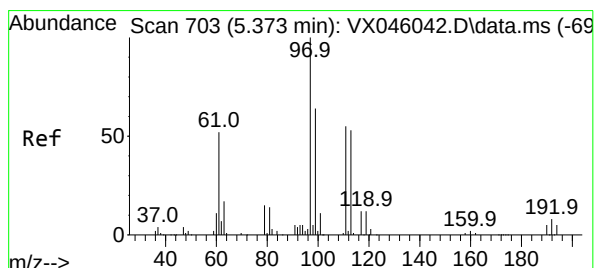
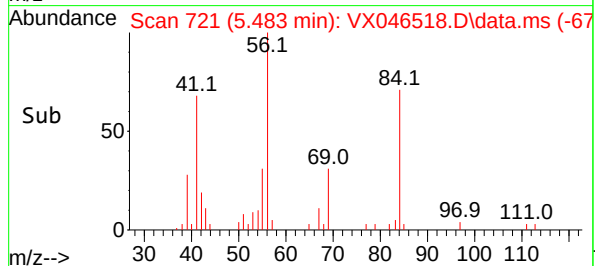
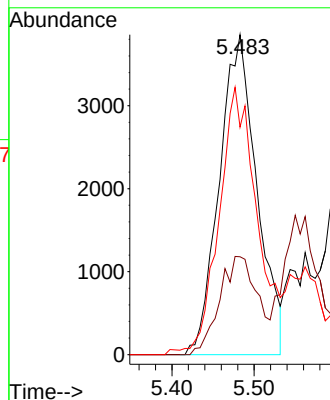
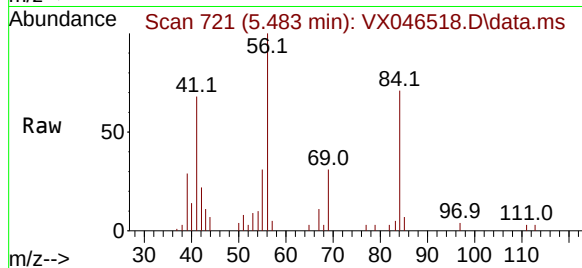
84 69.7 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#32

1,1,1-Trichloroethane

Concen: 5.094 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

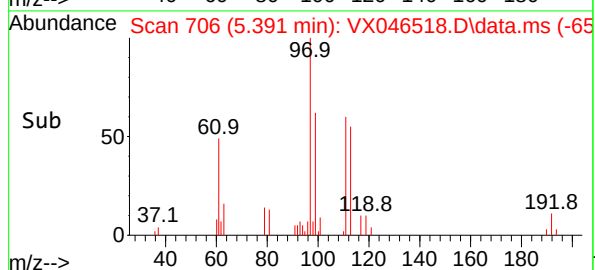
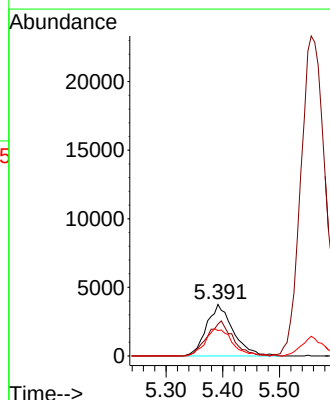
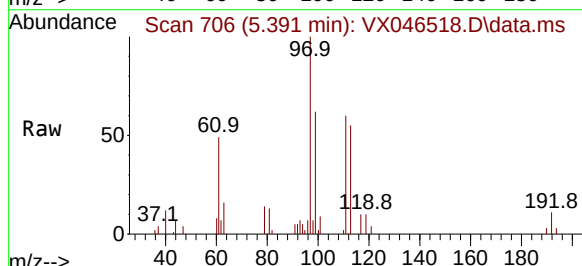
Tgt Ion: 97 Resp: 12216

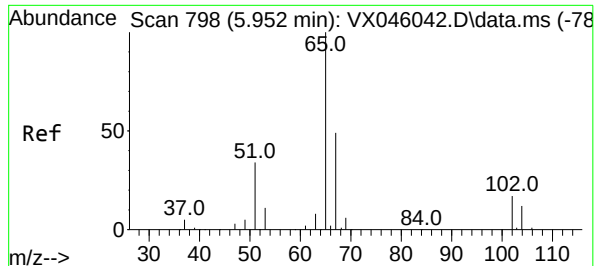
Ion Ratio Lower Upper

97 100

99 65.5 51.8 77.6

61 53.6 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 5.606 ug/l

RT: 5.964 min Scan# 800

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 65 Resp: 1041

Ion Ratio Lower Upper

65 100

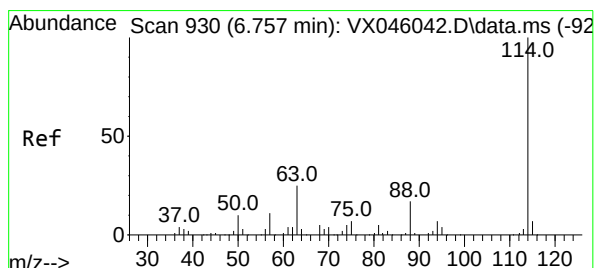
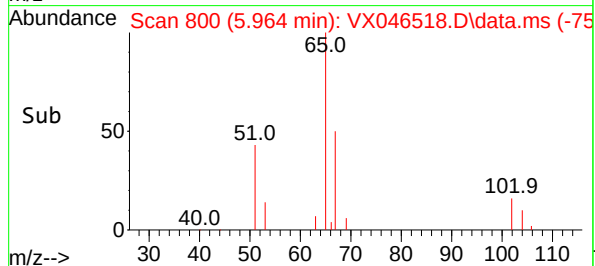
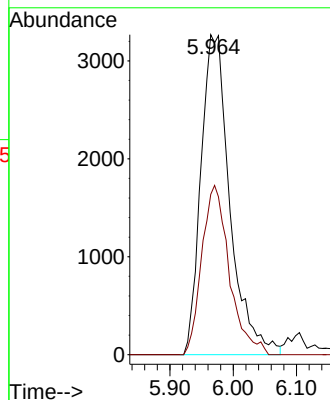
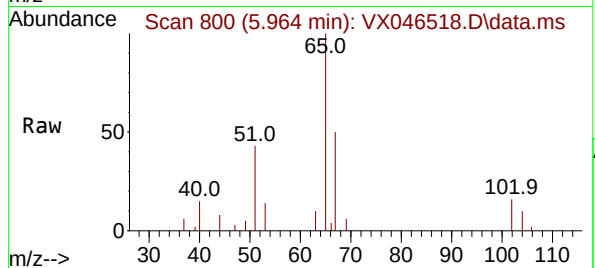
67 50.4 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.012 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

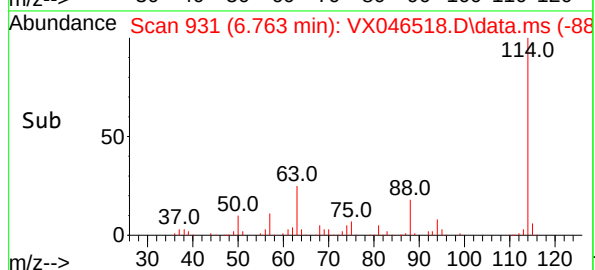
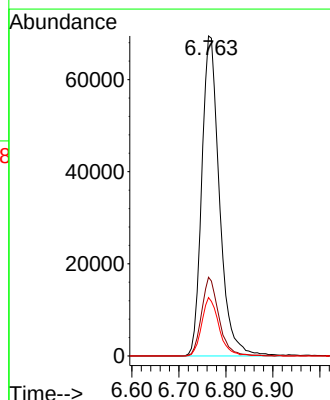
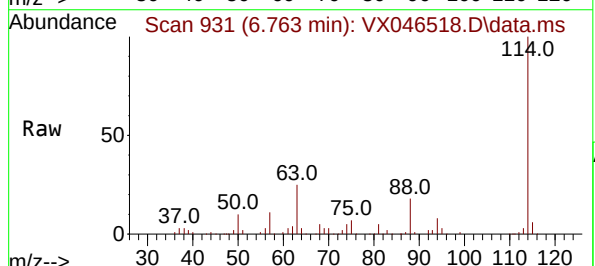
Tgt Ion:114 Resp: 181356

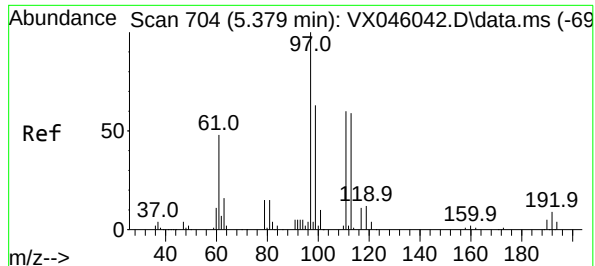
Ion Ratio Lower Upper

114 100

63 24.6 0.0 49.2

88 18.2 0.0 33.6





#35

Dibromofluoromethane

Concen: 5.331 ug/l

RT: 5.391 min Scan# 704

Delta R.T. -0.012 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion:113 Resp: 7110

Ion Ratio Lower Upper

113 100

111 105.5 83.1 124.7

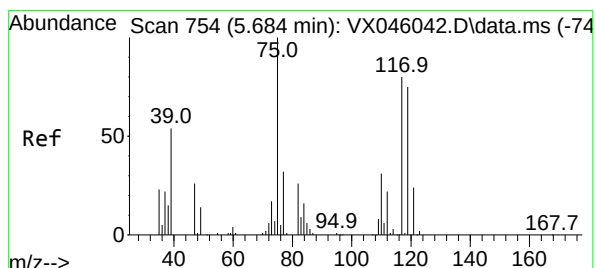
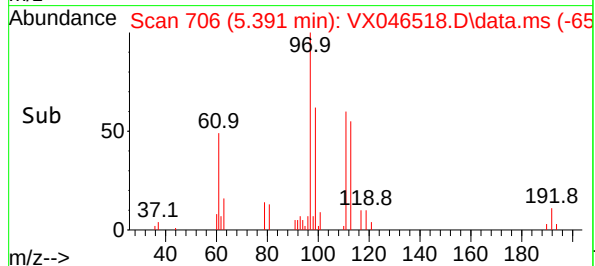
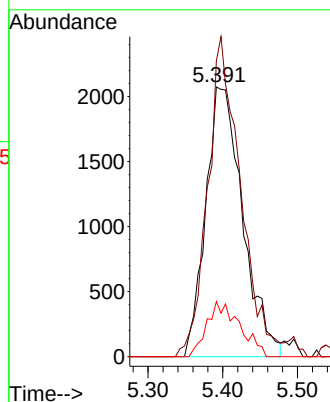
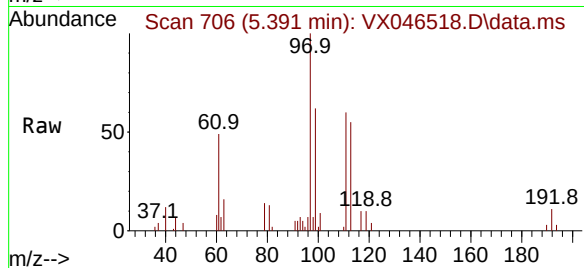
192 18.1 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#36

1,1-Dichloropropene

Concen: 5.274 ug/l

RT: 5.702 min Scan# 757

Delta R.T. -0.012 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

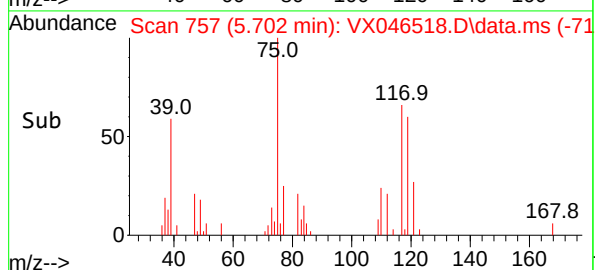
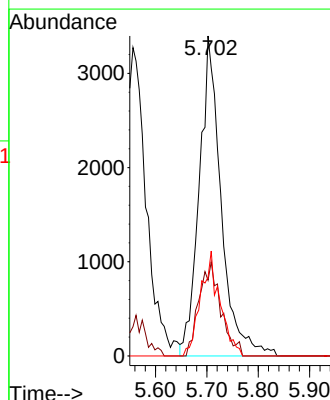
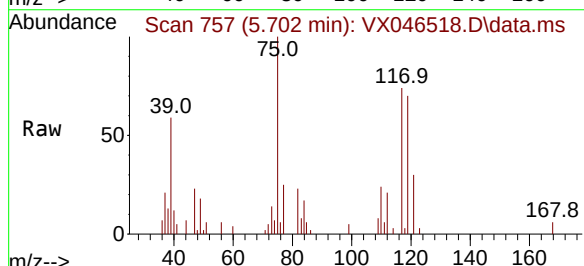
Tgt Ion: 75 Resp: 10048

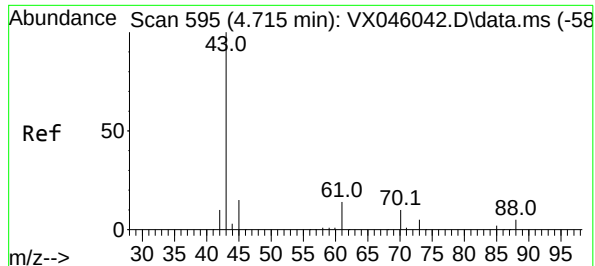
Ion Ratio Lower Upper

75 100

110 29.2 16.3 48.9

77 29.0 24.3 36.5





#37

Ethyl Acetate

Concen: 4.716 ug/l

RT: 4.733 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

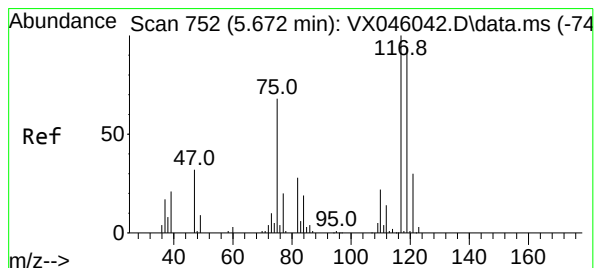
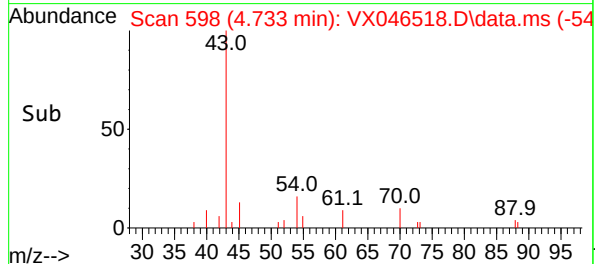
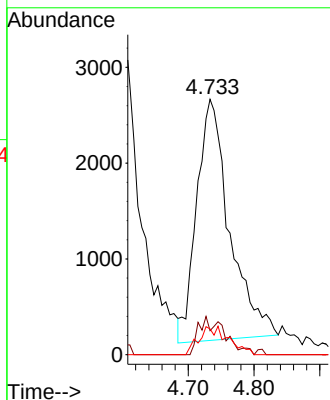
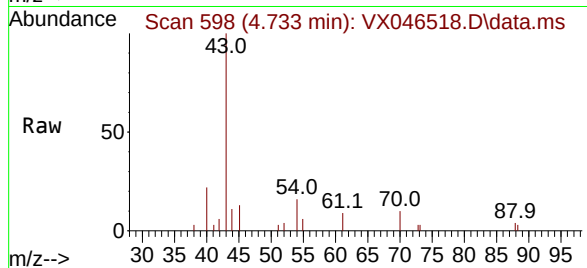
VSTDIC005

Tgt Ion:	43	Resp:	876
Ion	Ratio	Lower	Upper
43	100		
61	5.6	10.3	15.5
70	10.5	7.9	11.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#38

Carbon Tetrachloride

Concen: 5.088 ug/l

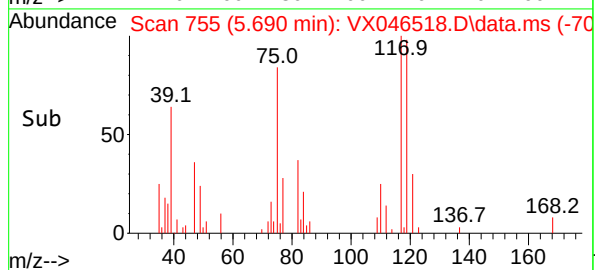
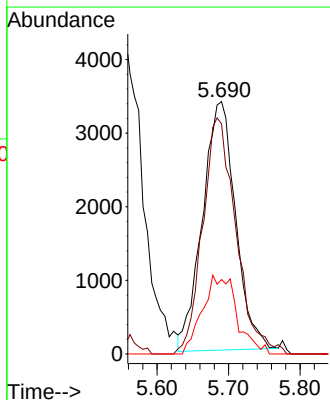
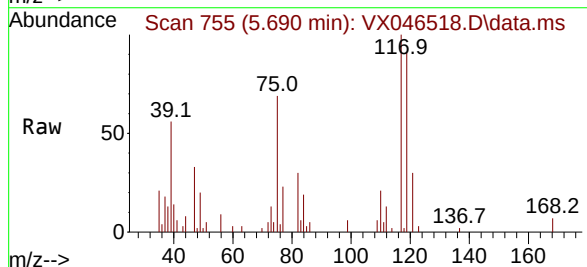
RT: 5.690 min Scan# 755

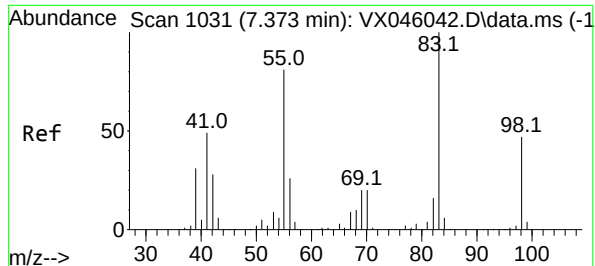
Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Tgt Ion:	117	Resp:	10857
Ion	Ratio	Lower	Upper
117	100		
119	91.3	75.2	112.8
121	30.2	24.2	36.4





#39

Methylcyclohexane

Concen: 5.610 ug/l

RT: 7.385 min Scan# 1031

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

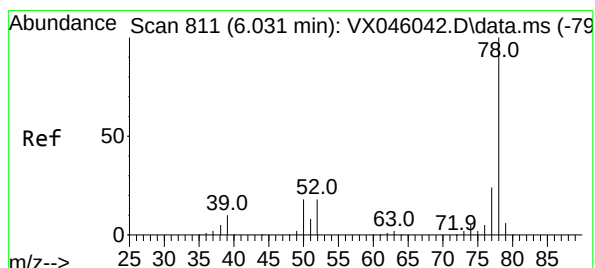
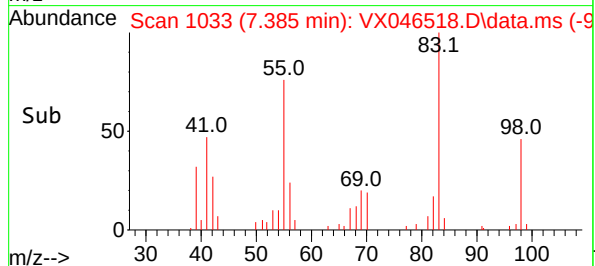
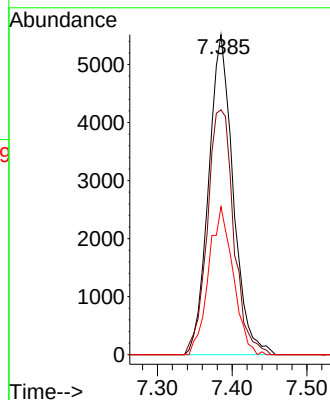
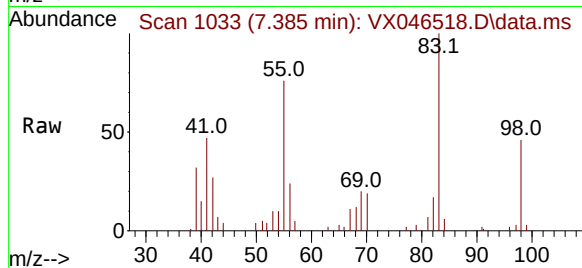
Tgt Ion: 83	Resp: 12614
Ion Ratio	Lower Upper
83	100
55	76.5 64.7 97.1
98	46.2 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#40

Benzene

Concen: 5.400 ug/l

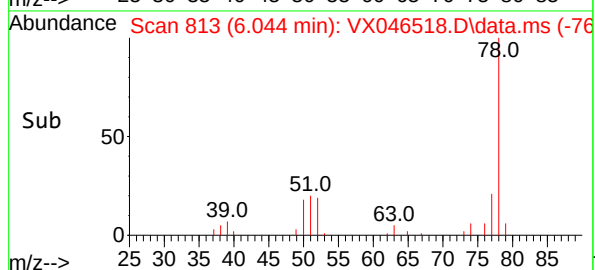
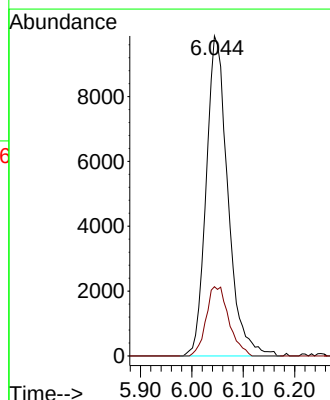
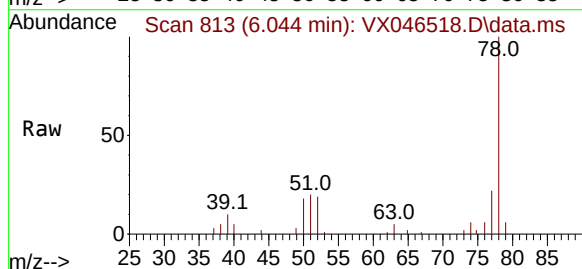
RT: 6.044 min Scan# 813

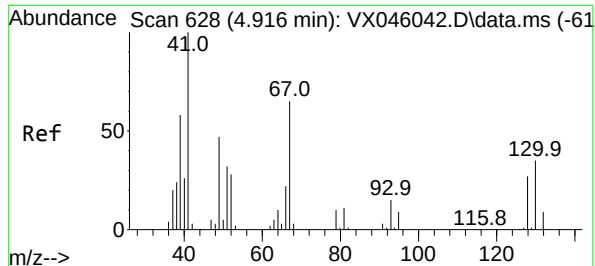
Delta R.T. -0.012 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

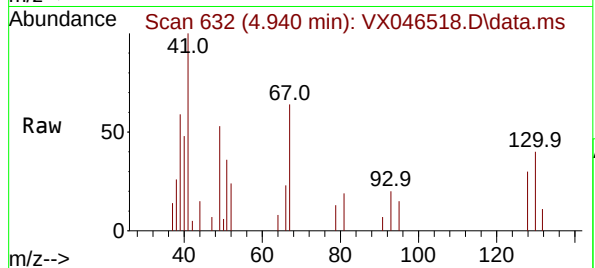
Tgt Ion: 78	Resp: 28961
Ion Ratio	Lower Upper
78	100
77	21.7 19.0 28.4





#41
Methacrylonitrile
Concen: 4.868 ug/l
RT: 4.940 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

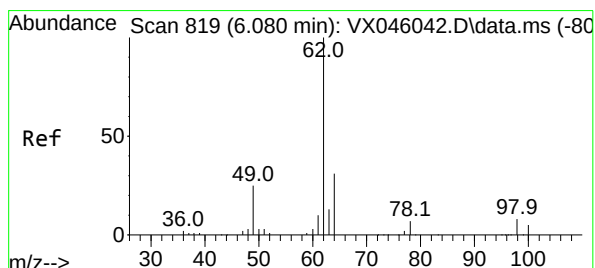
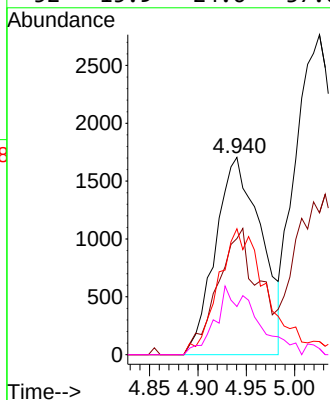
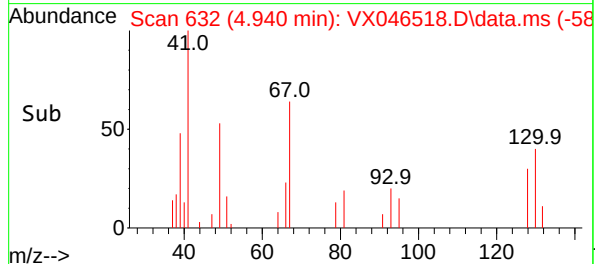
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 41 Resp: 562
Ion Ratio Lower Upper
41 100
39 55.9 47.2 70.8
67 69.4 50.7 76.1
52 15.9 24.6 37.0#

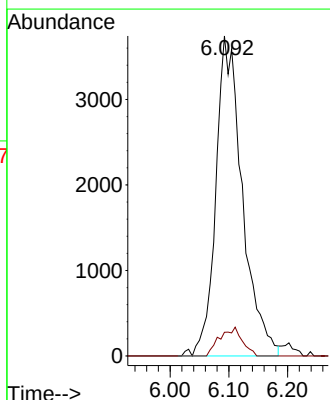
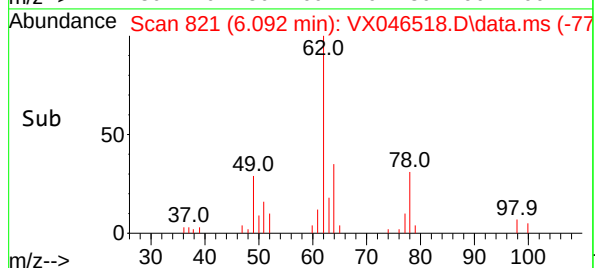
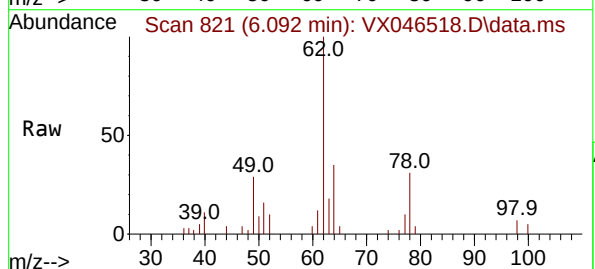
Manual Integrations
APPROVED

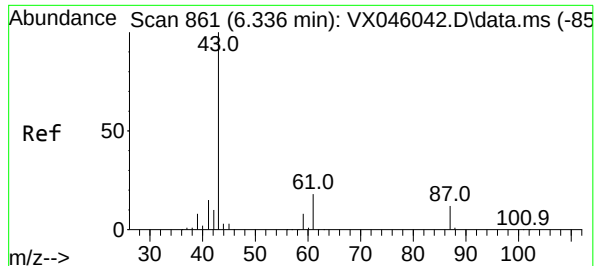
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#42
1,2-Dichloroethane
Concen: 5.252 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion: 62 Resp: 11718
Ion Ratio Lower Upper
62 100
98 7.6 0.0 15.2





#43

Isopropyl Acetate

Concen: 4.712 ug/l

RT: 6.349 min Scan# 863

Delta R.T. -0.006 min

Lab File: VX046518.D

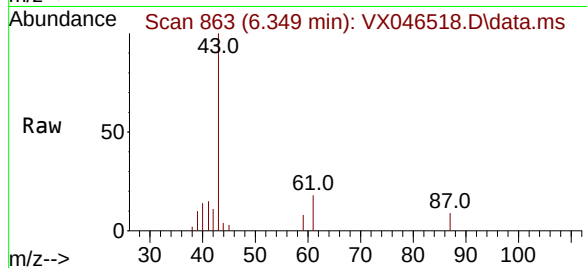
Acq: 06 Jun 2025 09:42

Instrument :

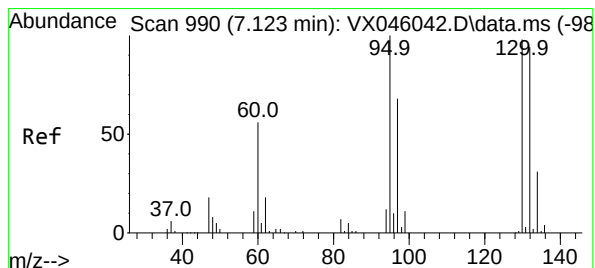
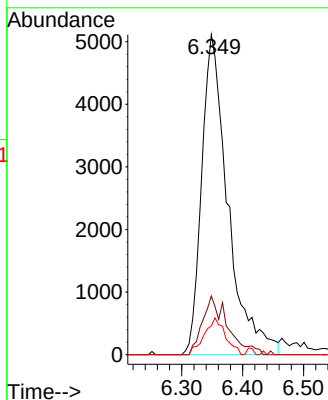
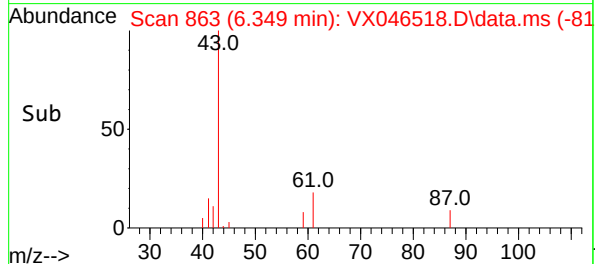
MSVOA_X

ClientSampleId :

VSTDIC005



Tgt Ion: 43	Resp: 1527
Ion Ratio	Lower Upper
43	100
61	17.6 14.3 21.5
87	9.2 9.5 14.3

Manual Integrations
APPROVEDReviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

#44

Trichloroethene

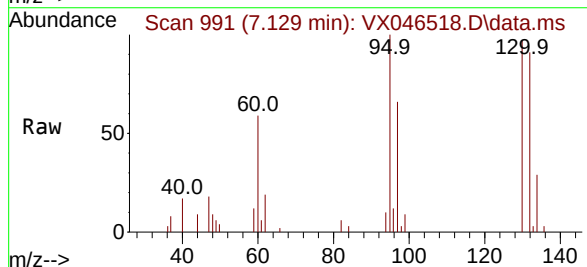
Concen: 5.121 ug/l

RT: 7.129 min Scan# 991

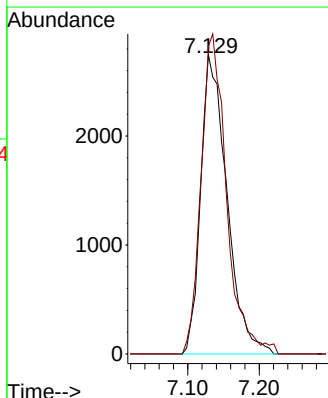
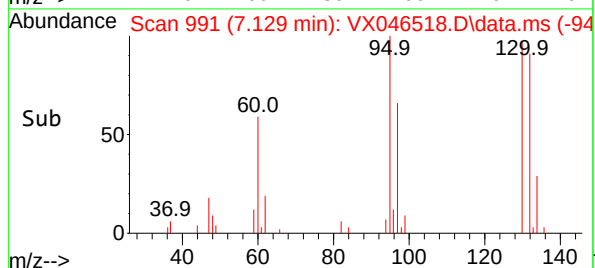
Delta R.T. -0.006 min

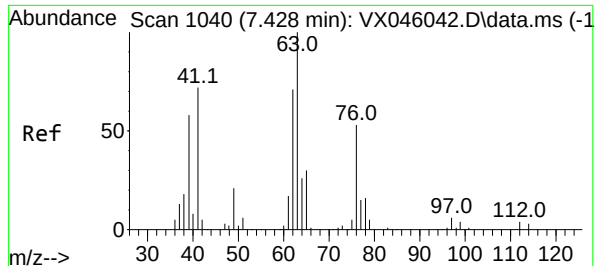
Lab File: VX046518.D

Acq: 06 Jun 2025 09:42



Tgt Ion:130	Resp: 6978
Ion Ratio	Lower Upper
130	100
95	102.9 0.0 204.2





#45

1,2-Dichloropropane

Concen: 5.152 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 713

Ion Ratio Lower Upper

63 100

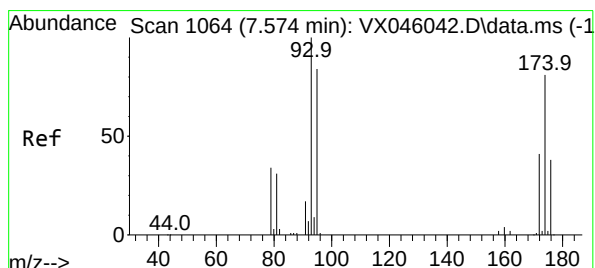
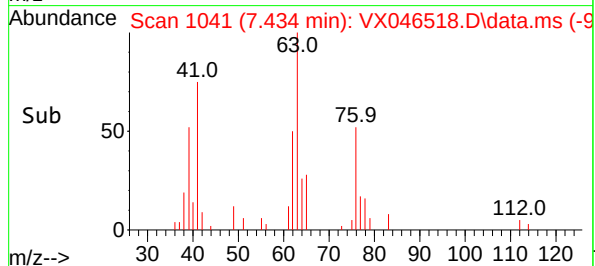
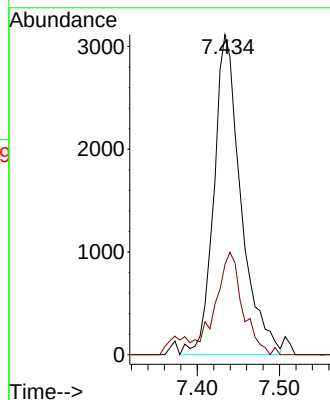
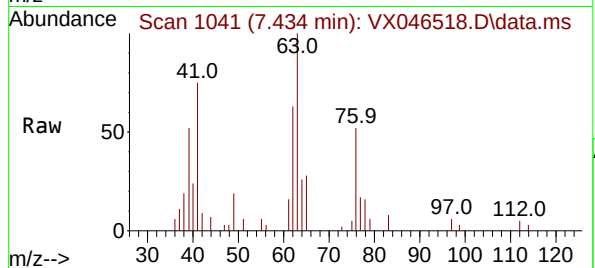
65 28.2 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#46

Dibromomethane

Concen: 5.366 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

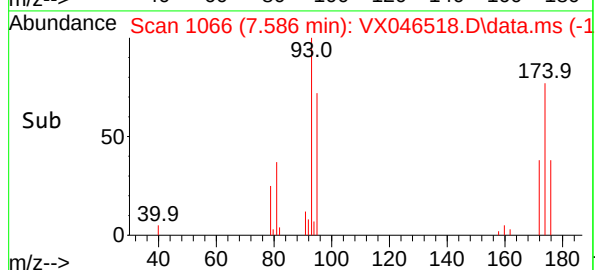
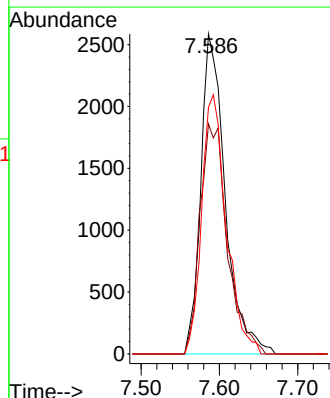
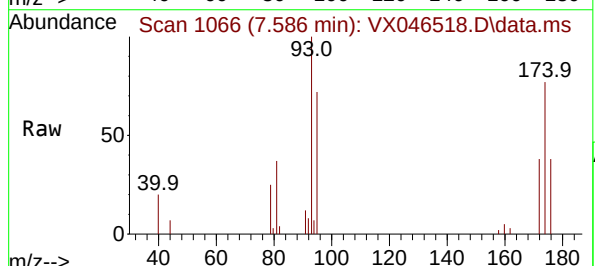
Tgt Ion: 93 Resp: 5588

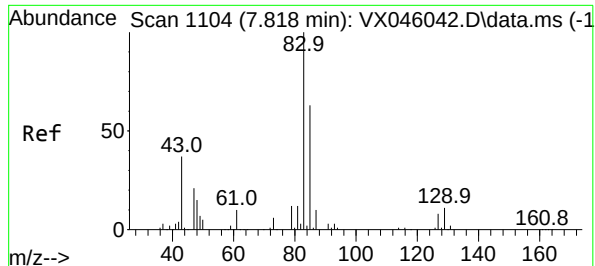
Ion Ratio Lower Upper

93 100

95 80.4 65.6 98.4

174 81.8 68.2 102.2





#47

Bromodichloromethane

Concen: 4.915 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

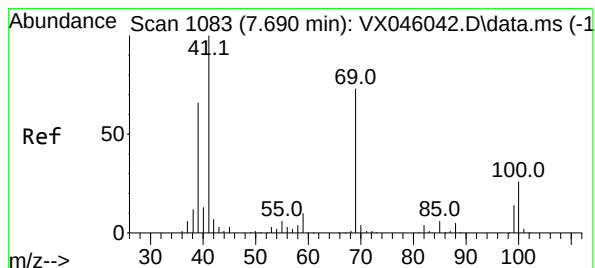
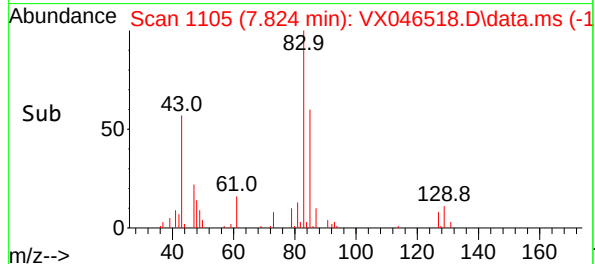
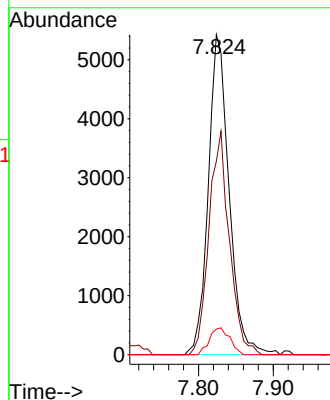
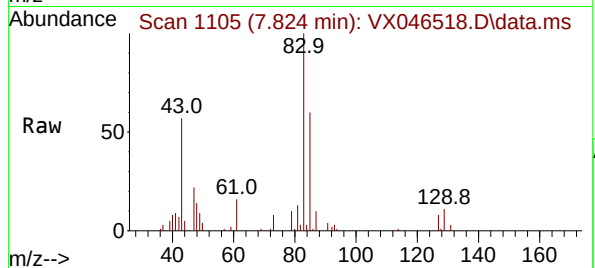
VSTDICC005

Tgt Ion:	83	Resp:	10524
Ion	Ratio	Lower	Upper
83	100		
85	60.4	50.5	75.7
127	8.0	6.5	9.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#48

Methyl methacrylate

Concen: 4.595 ug/l

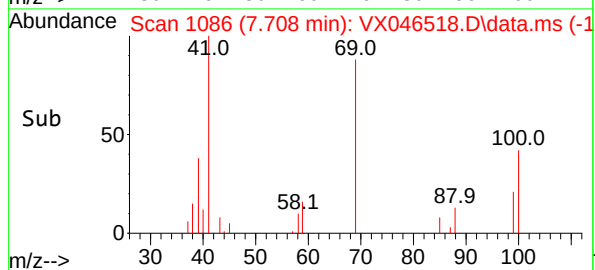
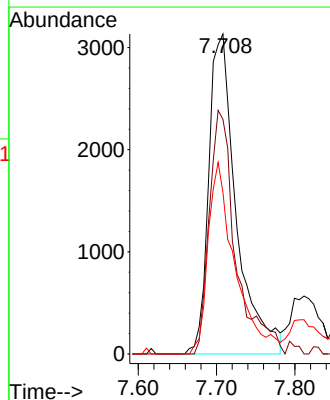
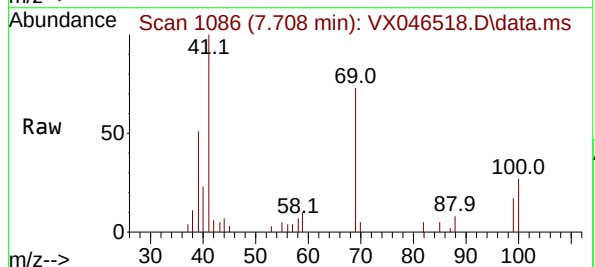
RT: 7.708 min Scan# 1086

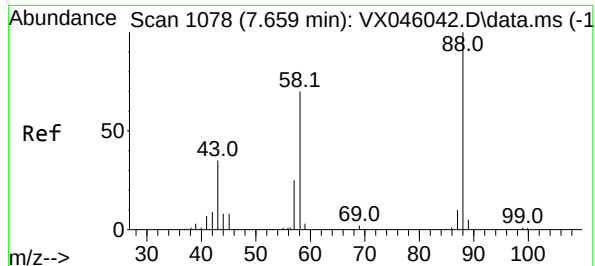
Delta R.T. 0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Tgt Ion:	41	Resp:	7663
Ion	Ratio	Lower	Upper
41	100		
69	73.0	58.5	87.7
39	58.9	51.7	77.5





#49

1,4-Dioxane

Concen: 99.585 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

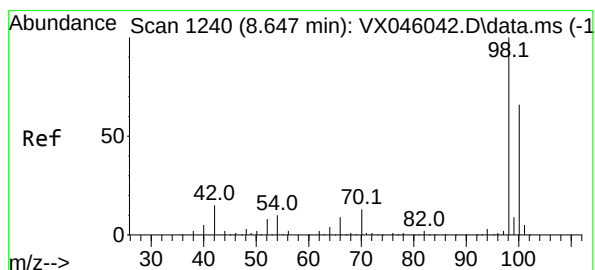
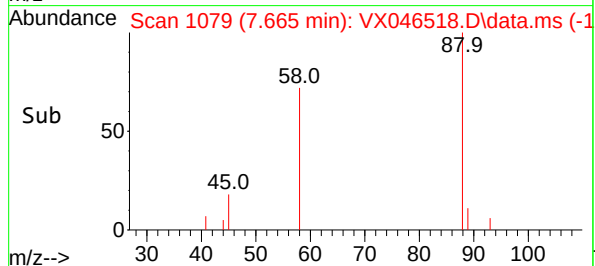
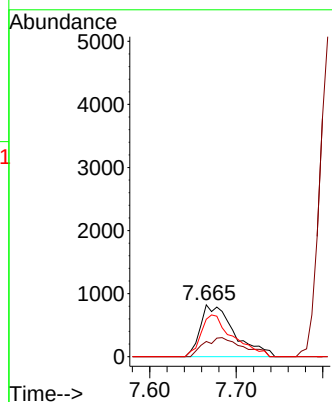
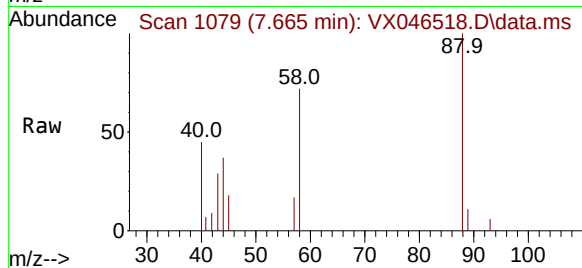
VSTDIC005

Tgt Ion:	88	Resp:	222
Ion	Ratio	Lower	Upper
88	100		
43	42.8	33.4	50.2
58	75.7	58.6	88.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#50

Toluene-d8

Concen: 5.618 ug/l

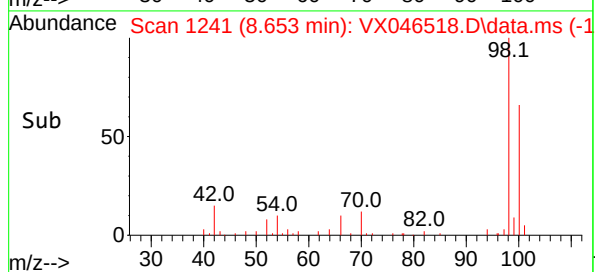
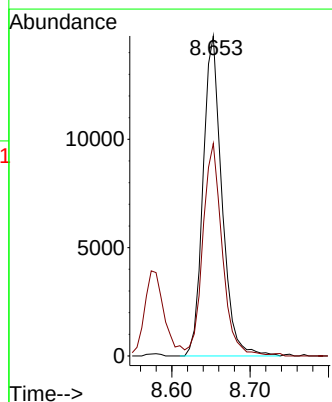
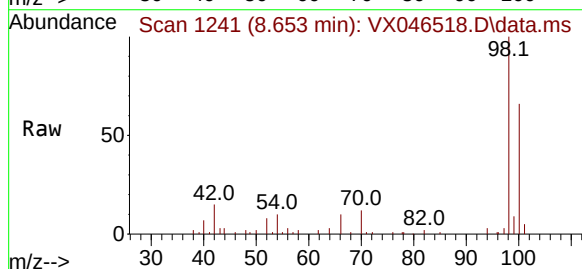
RT: 8.653 min Scan# 1241

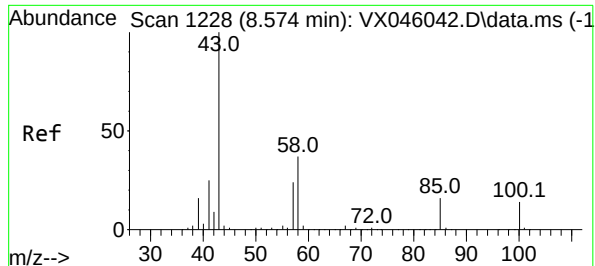
Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Tgt Ion:	98	Resp:	24704
Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.5	80.3





#51

4-Methyl-2-Pentanone

Concen: 24.133 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 49709

Ion Ratio Lower Upper

43 100

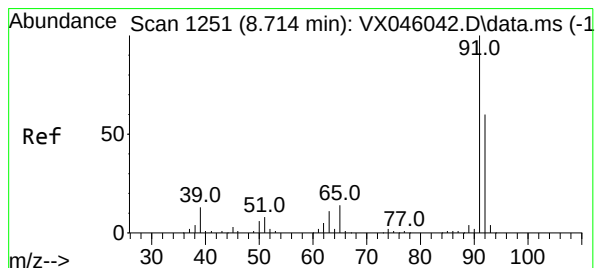
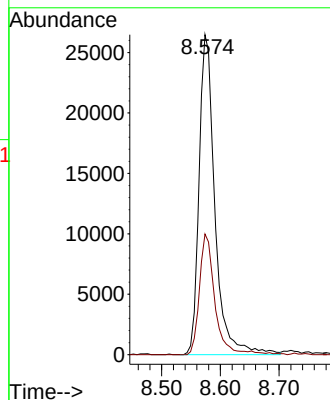
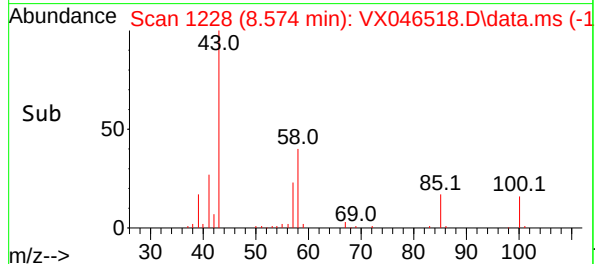
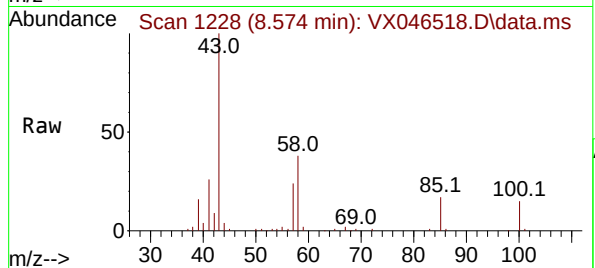
58 37.0 28.9 43.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#52

Toluene

Concen: 5.394 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX046518.D

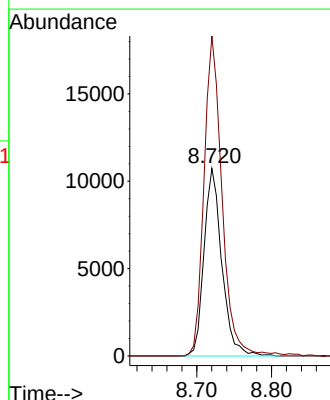
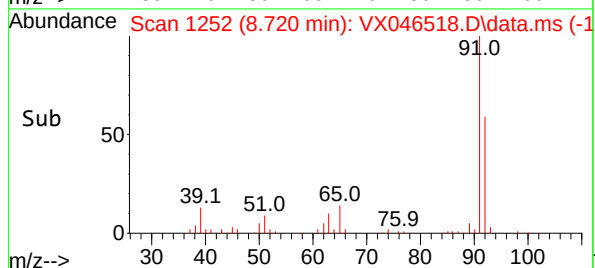
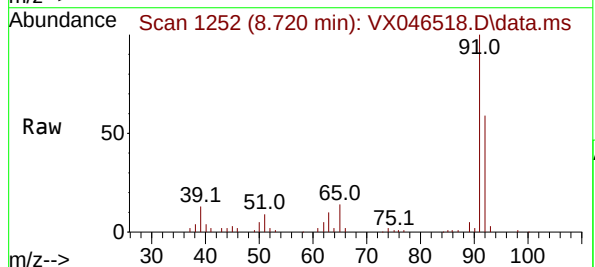
Acq: 06 Jun 2025 09:42

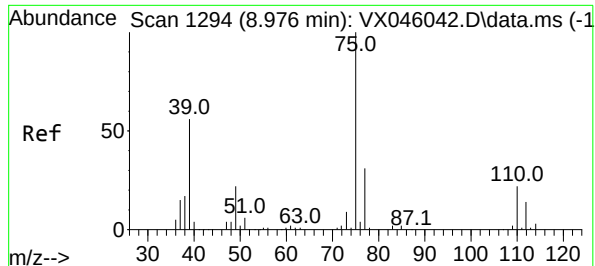
Tgt Ion: 92 Resp: 17773

Ion Ratio Lower Upper

92 100

91 172.2 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 4.429 ug/l

RT: 8.982 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 850

Ion Ratio Lower Upper

75 100

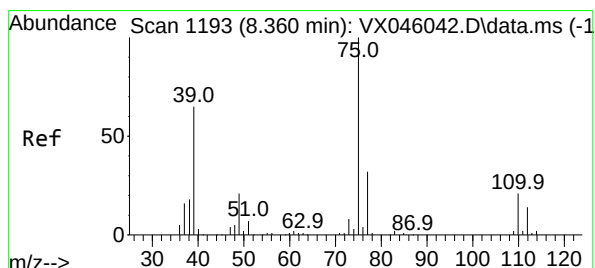
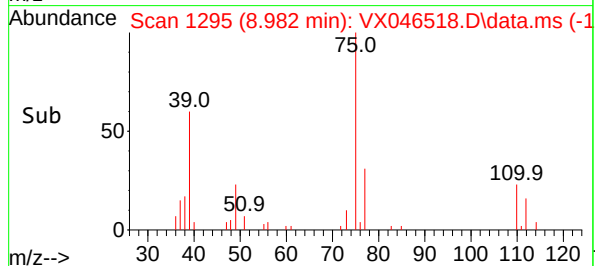
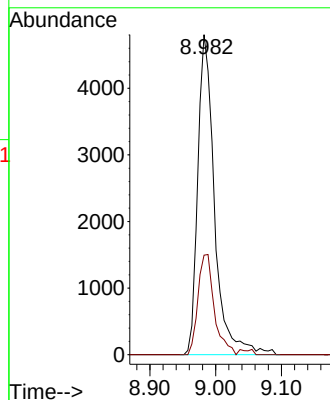
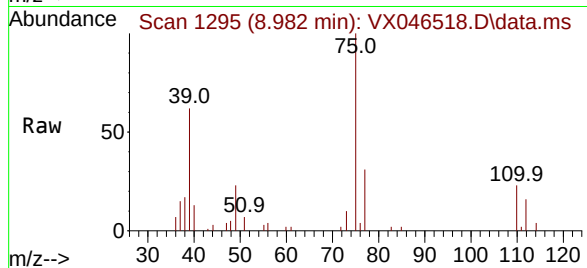
77 31.1 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#54

cis-1,3-Dichloropropene

Concen: 4.817 ug/l

RT: 8.373 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

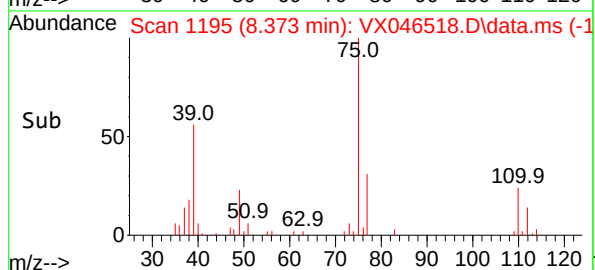
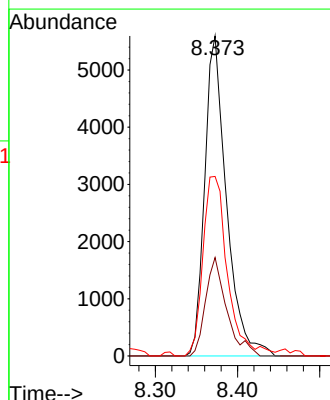
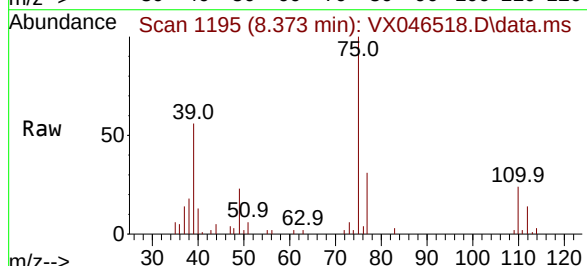
Tgt Ion: 75 Resp: 10282

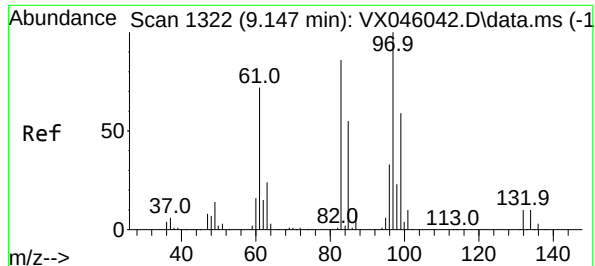
Ion Ratio Lower Upper

75 100

77 30.8 25.4 38.0

39 56.1 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 5.136 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

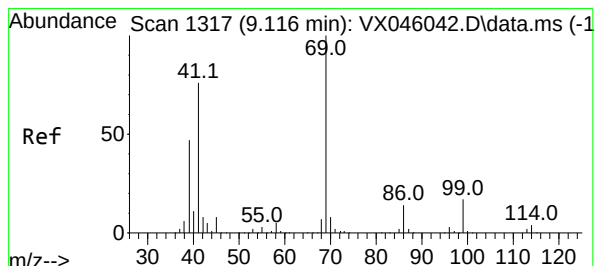
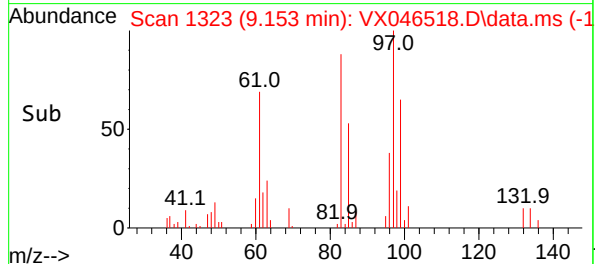
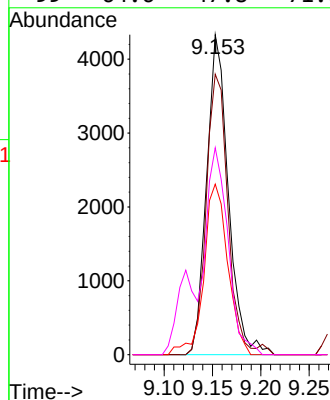
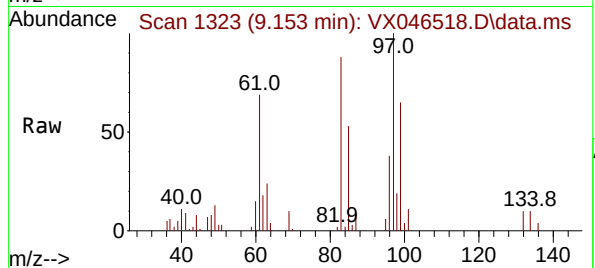
Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 97	Resp: 6794
Ion Ratio	Lower Upper
97	100
83	87.7 69.0 103.6
85	53.3 44.3 66.5
99	64.6 47.8 71.6

Manual Integrations
APPROVEDReviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

#56

Ethyl methacrylate

Concen: 4.777 ug/l

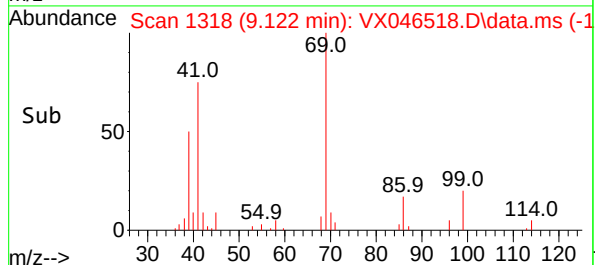
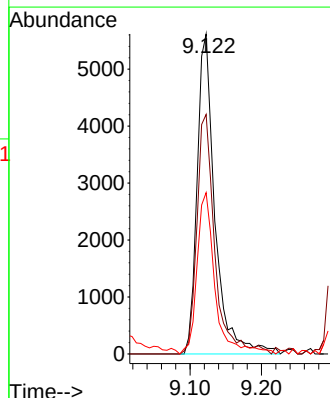
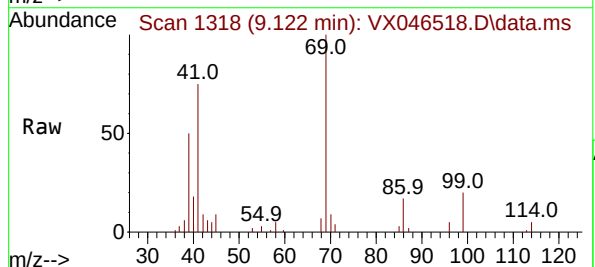
RT: 9.122 min Scan# 1318

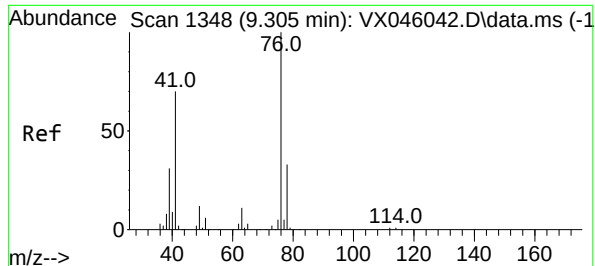
Delta R.T. 0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Tgt Ion: 69	Resp: 9723
Ion Ratio	Lower Upper
69	100
41	73.6 60.8 91.2
39	50.6 39.0 58.6





#57

1,3-Dichloropropane

Concen: 5.148 ug/l

RT: 9.311 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 1203

Ion Ratio Lower Upper

76 100

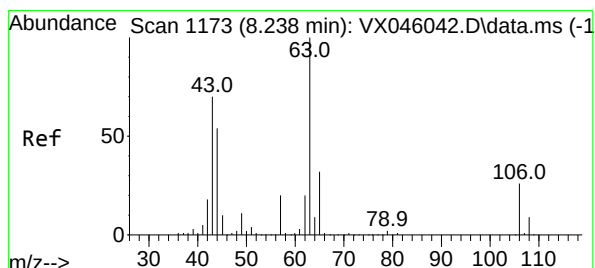
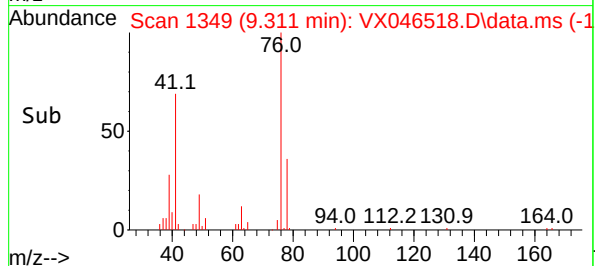
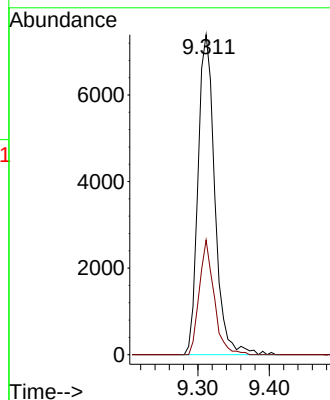
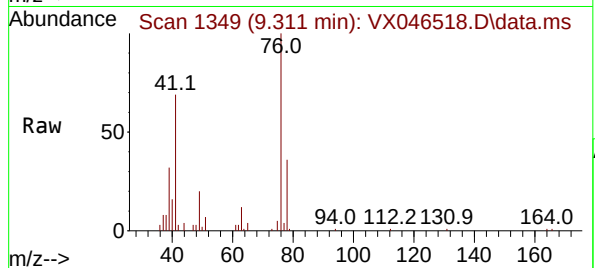
78 31.8 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#58

2-Chloroethyl Vinyl ether

Concen: 24.645 ug/l

RT: 8.245 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046518.D

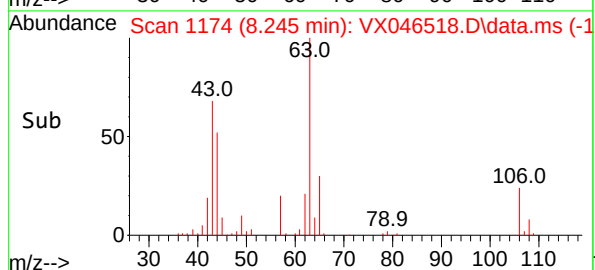
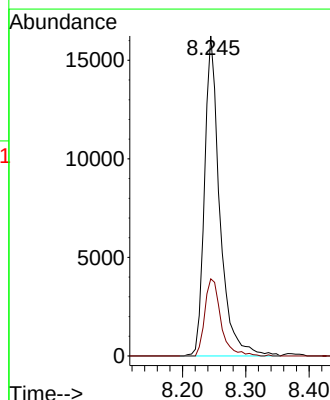
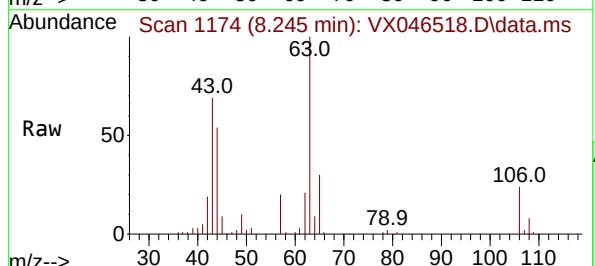
Acq: 06 Jun 2025 09:42

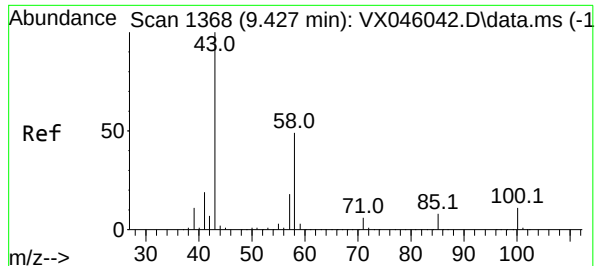
Tgt Ion: 63 Resp: 27324

Ion Ratio Lower Upper

63 100

106 25.2 21.5 32.3





#59

2-Hexanone

Concen: 23.102 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 34128

Ion Ratio Lower Upper

43 100

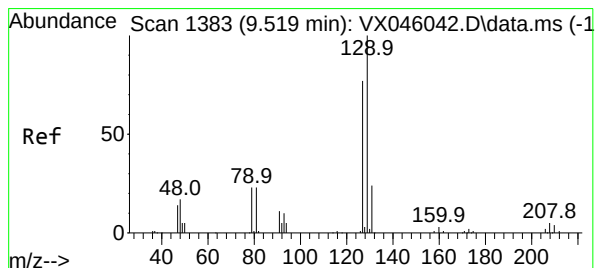
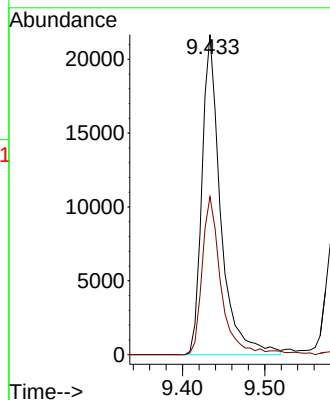
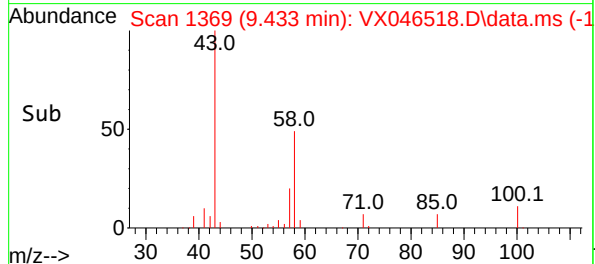
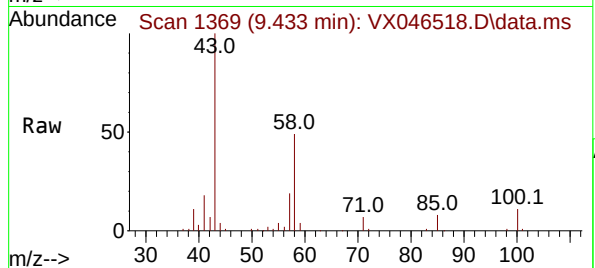
58 50.8 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#60

Dibromochloromethane

Concen: 5.018 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.006 min

Lab File: VX046518.D

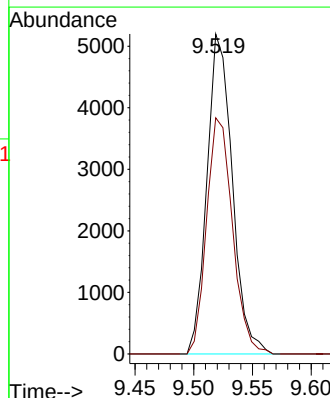
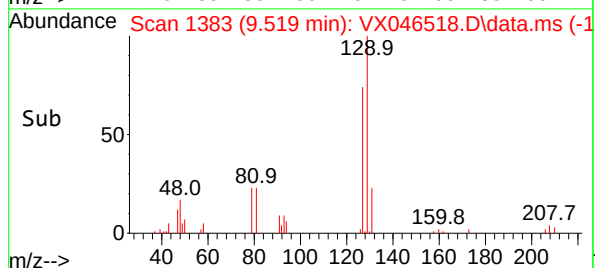
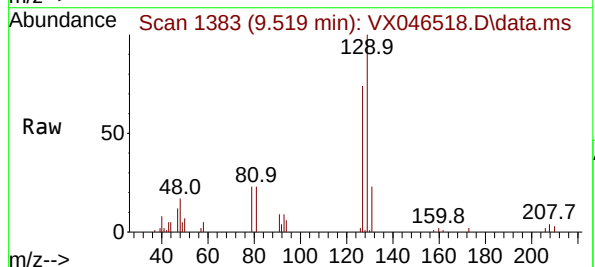
Acq: 06 Jun 2025 09:42

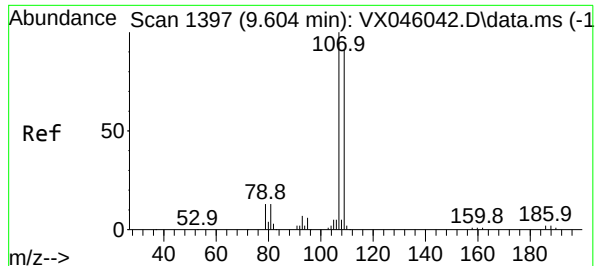
Tgt Ion:129 Resp: 7808

Ion Ratio Lower Upper

129 100

127 75.4 39.3 117.8





#61
1,2-Dibromoethane
Concen: 4.833 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

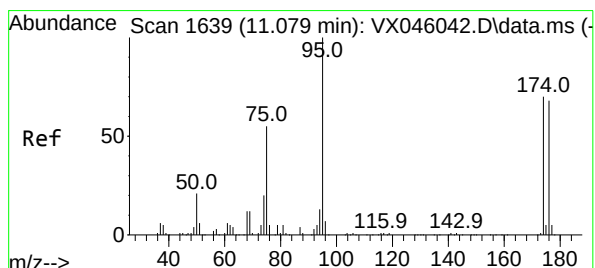
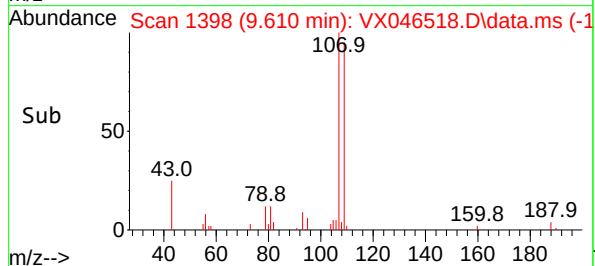
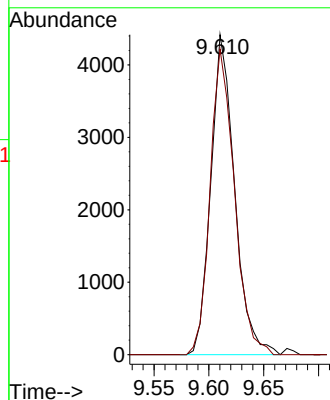
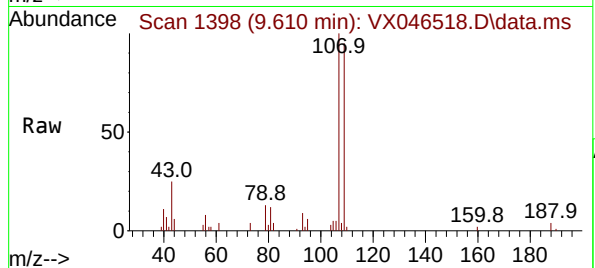
ClientSampleId :

VSTDICC005

Tgt Ion:107 Resp: 666
Ion Ratio Lower Upper
107 100
109 97.5 73.3 109.9

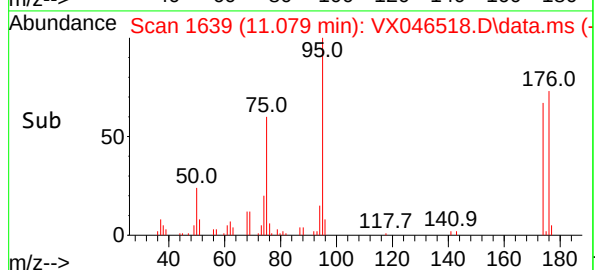
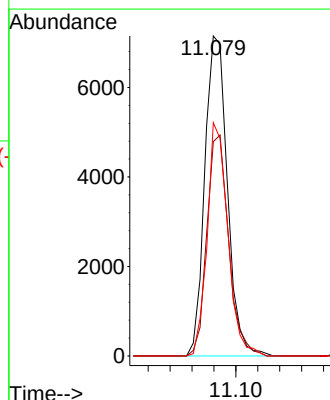
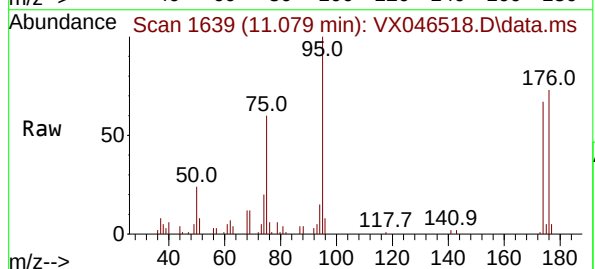
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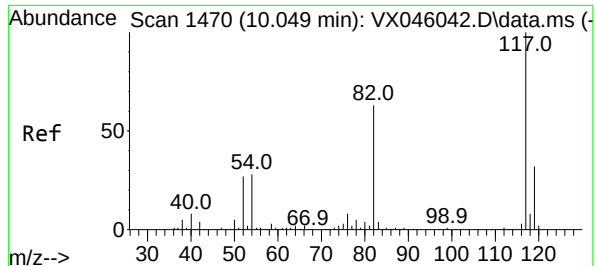
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#62
4-Bromofluorobenzene
Concen: 5.620 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion: 95 Resp: 10224
Ion Ratio Lower Upper
95 100
174 66.7 0.0 135.8
176 66.3 0.0 131.4





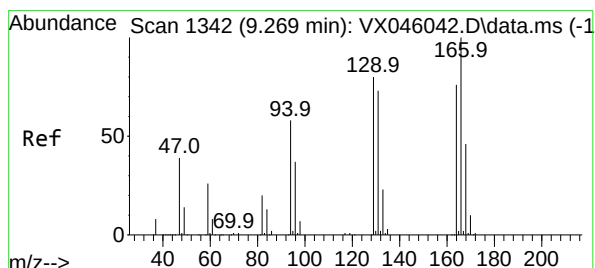
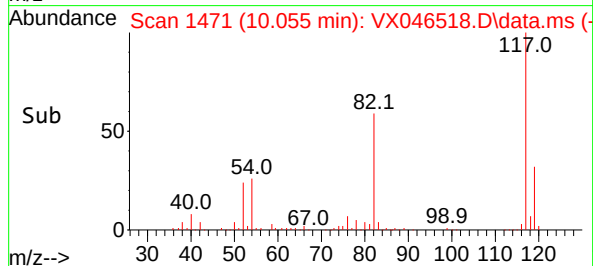
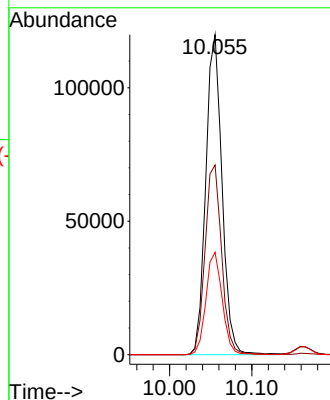
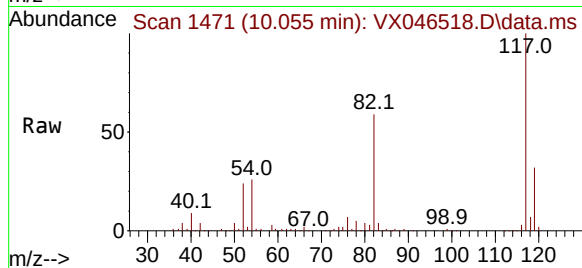
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:117 Resp: 164490
Ion Ratio Lower Upper
117 100
82 59.3 50.6 76.0
119 32.0 25.8 38.6

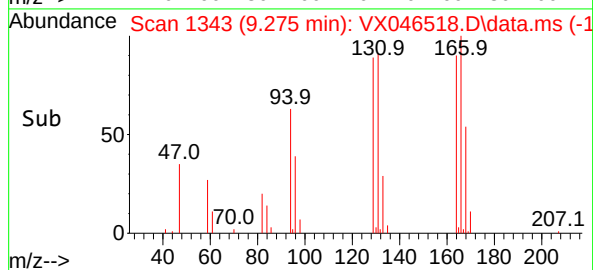
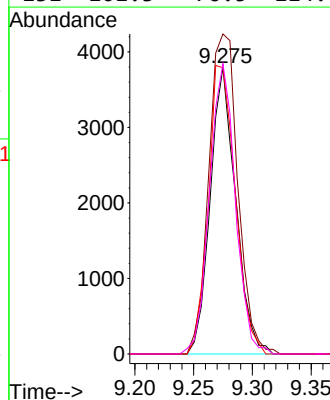
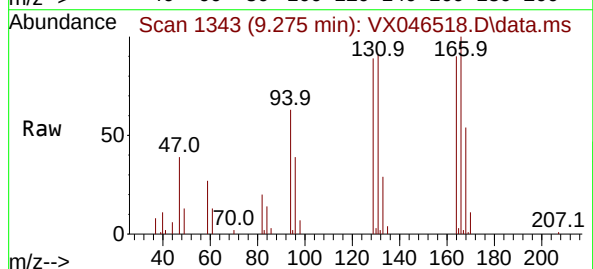
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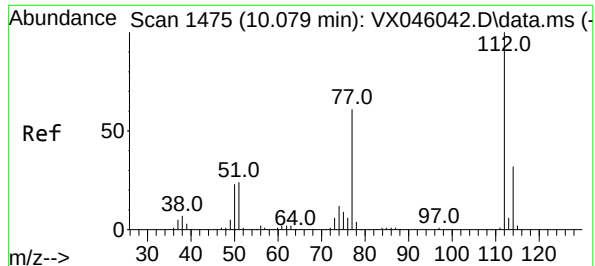
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#64
Tetrachloroethene
Concen: 5.186 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion:164 Resp: 5704
Ion Ratio Lower Upper
164 100
166 111.7 105.0 157.6
129 99.9 83.5 125.3
131 101.3 76.5 114.7





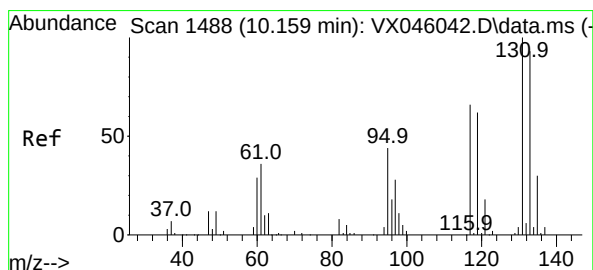
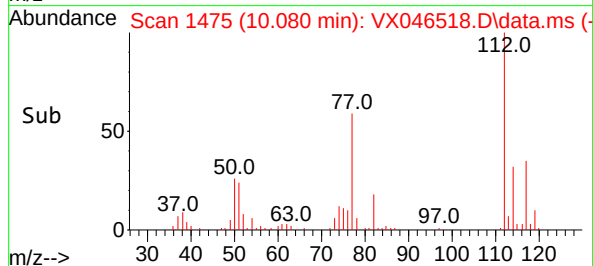
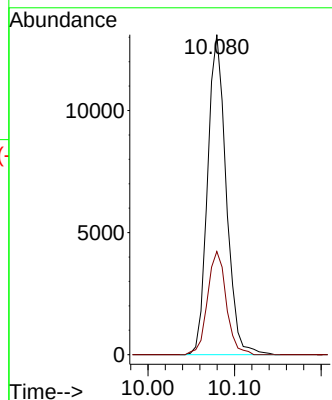
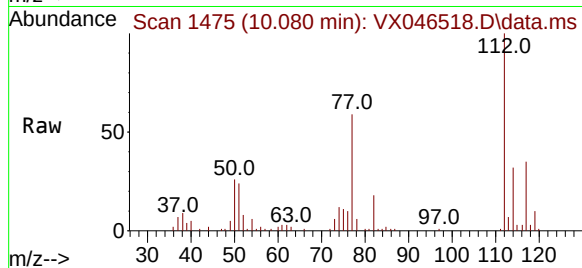
#65
Chlorobenzene
Concen: 5.048 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:112 Resp: 19529
Ion Ratio Lower Upper
112 100
114 32.3 25.4 38.2

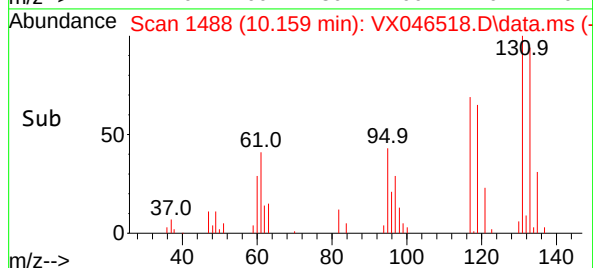
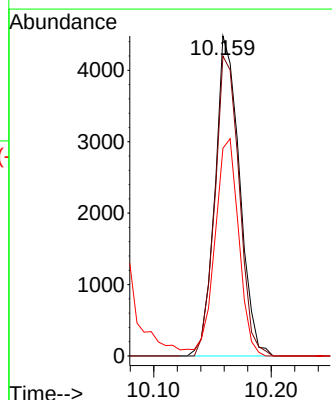
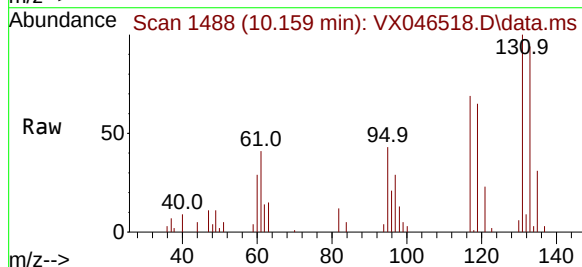
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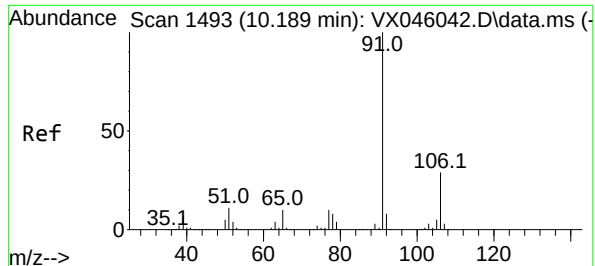
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 4.963 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion:131 Resp: 6488
Ion Ratio Lower Upper
131 100
133 93.0 47.3 141.9
119 65.5 31.6 95.0





#67

Ethyl Benzene

Concen: 5.098 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 34429

Ion Ratio Lower Upper

91 100

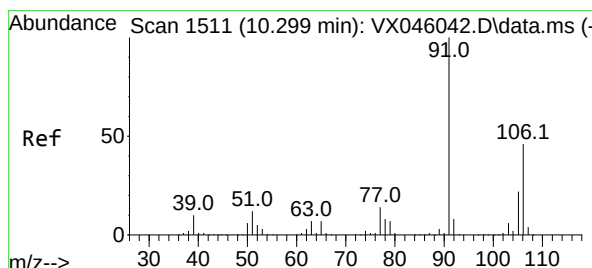
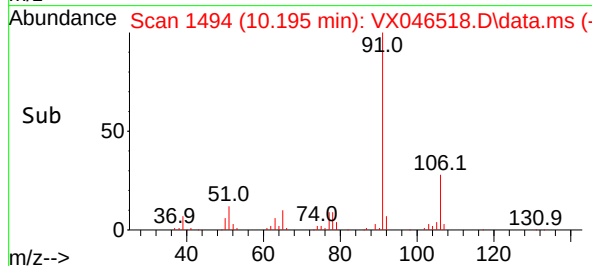
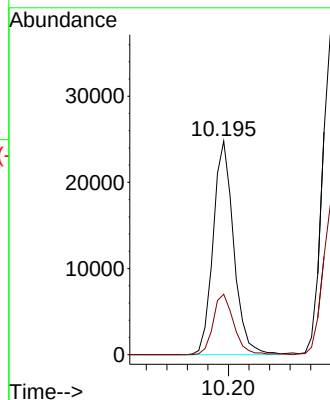
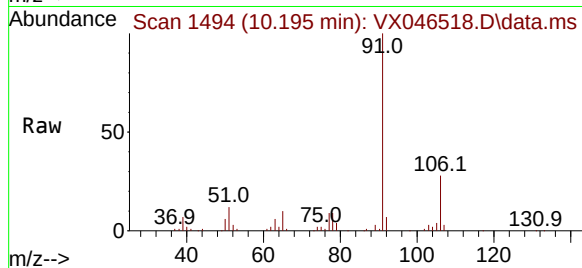
106 28.3 23.4 35.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#68

m/p-Xylenes

Concen: 10.146 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX046518.D

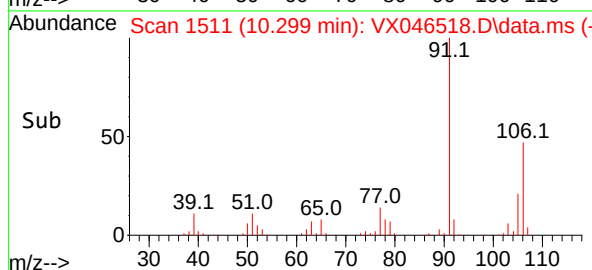
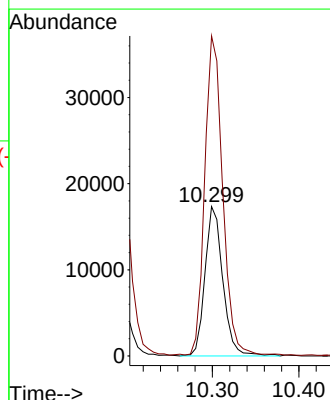
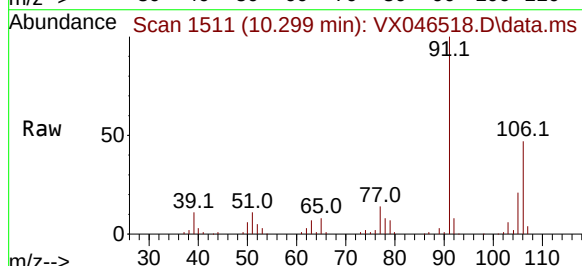
Acq: 06 Jun 2025 09:42

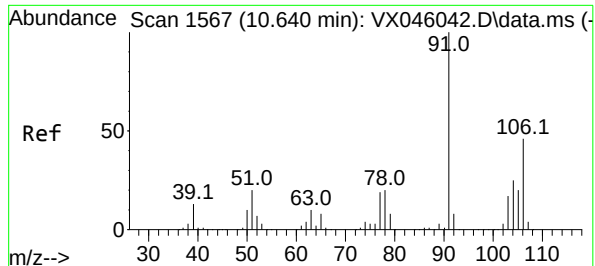
Tgt Ion:106 Resp: 24857

Ion Ratio Lower Upper

106 100

91 215.2 171.2 256.8





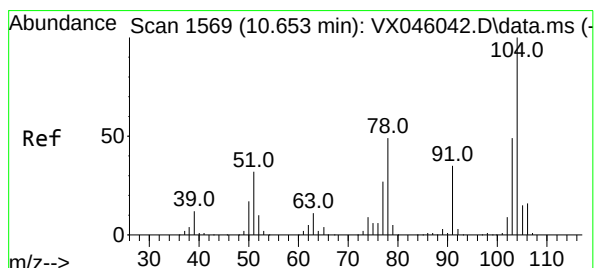
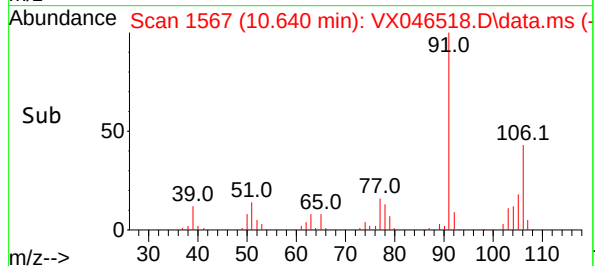
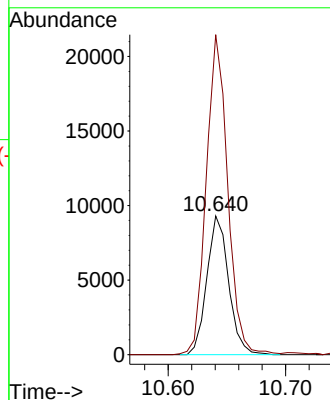
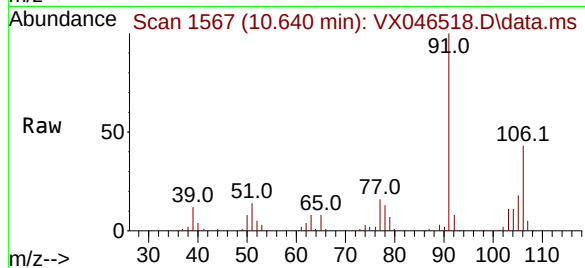
#69
o-Xylene
Concen: 5.054 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:106 Resp: 11970
Ion Ratio Lower Upper
106 100
91 226.9 112.7 338.1

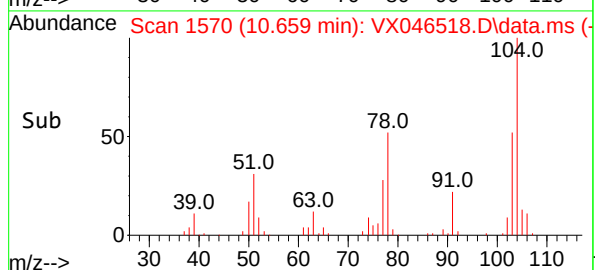
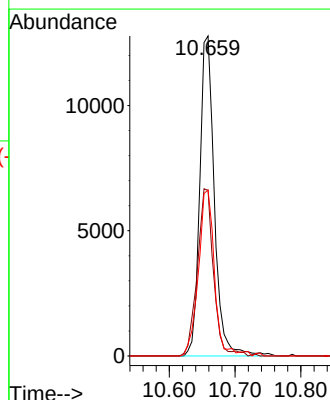
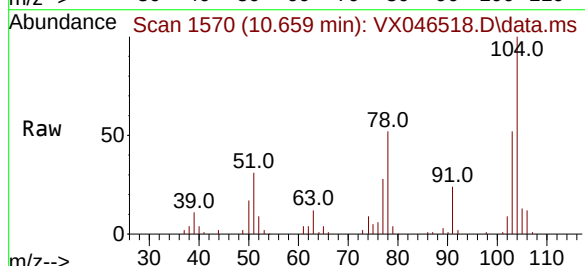
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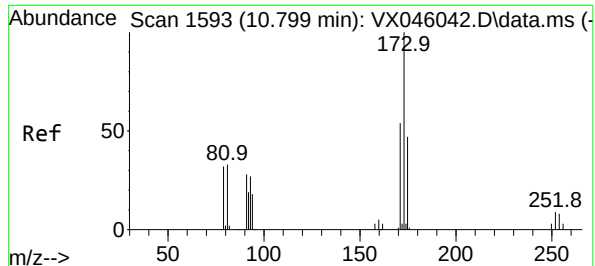
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#70
Styrene
Concen: 4.888 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

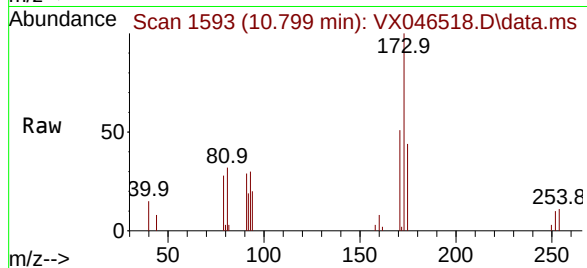
Tgt Ion:104 Resp: 19826
Ion Ratio Lower Upper
104 100
78 57.5 45.7 68.5
103 56.7 43.7 65.5





#71
Bromoform
Concen: 4.432 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

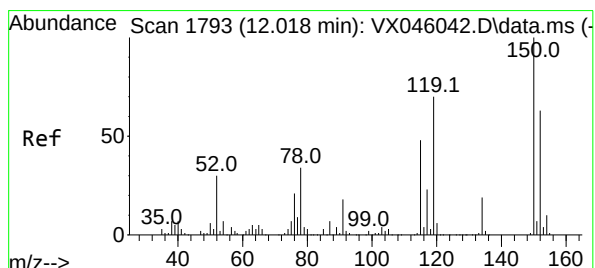
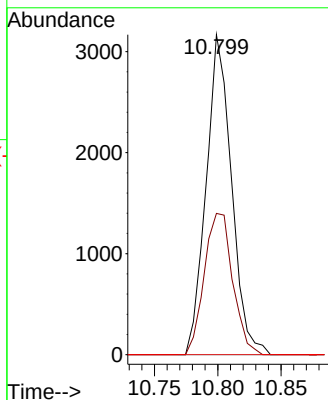
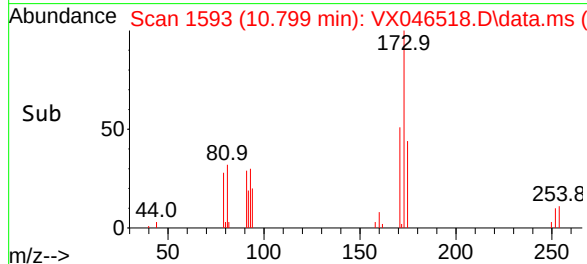
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:173 Resp: 4418
Ion Ratio Lower Upper
173 100
175 49.5 23.4 70.0
254 0.0 0.0 0.0

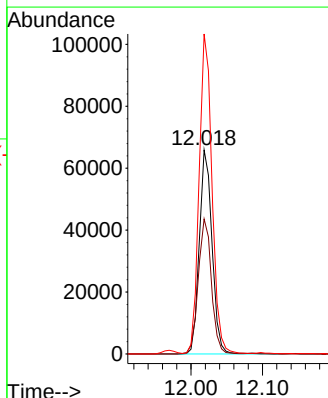
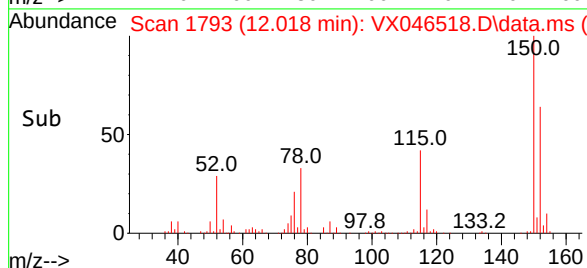
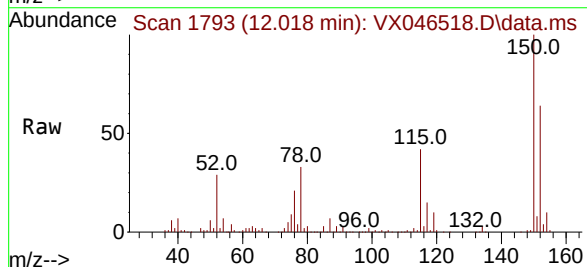
Manual Integrations
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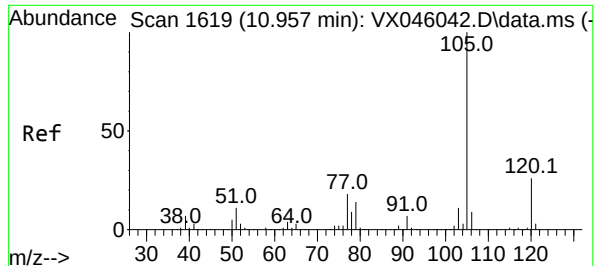
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion:152 Resp: 81515
Ion Ratio Lower Upper
152 100
115 68.3 46.9 140.7
150 157.5 0.0 351.0





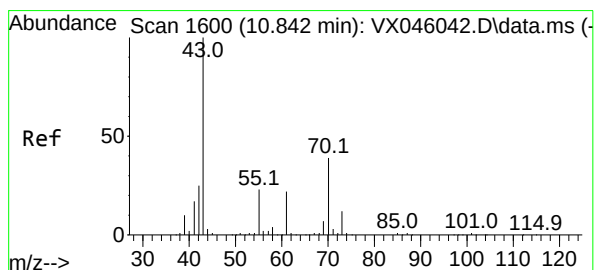
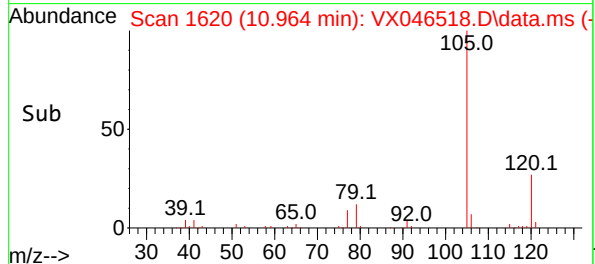
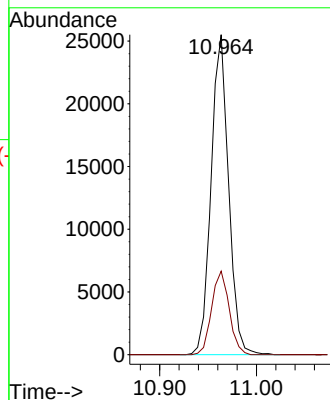
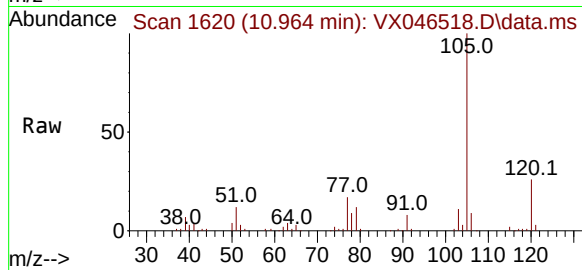
#73
Isopropylbenzene
Concen: 5.007 ug/l
RT: 10.964 min Scan# 1601
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:105 Resp: 3208
Ion Ratio Lower Upper
105 100
120 26.2 12.8 38.4

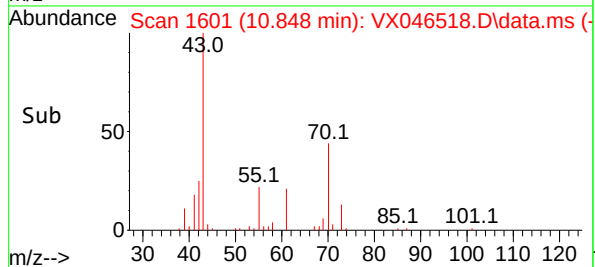
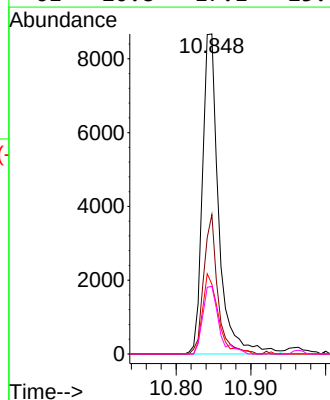
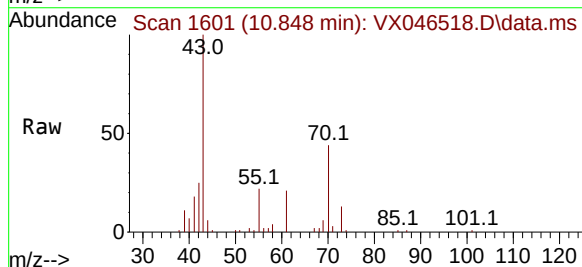
Manual Integrations
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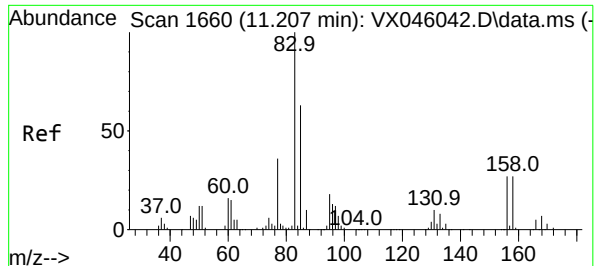
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#74
N-ethyl acetate
Concen: 4.658 ug/l
RT: 10.848 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

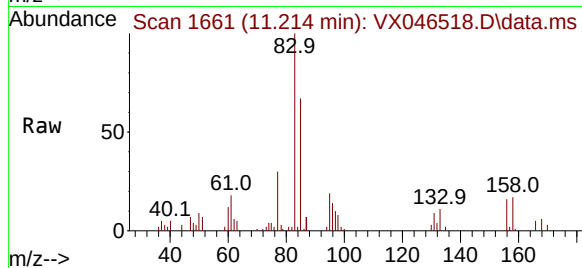
Tgt Ion: 43 Resp: 13145
Ion Ratio Lower Upper
43 100
70 37.3 30.9 46.3
55 23.9 18.7 28.1
61 20.8 17.1 25.7





#75
1,1,2,2-Tetrachloroethane
Concen: 5.144 ug/l
RT: 11.214 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

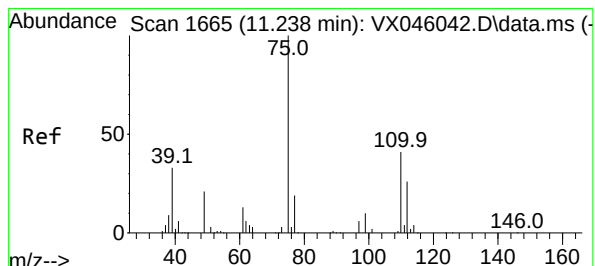
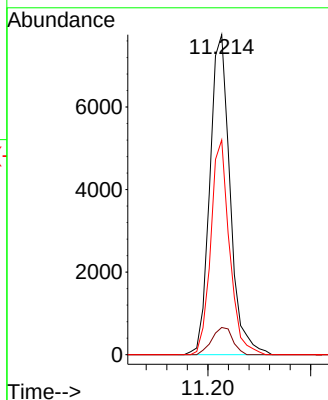
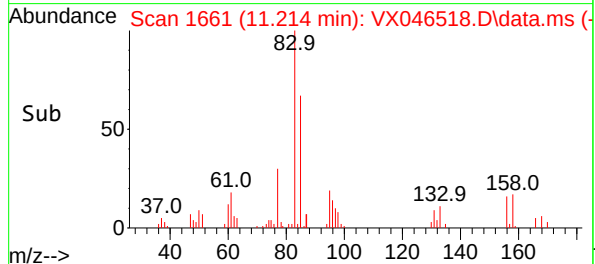
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 83 Resp: 1055
Ion Ratio Lower Upper
83 100
131 8.8 5.0 14.9
85 62.2 31.9 95.7

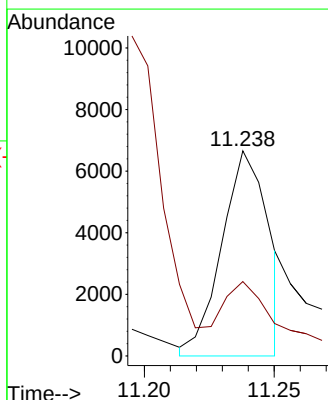
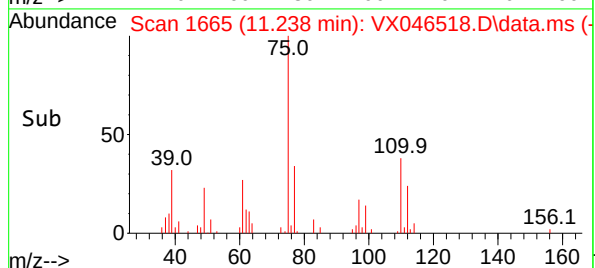
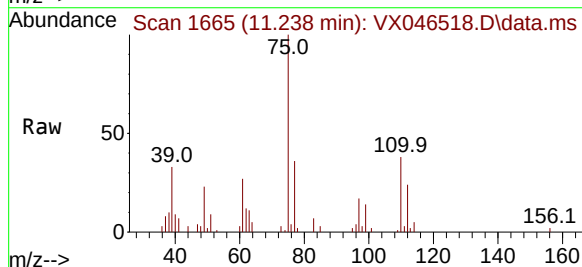
Manual Integrations
APPROVED

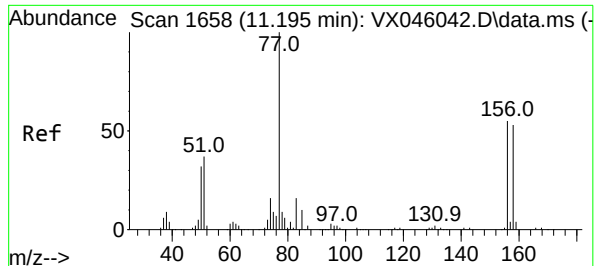
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#76
1,2,3-Trichloropropane
Concen: 4.746 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion: 75 Resp: 8330
Ion Ratio Lower Upper
75 100
77 42.3 20.5 61.5





#77

Bromobenzene

Concen: 4.953 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:156 Resp: 736

Ion Ratio Lower Upper

156 100

77 189.0 92.8 278.3

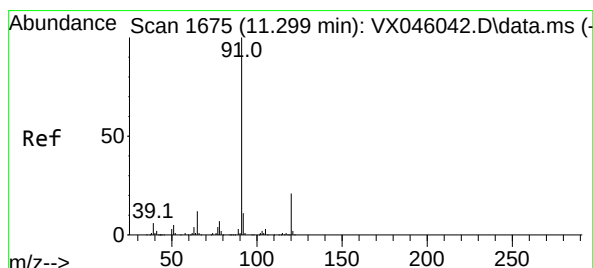
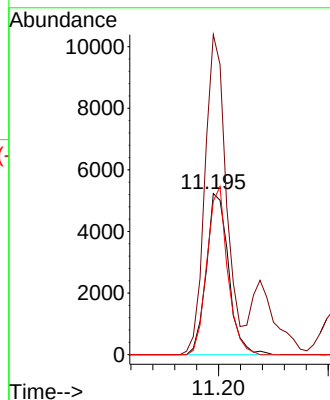
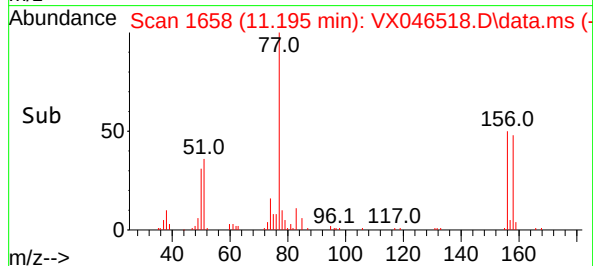
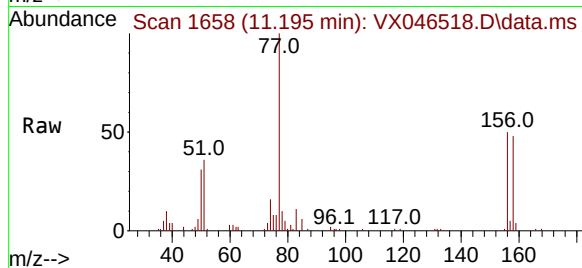
158 96.7 48.8 146.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#78

n-propylbenzene

Concen: 4.896 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. 0.000 min

Lab File: VX046518.D

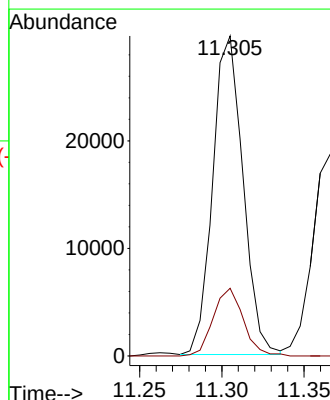
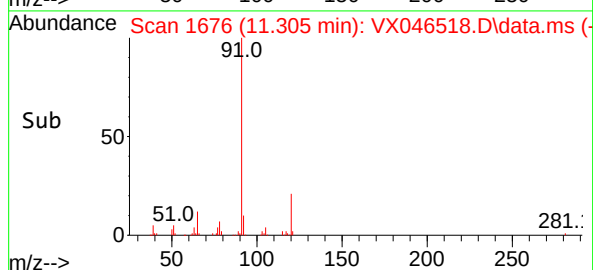
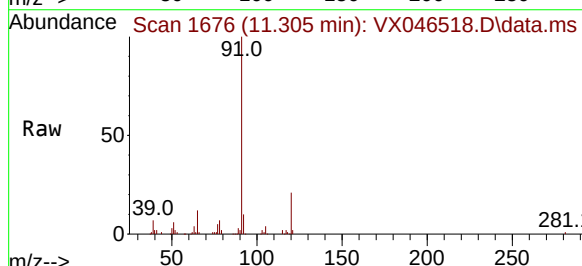
Acq: 06 Jun 2025 09:42

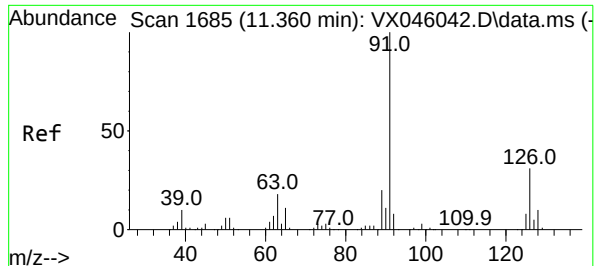
Tgt Ion: 91 Resp: 37974

Ion Ratio Lower Upper

91 100

120 21.1 10.8 32.4





#79

2-Chlorotoluene

Concen: 5.028 ug/l

RT: 11.366 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 23514

Ion Ratio Lower Upper

91 100

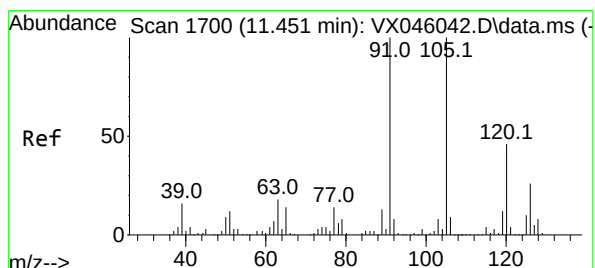
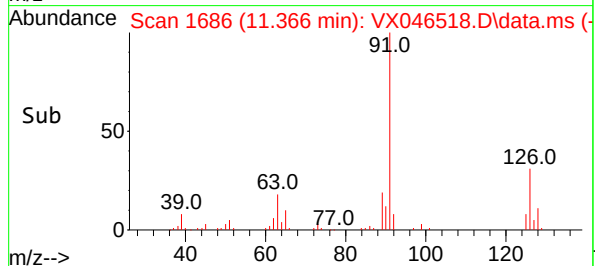
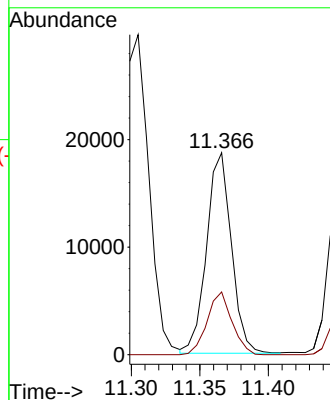
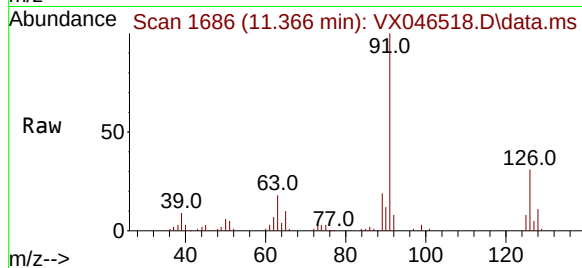
126 31.2 15.6 46.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#80

1,3,5-Trimethylbenzene

Concen: 5.083 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046518.D

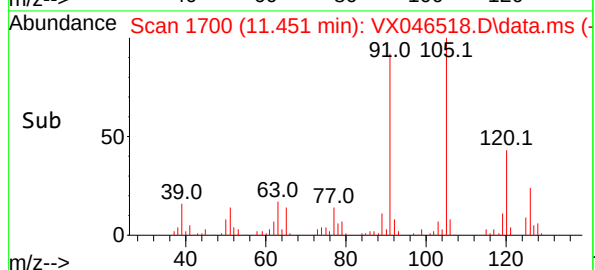
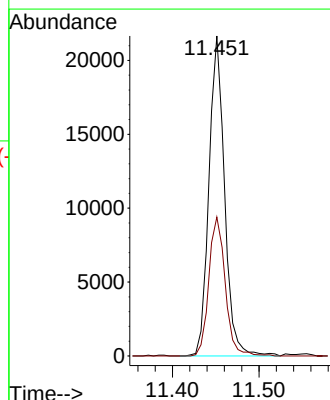
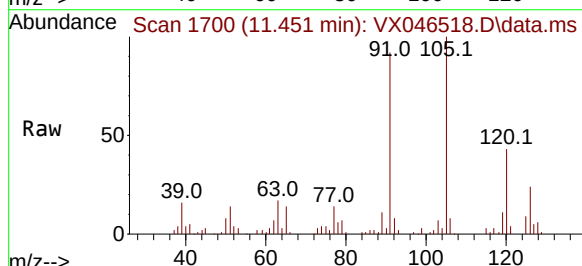
Acq: 06 Jun 2025 09:42

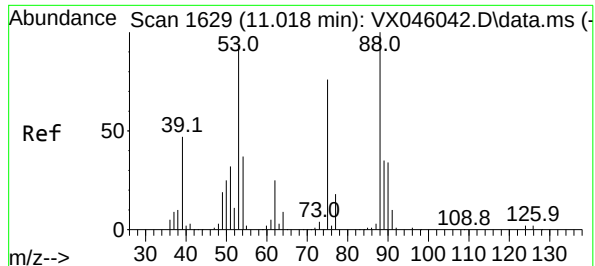
Tgt Ion:105 Resp: 27140

Ion Ratio Lower Upper

105 100

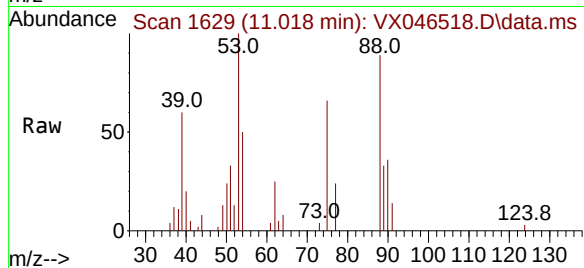
120 45.6 23.1 69.2





#81
trans-1,4-Dichloro-2-butene
Concen: 3.736 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

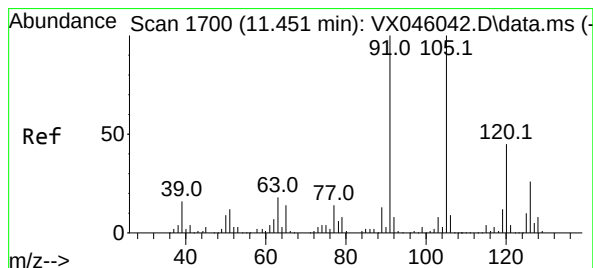
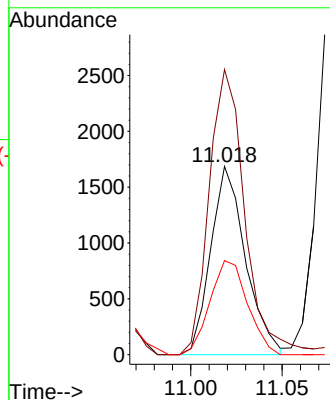
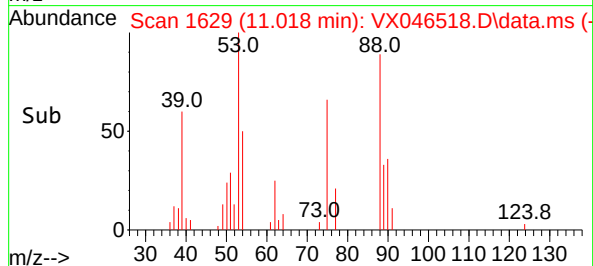
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



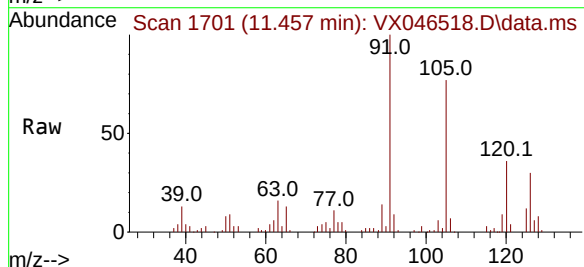
Tgt Ion: 75 Resp: 2230
Ion Ratio Lower Upper
75 100
53 156.8 100.5 150.7
89 53.9 37.0 55.6

Manual Integrations
APPROVED

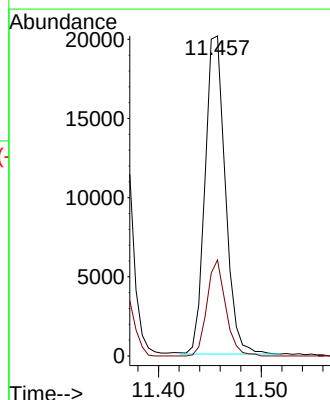
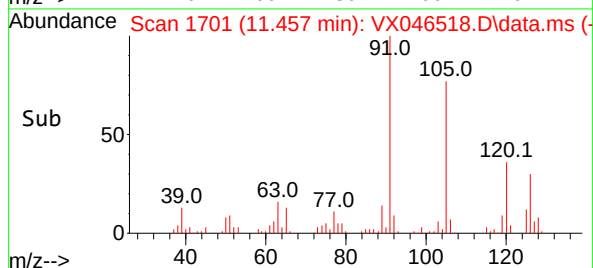
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

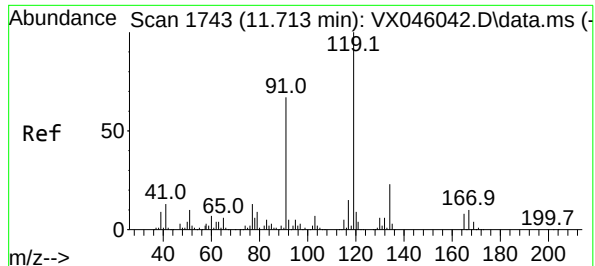


#82
4-Chlorotoluene
Concen: 4.985 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42



Tgt Ion: 91 Resp: 27633
Ion Ratio Lower Upper
91 100
126 27.8 13.3 39.8





#83

tert-Butylbenzene

Concen: 5.011 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:119 Resp: 27238

Ion Ratio Lower Upper

119 100

91 66.2 32.9 98.7

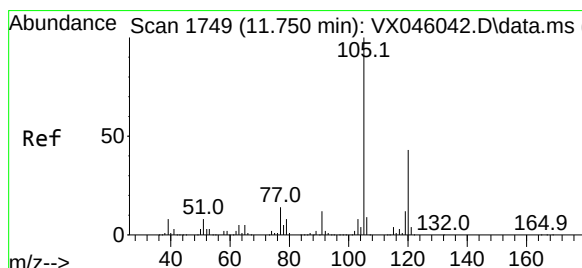
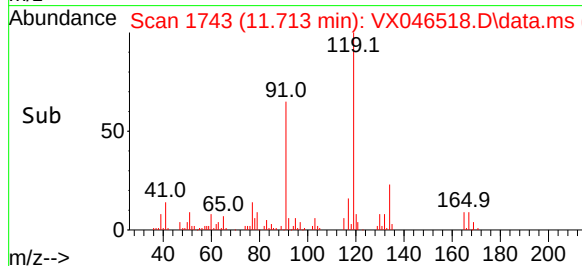
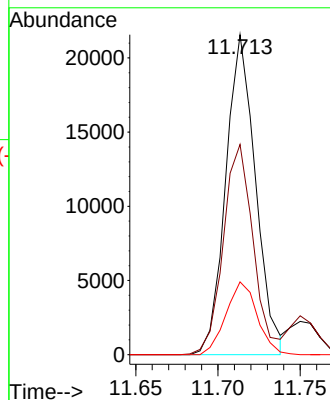
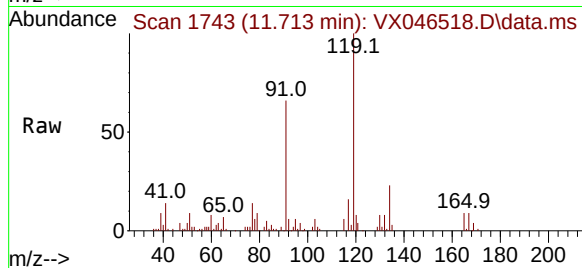
134 23.8 11.4 34.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#84

1,2,4-Trimethylbenzene

Concen: 4.993 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX046518.D

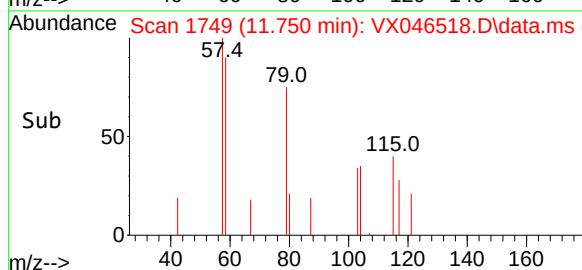
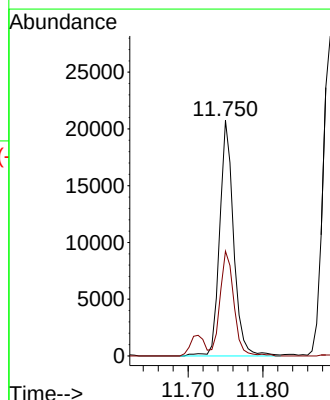
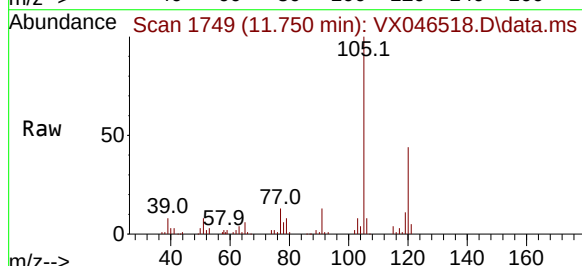
Acq: 06 Jun 2025 09:42

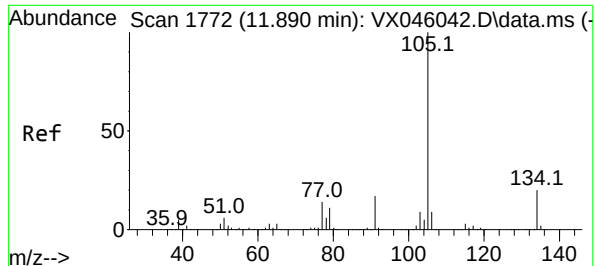
Tgt Ion:105 Resp: 26973

Ion Ratio Lower Upper

105 100

120 44.5 21.2 63.6





#85

sec-Butylbenzene

Concen: 5.077 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 3545

Ion Ratio Lower Upper

105 100

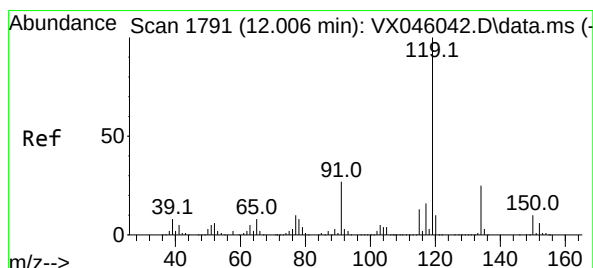
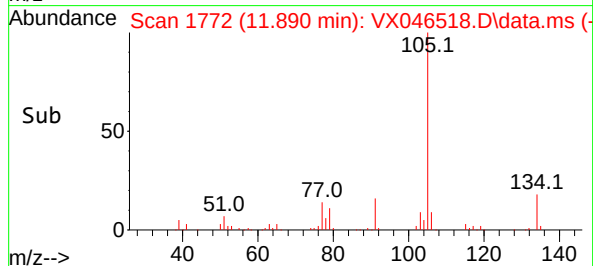
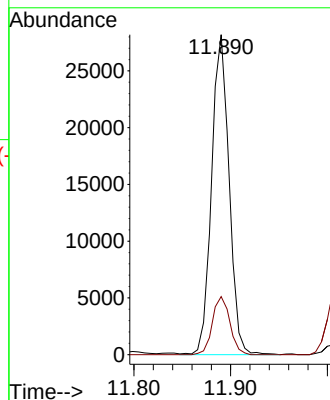
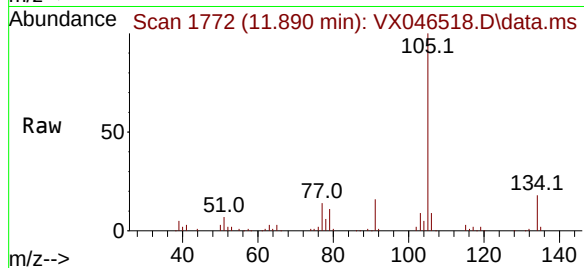
134 18.1 9.7 29.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#86

p-Isopropyltoluene

Concen: 4.913 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

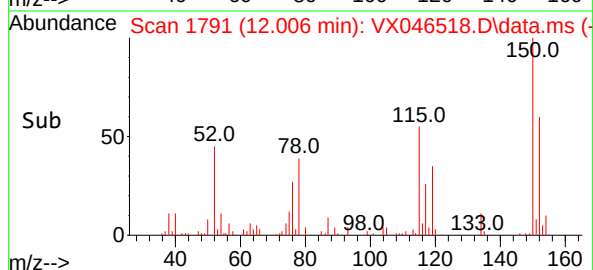
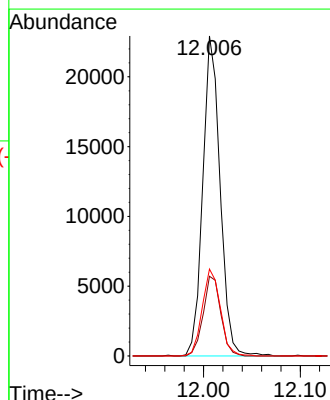
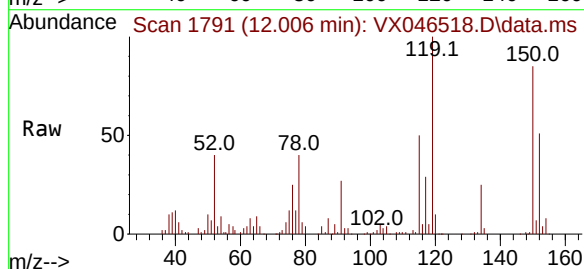
Tgt Ion:119 Resp: 28606

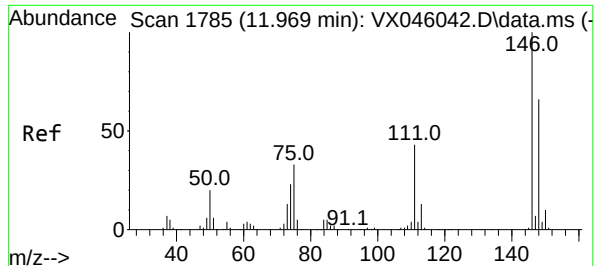
Ion Ratio Lower Upper

119 100

134 25.3 12.5 37.5

91 28.3 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 4.924 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:146 Resp: 1422

Ion Ratio Lower Upper

146 100

111 44.8 22.1 66.3

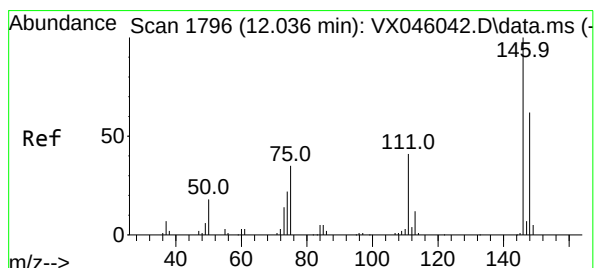
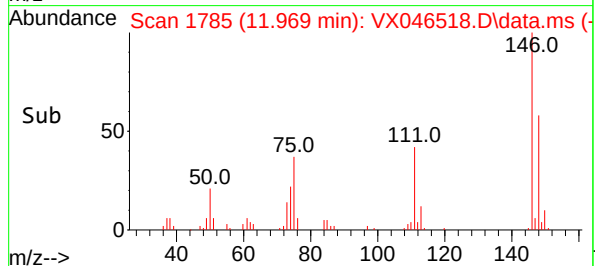
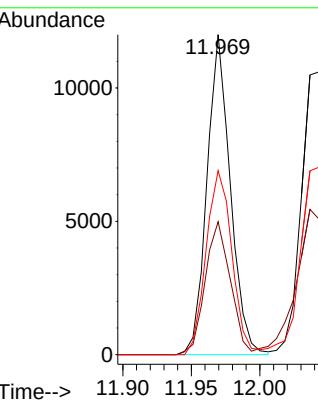
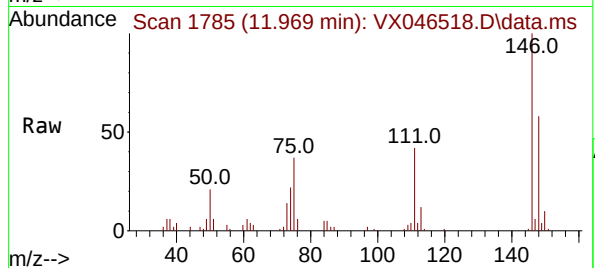
148 63.7 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 4.913 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

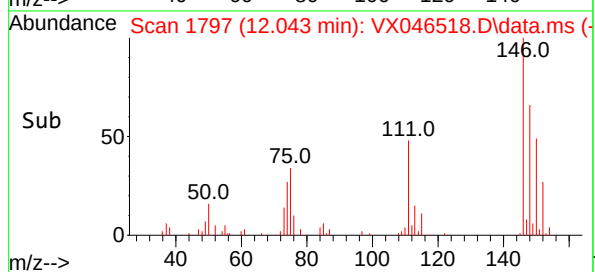
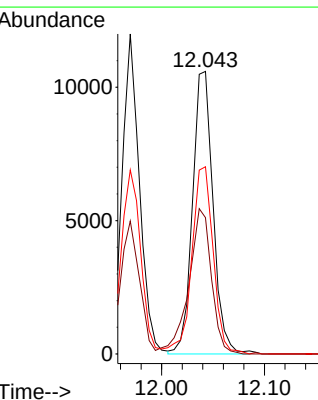
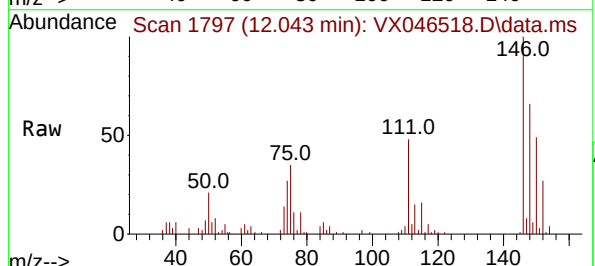
Tgt Ion:146 Resp: 14704

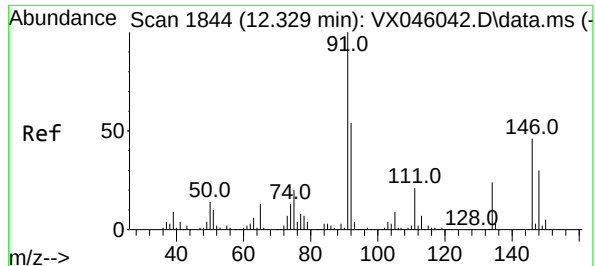
Ion Ratio Lower Upper

146 100

111 57.0 21.3 63.9

148 69.1 31.9 95.5





#89

n-Butylbenzene

Concen: 4.731 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

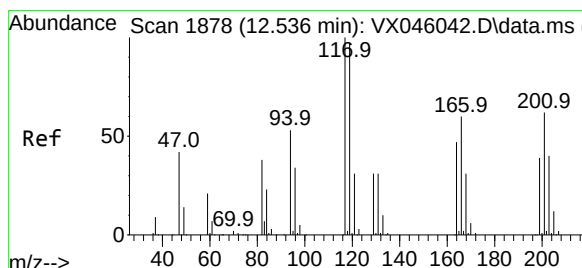
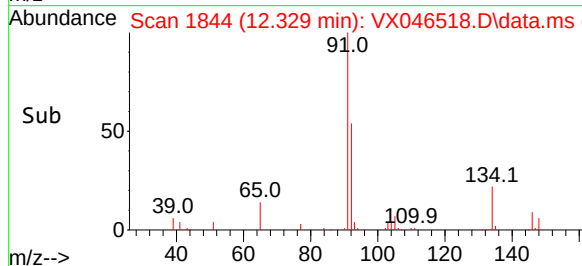
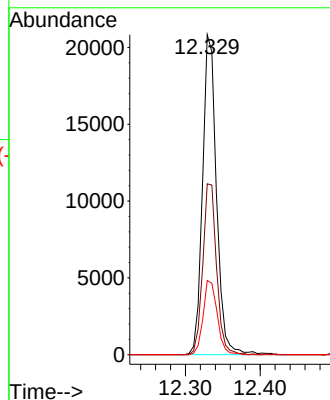
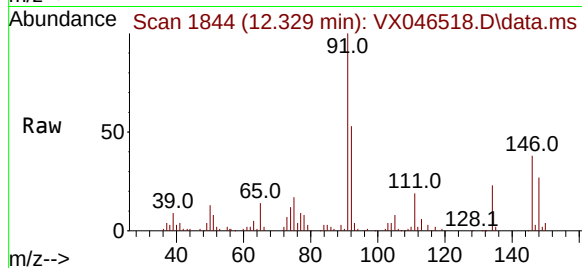
VSTDIC005

Tgt Ion:	91	Resp:	2705
Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.9	80.7
134	23.3	11.8	35.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 4.719 ug/l

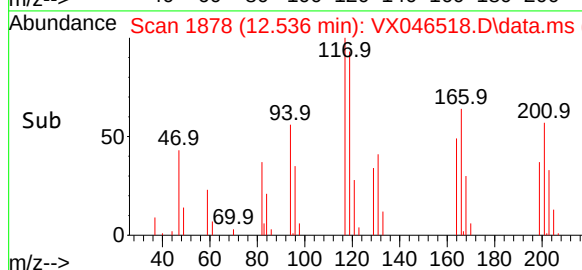
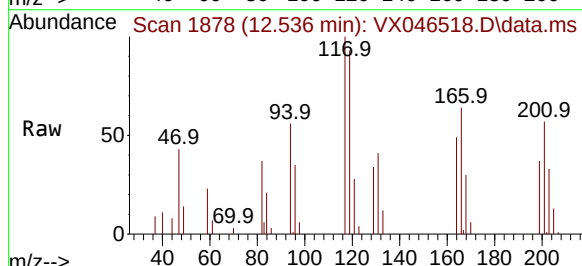
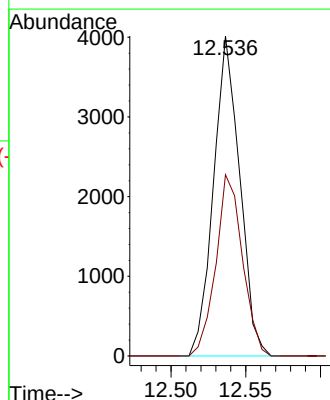
RT: 12.536 min Scan# 1878

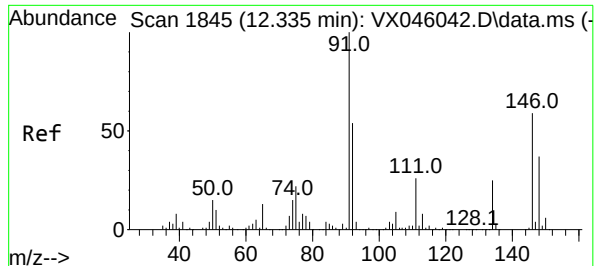
Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

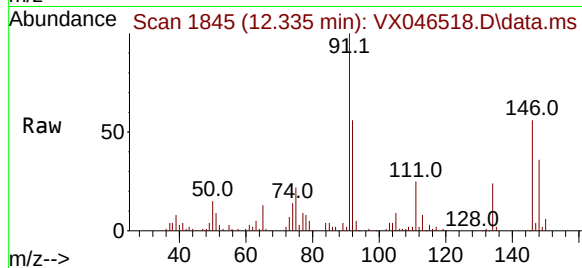
Tgt Ion:	117	Resp:	4884
Ion	Ratio	Lower	Upper
117	100		
201	57.6	31.6	94.7





#91
1,2-Dichlorobenzene
Concen: 5.058 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

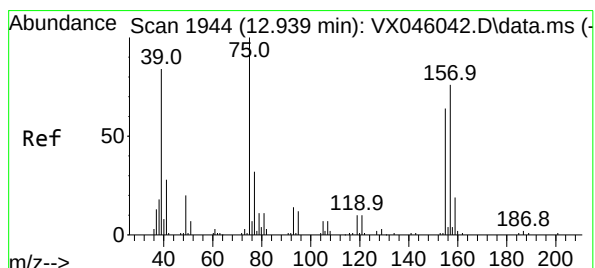
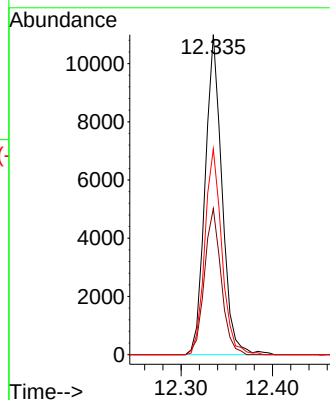
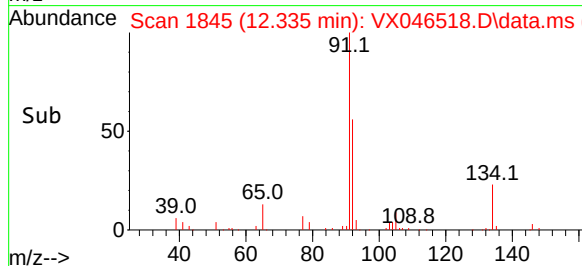
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:146 Resp: 14100
Ion Ratio Lower Upper
146 100
111 45.4 22.4 67.3
148 64.8 31.6 94.8

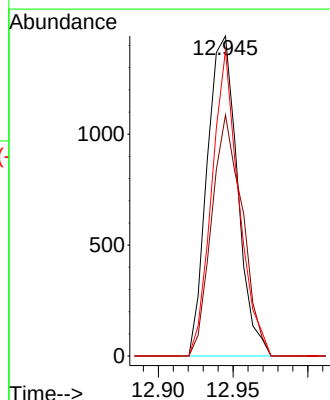
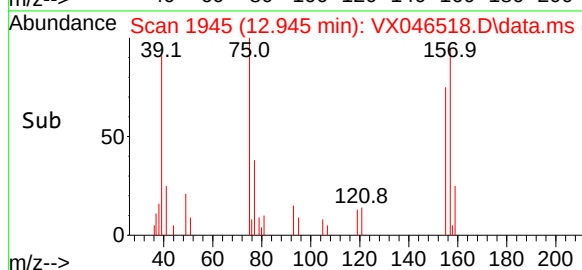
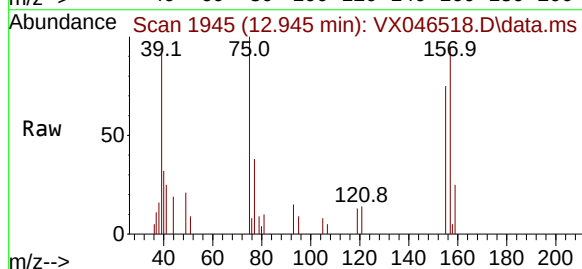
Manual Integrations
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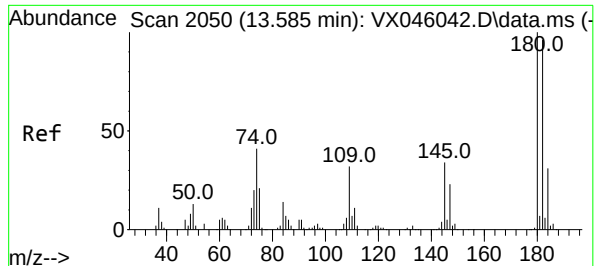
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 4.431 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

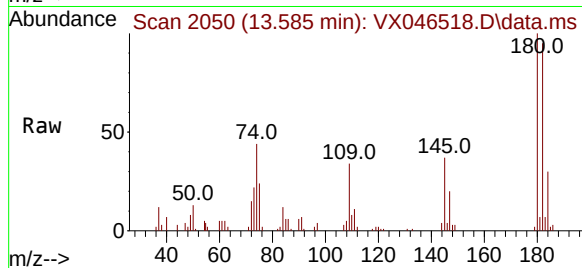
Tgt Ion: 75 Resp: 2035
Ion Ratio Lower Upper
75 100
155 76.3 34.9 104.8
157 85.5 43.8 131.4





#93
1,2,4-Trichlorobenzene
Concen: 4.447 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

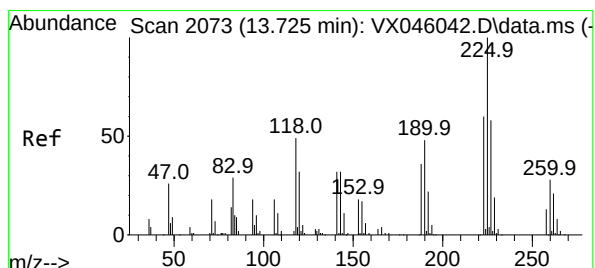
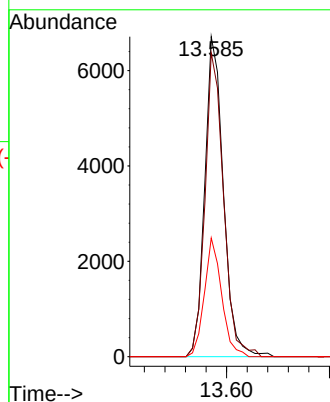
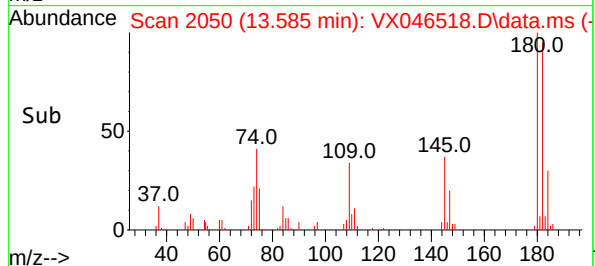
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



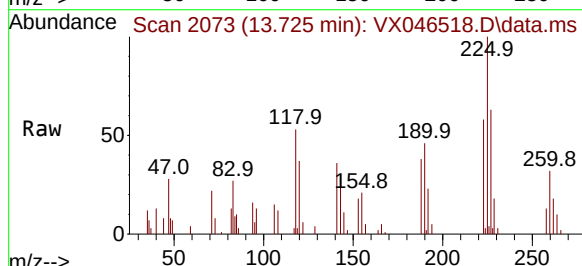
Tgt Ion:180 Resp: 845
Ion Ratio Lower Upper
180 100
182 94.5 47.9 143.8
145 34.5 17.1 51.2

Manual Integrations
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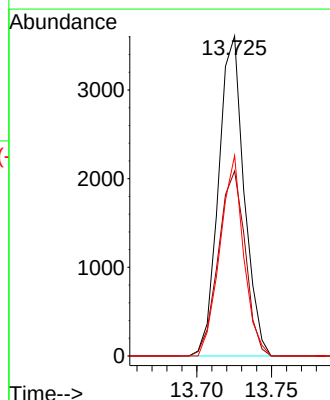
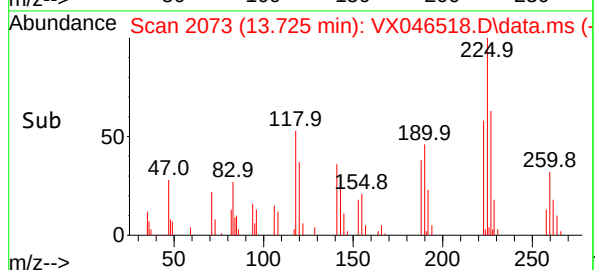
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

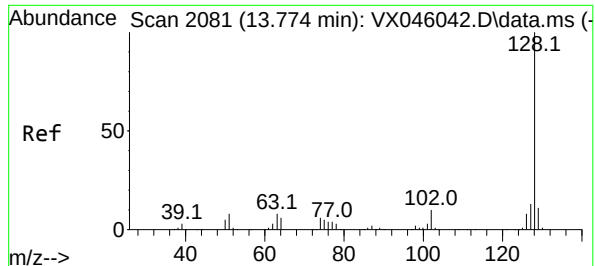


#94
Hexachlorobutadiene
Concen: 4.848 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42



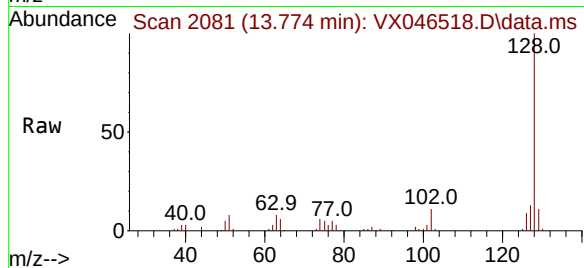
Tgt Ion:225 Resp: 4285
Ion Ratio Lower Upper
225 100
223 60.7 30.8 92.4
227 58.1 30.9 92.7





#95
Naphthalene
Concen: 4.242 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

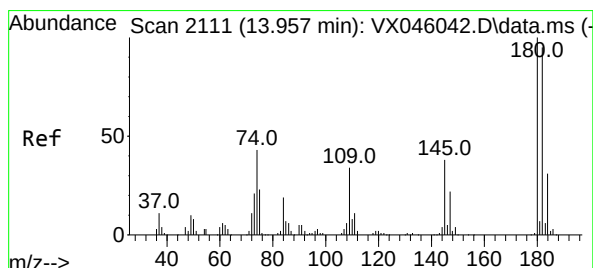
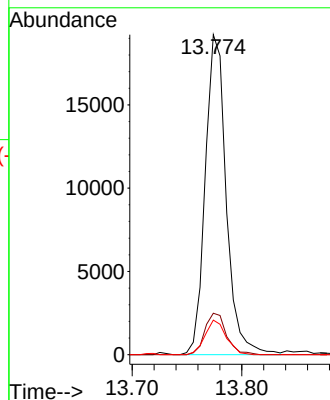
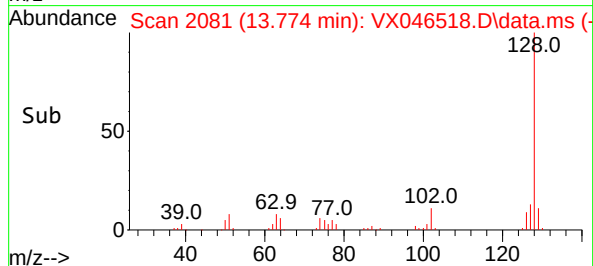
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



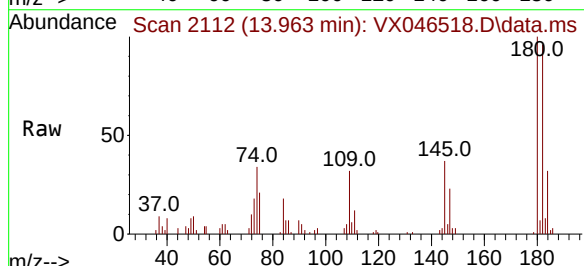
Tgt Ion:128 Resp: 2558
Ion Ratio Lower Upper
128 100
127 13.3 10.4 15.6
129 10.9 8.6 13.0

Manual Integrations
APPROVED

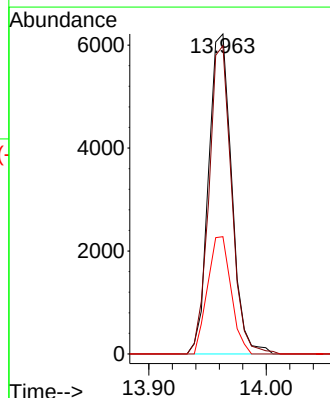
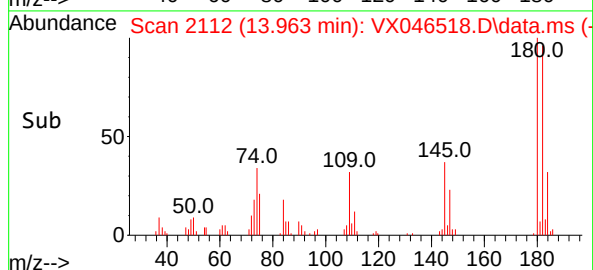
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.453 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42



Tgt Ion:180 Resp: 8491
Ion Ratio Lower Upper
180 100
182 94.5 47.8 143.3
145 37.2 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046519.D
 Acq On : 06 Jun 2025 10:18
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Quant Time: Jun 06 16:41:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	91899	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	155168	50.000	ug/l	-0.01
63) Chlorobenzene-d5	10.055	117	138173	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	69785	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	31177	19.069	ug/l	-0.01
Spiked Amount 50.000	Range 74 - 125		Recovery =	38.140%#		
35) Dibromofluoromethane	5.391	113	21913	19.203	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery =	38.400%#		
50) Toluene-d8	8.647	98	71915	19.116	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	38.240%#		
62) 4-Bromofluorobenzene	11.079	95	29923	19.224	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	38.440%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.185	85	24011	18.820	ug/l	97
3) Chloromethane	1.307	50	21532	18.541	ug/l	97
4) Vinyl Chloride	1.386	62	21814	18.843	ug/l	99
5) Bromomethane	1.624	94	15765	22.432	ug/l	98
6) Chloroethane	1.703	64	14119	18.798	ug/l	97
7) Trichlorofluoromethane	1.904	101	38797	20.256	ug/l	95
8) Diethyl Ether	2.148	74	13057	19.294	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.343	101	23928	19.829	ug/l	98
10) Methyl Iodide	2.465	142	24399	18.652	ug/l	98
11) Tert butyl alcohol	2.965	59	16570	91.334	ug/l	98
12) 1,1-Dichloroethene	2.337	96	20232	18.543	ug/l	94
13) Acrolein	2.245	56	20307	111.446	ug/l	98
14) Allyl chloride	2.678	41	40999	19.133	ug/l	96
15) Acrylonitrile	3.075	53	67593	98.540	ug/l	99
16) Acetone	2.386	43	61298	98.314	ug/l	97
17) Carbon Disulfide	2.526	76	45190	19.630	ug/l	100
18) Methyl Acetate	2.715	43	39765	20.419	ug/l	100
19) Methyl tert-butyl Ether	3.123	73	75365	19.741	ug/l	99
20) Methylene Chloride	2.800	84	24863	18.955	ug/l	96
21) trans-1,2-Dichloroethene	3.105	96	21333	18.476	ug/l	93
22) Diisopropyl ether	3.770	45	86178	20.399	ug/l #	77
23) Vinyl Acetate	3.733	43	309124	94.776	ug/l	100
24) 1,1-Dichloroethane	3.623	63	46528	19.761	ug/l	99
25) 2-Butanone	4.562	43	86287	94.804	ug/l	99
26) 2,2-Dichloropropane	4.489	77	33782	19.327	ug/l	97
27) cis-1,2-Dichloroethene	4.501	96	27631	19.439	ug/l	97
28) Bromochloromethane	4.910	49	21754	19.371	ug/l	99
29) Tetrahydrofuran	5.013	42	53547	93.158	ug/l	100
30) Chloroform	5.105	83	49854	20.208	ug/l	92
31) Cyclohexane	5.483	56	37188	19.565	ug/l	90
32) 1,1,1-Trichloroethane	5.391	97	41583	19.705	ug/l	98
36) 1,1-Dichloropropene	5.702	75	31397	19.262	ug/l	99
37) Ethyl Acetate	4.733	43	32379	20.357	ug/l	98
38) Carbon Tetrachloride	5.684	117	35956	19.695	ug/l	98
39) Methylcyclohexane	7.379	83	35729	18.571	ug/l	96
40) Benzene	6.044	78	93317	20.336	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046519.D
 Acq On : 06 Jun 2025 10:18
 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 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:41:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	20773	21.027	ug/l	96
42) 1,2-Dichloroethane	6.098	62	39768	20.832	ug/l	100
43) Isopropyl Acetate	6.342	43	55054	19.851	ug/l	99
44) Trichloroethene	7.129	130	22094	18.950	ug/l	97
45) 1,2-Dichloropropane	7.434	63	24588	20.760	ug/l	98
46) Dibromomethane	7.586	93	17753	19.924	ug/l	97
47) Bromodichloromethane	7.824	83	38325	20.919	ug/l	100
48) Methyl methacrylate	7.696	41	28189	19.755	ug/l	98
49) 1,4-Dioxane	7.665	88	8127	425.896	ug/l	99
51) 4-Methyl-2-Pentanone	8.574	43	180974	102.687	ug/l	99
52) Toluene	8.720	92	56537	20.055	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	32552	19.817	ug/l	99
54) cis-1,3-Dichloropropene	8.372	75	36009	19.716	ug/l	89
55) 1,1,2-Trichloroethane	9.153	97	24130	21.322	ug/l	98
56) Ethyl methacrylate	9.116	69	35137	20.176	ug/l	97
57) 1,3-Dichloropropane	9.305	76	41306	20.653	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.244	63	93580	98.650	ug/l	99
59) 2-Hexanone	9.427	43	128964	102.032	ug/l	99
60) Dibromochloromethane	9.519	129	27175	20.414	ug/l	99
61) 1,2-Dibromoethane	9.610	107	23582	19.996	ug/l	99
64) Tetrachloroethene	9.275	164	17890	19.362	ug/l	94
65) Chlorobenzene	10.079	112	63695	19.600	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.165	131	22188	20.205	ug/l	99
67) Ethyl Benzene	10.195	91	112127	19.765	ug/l	98
68) m/p-Xylenes	10.299	106	82876	40.272	ug/l	97
69) o-Xylene	10.640	106	40415	20.304	ug/l	99
70) Styrene	10.653	104	69469	20.388	ug/l	100
71) Bromoform	10.799	173	16593	19.817	ug/l #	97
73) Isopropylbenzene	10.963	105	110221	20.092	ug/l	100
74) N-amyl acetate	10.842	43	46707	19.334	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	36116	20.568	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	30039m	19.991	ug/l	
77) Bromobenzene	11.195	156	25827	20.283	ug/l	96
78) n-propylbenzene	11.305	91	133297	20.075	ug/l	100
79) 2-Chlorotoluene	11.360	91	80101	20.005	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	92024	20.131	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	9832	19.187	ug/l	99
82) 4-Chlorotoluene	11.451	91	93283	19.655	ug/l	98
83) tert-Butylbenzene	11.713	119	93897	20.178	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	93782	20.279	ug/l	98
85) sec-Butylbenzene	11.890	105	119909	20.054	ug/l	99
86) p-Isopropyltoluene	12.006	119	99196	19.900	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	47842	19.349	ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	48453	18.912	ug/l	99
89) n-Butylbenzene	12.329	91	94297	19.263	ug/l	99
90) Hexachloroethane	12.536	117	16809	18.972	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	47259	19.801	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7586	19.293	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	30280	18.598	ug/l	98
94) Hexachlorobutadiene	13.725	225	14184	18.746	ug/l	97
95) Naphthalene	13.774	128	98466	19.071	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	30099	18.437	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046519.D
Acq On : 06 Jun 2025 10:18
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 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:41:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:38:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

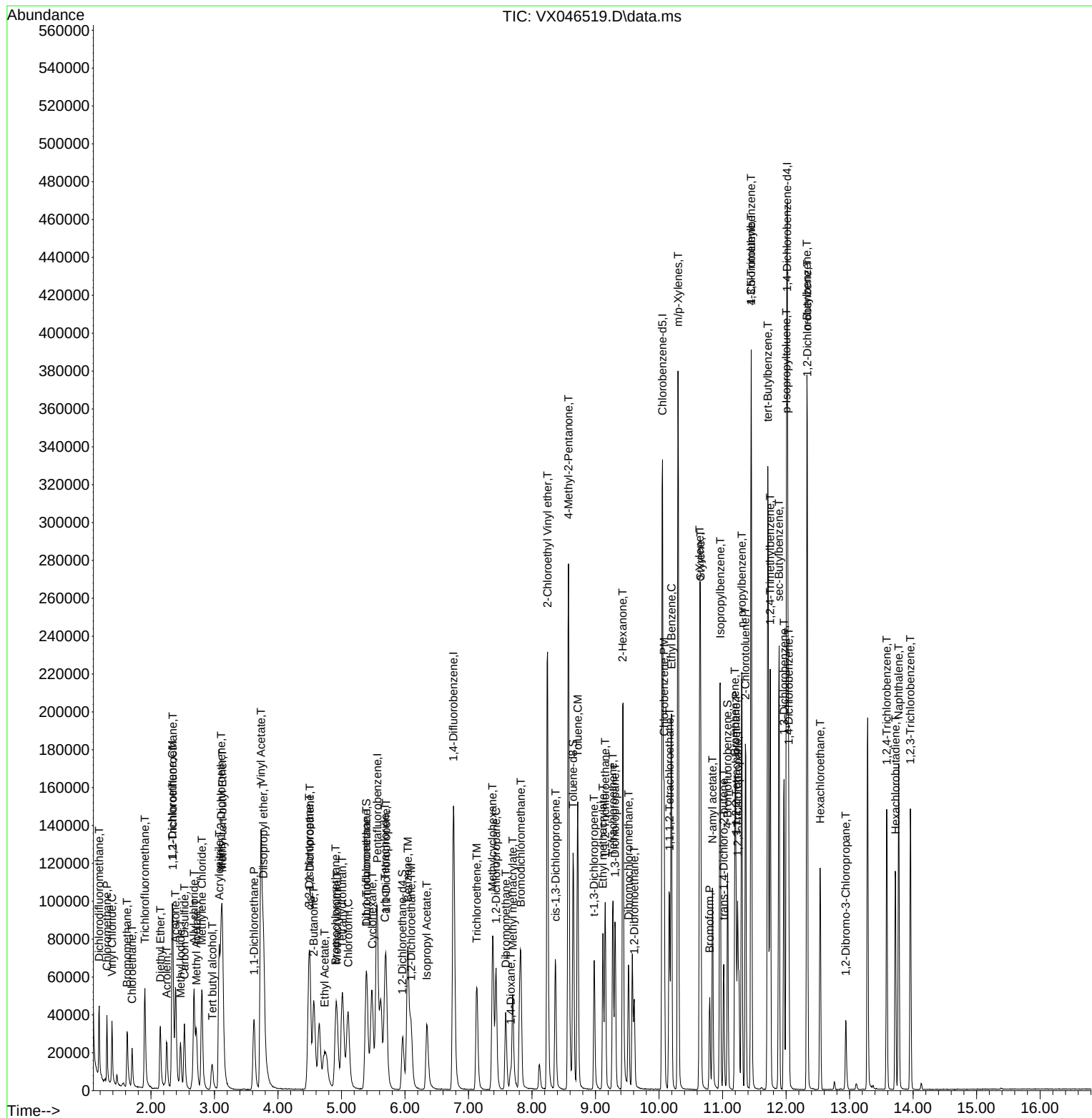
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046519.D
Acq On : 06 Jun 2025 10:18
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

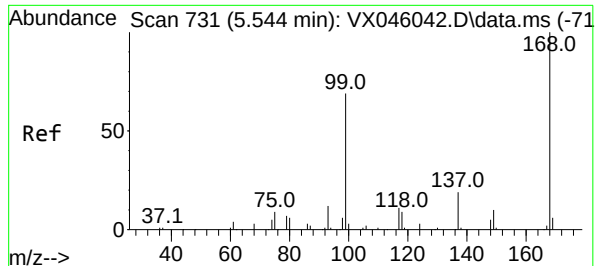
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:41:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:38:39 2025
Response via : Initial Calibration





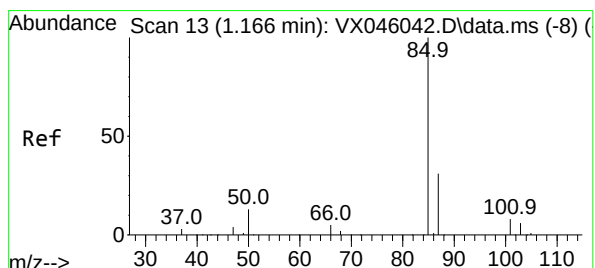
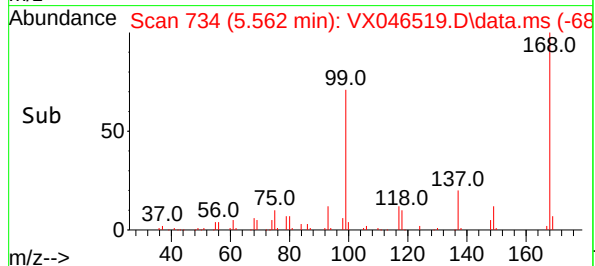
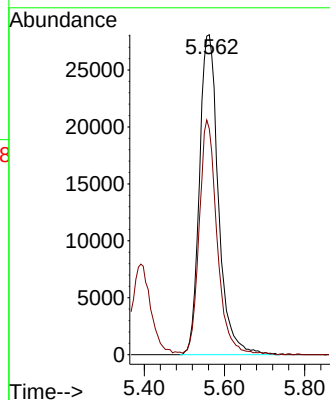
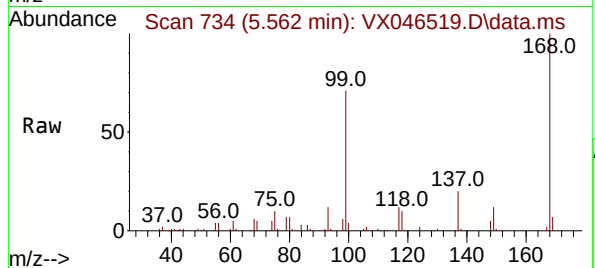
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 91899
Ion Ratio Lower Upper
168 100
99 70.3 54.9 82.3

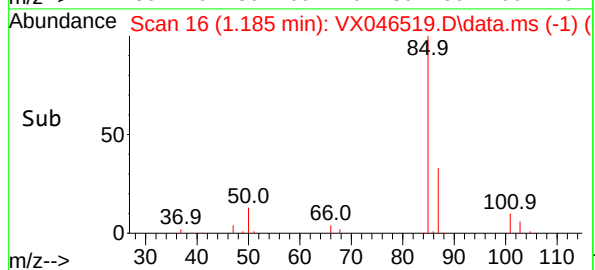
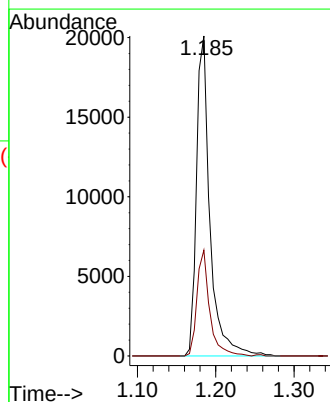
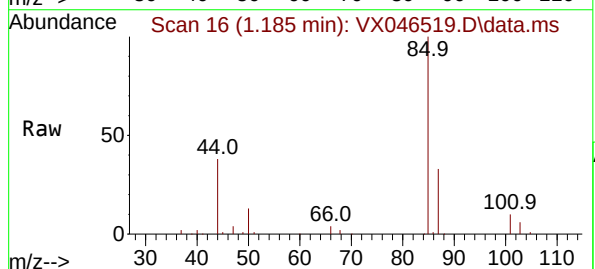
Manual Integrations
APPROVED

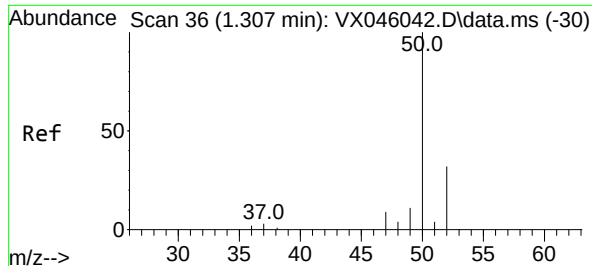
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 18.820 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion: 85 Resp: 24011
Ion Ratio Lower Upper
85 100
87 33.1 15.7 47.1





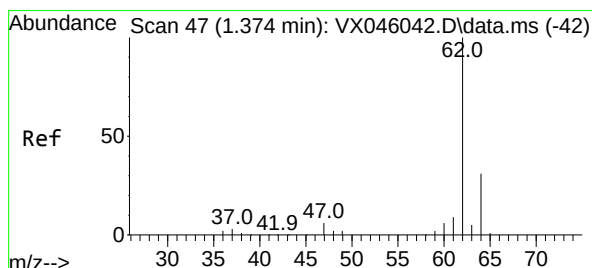
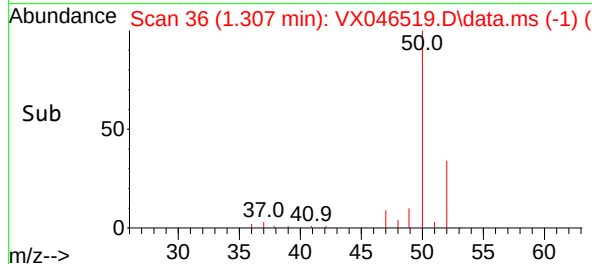
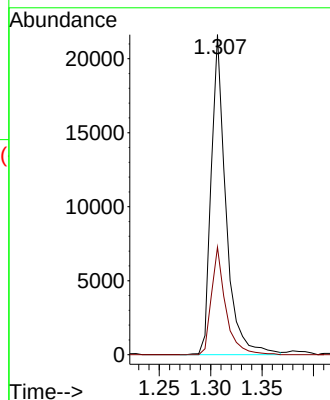
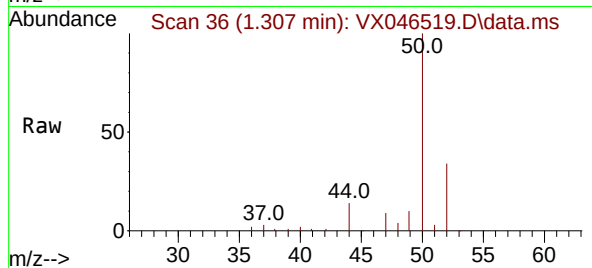
#3
Chloromethane
Concen: 18.541 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 2153
Ion Ratio Lower Upper
50 100
52 33.6 25.4 38.2

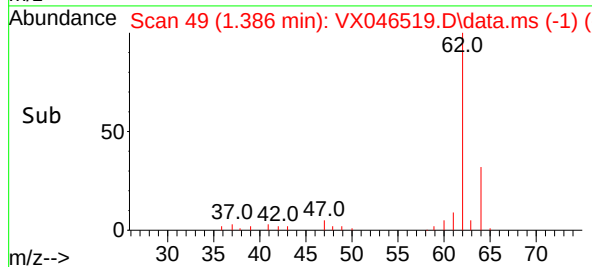
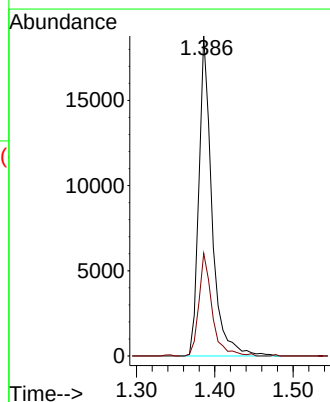
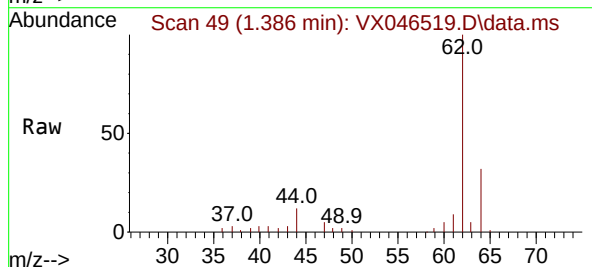
Manual Integrations
APPROVED

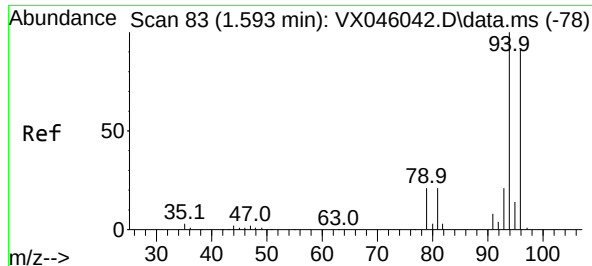
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 18.843 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion: 62 Resp: 21814
Ion Ratio Lower Upper
62 100
64 32.1 25.2 37.8





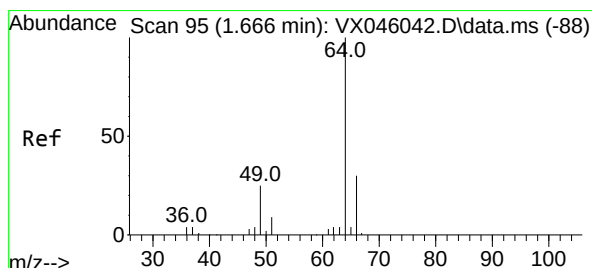
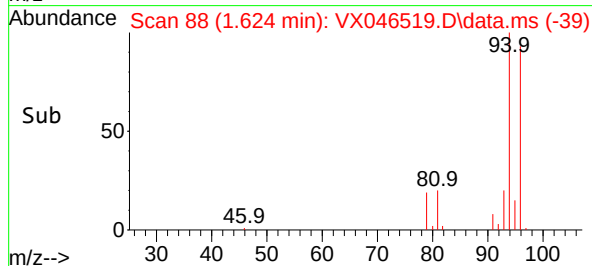
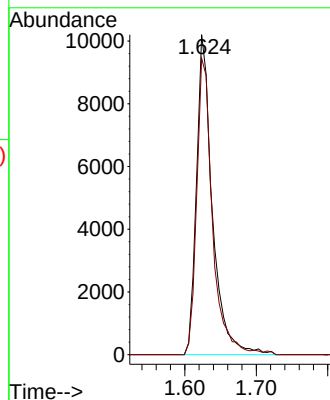
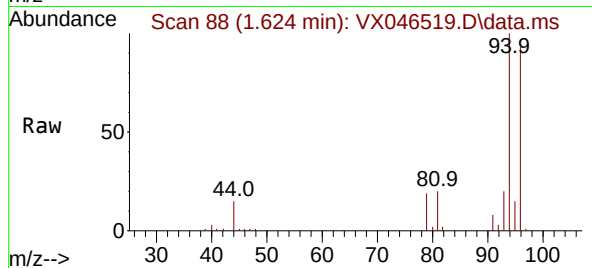
#5
Bromomethane
Concen: 22.432 ug/l
RT: 1.624 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 1576
Ion Ratio Lower Upper
94 100
96 92.6 72.8 109.2

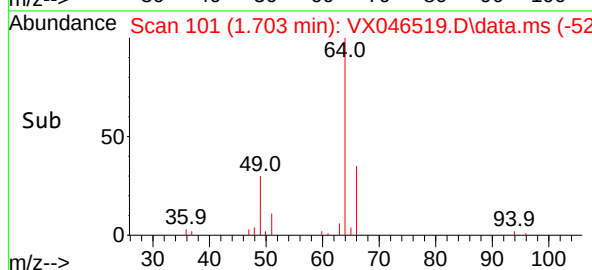
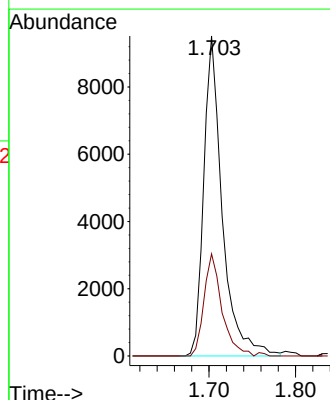
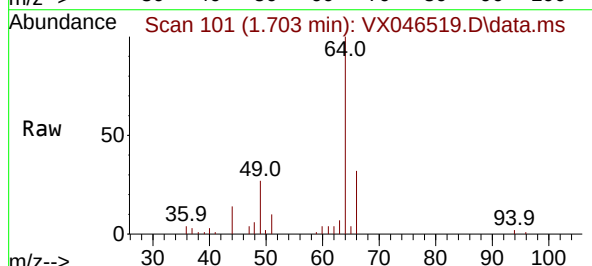
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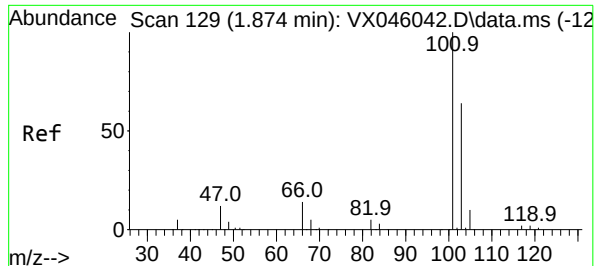
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#6
Chloroethane
Concen: 18.798 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion: 64 Resp: 14119
Ion Ratio Lower Upper
64 100
66 31.9 24.3 36.5





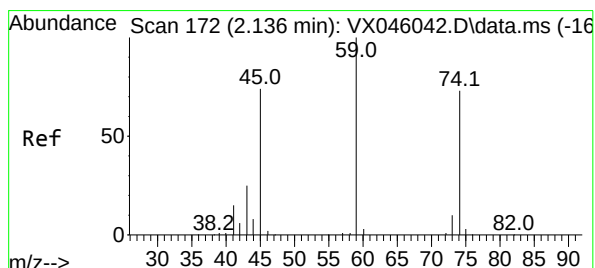
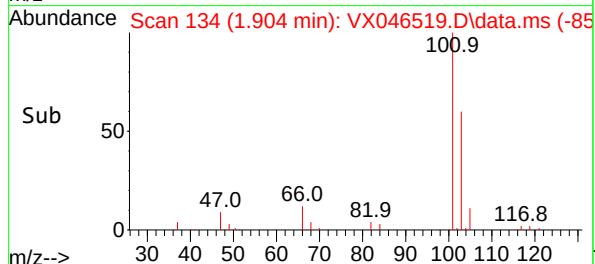
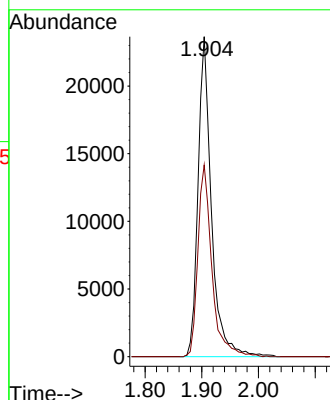
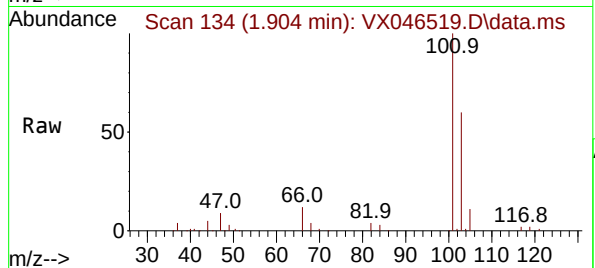
#7
Trichlorofluoromethane
Concen: 20.256 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 3879
Ion Ratio Lower Upper
101 100
103 59.9 51.0 76.4

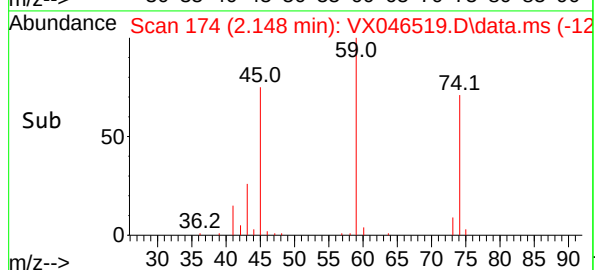
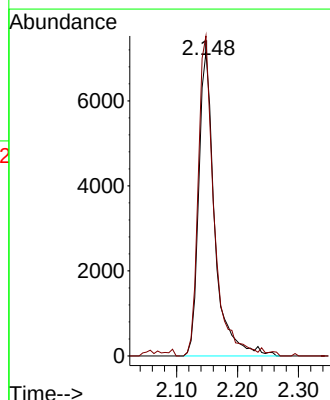
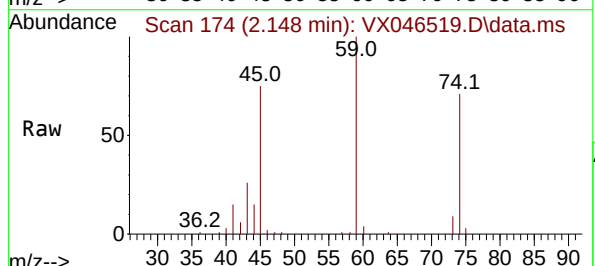
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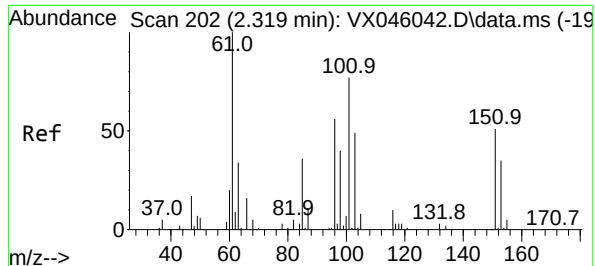
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#8
Diethyl Ether
Concen: 19.294 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion: 74 Resp: 13057
Ion Ratio Lower Upper
74 100
45 104.0 54.9 164.8





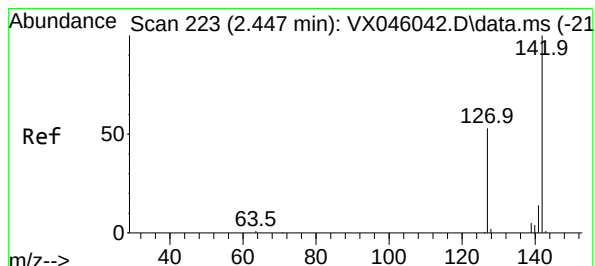
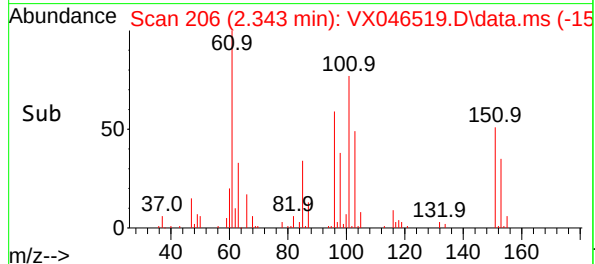
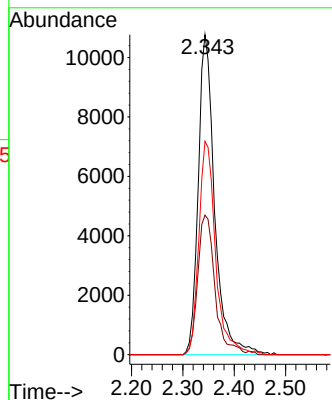
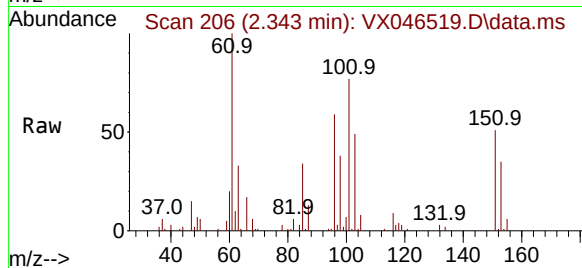
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.829 ug/l
RT: 2.343 min Scan# 206
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 23928
Ion Ratio Lower Upper
101 100
85 45.9 38.6 58.0
151 67.9 55.2 82.8

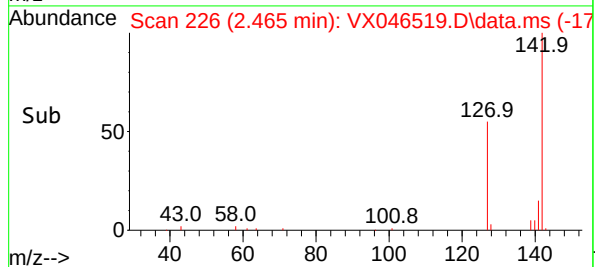
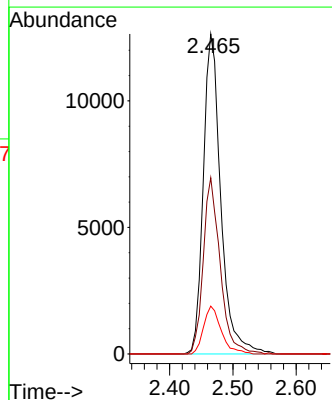
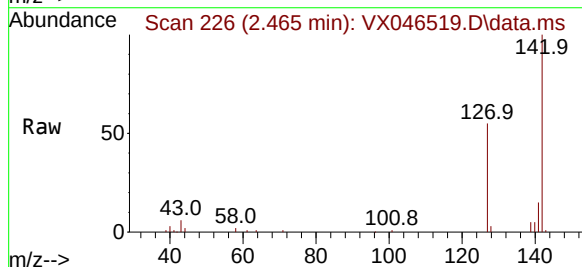
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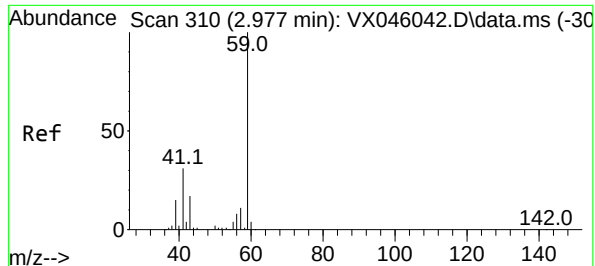
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#10
Methyl Iodide
Concen: 18.652 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion:142 Resp: 24399
Ion Ratio Lower Upper
142 100
127 53.3 41.7 62.5
141 15.1 11.5 17.3





#11

Tert butyl alcohol

Concen: 91.334 ug/l

RT: 2.965 min Scan# 308

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 59 Resp: 16570

Ion Ratio Lower Upper

59 100

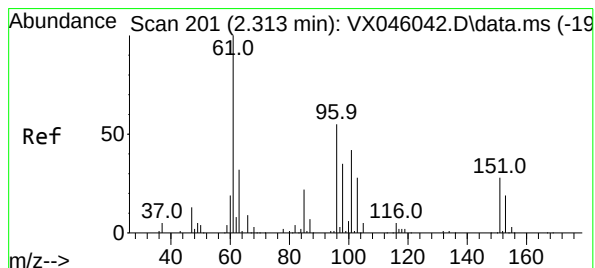
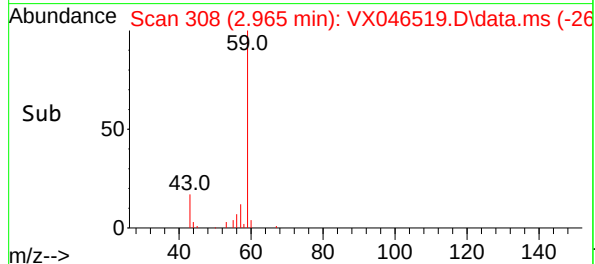
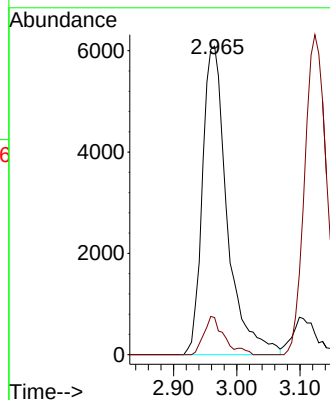
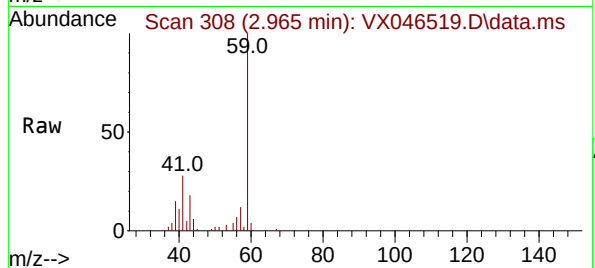
57 10.1 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#12

1,1-Dichloroethene

Concen: 18.543 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

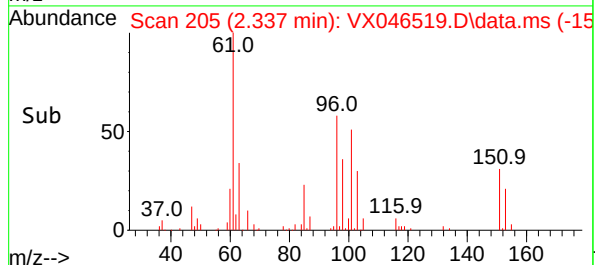
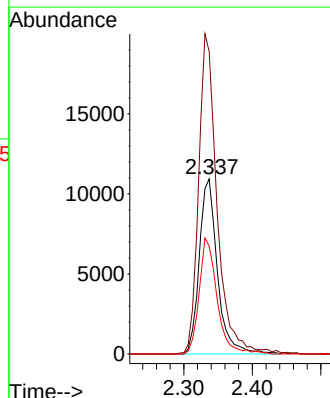
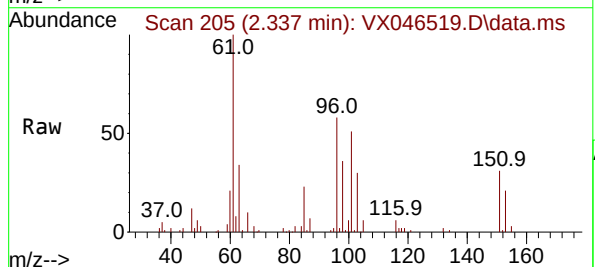
Tgt Ion: 96 Resp: 20232

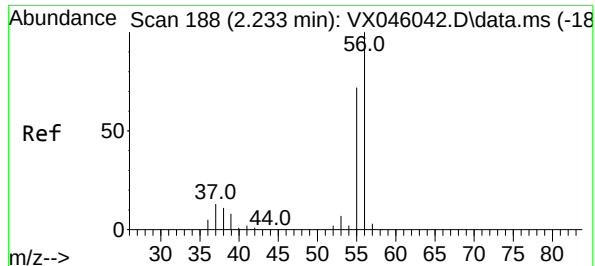
Ion Ratio Lower Upper

96 100

61 172.3 146.2 219.2

98 61.6 51.0 76.6





#13

Acrolein

Concen: 111.446 ug/l

RT: 2.245 min Scan# 190

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 2030

Ion Ratio Lower Upper

56 100

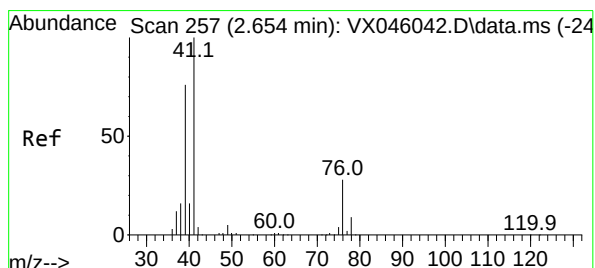
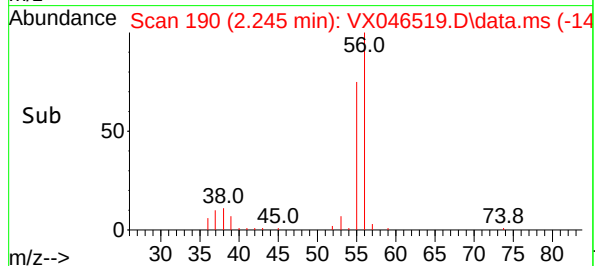
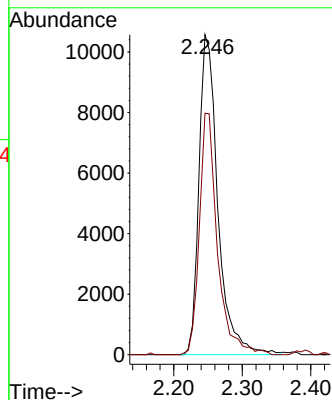
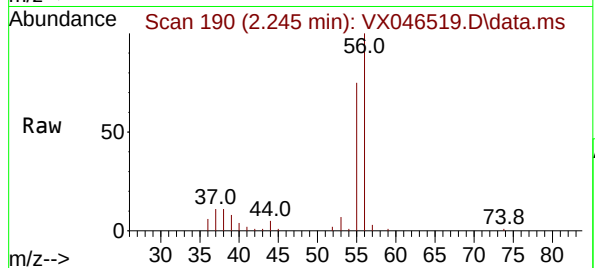
55 72.2 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 19.133 ug/l

RT: 2.678 min Scan# 261

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

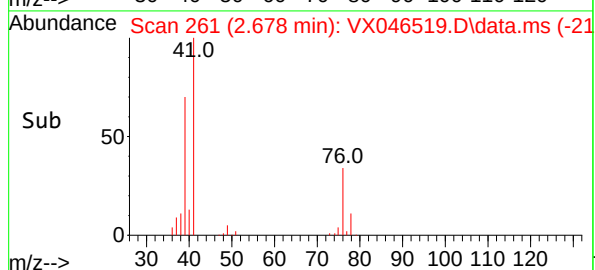
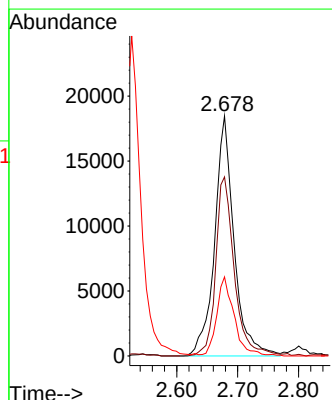
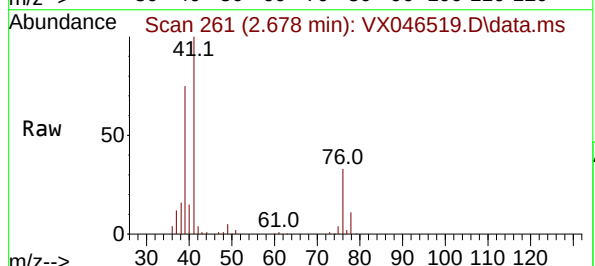
Tgt Ion: 41 Resp: 40999

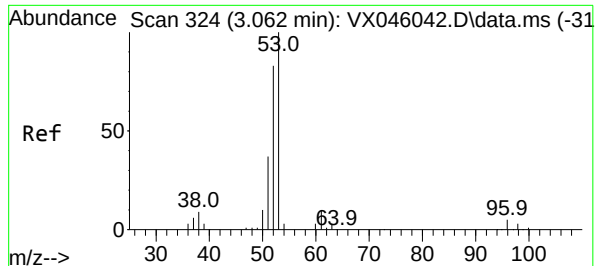
Ion Ratio Lower Upper

41 100

39 71.5 60.6 90.8

76 29.5 24.9 37.3





#15

Acrylonitrile

Concen: 98.540 ug/l

RT: 3.075 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

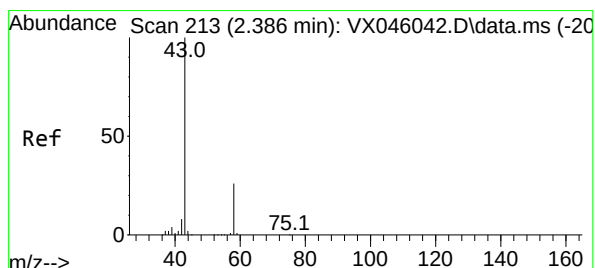
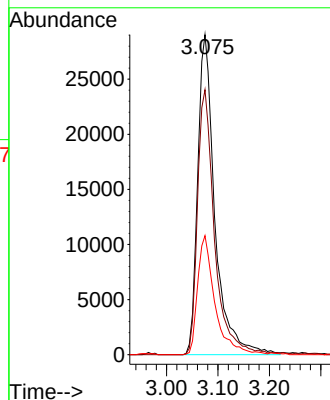
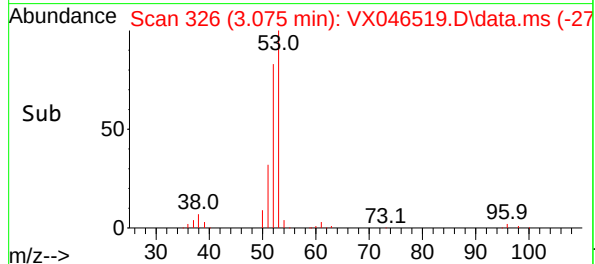
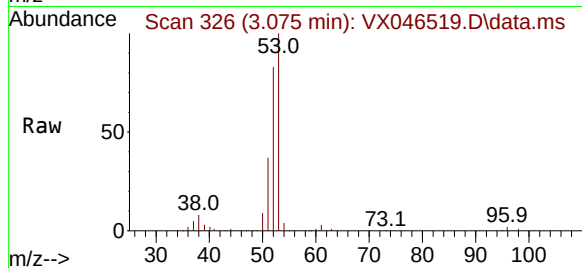
ClientSampleId :

VSTDICC020

Tgt Ion:	53	Resp:	6759
Ion	Ratio	Lower	Upper
53	100		
52	82.5	65.3	97.9
51	37.6	29.8	44.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#16

Acetone

Concen: 98.314 ug/l

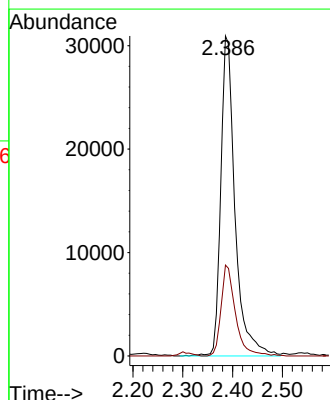
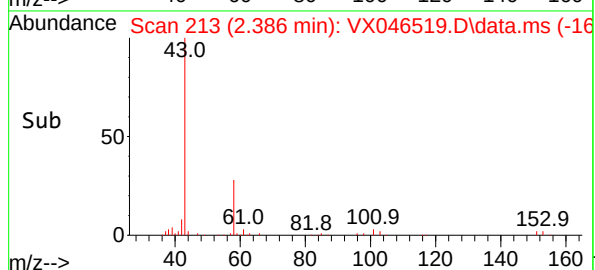
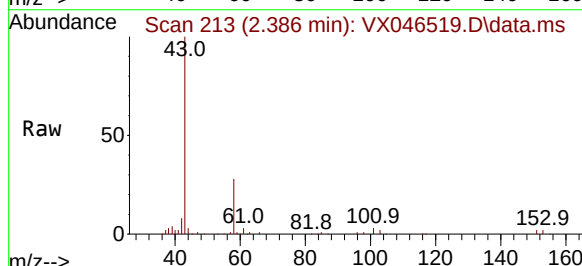
RT: 2.386 min Scan# 213

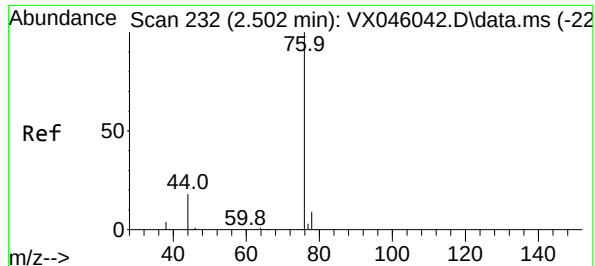
Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Tgt Ion:	43	Resp:	61298
Ion	Ratio	Lower	Upper
43	100		
58	28.2	21.2	31.8





#17

Carbon Disulfide

Concen: 19.630 ug/l

RT: 2.526 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 45190

Ion Ratio Lower Upper

76 100

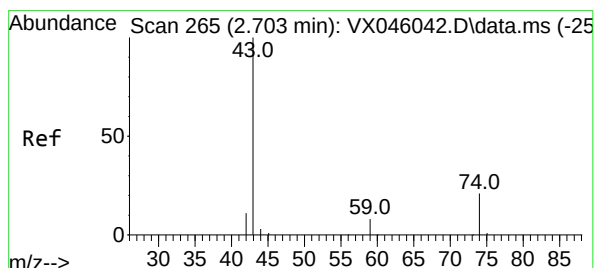
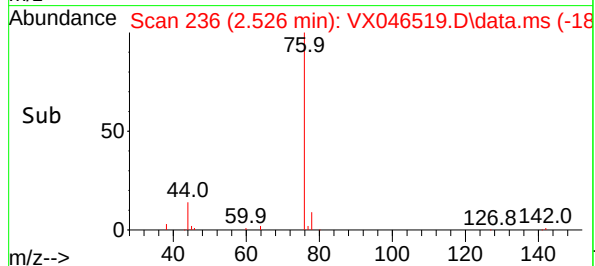
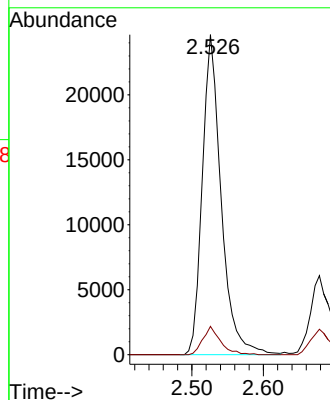
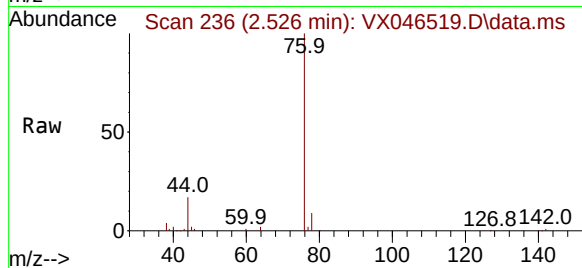
78 8.9 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#18

Methyl Acetate

Concen: 20.419 ug/l

RT: 2.715 min Scan# 267

Delta R.T. -0.006 min

Lab File: VX046519.D

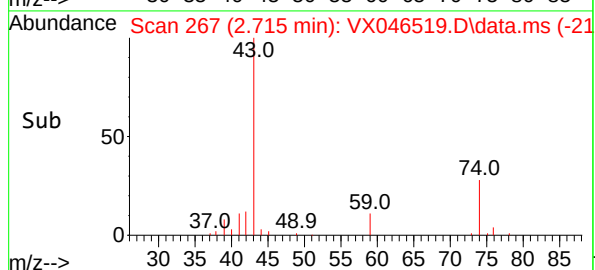
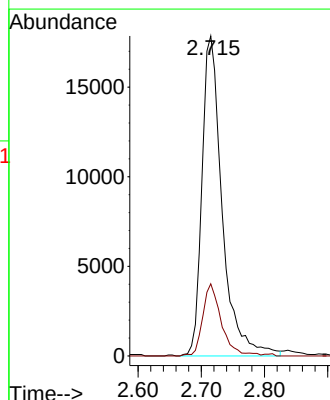
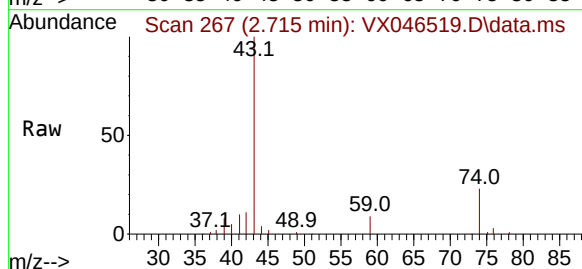
Acq: 06 Jun 2025 10:18

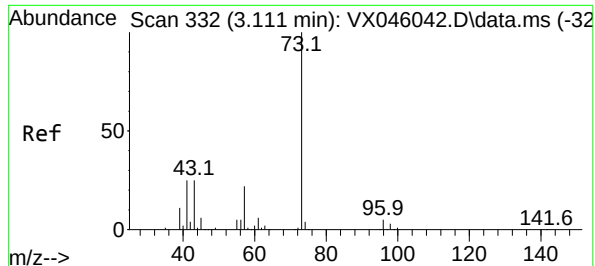
Tgt Ion: 43 Resp: 39765

Ion Ratio Lower Upper

43 100

74 20.8 16.7 25.1





#19

Methyl tert-butyl Ether

Concen: 19.741 ug/l

RT: 3.123 min Scan# 31

Delta R.T. -0.012 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 73 Resp: 7536

Ion Ratio Lower Upper

73 100

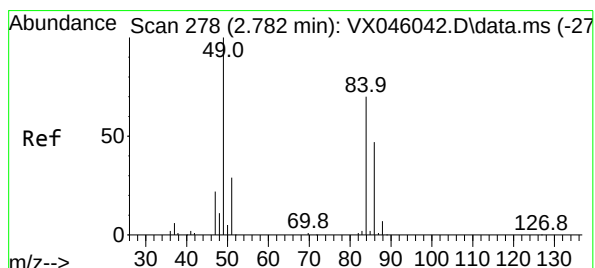
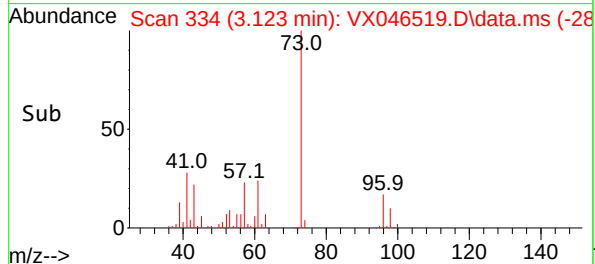
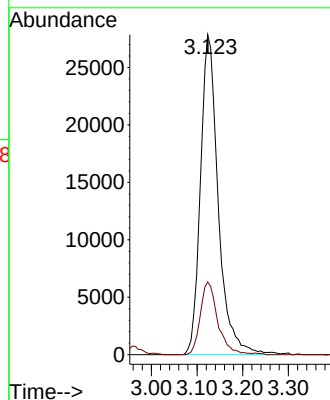
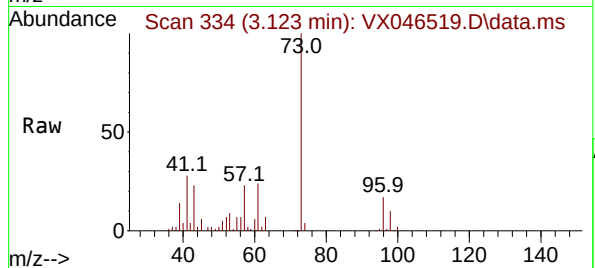
57 22.7 17.7 26.5

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#20

Methylene Chloride

Concen: 18.955 ug/l

RT: 2.800 min Scan# 281

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Tgt Ion: 84 Resp: 24863

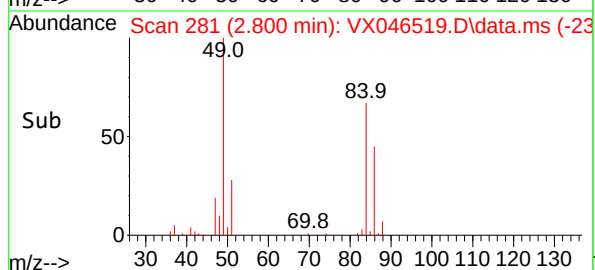
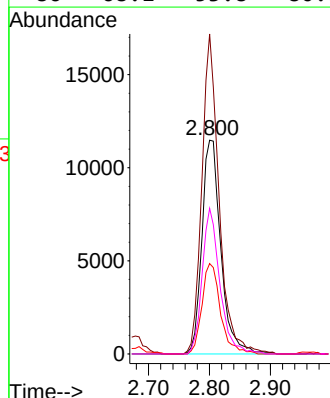
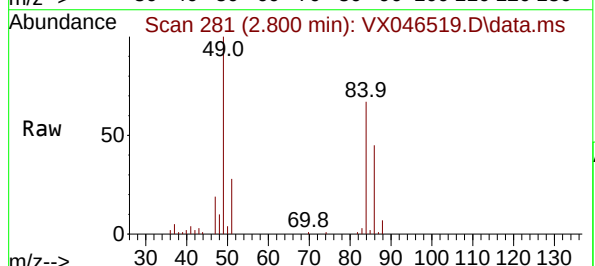
Ion Ratio Lower Upper

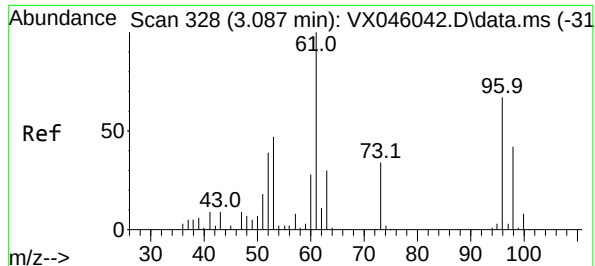
84 100

49 149.7 113.9 170.9

51 42.3 33.5 50.3

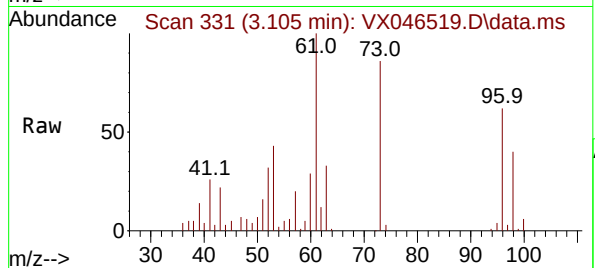
86 68.1 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 18.476 ug/l
RT: 3.105 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

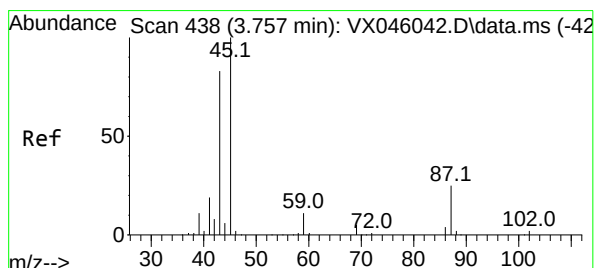
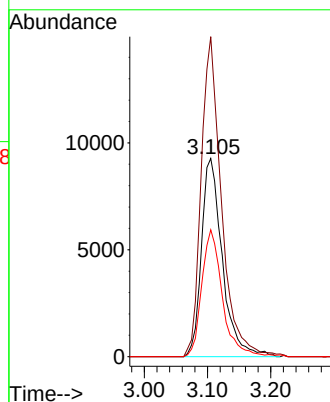
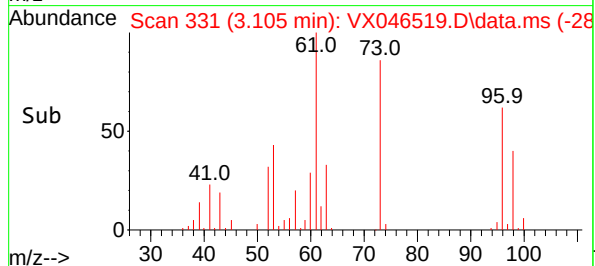
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 96 Resp: 2133
Ion Ratio Lower Upper
96 100
61 161.4 119.5 179.3
98 64.0 50.0 75.0

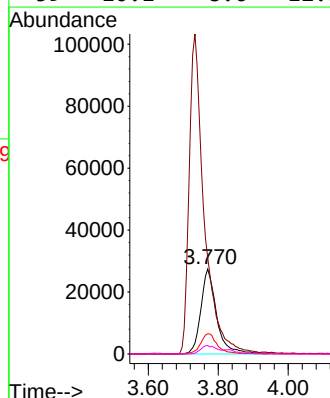
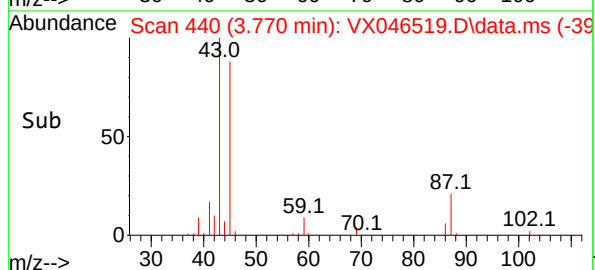
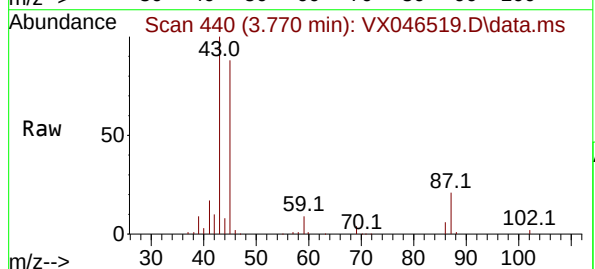
Manual Integrations
APPROVED

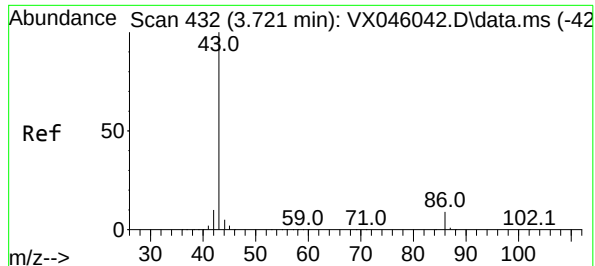
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#22
Diisopropyl ether
Concen: 20.399 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.012 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion: 45 Resp: 86178
Ion Ratio Lower Upper
45 100
43 112.6 66.6 100.0#
87 23.6 19.8 29.6
59 10.1 8.6 12.8





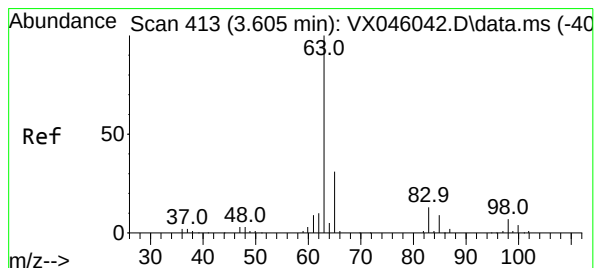
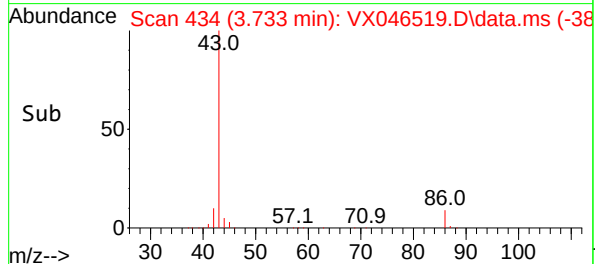
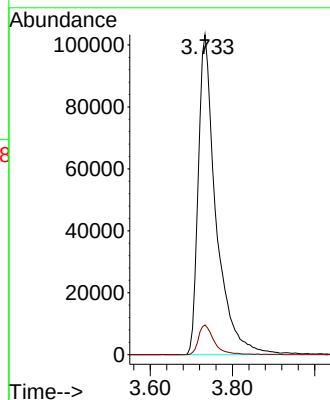
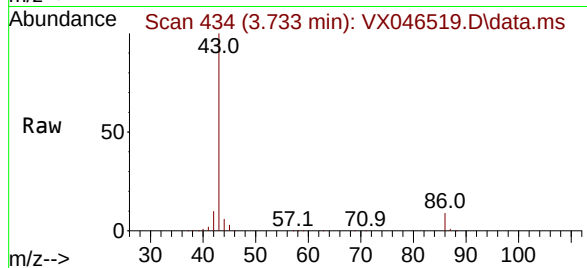
#23
Vinyl Acetate
Concen: 94.776 ug/l
RT: 3.733 min Scan# 411
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 309124
Ion Ratio Lower Upper
43 100
86 9.3 7.5 11.3

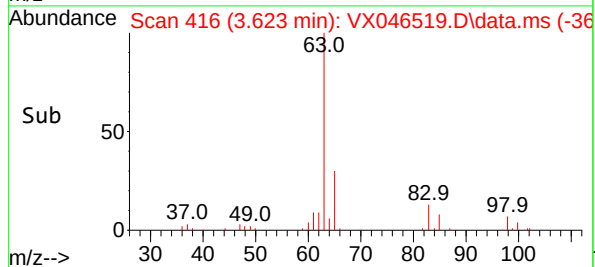
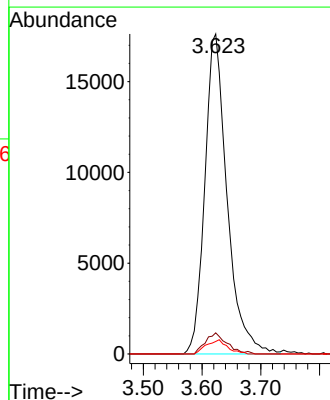
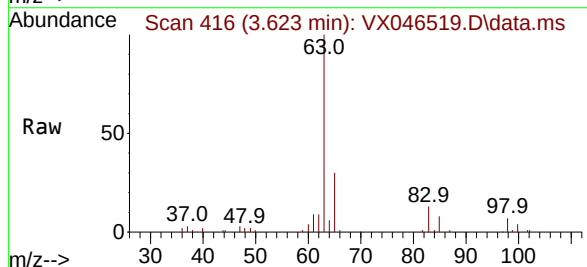
Manual Integrations
APPROVED

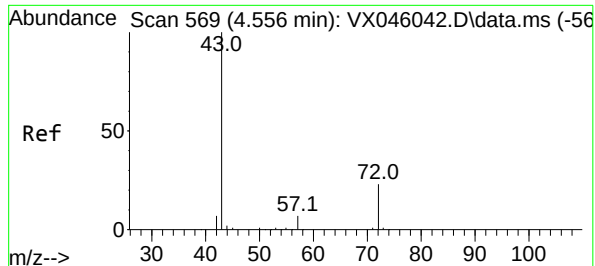
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#24
1,1-Dichloroethane
Concen: 19.761 ug/l
RT: 3.623 min Scan# 416
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion: 63 Resp: 46528
Ion Ratio Lower Upper
63 100
98 6.6 3.6 10.8
100 3.9 2.1 6.3





#25

2-Butanone

Concen: 94.804 ug/l

RT: 4.562 min Scan# 51

Delta R.T. -0.012 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 8628

Ion Ratio Lower Upper

43 100

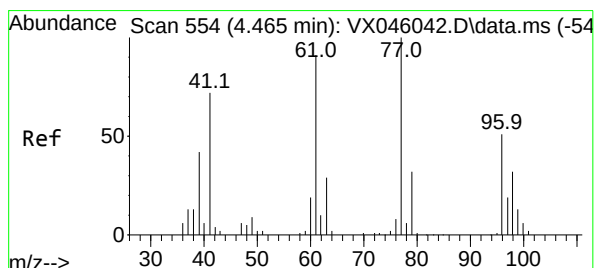
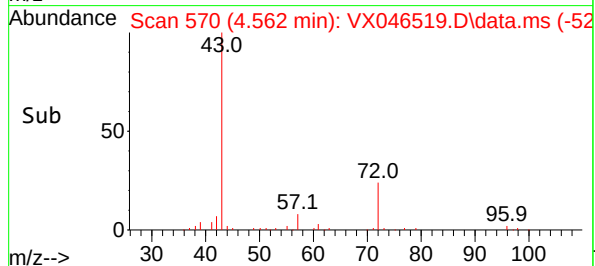
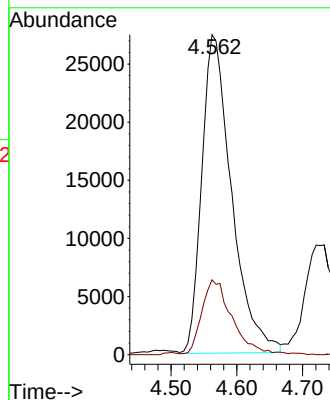
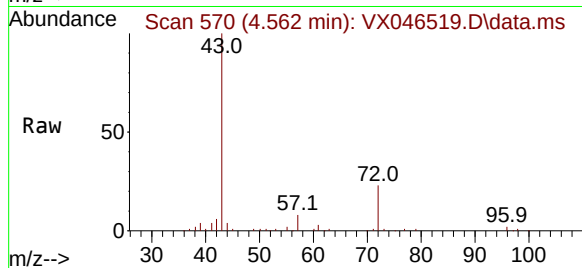
72 23.3 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 19.327 ug/l

RT: 4.489 min Scan# 558

Delta R.T. -0.006 min

Lab File: VX046519.D

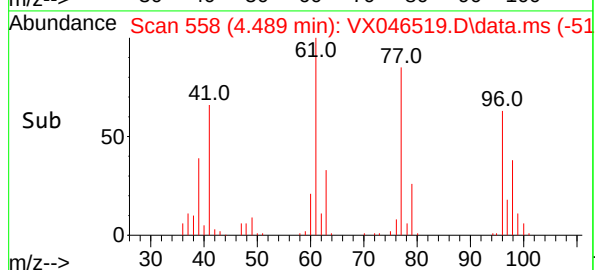
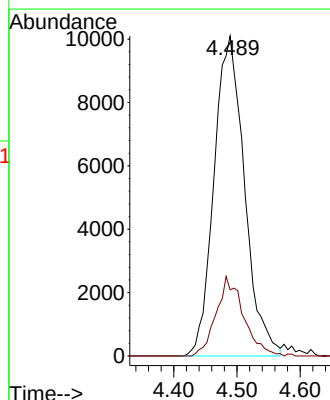
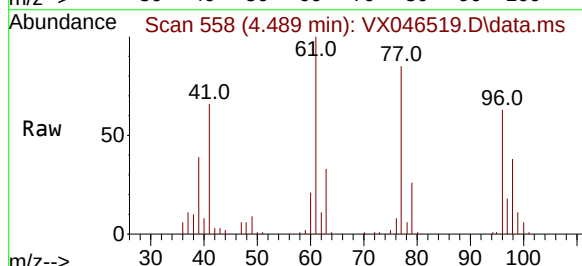
Acq: 06 Jun 2025 10:18

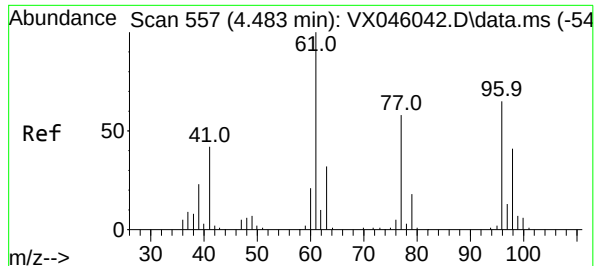
Tgt Ion: 77 Resp: 33782

Ion Ratio Lower Upper

77 100

97 22.3 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 19.439 ug/l

RT: 4.501 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 96 Resp: 2763

Ion Ratio Lower Upper

96 100

61 157.3 0.0 322.8

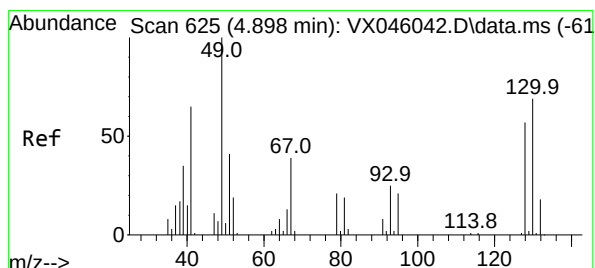
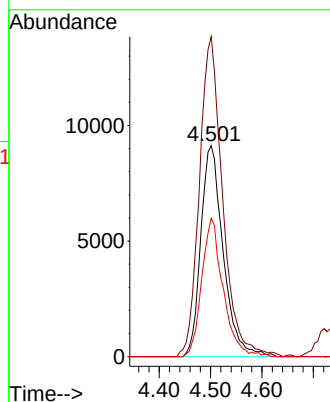
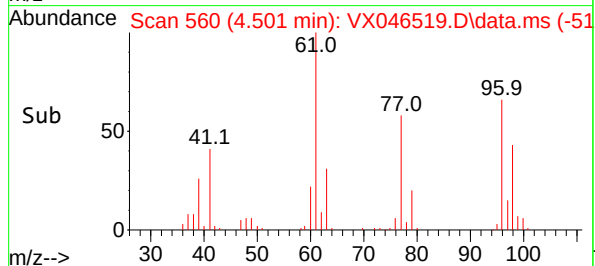
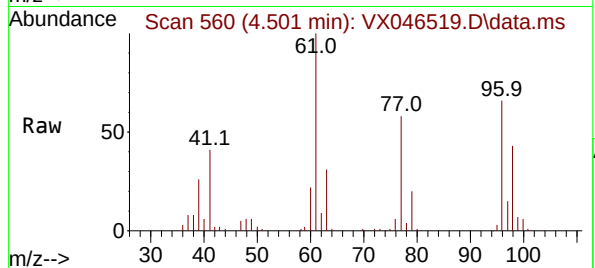
98 62.4 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 19.371 ug/l

RT: 4.910 min Scan# 627

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

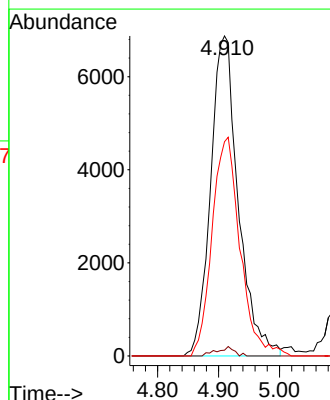
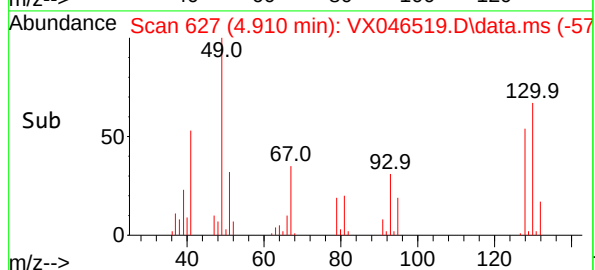
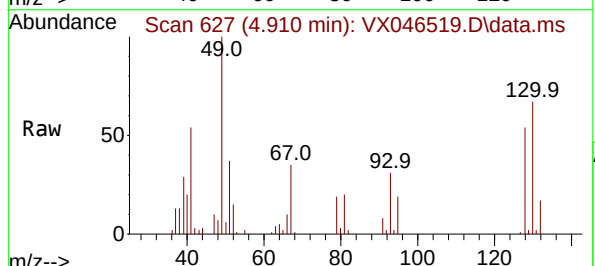
Tgt Ion: 49 Resp: 21754

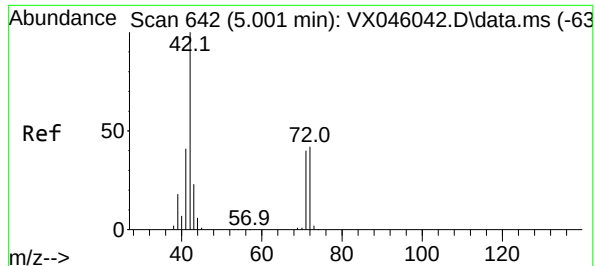
Ion Ratio Lower Upper

49 100

129 1.8 0.0 4.0

130 69.0 56.2 84.2





#29

Tetrahydrofuran

Concen: 93.158 ug/l

RT: 5.013 min Scan# 64

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

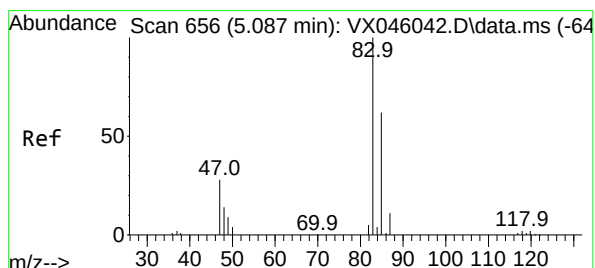
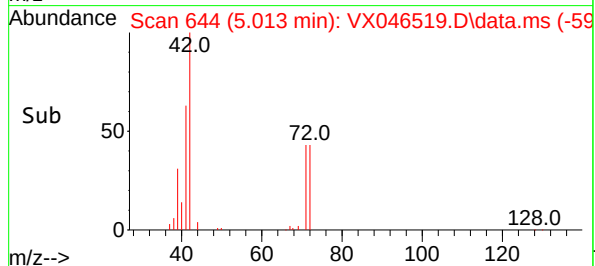
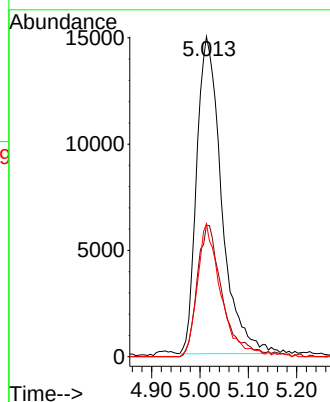
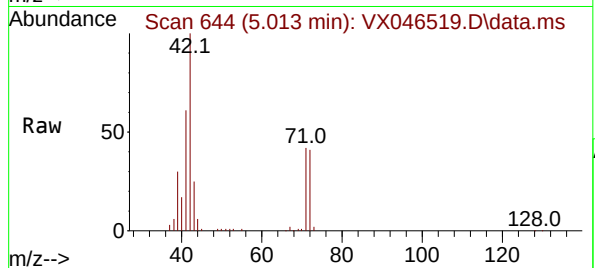
ClientSampleId :

VSTDICC020

Tgt Ion:	42	Resp:	5354
Ion	Ratio	Lower	Upper
42	100		
72	41.9	33.7	50.5
71	39.3	31.4	47.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 20.208 ug/l

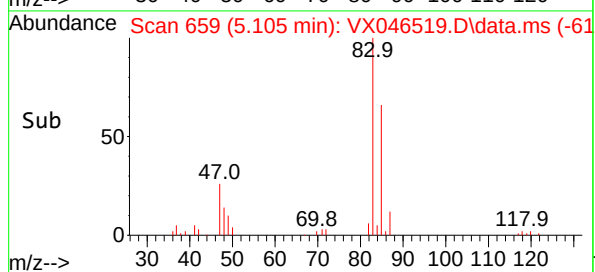
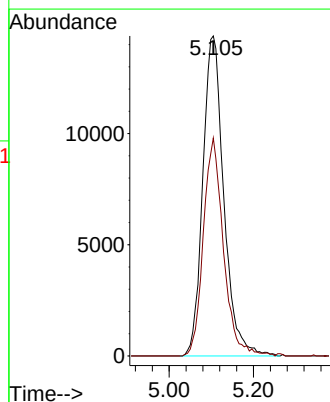
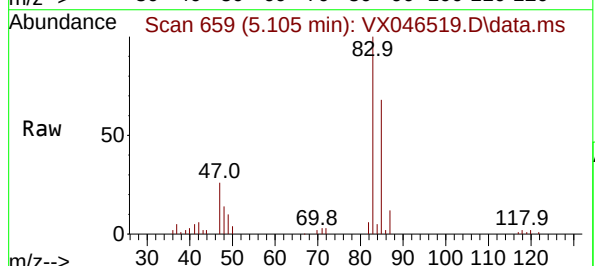
RT: 5.105 min Scan# 659

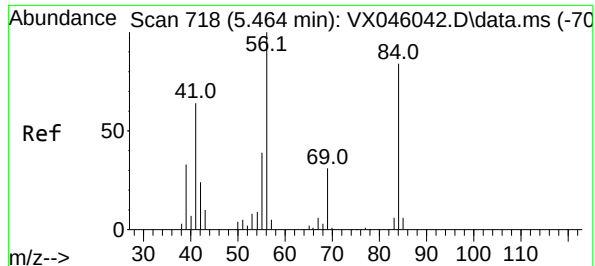
Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Tgt Ion:	83	Resp:	49854
Ion	Ratio	Lower	Upper
83	100		
85	68.1	49.3	73.9





#31

Cyclohexane

Concen: 19.565 ug/l

RT: 5.483 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 3718

Ion Ratio Lower Upper

56 100

69 30.3 24.4 36.6

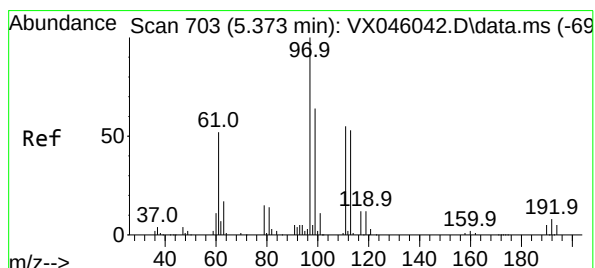
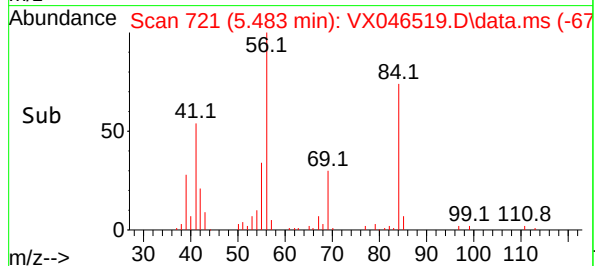
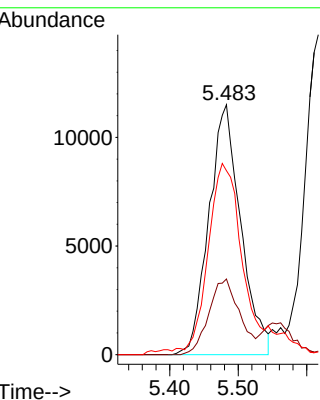
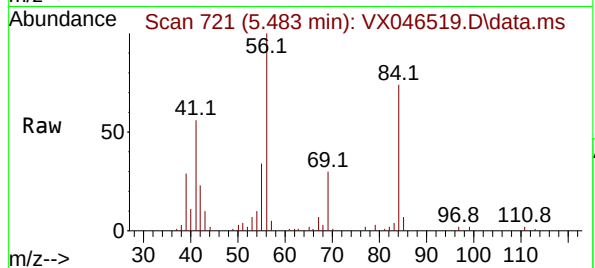
84 71.7 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#32

1,1,1-Trichloroethane

Concen: 19.705 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

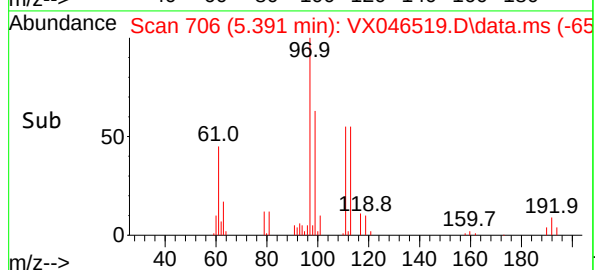
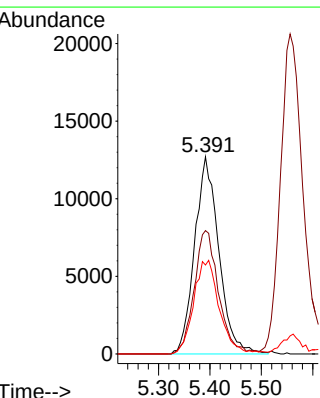
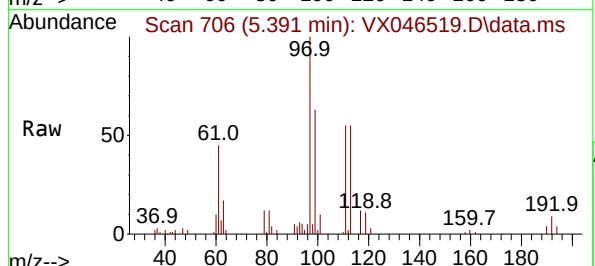
Tgt Ion: 97 Resp: 41583

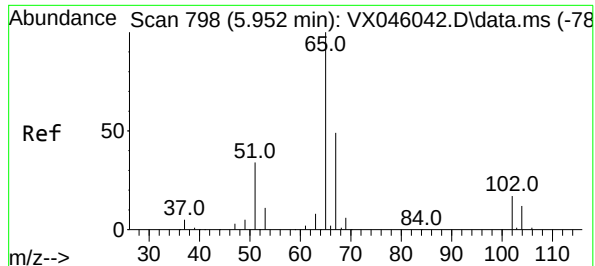
Ion Ratio Lower Upper

97 100

99 63.1 51.8 77.6

61 50.8 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 19.069 ug/l

RT: 5.958 min Scan# 798

Delta R.T. -0.012 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 65 Resp: 3117

Ion Ratio Lower Upper

65 100

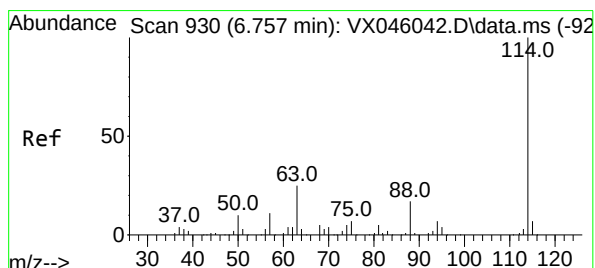
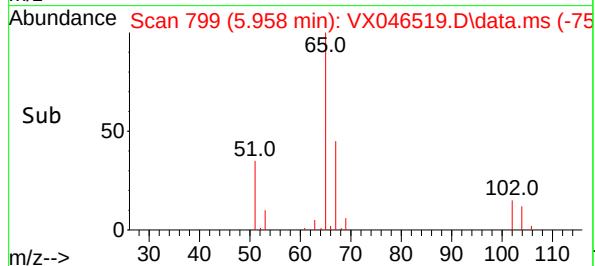
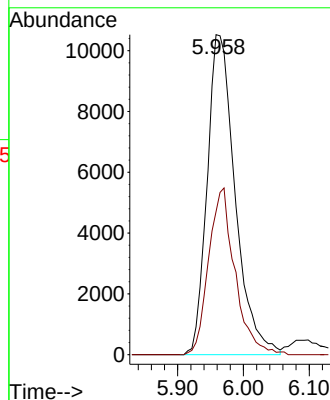
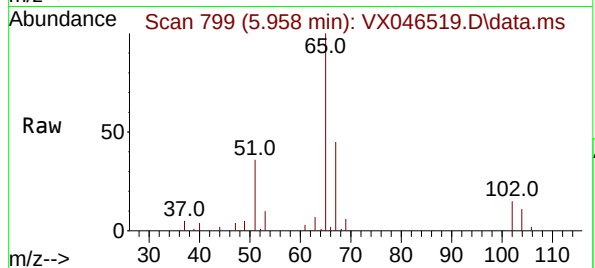
67 48.9 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.012 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

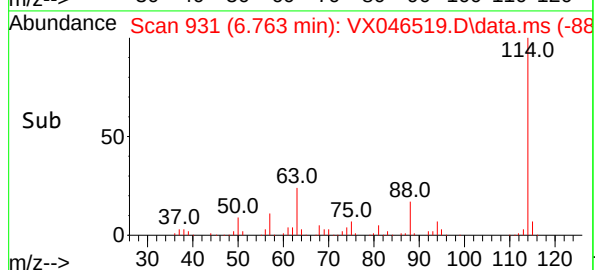
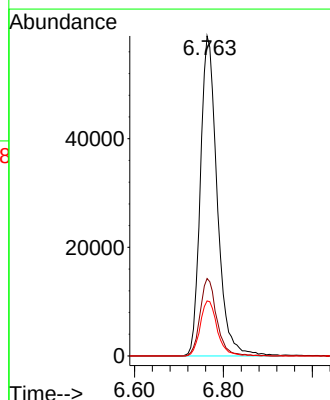
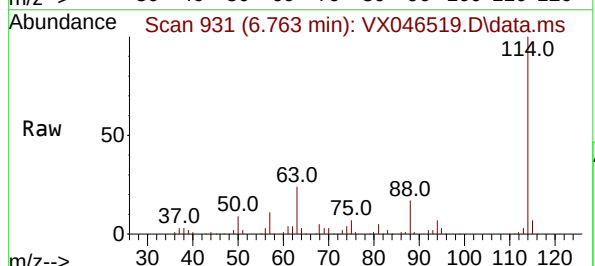
Tgt Ion:114 Resp: 155168

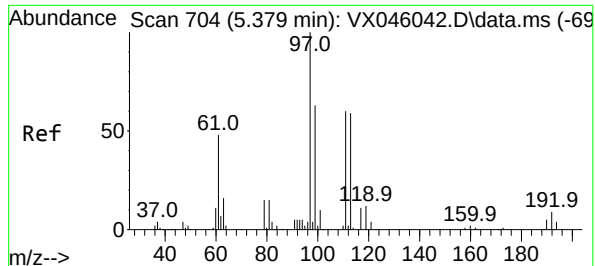
Ion Ratio Lower Upper

114 100

63 24.2 0.0 49.2

88 17.2 0.0 33.6





#35

Dibromofluoromethane

Concen: 19.203 ug/l

RT: 5.391 min Scan# 704

Delta R.T. -0.012 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

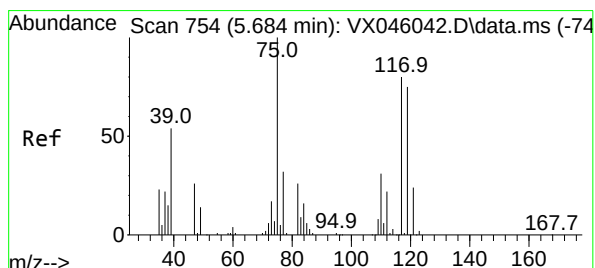
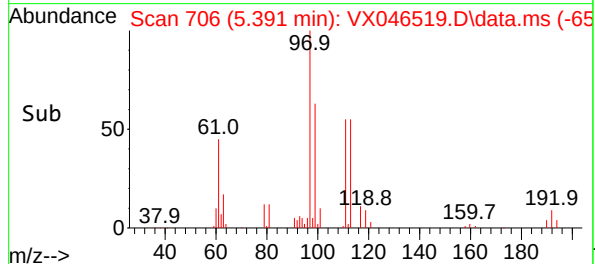
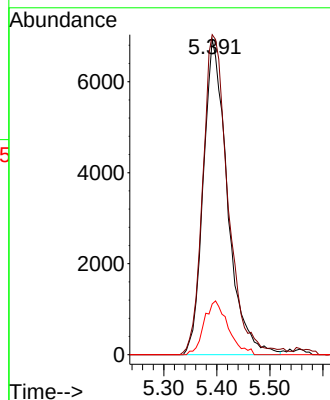
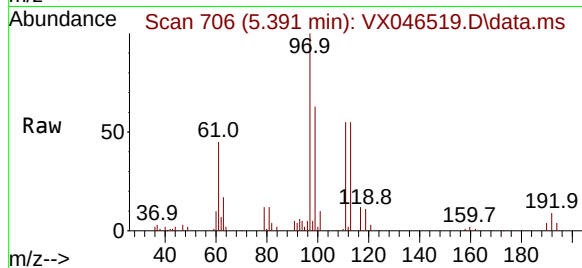
VSTDICC020

Tgt Ion:	113	Resp:	2191
Ion	Ratio	Lower	Upper
113	100		
111	106.4	83.1	124.7
192	16.9	13.3	19.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#36

1,1-Dichloropropene

Concen: 19.262 ug/l

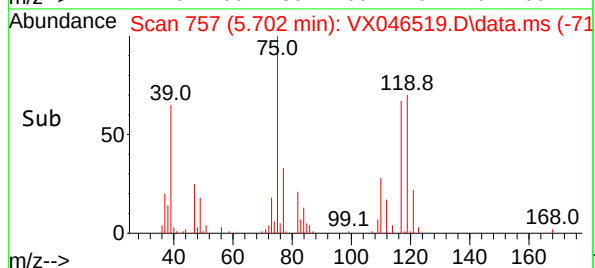
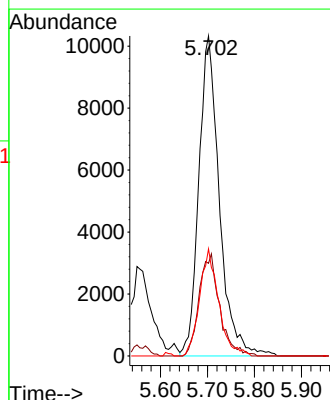
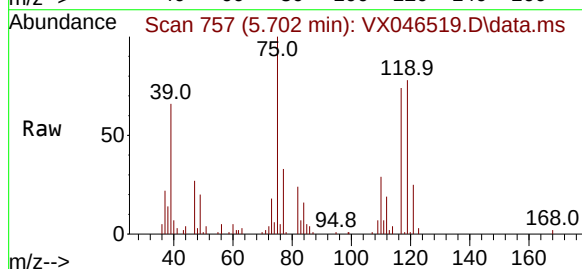
RT: 5.702 min Scan# 757

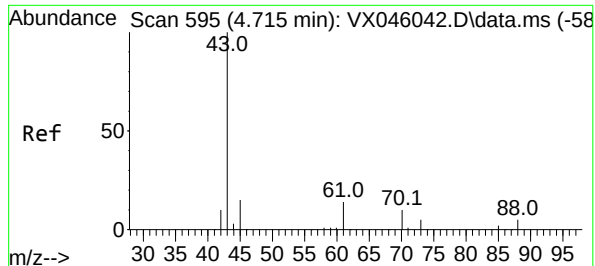
Delta R.T. -0.012 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Tgt Ion:	75	Resp:	31397
Ion	Ratio	Lower	Upper
75	100		
110	31.7	16.3	48.9
77	31.0	24.3	36.5





#37

Ethyl Acetate

Concen: 20.357 ug/l

RT: 4.733 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

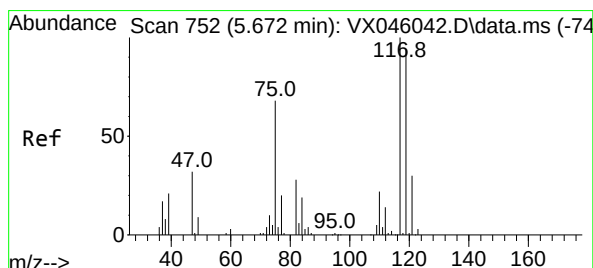
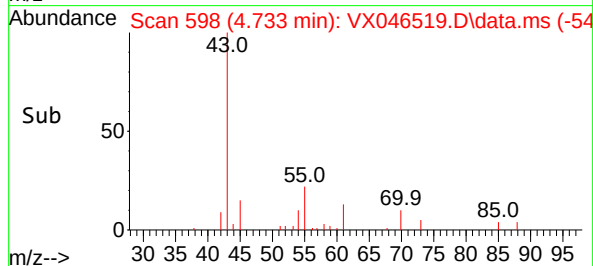
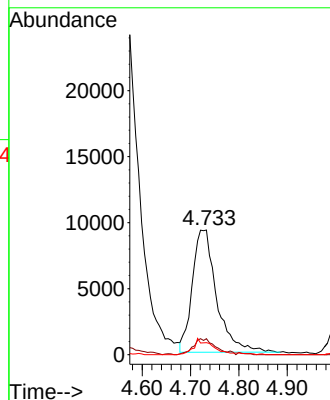
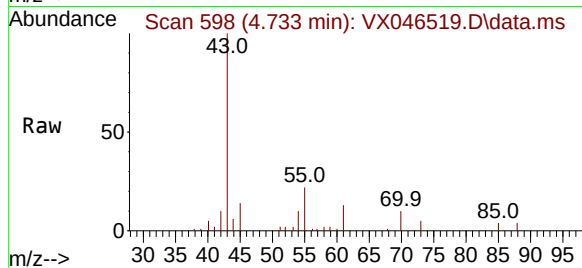
ClientSampleId :

VSTDIC020

Tgt Ion:	43	Resp:	32379
Ion Ratio	Lower	Upper	
43	100		
61	11.9	10.3	15.5
70	10.6	7.9	11.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#38

Carbon Tetrachloride

Concen: 19.695 ug/l

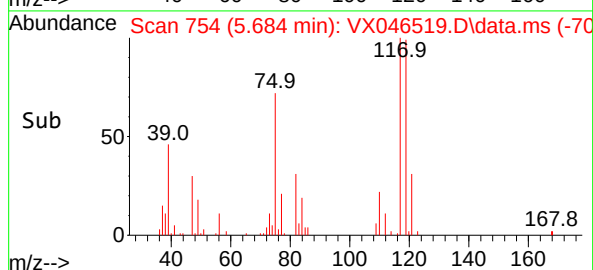
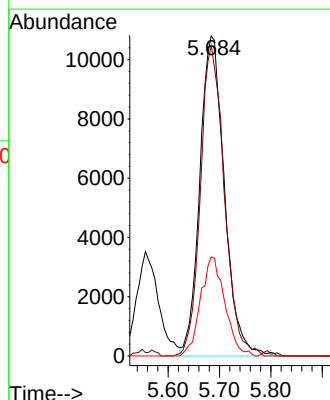
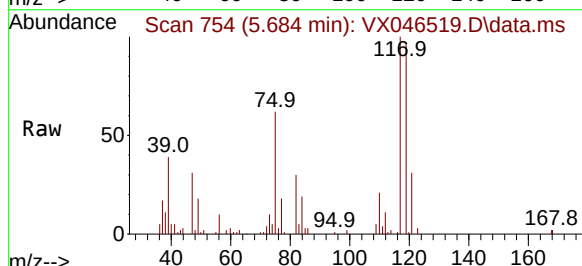
RT: 5.684 min Scan# 754

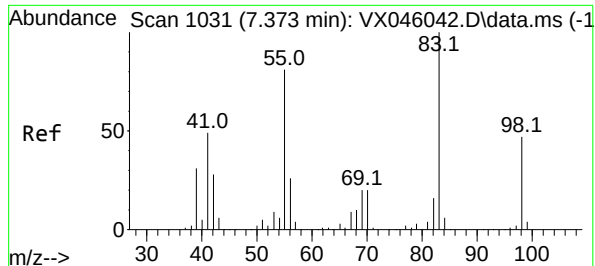
Delta R.T. -0.012 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Tgt Ion:	117	Resp:	35956
Ion Ratio	Lower	Upper	
117	100		
119	96.5	75.2	112.8
121	31.0	24.2	36.4





#39

Methylcyclohexane

Concen: 18.571 ug/l

RT: 7.379 min Scan# 1032

Delta R.T. -0.012 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

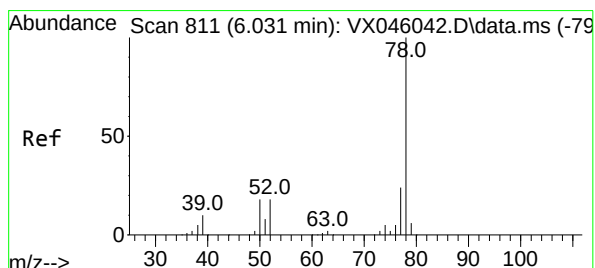
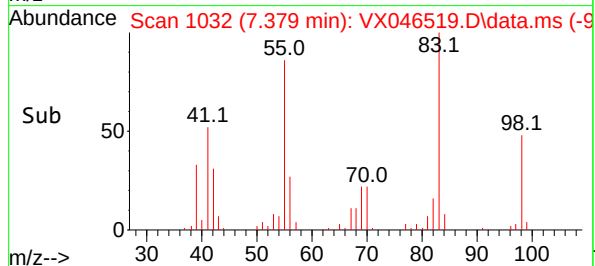
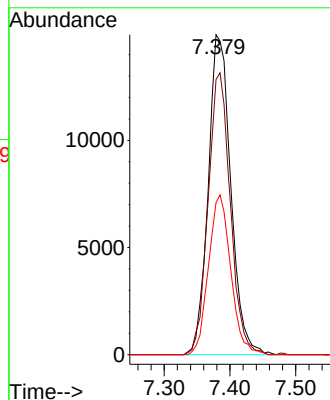
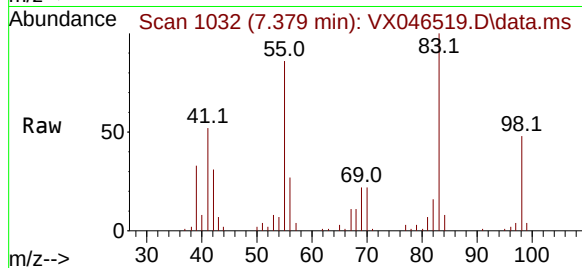
Tgt Ion: 83	Resp: 35729
Ion Ratio	Lower Upper
83	100
55	86.0 64.7 97.1
98	47.6 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#40

Benzene

Concen: 20.336 ug/l

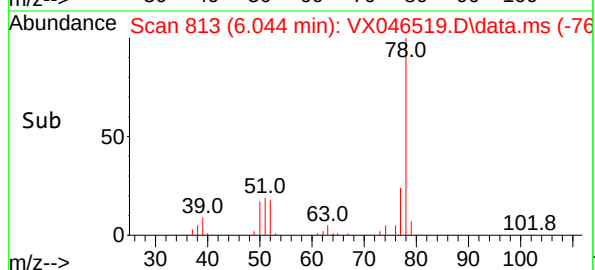
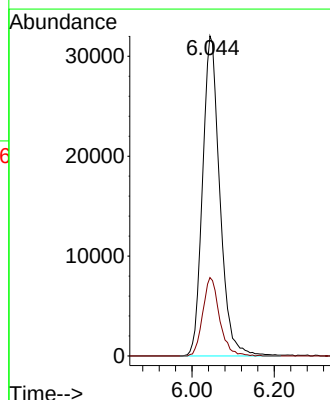
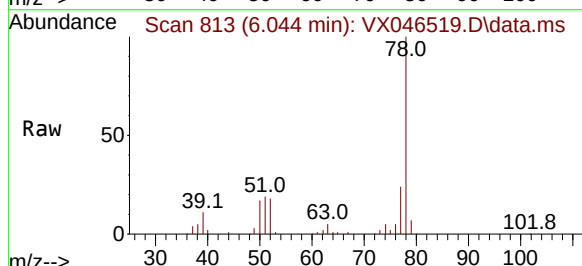
RT: 6.044 min Scan# 813

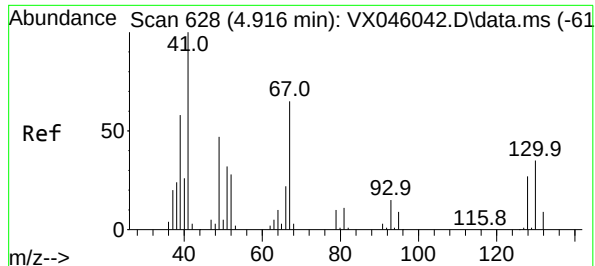
Delta R.T. -0.012 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

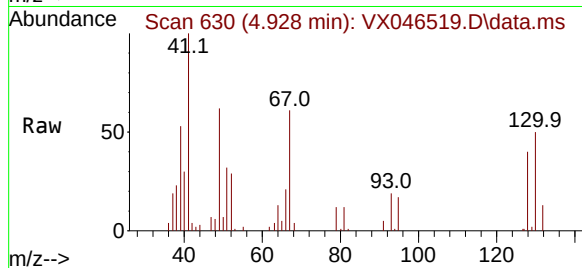
Tgt Ion: 78	Resp: 93317
Ion Ratio	Lower Upper
78	100
77	24.5 19.0 28.4





#41
Methacrylonitrile
Concen: 21.027 ug/l
RT: 4.928 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

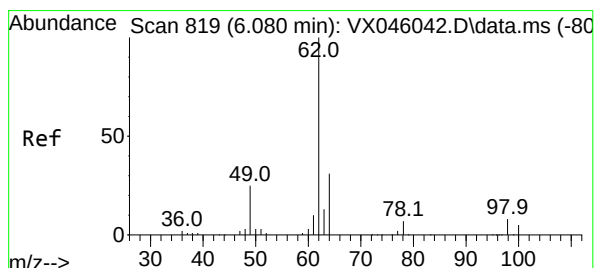
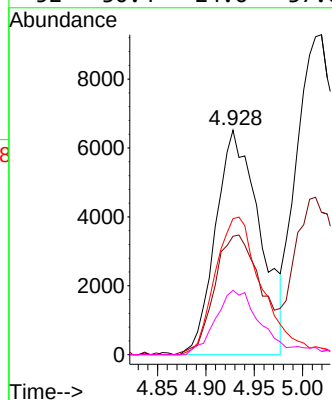
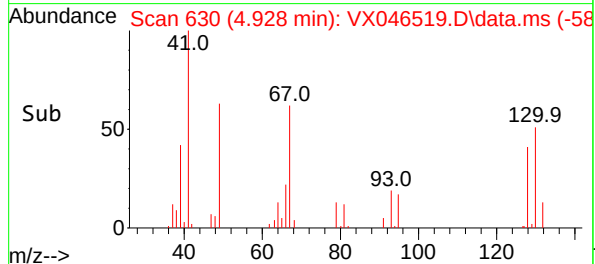
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 41 Resp: 2077
Ion Ratio Lower Upper
41 100
39 54.6 47.2 70.8
67 65.5 50.7 76.1
52 30.4 24.6 37.0

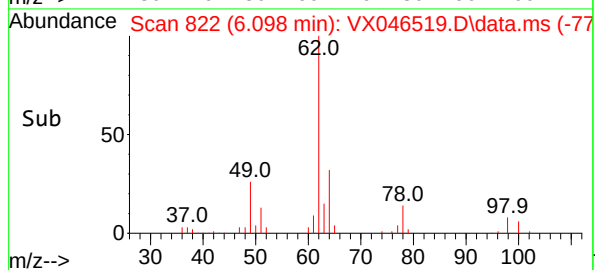
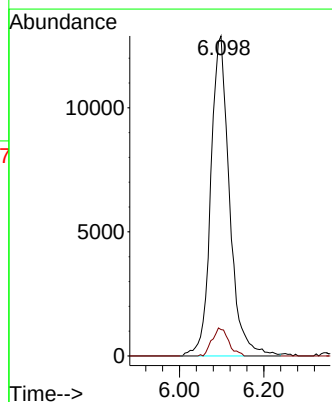
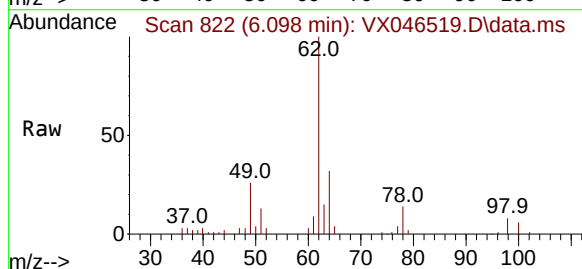
Manual Integrations
APPROVED

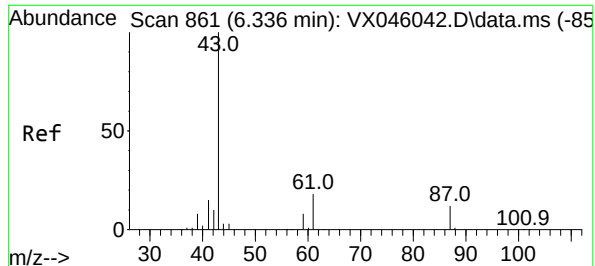
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#42
1,2-Dichloroethane
Concen: 20.832 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion: 62 Resp: 39768
Ion Ratio Lower Upper
62 100
98 7.7 0.0 15.2





#43

Isopropyl Acetate

Concen: 19.851 ug/l

RT: 6.342 min Scan# 862

Delta R.T. -0.012 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

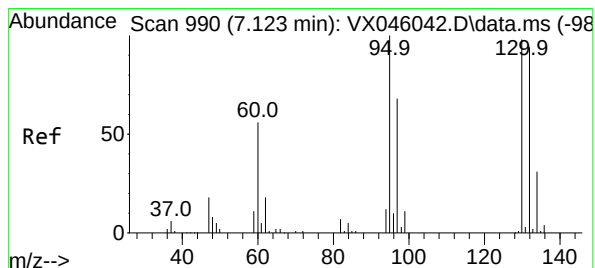
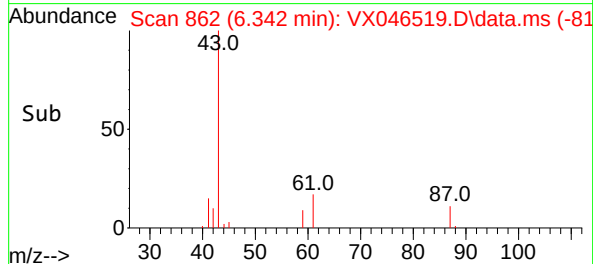
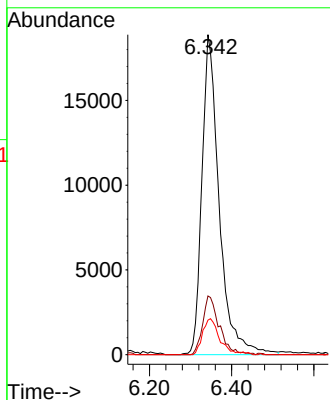
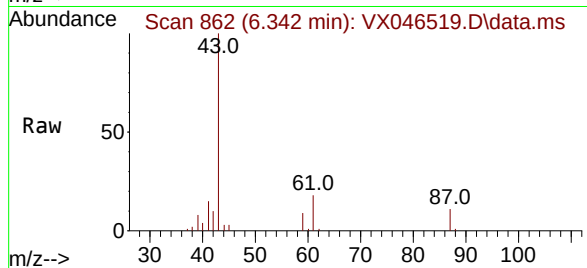
VSTDIC020

Tgt Ion: 43	Resp: 55054
Ion Ratio	Lower Upper
43	100
61	17.6 14.3 21.5
87	11.2 9.5 14.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#44

Trichloroethene

Concen: 18.950 ug/l

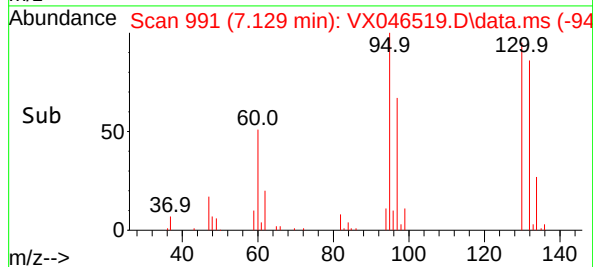
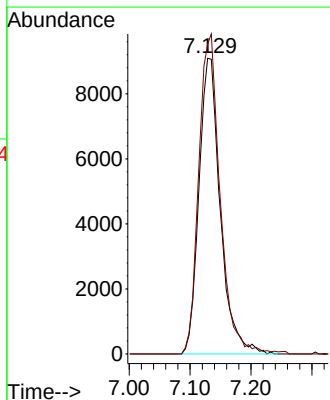
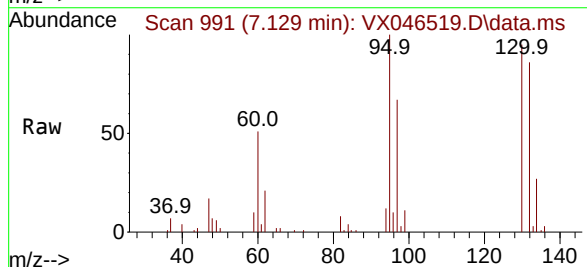
RT: 7.129 min Scan# 991

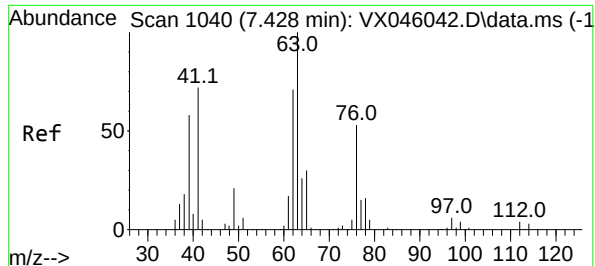
Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Tgt Ion:130	Resp: 22094
Ion Ratio	Lower Upper
130	100
95	104.9 0.0 204.2





#45

1,2-Dichloropropane

Concen: 20.760 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 2458

Ion Ratio Lower Upper

63 100

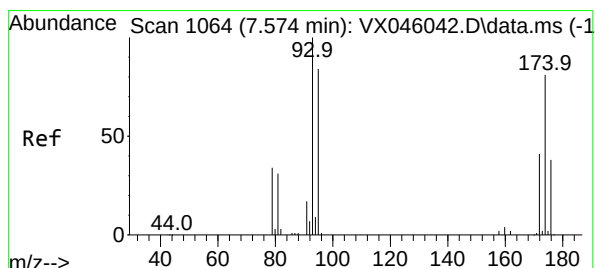
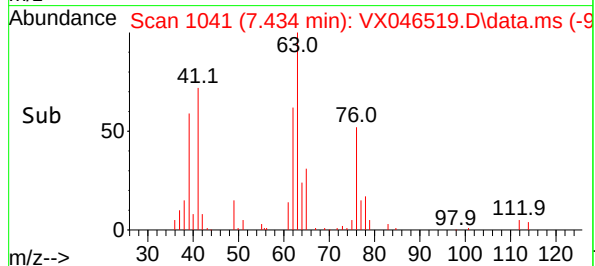
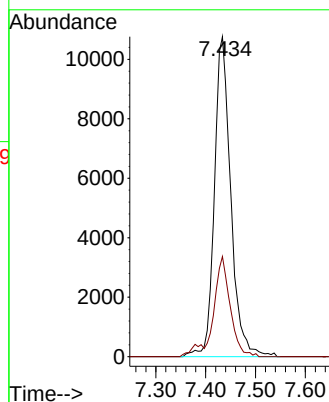
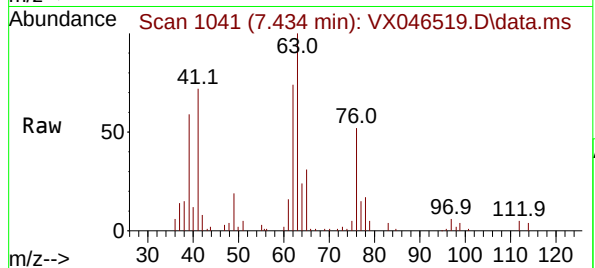
65 31.3 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#46

Dibromomethane

Concen: 19.924 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

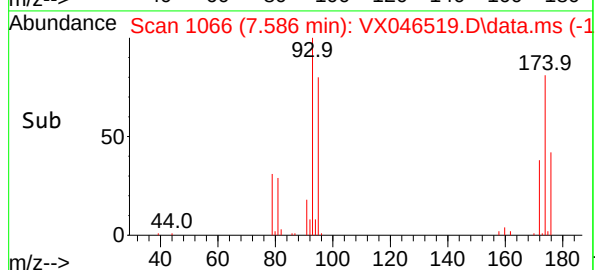
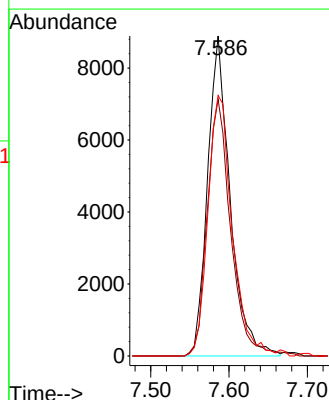
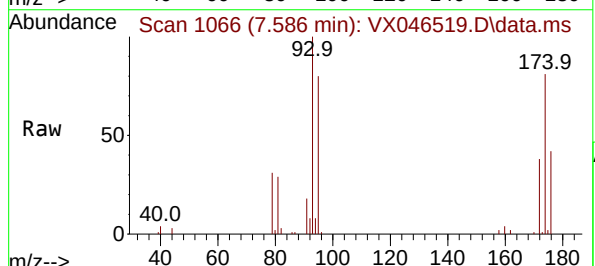
Tgt Ion: 93 Resp: 17753

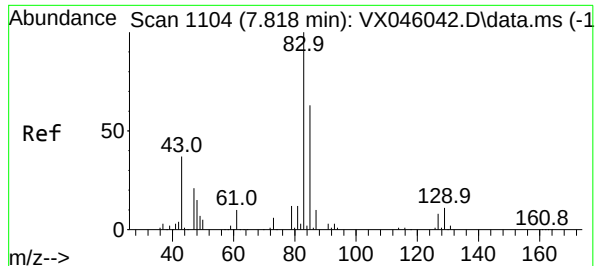
Ion Ratio Lower Upper

93 100

95 83.7 65.6 98.4

174 88.4 68.2 102.2





#47

Bromodichloromethane

Concen: 20.919 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

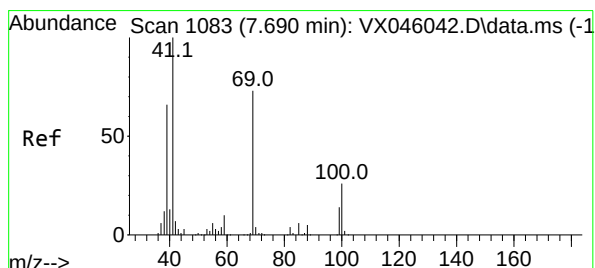
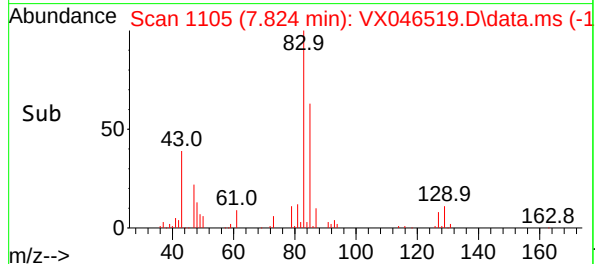
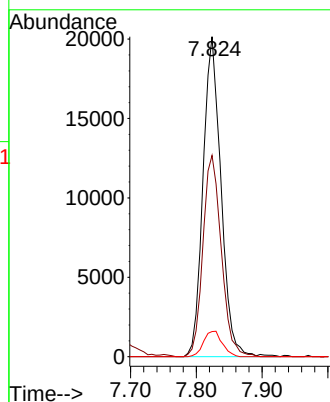
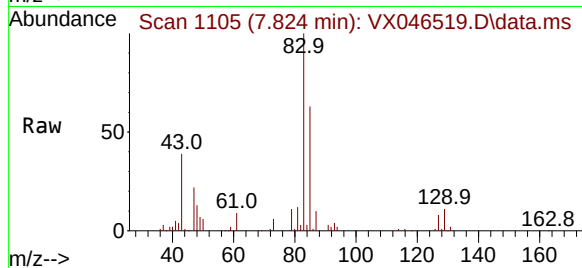
VSTDICC020

Tgt Ion:	83	Resp:	3832
Ion	Ratio	Lower	Upper
83	100		
85	62.9	50.5	75.7
127	7.9	6.5	9.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#48

Methyl methacrylate

Concen: 19.755 ug/l

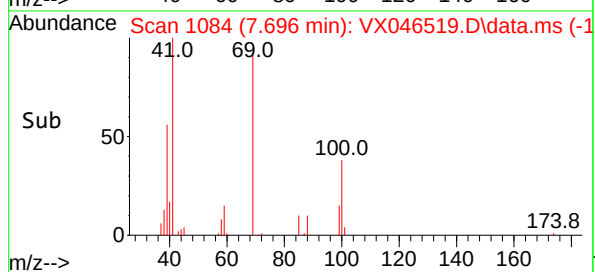
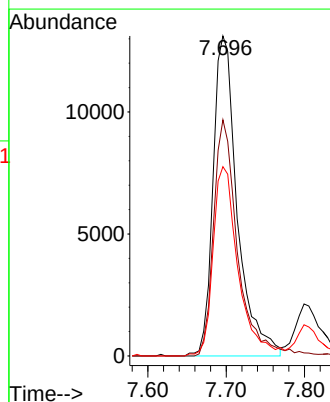
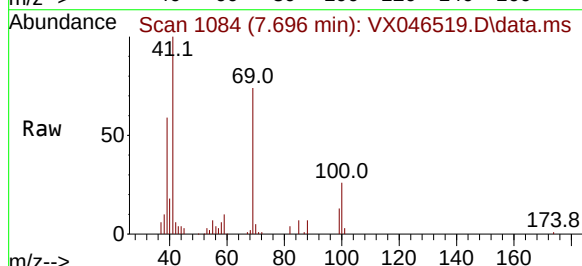
RT: 7.696 min Scan# 1084

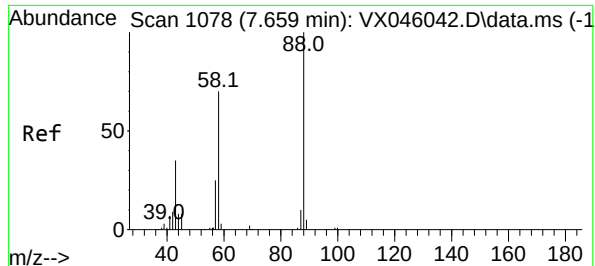
Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Tgt Ion:	41	Resp:	28189
Ion	Ratio	Lower	Upper
41	100		
69	73.6	58.5	87.7
39	61.4	51.7	77.5





#49

1,4-Dioxane

Concen: 425.896 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

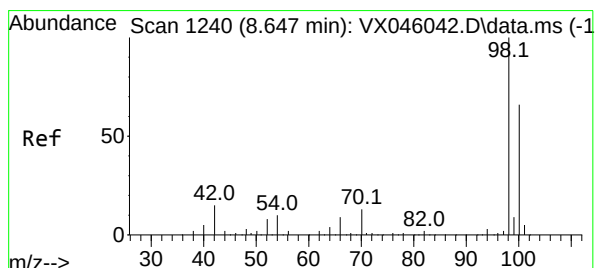
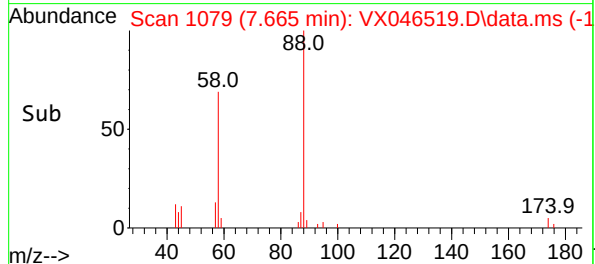
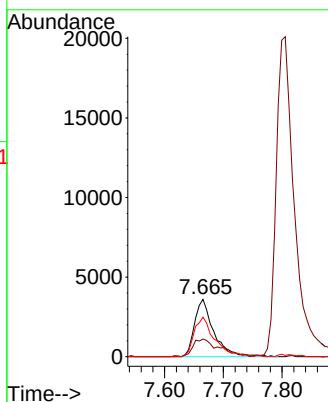
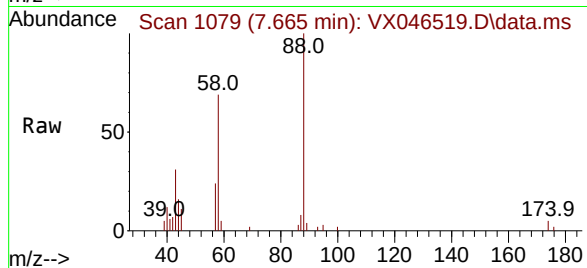
VSTDIC020

Tgt Ion	88	Resp	812
Ion Ratio	100		
Lower			
Upper			
88	100		
43	42.6	33.4	50.2
58	73.5	58.6	88.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#50

Toluene-d8

Concen: 19.116 ug/l

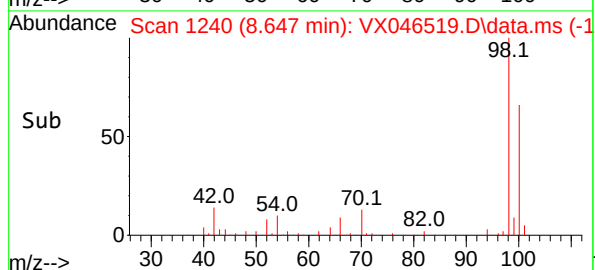
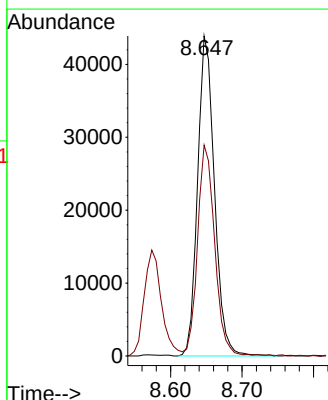
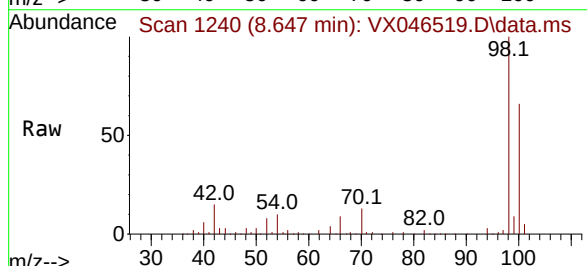
RT: 8.647 min Scan# 1240

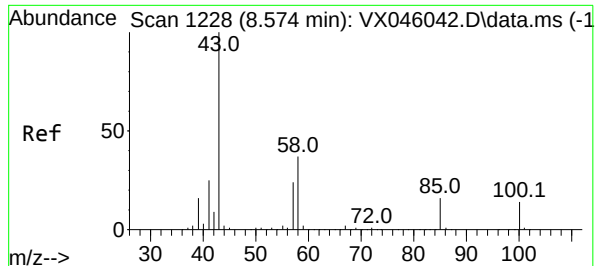
Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Tgt Ion	98	Resp	71915
Ion Ratio	100		
Lower			
Upper			
98	100		
100	67.1	53.5	80.3





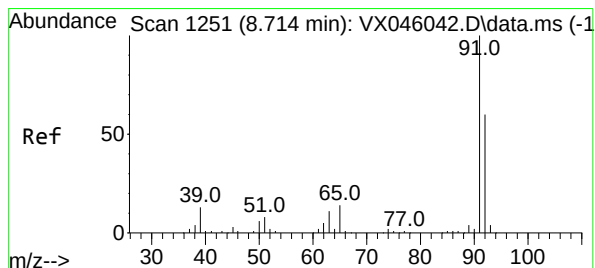
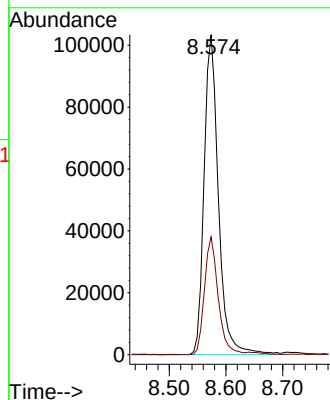
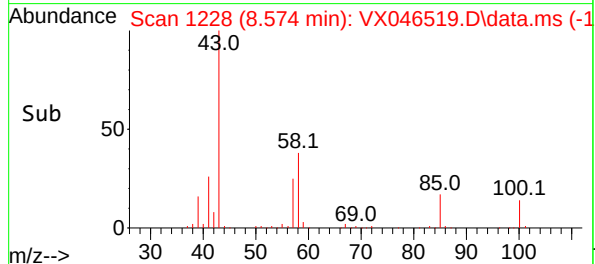
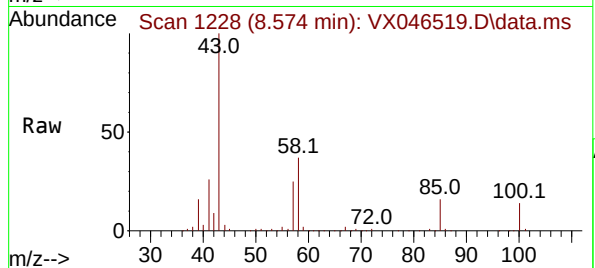
#51
4-Methyl-2-Pentanone
Concen: 102.687 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 180974
Ion Ratio Lower Upper
43 100
58 35.4 28.9 43.3

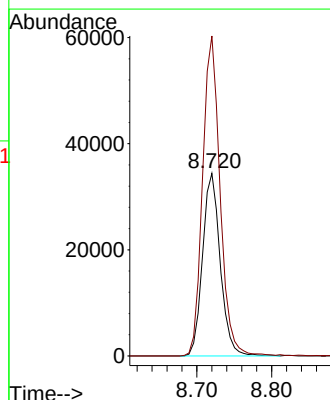
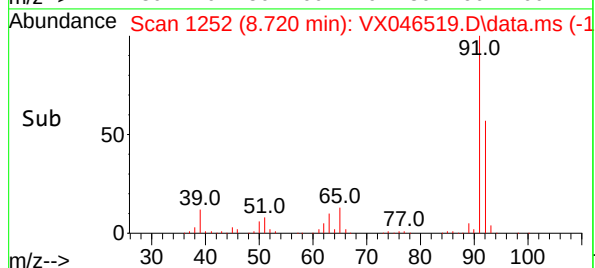
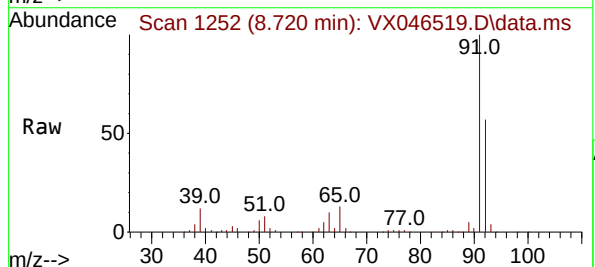
Manual Integrations
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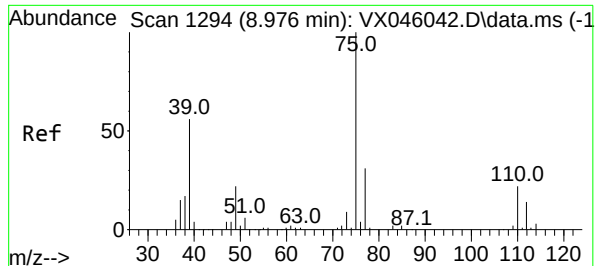
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#52
Toluene
Concen: 20.055 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion: 92 Resp: 56537
Ion Ratio Lower Upper
92 100
91 173.4 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 19.817 ug/l

RT: 8.976 min Scan# 1195

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 75 Resp: 3255

Ion Ratio Lower Upper

75 100

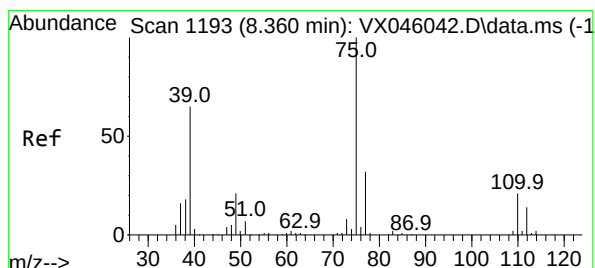
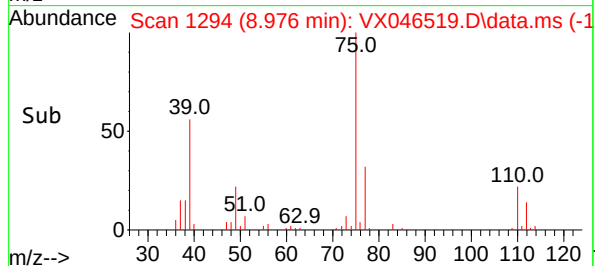
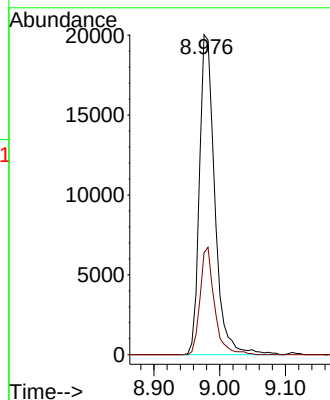
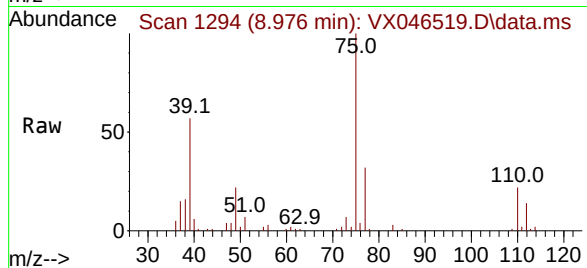
77 31.8 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#54

cis-1,3-Dichloropropene

Concen: 19.716 ug/l

RT: 8.372 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

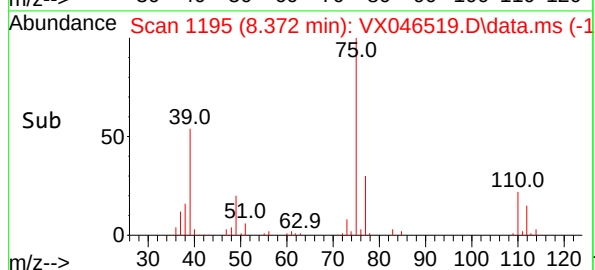
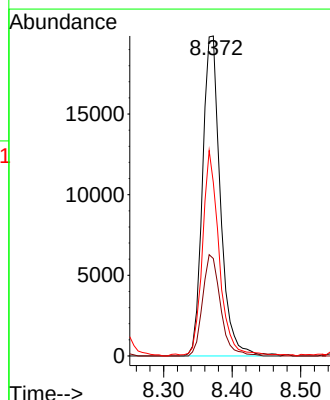
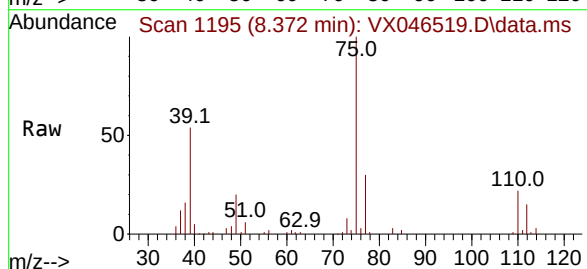
Tgt Ion: 75 Resp: 36009

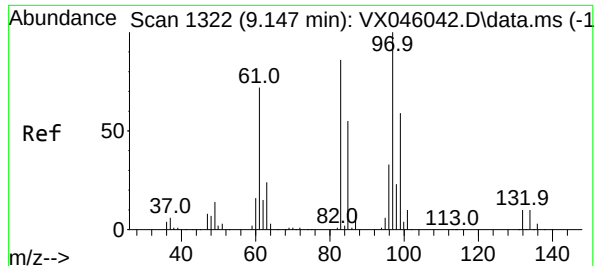
Ion Ratio Lower Upper

75 100

77 30.4 25.4 38.0

39 53.8 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 21.322 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 24130

Ion Ratio Lower Upper

97 100

83 89.2 69.0 103.6

85 55.8 44.3 66.5

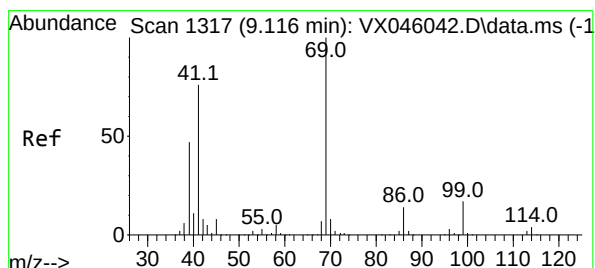
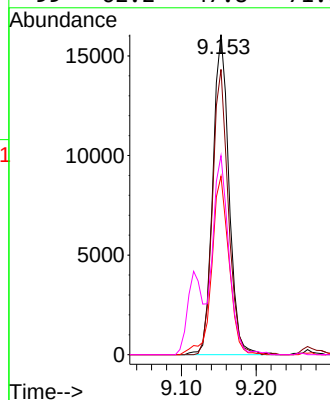
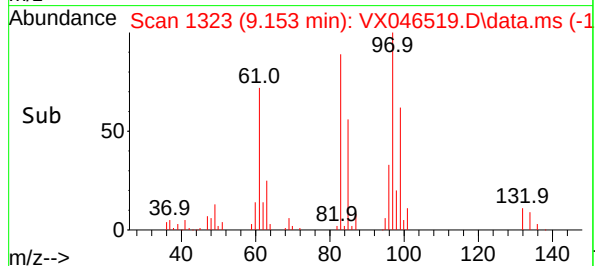
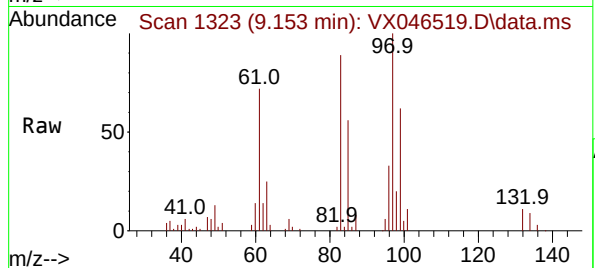
99 62.2 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#56

Ethyl methacrylate

Concen: 20.176 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

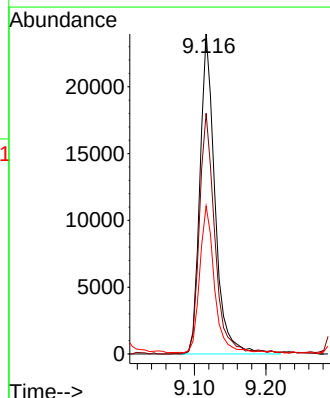
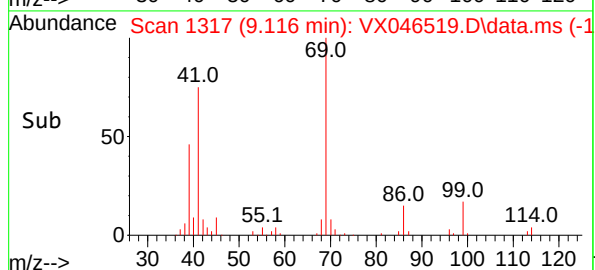
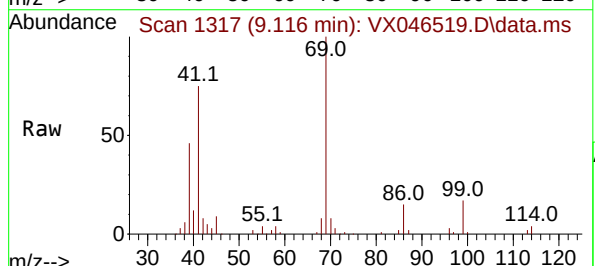
Tgt Ion: 69 Resp: 35137

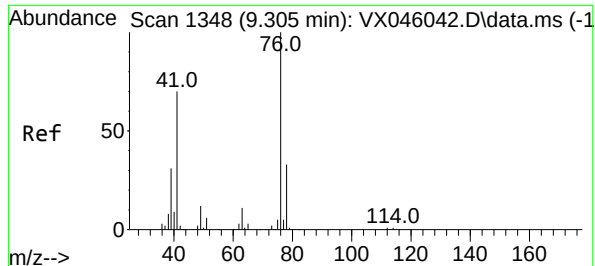
Ion Ratio Lower Upper

69 100

41 76.4 60.8 91.2

39 44.2 39.0 58.6





#57

1,3-Dichloropropane

Concen: 20.653 ug/l

RT: 9.305 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 41300

Ion Ratio Lower Upper

76 100

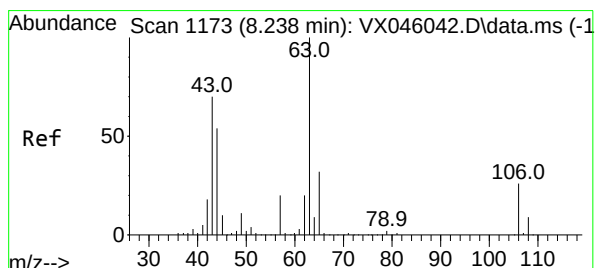
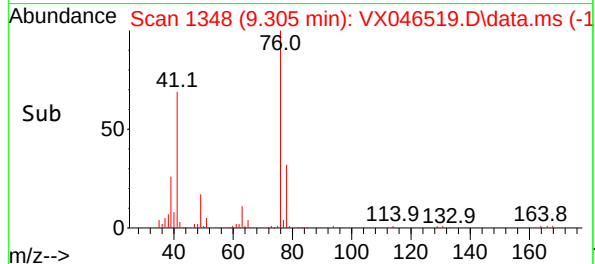
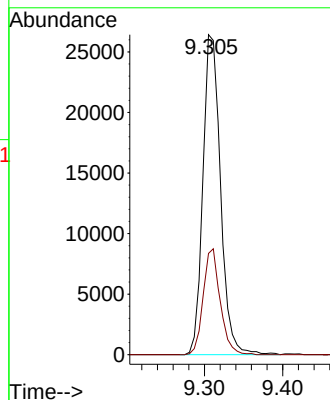
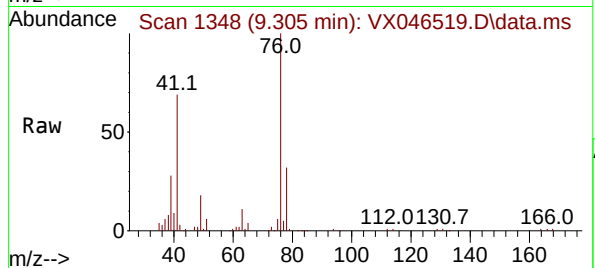
78 31.8 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#58

2-Chloroethyl Vinyl ether

Concen: 98.650 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046519.D

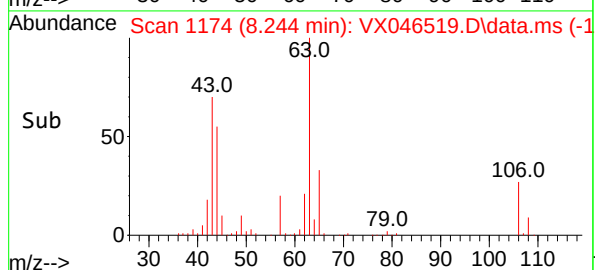
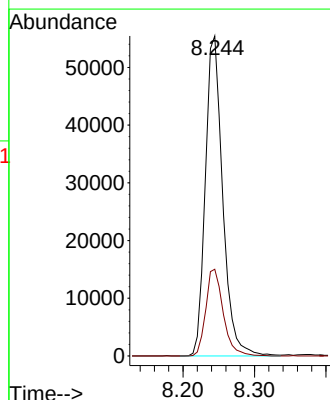
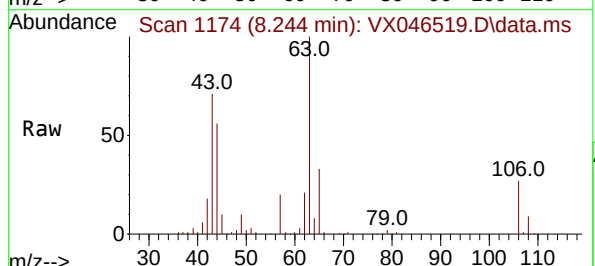
Acq: 06 Jun 2025 10:18

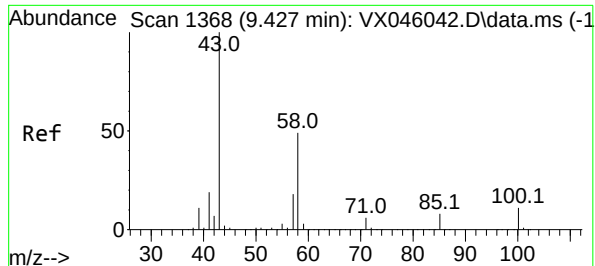
Tgt Ion: 63 Resp: 93580

Ion Ratio Lower Upper

63 100

106 27.3 21.5 32.3





#59

2-Hexanone

Concen: 102.032 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 128964

Ion Ratio Lower Upper

43 100

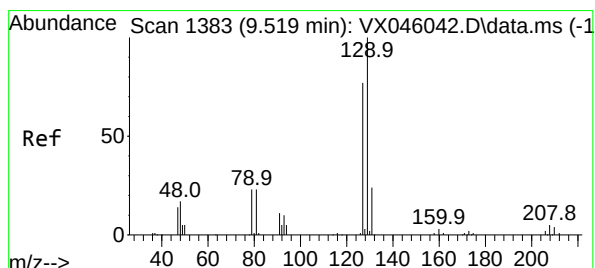
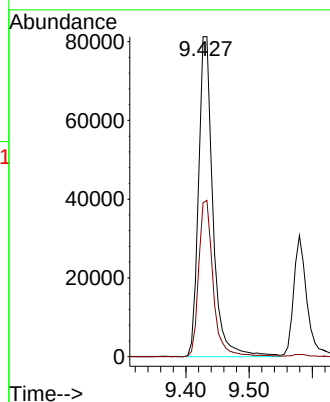
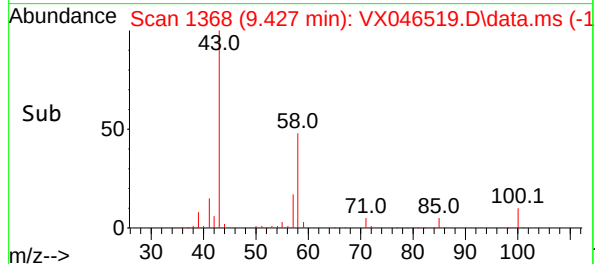
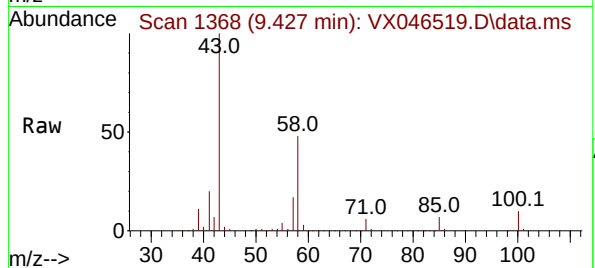
58 49.1 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#60

Dibromochloromethane

Concen: 20.414 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.006 min

Lab File: VX046519.D

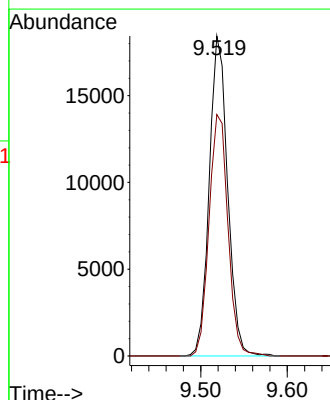
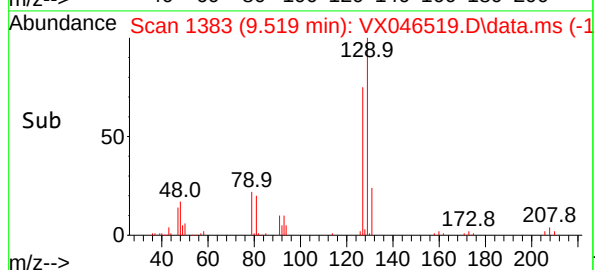
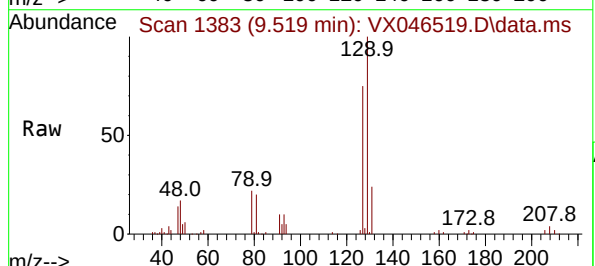
Acq: 06 Jun 2025 10:18

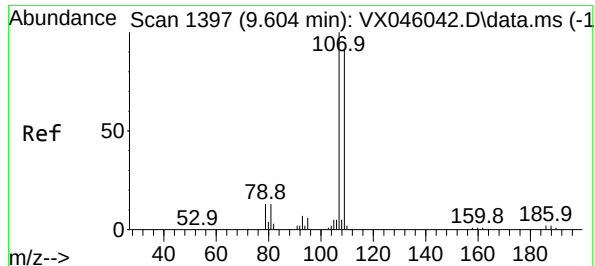
Tgt Ion:129 Resp: 27175

Ion Ratio Lower Upper

129 100

127 77.8 39.3 117.8





#61

1,2-Dibromoethane

Concen: 19.996 ug/l

RT: 9.610 min Scan# 1397

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion:107 Resp: 2358

Ion Ratio Lower Upper

107 100

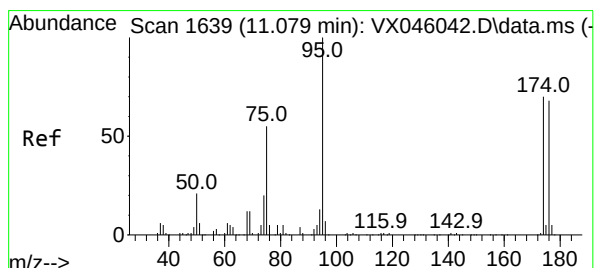
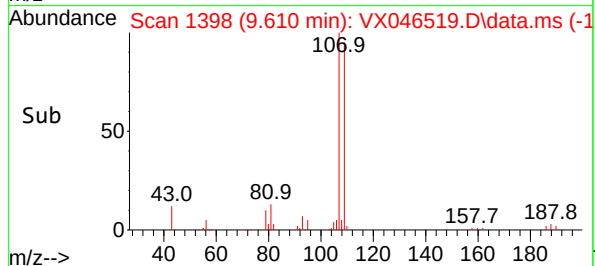
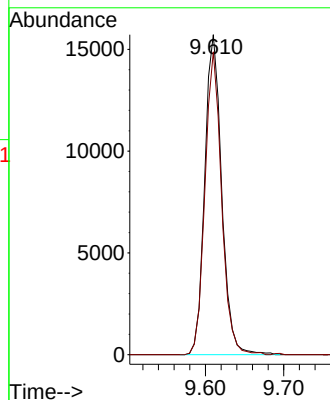
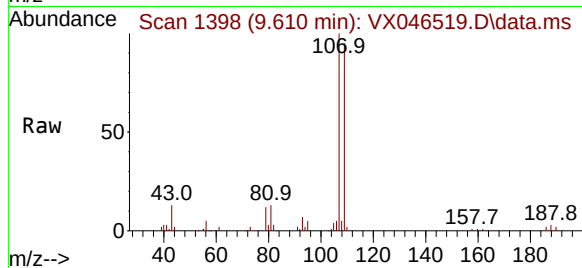
109 92.7 73.3 109.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#62

4-Bromofluorobenzene

Concen: 19.224 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

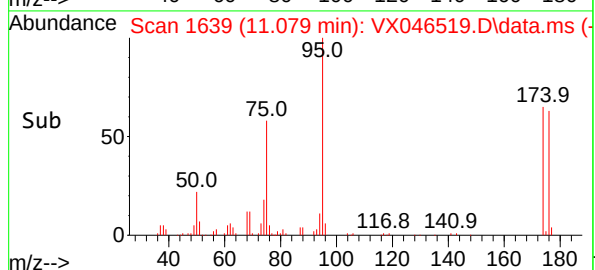
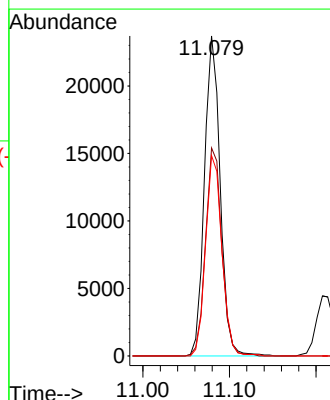
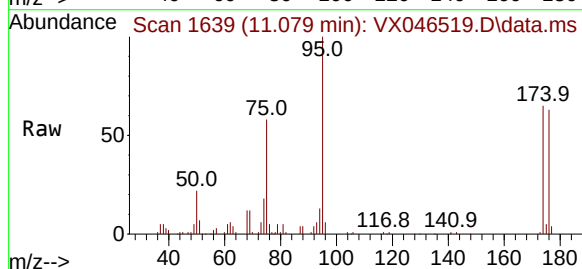
Tgt Ion: 95 Resp: 29923

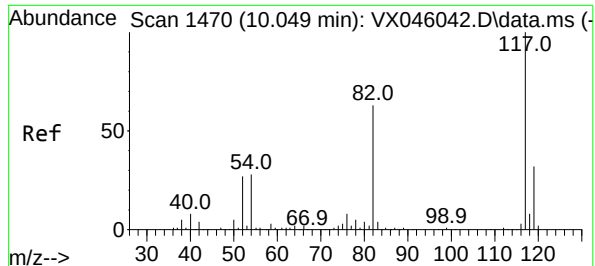
Ion Ratio Lower Upper

95 100

174 67.2 0.0 135.8

176 65.0 0.0 131.4





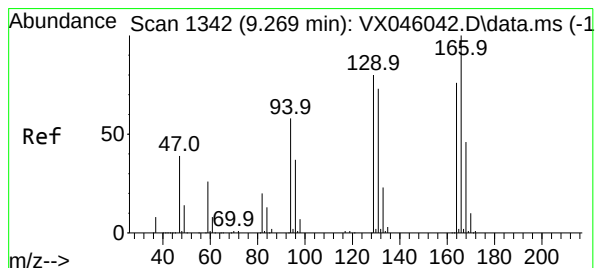
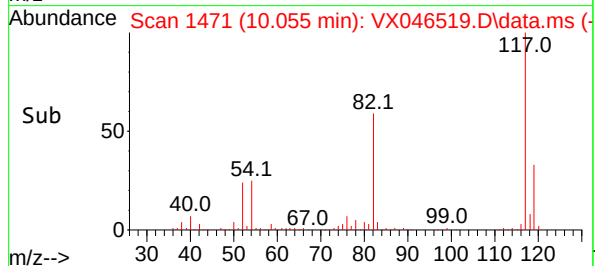
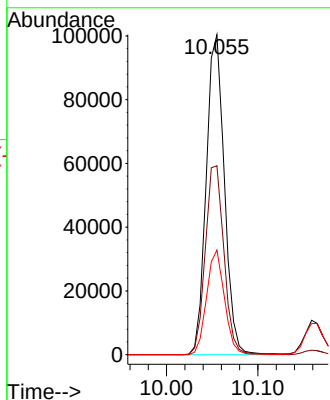
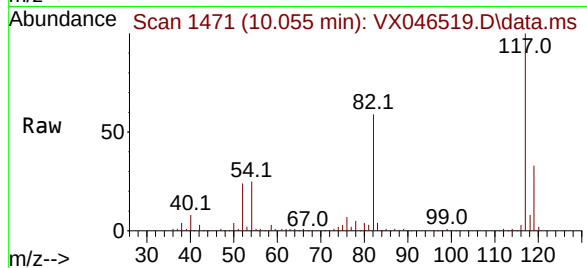
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:117 Resp: 13817
Ion Ratio Lower Upper
117 100
82 59.0 50.6 76.0
119 32.7 25.8 38.6

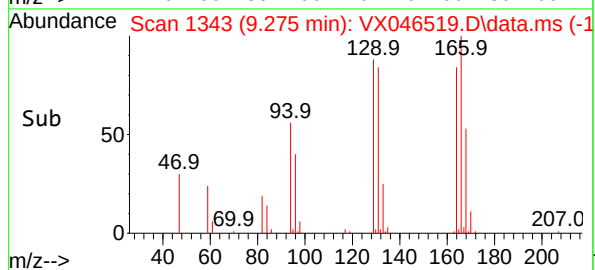
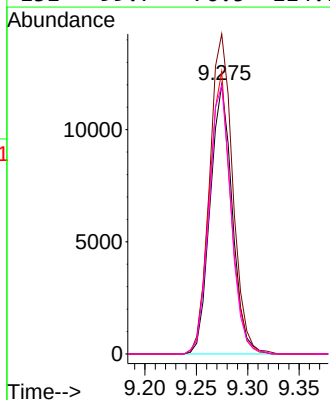
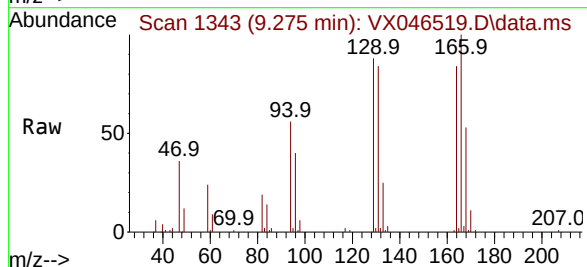
Manual Integrations
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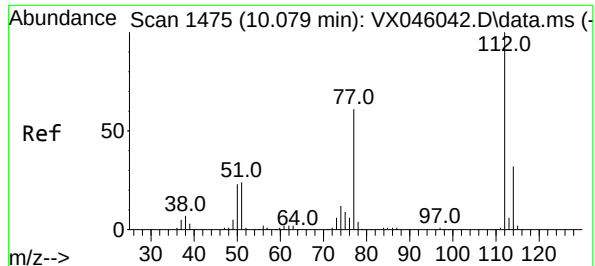
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#64
Tetrachloroethene
Concen: 19.362 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion:164 Resp: 17890
Ion Ratio Lower Upper
164 100
166 118.7 105.0 157.6
129 104.8 83.5 125.3
131 99.7 76.5 114.7





#65

Chlorobenzene

Concen: 19.600 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion:112 Resp: 6369

Ion Ratio Lower Upper

112 100

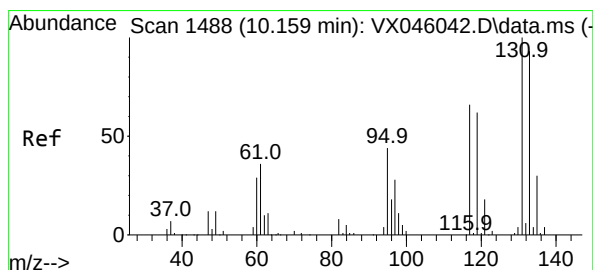
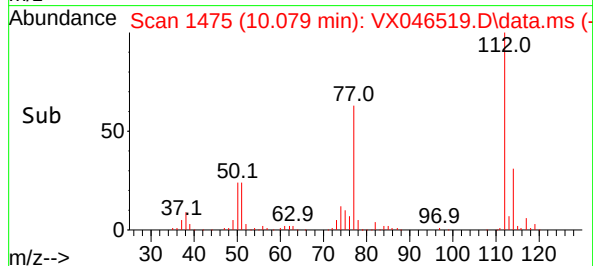
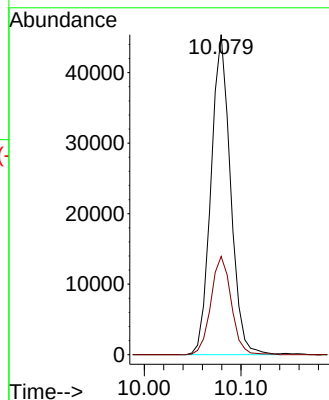
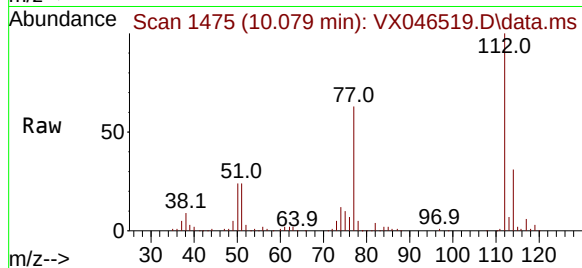
114 30.7 25.4 38.2

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 20.205 ug/l

RT: 10.165 min Scan# 1489

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

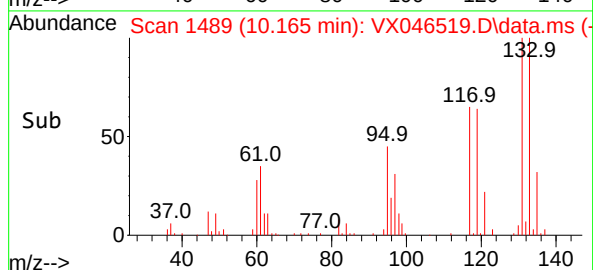
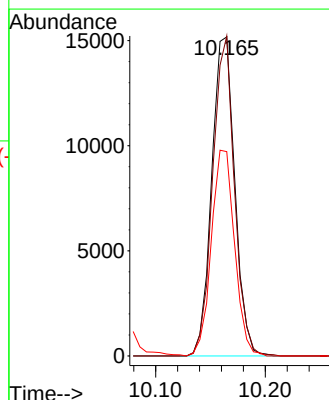
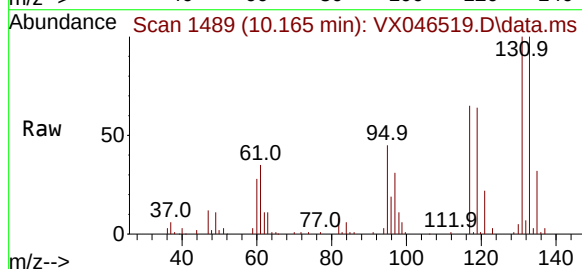
Tgt Ion:131 Resp: 22188

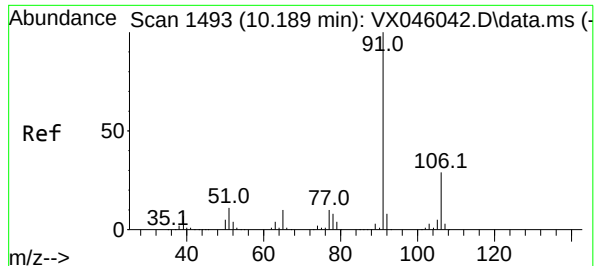
Ion Ratio Lower Upper

131 100

133 94.4 47.3 141.9

119 64.9 31.6 95.0





#67

Ethyl Benzene

Concen: 19.765 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 11212

Ion Ratio Lower Upper

91 100

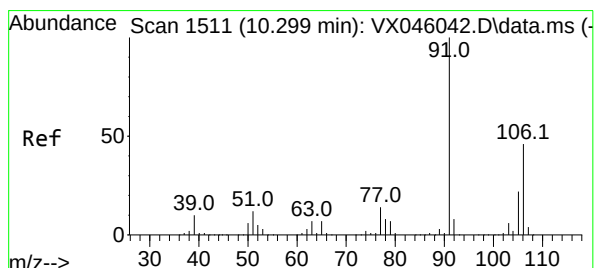
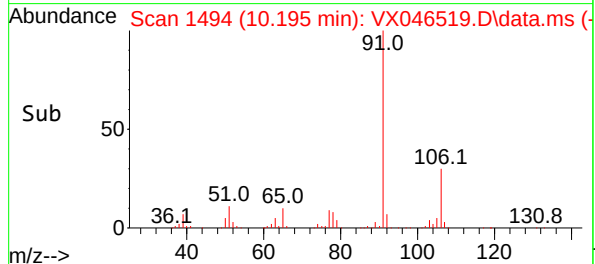
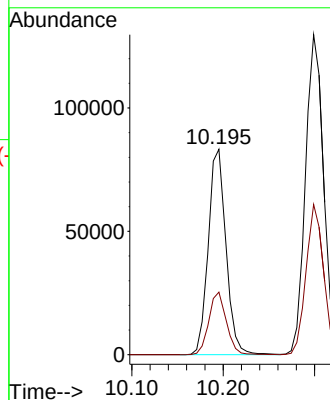
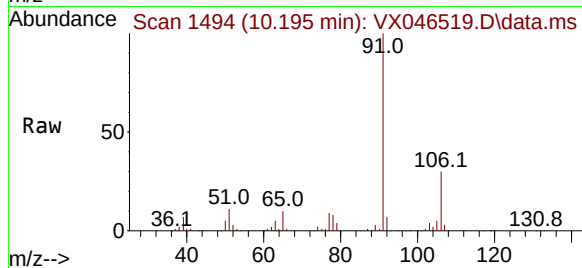
106 30.4 23.4 35.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#68

m/p-Xylenes

Concen: 40.272 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX046519.D

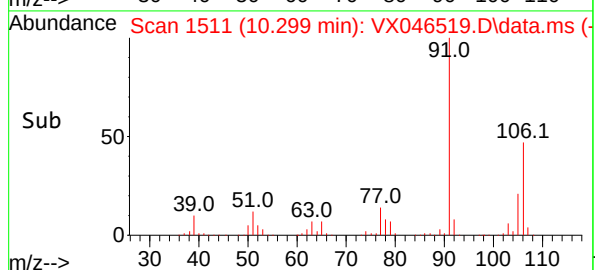
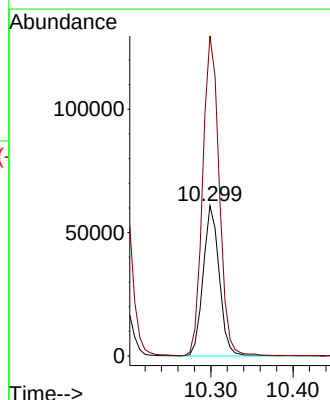
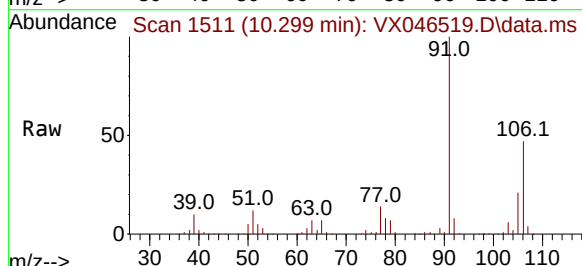
Acq: 06 Jun 2025 10:18

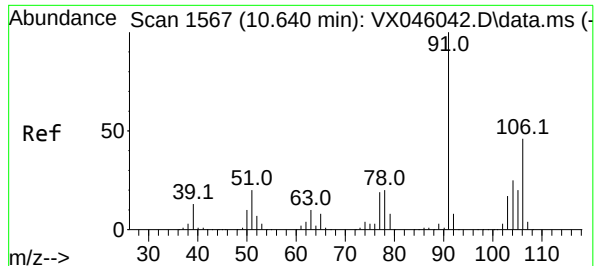
Tgt Ion:106 Resp: 82876

Ion Ratio Lower Upper

106 100

91 218.4 171.2 256.8





#69

o-Xylene

Concen: 20.304 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:106 Resp: 4041

Ion Ratio Lower Upper

106 100

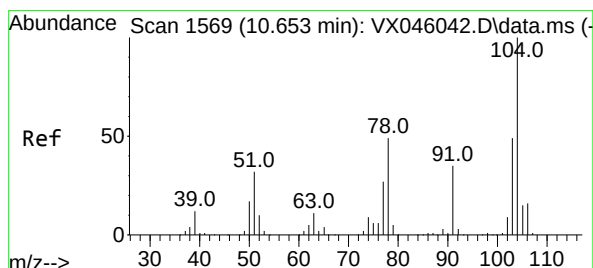
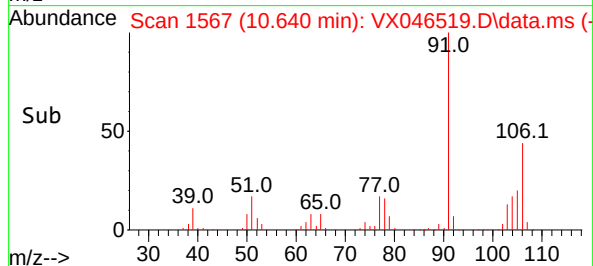
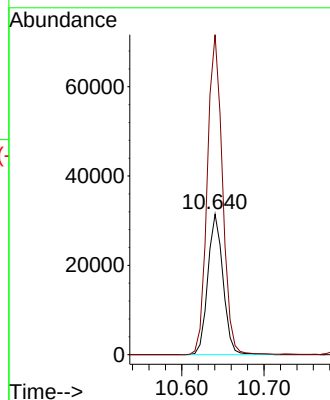
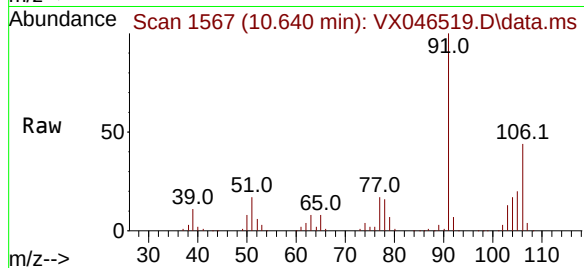
91 227.7 112.7 338.1

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#70

Styrene

Concen: 20.388 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

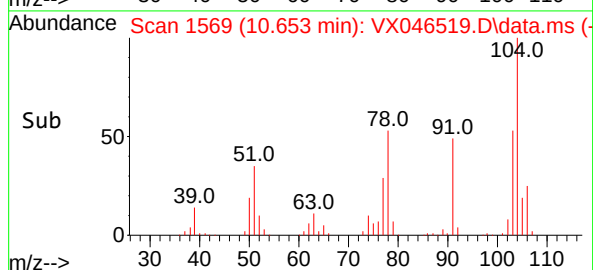
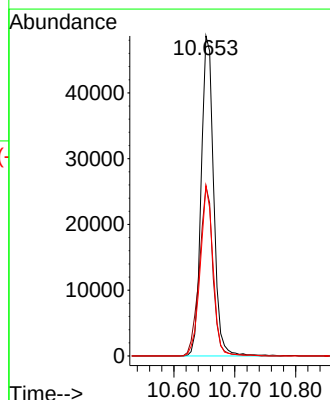
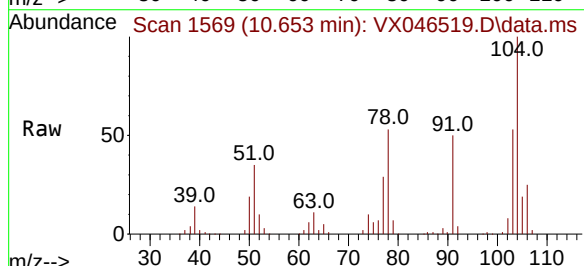
Tgt Ion:104 Resp: 69469

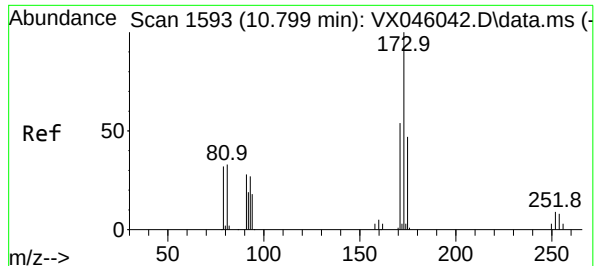
Ion Ratio Lower Upper

104 100

78 57.6 45.7 68.5

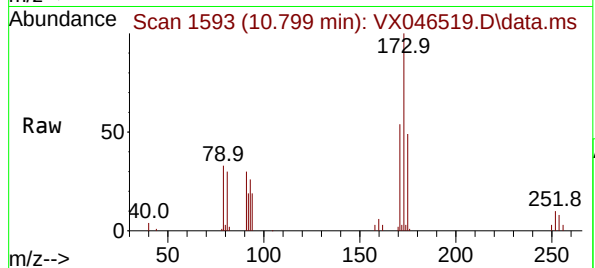
103 54.7 43.7 65.5





#71
Bromoform
Concen: 19.817 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

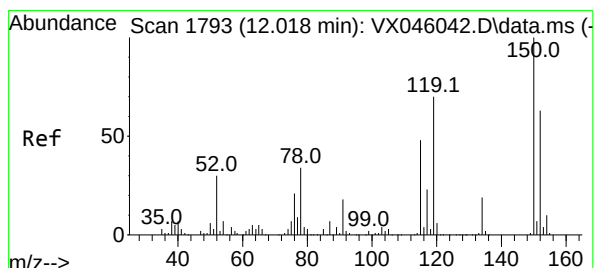
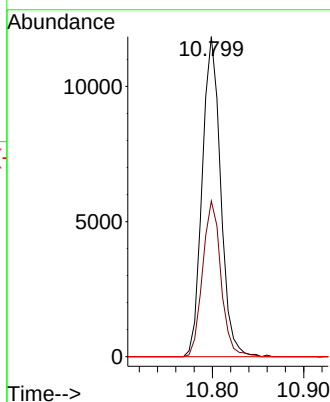
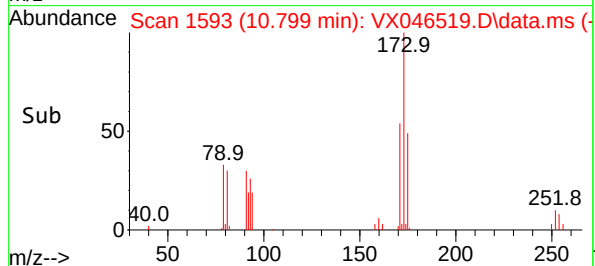
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:173 Resp: 1659
Ion Ratio Lower Upper
173 100
175 48.5 23.4 70.0
254 0.0 0.0 0.0

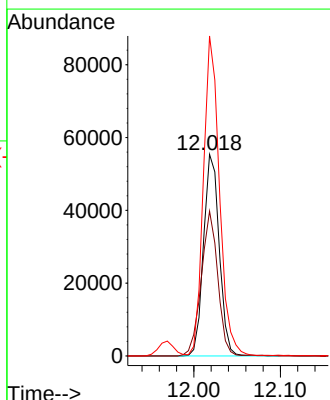
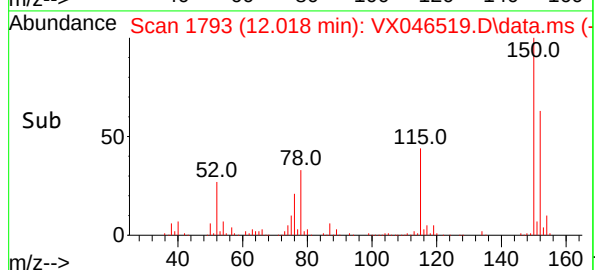
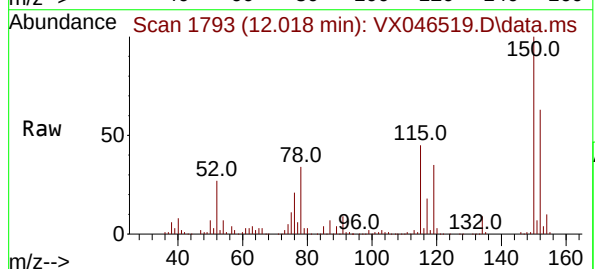
Manual Integrations
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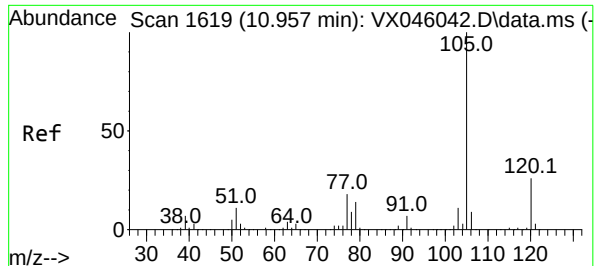
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion:152 Resp: 69785
Ion Ratio Lower Upper
152 100
115 75.7 46.9 140.7
150 161.6 0.0 351.0





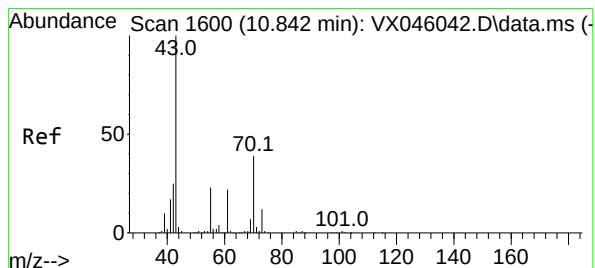
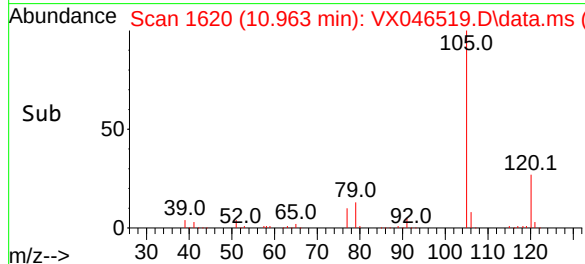
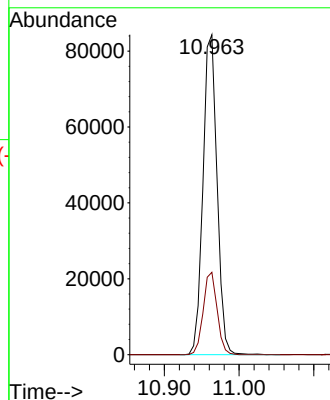
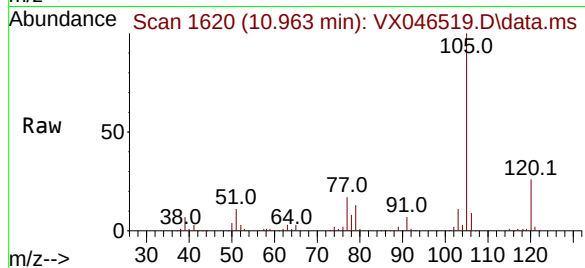
#73
Isopropylbenzene
Concen: 20.092 ug/l
RT: 10.963 min Scan# 11022
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 11022
Ion Ratio Lower Upper
105 100
120 25.4 12.8 38.4

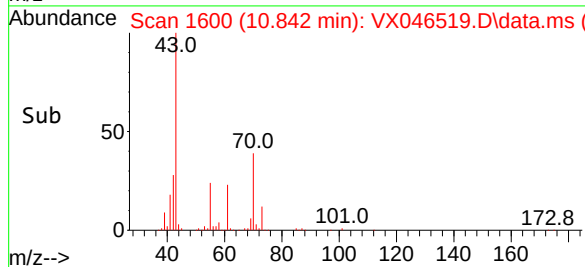
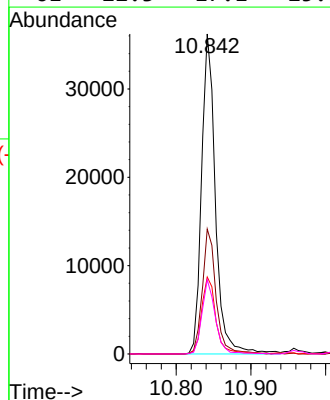
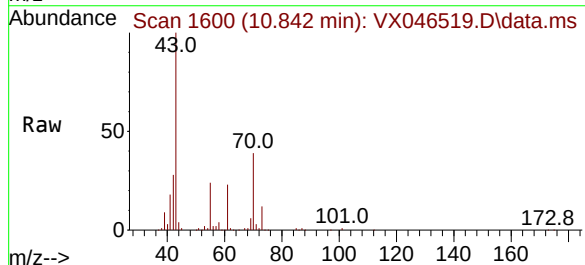
Manual Integrations
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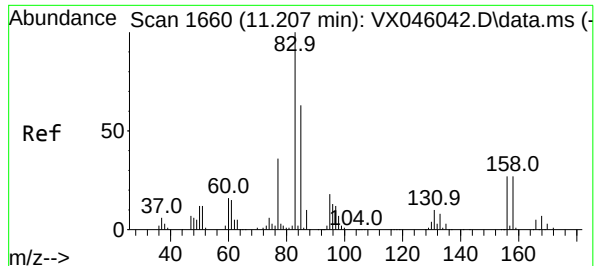
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#74
N-ethyl acetate
Concen: 19.334 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

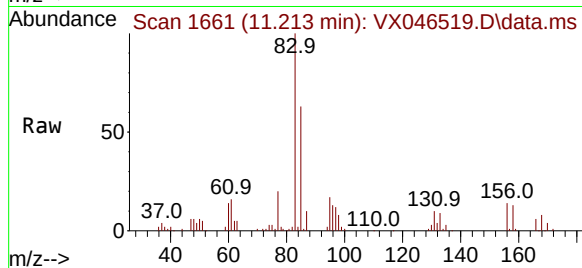
Tgt Ion: 43 Resp: 46707
Ion Ratio Lower Upper
43 100
70 38.5 30.9 46.3
55 24.7 18.7 28.1
61 22.3 17.1 25.7





#75
1,1,2,2-Tetrachloroethane
Concen: 20.568 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

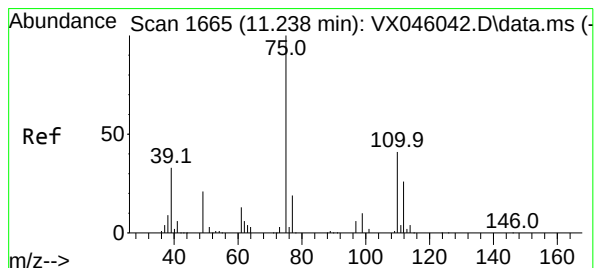
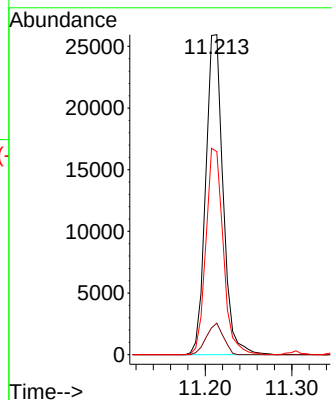
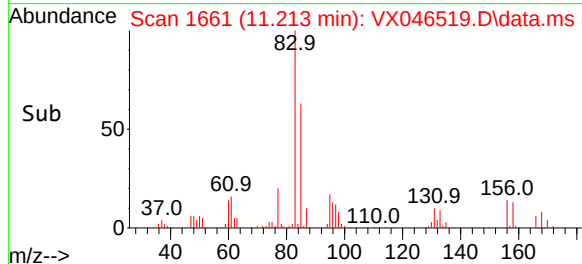
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 83 Resp: 36110
Ion Ratio Lower Upper
83 100
131 9.6 5.0 14.9
85 64.3 31.9 95.7

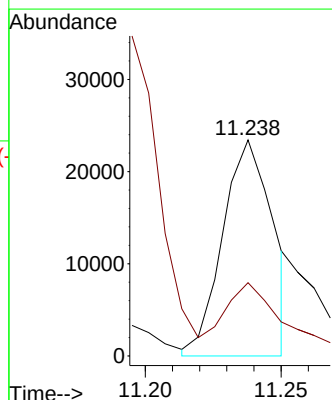
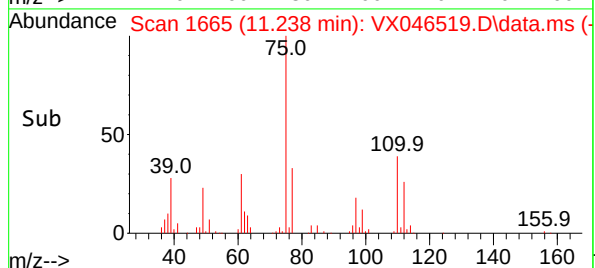
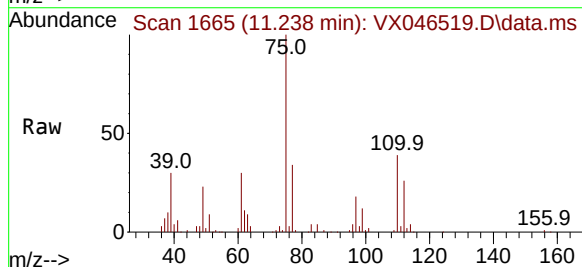
Manual Integrations
APPROVED

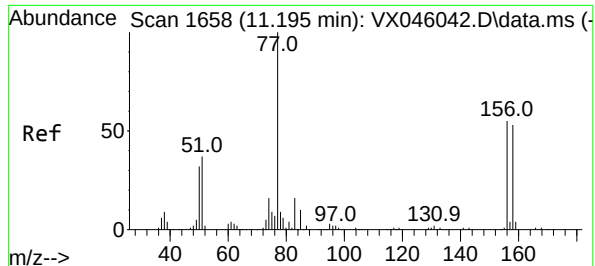
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#76
1,2,3-Trichloropropane
Concen: 19.991 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

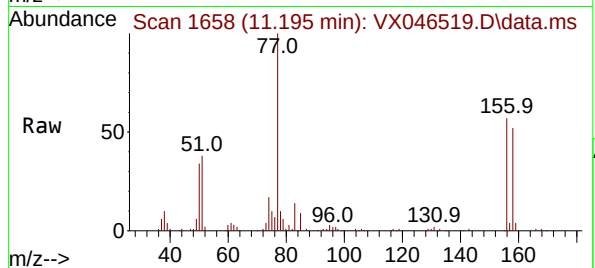
Tgt Ion: 75 Resp: 30039
Ion Ratio Lower Upper
75 100
77 41.8 20.5 61.5





#77
Bromobenzene
Concen: 20.283 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

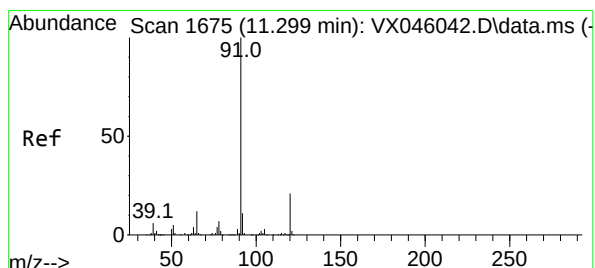
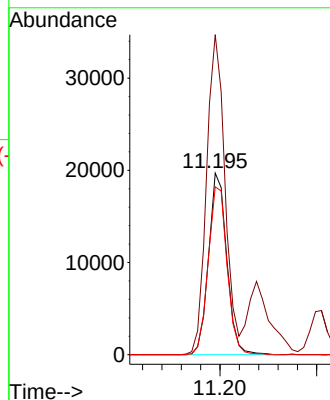
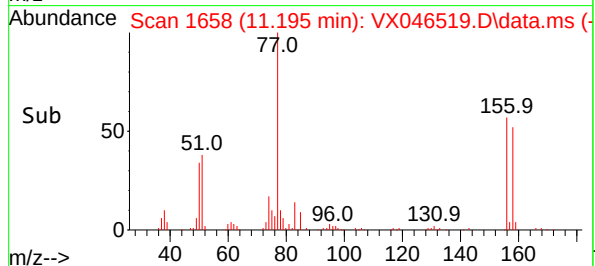
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



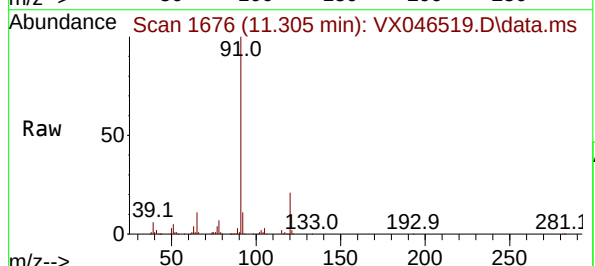
Tgt Ion:156 Resp: 2582
Ion Ratio Lower Upper
156 100
77 177.8 92.8 278.3
158 95.7 48.8 146.3

Manual Integrations
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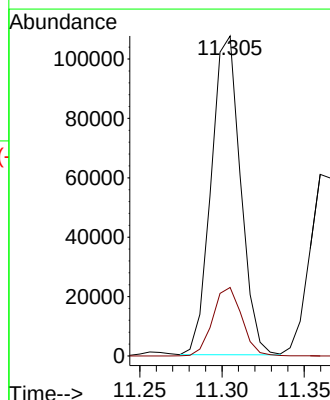
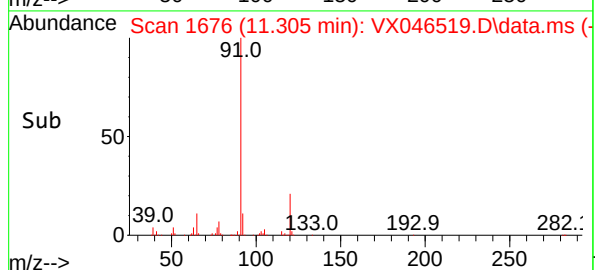
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

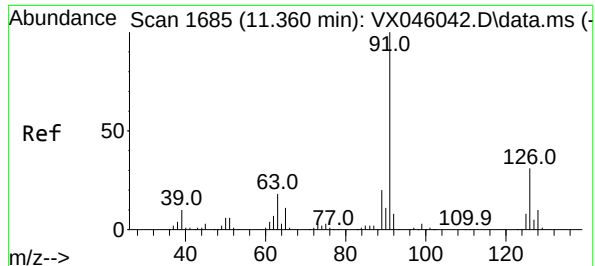


#78
n-propylbenzene
Concen: 20.075 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18



Tgt Ion: 91 Resp: 133297
Ion Ratio Lower Upper
91 100
120 21.4 10.8 32.4





#79

2-Chlorotoluene

Concen: 20.005 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 8010

Ion Ratio Lower Upper

91 100

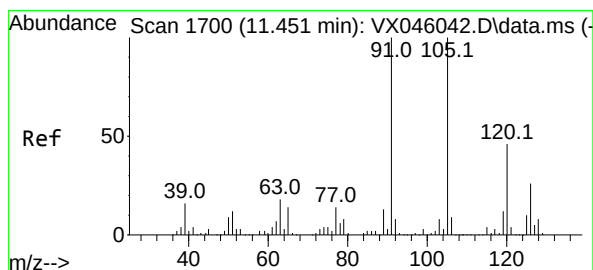
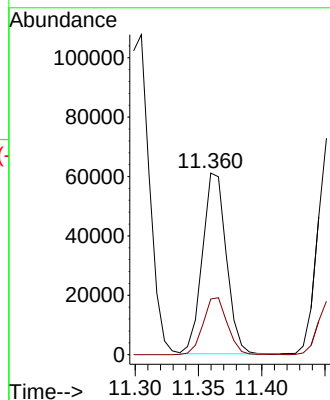
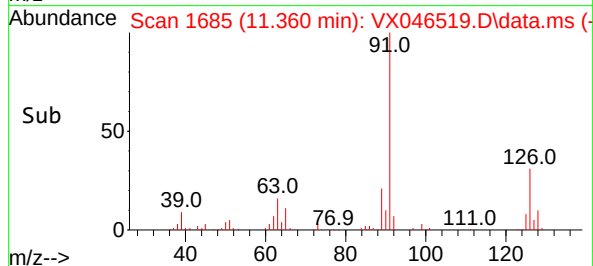
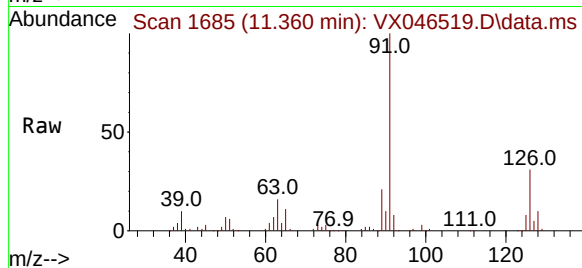
126 32.0 15.6 46.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#80

1,3,5-Trimethylbenzene

Concen: 20.131 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046519.D

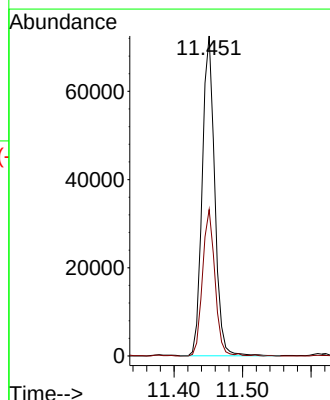
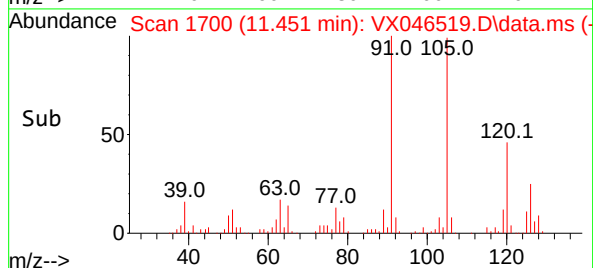
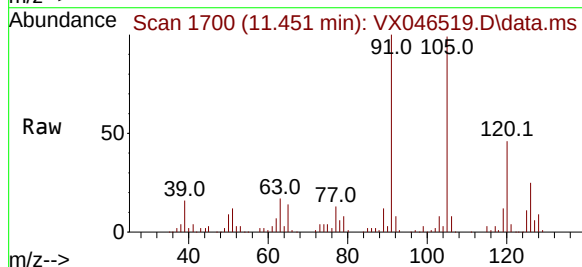
Acq: 06 Jun 2025 10:18

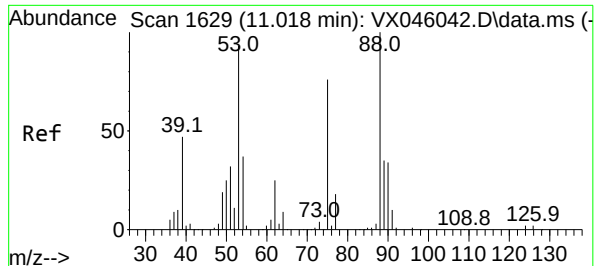
Tgt Ion:105 Resp: 92024

Ion Ratio Lower Upper

105 100

120 45.7 23.1 69.2





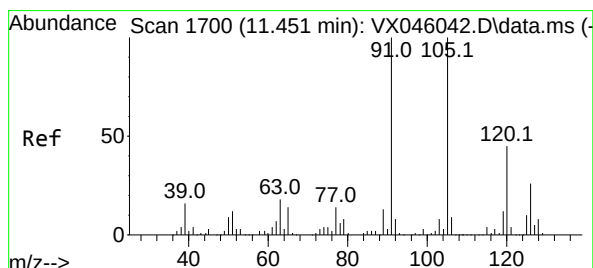
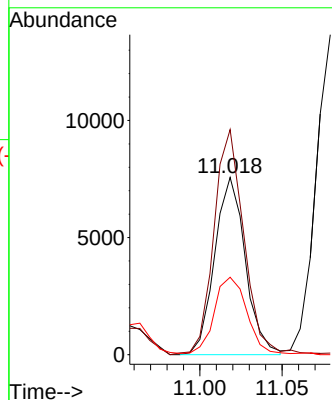
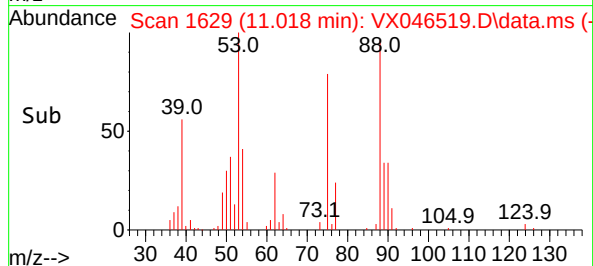
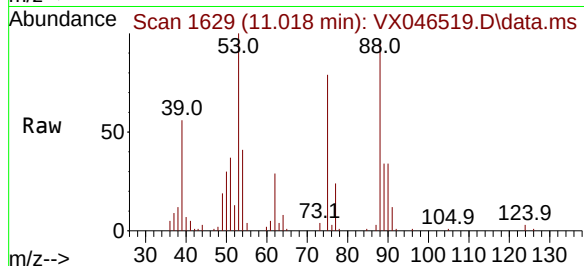
#81
trans-1,4-Dichloro-2-butene
Concen: 19.187 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 9832
Ion Ratio Lower Upper
75 100
53 124.6 100.5 150.7
89 47.2 37.0 55.6

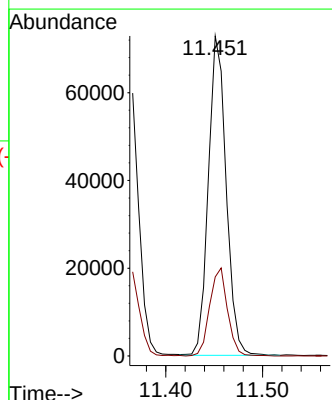
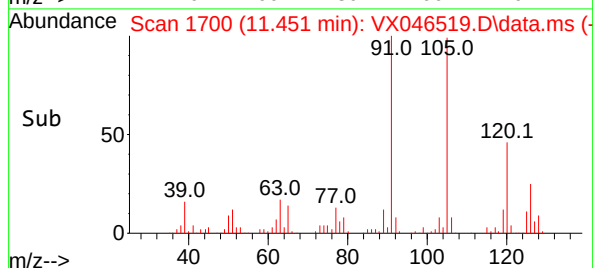
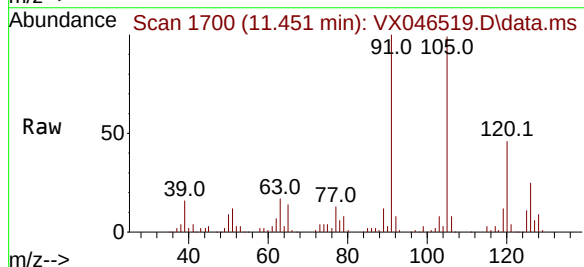
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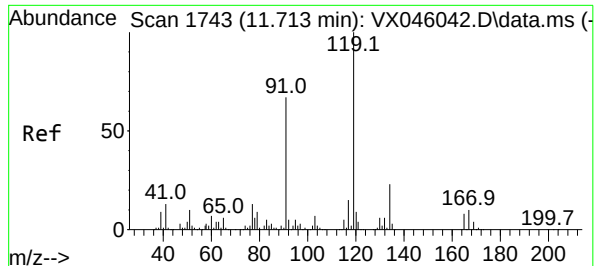
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#82
4-Chlorotoluene
Concen: 19.655 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion: 91 Resp: 93283
Ion Ratio Lower Upper
91 100
126 27.5 13.3 39.8





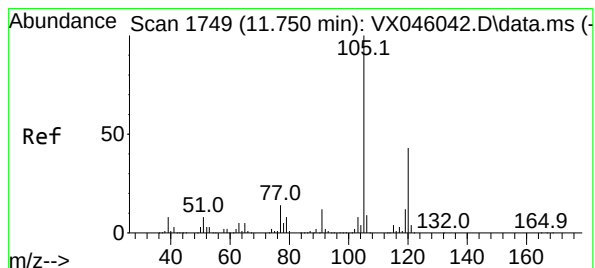
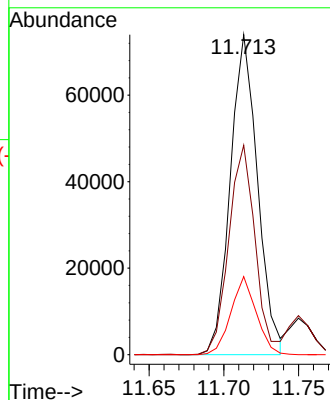
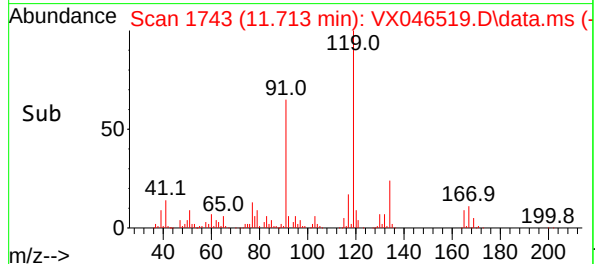
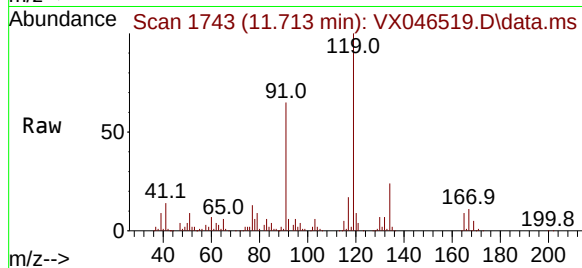
#83
tert-Butylbenzene
Concen: 20.178 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 93897
Ion Ratio Lower Upper
119 100
91 63.6 32.9 98.7
134 22.7 11.4 34.1

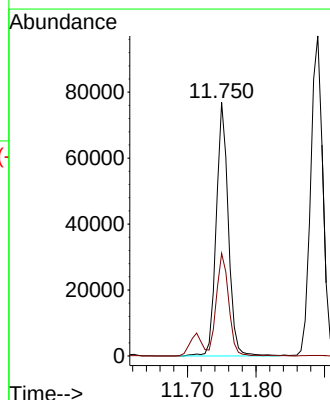
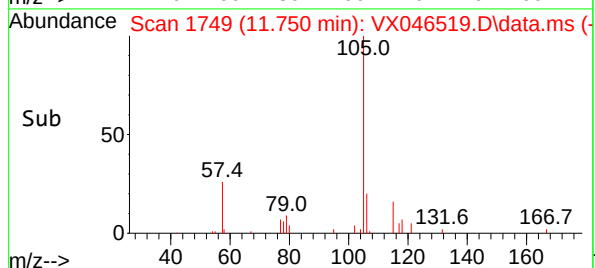
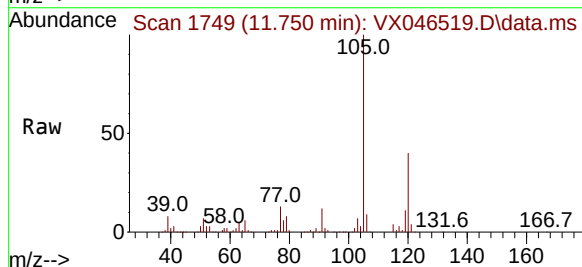
Manual Integrations
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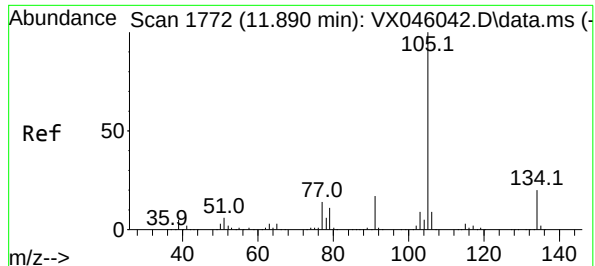
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#84
1,2,4-Trimethylbenzene
Concen: 20.279 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion:105 Resp: 93782
Ion Ratio Lower Upper
105 100
120 41.1 21.2 63.6





#85

sec-Butylbenzene

Concen: 20.054 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion:105 Resp: 119909

Ion Ratio Lower Upper

105 100

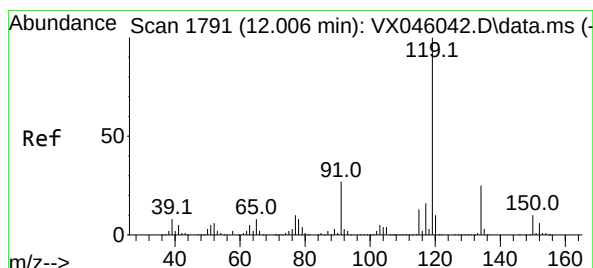
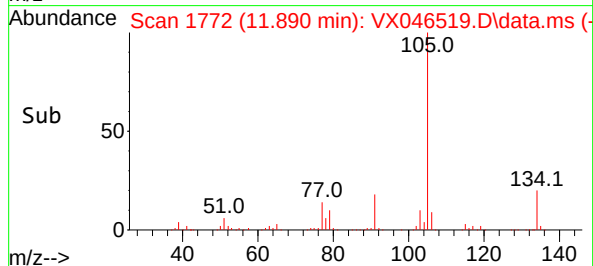
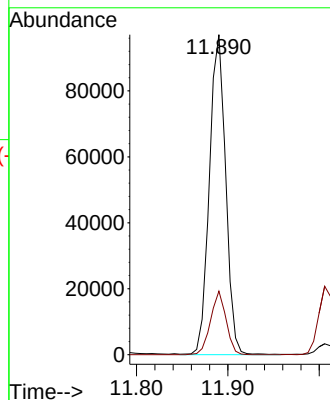
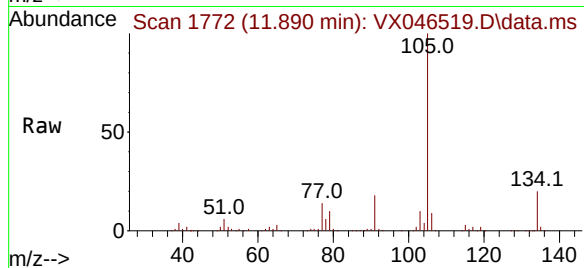
134 18.8 9.7 29.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#86

p-Isopropyltoluene

Concen: 19.900 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

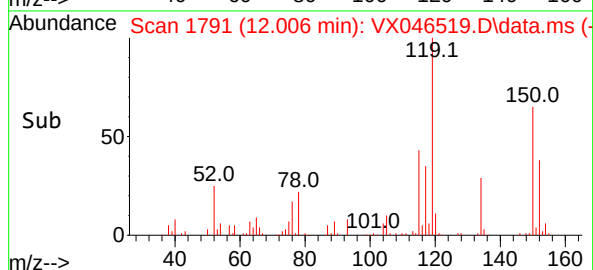
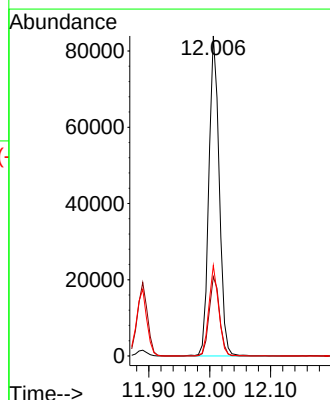
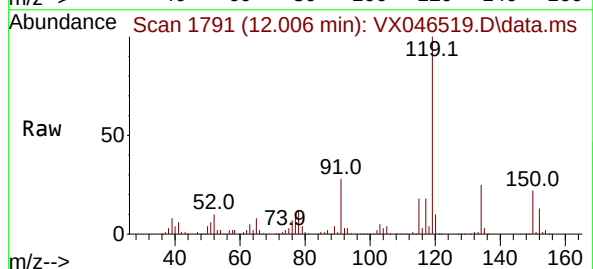
Tgt Ion:119 Resp: 99196

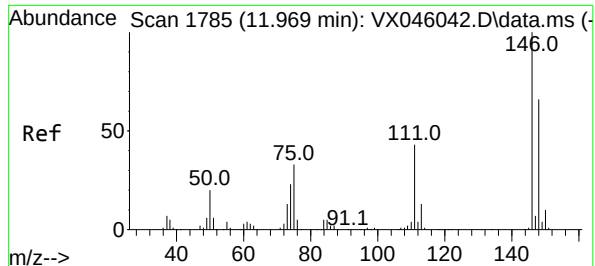
Ion Ratio Lower Upper

119 100

134 24.8 12.5 37.5

91 26.8 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 19.349 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:146 Resp: 4784

Ion Ratio Lower Upper

146 100

111 44.4 22.1 66.3

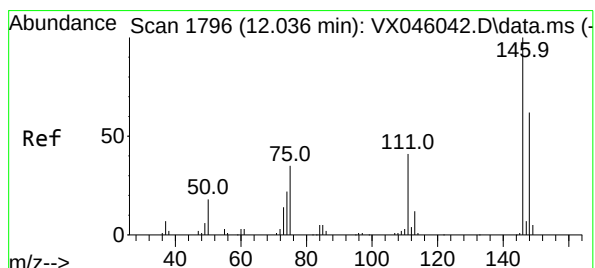
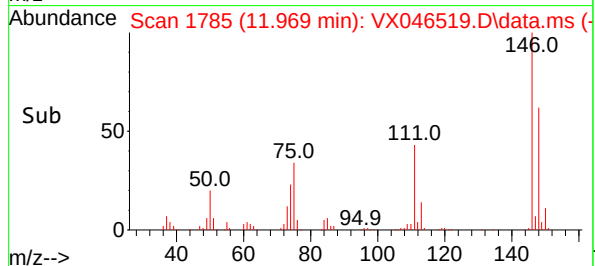
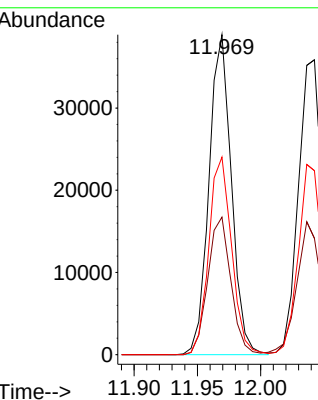
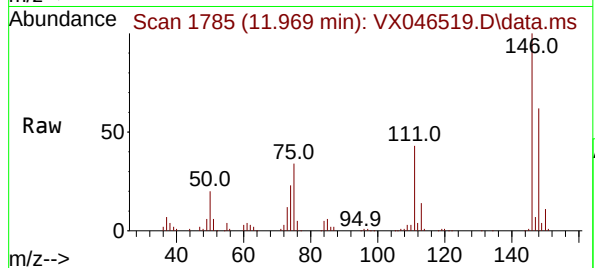
148 63.1 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 18.912 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

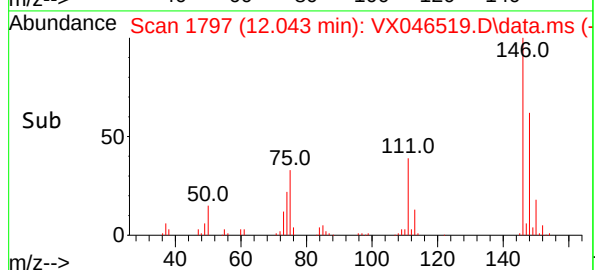
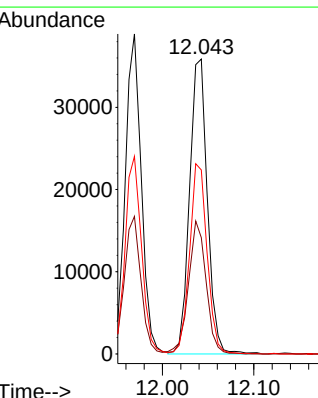
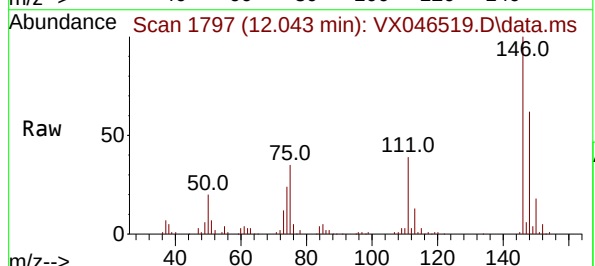
Tgt Ion:146 Resp: 48453

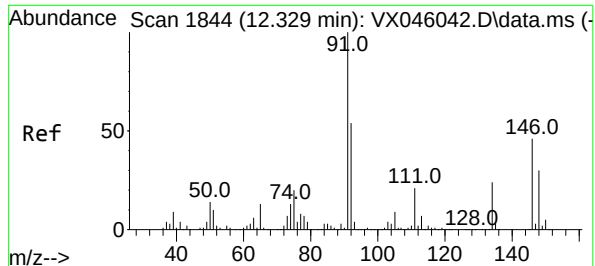
Ion Ratio Lower Upper

146 100

111 44.7 21.3 63.9

148 63.7 31.9 95.5





#89

n-Butylbenzene

Concen: 19.263 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

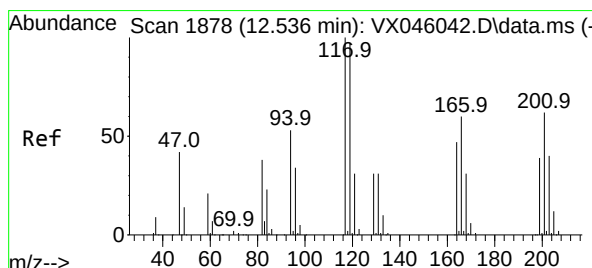
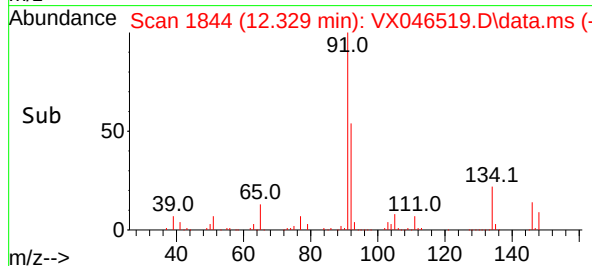
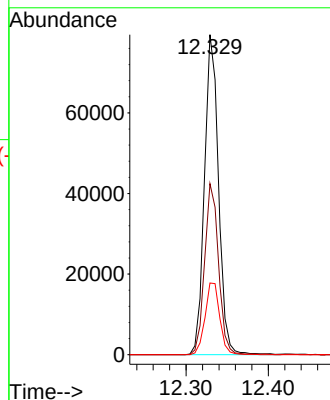
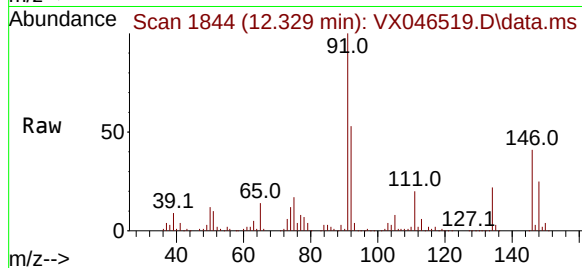
ClientSampleId :

VSTDIC020

Tgt Ion: 91	Resp: 9429
Ion Ratio	Lower Upper
91	100
92	53.1 26.9 80.7
134	23.5 11.8 35.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 18.972 ug/l

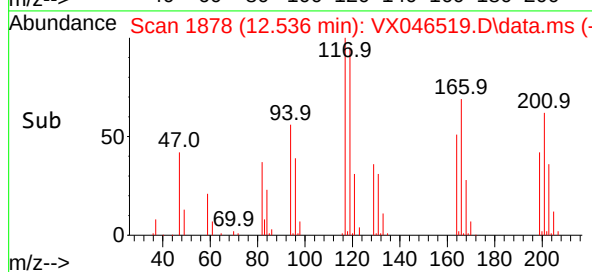
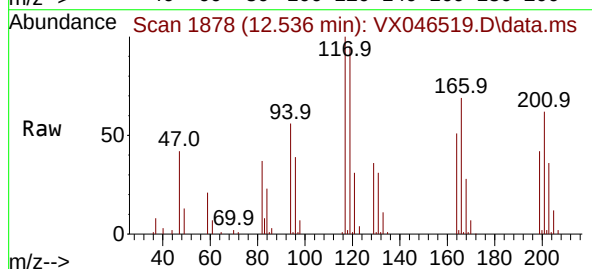
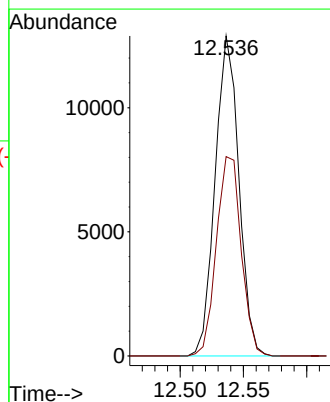
RT: 12.536 min Scan# 1878

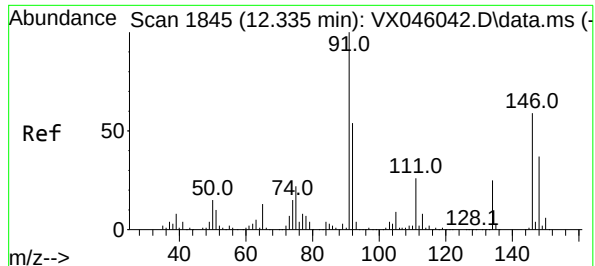
Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

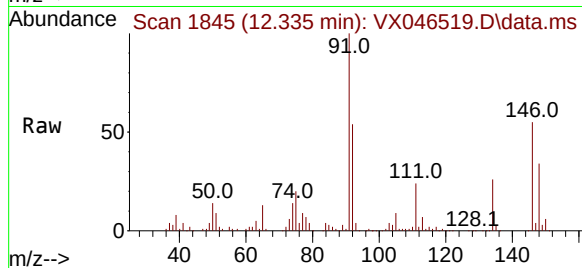
Tgt Ion: 117	Resp: 16809
Ion Ratio	Lower Upper
117	100
201	65.1 31.6 94.7





#91
1,2-Dichlorobenzene
Concen: 19.801 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

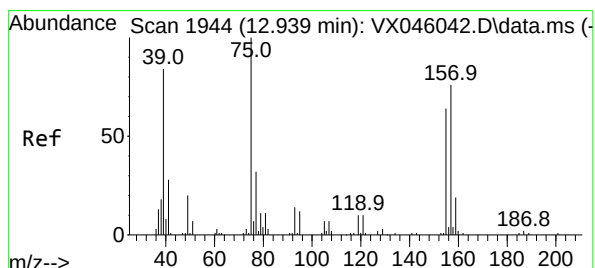
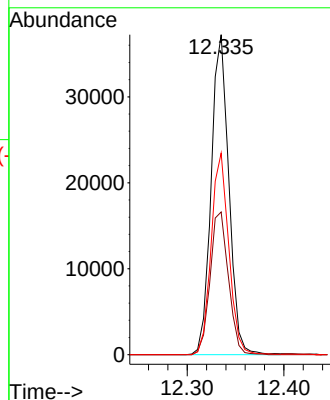
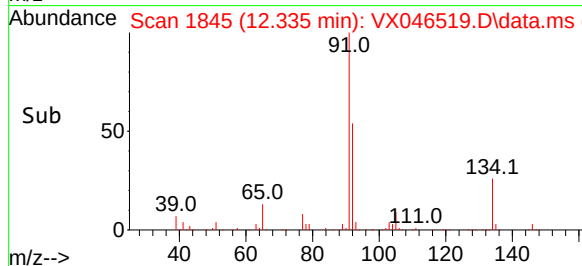
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:146 Resp: 4725
Ion Ratio Lower Upper
146 100
111 46.3 22.4 67.3
148 63.0 31.6 94.8

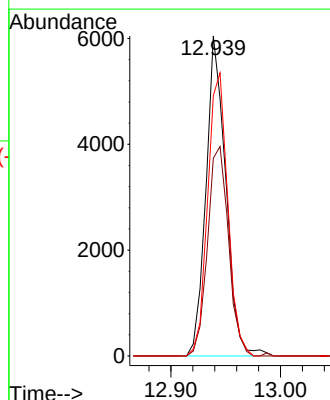
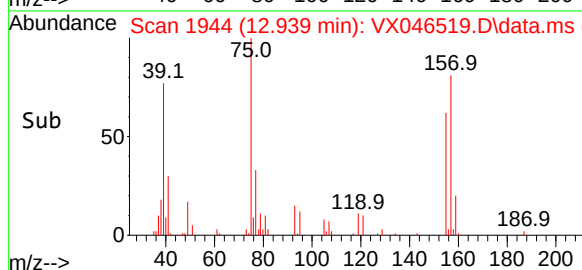
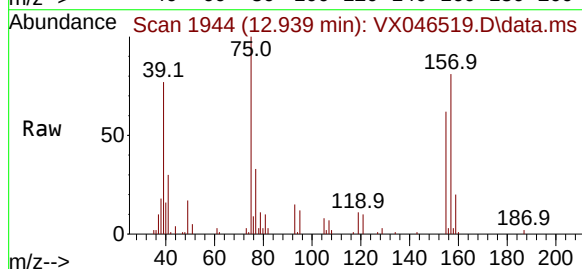
Manual Integrations
APPROVED

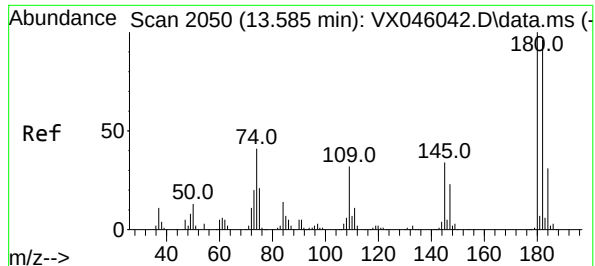
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 19.293 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion: 75 Resp: 7586
Ion Ratio Lower Upper
75 100
155 69.2 34.9 104.8
157 89.7 43.8 131.4





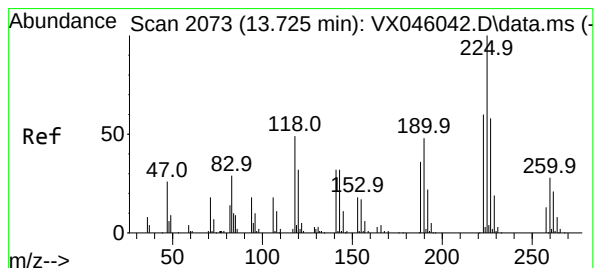
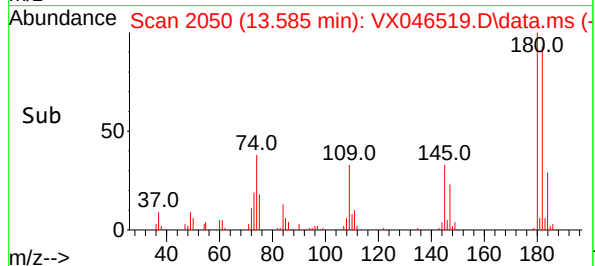
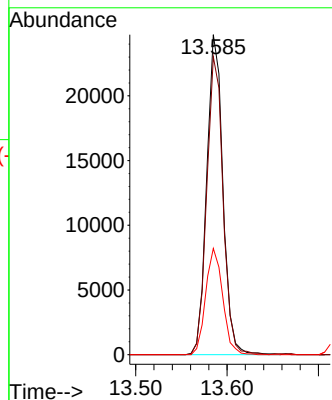
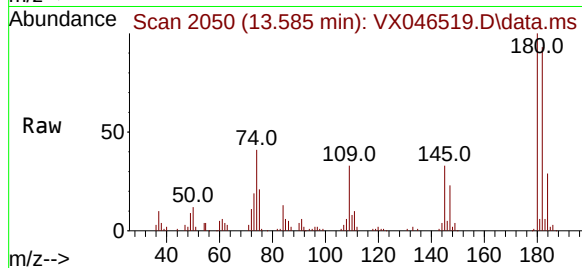
#93
1,2,4-Trichlorobenzene
Concen: 18.598 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:180 Resp: 30280
Ion Ratio Lower Upper
180 100
182 93.9 47.9 143.8
145 35.0 17.1 51.2

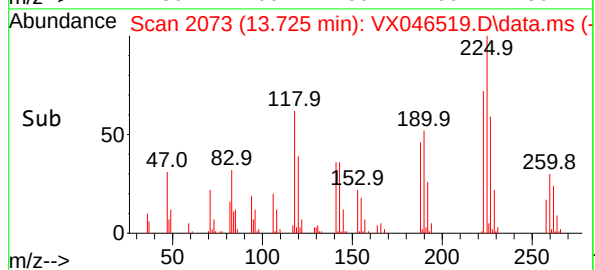
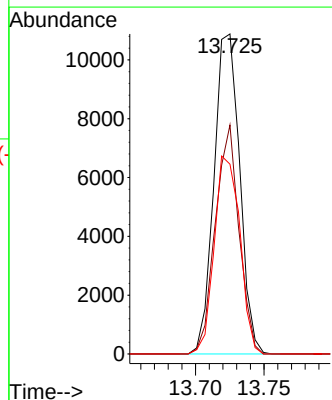
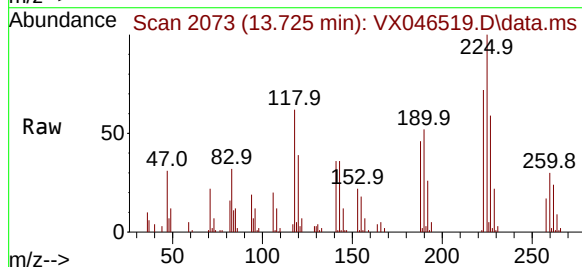
Manual Integrations
APPROVED

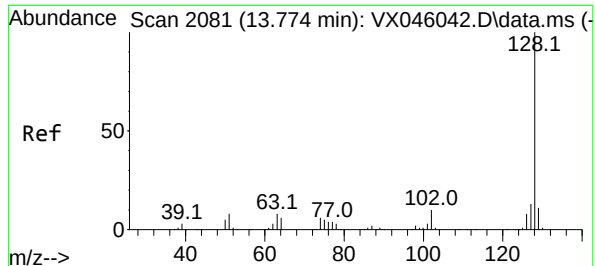
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#94
Hexachlorobutadiene
Concen: 18.746 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

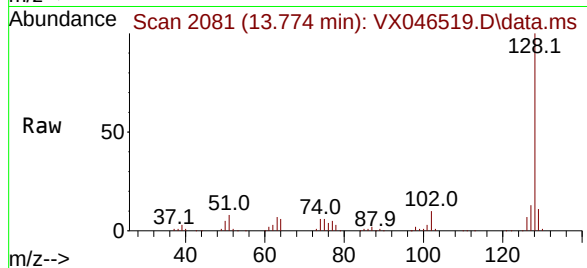
Tgt Ion:225 Resp: 14184
Ion Ratio Lower Upper
225 100
223 66.0 30.8 92.4
227 61.6 30.9 92.7





#95
Naphthalene
Concen: 19.071 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

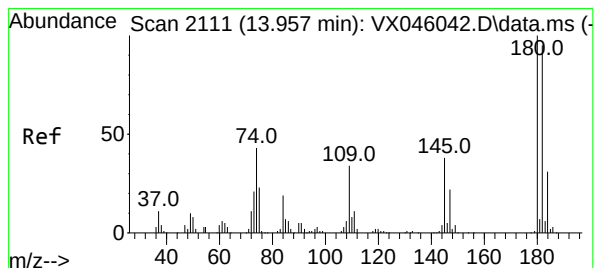
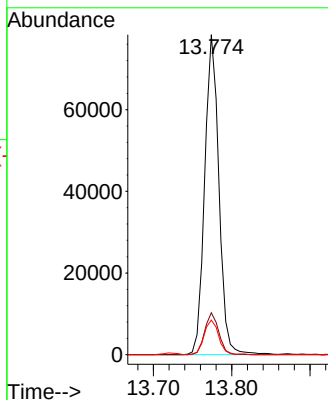
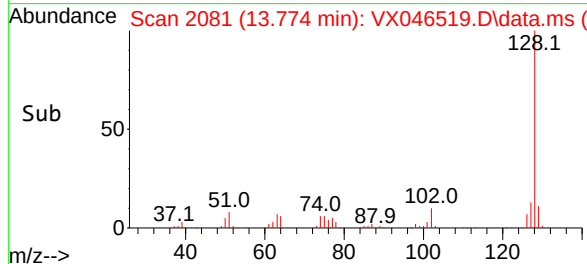
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



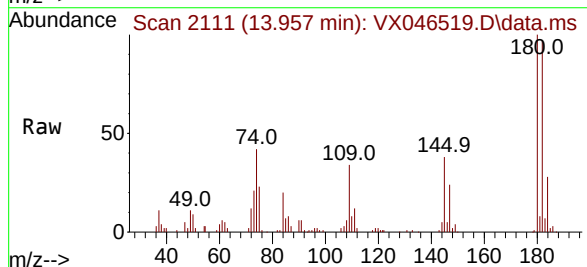
Tgt Ion:128 Resp: 98460
Ion Ratio Lower Upper
128 100
127 13.0 10.4 15.6
129 11.1 8.6 13.0

Manual Integrations
APPROVED

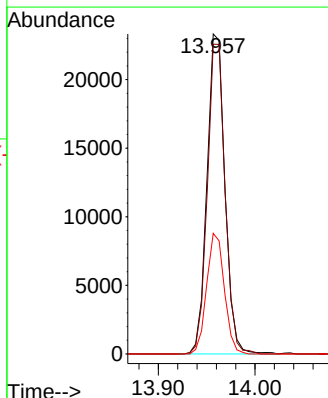
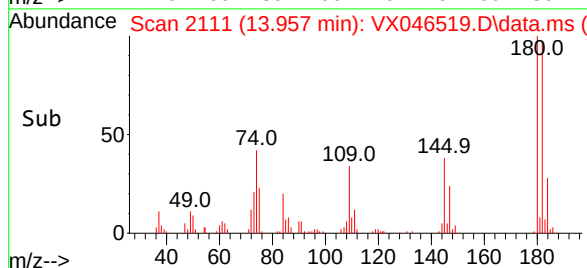
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.437 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18



Tgt Ion:180 Resp: 30099
Ion Ratio Lower Upper
180 100
182 96.0 47.8 143.3
145 37.2 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046520.D
 Acq On : 06 Jun 2025 10:40
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:41:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.568	168	90114	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	156192	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	136564	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	68831	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.970	65	78706	49.092	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.180%
35) Dibromofluoromethane	5.403	113	57416	49.986	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.980%
50) Toluene-d8	8.653	98	185557	49.000	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.000%
62) 4-Bromofluorobenzene	11.079	95	76988	49.137	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.280%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.185	85	58145	46.477	ug/l	95
3) Chloromethane	1.307	50	51612	45.324	ug/l	96
4) Vinyl Chloride	1.386	62	53673	47.282	ug/l	100
5) Bromomethane	1.624	94	35883	52.070	ug/l	96
6) Chloroethane	1.703	64	33654	45.694	ug/l	96
7) Trichlorofluoromethane	1.904	101	92019	48.994	ug/l	95
8) Diethyl Ether	2.154	74	32101	48.374	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.349	101	57448	48.549	ug/l	98
10) Methyl Iodide	2.471	142	64524	50.302	ug/l	100
11) Tert butyl alcohol	2.971	59	44039	247.552	ug/l	100
12) 1,1-Dichloroethene	2.337	96	51110	47.772	ug/l	99
13) Acrolein	2.251	56	50652	237.168	ug/l	98
14) Allyl chloride	2.684	41	101836	48.466	ug/l	96
15) Acrylonitrile	3.081	53	170615	253.656	ug/l	99
16) Acetone	2.392	43	153142	243.373	ug/l	100
17) Carbon Disulfide	2.532	76	109794	48.339	ug/l	100
18) Methyl Acetate	2.721	43	101867	53.343	ug/l	100
19) Methyl tert-butyl Ether	3.135	73	190602	50.914	ug/l	99
20) Methylene Chloride	2.806	84	59622	46.355	ug/l	94
21) trans-1,2-Dichloroethene	3.111	96	52474	46.346	ug/l	95
22) Diisopropyl ether	3.782	45	211118	50.963	ug/l #	80
23) Vinyl Acetate	3.739	43	823688	257.541	ug/l	100
24) 1,1-Dichloroethane	3.629	63	113435	49.132	ug/l	97
25) 2-Butanone	4.574	43	226668	253.975	ug/l	98
26) 2,2-Dichloropropane	4.495	77	87040	50.783	ug/l	100
27) cis-1,2-Dichloroethene	4.507	96	66760	47.898	ug/l	99
28) Bromochloromethane	4.916	49	53158	48.273	ug/l	100
29) Tetrahydrofuran	5.019	42	142276	252.427	ug/l	99
30) Chloroform	5.111	83	118738	49.084	ug/l	99
31) Cyclohexane	5.489	56	89669	48.110	ug/l	99
32) 1,1,1-Trichloroethane	5.397	97	102837	49.696	ug/l	98
36) 1,1-Dichloropropene	5.714	75	75745	46.165	ug/l	99
37) Ethyl Acetate	4.733	43	86522	54.042	ug/l	98
38) Carbon Tetrachloride	5.696	117	88063	47.920	ug/l	99
39) Methylcyclohexane	7.391	83	89357	46.141	ug/l	97
40) Benzene	6.056	78	222898	48.257	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046520.D
 Acq On : 06 Jun 2025 10:40
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Quant Time: Jun 06 16:41:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.934	41	50437	50.720	ug/l	96
42) 1,2-Dichloroethane	6.098	62	95292	49.590	ug/l	99
43) Isopropyl Acetate	6.354	43	144198	51.653	ug/l	99
44) Trichloroethene	7.135	130	54791	46.686	ug/l	98
45) 1,2-Dichloropropane	7.440	63	59497	49.904	ug/l	99
46) Dibromomethane	7.586	93	43598	48.609	ug/l	98
47) Bromodichloromethane	7.830	83	94149	51.052	ug/l	98
48) Methyl methacrylate	7.702	41	75100	52.285	ug/l	97
49) 1,4-Dioxane	7.671	88	19805	1031.079	ug/l	98
51) 4-Methyl-2-Pentanone	8.573	43	462924	260.948	ug/l	100
52) Toluene	8.720	92	138129	48.677	ug/l	99
53) t-1,3-Dichloropropene	8.982	75	84697	51.223	ug/l	100
54) cis-1,3-Dichloropropene	8.372	75	92087	50.089	ug/l	91
55) 1,1,2-Trichloroethane	9.153	97	57143	50.162	ug/l	97
56) Ethyl methacrylate	9.116	69	91058	51.943	ug/l	97
57) 1,3-Dichloropropane	9.311	76	99273	49.312	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.244	63	246532	258.184	ug/l	100
59) 2-Hexanone	9.433	43	333019	261.746	ug/l	99
60) Dibromochloromethane	9.525	129	67410	50.307	ug/l	99
61) 1,2-Dibromoethane	9.610	107	57774	48.669	ug/l	98
64) Tetrachloroethene	9.275	164	42288	46.308	ug/l	96
65) Chlorobenzene	10.079	112	153710	47.857	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.165	131	54990	50.666	ug/l	99
67) Ethyl Benzene	10.195	91	275626	49.157	ug/l	100
68) m/p-Xylenes	10.299	106	201325	98.982	ug/l	99
69) o-Xylene	10.640	106	97769	49.696	ug/l	97
70) Styrene	10.658	104	171642	50.968	ug/l	99
71) Bromoform	10.799	173	42521	51.382	ug/l #	98
73) Isopropylbenzene	10.963	105	269074	49.729	ug/l	99
74) N-amyl acetate	10.841	43	124077	52.072	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	86539	49.967	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	72182m	48.702	ug/l	
77) Bromobenzene	11.195	156	60653	48.295	ug/l	100
78) n-propylbenzene	11.305	91	323032	49.325	ug/l	100
79) 2-Chlorotoluene	11.366	91	191732	48.549	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	223189	49.500	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	25456	50.367	ug/l	98
82) 4-Chlorotoluene	11.451	91	226629	48.414	ug/l	99
83) tert-Butylbenzene	11.713	119	226214	49.285	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	224100	49.131	ug/l	100
85) sec-Butylbenzene	11.890	105	287196	48.696	ug/l	99
86) p-Isopropyltoluene	12.006	119	239809	48.775	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	115889	47.520	ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	115263	45.612	ug/l	99
89) n-Butylbenzene	12.329	91	230830	47.808	ug/l	99
90) Hexachloroethane	12.536	117	41969	48.027	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	112815	47.923	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19603	50.545	ug/l	94
93) 1,2,4-Trichlorobenzene	13.585	180	74109	46.149	ug/l	99
94) Hexachlorobutadiene	13.725	225	34506	46.237	ug/l	98
95) Naphthalene	13.774	128	256456	50.359	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	75172	46.684	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046520.D
Acq On : 06 Jun 2025 10:40
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:41:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:38:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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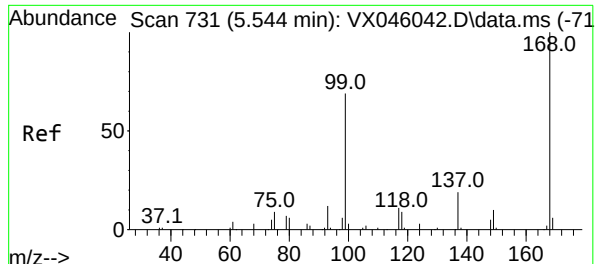
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025





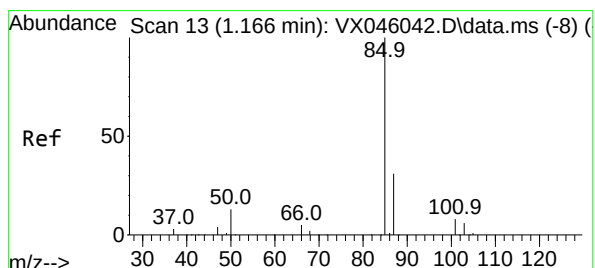
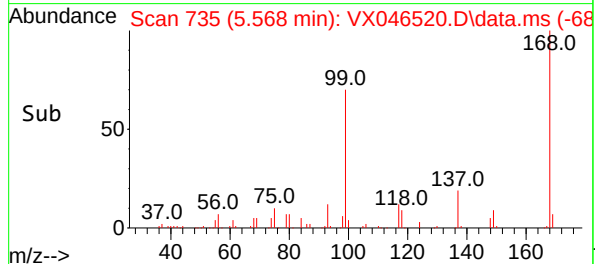
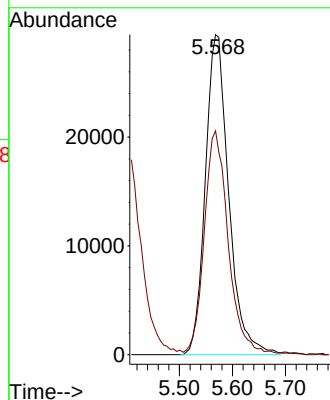
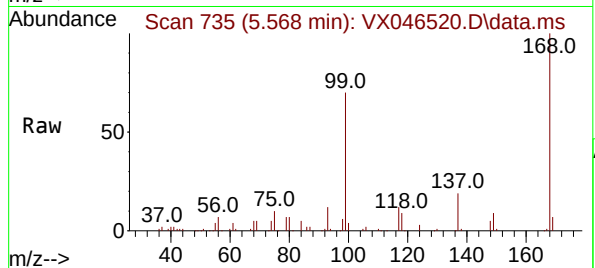
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 90114
Ion Ratio Lower Upper
168 100
99 69.4 54.9 82.3

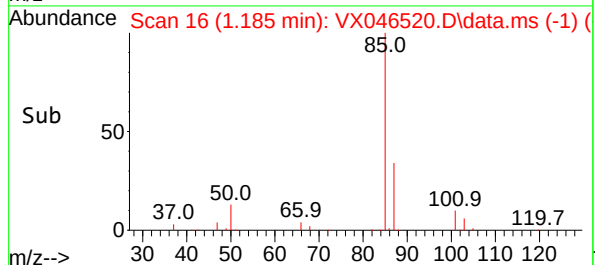
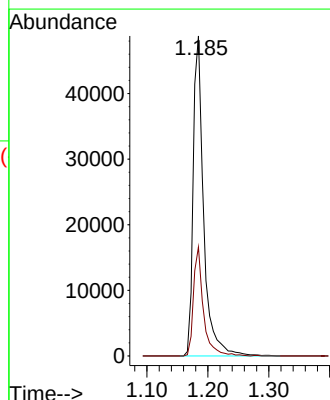
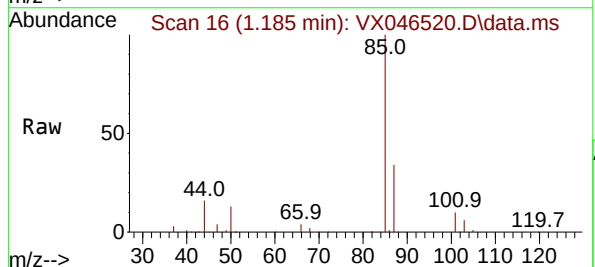
Manual Integrations
APPROVED

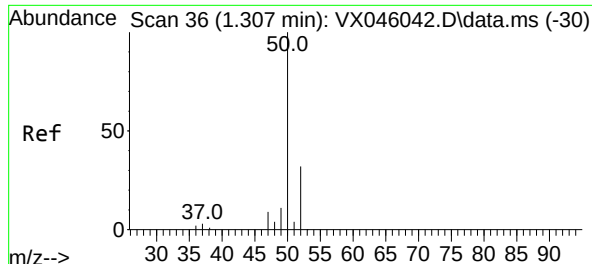
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 46.477 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 85 Resp: 58145
Ion Ratio Lower Upper
85 100
87 34.0 15.7 47.1





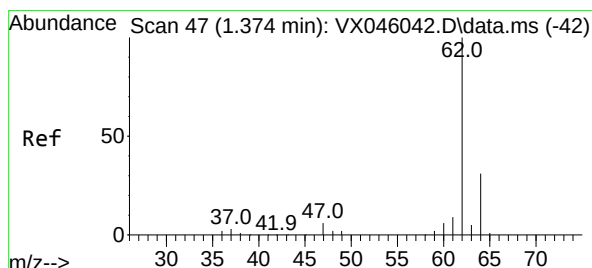
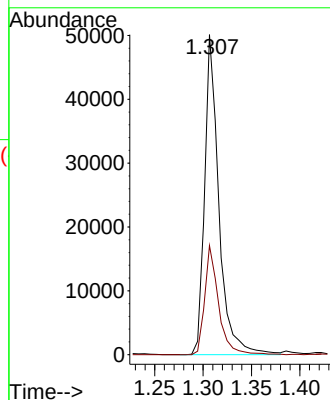
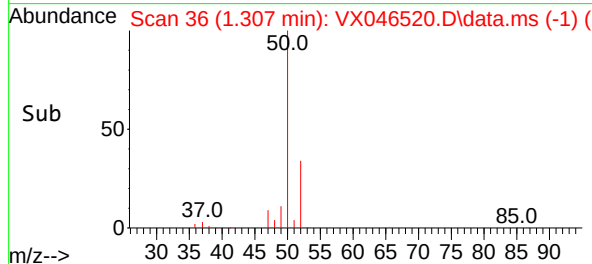
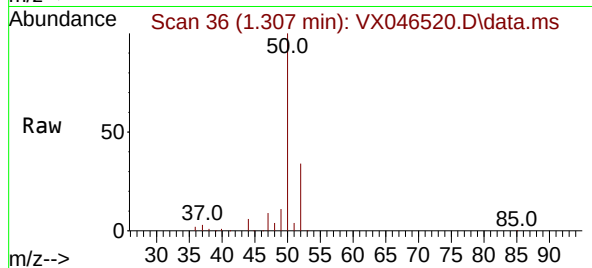
#3
Chloromethane
Concen: 45.324 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 5161
Ion Ratio Lower Upper
50 100
52 34.1 25.4 38.2

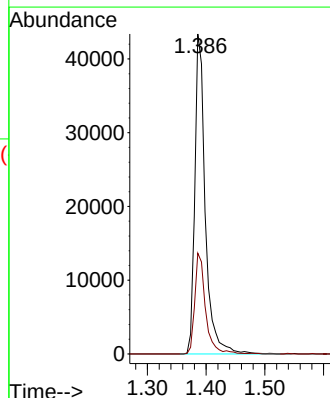
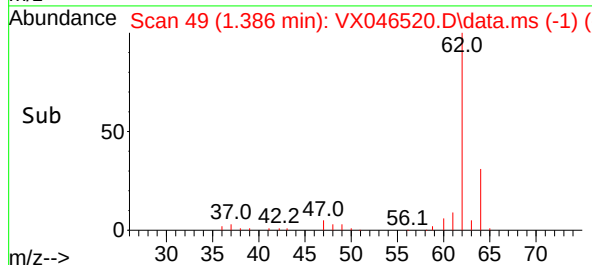
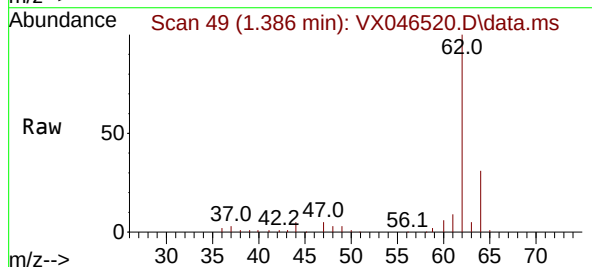
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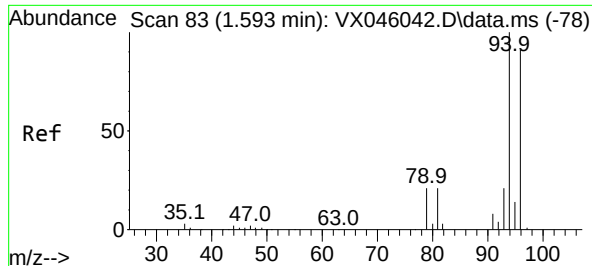
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 47.282 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 62 Resp: 53673
Ion Ratio Lower Upper
62 100
64 31.5 25.2 37.8





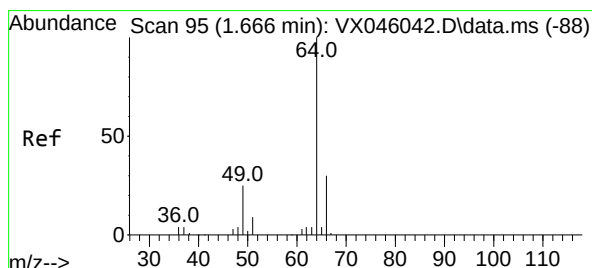
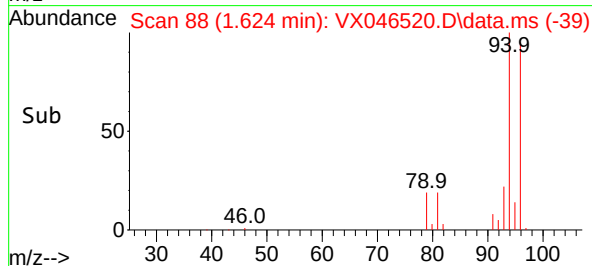
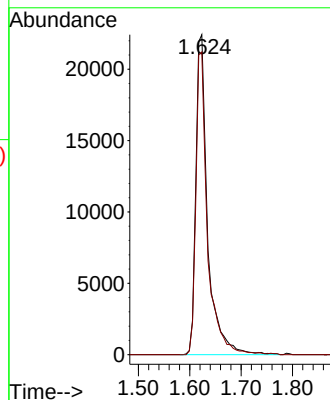
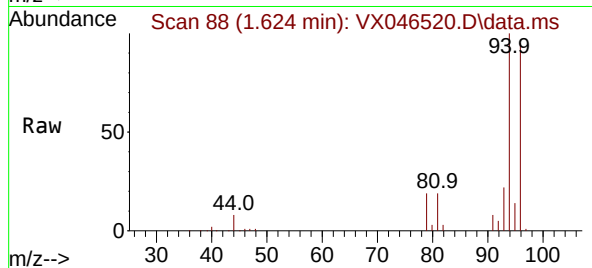
#5
Bromomethane
Concen: 52.070 ug/l
RT: 1.624 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 3588
Ion Ratio Lower Upper
94 100
96 94.6 72.8 109.2

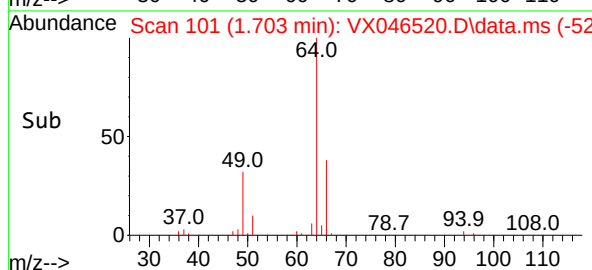
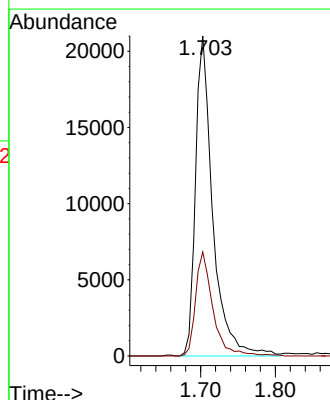
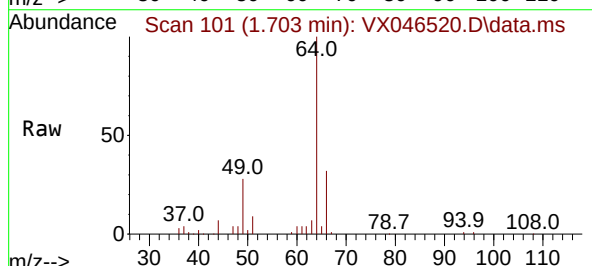
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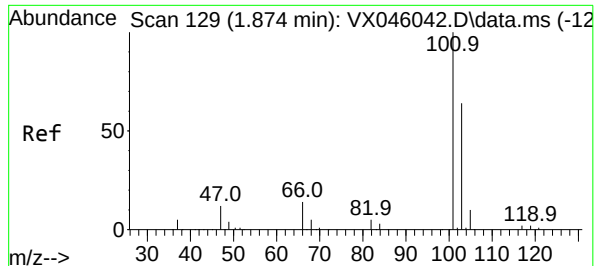
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#6
Chloroethane
Concen: 45.694 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 64 Resp: 33654
Ion Ratio Lower Upper
64 100
66 32.5 24.3 36.5





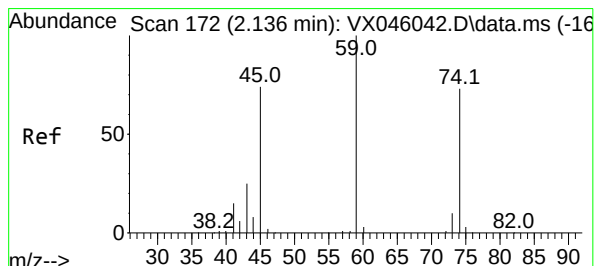
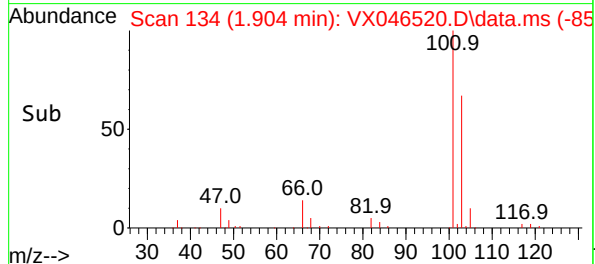
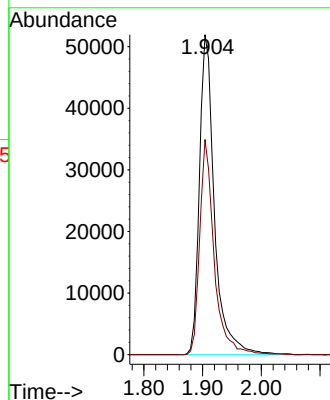
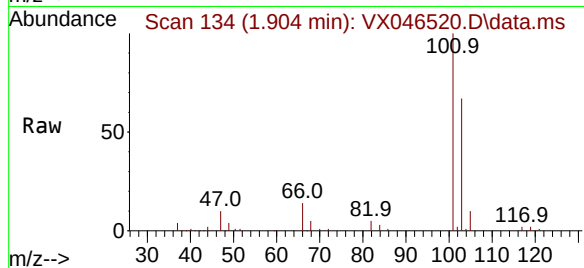
#7
Trichlorofluoromethane
Concen: 48.994 ug/l
RT: 1.904 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 92019
Ion Ratio Lower Upper
101 100
103 67.2 51.0 76.4

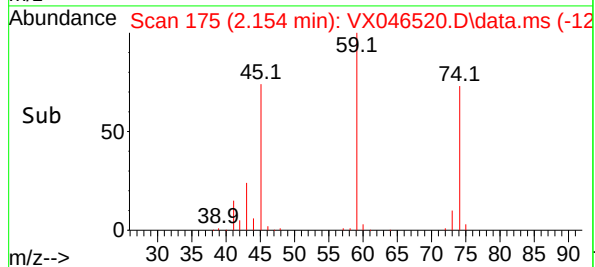
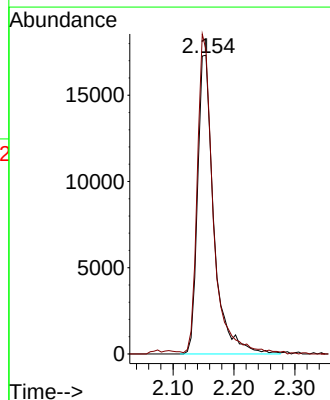
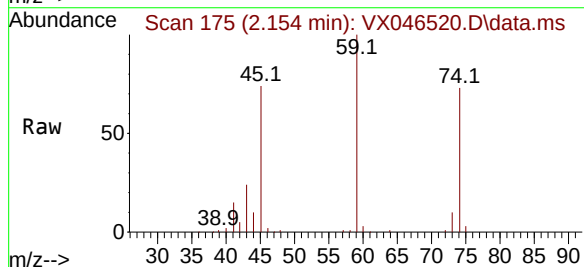
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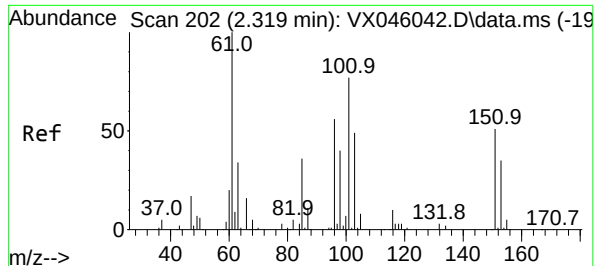
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#8
Diethyl Ether
Concen: 48.374 ug/l
RT: 2.154 min Scan# 175
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 74 Resp: 32101
Ion Ratio Lower Upper
74 100
45 103.6 54.9 164.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.549 ug/l

RT: 2.349 min Scan# 202

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

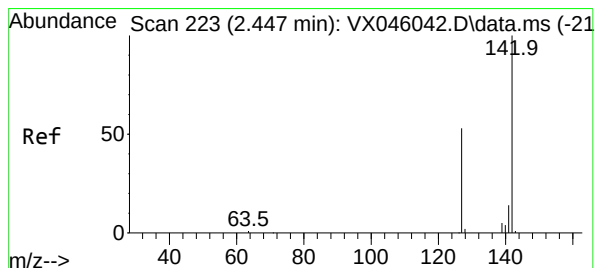
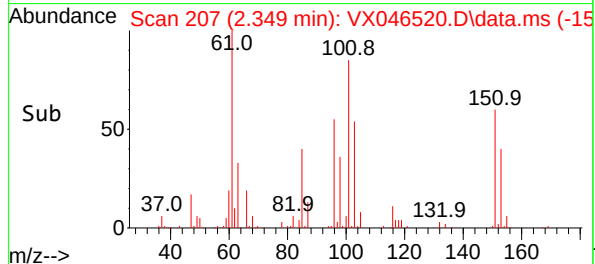
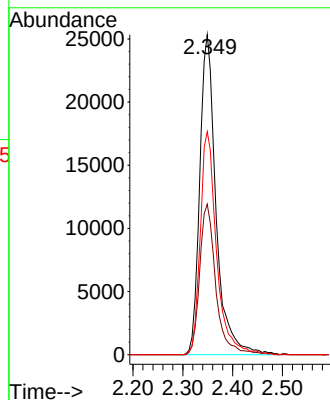
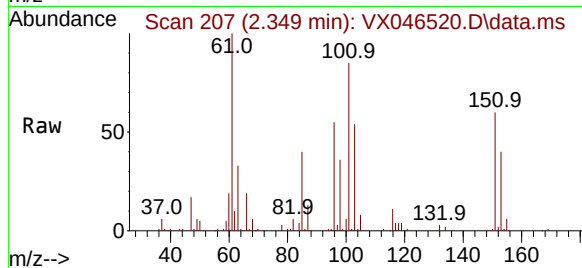
VSTDICCC050

Tgt Ion:	101	Resp:	5744
Ion Ratio	Lower	Upper	
101	100		
85	46.9	38.6	58.0
151	70.1	55.2	82.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#10

Methyl Iodide

Concen: 50.302 ug/l

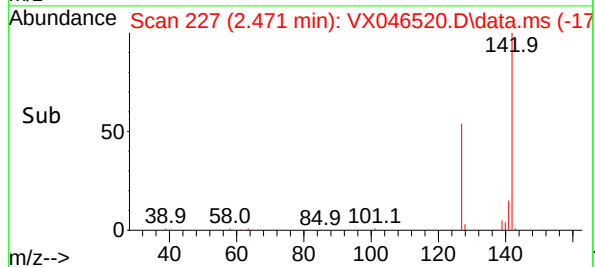
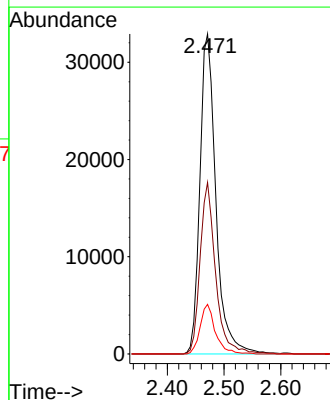
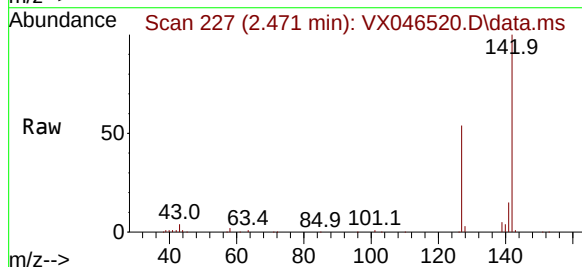
RT: 2.471 min Scan# 227

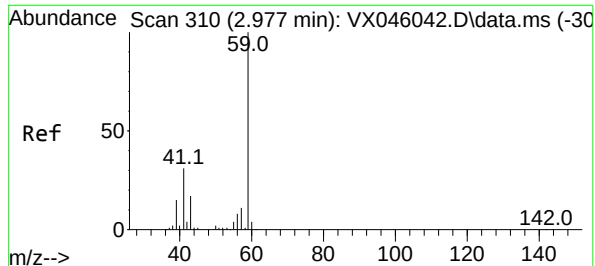
Delta R.T. -0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Tgt Ion:	142	Resp:	64524
Ion Ratio	Lower	Upper	
142	100		
127	52.0	41.7	62.5
141	14.9	11.5	17.3





#11

Tert butyl alcohol

Concen: 247.552 ug/l

RT: 2.971 min Scan# 30

Delta R.T. -0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 44039

Ion Ratio Lower Upper

59 100

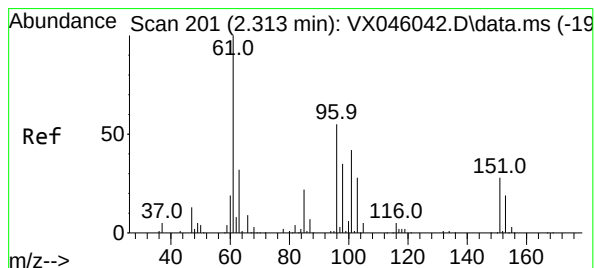
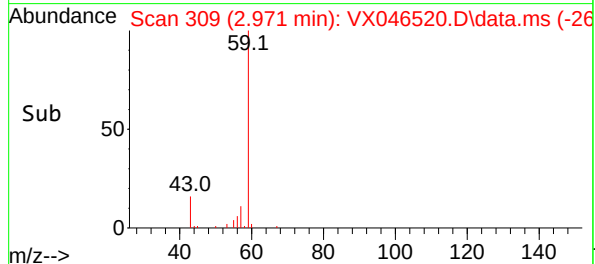
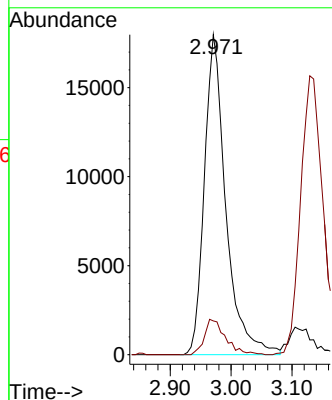
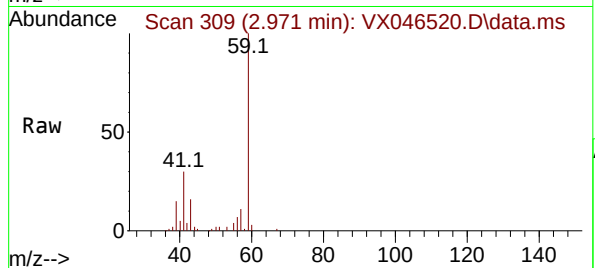
57 10.9 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#12

1,1-Dichloroethene

Concen: 47.772 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

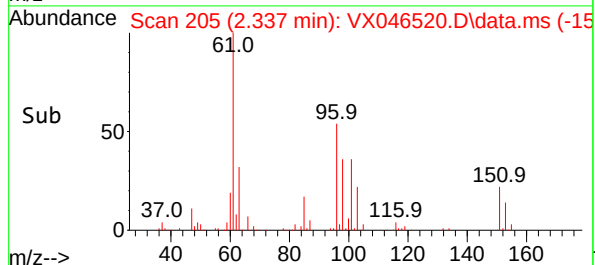
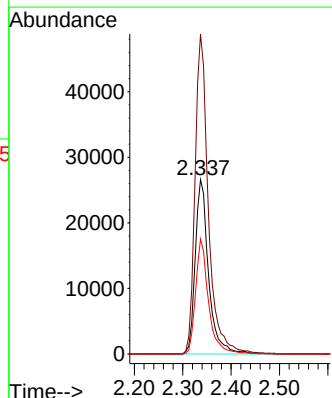
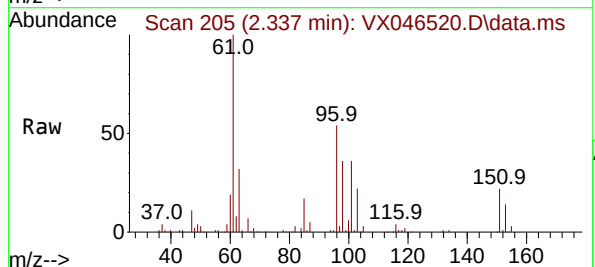
Tgt Ion: 96 Resp: 51110

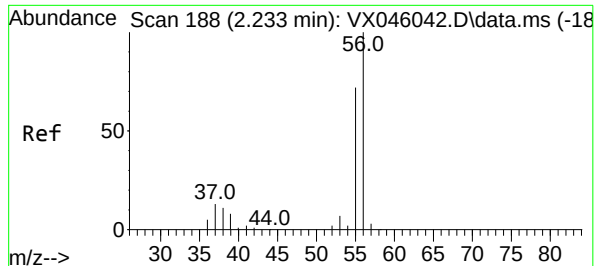
Ion Ratio Lower Upper

96 100

61 183.5 146.2 219.2

98 66.0 51.0 76.6





#13

Acrolein

Concen: 237.168 ug/l

RT: 2.251 min Scan# 191

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 50652

Ion Ratio Lower Upper

56 100

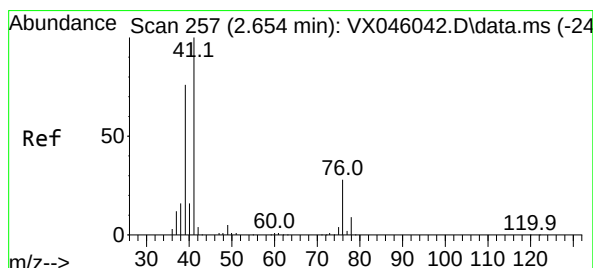
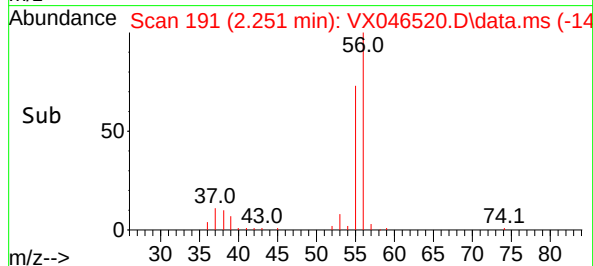
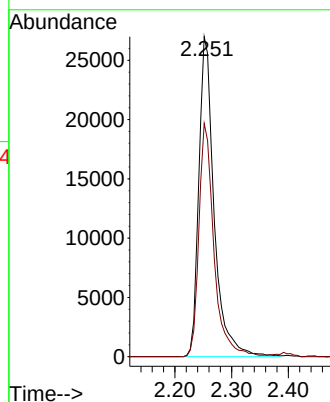
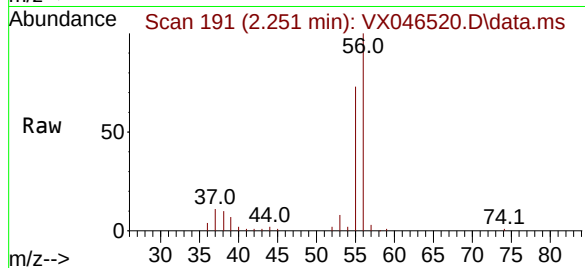
55 71.6 56.2 84.4

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 48.466 ug/l

RT: 2.684 min Scan# 262

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

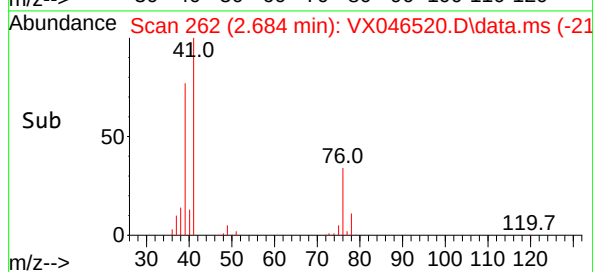
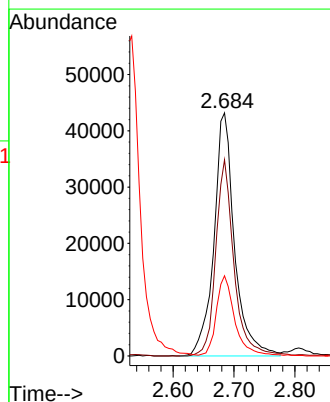
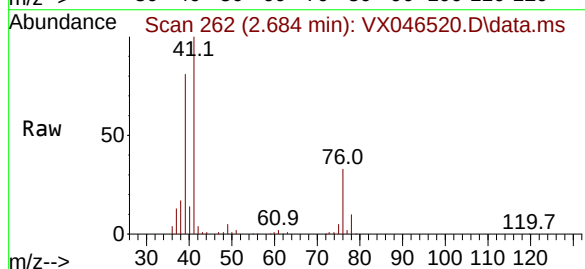
Tgt Ion: 41 Resp: 101836

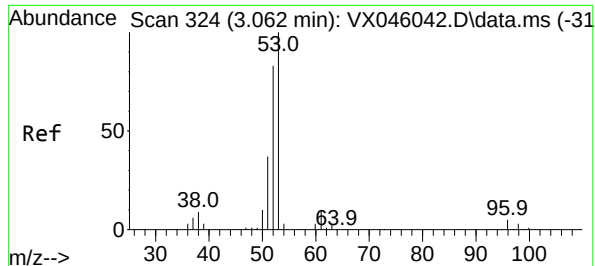
Ion Ratio Lower Upper

41 100

39 71.4 60.6 90.8

76 29.7 24.9 37.3





#15

Acrylonitrile

Concen: 253.656 ug/l

RT: 3.081 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

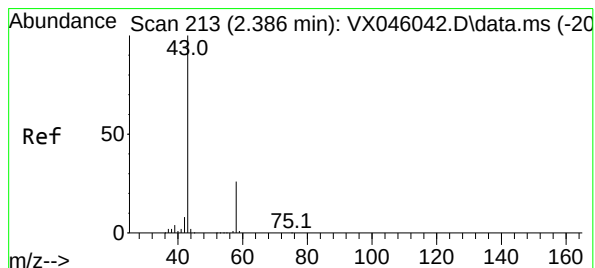
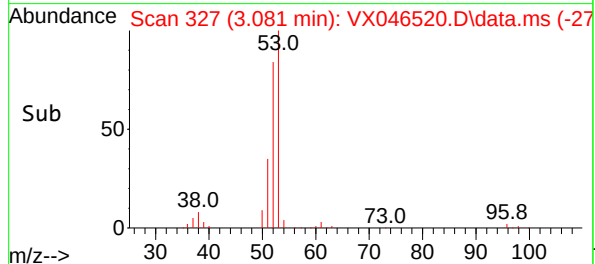
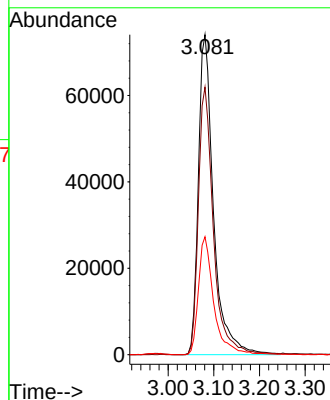
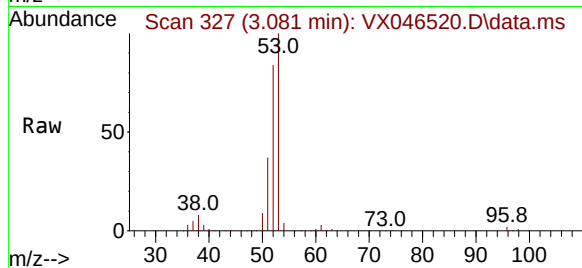
VSTDICCC050

Tgt Ion:	53	Resp:	17061
Ion	Ratio	Lower	Upper
53	100		
52	83.3	65.3	97.9
51	37.6	29.8	44.8

Manual Integrations
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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#16

Acetone

Concen: 243.373 ug/l

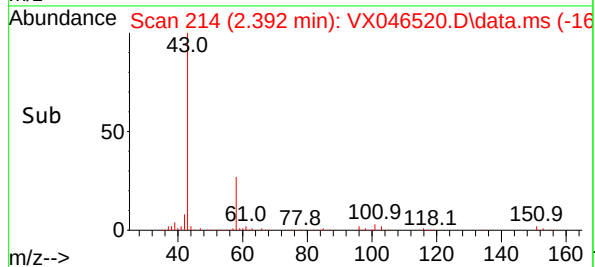
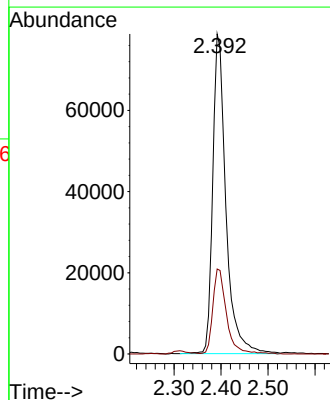
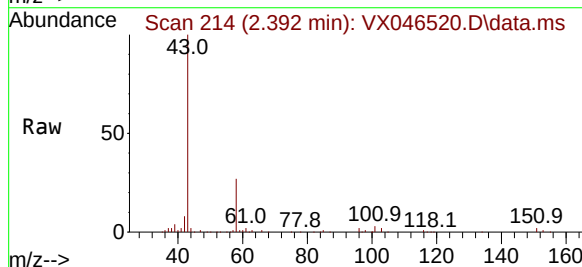
RT: 2.392 min Scan# 214

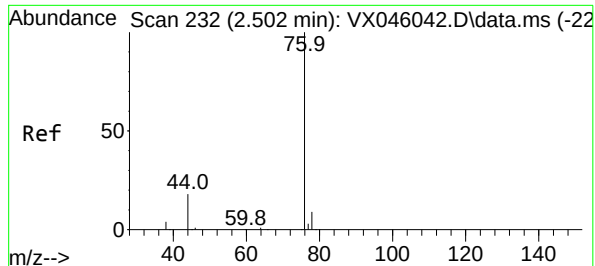
Delta R.T. -0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Tgt Ion:	43	Resp:	153142
Ion	Ratio	Lower	Upper
43	100		
58	26.5	21.2	31.8





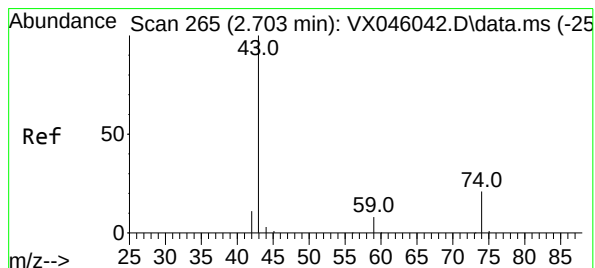
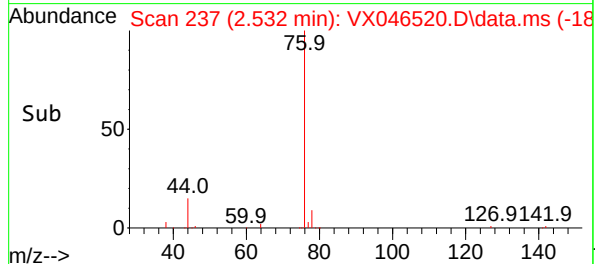
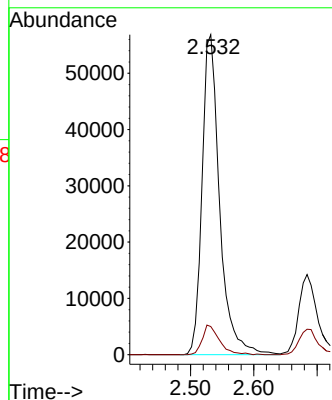
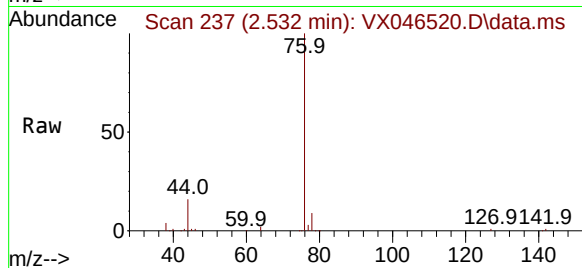
#17
Carbon Disulfide
Concen: 48.339 ug/l
RT: 2.532 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 109794
Ion Ratio Lower Upper
76 100
78 8.8 7.0 10.4

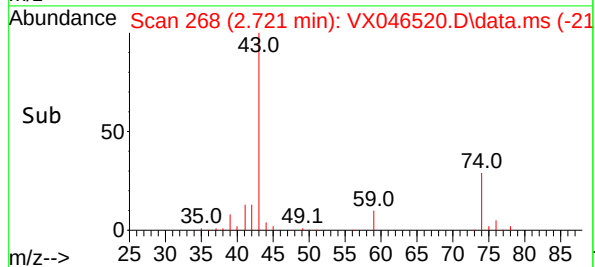
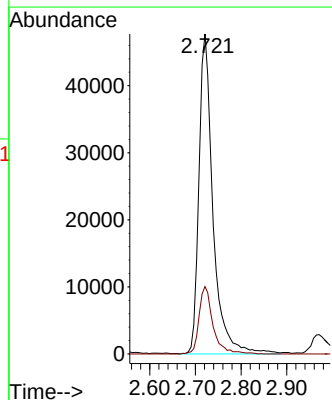
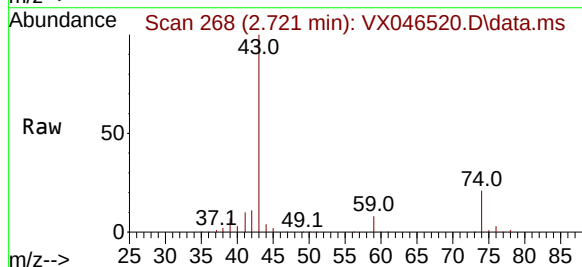
Manual Integrations
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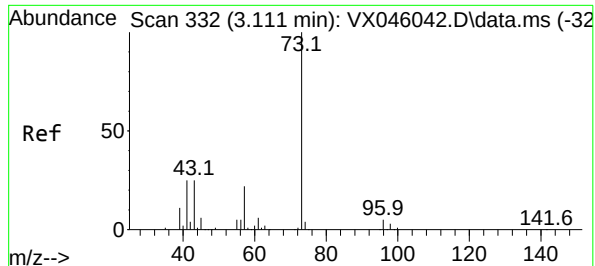
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#18
Methyl Acetate
Concen: 53.343 ug/l
RT: 2.721 min Scan# 268
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 43 Resp: 101867
Ion Ratio Lower Upper
43 100
74 20.9 16.7 25.1





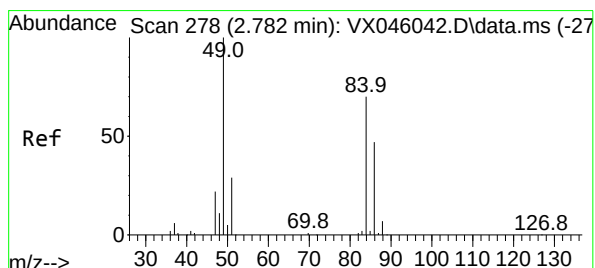
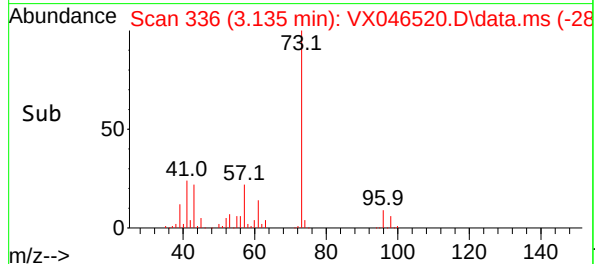
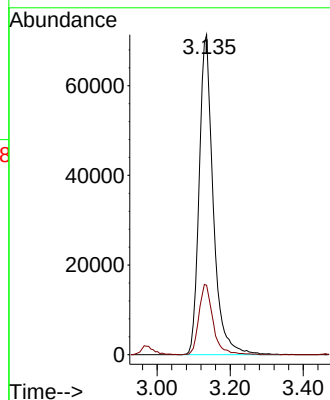
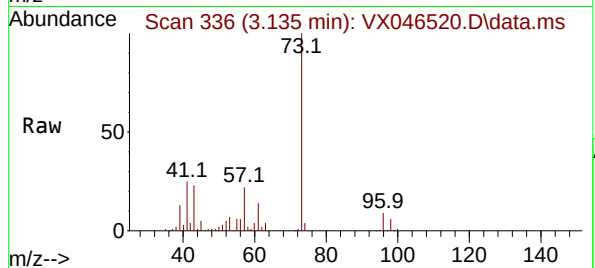
#19
Methyl tert-butyl Ether
Concen: 50.914 ug/l
RT: 3.135 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 190602
Ion Ratio Lower Upper
73 100
57 21.7 17.7 26.5

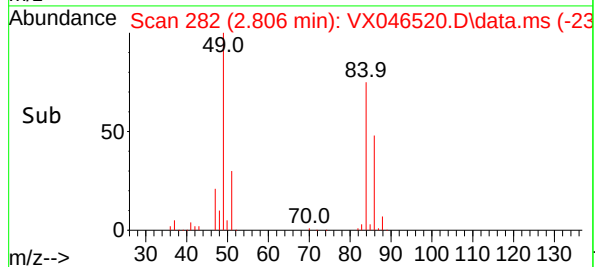
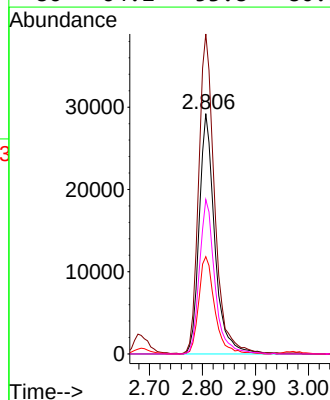
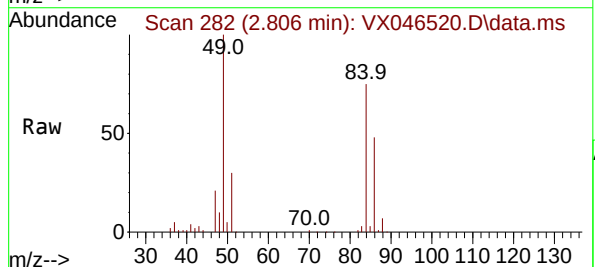
Manual Integrations
APPROVED

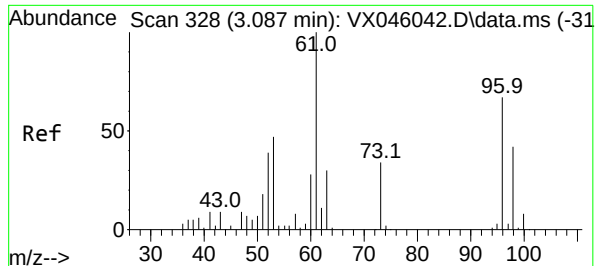
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#20
Methylene Chloride
Concen: 46.355 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

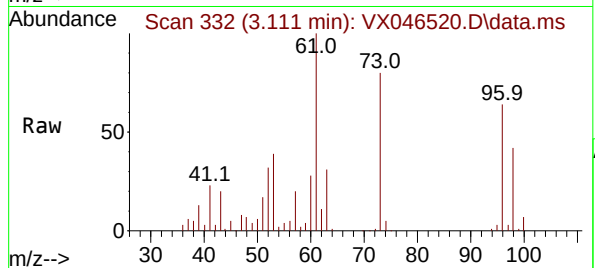
Tgt Ion: 84 Resp: 59622
Ion Ratio Lower Upper
84 100
49 133.1 113.9 170.9
51 40.5 33.5 50.3
86 64.2 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 46.346 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

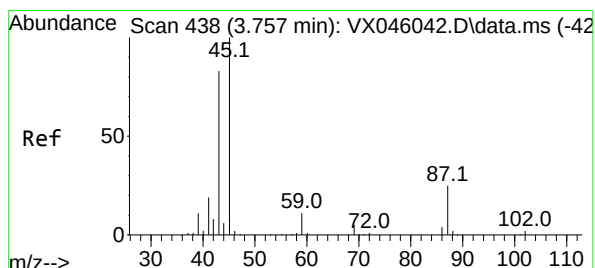
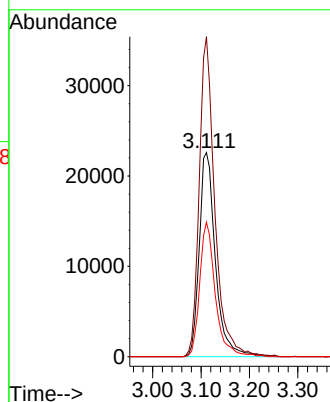
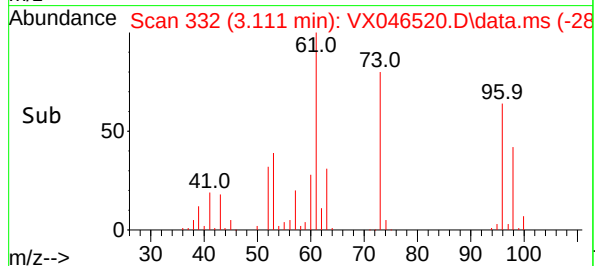
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



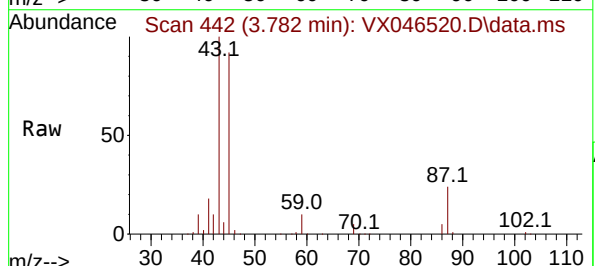
Tgt Ion: 96 Resp: 52474
Ion Ratio Lower Upper
96 100
61 156.7 119.5 179.3
98 65.9 50.0 75.0

Manual Integrations
APPROVED

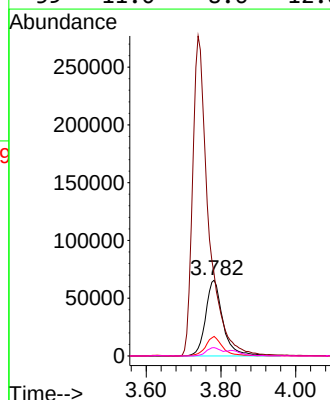
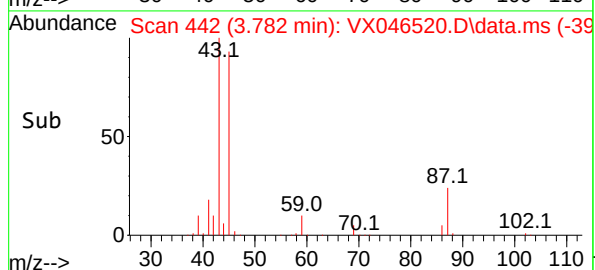
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

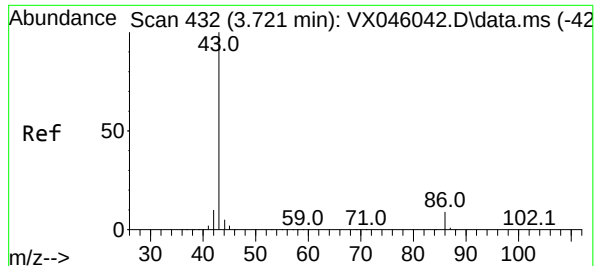


#22
Diisopropyl ether
Concen: 50.963 ug/l
RT: 3.782 min Scan# 442
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40



Tgt Ion: 45 Resp: 211118
Ion Ratio Lower Upper
45 100
43 108.0 66.6 100.0#
87 25.8 19.8 29.6
59 11.0 8.6 12.8





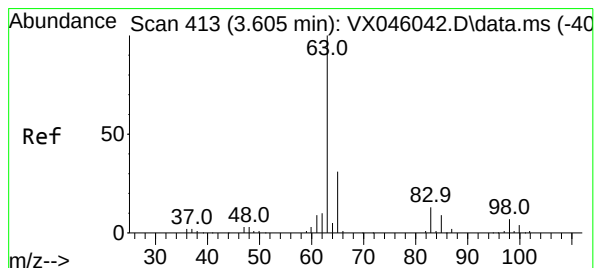
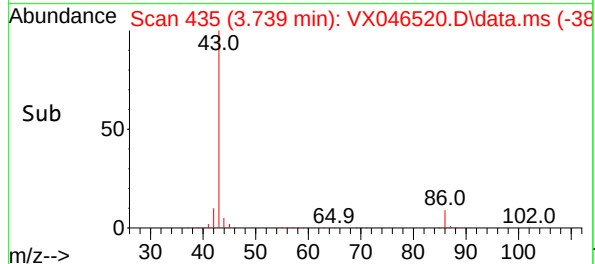
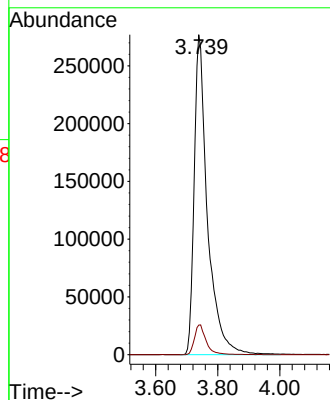
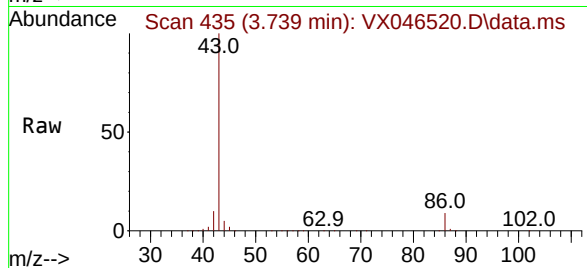
#23
Vinyl Acetate
Concen: 257.541 ug/l
RT: 3.739 min Scan# 417
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 82368
Ion Ratio Lower Upper
43 100
86 9.2 7.5 11.3

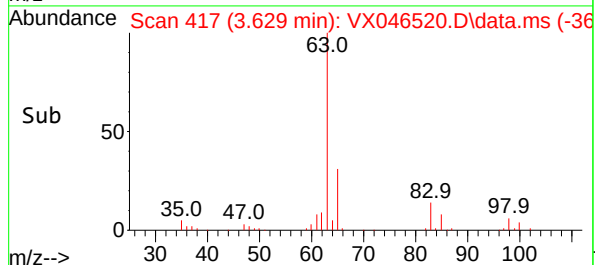
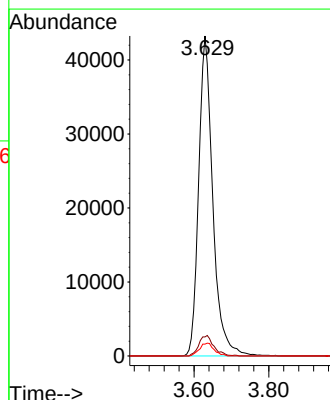
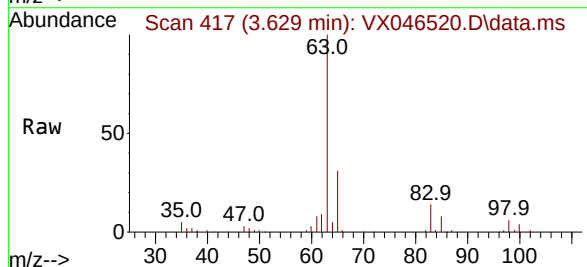
Manual Integrations
APPROVED

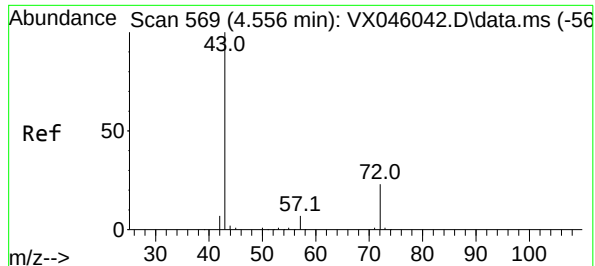
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#24
1,1-Dichloroethane
Concen: 49.132 ug/l
RT: 3.629 min Scan# 417
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 63 Resp: 113435
Ion Ratio Lower Upper
63 100
98 5.9 3.6 10.8
100 3.7 2.1 6.3





#25

2-Butanone

Concen: 253.975 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 226668

Ion Ratio Lower Upper

43 100

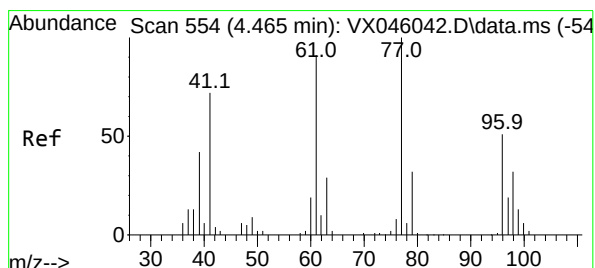
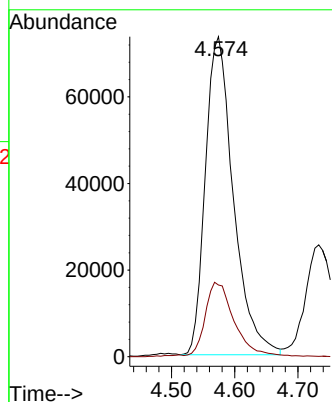
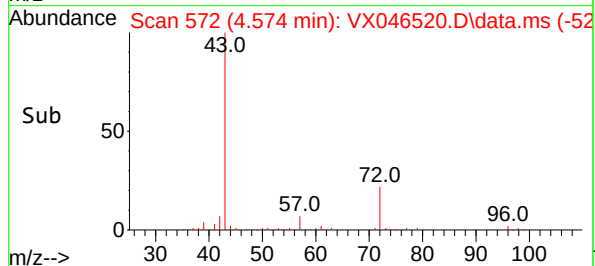
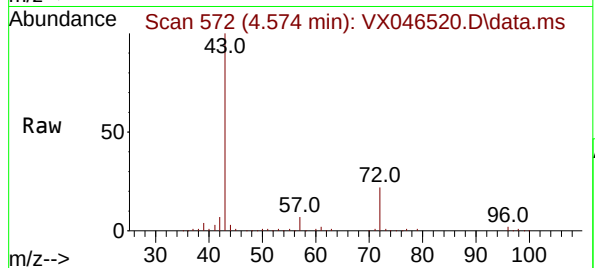
72 22.0 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 50.783 ug/l

RT: 4.495 min Scan# 559

Delta R.T. 0.000 min

Lab File: VX046520.D

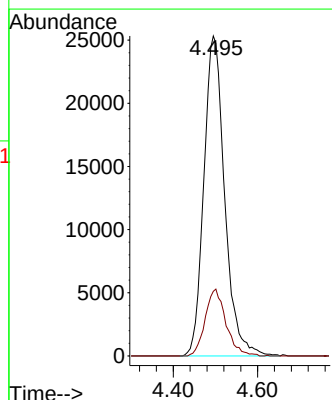
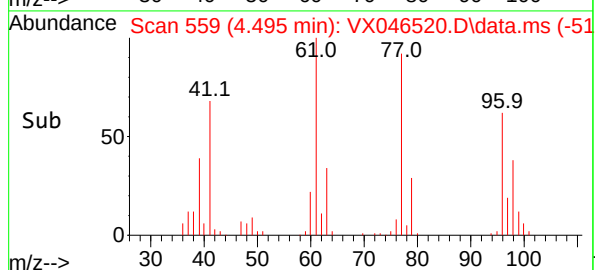
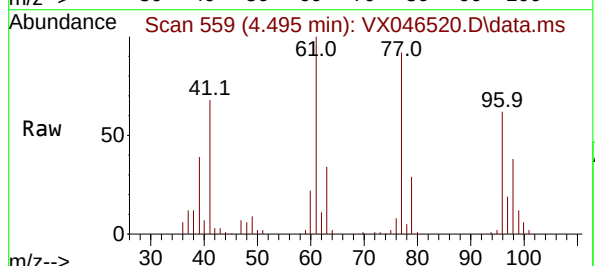
Acq: 06 Jun 2025 10:40

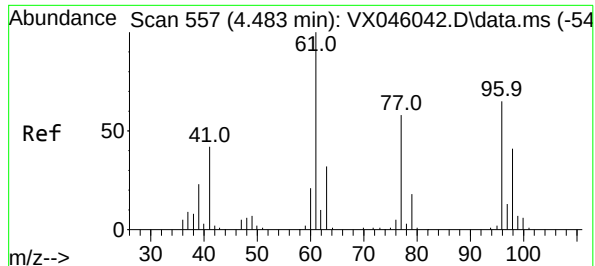
Tgt Ion: 77 Resp: 87040

Ion Ratio Lower Upper

77 100

97 20.9 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 47.898 ug/l

RT: 4.507 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 66760

Ion Ratio Lower Upper

96 100

61 159.5 0.0 322.8

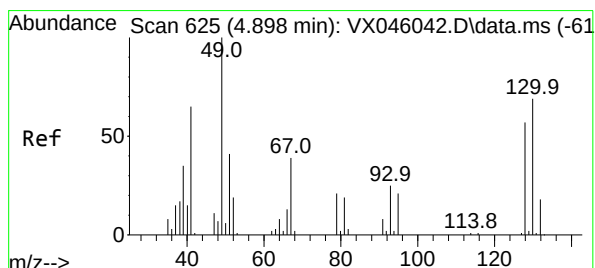
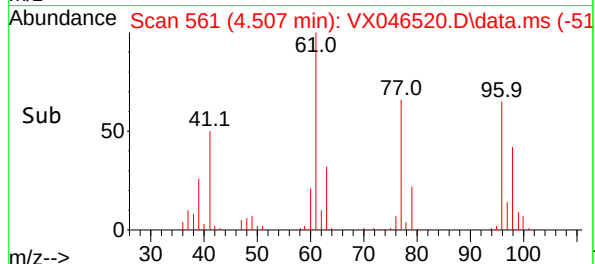
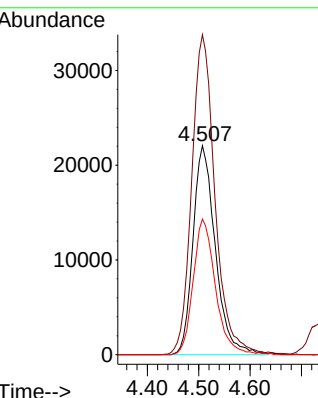
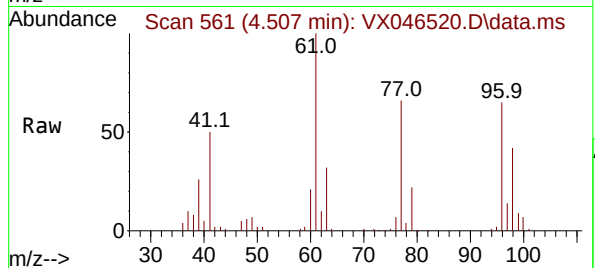
98 64.6 0.0 129.0

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 48.273 ug/l

RT: 4.916 min Scan# 628

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

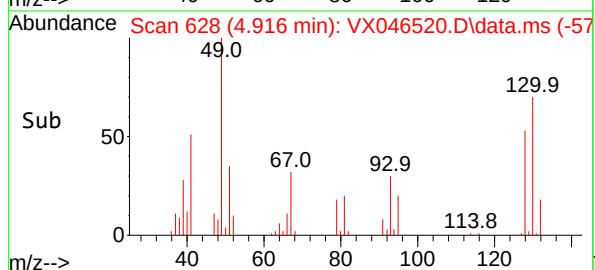
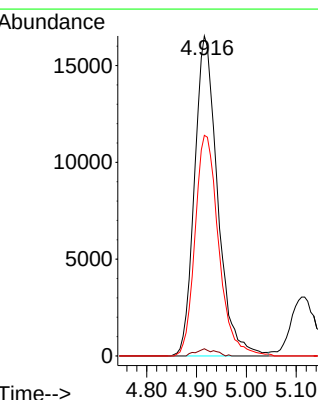
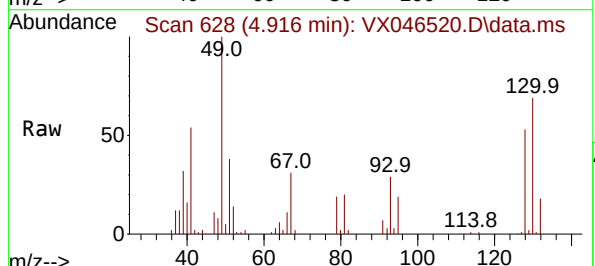
Tgt Ion: 49 Resp: 53158

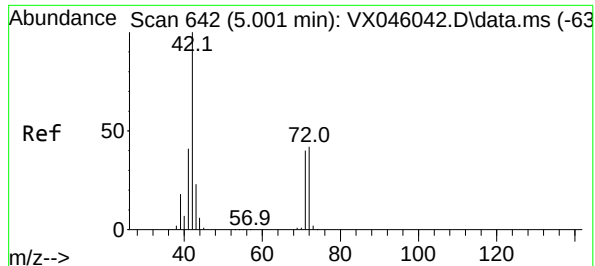
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.0

130 70.5 56.2 84.2





#29

Tetrahydrofuran

Concen: 252.427 ug/l

RT: 5.019 min Scan# 64

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 142270

Ion Ratio Lower Upper

42 100

72 41.5 33.7 50.5

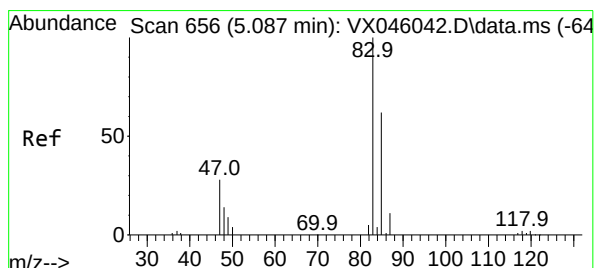
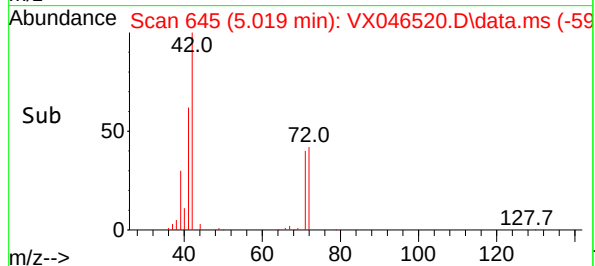
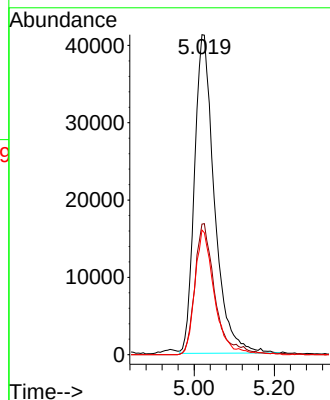
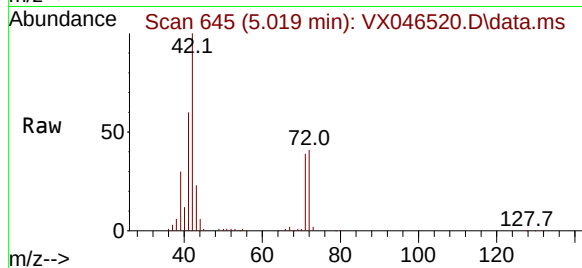
71 38.5 31.4 47.2

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 49.084 ug/l

RT: 5.111 min Scan# 660

Delta R.T. 0.000 min

Lab File: VX046520.D

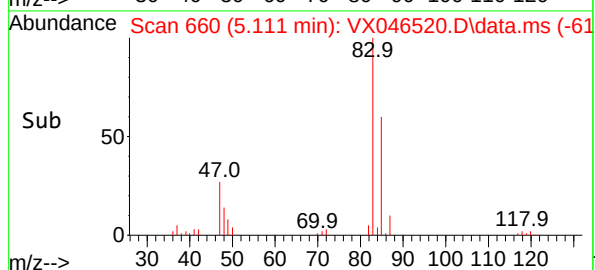
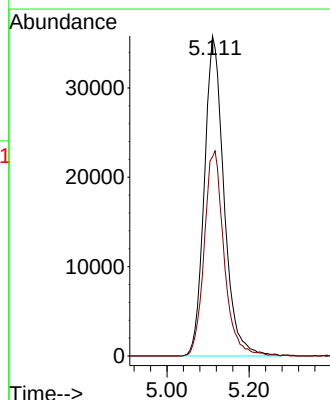
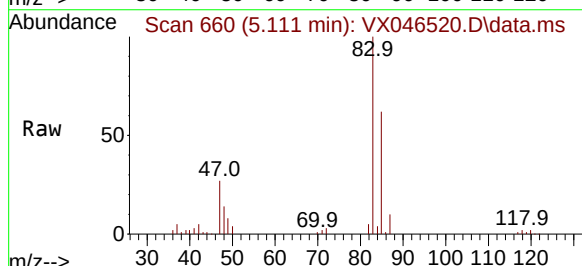
Acq: 06 Jun 2025 10:40

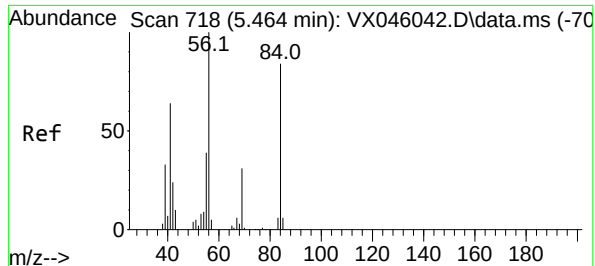
Tgt Ion: 83 Resp: 118738

Ion Ratio Lower Upper

83 100

85 62.2 49.3 73.9





#31

Cyclohexane

Concen: 48.110 ug/l

RT: 5.489 min Scan# 718

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 8966

Ion Ratio Lower Upper

56 100

69 30.8 24.4 36.6

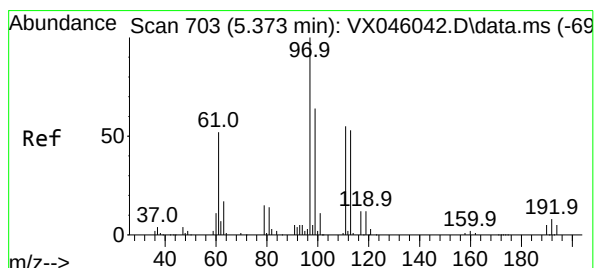
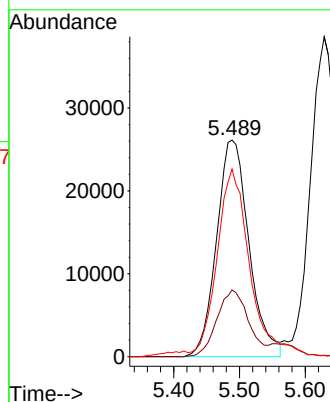
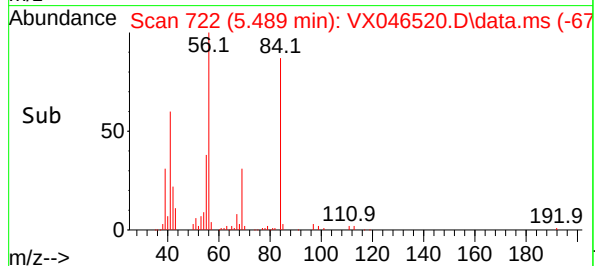
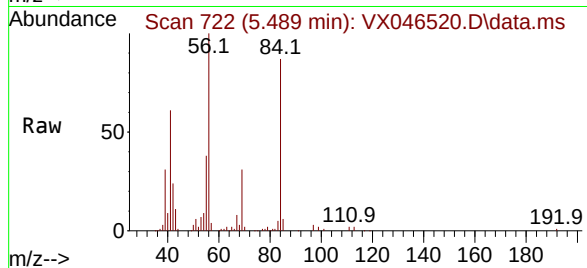
84 84.6 66.9 100.3

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#32

1,1,1-Trichloroethane

Concen: 49.696 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

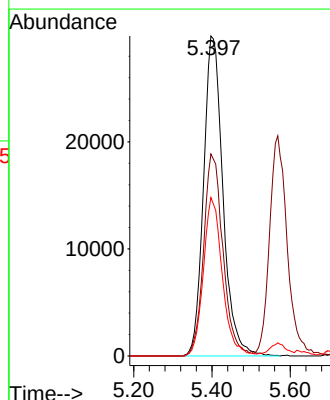
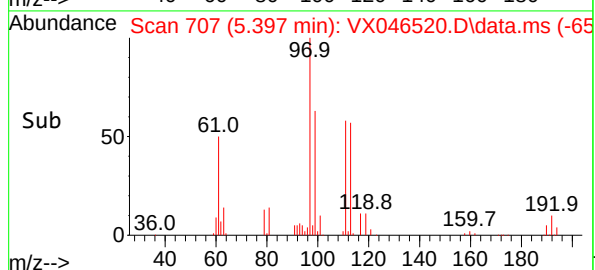
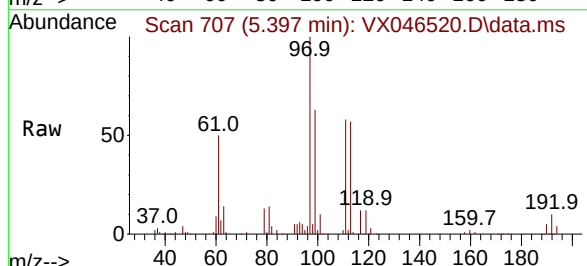
Tgt Ion: 97 Resp: 102837

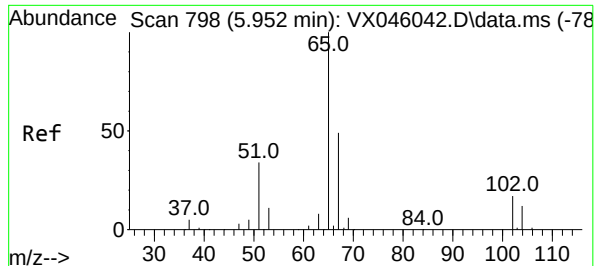
Ion Ratio Lower Upper

97 100

99 62.8 51.8 77.6

61 48.4 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 49.092 ug/l

RT: 5.970 min Scan# 801

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 78700

Ion Ratio Lower Upper

65 100

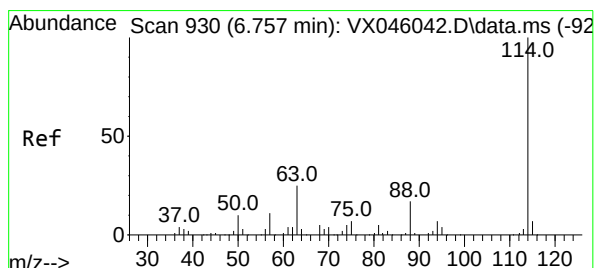
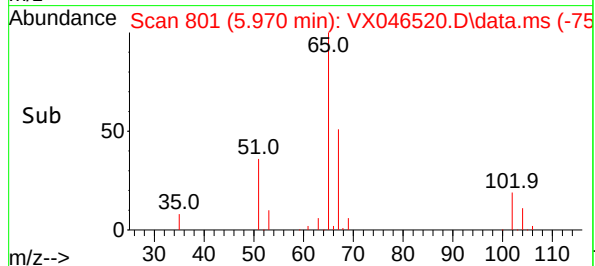
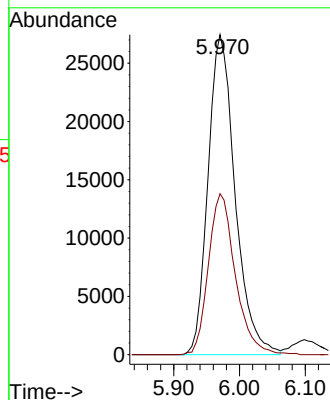
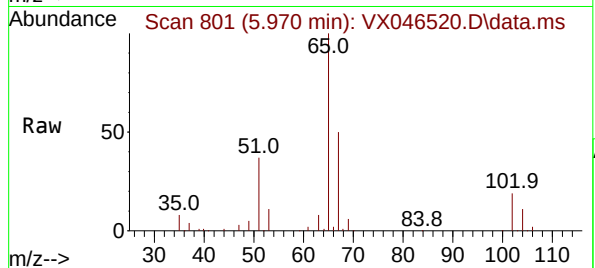
67 50.1 0.0 99.0

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.775 min Scan# 933

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

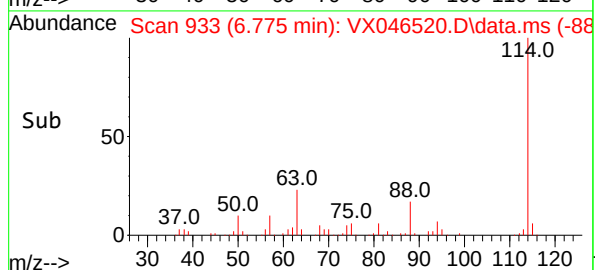
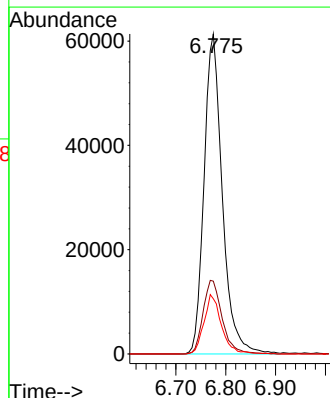
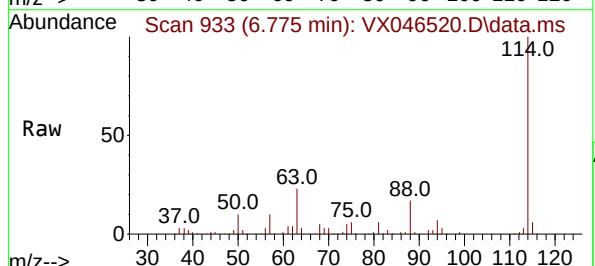
Tgt Ion:114 Resp: 156192

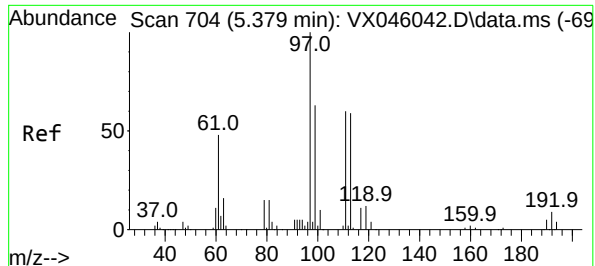
Ion Ratio Lower Upper

114 100

63 22.8 0.0 49.2

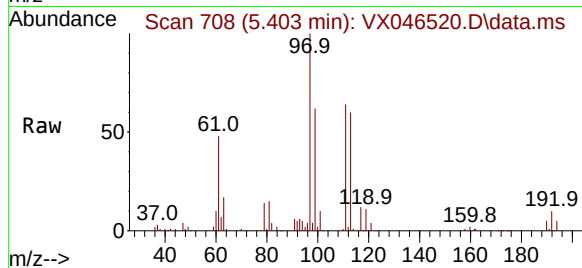
88 17.2 0.0 33.6





#35
Dibromofluoromethane
Concen: 49.986 ug/l
RT: 5.403 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

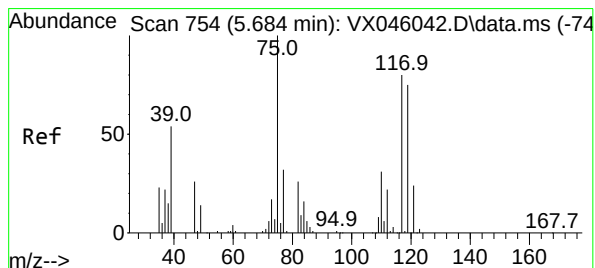
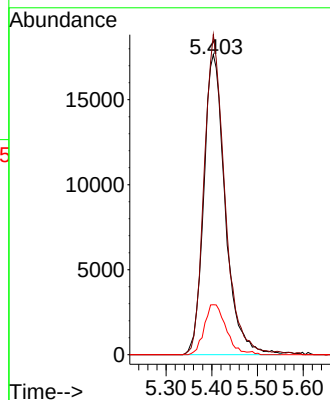
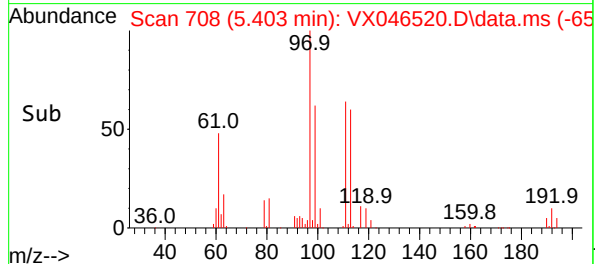
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:113 Resp: 57410
Ion Ratio Lower Upper
113 100
111 103.3 83.1 124.7
192 17.1 13.3 19.9

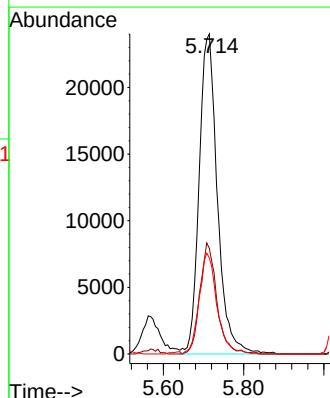
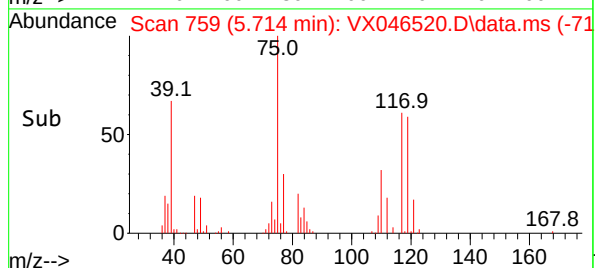
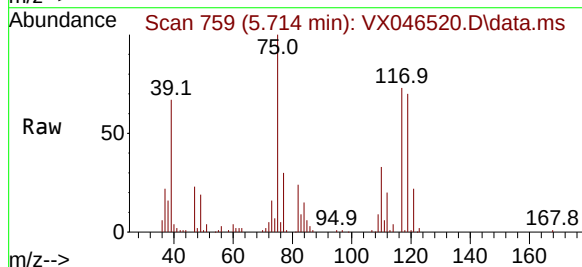
Manual Integrations
APPROVED

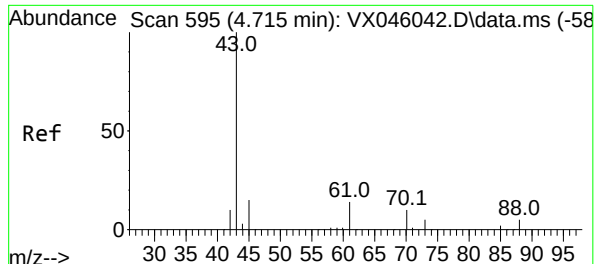
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#36
1,1-Dichloropropene
Concen: 46.165 ug/l
RT: 5.714 min Scan# 759
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 75 Resp: 75745
Ion Ratio Lower Upper
75 100
110 32.2 16.3 48.9
77 30.8 24.3 36.5





#37

Ethyl Acetate

Concen: 54.042 ug/l

RT: 4.733 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

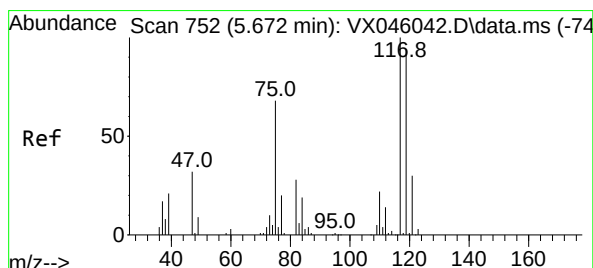
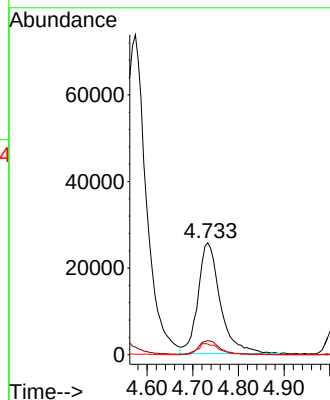
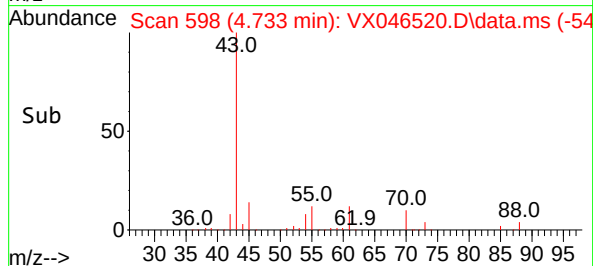
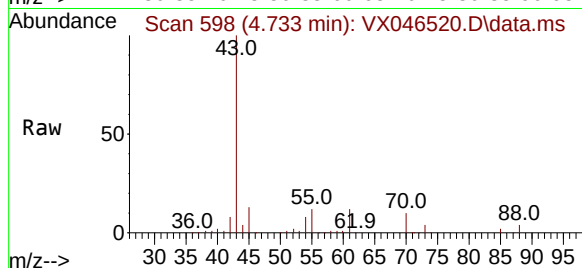
VSTDICCC050

Tgt Ion: 43	Resp: 8652
Ion Ratio	Lower Upper
43 100	
61 11.7	10.3 15.5
70 9.7	7.9 11.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#38

Carbon Tetrachloride

Concen: 47.920 ug/l

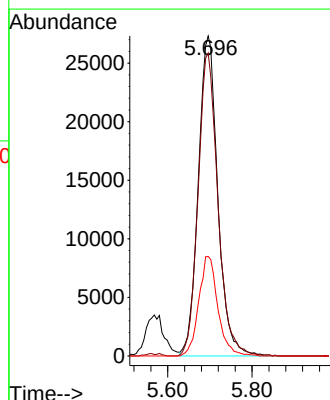
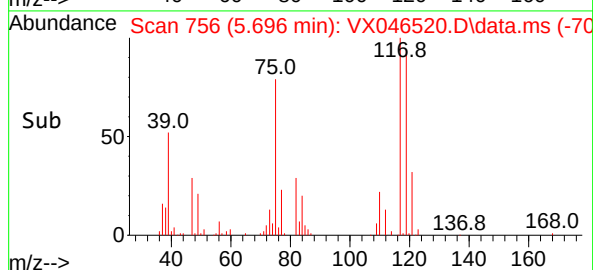
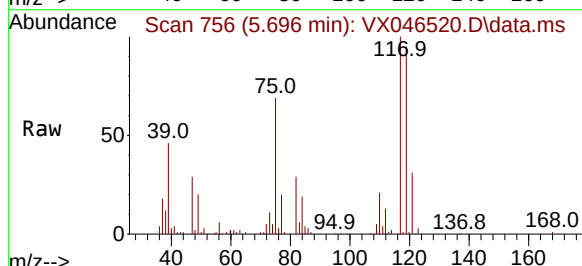
RT: 5.696 min Scan# 756

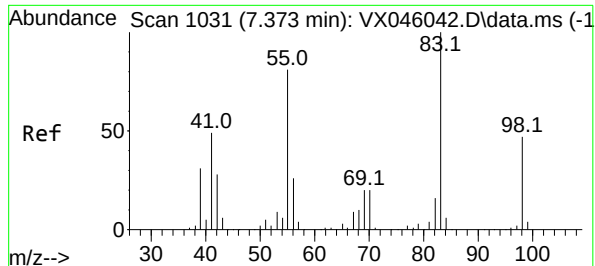
Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Tgt Ion: 117	Resp: 88063
Ion Ratio	Lower Upper
117 100	
119 94.6	75.2 112.8
121 31.1	24.2 36.4





#39

Methylcyclohexane

Concen: 46.141 ug/l

RT: 7.391 min Scan# 1034

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

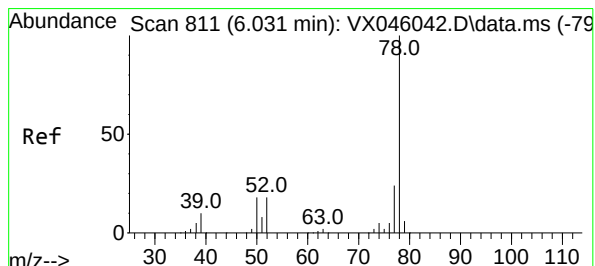
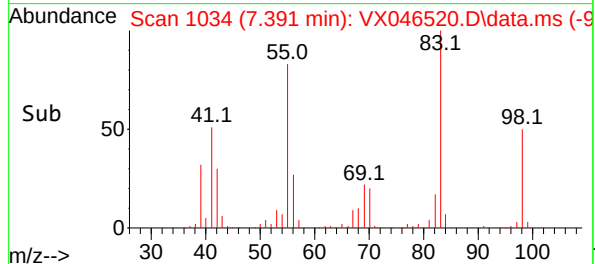
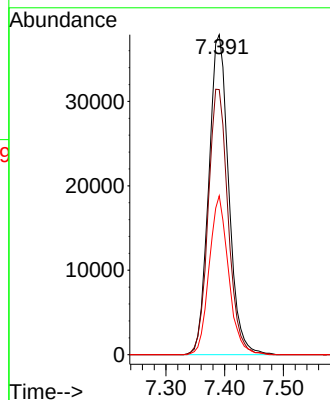
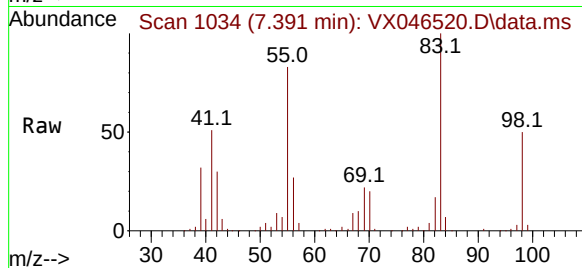
Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:	83	Resp:	8935
Ion Ratio	Lower	Upper	
83	100		
55	82.9	64.7	97.1
98	49.6	37.4	56.2

Manual Integrations
APPROVEDReviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

#40

Benzene

Concen: 48.257 ug/l

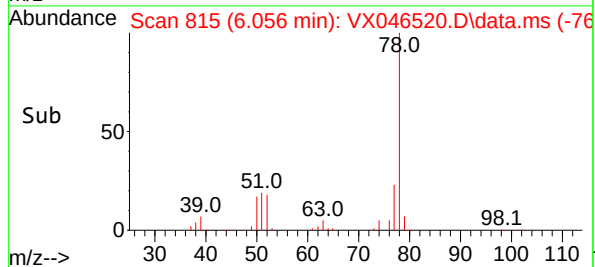
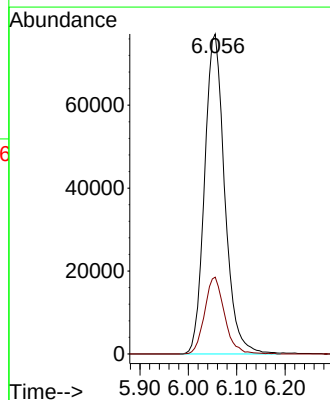
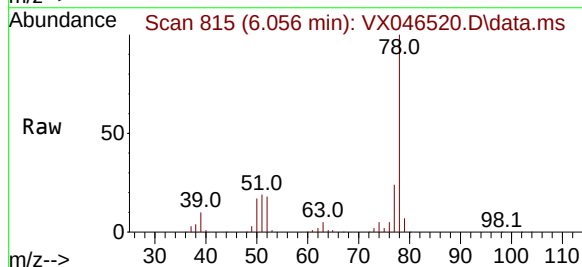
RT: 6.056 min Scan# 815

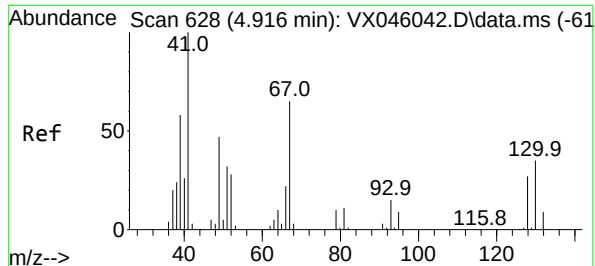
Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

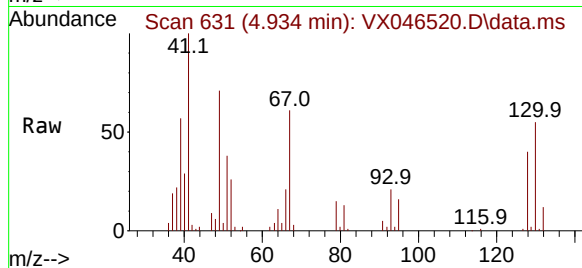
Tgt Ion:	78	Resp:	222898
Ion Ratio	Lower	Upper	
78	100		
77	24.0	19.0	28.4





#41
Methacrylonitrile
Concen: 50.720 ug/l
RT: 4.934 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

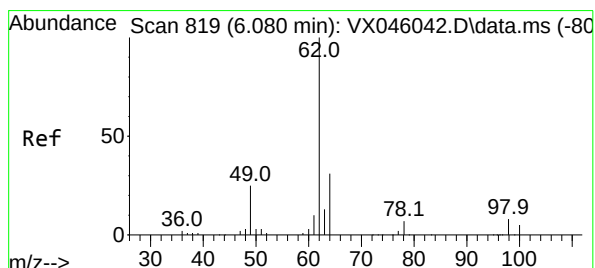
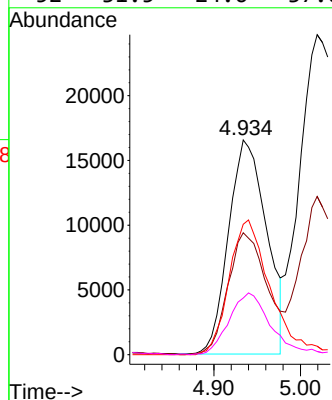
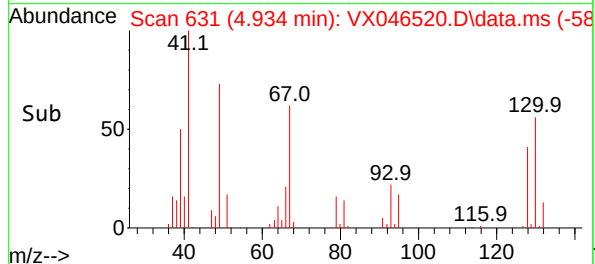
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 41 Resp: 5043
Ion Ratio Lower Upper
41 100
39 60.1 47.2 70.8
67 69.1 50.7 76.1
52 31.5 24.6 37.0

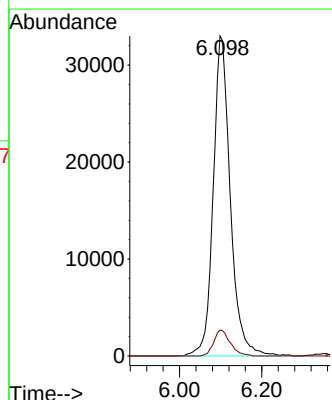
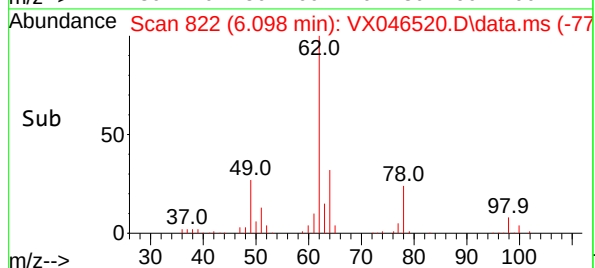
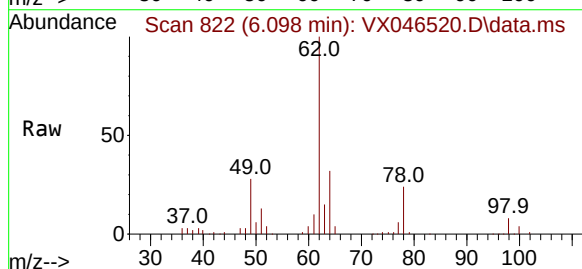
Manual Integrations
APPROVED

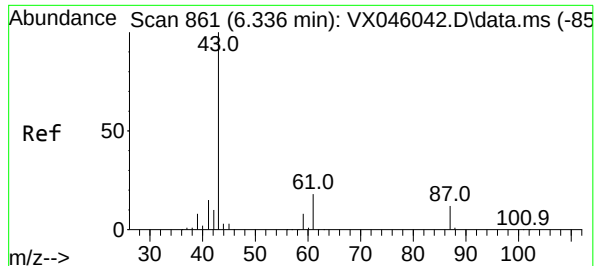
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#42
1,2-Dichloroethane
Concen: 49.590 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 62 Resp: 95292
Ion Ratio Lower Upper
62 100
98 7.8 0.0 15.2





#43

Isopropyl Acetate

Concen: 51.653 ug/l

RT: 6.354 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

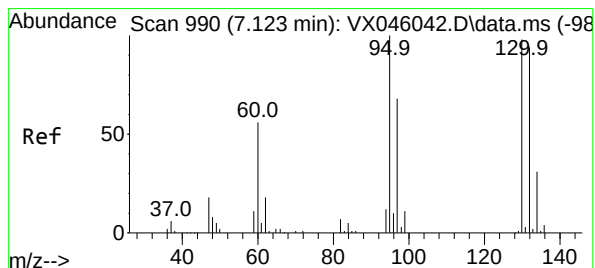
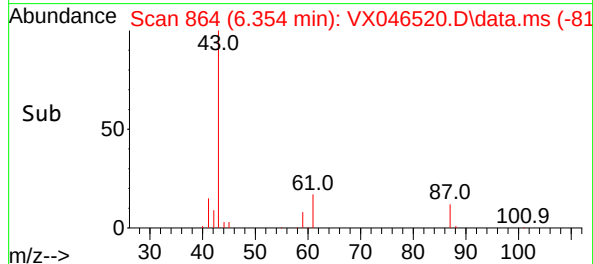
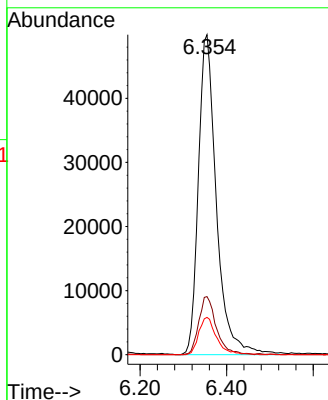
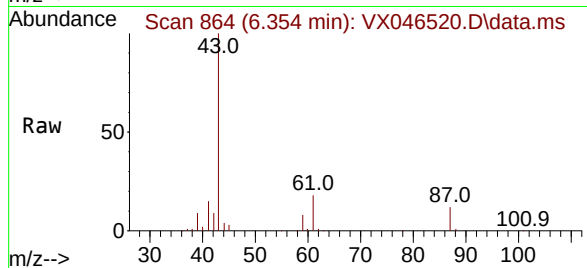
VSTDICCC050

Tgt Ion: 43	Resp: 144198
Ion Ratio	Lower Upper
43	100
61	17.7 14.3 21.5
87	11.4 9.5 14.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#44

Trichloroethene

Concen: 46.686 ug/l

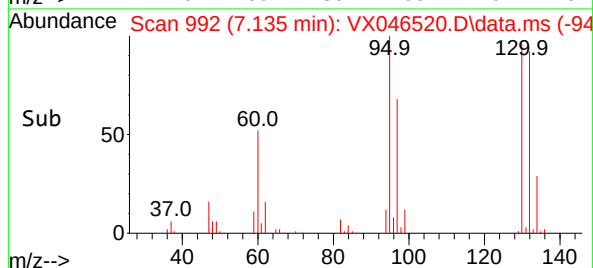
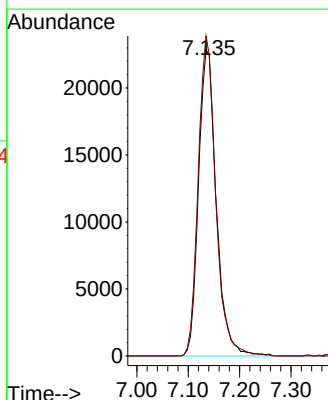
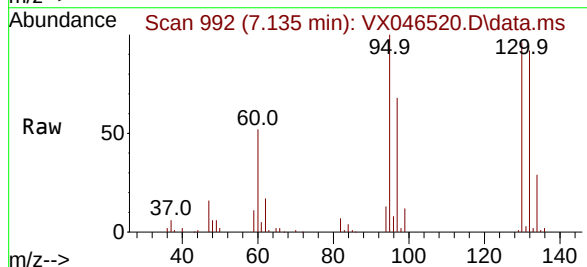
RT: 7.135 min Scan# 992

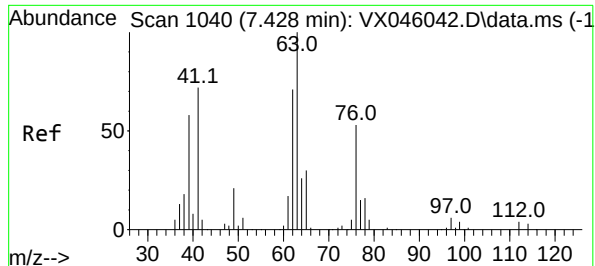
Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Tgt Ion:130	Resp: 54791
Ion Ratio	Lower Upper
130	100
95	104.6 0.0 204.2





#45

1,2-Dichloropropane

Concen: 49.904 ug/l

RT: 7.440 min Scan# 1042

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 5949

Ion Ratio Lower Upper

63 100

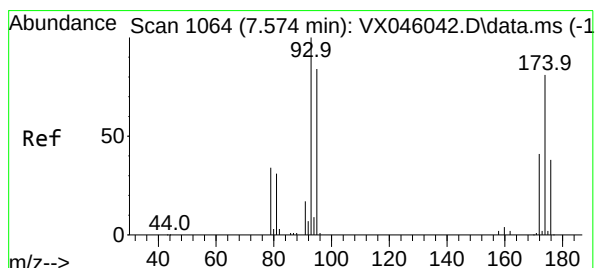
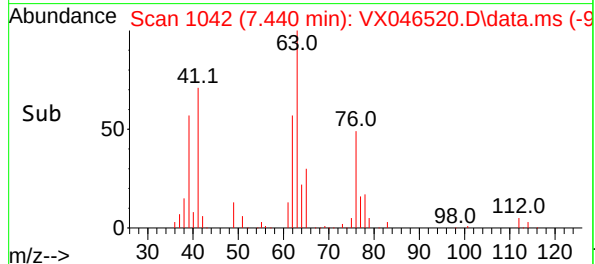
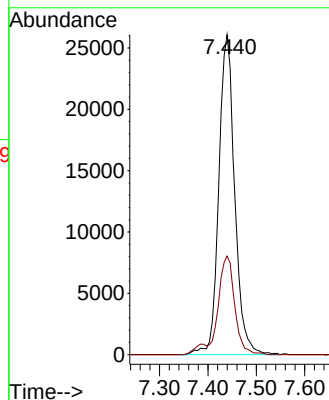
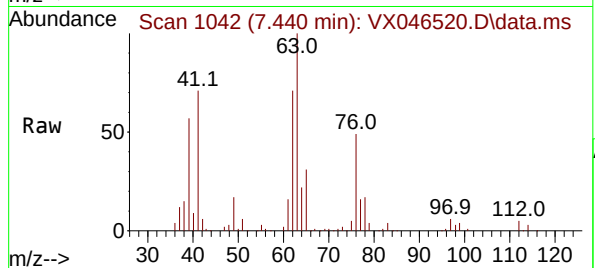
65 30.8 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#46

Dibromomethane

Concen: 48.609 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

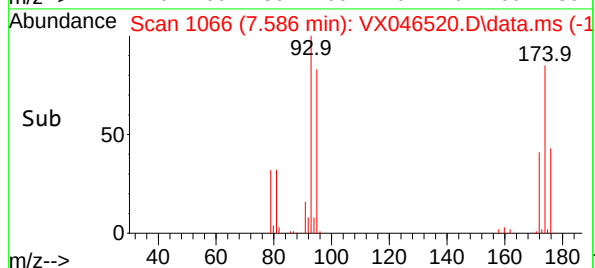
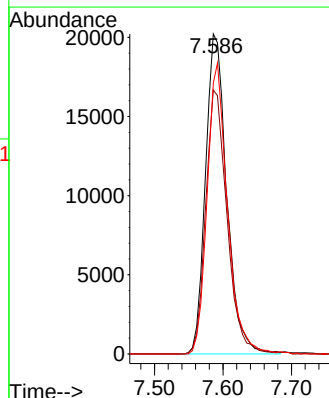
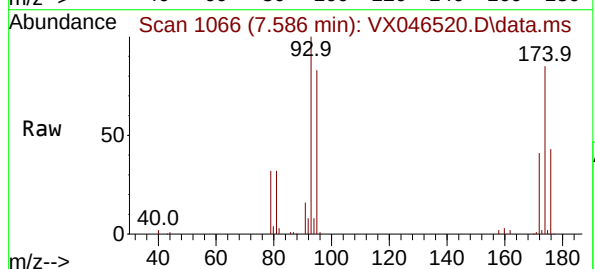
Tgt Ion: 93 Resp: 43598

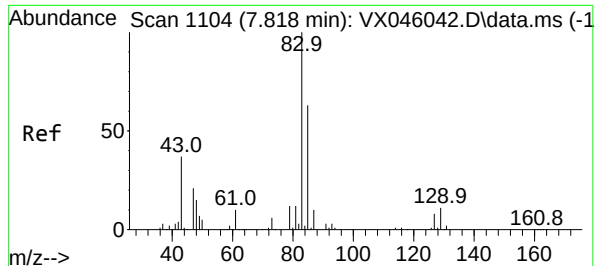
Ion Ratio Lower Upper

93 100

95 83.2 65.6 98.4

174 87.0 68.2 102.2





#47

Bromodichloromethane

Concen: 51.052 ug/l

RT: 7.830 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

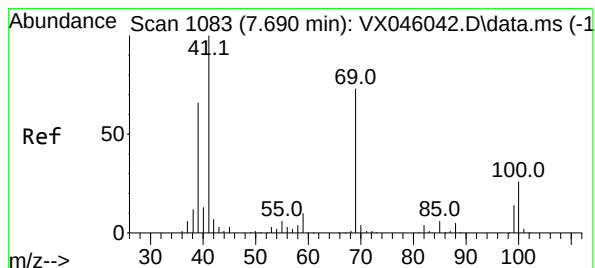
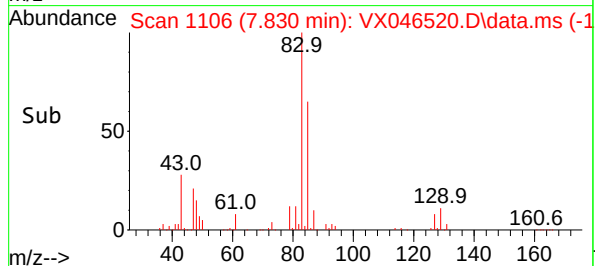
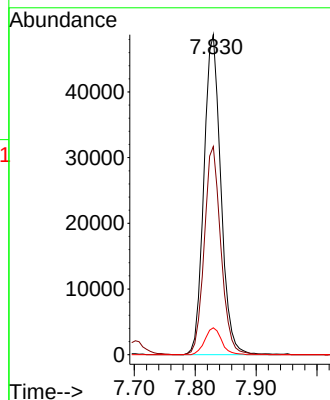
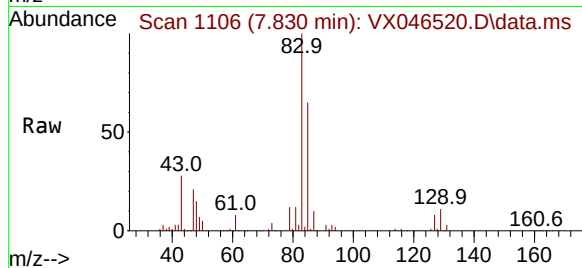
VSTDICCC050

Tgt Ion:	83	Resp:	94149
Ion	Ratio	Lower	Upper
83	100		
85	65.0	50.5	75.7
127	8.4	6.5	9.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#48

Methyl methacrylate

Concen: 52.285 ug/l

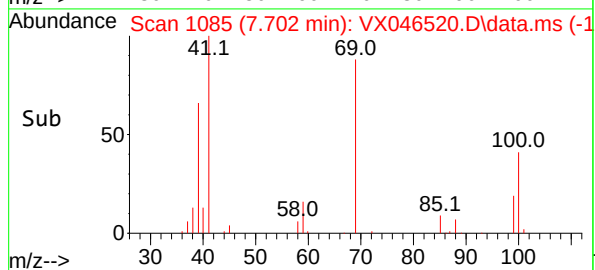
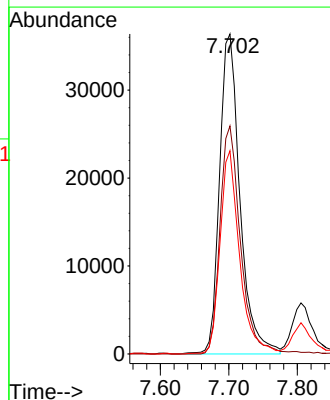
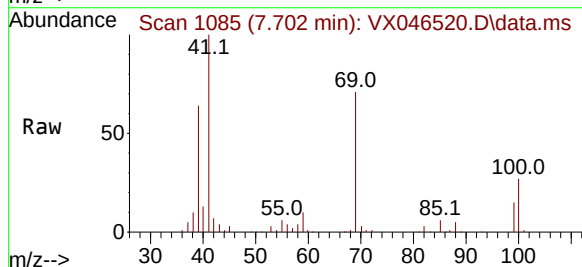
RT: 7.702 min Scan# 1085

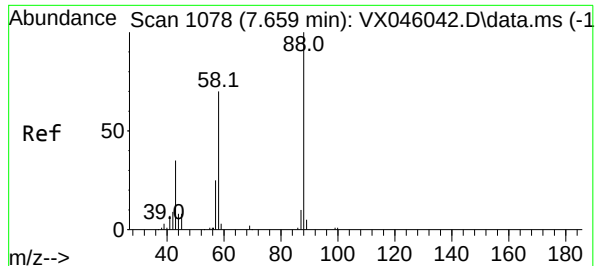
Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Tgt Ion:	41	Resp:	75100
Ion	Ratio	Lower	Upper
41	100		
69	71.3	58.5	87.7
39	60.9	51.7	77.5





#49

1,4-Dioxane

Concen: 1031.079 ug/l

RT: 7.671 min Scan# 1080

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

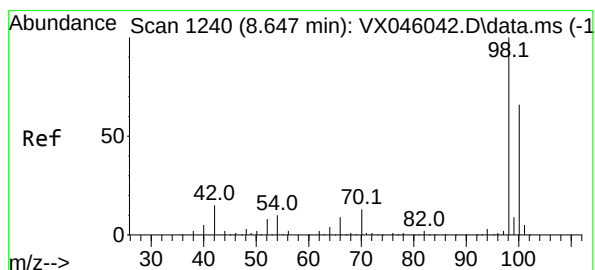
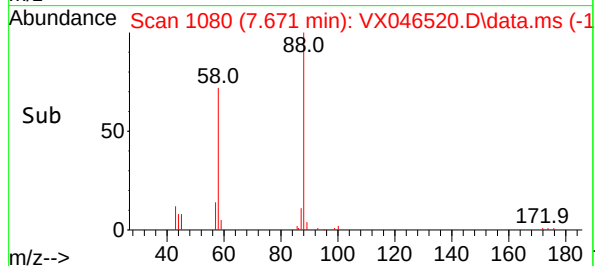
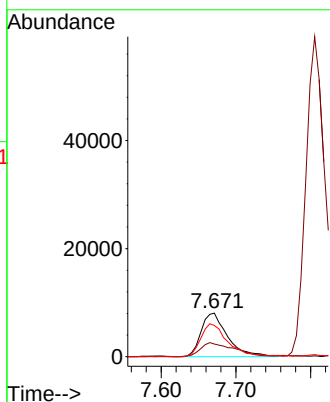
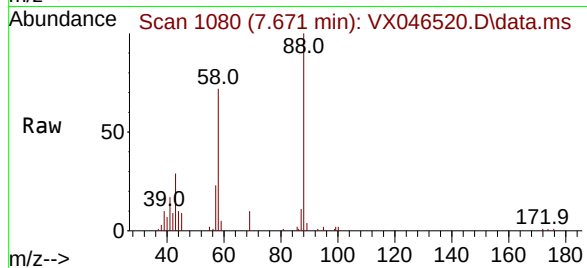
VSTDICCC050

Tgt Ion	88	Resp	1980
Ion Ratio	100		
Lower			
Upper			
88	100		
43	41.6	33.4	50.2
58	76.4	58.6	88.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#50

Toluene-d8

Concen: 49.000 ug/l

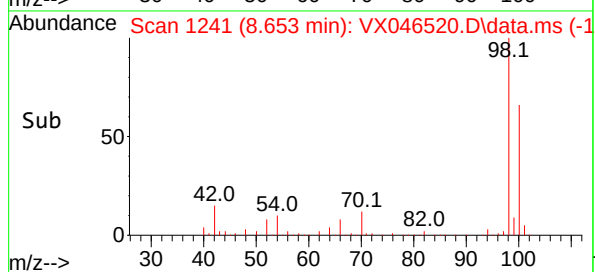
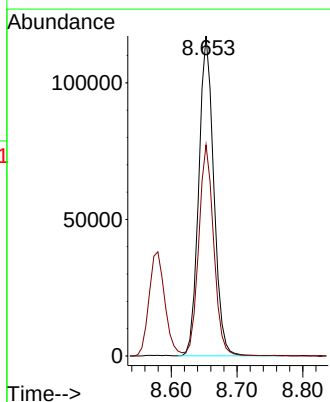
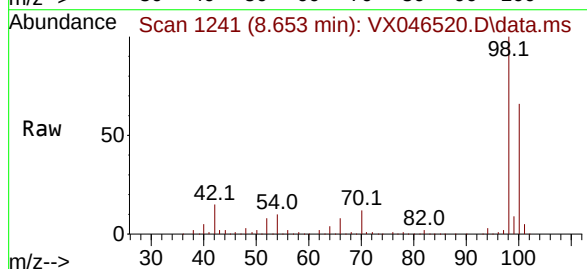
RT: 8.653 min Scan# 1241

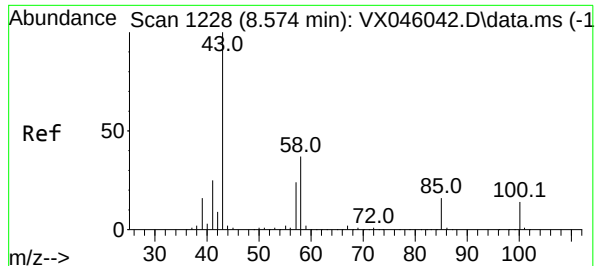
Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

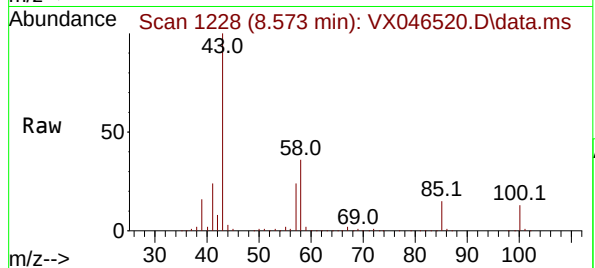
Tgt Ion	98	Resp	185557
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower			
Upper			
98	100		
100	65.8	53.5	80.3





#51
4-Methyl-2-Pentanone
Concen: 260.948 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

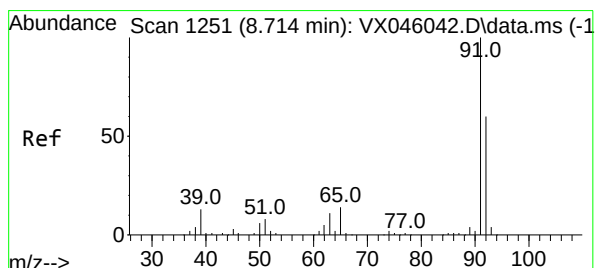
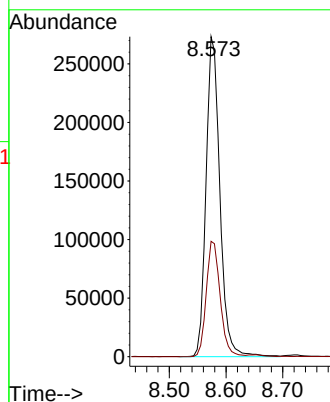
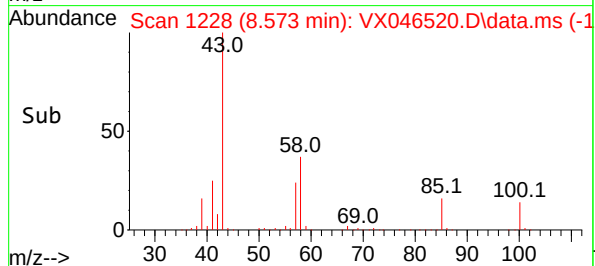
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 43 Resp: 462924
Ion Ratio Lower Upper
43 100
58 36.3 28.9 43.3

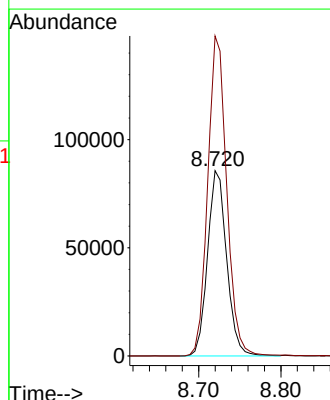
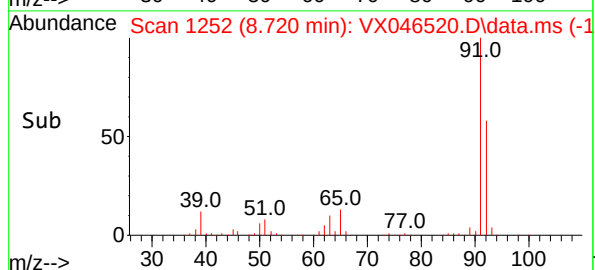
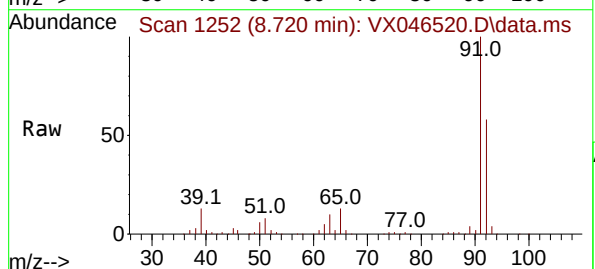
Manual Integrations
APPROVED

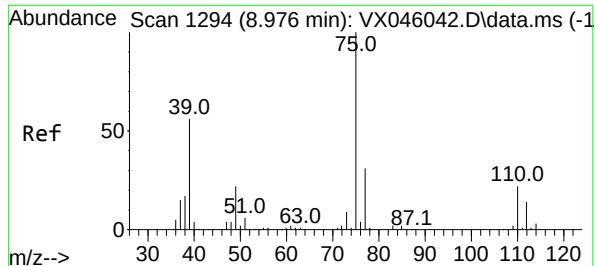
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#52
Toluene
Concen: 48.677 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 92 Resp: 138129
Ion Ratio Lower Upper
92 100
91 171.9 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 51.223 ug/l

RT: 8.982 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 75 Resp: 8469

Ion Ratio Lower Upper

75 100

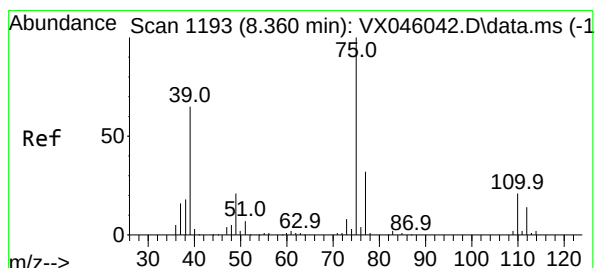
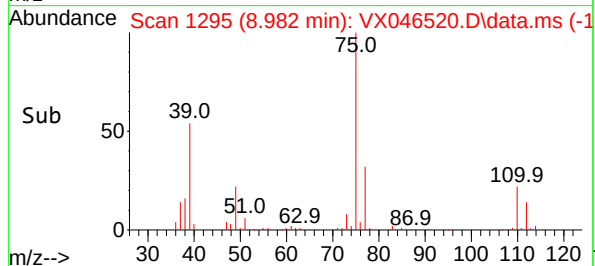
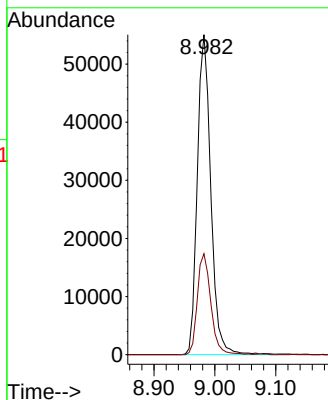
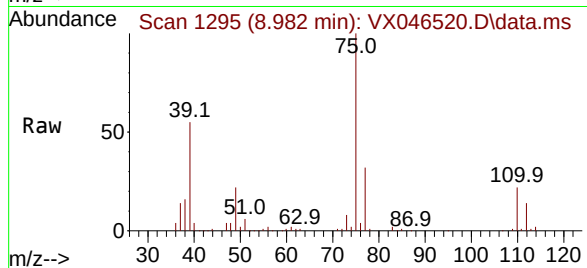
77 31.5 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#54

cis-1,3-Dichloropropene

Concen: 50.089 ug/l

RT: 8.372 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

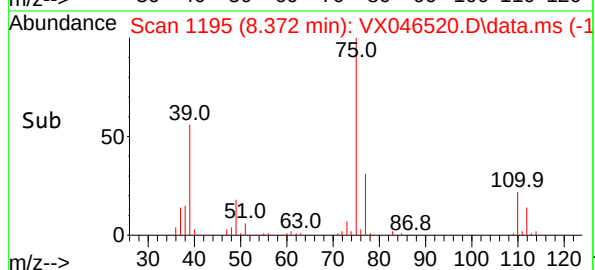
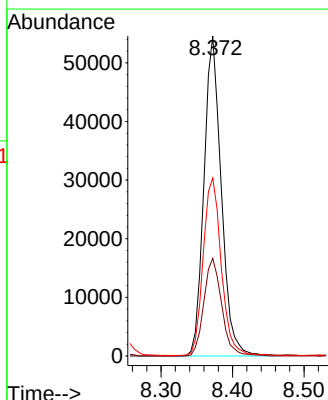
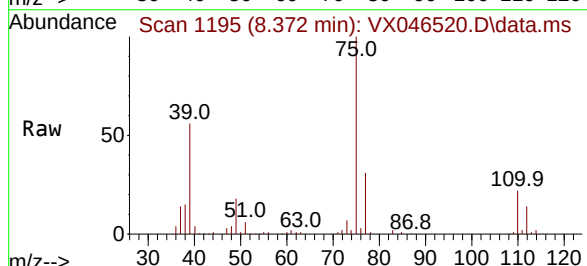
Tgt Ion: 75 Resp: 92087

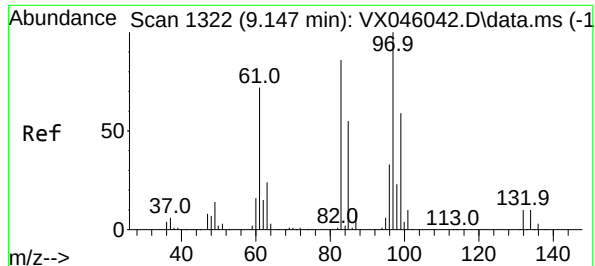
Ion Ratio Lower Upper

75 100

77 30.5 25.4 38.0

39 55.4 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 50.162 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 5714

Ion Ratio Lower Upper

97 100

83 88.2 69.0 103.6

85 55.0 44.3 66.5

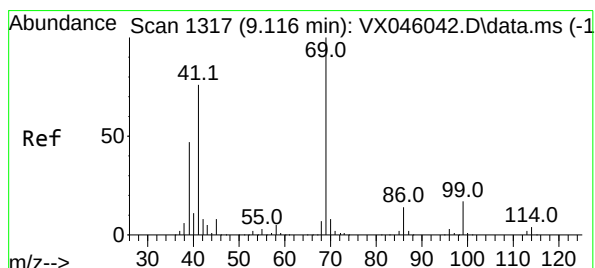
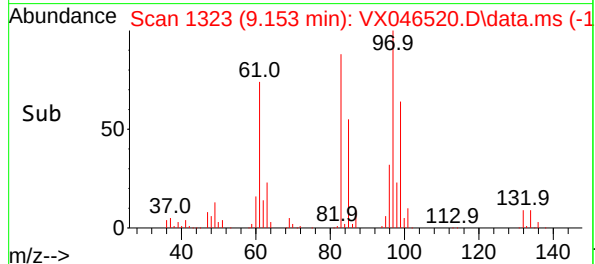
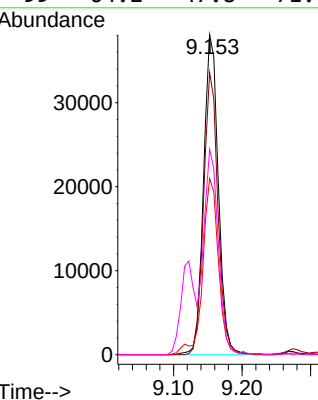
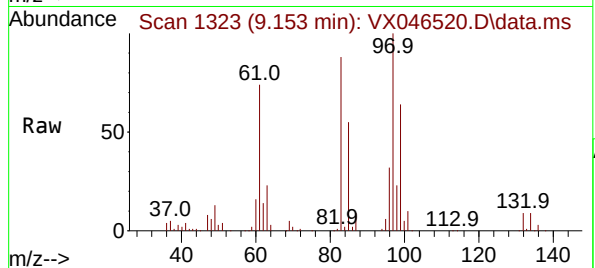
99 64.2 47.8 71.6

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#56

Ethyl methacrylate

Concen: 51.943 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

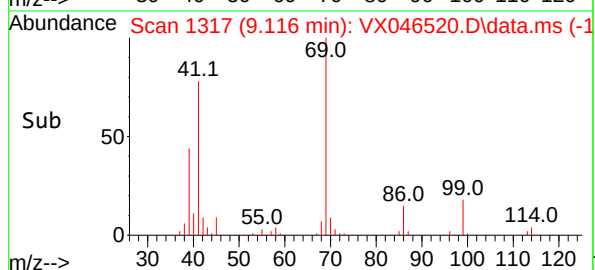
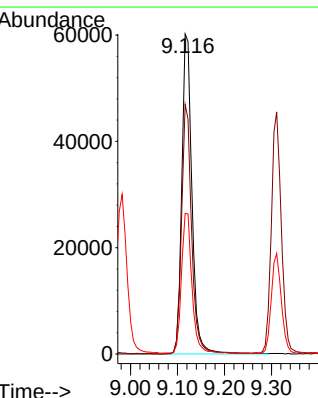
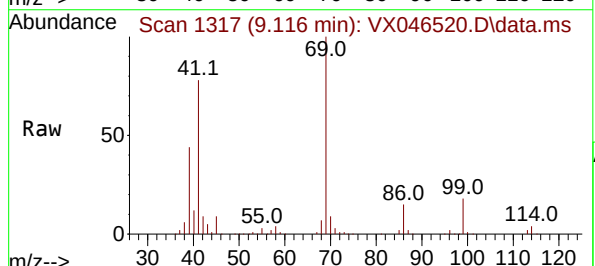
Tgt Ion: 69 Resp: 91058

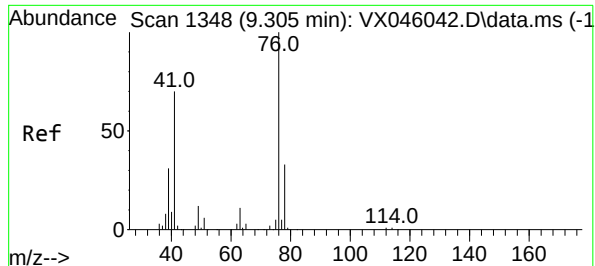
Ion Ratio Lower Upper

69 100

41 77.1 60.8 91.2

39 45.6 39.0 58.6





#57

1,3-Dichloropropane

Concen: 49.312 ug/l

RT: 9.311 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 9927

Ion Ratio Lower Upper

76 100

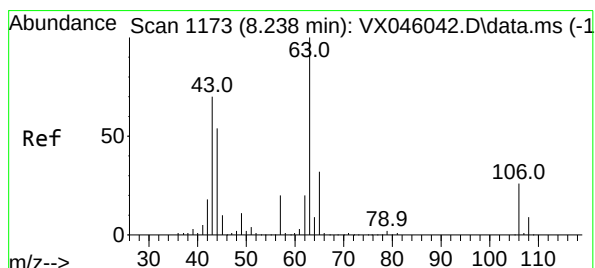
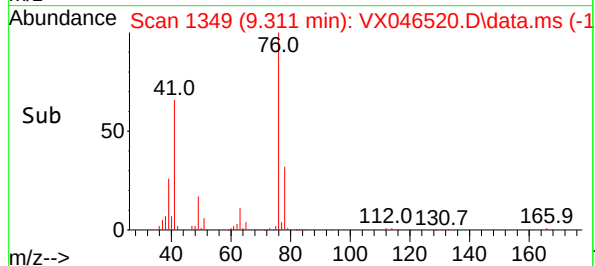
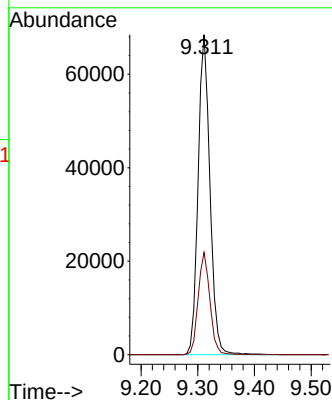
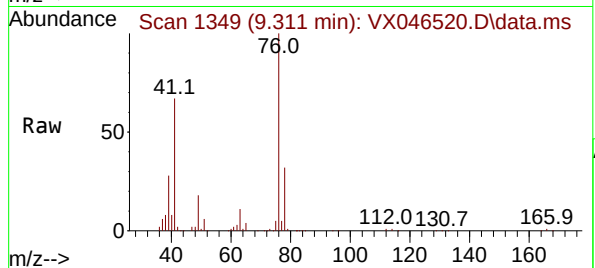
78 31.5 26.3 39.5

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#58

2-Chloroethyl Vinyl ether

Concen: 258.184 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046520.D

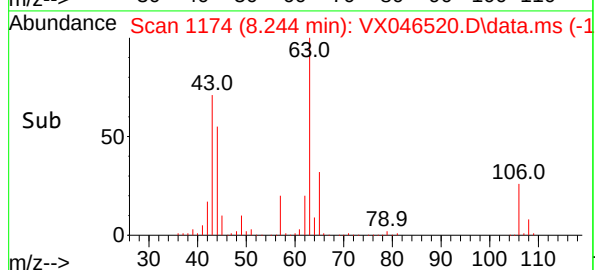
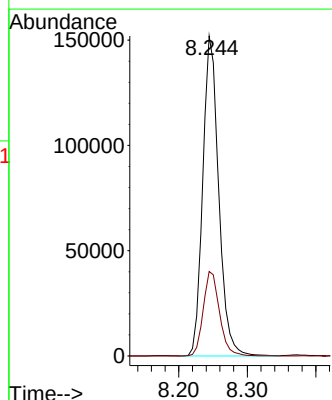
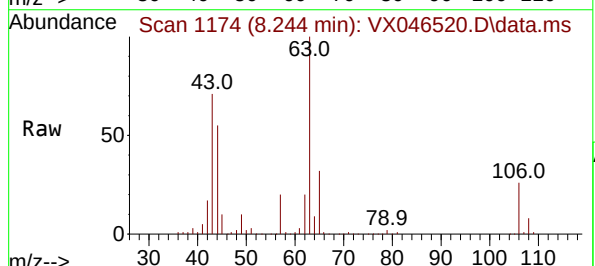
Acq: 06 Jun 2025 10:40

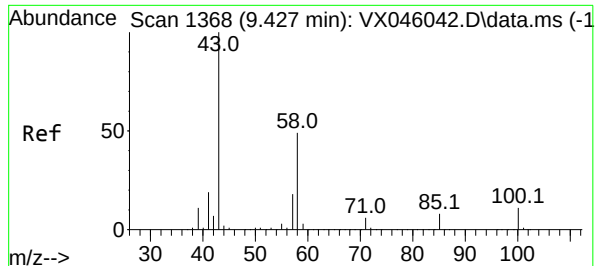
Tgt Ion: 63 Resp: 246532

Ion Ratio Lower Upper

63 100

106 27.0 21.5 32.3





#59

2-Hexanone

Concen: 261.746 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 333019

Ion Ratio Lower Upper

43 100

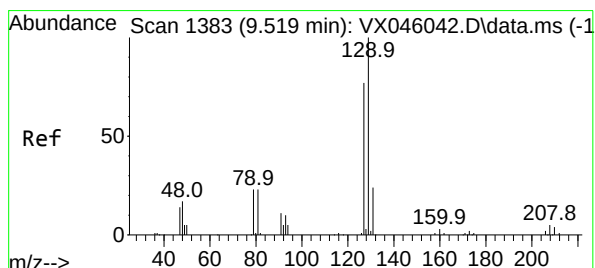
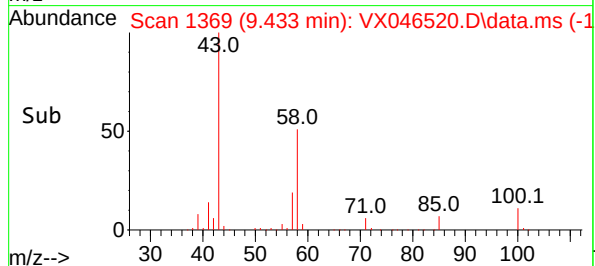
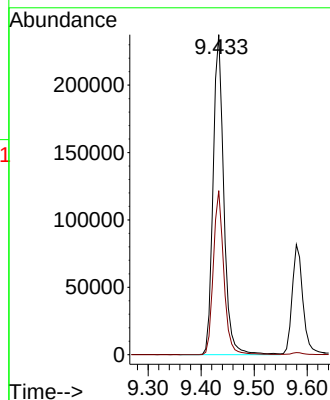
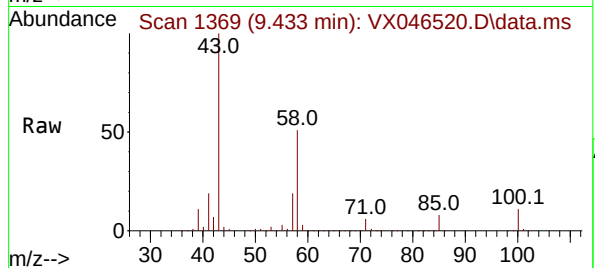
58 50.3 24.9 74.6

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Supervised By :Mahesh Dadoda 06/09/2025



#60

Dibromochloromethane

Concen: 50.307 ug/l

RT: 9.525 min Scan# 1384

Delta R.T. 0.000 min

Lab File: VX046520.D

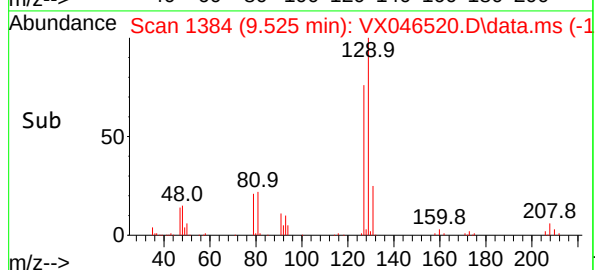
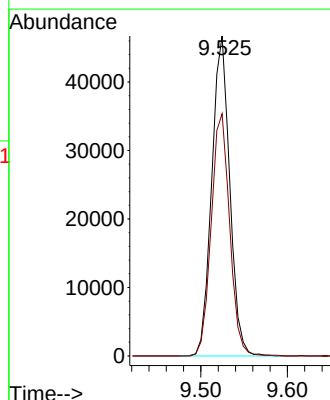
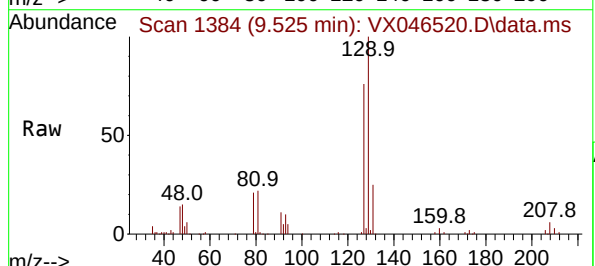
Acq: 06 Jun 2025 10:40

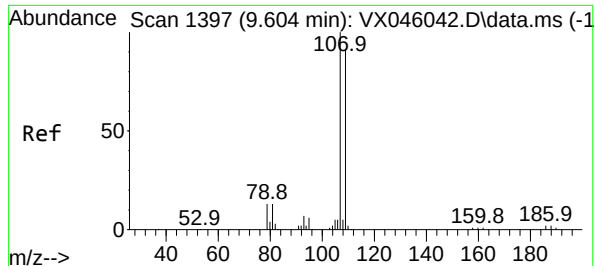
Tgt Ion:129 Resp: 67410

Ion Ratio Lower Upper

129 100

127 77.5 39.3 117.8





#61

1,2-Dibromoethane

Concen: 48.669 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:107 Resp: 57774

Ion Ratio Lower Upper

107 100

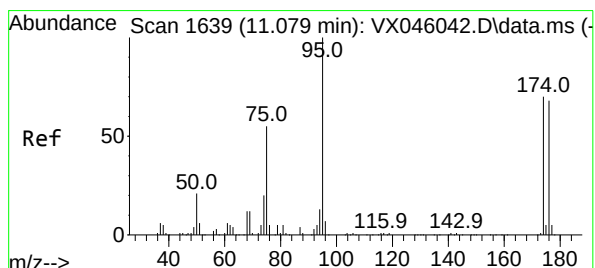
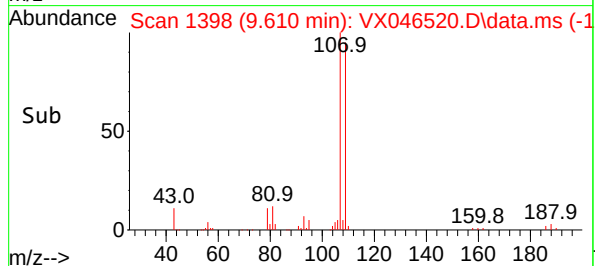
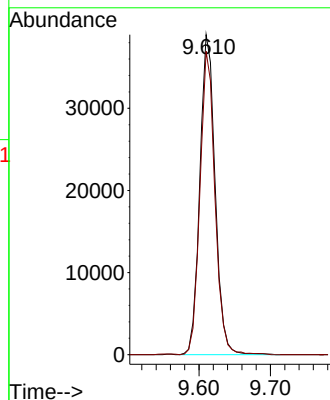
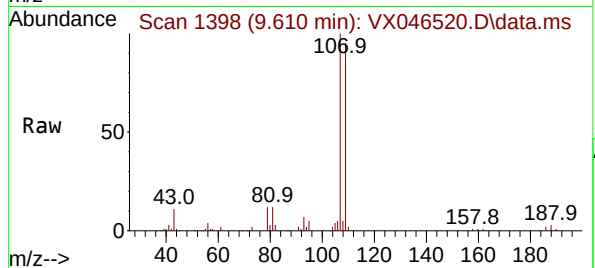
109 93.0 73.3 109.9

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#62

4-Bromofluorobenzene

Concen: 49.137 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

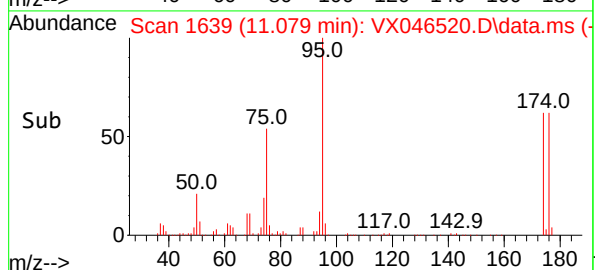
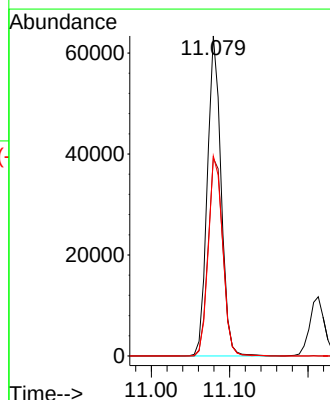
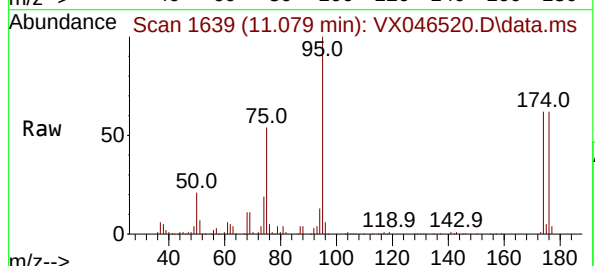
Tgt Ion: 95 Resp: 76988

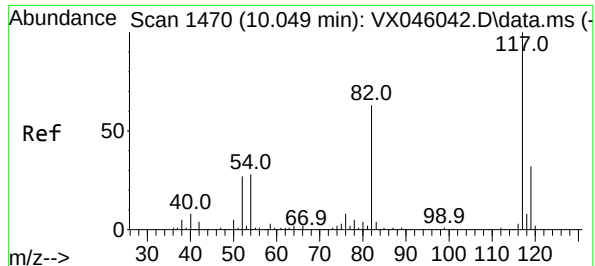
Ion Ratio Lower Upper

95 100

174 66.0 0.0 135.8

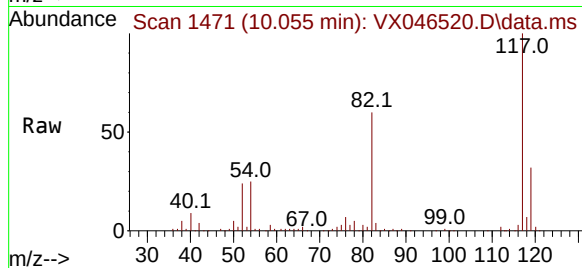
176 65.3 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

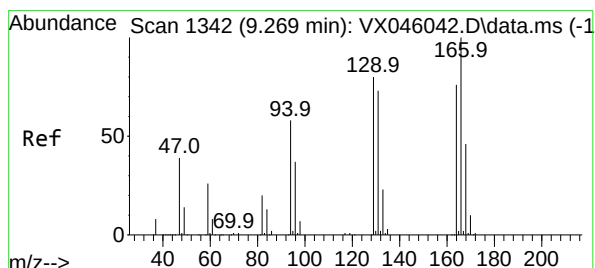
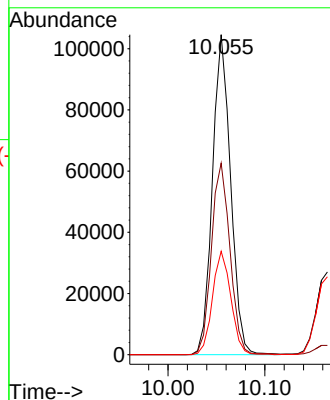
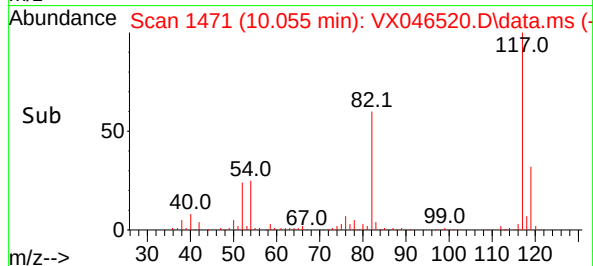
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:117 Resp: 136564
Ion Ratio Lower Upper
117 100
82 59.9 50.6 76.0
119 32.3 25.8 38.6

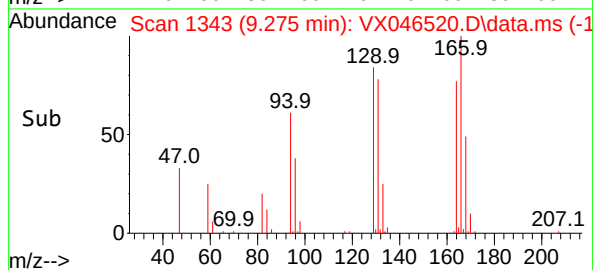
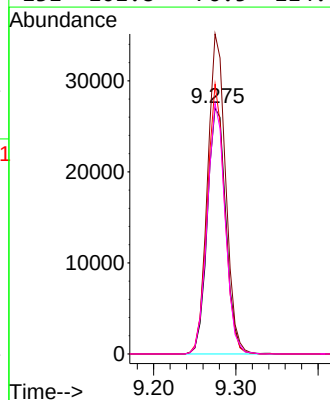
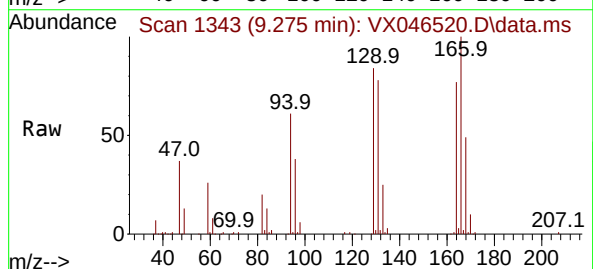
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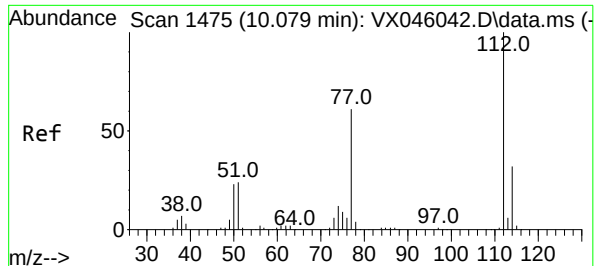
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#64
Tetrachloroethene
Concen: 46.308 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion:164 Resp: 42288
Ion Ratio Lower Upper
164 100
166 130.2 105.0 157.6
129 109.7 83.5 125.3
131 101.8 76.5 114.7





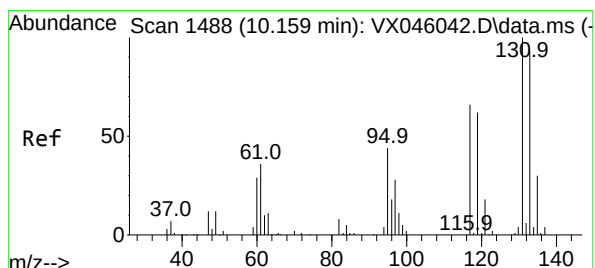
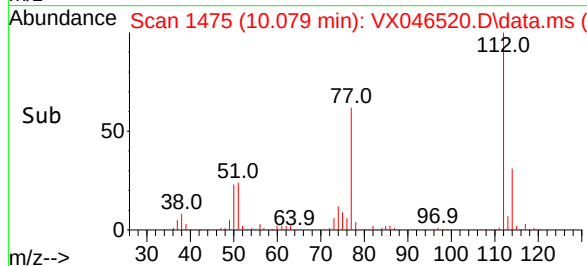
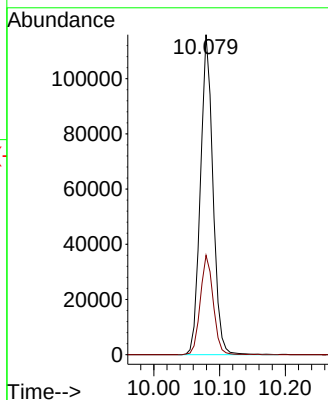
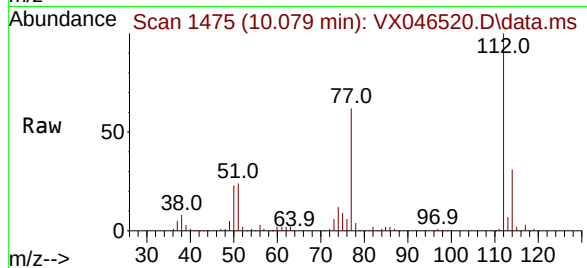
#65
Chlorobenzene
Concen: 47.857 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 153710
Ion Ratio Lower Upper
112 100
114 31.0 25.4 38.2

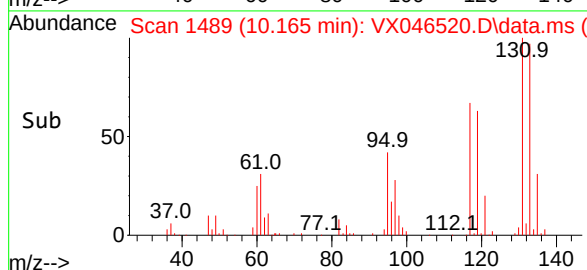
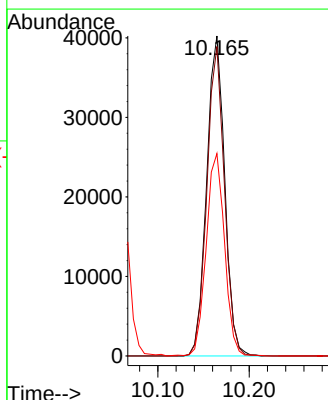
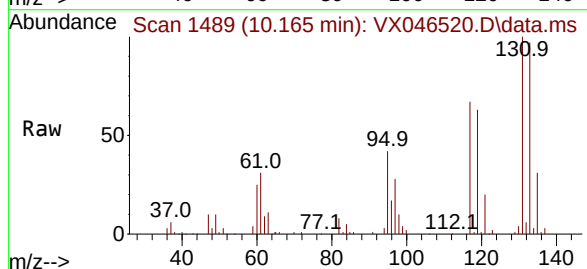
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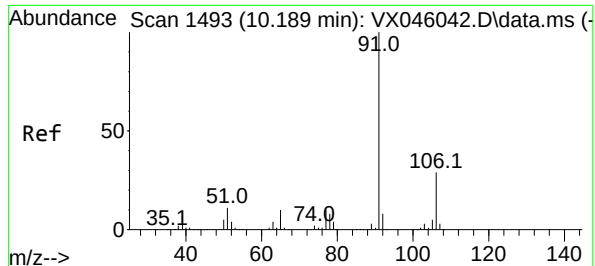
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 50.666 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion:131 Resp: 54990
Ion Ratio Lower Upper
131 100
133 94.2 47.3 141.9
119 64.4 31.6 95.0





#67

Ethyl Benzene

Concen: 49.157 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 275620

Ion Ratio Lower Upper

91 100

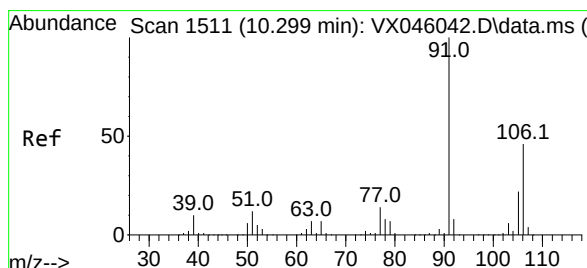
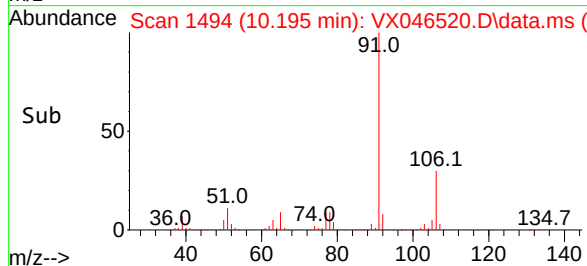
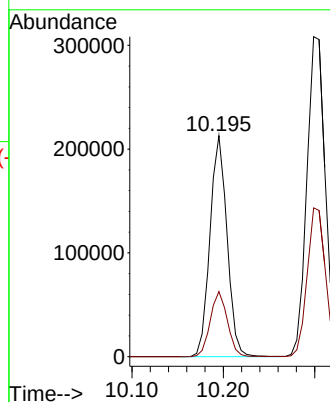
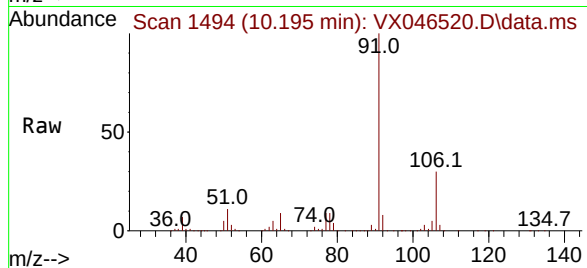
106 29.5 23.4 35.2

Manual Integrations

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#68

m/p-Xylenes

Concen: 98.982 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX046520.D

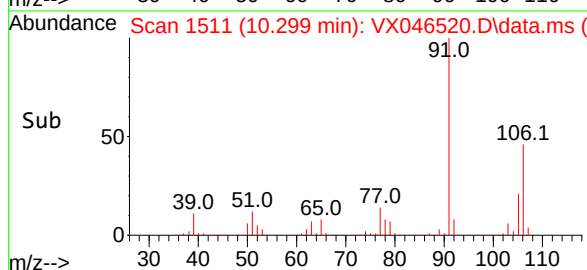
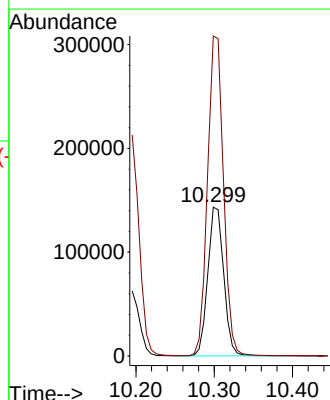
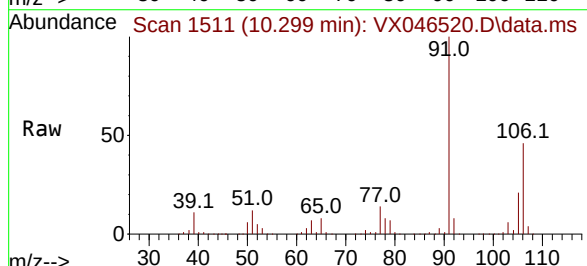
Acq: 06 Jun 2025 10:40

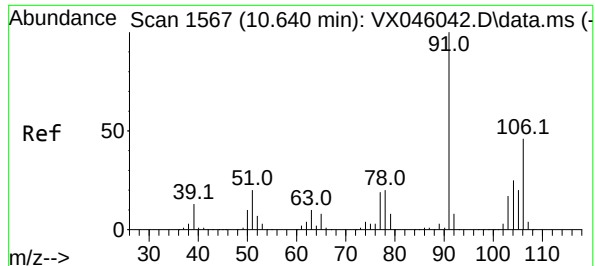
Tgt Ion:106 Resp: 201325

Ion Ratio Lower Upper

106 100

91 216.3 171.2 256.8





#69

o-Xylene

Concen: 49.696 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:106 Resp: 97769

Ion Ratio Lower Upper

106 100

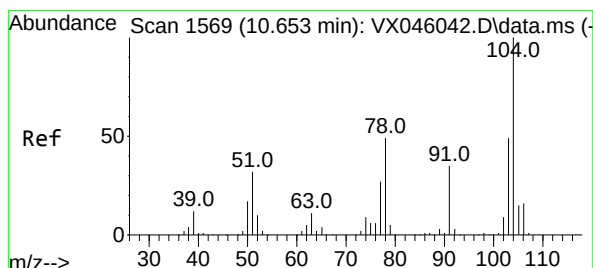
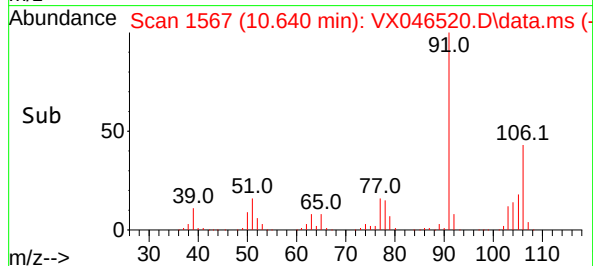
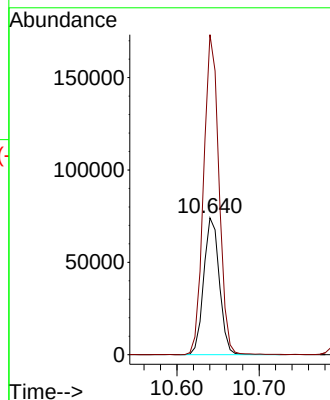
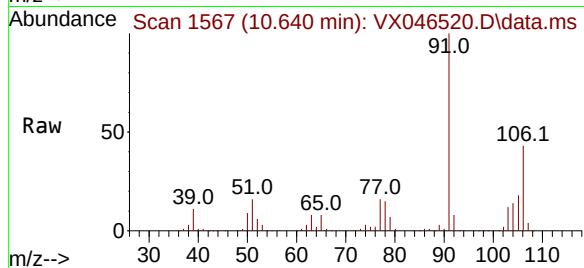
91 229.7 112.7 338.1

Manual Integrations

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#70

Styrene

Concen: 50.968 ug/l

RT: 10.658 min Scan# 1570

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

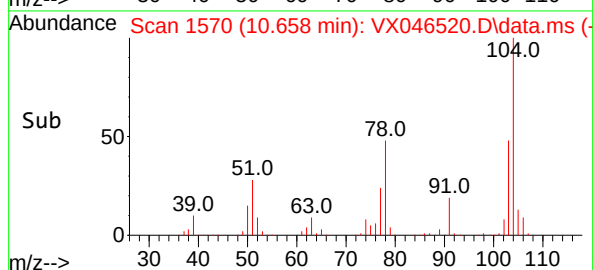
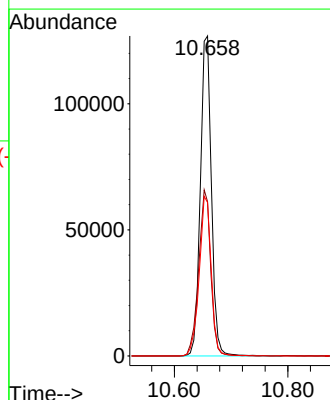
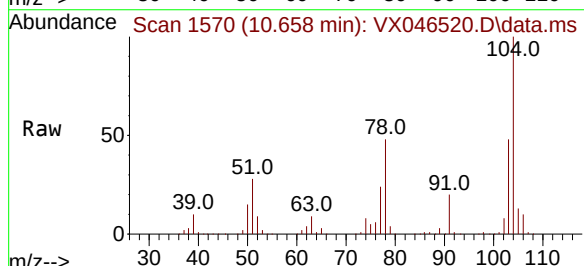
Tgt Ion:104 Resp: 171642

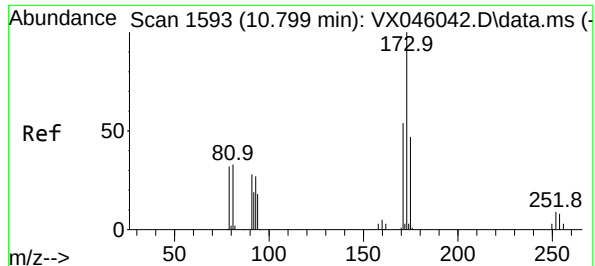
Ion Ratio Lower Upper

104 100

78 56.6 45.7 68.5

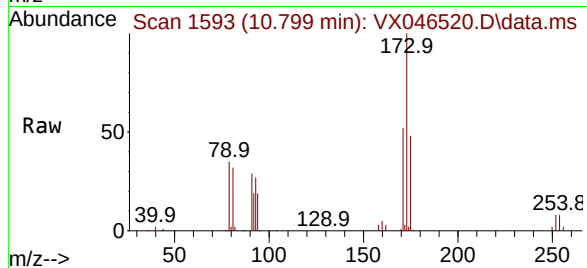
103 54.2 43.7 65.5





#71
Bromoform
Concen: 51.382 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

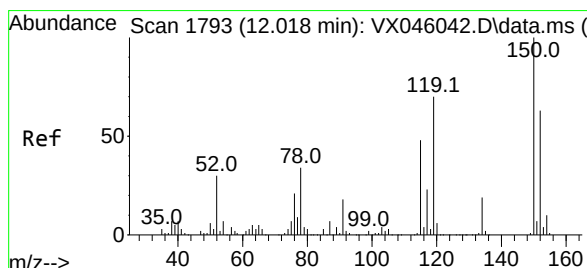
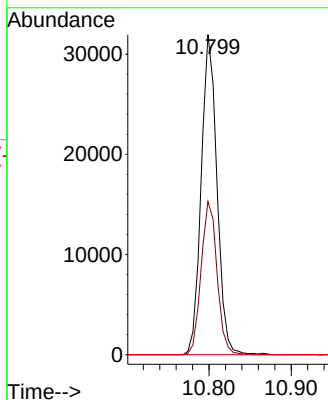
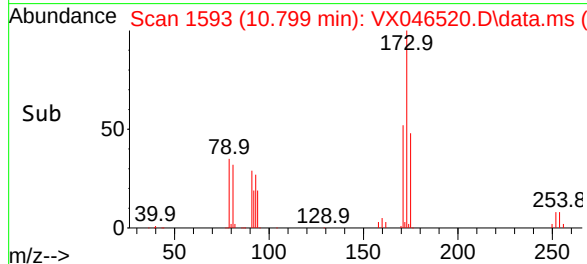
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:173 Resp: 4252
Ion Ratio Lower Upper
173 100
175 48.3 23.4 70.0
254 0.0 0.0 0.0

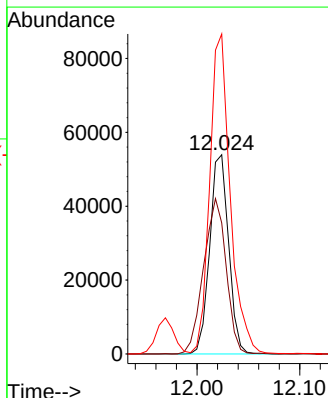
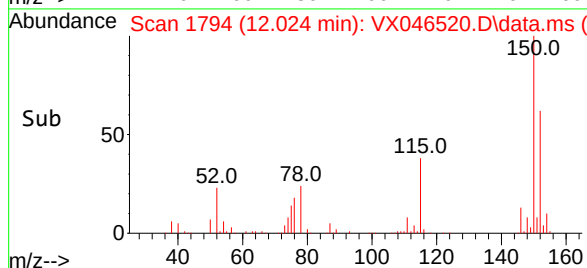
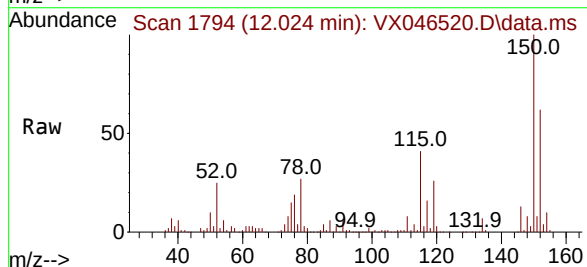
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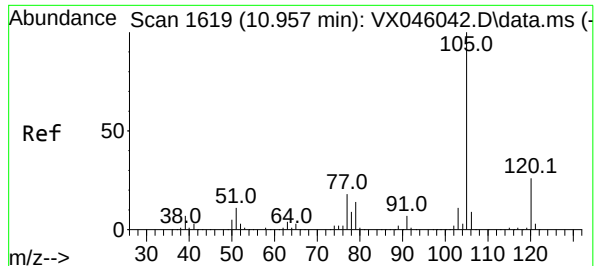
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion:152 Resp: 68831
Ion Ratio Lower Upper
152 100
115 92.9 46.9 140.7
150 173.7 0.0 351.0





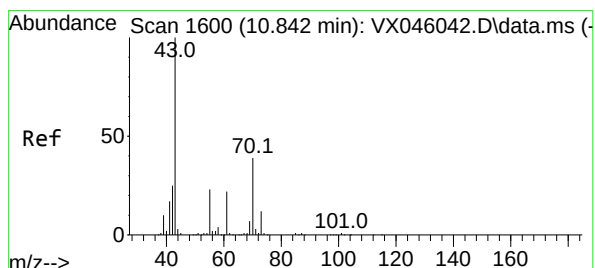
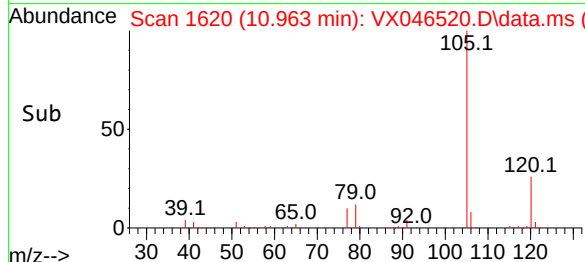
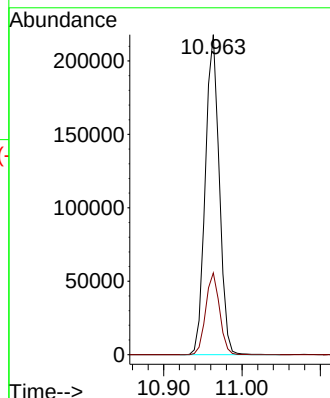
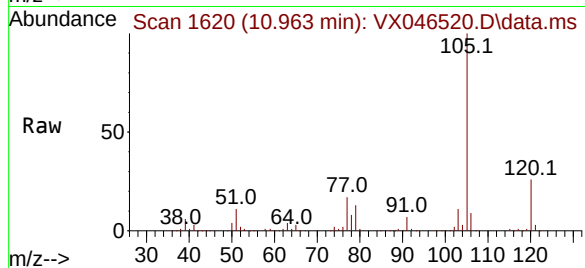
#73
Isopropylbenzene
Concen: 49.729 ug/l
RT: 10.963 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 269074
Ion Ratio Lower Upper
105 100
120 25.3 12.8 38.4

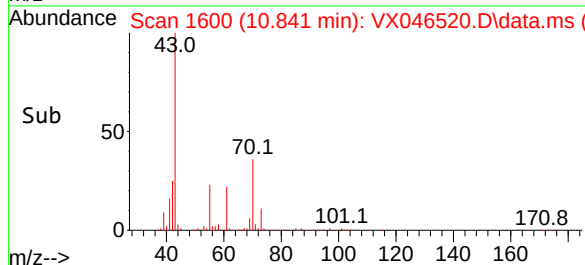
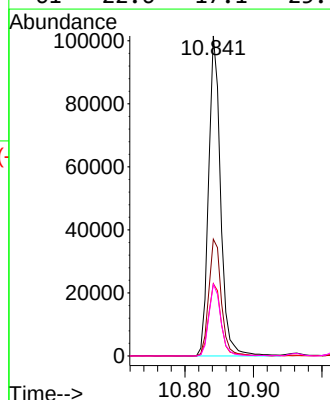
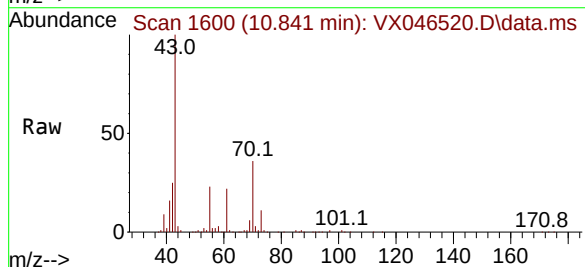
Manual Integrations
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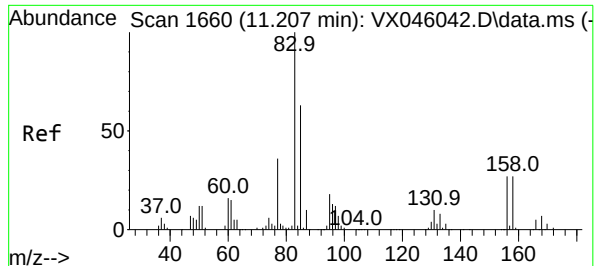
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#74
N-ethyl acetate
Concen: 52.072 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 43 Resp: 124077
Ion Ratio Lower Upper
43 100
70 38.3 30.9 46.3
55 23.5 18.7 28.1
61 22.6 17.1 25.7





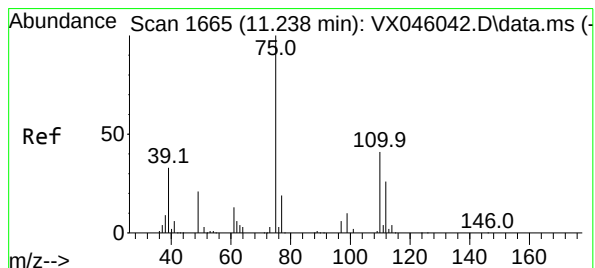
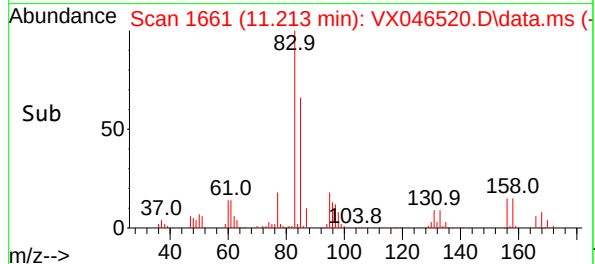
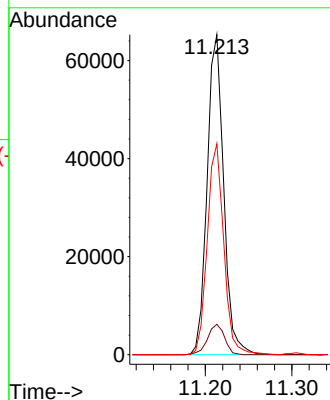
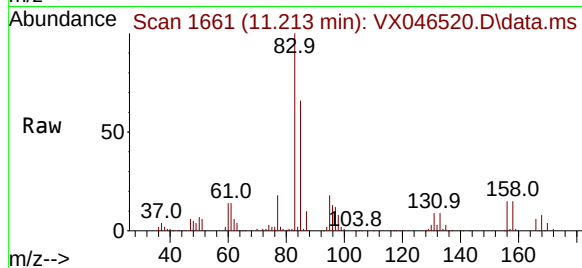
#75
1,1,2,2-Tetrachloroethane
Concen: 49.967 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 86539
Ion Ratio Lower Upper
83 100
131 9.7 5.0 14.9
85 65.8 31.9 95.7

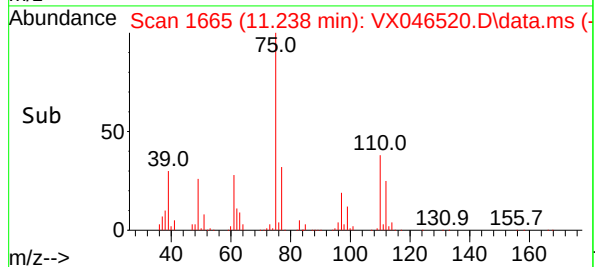
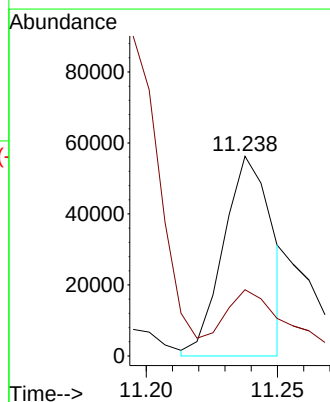
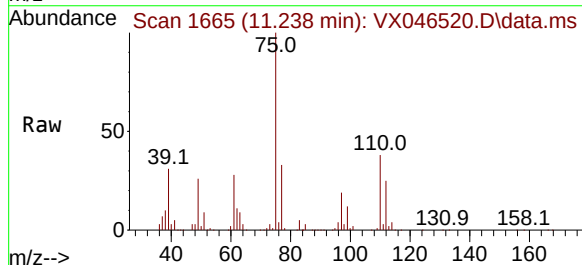
Manual Integrations
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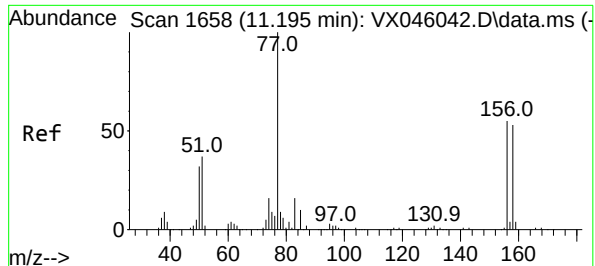
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#76
1,2,3-Trichloropropane
Concen: 48.702 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 75 Resp: 72182
Ion Ratio Lower Upper
75 100
77 43.7 20.5 61.5





#77

Bromobenzene

Concen: 48.295 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

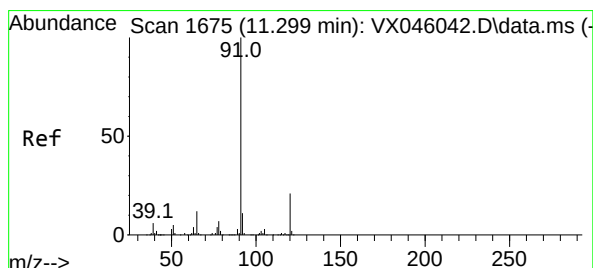
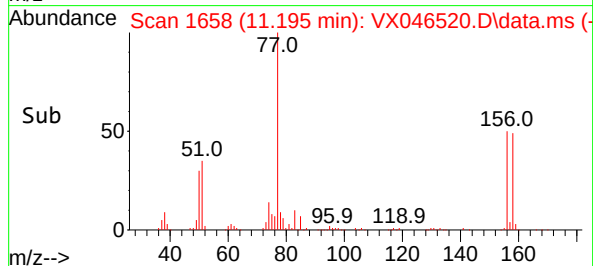
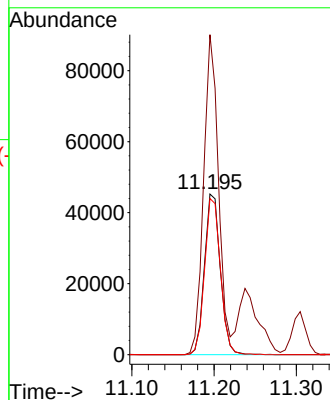
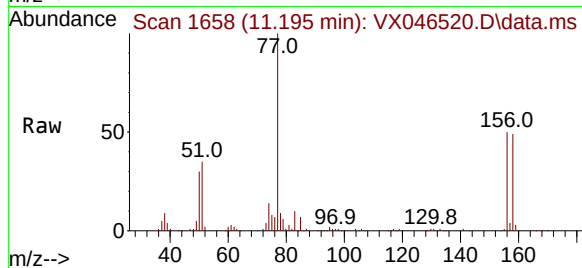
VSTDICCC050

Tgt Ion:	156	Resp:	6065
Ion Ratio	Lower	Upper	
156	100		
77	186.0	92.8	278.3
158	97.1	48.8	146.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#78

n-propylbenzene

Concen: 49.325 ug/l

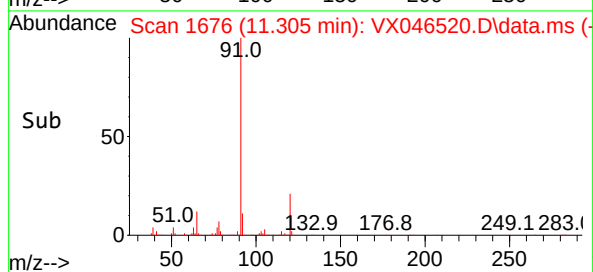
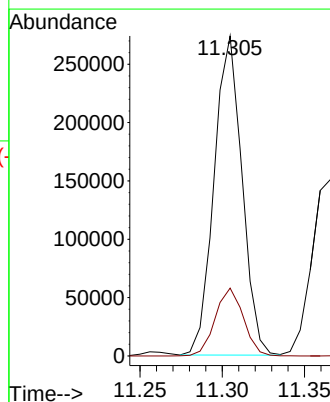
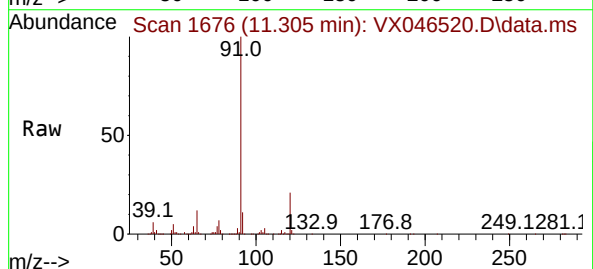
RT: 11.305 min Scan# 1676

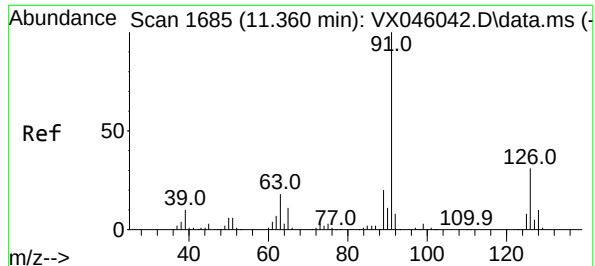
Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Tgt Ion:	91	Resp:	323032
Ion Ratio	Lower	Upper	
91	100		
120	21.4	10.8	32.4





#79

2-Chlorotoluene

Concen: 48.549 ug/l

RT: 11.366 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 19173

Ion Ratio Lower Upper

91 100

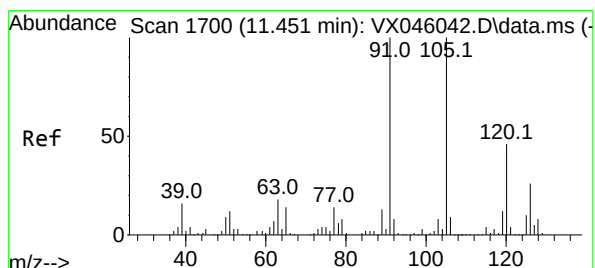
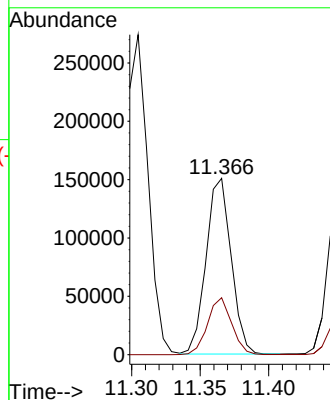
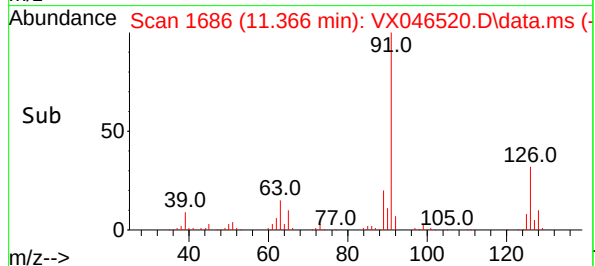
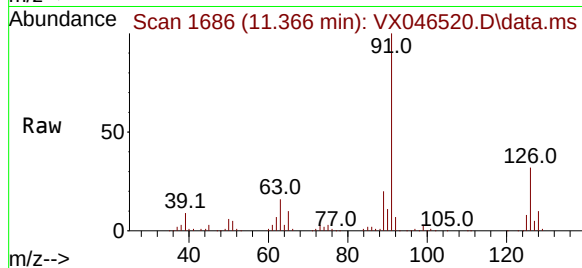
126 31.3 15.6 46.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#80

1,3,5-Trimethylbenzene

Concen: 49.500 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046520.D

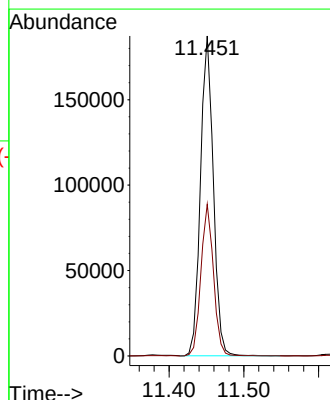
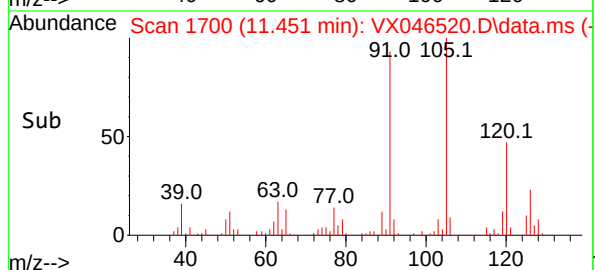
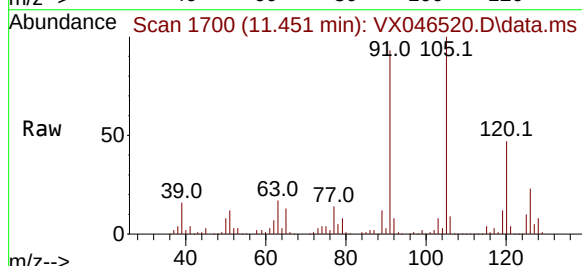
Acq: 06 Jun 2025 10:40

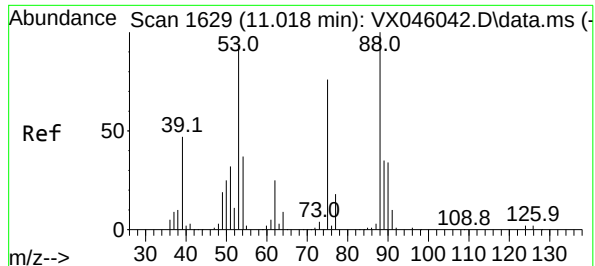
Tgt Ion:105 Resp: 223189

Ion Ratio Lower Upper

105 100

120 46.5 23.1 69.2





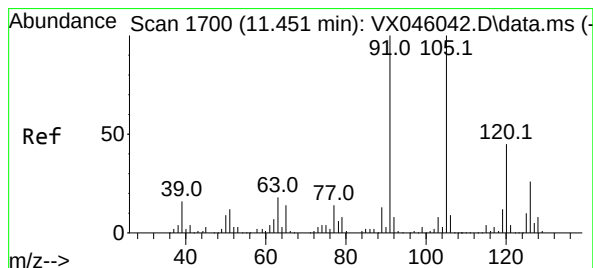
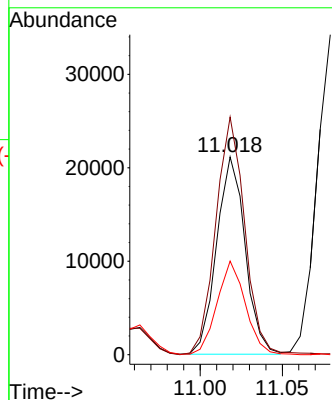
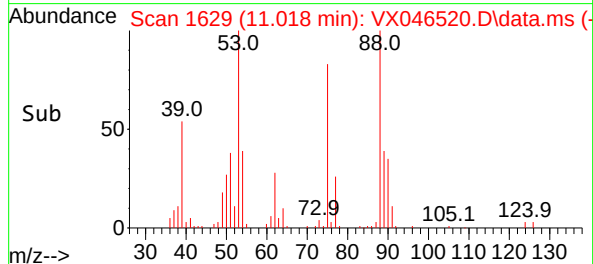
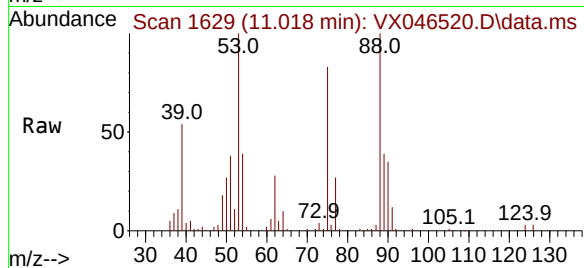
#81
trans-1,4-Dichloro-2-butene
Concen: 50.367 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 25450
Ion Ratio Lower Upper
75 100
53 123.4 100.5 150.7
89 47.3 37.0 55.6

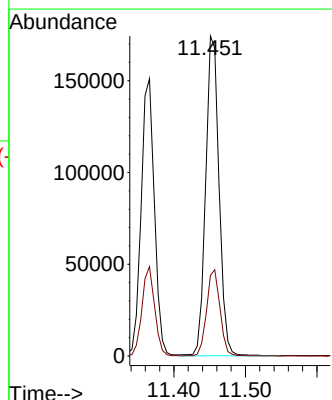
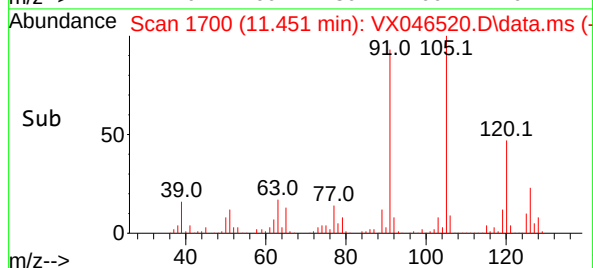
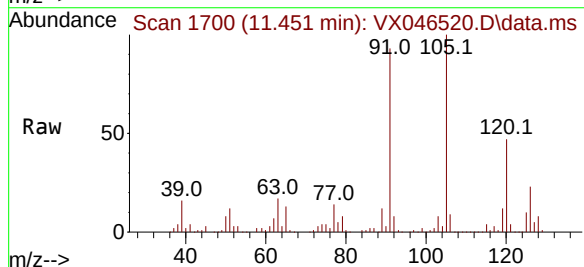
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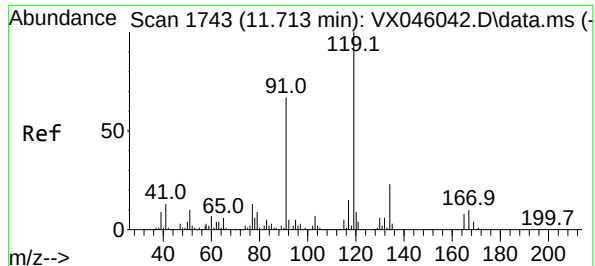
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#82
4-Chlorotoluene
Concen: 48.414 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 91 Resp: 226629
Ion Ratio Lower Upper
91 100
126 27.0 13.3 39.8





#83

tert-Butylbenzene

Concen: 49.285 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:119 Resp: 226214

Ion Ratio Lower Upper

119 100

91 64.1 32.9 98.7

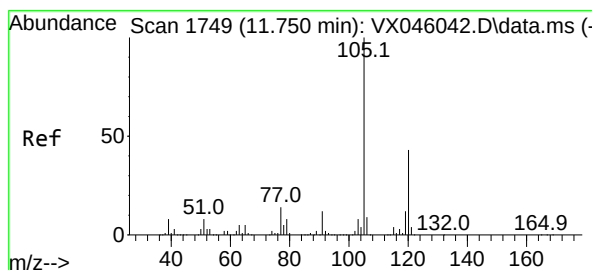
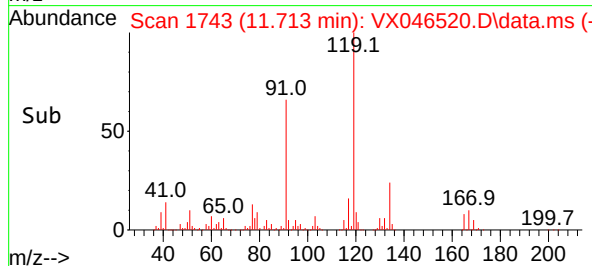
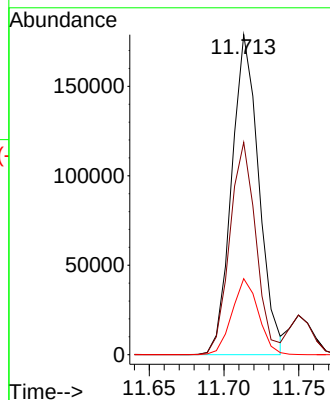
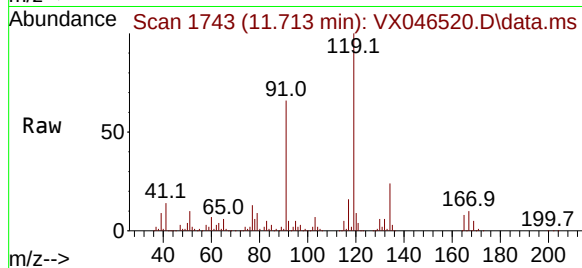
134 23.0 11.4 34.1

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#84

1,2,4-Trimethylbenzene

Concen: 49.131 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX046520.D

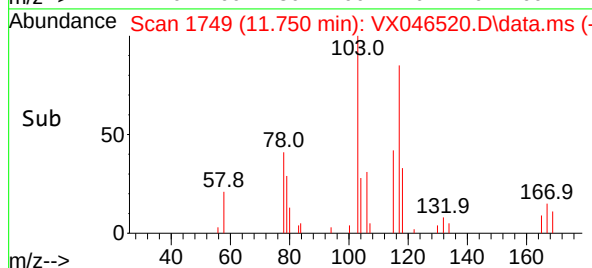
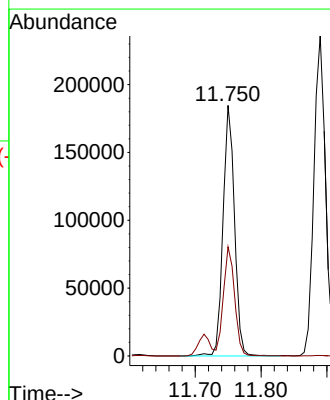
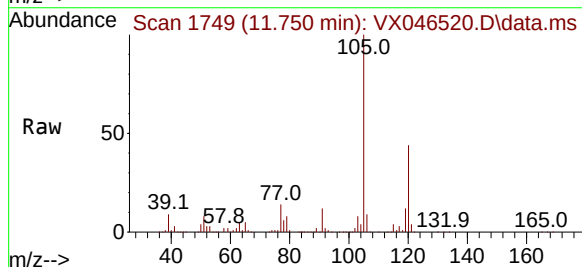
Acq: 06 Jun 2025 10:40

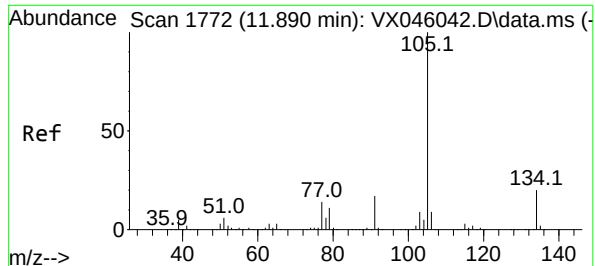
Tgt Ion:105 Resp: 224100

Ion Ratio Lower Upper

105 100

120 42.3 21.2 63.6





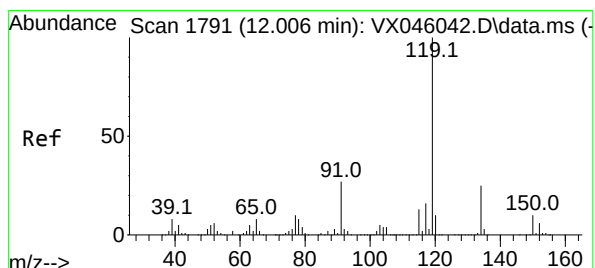
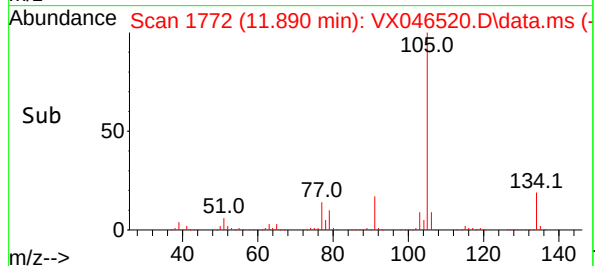
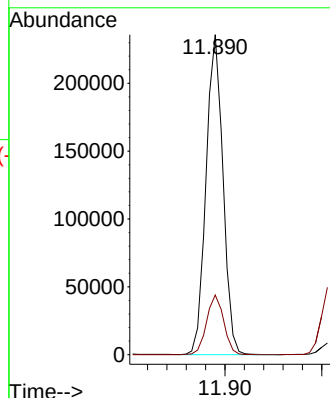
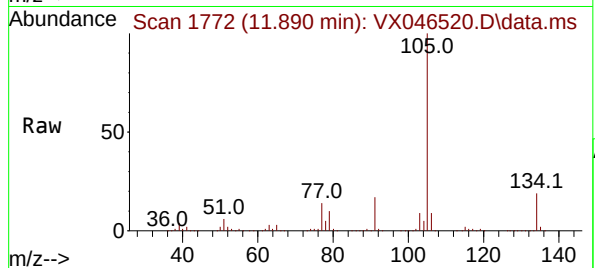
#85
sec-Butylbenzene
Concen: 48.696 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 287190
Ion Ratio Lower Upper
105 100
134 18.9 9.7 29.1

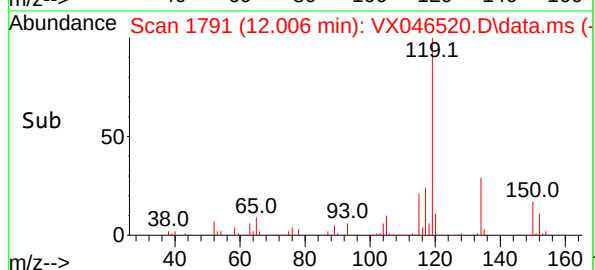
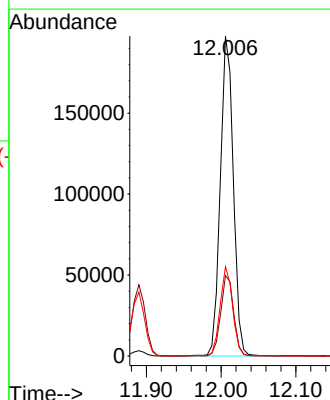
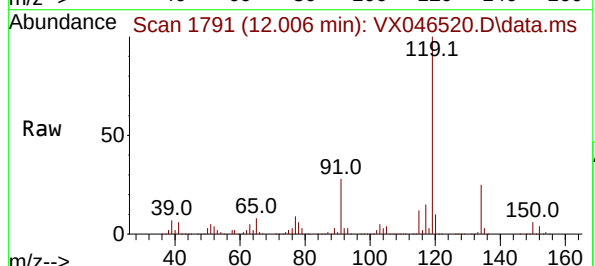
Manual Integrations
APPROVED

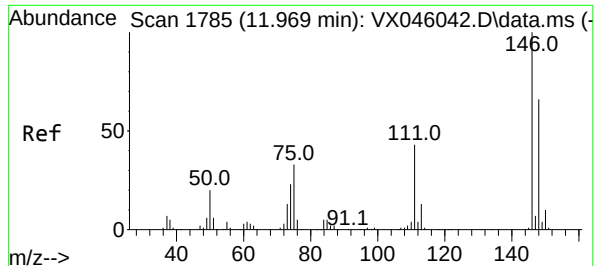
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#86
p-Isopropyltoluene
Concen: 48.775 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion:119 Resp: 239809
Ion Ratio Lower Upper
119 100
134 25.0 12.5 37.5
91 27.1 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 47.520 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 115889

Ion Ratio Lower Upper

146 100

111 44.0 22.1 66.3

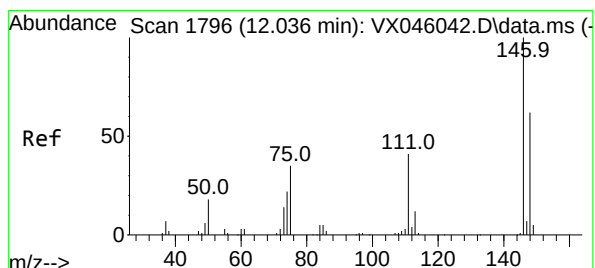
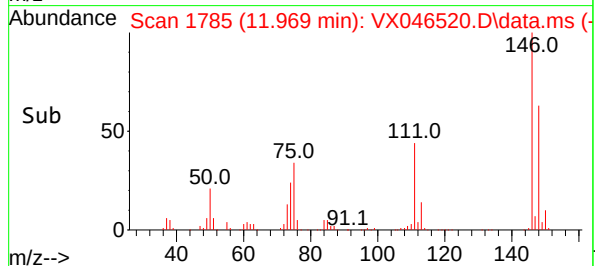
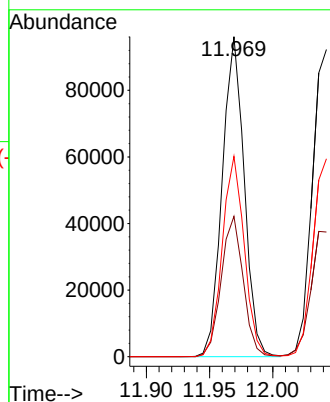
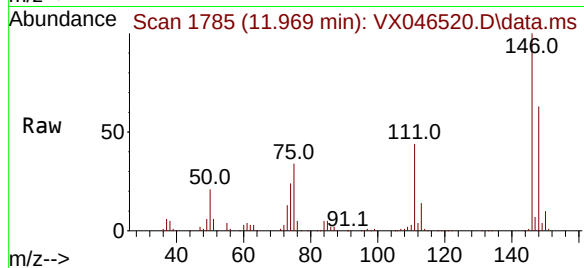
148 62.7 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 45.612 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

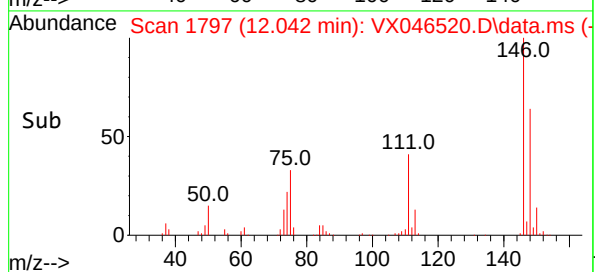
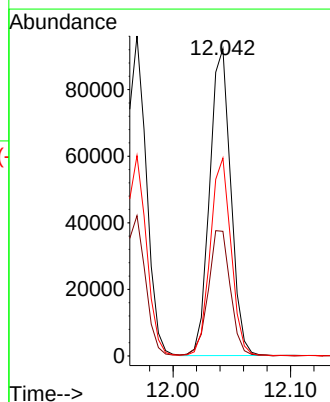
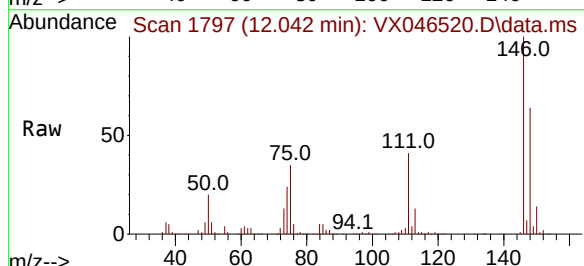
Tgt Ion:146 Resp: 115263

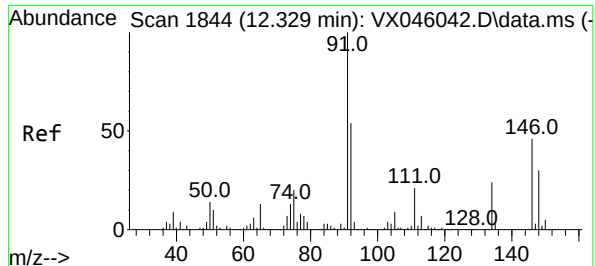
Ion Ratio Lower Upper

146 100

111 42.8 21.3 63.9

148 64.2 31.9 95.5





#89

n-Butylbenzene

Concen: 47.808 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

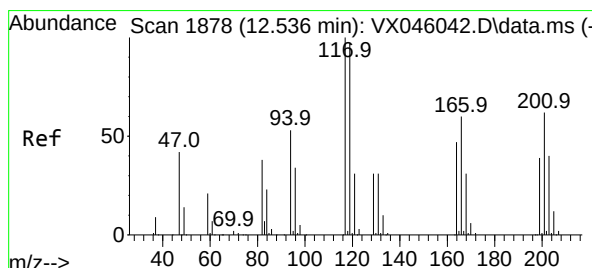
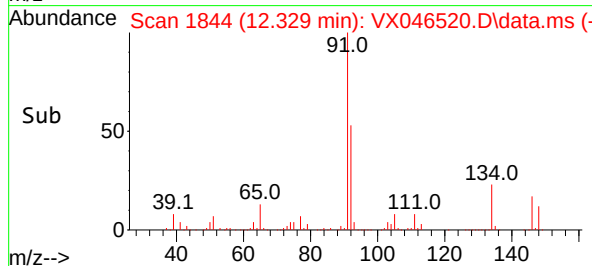
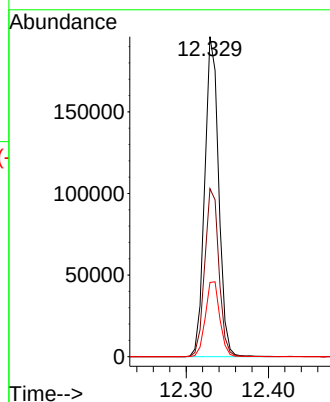
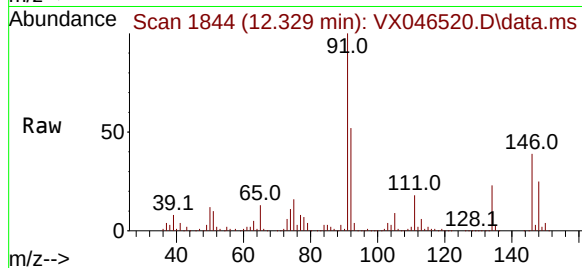
Tgt Ion:	91	Resp:	230830
Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.9	80.7
134	24.3	11.8	35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 48.027 ug/l

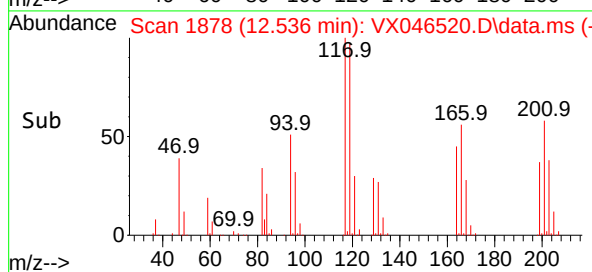
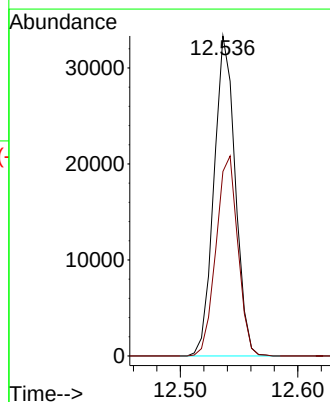
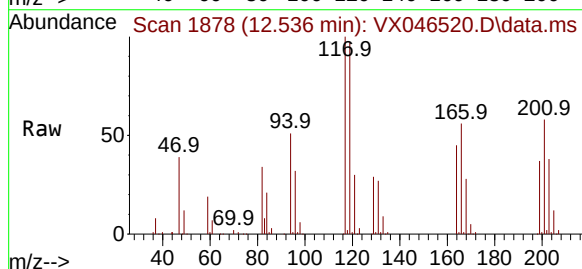
RT: 12.536 min Scan# 1878

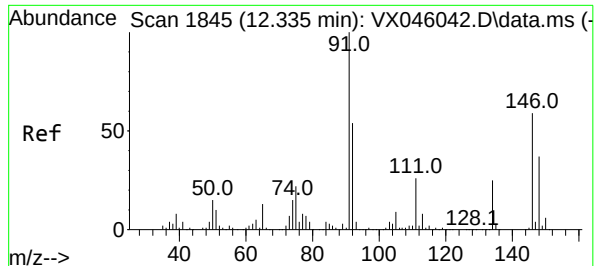
Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

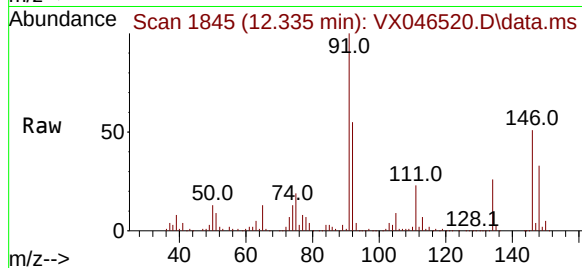
Tgt Ion:	117	Resp:	41969
Ion	Ratio	Lower	Upper
117	100		
201	64.3	31.6	94.7





#91
1,2-Dichlorobenzene
Concen: 47.923 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

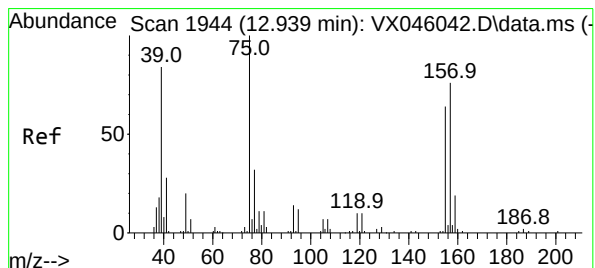
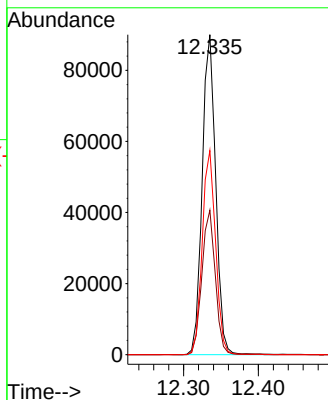
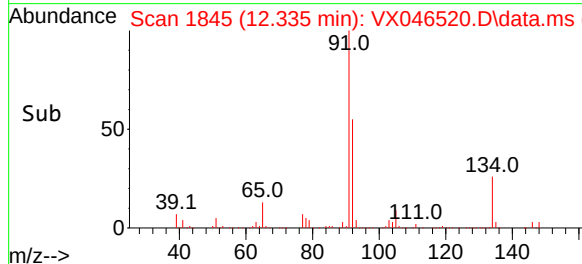
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:146 Resp: 11281
Ion Ratio Lower Upper
146 100
111 45.0 22.4 67.3
148 63.3 31.6 94.8

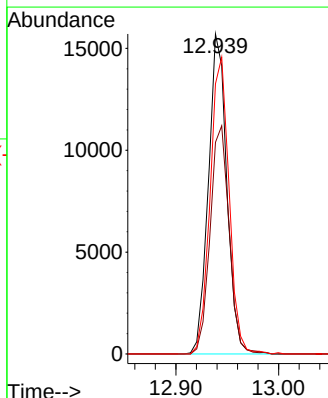
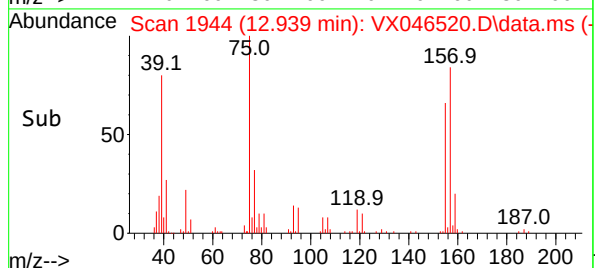
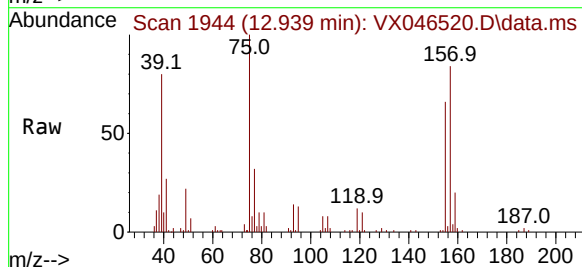
Manual Integrations
APPROVED

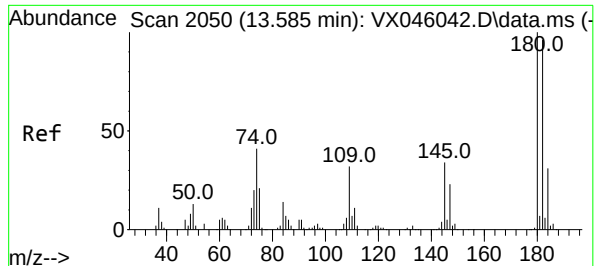
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 50.545 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

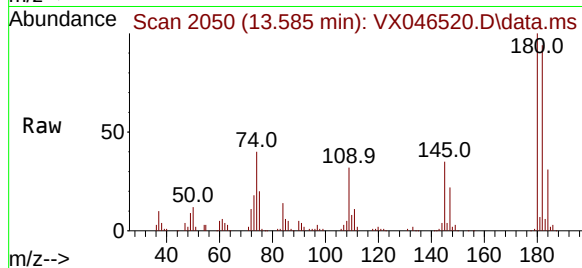
Tgt Ion: 75 Resp: 19603
Ion Ratio Lower Upper
75 100
155 73.0 34.9 104.8
157 95.0 43.8 131.4





#93
1,2,4-Trichlorobenzene
Concen: 46.149 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

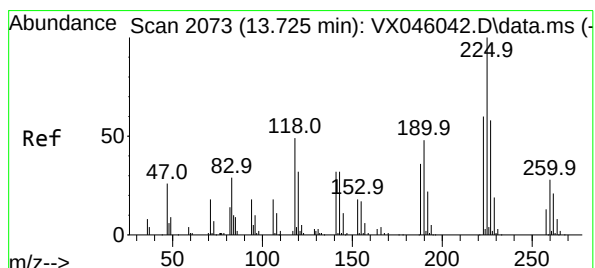
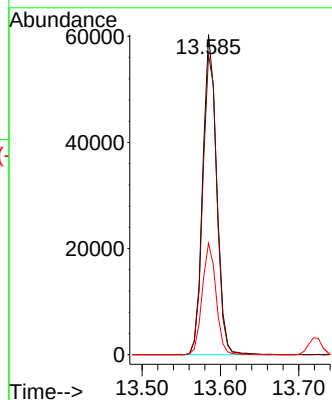
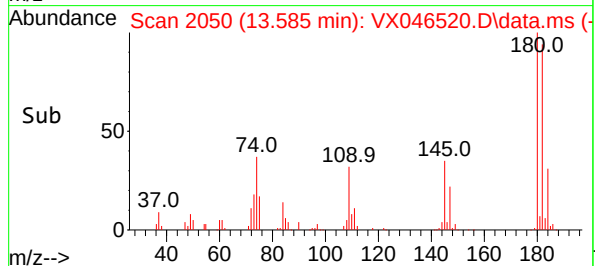
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



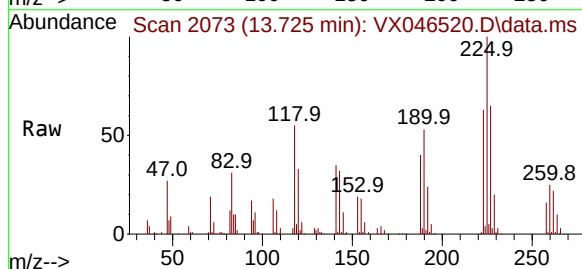
Tgt Ion:180 Resp: 74109
Ion Ratio Lower Upper
180 100
182 95.4 47.9 143.8
145 34.6 17.1 51.2

Manual Integrations
APPROVED

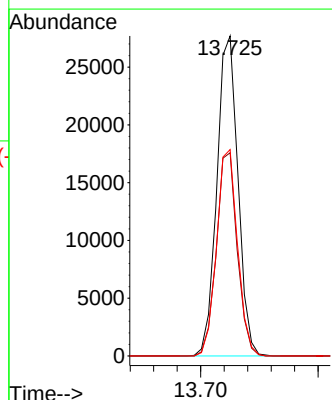
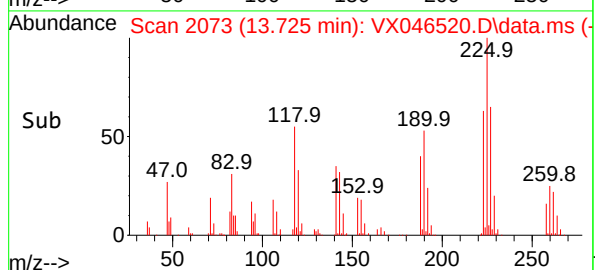
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

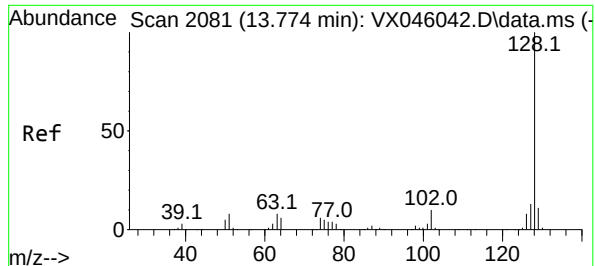


#94
Hexachlorobutadiene
Concen: 46.237 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40



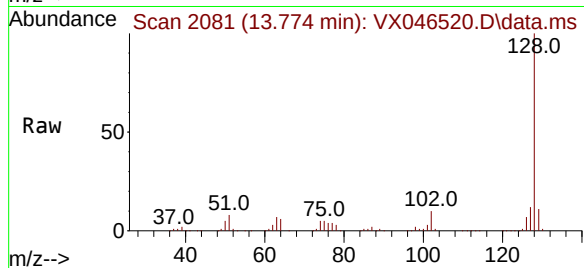
Tgt Ion:225 Resp: 34506
Ion Ratio Lower Upper
225 100
223 62.7 30.8 92.4
227 64.1 30.9 92.7





#95
Naphthalene
Concen: 50.359 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

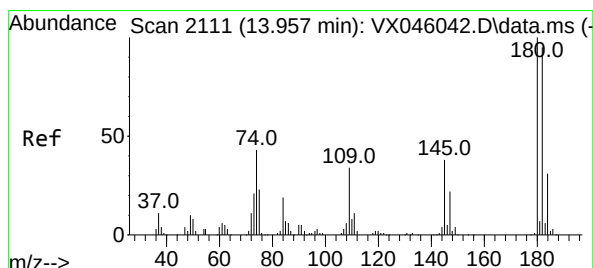
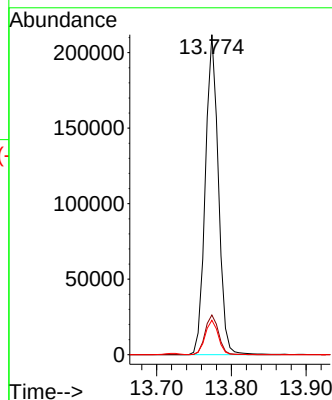
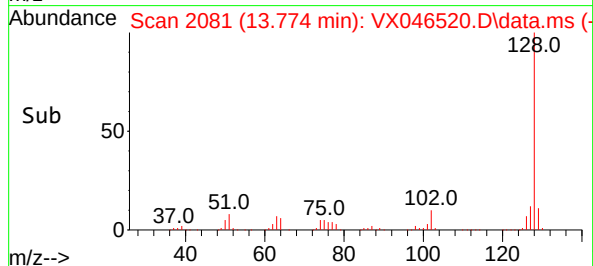
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



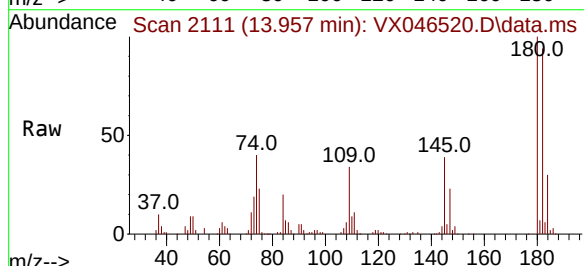
Tgt Ion:128 Resp: 256450
Ion Ratio Lower Upper
128 100
127 12.8 10.4 15.6
129 10.8 8.6 13.0

Manual Integrations
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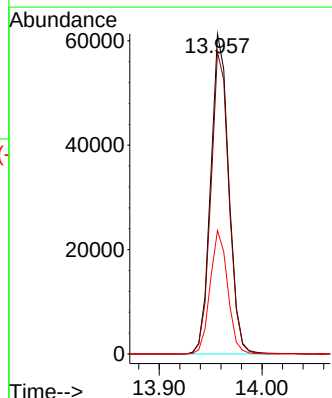
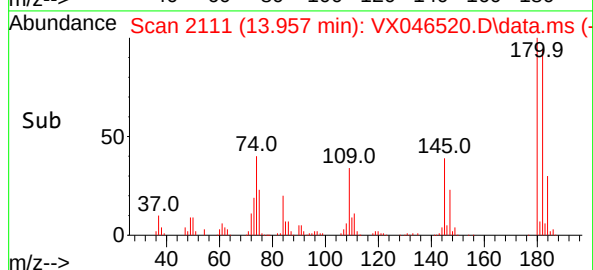
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#96
1,2,3-Trichlorobenzene
Concen: 46.684 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40



Tgt Ion:180 Resp: 75172
Ion Ratio Lower Upper
180 100
182 94.2 47.8 143.3
145 37.3 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046521.D
 Acq On : 06 Jun 2025 11:02
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Quant Time: Jun 06 16:41:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	86761	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	151628	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	131925	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	65495	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	143754	93.131	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 186.260%#			
35) Dibromofluoromethane	5.403	113	105237	94.377	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 188.760%#			
50) Toluene-d8	8.653	98	343367	93.402	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 186.800%#			
62) 4-Bromofluorobenzene	11.079	95	141905	93.296	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 186.600%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.185	85	110112	91.417	ug/l	98
3) Chloromethane	1.307	50	98615	89.947	ug/l	99
4) Vinyl Chloride	1.386	62	102609	93.885	ug/l	98
5) Bromomethane	1.617	94	44380	66.888	ug/l	98
6) Chloroethane	1.697	64	61909	87.305	ug/l	99
7) Trichlorofluoromethane	1.904	101	171395	94.783	ug/l	98
8) Diethyl Ether	2.154	74	60580	94.817	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.349	101	106901	93.832	ug/l	97
10) Methyl Iodide	2.471	142	129059	104.501	ug/l	100
11) Tert butyl alcohol	2.977	59	90368	527.609	ug/l	99
12) 1,1-Dichloroethene	2.337	96	97296	94.457	ug/l	95
13) Acrolein	2.252	56	101278	460.232	ug/l	100
14) Allyl chloride	2.684	41	197384	97.570	ug/l	94
15) Acrylonitrile	3.081	53	330844	510.880	ug/l	100
16) Acetone	2.398	43	295803	483.635	ug/l	99
17) Carbon Disulfide	2.532	76	211673	96.592	ug/l	98
18) Methyl Acetate	2.721	43	200390	108.991	ug/l	99
19) Methyl tert-butyl Ether	3.129	73	369725	102.579	ug/l	99
20) Methylene Chloride	2.806	84	112036	90.472	ug/l	94
21) trans-1,2-Dichloroethene	3.111	96	98333	90.207	ug/l	97
22) Diisopropyl ether	3.782	45	402386	100.889	ug/l #	81
23) Vinyl Acetate	3.739	43	1588475	515.860	ug/l	100
24) 1,1-Dichloroethane	3.629	63	214175	96.351	ug/l	98
25) 2-Butanone	4.574	43	443718	516.388	ug/l	100
26) 2,2-Dichloropropane	4.501	77	168003	101.809	ug/l	99
27) cis-1,2-Dichloroethene	4.507	96	126373	94.172	ug/l	99
28) Bromochloromethane	4.916	49	103145	97.287	ug/l	100
29) Tetrahydrofuran	5.019	42	277926	512.155	ug/l	98
30) Chloroform	5.117	83	223890	96.128	ug/l	96
31) Cyclohexane	5.489	56	168997	94.175	ug/l	96
32) 1,1,1-Trichloroethane	5.397	97	195664	98.210	ug/l	98
36) 1,1-Dichloropropene	5.708	75	139920	87.846	ug/l	99
37) Ethyl Acetate	4.733	43	171559	110.381	ug/l	98
38) Carbon Tetrachloride	5.696	117	168024	94.183	ug/l	100
39) Methylcyclohexane	7.391	83	171321	91.127	ug/l	98
40) Benzene	6.056	78	418566	93.347	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046521.D
 Acq On : 06 Jun 2025 11:02
 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 06/06/2025
 Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:41:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.940	41	96904	100.381	ug/l	96
42) 1,2-Dichloroethane	6.098	62	177798	95.311	ug/l	99
43) Isopropyl Acetate	6.354	43	283615	104.651	ug/l	100
44) Trichloroethene	7.135	130	100714	88.399	ug/l	97
45) 1,2-Dichloropropane	7.440	63	112349	97.071	ug/l	97
46) Dibromomethane	7.586	93	82614	94.883	ug/l	98
47) Bromodichloromethane	7.830	83	178755	99.847	ug/l	99
48) Methyl methacrylate	7.702	41	148448	106.461	ug/l	97
49) 1,4-Dioxane	7.671	88	39522	2119.509	ug/l	99
51) 4-Methyl-2-Pentanone	8.580	43	882926	512.682	ug/l	100
52) Toluene	8.720	92	257539	93.489	ug/l	99
53) t-1,3-Dichloropropene	8.982	75	169431	105.552	ug/l	100
54) cis-1,3-Dichloropropene	8.372	75	180299	101.023	ug/l	93
55) 1,1,2-Trichloroethane	9.153	97	107827	97.502	ug/l	99
56) Ethyl methacrylate	9.122	69	180282	105.935	ug/l	97
57) 1,3-Dichloropropane	9.311	76	185642	94.990	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.250	63	472343	509.557	ug/l	100
59) 2-Hexanone	9.433	43	635829	514.792	ug/l	99
60) Dibromochloromethane	9.525	129	128006	98.404	ug/l	100
61) 1,2-Dibromoethane	9.610	107	110603	95.976	ug/l	98
64) Tetrachloroethene	9.275	164	79545	90.169	ug/l	97
65) Chlorobenzene	10.079	112	289084	93.171	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.165	131	106634	101.705	ug/l	99
67) Ethyl Benzene	10.195	91	520064	96.013	ug/l	99
68) m/p-Xylenes	10.305	106	376918	191.829	ug/l	100
69) o-Xylene	10.640	106	185444	97.576	ug/l	100
70) Styrene	10.659	104	319998	98.362	ug/l	99
71) Bromoform	10.799	173	83574	104.541	ug/l #	97
73) Isopropylbenzene	10.963	105	501468	97.400	ug/l	100
74) N-amyl acetate	10.841	43	242879	107.123	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	163624	99.288	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	134330m	95.251	ug/l	
77) Bromobenzene	11.201	156	115005	96.236	ug/l	98
78) n-propylbenzene	11.305	91	596385	95.703	ug/l	99
79) 2-Chlorotoluene	11.366	91	356389	94.839	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	412251	96.089	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	52102	108.338	ug/l	94
82) 4-Chlorotoluene	11.457	91	416150	93.429	ug/l	98
83) tert-Butylbenzene	11.713	119	425478	97.420	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	418383	96.397	ug/l	100
85) sec-Butylbenzene	11.890	105	536486	95.599	ug/l	100
86) p-Isopropyltoluene	12.006	119	445024	95.124	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	215104	92.695	ug/l	100
88) 1,4-Dichlorobenzene	12.042	146	213122	88.632	ug/l	99
89) n-Butylbenzene	12.329	91	433603	94.378	ug/l	99
90) Hexachloroethane	12.536	117	82886	99.681	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	208931	93.273	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	40499	109.744	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	143150	93.683	ug/l	99
94) Hexachlorobutadiene	13.725	225	65134	91.723	ug/l	99
95) Naphthalene	13.774	128	499805	103.144	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	145123	94.716	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046521.D
Acq On : 06 Jun 2025 11:02
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 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:41:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:38:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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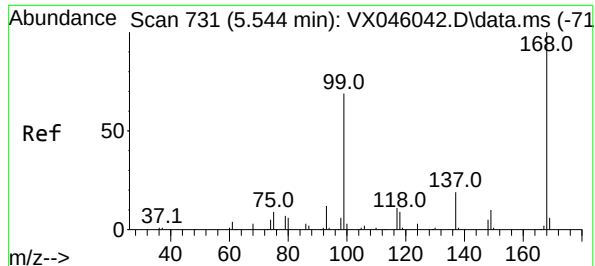
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025





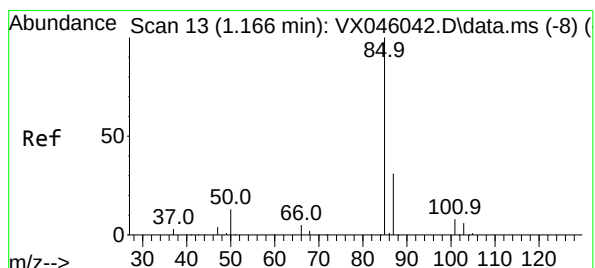
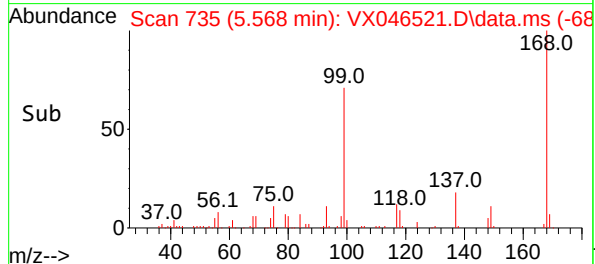
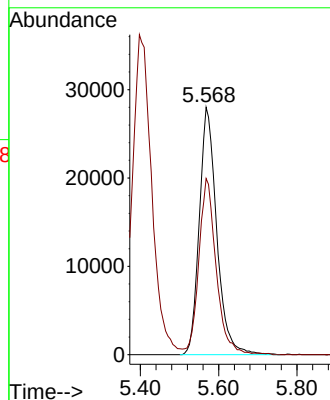
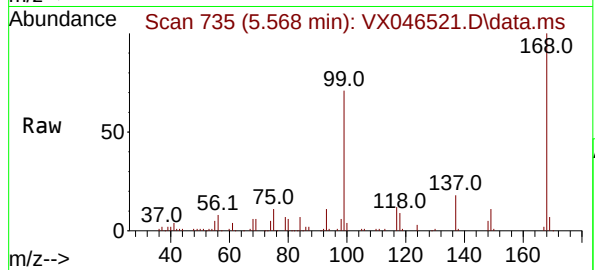
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 8676
Ion Ratio Lower Upper
168 100
99 71.2 54.9 82.3

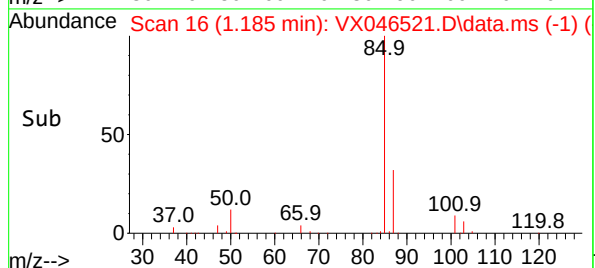
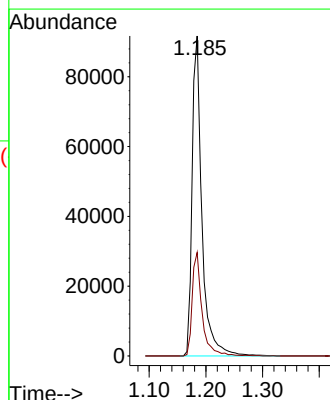
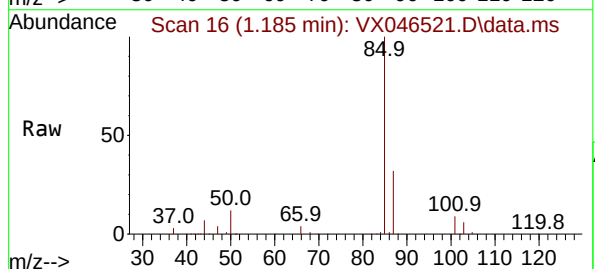
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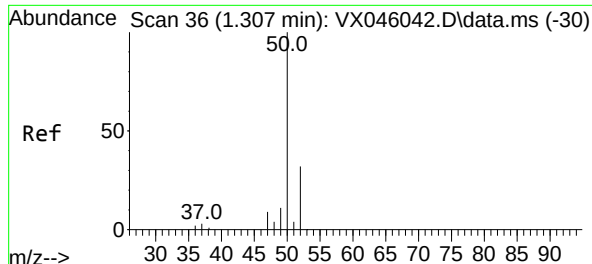
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 91.417 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 85 Resp: 110112
Ion Ratio Lower Upper
85 100
87 32.4 15.7 47.1





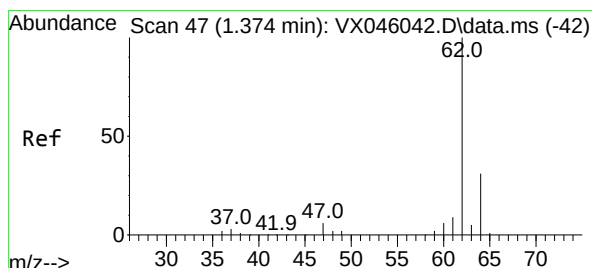
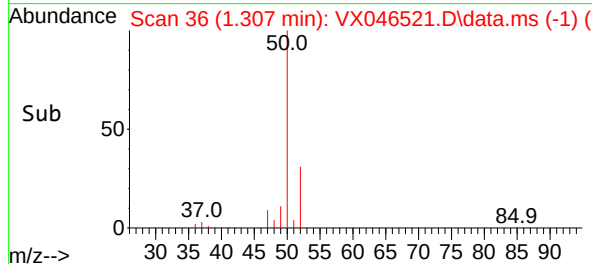
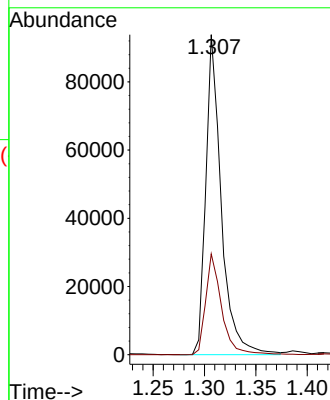
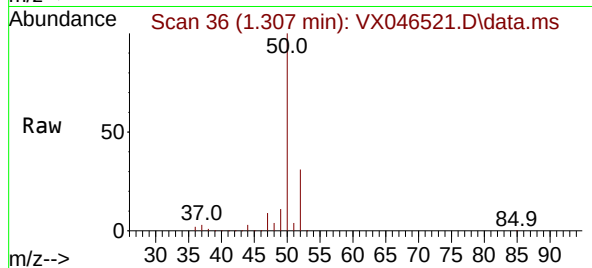
#3
Chloromethane
Concen: 89.947 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 9861
Ion Ratio Lower Upper
50 100
52 31.5 25.4 38.2

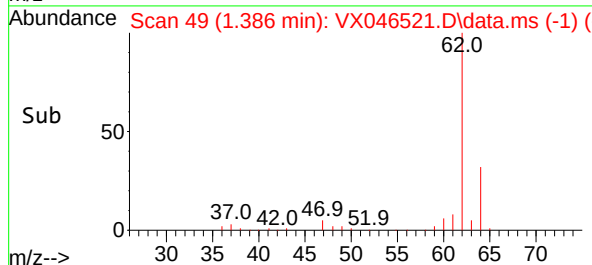
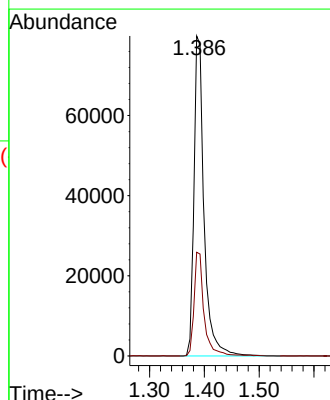
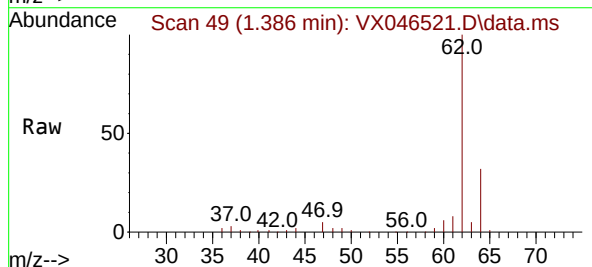
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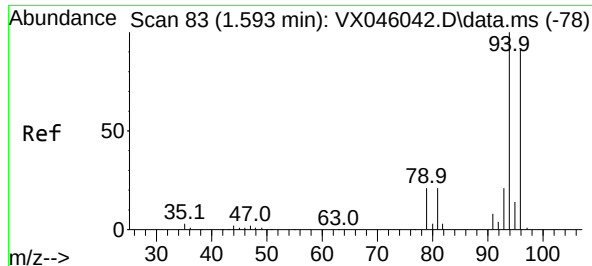
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 93.885 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 62 Resp: 102609
Ion Ratio Lower Upper
62 100
64 32.4 25.2 37.8





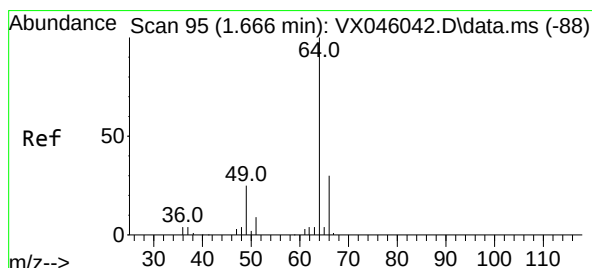
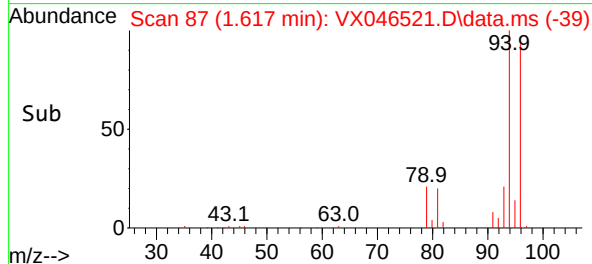
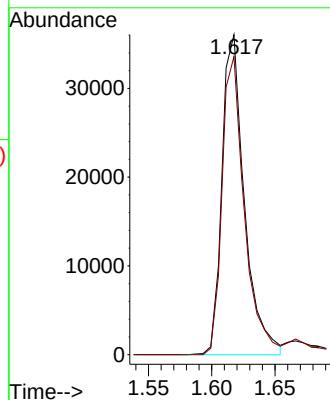
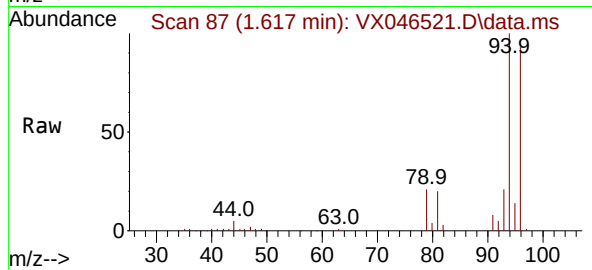
#5
Bromomethane
Concen: 66.888 ug/l
RT: 1.617 min Scan# 81
Delta R.T. -0.007 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 44380
Ion Ratio Lower Upper
94 100
96 93.2 72.8 109.2

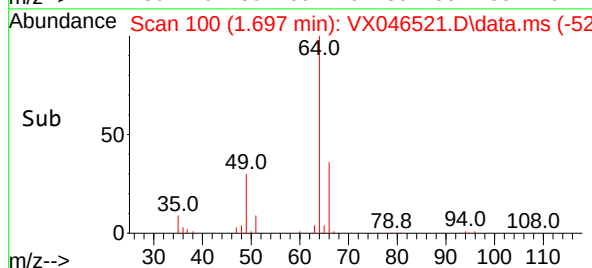
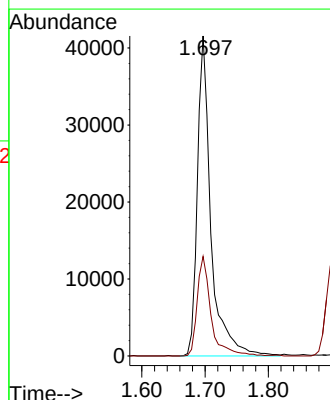
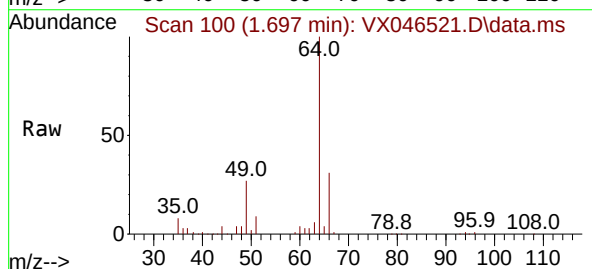
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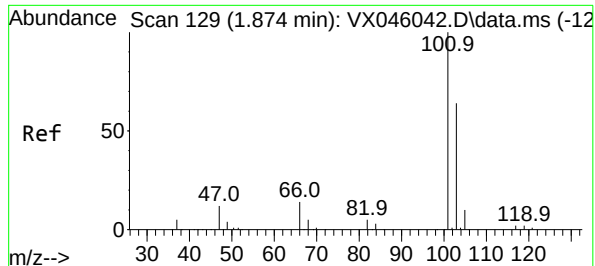
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#6
Chloroethane
Concen: 87.305 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 64 Resp: 61909
Ion Ratio Lower Upper
64 100
66 31.1 24.3 36.5





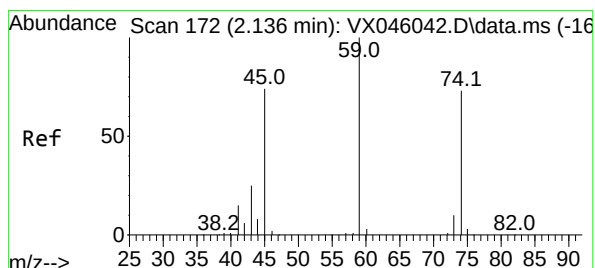
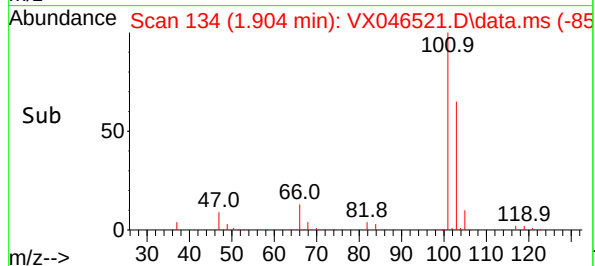
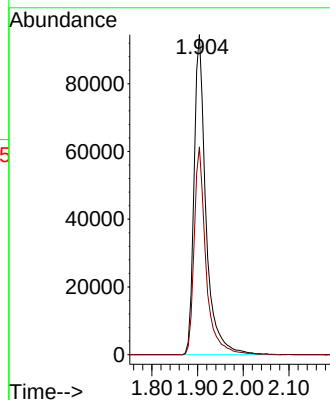
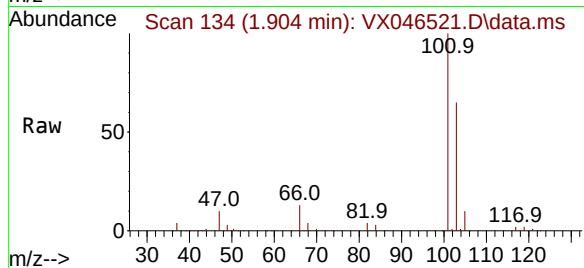
#7
Trichlorofluoromethane
Concen: 94.783 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 17139
Ion Ratio Lower Upper
101 100
103 64.9 51.0 76.4

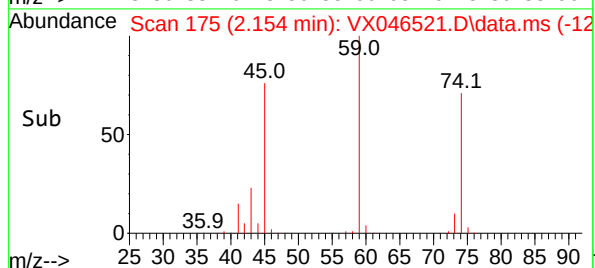
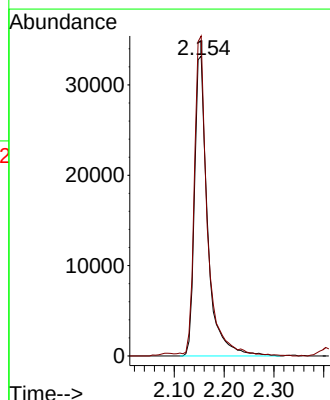
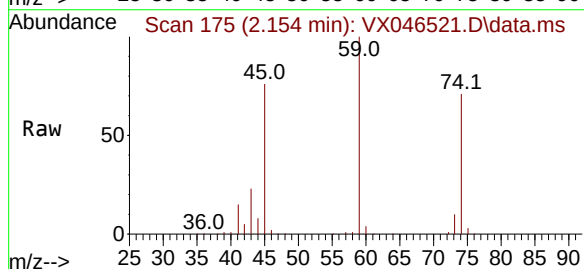
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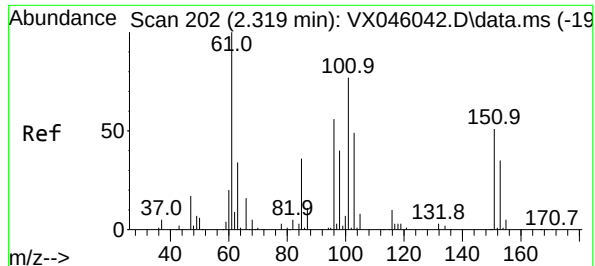
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#8
Diethyl Ether
Concen: 94.817 ug/l
RT: 2.154 min Scan# 175
Delta R.T. -0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 74 Resp: 60580
Ion Ratio Lower Upper
74 100
45 106.9 54.9 164.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 93.832 ug/l

RT: 2.349 min Scan# 202

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:101 Resp: 10690

Ion Ratio Lower Upper

101 100

85 46.4 38.6 58.0

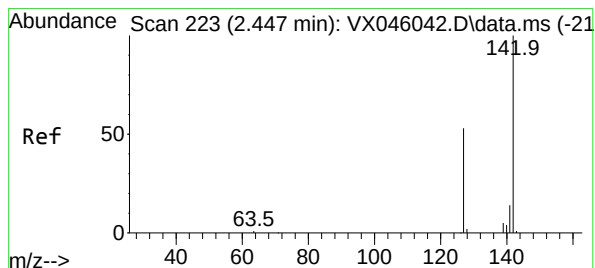
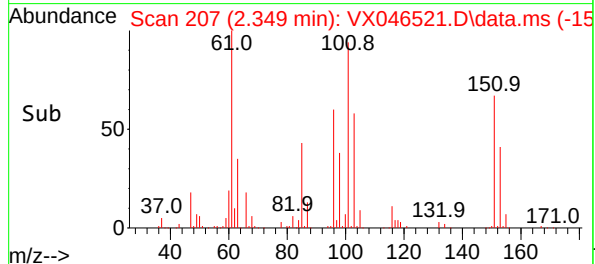
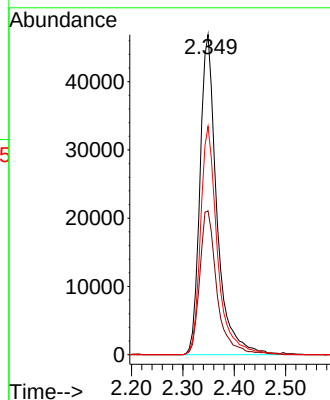
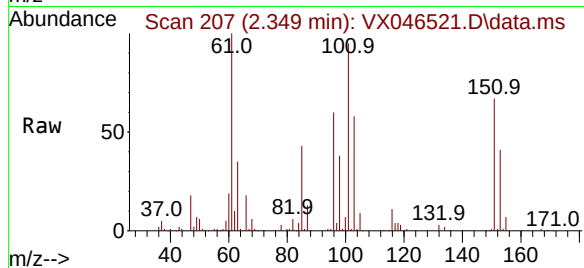
151 71.9 55.2 82.8

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#10

Methyl Iodide

Concen: 104.501 ug/l

RT: 2.471 min Scan# 227

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

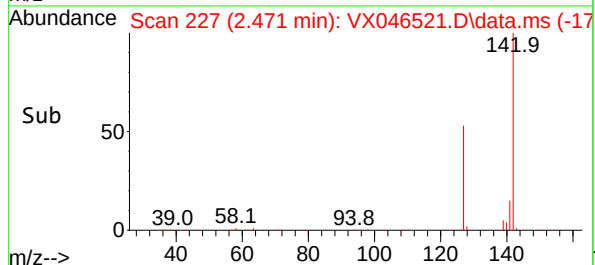
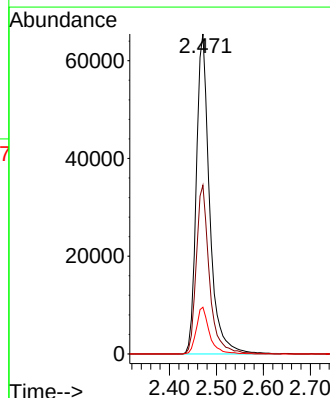
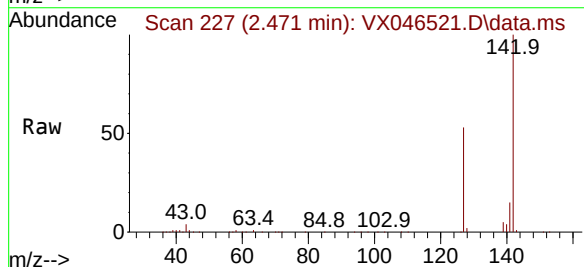
Tgt Ion:142 Resp: 129059

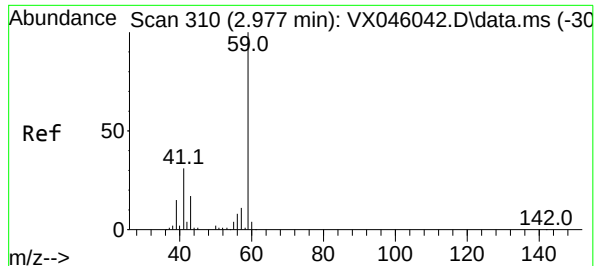
Ion Ratio Lower Upper

142 100

127 52.1 41.7 62.5

141 14.5 11.5 17.3





#11

Tert butyl alcohol

Concen: 527.609 ug/l

RT: 2.977 min Scan# 310

Delta R.T. 0.006 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 59 Resp: 90368

Ion Ratio Lower Upper

59 100

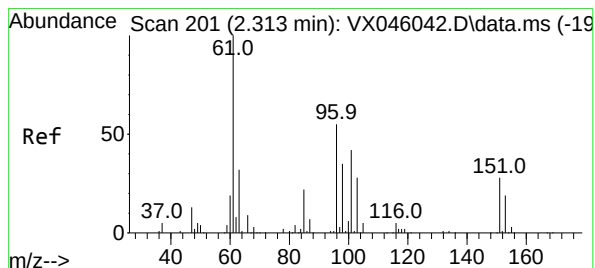
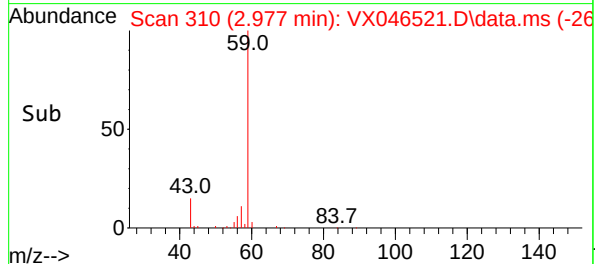
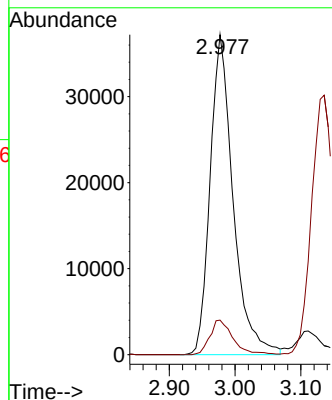
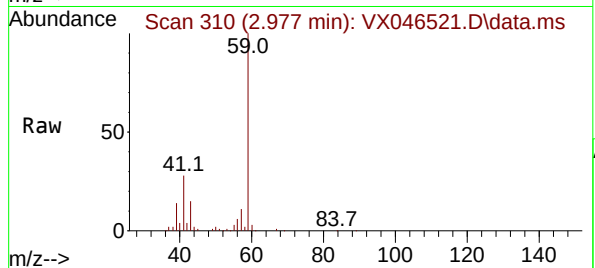
57 10.9 8.6 12.8

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Supervised By :Mahesh Dadoda 06/09/2025



#12

1,1-Dichloroethene

Concen: 94.457 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

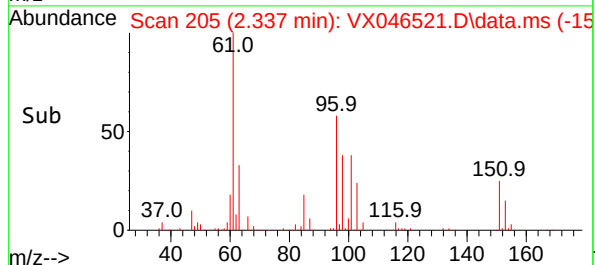
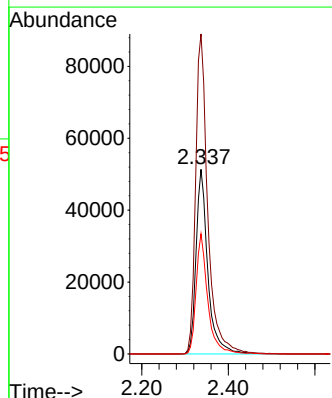
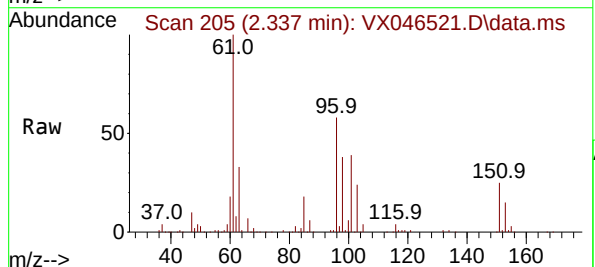
Tgt Ion: 96 Resp: 97296

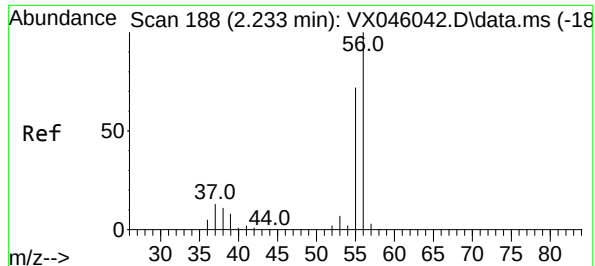
Ion Ratio Lower Upper

96 100

61 173.3 146.2 219.2

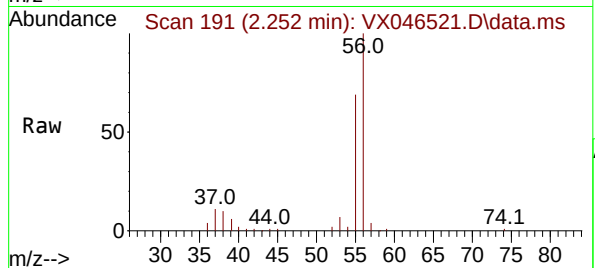
98 65.0 51.0 76.6





#13
Acrolein
Concen: 460.232 ug/l
RT: 2.252 min Scan# 191
Delta R.T. 0.001 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

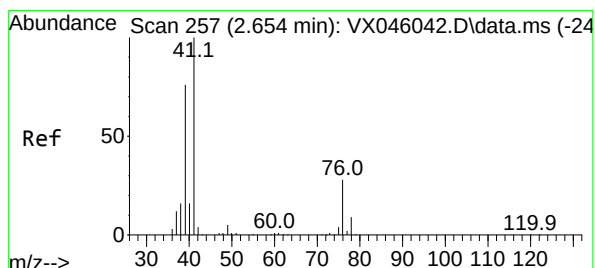
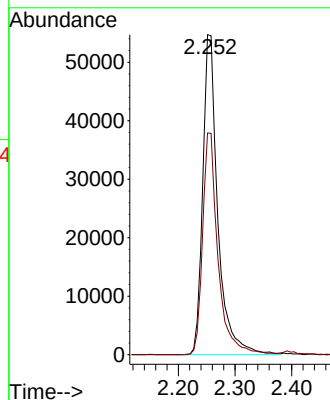
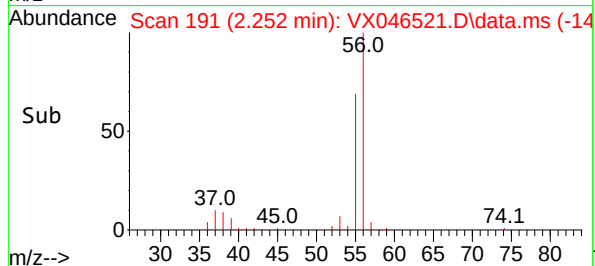
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 56 Resp: 101278
Ion Ratio Lower Upper
56 100
55 70.5 56.2 84.4

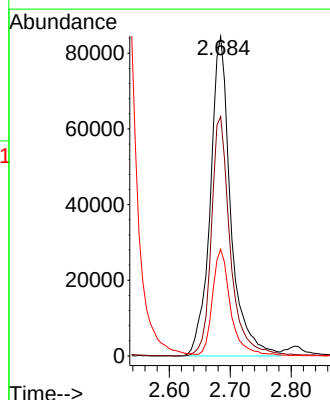
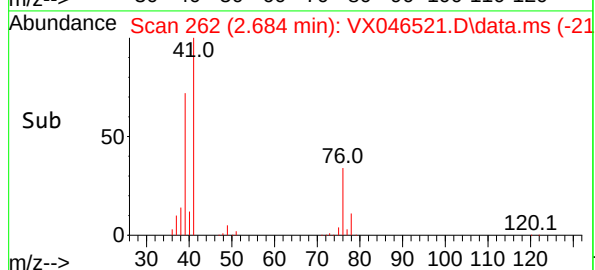
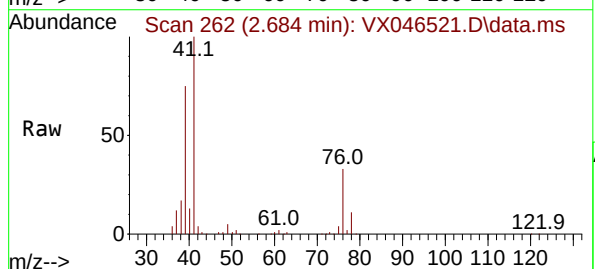
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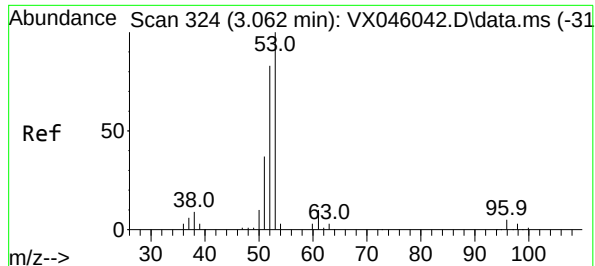
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#14
Allyl chloride
Concen: 97.570 ug/l
RT: 2.684 min Scan# 262
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 41 Resp: 197384
Ion Ratio Lower Upper
41 100
39 69.6 60.6 90.8
76 30.0 24.9 37.3





#15

Acrylonitrile

Concen: 510.880 ug/l

RT: 3.081 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

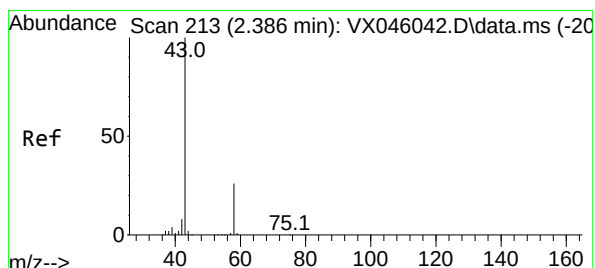
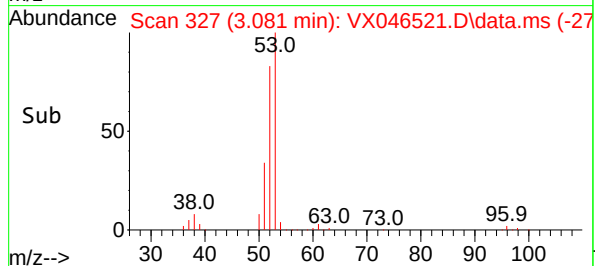
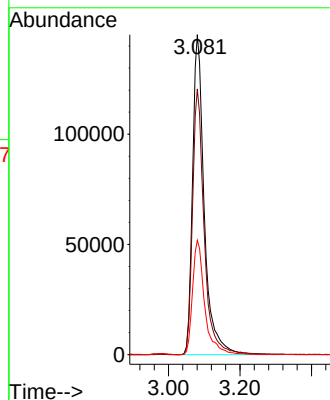
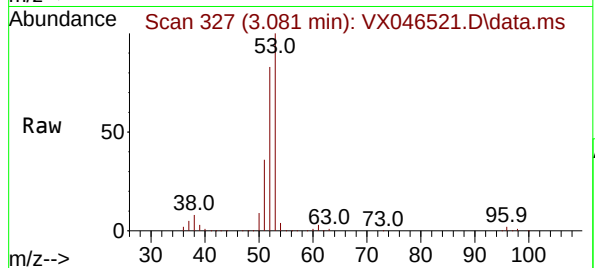
VSTDICC100

Tgt Ion:	53	Resp:	33084
Ion	Ratio	Lower	Upper
53	100		
52	82.2	65.3	97.9
51	37.2	29.8	44.8

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#16

Acetone

Concen: 483.635 ug/l

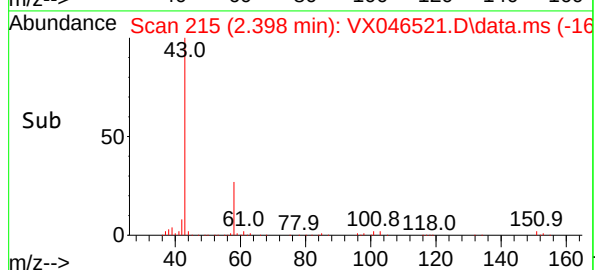
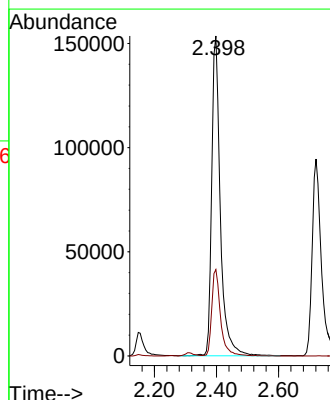
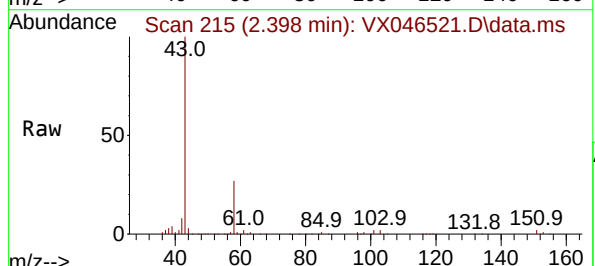
RT: 2.398 min Scan# 215

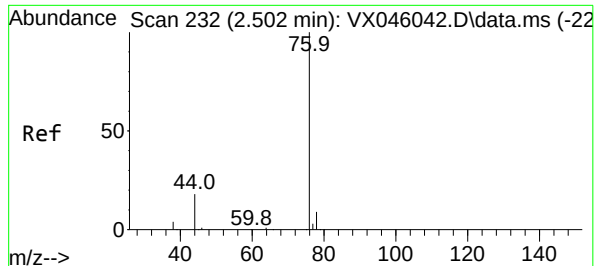
Delta R.T. 0.006 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Tgt Ion:	43	Resp:	295803
Ion	Ratio	Lower	Upper
43	100		
58	27.0	21.2	31.8





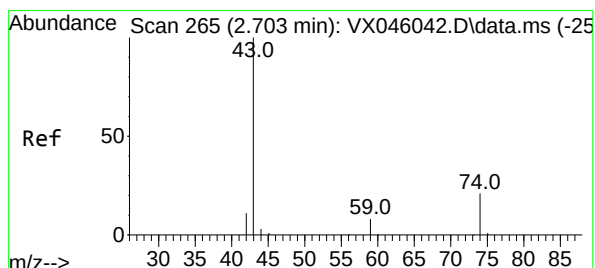
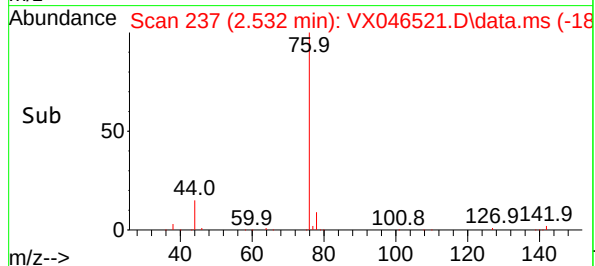
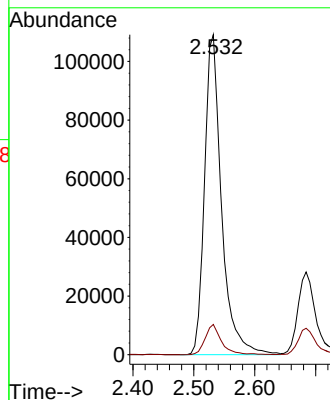
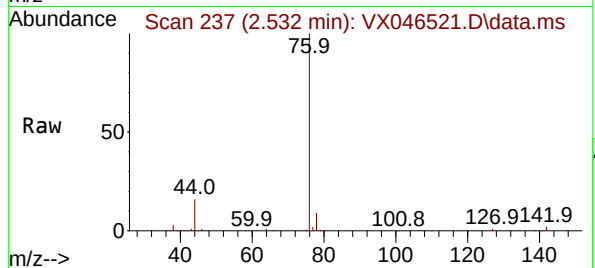
#17
Carbon Disulfide
Concen: 96.592 ug/l
RT: 2.532 min Scan# 21167
Delta R.T. -0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 21167
Ion Ratio Lower Upper
76 100
78 9.4 7.0 10.4

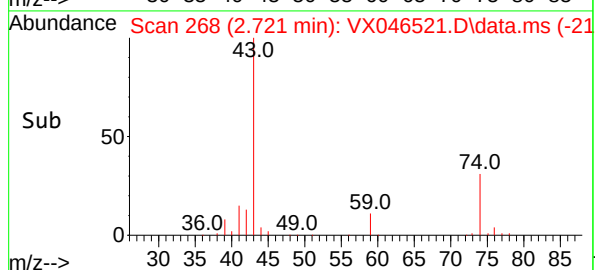
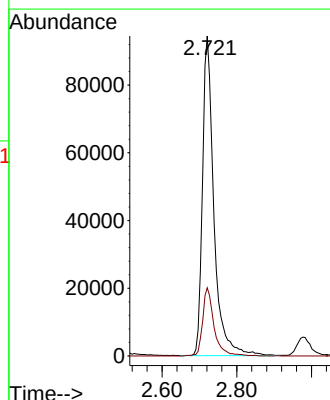
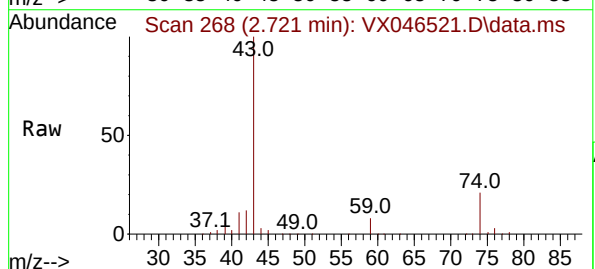
Manual Integrations
APPROVED

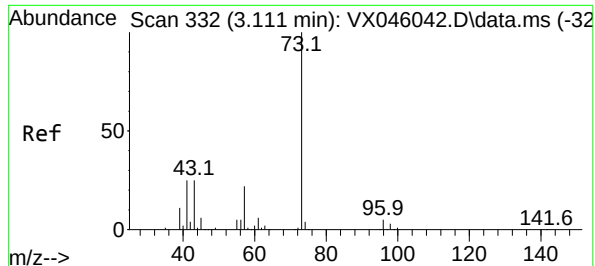
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#18
Methyl Acetate
Concen: 108.991 ug/l
RT: 2.721 min Scan# 268
Delta R.T. -0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 43 Resp: 200390
Ion Ratio Lower Upper
43 100
74 21.2 16.7 25.1





#19

Methyl tert-butyl Ether

Concen: 102.579 ug/l

RT: 3.129 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 73 Resp: 36972

Ion Ratio Lower Upper

73 100

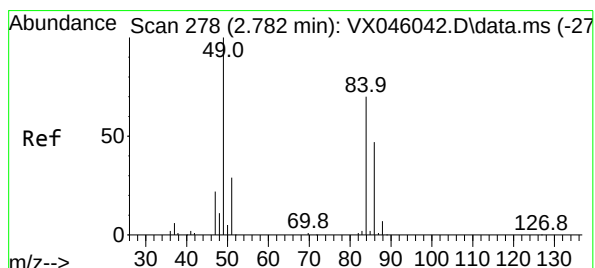
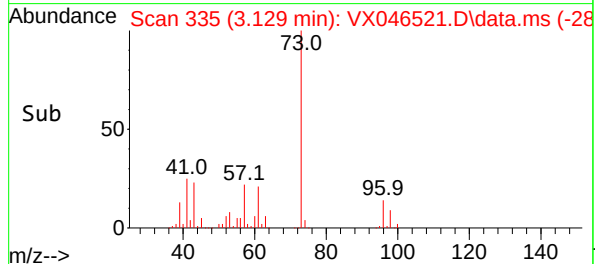
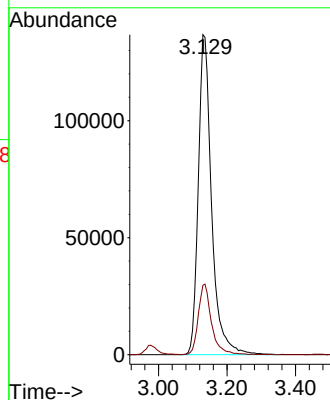
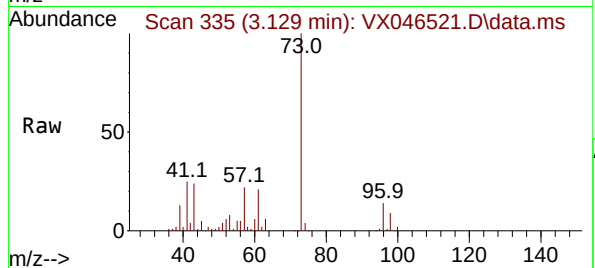
57 21.7 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#20

Methylene Chloride

Concen: 90.472 ug/l

RT: 2.806 min Scan# 282

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Tgt Ion: 84 Resp: 112036

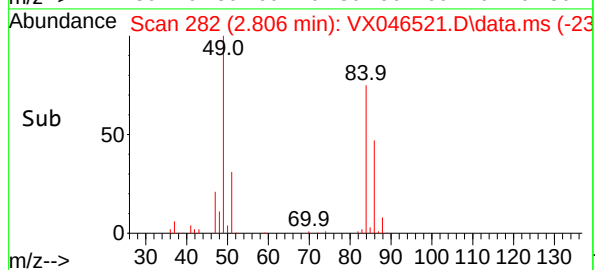
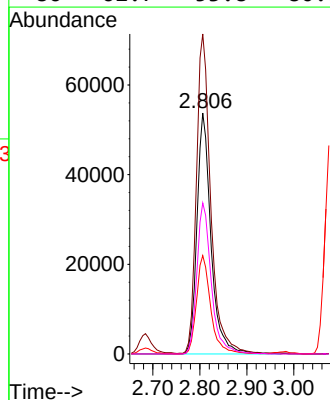
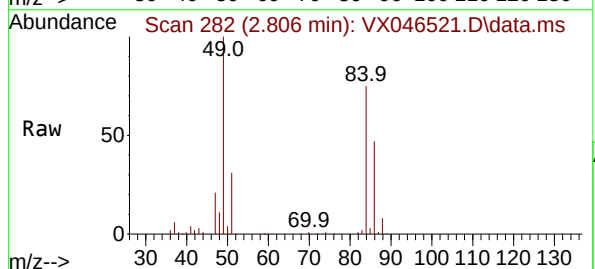
Ion Ratio Lower Upper

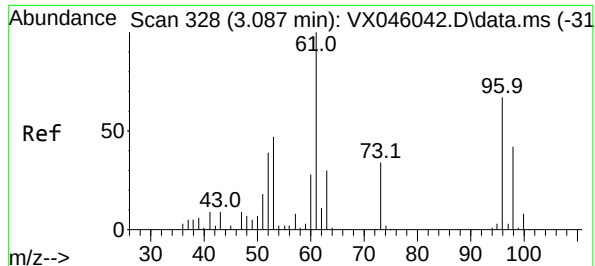
84 100

49 132.4 113.9 170.9

51 40.8 33.5 50.3

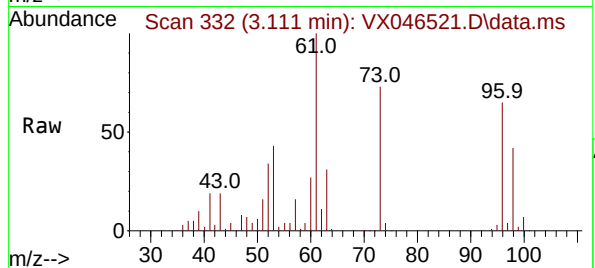
86 62.7 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 90.207 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

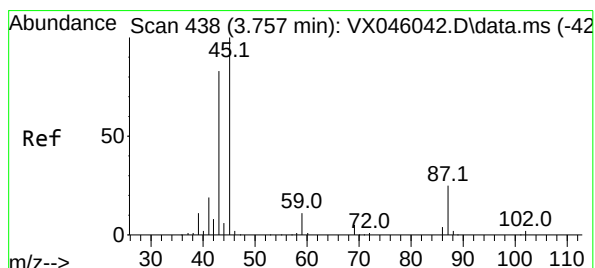
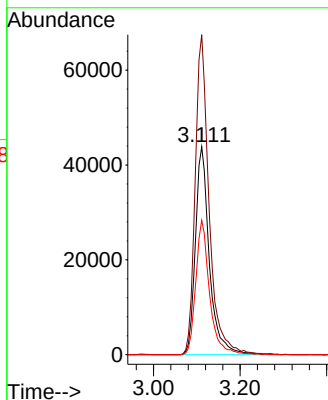
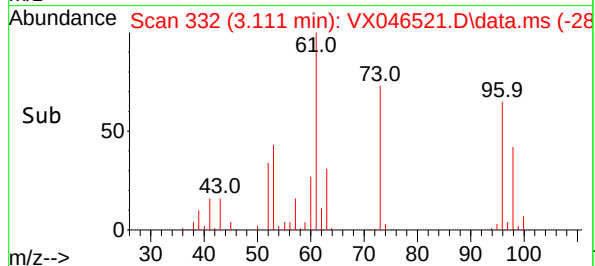
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



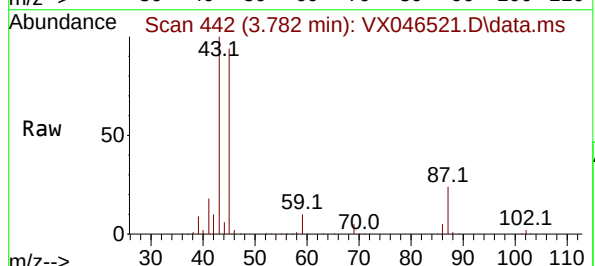
Tgt Ion: 96 Resp: 9833
Ion Ratio Lower Upper
96 100
61 153.8 119.5 179.3
98 64.6 50.0 75.0

Manual Integrations
APPROVED

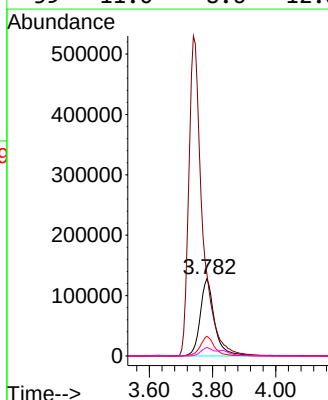
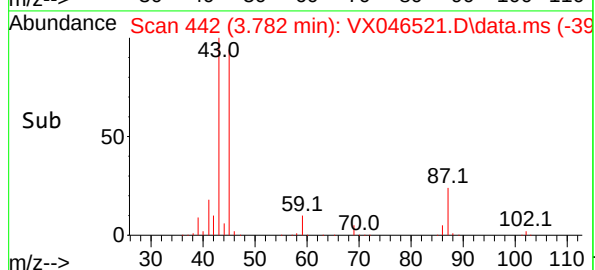
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

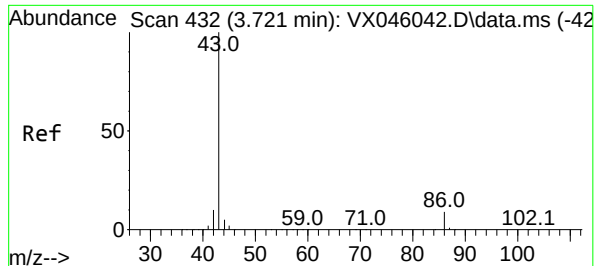


#22
Diisopropyl ether
Concen: 100.889 ug/l
RT: 3.782 min Scan# 442
Delta R.T. -0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02



Tgt Ion: 45 Resp: 402386
Ion Ratio Lower Upper
45 100
43 106.7 66.6 100.0#
87 25.5 19.8 29.6
59 11.0 8.6 12.8





#23

Vinyl Acetate

Concen: 515.860 ug/l

RT: 3.739 min Scan# 417

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 158847

Ion Ratio Lower Upper

43 100

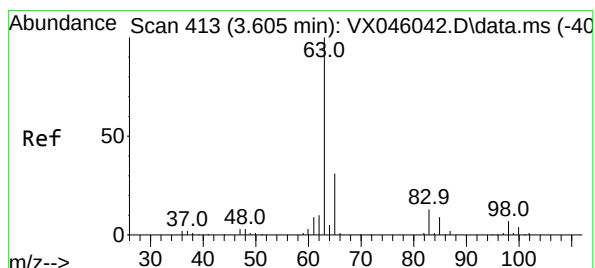
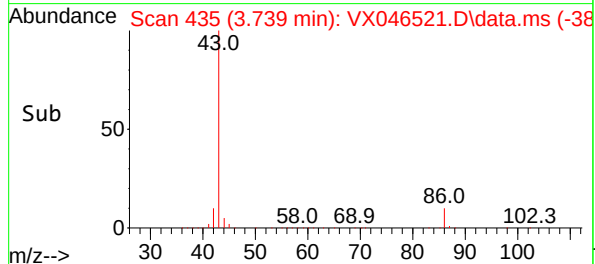
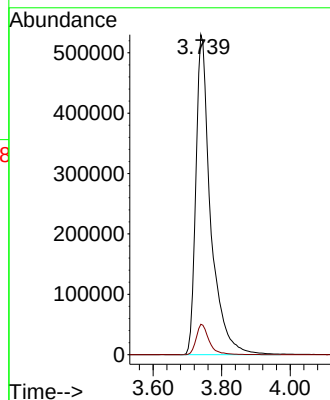
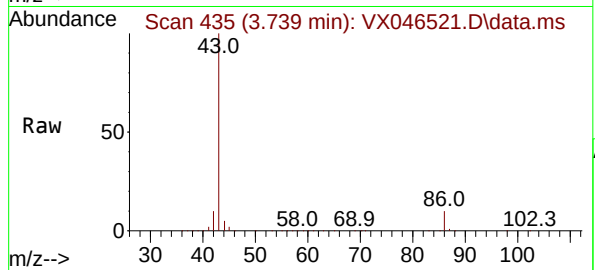
86 9.5 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#24

1,1-Dichloroethane

Concen: 96.351 ug/l

RT: 3.629 min Scan# 417

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

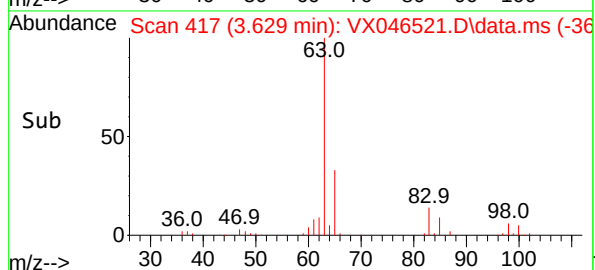
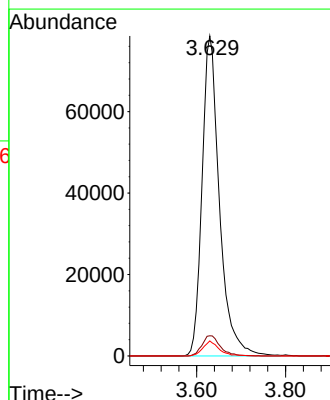
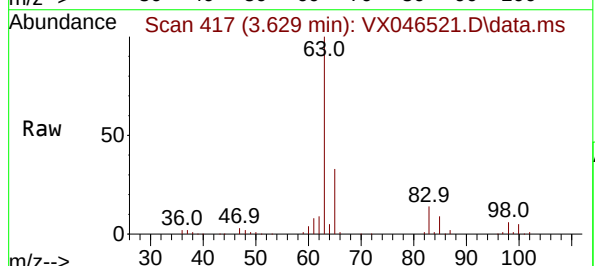
Tgt Ion: 63 Resp: 214175

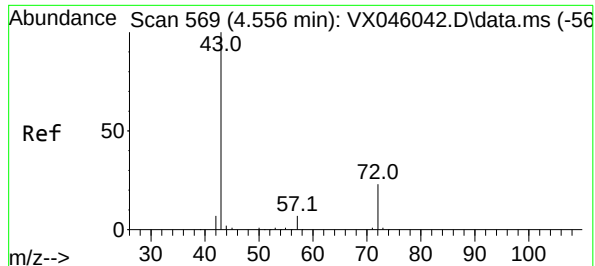
Ion Ratio Lower Upper

63 100

98 6.3 3.6 10.8

100 4.7 2.1 6.3





#25

2-Butanone

Concen: 516.388 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 443718

Ion Ratio Lower Upper

43 100

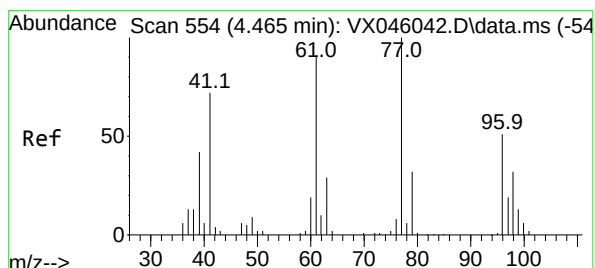
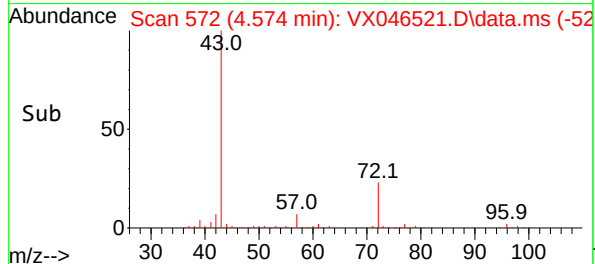
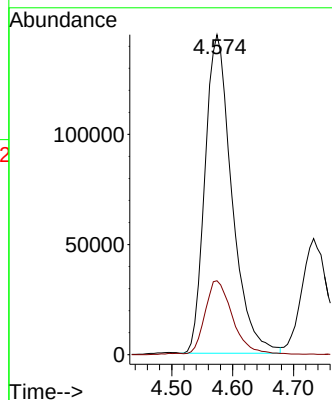
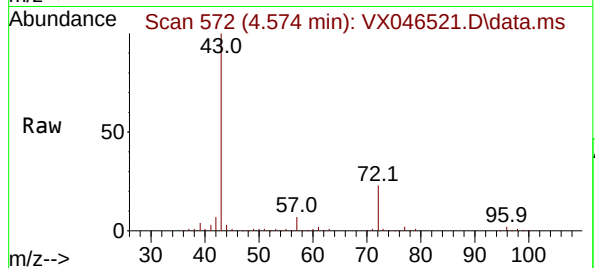
72 22.8 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 101.809 ug/l

RT: 4.501 min Scan# 560

Delta R.T. 0.006 min

Lab File: VX046521.D

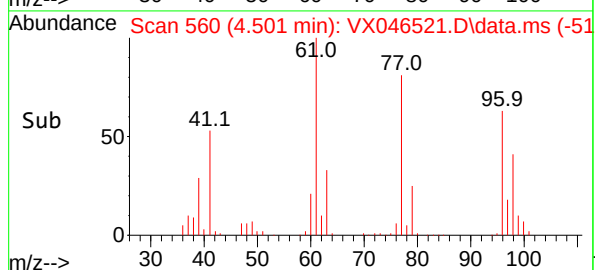
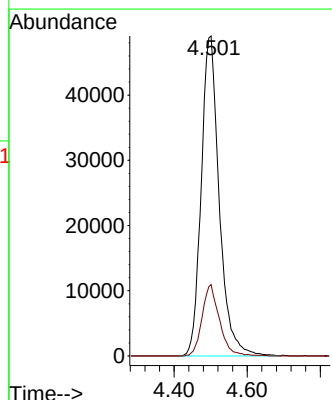
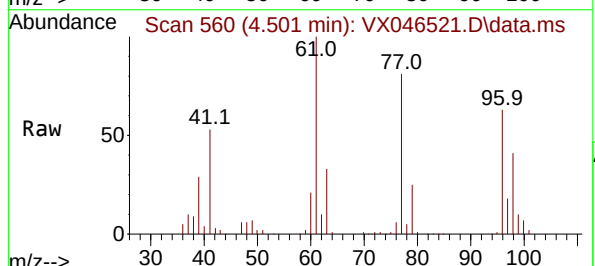
Acq: 06 Jun 2025 11:02

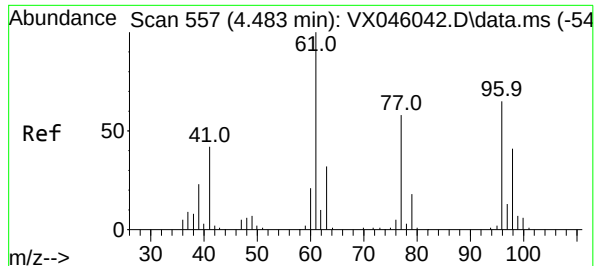
Tgt Ion: 77 Resp: 168003

Ion Ratio Lower Upper

77 100

97 21.5 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 94.172 ug/l

RT: 4.507 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 96 Resp: 12637

Ion Ratio Lower Upper

96 100

61 159.3 0.0 322.8

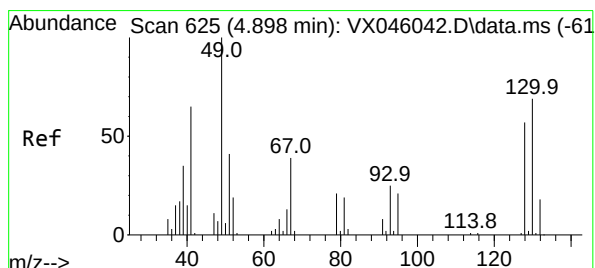
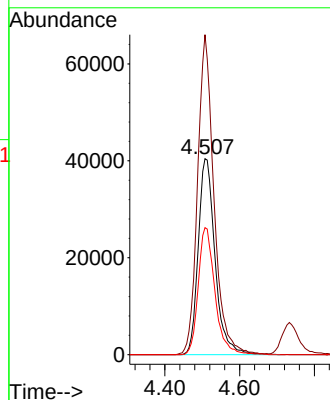
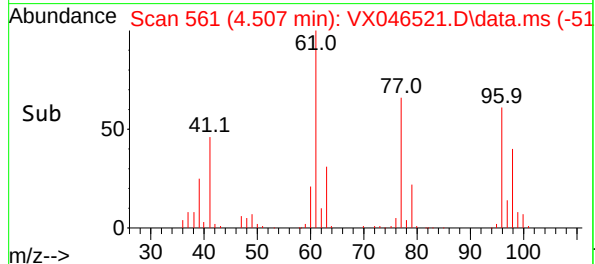
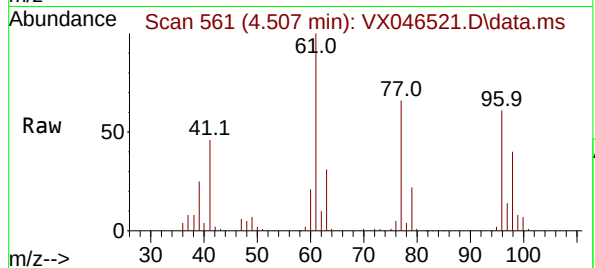
98 64.4 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 97.287 ug/l

RT: 4.916 min Scan# 628

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

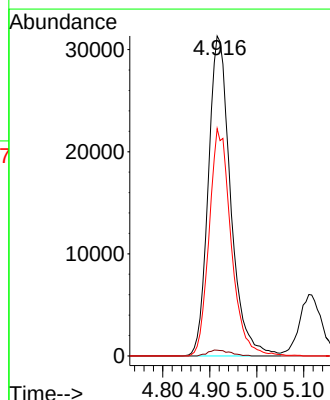
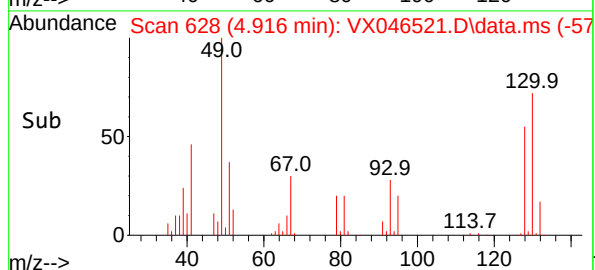
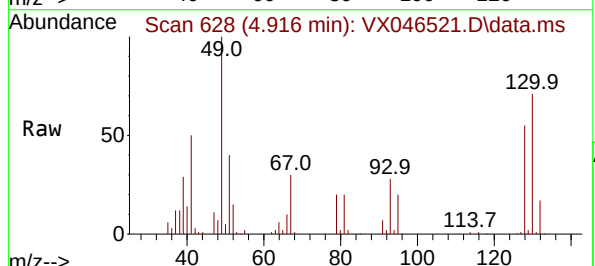
Tgt Ion: 49 Resp: 103145

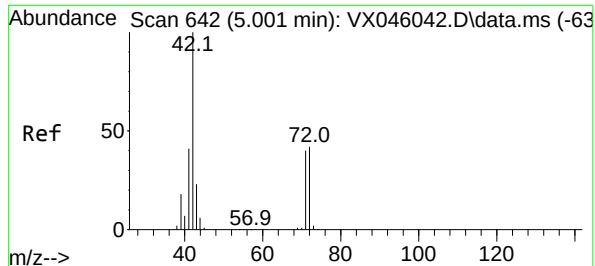
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.0

130 70.1 56.2 84.2





#29

Tetrahydrofuran

Concen: 512.155 ug/l

RT: 5.019 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 42 Resp: 277920

Ion Ratio Lower Upper

42 100

72 41.0 33.7 50.5

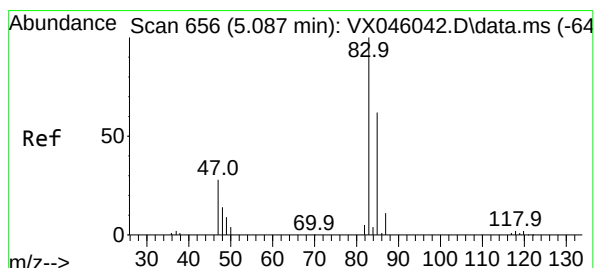
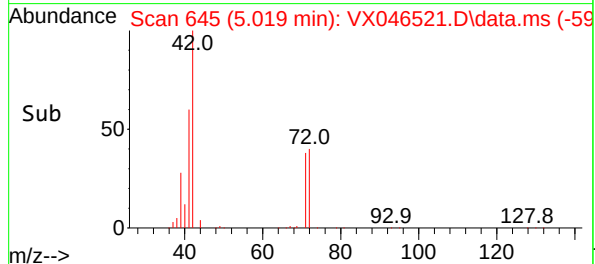
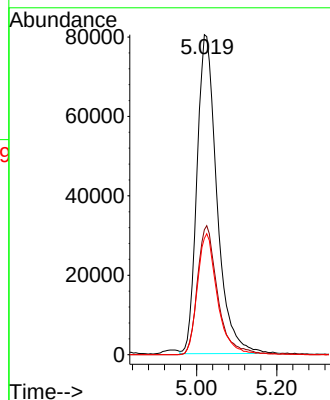
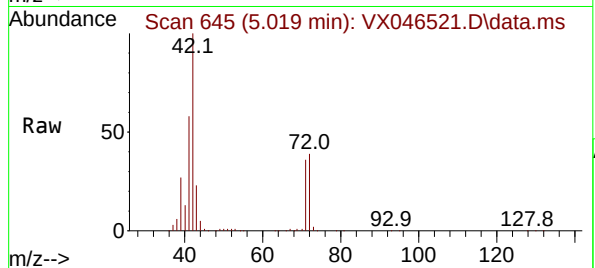
71 38.0 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 96.128 ug/l

RT: 5.117 min Scan# 661

Delta R.T. 0.006 min

Lab File: VX046521.D

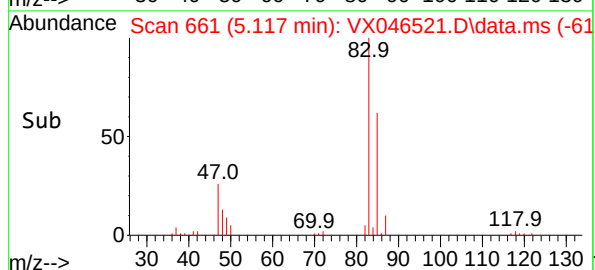
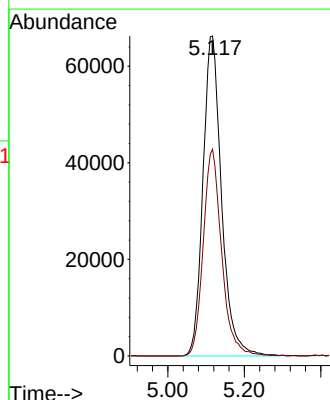
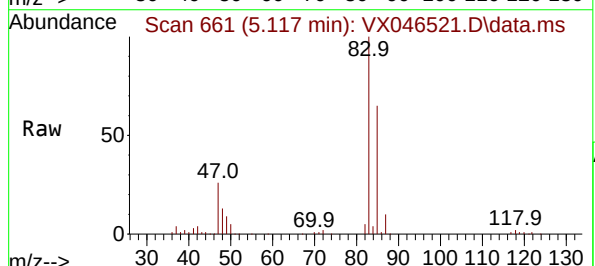
Acq: 06 Jun 2025 11:02

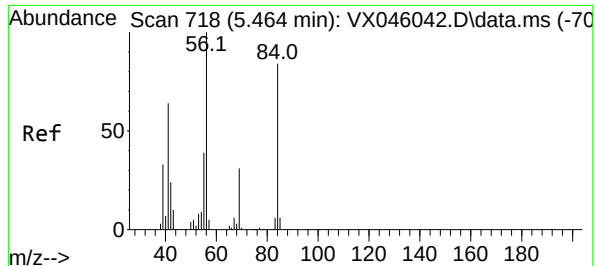
Tgt Ion: 83 Resp: 223890

Ion Ratio Lower Upper

83 100

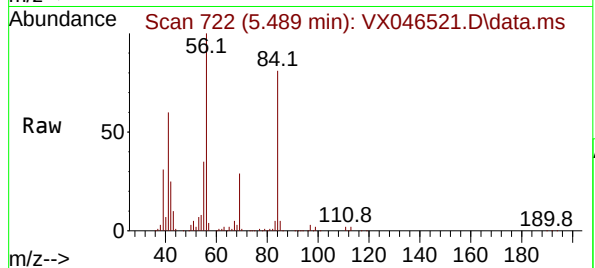
85 64.6 49.3 73.9





#31
Cyclohexane
Concen: 94.175 ug/l
RT: 5.489 min Scan# 718
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

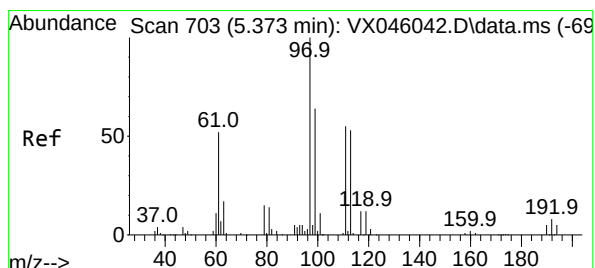
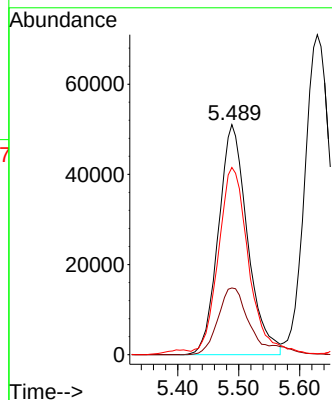
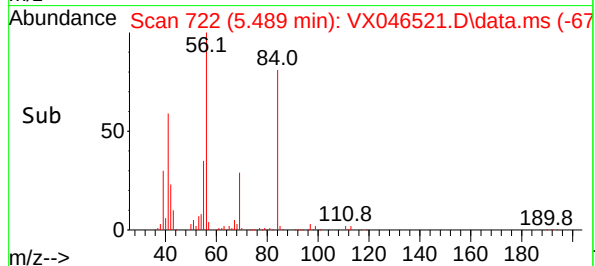
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 56 Resp: 16899
Ion Ratio Lower Upper
56 100
69 29.0 24.4 36.6
84 79.4 66.9 100.3

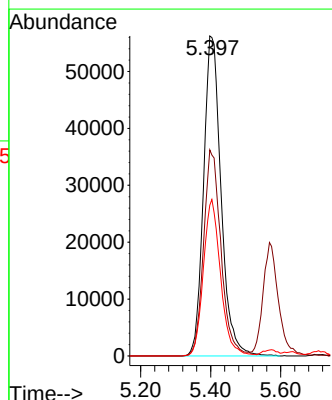
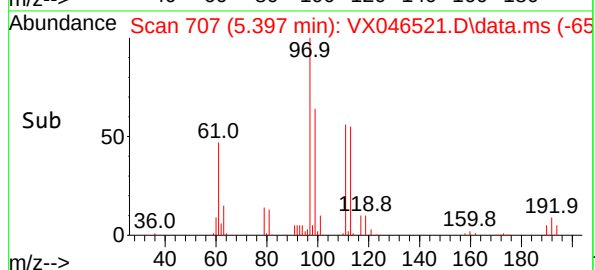
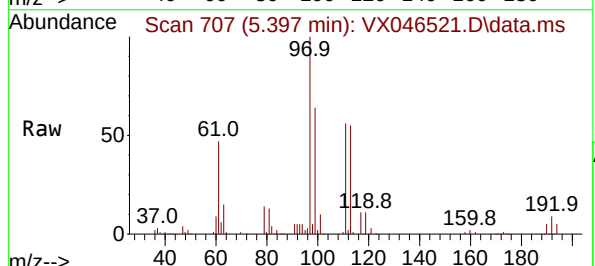
Manual Integrations
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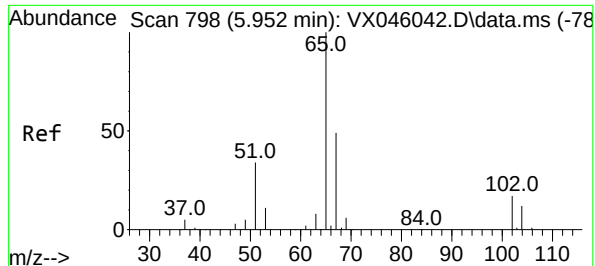
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#32
1,1,1-Trichloroethane
Concen: 98.210 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 97 Resp: 195664
Ion Ratio Lower Upper
97 100
99 63.7 51.8 77.6
61 48.1 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 93.131 ug/l

RT: 5.970 min Scan# 801

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 65 Resp: 143754

Ion Ratio Lower Upper

65 100

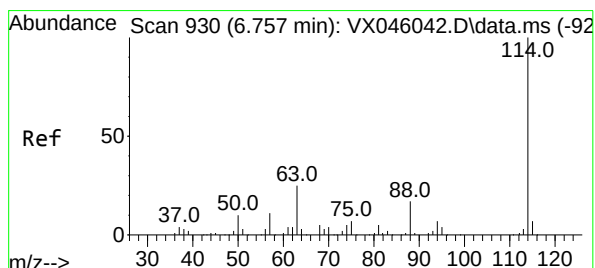
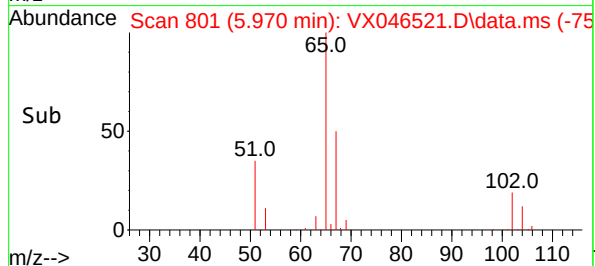
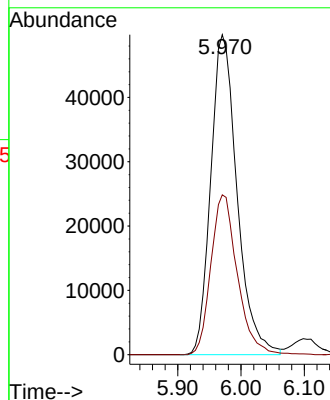
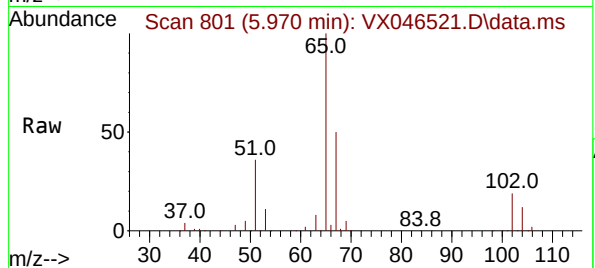
67 50.3 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.775 min Scan# 933

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

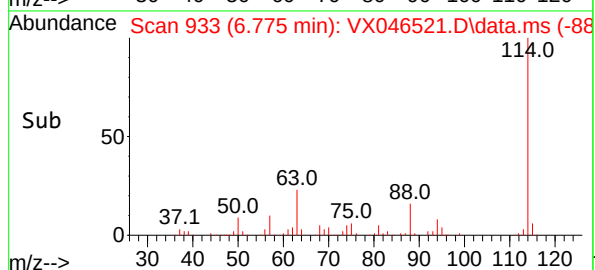
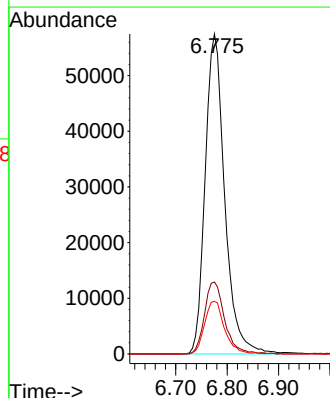
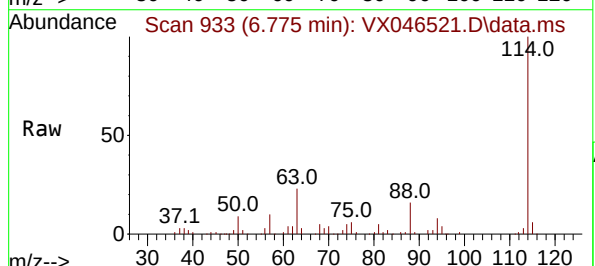
Tgt Ion:114 Resp: 151628

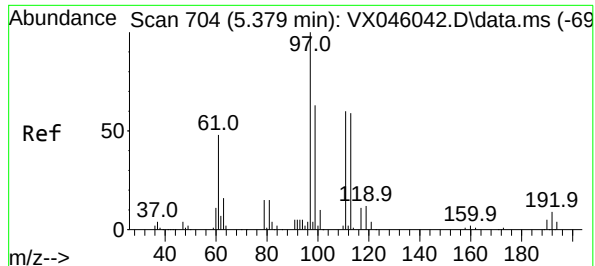
Ion Ratio Lower Upper

114 100

63 22.5 0.0 49.2

88 16.5 0.0 33.6





#35

Dibromofluoromethane

Concen: 94.377 ug/l

RT: 5.403 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:113 Resp: 10523

Ion Ratio Lower Upper

113 100

111 105.0 83.1 124.7

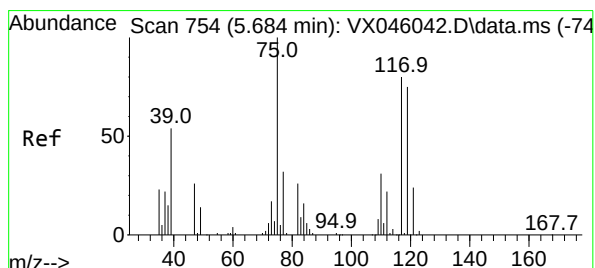
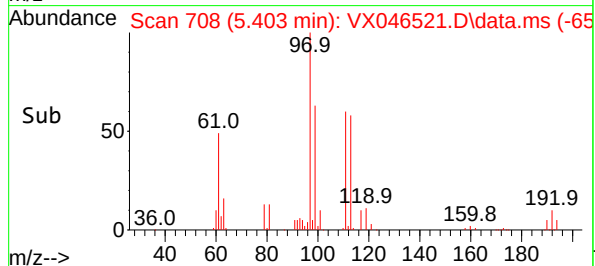
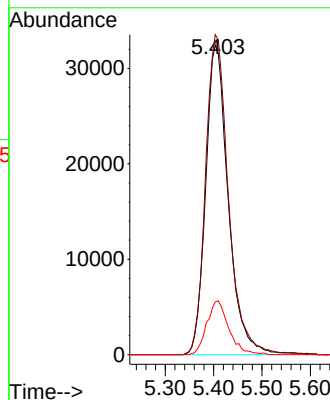
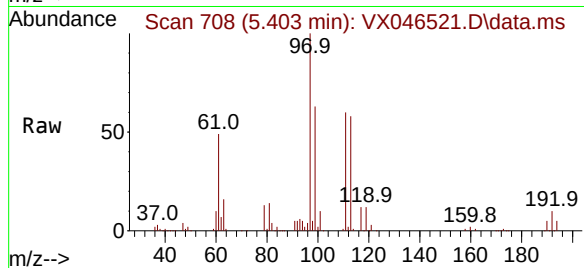
192 17.0 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#36

1,1-Dichloropropene

Concen: 87.846 ug/l

RT: 5.708 min Scan# 758

Delta R.T. -0.006 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

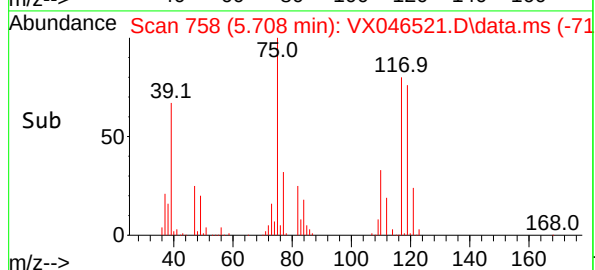
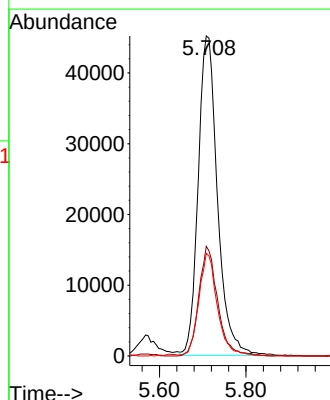
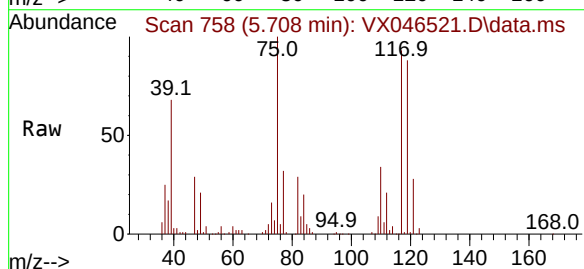
Tgt Ion: 75 Resp: 139920

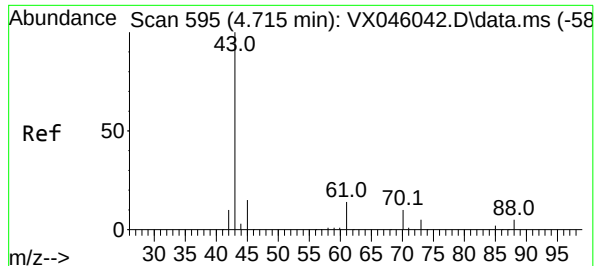
Ion Ratio Lower Upper

75 100

110 33.3 16.3 48.9

77 31.1 24.3 36.5





#37

Ethyl Acetate

Concen: 110.381 ug/l

RT: 4.733 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

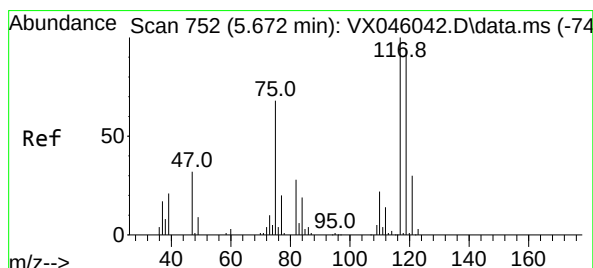
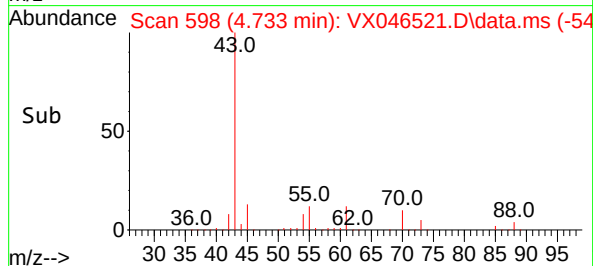
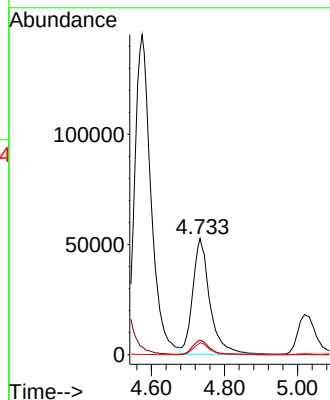
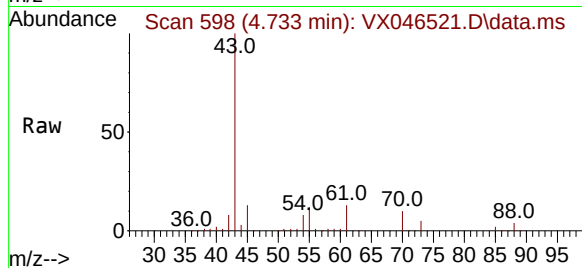
VSTDICC100

Tgt Ion:	43	Resp:	17155
Ion	Ratio	Lower	Upper
43	100		
61	11.7	10.3	15.5
70	9.5	7.9	11.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#38

Carbon Tetrachloride

Concen: 94.183 ug/l

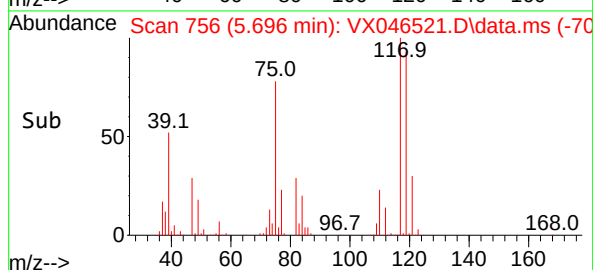
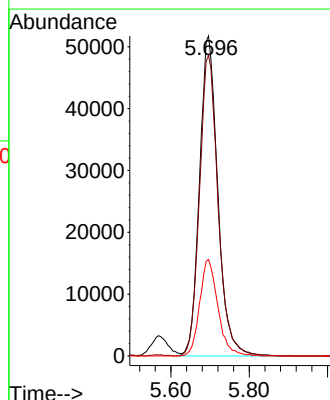
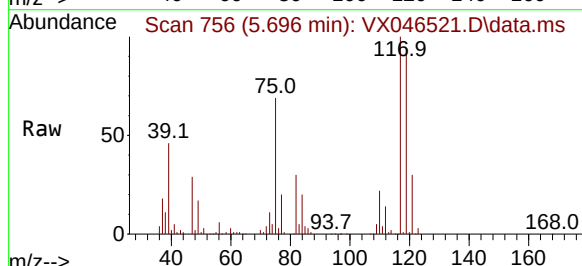
RT: 5.696 min Scan# 756

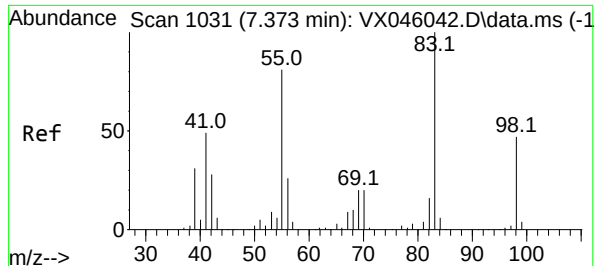
Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Tgt Ion:	117	Resp:	168024
Ion	Ratio	Lower	Upper
117	100		
119	93.9	75.2	112.8
121	30.1	24.2	36.4





#39

Methylcyclohexane

Concen: 91.127 ug/l

RT: 7.391 min Scan# 1034

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 17132

Ion Ratio Lower Upper

83 100

55 82.7 64.7 97.1

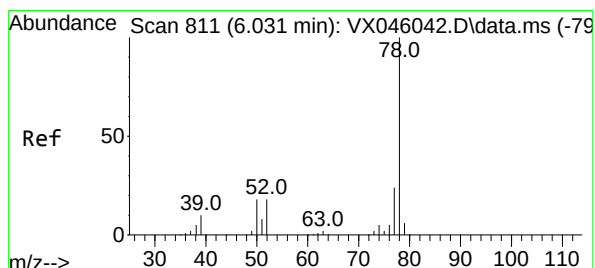
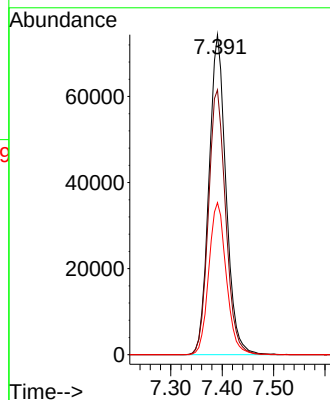
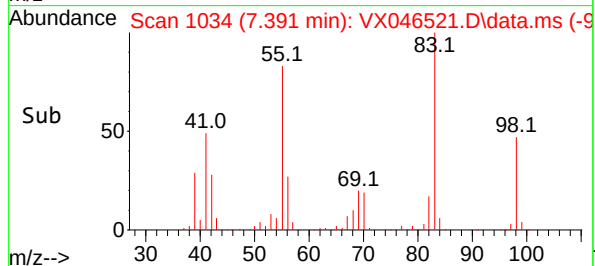
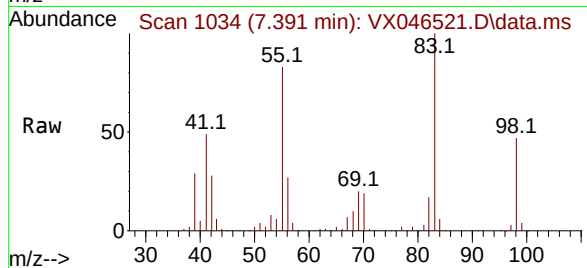
98 47.5 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#40

Benzene

Concen: 93.347 ug/l

RT: 6.056 min Scan# 815

Delta R.T. 0.000 min

Lab File: VX046521.D

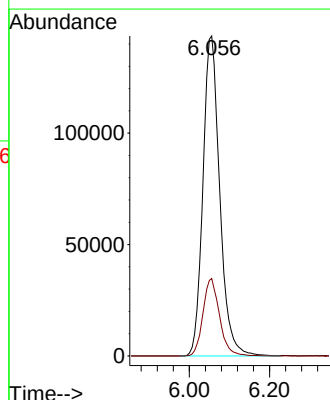
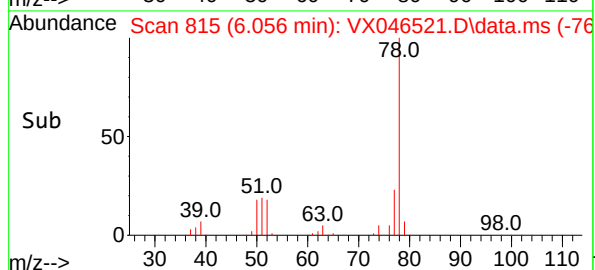
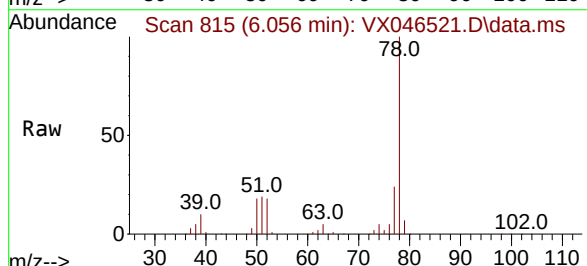
Acq: 06 Jun 2025 11:02

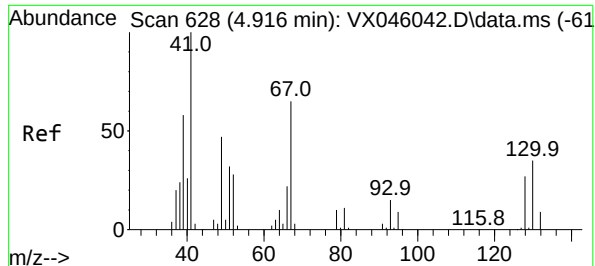
Tgt Ion: 78 Resp: 418566

Ion Ratio Lower Upper

78 100

77 24.2 19.0 28.4





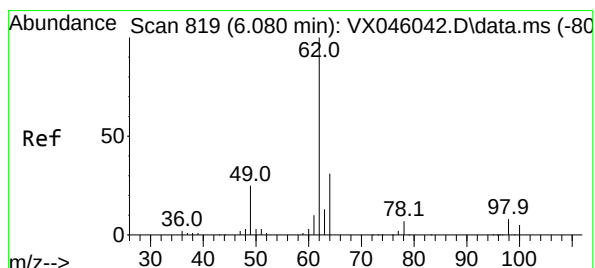
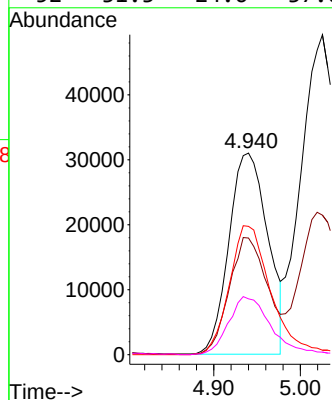
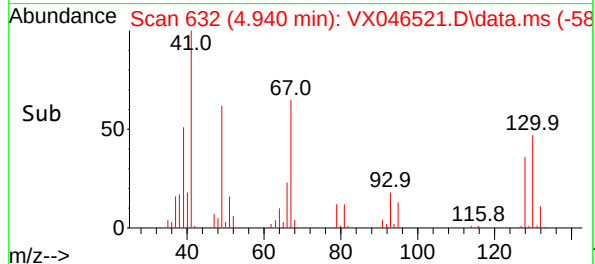
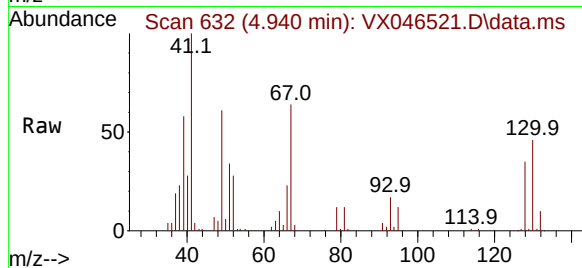
#41
Methacrylonitrile
Concen: 100.381 ug/l
RT: 4.940 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 41 Resp: 96904
Ion Ratio Lower Upper
41 100
39 56.4 47.2 70.8
67 68.8 50.7 76.1
52 31.3 24.6 37.0

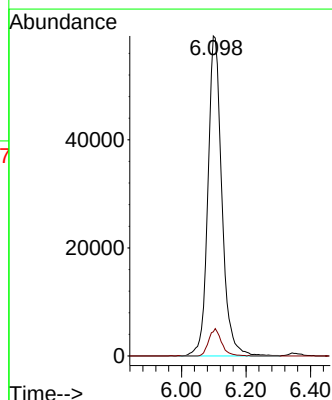
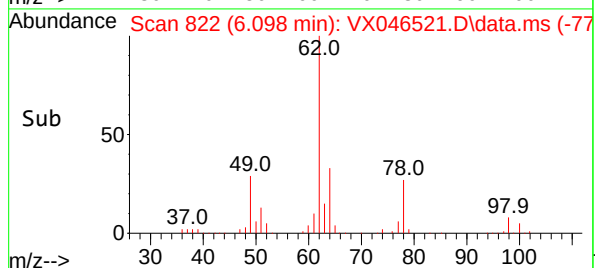
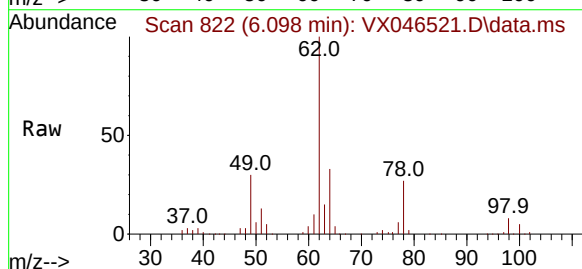
Manual Integrations
APPROVED

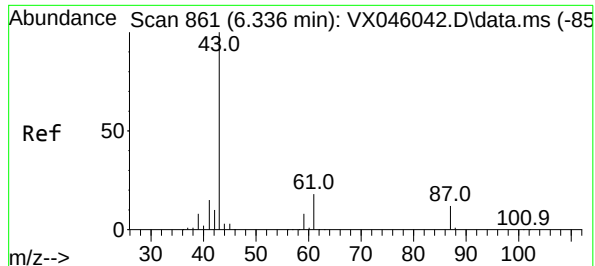
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#42
1,2-Dichloroethane
Concen: 95.311 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 62 Resp: 177798
Ion Ratio Lower Upper
62 100
98 7.9 0.0 15.2





#43

Isopropyl Acetate

Concen: 104.651 ug/l

RT: 6.354 min Scan# 864

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 28361

Ion Ratio Lower Upper

43 100

61 17.9 14.3 21.5

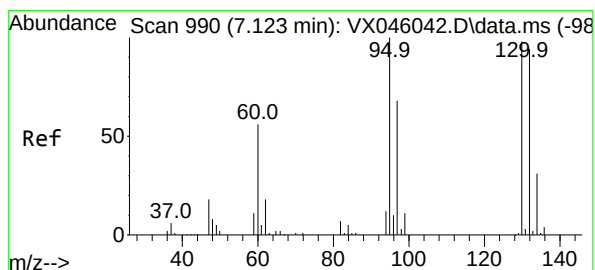
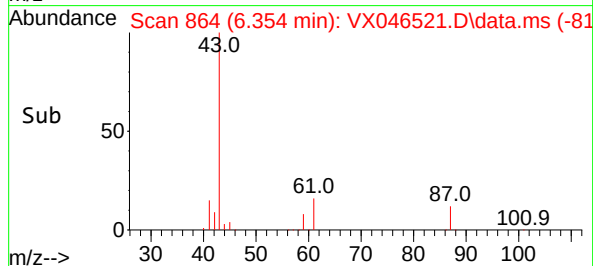
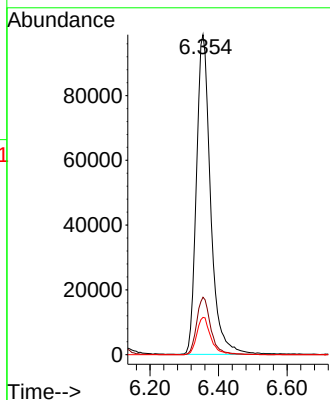
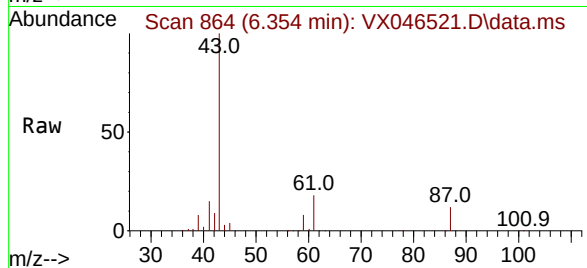
87 11.6 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#44

Trichloroethene

Concen: 88.399 ug/l

RT: 7.135 min Scan# 992

Delta R.T. 0.000 min

Lab File: VX046521.D

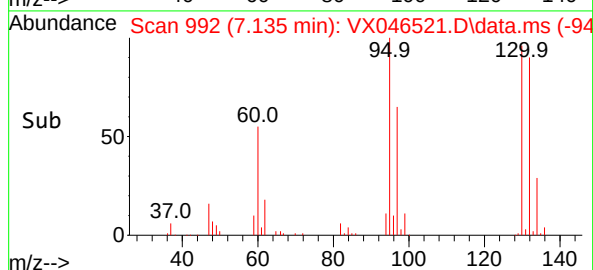
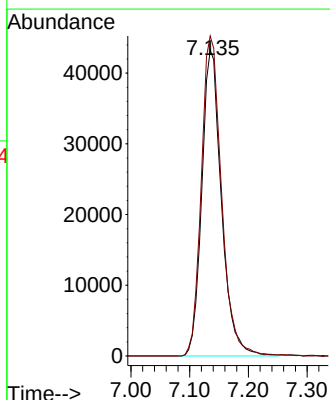
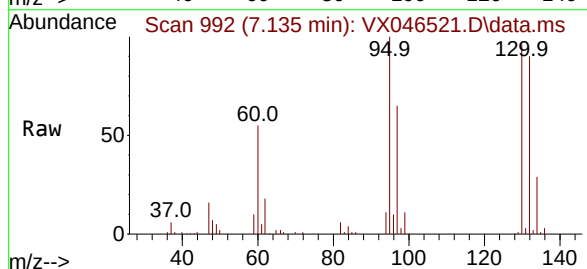
Acq: 06 Jun 2025 11:02

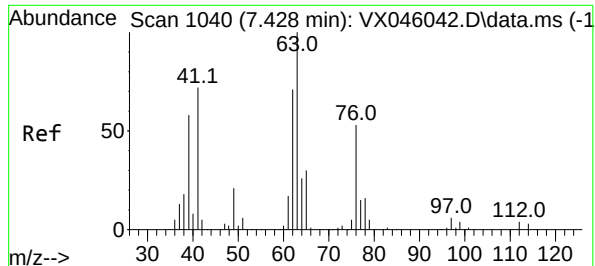
Tgt Ion:130 Resp: 100714

Ion Ratio Lower Upper

130 100

95 104.6 0.0 204.2





#45

1,2-Dichloropropane

Concen: 97.071 ug/l

RT: 7.440 min Scan# 1042

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 112349

Ion Ratio Lower Upper

63 100

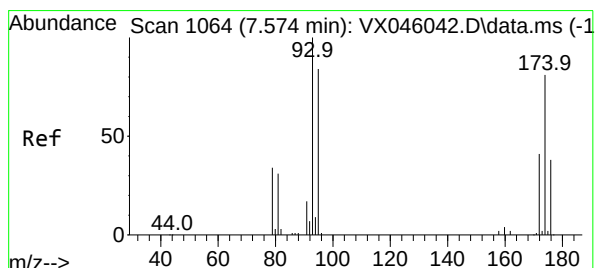
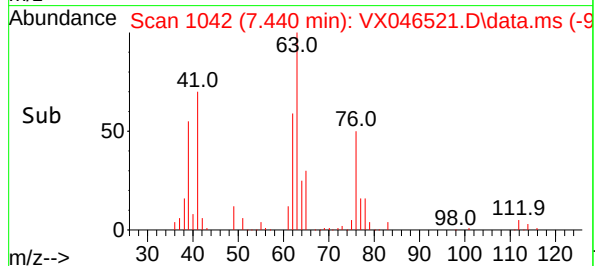
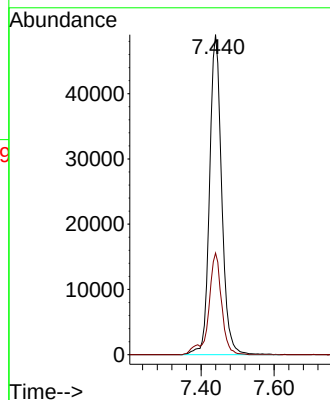
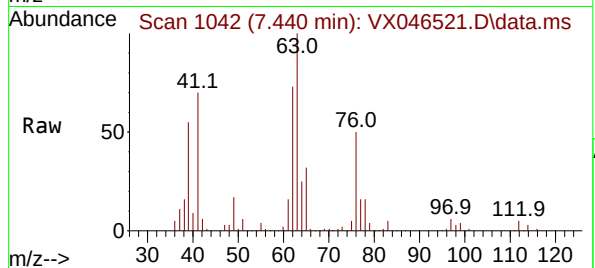
65 31.7 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#46

Dibromomethane

Concen: 94.883 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

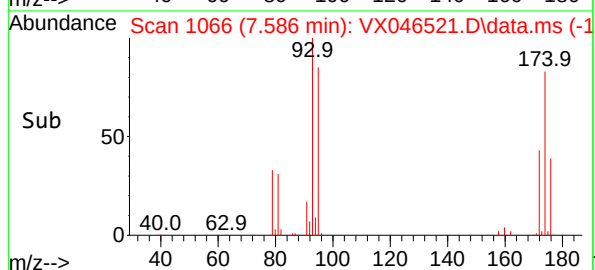
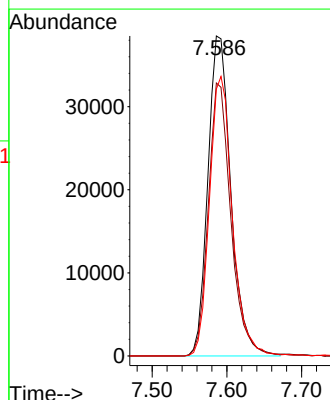
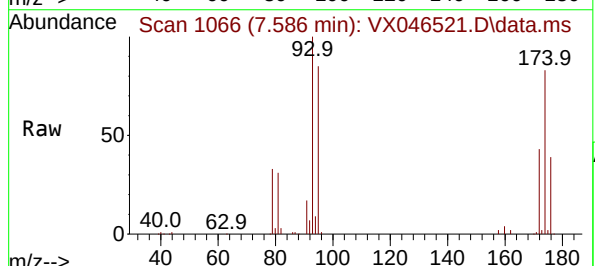
Tgt Ion: 93 Resp: 82614

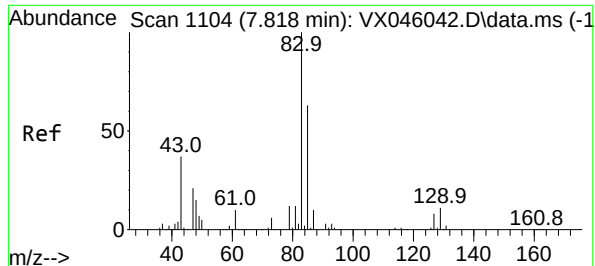
Ion Ratio Lower Upper

93 100

95 83.6 65.6 98.4

174 86.7 68.2 102.2





#47

Bromodichloromethane

Concen: 99.847 ug/l

RT: 7.830 min Scan# 1106

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 17875

Ion Ratio Lower Upper

83 100

85 63.5 50.5 75.7

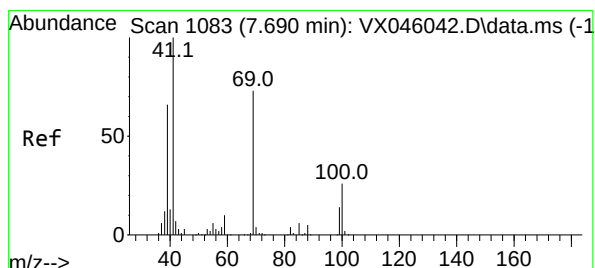
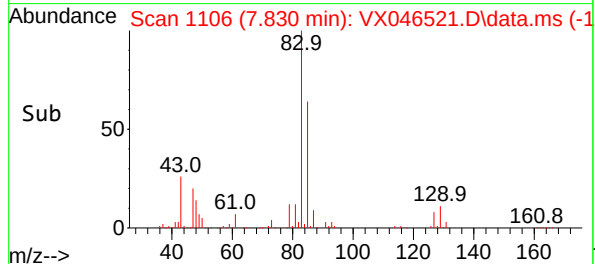
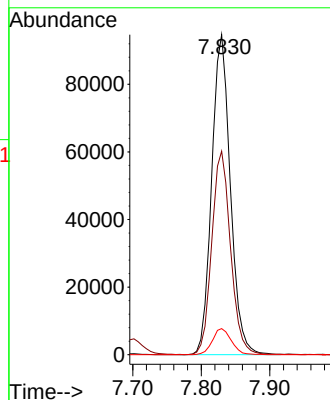
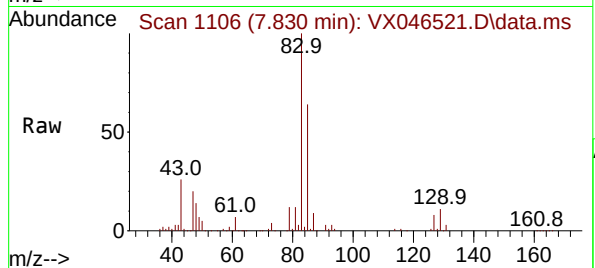
127 8.2 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#48

Methyl methacrylate

Concen: 106.461 ug/l

RT: 7.702 min Scan# 1085

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

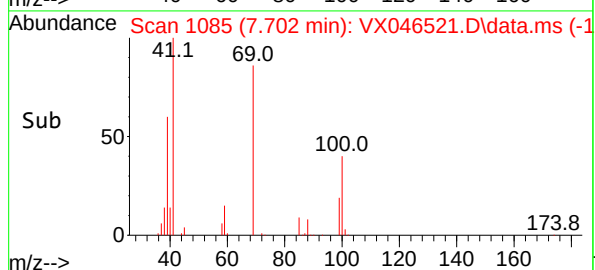
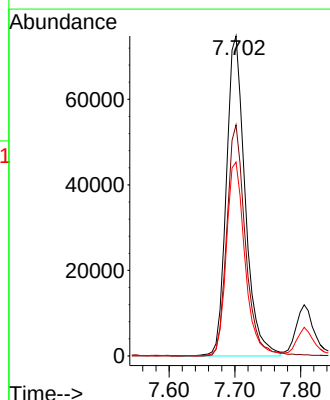
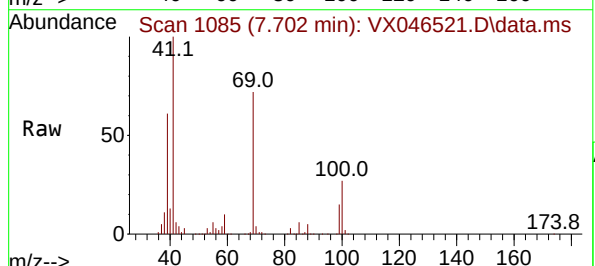
Tgt Ion: 41 Resp: 148448

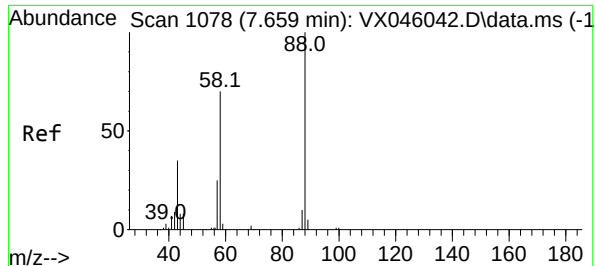
Ion Ratio Lower Upper

41 100

69 71.9 58.5 87.7

39 60.4 51.7 77.5





#49

1,4-Dioxane

Concen: 2119.509 ug/l

RT: 7.671 min Scan# 1080

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

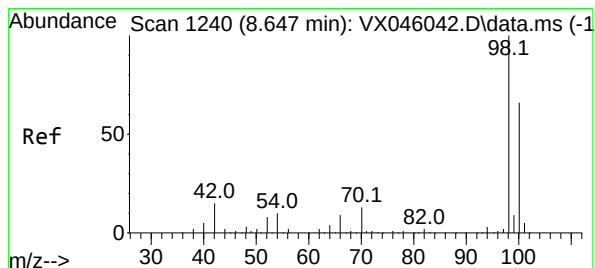
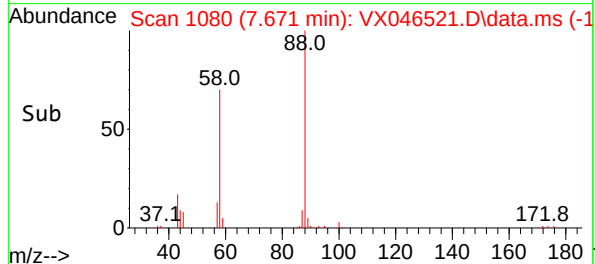
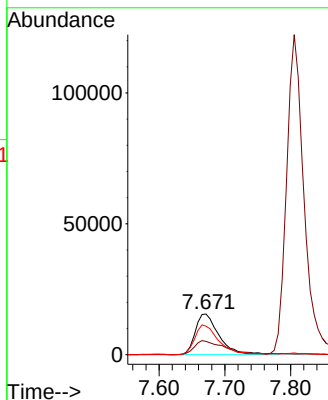
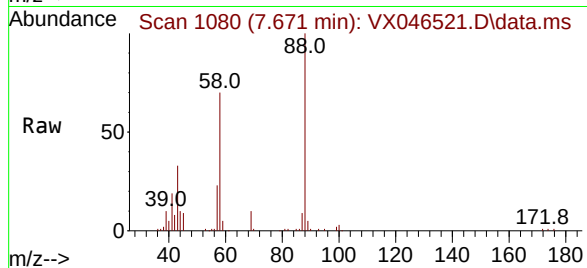
VSTDICC100

Tgt Ion:	88	Resp:	3952
Ion	Ratio	Lower	Upper
88	100		
43	42.2	33.4	50.2
58	73.9	58.6	88.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#50

Toluene-d8

Concen: 93.402 ug/l

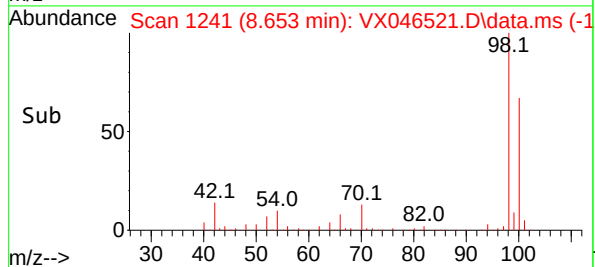
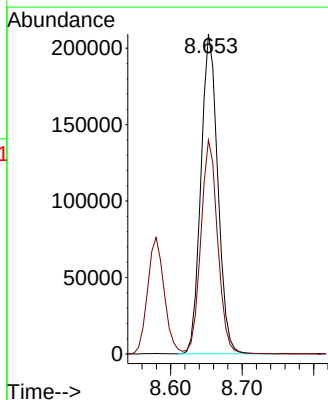
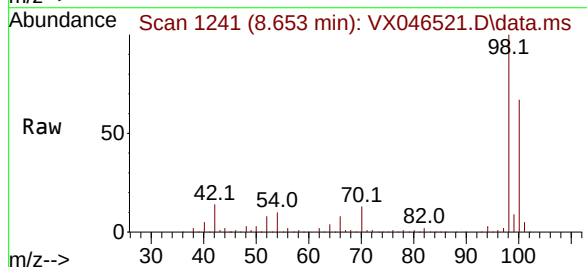
RT: 8.653 min Scan# 1241

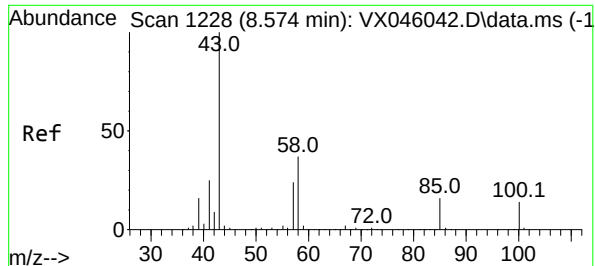
Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

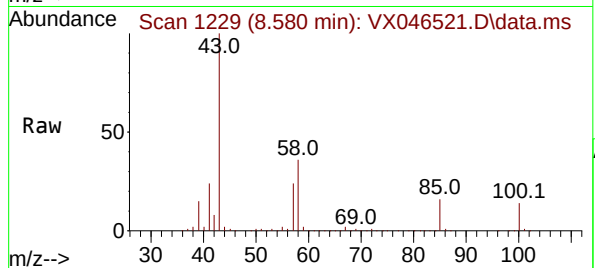
Tgt Ion:	98	Resp:	343367
Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.5	80.3





#51
4-Methyl-2-Pentanone
Concen: 512.682 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

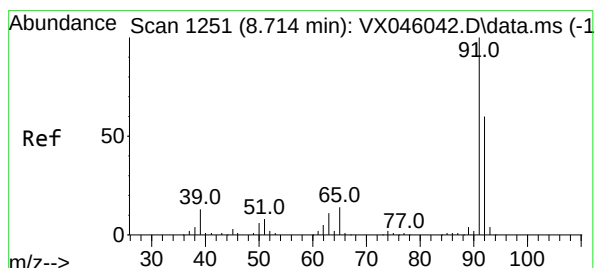
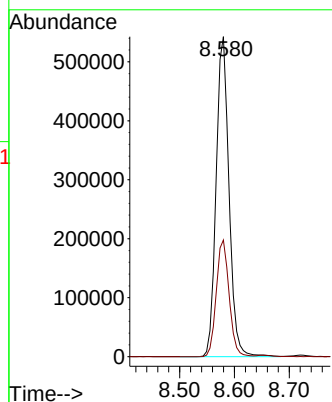
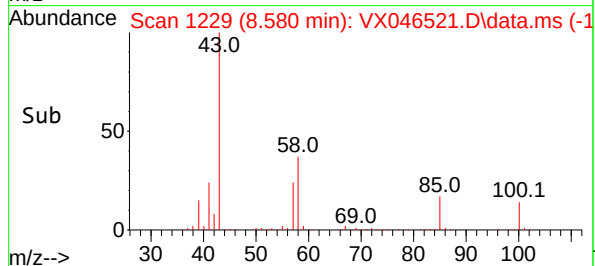
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 882920
Ion Ratio Lower Upper
43 100
58 36.4 28.9 43.3

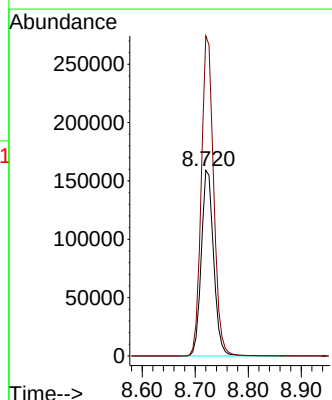
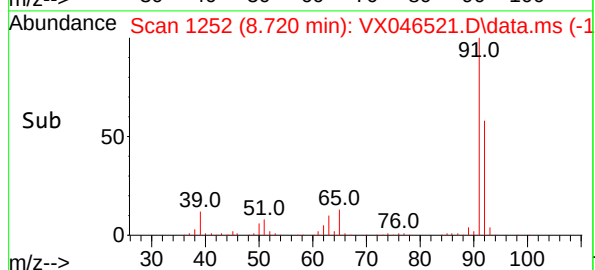
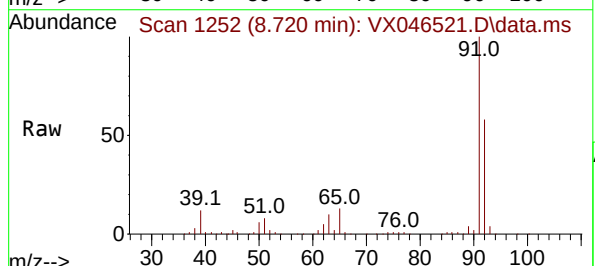
Manual Integrations
APPROVED

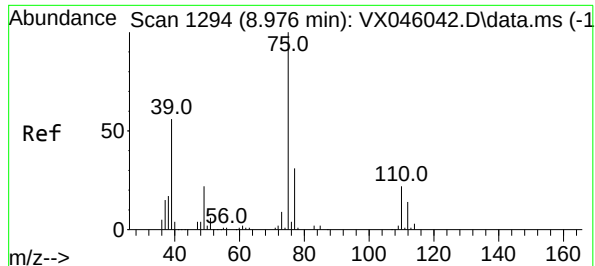
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#52
Toluene
Concen: 93.489 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 92 Resp: 257539
Ion Ratio Lower Upper
92 100
91 172.7 136.6 205.0





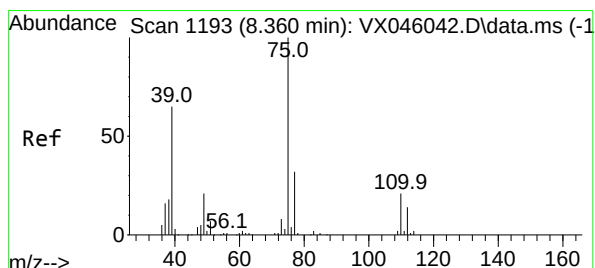
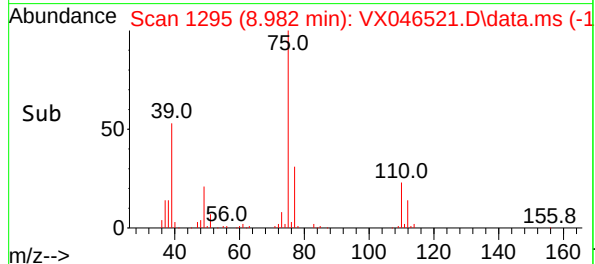
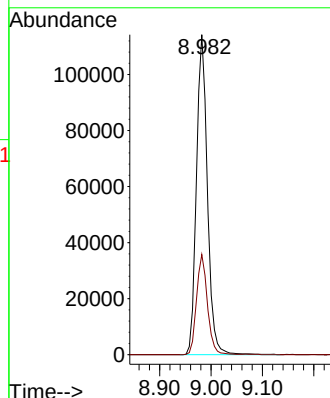
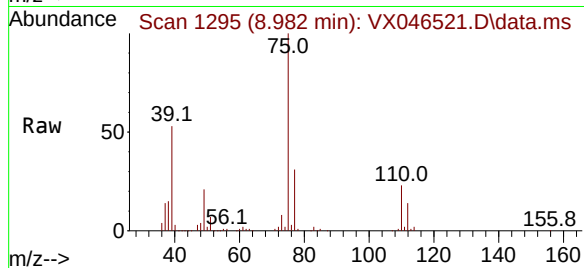
#53
t-1,3-Dichloropropene
Concen: 105.552 ug/l
RT: 8.982 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 16943
Ion Ratio Lower Upper
75 100
77 31.3 25.0 37.6

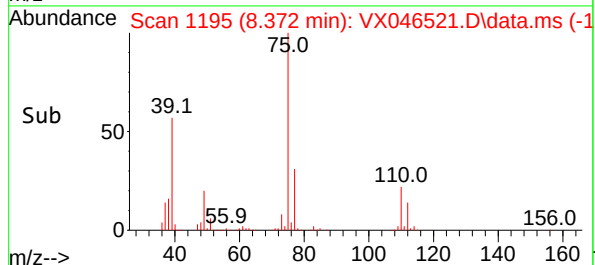
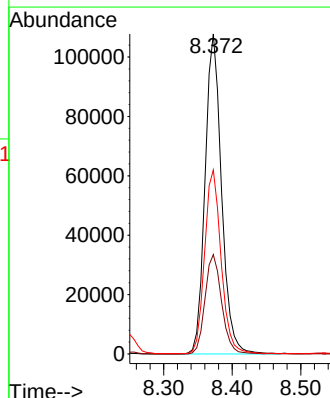
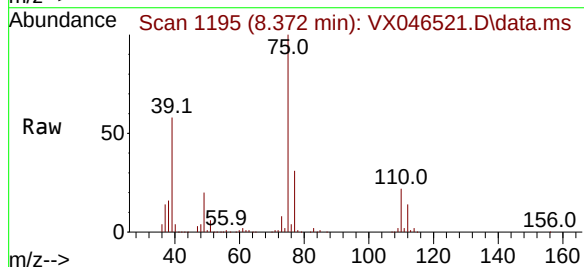
Manual Integrations
APPROVED

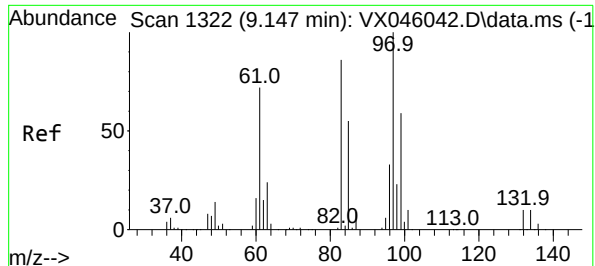
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#54
cis-1,3-Dichloropropene
Concen: 101.023 ug/l
RT: 8.372 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 75 Resp: 180299
Ion Ratio Lower Upper
75 100
77 31.1 25.4 38.0
39 57.4 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 97.502 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 97 Resp: 10782

Ion Ratio Lower Upper

97 100

83 86.6 69.0 103.6

85 55.5 44.3 66.5

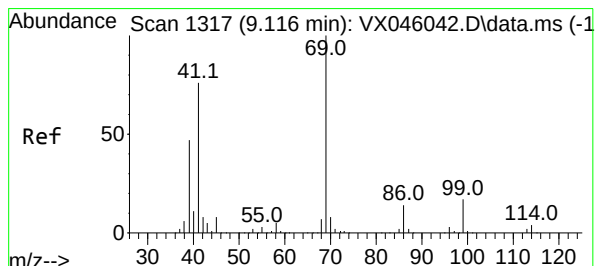
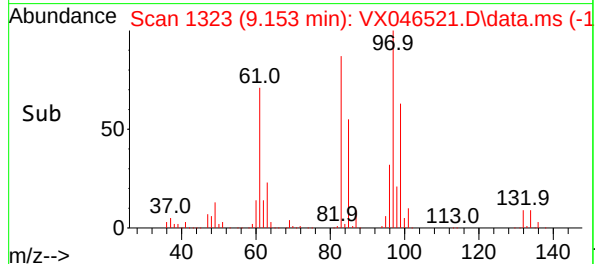
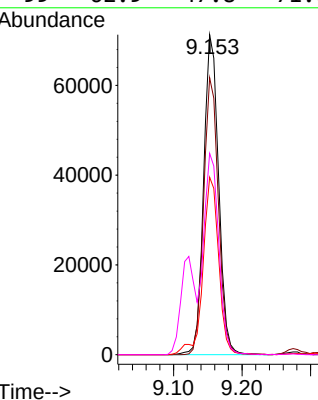
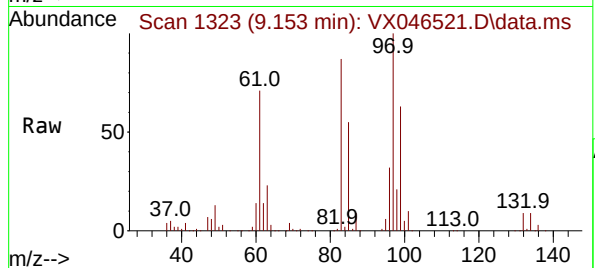
99 62.9 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#56

Ethyl methacrylate

Concen: 105.935 ug/l

RT: 9.122 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

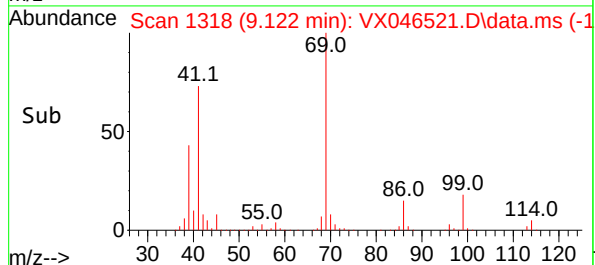
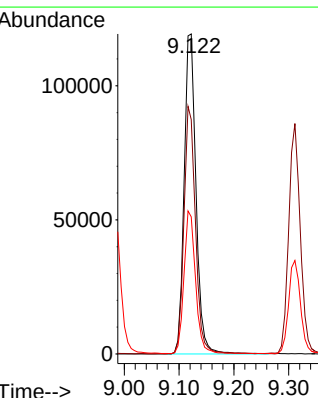
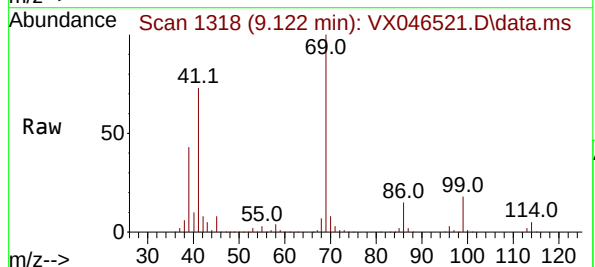
Tgt Ion: 69 Resp: 180282

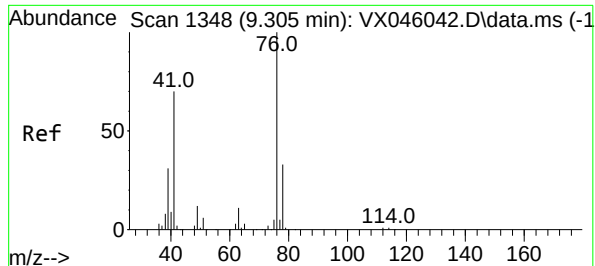
Ion Ratio Lower Upper

69 100

41 75.3 60.8 91.2

39 43.7 39.0 58.6





#57

1,3-Dichloropropane

Concen: 94.990 ug/l

RT: 9.311 min Scan# 1175

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 76 Resp: 18564

Ion Ratio Lower Upper

76 100

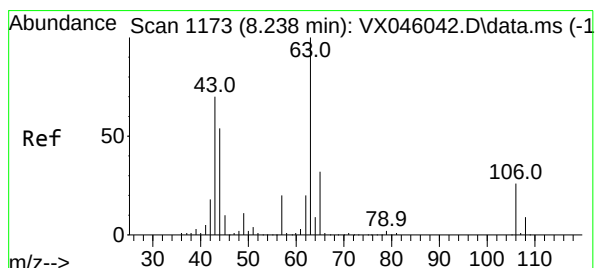
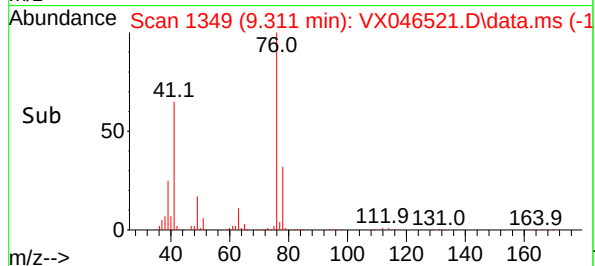
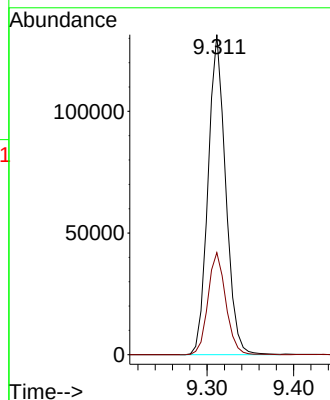
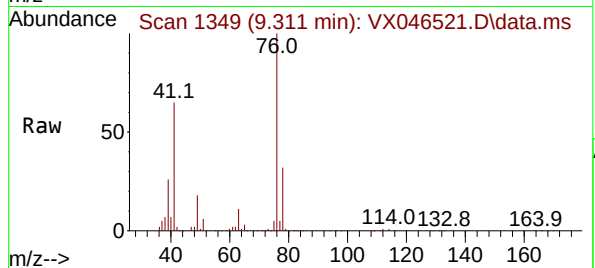
78 32.3 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#58

2-Chloroethyl Vinyl ether

Concen: 509.557 ug/l

RT: 8.250 min Scan# 1175

Delta R.T. 0.006 min

Lab File: VX046521.D

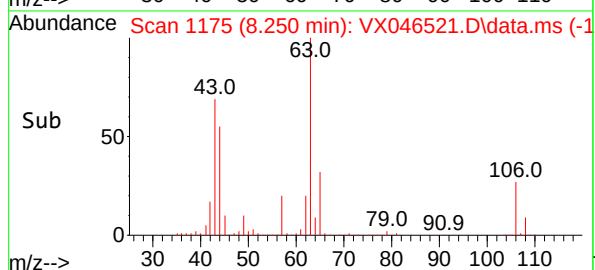
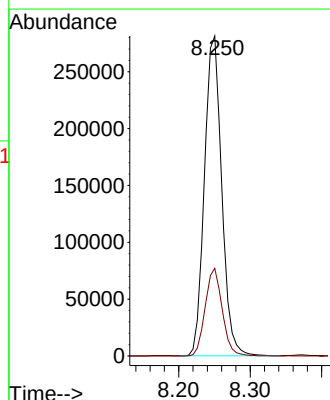
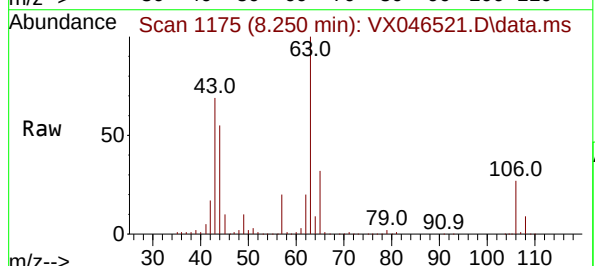
Acq: 06 Jun 2025 11:02

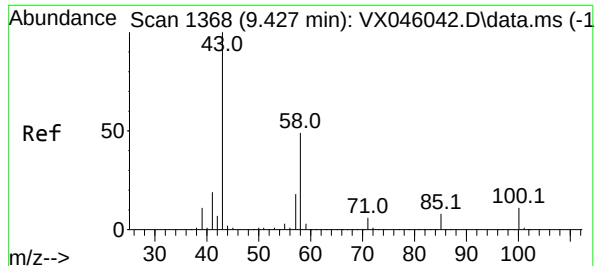
Tgt Ion: 63 Resp: 472343

Ion Ratio Lower Upper

63 100

106 27.0 21.5 32.3





#59

2-Hexanone

Concen: 514.792 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 635829

Ion Ratio Lower Upper

43 100

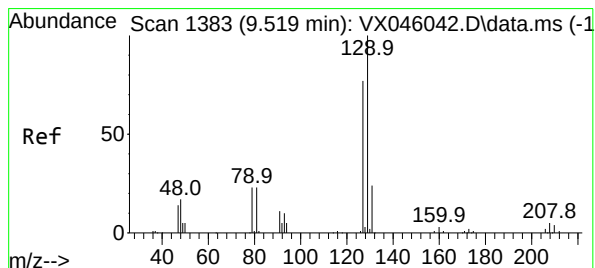
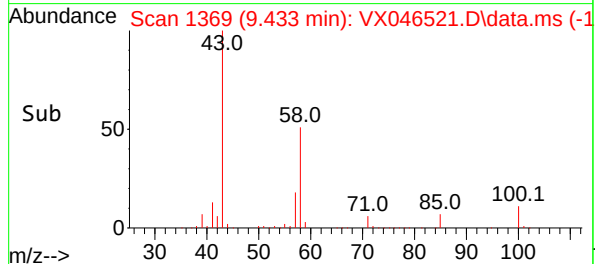
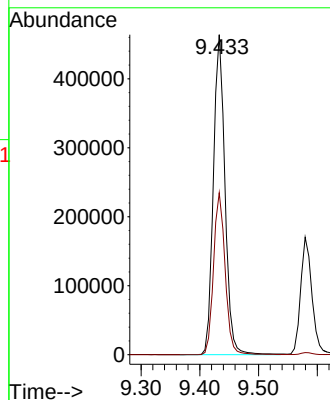
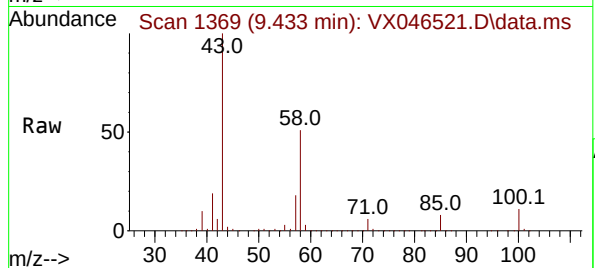
58 50.6 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#60

Dibromochloromethane

Concen: 98.404 ug/l

RT: 9.525 min Scan# 1384

Delta R.T. 0.000 min

Lab File: VX046521.D

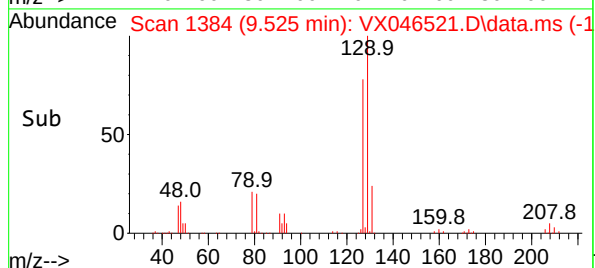
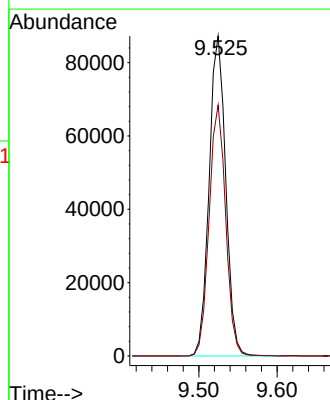
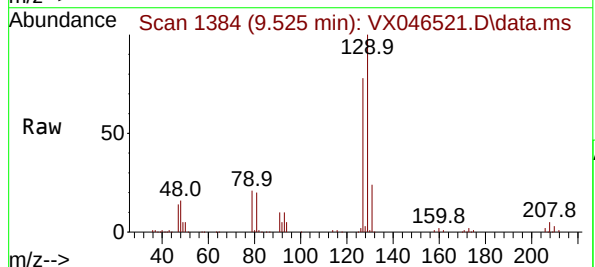
Acq: 06 Jun 2025 11:02

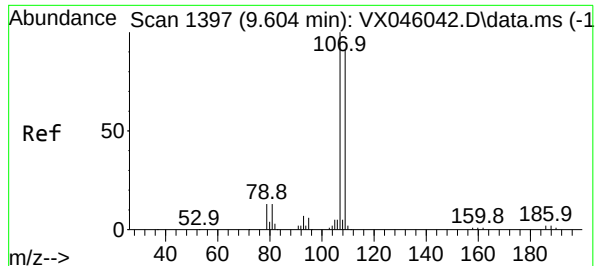
Tgt Ion:129 Resp: 128006

Ion Ratio Lower Upper

129 100

127 78.2 39.3 117.8





#61

1,2-Dibromoethane

Concen: 95.976 ug/l

RT: 9.610 min Scan# 11060

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:107 Resp: 11060

Ion Ratio Lower Upper

107 100

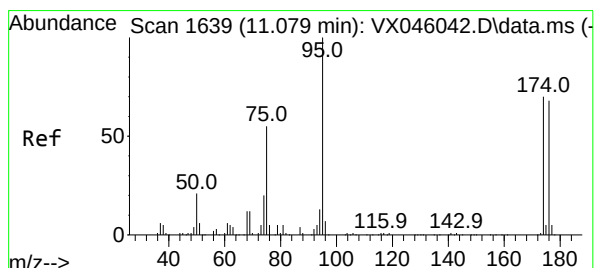
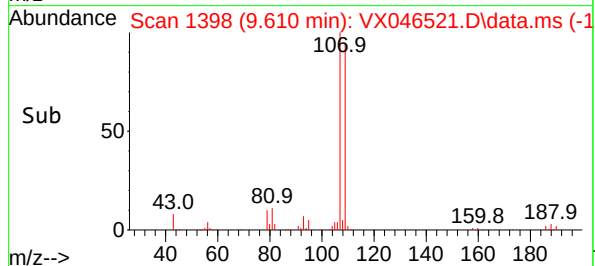
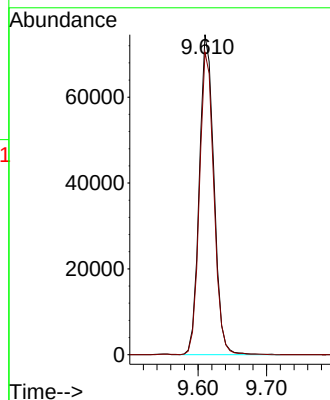
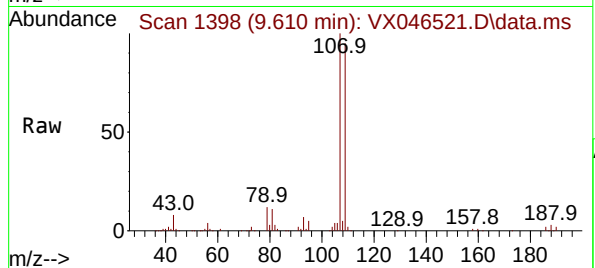
109 93.6 73.3 109.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#62

4-Bromofluorobenzene

Concen: 93.296 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

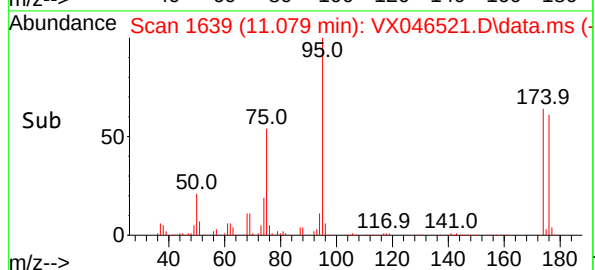
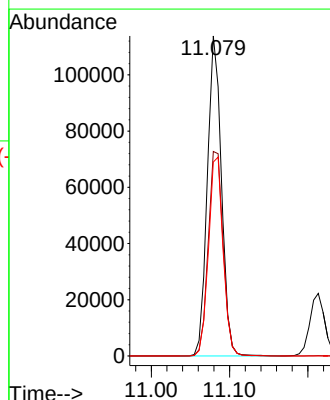
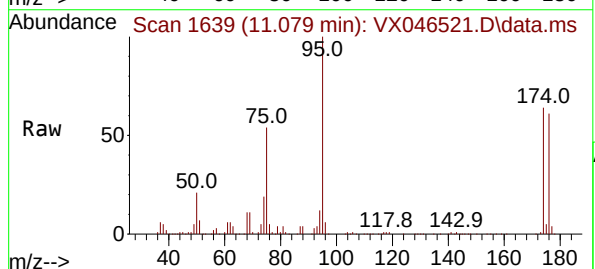
Tgt Ion: 95 Resp: 141905

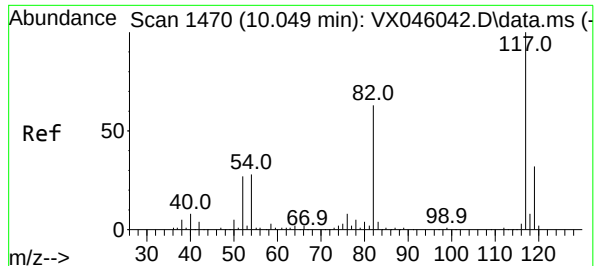
Ion Ratio Lower Upper

95 100

174 67.7 0.0 135.8

176 64.4 0.0 131.4





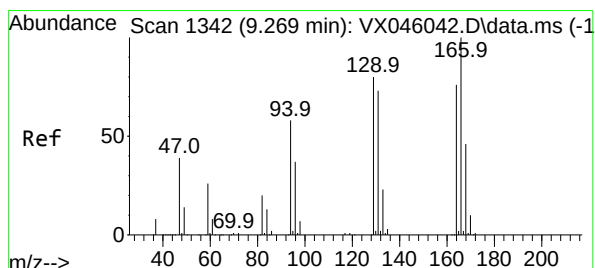
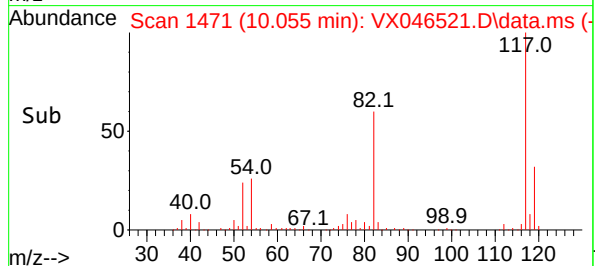
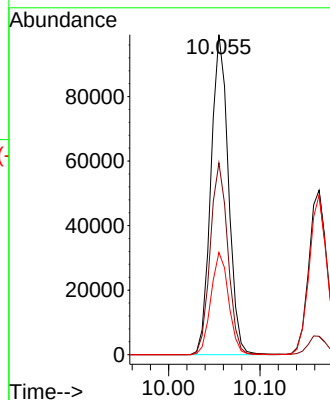
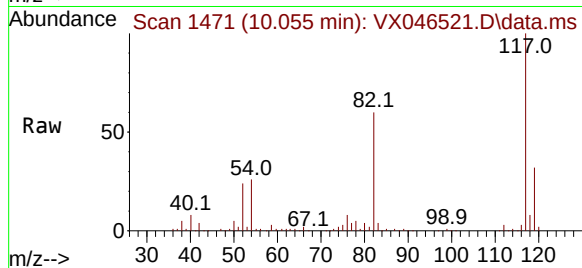
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 13192
Ion Ratio Lower Upper
117 100
82 59.9 50.6 76.0
119 32.0 25.8 38.6

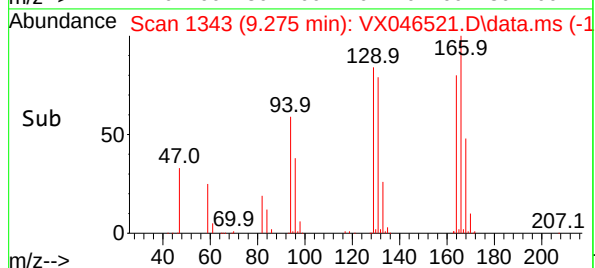
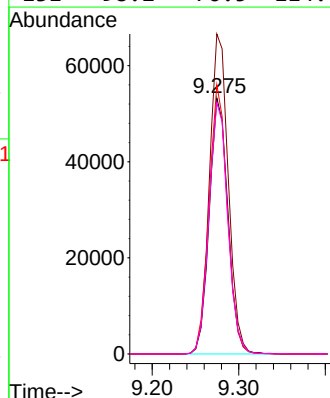
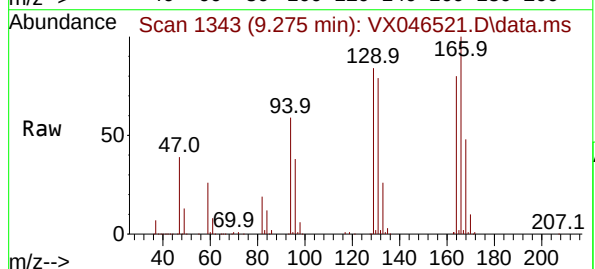
Manual Integrations
APPROVED

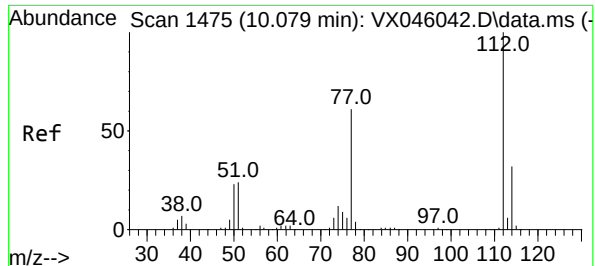
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#64
Tetrachloroethene
Concen: 90.169 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

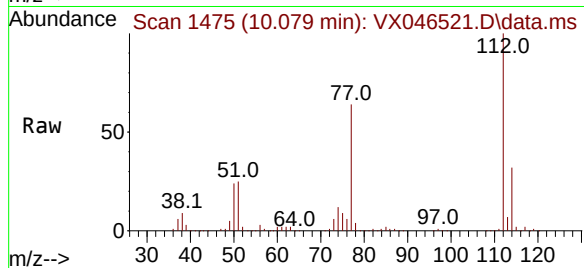
Tgt Ion:164 Resp: 79545
Ion Ratio Lower Upper
164 100
166 125.1 105.0 157.6
129 105.2 83.5 125.3
131 98.2 76.5 114.7





#65
Chlorobenzene
Concen: 93.171 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

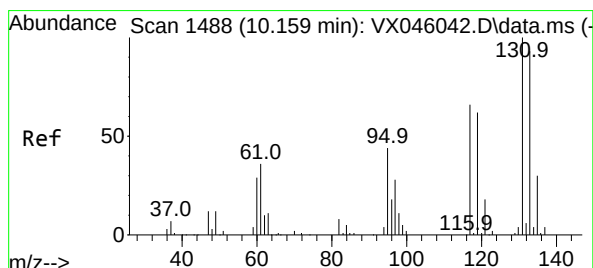
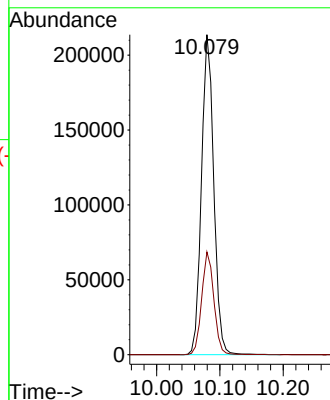
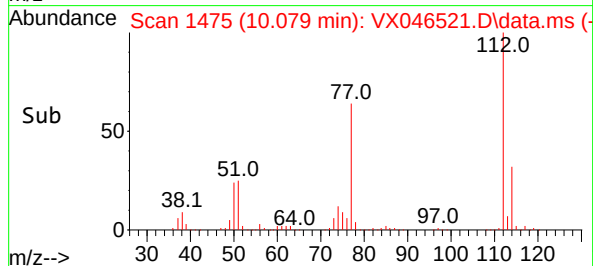
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



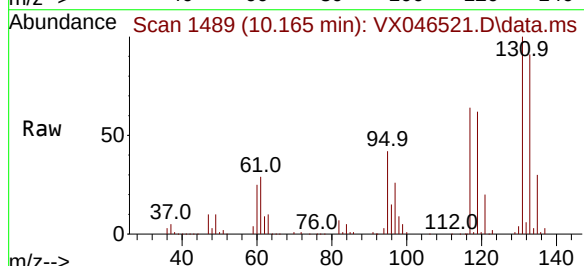
Tgt Ion:112 Resp: 289084
Ion Ratio Lower Upper
112 100
114 32.1 25.4 38.2

Manual Integrations
APPROVED

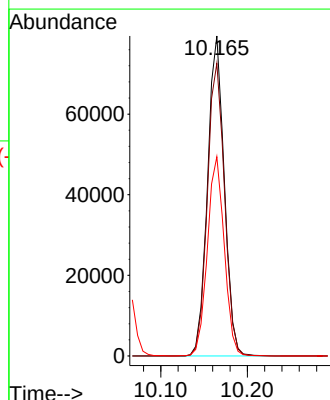
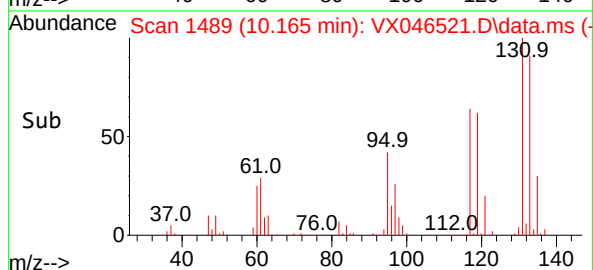
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

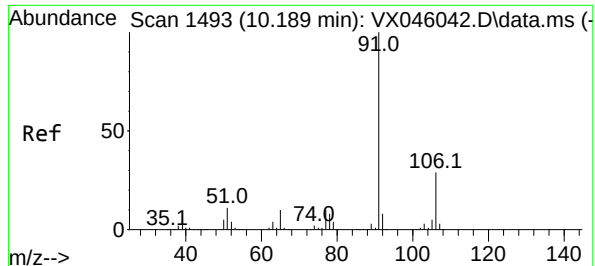


#66
1,1,1,2-Tetrachloroethane
Concen: 101.705 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02



Tgt Ion:131 Resp: 106634
Ion Ratio Lower Upper
131 100
133 93.7 47.3 141.9
119 62.8 31.6 95.0





#67

Ethyl Benzene

Concen: 96.013 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 520064

Ion Ratio Lower Upper

91 100

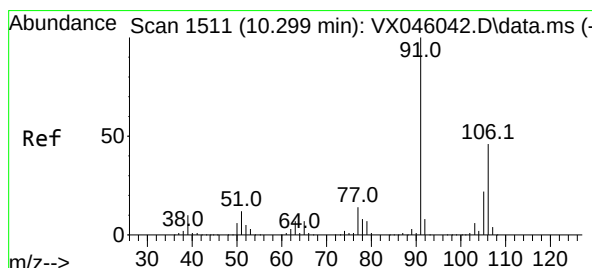
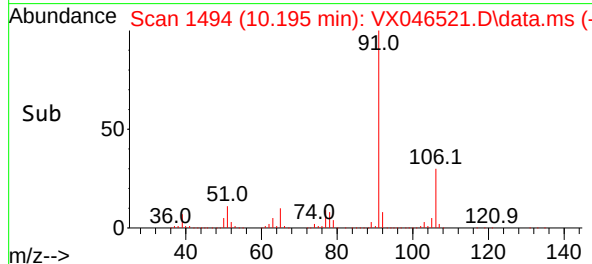
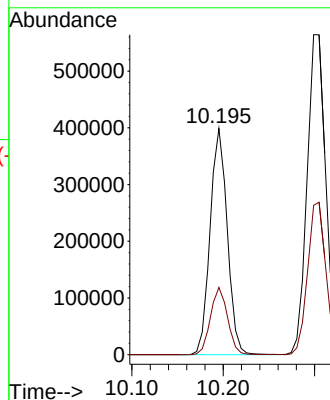
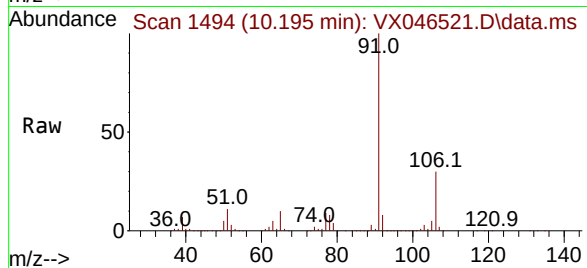
106 29.7 23.4 35.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#68

m/p-Xylenes

Concen: 191.829 ug/l

RT: 10.305 min Scan# 1512

Delta R.T. 0.006 min

Lab File: VX046521.D

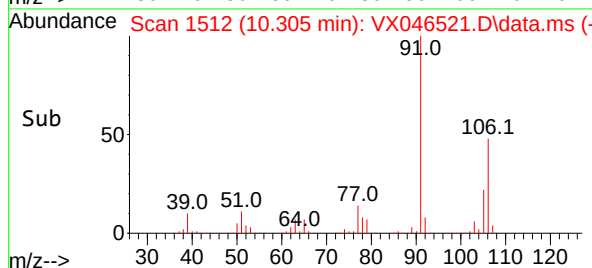
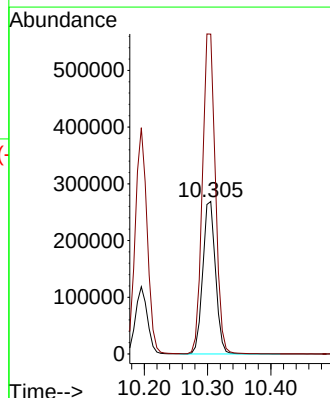
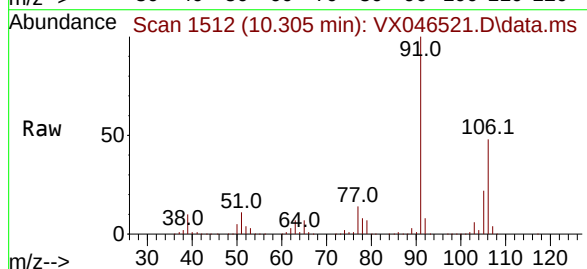
Acq: 06 Jun 2025 11:02

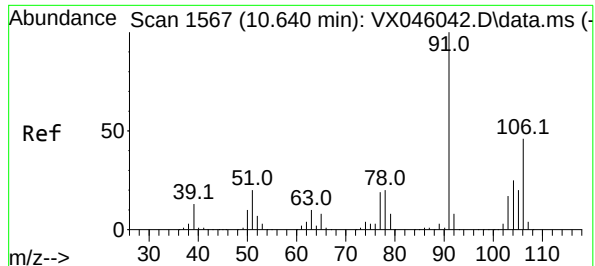
Tgt Ion:106 Resp: 376918

Ion Ratio Lower Upper

106 100

91 213.4 171.2 256.8





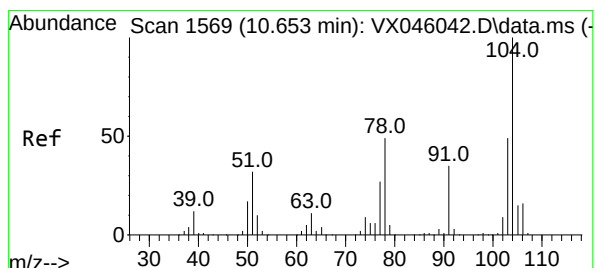
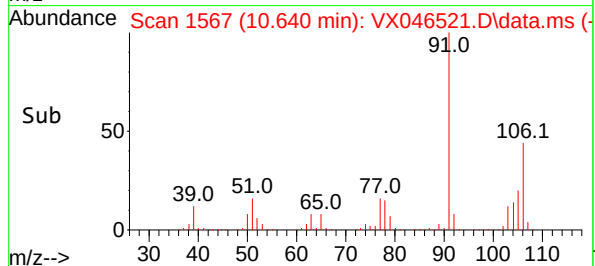
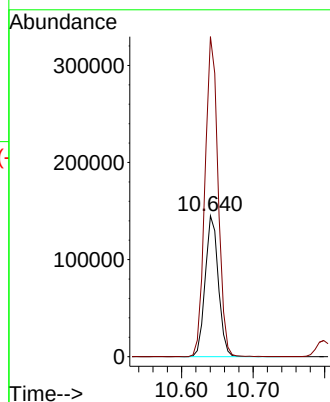
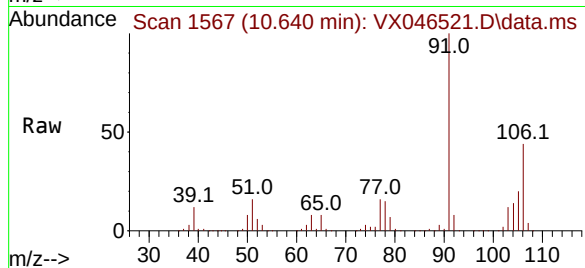
#69
o-Xylene
Concen: 97.576 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 18544
Ion Ratio Lower Upper
106 100
91 225.9 112.7 338.1

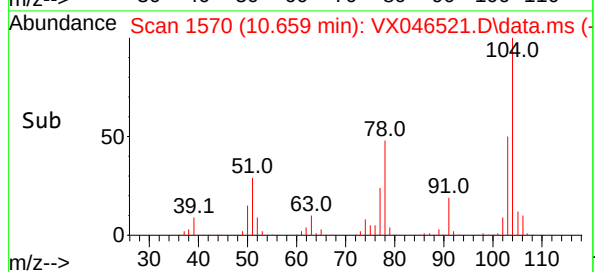
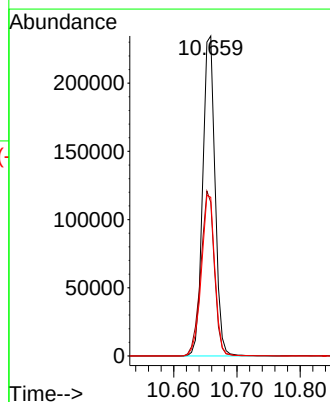
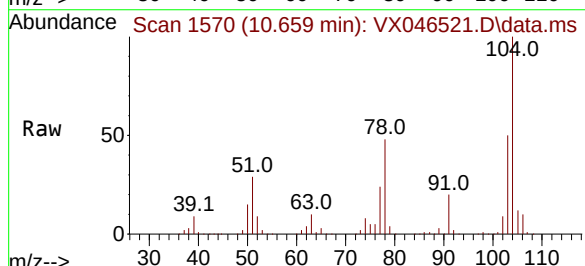
Manual Integrations
APPROVED

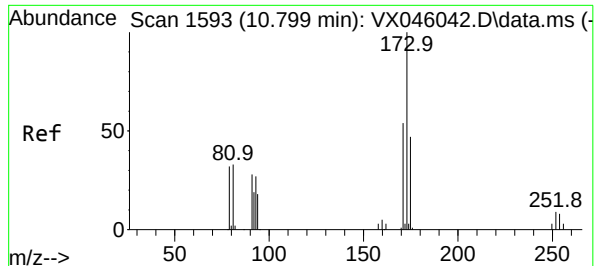
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#70
Styrene
Concen: 98.362 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

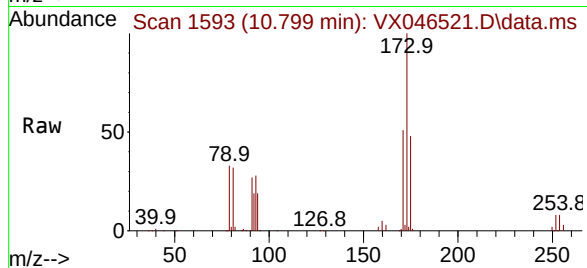
Tgt Ion:104 Resp: 319998
Ion Ratio Lower Upper
104 100
78 56.4 45.7 68.5
103 54.7 43.7 65.5





#71
Bromoform
Concen: 104.541 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

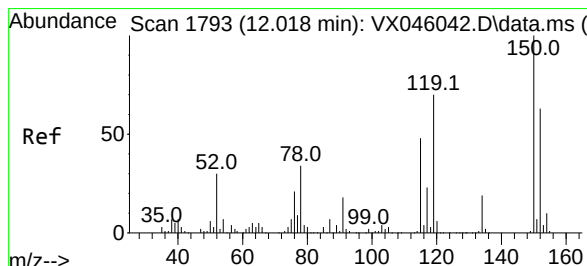
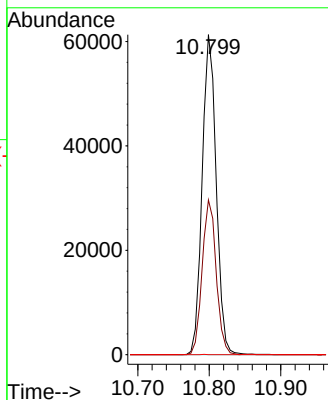
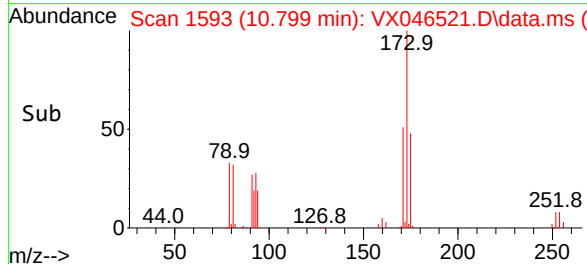
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



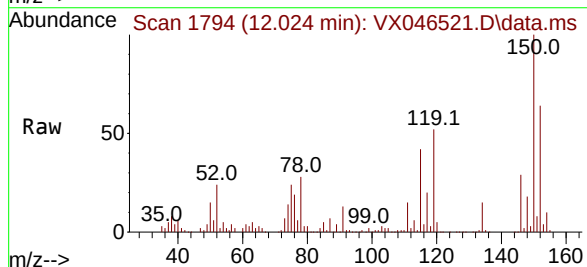
Tgt Ion:173 Resp: 83574
Ion Ratio Lower Upper
173 100
175 48.4 23.4 70.0
254 0.0 0.0 0.0

Manual Integrations
APPROVED

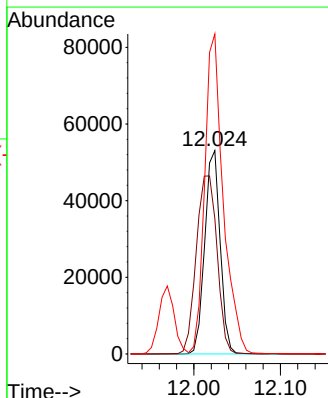
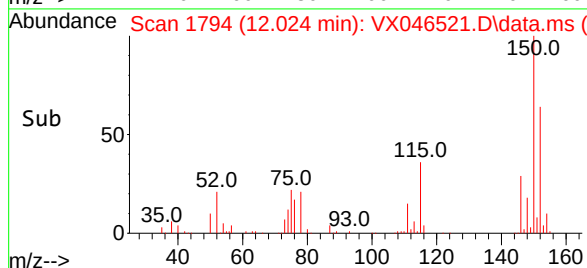
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

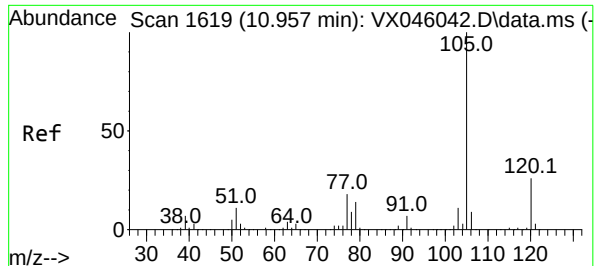


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02



Tgt Ion:152 Resp: 65495
Ion Ratio Lower Upper
152 100
115 118.0 46.9 140.7
150 188.9 0.0 351.0





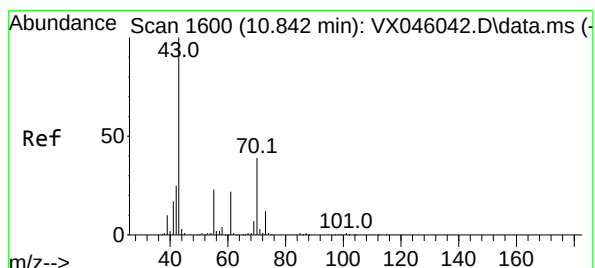
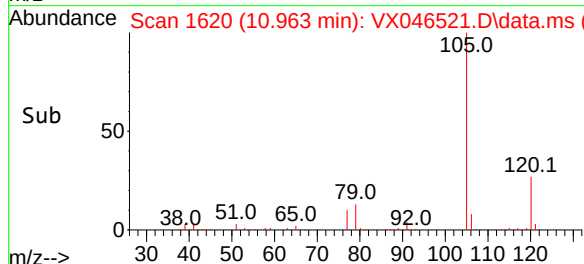
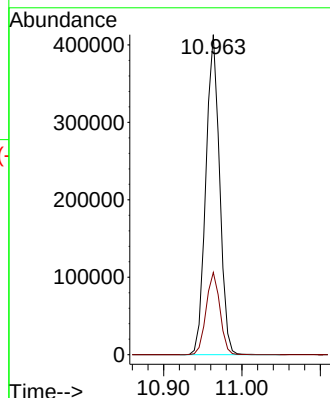
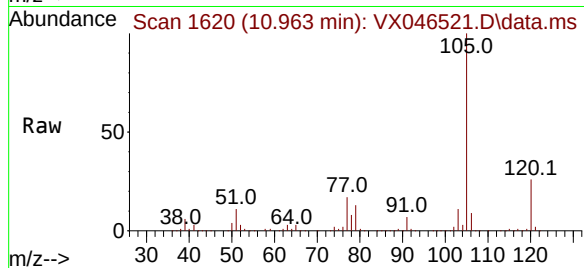
#73
Isopropylbenzene
Concen: 97.400 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 501468
Ion Ratio Lower Upper
105 100
120 25.8 12.8 38.4

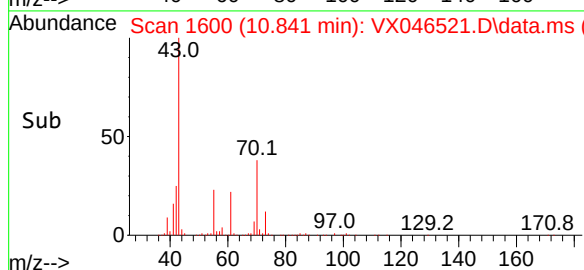
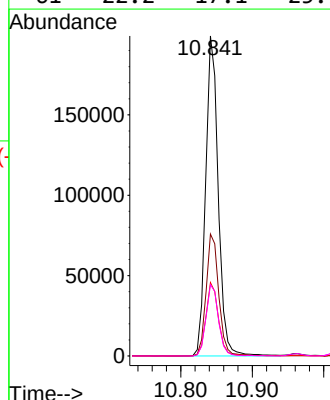
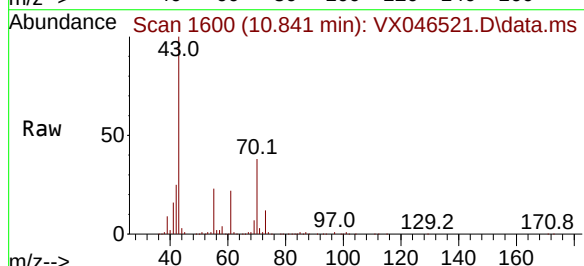
Manual Integrations
APPROVED

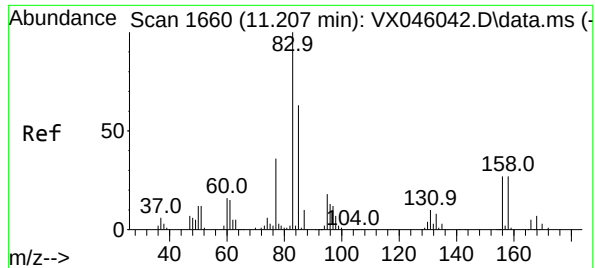
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#74
N-ethyl acetate
Concen: 107.123 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 43 Resp: 242879
Ion Ratio Lower Upper
43 100
70 38.6 30.9 46.3
55 23.1 18.7 28.1
61 22.2 17.1 25.7





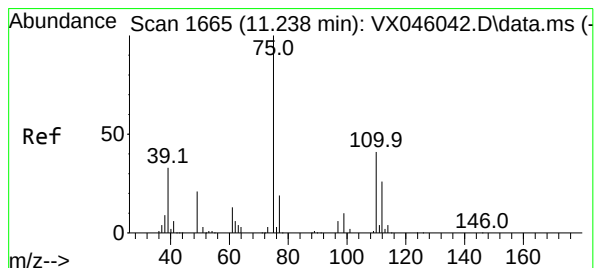
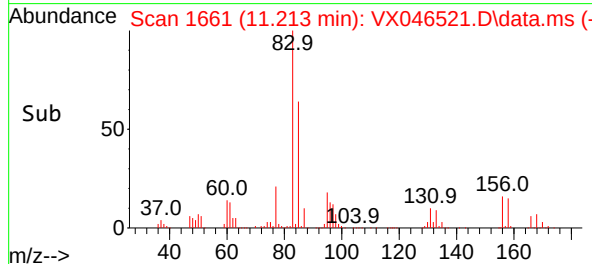
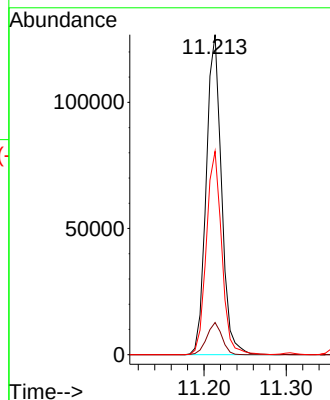
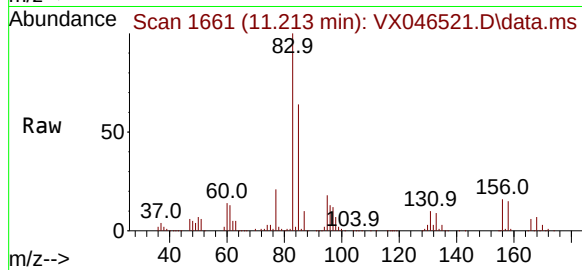
#75
1,1,2,2-Tetrachloroethane
Concen: 99.288 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 163624
Ion Ratio Lower Upper
83 100
131 10.0 5.0 14.9
85 63.9 31.9 95.7

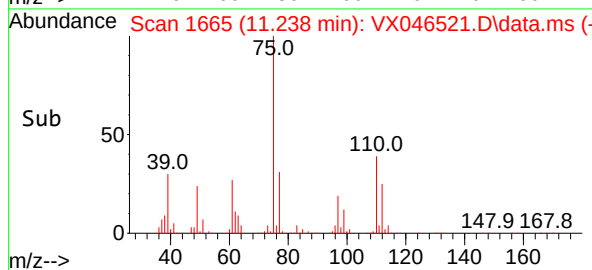
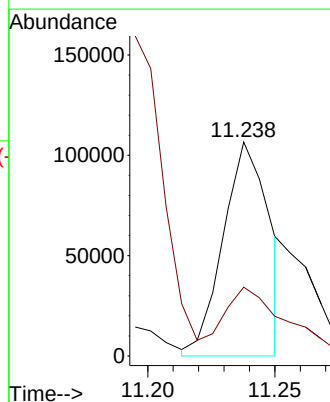
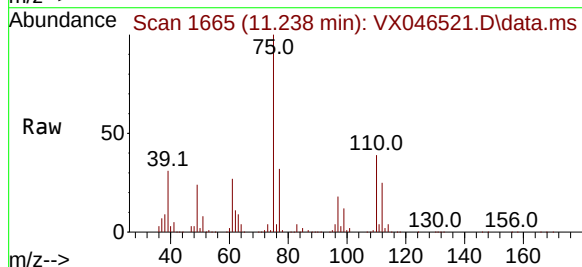
Manual Integrations
APPROVED

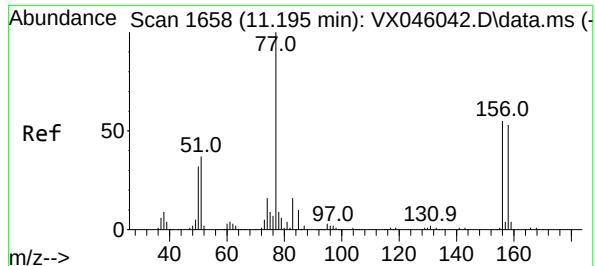
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#76
1,2,3-Trichloropropane
Concen: 95.251 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

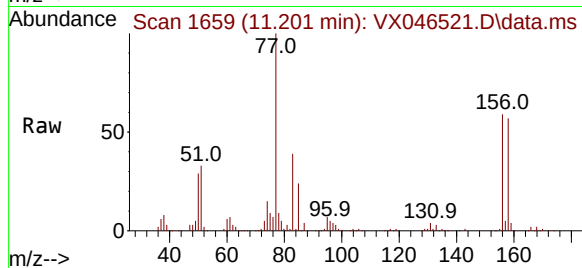
Tgt Ion: 75 Resp: 134330
Ion Ratio Lower Upper
75 100
77 44.0 20.5 61.5





#77
Bromobenzene
Concen: 96.236 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

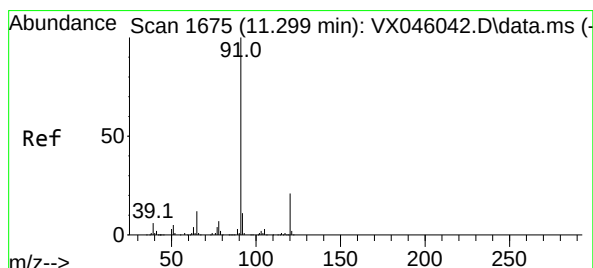
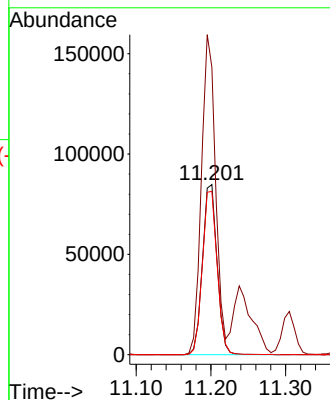
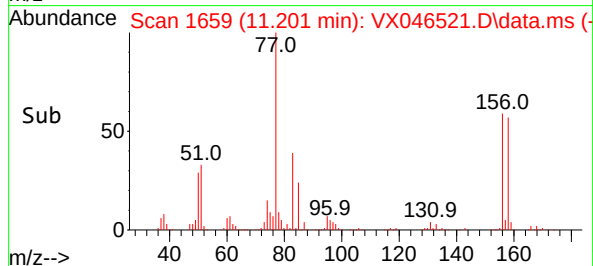
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:156 Resp: 115000
Ion Ratio Lower Upper
156 100
77 181.7 92.8 278.3
158 97.3 48.8 146.3

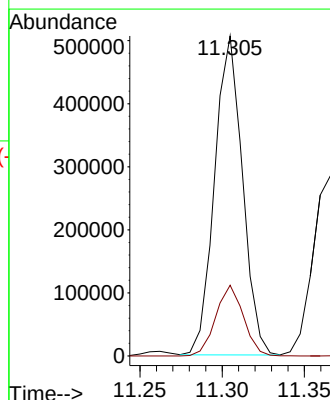
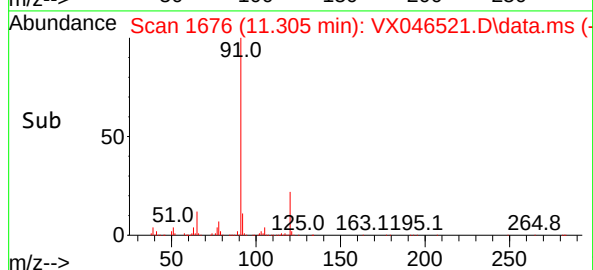
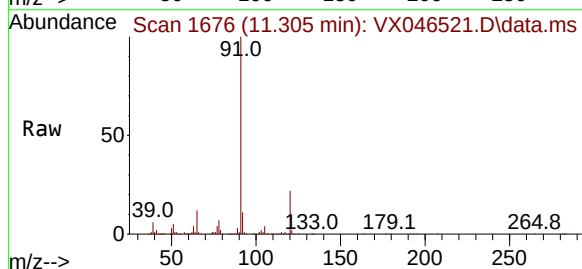
Manual Integrations
APPROVED

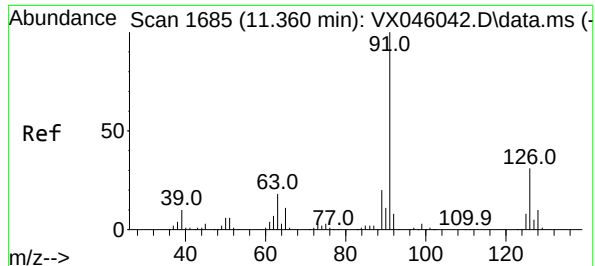
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#78
n-propylbenzene
Concen: 95.703 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 91 Resp: 596385
Ion Ratio Lower Upper
91 100
120 22.0 10.8 32.4





#79

2-Chlorotoluene

Concen: 94.839 ug/l

RT: 11.366 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 356389

Ion Ratio Lower Upper

91 100

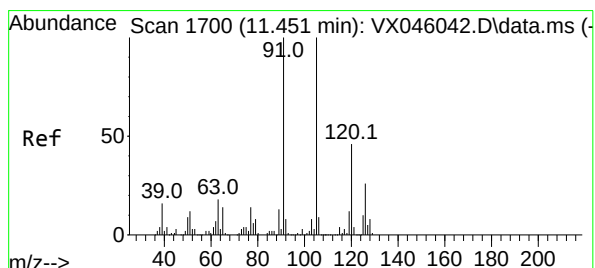
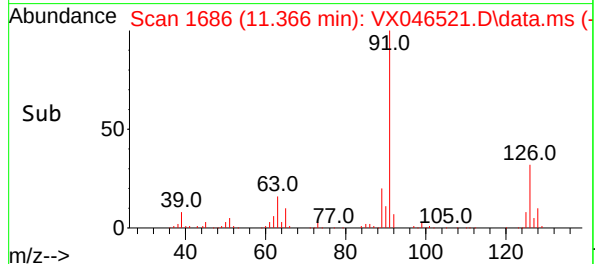
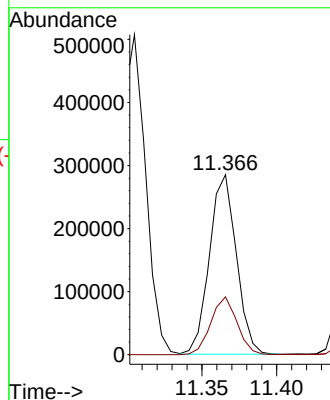
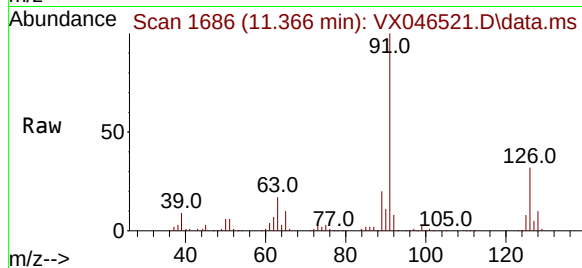
126 31.4 15.6 46.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#80

1,3,5-Trimethylbenzene

Concen: 96.089 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046521.D

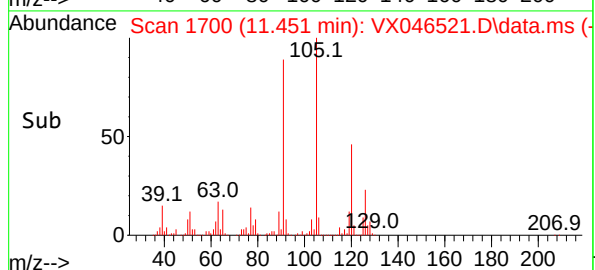
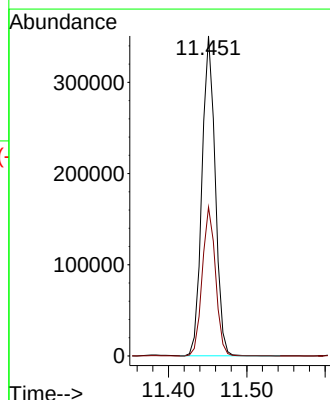
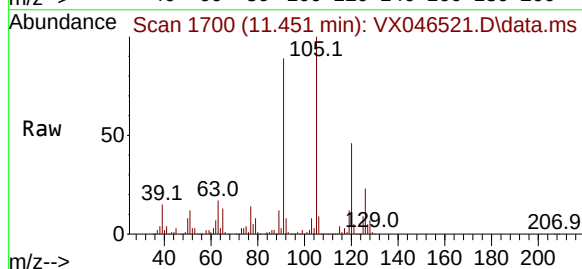
Acq: 06 Jun 2025 11:02

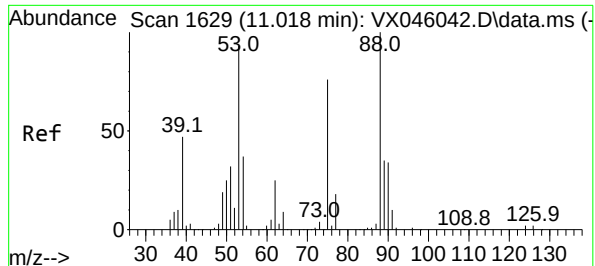
Tgt Ion:105 Resp: 412251

Ion Ratio Lower Upper

105 100

120 46.6 23.1 69.2





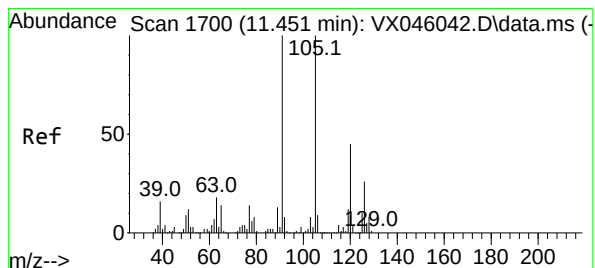
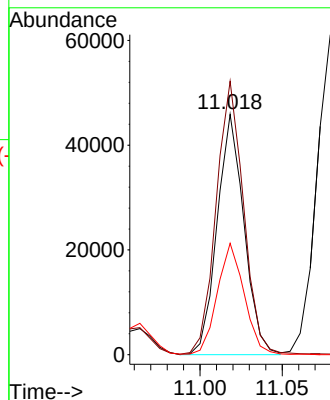
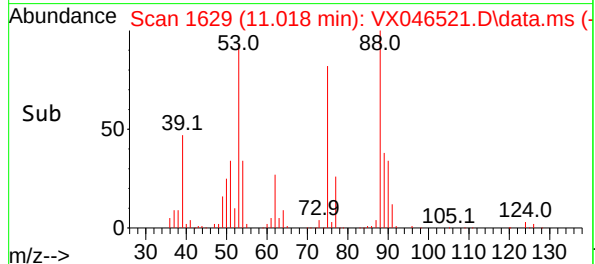
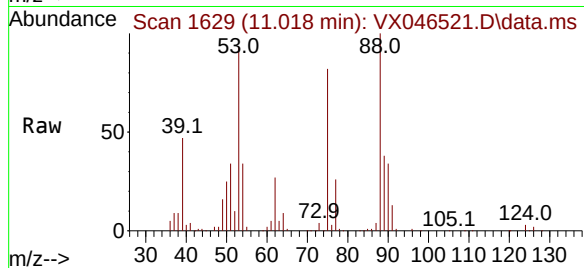
#81
trans-1,4-Dichloro-2-butene
Concen: 108.338 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 5210
Ion Ratio Lower Upper
75 100
53 115.7 100.5 150.7
89 46.5 37.0 55.6

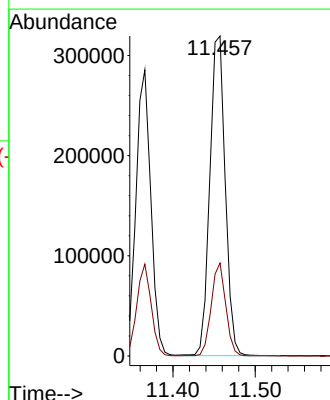
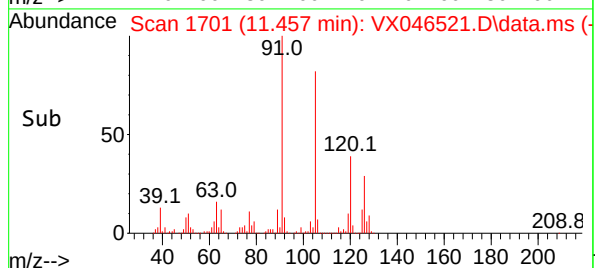
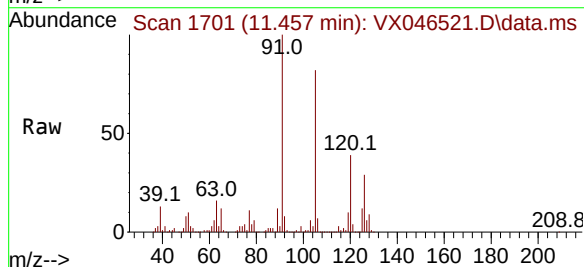
Manual Integrations
APPROVED

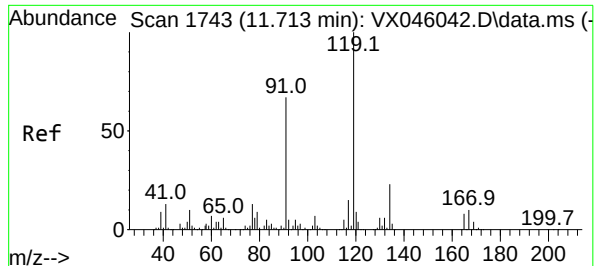
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#82
4-Chlorotoluene
Concen: 93.429 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

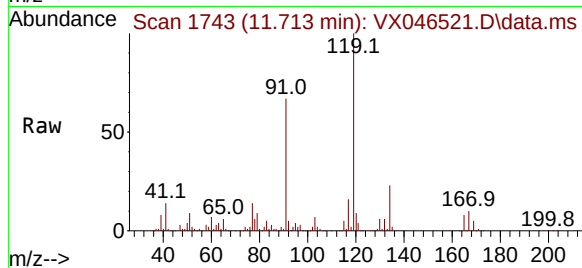
Tgt Ion: 91 Resp: 416150
Ion Ratio Lower Upper
91 100
126 27.3 13.3 39.8





#83
tert-Butylbenzene
Concen: 97.420 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

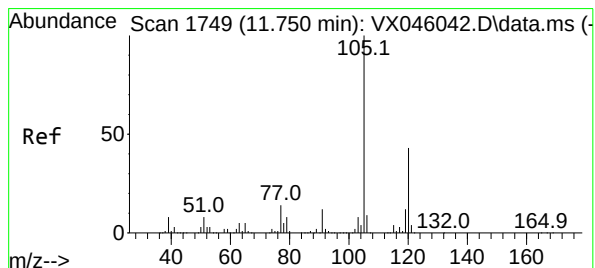
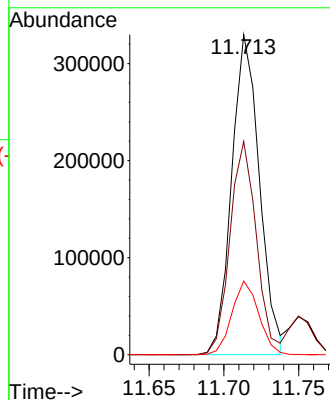
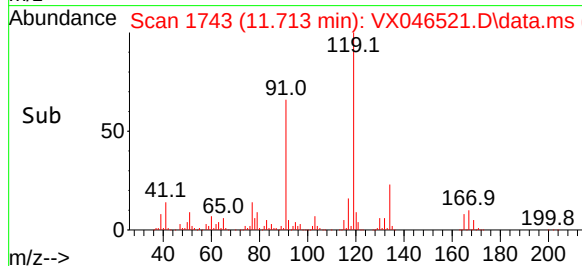
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100



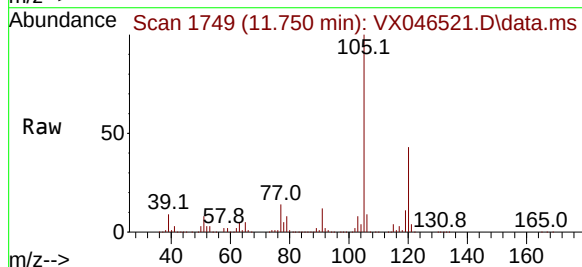
Tgt Ion:119 Resp: 425478
Ion Ratio Lower Upper
119 100
91 63.6 32.9 98.7
134 22.2 11.4 34.1

Manual Integrations
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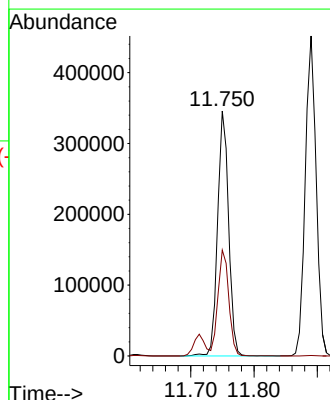
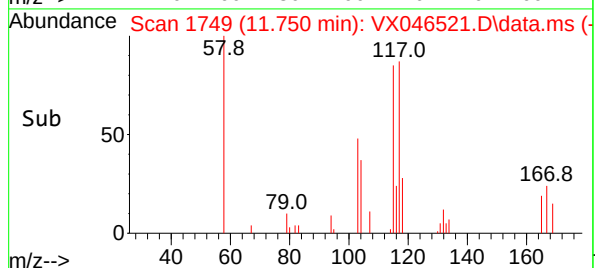
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

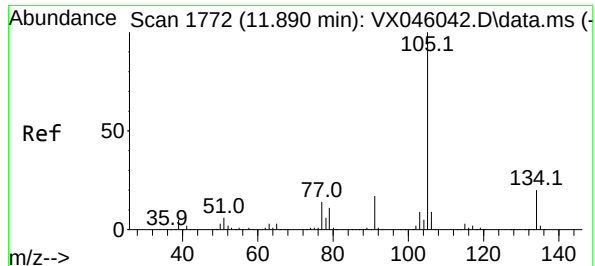


#84
1,2,4-Trimethylbenzene
Concen: 96.397 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02



Tgt Ion:105 Resp: 418383
Ion Ratio Lower Upper
105 100
120 42.5 21.2 63.6





#85

sec-Butylbenzene

Concen: 95.599 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:105 Resp: 53648

Ion Ratio Lower Upper

105 100

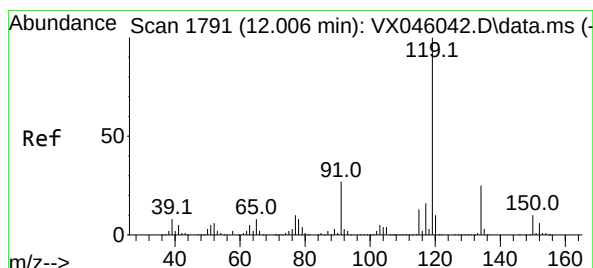
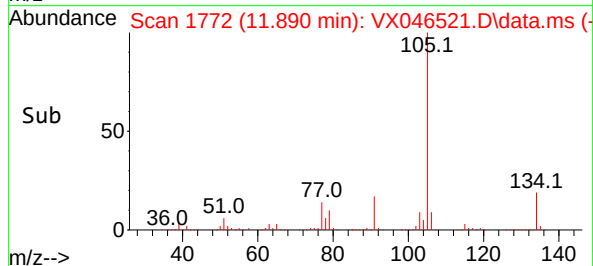
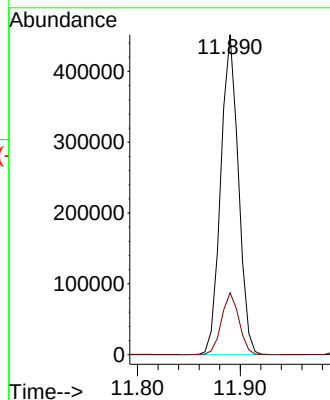
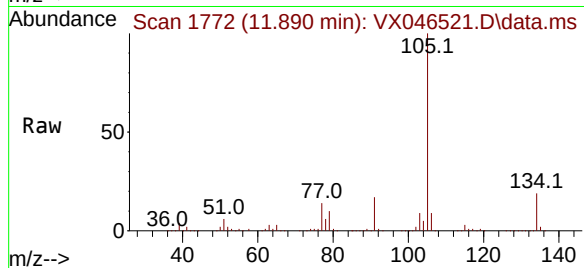
134 19.2 9.7 29.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#86

p-Isopropyltoluene

Concen: 95.124 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

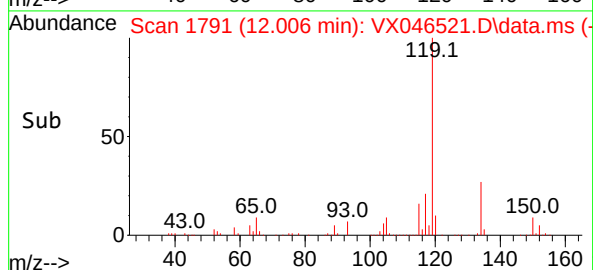
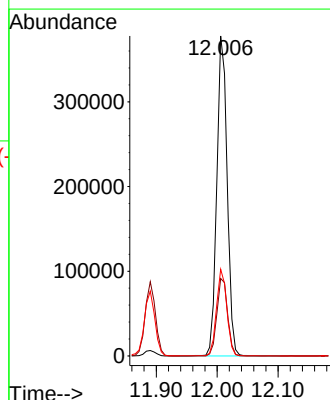
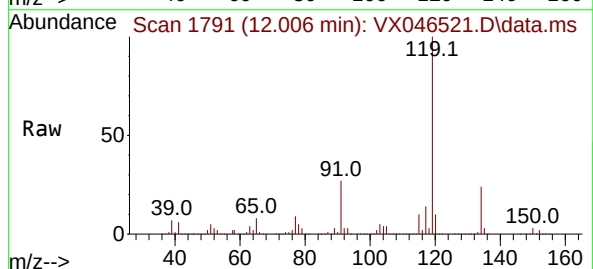
Tgt Ion:119 Resp: 445024

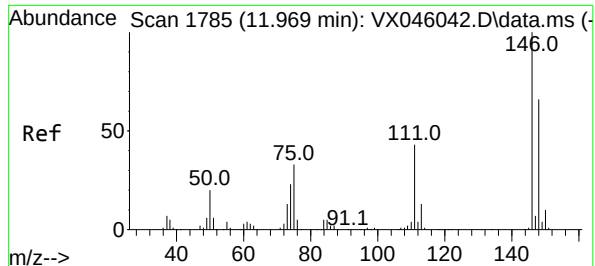
Ion Ratio Lower Upper

119 100

134 25.1 12.5 37.5

91 26.8 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 92.695 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 215104

Ion Ratio Lower Upper

146 100

111 44.3 22.1 66.3

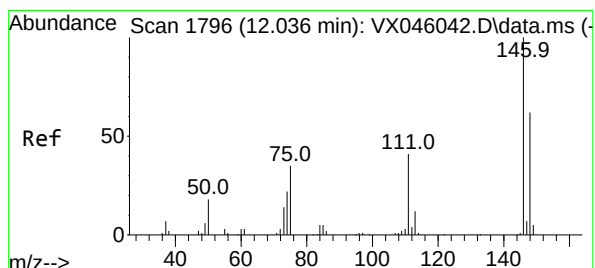
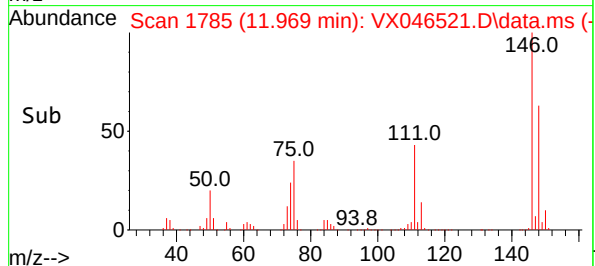
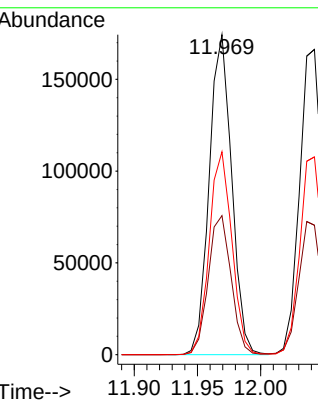
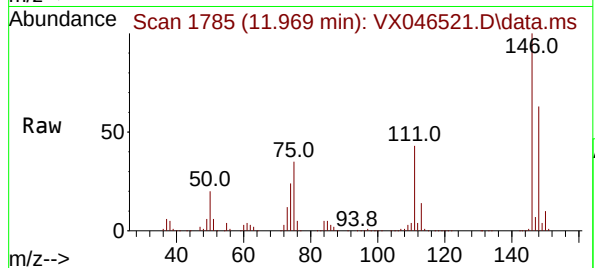
148 63.8 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 88.632 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

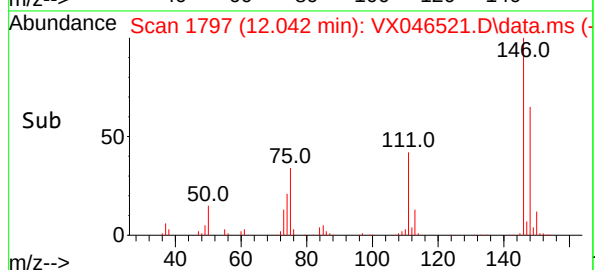
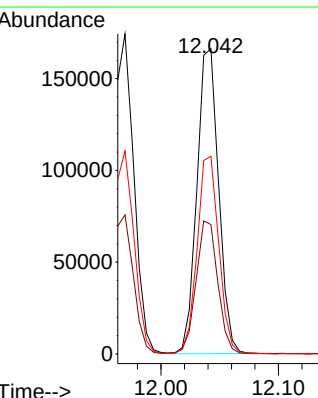
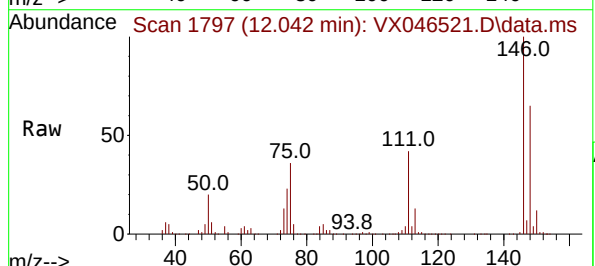
Tgt Ion:146 Resp: 213122

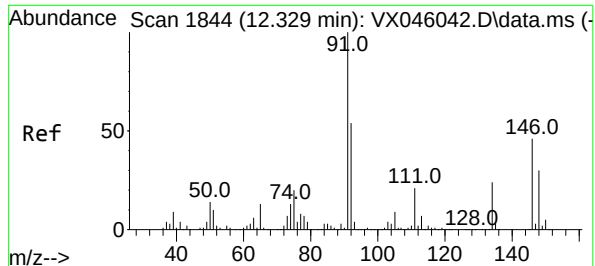
Ion Ratio Lower Upper

146 100

111 43.6 21.3 63.9

148 64.5 31.9 95.5





#89

n-Butylbenzene

Concen: 94.378 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 43360

Ion Ratio Lower Upper

91 100

92 54.2 26.9 80.7

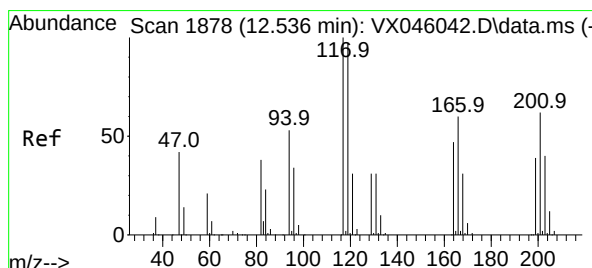
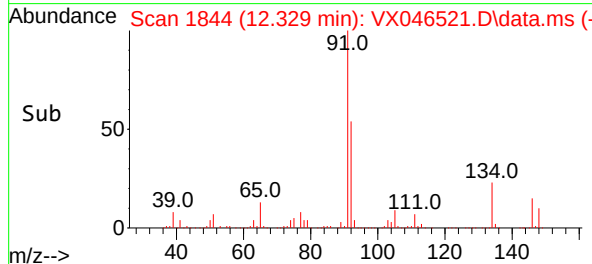
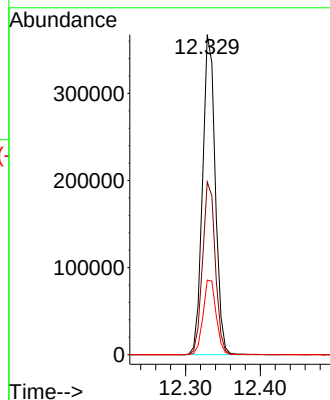
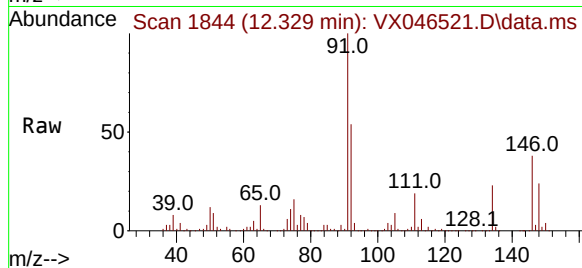
134 24.1 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 99.681 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046521.D

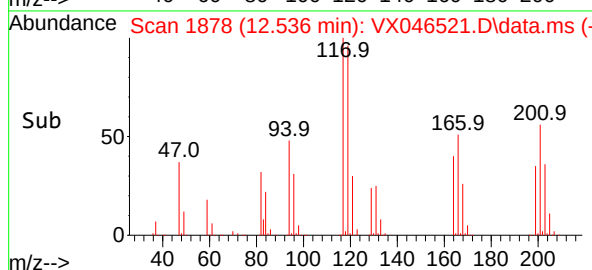
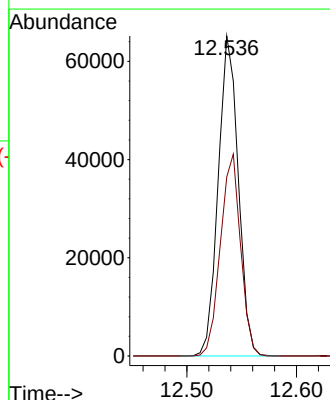
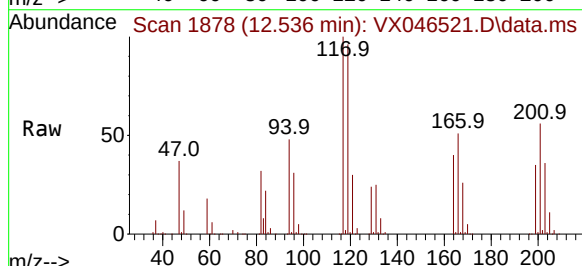
Acq: 06 Jun 2025 11:02

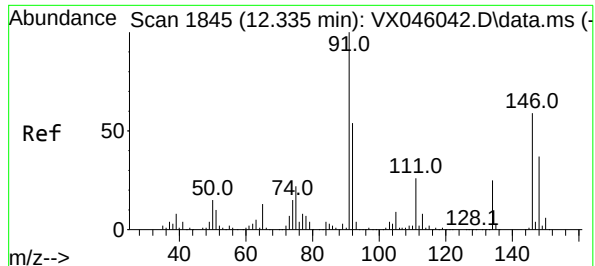
Tgt Ion:117 Resp: 82886

Ion Ratio Lower Upper

117 100

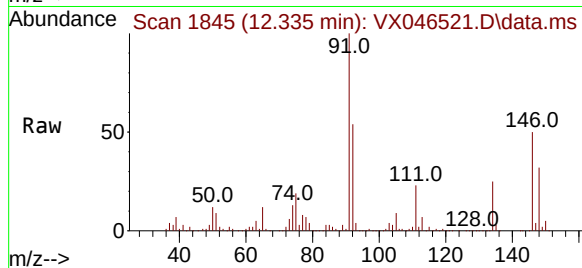
201 63.4 31.6 94.7





#91
1,2-Dichlorobenzene
Concen: 93.273 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

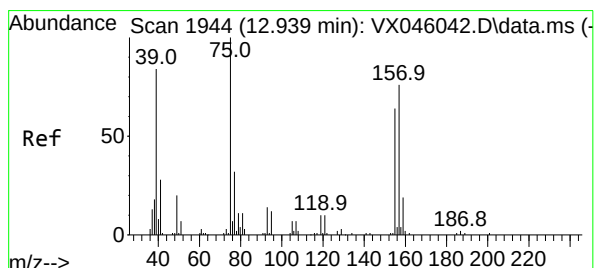
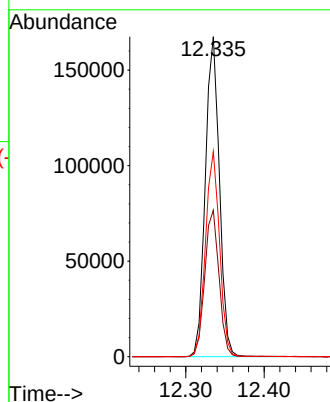
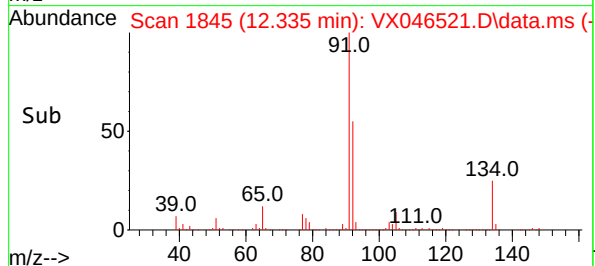
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:146 Resp: 20893
Ion Ratio Lower Upper
146 100
111 46.3 22.4 67.3
148 63.9 31.6 94.8

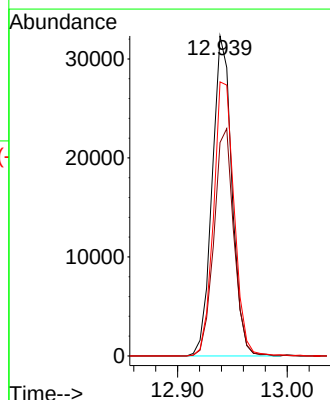
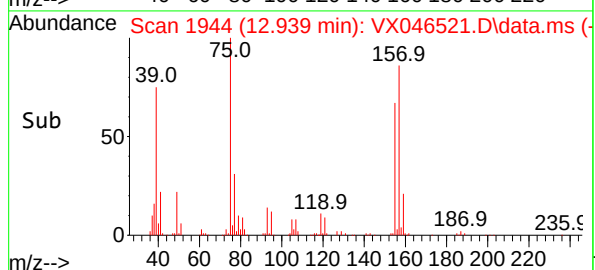
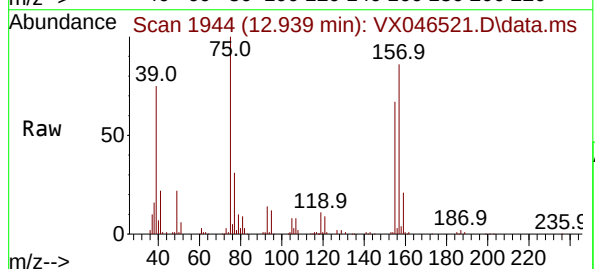
Manual Integrations
APPROVED

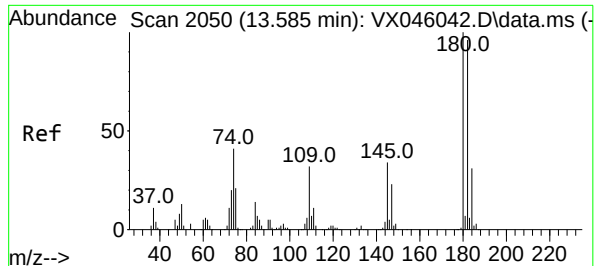
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 109.744 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 75 Resp: 40499
Ion Ratio Lower Upper
75 100
155 71.8 34.9 104.8
157 89.4 43.8 131.4





#93

1,2,4-Trichlorobenzene

Concen: 93.683 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:180 Resp: 143150

Ion Ratio Lower Upper

180 100

182 95.6 47.9 143.8

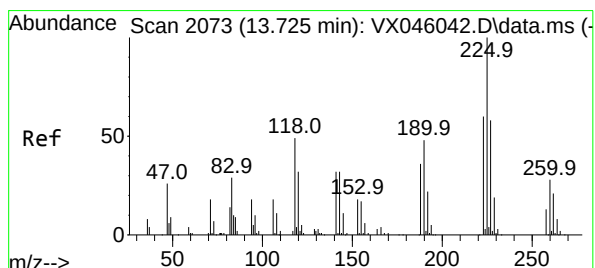
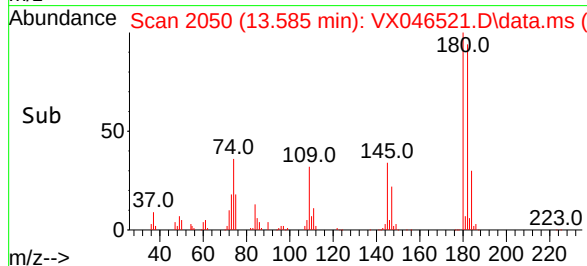
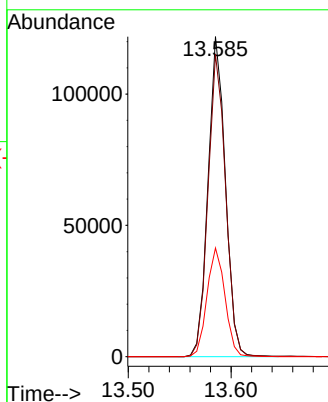
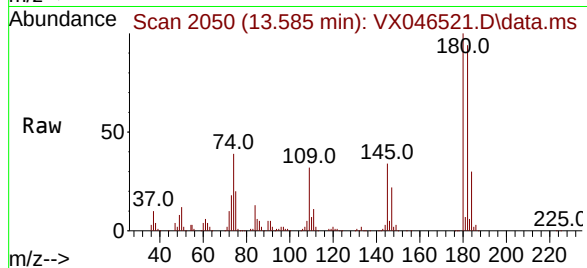
145 35.1 17.1 51.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#94

Hexachlorobutadiene

Concen: 91.723 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

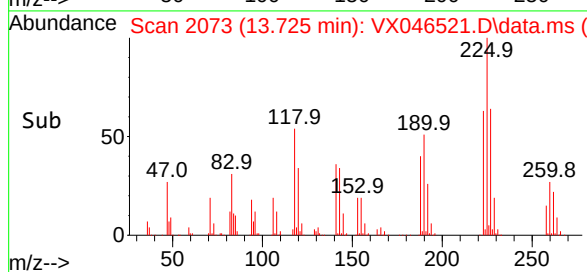
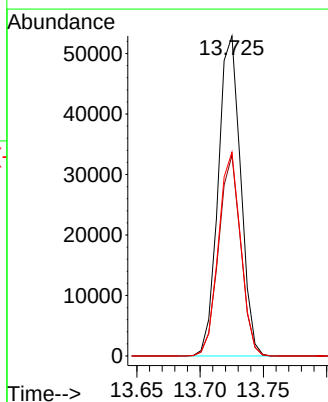
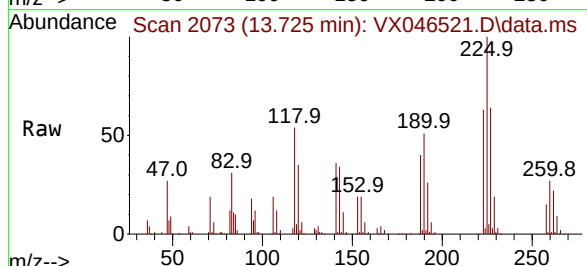
Tgt Ion:225 Resp: 65134

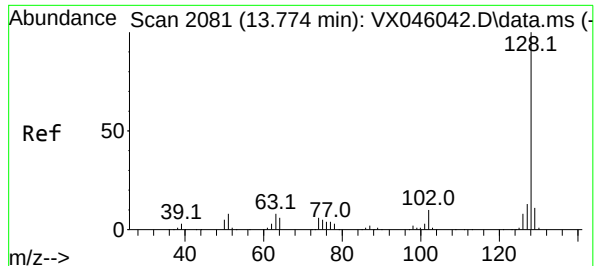
Ion Ratio Lower Upper

225 100

223 61.4 30.8 92.4

227 63.2 30.9 92.7





#95

Naphthalene

Concen: 103.144 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:128 Resp: 499809

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

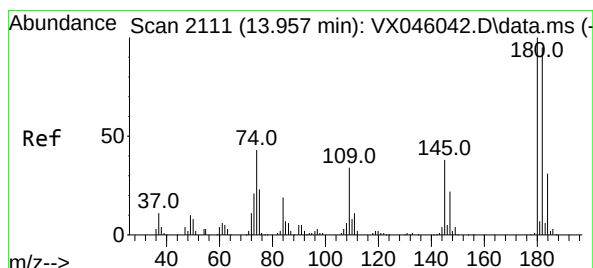
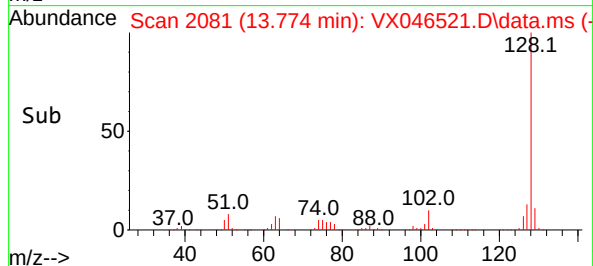
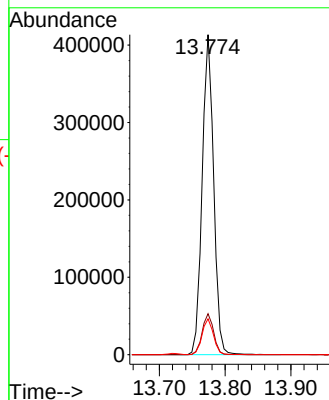
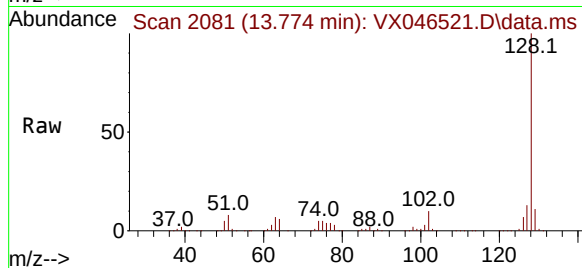
129 11.1 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#96

1,2,3-Trichlorobenzene

Concen: 94.716 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

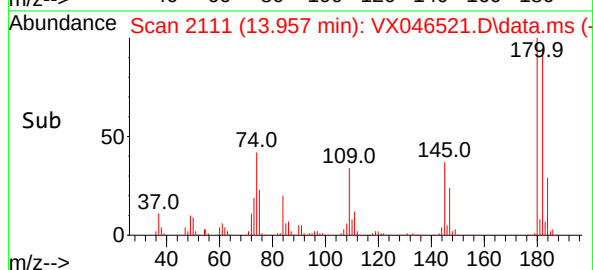
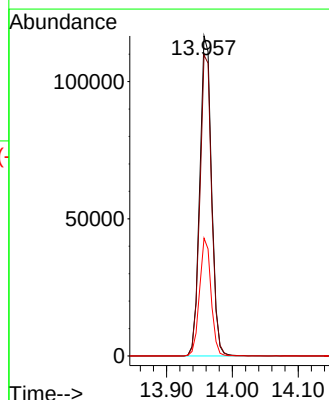
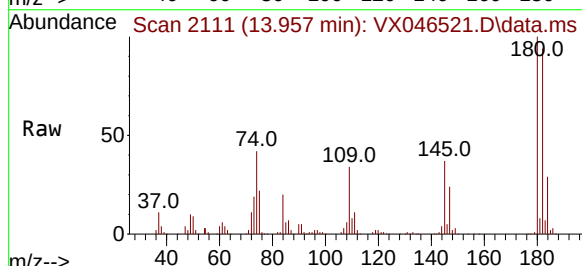
Tgt Ion:180 Resp: 145123

Ion Ratio Lower Upper

180 100

182 94.3 47.8 143.3

145 36.0 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046522.D
 Acq On : 06 Jun 2025 11:25
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Jun 06 16:42:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

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

Internal Standards						
1) Pentafluorobenzene	5.568	168	78828	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	138158	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	121245	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	58605	50.000	ug/l	# 0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.971	65	212938	151.835	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 303.660%#	
35) Dibromofluoromethane	5.404	113	156990	154.516	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 309.040%#	
50) Toluene-d8	8.653	98	505724	150.978	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 301.960%#	
62) 4-Bromofluorobenzene	11.079	95	207701	149.867	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 299.740%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.179	85	154709	141.368	ug/l	97
3) Chloromethane	1.307	50	145250	145.815	ug/l	98
4) Vinyl Chloride	1.386	62	147097	148.135	ug/l	98
5) Bromomethane	1.612	94	56077	93.023	ug/l	97
6) Chloroethane	1.691	64	88121	136.776	ug/l	98
7) Trichlorofluoromethane	1.898	101	244494	148.815	ug/l	98
8) Diethyl Ether	2.148	74	87079	150.009	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.343	101	151059	145.936	ug/l	98
10) Methyl Iodide	2.465	142	185045	164.913	ug/l	99
11) Tert butyl alcohol	2.983	59	134861	866.618	ug/l	100
12) 1,1-Dichloroethene	2.331	96	138358	147.838	ug/l	99
13) Acrolein	2.252	56	160165	778.853	ug/l	100
14) Allyl chloride	2.678	41	267359	145.460	ug/l	93
15) Acrylonitrile	3.081	53	476614	810.040	ug/l	99
16) Acetone	2.398	43	425579	763.161	ug/l	98
17) Carbon Disulfide	2.526	76	304498	152.815	ug/l	99
18) Methyl Acetate	2.721	43	292598	175.157	ug/l	98
19) Methyl tert-butyl Ether	3.130	73	533557	162.931	ug/l	99
20) Methylene Chloride	2.806	84	160400	142.563	ug/l	94
21) trans-1,2-Dichloroethene	3.111	96	140409	141.768	ug/l	98
22) Diisopropyl ether	3.782	45	574529	158.547	ug/l	# 84
23) Vinyl Acetate	3.739	43	2294131	820.000	ug/l	100
24) 1,1-Dichloroethane	3.629	63	306779	151.900	ug/l	99
25) 2-Butanone	4.574	43	643633	824.425	ug/l	99
26) 2,2-Dichloropropane	4.495	77	241718	161.222	ug/l	100
27) cis-1,2-Dichloroethene	4.507	96	181365	148.753	ug/l	98
28) Bromochloromethane	4.916	49	139177	144.483	ug/l	99
29) Tetrahydrofuran	5.019	42	404249	819.909	ug/l	99
30) Chloroform	5.111	83	319000	150.747	ug/l	96
31) Cyclohexane	5.489	56	240734	147.652	ug/l	98
32) 1,1,1-Trichloroethane	5.404	97	280921	155.193	ug/l	97
36) 1,1-Dichloropropene	5.708	75	201157	138.605	ug/l	99
37) Ethyl Acetate	4.733	43	247037	174.441	ug/l	100
38) Carbon Tetrachloride	5.696	117	240128	147.722	ug/l	100
39) Methylcyclohexane	7.391	83	243263	142.009	ug/l	96
40) Benzene	6.056	78	597704	146.294	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046522.D
 Acq On : 06 Jun 2025 11:25
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:42:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M

Quant Title : SW846 8260

QLast Update : Fri Jun 06 16:38:39 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.934	41	142496	162.001	ug/l	97
42) 1,2-Dichloroethane	6.105	62	249510	146.794	ug/l	98
43) Isopropyl Acetate	6.355	43	415327	168.193	ug/l	99
44) Trichloroethene	7.135	130	146894	141.503	ug/l	98
45) 1,2-Dichloropropane	7.440	63	161815	153.441	ug/l	96
46) Dibromomethane	7.586	93	118718	149.642	ug/l	98
47) Bromodichloromethane	7.830	83	256187	157.050	ug/l	99
48) Methyl methacrylate	7.702	41	214089	168.505	ug/l	97
49) 1,4-Dioxane	7.671	88	57504	3384.526	ug/l	97
51) 4-Methyl-2-Pentanone	8.580	43	1262813	804.759	ug/l	99
52) Toluene	8.720	92	368137	146.666	ug/l	99
53) t-1,3-Dichloropropene	8.982	75	249298	170.450	ug/l	99
54) cis-1,3-Dichloropropene	8.373	75	262248	161.266	ug/l	93
55) 1,1,2-Trichloroethane	9.153	97	154220	153.049	ug/l	98
56) Ethyl methacrylate	9.122	69	261827	168.851	ug/l	97
57) 1,3-Dichloropropane	9.311	76	263879	148.186	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.251	63	676448	800.891	ug/l	100
59) 2-Hexanone	9.433	43	908142	806.953	ug/l	98
60) Dibromochloromethane	9.525	129	185185	156.239	ug/l	99
61) 1,2-Dibromoethane	9.610	107	156873	149.399	ug/l	97
64) Tetrachloroethene	9.275	164	114275	140.948	ug/l	96
65) Chlorobenzene	10.080	112	414361	145.311	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.165	131	152702	158.472	ug/l	99
67) Ethyl Benzene	10.195	91	742300	149.114	ug/l	100
68) m/p-Xylenes	10.305	106	537140	297.452	ug/l	99
69) o-Xylene	10.640	106	263508	150.865	ug/l	99
70) Styrene	10.653	104	457350	152.965	ug/l	99
71) Bromoform	10.799	173	121843	165.836	ug/l #	97
73) Isopropylbenzene	10.964	105	714594	155.114	ug/l	100
74) N-amyl acetate	10.842	43	354967	174.965	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	229605	155.706	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	191913m	152.081	ug/l	
77) Bromobenzene	11.195	156	163113	152.540	ug/l	99
78) n-propylbenzene	11.305	91	846247	151.764	ug/l	99
79) 2-Chlorotoluene	11.366	91	503830	149.837	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	582683	151.781	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	77638	180.416	ug/l	91
82) 4-Chlorotoluene	11.451	91	585232	146.836	ug/l	98
83) tert-Butylbenzene	11.713	119	612111	156.630	ug/l	96
84) 1,2,4-Trimethylbenzene	11.750	105	590035	151.929	ug/l	100
85) sec-Butylbenzene	11.890	105	761909	151.730	ug/l	100
86) p-Isopropyltoluene	12.006	119	628539	150.146	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	305990	147.362	ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	308002	143.149	ug/l	99
89) n-Butylbenzene	12.329	91	613010	149.115	ug/l	99
90) Hexachloroethane	12.536	117	120040	161.336	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	298047	148.701	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	59166	179.177	ug/l	97
93) 1,2,4-Trichlorobenzene	13.585	180	209982	153.577	ug/l	99
94) Hexachlorobutadiene	13.725	225	92311	145.277	ug/l	98
95) Naphthalene	13.774	128	739300	170.506	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	210596	153.606	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046522.D
Acq On : 06 Jun 2025 11:25
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:42:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:38:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

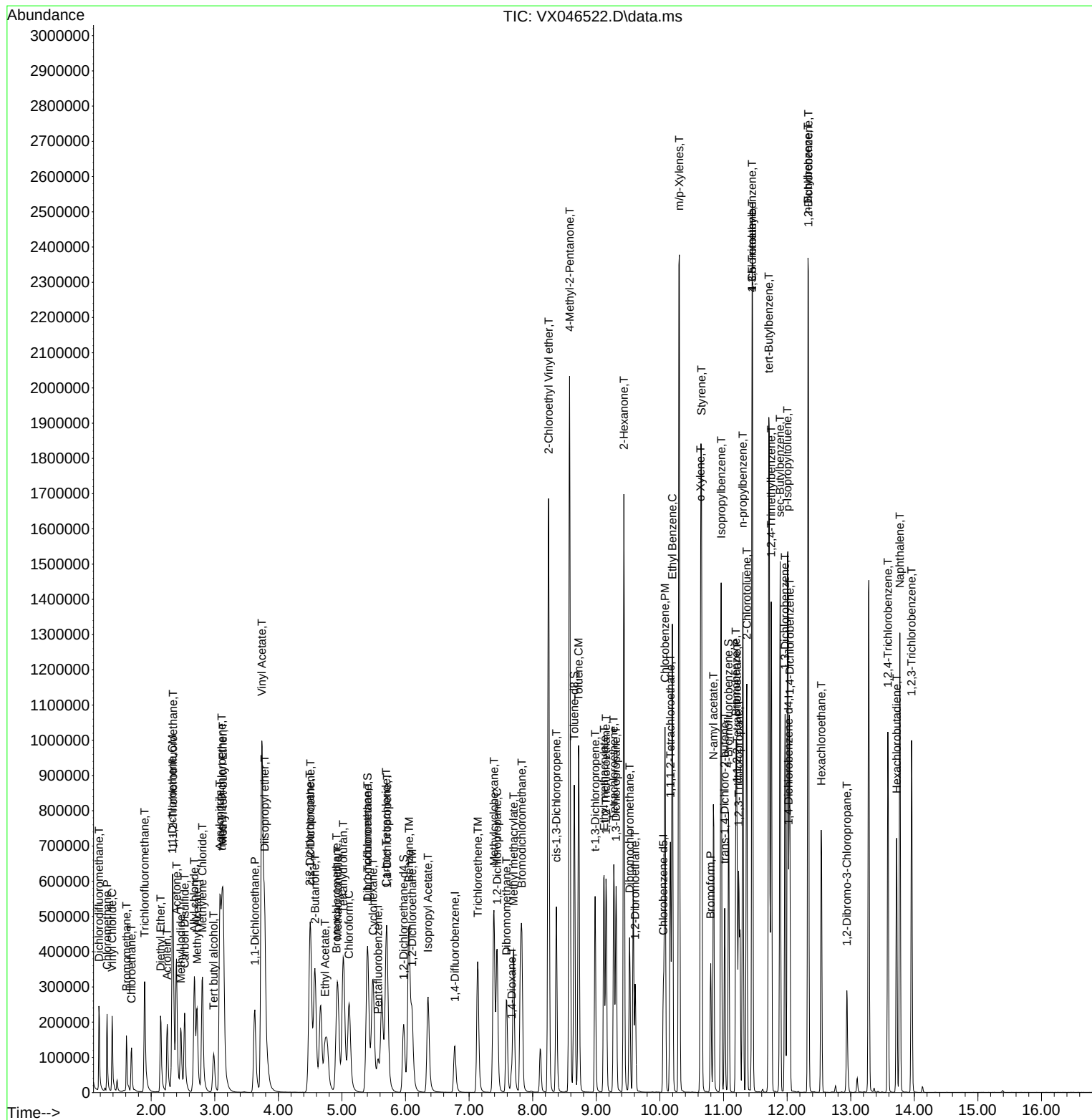
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 Data File : VX046522.D
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 Operator : JC/MD
 Sample : VSTDIC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

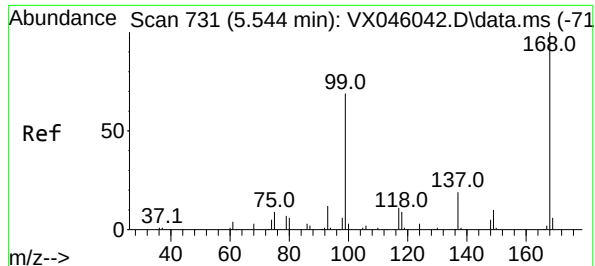
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC150

Manual Integrations APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:42:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration





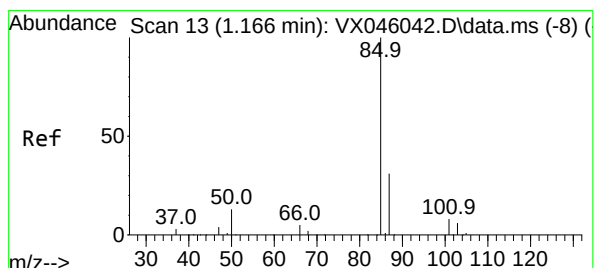
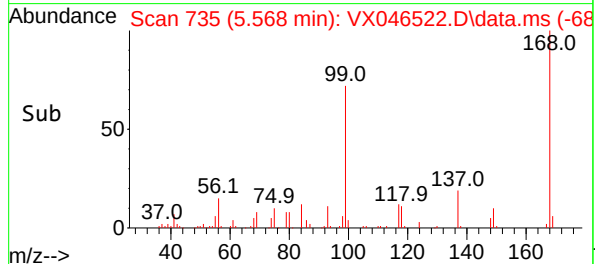
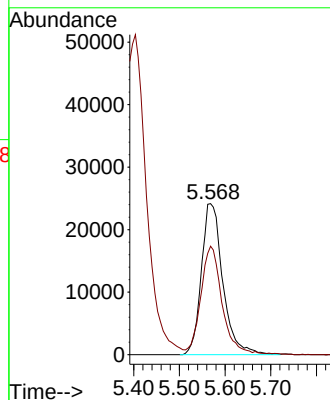
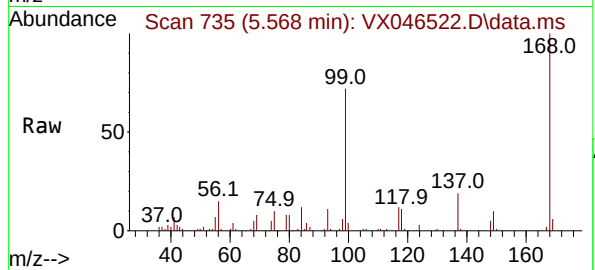
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 78828
Ion Ratio Lower Upper
168 100
99 71.2 54.9 82.3

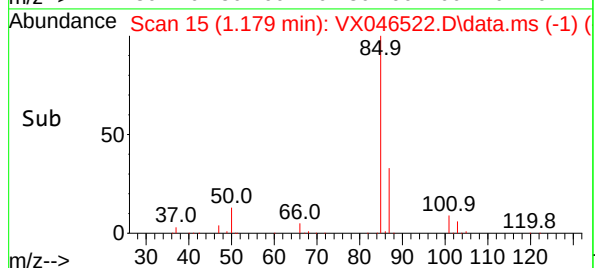
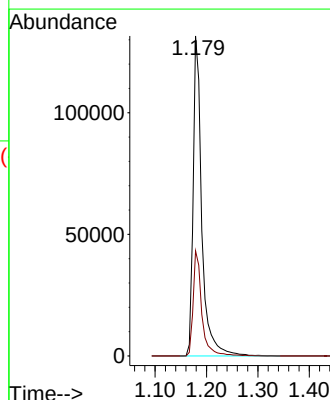
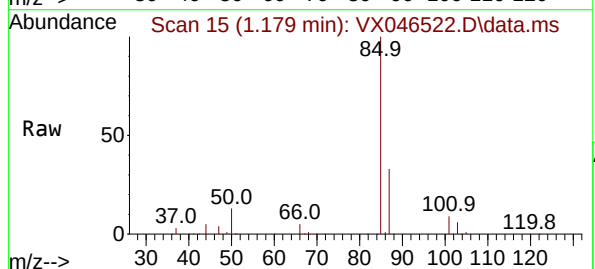
Manual Integrations
APPROVED

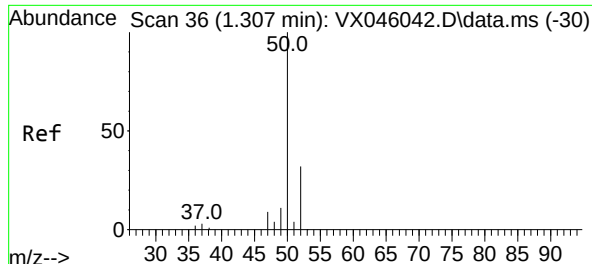
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 141.368 ug/l
RT: 1.179 min Scan# 15
Delta R.T. -0.006 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 85 Resp: 154709
Ion Ratio Lower Upper
85 100
87 32.9 15.7 47.1





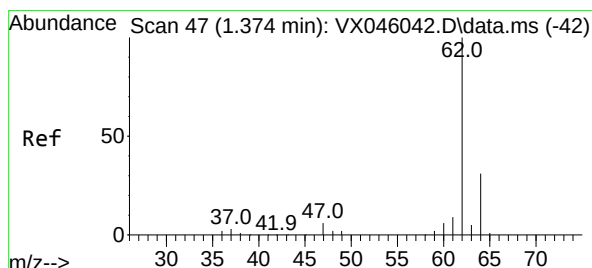
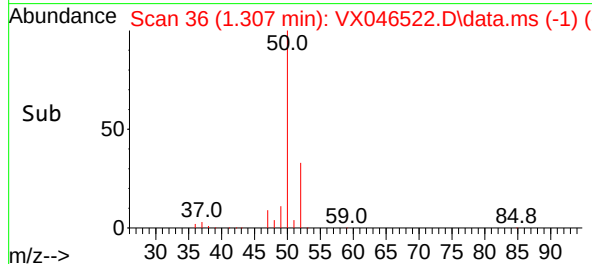
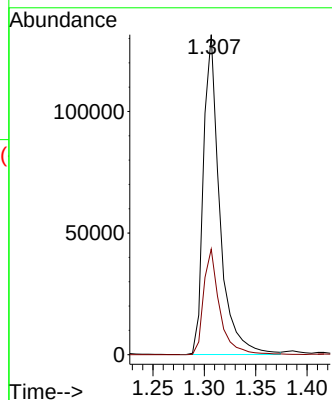
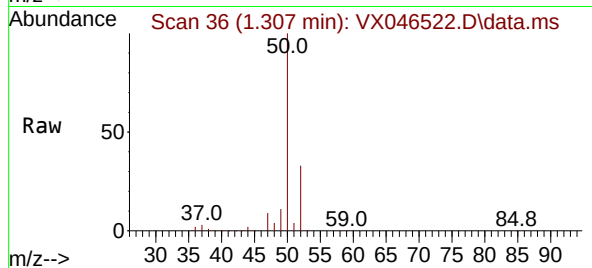
#3
Chloromethane
Concen: 145.815 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 145250
Ion Ratio Lower Upper
50 100
52 33.0 25.4 38.2

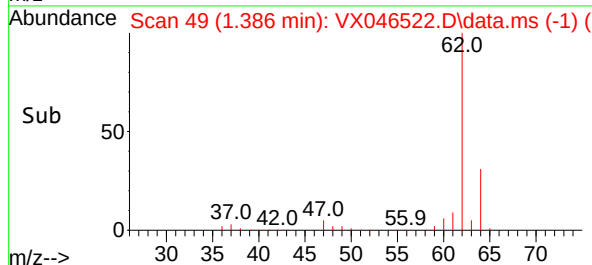
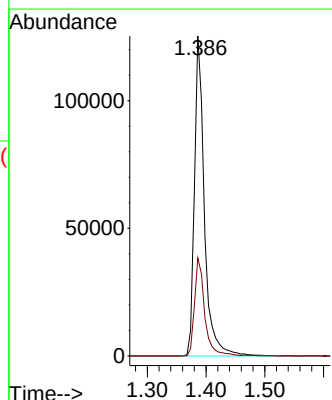
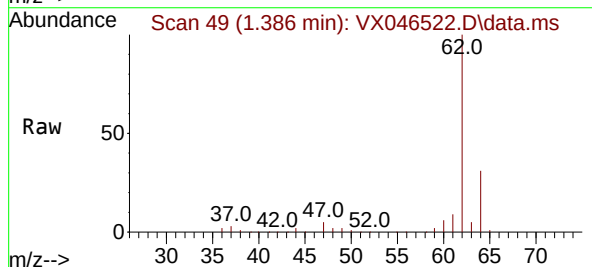
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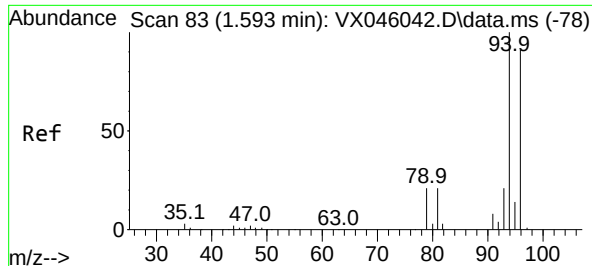
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 148.135 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 62 Resp: 147097
Ion Ratio Lower Upper
62 100
64 30.6 25.2 37.8





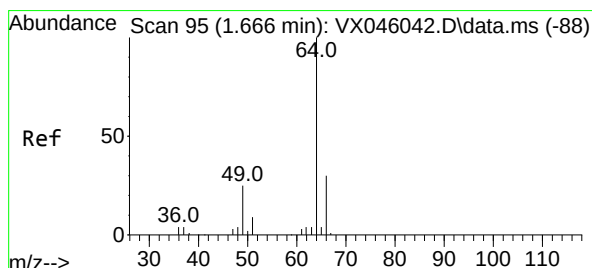
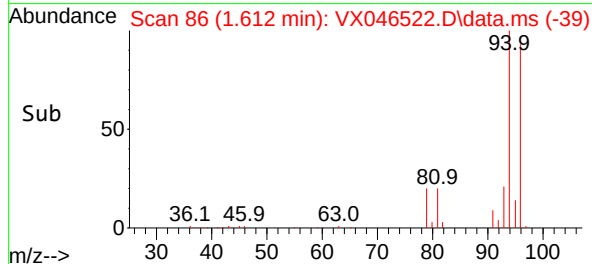
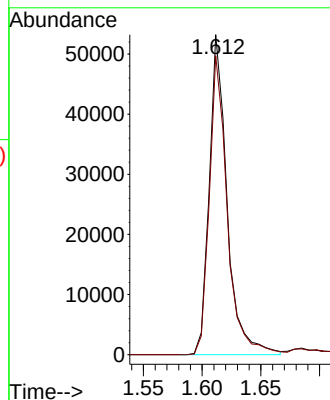
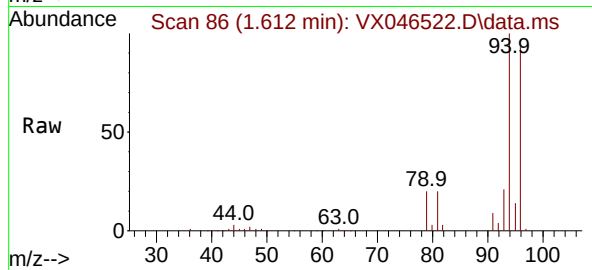
#5
Bromomethane
Concen: 93.023 ug/l
RT: 1.612 min Scan# 80
Delta R.T. -0.012 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 5607
Ion Ratio Lower Upper
94 100
96 93.5 72.8 109.2

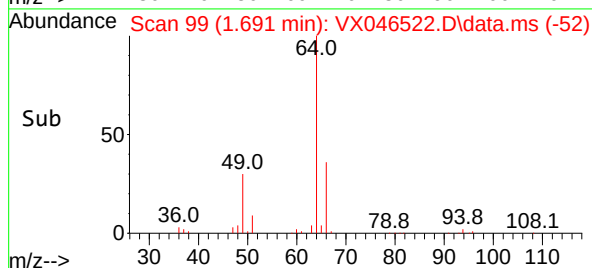
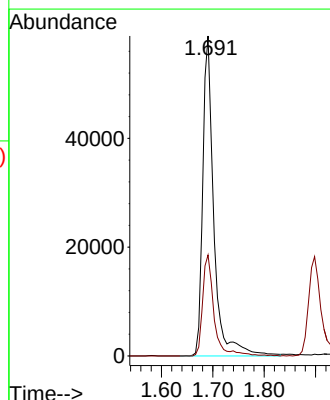
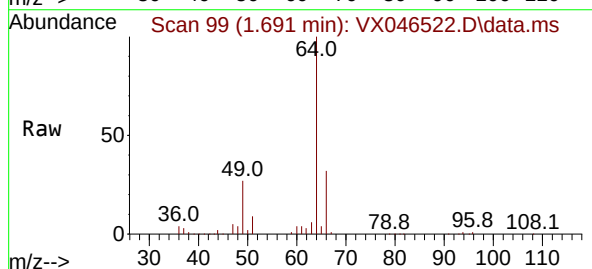
Manual Integrations
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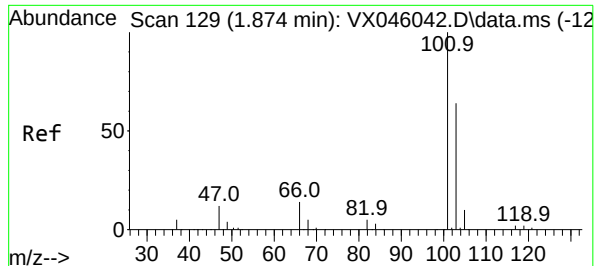
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#6
Chloroethane
Concen: 136.776 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.012 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 64 Resp: 88121
Ion Ratio Lower Upper
64 100
66 31.6 24.3 36.5





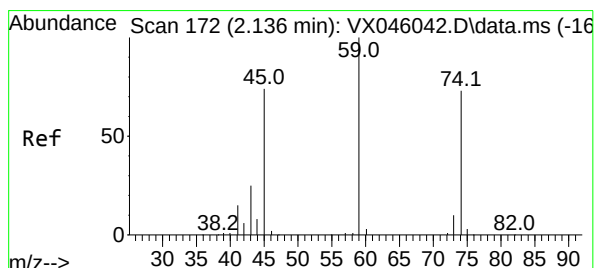
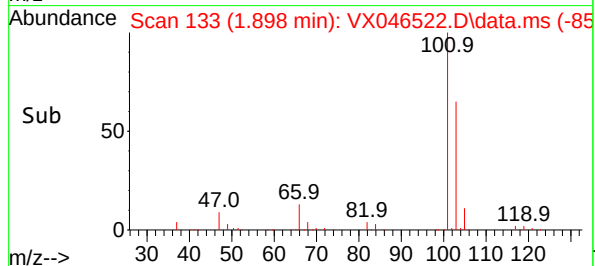
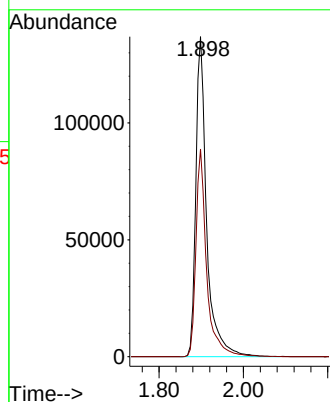
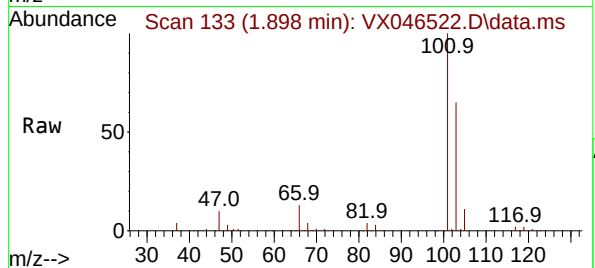
#7
Trichlorofluoromethane
Concen: 148.815 ug/l
RT: 1.898 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion:101 Resp: 244494
Ion Ratio Lower Upper
101 100
103 64.9 51.0 76.4

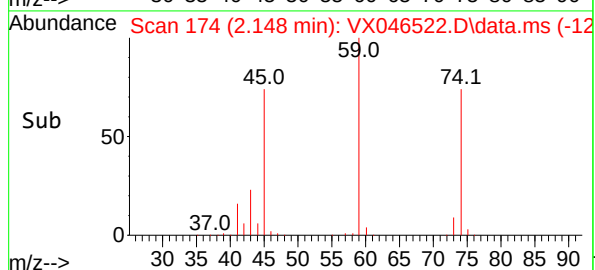
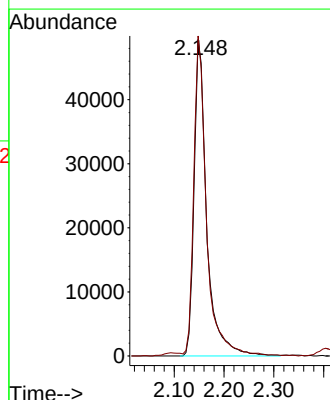
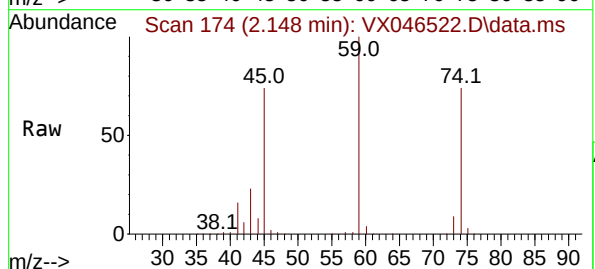
Manual Integrations
APPROVED

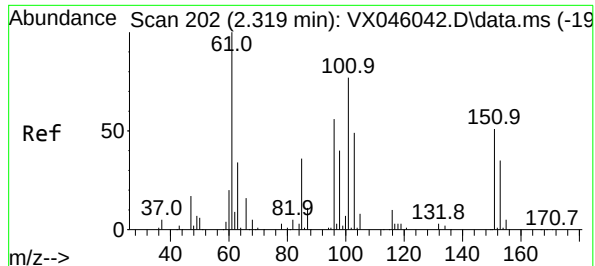
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#8
Diethyl Ether
Concen: 150.009 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.006 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 74 Resp: 87079
Ion Ratio Lower Upper
74 100
45 100.2 54.9 164.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 145.936 ug/l

RT: 2.343 min Scan# 206

Delta R.T. -0.006 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:101 Resp: 151059

Ion Ratio Lower Upper

101 100

85 46.9 38.6 58.0

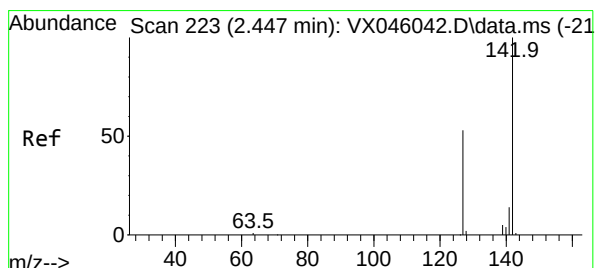
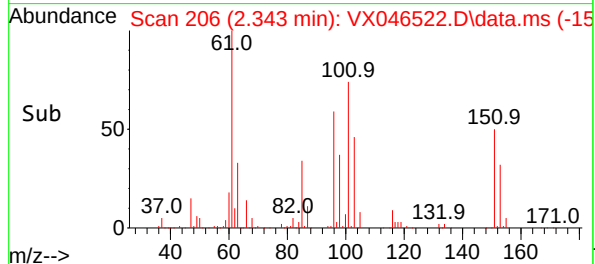
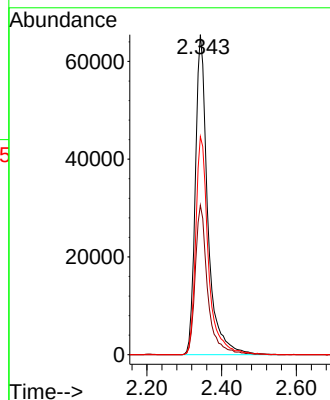
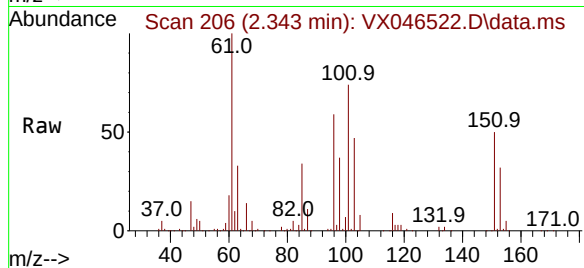
151 69.9 55.2 82.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#10

Methyl Iodide

Concen: 164.913 ug/l

RT: 2.465 min Scan# 226

Delta R.T. -0.006 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

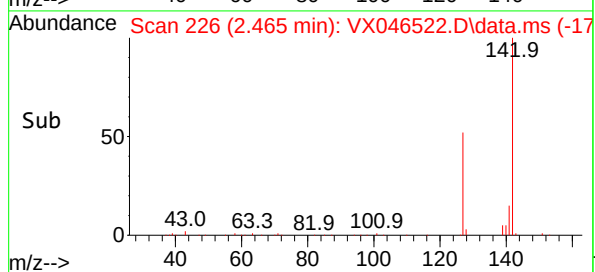
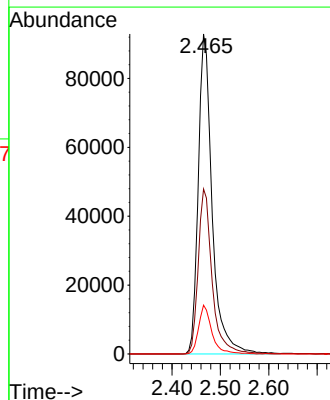
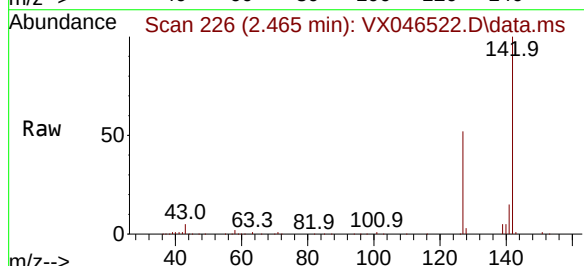
Tgt Ion:142 Resp: 185045

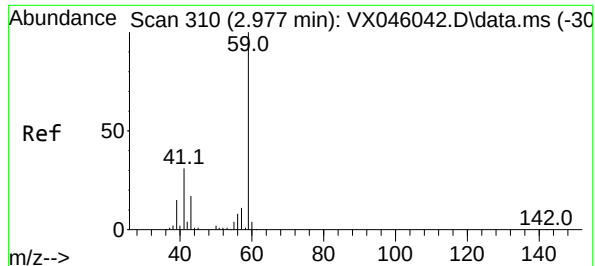
Ion Ratio Lower Upper

142 100

127 51.6 41.7 62.5

141 14.5 11.5 17.3





#11

Tert butyl alcohol

Concen: 866.618 ug/l

RT: 2.983 min Scan# 310

Delta R.T. 0.012 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 59 Resp: 13486

Ion Ratio Lower Upper

59 100

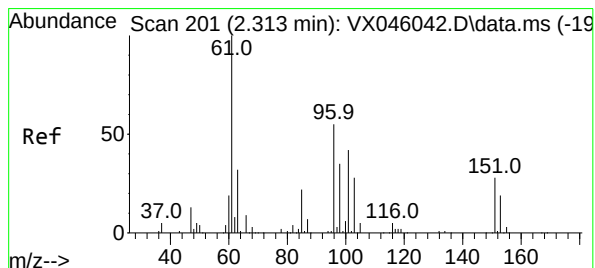
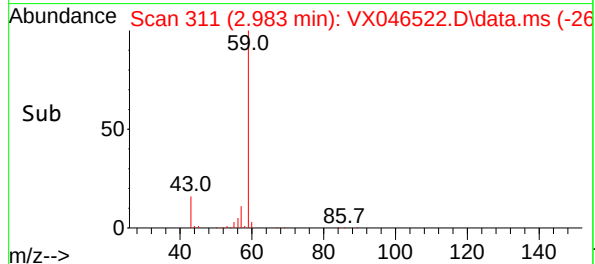
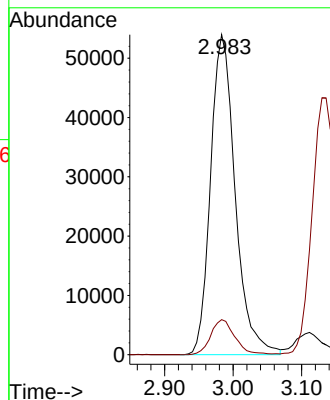
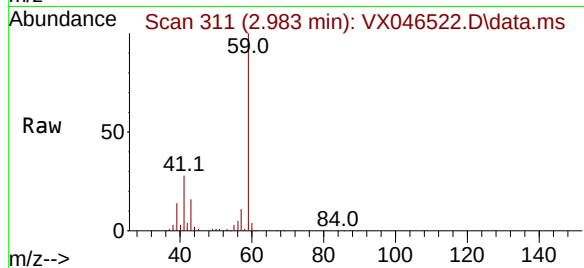
57 10.7 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#12

1,1-Dichloroethene

Concen: 147.838 ug/l

RT: 2.331 min Scan# 204

Delta R.T. -0.006 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

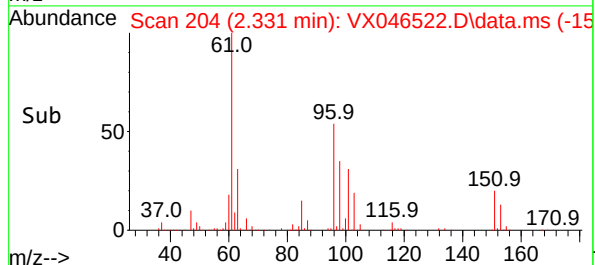
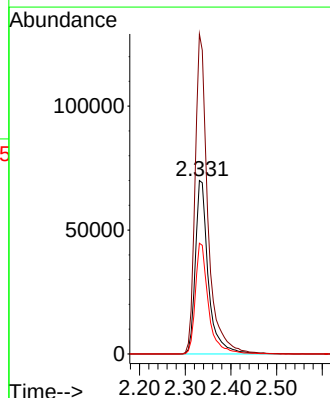
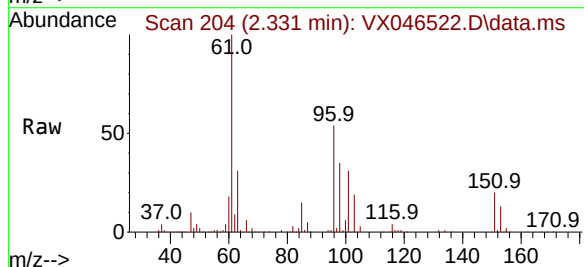
Tgt Ion: 96 Resp: 138358

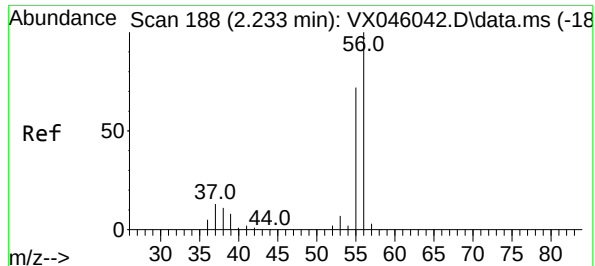
Ion Ratio Lower Upper

96 100

61 184.5 146.2 219.2

98 63.9 51.0 76.6





#13

Acrolein

Concen: 778.853 ug/l

RT: 2.252 min Scan# 188

Delta R.T. 0.001 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 16016

Ion Ratio Lower Upper

56 100

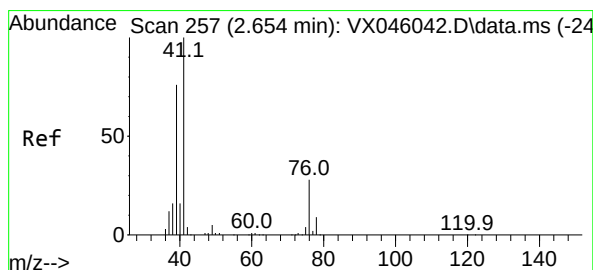
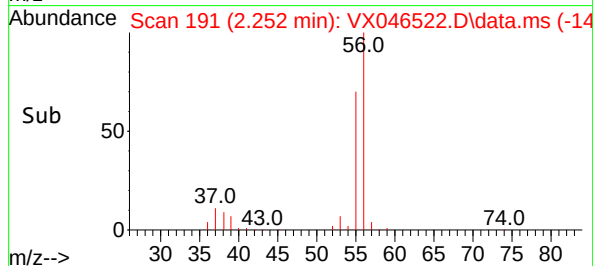
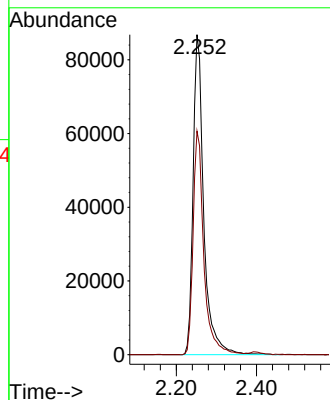
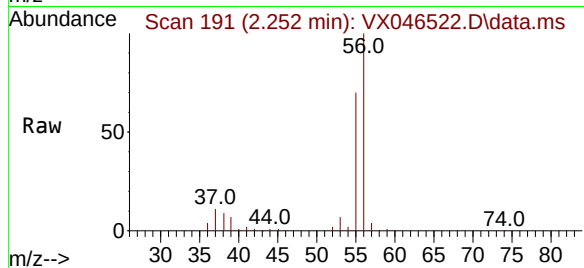
55 70.3 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 145.460 ug/l

RT: 2.678 min Scan# 261

Delta R.T. -0.006 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

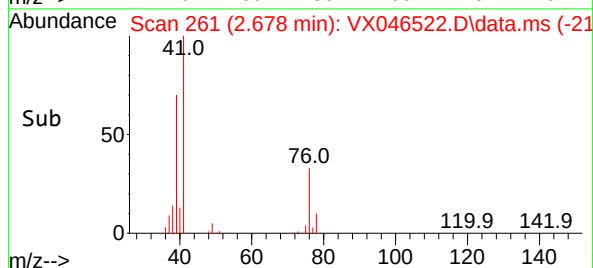
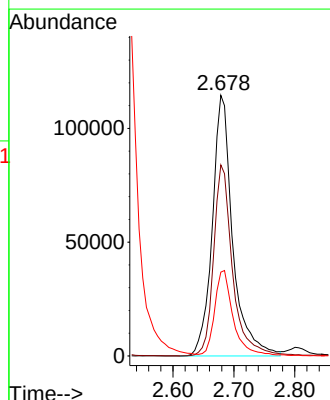
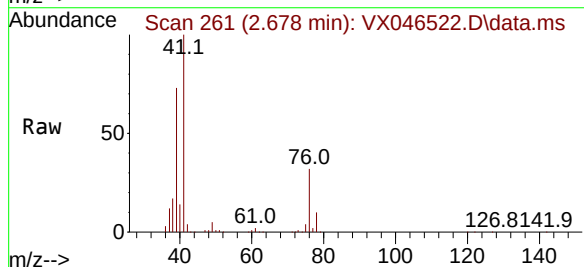
Tgt Ion: 41 Resp: 267359

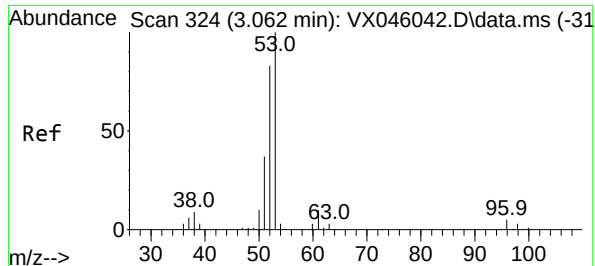
Ion Ratio Lower Upper

41 100

39 68.4 60.6 90.8

76 29.9 24.9 37.3





#15

Acrylonitrile

Concen: 810.040 ug/l

RT: 3.081 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

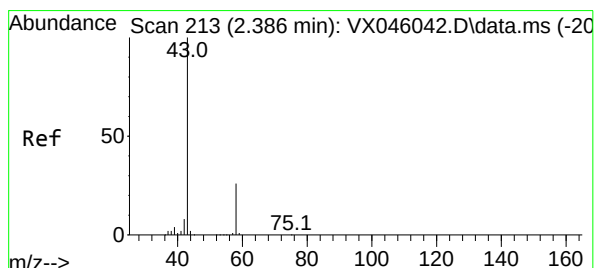
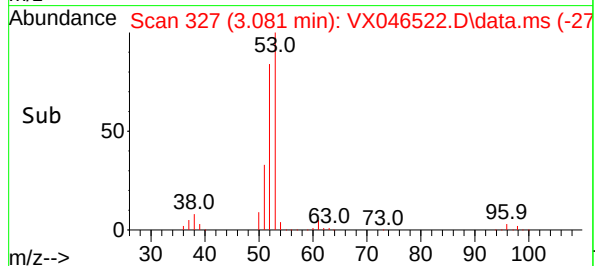
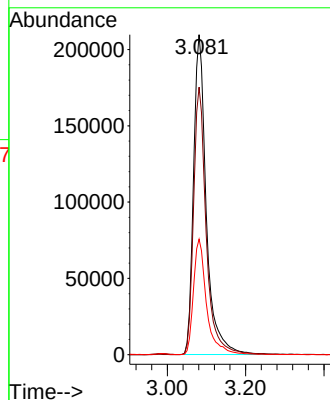
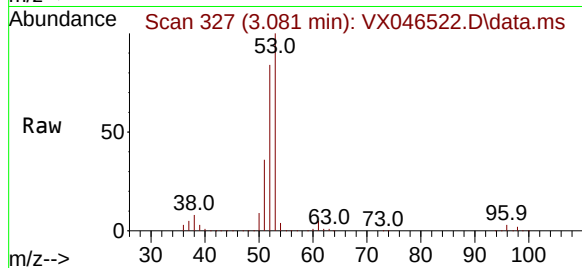
Tgt Ion: 53 Resp: 476614

Ion	Ratio	Lower	Upper
53	100		
52	83.0	65.3	97.9
51	37.0	29.8	44.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#16

Acetone

Concen: 763.161 ug/l

RT: 2.398 min Scan# 215

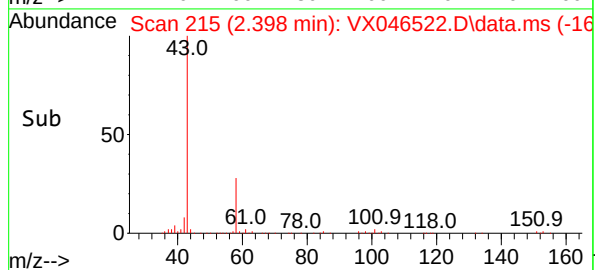
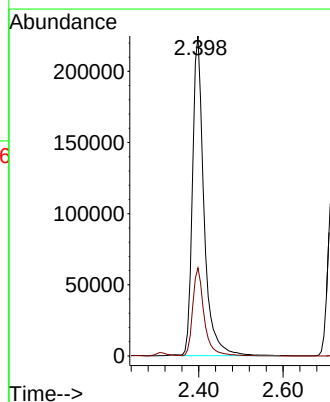
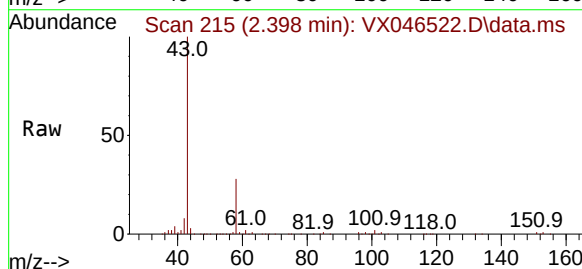
Delta R.T. 0.006 min

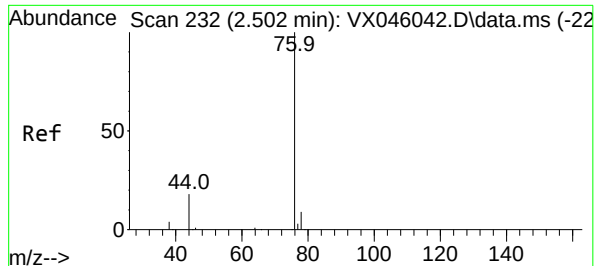
Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Tgt Ion: 43 Resp: 425579

Ion	Ratio	Lower	Upper
43	100		
58	27.5	21.2	31.8





#17

Carbon Disulfide

Concen: 152.815 ug/l

RT: 2.526 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 76 Resp: 304498

Ion Ratio Lower Upper

76 100

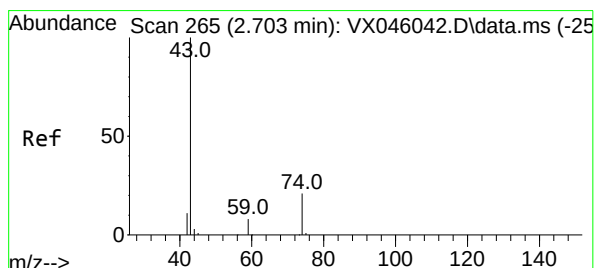
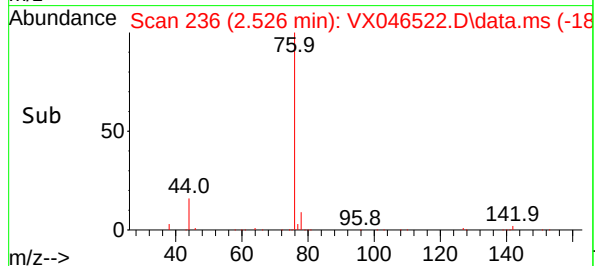
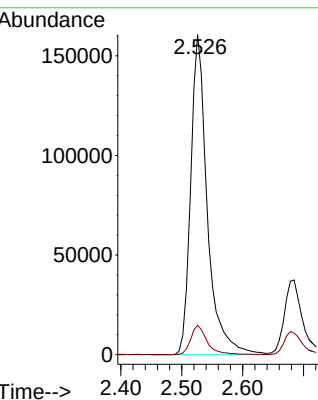
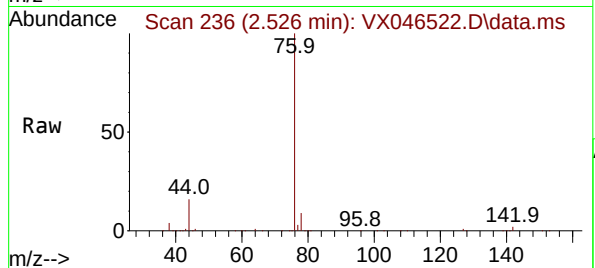
78 9.2 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#18

Methyl Acetate

Concen: 175.157 ug/l

RT: 2.721 min Scan# 268

Delta R.T. 0.000 min

Lab File: VX046522.D

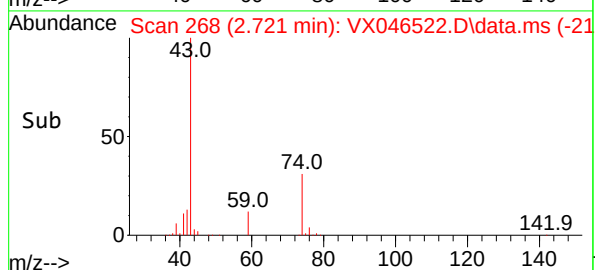
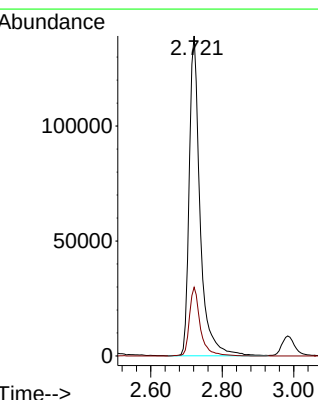
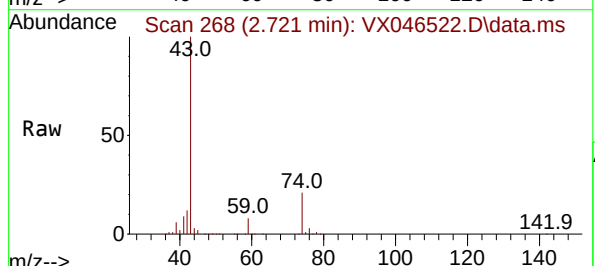
Acq: 06 Jun 2025 11:25

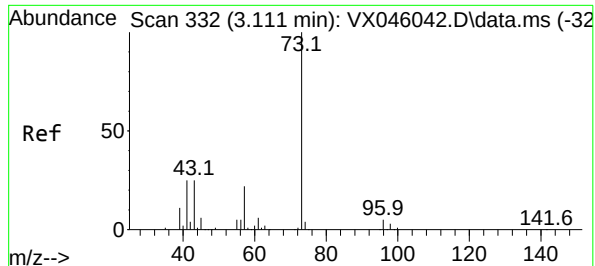
Tgt Ion: 43 Resp: 292598

Ion Ratio Lower Upper

43 100

74 21.6 16.7 25.1





#19

Methyl tert-butyl Ether

Concen: 162.931 ug/l

RT: 3.130 min Scan# 31

Delta R.T. -0.005 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 73 Resp: 53355

Ion Ratio Lower Upper

73 100

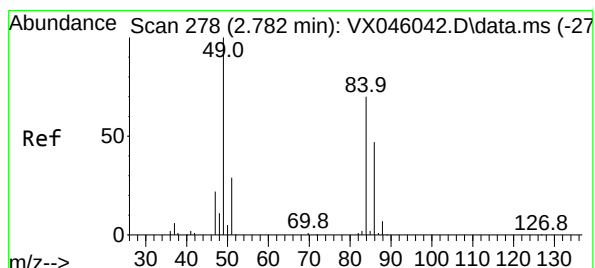
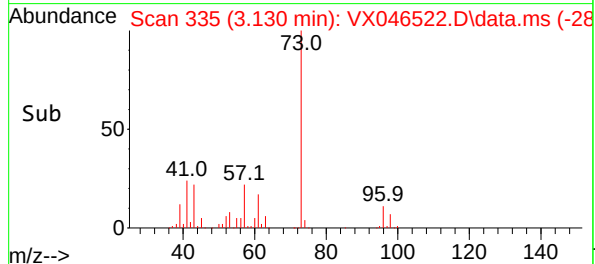
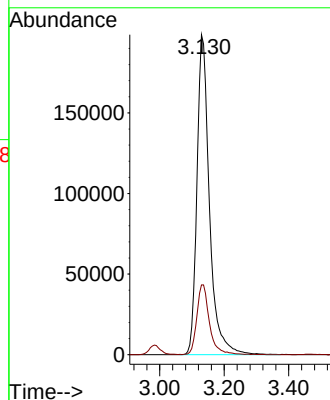
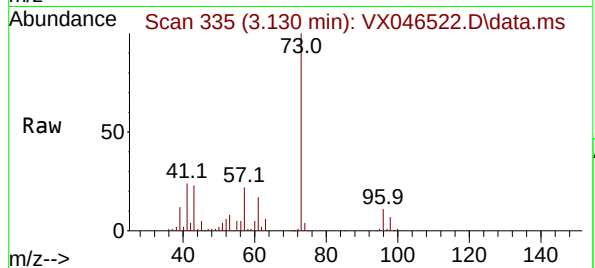
57 21.8 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#20

Methylene Chloride

Concen: 142.563 ug/l

RT: 2.806 min Scan# 282

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Tgt Ion: 84 Resp: 160400

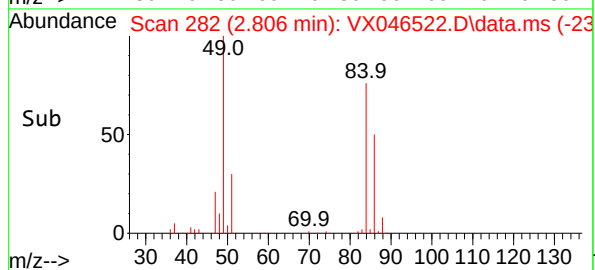
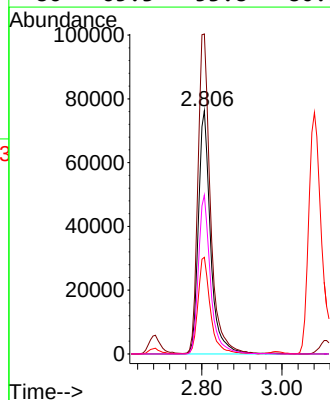
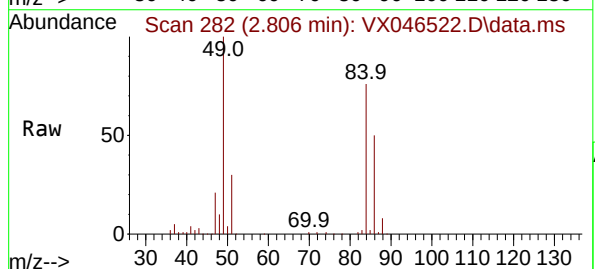
Ion Ratio Lower Upper

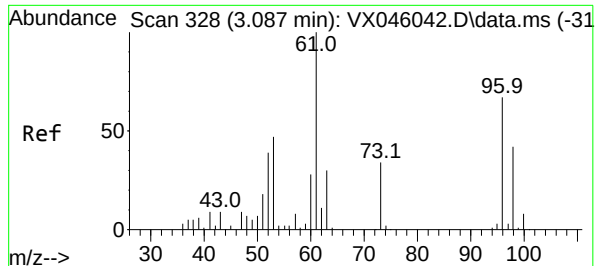
84 100

49 131.3 113.9 170.9

51 39.6 33.5 50.3

86 65.3 53.8 80.8





#21

trans-1,2-Dichloroethene

Concen: 141.768 ug/l

RT: 3.111 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 140409

Ion Ratio Lower Upper

96 100

61 152.0 119.5 179.3

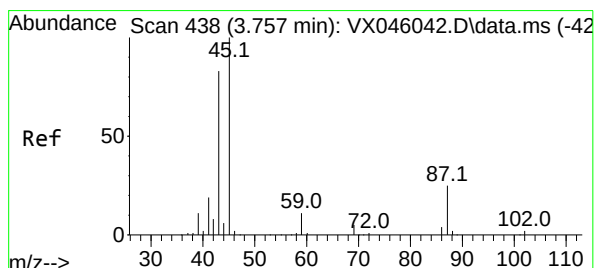
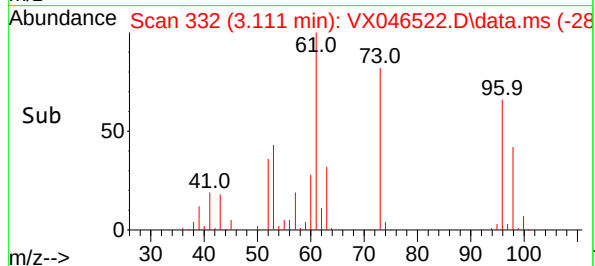
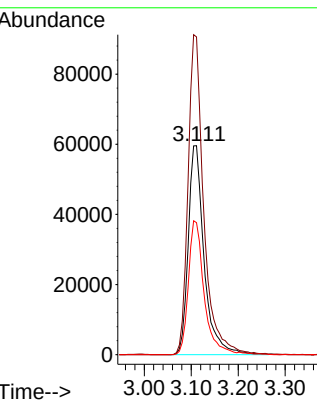
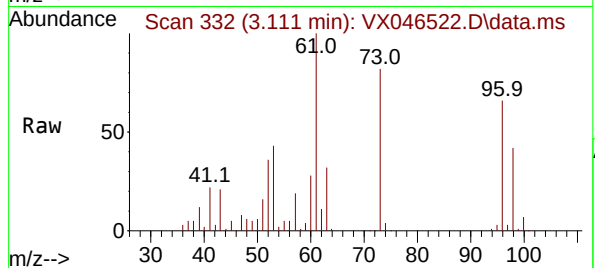
98 63.2 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#22

Diisopropyl ether

Concen: 158.547 ug/l

RT: 3.782 min Scan# 442

Delta R.T. -0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Tgt Ion: 45 Resp: 574529

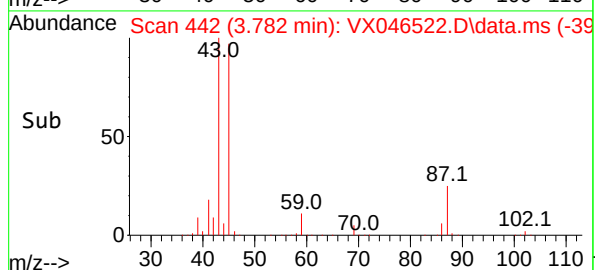
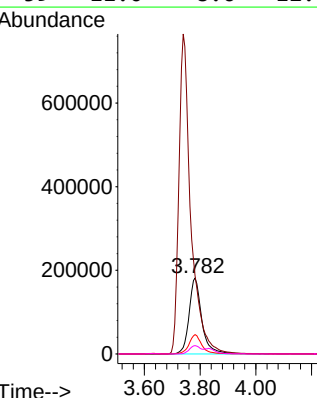
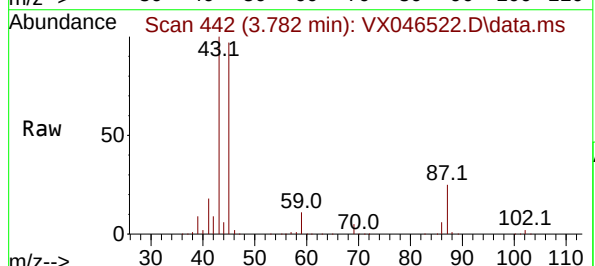
Ion Ratio Lower Upper

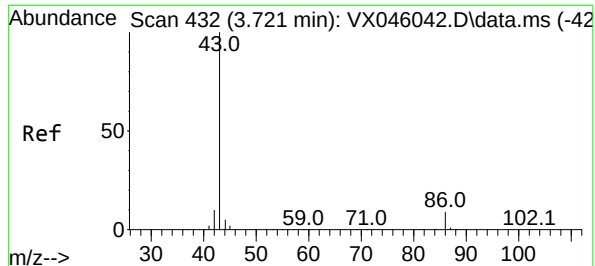
45 100

43 102.8 66.6 100.0#

87 25.4 19.8 29.6

59 11.0 8.6 12.8





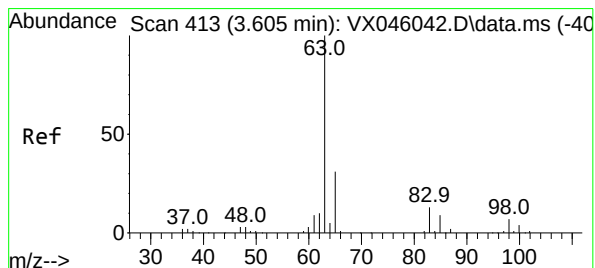
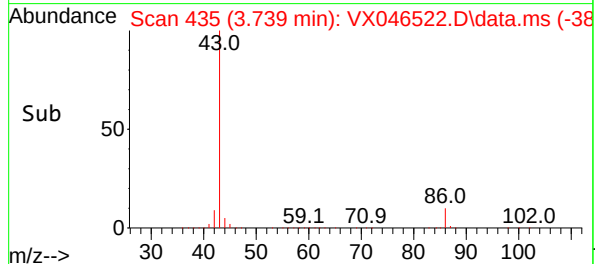
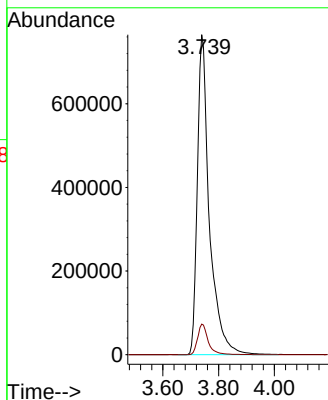
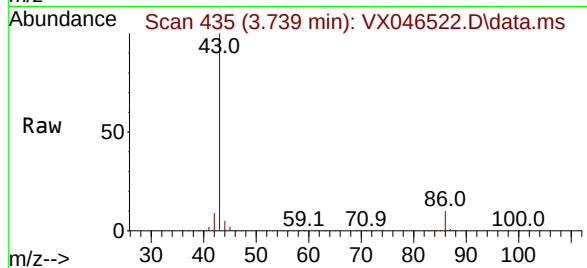
#23
Vinyl Acetate
Concen: 820.000 ug/l
RT: 3.739 min Scan# 417
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 229413
Ion Ratio Lower Upper
43 100
86 9.5 7.5 11.3

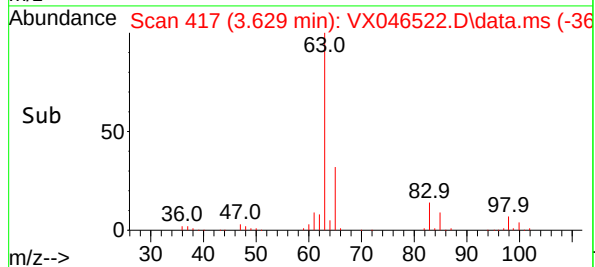
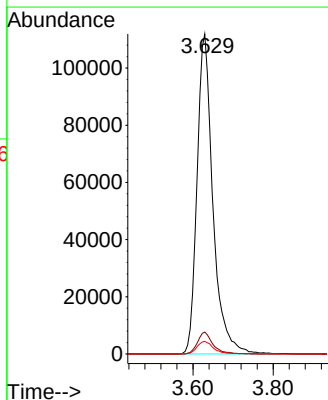
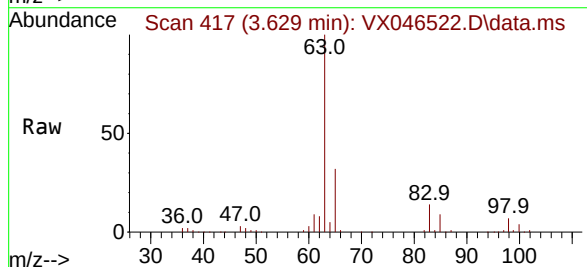
Manual Integrations
APPROVED

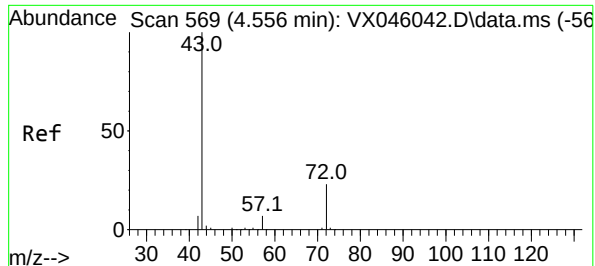
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#24
1,1-Dichloroethane
Concen: 151.900 ug/l
RT: 3.629 min Scan# 417
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 63 Resp: 306779
Ion Ratio Lower Upper
63 100
98 6.9 3.6 10.8
100 3.9 2.1 6.3





#25

2-Butanone

Concen: 824.425 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 64363

Ion Ratio Lower Upper

43 100

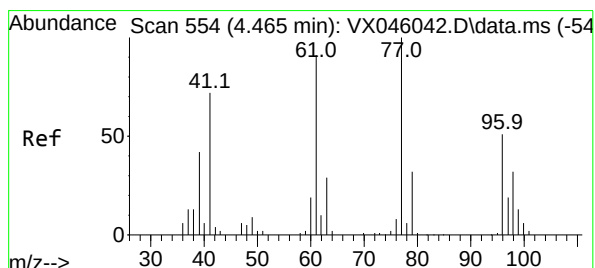
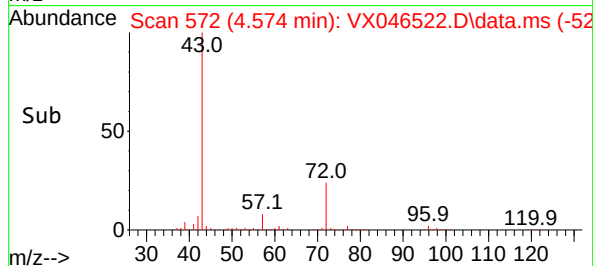
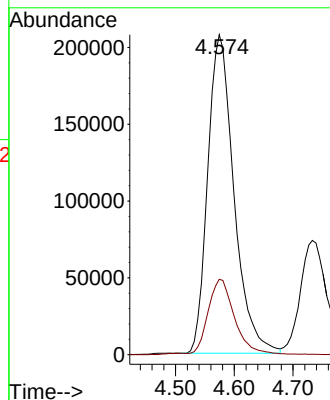
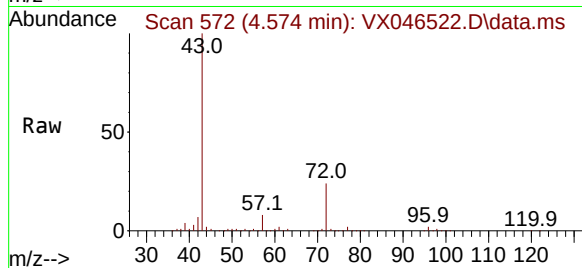
72 23.4 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 161.222 ug/l

RT: 4.495 min Scan# 559

Delta R.T. 0.000 min

Lab File: VX046522.D

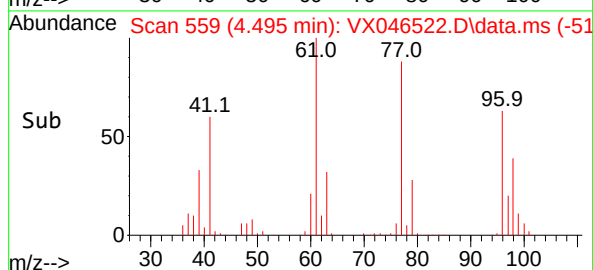
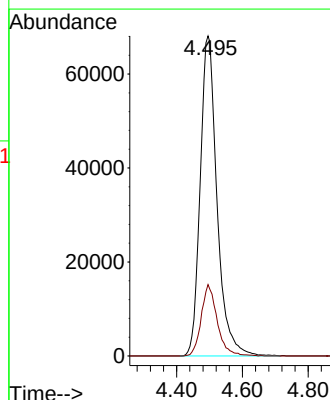
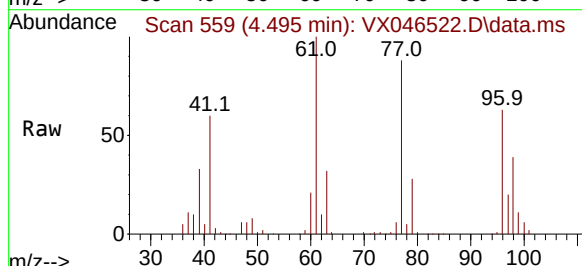
Acq: 06 Jun 2025 11:25

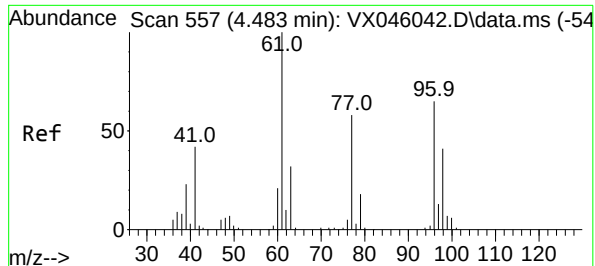
Tgt Ion: 77 Resp: 241718

Ion Ratio Lower Upper

77 100

97 21.2 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 148.753 ug/l

RT: 4.507 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 18136

Ion Ratio Lower Upper

96 100

61 158.0 0.0 322.8

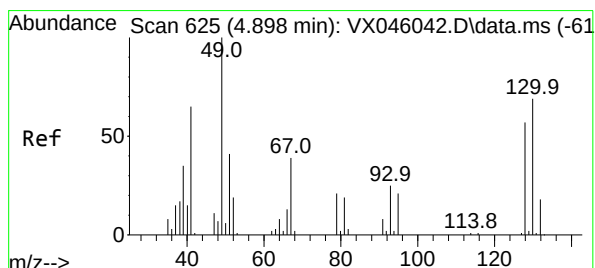
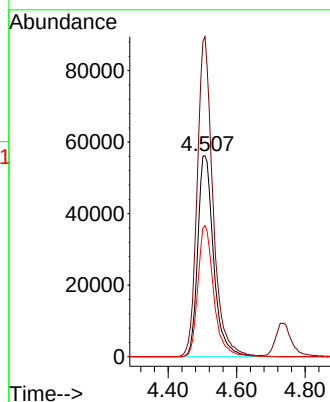
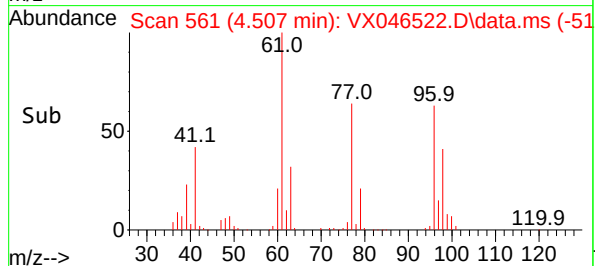
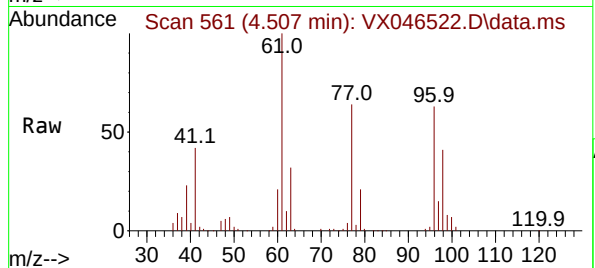
98 64.9 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 144.483 ug/l

RT: 4.916 min Scan# 628

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

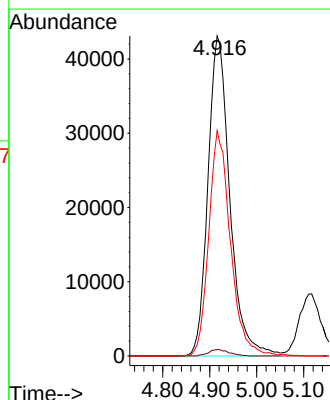
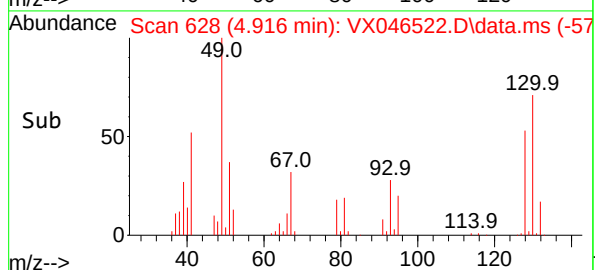
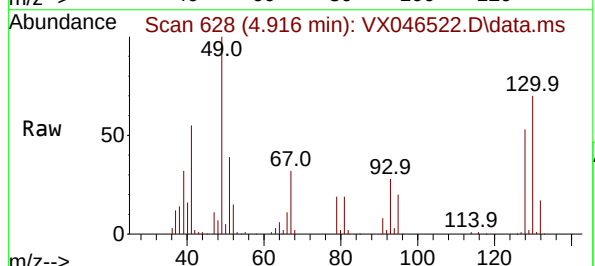
Tgt Ion: 49 Resp: 139177

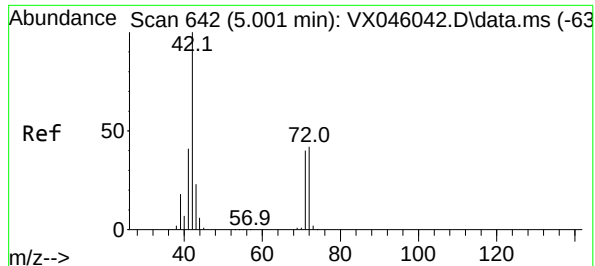
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.0

130 69.4 56.2 84.2





#29

Tetrahydrofuran

Concen: 819.909 ug/l

RT: 5.019 min Scan# 64

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 42 Resp: 404249

Ion Ratio Lower Upper

42 100

72 41.4 33.7 50.5

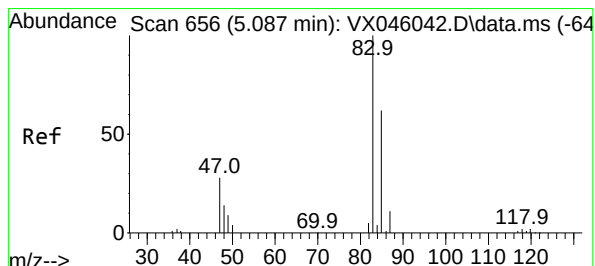
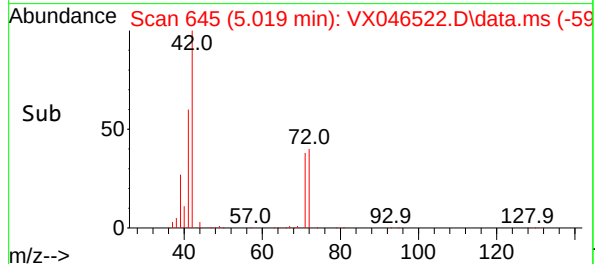
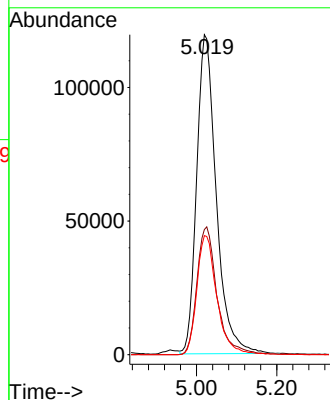
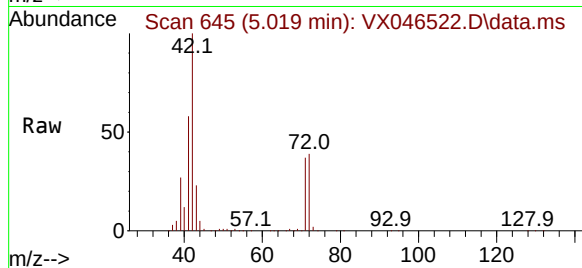
71 38.3 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 150.747 ug/l

RT: 5.111 min Scan# 660

Delta R.T. 0.000 min

Lab File: VX046522.D

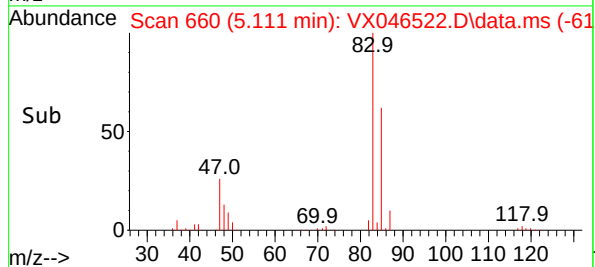
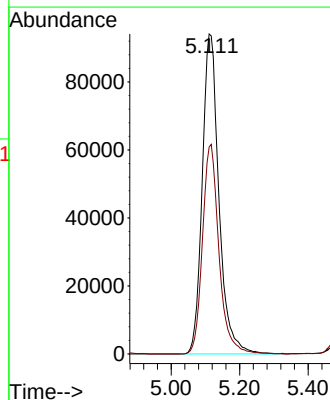
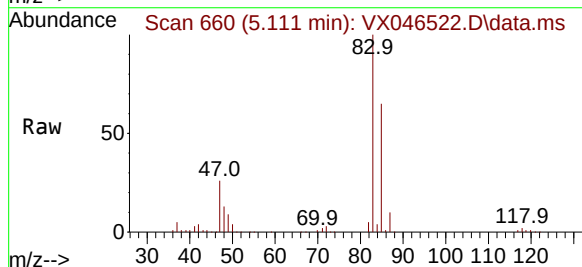
Acq: 06 Jun 2025 11:25

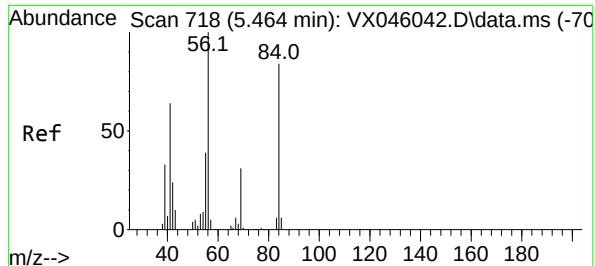
Tgt Ion: 83 Resp: 319000

Ion Ratio Lower Upper

83 100

85 64.7 49.3 73.9





#31

Cyclohexane

Concen: 147.652 ug/l

RT: 5.489 min Scan# 718

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 240734

Ion Ratio Lower Upper

56 100

69 30.3 24.4 36.6

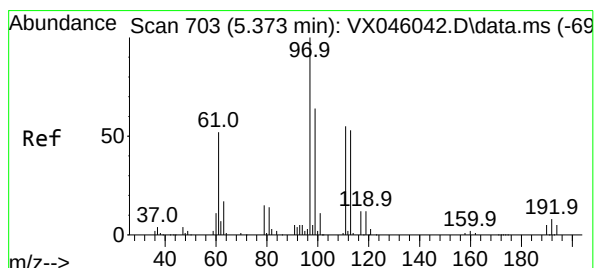
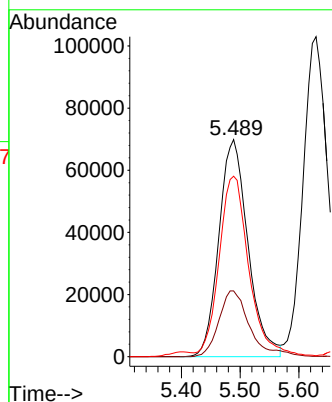
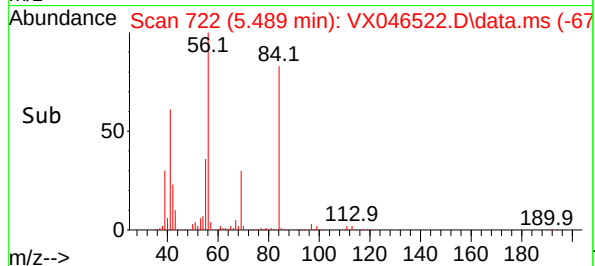
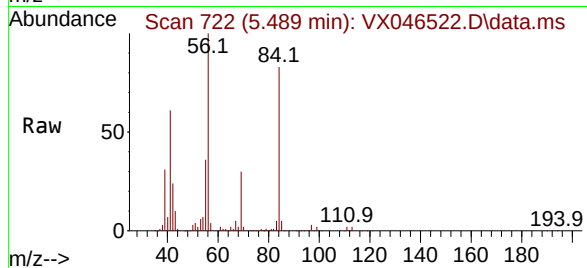
84 80.9 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#32

1,1,1-Trichloroethane

Concen: 155.193 ug/l

RT: 5.404 min Scan# 708

Delta R.T. 0.006 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

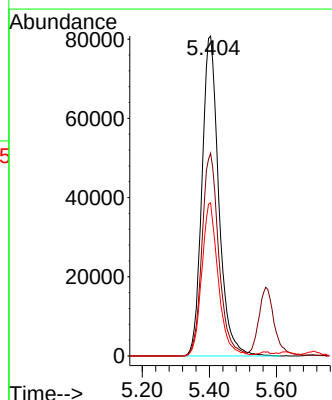
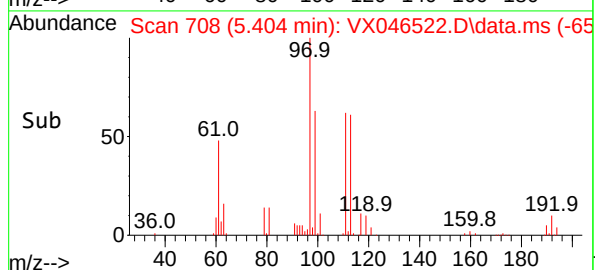
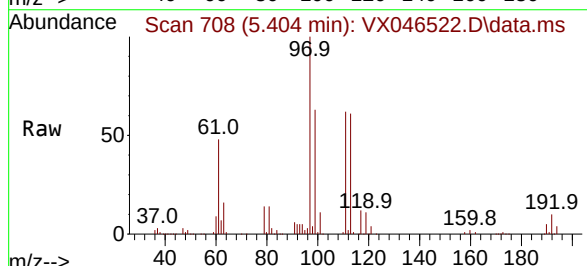
Tgt Ion: 97 Resp: 280921

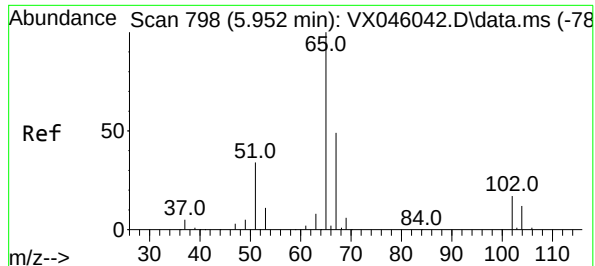
Ion Ratio Lower Upper

97 100

99 63.6 51.8 77.6

61 47.1 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 151.835 ug/l

RT: 5.971 min Scan# 801

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 65 Resp: 212938

Ion Ratio Lower Upper

65 100

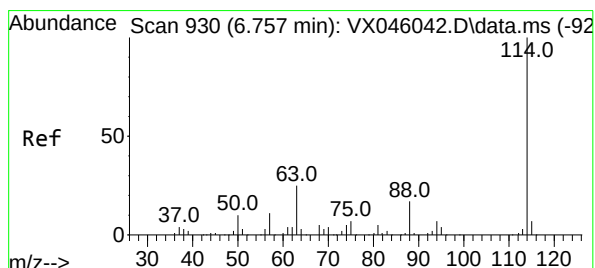
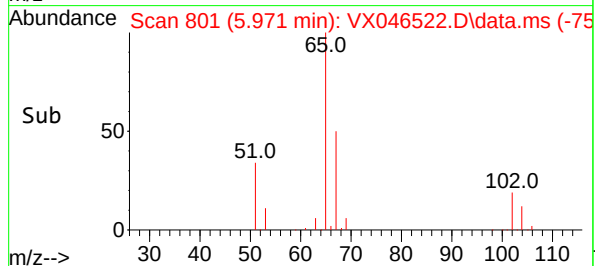
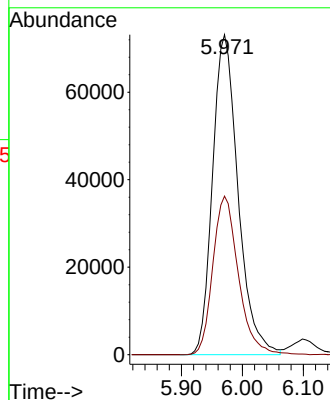
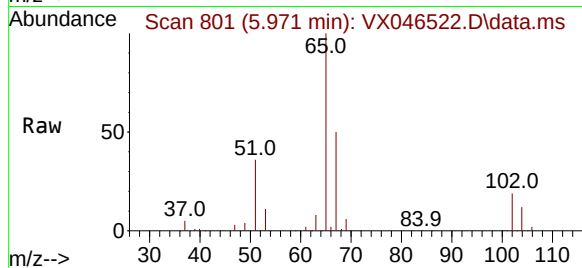
67 49.6 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.775 min Scan# 933

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

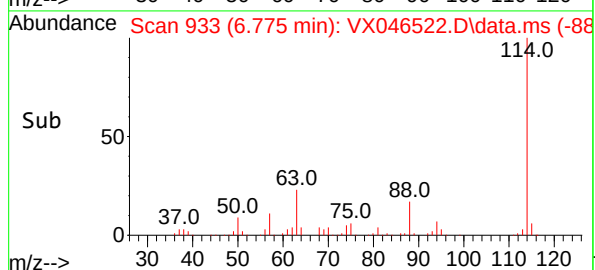
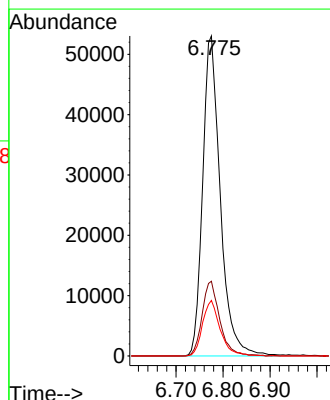
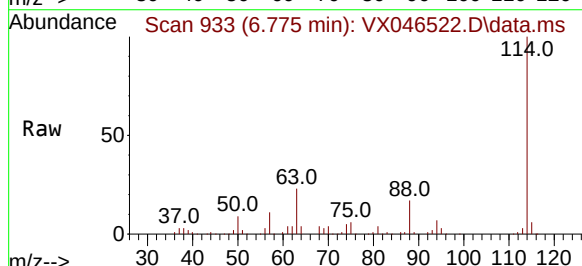
Tgt Ion:114 Resp: 138158

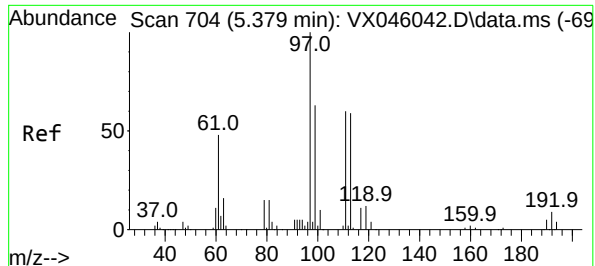
Ion Ratio Lower Upper

114 100

63 23.3 0.0 49.2

88 17.4 0.0 33.6





#35

Dibromofluoromethane

Concen: 154.516 ug/l

RT: 5.404 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:113 Resp: 156990

Ion Ratio Lower Upper

113 100

111 102.8 83.1 124.7

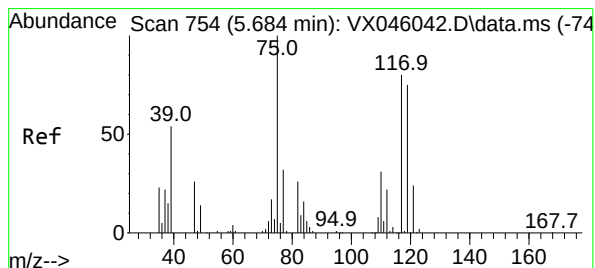
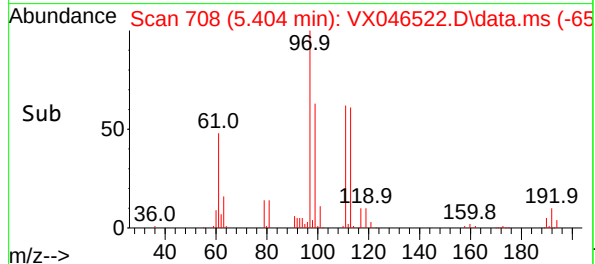
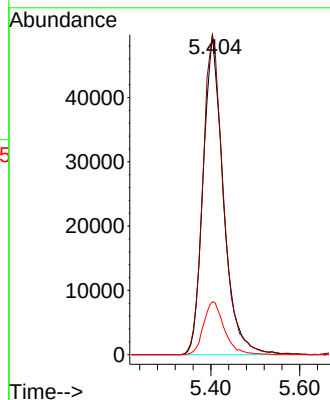
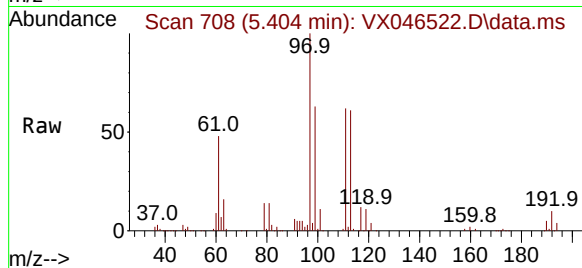
192 17.1 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#36

1,1-Dichloropropene

Concen: 138.605 ug/l

RT: 5.708 min Scan# 758

Delta R.T. -0.006 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

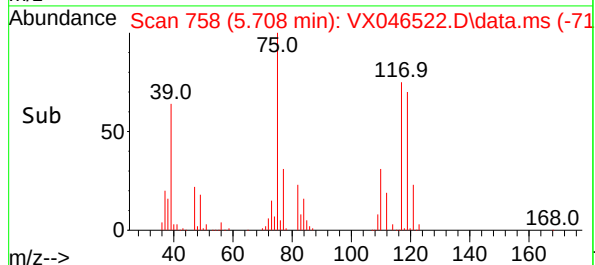
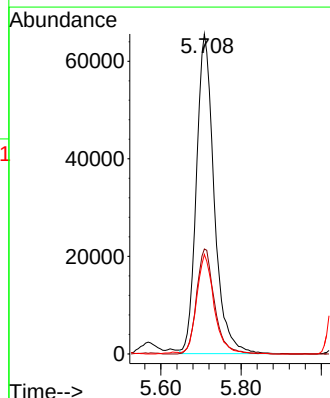
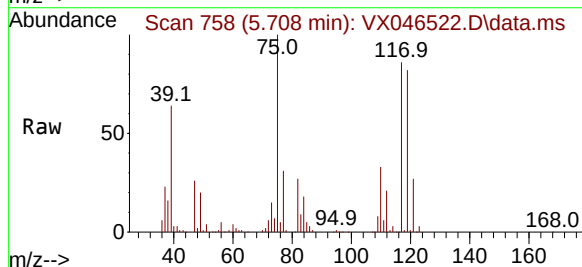
Tgt Ion: 75 Resp: 201157

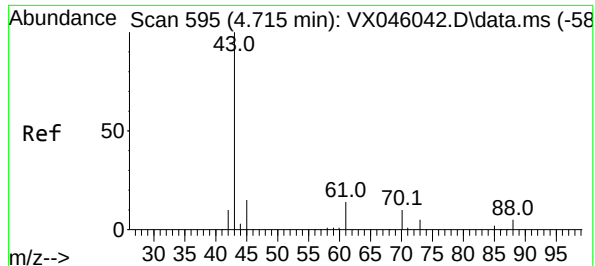
Ion Ratio Lower Upper

75 100

110 33.2 16.3 48.9

77 30.2 24.3 36.5





#37

Ethyl Acetate

Concen: 174.441 ug/l

RT: 4.733 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

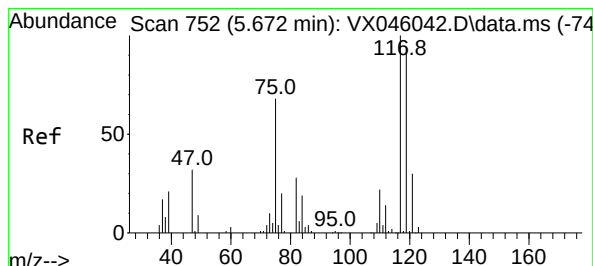
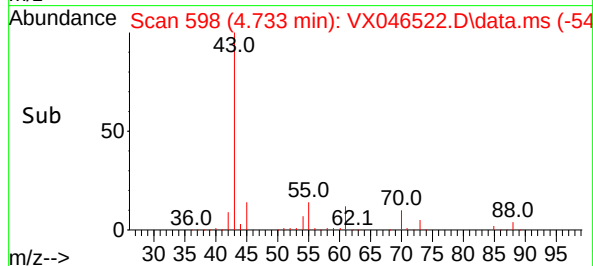
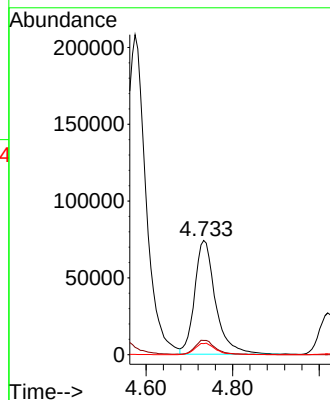
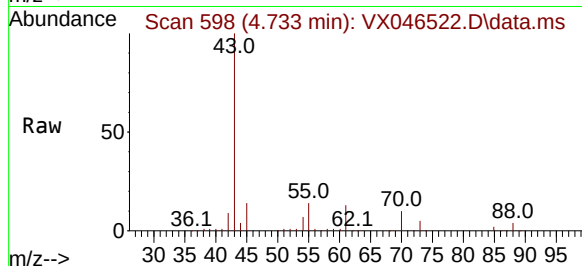
VSTDIC150

Tgt Ion:	43	Resp:	24703
Ion	Ratio	Lower	Upper
43	100		
61	12.7	10.3	15.5
70	10.0	7.9	11.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#38

Carbon Tetrachloride

Concen: 147.722 ug/l

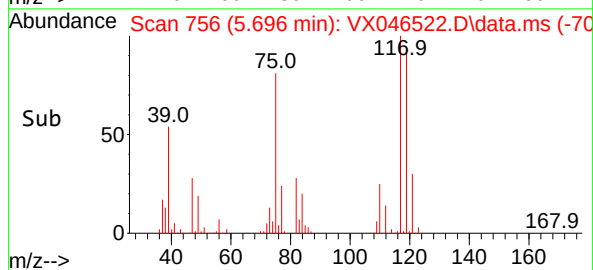
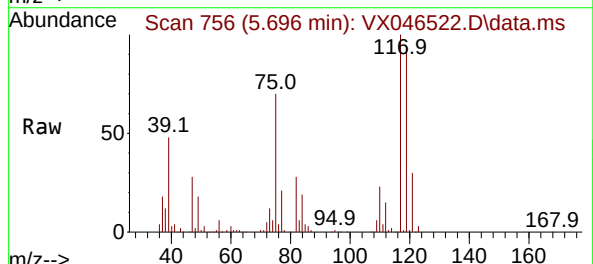
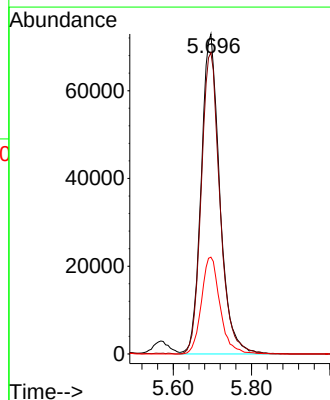
RT: 5.696 min Scan# 756

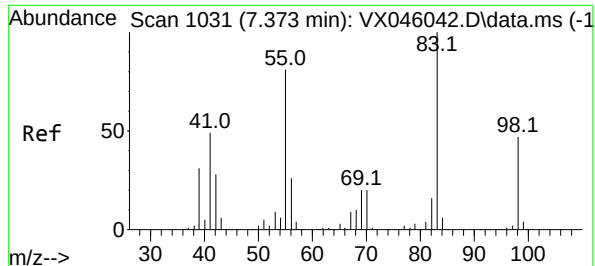
Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Tgt Ion:	117	Resp:	240128
Ion	Ratio	Lower	Upper
117	100		
119	94.1	75.2	112.8
121	30.2	24.2	36.4





#39

Methylcyclohexane

Concen: 142.009 ug/l

RT: 7.391 min Scan# 1034

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 83 Resp: 24326

Ion Ratio Lower Upper

83 100

55 83.8 64.7 97.1

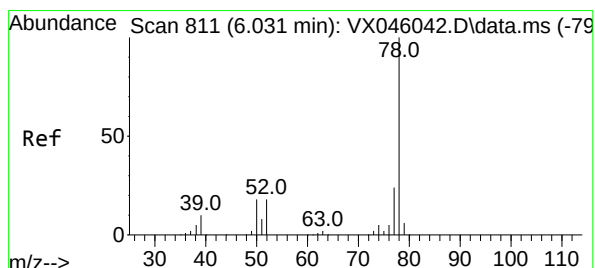
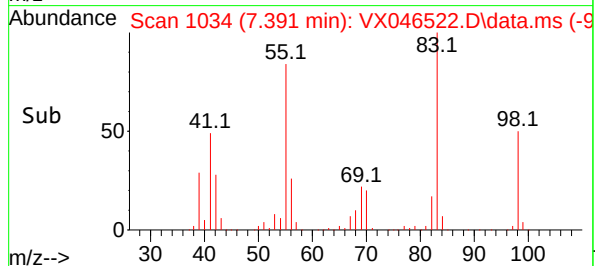
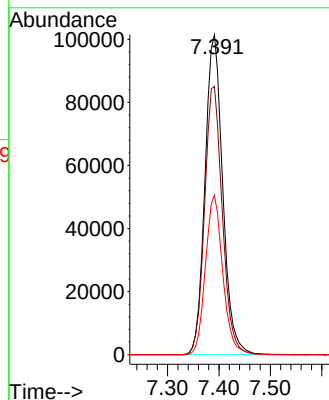
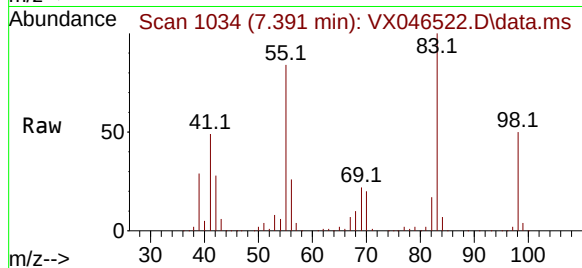
98 49.9 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#40

Benzene

Concen: 146.294 ug/l

RT: 6.056 min Scan# 815

Delta R.T. 0.000 min

Lab File: VX046522.D

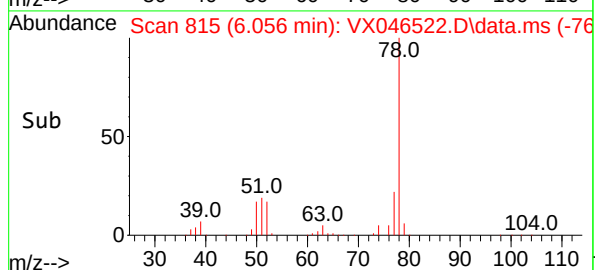
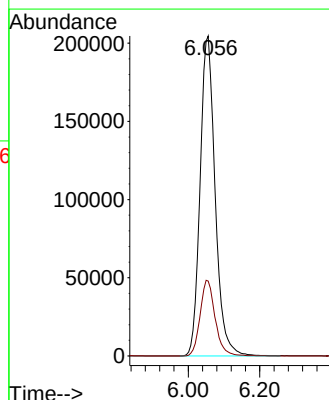
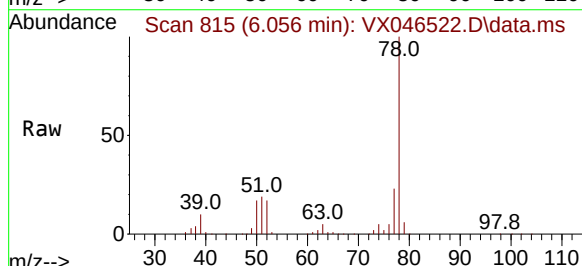
Acq: 06 Jun 2025 11:25

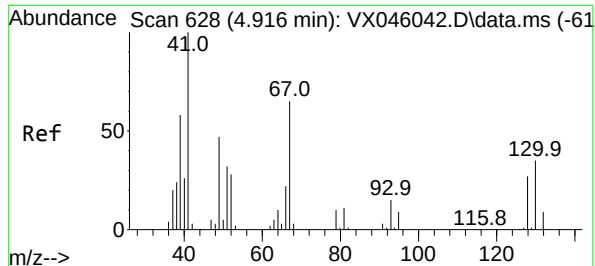
Tgt Ion: 78 Resp: 597704

Ion Ratio Lower Upper

78 100

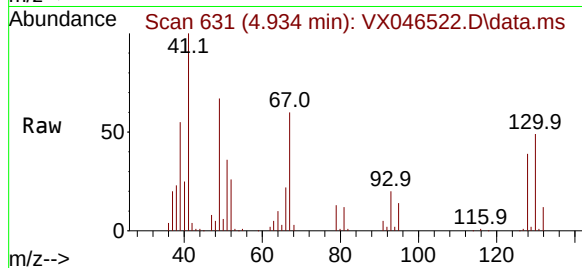
77 23.4 19.0 28.4





#41
Methacrylonitrile
Concen: 162.001 ug/l
RT: 4.934 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

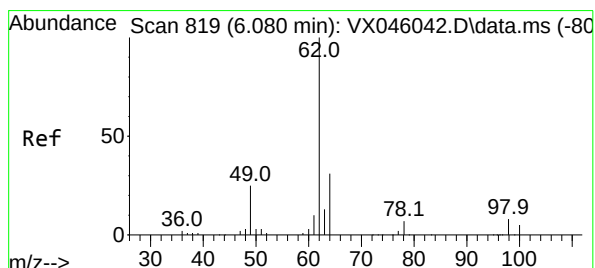
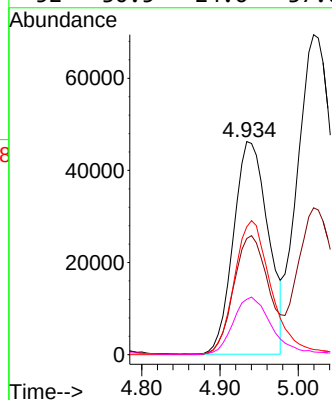
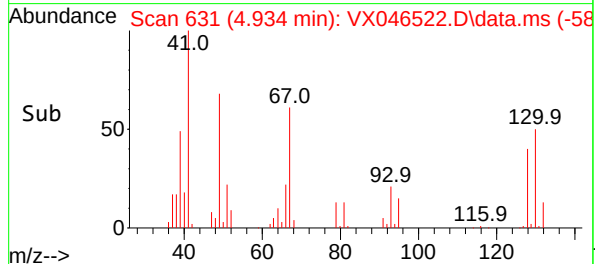
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 41 Resp: 142490
Ion Ratio Lower Upper
41 100
39 57.6 47.2 70.8
67 68.1 50.7 76.1
52 30.5 24.6 37.0

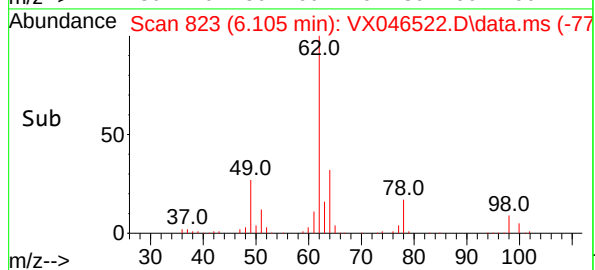
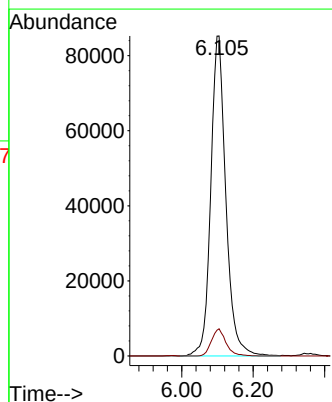
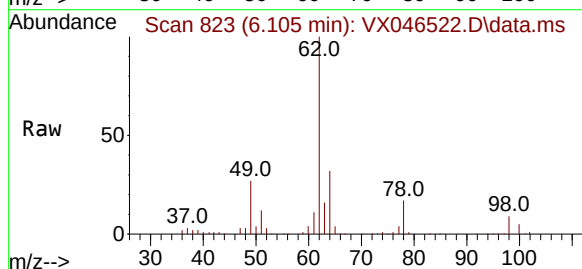
Manual Integrations
APPROVED

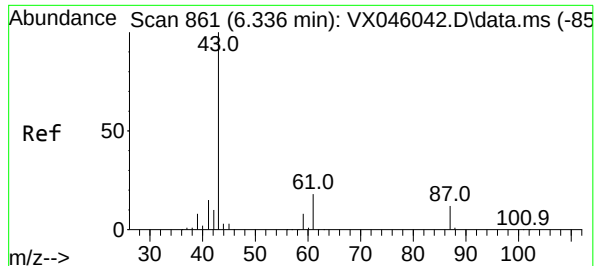
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#42
1,2-Dichloroethane
Concen: 146.794 ug/l
RT: 6.105 min Scan# 823
Delta R.T. 0.006 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 62 Resp: 249510
Ion Ratio Lower Upper
62 100
98 8.2 0.0 15.2





#43

Isopropyl Acetate

Concen: 168.193 ug/l

RT: 6.355 min Scan# 864

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 41532

Ion Ratio Lower Upper

43 100

61 18.4 14.3 21.5

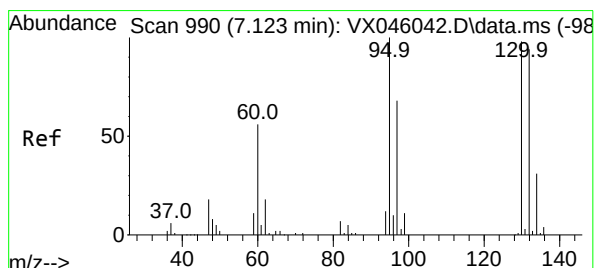
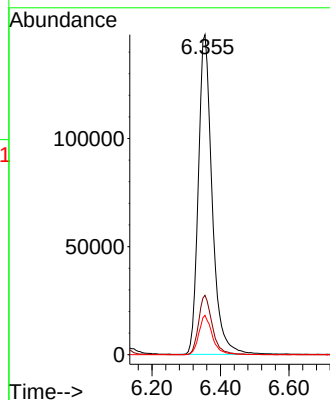
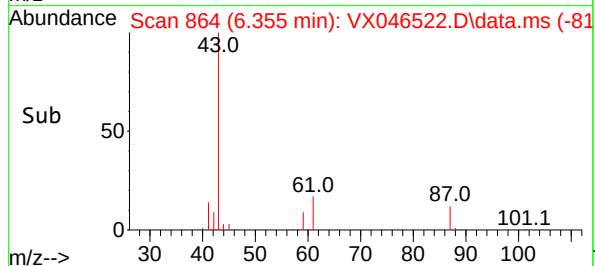
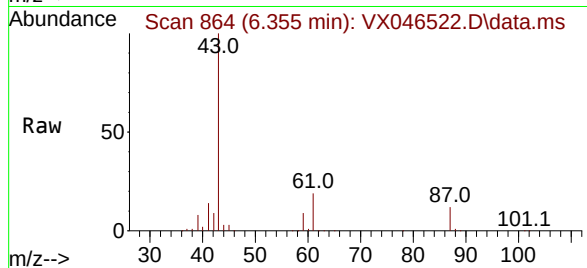
87 11.9 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#44

Trichloroethene

Concen: 141.503 ug/l

RT: 7.135 min Scan# 992

Delta R.T. 0.000 min

Lab File: VX046522.D

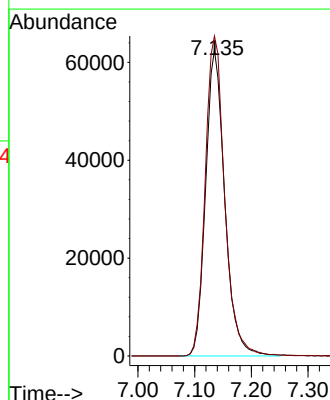
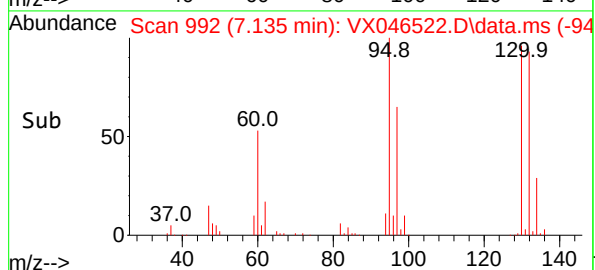
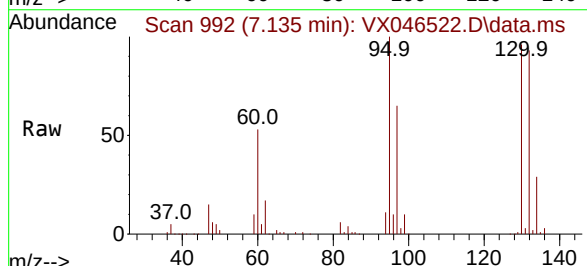
Acq: 06 Jun 2025 11:25

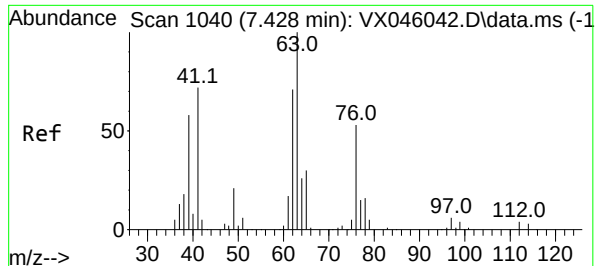
Tgt Ion:130 Resp: 146894

Ion Ratio Lower Upper

130 100

95 104.5 0.0 204.2





#45

1,2-Dichloropropane

Concen: 153.441 ug/l

RT: 7.440 min Scan# 1042

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 63 Resp: 16181

Ion Ratio Lower Upper

63 100

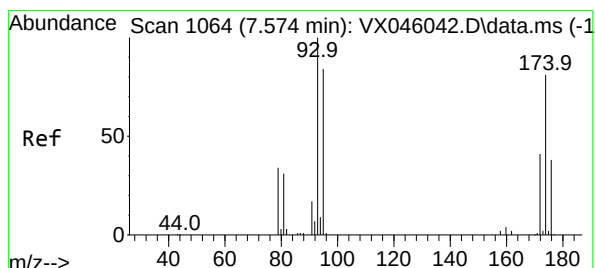
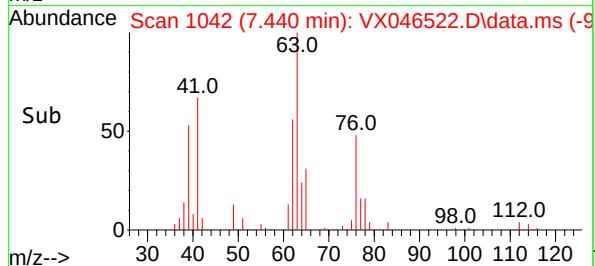
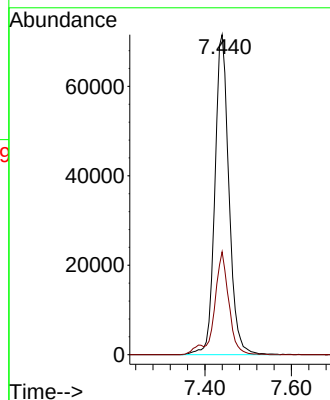
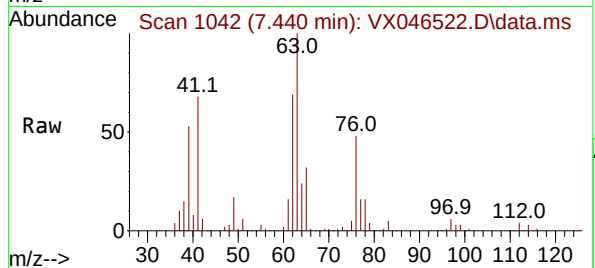
65 32.1 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#46

Dibromomethane

Concen: 149.642 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

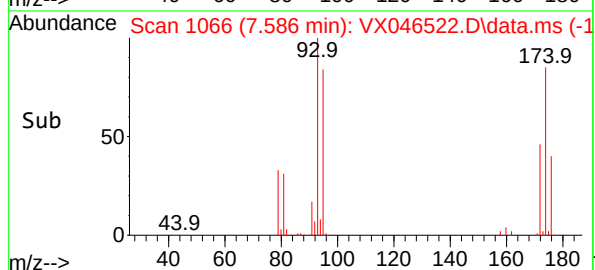
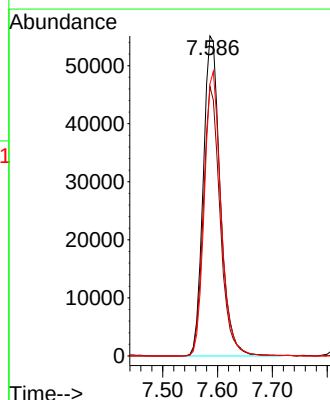
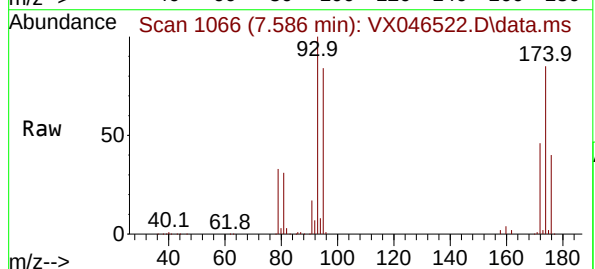
Tgt Ion: 93 Resp: 118718

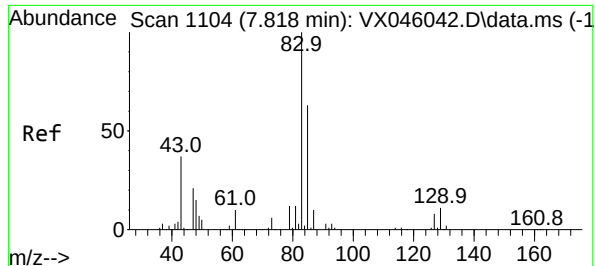
Ion Ratio Lower Upper

93 100

95 83.0 65.6 98.4

174 87.0 68.2 102.2





#47

Bromodichloromethane

Concen: 157.050 ug/l

RT: 7.830 min Scan# 1106

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

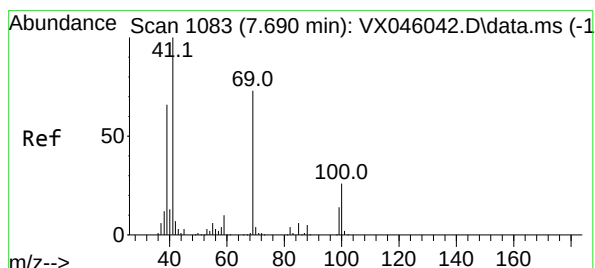
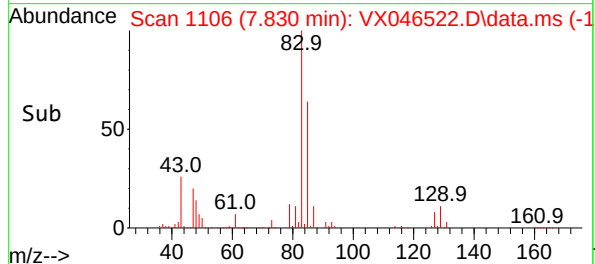
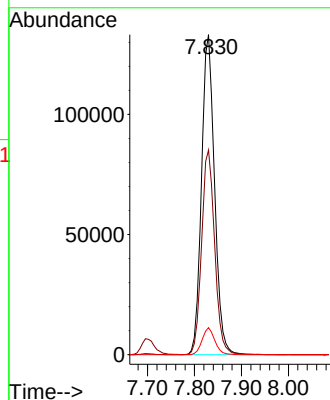
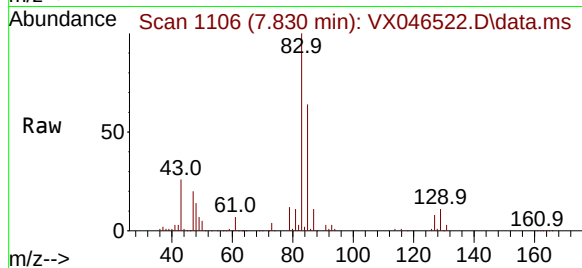
VSTDIC150

Tgt Ion:	83	Resp:	25618
Ion	Ratio	Lower	Upper
83	100		
85	63.9	50.5	75.7
127	8.5	6.5	9.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#48

Methyl methacrylate

Concen: 168.505 ug/l

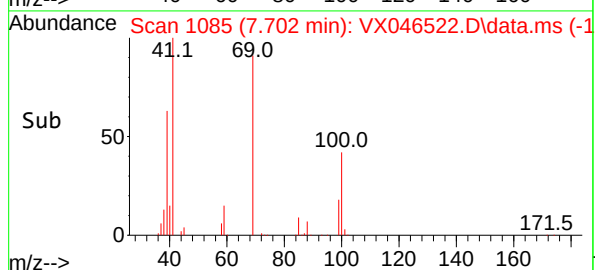
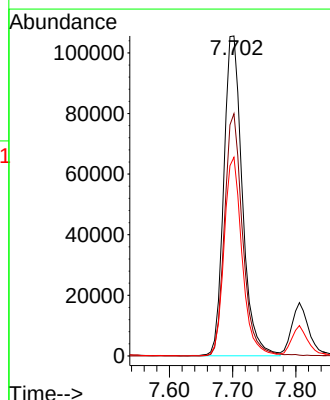
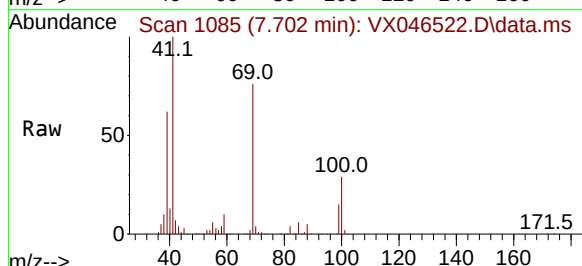
RT: 7.702 min Scan# 1085

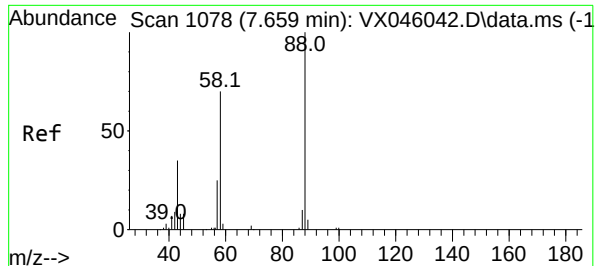
Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Tgt Ion:	41	Resp:	214089
Ion	Ratio	Lower	Upper
41	100		
69	74.3	58.5	87.7
39	60.3	51.7	77.5





#49

1,4-Dioxane

Concen: 3384.526 ug/l

RT: 7.671 min Scan# 1080

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

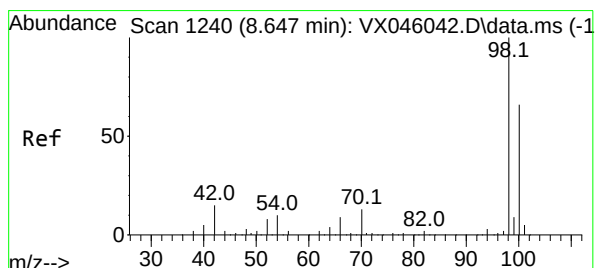
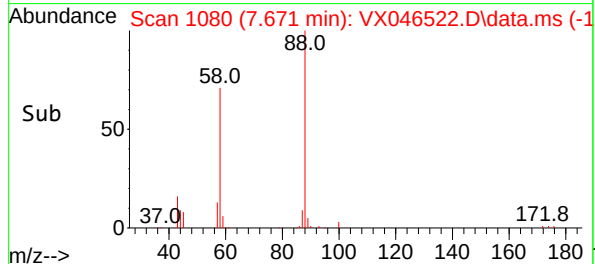
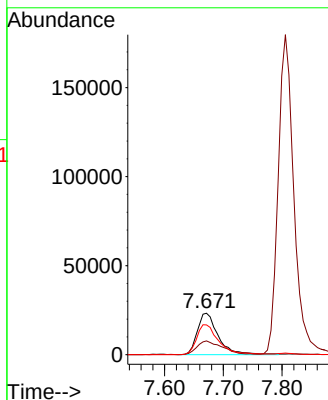
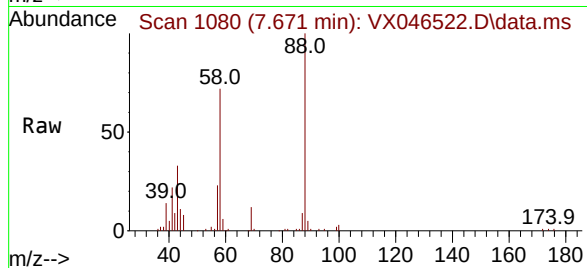
VSTDICC150

Tgt Ion:	88	Resp:	57504
Ion	Ratio	Lower	Upper
88	100		
43	39.7	33.4	50.2
58	76.2	58.6	88.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#50

Toluene-d8

Concen: 150.978 ug/l

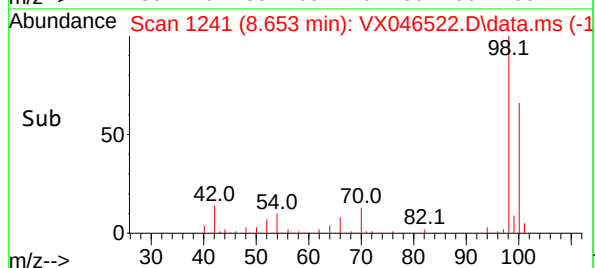
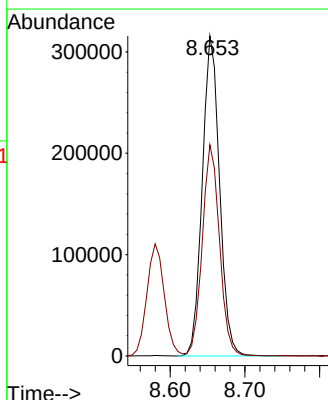
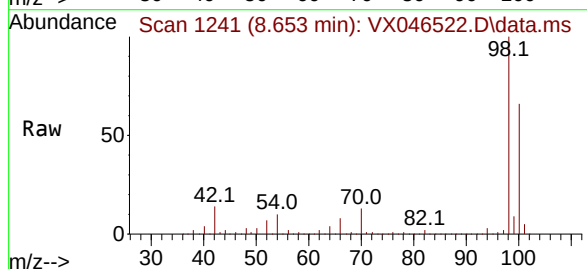
RT: 8.653 min Scan# 1241

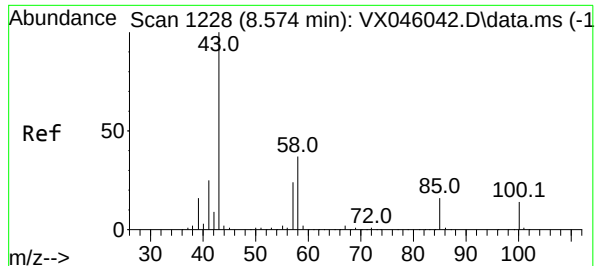
Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Tgt Ion:	98	Resp:	505724
Ion	Ratio	Lower	Upper
98	100		
100	65.9	53.5	80.3





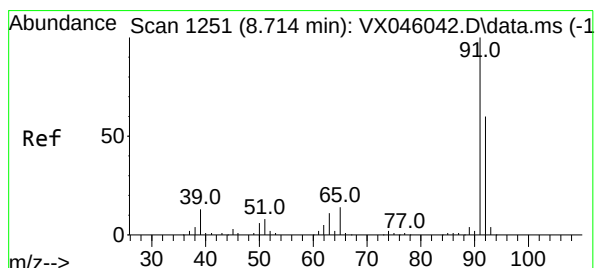
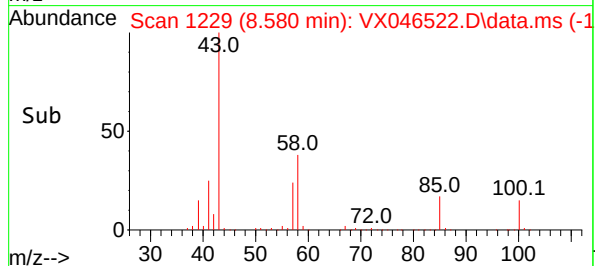
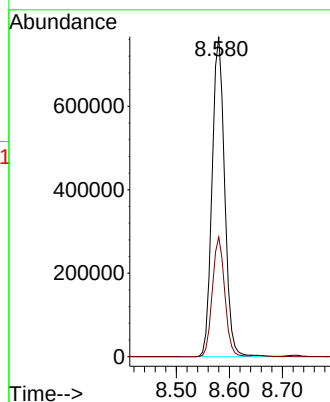
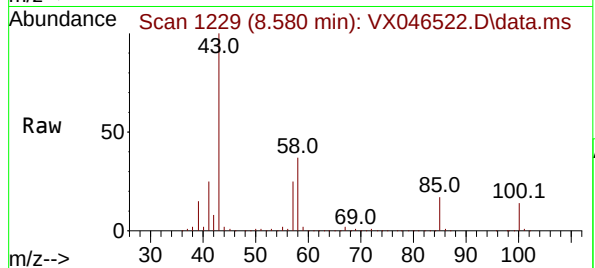
#51
4-Methyl-2-Pentanone
Concen: 804.759 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 126281
Ion Ratio Lower Upper
43 100
58 36.7 28.9 43.3

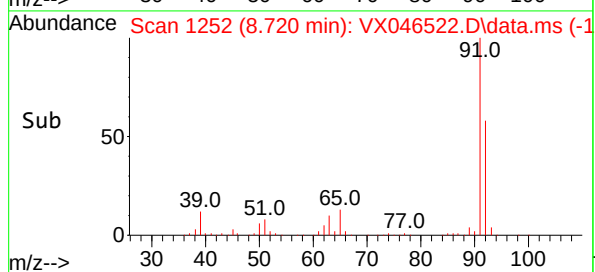
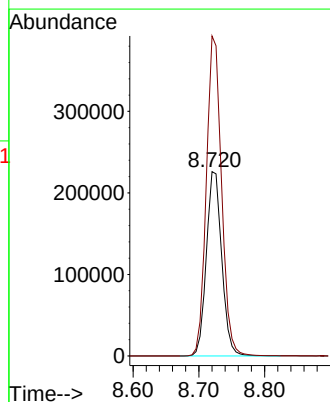
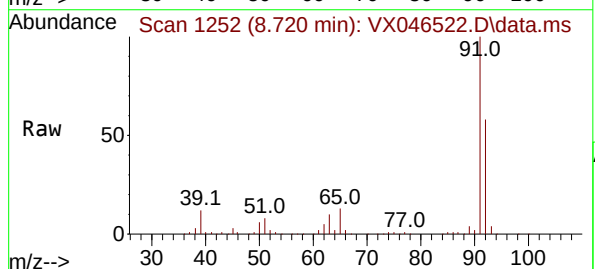
Manual Integrations
APPROVED

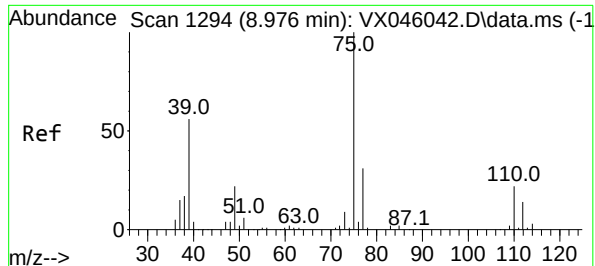
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#52
Toluene
Concen: 146.666 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 92 Resp: 368137
Ion Ratio Lower Upper
92 100
91 171.8 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 170.450 ug/l

RT: 8.982 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 249298

Ion Ratio Lower Upper

75 100

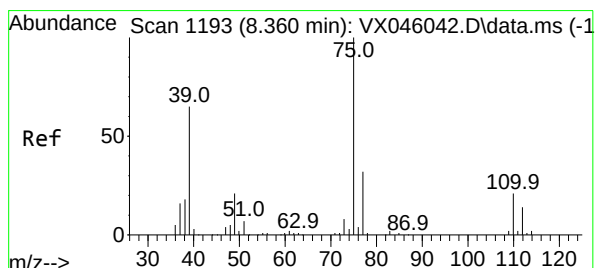
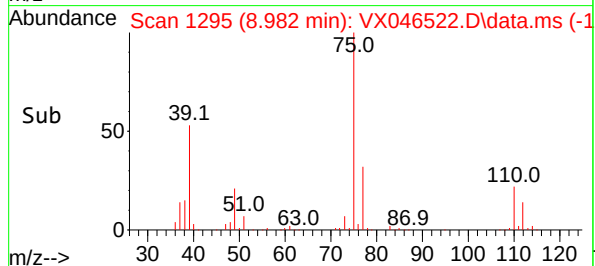
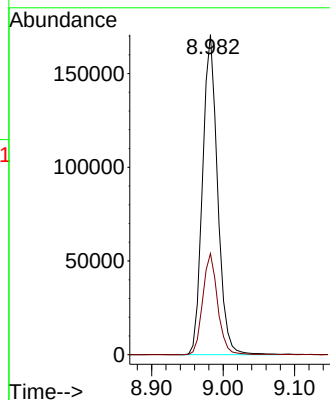
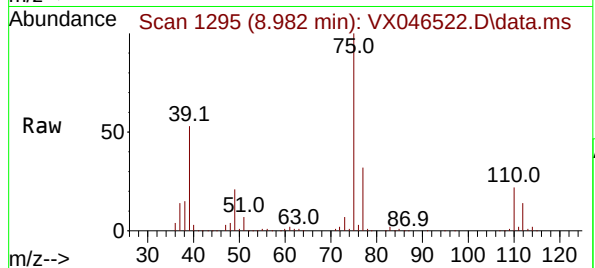
77 31.6 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#54

cis-1,3-Dichloropropene

Concen: 161.266 ug/l

RT: 8.373 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

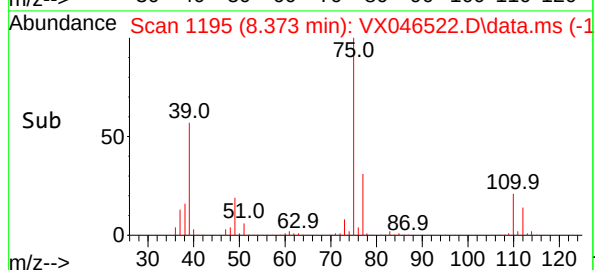
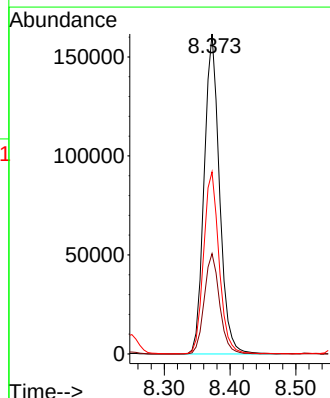
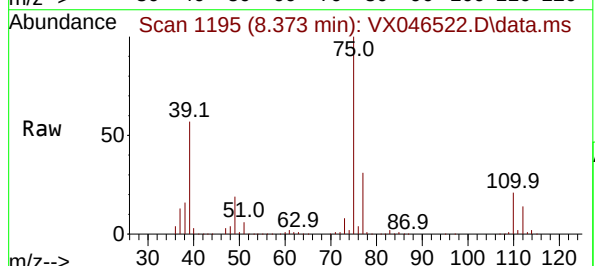
Tgt Ion: 75 Resp: 262248

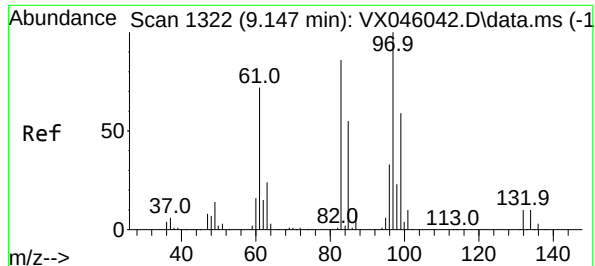
Ion Ratio Lower Upper

75 100

77 31.4 25.4 38.0

39 56.8 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 153.049 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX046522.D

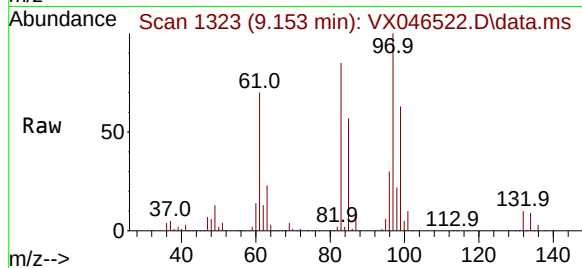
Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150



Tgt Ion: 97 Resp: 154220

Ion Ratio Lower Upper

97 100

83 85.1 69.0 103.6

85 57.1 44.3 66.5

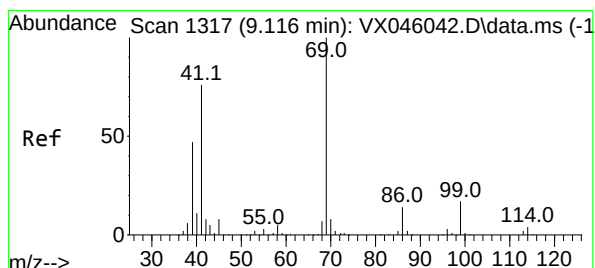
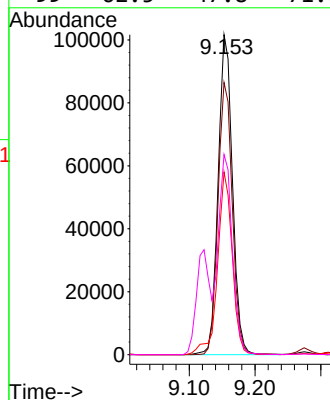
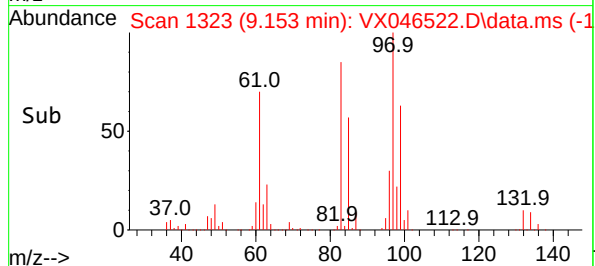
99 62.5 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#56

Ethyl methacrylate

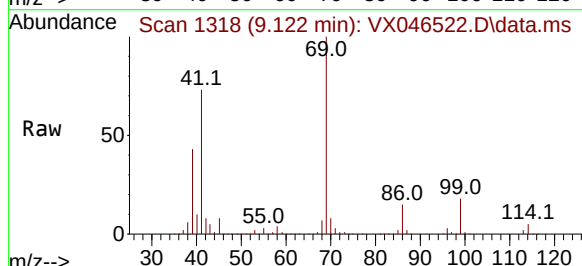
Concen: 168.851 ug/l

RT: 9.122 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25



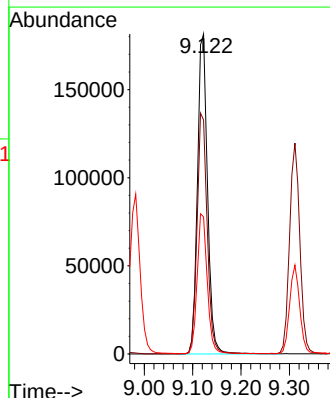
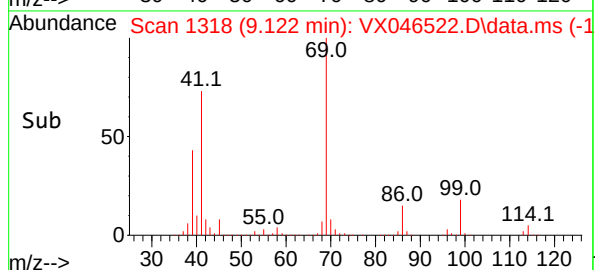
Tgt Ion: 69 Resp: 261827

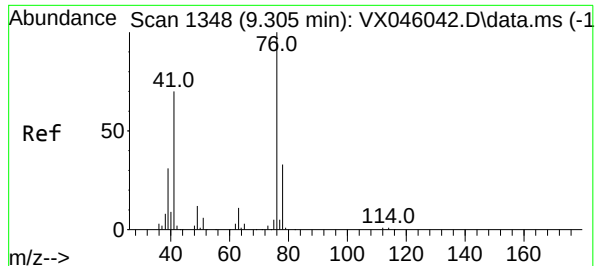
Ion Ratio Lower Upper

69 100

41 75.8 60.8 91.2

39 43.6 39.0 58.6





#57

1,3-Dichloropropane

Concen: 148.186 ug/l

RT: 9.311 min Scan# 1175

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 263879

Ion Ratio Lower Upper

76 100

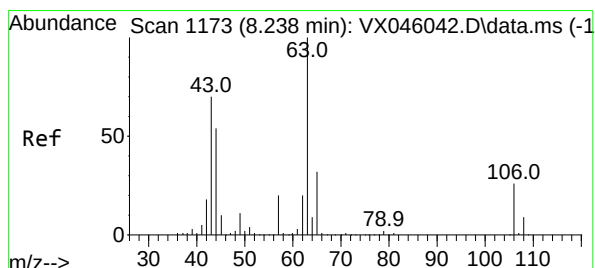
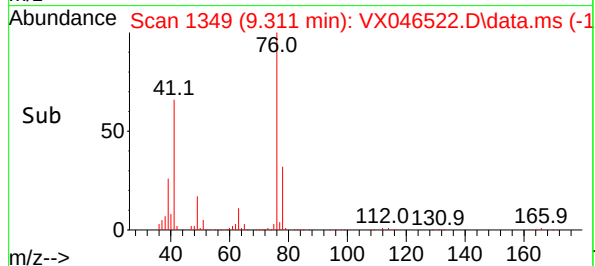
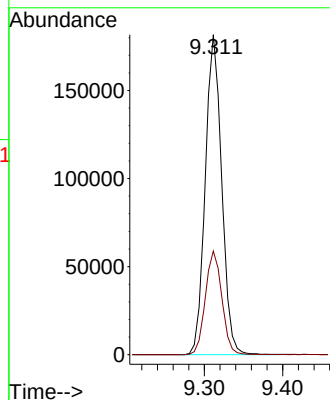
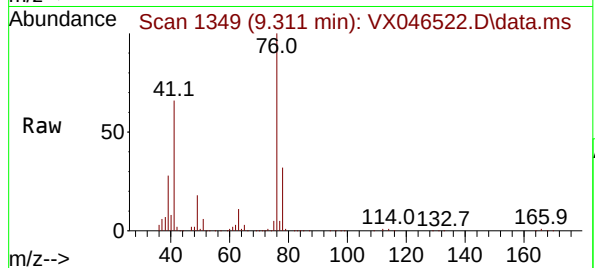
78 32.6 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#58

2-Chloroethyl Vinyl ether

Concen: 800.891 ug/l

RT: 8.251 min Scan# 1175

Delta R.T. 0.006 min

Lab File: VX046522.D

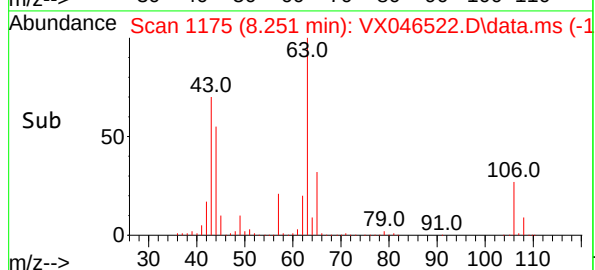
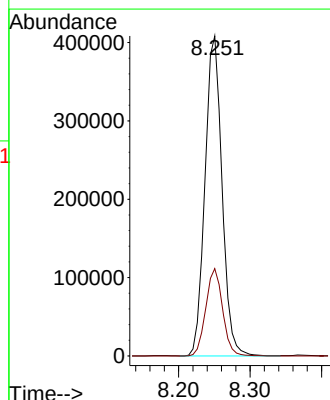
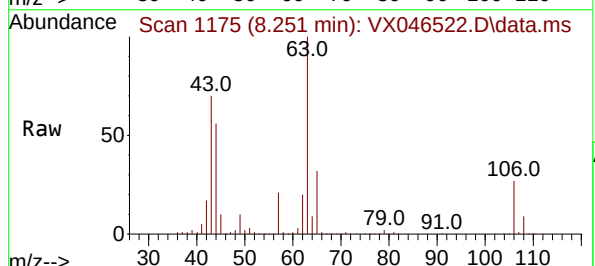
Acq: 06 Jun 2025 11:25

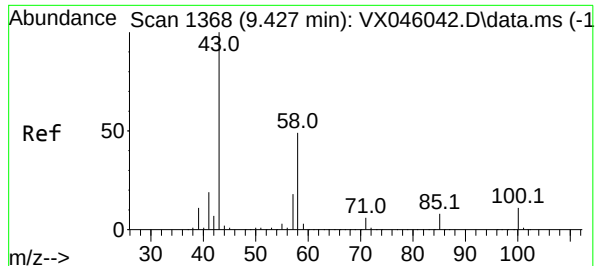
Tgt Ion: 63 Resp: 676448

Ion Ratio Lower Upper

63 100

106 26.9 21.5 32.3





#59

2-Hexanone

Concen: 806.953 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 90814

Ion Ratio Lower Upper

43 100

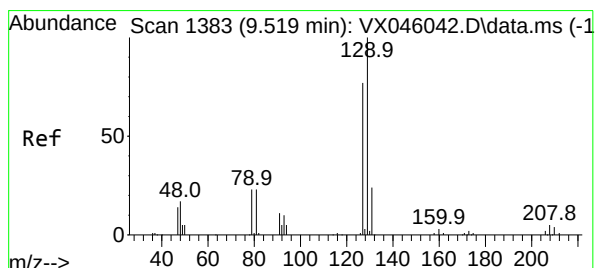
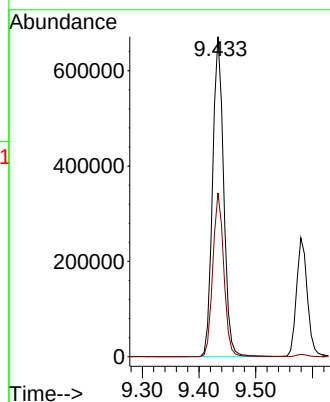
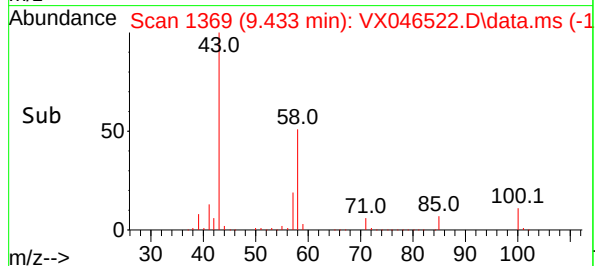
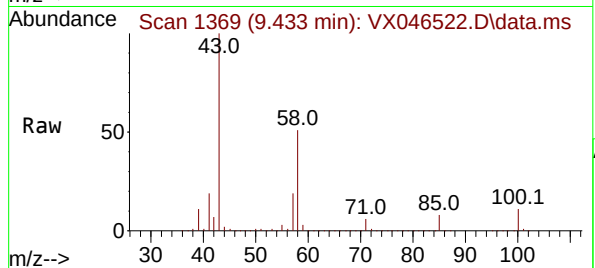
58 50.8 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#60

Dibromochloromethane

Concen: 156.239 ug/l

RT: 9.525 min Scan# 1384

Delta R.T. 0.000 min

Lab File: VX046522.D

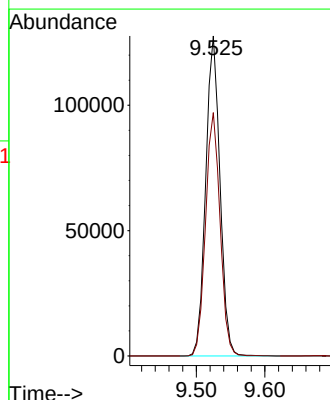
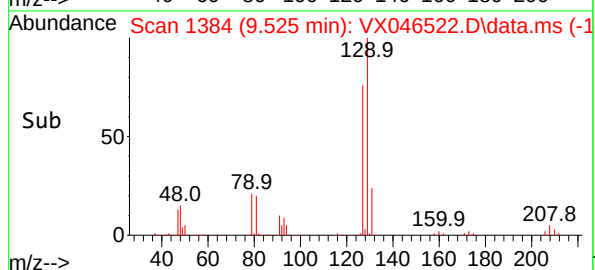
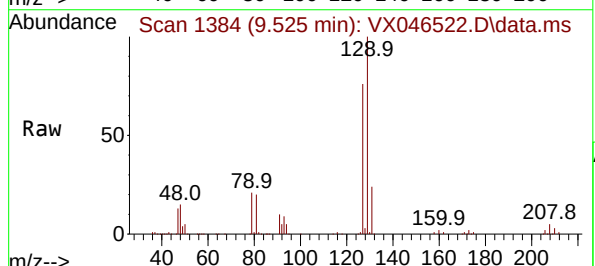
Acq: 06 Jun 2025 11:25

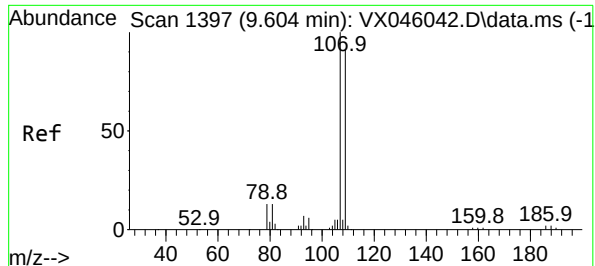
Tgt Ion:129 Resp: 185185

Ion Ratio Lower Upper

129 100

127 77.5 39.3 117.8





#61

1,2-Dibromoethane

Concen: 149.399 ug/l

RT: 9.610 min Scan# 1397

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:107 Resp: 15687

Ion Ratio Lower Upper

107 100

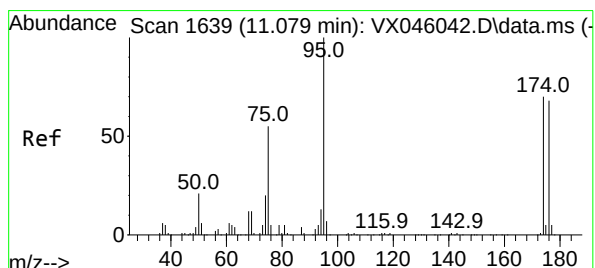
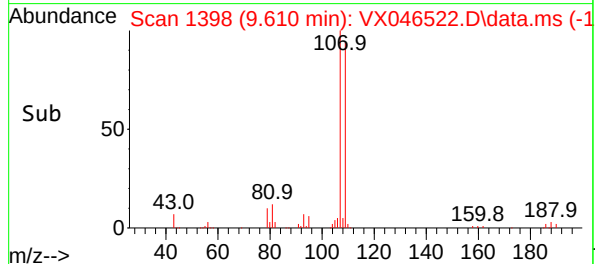
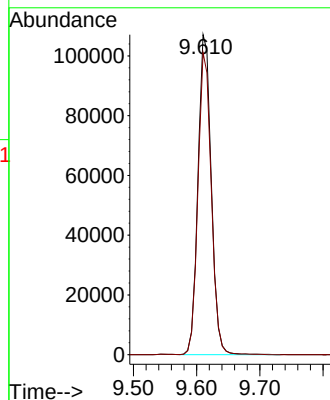
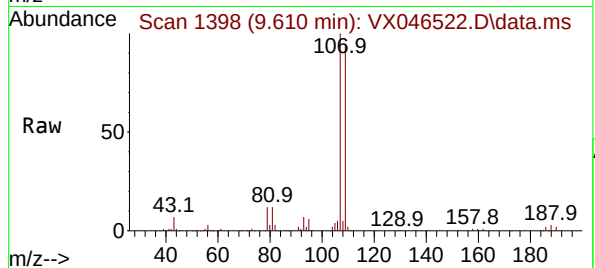
109 94.7 73.3 109.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#62

4-Bromofluorobenzene

Concen: 149.867 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

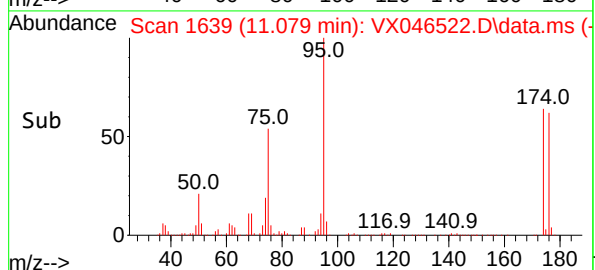
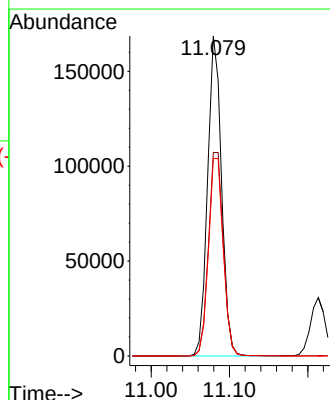
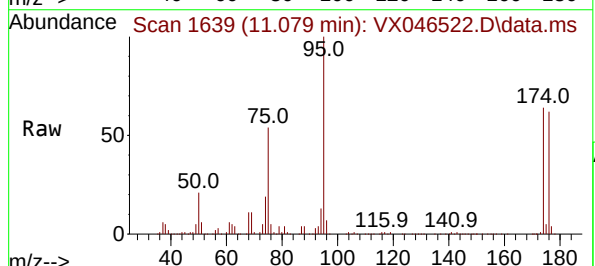
Tgt Ion: 95 Resp: 207701

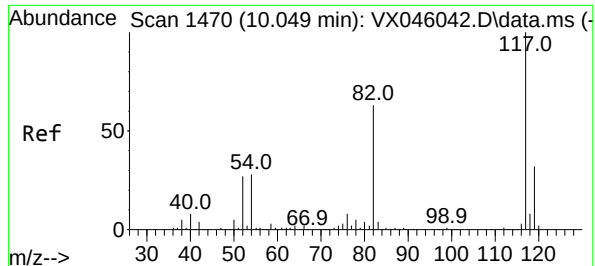
Ion Ratio Lower Upper

95 100

174 67.9 0.0 135.8

176 65.4 0.0 131.4





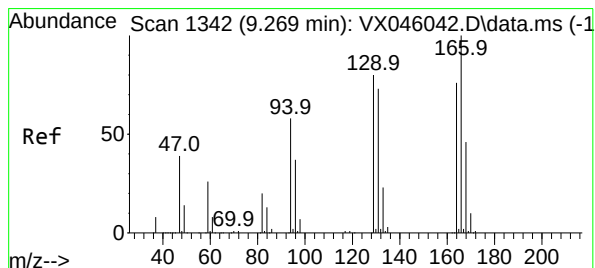
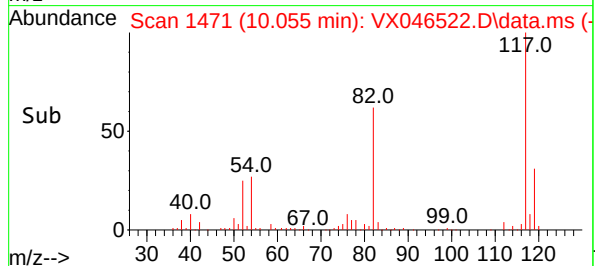
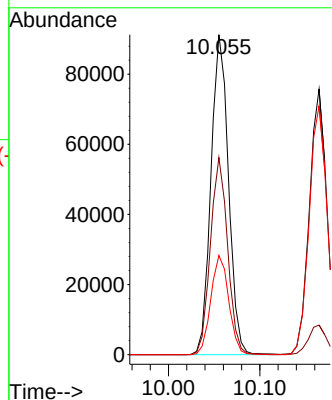
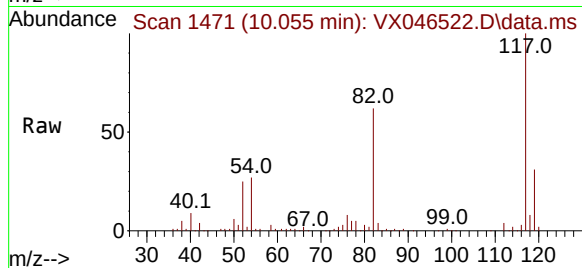
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 121245
Ion Ratio Lower Upper
117 100
82 61.6 50.6 76.0
119 31.0 25.8 38.6

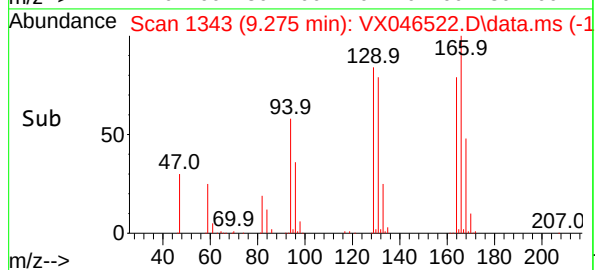
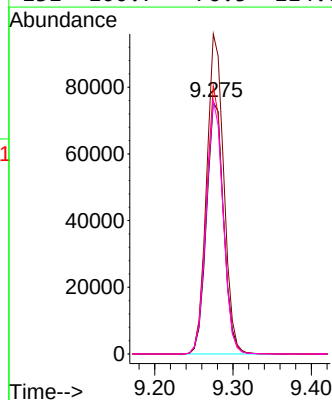
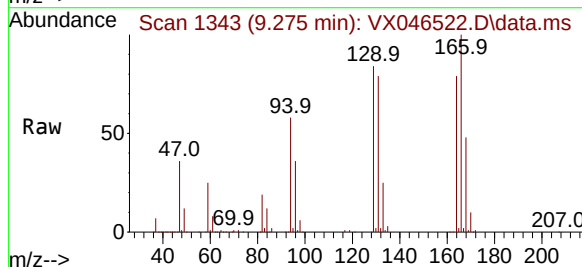
Manual Integrations
APPROVED

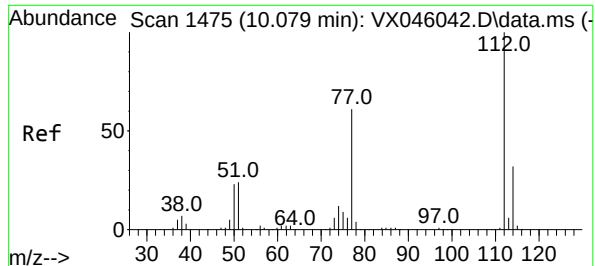
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#64
Tetrachloroethene
Concen: 140.948 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion:164 Resp: 114275
Ion Ratio Lower Upper
164 100
166 127.1 105.0 157.6
129 106.3 83.5 125.3
131 100.7 76.5 114.7





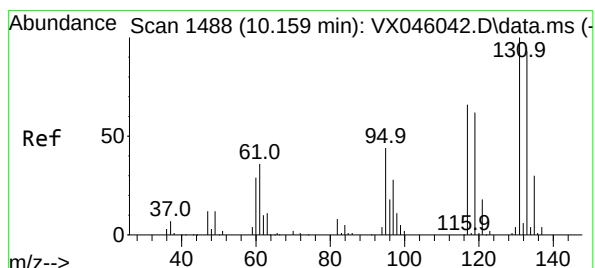
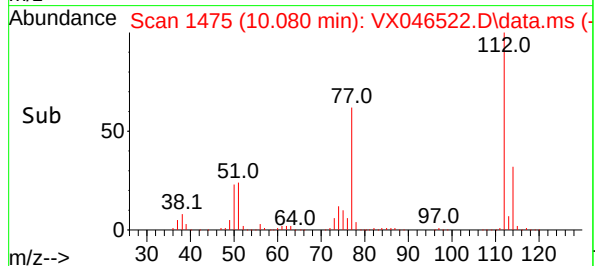
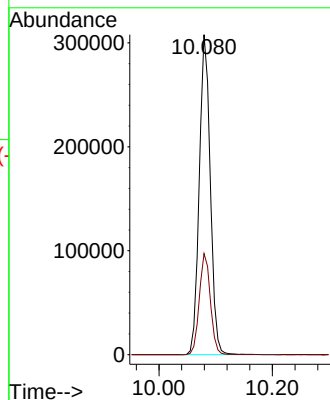
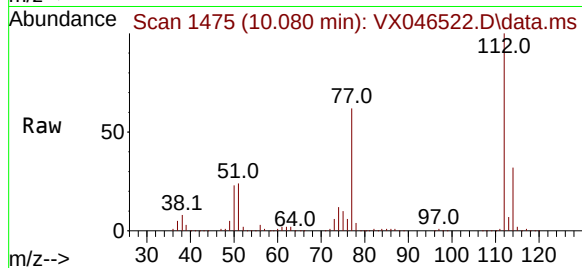
#65
Chlorobenzene
Concen: 145.311 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 41436
Ion Ratio Lower Upper
112 100
114 31.6 25.4 38.2

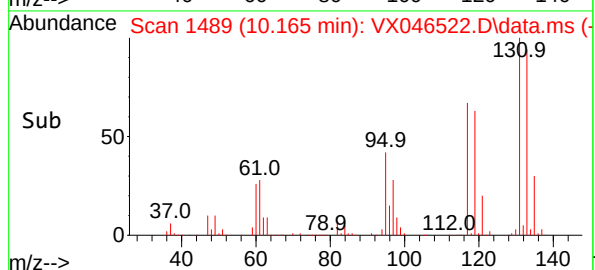
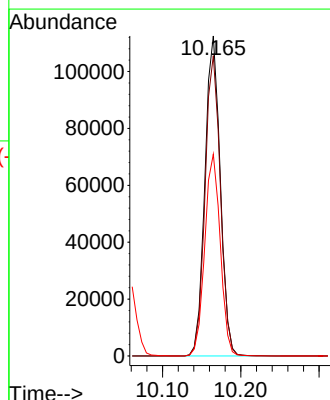
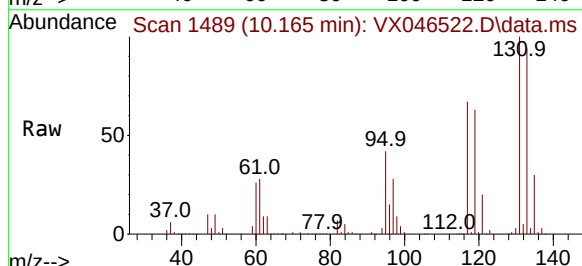
Manual Integrations
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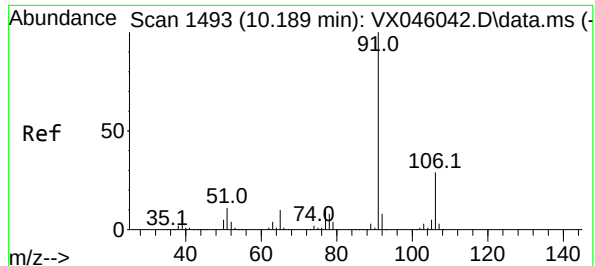
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 158.472 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion:131 Resp: 152702
Ion Ratio Lower Upper
131 100
133 94.1 47.3 141.9
119 63.8 31.6 95.0





#67

Ethyl Benzene

Concen: 149.114 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 742300

Ion Ratio Lower Upper

91 100

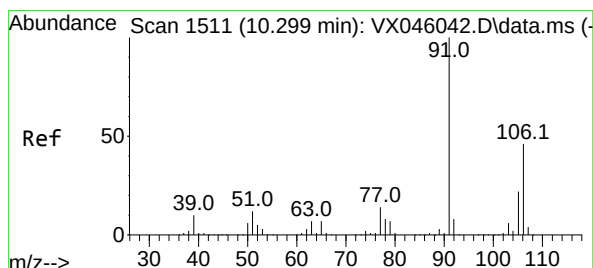
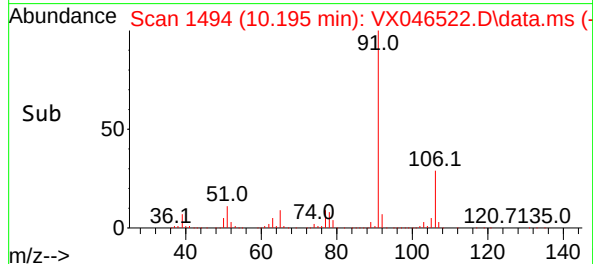
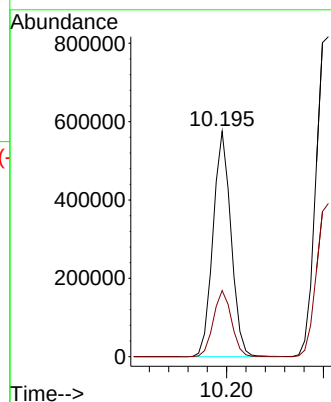
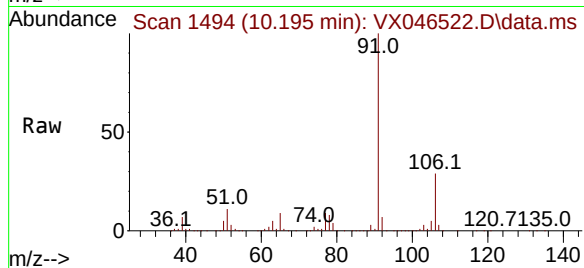
106 29.3 23.4 35.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#68

m/p-Xylenes

Concen: 297.452 ug/l

RT: 10.305 min Scan# 1512

Delta R.T. 0.006 min

Lab File: VX046522.D

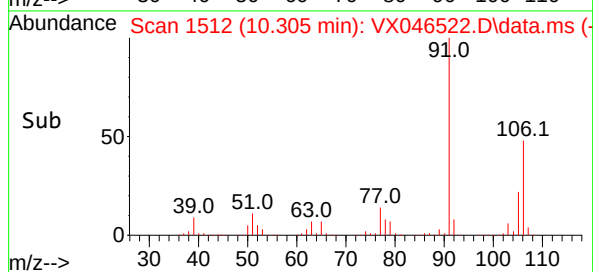
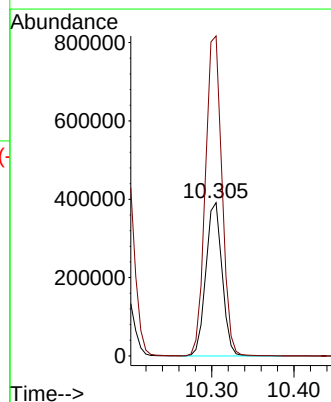
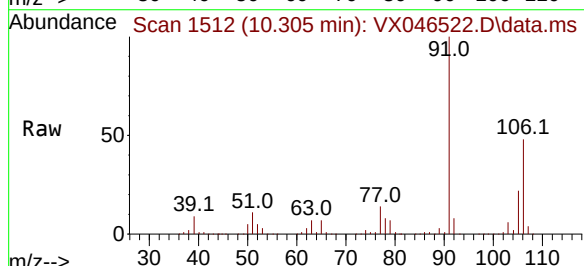
Acq: 06 Jun 2025 11:25

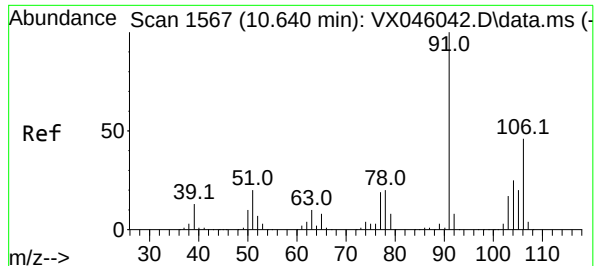
Tgt Ion:106 Resp: 537140

Ion Ratio Lower Upper

106 100

91 213.2 171.2 256.8





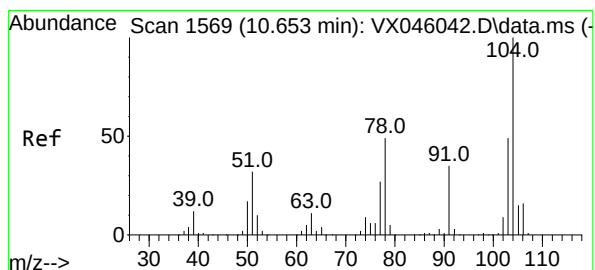
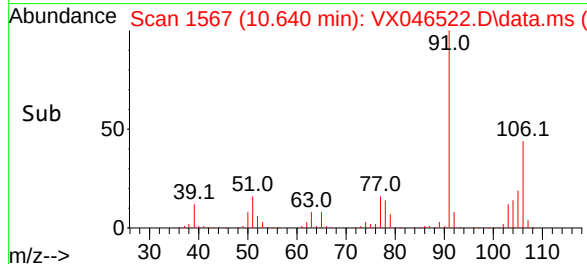
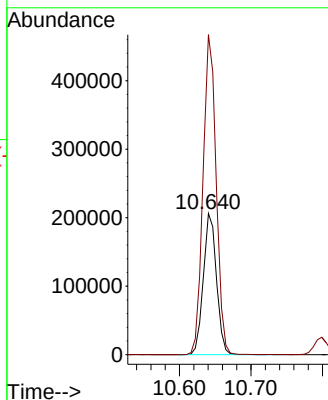
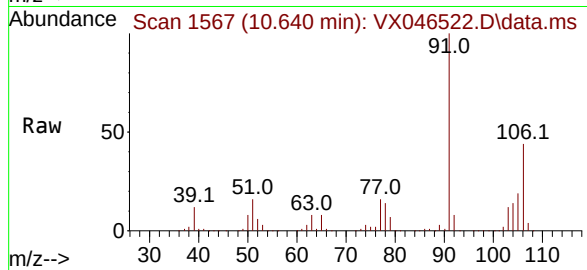
#69
o-Xylene
Concen: 150.865 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 263508
Ion Ratio Lower Upper
106 100
91 226.4 112.7 338.1

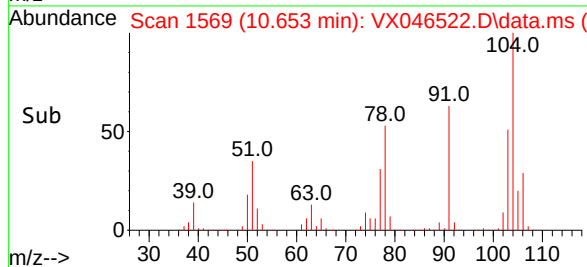
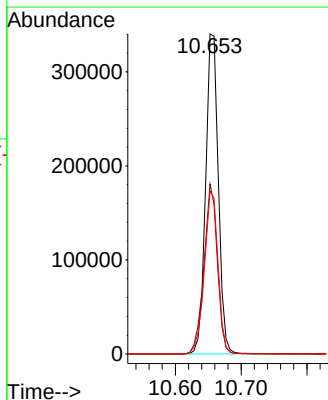
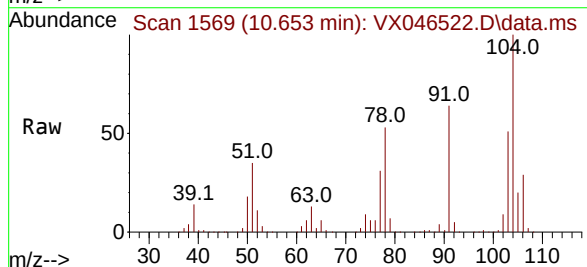
Manual Integrations
APPROVED

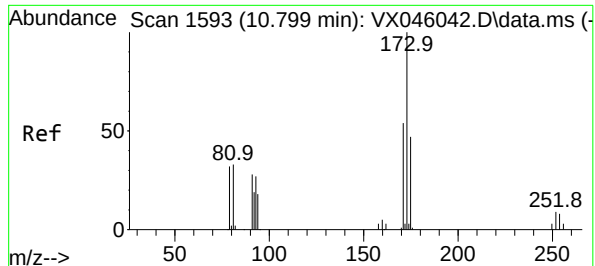
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#70
Styrene
Concen: 152.965 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.006 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

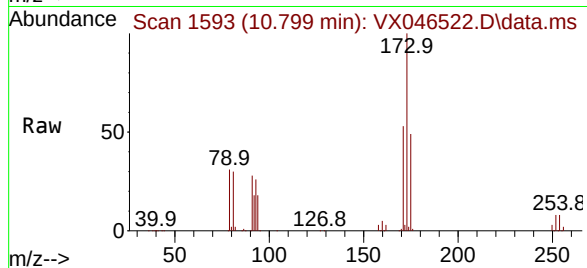
Tgt Ion:104 Resp: 457350
Ion Ratio Lower Upper
104 100
78 56.0 45.7 68.5
103 54.8 43.7 65.5





#71
Bromoform
Concen: 165.836 ug/l
RT: 10.799 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

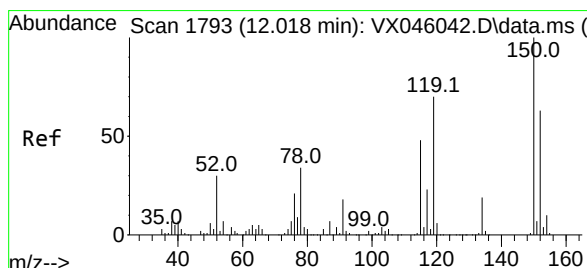
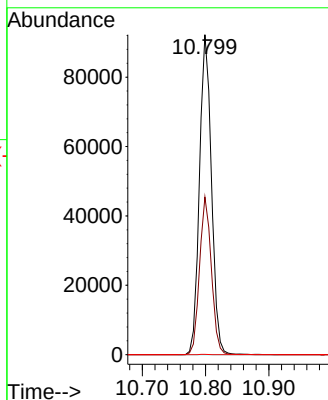
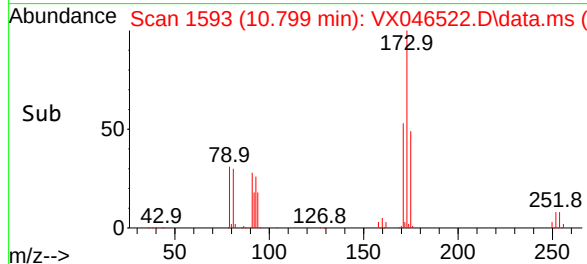
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:173 Resp: 12184
Ion Ratio Lower Upper
173 100
175 48.7 23.4 70.0
254 0.1 0.0 0.0

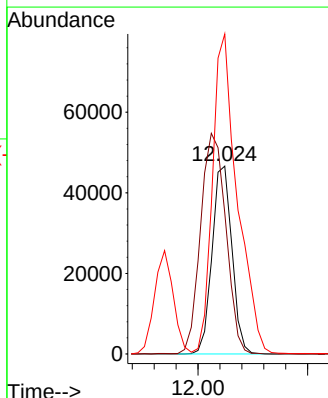
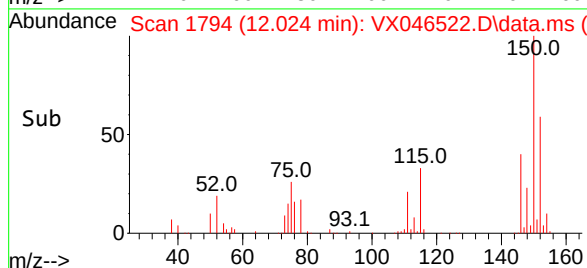
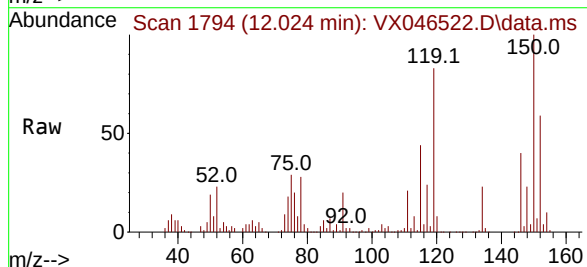
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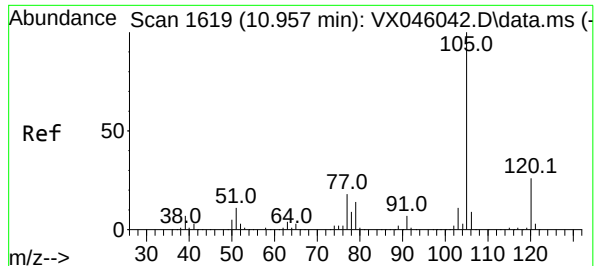
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion:152 Resp: 58605
Ion Ratio Lower Upper
152 100
115 149.8 46.9 140.7#
150 212.6 0.0 351.0





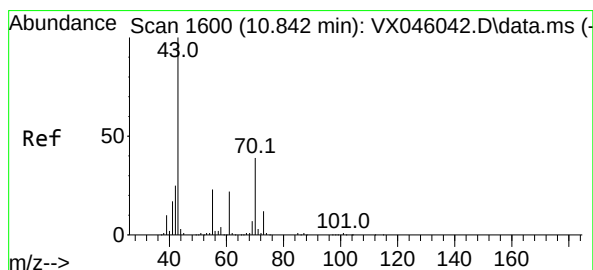
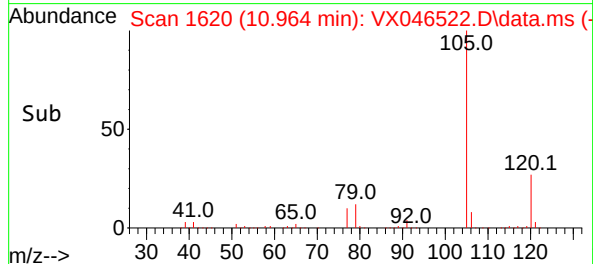
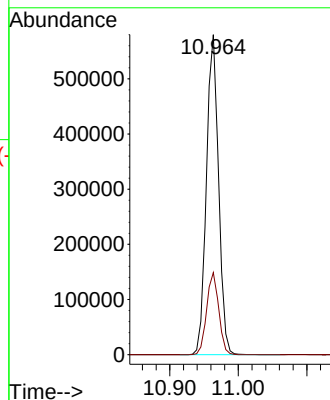
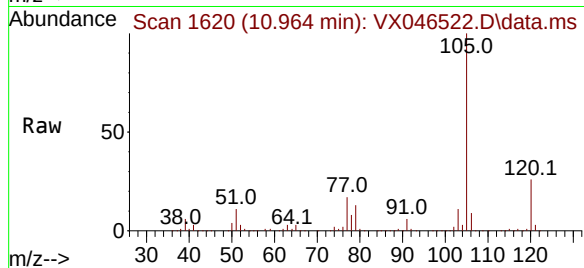
#73
Isopropylbenzene
Concen: 155.114 ug/l
RT: 10.964 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion:105 Resp: 714594
Ion Ratio Lower Upper
105 100
120 25.5 12.8 38.4

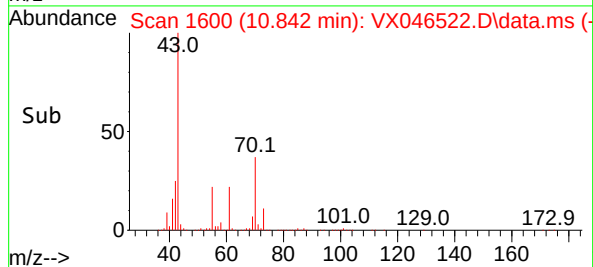
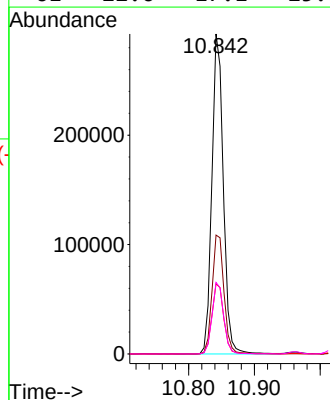
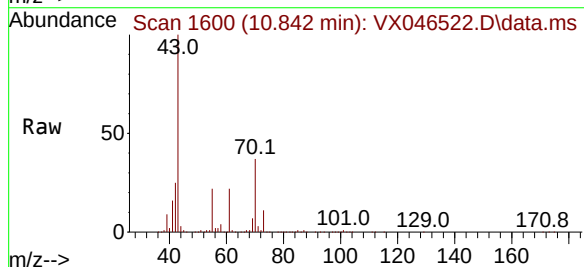
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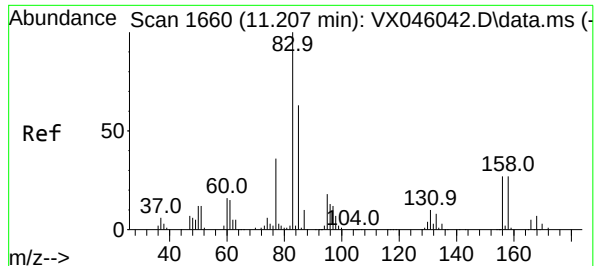
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#74
N-ethyl acetate
Concen: 174.965 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 43 Resp: 354967
Ion Ratio Lower Upper
43 100
70 38.6 30.9 46.3
55 22.7 18.7 28.1
61 22.6 17.1 25.7





#75

1,1,2,2-Tetrachloroethane

Concen: 155.706 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 22960

Ion Ratio Lower Upper

83 100

131 10.1 5.0 14.9

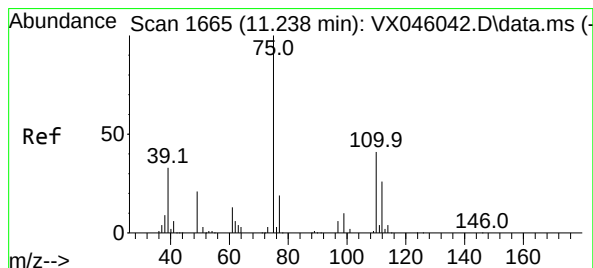
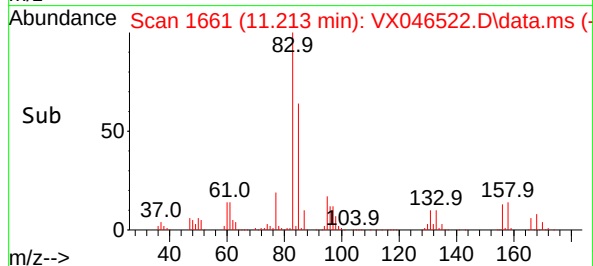
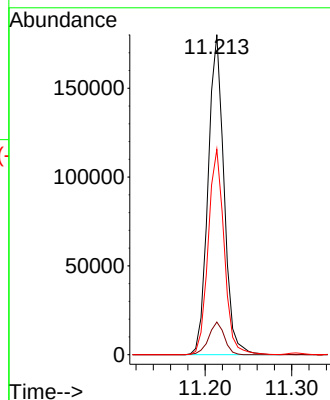
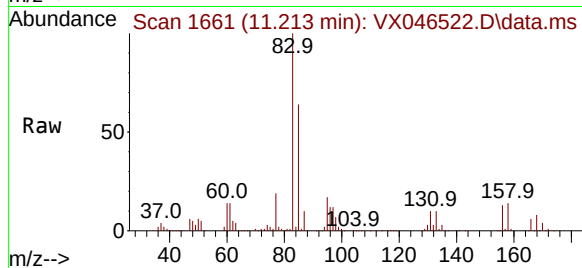
85 64.5 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#76

1,2,3-Trichloropropane

Concen: 152.081 ug/l m

RT: 11.238 min Scan# 1665

Delta R.T. 0.000 min

Lab File: VX046522.D

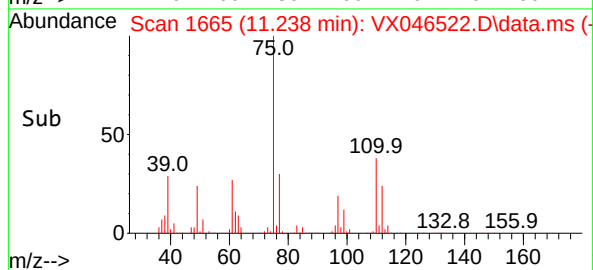
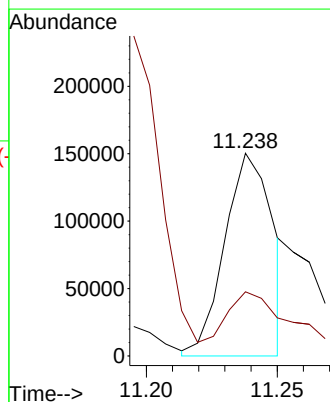
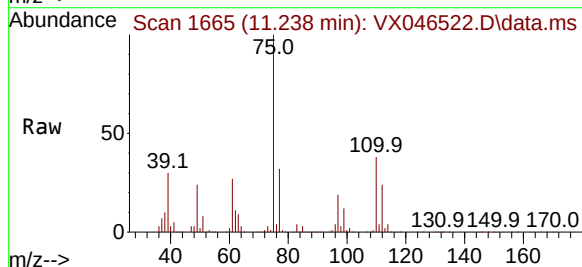
Acq: 06 Jun 2025 11:25

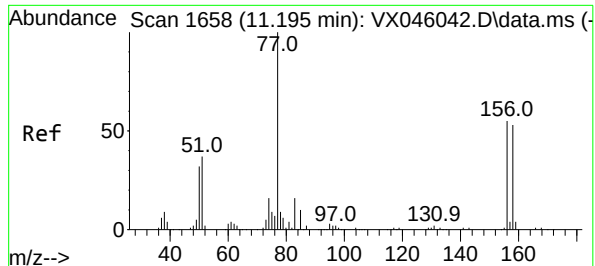
Tgt Ion: 75 Resp: 191913

Ion Ratio Lower Upper

75 100

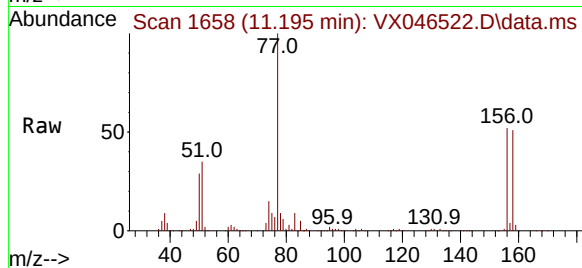
77 44.4 20.5 61.5





#77
Bromobenzene
Concen: 152.540 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

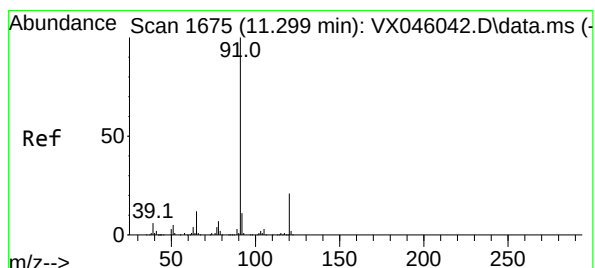
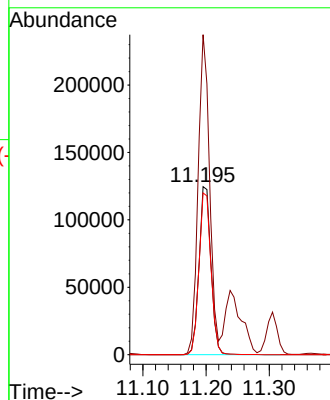
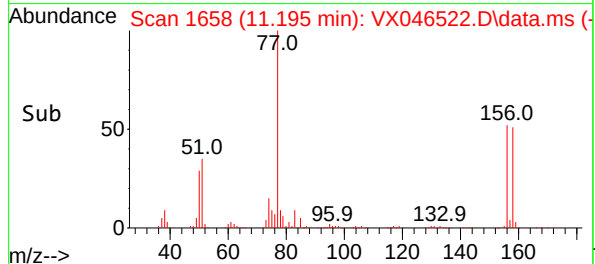
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:156 Resp: 16311
Ion Ratio Lower Upper
156 100
77 183.5 92.8 278.3
158 97.2 48.8 146.3

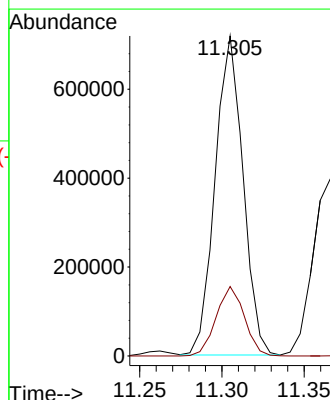
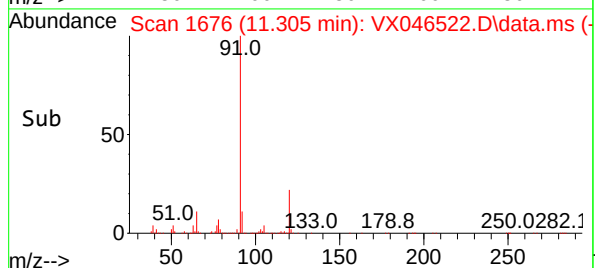
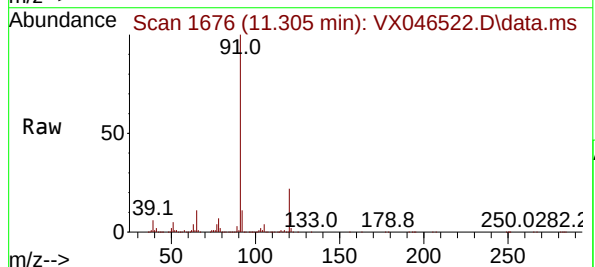
Manual Integrations
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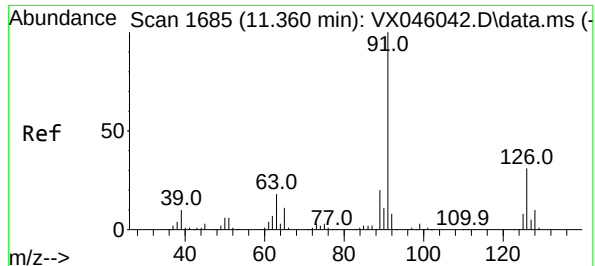
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#78
n-propylbenzene
Concen: 151.764 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 91 Resp: 846247
Ion Ratio Lower Upper
91 100
120 22.0 10.8 32.4





#79

2-Chlorotoluene

Concen: 149.837 ug/l

RT: 11.366 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 503830

Ion Ratio Lower Upper

91 100

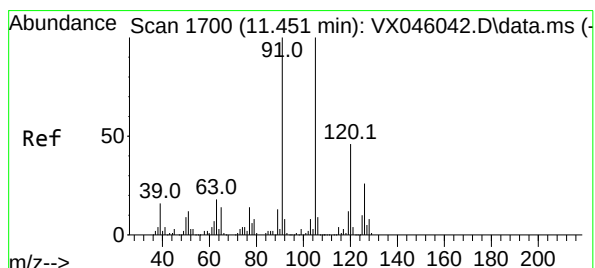
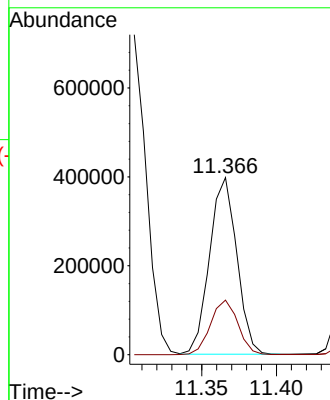
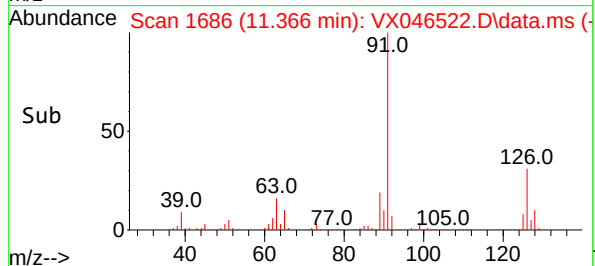
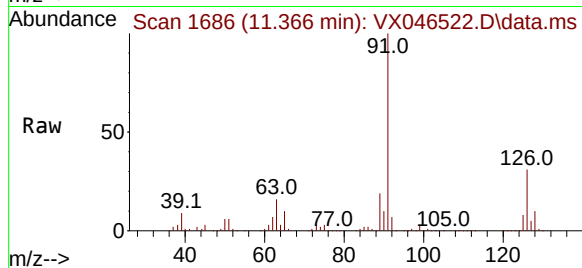
126 31.0 15.6 46.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#80

1,3,5-Trimethylbenzene

Concen: 151.781 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046522.D

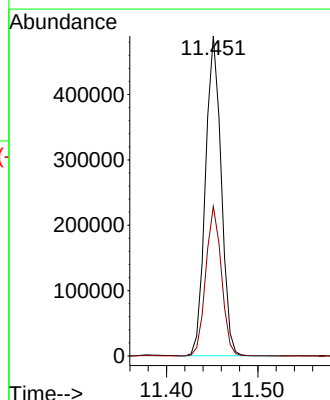
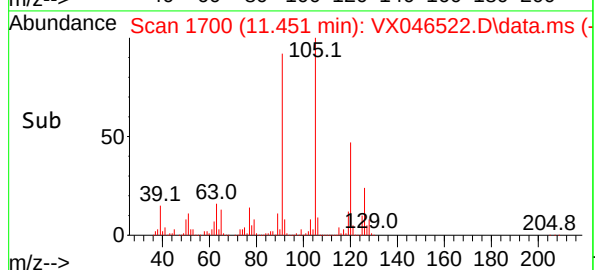
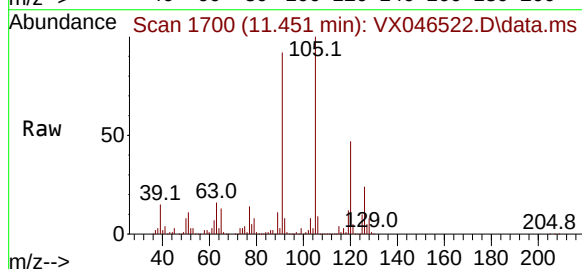
Acq: 06 Jun 2025 11:25

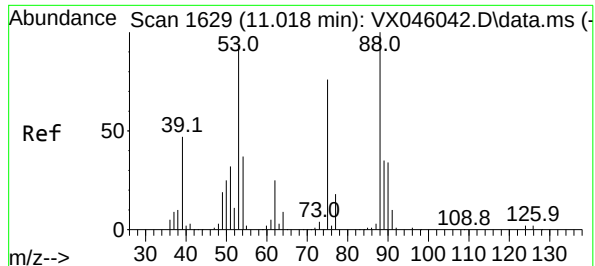
Tgt Ion:105 Resp: 582683

Ion Ratio Lower Upper

105 100

120 46.5 23.1 69.2





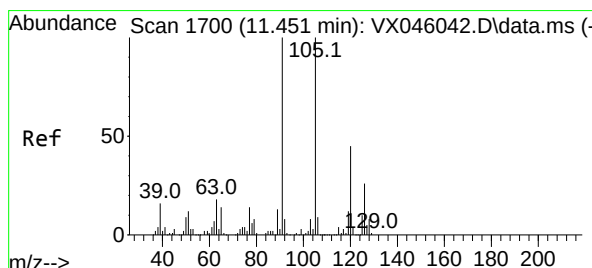
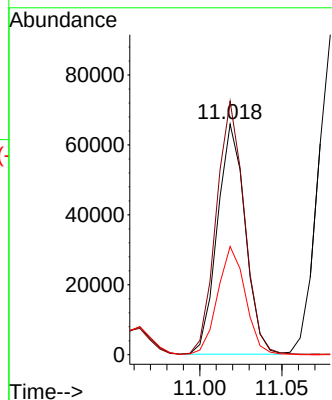
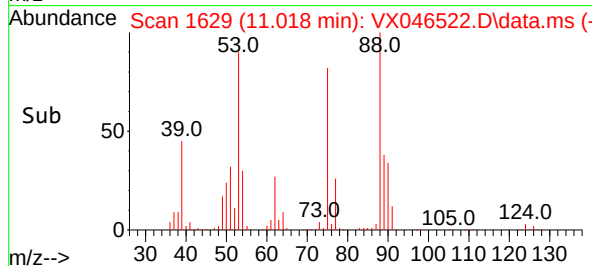
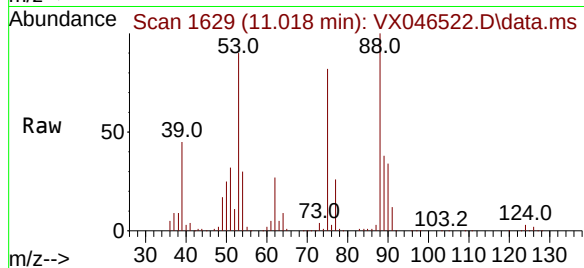
#81
trans-1,4-Dichloro-2-butene
Concen: 180.416 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 77638
Ion Ratio Lower Upper
75 100
53 111.5 100.5 150.7
89 46.7 37.0 55.6

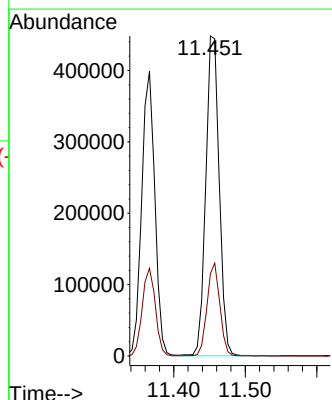
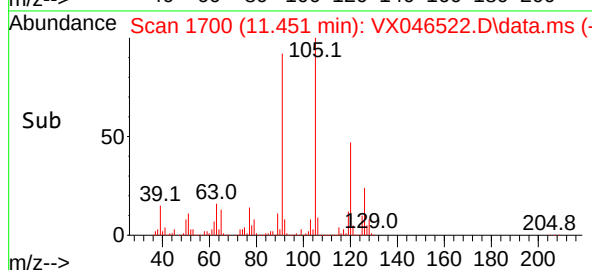
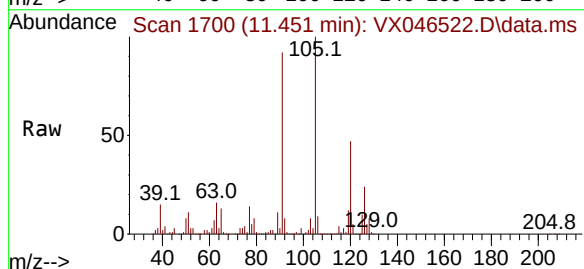
Manual Integrations
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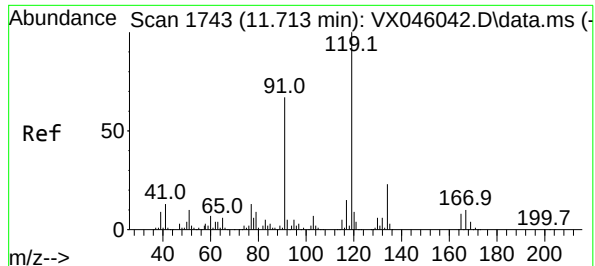
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#82
4-Chlorotoluene
Concen: 146.836 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 91 Resp: 585232
Ion Ratio Lower Upper
91 100
126 27.6 13.3 39.8





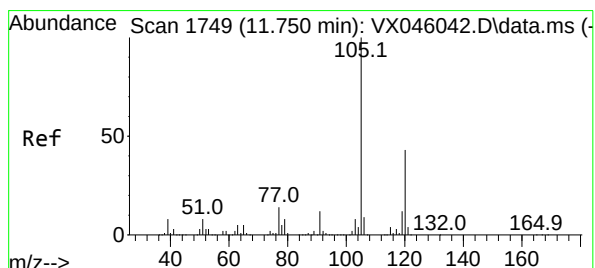
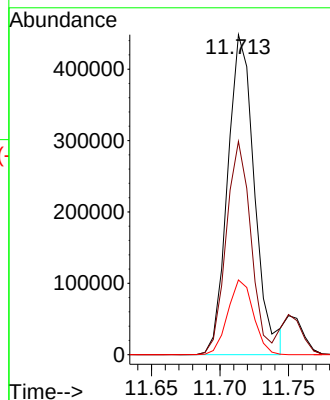
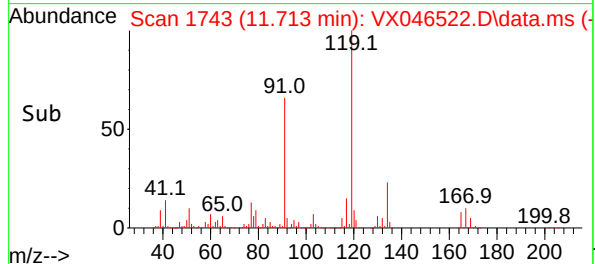
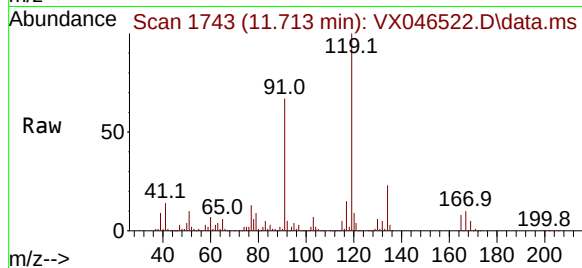
#83
tert-Butylbenzene
Concen: 156.630 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:119 Resp: 61211
Ion Ratio Lower Upper
119 100
91 61.5 32.9 98.7
134 22.3 11.4 34.1

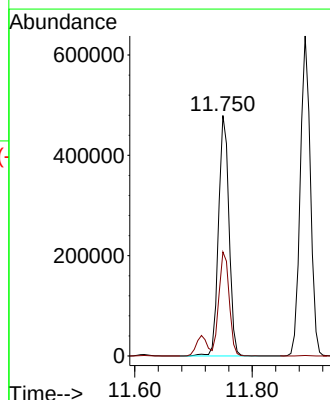
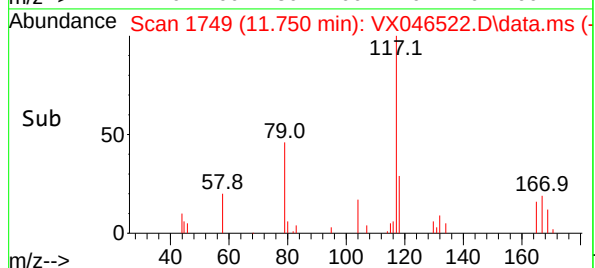
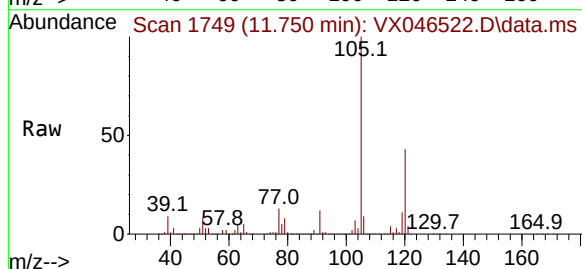
Manual Integrations
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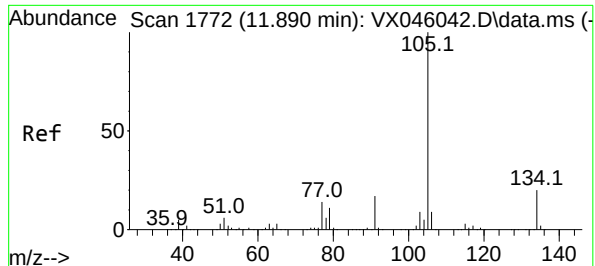
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#84
1,2,4-Trimethylbenzene
Concen: 151.929 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion:105 Resp: 590035
Ion Ratio Lower Upper
105 100
120 42.5 21.2 63.6





#85

sec-Butylbenzene

Concen: 151.730 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:105 Resp: 761909

Ion Ratio Lower Upper

105 100

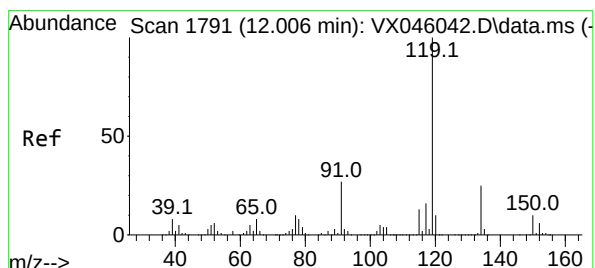
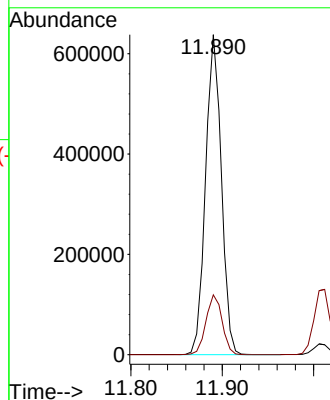
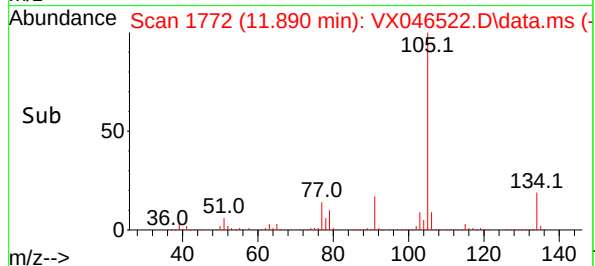
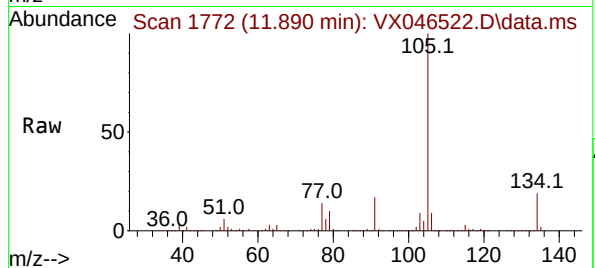
134 19.2 9.7 29.1

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#86

p-Isopropyltoluene

Concen: 150.146 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

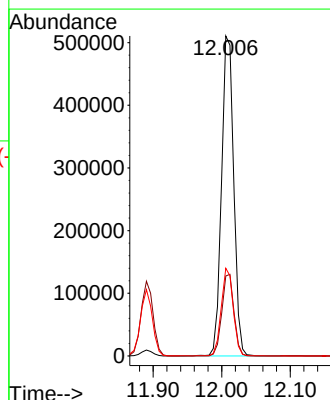
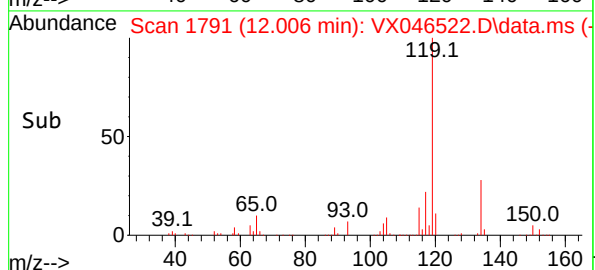
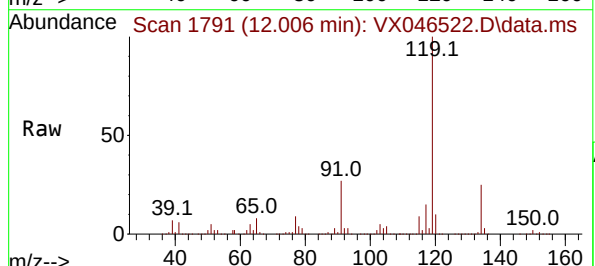
Tgt Ion:119 Resp: 628539

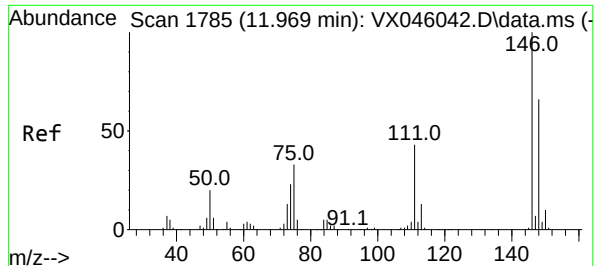
Ion Ratio Lower Upper

119 100

134 25.4 12.5 37.5

91 26.7 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 147.362 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:146 Resp: 305990

Ion Ratio Lower Upper

146 100

111 44.5 22.1 66.3

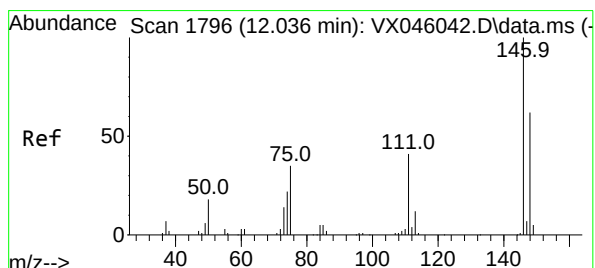
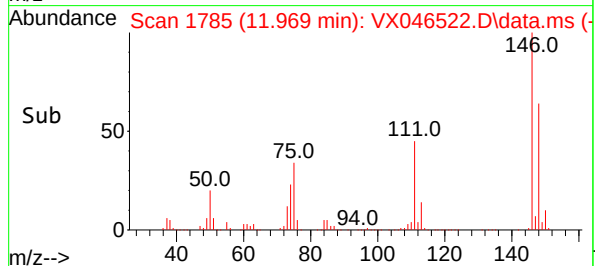
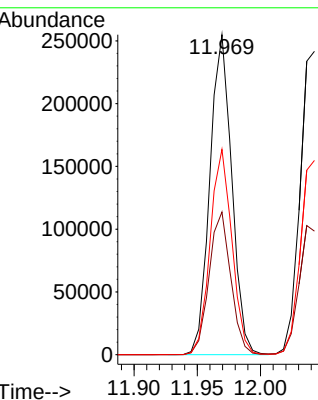
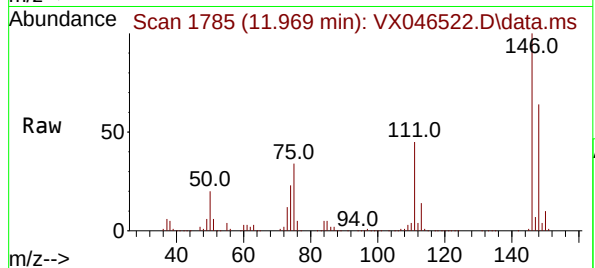
148 63.9 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 143.149 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

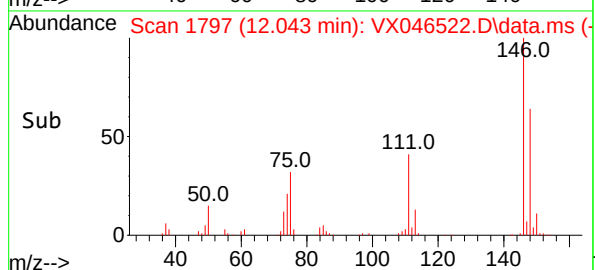
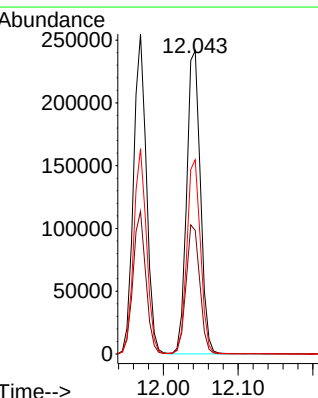
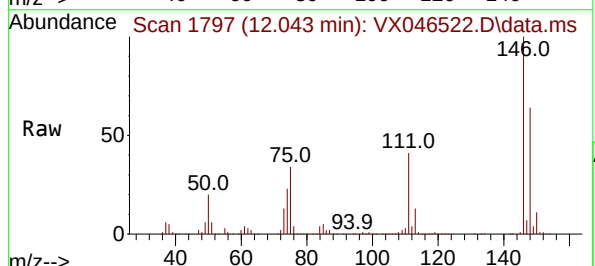
Tgt Ion:146 Resp: 308002

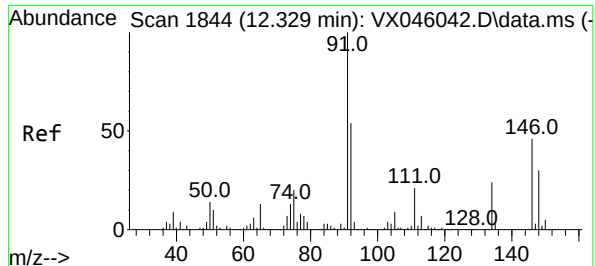
Ion Ratio Lower Upper

146 100

111 42.2 21.3 63.9

148 63.2 31.9 95.5





#89

n-Butylbenzene

Concen: 149.115 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 613010

Ion Ratio Lower Upper

91 100

92 54.1 26.9 80.7

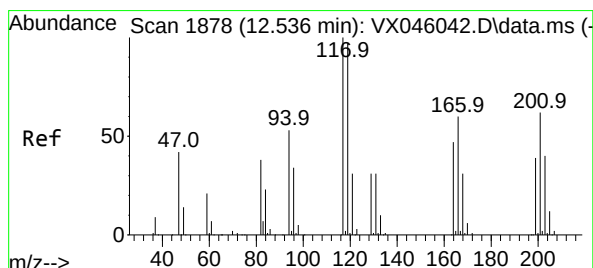
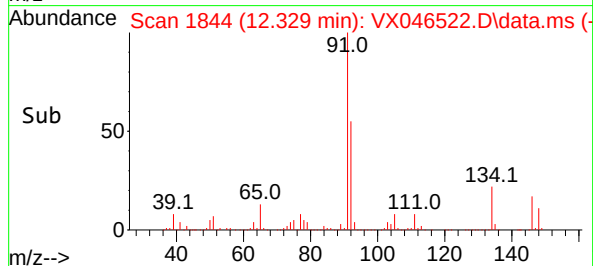
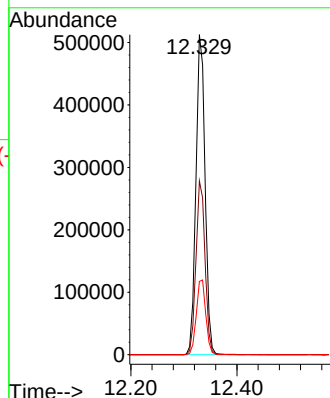
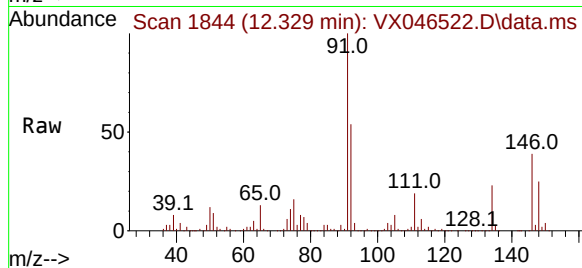
134 24.1 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 161.336 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046522.D

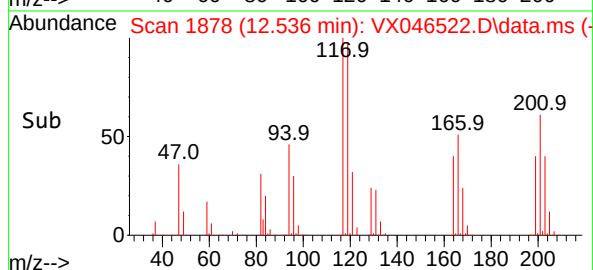
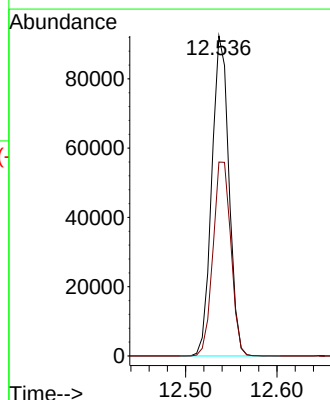
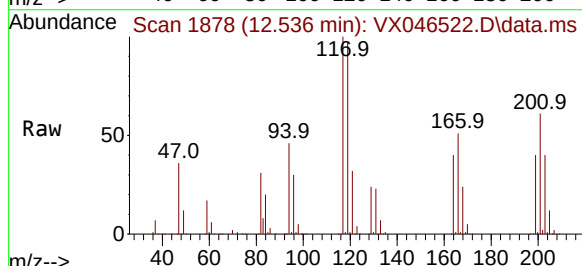
Acq: 06 Jun 2025 11:25

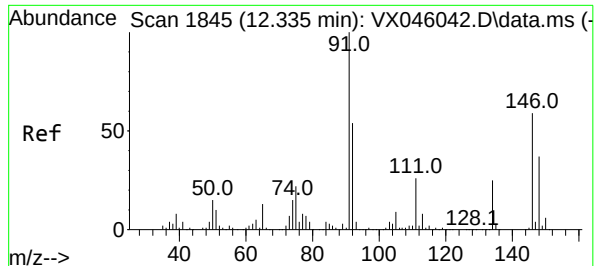
Tgt Ion:117 Resp: 120040

Ion Ratio Lower Upper

117 100

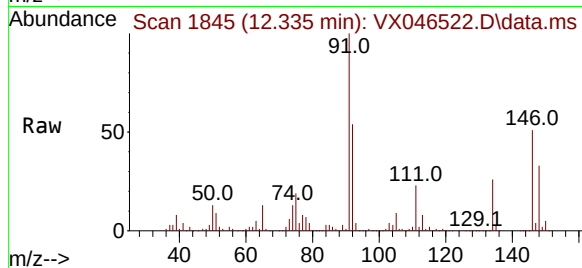
201 63.4 31.6 94.7





#91
1,2-Dichlorobenzene
Concen: 148.701 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

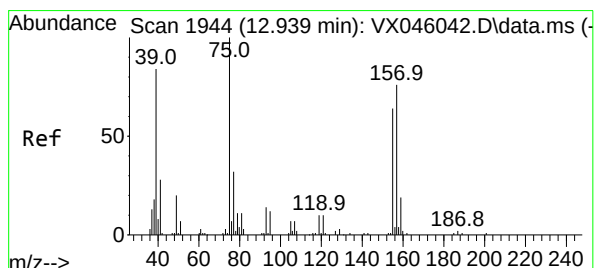
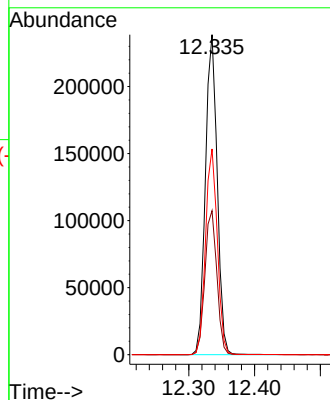
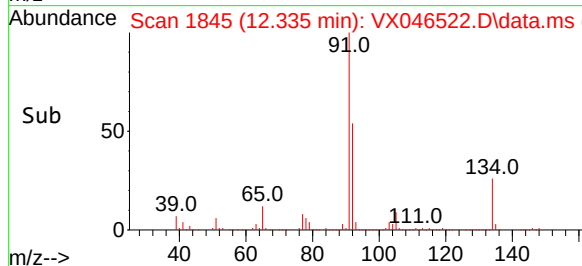
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:146 Resp: 29804
Ion Ratio Lower Upper
146 100
111 45.7 22.4 67.3
148 64.4 31.6 94.8

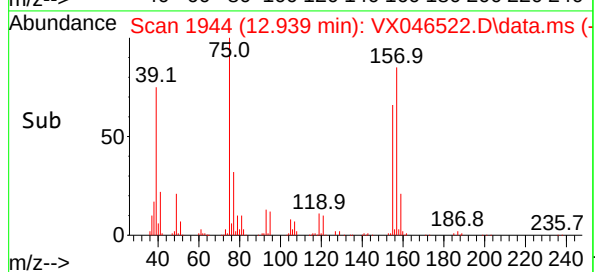
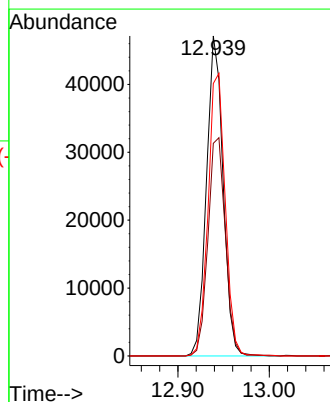
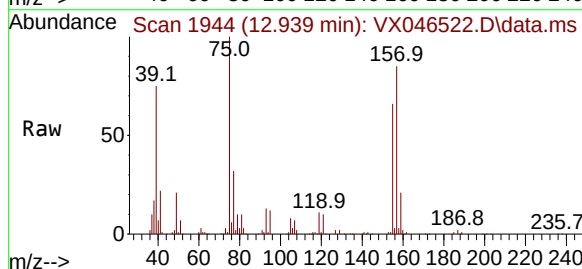
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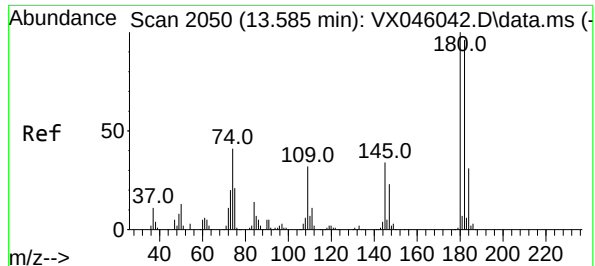
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 179.177 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 75 Resp: 59166
Ion Ratio Lower Upper
75 100
155 71.8 34.9 104.8
157 91.3 43.8 131.4





#93

1,2,4-Trichlorobenzene

Concen: 153.577 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

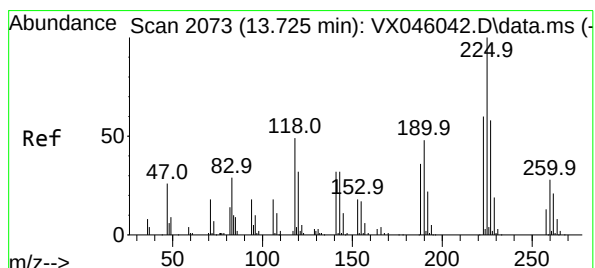
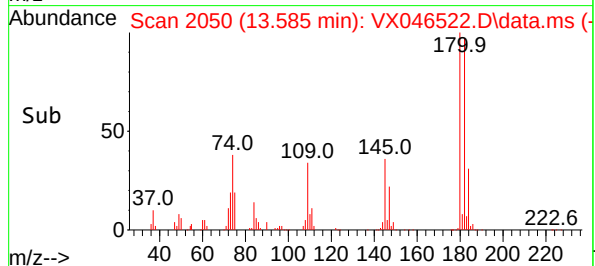
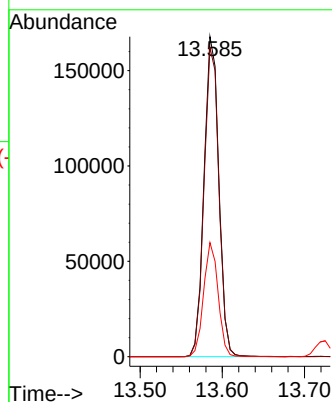
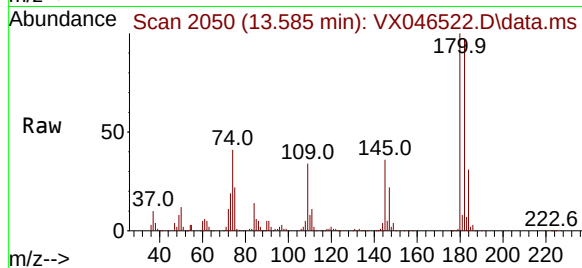
ClientSampleId :

VSTDIC150

Tgt Ion:	180	Resp:	20998
Ion Ratio	Lower	Upper	
180	100		
182	97.0	47.9	143.8
145	35.0	17.1	51.2

Manual Integrations
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Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#94

Hexachlorobutadiene

Concen: 145.277 ug/l

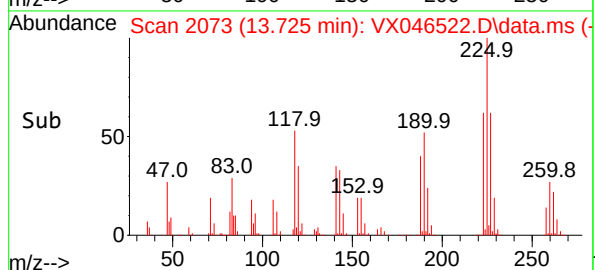
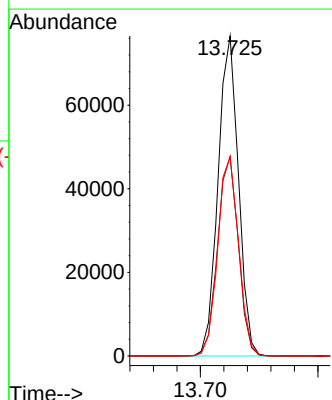
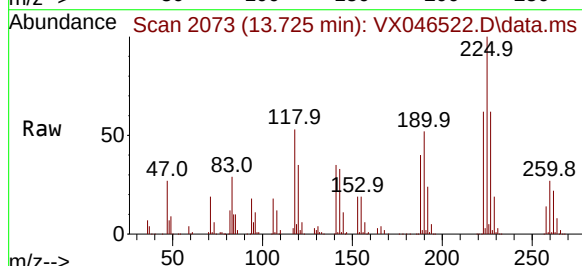
RT: 13.725 min Scan# 2073

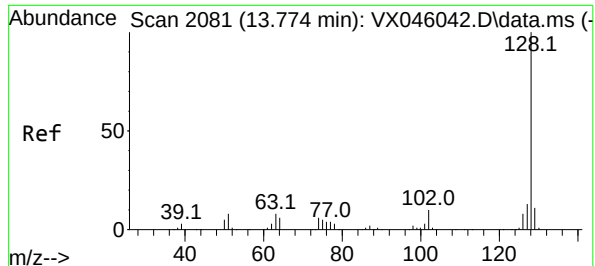
Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Tgt Ion:	225	Resp:	92311
Ion Ratio	Lower	Upper	
225	100		
223	63.2	30.8	92.4
227	63.5	30.9	92.7





#95

Naphthalene

Concen: 170.506 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:128 Resp: 739300

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

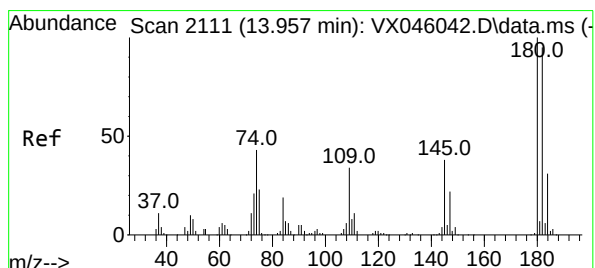
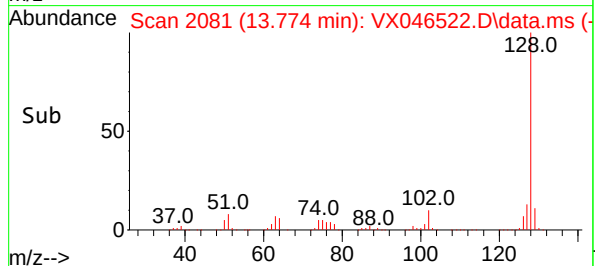
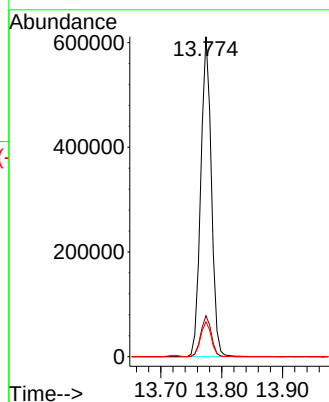
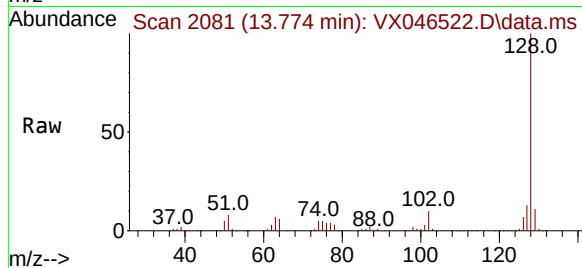
129 11.0 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#96

1,2,3-Trichlorobenzene

Concen: 153.606 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

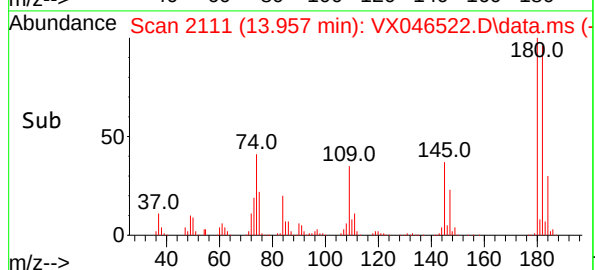
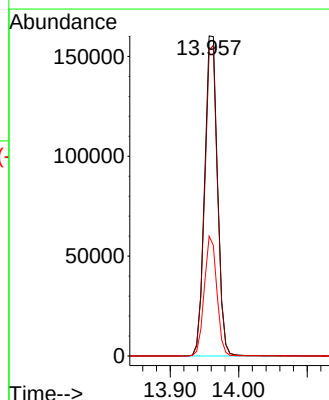
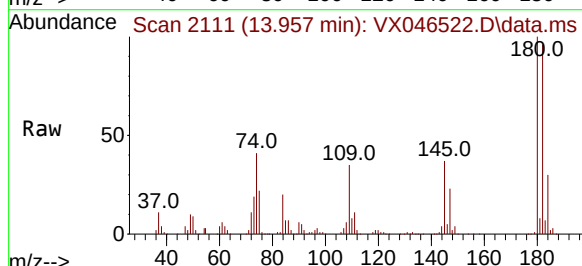
Tgt Ion:180 Resp: 210596

Ion Ratio Lower Upper

180 100

182 96.1 47.8 143.3

145 36.4 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046524.D
 Acq On : 06 Jun 2025 12:57
 Operator : JC/MD
 Sample : VSTDIC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC001

Manual Integrations APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:43:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	92377	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	161412	50.000	ug/l	-0.01
63) Chlorobenzene-d5	10.055	117	144029	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	72344	50.000	ug/l	0.00

System Monitoring Compounds

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

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.184	85	1548	1.207	ug/l	89
3) Chloromethane	1.306	50	1317	1.128	ug/l	95
4) Vinyl Chloride	1.386	62	1255	1.078	ug/l #	83
6) Chloroethane	1.697	64	940	1.245	ug/l #	76
7) Trichlorofluoromethane	1.904	101	1882	0.977	ug/l	95
8) Diethyl Ether	2.136	74	762	1.120	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	1288	1.062	ug/l	95
12) 1,1-Dichloroethene	2.337	96	1174	1.070	ug/l	78
14) Allyl chloride	2.678	41	2371	1.101	ug/l	94
15) Acrylonitrile	3.080	53	3158	4.580	ug/l	90
16) Acetone	2.392	43	5228	12.546	ug/l	99
17) Carbon Disulfide	2.526	76	4273	2.030	ug/l	100
18) Methyl Acetate	2.721	43	1631	0.833	ug/l #	90
19) Methyl tert-butyl Ether	3.123	73	3460	0.902	ug/l	92
20) Methylene Chloride	2.806	84	1604	1.217	ug/l	93
21) trans-1,2-Dichloroethene	3.105	96	1451	1.250	ug/l	94
22) Diisopropyl ether	3.763	45	3727	0.878	ug/l #	1
23) Vinyl Acetate	3.739	43	15142	4.618	ug/l #	93
24) 1,1-Dichloroethane	3.617	63	2366	1.000	ug/l #	89
25) 2-Butanone	4.598	43	4468	4.884	ug/l #	87
26) 2,2-Dichloropropane	4.483	77	1663	0.947	ug/l	86
27) cis-1,2-Dichloroethene	4.507	96	1600	1.120	ug/l	94
28) Bromochloromethane	4.928	49	1200	1.063	ug/l #	89
29) Tetrahydrofuran	5.037	42	2828	4.895	ug/l	89
30) Chloroform	5.098	83	2492	1.005	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	2090	0.985	ug/l #	53
36) 1,1-Dichloropropene	5.702	75	2130	1.256	ug/l #	70
37) Ethyl Acetate	4.739	43	1146m	0.693	ug/l	
38) Carbon Tetrachloride	5.696	117	2113	1.113	ug/l #	65
39) Methylcyclohexane	7.391	83	2339	1.169	ug/l #	72
40) Benzene	6.043	78	4913	1.029	ug/l	99
41) Methacrylonitrile	4.952	41	901	0.877	ug/l #	43
42) 1,2-Dichloroethane	6.104	62	1955	0.984	ug/l	82
43) Isopropyl Acetate	6.348	43	2493	0.864	ug/l #	92
44) Trichloroethene	7.141	130	1537	1.267	ug/l	91
45) 1,2-Dichloropropane	7.433	63	1158	0.940	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046524.D
 Acq On : 06 Jun 2025 12:57
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Quant Time: Jun 06 16:43:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

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Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.592	93	938	1.012	ug/l	92
47) Bromodichloromethane	7.830	83	1724	0.905	ug/l #	91
48) Methyl methacrylate	7.714	41	1276	0.860	ug/l	94
49) 1,4-Dioxane	7.677	88	286	14.408	ug/l #	79
51) 4-Methyl-2-Pentanone	8.573	43	7935	4.328	ug/l	98
52) Toluene	8.720	92	3027	1.032	ug/l	94
53) t-1,3-Dichloropropene	8.988	75	1550	0.907	ug/l	94
54) cis-1,3-Dichloropropene	8.378	75	1831	0.964	ug/l	91
55) 1,1,2-Trichloroethane	9.159	97	1069	0.908	ug/l #	82
56) Ethyl methacrylate	9.122	69	1471	0.812	ug/l	94
57) 1,3-Dichloropropane	9.317	76	2109	1.014	ug/l	95
58) 2-Chloroethyl Vinyl ether	8.250	63	4480	4.540	ug/l	97
59) 2-Hexanone	9.439	43	5937	4.515	ug/l	91
60) Dibromochloromethane	9.524	129	1307	0.944	ug/l	89
61) 1,2-Dibromoethane	9.616	107	1355	1.105	ug/l	89
64) Tetrachloroethene	9.274	164	1182	1.227	ug/l	90
65) Chlorobenzene	10.079	112	3905	1.153	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.165	131	1042	0.910	ug/l #	59
67) Ethyl Benzene	10.195	91	6238	1.055	ug/l #	89
68) m/p-Xylenes	10.305	106	4454	2.076	ug/l	94
69) o-Xylene	10.640	106	2072	0.999	ug/l	96
70) Styrene	10.658	104	3482	0.980	ug/l	95
71) Bromoform	10.805	173	824	0.944	ug/l #	95
73) Isopropylbenzene	10.963	105	5637	0.991	ug/l	99
74) N-amyl acetate	10.847	43	2060	0.823	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.213	83	1661	0.912	ug/l	86
76) 1,2,3-Trichloropropane	11.244	75	1578m	1.013	ug/l	
77) Bromobenzene	11.207	156	1386	1.050	ug/l	94
78) n-propylbenzene	11.305	91	7308	1.062	ug/l	92
79) 2-Chlorotoluene	11.366	91	4466	1.076	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	4806	1.014	ug/l	96
82) 4-Chlorotoluene	11.457	91	5603	1.139	ug/l	98
83) tert-Butylbenzene	11.713	119	4751	0.985	ug/l	97
84) 1,2,4-Trimethylbenzene	11.756	105	4928	1.028	ug/l	99
85) sec-Butylbenzene	11.890	105	6450	1.041	ug/l	99
86) p-Isopropyltoluene	12.012	119	5657	1.095	ug/l	96
87) 1,3-Dichlorobenzene	11.969	146	3045	1.188	ug/l	96
88) 1,4-Dichlorobenzene	12.036	146	3503m	1.319	ug/l	
89) n-Butylbenzene	12.335	91	6072	1.197	ug/l	97
90) Hexachloroethane	12.536	117	987	1.075	ug/l	88
91) 1,2-Dichlorobenzene	12.335	146	2761	1.116	ug/l	94
92) 1,2-Dibromo-3-Chloropr...	12.945	75	345	0.846	ug/l	84
93) 1,2,4-Trichlorobenzene	13.591	180	2189	1.297	ug/l	92
94) Hexachlorobutadiene	13.725	225	1006	1.283	ug/l	97
95) Naphthalene	13.780	128	5474	1.023	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	2171	1.283	ug/l	96

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

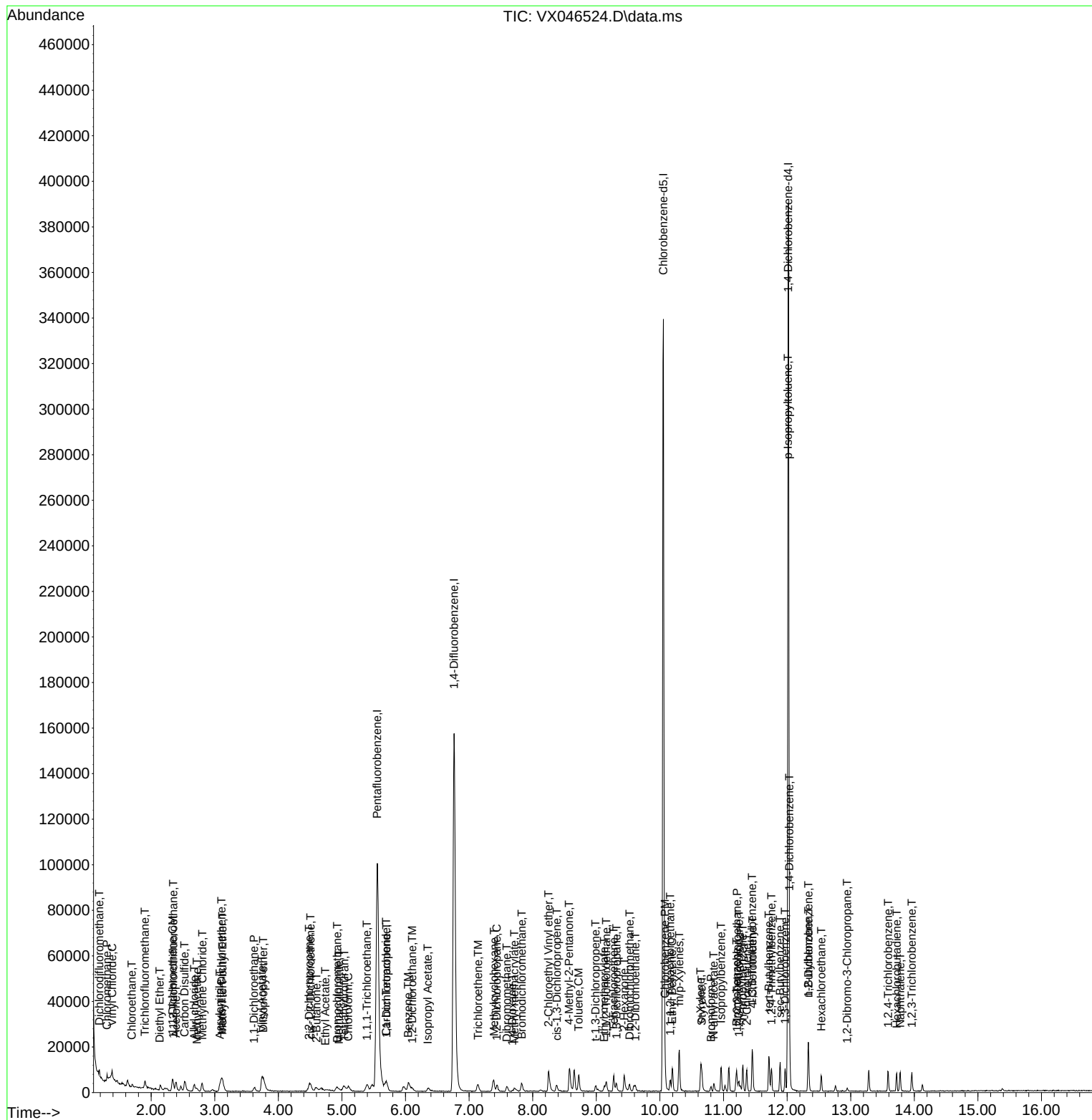
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046524.D
Acq On : 06 Jun 2025 12:57
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

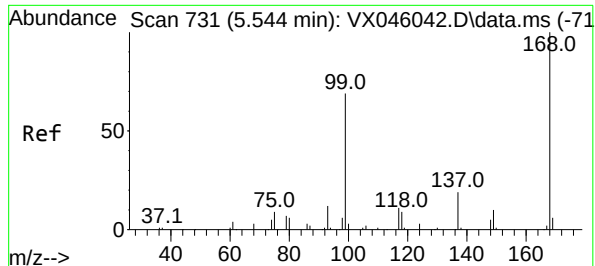
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Jun 06 16:43:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:38:39 2025
Response via : Initial Calibration

Manual Integrations
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Reviewed By :John Carlone 06/09/2025
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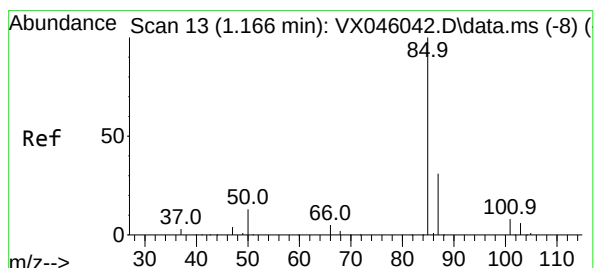
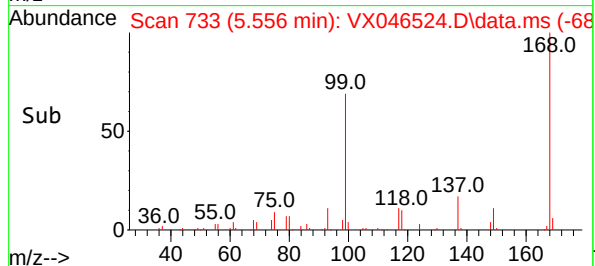
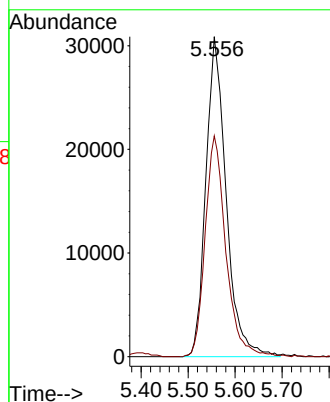
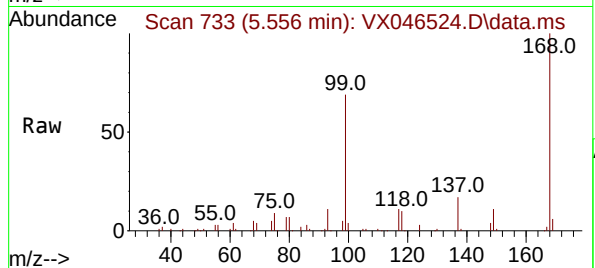
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 9237
Ion Ratio Lower Upper
168 100
99 69.0 54.9 82.3

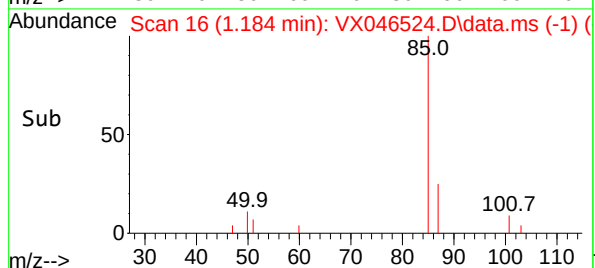
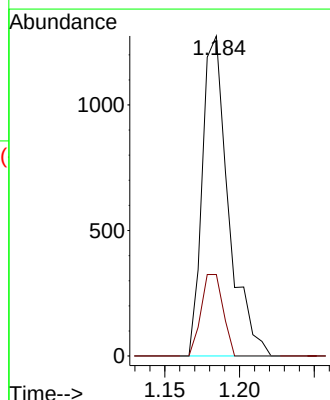
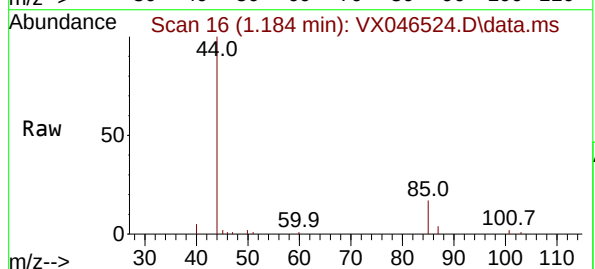
Manual Integrations
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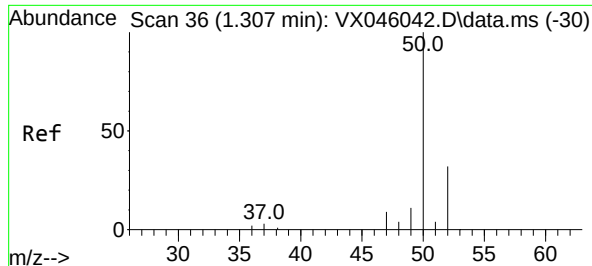
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 1.207 ug/l
RT: 1.184 min Scan# 16
Delta R.T. -0.001 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 85 Resp: 1548
Ion Ratio Lower Upper
85 100
87 25.5 15.7 47.1





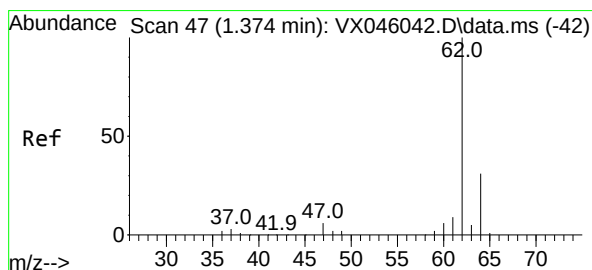
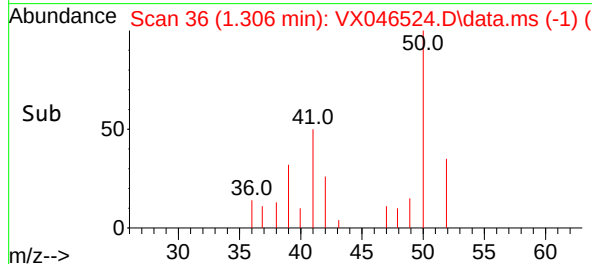
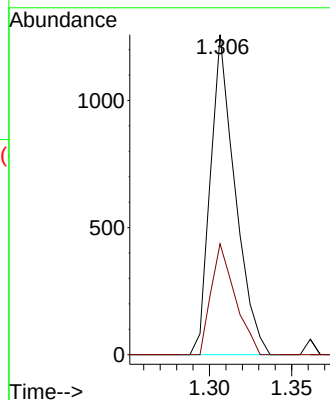
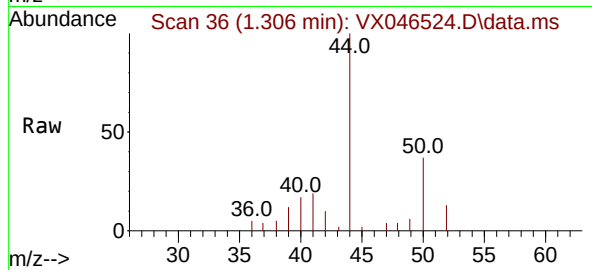
#3
Chloromethane
Concen: 1.128 ug/l
RT: 1.306 min Scan# 30
Delta R.T. -0.001 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 131
Ion Ratio Lower Upper
50 100
52 34.6 25.4 38.2

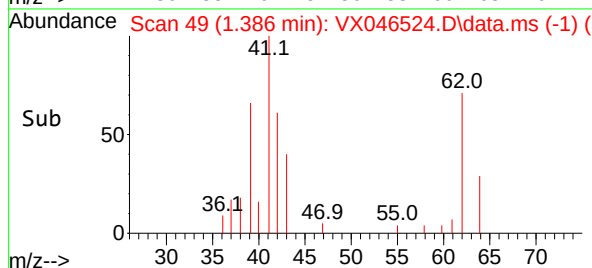
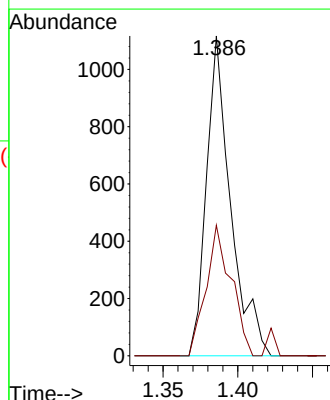
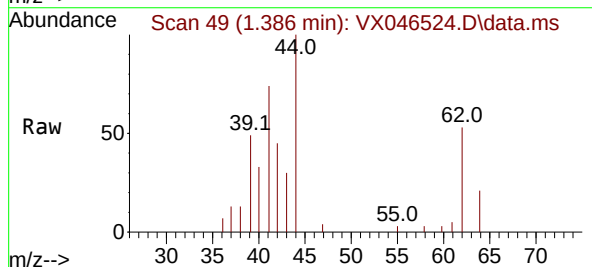
Manual Integrations
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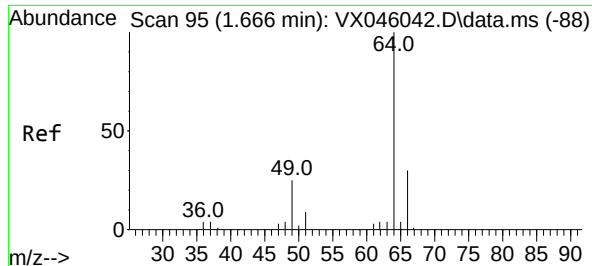
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 1.078 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

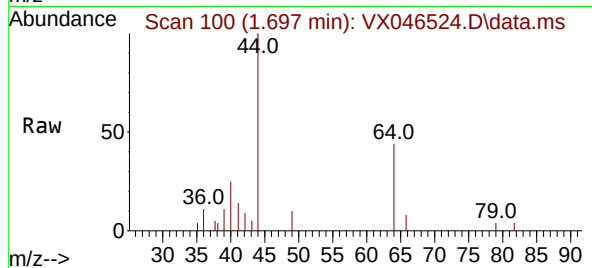
Tgt Ion: 62 Resp: 1255
Ion Ratio Lower Upper
62 100
64 40.8 25.2 37.8#





#6
Chloroethane
Concen: 1.245 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

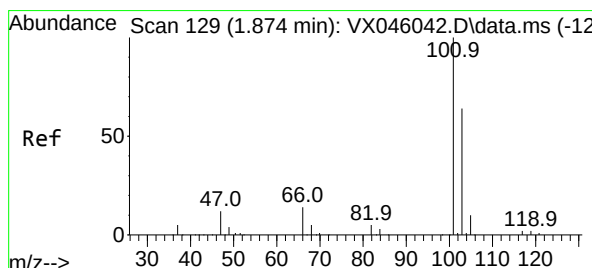
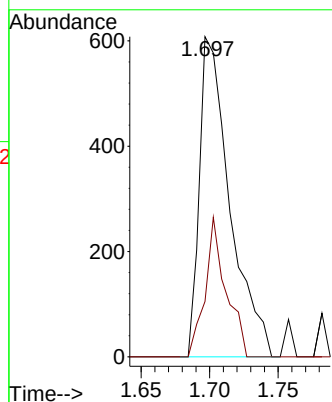
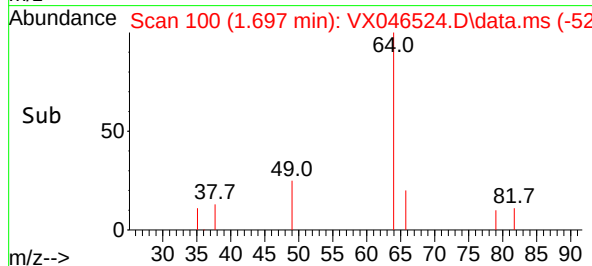
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



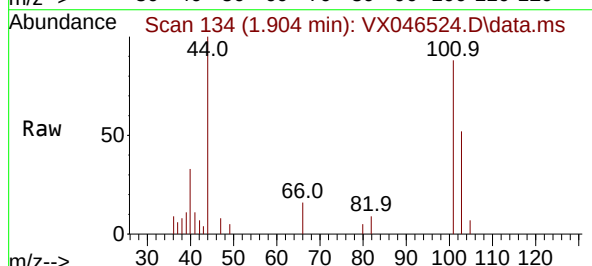
Tgt Ion: 64 Resp: 940
Ion Ratio Lower Upper
64 100
66 17.3 24.3 36.5

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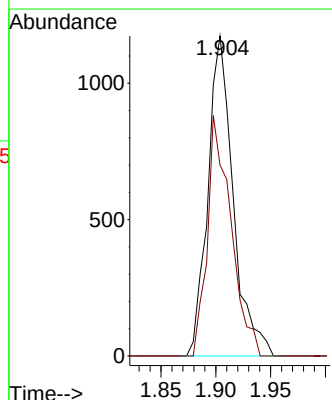
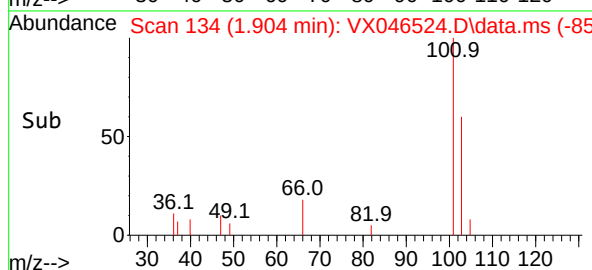
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

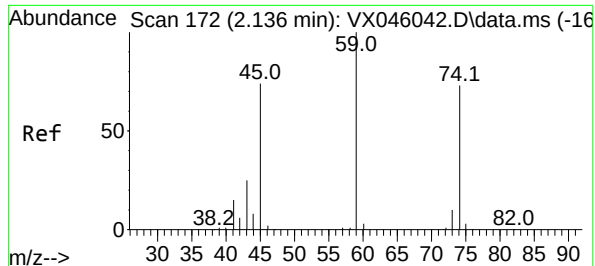


#7
Trichlorofluoromethane
Concen: 0.977 ug/l
RT: 1.904 min Scan# 134
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57



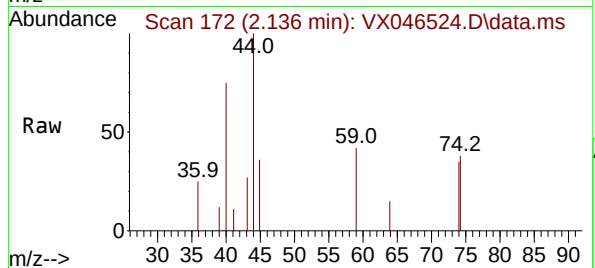
Tgt Ion:101 Resp: 1882
Ion Ratio Lower Upper
101 100
103 59.7 51.0 76.4





#8
Diethyl Ether
Concen: 1.120 ug/l
RT: 2.136 min Scan# 11
Delta R.T. -0.018 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

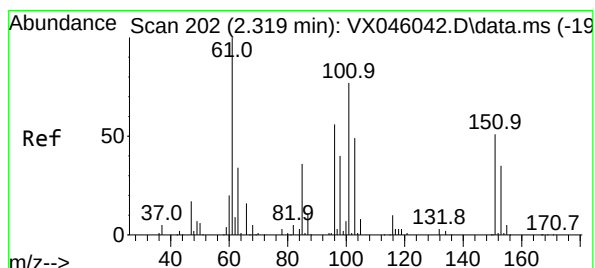
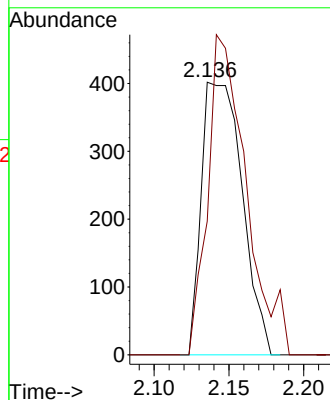
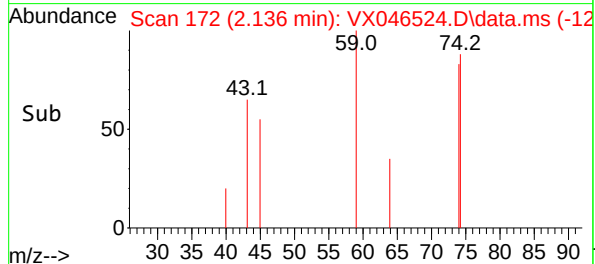
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



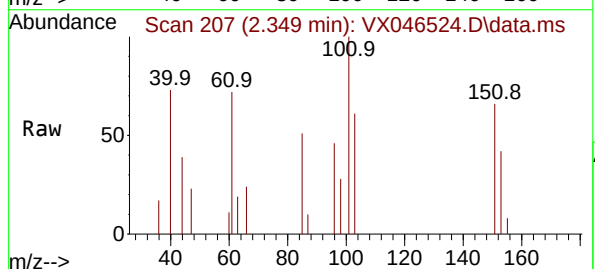
Tgt Ion: 74 Resp: 762
Ion Ratio Lower Upper
74 100
45 110.4 54.9 164.8

Manual Integrations
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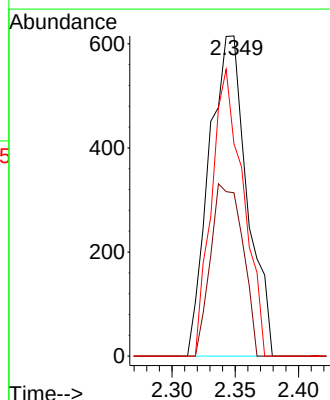
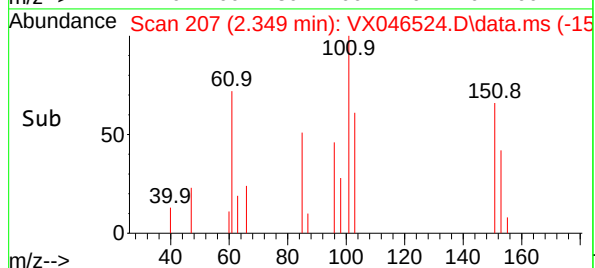
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

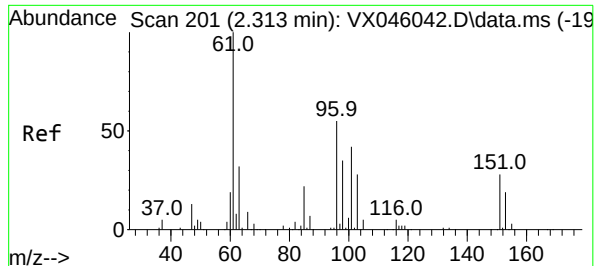


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.062 ug/l
RT: 2.349 min Scan# 207
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57



Tgt Ion:101 Resp: 1288
Ion Ratio Lower Upper
101 100
85 45.5 38.6 58.0
151 74.2 55.2 82.8





#12

1,1-Dichloroethene

Concen: 1.070 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

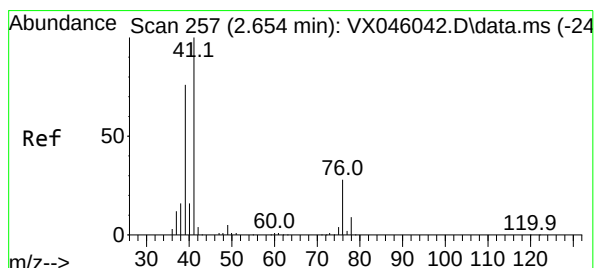
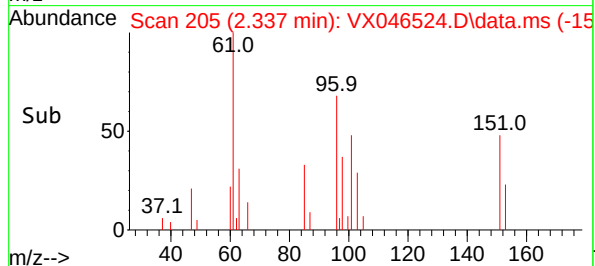
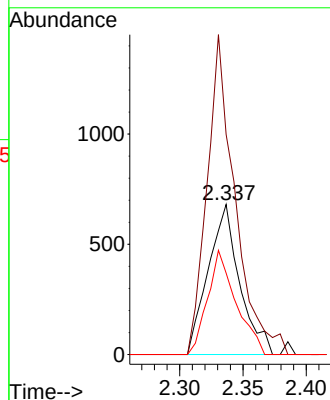
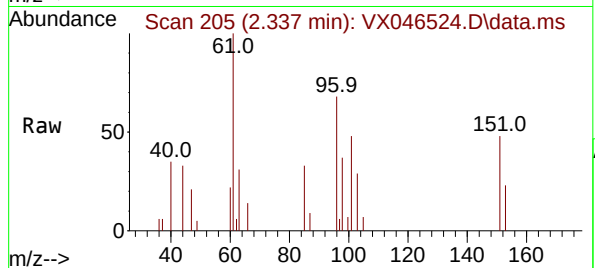
Tgt Ion:	96	Resp:	1174
Ion	Ratio	Lower	Upper
96	100		
61	146.7	146.2	219.2
98	54.3	51.0	76.6

Manual Integrations

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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 1.101 ug/l

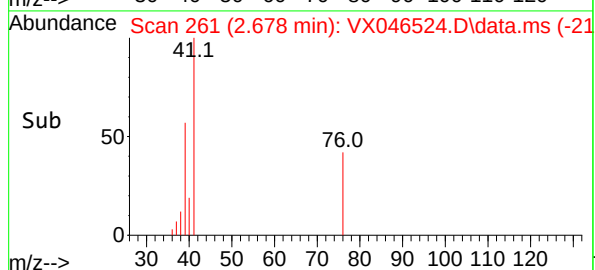
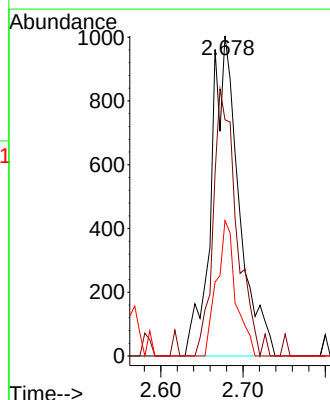
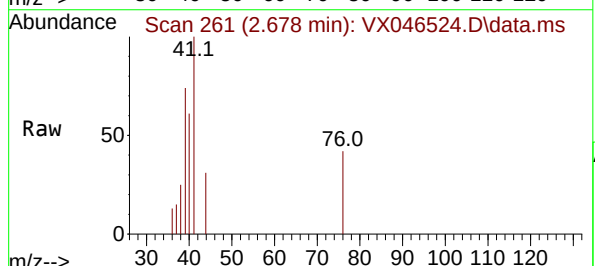
RT: 2.678 min Scan# 261

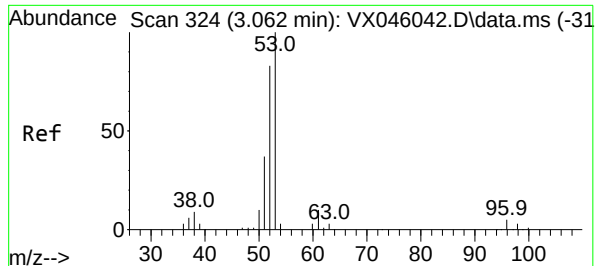
Delta R.T. -0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion:	41	Resp:	2371
Ion	Ratio	Lower	Upper
41	100		
39	70.3	60.6	90.8
76	28.8	24.9	37.3





#15

Acrylonitrile

Concen: 4.580 ug/l

RT: 3.080 min Scan# 315

Delta R.T. -0.001 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

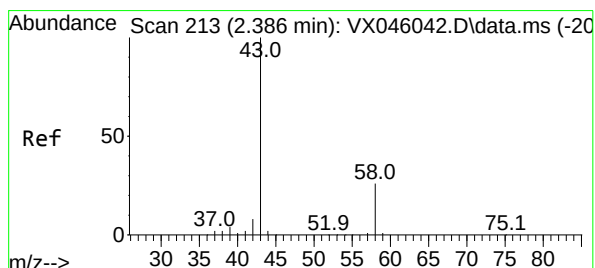
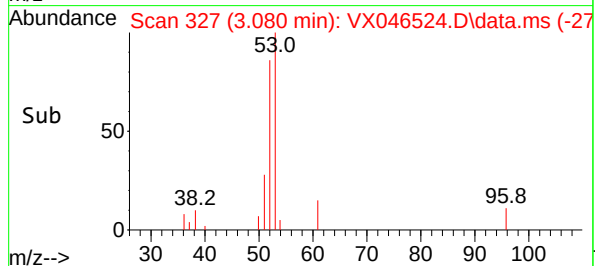
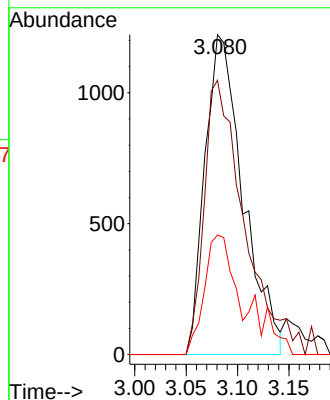
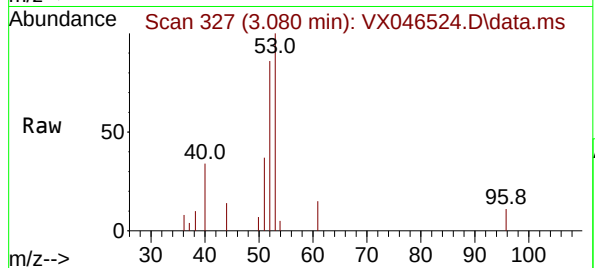
Tgt Ion:	53	Resp:	315
Ion	Ratio	Lower	Upper
53	100		
52	90.1	65.3	97.9
51	30.7	29.8	44.8

Manual Integrations

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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#16

Acetone

Concen: 12.546 ug/l

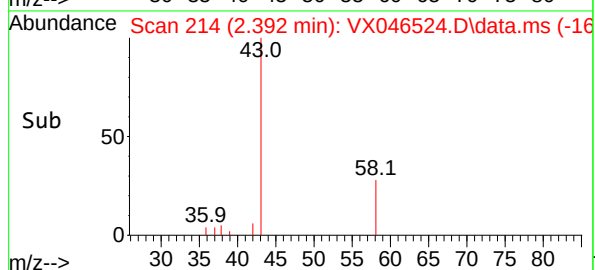
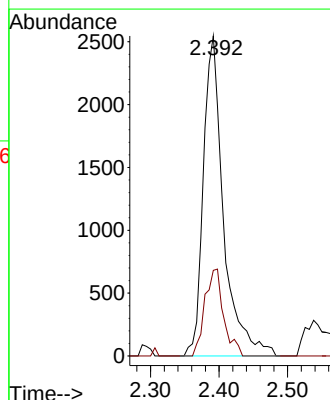
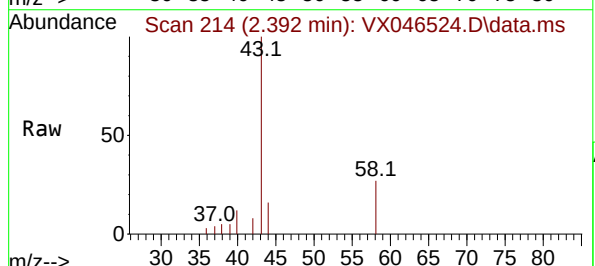
RT: 2.392 min Scan# 214

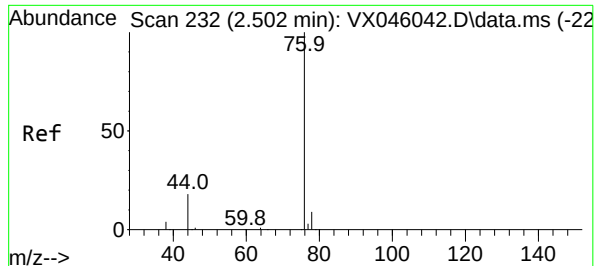
Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion:	43	Resp:	5228
Ion	Ratio	Lower	Upper
43	100		
58	26.8	21.2	31.8





#17

Carbon Disulfide

Concen: 2.030 ug/l

RT: 2.526 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 76 Resp: 427

Ion Ratio Lower Upper

76 100

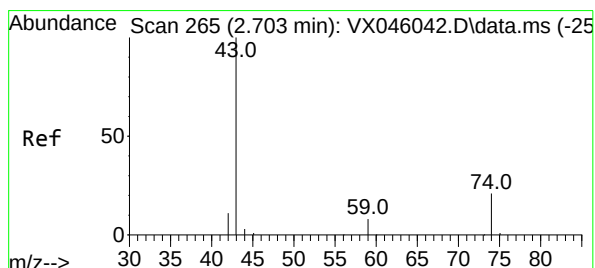
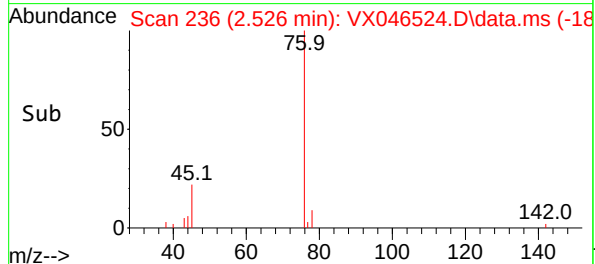
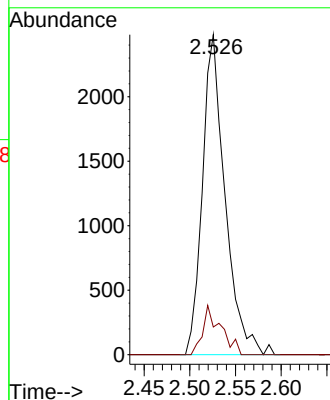
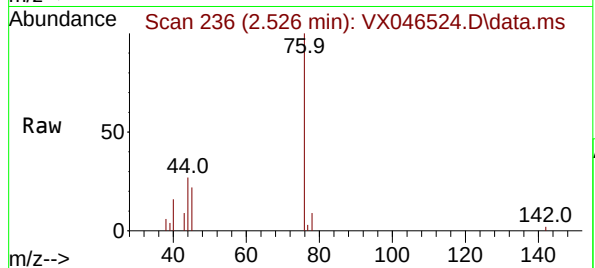
78 8.7 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#18

Methyl Acetate

Concen: 0.833 ug/l

RT: 2.721 min Scan# 268

Delta R.T. -0.000 min

Lab File: VX046524.D

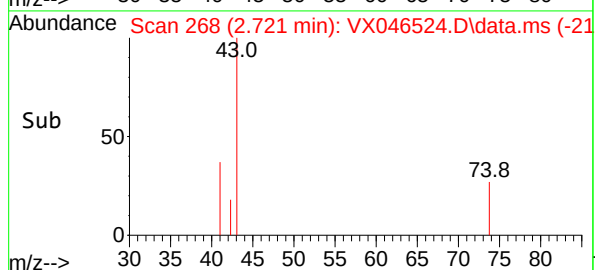
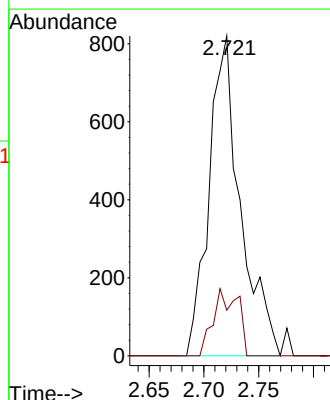
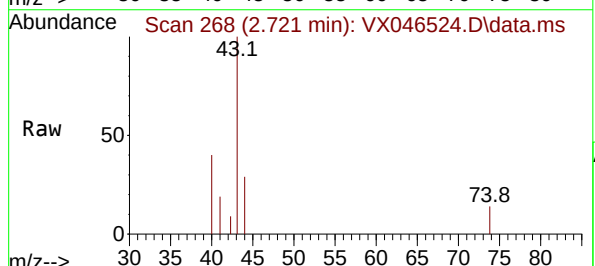
Acq: 06 Jun 2025 12:57

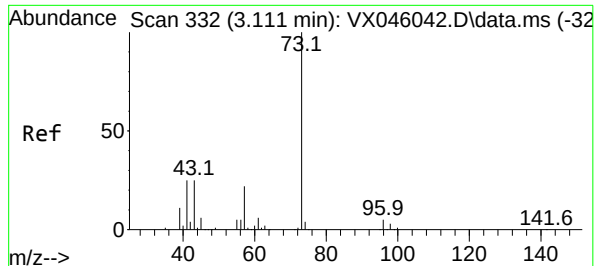
Tgt Ion: 43 Resp: 1631

Ion Ratio Lower Upper

43 100

74 16.4 16.7 25.1#





#19

Methyl tert-butyl Ether

Concen: 0.902 ug/l

RT: 3.123 min Scan# 31

Delta R.T. -0.012 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 73 Resp: 3460

Ion Ratio Lower Upper

73 100

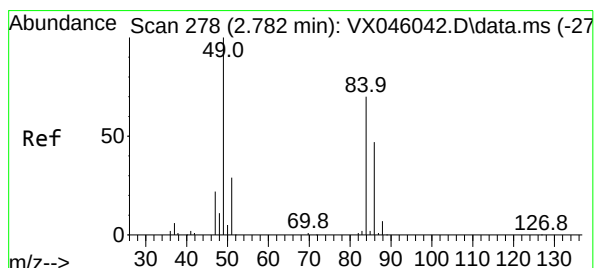
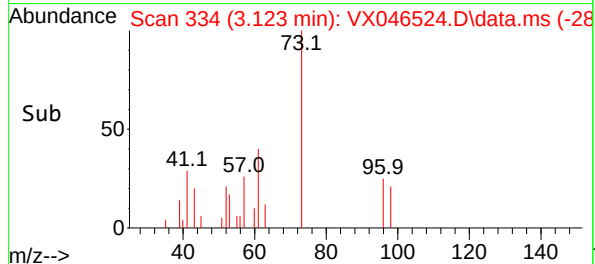
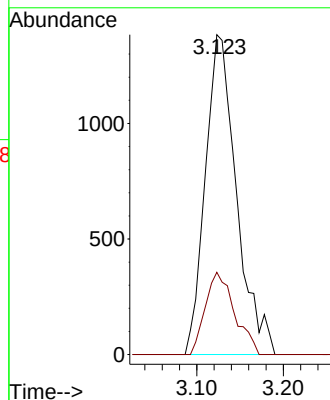
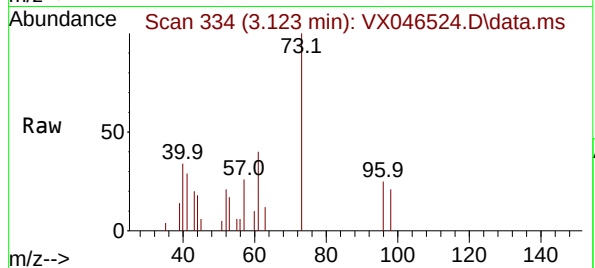
57 25.7 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#20

Methylene Chloride

Concen: 1.217 ug/l

RT: 2.806 min Scan# 282

Delta R.T. 0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion: 84 Resp: 1604

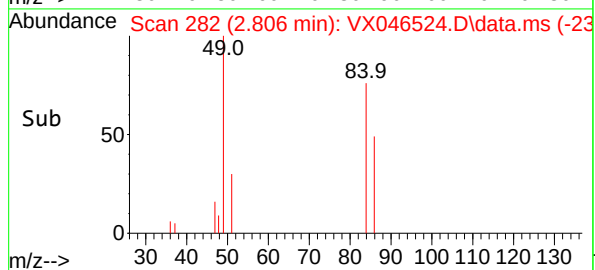
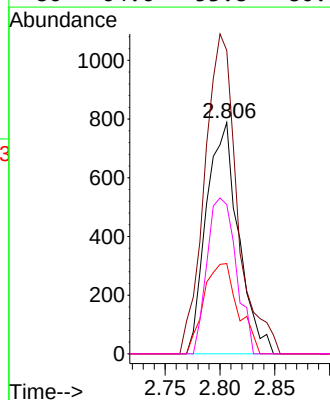
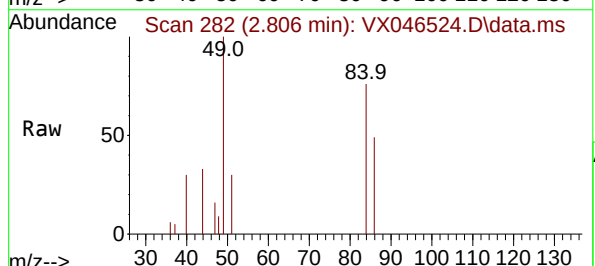
Ion Ratio Lower Upper

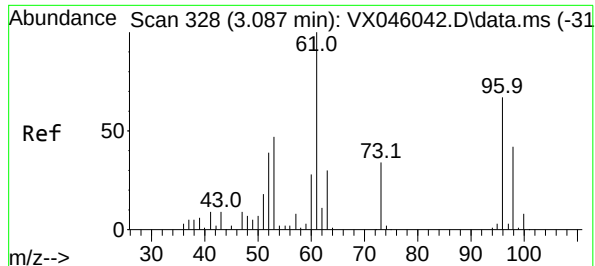
84 100

49 131.2 113.9 170.9

51 39.1 33.5 50.3

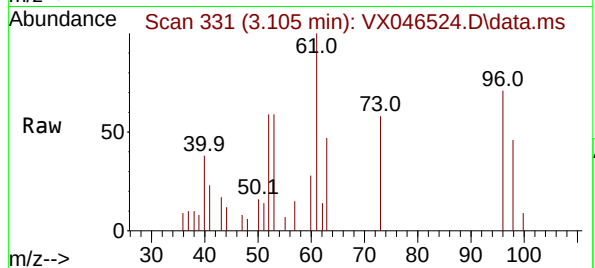
86 64.6 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 1.250 ug/l
RT: 3.105 min Scan# 311
Delta R.T. -0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

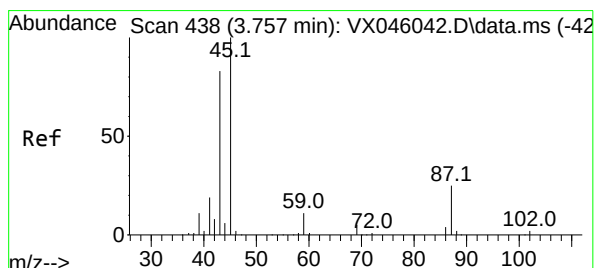
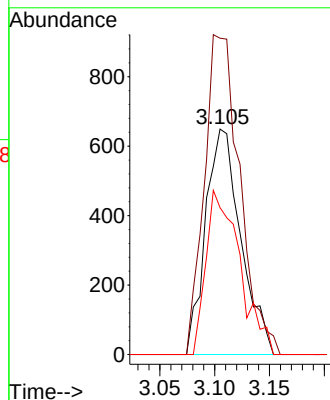
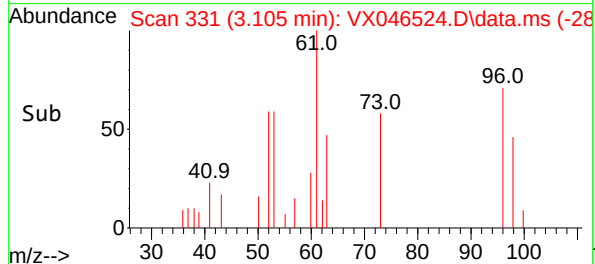
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 96 Resp: 145
Ion Ratio Lower Upper
96 100
61 140.4 119.5 179.3
98 65.2 50.0 75.0

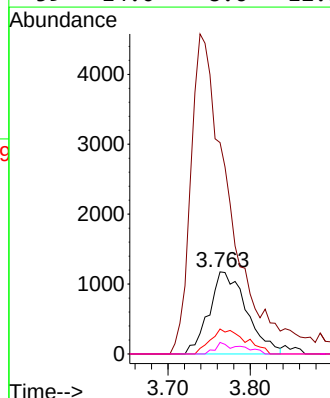
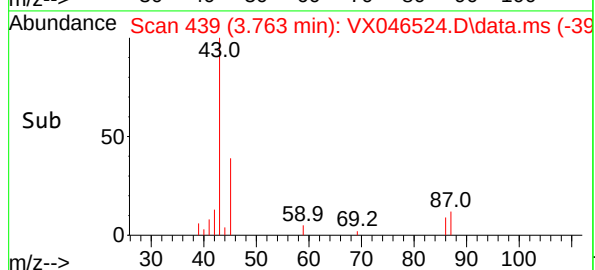
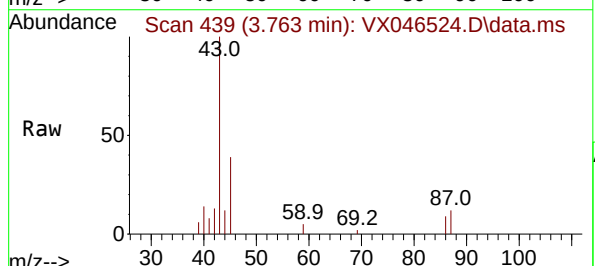
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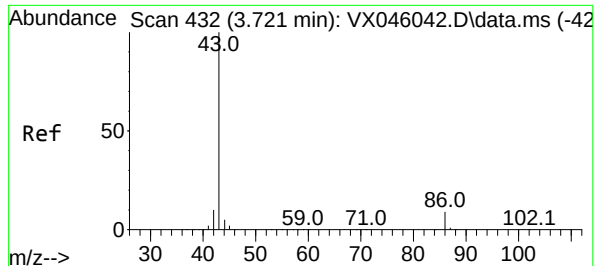
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#22
Diisopropyl ether
Concen: 0.878 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.019 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 45 Resp: 3727
Ion Ratio Lower Upper
45 100
43 229.6 66.6 100.0#
87 30.5 19.8 29.6#
59 14.0 8.6 12.8#





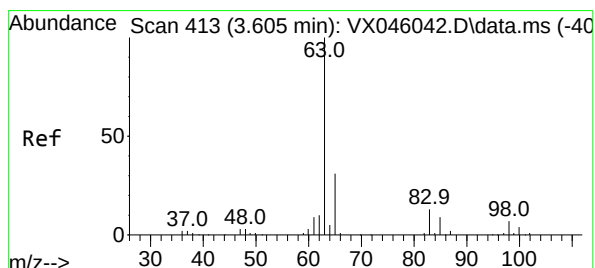
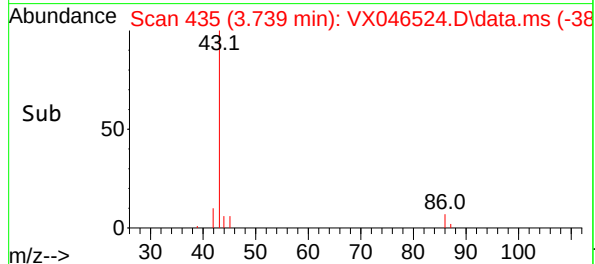
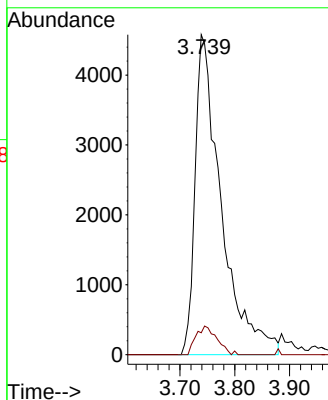
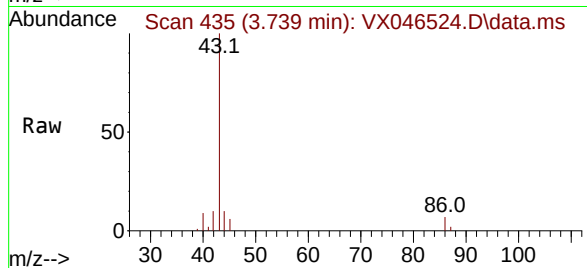
#23
Vinyl Acetate
Concen: 4.618 ug/l
RT: 3.739 min Scan# 415
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 1514
Ion Ratio Lower Upper
43 100
86 6.9 7.5 11.3

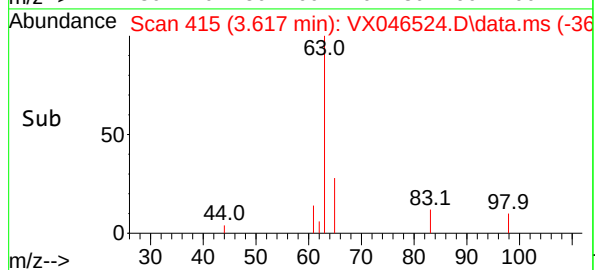
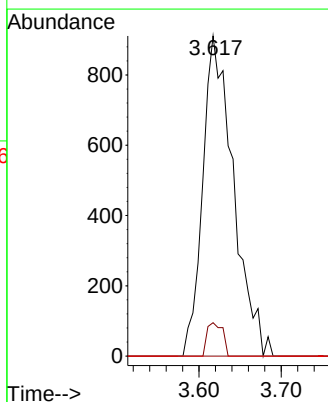
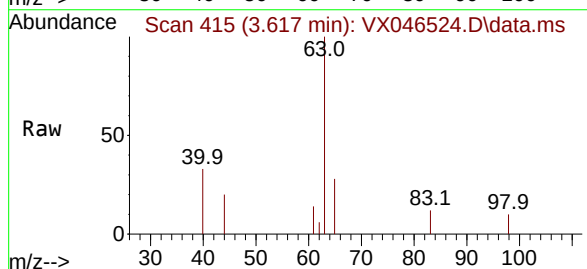
Manual Integrations
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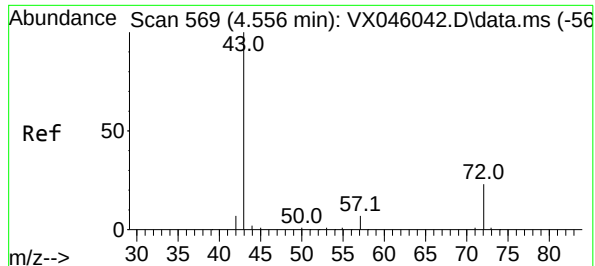
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#24
1,1-Dichloroethane
Concen: 1.000 ug/l
RT: 3.617 min Scan# 415
Delta R.T. -0.012 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 63 Resp: 2366
Ion Ratio Lower Upper
63 100
98 10.4 3.6 10.8
100 0.0 2.1 6.3





#25

2-Butanone

Concen: 4.884 ug/l

RT: 4.598 min Scan# 51

Delta R.T. 0.024 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 446

Ion Ratio Lower Upper

43 100

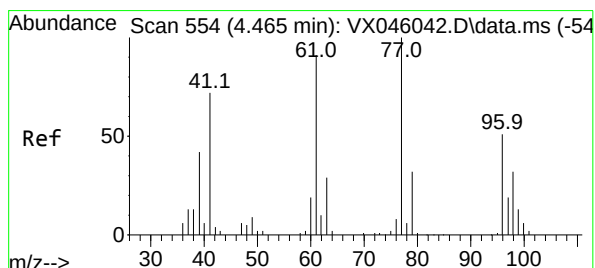
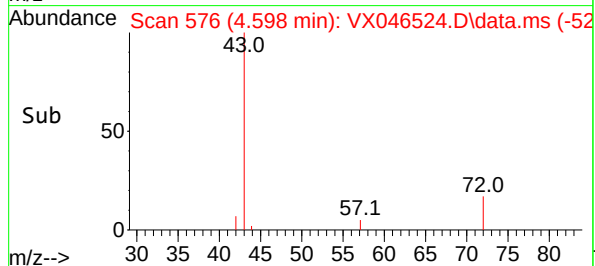
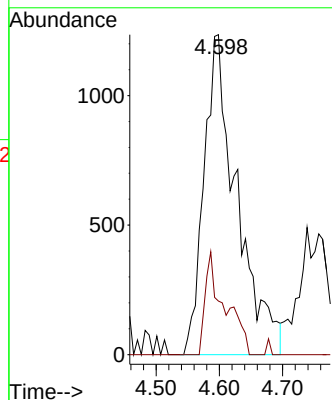
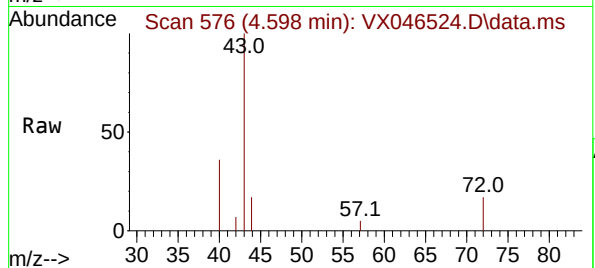
72 16.8 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 0.947 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.012 min

Lab File: VX046524.D

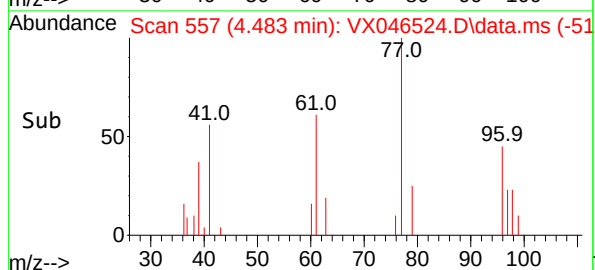
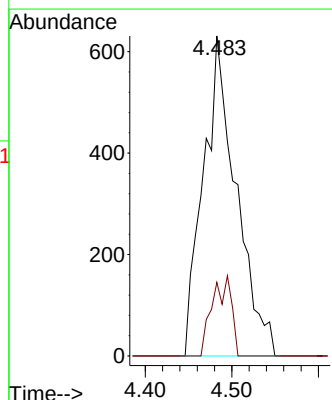
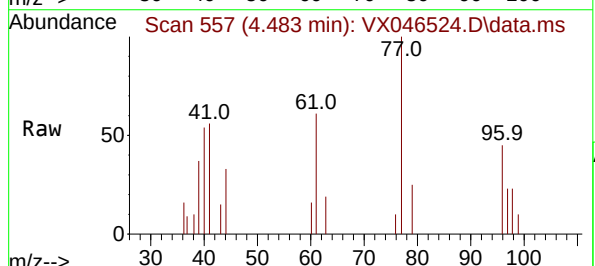
Acq: 06 Jun 2025 12:57

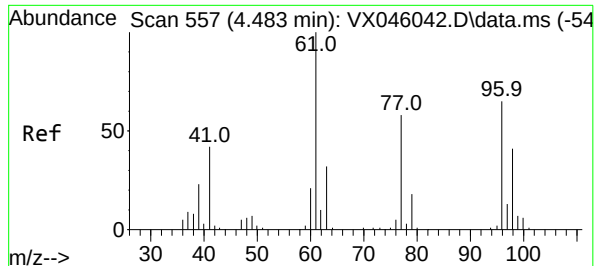
Tgt Ion: 77 Resp: 1663

Ion Ratio Lower Upper

77 100

97 14.6 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 1.120 ug/l

RT: 4.507 min Scan# 50

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 96 Resp: 1600

Ion Ratio Lower Upper

96 100

61 153.1 0.0 322.8

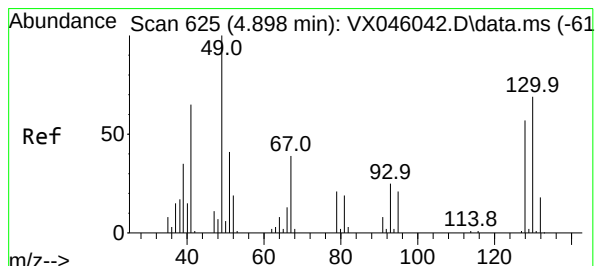
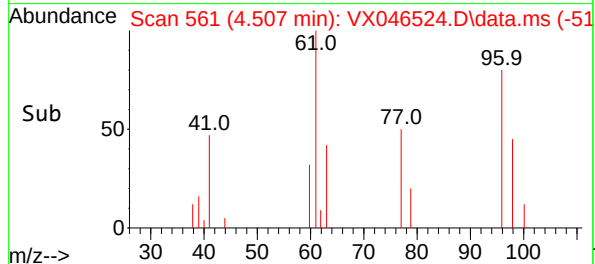
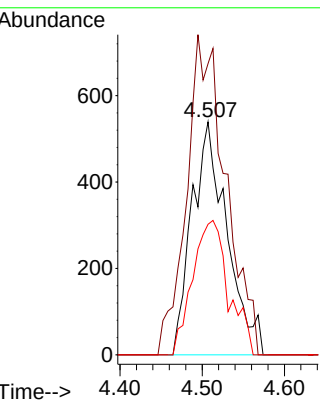
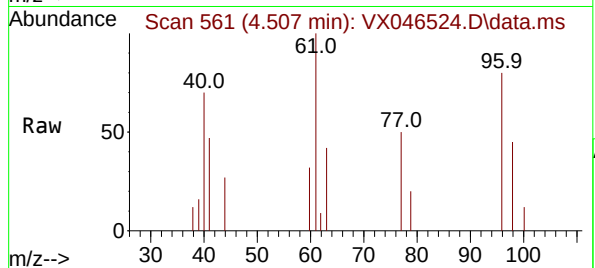
98 59.2 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 1.063 ug/l

RT: 4.928 min Scan# 630

Delta R.T. 0.012 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

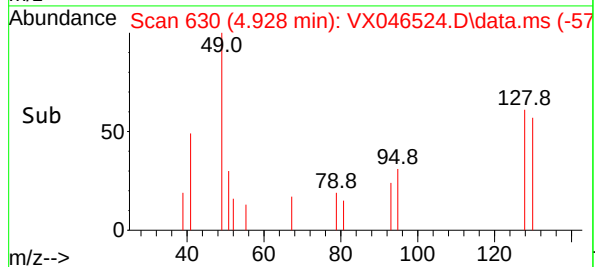
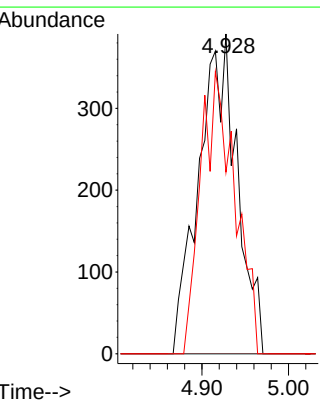
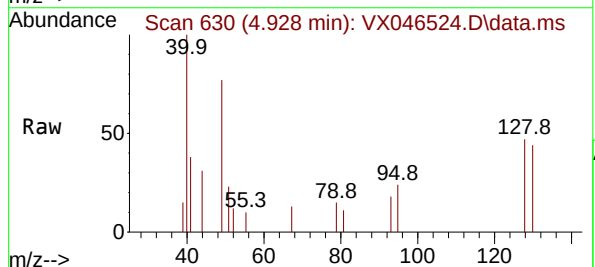
Tgt Ion: 49 Resp: 1200

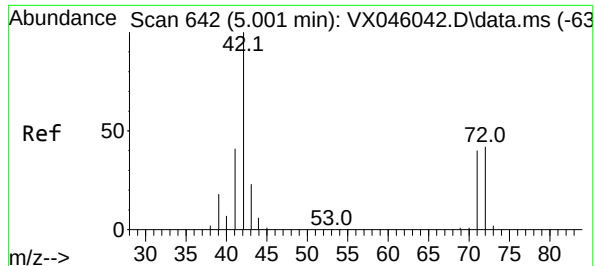
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

130 79.0 56.2 84.2





#29

Tetrahydrofuran

Concen: 4.895 ug/l

RT: 5.037 min Scan# 642

Delta R.T. 0.018 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

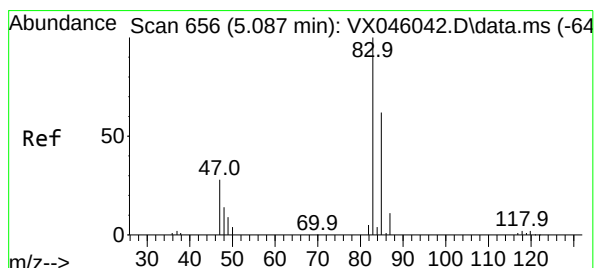
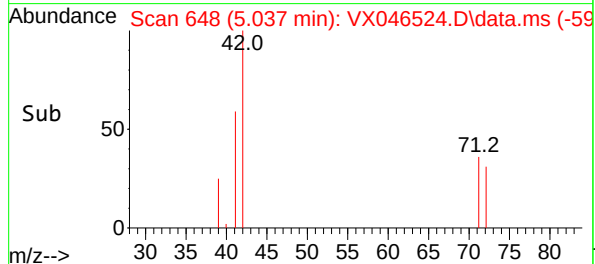
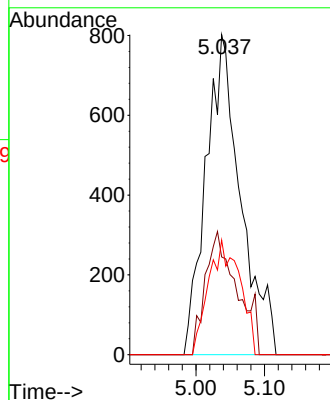
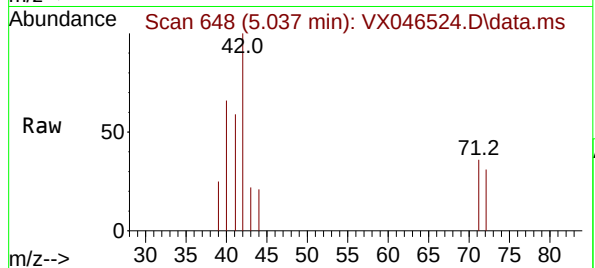
Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:	42	Resp:	282
Ion	Ratio	Lower	Upper
42	100		
72	35.0	33.7	50.5
71	32.3	31.4	47.2

Manual Integrations
APPROVEDReviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

#30

Chloroform

Concen: 1.005 ug/l

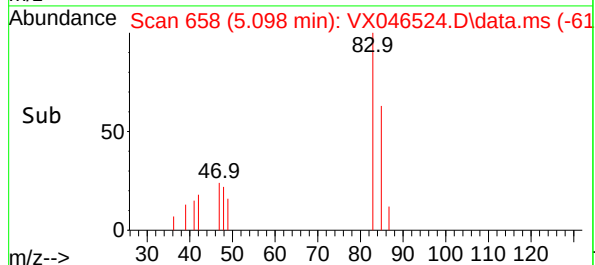
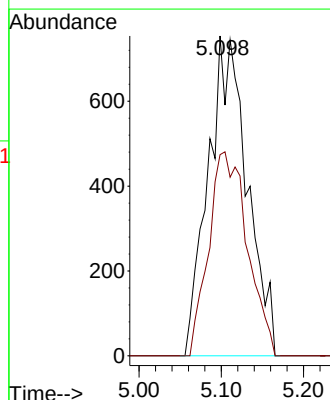
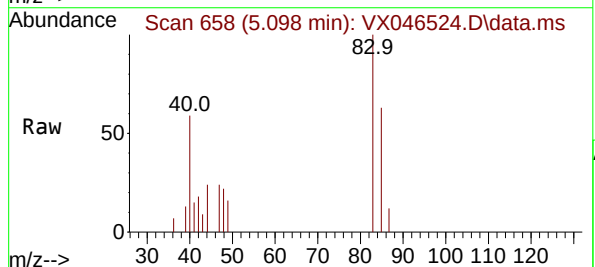
RT: 5.098 min Scan# 658

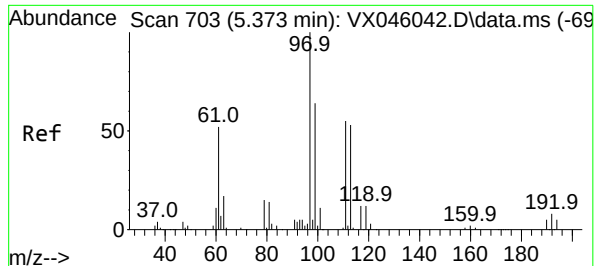
Delta R.T. -0.012 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion:	83	Resp:	2492
Ion	Ratio	Lower	Upper
83	100		
85	62.9	49.3	73.9





#32

1,1,1-Trichloroethane

Concen: 0.985 ug/l

RT: 5.391 min Scan# 703

Delta R.T. -0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 2090

Ion Ratio Lower Upper

97 100

99 0.0 51.8 77.6

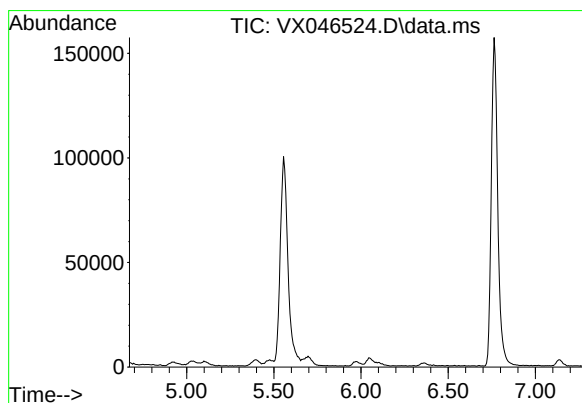
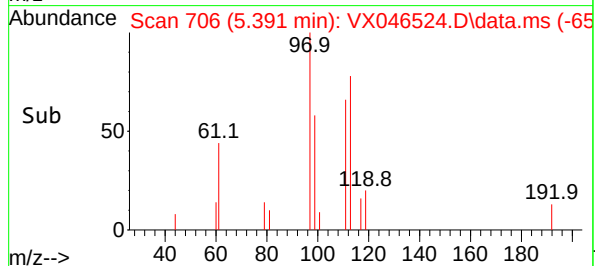
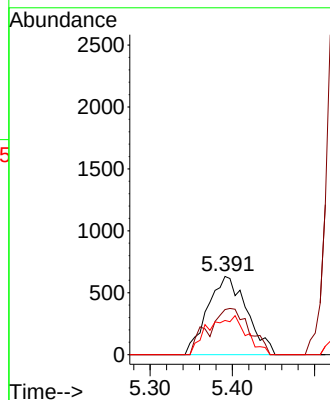
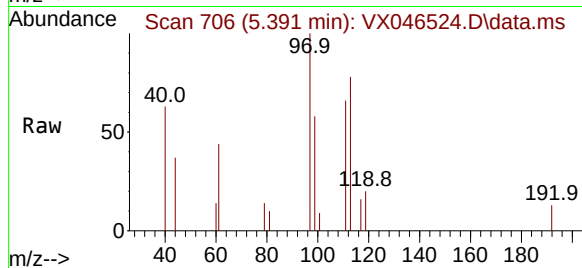
61 48.5 40.1 60.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 5.97 min

Lab File: VX046524.D

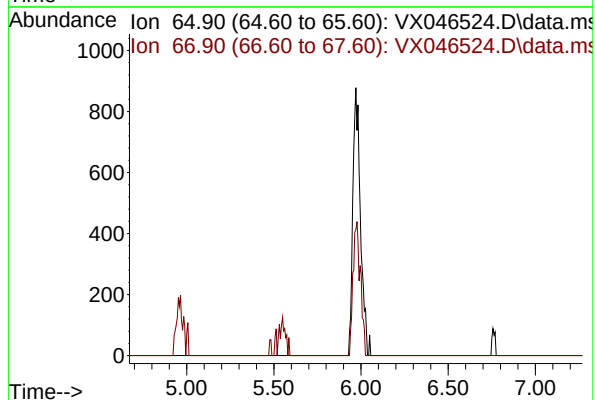
Acq: 06 Jun 2025 12:57

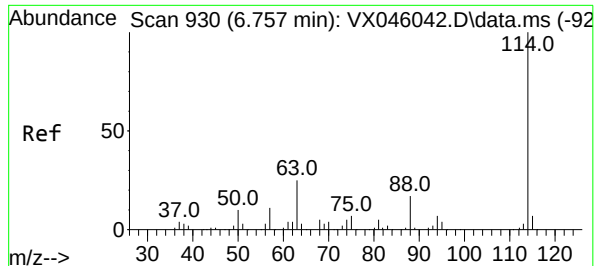
Tgt Ion: 65

Sig Exp Ratio

65 100

67 49.5





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. -0.012 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:114 Resp: 16141

Ion Ratio Lower Upper

114 100

63 22.8 0.0 49.2

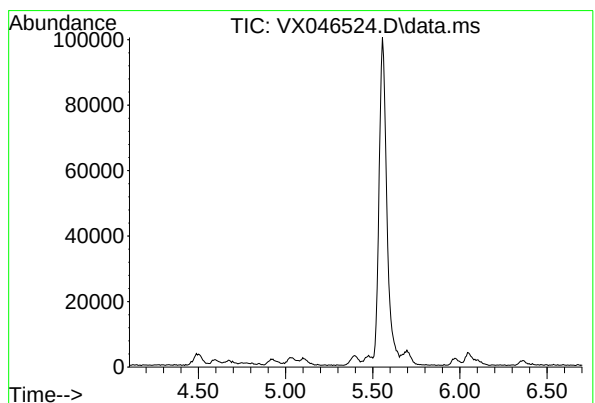
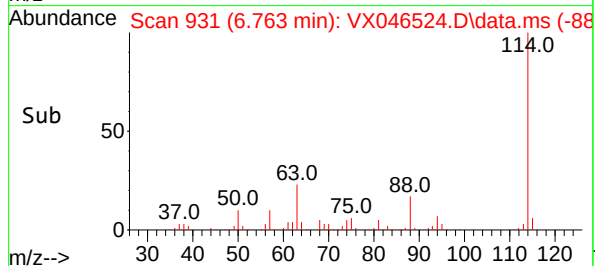
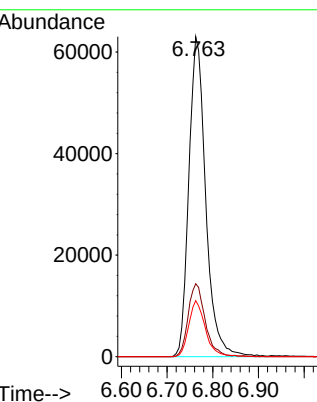
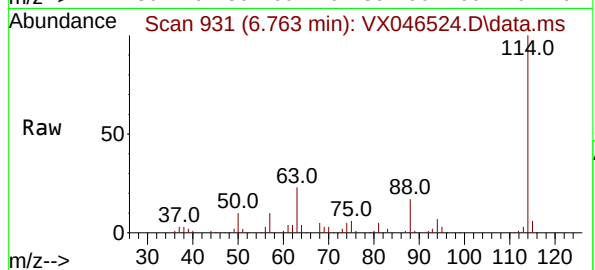
88 17.5 0.0 33.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 5.40 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

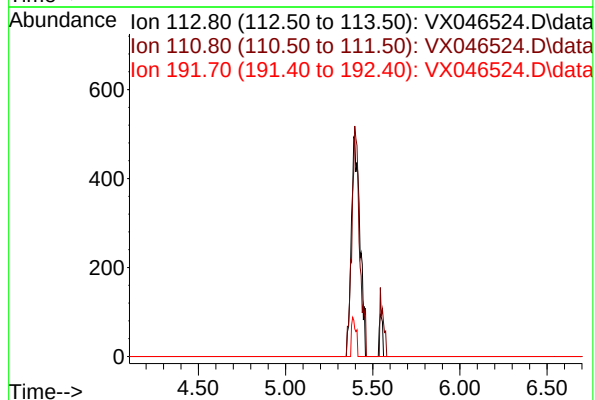
Tgt Ion: 113

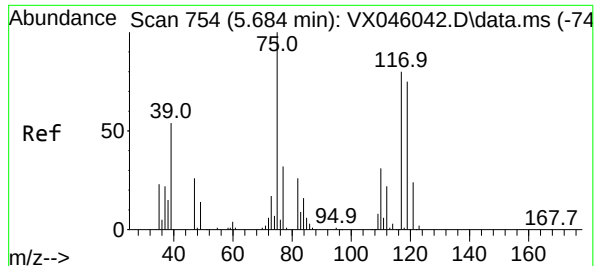
Sig Exp Ratio

113 100

111 103.9

192 16.6





#36

1,1-Dichloropropene

Concen: 1.256 ug/l

RT: 5.702 min Scan# 75

Delta R.T. -0.012 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

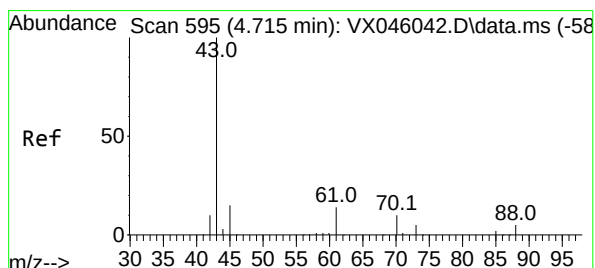
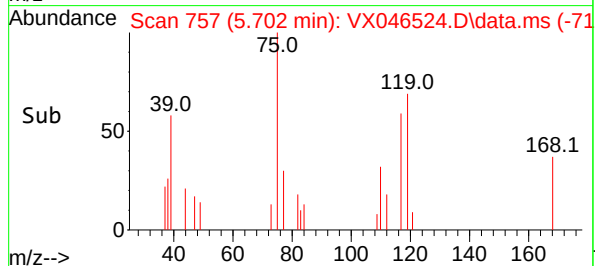
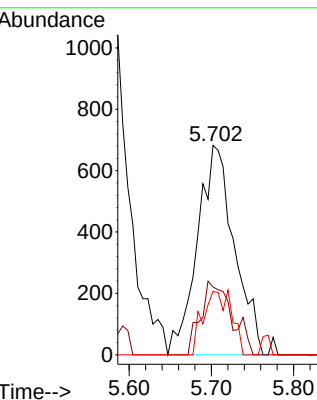
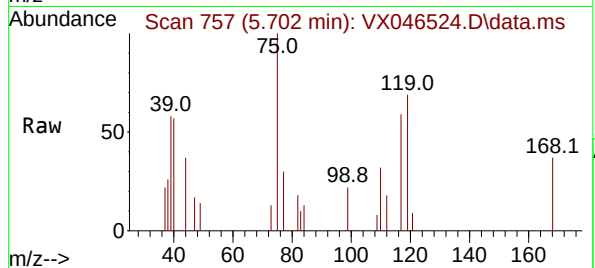
Tgt Ion:	75	Resp:	2130
Ion	Ratio	Lower	Upper
75	100		
110	29.5	16.3	48.9
77	0.0	24.3	36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#37

Ethyl Acetate

Concen: 0.693 ug/l m

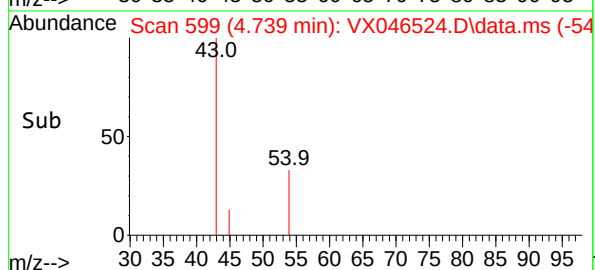
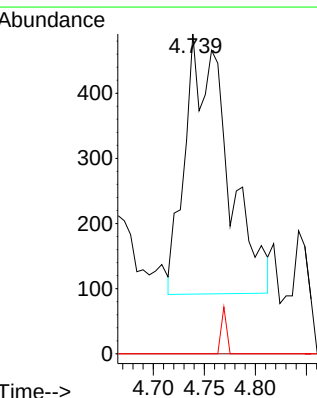
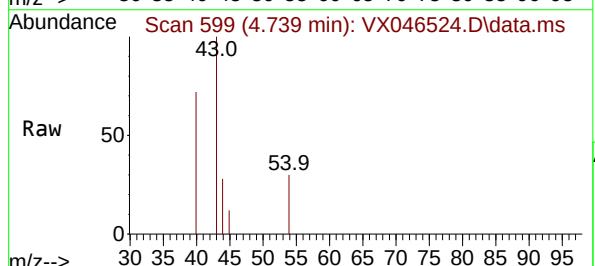
RT: 4.739 min Scan# 599

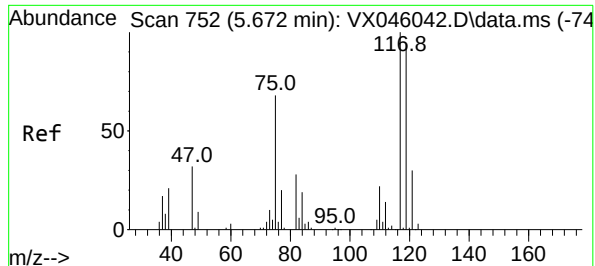
Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion:	43	Resp:	1146
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.3	15.5#
70	0.0	7.9	11.9#





#38

Carbon Tetrachloride

Concen: 1.113 ug/l

RT: 5.696 min Scan# 70

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

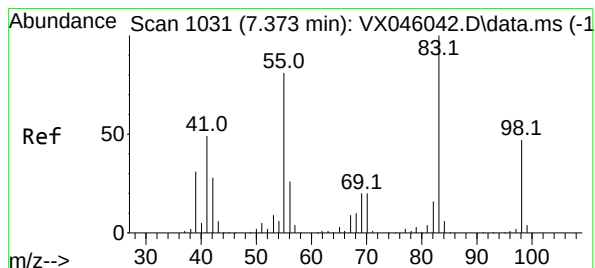
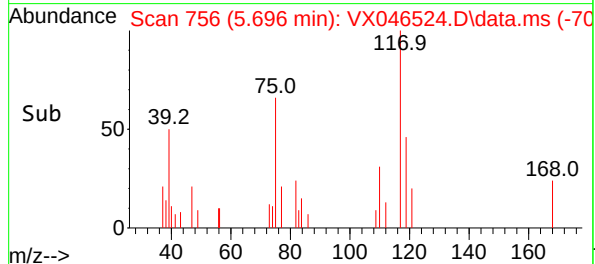
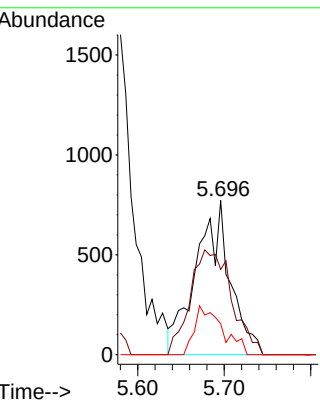
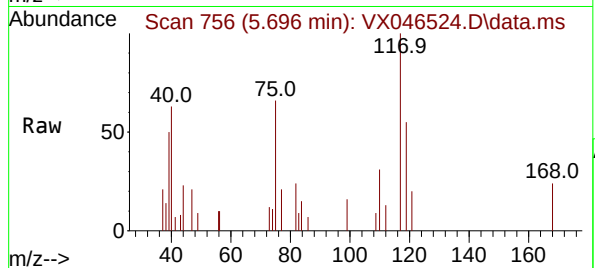
Tgt Ion:	117	Resp:	211
Ion	Ratio	Lower	Upper
117	100		
119	55.3	75.2	112.8
121	20.1	24.2	36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#39

Methylcyclohexane

Concen: 1.169 ug/l

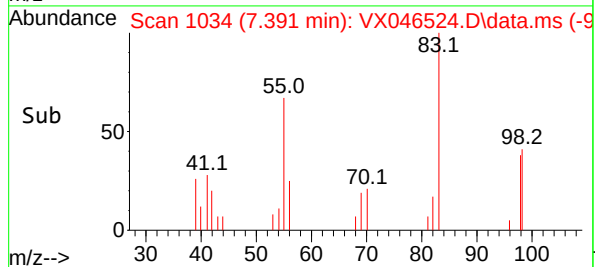
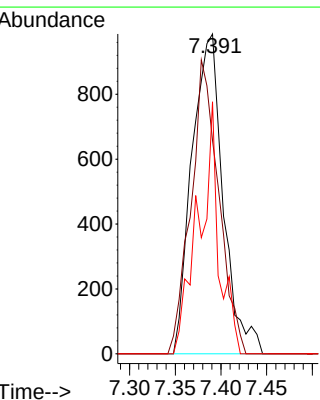
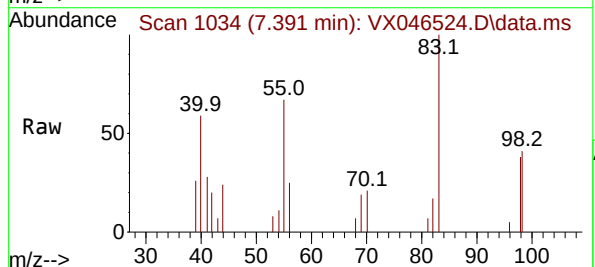
RT: 7.391 min Scan# 1034

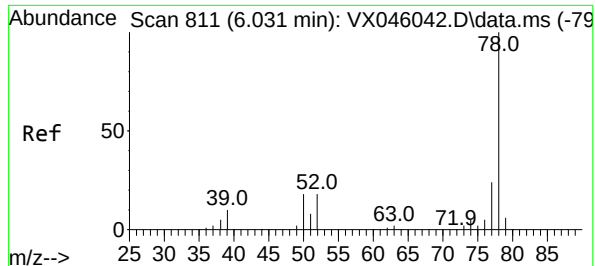
Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion:	83	Resp:	2339
Ion	Ratio	Lower	Upper
83	100		
55	66.7	64.7	97.1
98	78.8	37.4	56.2





#40

Benzene

Concen: 1.029 ug/l

RT: 6.043 min Scan# 811

Delta R.T. -0.012 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 78 Resp: 491

Ion Ratio Lower Upper

78 100

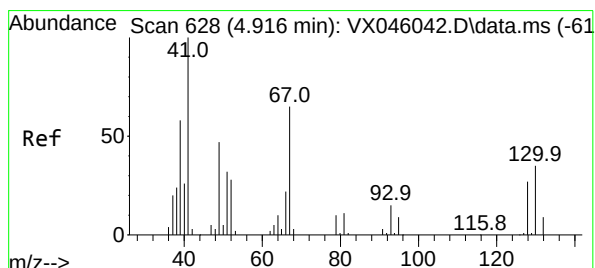
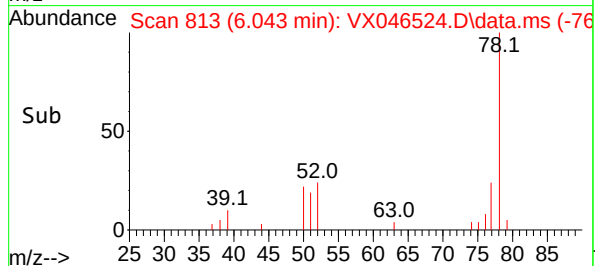
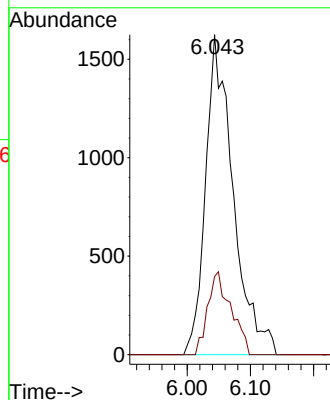
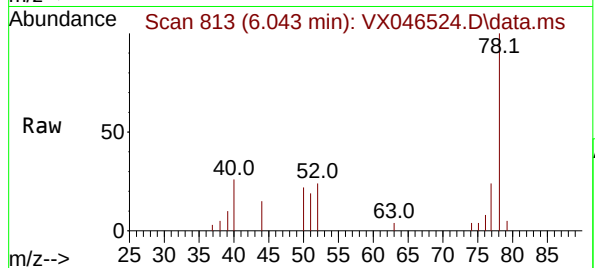
77 24.4 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#41

Methacrylonitrile

Concen: 0.877 ug/l

RT: 4.952 min Scan# 634

Delta R.T. 0.018 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion: 41 Resp: 901

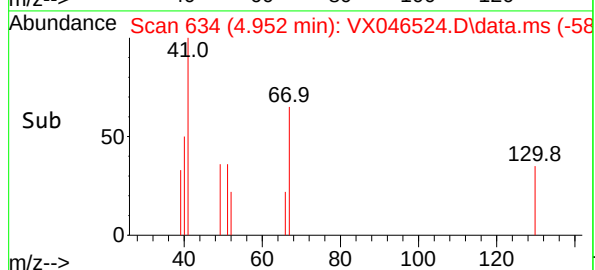
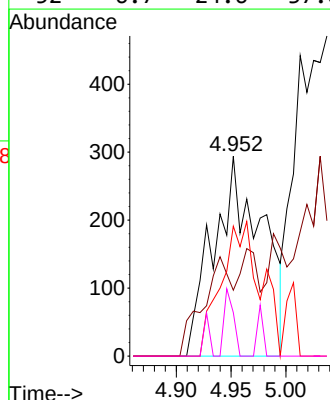
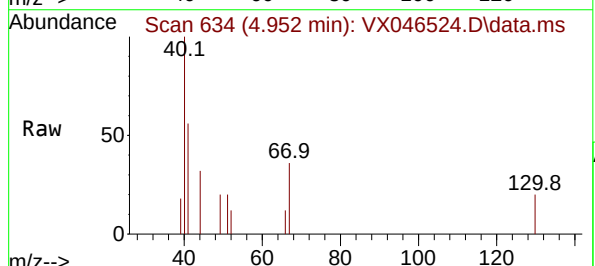
Ion Ratio Lower Upper

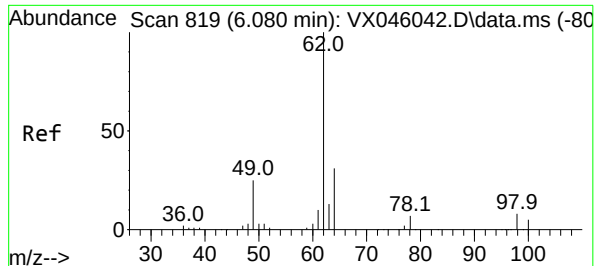
41 100

39 30.0 47.2 70.8#

67 0.0 50.7 76.1#

52 6.7 24.6 37.0#





#42

1,2-Dichloroethane

Concen: 0.984 ug/l

RT: 6.104 min Scan# 819

Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 62 Resp: 195

Ion Ratio Lower Upper

62 100

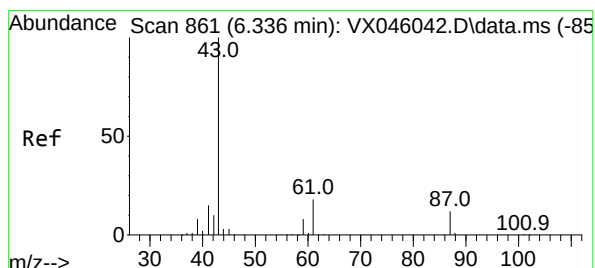
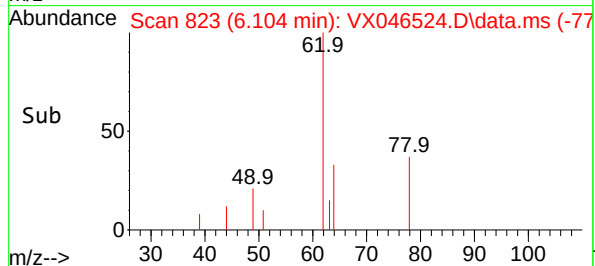
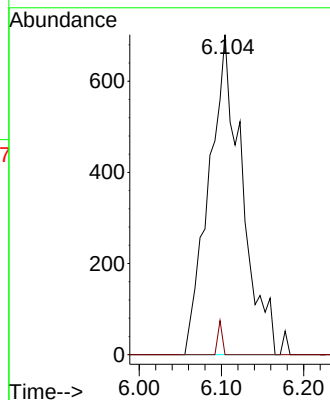
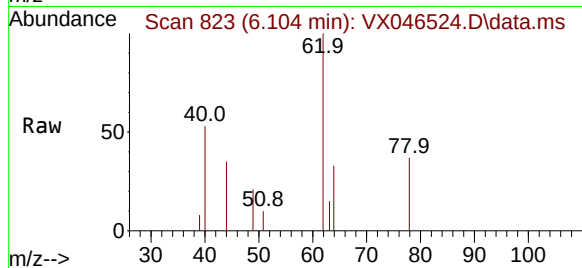
98 1.4 0.0 15.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#43

Isopropyl Acetate

Concen: 0.864 ug/l

RT: 6.348 min Scan# 863

Delta R.T. -0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

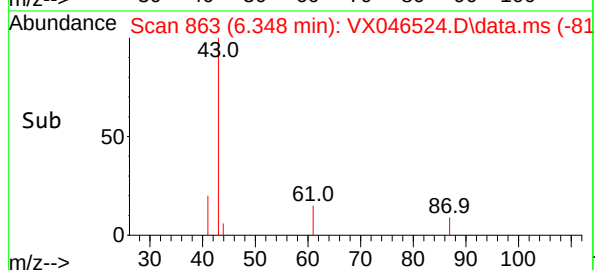
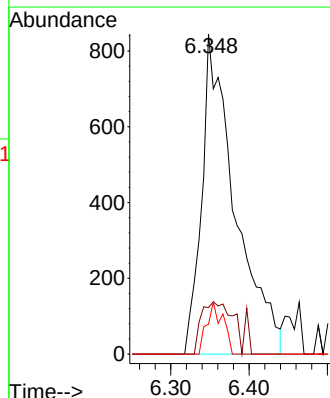
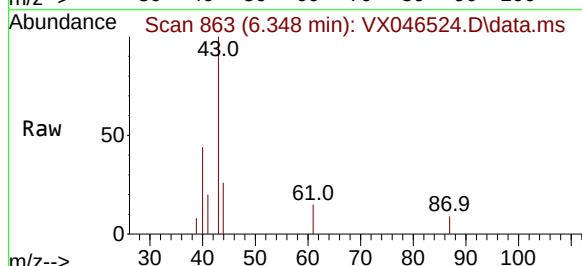
Tgt Ion: 43 Resp: 2493

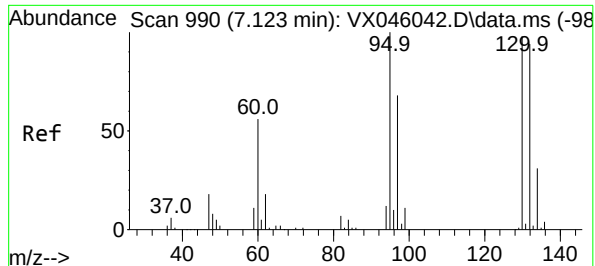
Ion Ratio Lower Upper

43 100

61 15.2 14.3 21.5

87 7.9 9.5 14.3#





#44

Trichloroethene

Concen: 1.267 ug/l

RT: 7.141 min Scan# 990

Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:130 Resp: 153

Ion Ratio Lower Upper

130 100

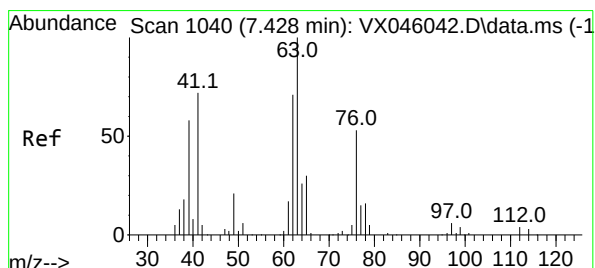
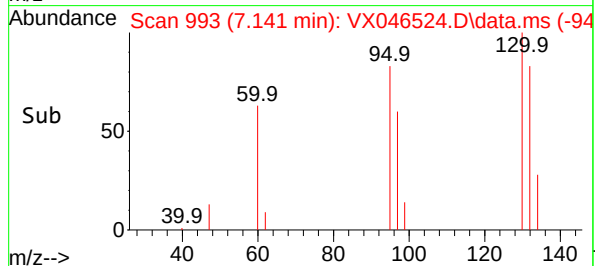
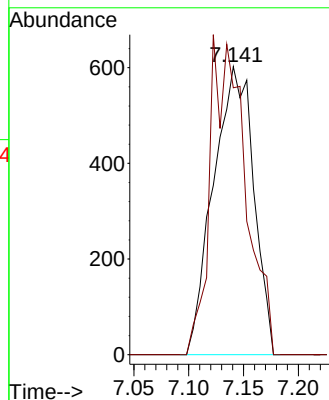
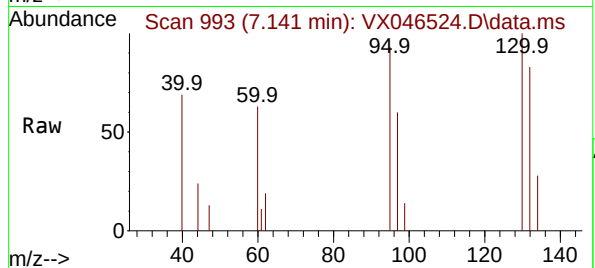
95 92.7 0.0 204.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#45

1,2-Dichloropropane

Concen: 0.940 ug/l

RT: 7.433 min Scan# 1041

Delta R.T. -0.006 min

Lab File: VX046524.D

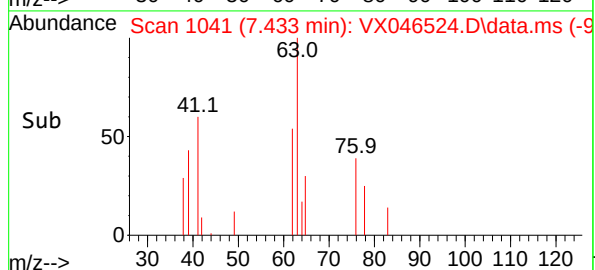
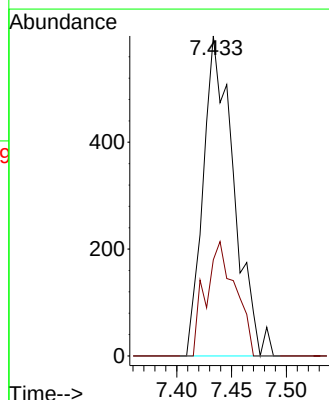
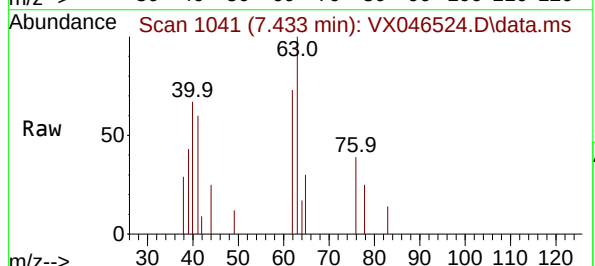
Acq: 06 Jun 2025 12:57

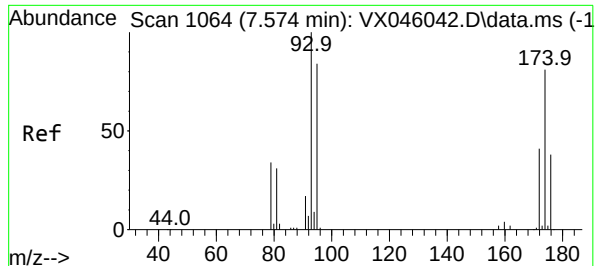
Tgt Ion: 63 Resp: 1158

Ion Ratio Lower Upper

63 100

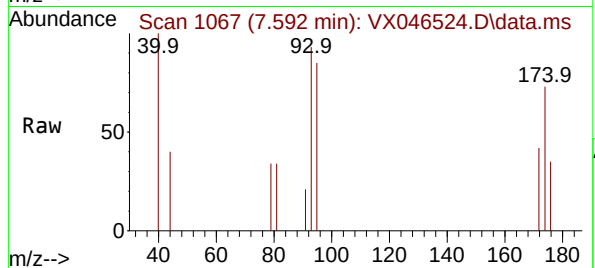
65 30.1 24.1 36.1





#46
Dibromomethane
Concen: 1.012 ug/l
RT: 7.592 min Scan# 1067
Delta R.T. 0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

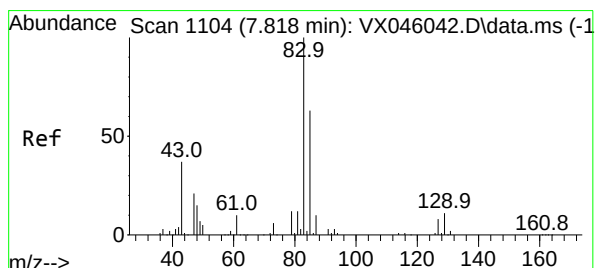
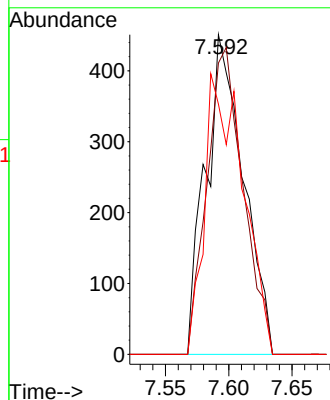
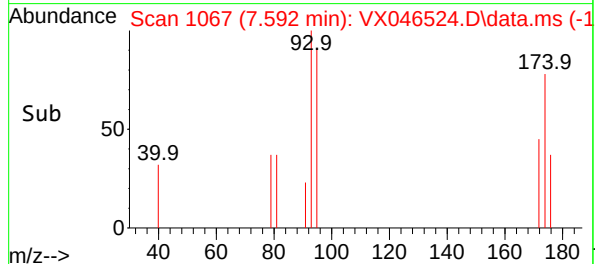
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 93 Resp: 938
Ion Ratio Lower Upper
93 100
95 91.9 65.6 98.4
174 89.4 68.2 102.2

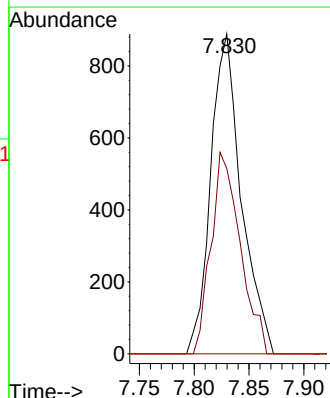
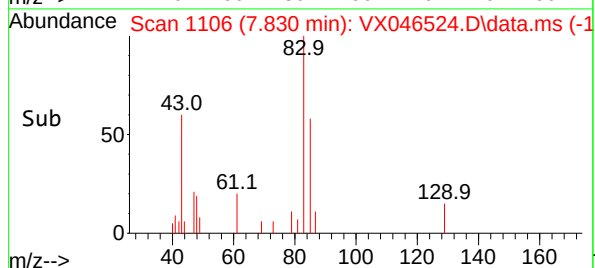
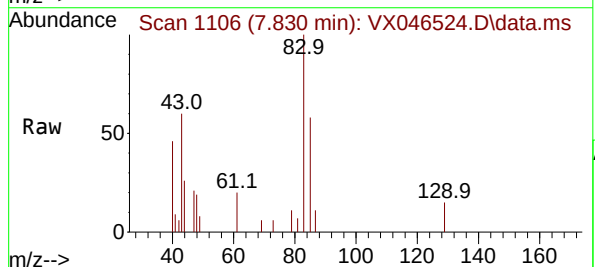
Manual Integrations
APPROVED

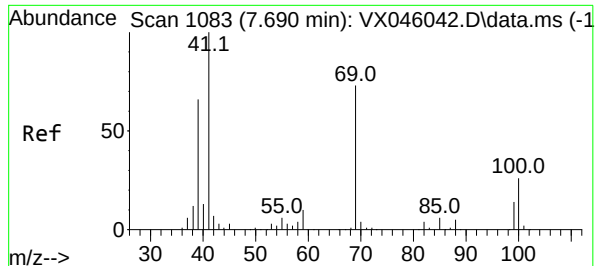
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#47
Bromodichloromethane
Concen: 0.905 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 83 Resp: 1724
Ion Ratio Lower Upper
83 100
85 57.9 50.5 75.7
127 0.0 6.5 9.7#





#48

Methyl methacrylate

Concen: 0.860 ug/l

RT: 7.714 min Scan# 1087

Delta R.T. 0.012 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

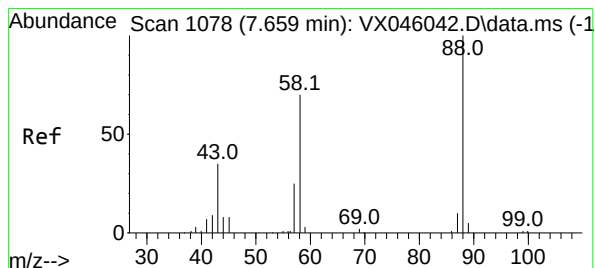
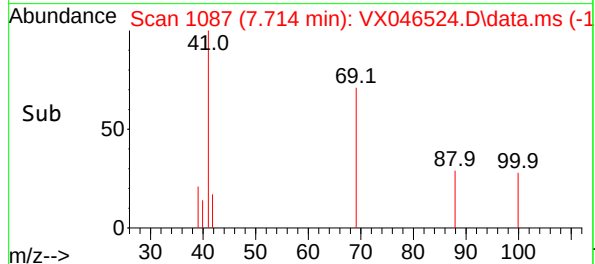
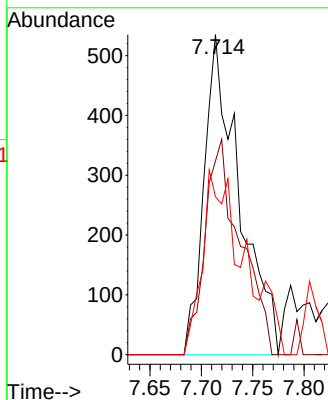
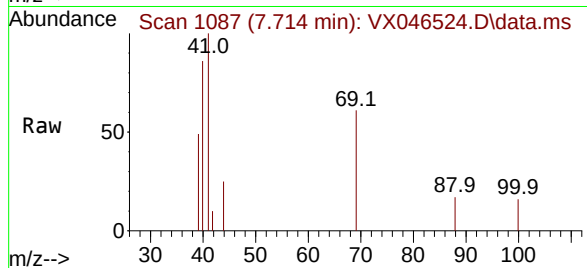
Tgt Ion:	41	Resp:	1270
Ion	Ratio	Lower	Upper
41	100		
69	68.0	58.5	87.7
39	60.0	51.7	77.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#49

1,4-Dioxane

Concen: 14.408 ug/l

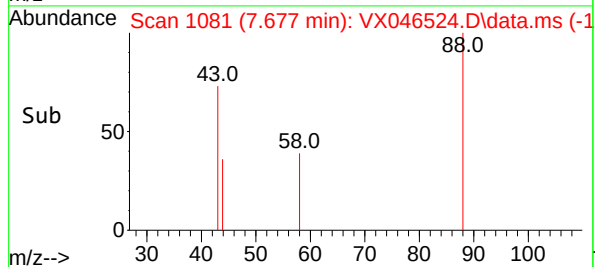
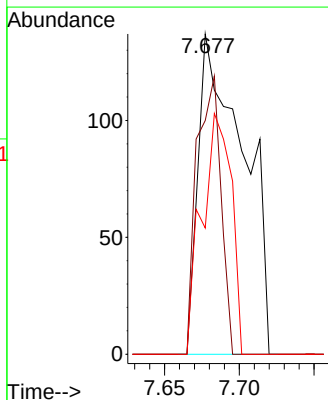
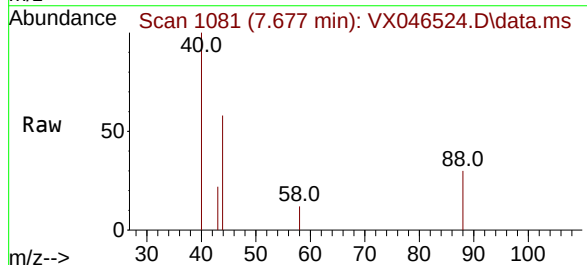
RT: 7.677 min Scan# 1081

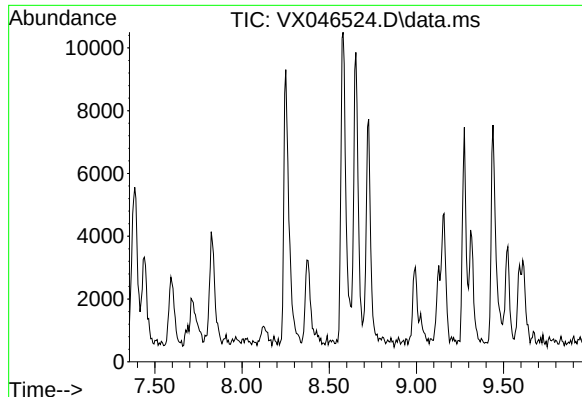
Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion:	88	Resp:	286
Ion	Ratio	Lower	Upper
88	100		
43	46.2	33.4	50.2
58	49.3	58.6	88.0#





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

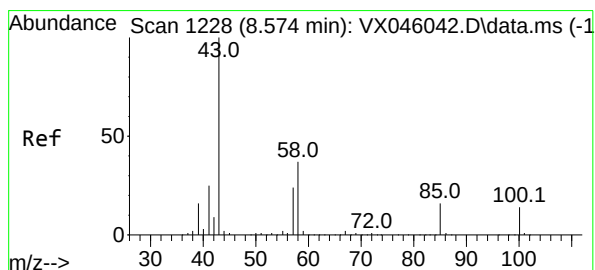
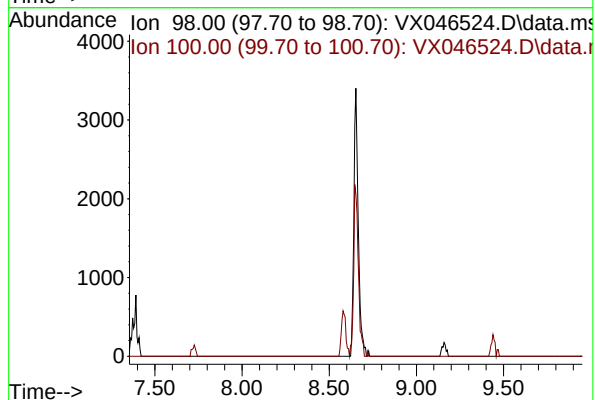
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 98
Sig Exp Ratio
98 100
100 66.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

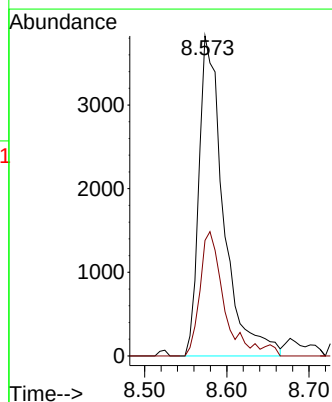
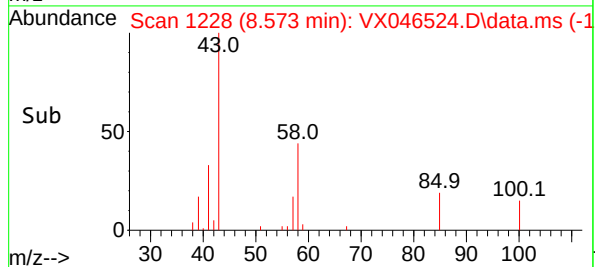
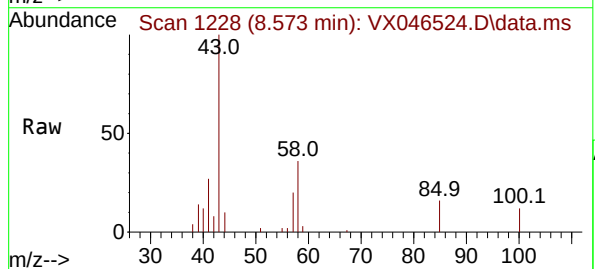
Manual Integrations
APPROVED

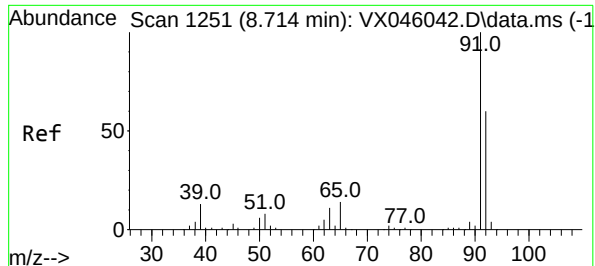
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#51
4-Methyl-2-Pentanone
Concen: 4.328 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 43 Resp: 7935
Ion Ratio Lower Upper
43 100
58 37.2 28.9 43.3





#52

Toluene

Concen: 1.032 ug/l

RT: 8.720 min Scan# 1251

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 92 Resp: 302

Ion Ratio Lower Upper

92 100

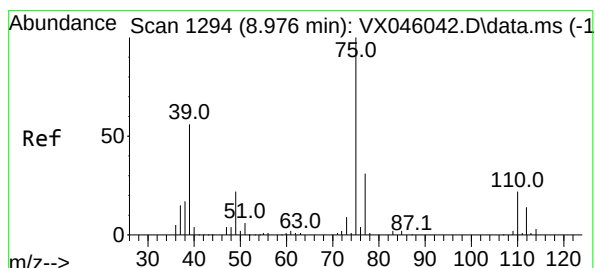
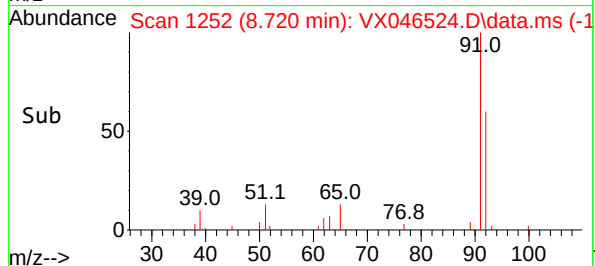
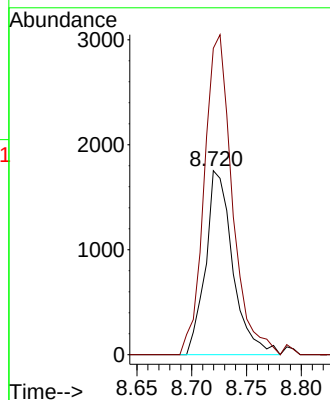
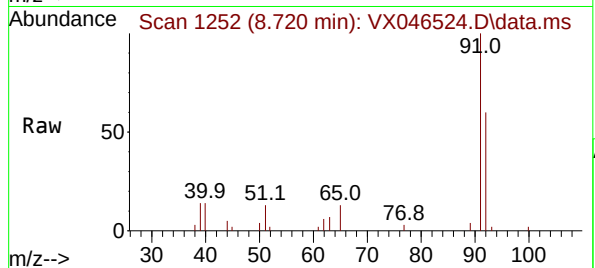
91 179.3 136.6 205.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#53

t-1,3-Dichloropropene

Concen: 0.907 ug/l

RT: 8.988 min Scan# 1296

Delta R.T. 0.006 min

Lab File: VX046524.D

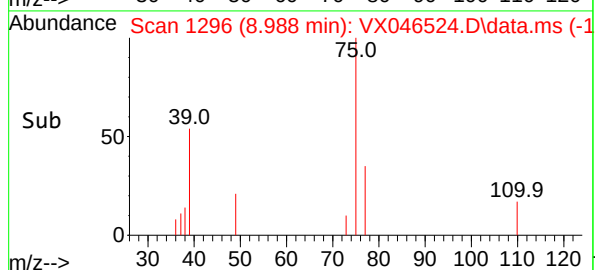
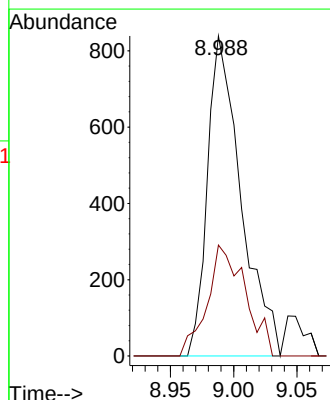
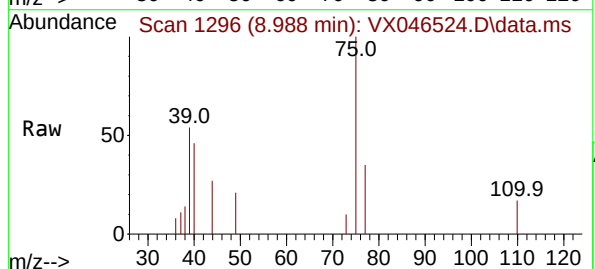
Acq: 06 Jun 2025 12:57

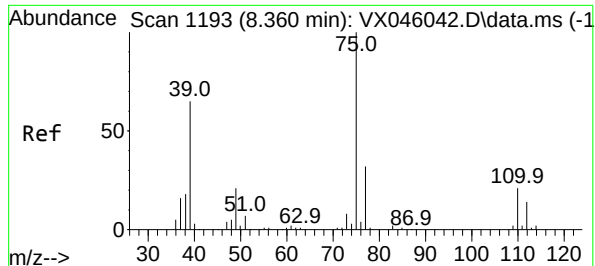
Tgt Ion: 75 Resp: 1550

Ion Ratio Lower Upper

75 100

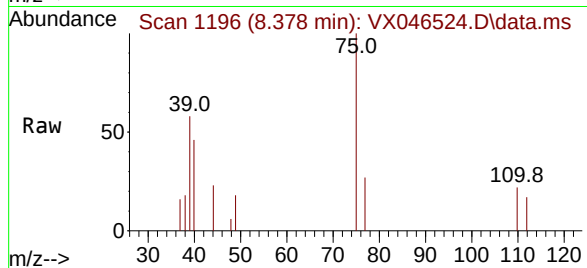
77 34.7 25.0 37.6





#54
cis-1,3-Dichloropropene
Concen: 0.964 ug/l
RT: 8.378 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

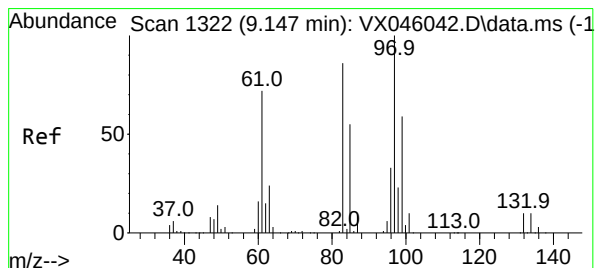
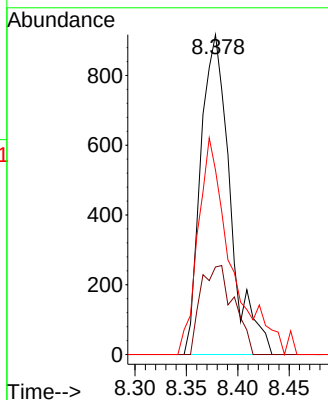
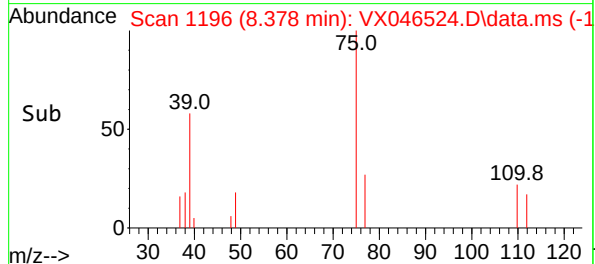
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 75 Resp: 183
Ion Ratio Lower Upper
75 100
77 27.4 25.4 38.0
39 57.7 52.2 78.4

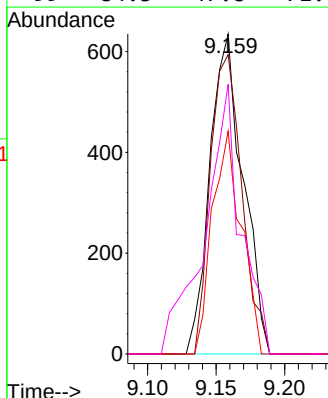
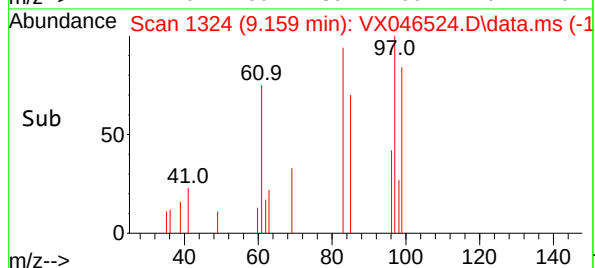
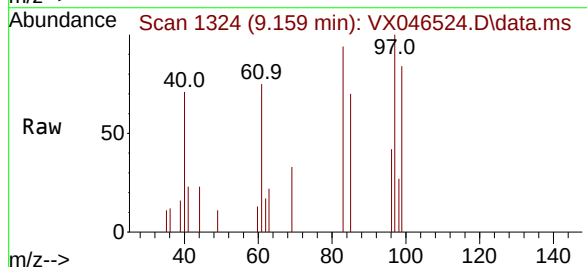
Manual Integrations
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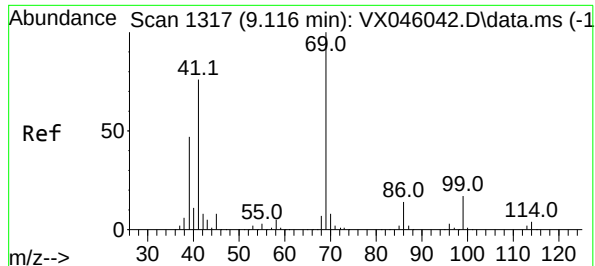
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#55
1,1,2-Trichloroethane
Concen: 0.908 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 97 Resp: 1069
Ion Ratio Lower Upper
97 100
83 93.5 69.0 103.6
85 69.6 44.3 66.5#
99 84.3 47.8 71.6#





#56

Ethyl methacrylate

Concen: 0.812 ug/l

RT: 9.122 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

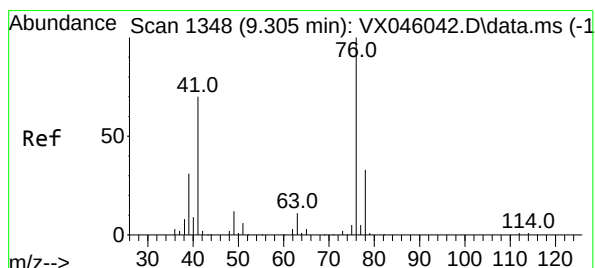
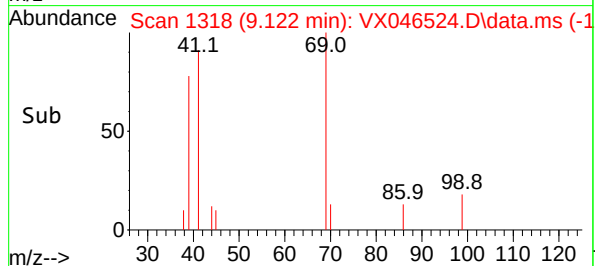
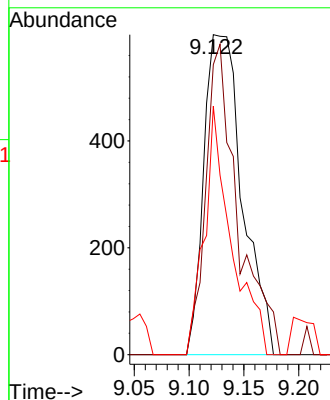
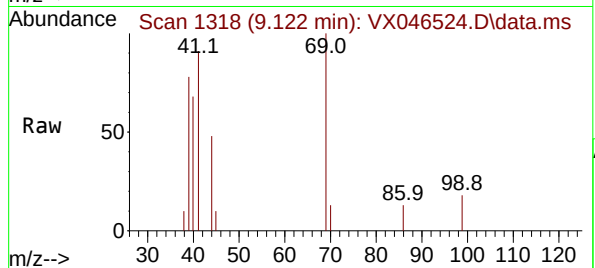
VSTDICC001

Tgt Ion:	69	Resp:	147
Ion Ratio	Lower	Upper	
69	100		
41	80.5	60.8	91.2
39	54.2	39.0	58.6

Manual Integrations
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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#57

1,3-Dichloropropane

Concen: 1.014 ug/l

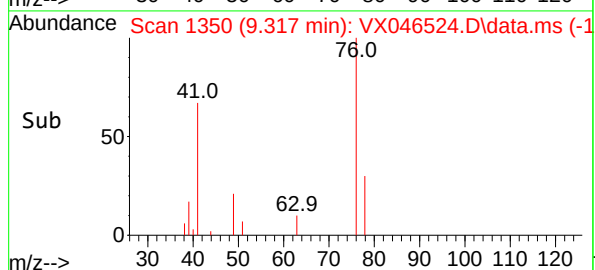
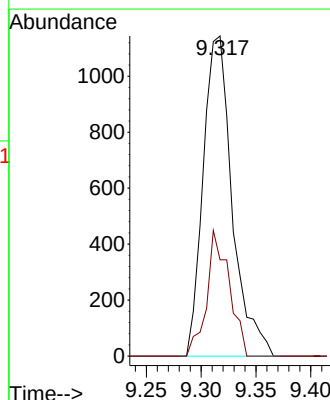
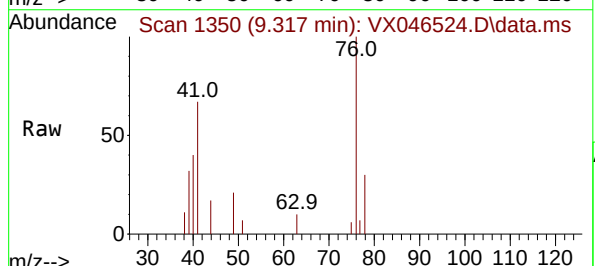
RT: 9.317 min Scan# 1350

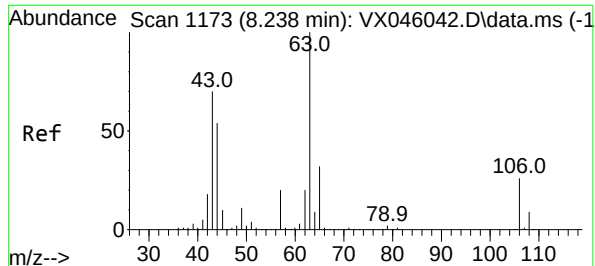
Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion:	76	Resp:	2109
Ion Ratio	Lower	Upper	
76	100		
78	30.2	26.3	39.5





#58

2-Chloroethyl Vinyl ether

Concen: 4.540 ug/l

RT: 8.250 min Scan# 1173

Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 63 Resp: 4480

Ion Ratio Lower Upper

63 100

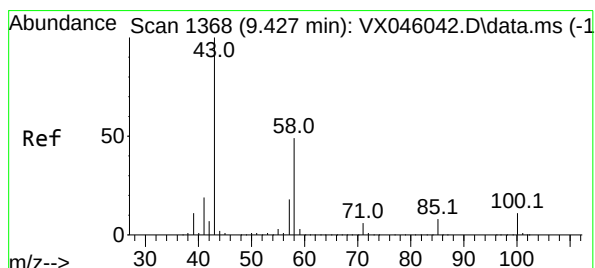
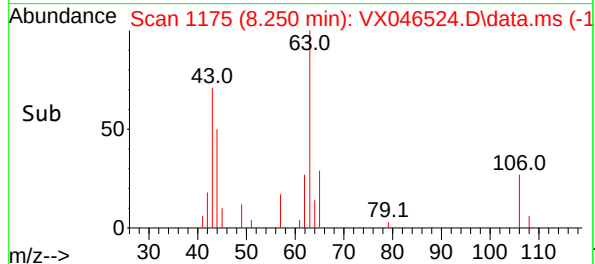
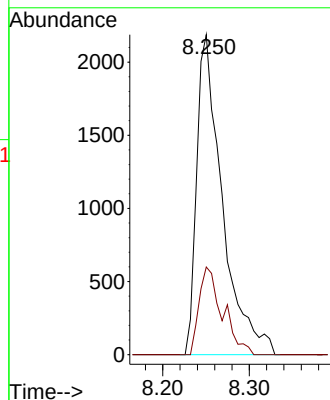
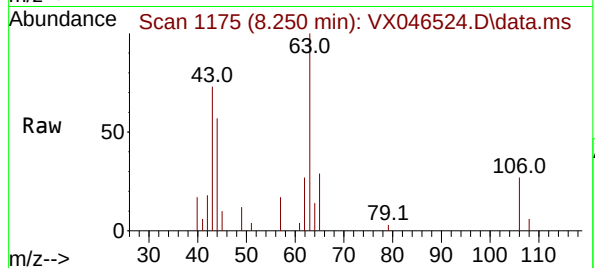
106 25.1 21.5 32.3

Manual Integrations

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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#59

2-Hexanone

Concen: 4.515 ug/l

RT: 9.439 min Scan# 1370

Delta R.T. 0.006 min

Lab File: VX046524.D

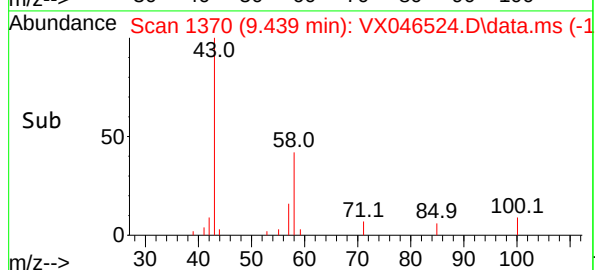
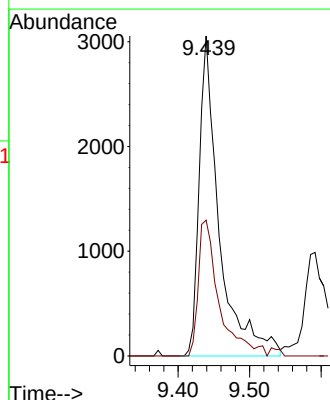
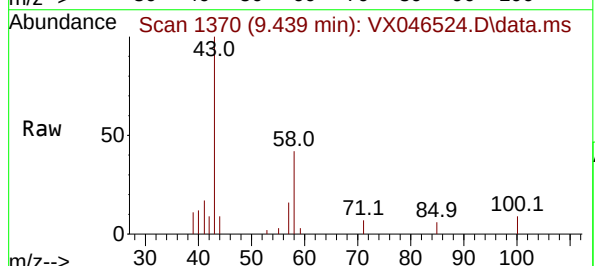
Acq: 06 Jun 2025 12:57

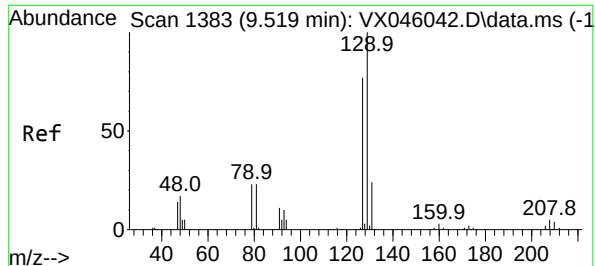
Tgt Ion: 43 Resp: 5937

Ion Ratio Lower Upper

43 100

58 43.8 24.9 74.6





#60

Dibromochloromethane

Concen: 0.944 ug/l

RT: 9.524 min Scan# 1384

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:129 Resp: 1307

Ion Ratio Lower Upper

129 100

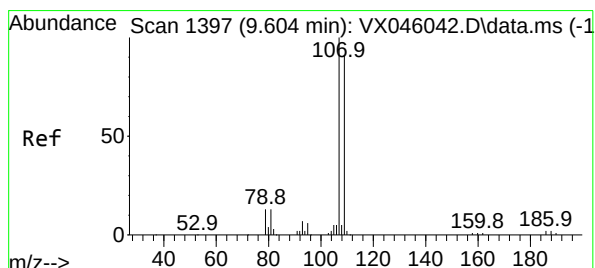
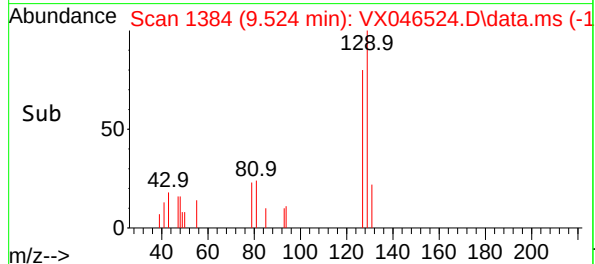
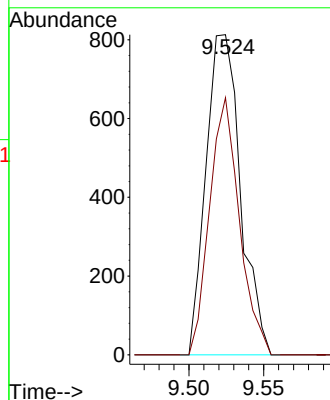
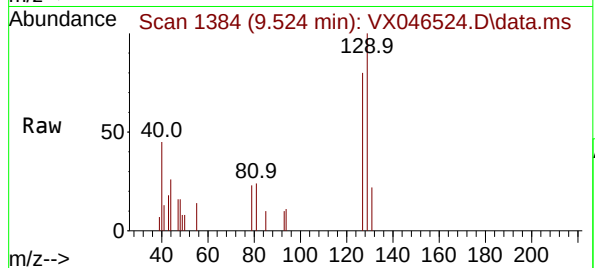
127 69.3 39.3 117.8

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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#61

1,2-Dibromoethane

Concen: 1.105 ug/l

RT: 9.616 min Scan# 1399

Delta R.T. 0.006 min

Lab File: VX046524.D

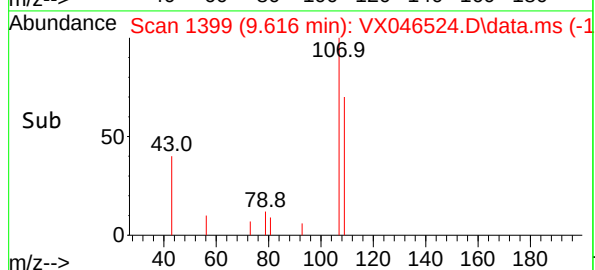
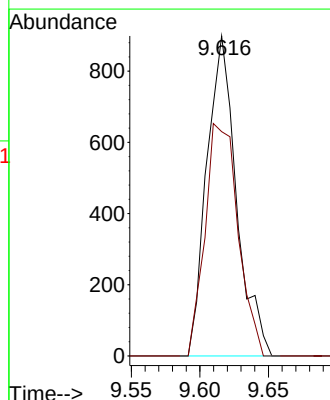
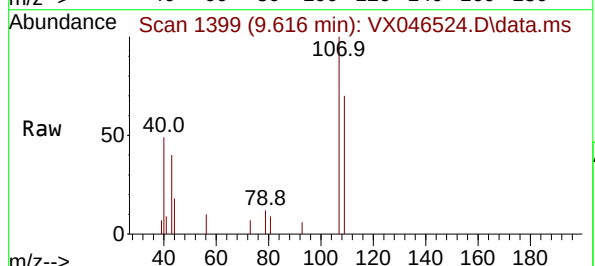
Acq: 06 Jun 2025 12:57

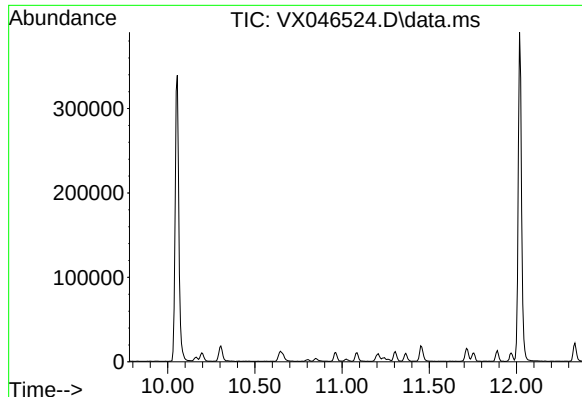
Tgt Ion:107 Resp: 1355

Ion Ratio Lower Upper

107 100

109 80.7 73.3 109.9





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

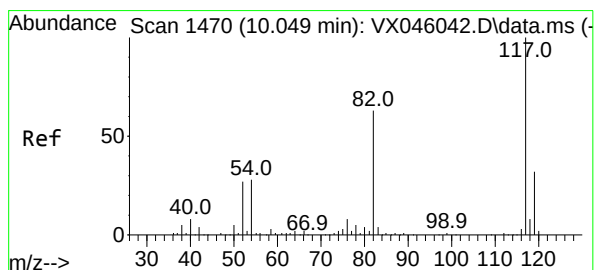
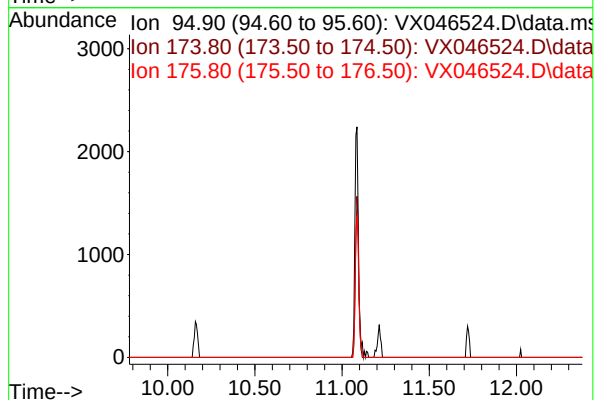
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 95
Sig Exp Ratio
95 100
174 67.9
176 65.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

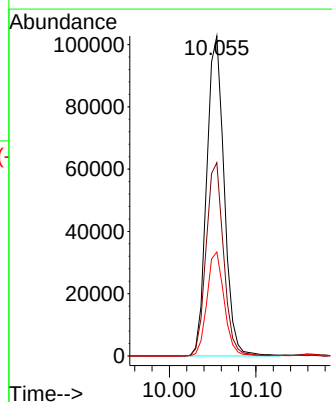
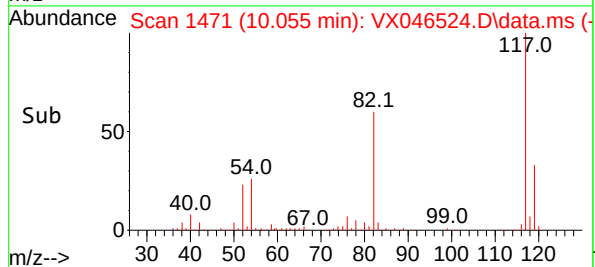
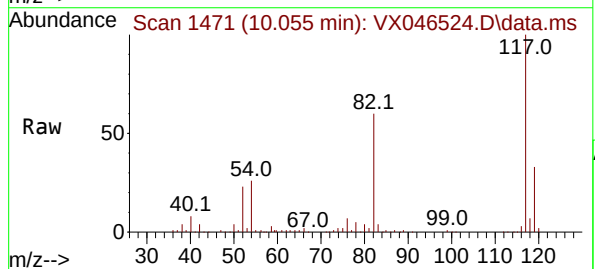
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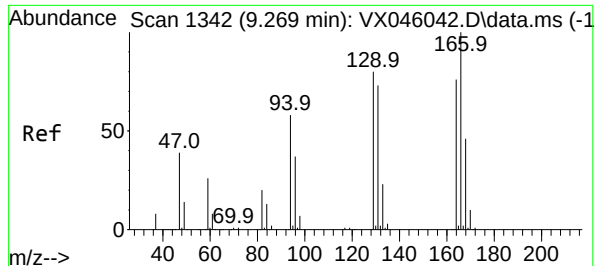
Reviewed By : John Carlone 06/09/2025
Supervised By : Mahesh Dadoda 06/09/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 117 Resp: 144029
Ion Ratio Lower Upper
117 100
82 60.4 50.6 76.0
119 32.5 25.8 38.6



#64
Tetrachloroethene

Concen: 1.227 ug/l

RT: 9.274 min Scan# 118

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:164 Resp: 118

Ion Ratio Lower Upper

164 100

166 110.6 105.0 157.6

129 102.3 83.5 125.3

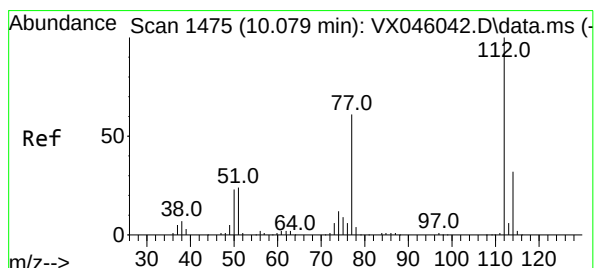
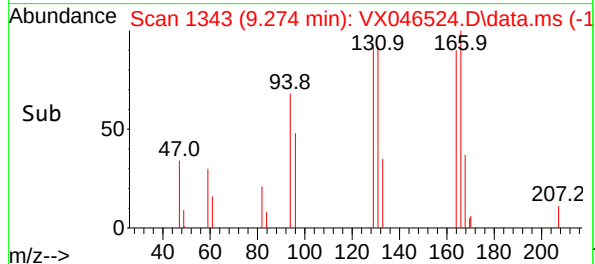
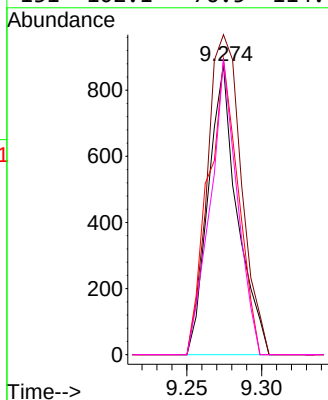
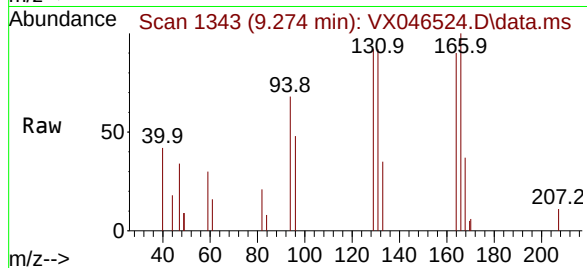
131 102.1 76.5 114.7

Manual Integrations

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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#65

Chlorobenzene

Concen: 1.153 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VX046524.D

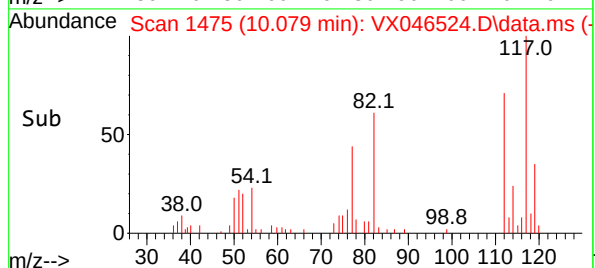
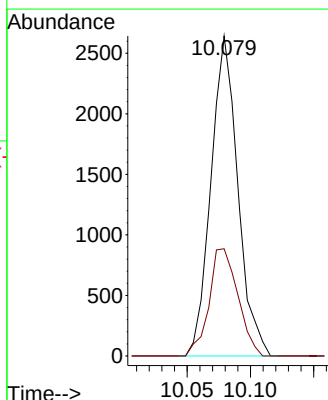
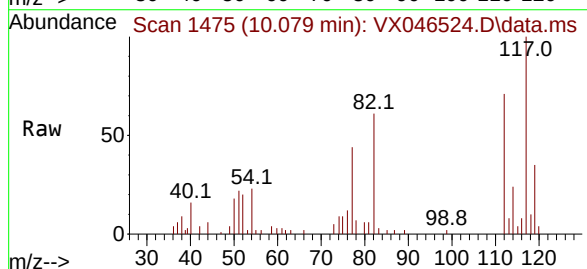
Acq: 06 Jun 2025 12:57

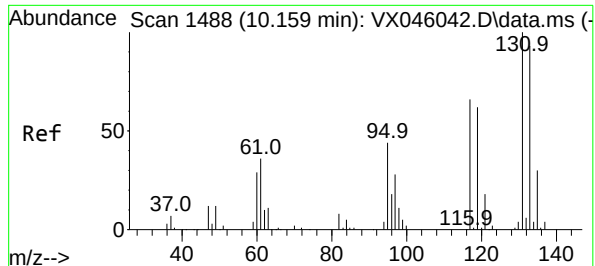
Tgt Ion:112 Resp: 3905

Ion Ratio Lower Upper

112 100

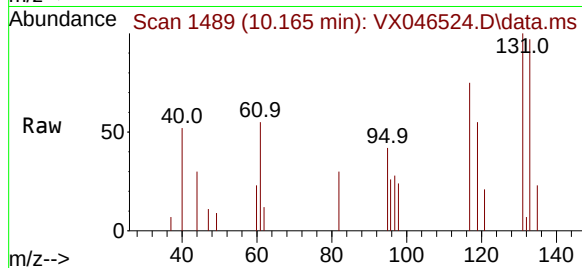
114 33.5 25.4 38.2





#66
1,1,1,2-Tetrachloroethane
Concen: 0.910 ug/l
RT: 10.165 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

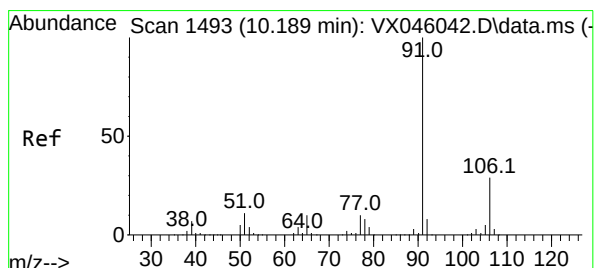
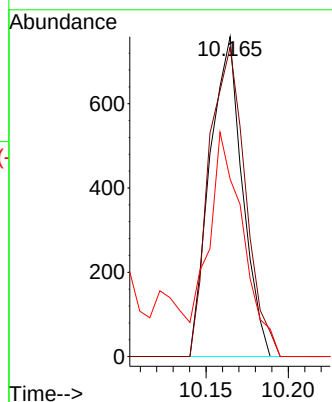
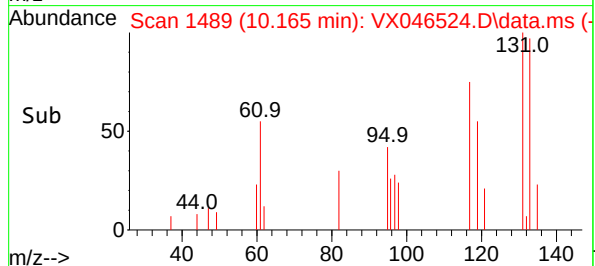
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion:131 Resp: 1042
Ion Ratio Lower Upper
131 100
133 107.8 47.3 141.9
119 0.0 31.6 95.0

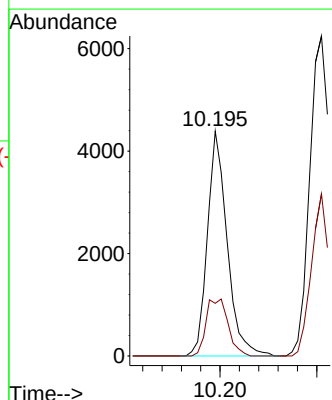
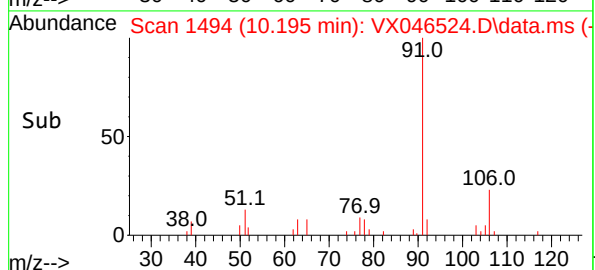
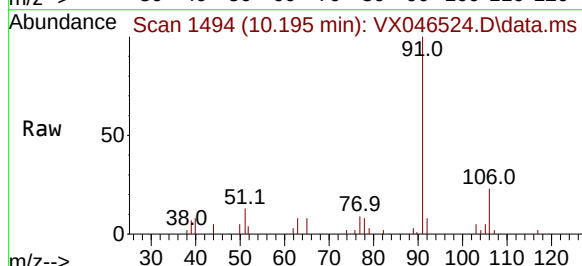
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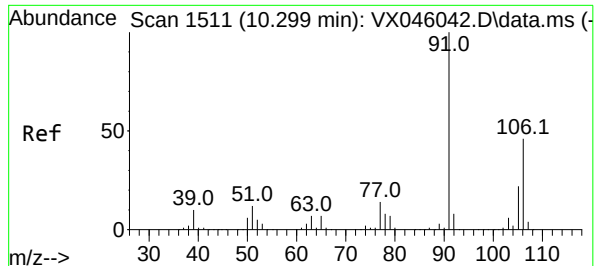
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#67
Ethyl Benzene
Concen: 1.055 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 91 Resp: 6238
Ion Ratio Lower Upper
91 100
106 23.4 23.4 35.2#





#68

m/p-Xylenes

Concen: 2.076 ug/l

RT: 10.305 min Scan# 1511

Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:106 Resp: 4454

Ion Ratio Lower Upper

106 100

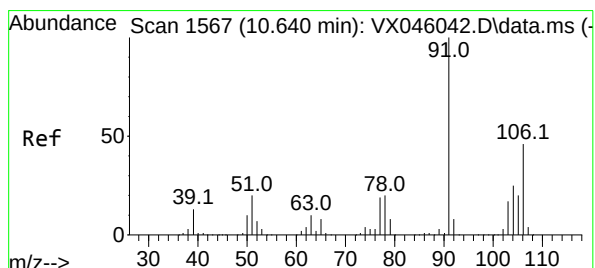
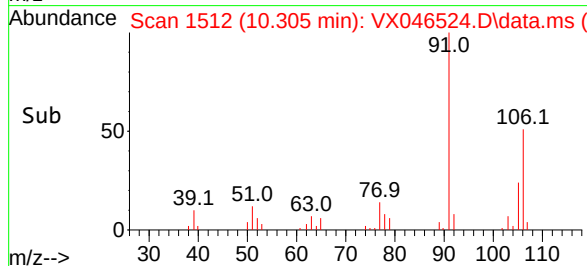
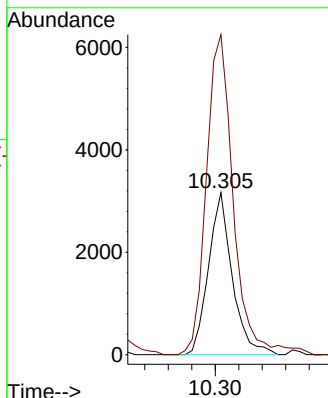
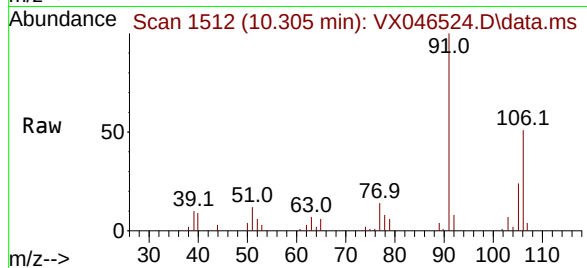
91 223.5 171.2 256.8

Manual Integrations

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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#69

o-Xylene

Concen: 0.999 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX046524.D

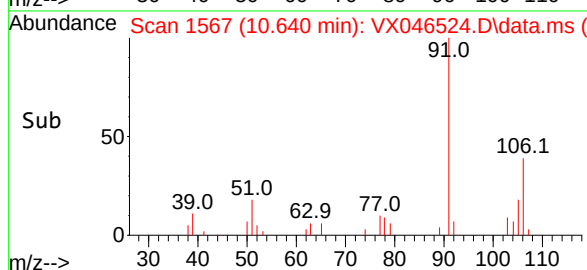
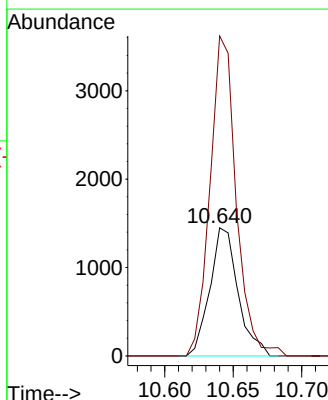
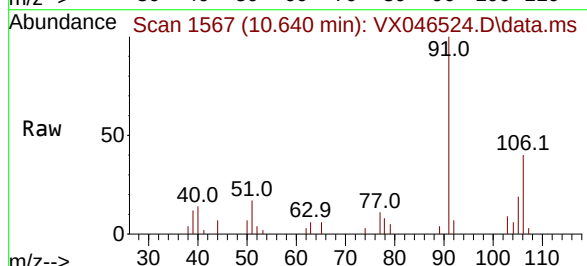
Acq: 06 Jun 2025 12:57

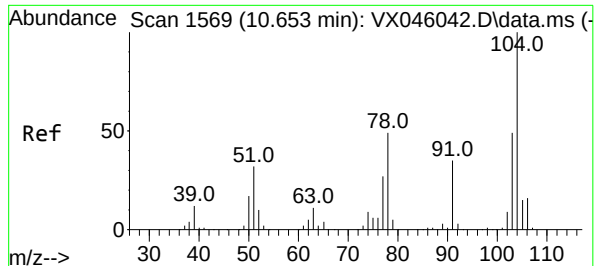
Tgt Ion:106 Resp: 2072

Ion Ratio Lower Upper

106 100

91 232.2 112.7 338.1





#70

Styrene

Concen: 0.980 ug/l

RT: 10.658 min Scan# 1570

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

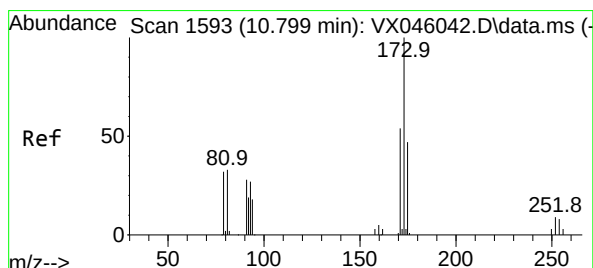
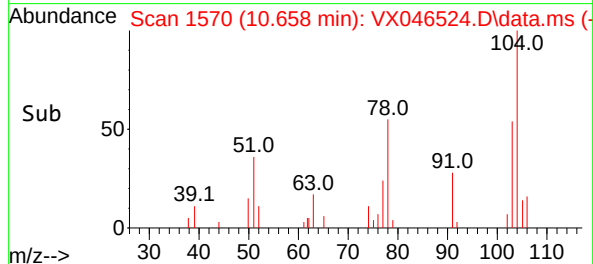
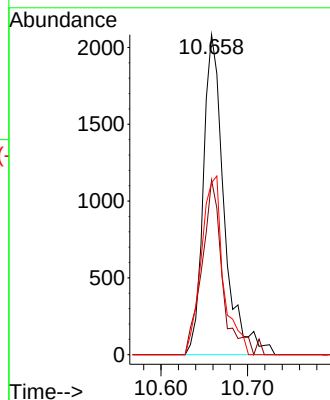
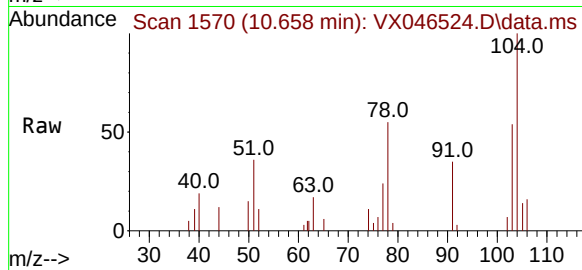
VSTDIC001

Tgt Ion:	104	Resp:	348
Ion	Ratio	Lower	Upper
104	100		
78	54.5	45.7	68.5
103	59.0	43.7	65.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#71

Bromoform

Concen: 0.944 ug/l

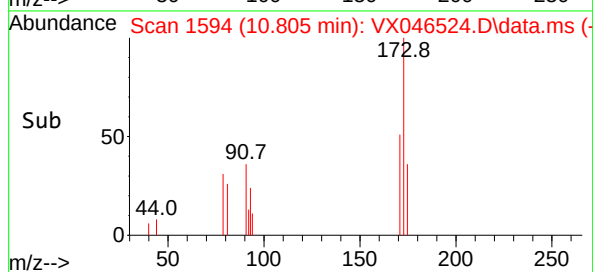
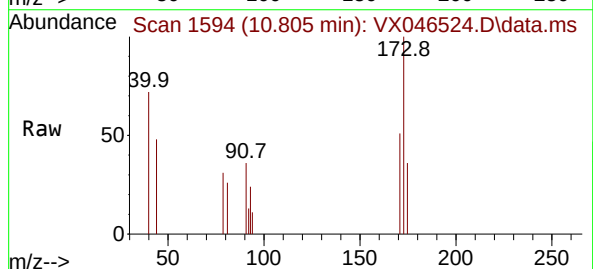
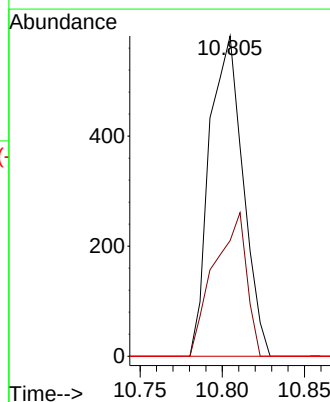
RT: 10.805 min Scan# 1594

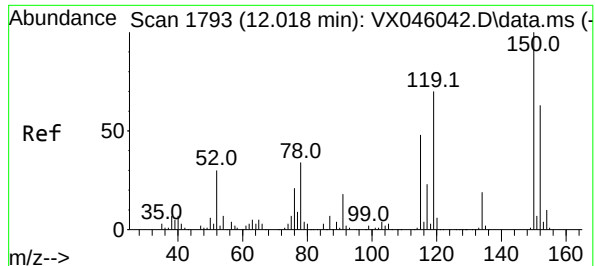
Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion:	173	Resp:	824
Ion	Ratio	Lower	Upper
173	100		
175	43.4	23.4	70.0
254	0.0	0.0	0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:152 Resp: 72344

Ion Ratio Lower Upper

152 100

115 65.2 46.9 140.7

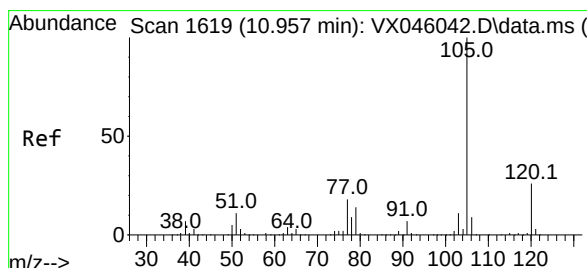
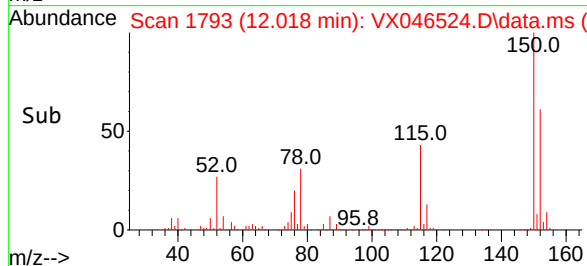
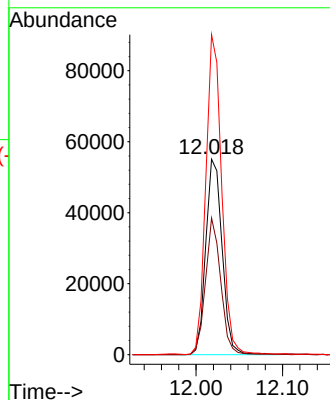
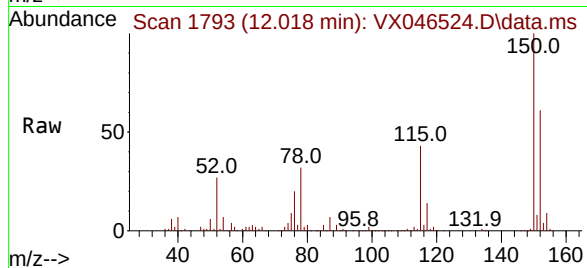
150 157.5 0.0 351.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#73

Isopropylbenzene

Concen: 0.991 ug/l

RT: 10.963 min Scan# 1620

Delta R.T. -0.000 min

Lab File: VX046524.D

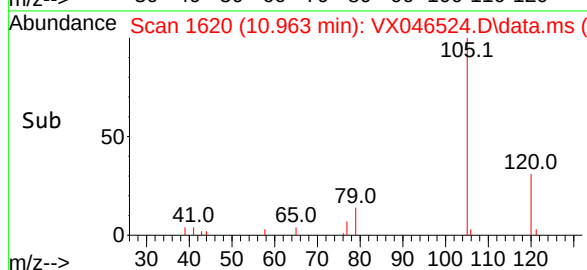
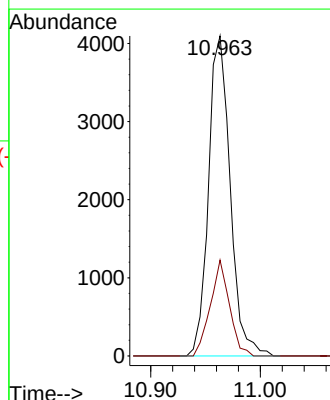
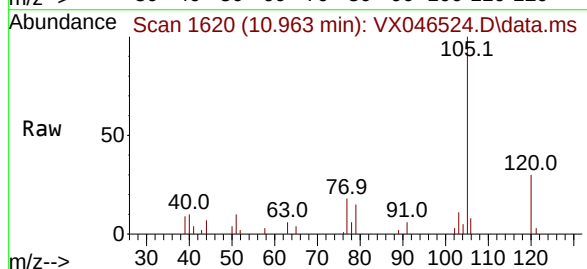
Acq: 06 Jun 2025 12:57

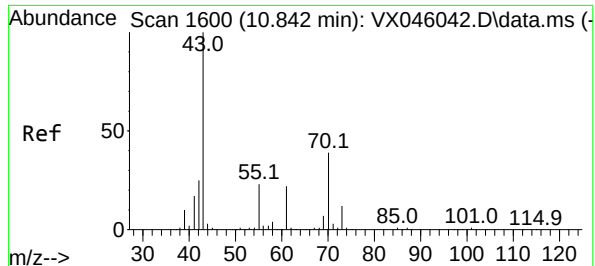
Tgt Ion:105 Resp: 5637

Ion Ratio Lower Upper

105 100

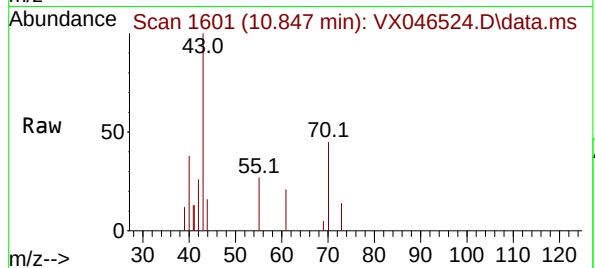
120 26.3 12.8 38.4





#74
N-amy1 acetate
Concen: 0.823 ug/l
RT: 10.847 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

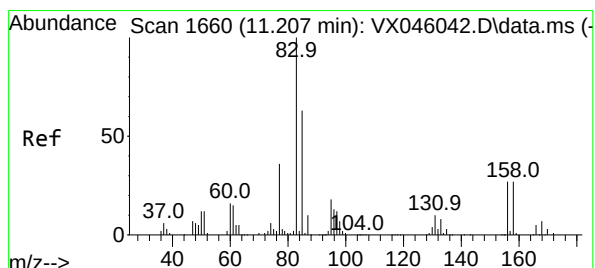
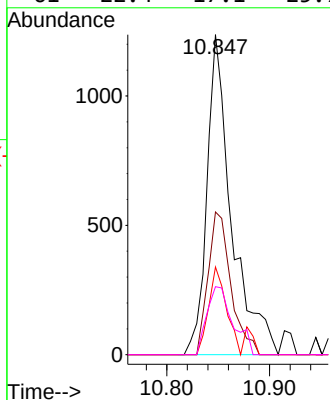
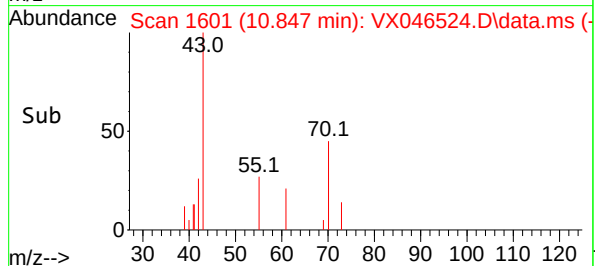
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:	43	Resp:	2060
Ion	Ratio	Lower	Upper
43	100		
70	41.4	30.9	46.3
55	19.9	18.7	28.1
61	22.4	17.1	25.7

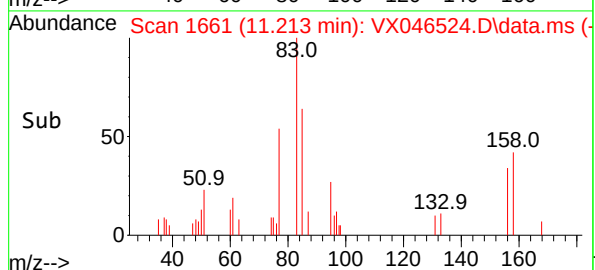
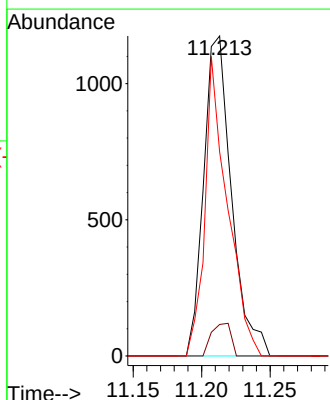
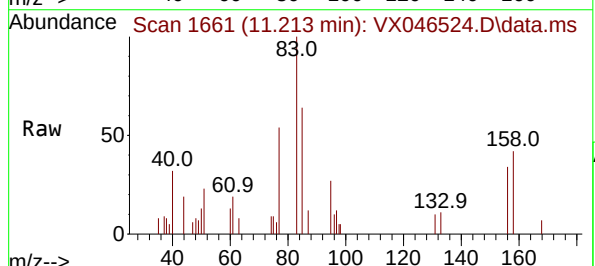
Manual Integrations
APPROVED

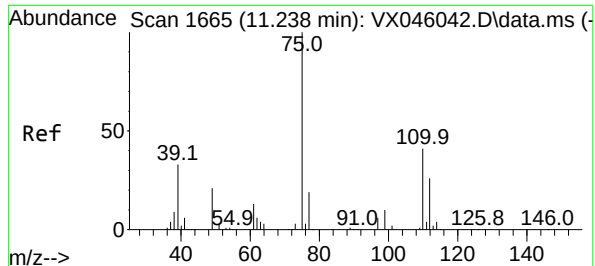
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#75
1,1,2,2-Tetrachloroethane
Concen: 0.912 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion:	83	Resp:	1661
Ion	Ratio	Lower	Upper
83	100		
131	7.1	5.0	14.9
85	75.4	31.9	95.7





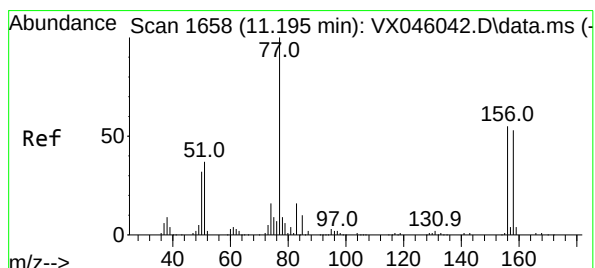
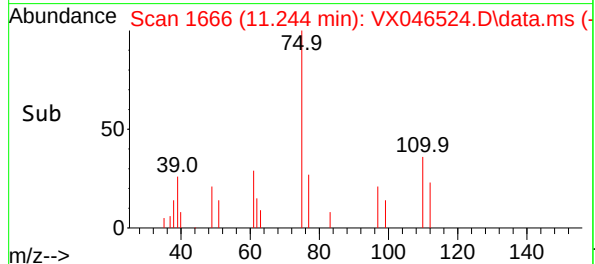
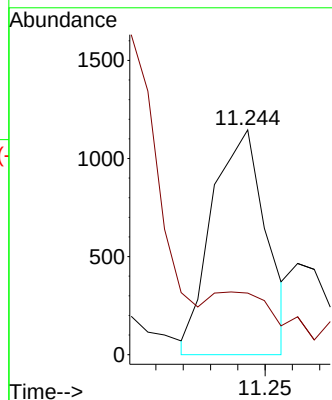
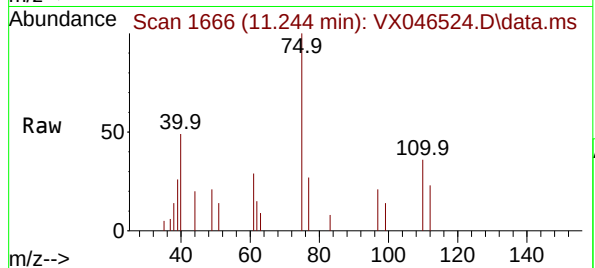
#76
1,2,3-Trichloropropane
Concen: 1.013 ug/l m
RT: 11.244 min Scan# 1666
Delta R.T. 0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 1578
Ion Ratio Lower Upper
75 100
77 8.4 20.5 61.5

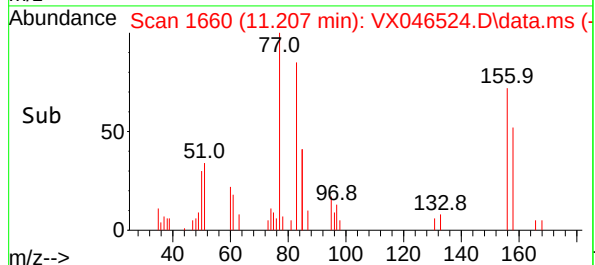
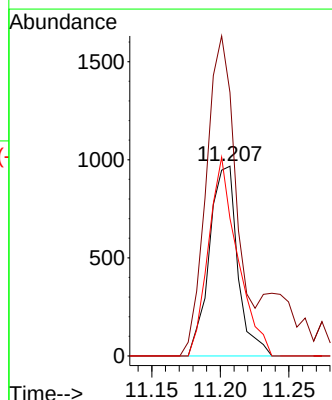
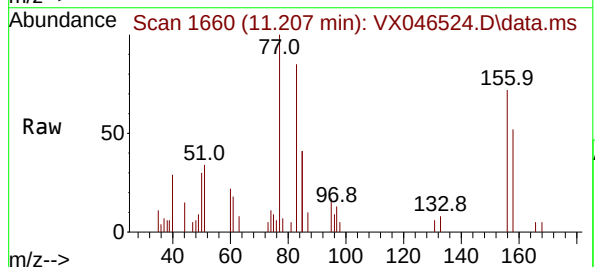
Manual Integrations
APPROVED

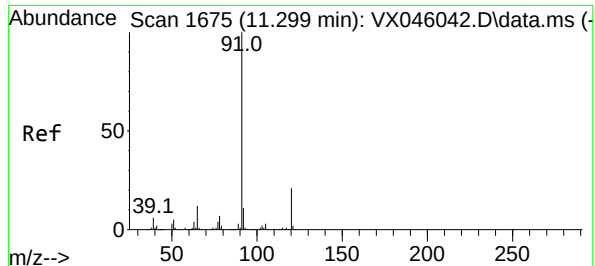
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#77
Bromobenzene
Concen: 1.050 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.012 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion:156 Resp: 1386
Ion Ratio Lower Upper
156 100
77 179.7 92.8 278.3
158 107.9 48.8 146.3





#78

n-propylbenzene

Concen: 1.062 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 7308

Ion Ratio Lower Upper

91 100

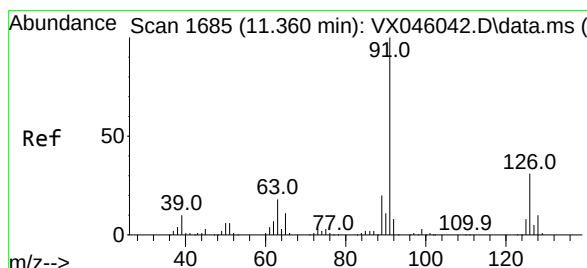
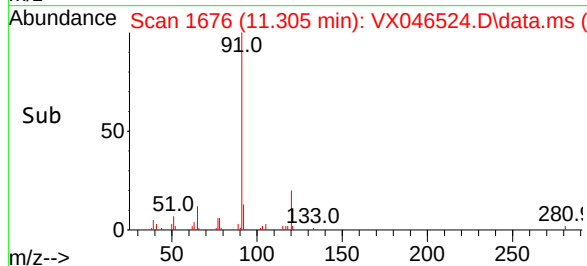
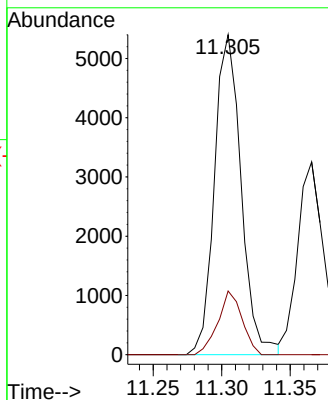
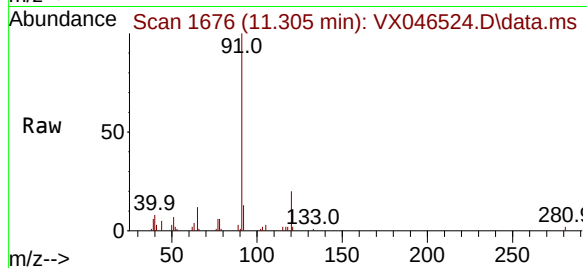
120 18.0 10.8 32.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#79

2-Chlorotoluene

Concen: 1.076 ug/l

RT: 11.366 min Scan# 1686

Delta R.T. -0.000 min

Lab File: VX046524.D

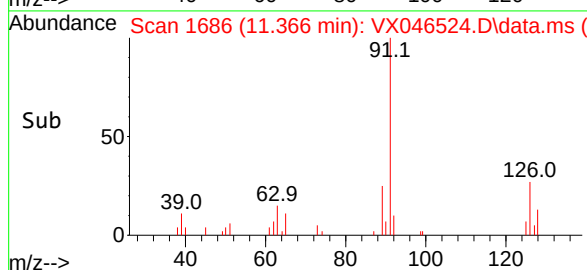
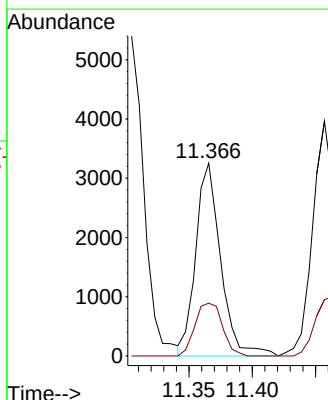
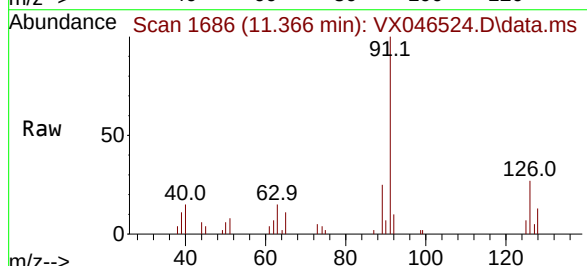
Acq: 06 Jun 2025 12:57

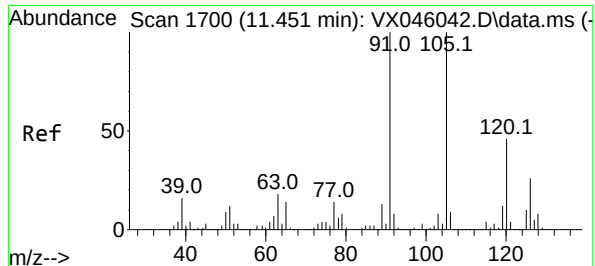
Tgt Ion: 91 Resp: 4466

Ion Ratio Lower Upper

91 100

126 30.2 15.6 46.7





#80

1,3,5-Trimethylbenzene

Concen: 1.014 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 4800

Ion Ratio Lower Upper

105 100

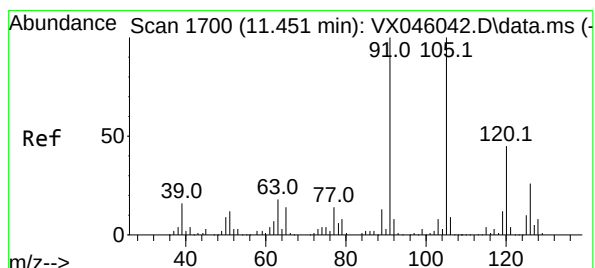
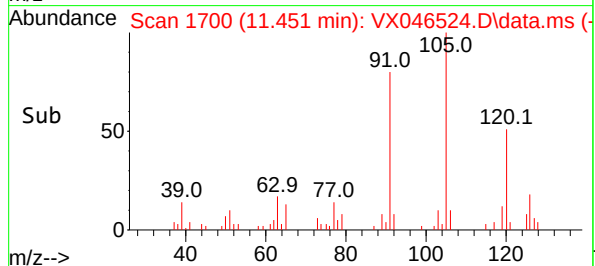
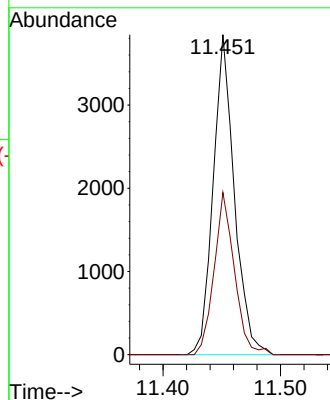
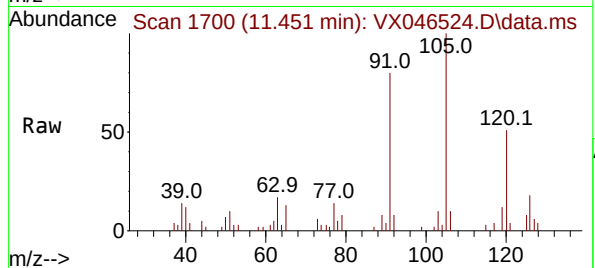
120 48.9 23.1 69.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#82

4-Chlorotoluene

Concen: 1.139 ug/l

RT: 11.457 min Scan# 1701

Delta R.T. 0.006 min

Lab File: VX046524.D

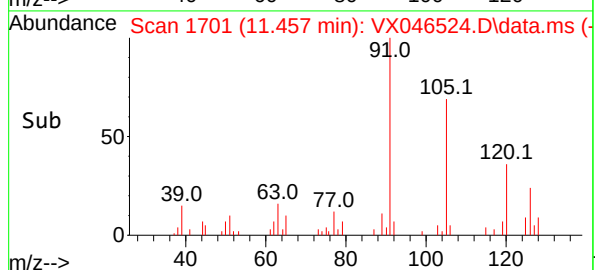
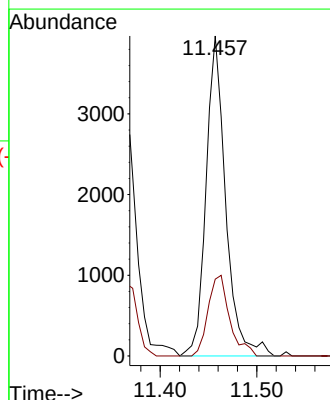
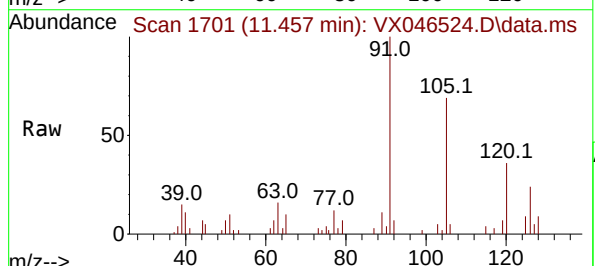
Acq: 06 Jun 2025 12:57

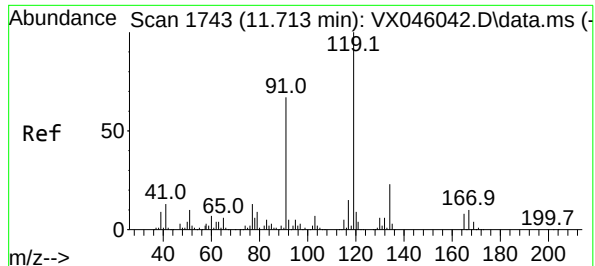
Tgt Ion: 91 Resp: 5603

Ion Ratio Lower Upper

91 100

126 27.6 13.3 39.8





#83

tert-Butylbenzene

Concen: 0.985 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

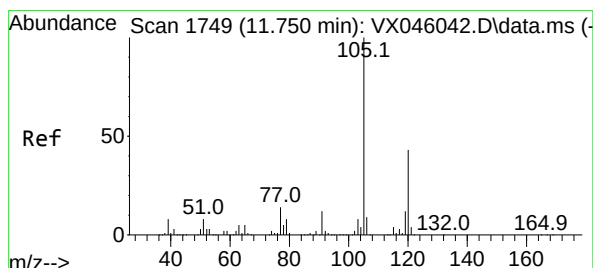
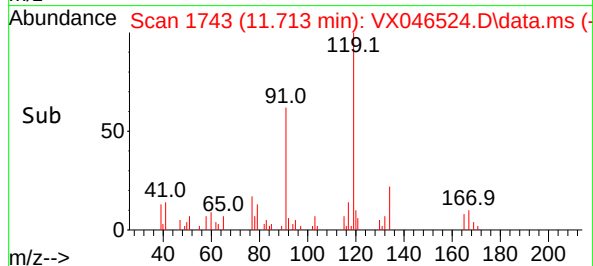
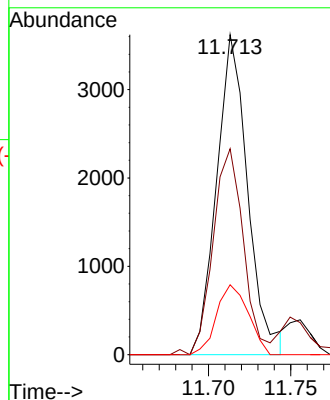
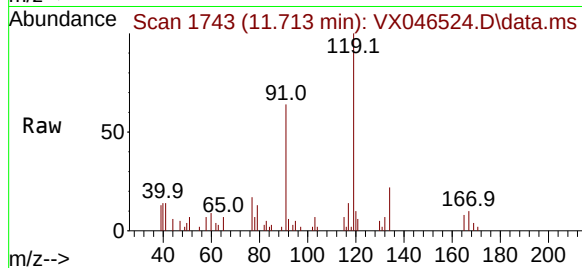
Tgt Ion:	119	Resp:	475
Ion	Ratio	Lower	Upper
119	100		
91	63.1	32.9	98.7
134	22.4	11.4	34.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#84

1,2,4-Trimethylbenzene

Concen: 1.028 ug/l

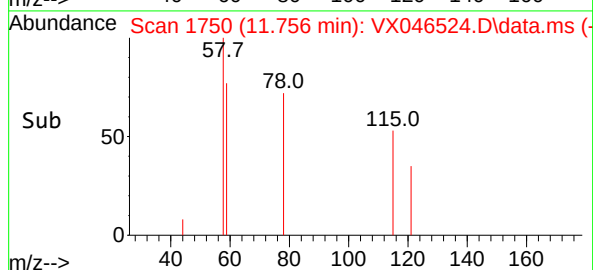
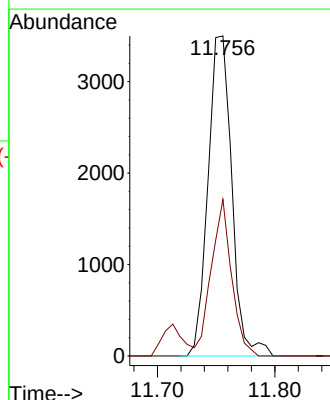
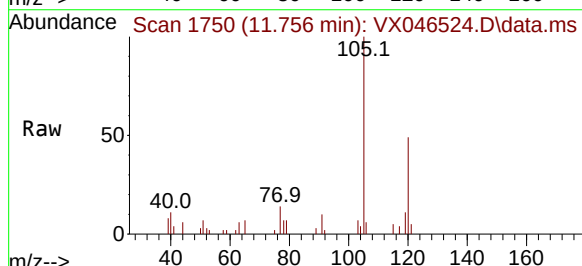
RT: 11.756 min Scan# 1750

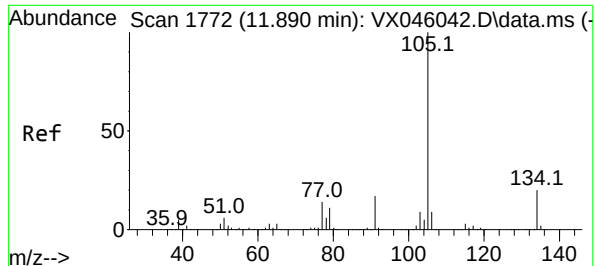
Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion:	105	Resp:	4928
Ion	Ratio	Lower	Upper
105	100		
120	41.7	21.2	63.6





#85

sec-Butylbenzene

Concen: 1.041 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 6450

Ion Ratio Lower Upper

105 100

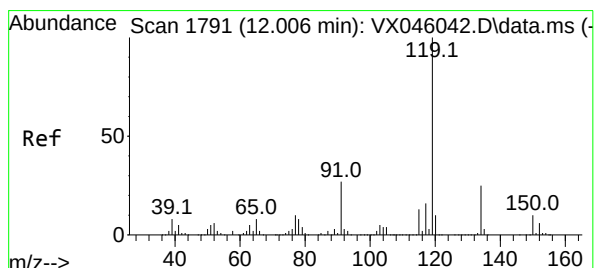
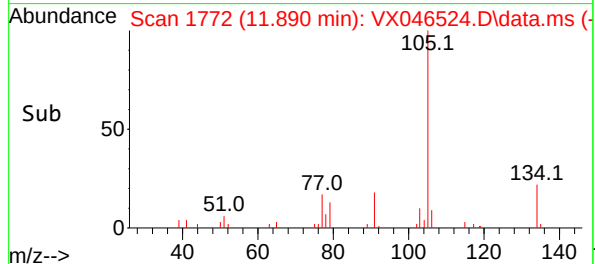
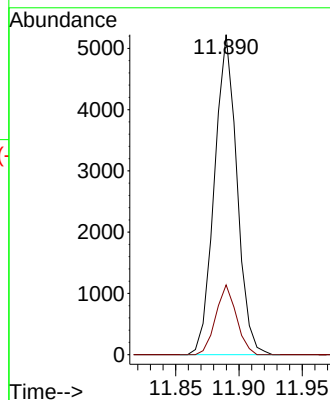
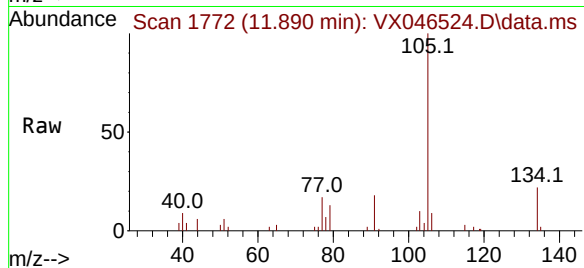
134 19.9 9.7 29.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#86

p-Isopropyltoluene

Concen: 1.095 ug/l

RT: 12.012 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

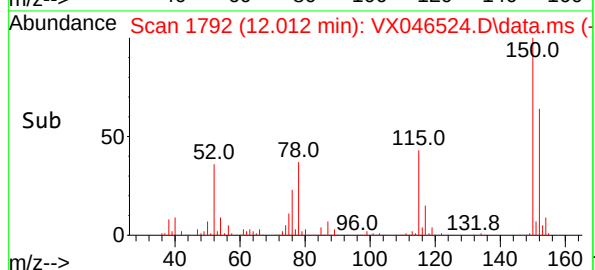
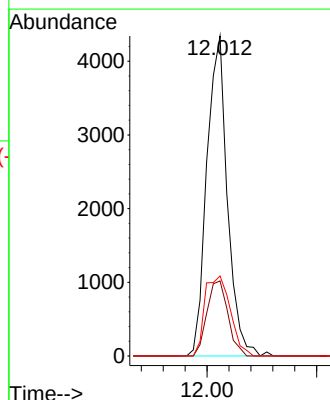
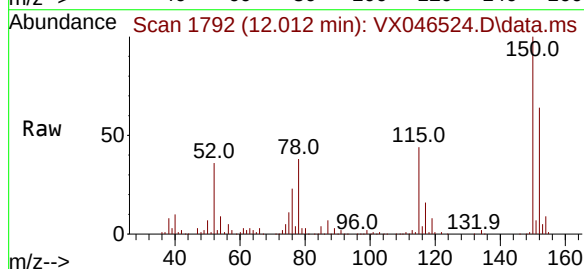
Tgt Ion:119 Resp: 5657

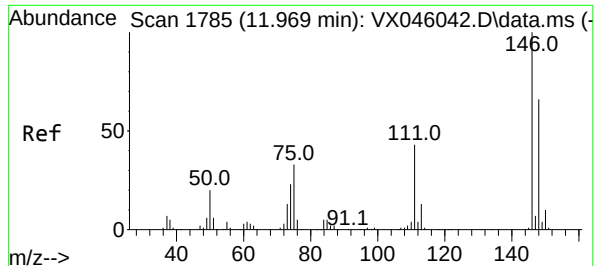
Ion Ratio Lower Upper

119 100

134 23.9 12.5 37.5

91 30.9 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 1.188 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

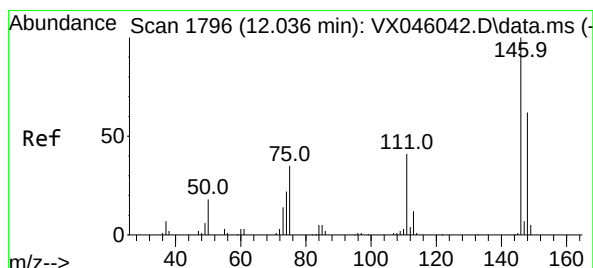
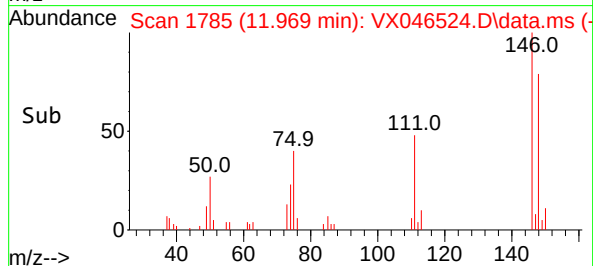
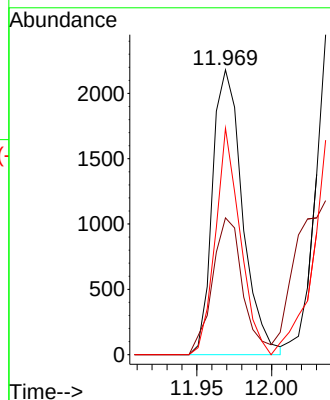
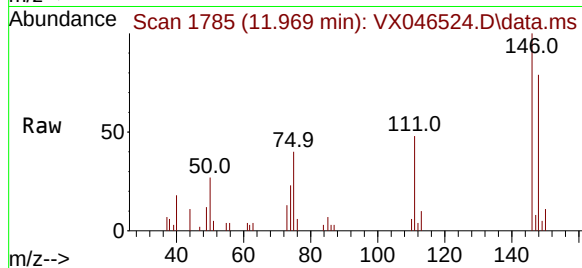
VSTDIC001

Tgt Ion:	146	Resp:	304
Ion Ratio	Lower	Upper	
146	100		
111	48.8	22.1	66.3
148	65.5	32.1	96.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 1.319 ug/l m

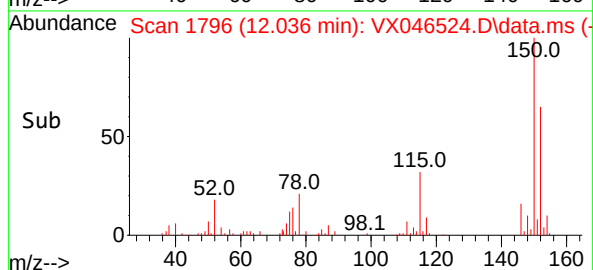
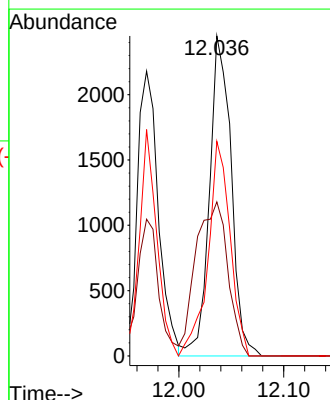
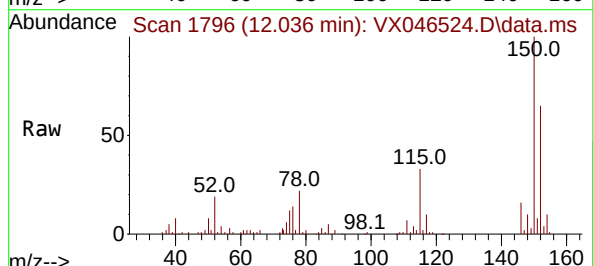
RT: 12.036 min Scan# 1796

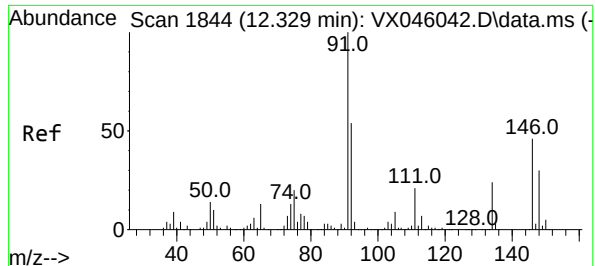
Delta R.T. -0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion:	146	Resp:	3503
Ion Ratio	Lower	Upper	
146	100		
111	42.4	21.3	63.9
148	56.9	31.9	95.5





#89

n-Butylbenzene

Concen: 1.197 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

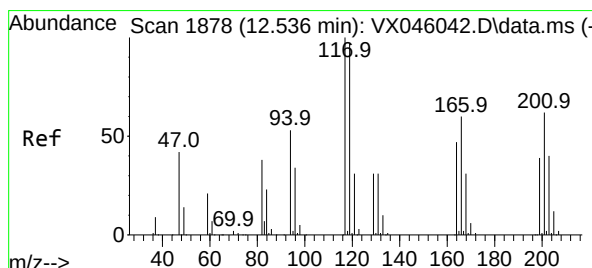
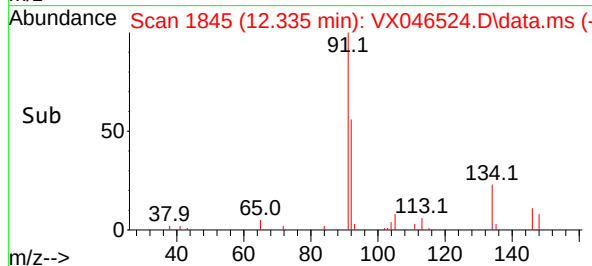
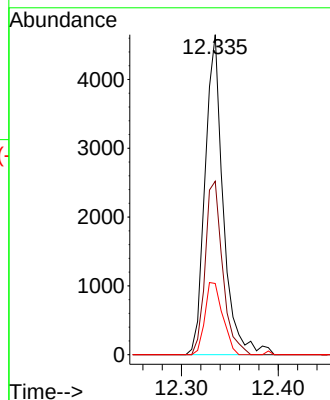
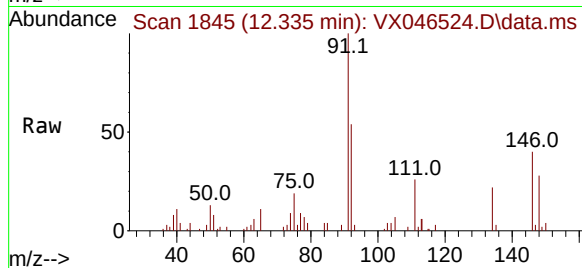
ClientSampleId :

VSTDIC001

Tgt Ion: 91	Resp: 607
Ion Ratio	Lower Upper
91	100
92	52.1 26.9 80.7
134	22.1 11.8 35.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 1.075 ug/l

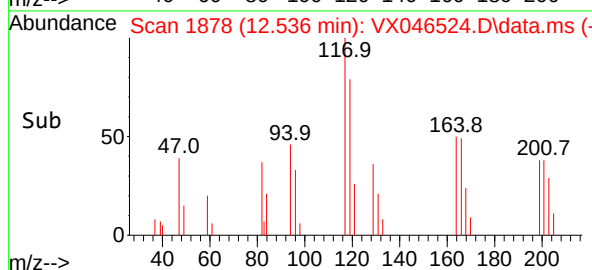
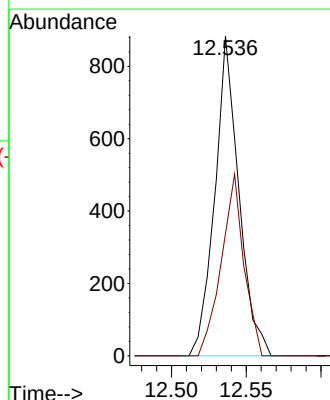
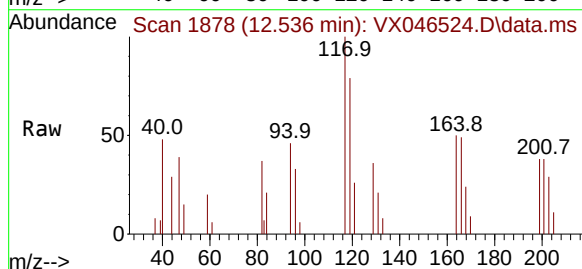
RT: 12.536 min Scan# 1878

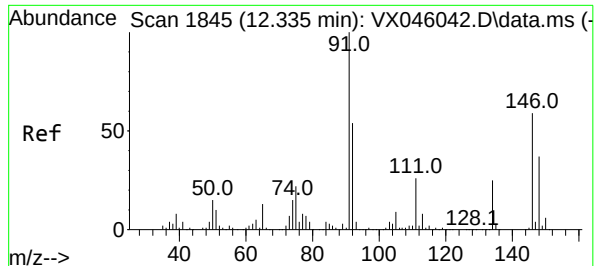
Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

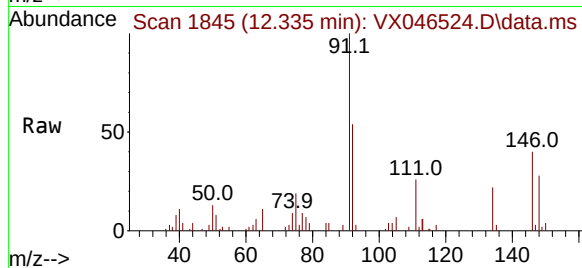
Tgt Ion: 117	Resp: 987
Ion Ratio	Lower Upper
117	100
201	53.5 31.6 94.7





#91
1,2-Dichlorobenzene
Concen: 1.116 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

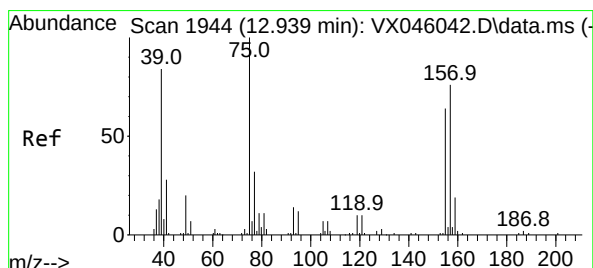
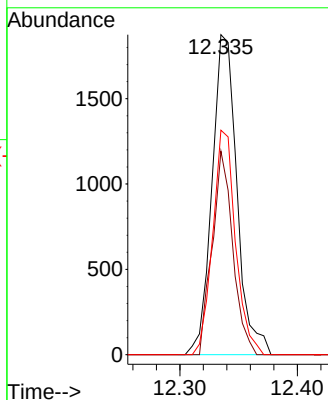
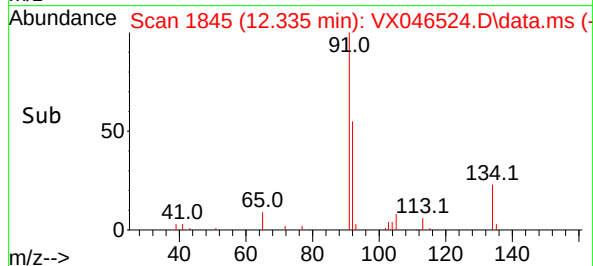
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



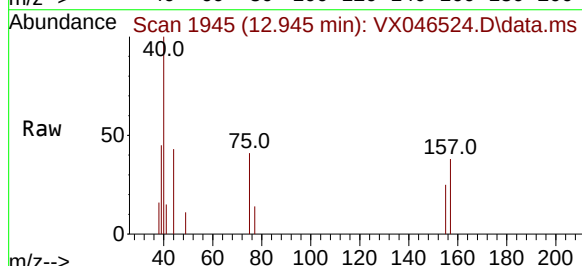
Tgt Ion:146 Resp: 276
Ion Ratio Lower Upper
146 100
111 52.6 22.4 67.3
148 64.4 31.6 94.8

Manual Integrations
APPROVED

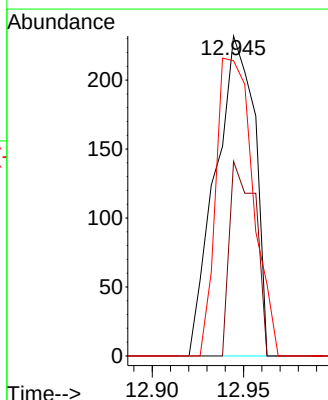
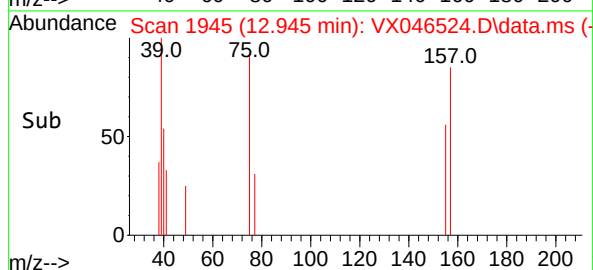
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

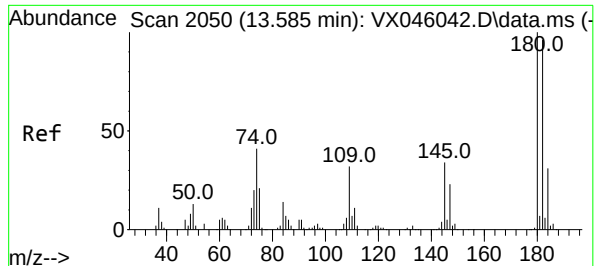


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.846 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57



Tgt Ion: 75 Resp: 345
Ion Ratio Lower Upper
75 100
155 40.0 34.9 104.8
157 88.1 43.8 131.4





#93

1,2,4-Trichlorobenzene

Concen: 1.297 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

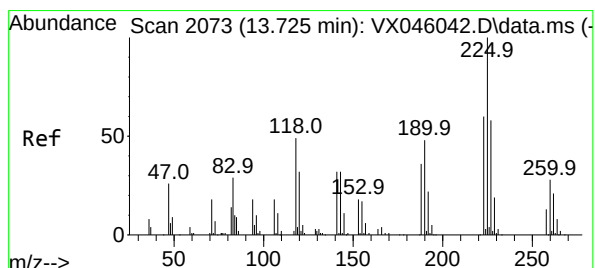
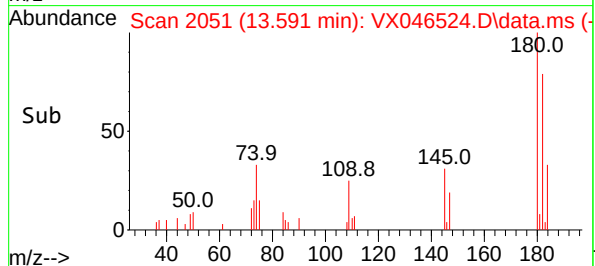
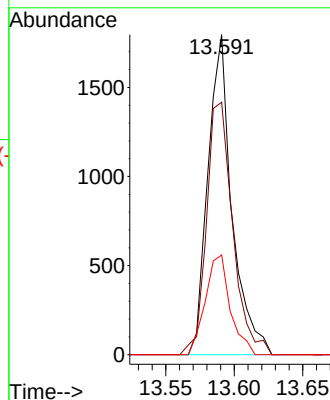
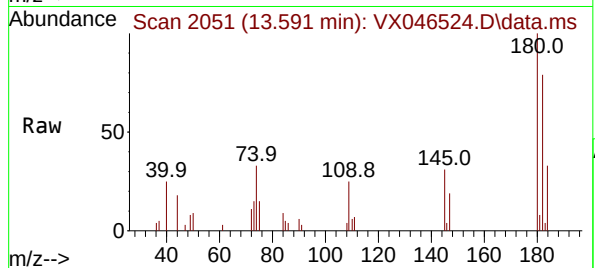
Tgt Ion:	180	Resp:	2189
Ion Ratio	Lower	Upper	
180	100		
182	86.2	47.9	143.8
145	32.3	17.1	51.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#94

Hexachlorobutadiene

Concen: 1.283 ug/l

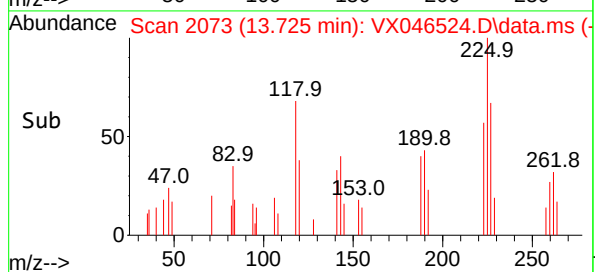
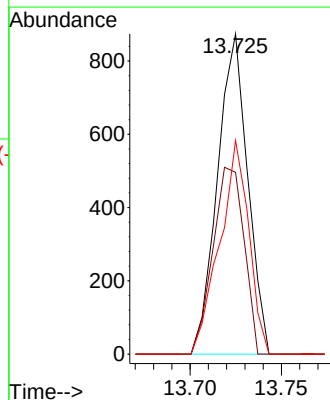
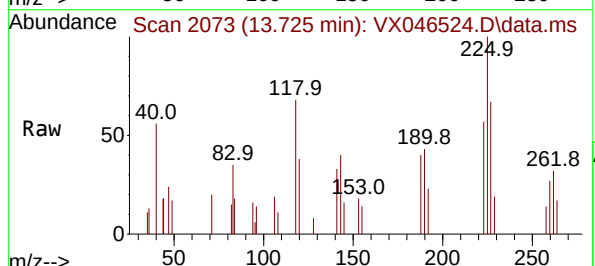
RT: 13.725 min Scan# 2073

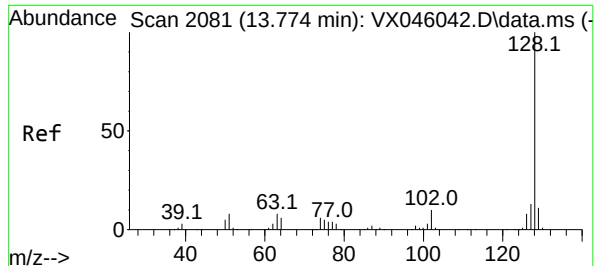
Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion:	225	Resp:	1006
Ion Ratio	Lower	Upper	
225	100		
223	59.9	30.8	92.4
227	64.2	30.9	92.7





#95

Naphthalene

Concen: 1.023 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

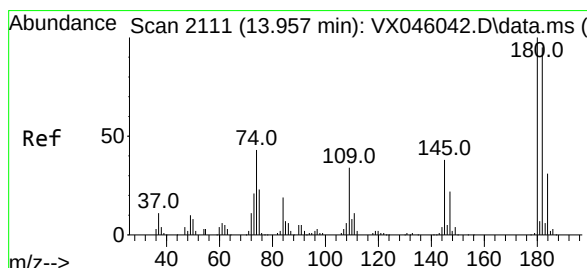
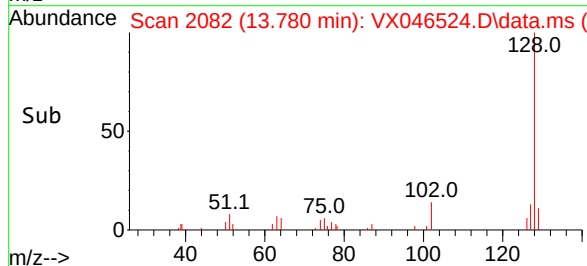
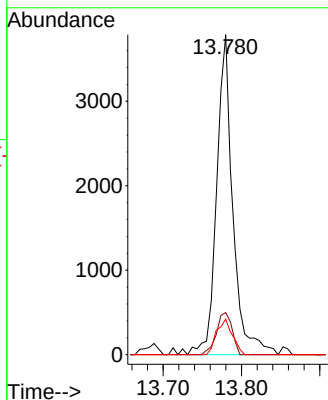
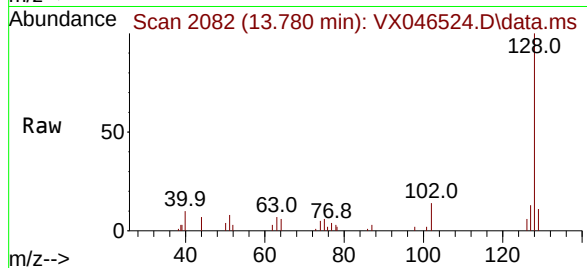
VSTDIC001

Tgt Ion:	128	Resp:	5474
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.4	15.6
129	10.8	8.6	13.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#96

1,2,3-Trichlorobenzene

Concen: 1.283 ug/l

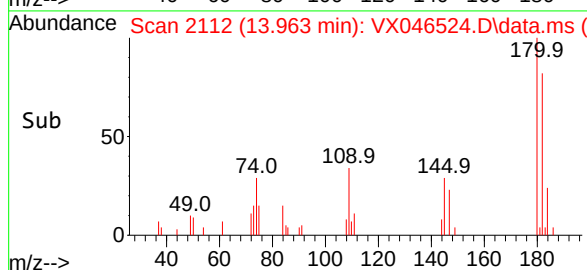
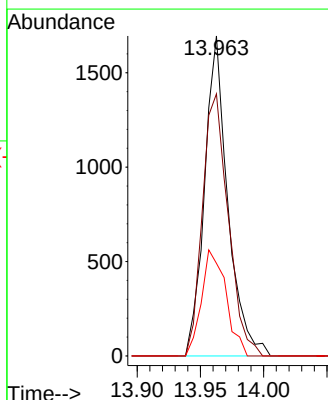
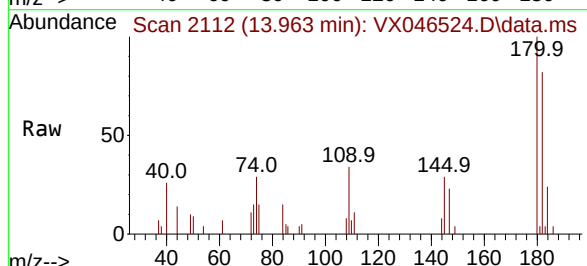
RT: 13.963 min Scan# 2112

Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion:	180	Resp:	2171
Ion	Ratio	Lower	Upper
180	100		
182	90.5	47.8	143.3
145	34.9	18.1	54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046525.D
 Acq On : 06 Jun 2025 14:11
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX060625

Quant Time: Jun 06 16:57:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	87638	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	151058	50.000	ug/l	-0.01
63) Chlorobenzene-d5	10.055	117	132539	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	65454	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.958	65	78349	50.250	ug/l	-0.01
Spiked Amount	50.000	Range	74 - 125	Recovery	= 100.500%	
35) Dibromofluoromethane	5.391	113	56698	51.039	ug/l	-0.01
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.080%	
50) Toluene-d8	8.647	98	183212	50.025	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.040%	
62) 4-Bromofluorobenzene	11.079	95	75584	49.880	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 99.760%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.179	85	59758	49.116	ug/l	98
3) Chloromethane	1.307	50	53337	48.162	ug/l	98
4) Vinyl Chloride	1.386	62	54649	49.502	ug/l	99
5) Bromomethane	1.618	94	34113	50.900	ug/l	93
6) Chloroethane	1.697	64	33633	46.955	ug/l	93
7) Trichlorofluoromethane	1.898	101	90940	49.788	ug/l	100
8) Diethyl Ether	2.142	74	32152	49.819	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.343	101	57034	49.561	ug/l	97
10) Methyl Iodide	2.465	142	67786	54.338	ug/l	100
11) Tert butyl alcohol	2.965	59	47374	273.823	ug/l	99
12) 1,1-Dichloroethene	2.331	96	51107	49.119	ug/l	99
13) Acrolein	2.246	56	51802	247.857	ug/l	98
14) Allyl chloride	2.678	41	105373	51.566	ug/l	94
15) Acrylonitrile	3.069	53	174229	266.347	ug/l	98
16) Acetone	2.386	43	157823	257.624	ug/l	99
17) Carbon Disulfide	2.526	76	110616	50.069	ug/l	98
18) Methyl Acetate	2.715	43	106595	57.396	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	195706	53.754	ug/l	98
20) Methylene Chloride	2.800	84	60058	48.013	ug/l	96
21) trans-1,2-Dichloroethene	3.099	96	52668	47.832	ug/l	96
22) Diisopropyl ether	3.770	45	212853	52.834	ug/l #	80
23) Vinyl Acetate	3.727	43	827531	266.053	ug/l	99
24) 1,1-Dichloroethane	3.617	63	115021	51.227	ug/l	98
25) 2-Butanone	4.562	43	232201	267.525	ug/l	99
26) 2,2-Dichloropropane	4.483	77	89180	53.502	ug/l	99
27) cis-1,2-Dichloroethene	4.501	96	66779	49.265	ug/l	99
28) Bromochloromethane	4.904	49	52893	49.390	ug/l	99
29) Tetrahydrofuran	5.013	42	146302	266.904	ug/l	98
30) Chloroform	5.099	83	119994	51.004	ug/l	95
31) Cyclohexane	5.477	56	88988	49.093	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	103945	51.651	ug/l	97
36) 1,1-Dichloropropene	5.696	75	75696	47.703	ug/l	99
37) Ethyl Acetate	4.721	43	90139	58.203	ug/l	99
38) Carbon Tetrachloride	5.684	117	87750	49.372	ug/l	96
39) Methylcyclohexane	7.385	83	89168	47.608	ug/l	99
40) Benzene	6.044	78	221890	49.672	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046525.D
 Acq On : 06 Jun 2025 14:11
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX060625

Manual Integrations APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:57:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	54128	56.282	ug/l	97
42) 1,2-Dichloroethane	6.092	62	94588	50.897	ug/l	99
43) Isopropyl Acetate	6.342	43	146579	54.290	ug/l	100
44) Trichloroethene	7.129	130	54213	47.764	ug/l	96
45) 1,2-Dichloropropane	7.434	63	59286	51.417	ug/l	99
46) Dibromomethane	7.586	93	44071	50.807	ug/l	99
47) Bromodichloromethane	7.824	83	94362	52.906	ug/l	97
48) Methyl methacrylate	7.696	41	76134	54.806	ug/l	97
49) 1,4-Dioxane	7.659	88	20118	1082.971	ug/l	94
51) 4-Methyl-2-Pentanone	8.574	43	466259	271.760	ug/l	100
52) Toluene	8.714	92	136448	49.719	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	85596	53.526	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	92273	51.896	ug/l	91
55) 1,1,2-Trichloroethane	9.153	97	57283	51.993	ug/l	98
56) Ethyl methacrylate	9.116	69	92299	54.440	ug/l	97
57) 1,3-Dichloropropane	9.305	76	98748	50.718	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.245	63	240616	260.553	ug/l	100
59) 2-Hexanone	9.427	43	337353	274.165	ug/l	99
60) Dibromochloromethane	9.519	129	68814	53.100	ug/l	97
61) 1,2-Dibromoethane	9.610	107	57046	49.689	ug/l	96
64) Tetrachloroethene	9.275	164	42310	47.739	ug/l	97
65) Chlorobenzene	10.080	112	154357	49.518	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	55536	52.723	ug/l	100
67) Ethyl Benzene	10.195	91	273659	50.288	ug/l	98
68) m/p-Xylenes	10.299	106	199258	100.941	ug/l	99
69) o-Xylene	10.640	106	97151	50.882	ug/l	99
70) Styrene	10.653	104	169628	51.899	ug/l	100
71) Bromoform	10.799	173	42728	53.200	ug/l #	99
73) Isopropylbenzene	10.957	105	266347	51.765	ug/l	100
74) N-amyl acetate	10.842	43	125656	55.456	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	86308	52.405	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	73842m	53.262	ug/l	
77) Bromobenzene	11.195	156	60607	50.748	ug/l	98
78) n-propylbenzene	11.305	91	316743	50.860	ug/l	100
79) 2-Chlorotoluene	11.360	91	191582	51.014	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	221291	51.612	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	26534	55.208	ug/l	97
82) 4-Chlorotoluene	11.451	91	224207	50.368	ug/l	99
83) tert-Butylbenzene	11.713	119	226613	51.919	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	223226	51.464	ug/l	99
85) sec-Butylbenzene	11.890	105	284027	50.644	ug/l	100
86) p-Isopropyltoluene	12.006	119	237583	50.815	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	114034	49.171	ug/l	99
88) 1,4-Dichlorobenzene	12.037	146	114838	47.788	ug/l	99
89) n-Butylbenzene	12.329	91	232333	50.601	ug/l	100
90) Hexachloroethane	12.536	117	42498	51.141	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	111587	49.847	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	20611	55.886	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	75169	49.224	ug/l	99
94) Hexachlorobutadiene	13.725	225	33512	47.222	ug/l	98
95) Naphthalene	13.774	128	257845	53.245	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	75157	49.082	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046525.D
Acq On : 06 Jun 2025 14:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:57:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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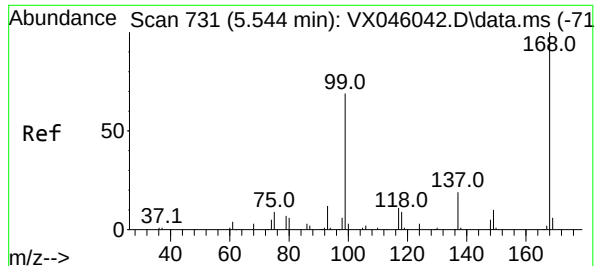
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Manual Integrations APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025





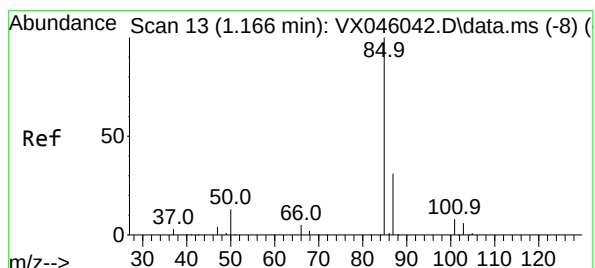
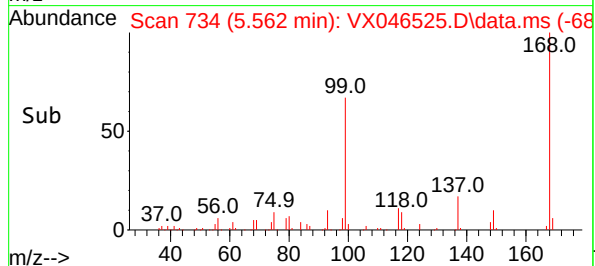
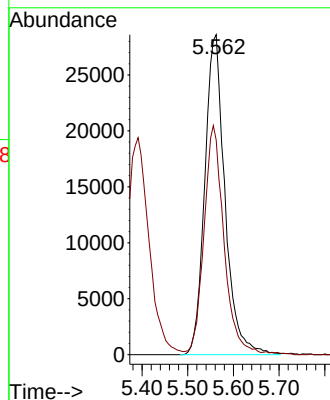
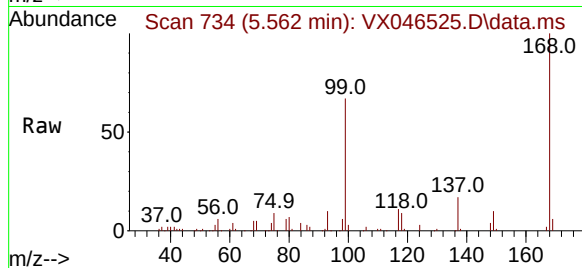
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Tgt Ion:168 Resp: 87638
Ion Ratio Lower Upper
168 100
99 66.6 54.9 82.3

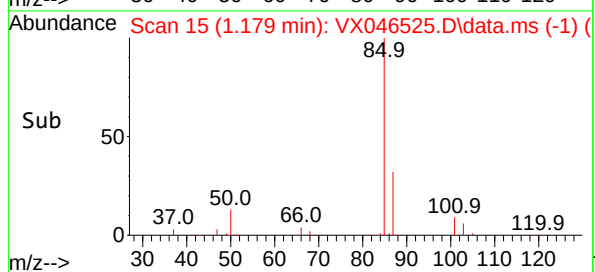
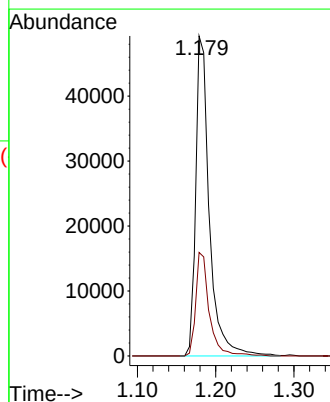
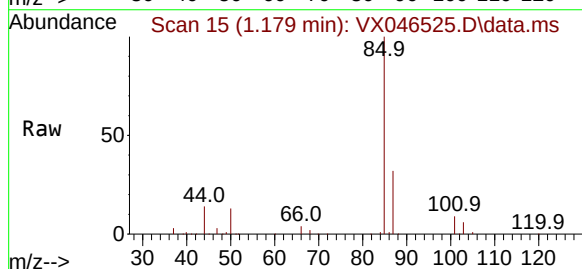
Manual Integrations
APPROVED

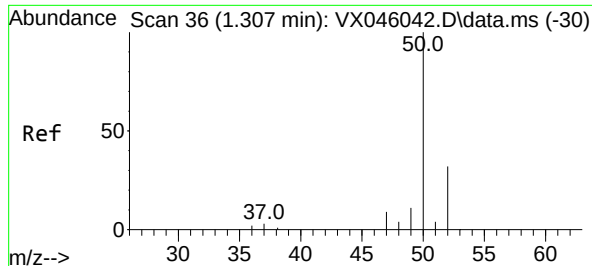
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 49.116 ug/l
RT: 1.179 min Scan# 15
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Tgt Ion: 85 Resp: 59758
Ion Ratio Lower Upper
85 100
87 32.3 15.7 47.1





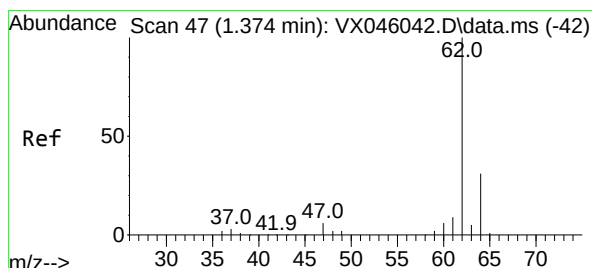
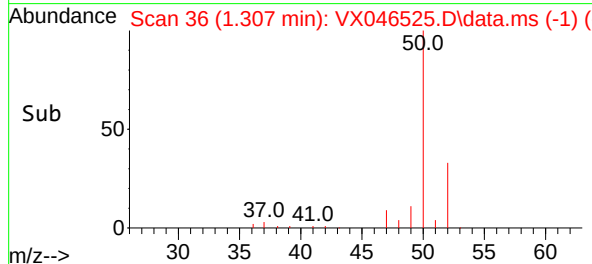
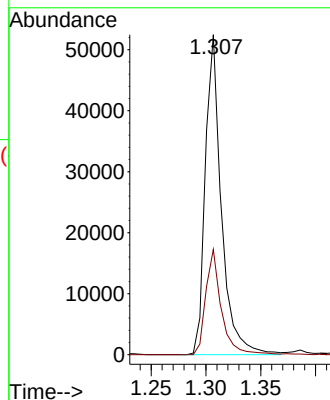
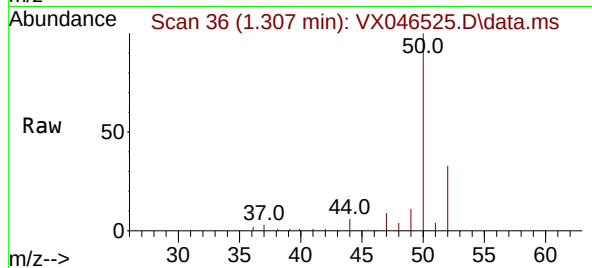
#3
Chloromethane
Concen: 48.162 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Tgt Ion: 50 Resp: 5333
Ion Ratio Lower Upper
50 100
52 32.9 25.4 38.2

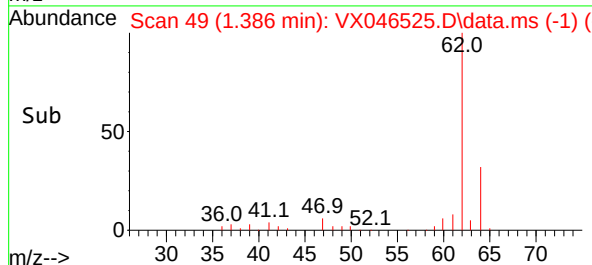
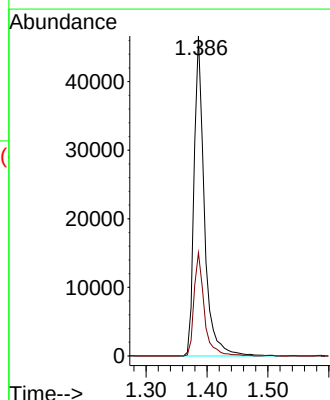
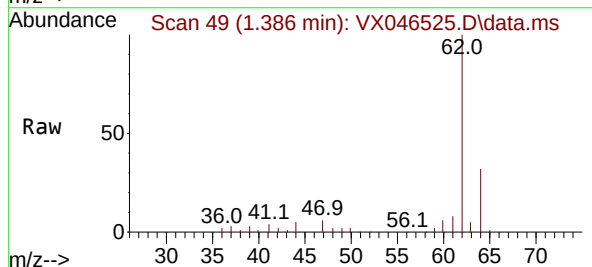
Manual Integrations
APPROVED

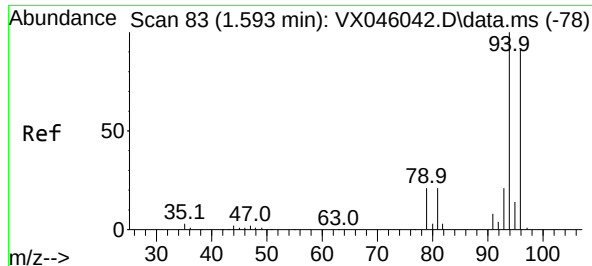
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 49.502 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Tgt Ion: 62 Resp: 54649
Ion Ratio Lower Upper
62 100
64 32.3 25.2 37.8





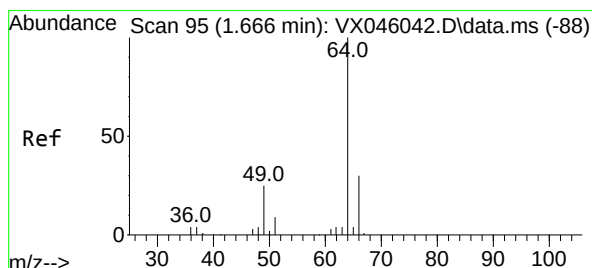
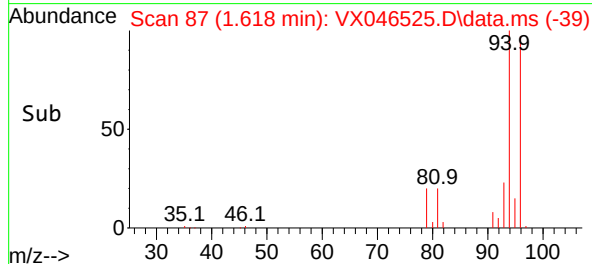
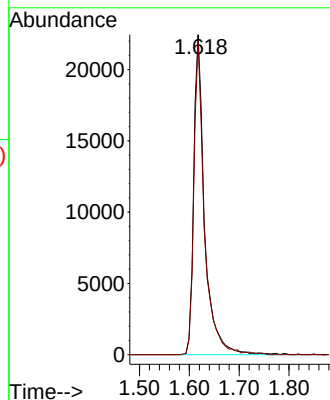
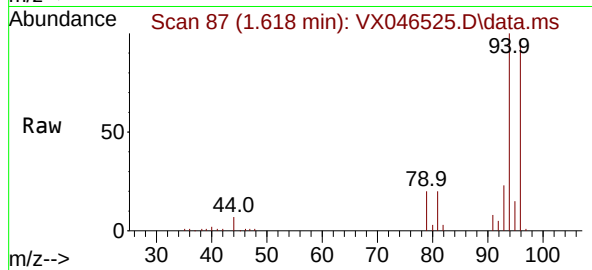
#5
Bromomethane
Concen: 50.900 ug/l
RT: 1.618 min Scan# 81
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Tgt Ion: 94 Resp: 3411
Ion Ratio Lower Upper
94 100
96 97.5 72.8 109.2

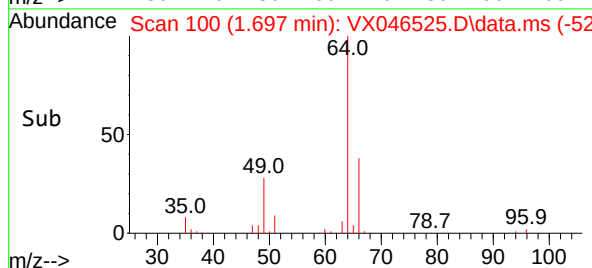
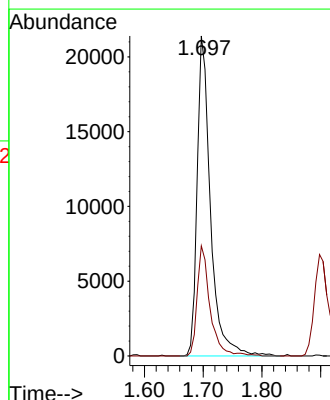
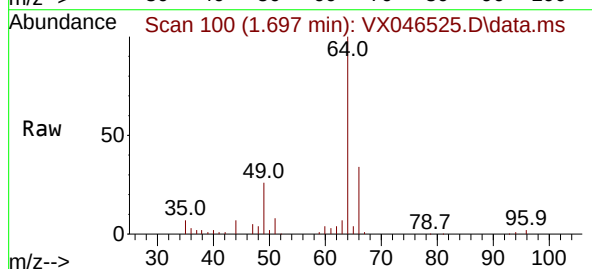
Manual Integrations
APPROVED

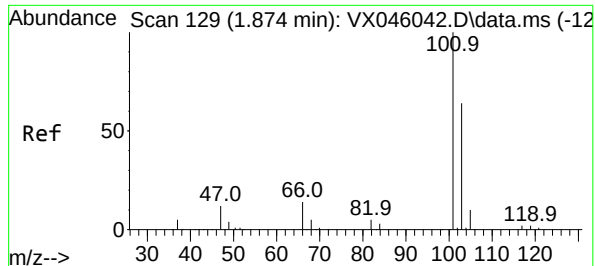
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#6
Chloroethane
Concen: 46.955 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

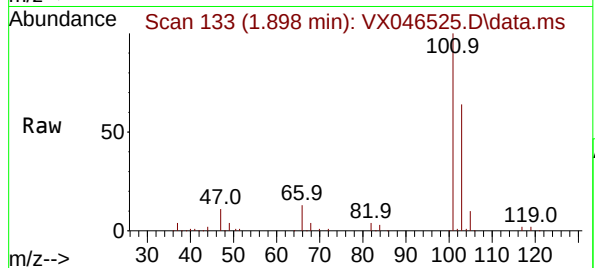
Tgt Ion: 64 Resp: 33633
Ion Ratio Lower Upper
64 100
66 34.4 24.3 36.5





#7
Trichlorofluoromethane
Concen: 49.788 ug/l
RT: 1.898 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

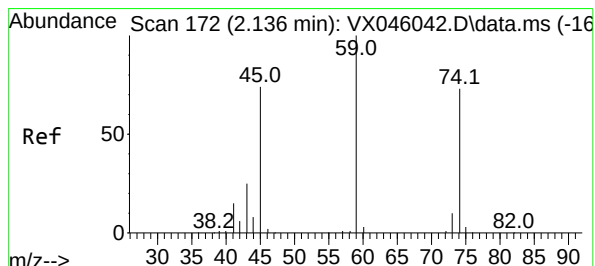
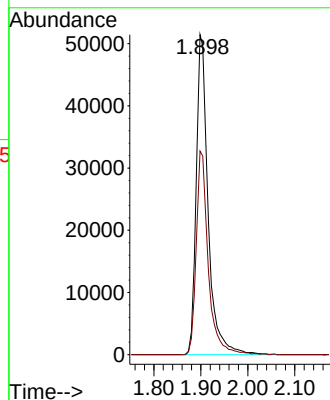
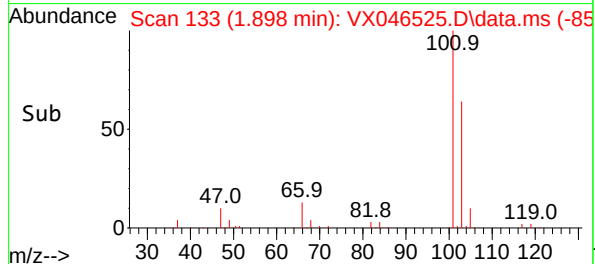
Instrument :
MSVOA_X
ClientSampleId :
ICVX060625



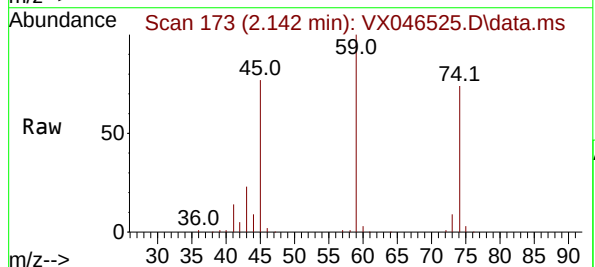
Tgt Ion:101 Resp: 90940
Ion Ratio Lower Upper
101 100
103 63.6 51.0 76.4

Manual Integrations
APPROVED

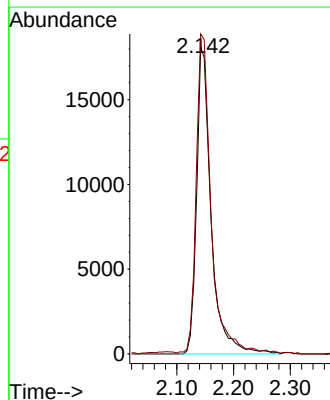
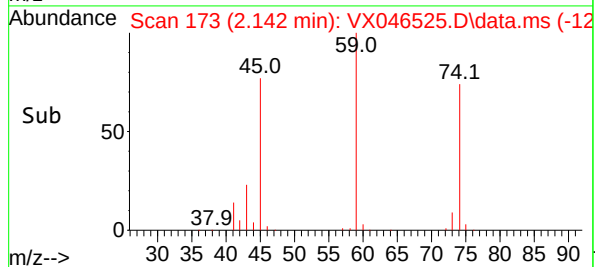
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

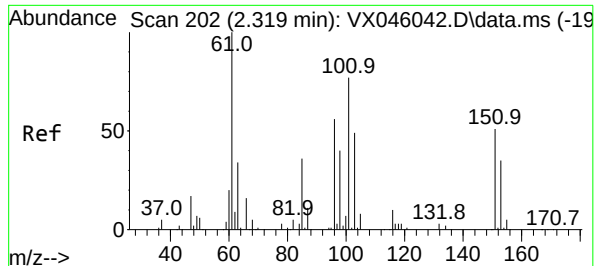


#8
Diethyl Ether
Concen: 49.819 ug/l
RT: 2.142 min Scan# 173
Delta R.T. -0.012 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11



Tgt Ion: 74 Resp: 32152
Ion Ratio Lower Upper
74 100
45 106.1 54.9 164.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 49.561 ug/l

RT: 2.343 min Scan# 206

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

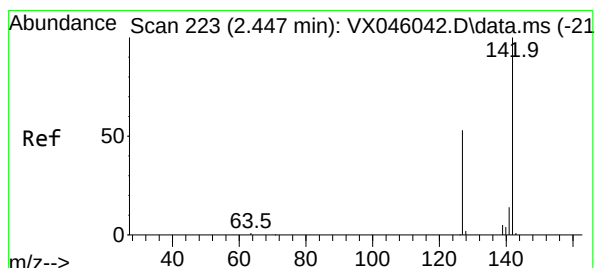
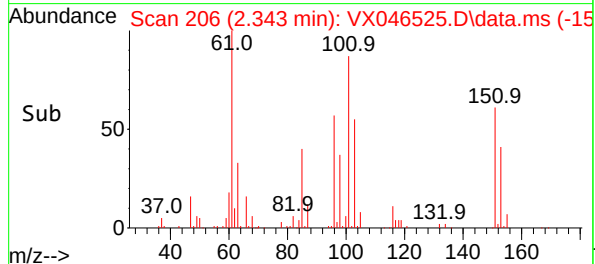
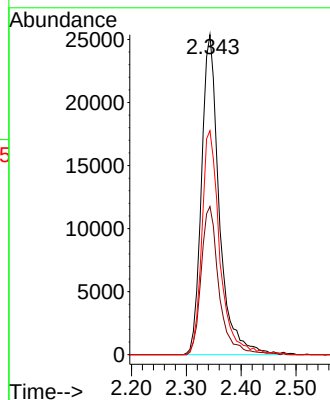
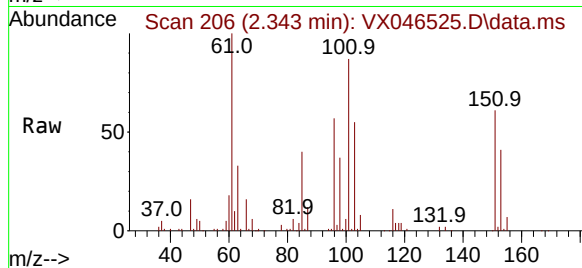
ICVX060625

Tgt Ion:	101	Resp:	57034
Ion	Ratio	Lower	Upper
101	100		
85	46.7	38.6	58.0
151	71.2	55.2	82.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#10

Methyl Iodide

Concen: 54.338 ug/l

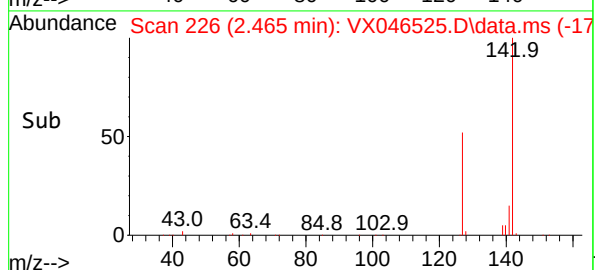
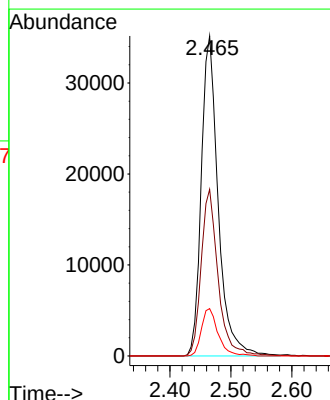
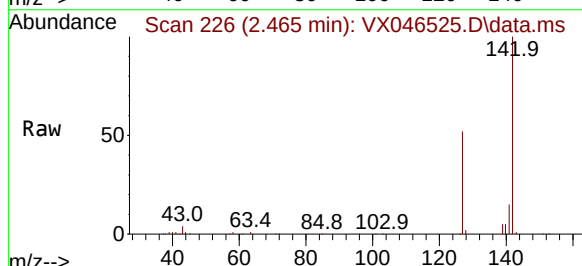
RT: 2.465 min Scan# 226

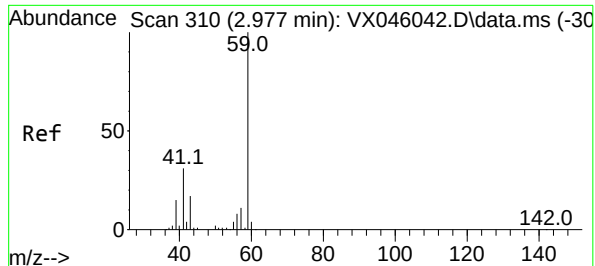
Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Tgt Ion:	142	Resp:	67786
Ion	Ratio	Lower	Upper
142	100		
127	52.1	41.7	62.5
141	14.6	11.5	17.3





#11

Tert butyl alcohol

Concen: 273.823 ug/l

RT: 2.965 min Scan# 30

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX060625

Tgt Ion: 59 Resp: 47374

Ion Ratio Lower Upper

59 100

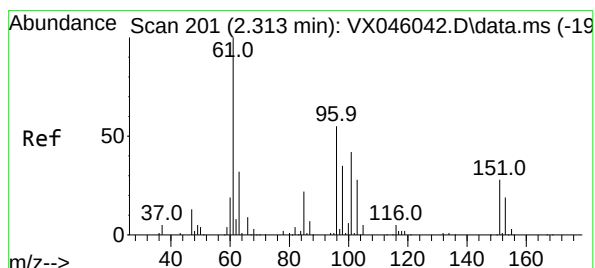
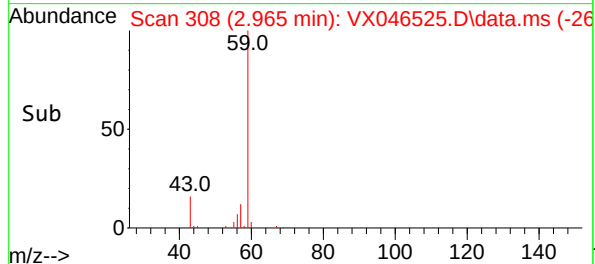
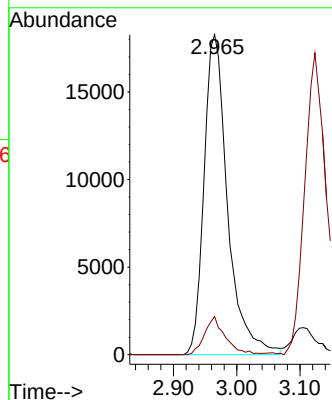
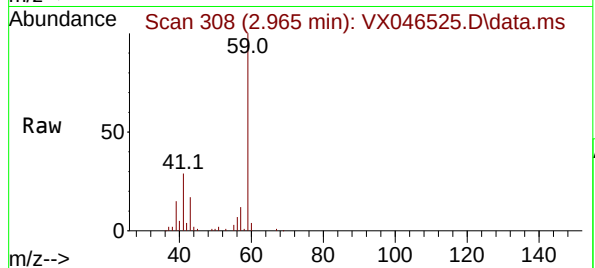
57 10.5 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#12

1,1-Dichloroethene

Concen: 49.119 ug/l

RT: 2.331 min Scan# 204

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

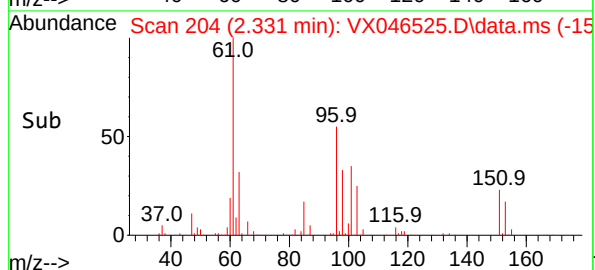
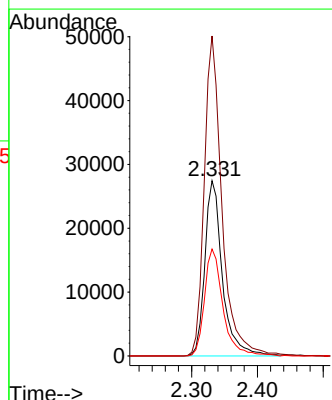
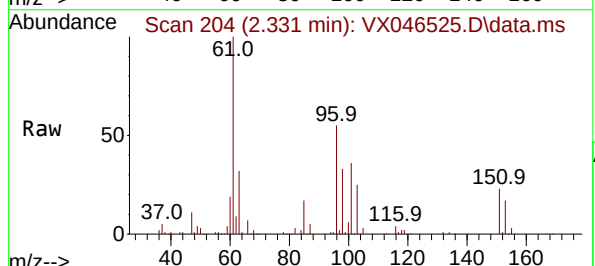
Tgt Ion: 96 Resp: 51107

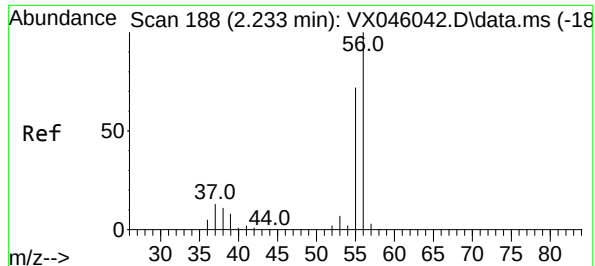
Ion Ratio Lower Upper

96 100

61 182.7 146.2 219.2

98 61.0 51.0 76.6





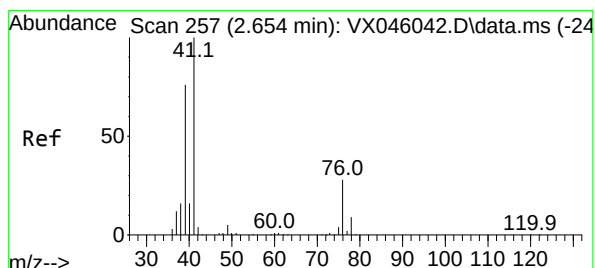
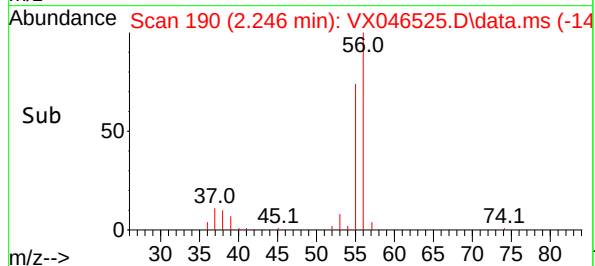
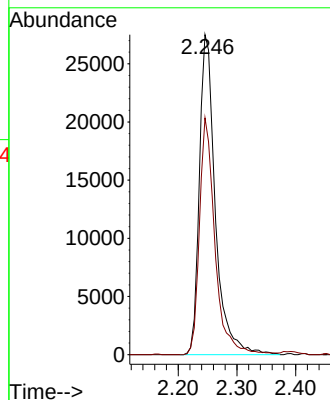
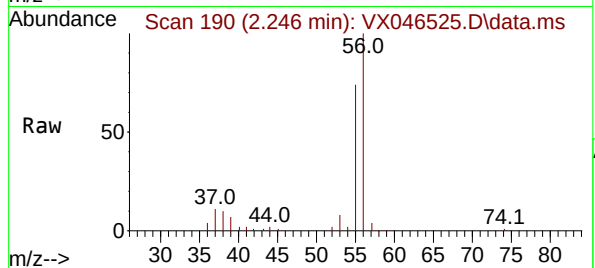
#13
Acrolein
Concen: 247.857 ug/l
RT: 2.246 min Scan# 188
Delta R.T. -0.005 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Tgt Ion: 56 Resp: 51802
Ion Ratio Lower Upper
56 100
55 72.1 56.2 84.4

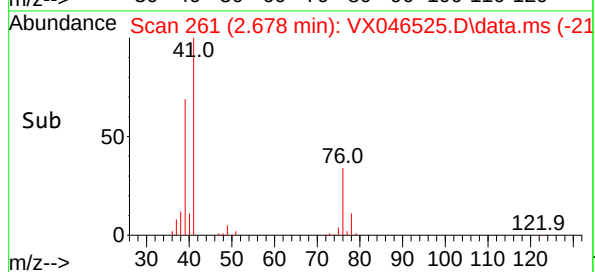
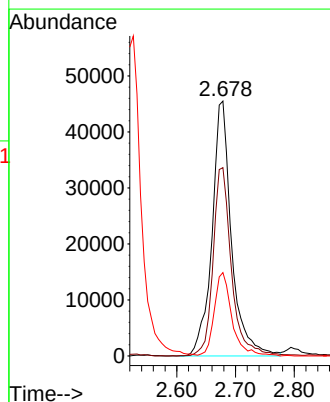
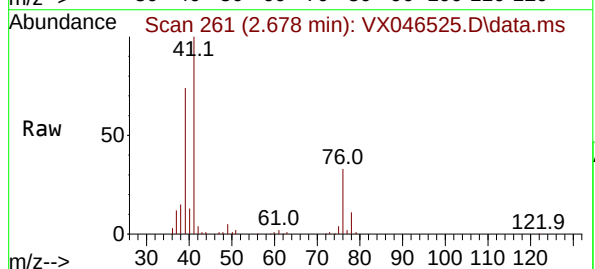
Manual Integrations
APPROVED

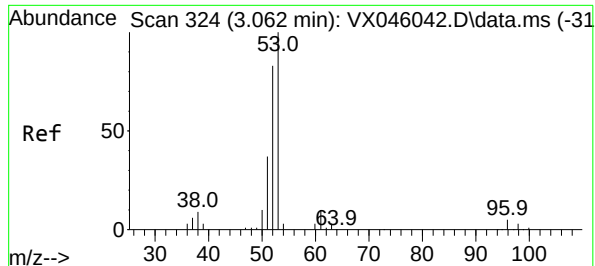
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#14
Allyl chloride
Concen: 51.566 ug/l
RT: 2.678 min Scan# 261
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Tgt Ion: 41 Resp: 105373
Ion Ratio Lower Upper
41 100
39 69.8 60.6 90.8
76 29.2 24.9 37.3





#15

Acrylonitrile

Concen: 266.347 ug/l

RT: 3.069 min Scan# 31

Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 53 Resp: 174229

Ion Ratio Lower Upper

53 100

52 84.5 65.3 97.9

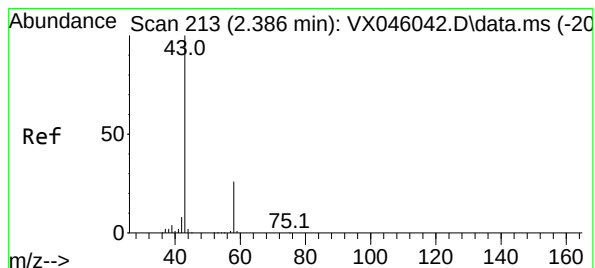
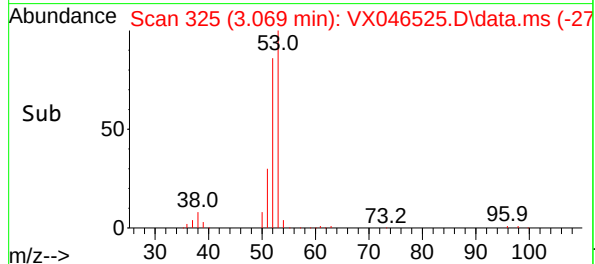
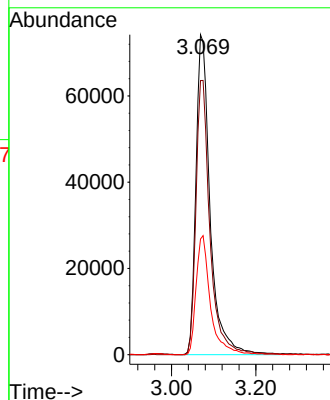
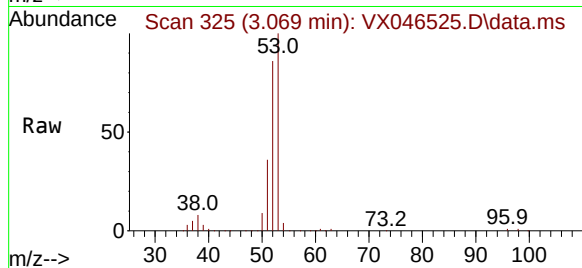
51 37.7 29.8 44.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#16

Acetone

Concen: 257.624 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX046525.D

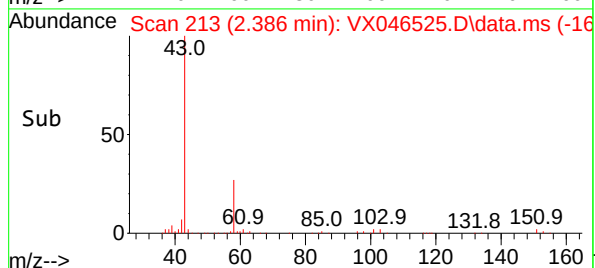
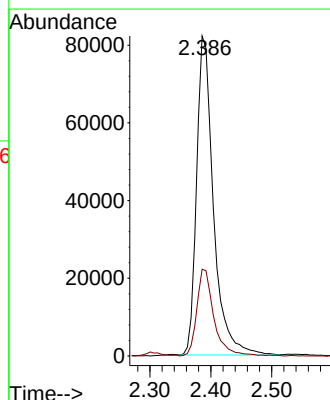
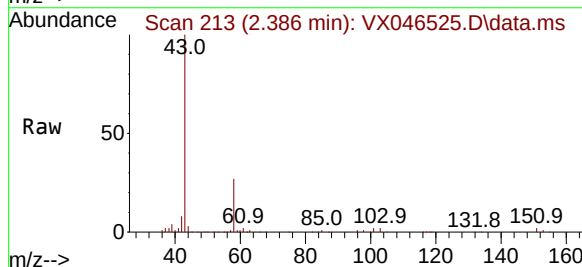
Acq: 06 Jun 2025 14:11

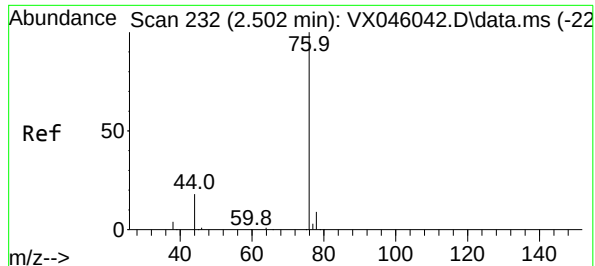
Tgt Ion: 43 Resp: 157823

Ion Ratio Lower Upper

43 100

58 27.2 21.2 31.8





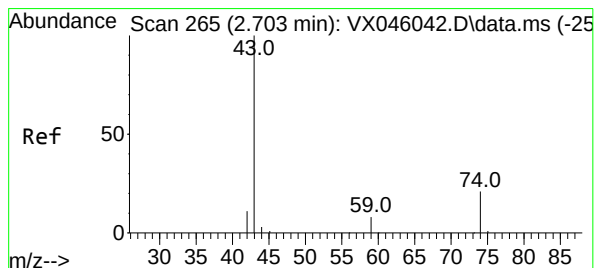
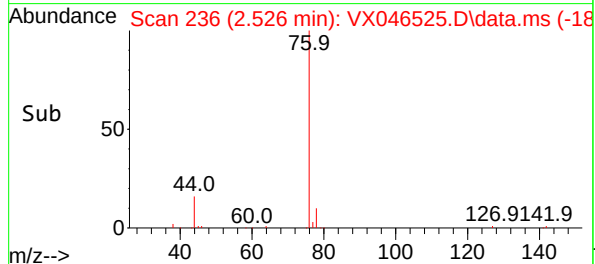
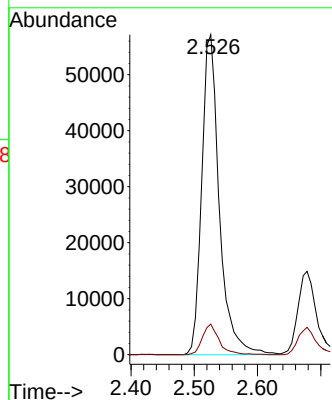
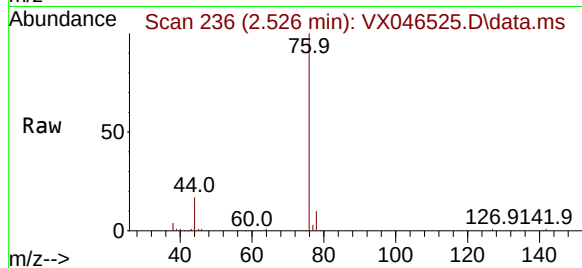
#17
Carbon Disulfide
Concen: 50.069 ug/l
RT: 2.526 min Scan# 211
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Tgt Ion: 76 Resp: 110610
Ion Ratio Lower Upper
76 100
78 9.6 7.0 10.4

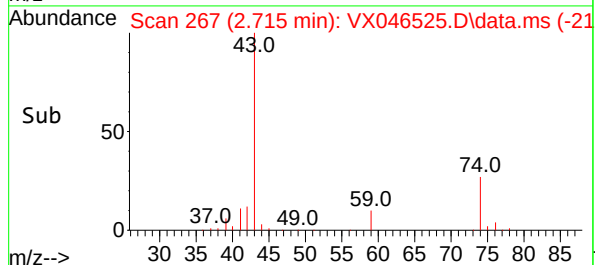
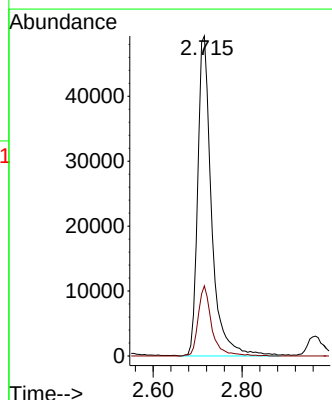
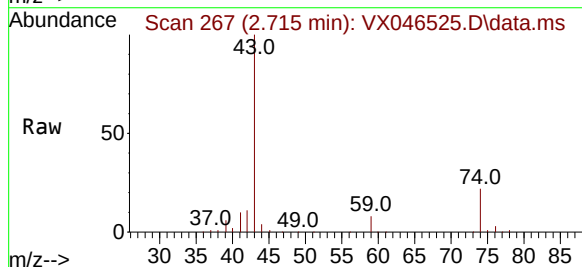
Manual Integrations
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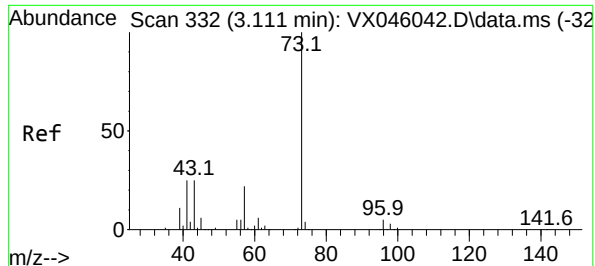
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#18
Methyl Acetate
Concen: 57.396 ug/l
RT: 2.715 min Scan# 267
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Tgt Ion: 43 Resp: 106595
Ion Ratio Lower Upper
43 100
74 21.4 16.7 25.1





#19

Methyl tert-butyl Ether

Concen: 53.754 ug/l

RT: 3.123 min Scan# 31

Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 73 Resp: 195700

Ion Ratio Lower Upper

73 100

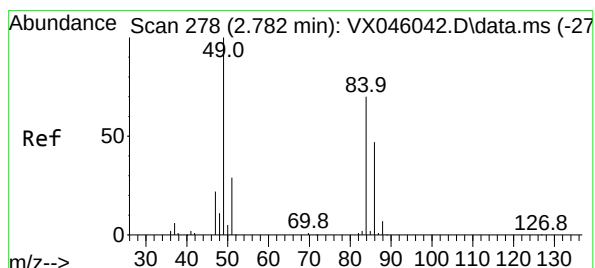
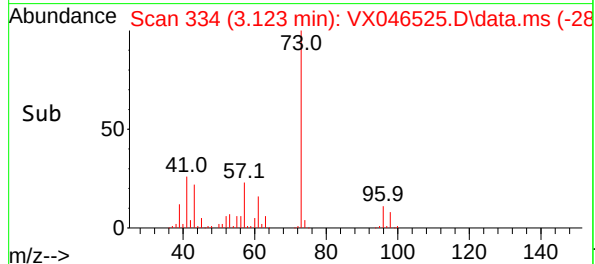
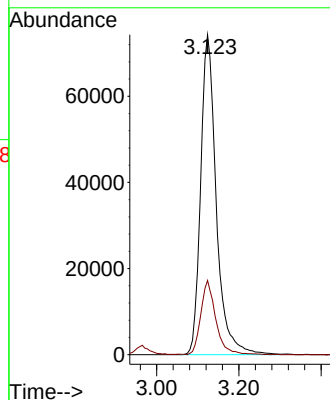
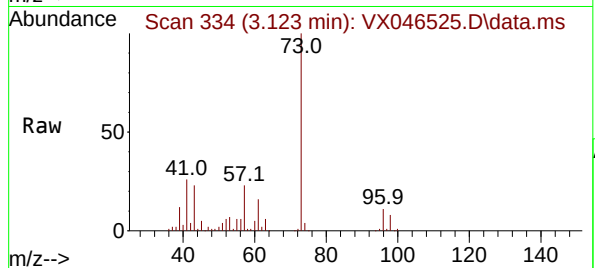
57 23.2 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#20

Methylene Chloride

Concen: 48.013 ug/l

RT: 2.800 min Scan# 281

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Tgt Ion: 84 Resp: 60058

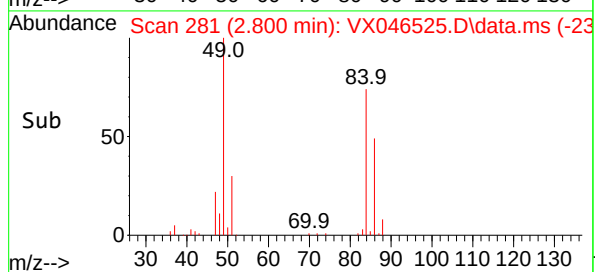
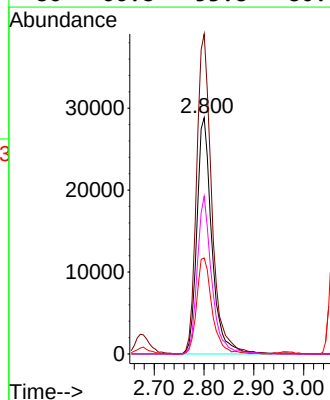
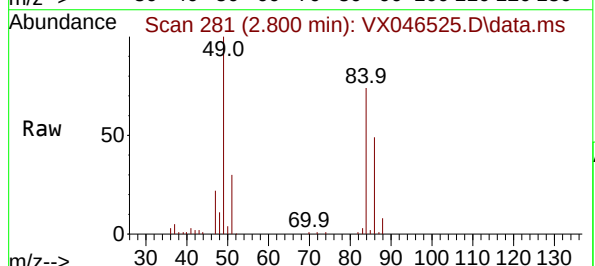
Ion Ratio Lower Upper

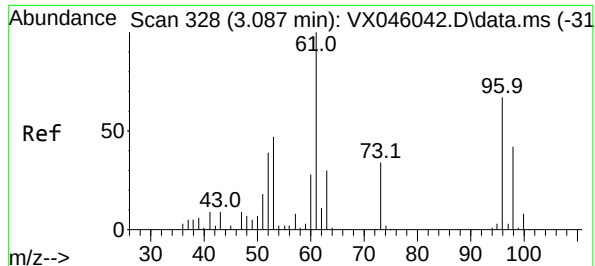
84 100

49 135.2 113.9 170.9

51 40.6 33.5 50.3

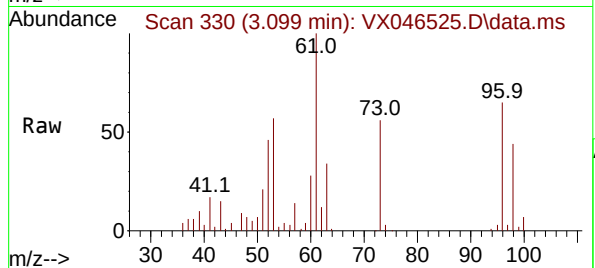
86 66.8 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 47.832 ug/l
RT: 3.099 min Scan# 31
Delta R.T. -0.012 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

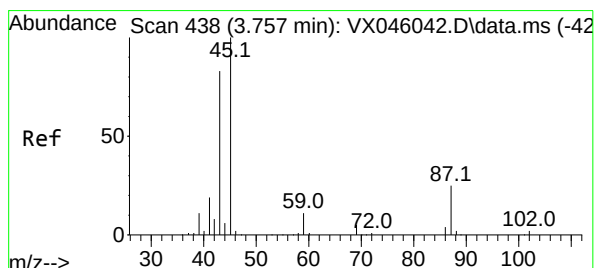
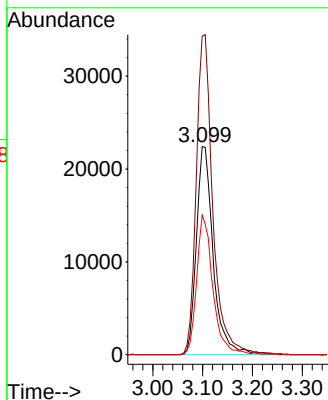
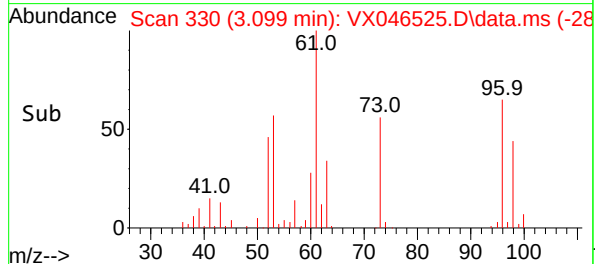
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



Tgt Ion: 96 Resp: 5266
Ion Ratio Lower Upper
96 100
61 153.1 119.5 179.3
98 67.1 50.0 75.0

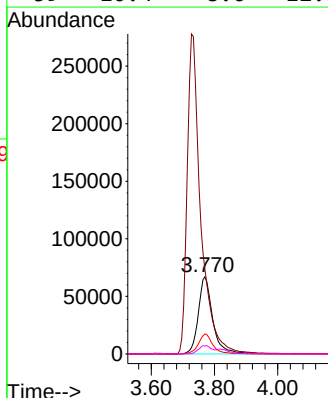
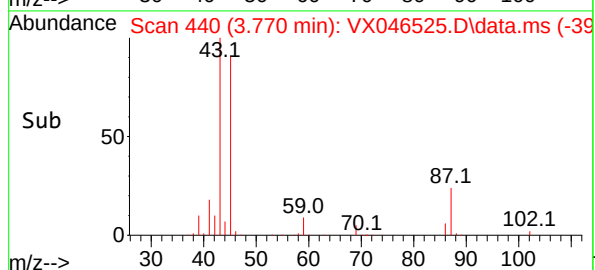
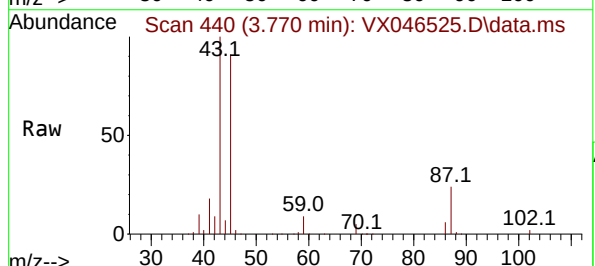
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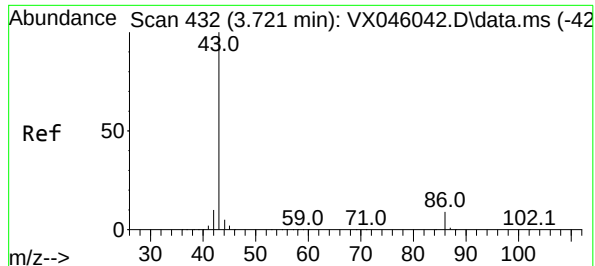
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#22
Diisopropyl ether
Concen: 52.834 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.012 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

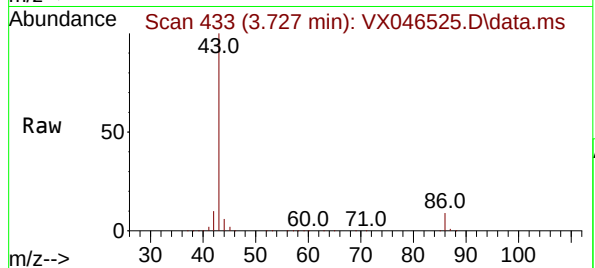
Tgt Ion: 45 Resp: 212853
Ion Ratio Lower Upper
45 100
43 108.8 66.6 100.0#
87 26.0 19.8 29.6
59 10.4 8.6 12.8





#23
Vinyl Acetate
Concen: 266.053 ug/l
RT: 3.727 min Scan# 415
Delta R.T. -0.012 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

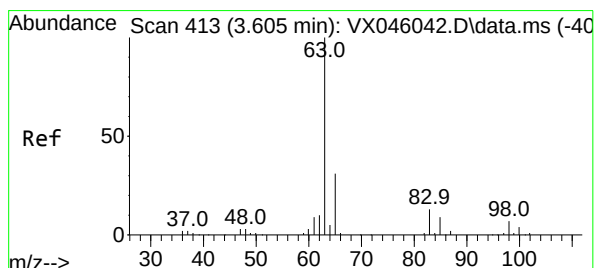
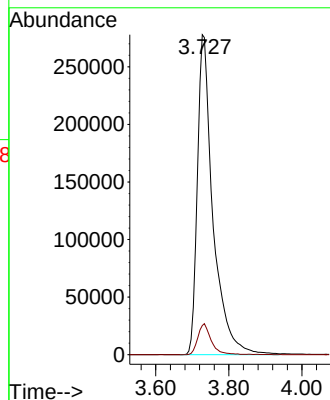
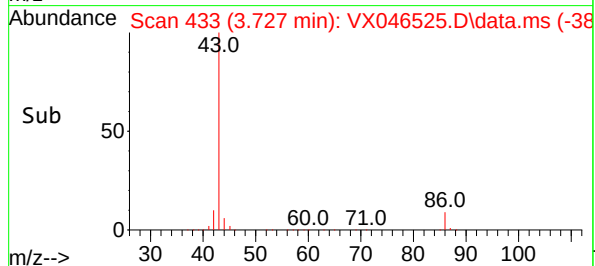
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



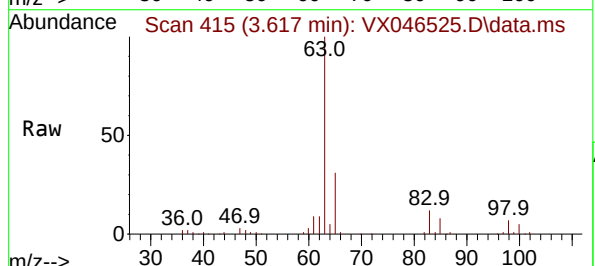
Tgt Ion: 43 Resp: 82753
Ion Ratio Lower Upper
43 100
86 9.1 7.5 11.3

Manual Integrations
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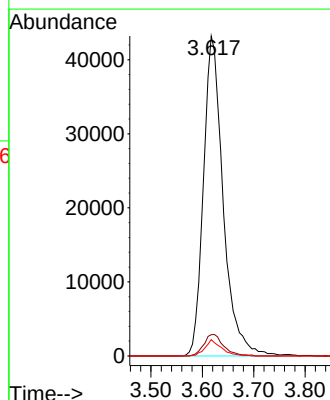
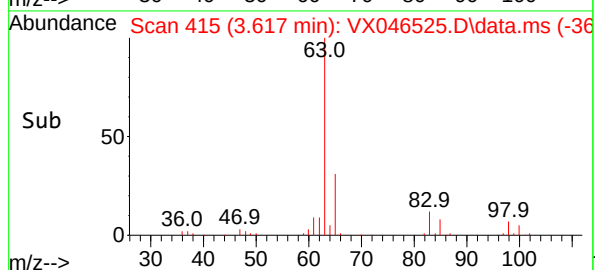
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

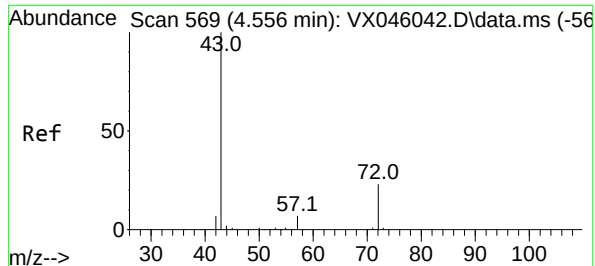


#24
1,1-Dichloroethane
Concen: 51.227 ug/l
RT: 3.617 min Scan# 415
Delta R.T. -0.012 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11



Tgt Ion: 63 Resp: 115021
Ion Ratio Lower Upper
63 100
98 6.7 3.6 10.8
100 5.1 2.1 6.3





#25

2-Butanone

Concen: 267.525 ug/l

RT: 4.562 min Scan# 51

Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 43 Resp: 23220

Ion Ratio Lower Upper

43 100

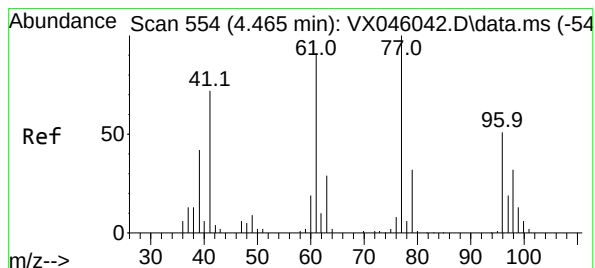
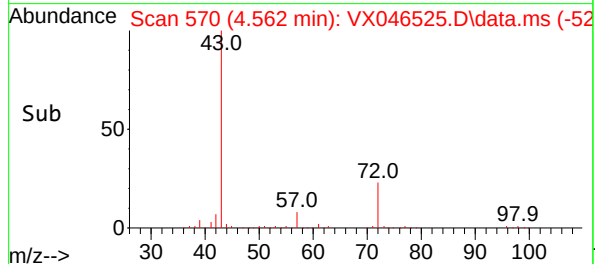
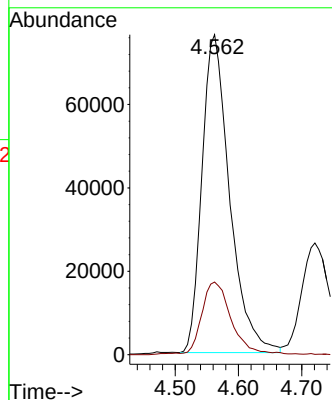
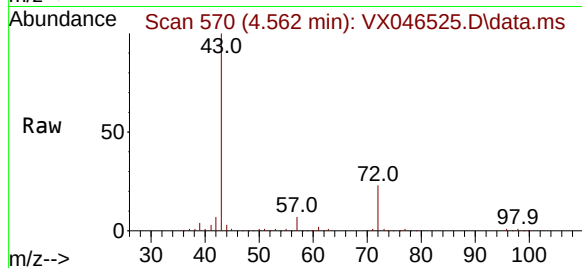
72 22.4 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 53.502 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.012 min

Lab File: VX046525.D

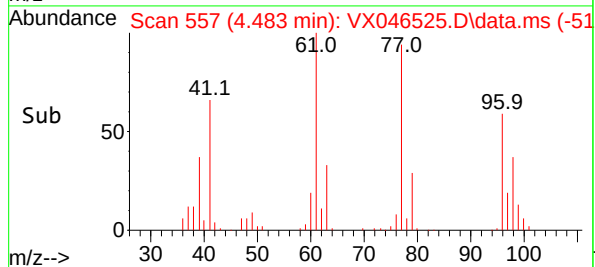
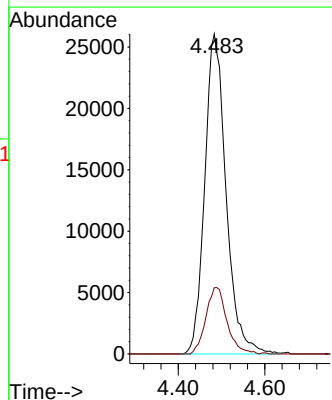
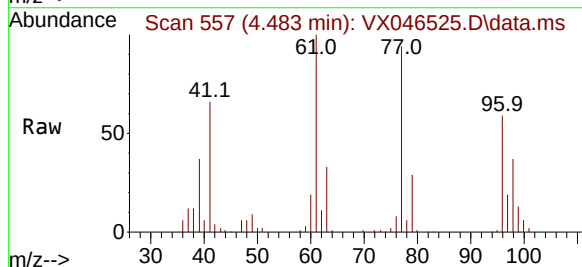
Acq: 06 Jun 2025 14:11

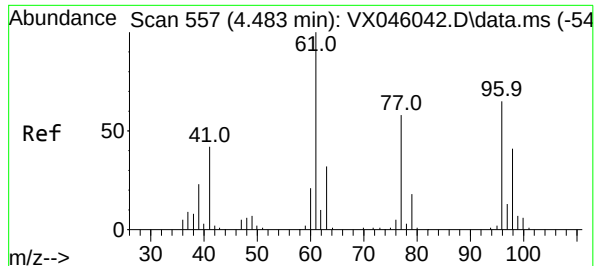
Tgt Ion: 77 Resp: 89180

Ion Ratio Lower Upper

77 100

97 20.5 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 49.265 ug/l

RT: 4.501 min Scan# 50

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX060625

Tgt Ion: 96 Resp: 66779

Ion Ratio Lower Upper

96 100

61 159.6 0.0 322.8

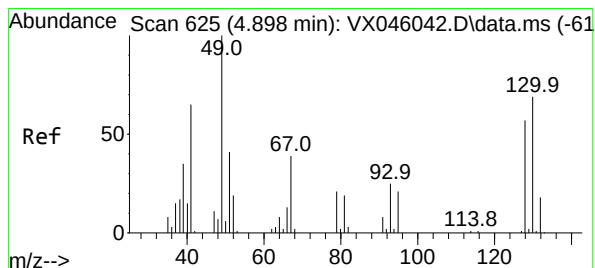
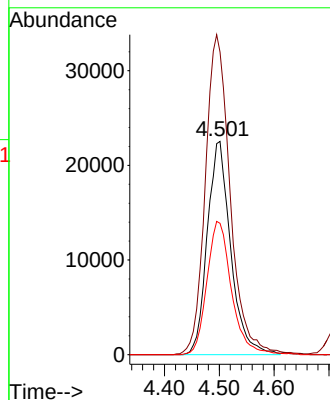
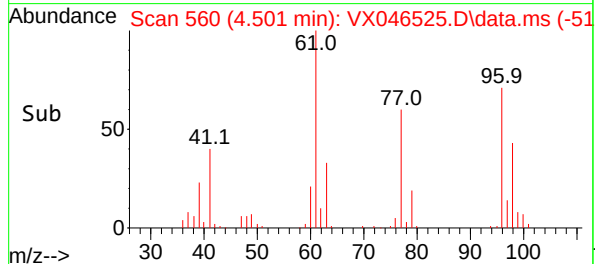
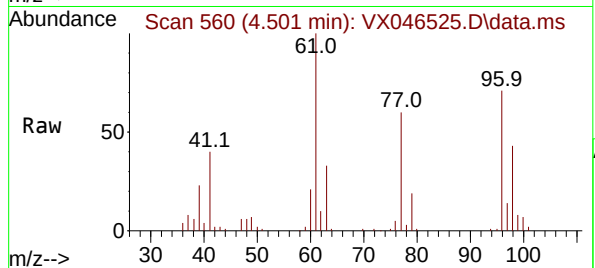
98 65.7 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 49.390 ug/l

RT: 4.904 min Scan# 626

Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

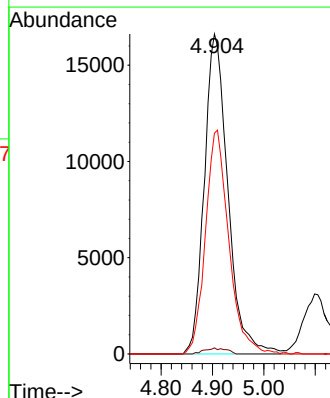
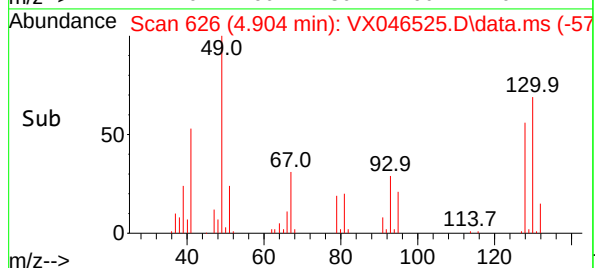
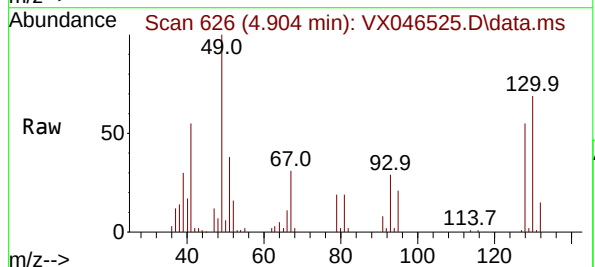
Tgt Ion: 49 Resp: 52893

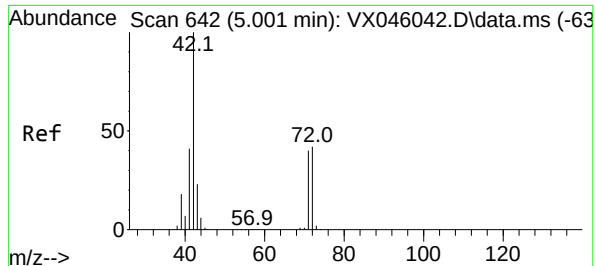
Ion Ratio Lower Upper

49 100

129 1.7 0.0 4.0

130 69.4 56.2 84.2





#29

Tetrahydrofuran

Concen: 266.904 ug/l

RT: 5.013 min Scan# 642

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 42 Resp: 146302

Ion Ratio Lower Upper

42 100

72 41.0 33.7 50.5

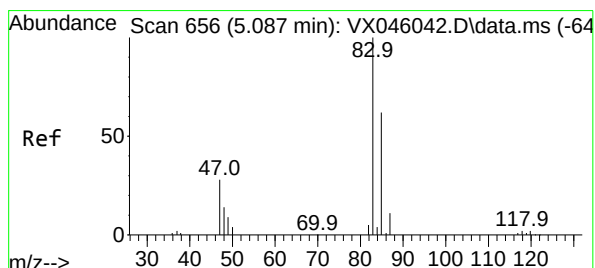
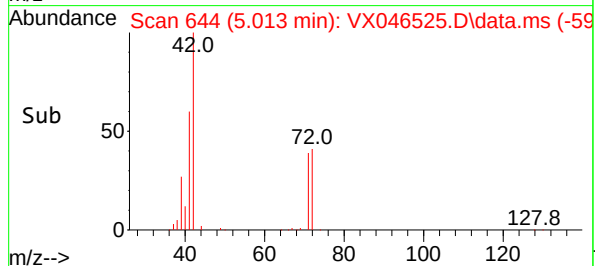
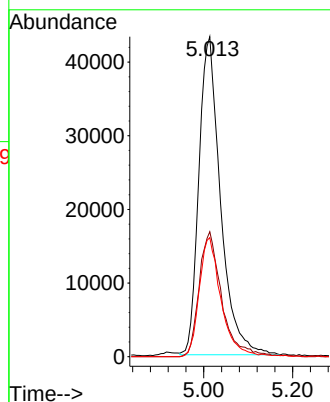
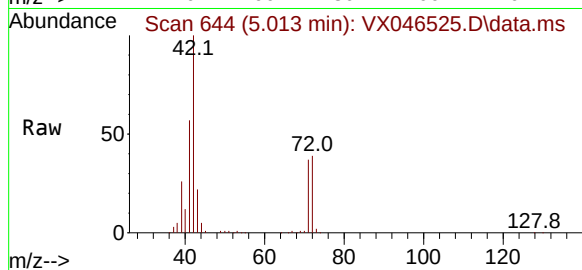
71 37.4 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 51.004 ug/l

RT: 5.099 min Scan# 658

Delta R.T. -0.012 min

Lab File: VX046525.D

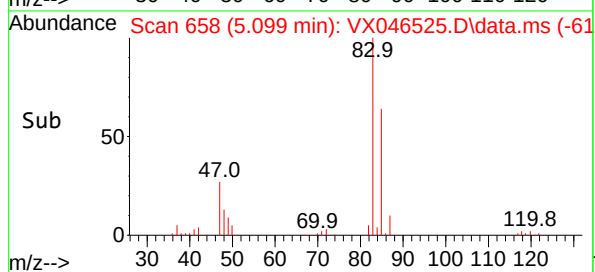
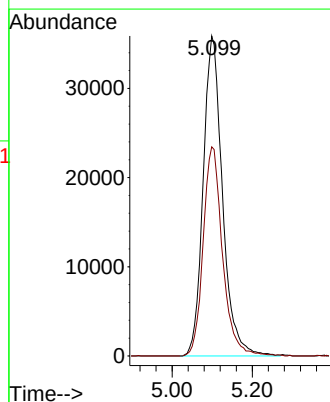
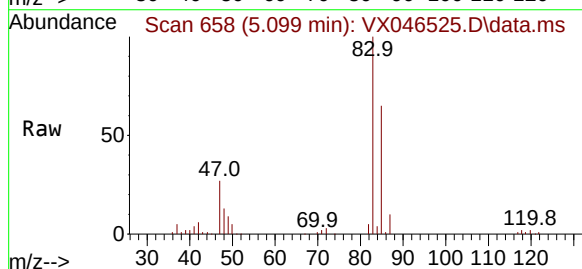
Acq: 06 Jun 2025 14:11

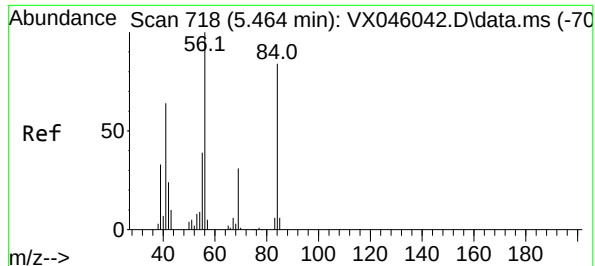
Tgt Ion: 83 Resp: 119994

Ion Ratio Lower Upper

83 100

85 65.3 49.3 73.9





#31

Cyclohexane

Concen: 49.093 ug/l

RT: 5.477 min Scan# 718

Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 56 Resp: 8898

Ion Ratio Lower Upper

56 100

69 30.5 24.4 36.6

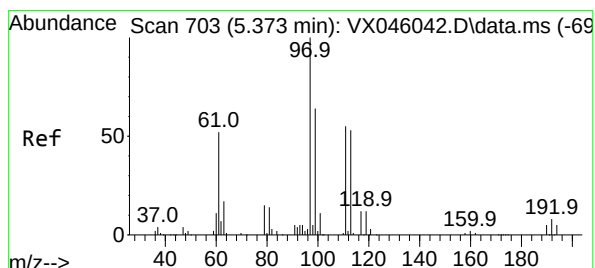
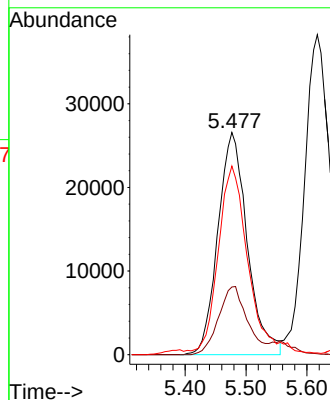
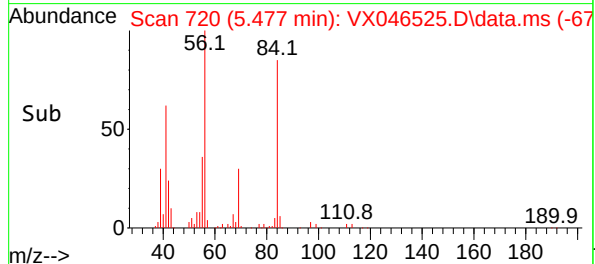
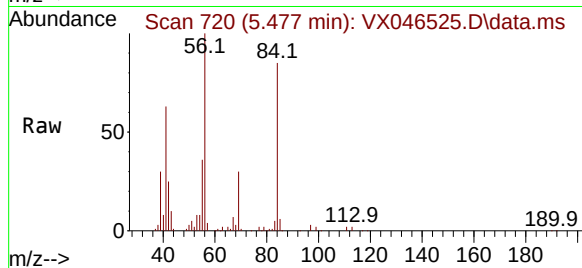
84 82.6 66.9 100.3

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#32

1,1,1-Trichloroethane

Concen: 51.651 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

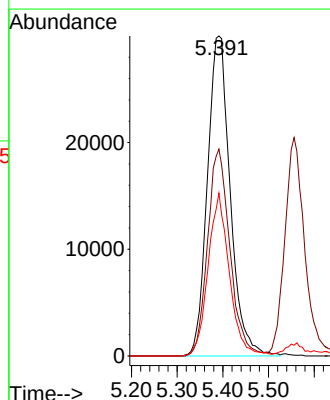
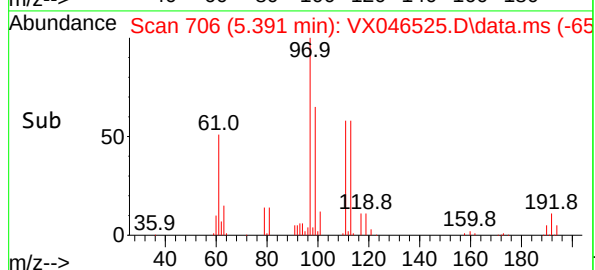
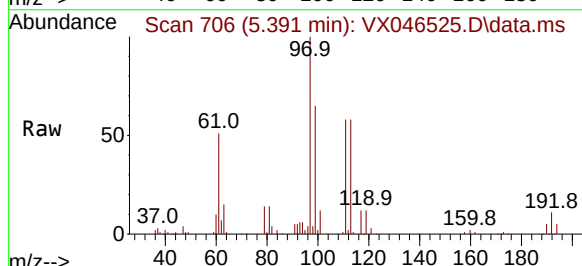
Tgt Ion: 97 Resp: 103945

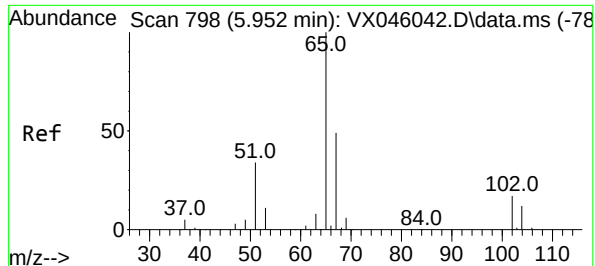
Ion Ratio Lower Upper

97 100

99 63.1 51.8 77.6

61 47.5 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 50.250 ug/l

RT: 5.958 min Scan# 798

Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 65 Resp: 78349

Ion Ratio Lower Upper

65 100

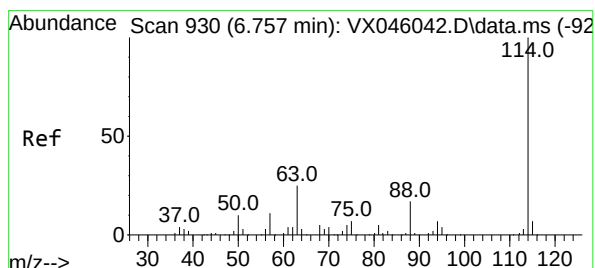
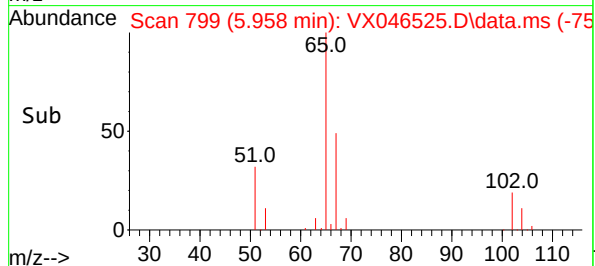
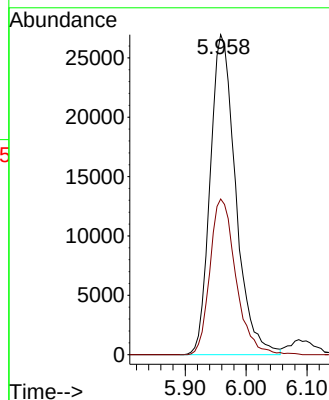
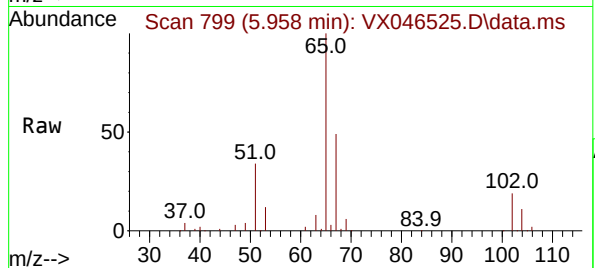
67 49.5 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

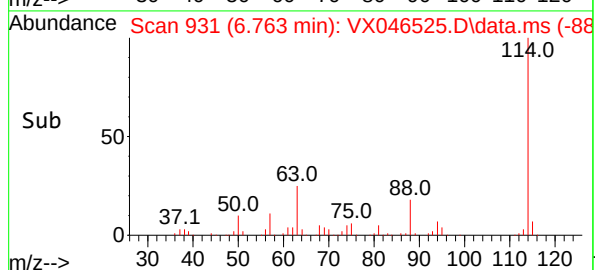
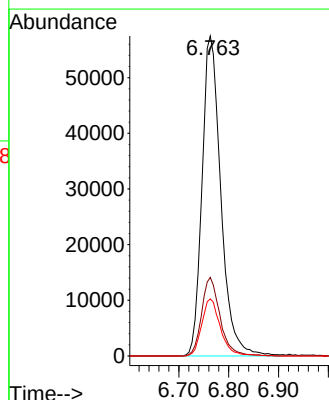
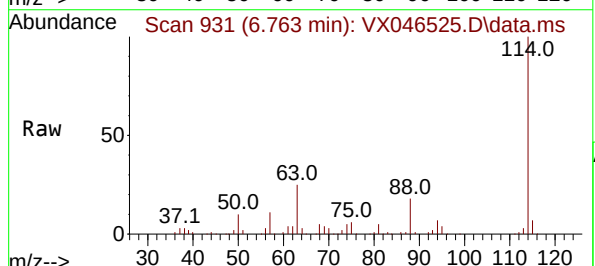
Tgt Ion:114 Resp: 151058

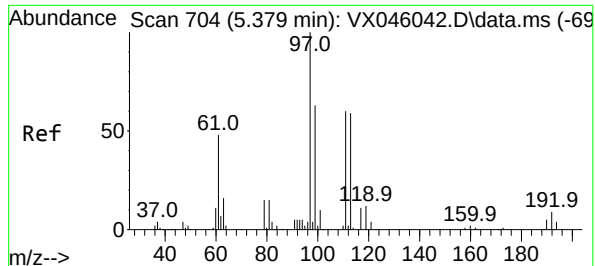
Ion Ratio Lower Upper

114 100

63 24.6 0.0 49.2

88 17.8 0.0 33.6





#35

Dibromofluoromethane

Concen: 51.039 ug/l

RT: 5.391 min Scan# 704

Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion:113 Resp: 56698

Ion Ratio Lower Upper

113 100

111 103.5 83.1 124.7

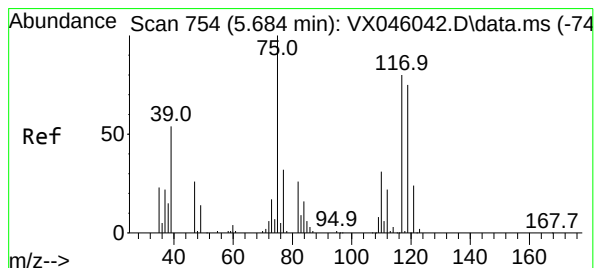
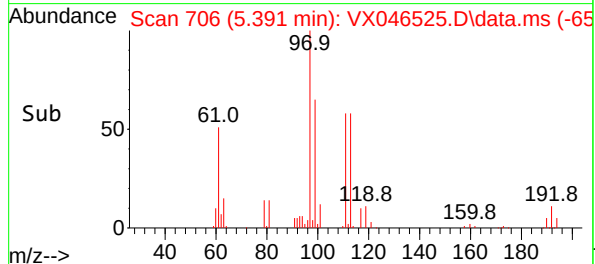
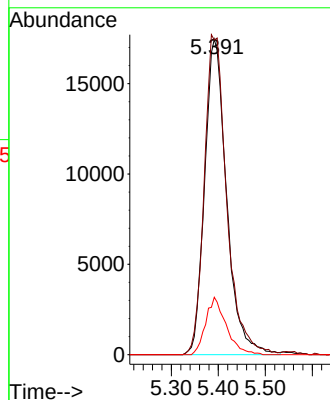
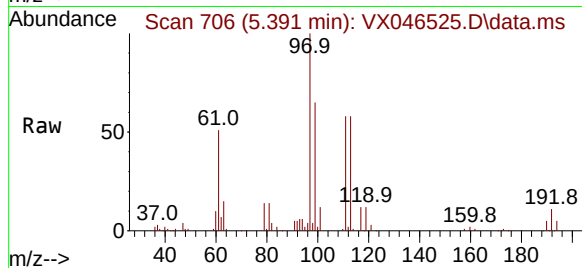
192 17.1 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#36

1,1-Dichloropropene

Concen: 47.703 ug/l

RT: 5.696 min Scan# 756

Delta R.T. -0.018 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

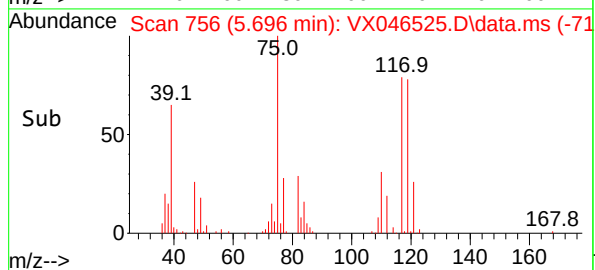
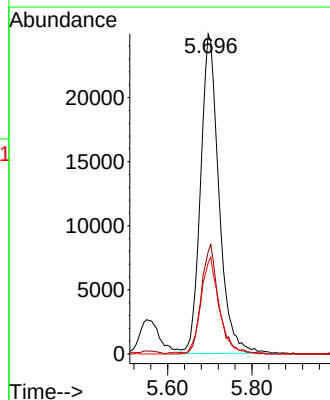
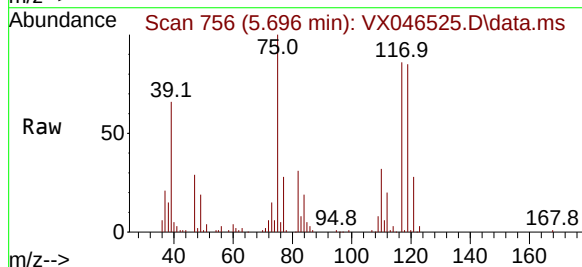
Tgt Ion: 75 Resp: 75696

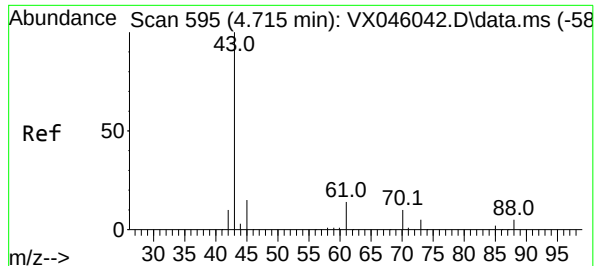
Ion Ratio Lower Upper

75 100

110 32.3 16.3 48.9

77 29.6 24.3 36.5





#37

Ethyl Acetate

Concen: 58.203 ug/l

RT: 4.721 min Scan# 595

Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

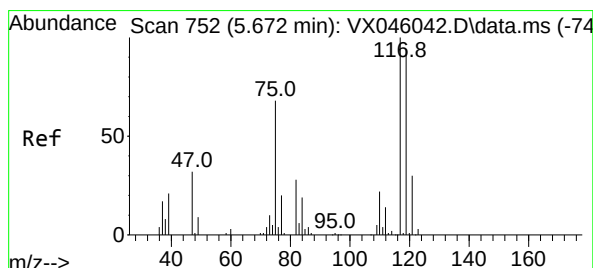
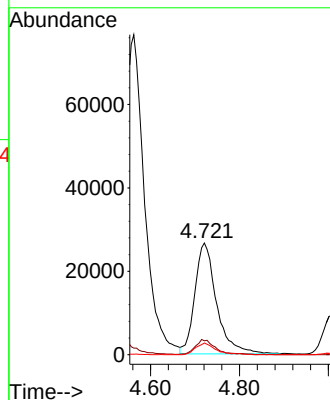
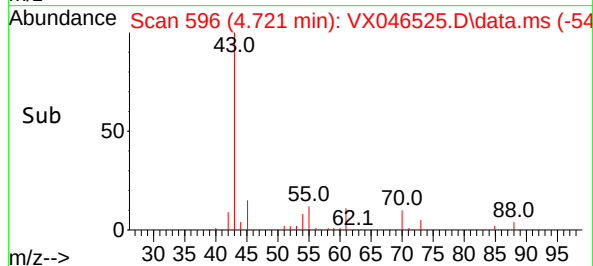
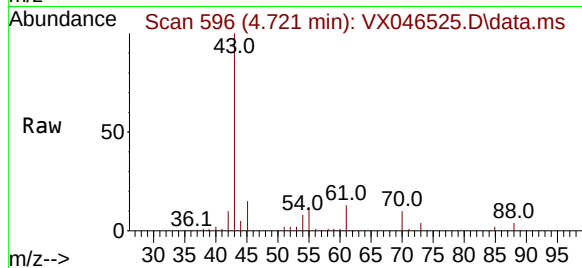
ClientSampleId :

ICVX060625

Tgt Ion:	43	Resp:	90139
Ion	Ratio	Lower	Upper
43	100		
61	12.7	10.3	15.5
70	9.6	7.9	11.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#38

Carbon Tetrachloride

Concen: 49.372 ug/l

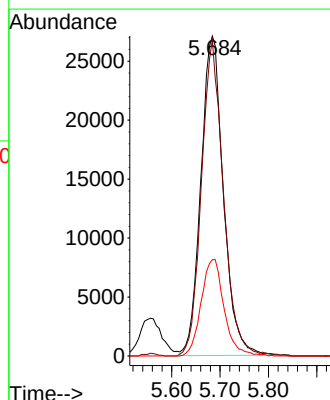
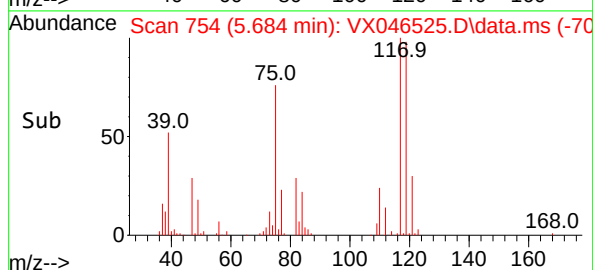
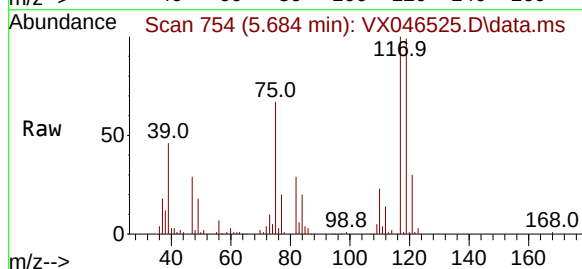
RT: 5.684 min Scan# 754

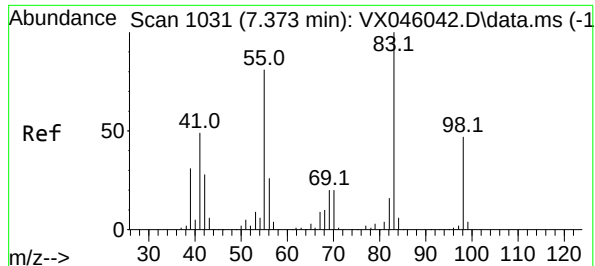
Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Tgt Ion:	117	Resp:	87750
Ion	Ratio	Lower	Upper
117	100		
119	98.9	75.2	112.8
121	30.2	24.2	36.4





#39

Methylcyclohexane

Concen: 47.608 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 83 Resp: 8916

Ion Ratio Lower Upper

83 100

55 81.6 64.7 97.1

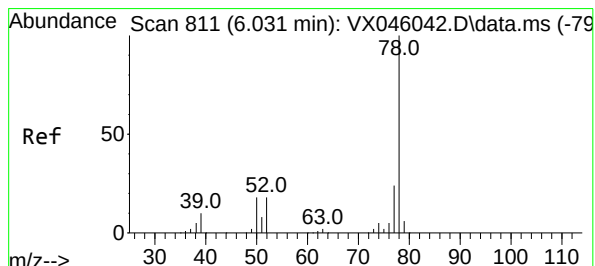
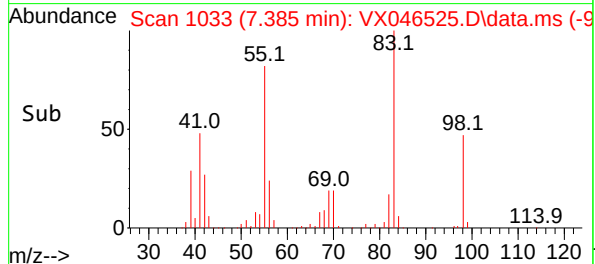
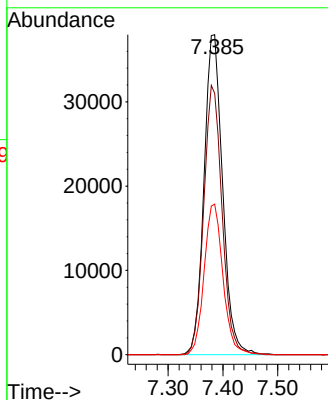
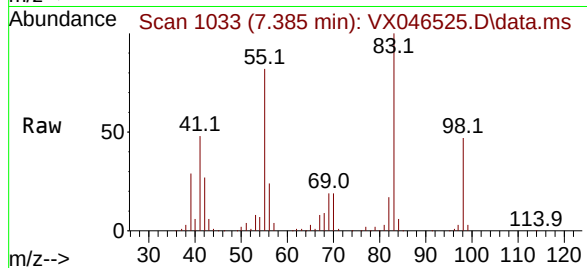
98 47.1 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#40

Benzene

Concen: 49.672 ug/l

RT: 6.044 min Scan# 813

Delta R.T. -0.012 min

Lab File: VX046525.D

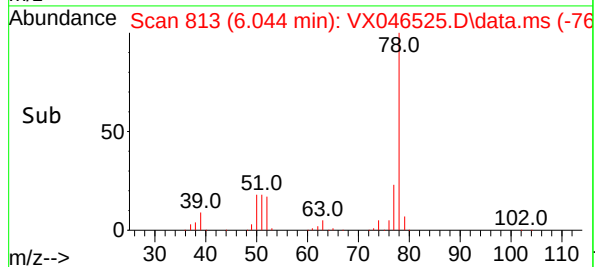
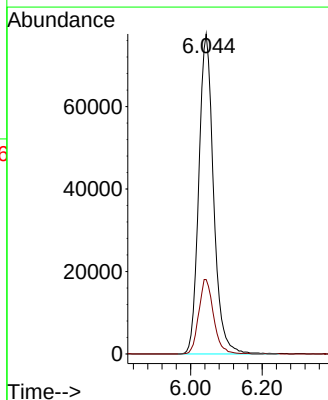
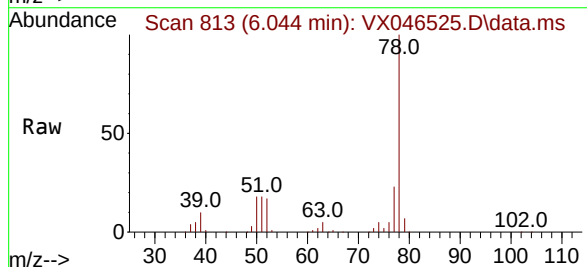
Acq: 06 Jun 2025 14:11

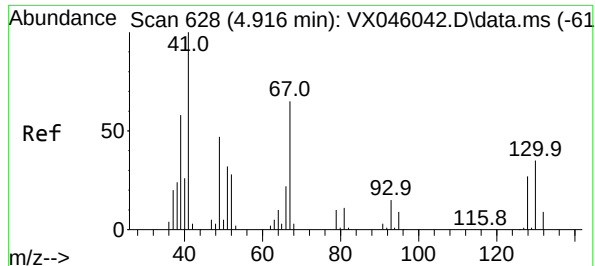
Tgt Ion: 78 Resp: 221890

Ion Ratio Lower Upper

78 100

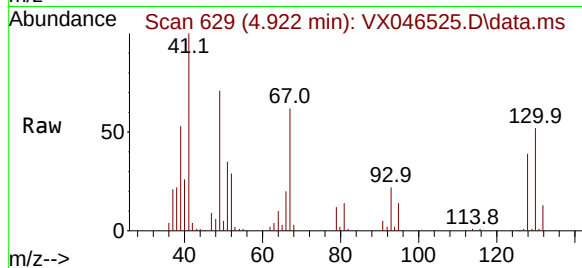
77 23.3 19.0 28.4





#41
Methacrylonitrile
Concen: 56.282 ug/l
RT: 4.922 min Scan# 61
Delta R.T. -0.012 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

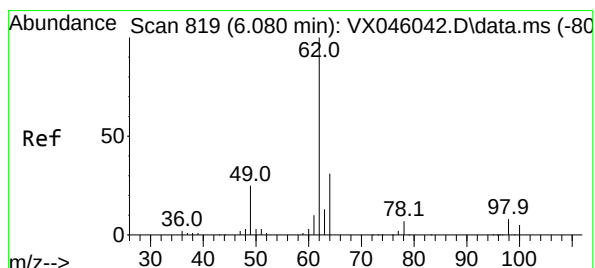
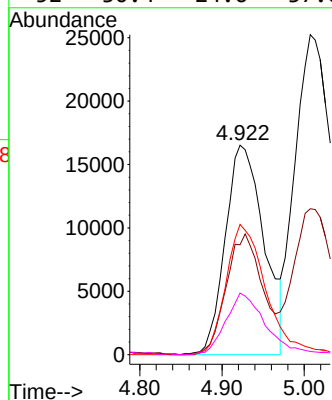
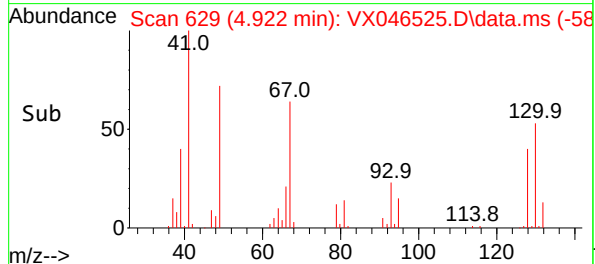
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



Tgt Ion: 41 Resp: 54128
Ion Ratio Lower Upper
41 100
39 53.5 47.2 70.8
67 64.3 50.7 76.1
52 30.4 24.6 37.0

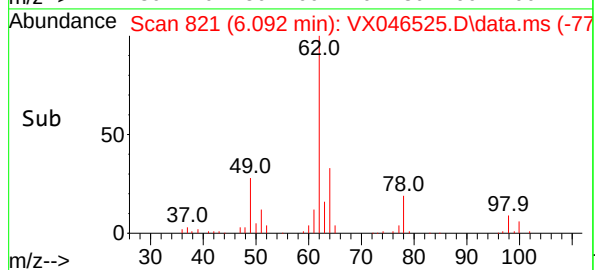
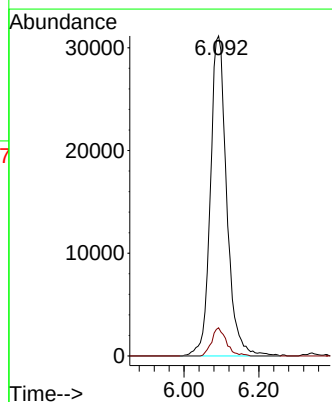
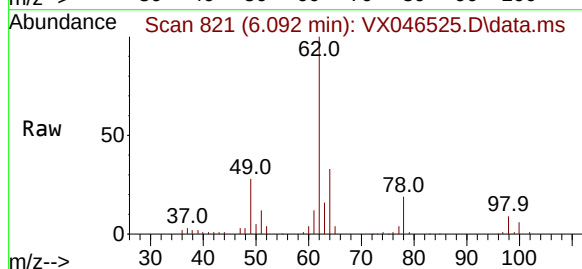
Manual Integrations
APPROVED

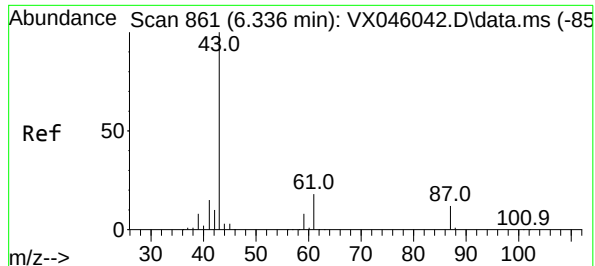
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#42
1,2-Dichloroethane
Concen: 50.897 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Tgt Ion: 62 Resp: 94588
Ion Ratio Lower Upper
62 100
98 7.9 0.0 15.2





#43

Isopropyl Acetate

Concen: 54.290 ug/l

RT: 6.342 min Scan# 862

Delta R.T. -0.012 min

Lab File: VX046525.D

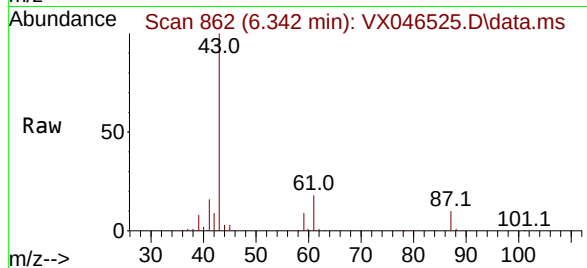
Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

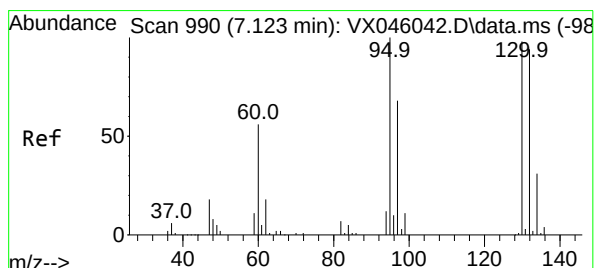
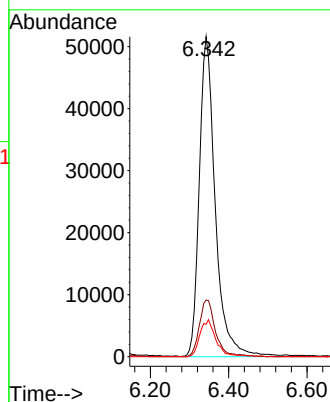
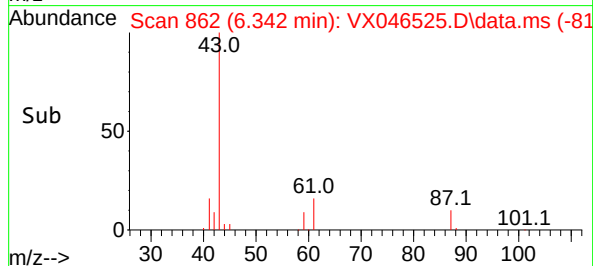


Tgt Ion: 43	Resp: 146579
Ion Ratio	Lower Upper
43	100
61	17.9 14.3 21.5
87	11.6 9.5 14.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#44

Trichloroethene

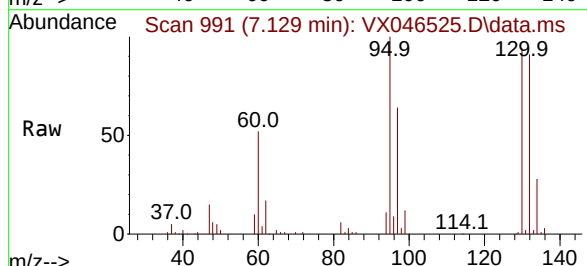
Concen: 47.764 ug/l

RT: 7.129 min Scan# 991

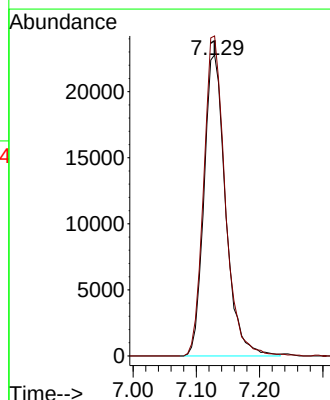
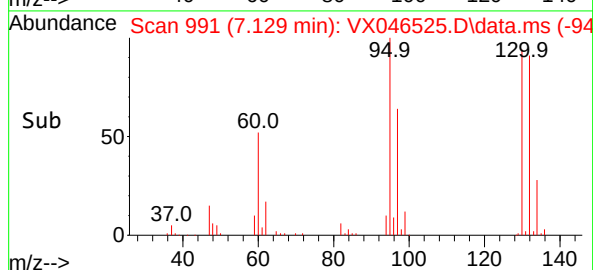
Delta R.T. -0.006 min

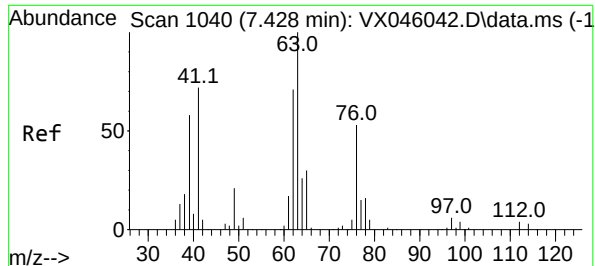
Lab File: VX046525.D

Acq: 06 Jun 2025 14:11



Tgt Ion:130	Resp: 54213
Ion Ratio	Lower Upper
130	100
95	106.3 0.0 204.2





#45

1,2-Dichloropropane

Concen: 51.417 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX060625

Tgt Ion: 63 Resp: 5928

Ion Ratio Lower Upper

63 100

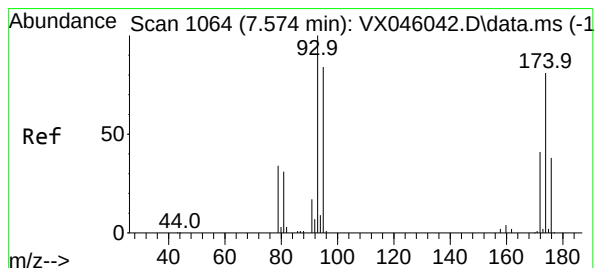
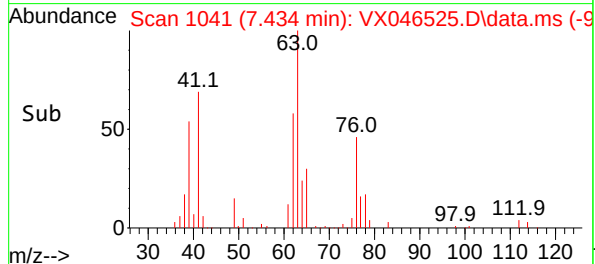
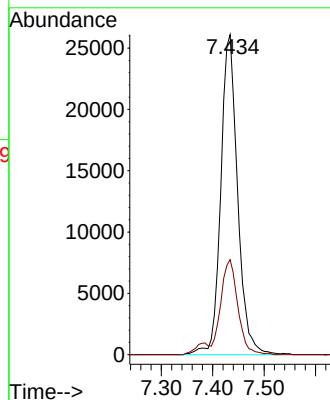
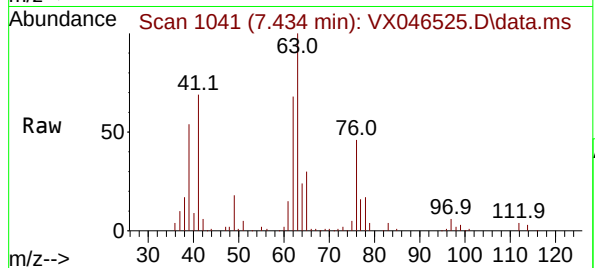
65 29.7 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#46

Dibromomethane

Concen: 50.807 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

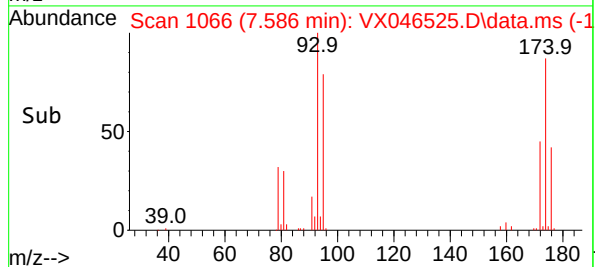
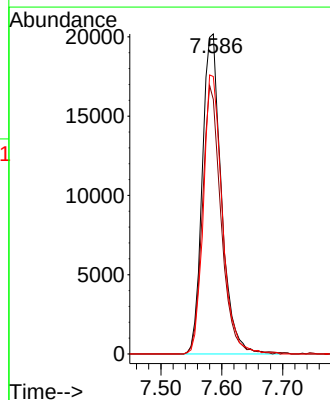
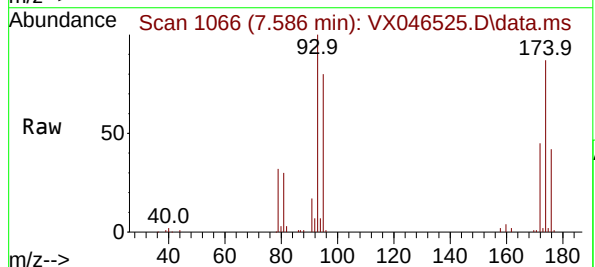
Tgt Ion: 93 Resp: 44071

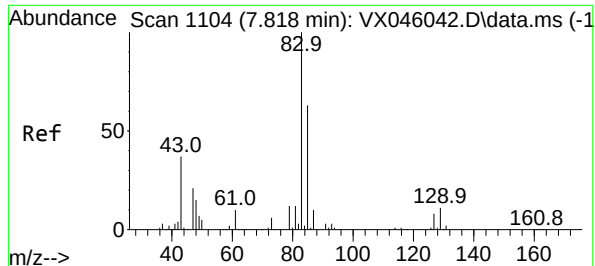
Ion Ratio Lower Upper

93 100

95 81.4 65.6 98.4

174 85.8 68.2 102.2





#47

Bromodichloromethane

Concen: 52.906 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

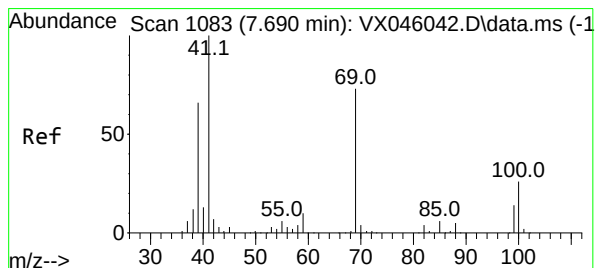
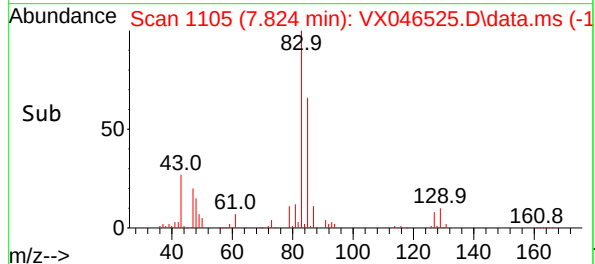
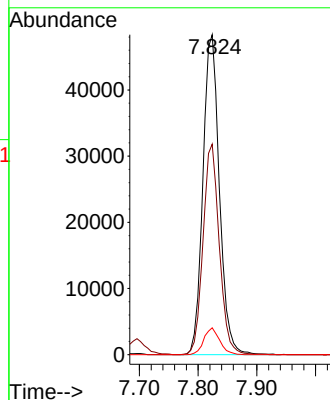
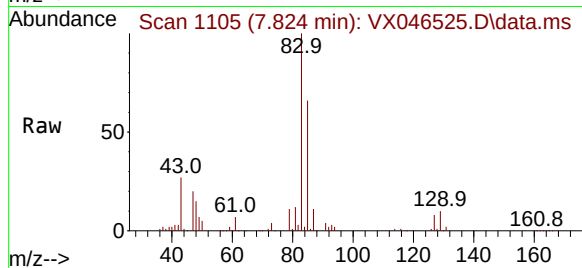
ICVVX060625

Tgt Ion:	83	Resp:	9436
Ion	Ratio	Lower	Upper
83	100		
85	65.8	50.5	75.7
127	8.4	6.5	9.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#48

Methyl methacrylate

Concen: 54.806 ug/l

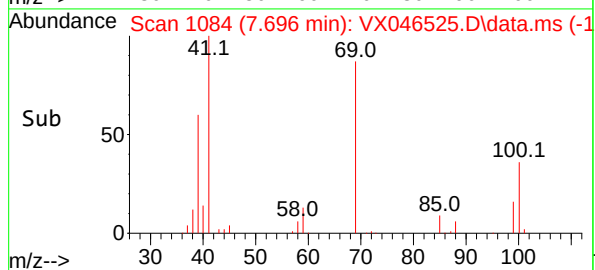
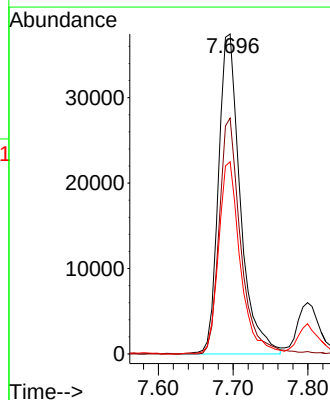
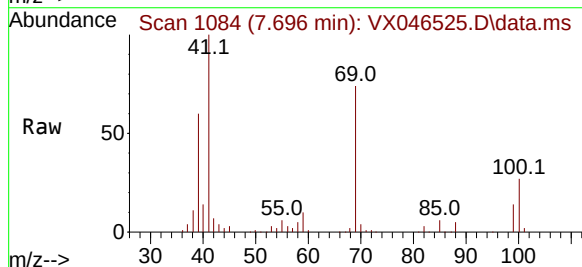
RT: 7.696 min Scan# 1084

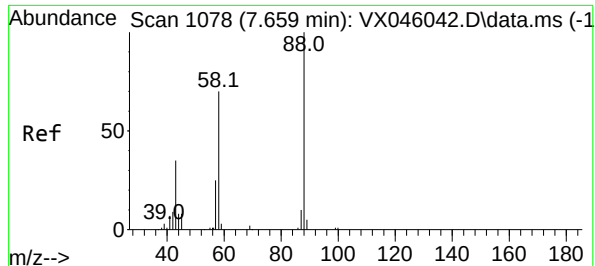
Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Tgt Ion:	41	Resp:	76134
Ion	Ratio	Lower	Upper
41	100		
69	72.8	58.5	87.7
39	60.1	51.7	77.5





#49

1,4-Dioxane

Concen: 1082.971 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX060625

Tgt Ion: 88 Resp: 20118

Ion Ratio Lower Upper

88 100

43 43.3 33.4 50.2

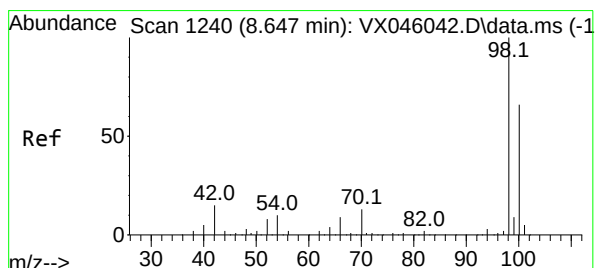
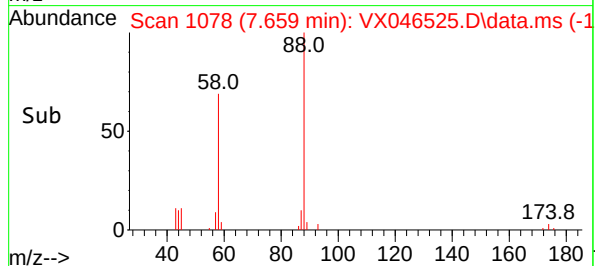
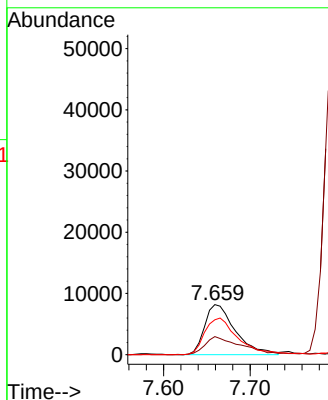
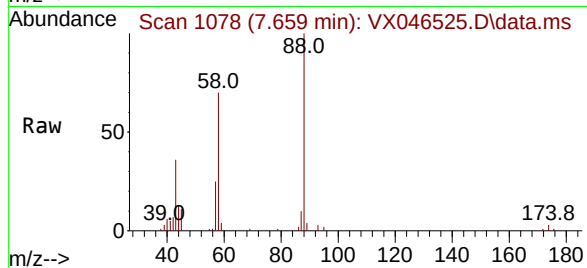
58 79.7 58.6 88.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#50

Toluene-d8

Concen: 50.025 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX046525.D

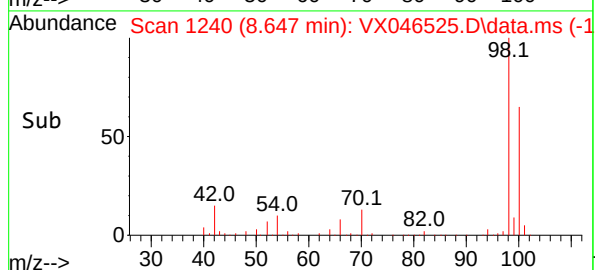
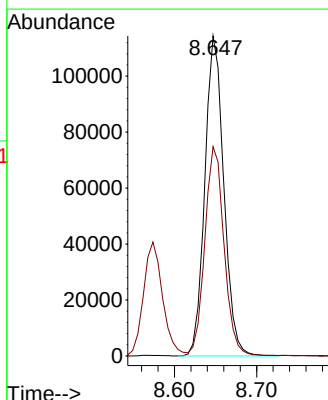
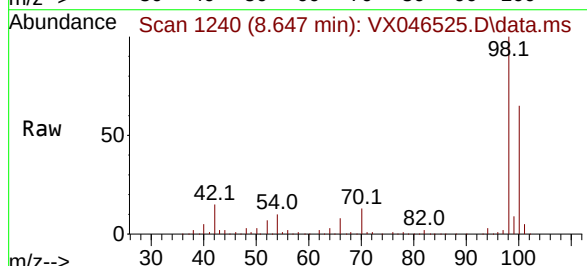
Acq: 06 Jun 2025 14:11

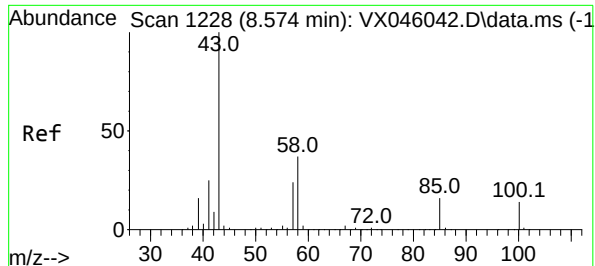
Tgt Ion: 98 Resp: 183212

Ion Ratio Lower Upper

98 100

100 66.3 53.5 80.3





#51

4-Methyl-2-Pentanone

Concen: 271.760 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.001 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX060625

Tgt Ion: 43 Resp: 46625

Ion Ratio Lower Upper

43 100

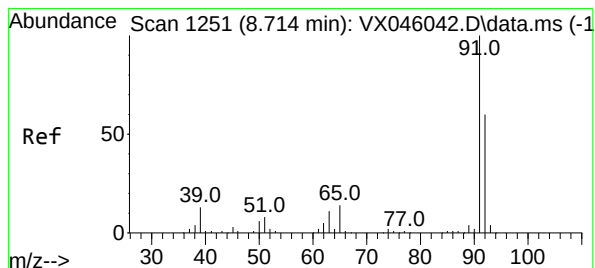
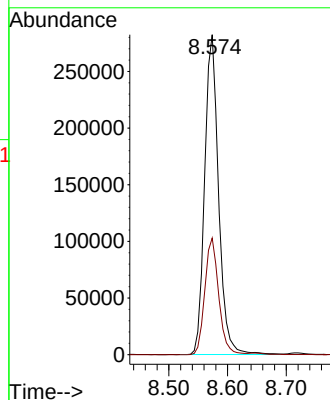
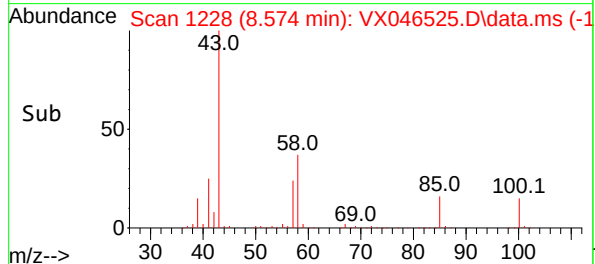
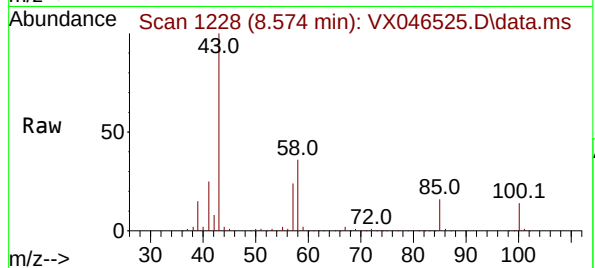
58 36.3 28.9 43.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#52

Toluene

Concen: 49.719 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.006 min

Lab File: VX046525.D

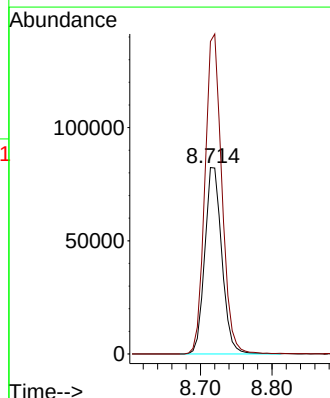
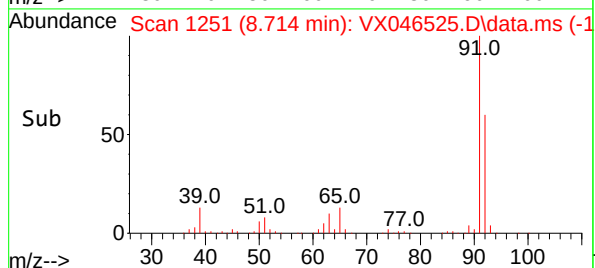
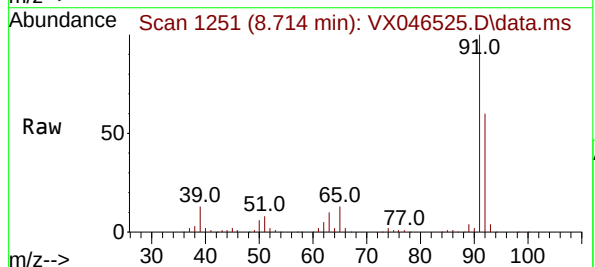
Acq: 06 Jun 2025 14:11

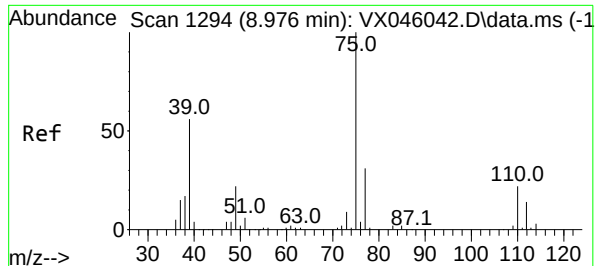
Tgt Ion: 92 Resp: 136448

Ion Ratio Lower Upper

92 100

91 170.1 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 53.526 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 75 Resp: 85590

Ion Ratio Lower Upper

75 100

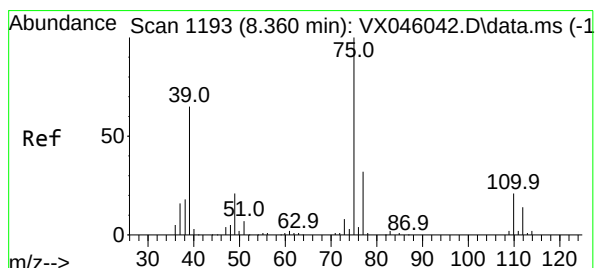
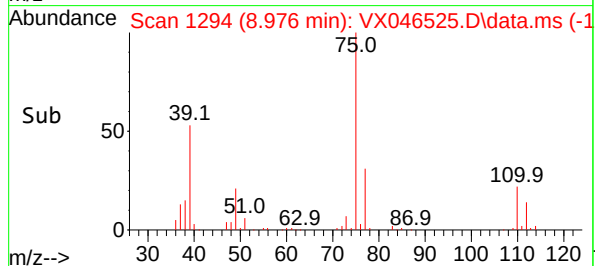
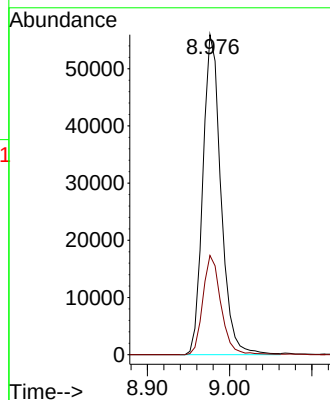
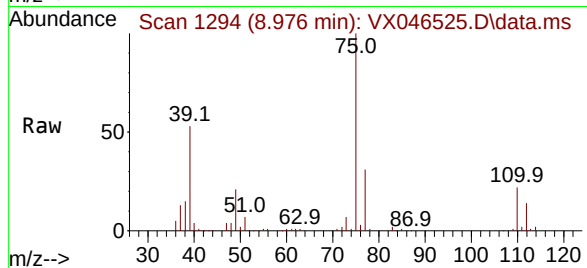
77 31.0 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#54

cis-1,3-Dichloropropene

Concen: 51.896 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

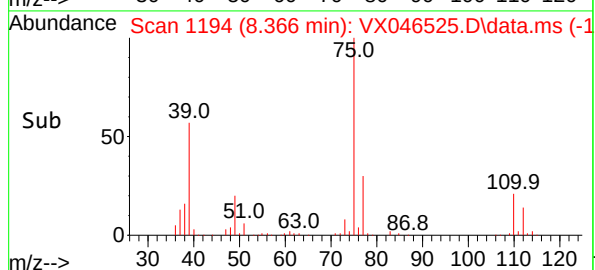
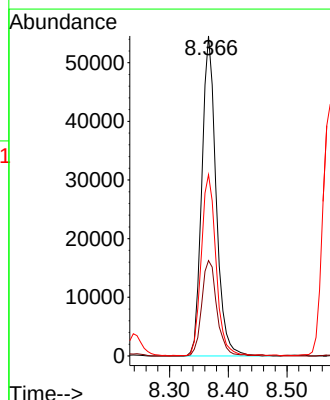
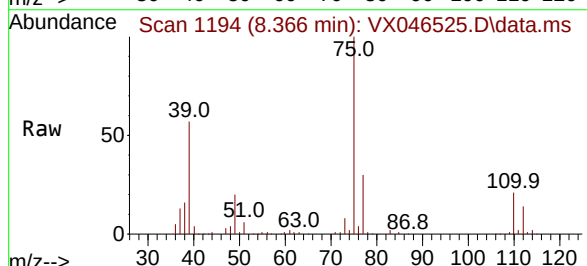
Tgt Ion: 75 Resp: 92273

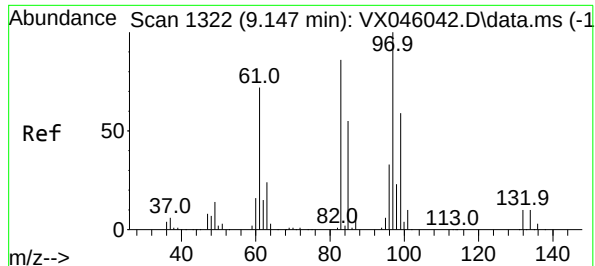
Ion Ratio Lower Upper

75 100

77 29.8 25.4 38.0

39 56.6 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 51.993 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. -0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX060625

Tgt Ion: 97 Resp: 5728

Ion Ratio Lower Upper

97 100

83 86.4 69.0 103.6

85 56.1 44.3 66.5

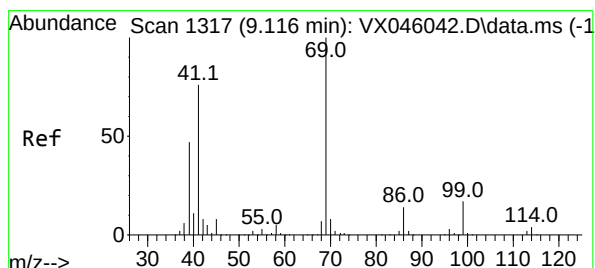
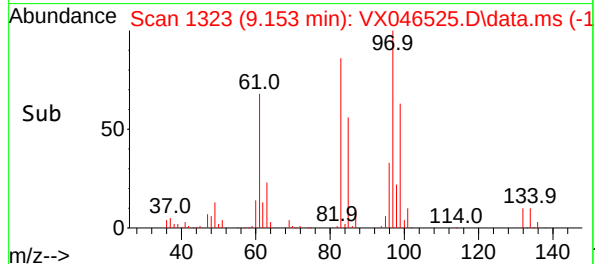
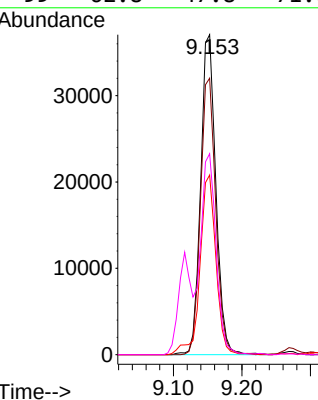
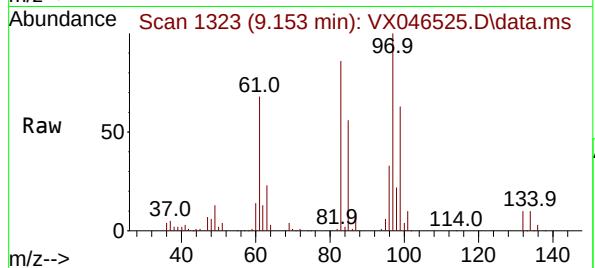
99 62.8 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#56

Ethyl methacrylate

Concen: 54.440 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

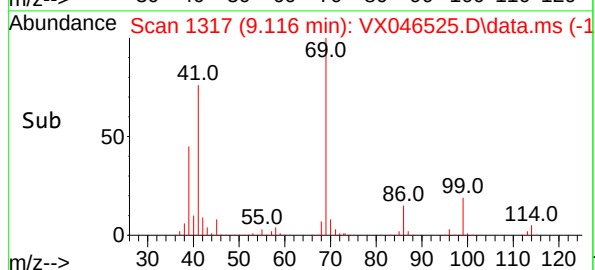
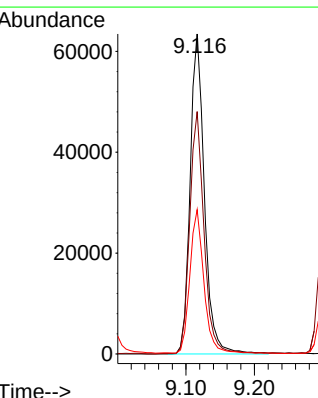
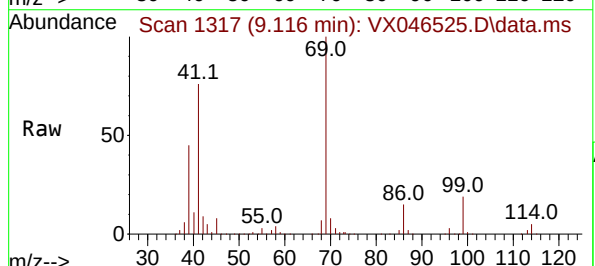
Tgt Ion: 69 Resp: 92299

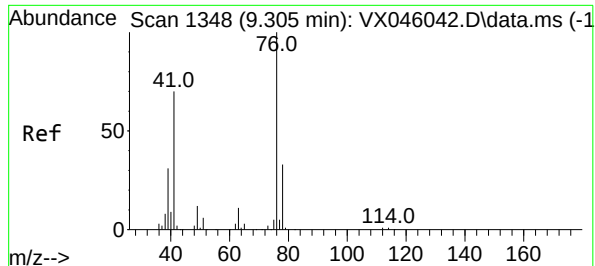
Ion Ratio Lower Upper

69 100

41 76.5 60.8 91.2

39 44.7 39.0 58.6





#57

1,3-Dichloropropane

Concen: 50.718 ug/l

RT: 9.305 min Scan# 1174

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX060625

Tgt Ion: 76 Resp: 98748

Ion Ratio Lower Upper

76 100

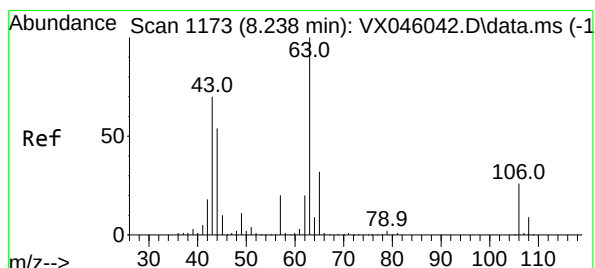
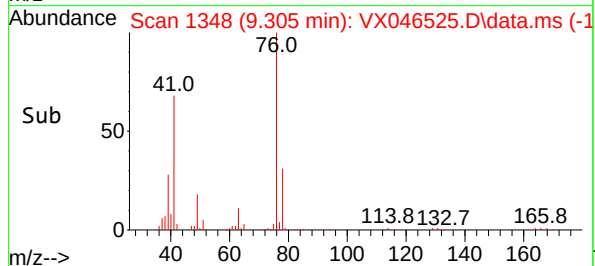
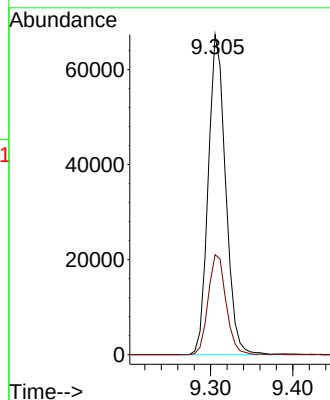
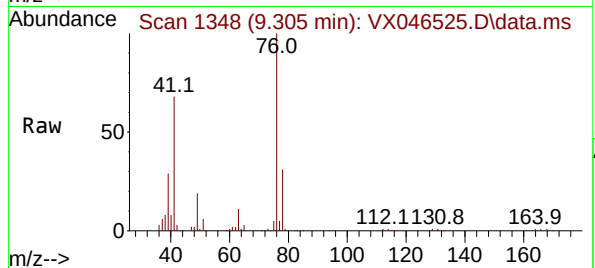
78 32.1 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#58

2-Chloroethyl Vinyl ether

Concen: 260.553 ug/l

RT: 8.245 min Scan# 1174

Delta R.T. 0.001 min

Lab File: VX046525.D

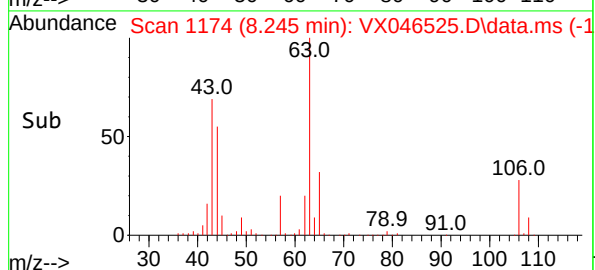
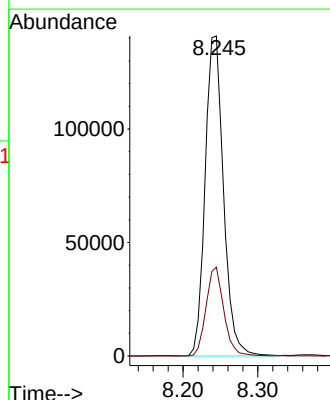
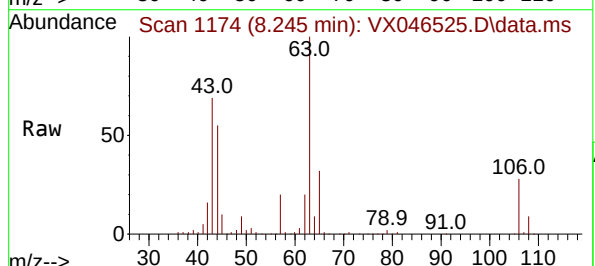
Acq: 06 Jun 2025 14:11

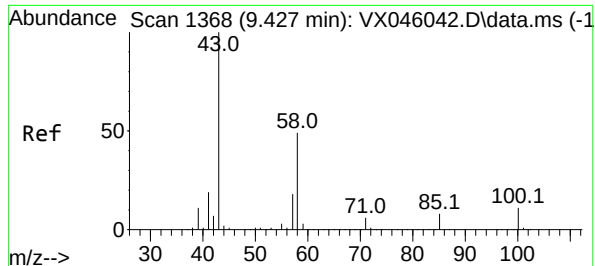
Tgt Ion: 63 Resp: 240616

Ion Ratio Lower Upper

63 100

106 26.7 21.5 32.3





#59

2-Hexanone

Concen: 274.165 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 43 Resp: 33735

Ion Ratio Lower Upper

43 100

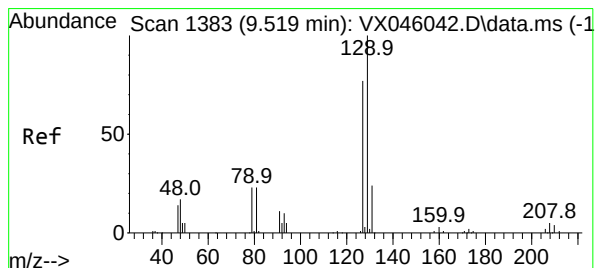
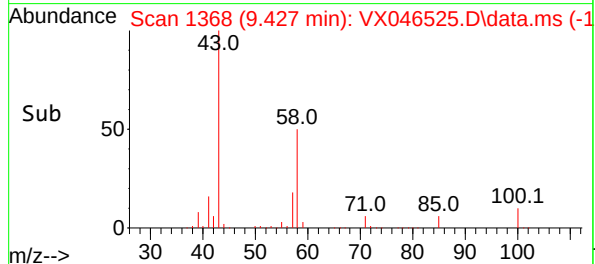
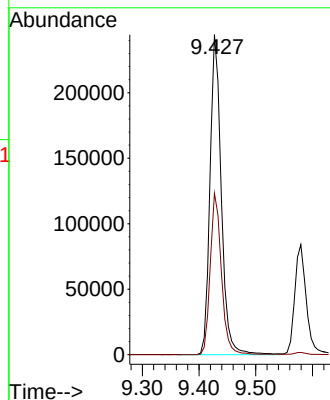
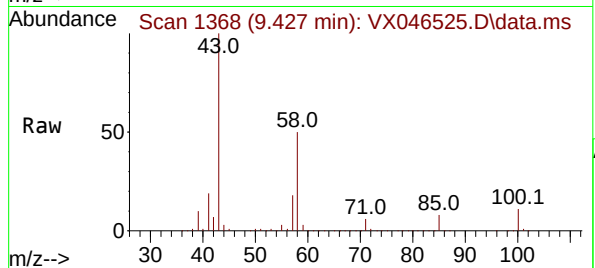
58 50.3 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#60

Dibromochloromethane

Concen: 53.100 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.006 min

Lab File: VX046525.D

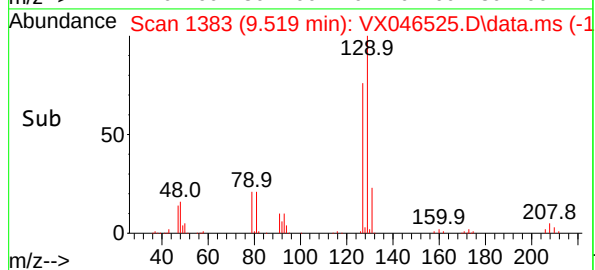
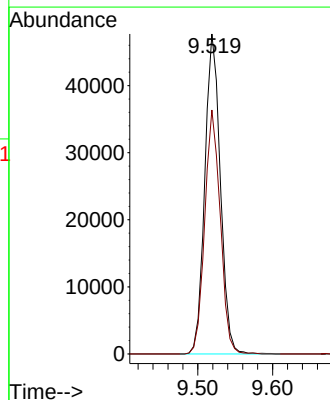
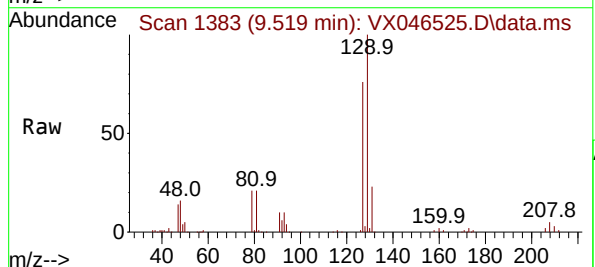
Acq: 06 Jun 2025 14:11

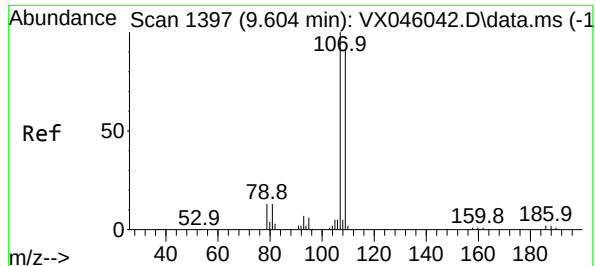
Tgt Ion:129 Resp: 68814

Ion Ratio Lower Upper

129 100

127 76.3 39.3 117.8





#61

1,2-Dibromoethane

Concen: 49.689 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion:107 Resp: 5704

Ion Ratio Lower Upper

107 100

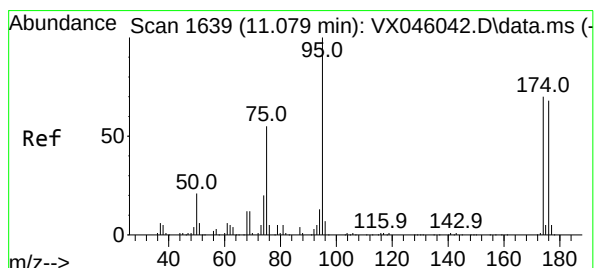
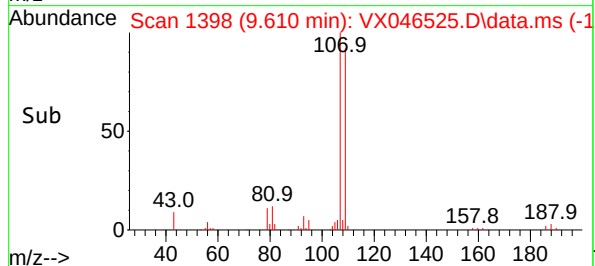
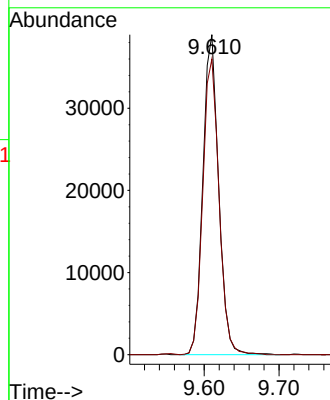
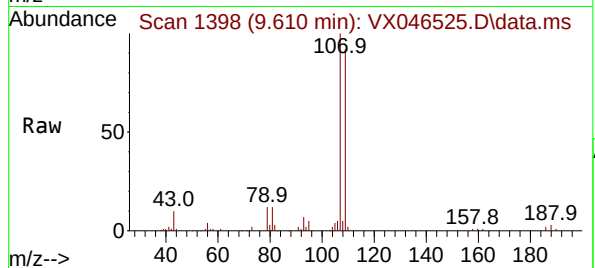
109 95.1 73.3 109.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#62

4-Bromofluorobenzene

Concen: 49.880 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

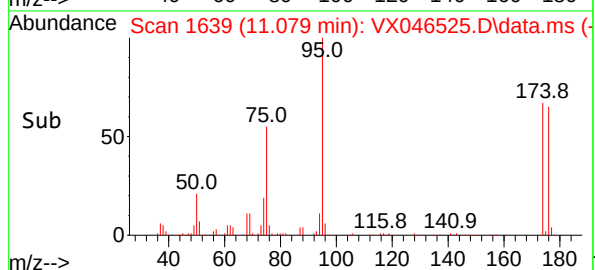
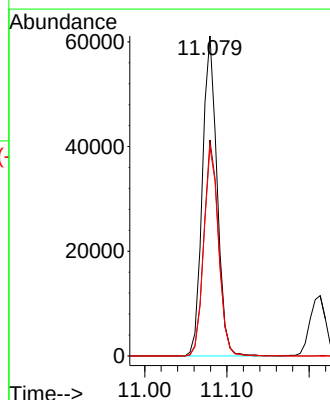
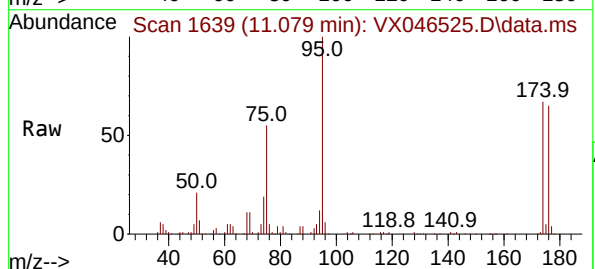
Tgt Ion: 95 Resp: 75584

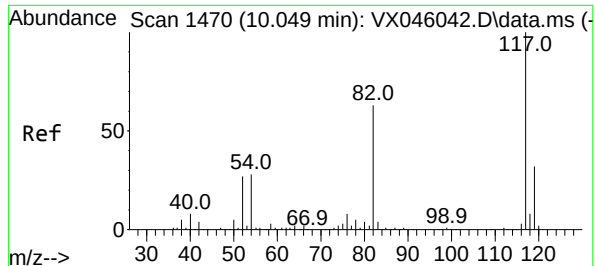
Ion Ratio Lower Upper

95 100

174 67.5 0.0 135.8

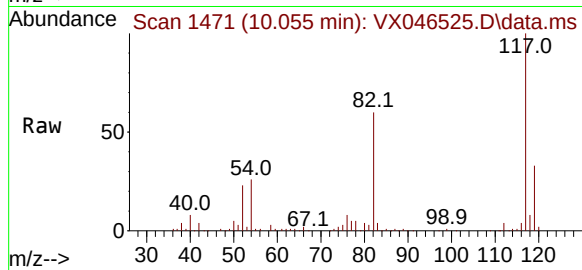
176 65.6 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

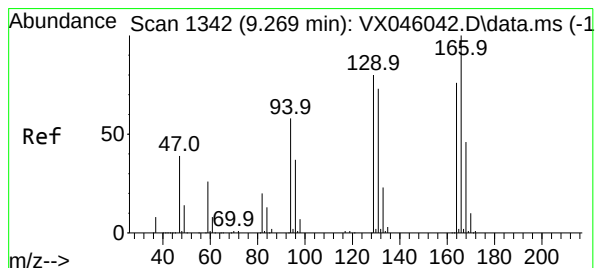
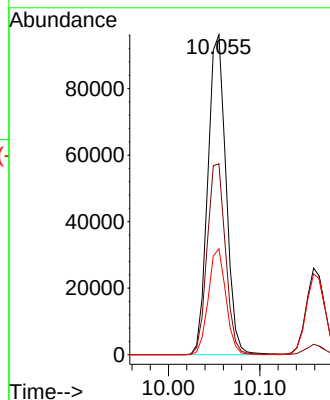
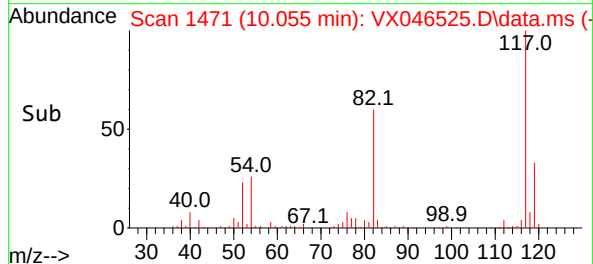
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



Tgt Ion:117 Resp: 132539
Ion Ratio Lower Upper
117 100
82 59.6 50.6 76.0
119 33.1 25.8 38.6

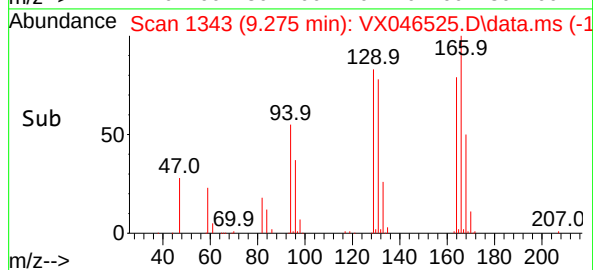
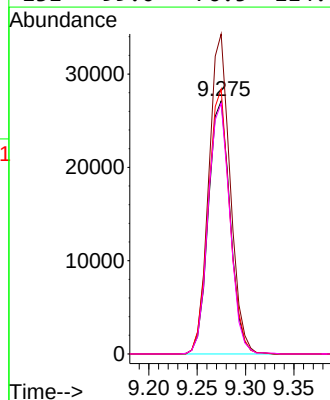
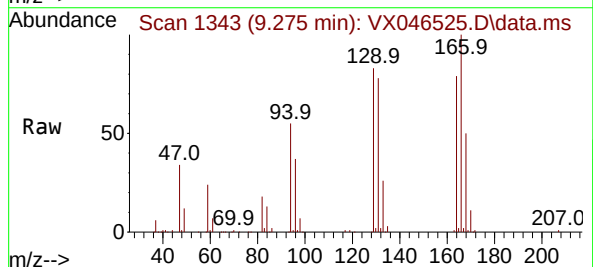
Manual Integrations
APPROVED

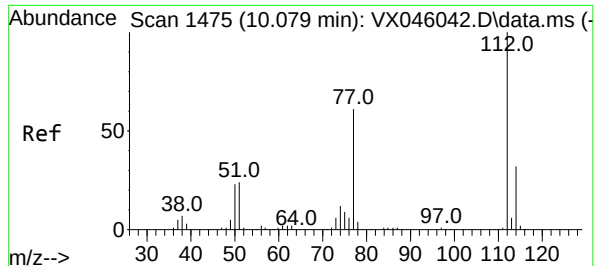
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#64
Tetrachloroethene
Concen: 47.739 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Tgt Ion:164 Resp: 42310
Ion Ratio Lower Upper
164 100
166 126.5 105.0 157.6
129 104.6 83.5 125.3
131 99.0 76.5 114.7





#65

Chlorobenzene

Concen: 49.518 ug/l

RT: 10.080 min Scan# 1475

Delta R.T. 0.001 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX060625

Tgt Ion:112 Resp: 15435

Ion Ratio Lower Upper

112 100

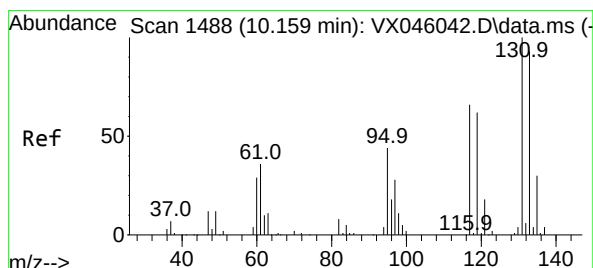
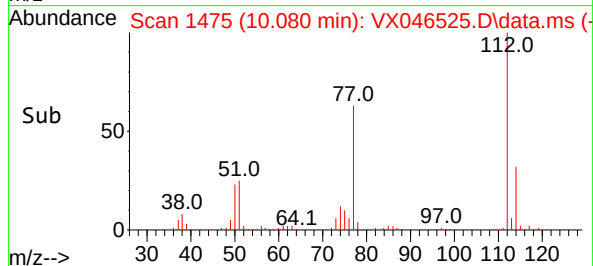
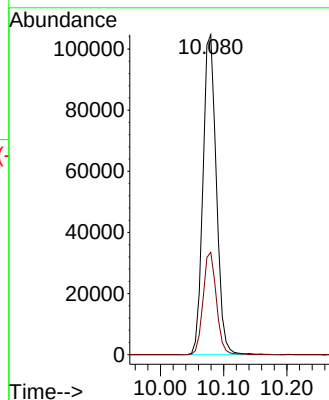
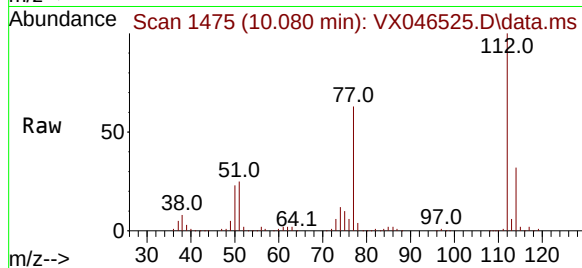
114 32.0 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 52.723 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

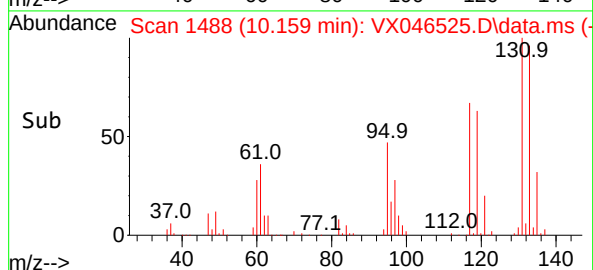
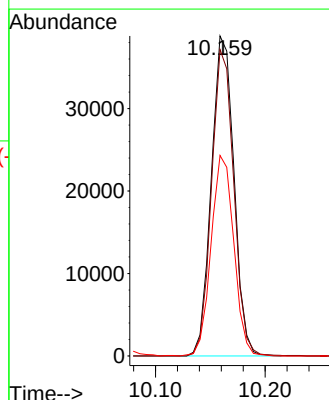
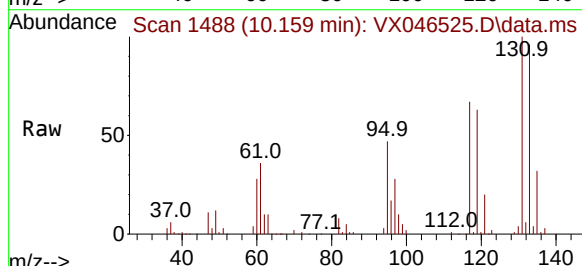
Tgt Ion:131 Resp: 55536

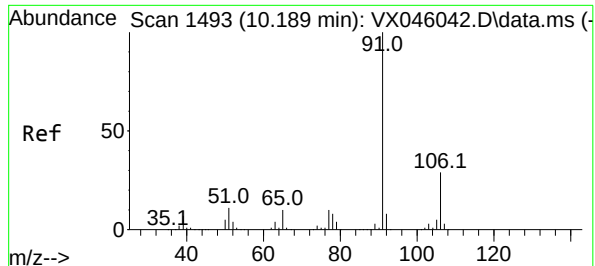
Ion Ratio Lower Upper

131 100

133 94.1 47.3 141.9

119 63.0 31.6 95.0





#67

Ethyl Benzene

Concen: 50.288 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 91 Resp: 273659

Ion Ratio Lower Upper

91 100

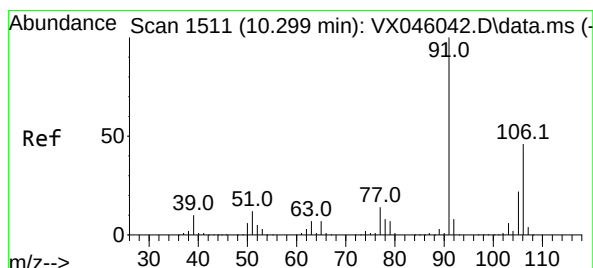
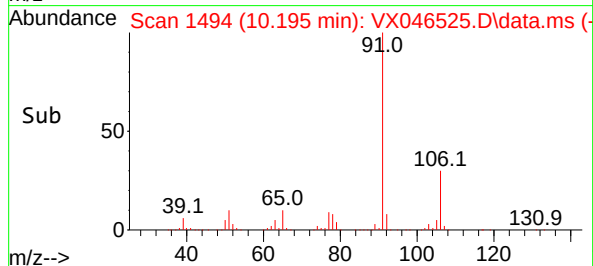
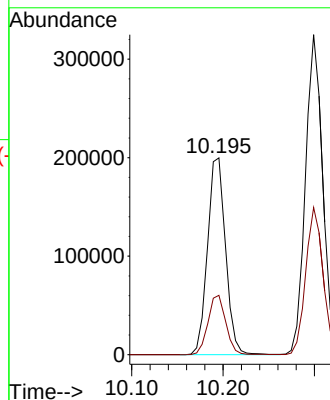
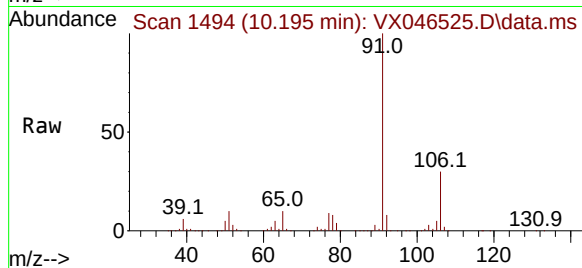
106 30.2 23.4 35.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#68

m/p-Xylenes

Concen: 100.941 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX046525.D

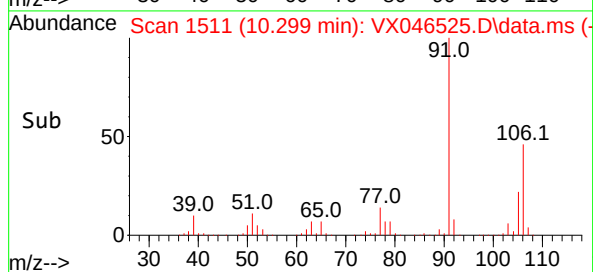
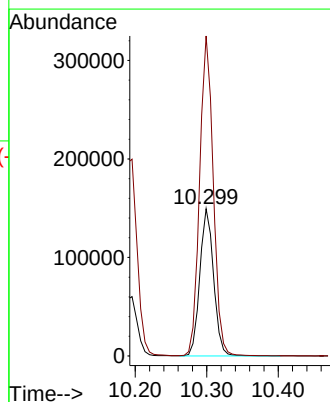
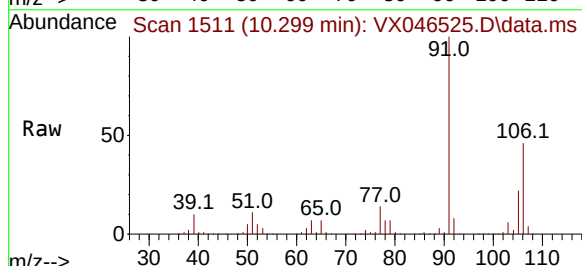
Acq: 06 Jun 2025 14:11

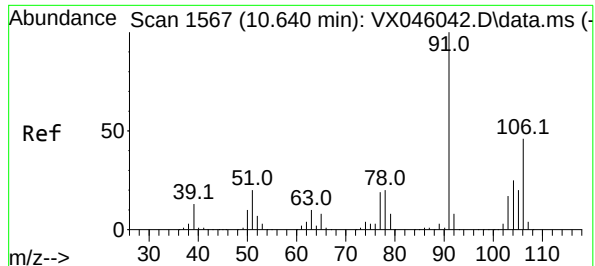
Tgt Ion:106 Resp: 199258

Ion Ratio Lower Upper

106 100

91 215.6 171.2 256.8





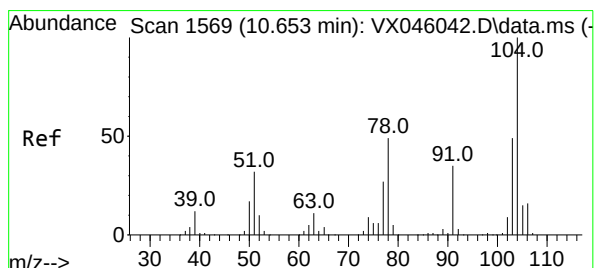
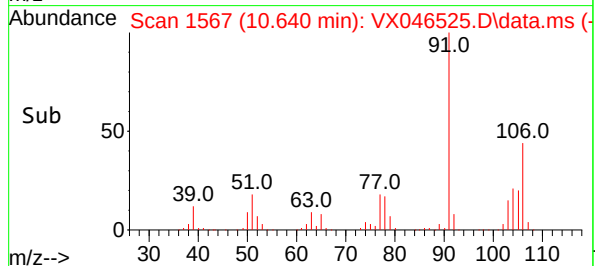
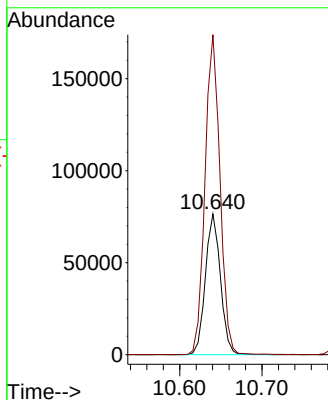
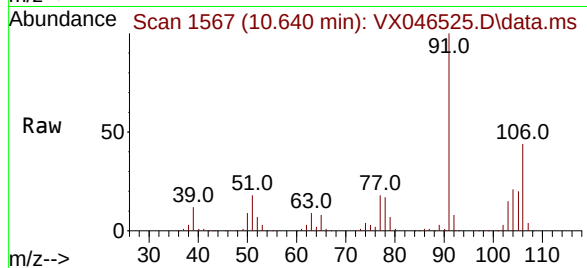
#69
o-Xylene
Concen: 50.882 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Tgt Ion:106 Resp: 9715
Ion Ratio Lower Upper
106 100
91 227.2 112.7 338.1

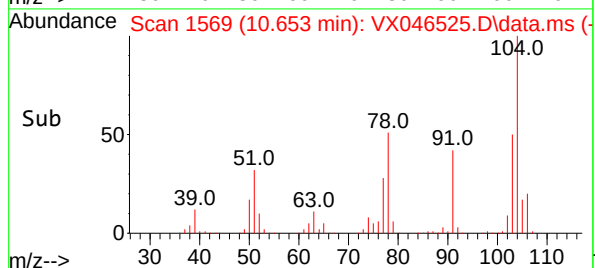
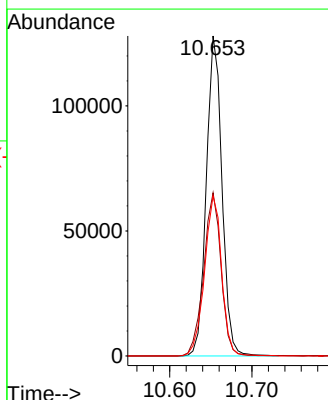
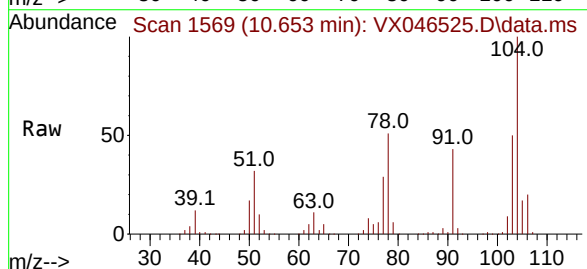
Manual Integrations
APPROVED

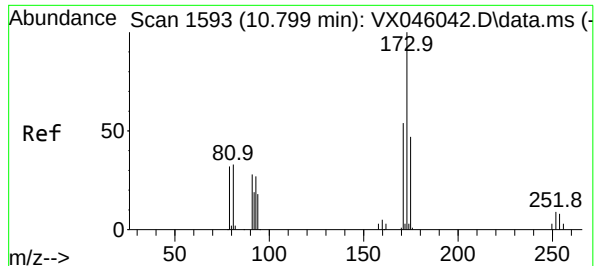
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#70
Styrene
Concen: 51.899 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.005 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

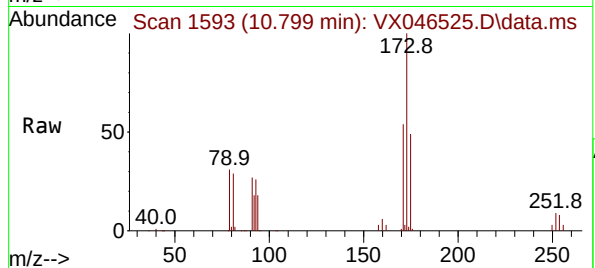
Tgt Ion:104 Resp: 169628
Ion Ratio Lower Upper
104 100
78 56.6 45.7 68.5
103 54.8 43.7 65.5





#71
Bromoform
Concen: 53.200 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

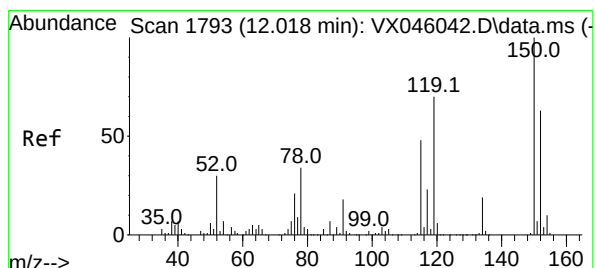
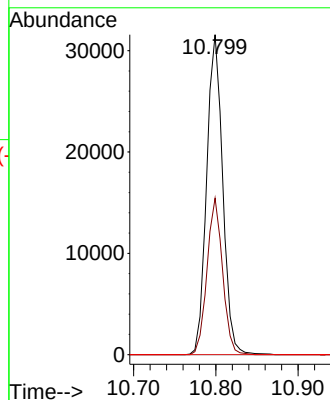
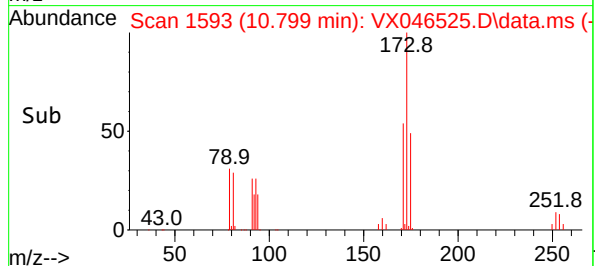
Instrument :
MSVOA_X
ClientSampleId :
ICVX060625



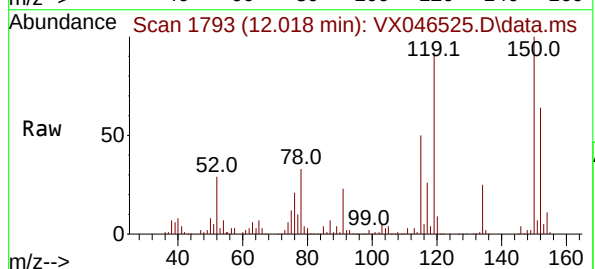
Tgt Ion:173 Resp: 42728
Ion Ratio Lower Upper
173 100
175 47.3 23.4 70.0
254 0.0 0.0 0.0

Manual Integrations
APPROVED

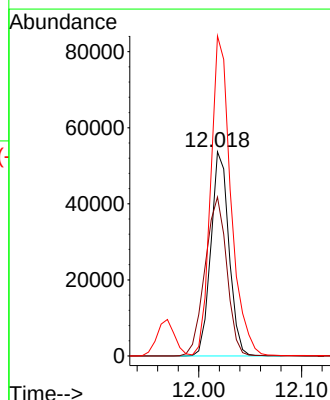
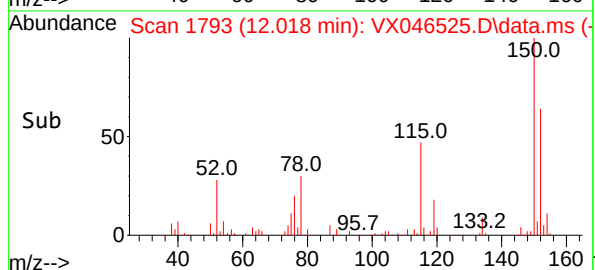
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

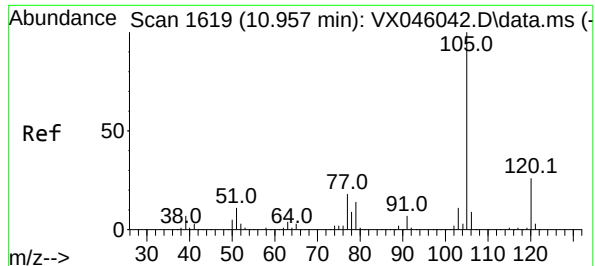


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11



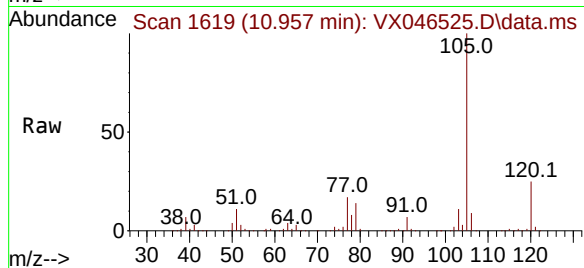
Tgt Ion:152 Resp: 65454
Ion Ratio Lower Upper
152 100
115 93.8 46.9 140.7
150 174.6 0.0 351.0





#73
Isopropylbenzene
Concen: 51.765 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

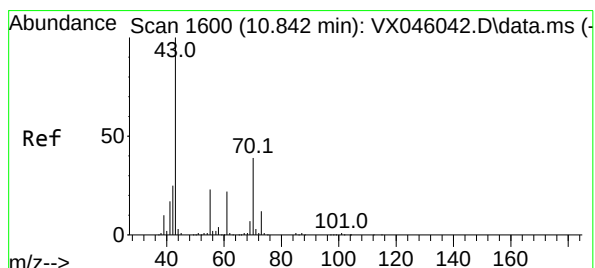
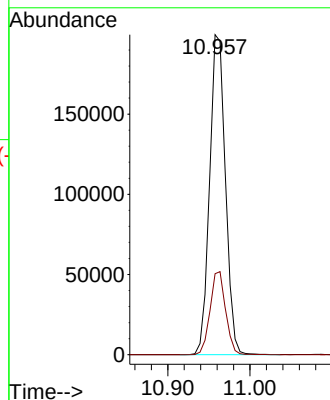
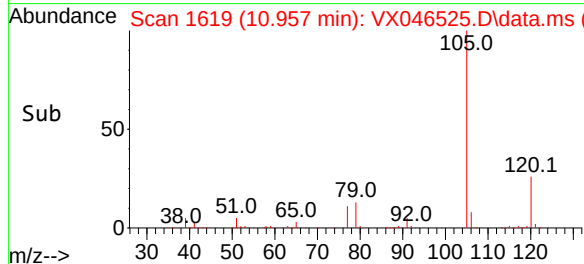
Instrument :
MSVOA_X
ClientSampleId :
ICVX060625



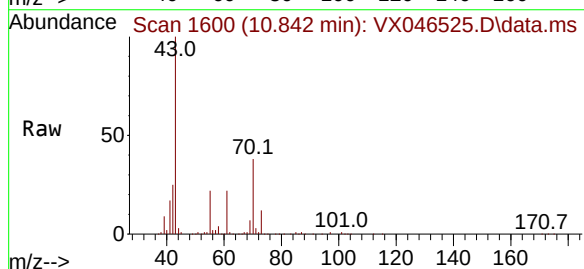
Tgt Ion:105 Resp: 26634
Ion Ratio Lower Upper
105 100
120 25.5 12.8 38.4

Manual Integrations
APPROVED

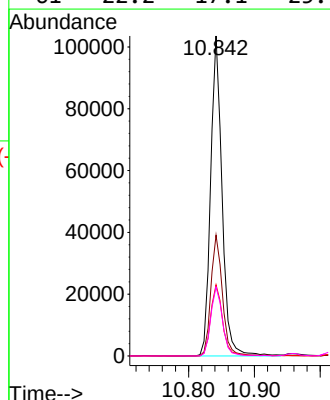
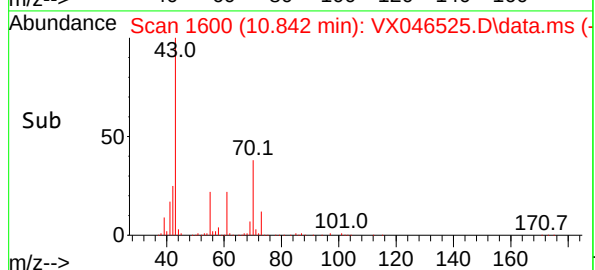
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

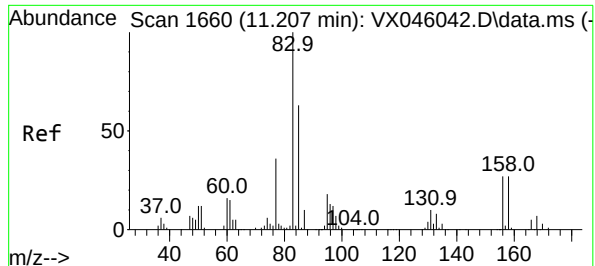


#74
N-ethyl acetate
Concen: 55.456 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.001 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11



Tgt Ion: 43 Resp: 125656
Ion Ratio Lower Upper
43 100
70 38.3 30.9 46.3
55 23.0 18.7 28.1
61 22.2 17.1 25.7





#75

1,1,2,2-Tetrachloroethane

Concen: 52.405 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

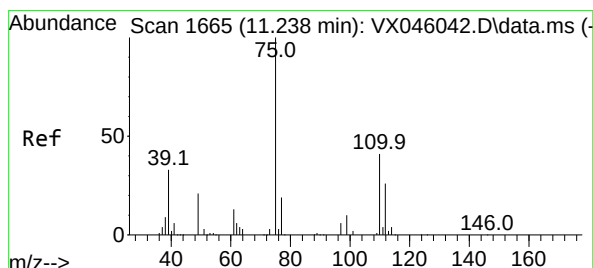
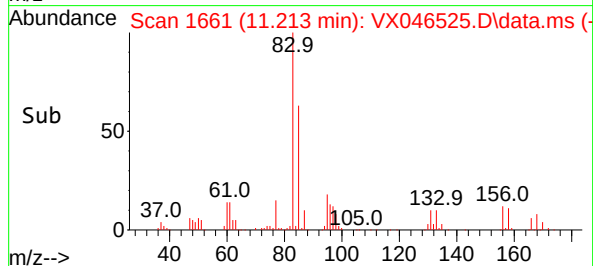
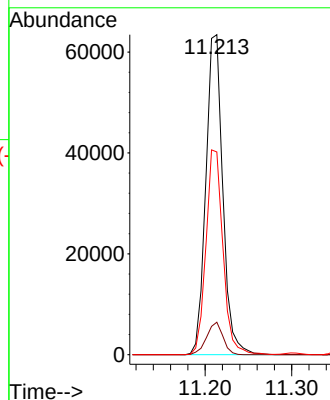
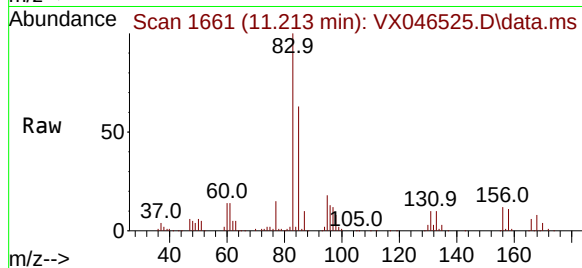
ICVVX060625

Tgt Ion:	83	Resp:	86308
Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	14.9
85	64.2	31.9	95.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#76

1,2,3-Trichloropropane

Concen: 53.262 ug/l m

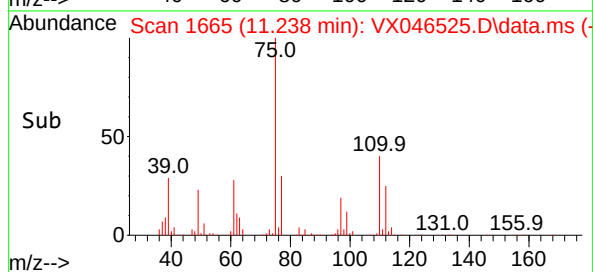
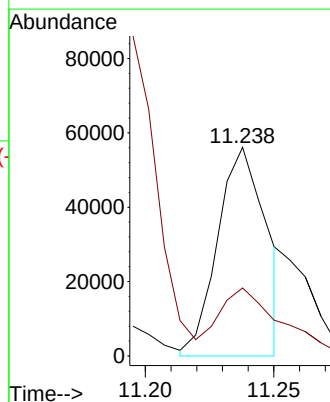
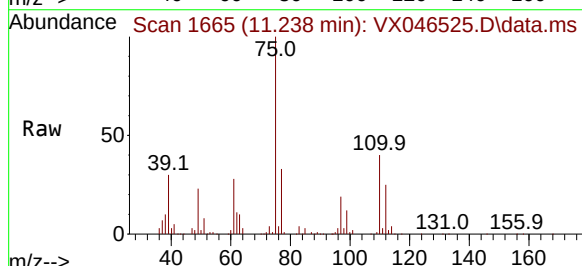
RT: 11.238 min Scan# 1665

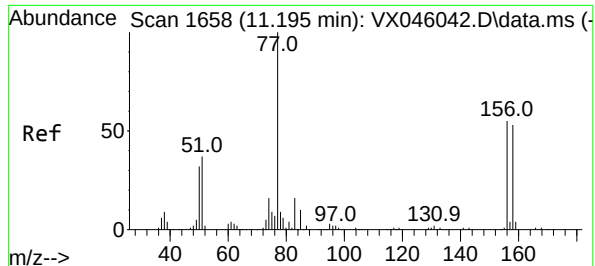
Delta R.T. -0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

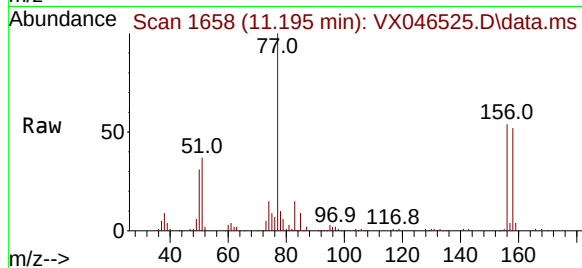
Tgt Ion:	75	Resp:	73842
Ion	Ratio	Lower	Upper
75	100		
77	42.1	20.5	61.5





#77
Bromobenzene
Concen: 50.748 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

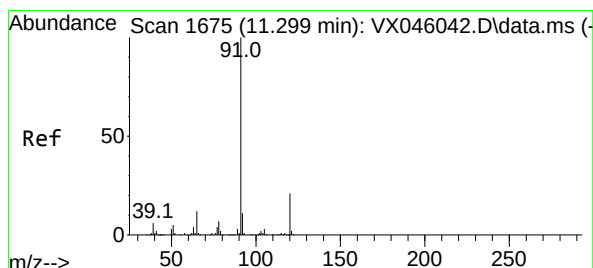
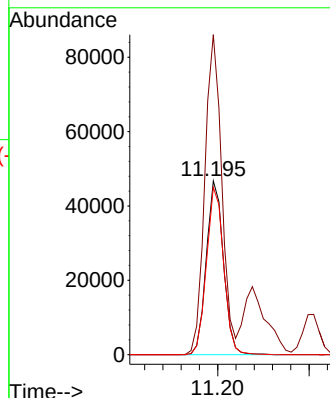
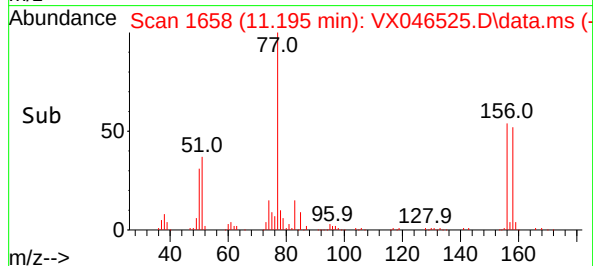
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



Tgt Ion:156 Resp: 6060
Ion Ratio Lower Upper
156 100
77 182.3 92.8 278.3
158 96.7 48.8 146.3

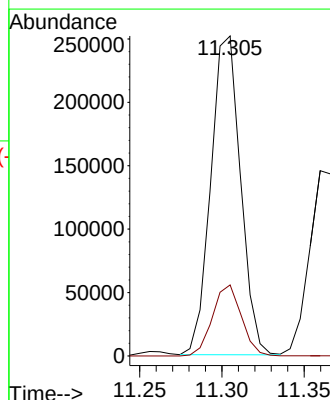
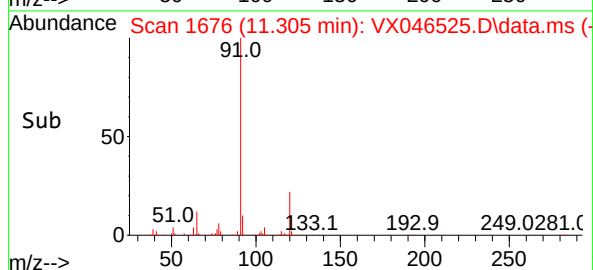
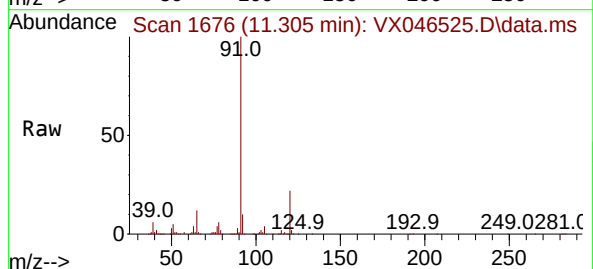
Manual Integrations
APPROVED

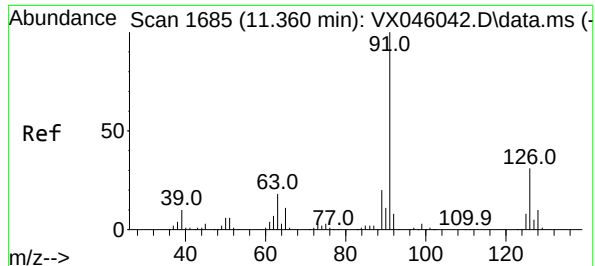
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#78
n-propylbenzene
Concen: 50.860 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Tgt Ion: 91 Resp: 316743
Ion Ratio Lower Upper
91 100
120 21.7 10.8 32.4





#79

2-Chlorotoluene

Concen: 51.014 ug/l

RT: 11.360 min Scan# 1

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX060625

Tgt Ion: 91 Resp: 19158

Ion Ratio Lower Upper

91 100

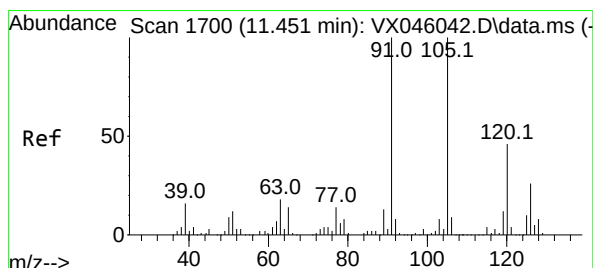
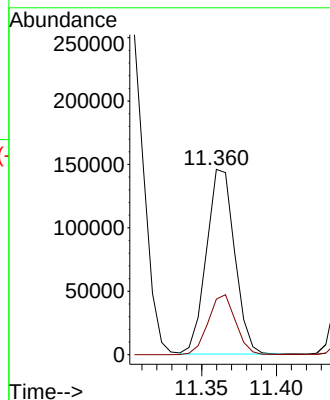
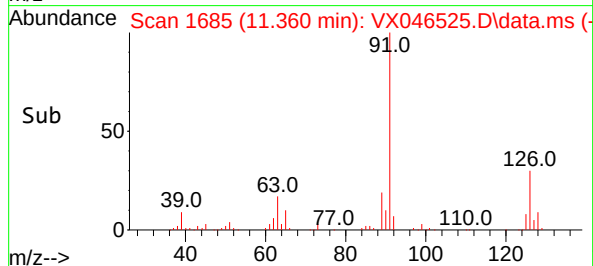
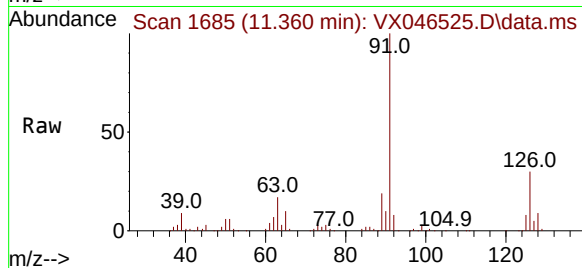
126 31.4 15.6 46.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#80

1,3,5-Trimethylbenzene

Concen: 51.612 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046525.D

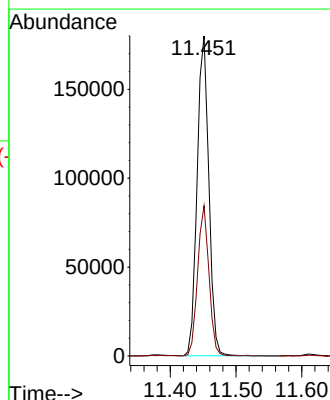
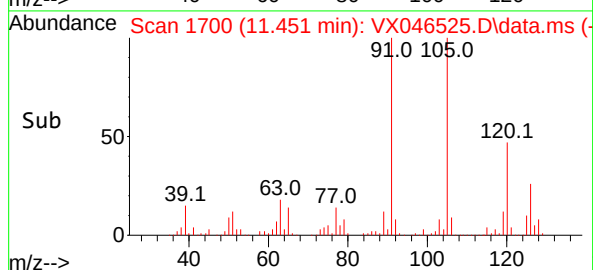
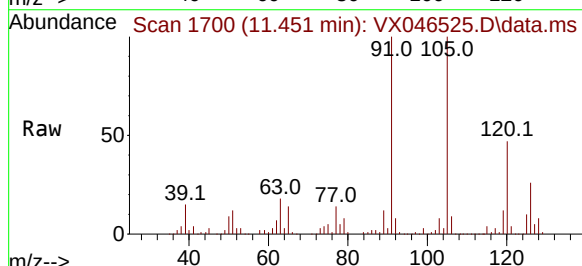
Acq: 06 Jun 2025 14:11

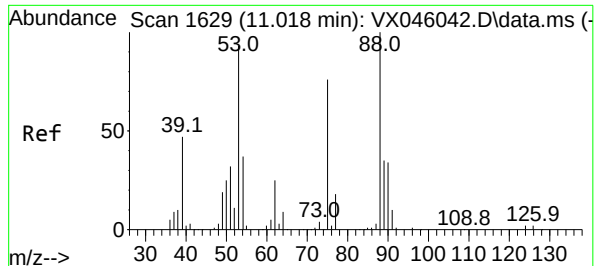
Tgt Ion:105 Resp: 221291

Ion Ratio Lower Upper

105 100

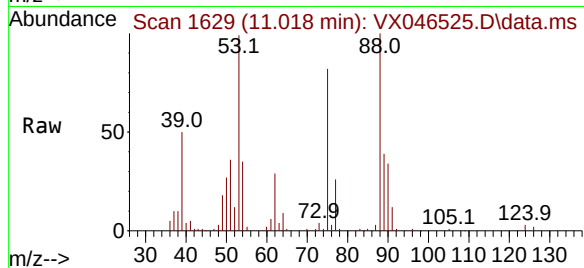
120 45.7 23.1 69.2





#81
trans-1,4-Dichloro-2-butene
Concen: 55.208 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

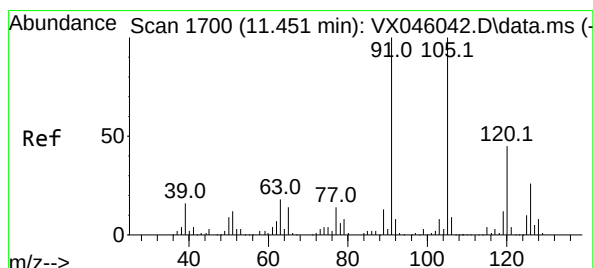
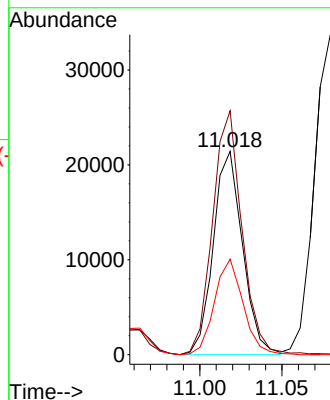
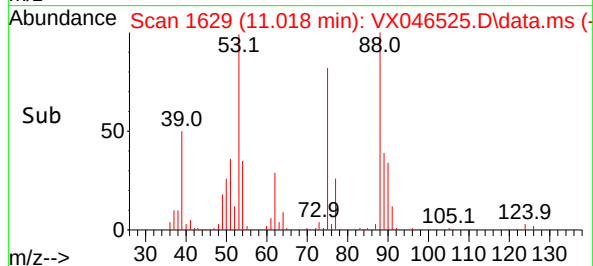
Instrument :
MSVOA_X
ClientSampleId :
ICVX060625



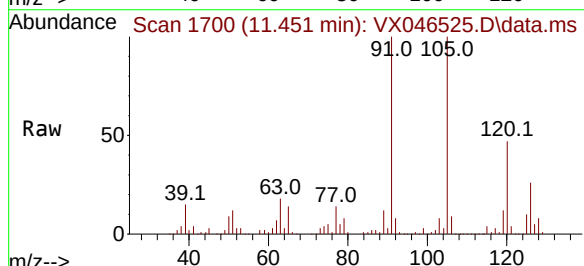
Tgt Ion: 75 Resp: 26534
Ion Ratio Lower Upper
75 100
53 120.6 100.5 150.7
89 46.0 37.0 55.6

Manual Integrations
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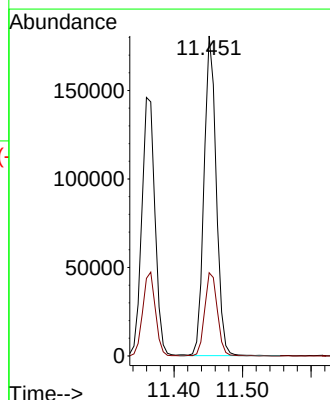
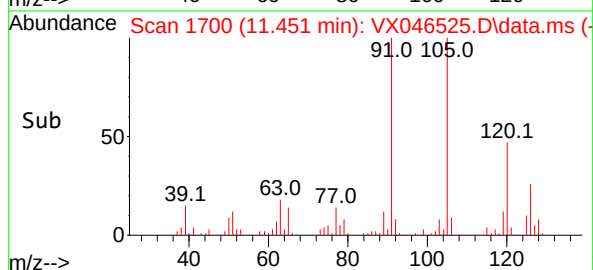
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

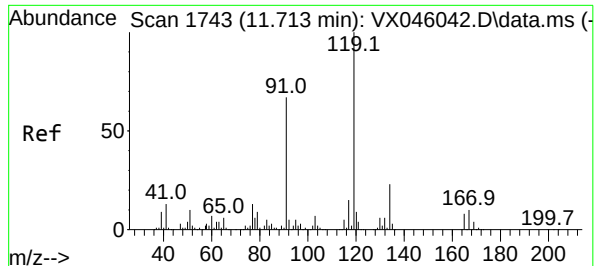


#82
4-Chlorotoluene
Concen: 50.368 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11



Tgt Ion: 91 Resp: 224207
Ion Ratio Lower Upper
91 100
126 27.0 13.3 39.8





#83

tert-Butylbenzene

Concen: 51.919 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion:119 Resp: 22661

Ion Ratio Lower Upper

119 100

91 63.9 32.9 98.7

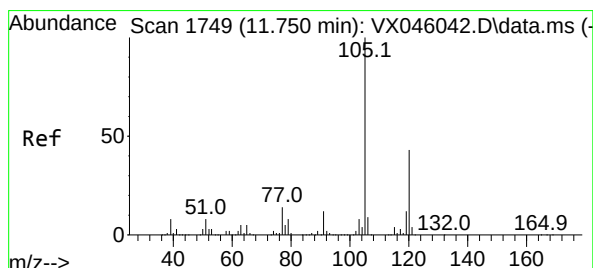
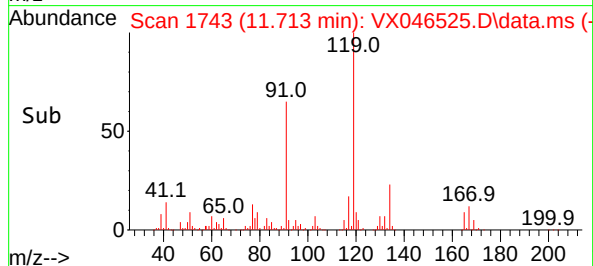
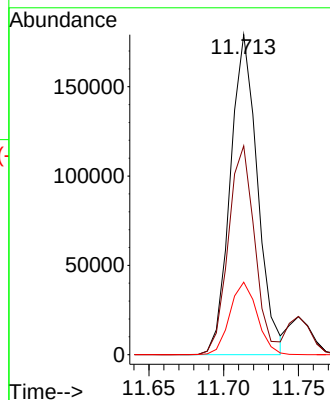
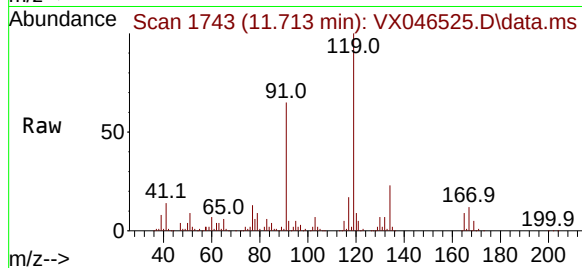
134 22.8 11.4 34.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#84

1,2,4-Trimethylbenzene

Concen: 51.464 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX046525.D

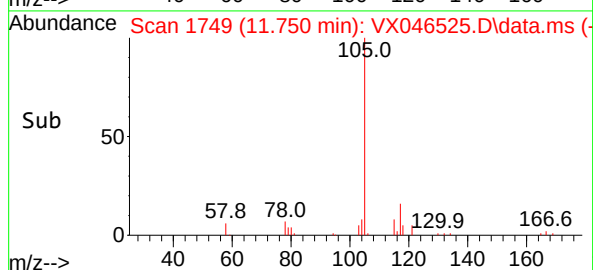
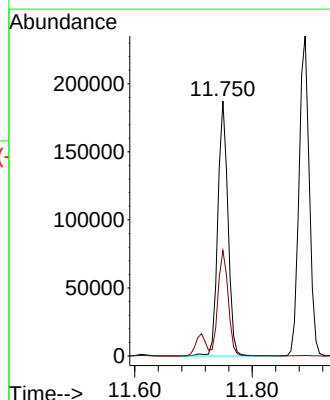
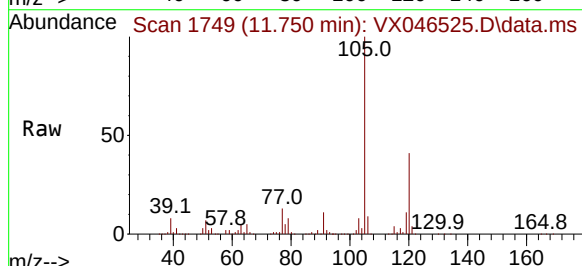
Acq: 06 Jun 2025 14:11

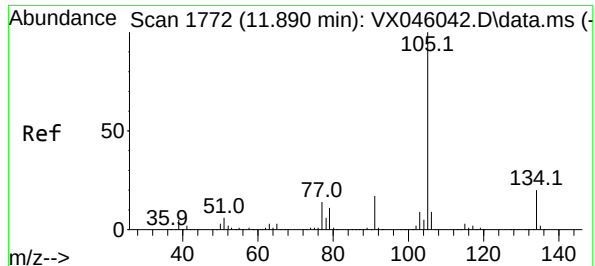
Tgt Ion:105 Resp: 223226

Ion Ratio Lower Upper

105 100

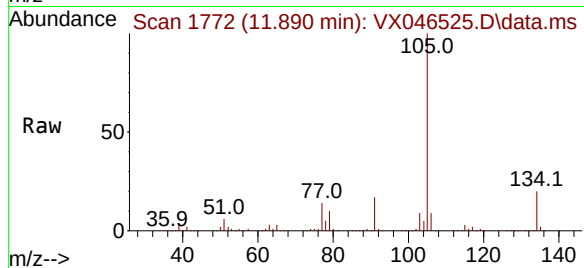
120 41.8 21.2 63.6





#85
sec-Butylbenzene
Concen: 50.644 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

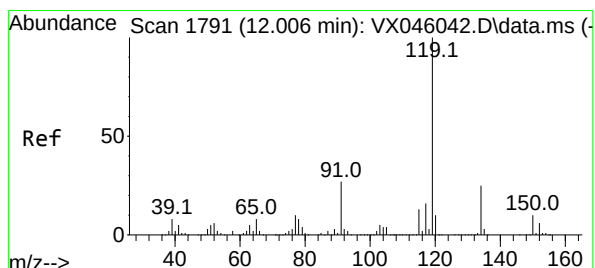
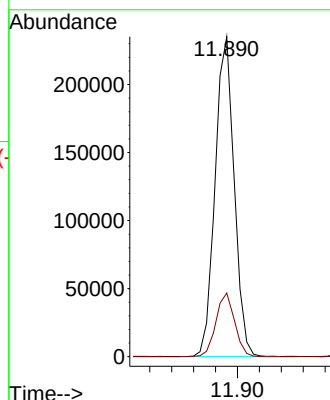
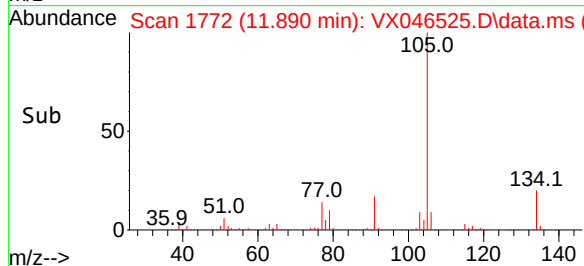
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



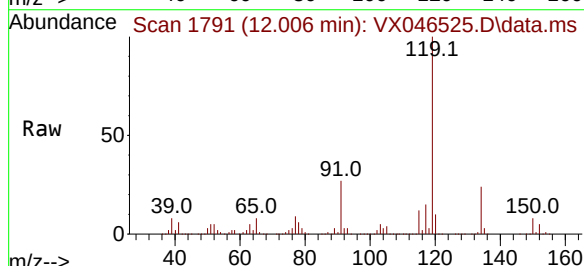
Tgt Ion:105 Resp: 28402
Ion Ratio Lower Upper
105 100
134 19.6 9.7 29.1

Manual Integrations
APPROVED

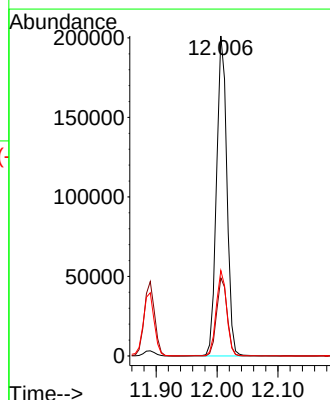
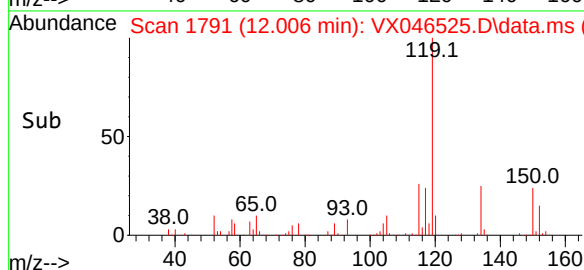
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

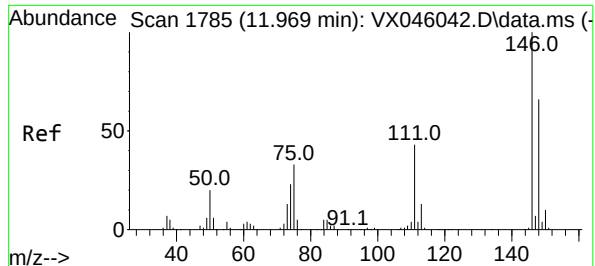


#86
p-Isopropyltoluene
Concen: 50.815 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11



Tgt Ion:119 Resp: 237583
Ion Ratio Lower Upper
119 100
134 24.8 12.5 37.5
91 26.9 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 49.171 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion:146 Resp: 114034

Ion Ratio Lower Upper

146 100

111 44.0 22.1 66.3

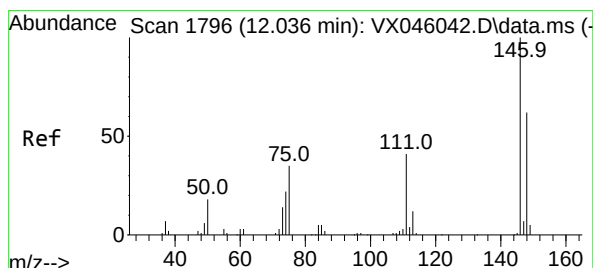
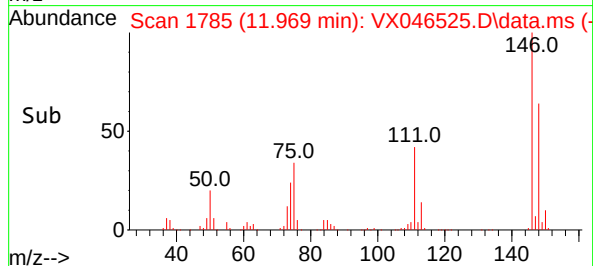
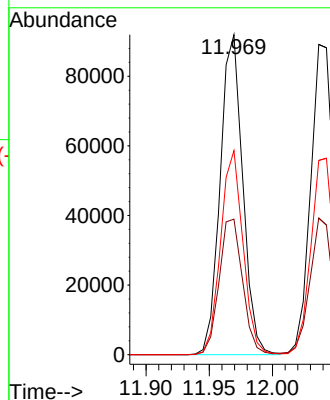
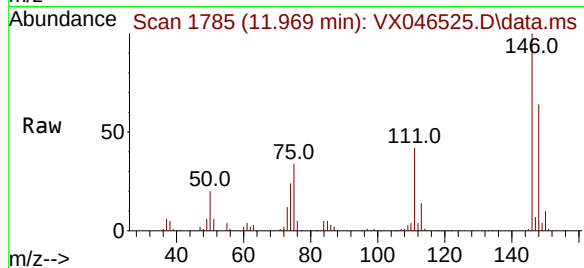
148 63.2 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 47.788 ug/l

RT: 12.037 min Scan# 1796

Delta R.T. -0.005 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

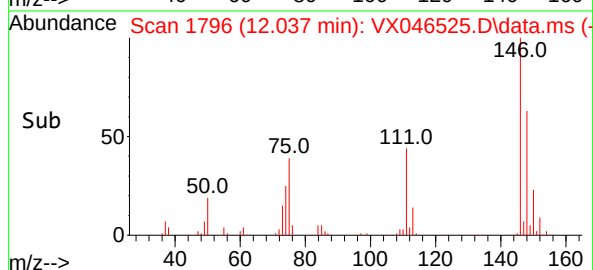
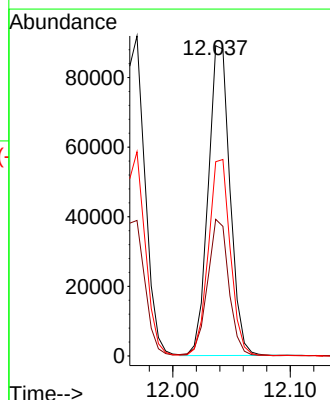
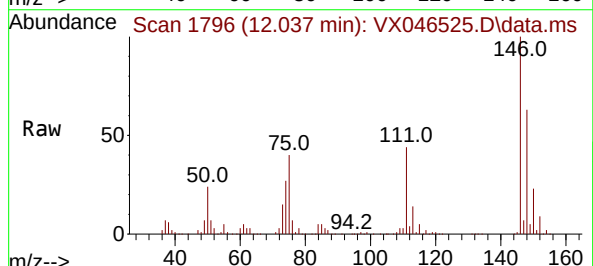
Tgt Ion:146 Resp: 114838

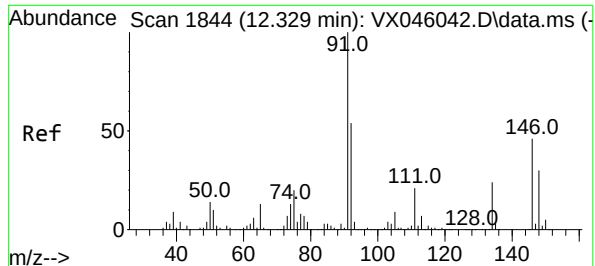
Ion Ratio Lower Upper

146 100

111 43.1 21.3 63.9

148 64.3 31.9 95.5





#89

n-Butylbenzene

Concen: 50.601 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 91 Resp: 23233

Ion Ratio Lower Upper

91 100

92 53.5 26.9 80.7

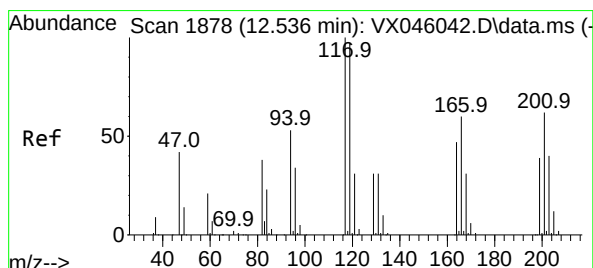
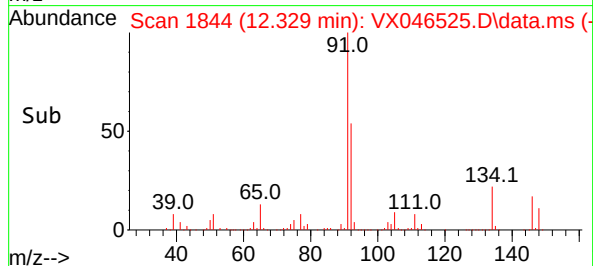
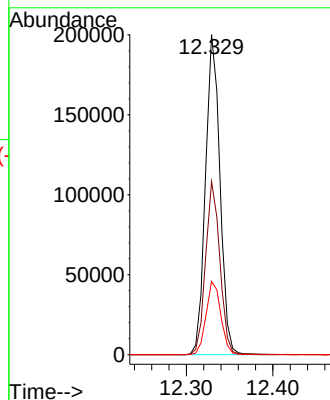
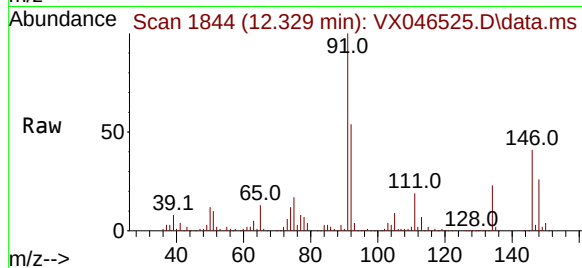
134 23.4 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 51.141 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046525.D

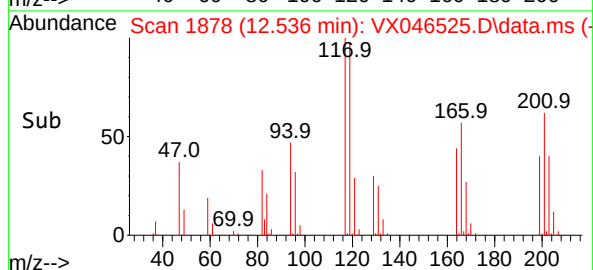
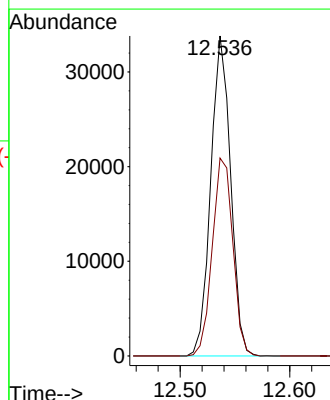
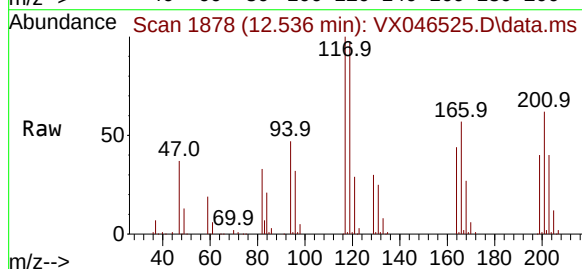
Acq: 06 Jun 2025 14:11

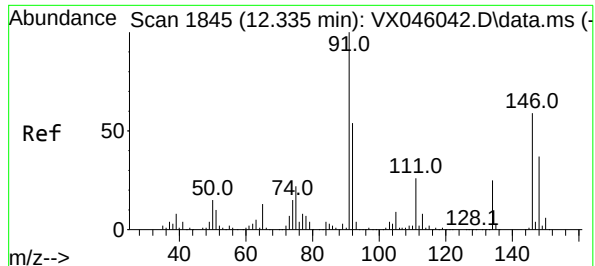
Tgt Ion:117 Resp: 42498

Ion Ratio Lower Upper

117 100

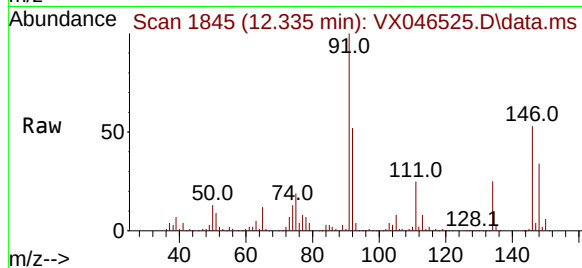
201 64.2 31.6 94.7





#91
1,2-Dichlorobenzene
Concen: 49.847 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

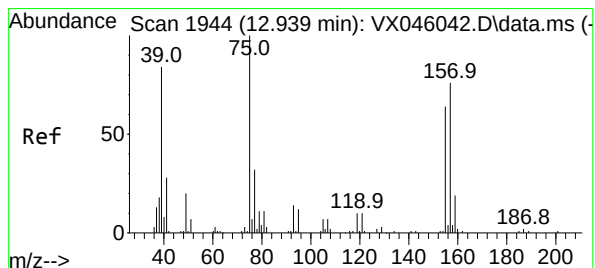
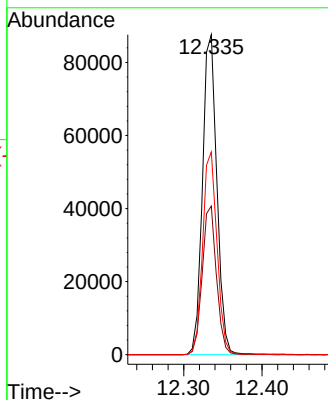
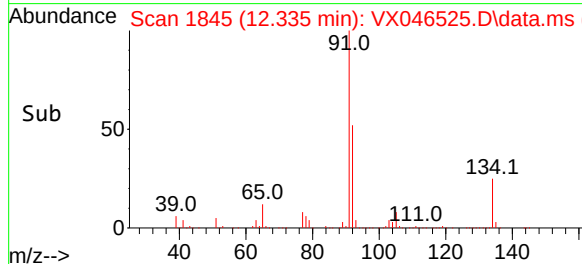
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



Tgt Ion:146 Resp: 11158
Ion Ratio Lower Upper
146 100
111 46.1 22.4 67.3
148 63.1 31.6 94.8

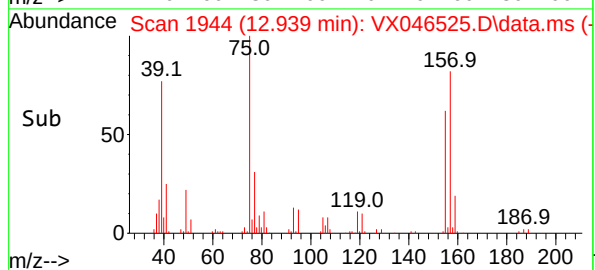
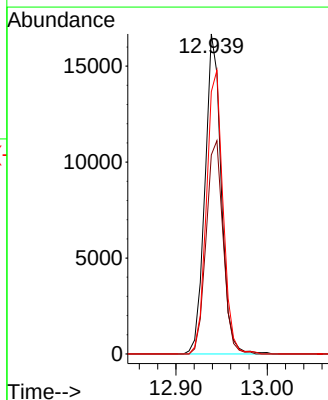
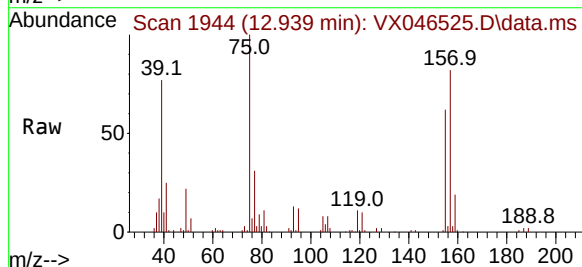
Manual Integrations
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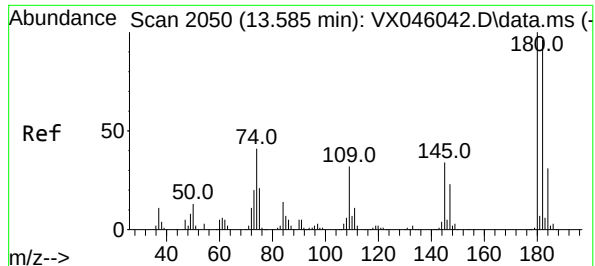
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 55.886 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Tgt Ion: 75 Resp: 20611
Ion Ratio Lower Upper
75 100
155 69.3 34.9 104.8
157 89.8 43.8 131.4





#93

1,2,4-Trichlorobenzene

Concen: 49.224 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX060625

Tgt Ion:180 Resp: 75169

Ion Ratio Lower Upper

180 100

182 95.1 47.9 143.8

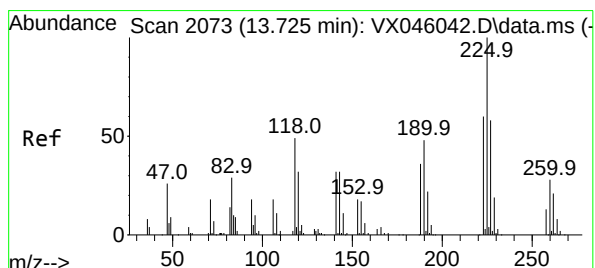
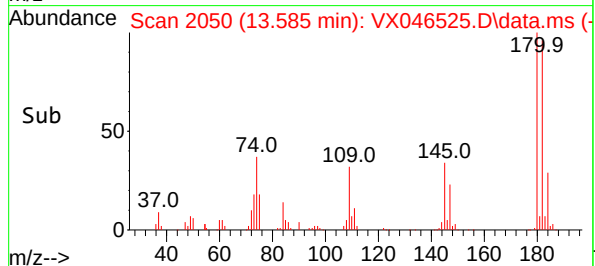
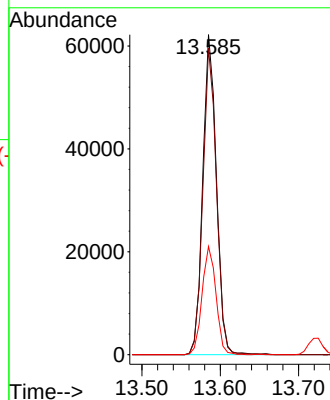
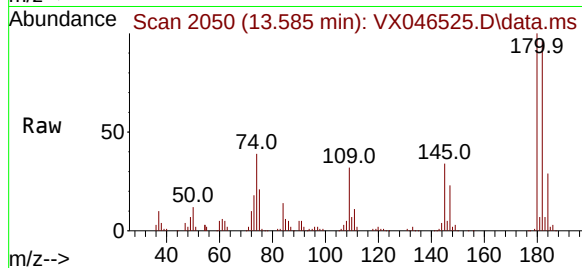
145 34.4 17.1 51.2

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#94

Hexachlorobutadiene

Concen: 47.222 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

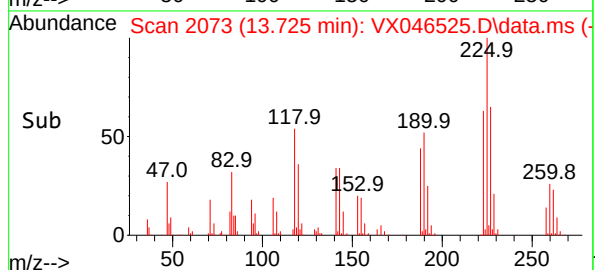
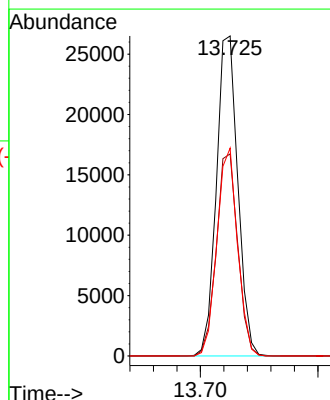
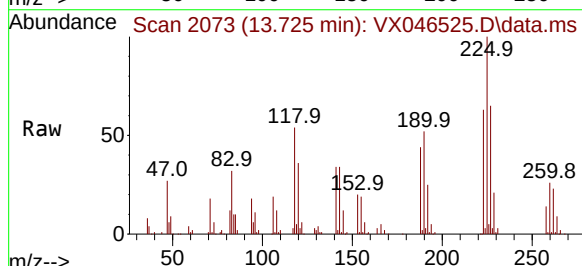
Tgt Ion:225 Resp: 33512

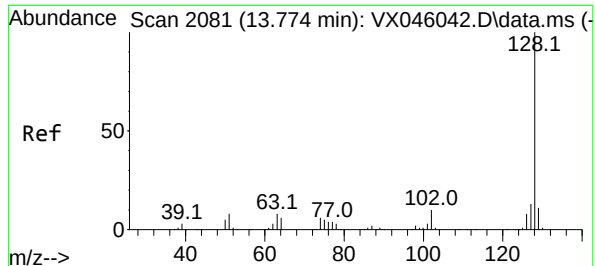
Ion Ratio Lower Upper

225 100

223 63.2 30.8 92.4

227 62.6 30.9 92.7





#95

Naphthalene

Concen: 53.245 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

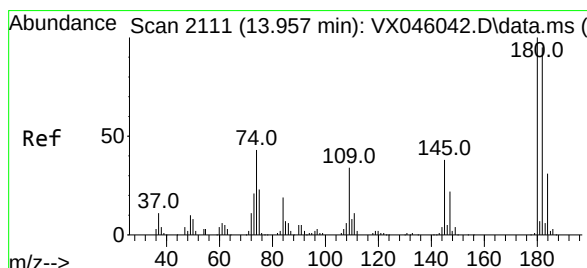
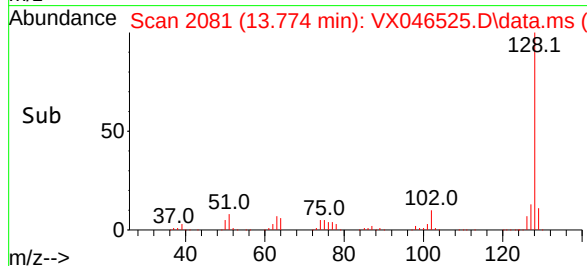
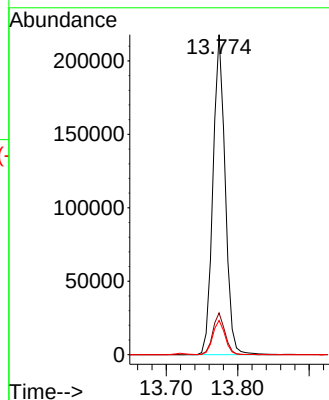
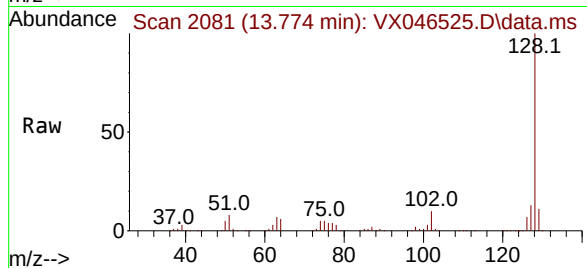
Tgt Ion:	128	Resp:	25784
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.4	15.6
129	10.8	8.6	13.0

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#96

1,2,3-Trichlorobenzene

Concen: 49.082 ug/l

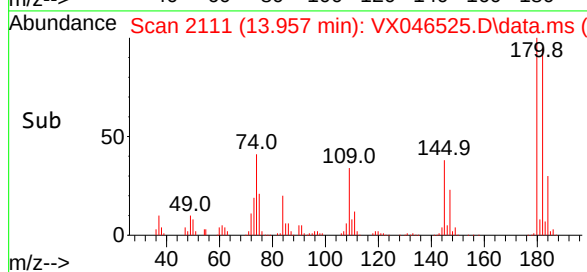
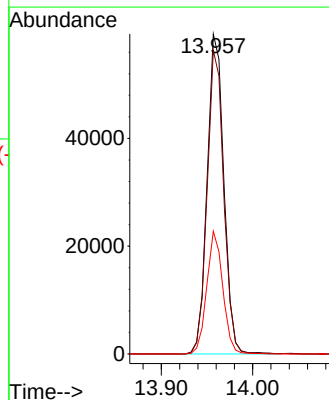
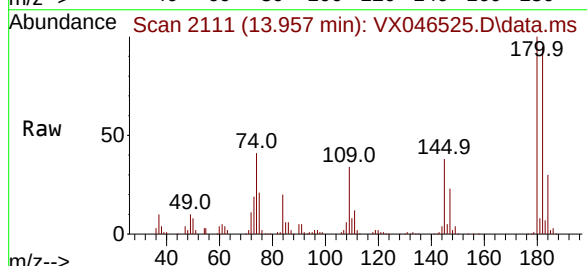
RT: 13.957 min Scan# 2111

Delta R.T. -0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Tgt Ion:	180	Resp:	75157
Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.8	143.3
145	36.9	18.1	54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX060625\
Data File : VX046525.D
Acq On : 06 Jun 2025 14:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Quant Time: Jun 06 16:57:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	97	0.00
2 T	Dichlorodifluoromethane	0.694	0.682	1.7	103	0.00
3 P	Chloromethane	0.632	0.609	3.6	103	0.00
4 C	Vinyl Chloride	0.630	0.624	1.0#	102	0.00
5 T	Bromomethane	0.382	0.389	-1.8	95	0.00
6 T	Chloroethane	0.409	0.384	6.1	100	0.00
7 T	Trichlorofluoromethane	1.042	1.038	0.4	99	0.00
8 T	Diethyl Ether	0.368	0.367	0.3	100	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	0.657	0.651	0.9	99	0.00
10 T	Methyl Iodide	0.712	0.773	-8.6	105	0.00
11 T	Tert butyl alcohol	0.099	0.108	-9.1	108	0.00
12 CM	1,1-Dichloroethene	0.594	0.583	1.9#	100	0.00
13 T	Acrolein	0.103	0.118	-14.6	102	0.00
14 T	Allyl chloride	1.166	1.202	-3.1	103	0.00
15 T	Acrylonitrile	0.373	0.398	-6.7	102	-0.01
16 T	Acetone	0.381	0.360	5.5	103	0.00
17 T	Carbon Disulfide	1.481	1.262	14.8	101	0.00
18 T	Methyl Acetate	1.060	1.216	-14.7	105	0.00
19 T	Methyl tert-butyl Ether	2.077	2.233	-7.5	103	-0.01
20 T	Methylene Chloride	0.714	0.685	4.1	101	0.00
21 T	trans-1,2-Dichloroethene	0.628	0.601	4.3	100	-0.01
22 T	Diisopropyl ether	2.298	2.429	-5.7	101	-0.01
23 T	Vinyl Acetate	1.775	1.889	-6.4	100	-0.01
24 P	1,1-Dichloroethane	1.281	1.312	-2.4	101	-0.01
25 T	2-Butanone	0.495	0.530	-7.1	102	-0.01
26 T	2,2-Dichloropropane	0.951	1.018	-7.0	102	-0.01
27 T	cis-1,2-Dichloroethene	0.773	0.762	1.4	100	0.00
28 T	Bromochloromethane	0.611	0.604	1.1	100	-0.01
29 T	Tetrahydrofuran	0.313	0.334	-6.7	103	0.00
30 C	Chloroform	1.342	1.369	-2.0#	101	-0.01
31 T	Cyclohexane	1.034	1.015	1.8	99	-0.01
32 T	1,1,1-Trichloroethane	1.148	1.186	-3.3	101	0.00
33 S	1,2-Dichloroethane-d4	0.890	0.894	-0.4	100	-0.01
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	97	-0.01
35 S	Dibromofluoromethane	0.368	0.375	-1.9	99	-0.01
36 T	1,1-Dichloropropene	0.525	0.501	4.6	100	-0.02
37 T	Ethyl Acetate	0.513	0.597	-16.4	104	-0.01
38 T	Carbon Tetrachloride	0.588	0.581	1.2	100	-0.01
39 T	Methylcyclohexane	0.620	0.590	4.8	100	0.00
40 TM	Benzene	1.479	1.469	0.7	100	-0.01
41 T	Methacrylonitrile	0.318	0.358	-12.6	107	-0.01
42 TM	1,2-Dichloroethane	0.615	0.626	-1.8	99	0.00
43 T	Isopropyl Acetate	0.894	0.970	-8.5	102	-0.01
44 TM	Trichloroethene	0.376	0.359	4.5	99	0.00
45 C	1,2-Dichloropropane	0.382	0.392	-2.6#	100	0.00
46 T	Dibromomethane	0.287	0.292	-1.7	101	0.00
47 T	Bromodichloromethane	0.590	0.625	-5.9	100	0.00
48 T	Methyl methacrylate	0.460	0.504	-9.6	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046525.D
Acq On : 06 Jun 2025 14:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Quant Time: Jun 06 16:57:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	0.006	0.007	-16.7	102	-0.01
50 S	Toluene-d8	1.212	1.213	-0.1	99	0.00
51 T	4-Methyl-2-Pentanone	0.568	0.617	-8.6	101	0.00
52 CM	Toluene	0.908	0.903	0.6#	99	0.00
53 T	t-1,3-Dichloropropene	0.529	0.567	-7.2	101	0.00
54 T	cis-1,3-Dichloropropene	0.589	0.611	-3.7	100	0.00
55 T	1,1,2-Trichloroethane	0.365	0.379	-3.8	100	0.00
56 T	Ethyl methacrylate	0.561	0.611	-8.9	101	0.00
57 T	1,3-Dichloropropane	0.644	0.654	-1.6	99	0.00
58 T	2-Chloroethyl Vinyl ether	0.306	0.319	-4.2	98	0.00
59 T	2-Hexanone	0.407	0.447	-9.8	101	0.00
60 T	Dibromochloromethane	0.429	0.456	-6.3	102	0.00
61 T	1,2-Dibromoethane	0.380	0.378	0.5	99	0.00
62 S	4-Bromofluorobenzene	0.502	0.500	0.4	98	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64 T	Tetrachloroethene	0.334	0.319	4.5	100	0.00
65 PM	Chlorobenzene	1.176	1.165	0.9	100	0.00
66 T	1,1,1,2-Tetrachloroethane	0.397	0.419	-5.5	101	0.00
67 C	Ethyl Benzene	2.053	2.065	-0.6#	99	0.00
68 T	m/p-Xylenes	0.745	0.752	-0.9	99	0.00
69 T	o-Xylene	0.720	0.733	-1.8	99	0.00
70 T	Styrene	1.233	1.280	-3.8	99	0.00
71 P	Bromoform	0.303	0.322	-6.3	100	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00
73 T	Isopropylbenzene	3.930	4.069	-3.5	99	0.00
74 T	N-amyl acetate	1.731	1.920	-10.9	101	0.00
75 P	1,1,2,2-Tetrachloroethane	1.258	1.319	-4.8	100	0.00
76 T	1,2,3-Trichloropropane	1.059	1.128	-6.5	102	0.00
77 T	Bromobenzene	0.912	0.926	-1.5	100	0.00
78 T	n-propylbenzene	4.757	4.839	-1.7	98	0.00
79 T	2-Chlorotoluene	2.869	2.927	-2.0	100	0.00
80 T	1,3,5-Trimethylbenzene	3.275	3.381	-3.2	99	0.00
81 T	trans-1,4-Dichloro-2-butene	0.367	0.405	-10.4	104	0.00
82 T	4-Chlorotoluene	3.400	3.425	-0.7	99	0.00
83 T	tert-Butylbenzene	3.334	3.462	-3.8	100	0.00
84 T	1,2,4-Trimethylbenzene	3.313	3.410	-2.9	100	0.00
85 T	sec-Butylbenzene	4.284	4.339	-1.3	99	0.00
86 T	p-Isopropyltoluene	3.572	3.630	-1.6	99	0.00
87 T	1,3-Dichlorobenzene	1.772	1.742	1.7	98	0.00
88 T	1,4-Dichlorobenzene	1.836	1.754	4.5	100	0.00
89 T	n-Butylbenzene	3.507	3.550	-1.2	101	0.00
90 T	Hexachloroethane	0.635	0.649	-2.2	101	0.00
91 T	1,2-Dichlorobenzene	1.710	1.705	0.3	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.282	0.315	-11.7	105	0.00
93 T	1,2,4-Trichlorobenzene	1.167	1.148	1.6	101	0.00
94 T	Hexachlorobutadiene	0.542	0.512	5.5	97	0.00
95 T	Naphthalene	3.699	3.939	-6.5	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046525.D
Acq On : 06 Jun 2025 14:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Quant Time: Jun 06 16:57:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	1.170	1.148	1.9	100	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\X060625\
Data File : VX046525.D
Acq On : 06 Jun 2025 14:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Quant Time: Jun 06 16:57:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	97	0.00
2 T	Dichlorodifluoromethane	50.000	49.116	1.8	103	0.00
3 P	Chloromethane	50.000	48.162	3.7	103	0.00
4 C	Vinyl Chloride	50.000	49.502	1.0#	102	0.00
5 T	Bromomethane	50.000	50.900	-1.8	95	0.00
6 T	Chloroethane	50.000	46.955	6.1	100	0.00
7 T	Trichlorofluoromethane	50.000	49.788	0.4	99	0.00
8 T	Diethyl Ether	50.000	49.819	0.4	100	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	50.000	49.561	0.9	99	0.00
10 T	Methyl Iodide	50.000	54.338	-8.7	105	0.00
11 T	Tert butyl alcohol	250.000	273.823	-9.5	108	0.00
12 CM	1,1-Dichloroethene	50.000	49.119	1.8#	100	0.00
13 T	Acrolein	250.000	247.857	0.9	102	0.00
14 T	Allyl chloride	50.000	51.566	-3.1	103	0.00
15 T	Acrylonitrile	250.000	266.347	-6.5	102	-0.01
16 T	Acetone	250.000	257.624	-3.0	103	0.00
17 T	Carbon Disulfide	50.000	50.069	-0.1	101	0.00
18 T	Methyl Acetate	50.000	57.396	-14.8	105	0.00
19 T	Methyl tert-butyl Ether	50.000	53.754	-7.5	103	-0.01
20 T	Methylene Chloride	50.000	48.013	4.0	101	0.00
21 T	trans-1,2-Dichloroethene	50.000	47.832	4.3	100	-0.01
22 T	Diisopropyl ether	50.000	52.834	-5.7	101	-0.01
23 T	Vinyl Acetate	250.000	266.053	-6.4	100	-0.01
24 P	1,1-Dichloroethane	50.000	51.227	-2.5	101	-0.01
25 T	2-Butanone	250.000	267.525	-7.0	102	-0.01
26 T	2,2-Dichloropropane	50.000	53.502	-7.0	102	-0.01
27 T	cis-1,2-Dichloroethene	50.000	49.265	1.5	100	0.00
28 T	Bromochloromethane	50.000	49.390	1.2	100	-0.01
29 T	Tetrahydrofuran	250.000	266.904	-6.8	103	0.00
30 C	Chloroform	50.000	51.004	-2.0#	101	-0.01
31 T	Cyclohexane	50.000	49.093	1.8	99	-0.01
32 T	1,1,1-Trichloroethane	50.000	51.651	-3.3	101	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.250	-0.5	100	-0.01
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	97	-0.01
35 S	Dibromofluoromethane	50.000	51.039	-2.1	99	-0.01
36 T	1,1-Dichloropropene	50.000	47.703	4.6	100	-0.02
37 T	Ethyl Acetate	50.000	58.203	-16.4	104	-0.01
38 T	Carbon Tetrachloride	50.000	49.372	1.3	100	-0.01
39 T	Methylcyclohexane	50.000	47.608	4.8	100	0.00
40 TM	Benzene	50.000	49.672	0.7	100	-0.01
41 T	Methacrylonitrile	50.000	56.282	-12.6	107	-0.01
42 TM	1,2-Dichloroethane	50.000	50.897	-1.8	99	0.00
43 T	Isopropyl Acetate	50.000	54.290	-8.6	102	-0.01
44 TM	Trichloroethene	50.000	47.764	4.5	99	0.00
45 C	1,2-Dichloropropane	50.000	51.417	-2.8#	100	0.00
46 T	Dibromomethane	50.000	50.807	-1.6	101	0.00
47 T	Bromodichloromethane	50.000	52.906	-5.8	100	0.00
48 T	Methyl methacrylate	50.000	54.806	-9.6	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046525.D
Acq On : 06 Jun 2025 14:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Quant Time: Jun 06 16:57:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	1082.971	-8.3	102	-0.01
50 S	Toluene-d8	50.000	50.025	-0.0	99	0.00
51 T	4-Methyl-2-Pentanone	250.000	271.760	-8.7	101	0.00
52 CM	Toluene	50.000	49.719	0.6#	99	0.00
53 T	t-1,3-Dichloropropene	50.000	53.526	-7.1	101	0.00
54 T	cis-1,3-Dichloropropene	50.000	51.896	-3.8	100	0.00
55 T	1,1,2-Trichloroethane	50.000	51.993	-4.0	100	0.00
56 T	Ethyl methacrylate	50.000	54.440	-8.9	101	0.00
57 T	1,3-Dichloropropane	50.000	50.718	-1.4	99	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	260.553	-4.2	98	0.00
59 T	2-Hexanone	250.000	274.165	-9.7	101	0.00
60 T	Dibromochloromethane	50.000	53.100	-6.2	102	0.00
61 T	1,2-Dibromoethane	50.000	49.689	0.6	99	0.00
62 S	4-Bromofluorobenzene	50.000	49.880	0.2	98	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	97	0.00
64 T	Tetrachloroethene	50.000	47.739	4.5	100	0.00
65 PM	Chlorobenzene	50.000	49.518	1.0	100	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	52.723	-5.4	101	0.00
67 C	Ethyl Benzene	50.000	50.288	-0.6#	99	0.00
68 T	m/p-Xylenes	100.000	100.941	-0.9	99	0.00
69 T	o-Xylene	50.000	50.882	-1.8	99	0.00
70 T	Styrene	50.000	51.899	-3.8	99	0.00
71 P	Bromoform	50.000	53.200	-6.4	100	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	95	0.00
73 T	Isopropylbenzene	50.000	51.765	-3.5	99	0.00
74 T	N-amyl acetate	50.000	55.456	-10.9	101	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	52.405	-4.8	100	0.00
76 T	1,2,3-Trichloropropane	50.000	53.262	-6.5	102	0.00
77 T	Bromobenzene	50.000	50.748	-1.5	100	0.00
78 T	n-propylbenzene	50.000	50.860	-1.7	98	0.00
79 T	2-Chlorotoluene	50.000	51.014	-2.0	100	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.612	-3.2	99	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	55.208	-10.4	104	0.00
82 T	4-Chlorotoluene	50.000	50.368	-0.7	99	0.00
83 T	tert-Butylbenzene	50.000	51.919	-3.8	100	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.464	-2.9	100	0.00
85 T	sec-Butylbenzene	50.000	50.644	-1.3	99	0.00
86 T	p-Isopropyltoluene	50.000	50.815	-1.6	99	0.00
87 T	1,3-Dichlorobenzene	50.000	49.171	1.7	98	0.00
88 T	1,4-Dichlorobenzene	50.000	47.788	4.4	100	0.00
89 T	n-Butylbenzene	50.000	50.601	-1.2	101	0.00
90 T	Hexachloroethane	50.000	51.141	-2.3	101	0.00
91 T	1,2-Dichlorobenzene	50.000	49.847	0.3	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	55.886	-11.8	105	0.00
93 T	1,2,4-Trichlorobenzene	50.000	49.224	1.6	101	0.00
94 T	Hexachlorobutadiene	50.000	47.222	5.6	97	0.00
95 T	Naphthalene	50.000	53.245	-6.5	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046525.D
Acq On : 06 Jun 2025 14:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Quant Time: Jun 06 16:57:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	49.082	1.8	100	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2230 SAS No.: Q2230 SDG No.: Q2230

Instrument ID: MSVOA_X Calibration Date/Time: 06/10/2025 09:07

Lab File ID: VX046586.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:42 12:57

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Benzene	1.479	1.615		9.19	20
Toluene	0.908	0.992		9.25	20
Ethyl Benzene	2.053	2.179		6.14	20
m/p-Xylenes	0.745	0.802		7.65	20
o-Xylene	0.720	0.775		7.64	20
Isopropylbenzene	3.930	4.253		8.22	20
n-propylbenzene	4.757	5.071		6.6	20
1,3,5-Trimethylbenzene	3.275	3.526		7.66	20
tert-Butylbenzene	3.334	3.617		8.49	20
1,2,4-Trimethylbenzene	3.313	3.499		5.61	20
sec-Butylbenzene	4.284	4.548		6.16	20
p-Isopropyltoluene	3.572	3.774		5.66	20
n-Butylbenzene	3.507	3.673		4.73	20
1,2-Dichloroethane-d4	0.890	0.757		-14.94	20
Dibromofluoromethane	0.368	0.360		-2.17	20
Toluene-d8	1.212	1.152		-4.95	20
4-Bromofluorobenzene	0.502	0.468		-6.77	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\VX061025\
 Data File : VX046586.D
 Acq On : 10 Jun 2025 09:07
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations APPROVED

Reviewed By : John Carlone 06/11/2025
 Supervised By : Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 01:40:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.556	168	90758	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	150623	50.000	ug/l	-0.01
63) Chlorobenzene-d5	10.055	117	134767	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	66941	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	68670	42.529	ug/l	-0.01
Spiked Amount 50.000	Range 74 - 125		Recovery =	85.060%		
35) Dibromofluoromethane	5.385	113	54188	48.920	ug/l	-0.02
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.840%		
50) Toluene-d8	8.647	98	173470	47.502	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.000%		
62) 4-Bromofluorobenzene	11.079	95	70476	46.644	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	93.280%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.185	85	64016	50.806	ug/l	100
3) Chloromethane	1.307	50	56444	49.215	ug/l	99
4) Vinyl Chloride	1.386	62	58114	50.831	ug/l	98
5) Bromomethane	1.618	94	32498	46.823	ug/l	93
6) Chloroethane	1.703	64	32178	43.380	ug/l	97
7) Trichlorofluoromethane	1.904	101	90554	47.872	ug/l	96
8) Diethyl Ether	2.142	74	31717	47.456	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.343	101	60548	50.805	ug/l	94
10) Methyl Iodide	2.465	142	73653	57.012	ug/l	97
11) Tert butyl alcohol	2.959	59	31425	175.393	ug/l	100
12) 1,1-Dichloroethene	2.331	96	54724	50.787	ug/l	87
13) Acrolein	2.245	56	46336	218.171	ug/l	99
14) Allyl chloride	2.678	41	99768	47.145	ug/l	92
15) Acrylonitrile	3.068	53	154316	227.796	ug/l	99
16) Acetone	2.386	43	125573	198.999	ug/l	94
17) Carbon Disulfide	2.526	76	113942	49.803	ug/l	99
18) Methyl Acetate	2.709	43	88227	45.873	ug/l	96
19) Methyl tert-butyl Ether	3.123	73	190642	50.563	ug/l	98
20) Methylene Chloride	2.800	84	63269	48.842	ug/l	92
21) trans-1,2-Dichloroethene	3.105	96	56466	49.518	ug/l	94
22) Diisopropyl ether	3.763	45	218014	52.255	ug/l #	73
23) Vinyl Acetate	3.727	43	792157	245.925	ug/l	98
24) 1,1-Dichloroethane	3.623	63	116355	50.040	ug/l	99
25) 2-Butanone	4.556	43	191877	213.467	ug/l	99
26) 2,2-Dichloropropane	4.483	77	96821	56.089	ug/l	99
27) cis-1,2-Dichloroethene	4.495	96	73894	52.640	ug/l	96
28) Bromochloromethane	4.904	49	54238	48.905	ug/l	99
29) Tetrahydrofuran	5.007	42	122206	215.281	ug/l	99
30) Chloroform	5.099	83	130421	53.531	ug/l	96
31) Cyclohexane	5.477	56	95665	50.962	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	111065	53.292	ug/l	98
36) 1,1-Dichloropropene	5.696	75	80709	51.010	ug/l	98
37) Ethyl Acetate	4.721	43	78957	51.130	ug/l	99
38) Carbon Tetrachloride	5.684	117	95156	53.694	ug/l	95
39) Methylcyclohexane	7.379	83	94883	50.806	ug/l	99
40) Benzene	6.037	78	243205	54.601	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
 Data File : VX046586.D
 Acq On : 10 Jun 2025 09:07
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 01:40:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M

Quant Title : SW846 8260

QLast Update : Fri Jun 06 16:56:12 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	49327	51.438	ug/l	95
42) 1,2-Dichloroethane	6.086	62	98959	53.402	ug/l	99
43) Isopropyl Acetate	6.342	43	131206	48.737	ug/l	99
44) Trichloroethene	7.129	130	59456	52.534	ug/l	99
45) 1,2-Dichloropropane	7.427	63	63071	54.858	ug/l	99
46) Dibromomethane	7.580	93	45581	52.699	ug/l	96
47) Bromodichloromethane	7.824	83	101554	57.103	ug/l	97
48) Methyl methacrylate	7.690	41	68324	49.326	ug/l	95
49) 1,4-Dioxane	7.653	88	17651	952.914	ug/l	98
51) 4-Methyl-2-Pentanone	8.568	43	409850	239.572	ug/l	99
52) Toluene	8.714	92	149428	54.605	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	91050	57.101	ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	100606	56.746	ug/l	92
55) 1,1,2-Trichloroethane	9.147	97	60612	55.174	ug/l	97
56) Ethyl methacrylate	9.116	69	90648	53.621	ug/l	94
57) 1,3-Dichloropropane	9.305	76	104709	53.935	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	226143	245.588	ug/l	99
59) 2-Hexanone	9.427	43	281334	229.299	ug/l	98
60) Dibromochloromethane	9.519	129	73121	56.586	ug/l	99
61) 1,2-Dibromoethane	9.604	107	59442	51.925	ug/l	96
64) Tetrachloroethene	9.275	164	45245	50.206	ug/l	96
65) Chlorobenzene	10.079	112	166316	52.473	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	60360	56.356	ug/l	100
67) Ethyl Benzene	10.189	91	293712	53.081	ug/l	99
68) m/p-Xylenes	10.299	106	216146	107.686	ug/l	99
69) o-Xylene	10.640	106	104495	53.823	ug/l	100
70) Styrene	10.652	104	186521	56.124	ug/l	97
71) Bromoform	10.799	173	45425	55.623	ug/l #	97
73) Isopropylbenzene	10.957	105	284717	54.106	ug/l	100
74) N-amyl acetate	10.841	43	114046	49.214	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	85869	50.980	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	73742m	52.008	ug/l	
77) Bromobenzene	11.195	156	67715	55.440	ug/l	94
78) n-propylbenzene	11.299	91	339470	53.299	ug/l	99
79) 2-Chlorotoluene	11.360	91	202364	52.688	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	236032	53.827	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	25693	52.271	ug/l	90
82) 4-Chlorotoluene	11.451	91	239181	52.538	ug/l	98
83) tert-Butylbenzene	11.713	119	242094	54.234	ug/l	95
84) 1,2,4-Trimethylbenzene	11.750	105	234197	52.794	ug/l	98
85) sec-Butylbenzene	11.890	105	304462	53.081	ug/l	100
86) p-Isopropyltoluene	12.006	119	252631	52.834	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	124600	52.534	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	123785	50.367	ug/l	99
89) n-Butylbenzene	12.329	91	245852	52.356	ug/l	99
90) Hexachloroethane	12.536	117	45495	53.532	ug/l	96
91) 1,2-Dichlorobenzene	12.329	146	121670	53.144	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	17650	46.795	ug/l	94
93) 1,2,4-Trichlorobenzene	13.585	180	81781	52.365	ug/l	98
94) Hexachlorobutadiene	13.725	225	35940	49.518	ug/l	96
95) Naphthalene	13.774	128	251036	50.687	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	80018	51.096	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046586.D
Acq On : 10 Jun 2025 09:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Jun 11 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

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

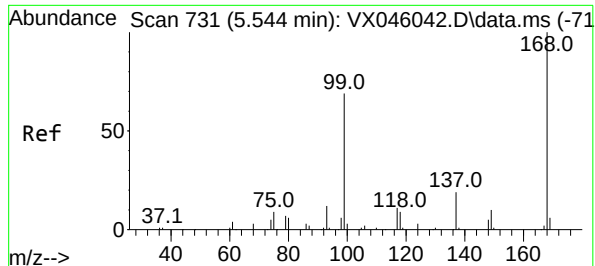
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025





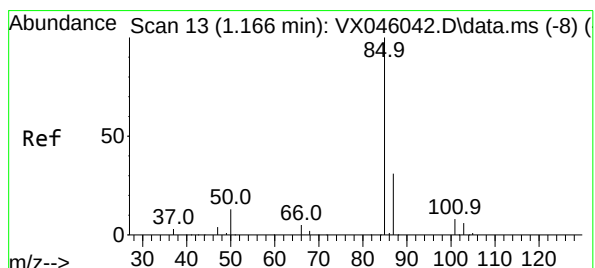
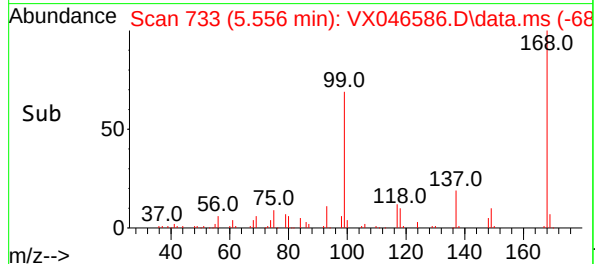
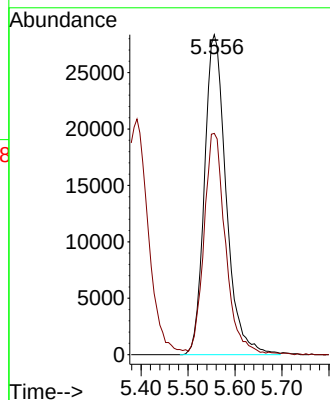
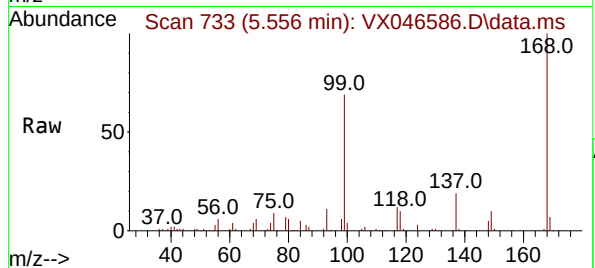
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 90758
Ion Ratio Lower Upper
168 100
99 68.8 54.9 82.3

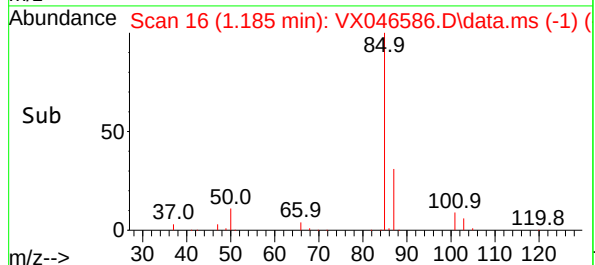
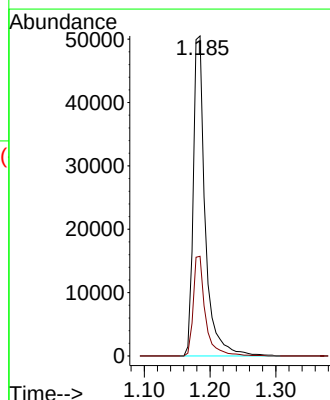
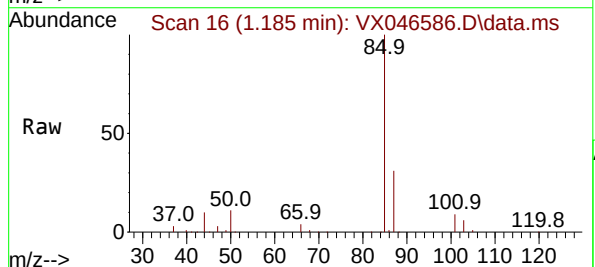
Manual Integrations
APPROVED

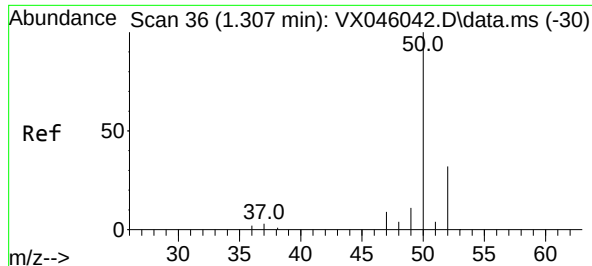
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#2
Dichlorodifluoromethane
Concen: 50.806 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

Tgt Ion: 85 Resp: 64016
Ion Ratio Lower Upper
85 100
87 31.1 15.7 47.1





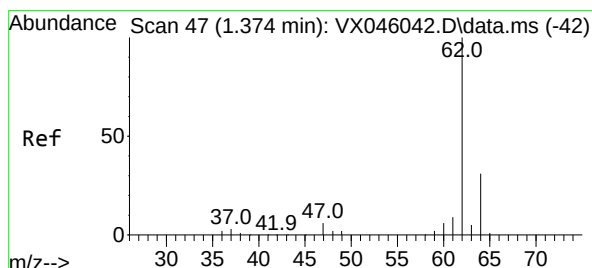
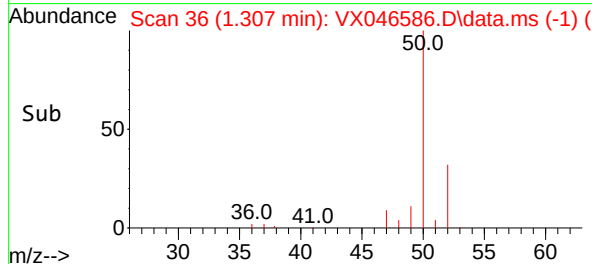
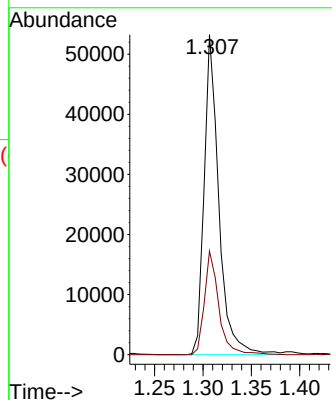
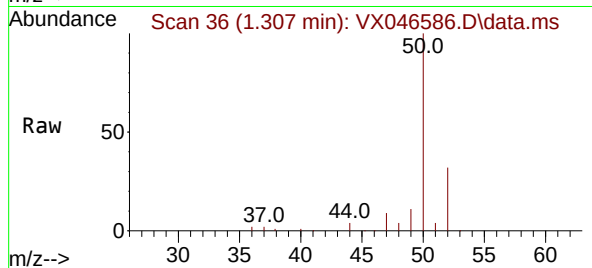
#3
Chloromethane
Concen: 49.215 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 5644
Ion Ratio Lower Upper
50 100
52 32.4 25.4 38.2

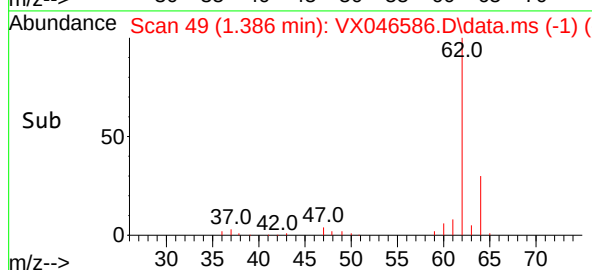
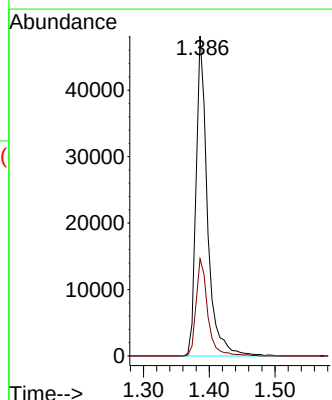
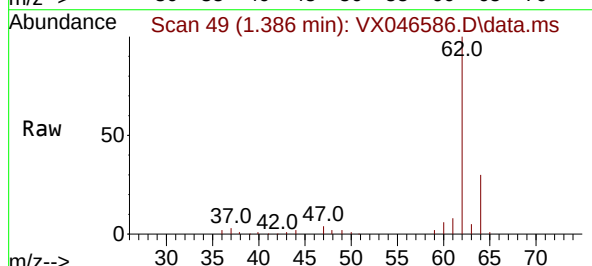
Manual Integrations
APPROVED

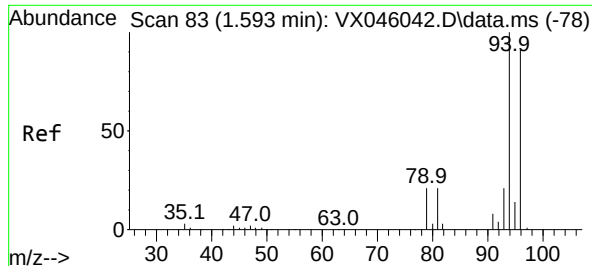
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#4
Vinyl Chloride
Concen: 50.831 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

Tgt Ion: 62 Resp: 58114
Ion Ratio Lower Upper
62 100
64 30.4 25.2 37.8





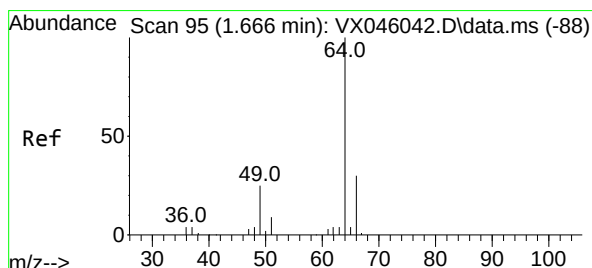
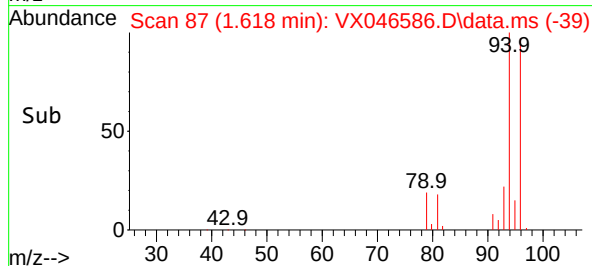
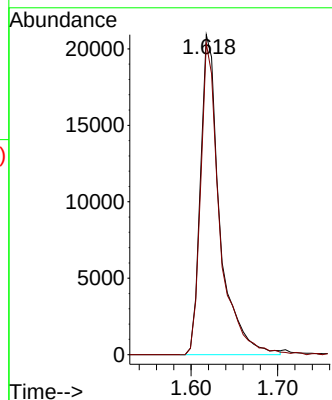
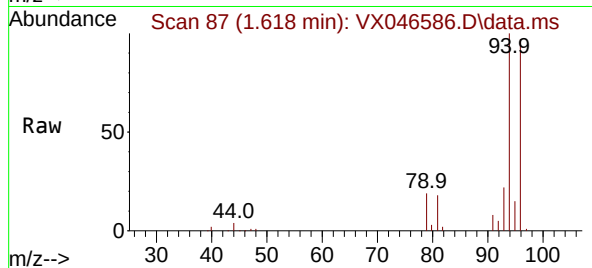
#5
Bromomethane
Concen: 46.823 ug/l
RT: 1.618 min Scan# 81
Delta R.T. -0.006 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 32498
Ion Ratio Lower Upper
94 100
96 97.3 72.8 109.2

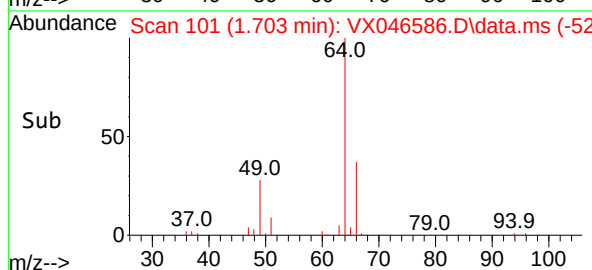
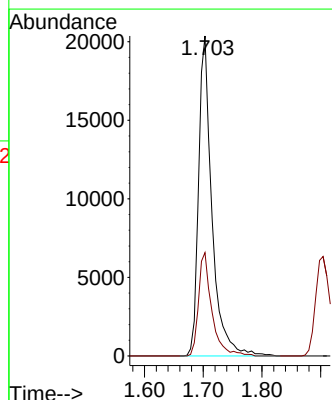
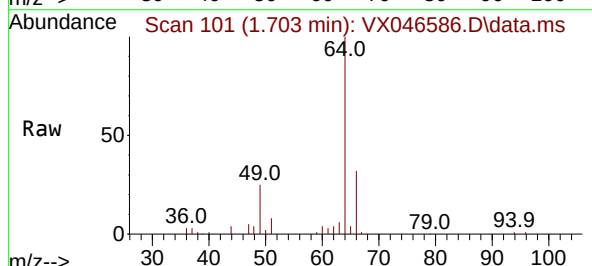
Manual Integrations
APPROVED

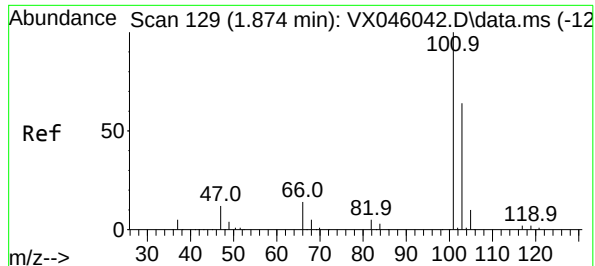
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#6
Chloroethane
Concen: 43.380 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

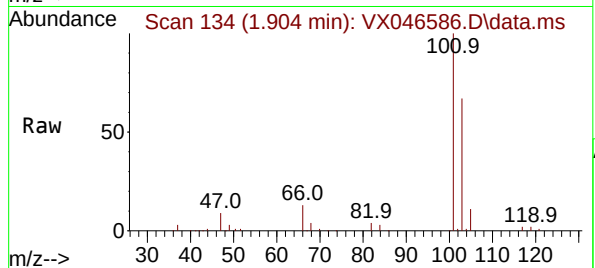
Tgt Ion: 64 Resp: 32178
Ion Ratio Lower Upper
64 100
66 32.3 24.3 36.5





#7
 Trichlorofluoromethane
 Concen: 47.872 ug/l
 RT: 1.904 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX046586.D
 Acq: 10 Jun 2025 09:07

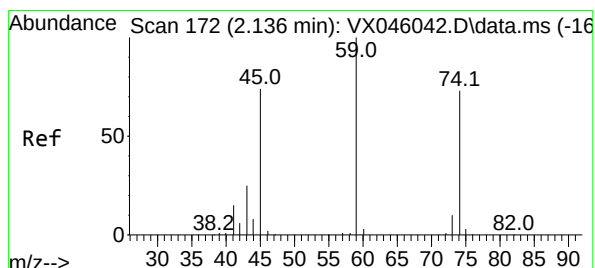
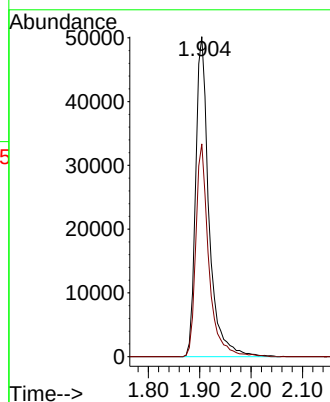
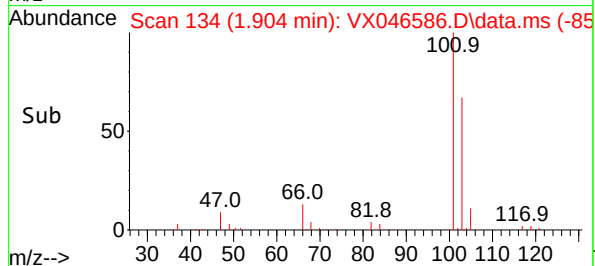
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDC050



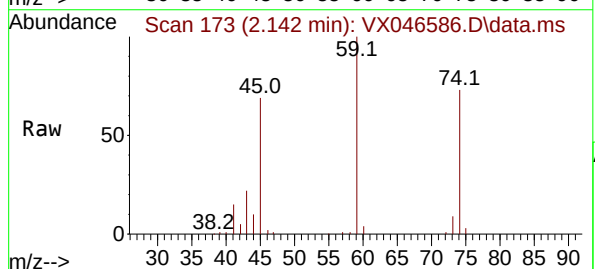
Tgt Ion:101 Resp: 90554
 Ion Ratio Lower Upper
 101 100
 103 66.5 51.0 76.4

Manual Integrations
 APPROVED

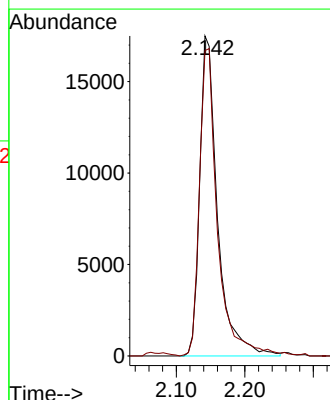
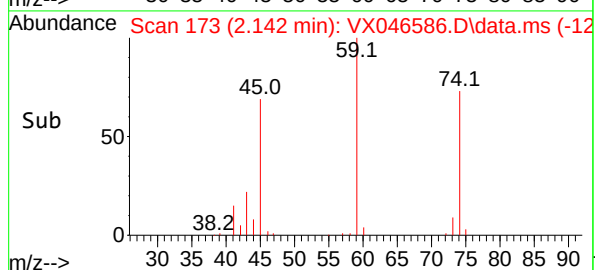
Reviewed By :John Carlone 06/11/2025
 Supervised By :Mahesh Dadoda 06/11/2025

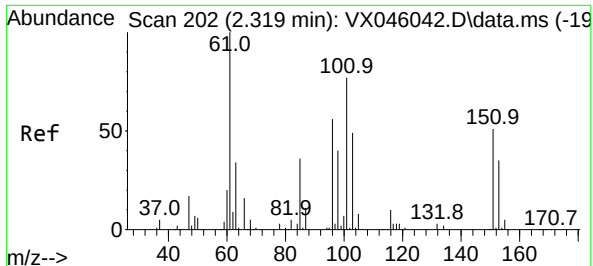


#8
 Diethyl Ether
 Concen: 47.456 ug/l
 RT: 2.142 min Scan# 173
 Delta R.T. -0.012 min
 Lab File: VX046586.D
 Acq: 10 Jun 2025 09:07



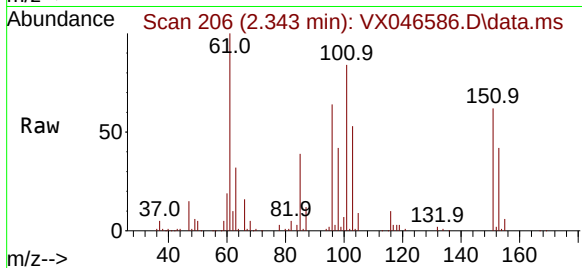
Tgt Ion: 74 Resp: 31717
 Ion Ratio Lower Upper
 74 100
 45 97.4 54.9 164.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.805 ug/l
RT: 2.343 min Scan# 206
Delta R.T. -0.006 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

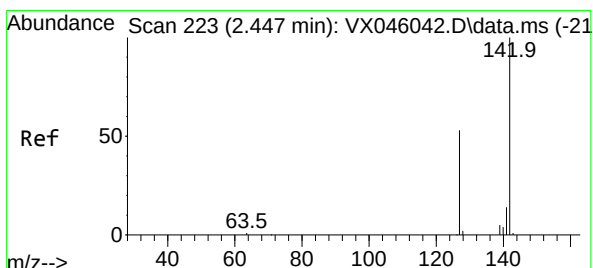
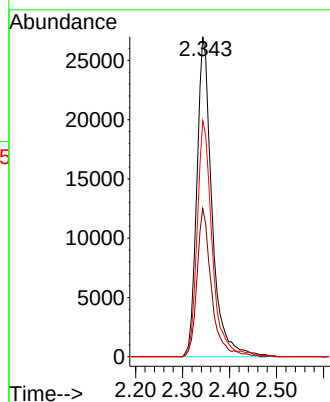
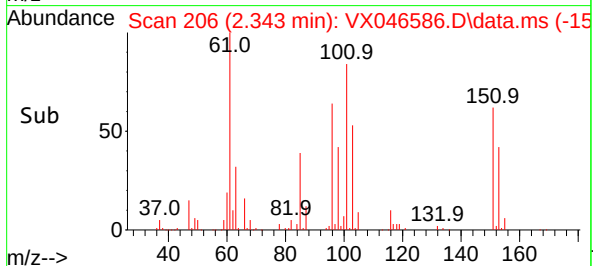
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



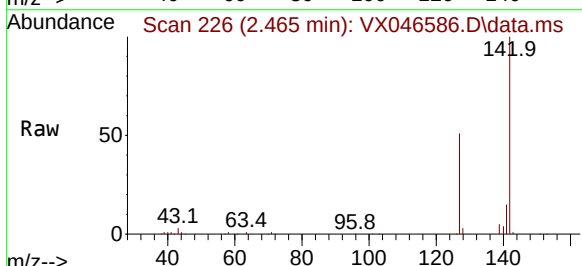
Tgt Ion:101 Resp: 6054
Ion Ratio Lower Upper
101 100
85 44.3 38.6 58.0
151 73.4 55.2 82.8

Manual Integrations
APPROVED

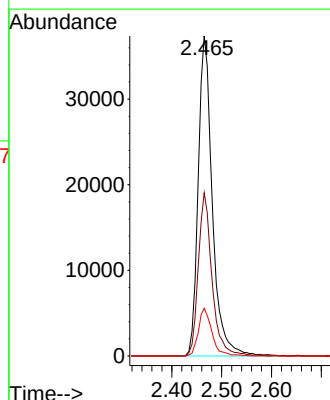
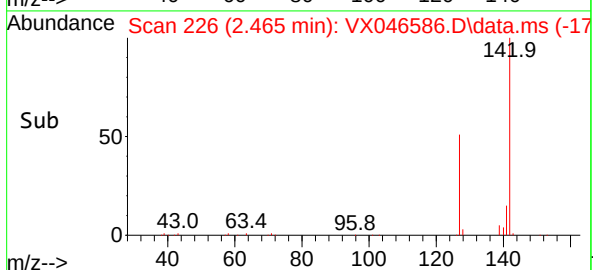
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

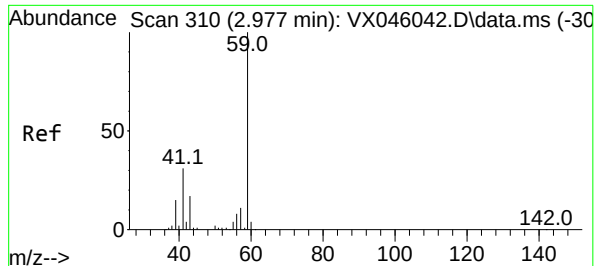


#10
Methyl Iodide
Concen: 57.012 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07



Tgt Ion:142 Resp: 73653
Ion Ratio Lower Upper
142 100
127 49.5 41.7 62.5
141 14.3 11.5 17.3





#11

Tert butyl alcohol

Concen: 175.393 ug/l

RT: 2.959 min Scan# 307

Delta R.T. -0.012 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Tgt Ion: 59 Resp: 3142

Ion Ratio Lower Upper

59 100

57 10.9 8.6 12.8

Instrument :

MSVOA_X

ClientSampleId :

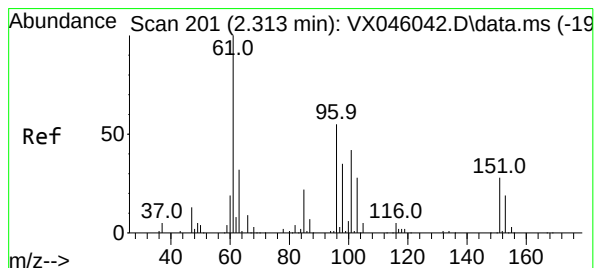
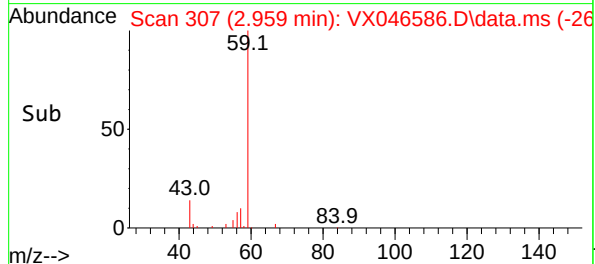
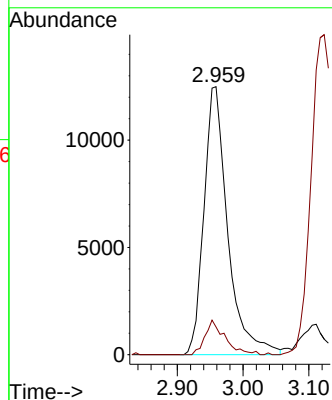
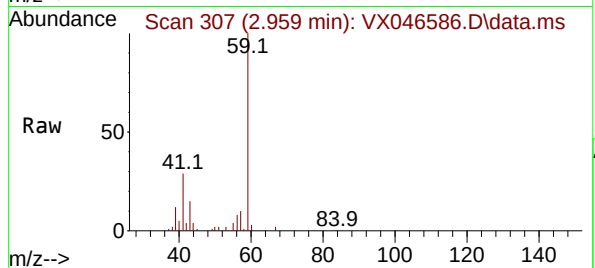
VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#12

1,1-Dichloroethene

Concen: 50.787 ug/l

RT: 2.331 min Scan# 204

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

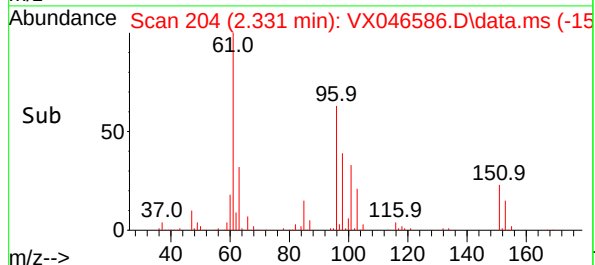
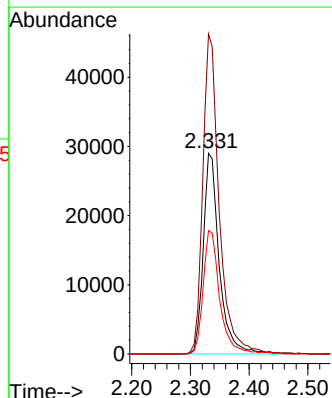
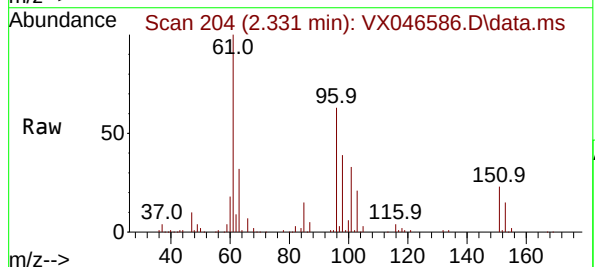
Tgt Ion: 96 Resp: 54724

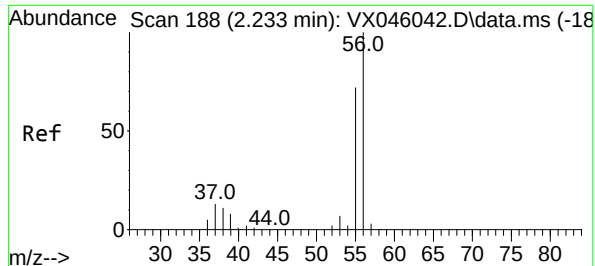
Ion Ratio Lower Upper

96 100

61 159.5 146.2 219.2

98 61.5 51.0 76.6





#13

Acrolein

Concen: 218.171 ug/l

RT: 2.245 min Scan# 14

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 46330

Ion Ratio Lower Upper

56 100

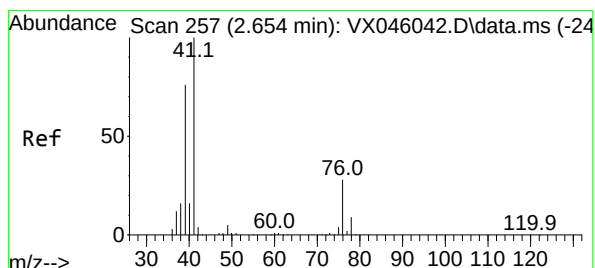
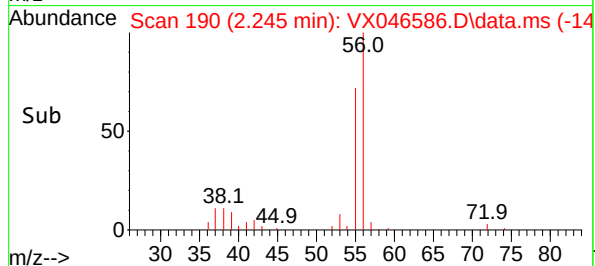
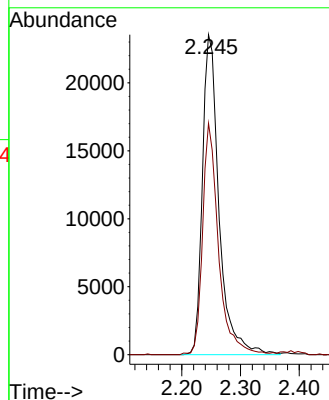
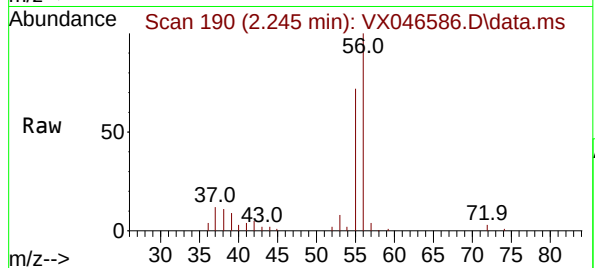
55 69.2 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#14

Allyl chloride

Concen: 47.145 ug/l

RT: 2.678 min Scan# 261

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

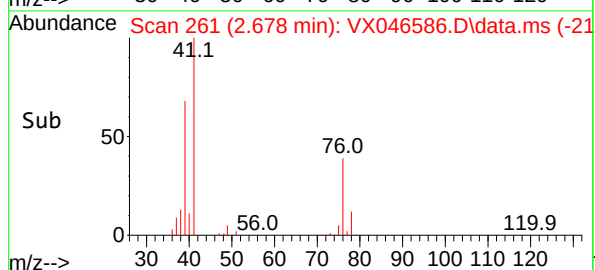
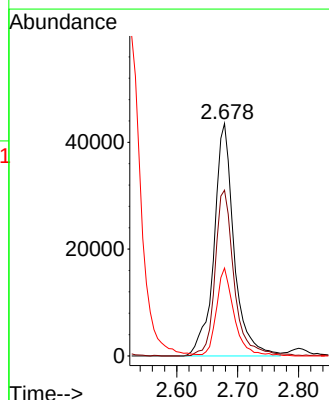
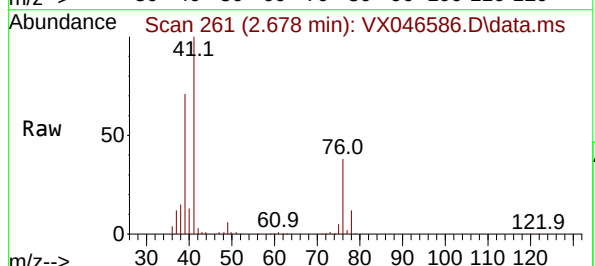
Tgt Ion: 41 Resp: 99768

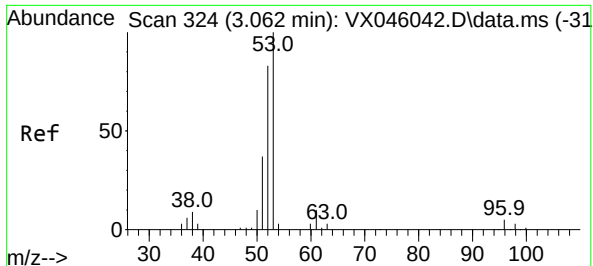
Ion Ratio Lower Upper

41 100

39 67.9 60.6 90.8

76 33.3 24.9 37.3





#15

Acrylonitrile

Concen: 227.796 ug/l

RT: 3.068 min Scan# 31

Delta R.T. -0.013 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 53 Resp: 154310

Ion Ratio Lower Upper

53 100

52 82.2 65.3 97.9

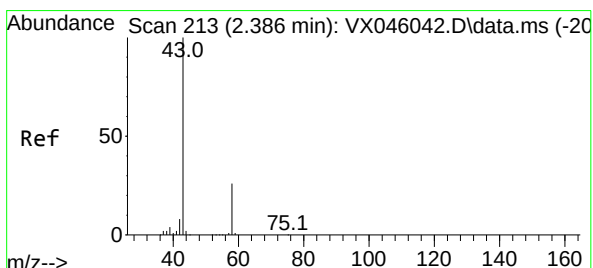
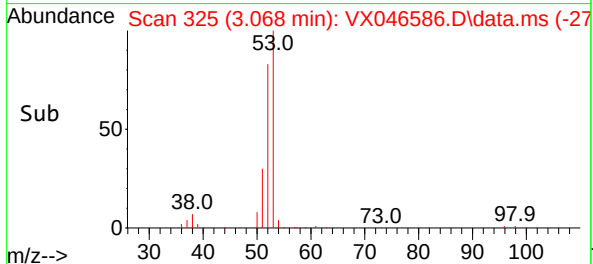
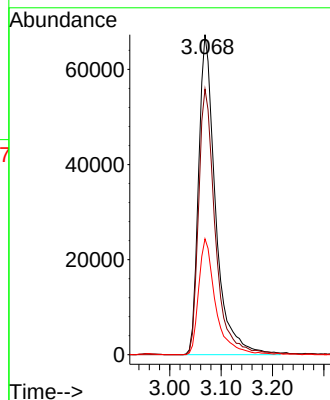
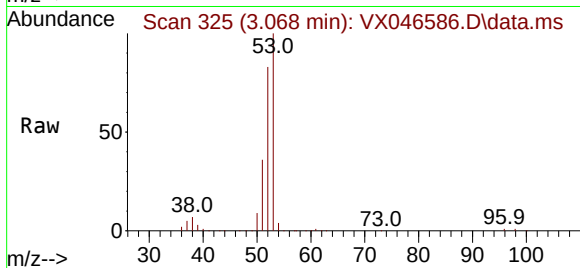
51 36.3 29.8 44.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#16

Acetone

Concen: 198.999 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX046586.D

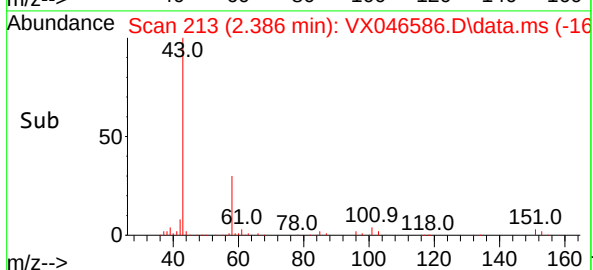
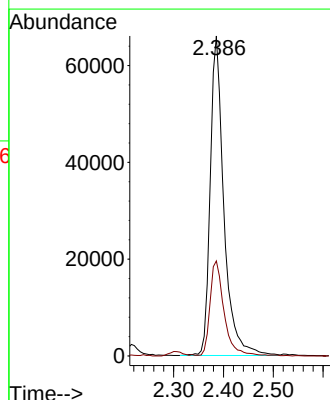
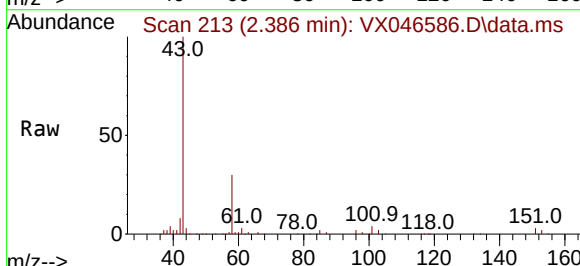
Acq: 10 Jun 2025 09:07

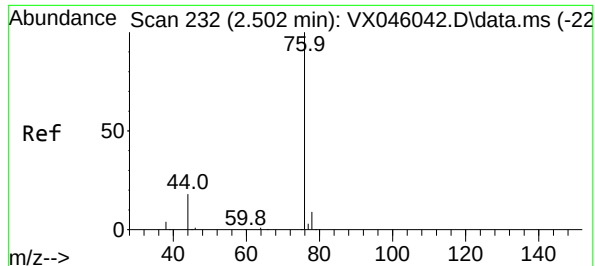
Tgt Ion: 43 Resp: 125573

Ion Ratio Lower Upper

43 100

58 29.6 21.2 31.8





#17

Carbon Disulfide

Concen: 49.803 ug/l

RT: 2.526 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 11394

Ion Ratio Lower Upper

76 100

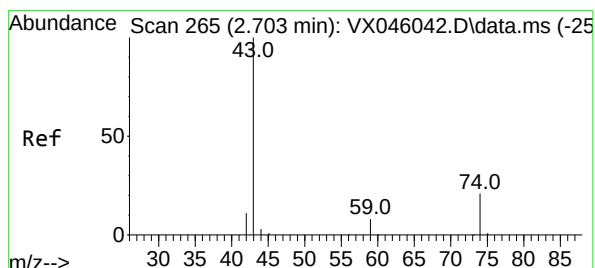
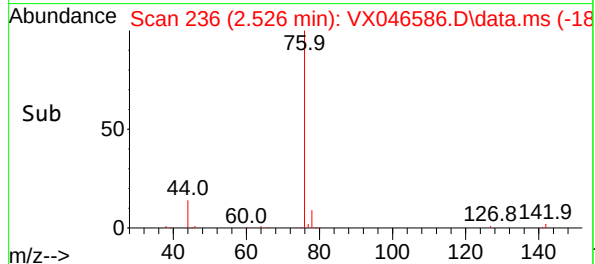
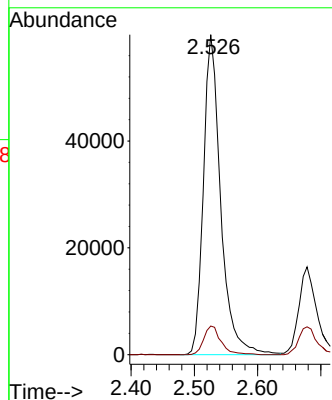
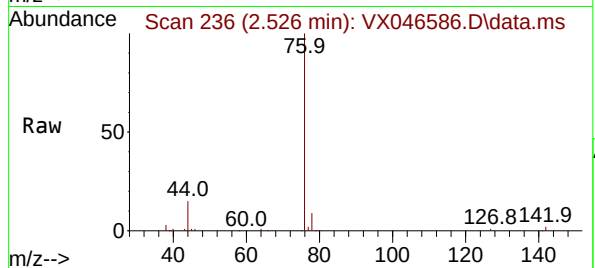
78 9.0 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#18

Methyl Acetate

Concen: 45.873 ug/l

RT: 2.709 min Scan# 266

Delta R.T. -0.012 min

Lab File: VX046586.D

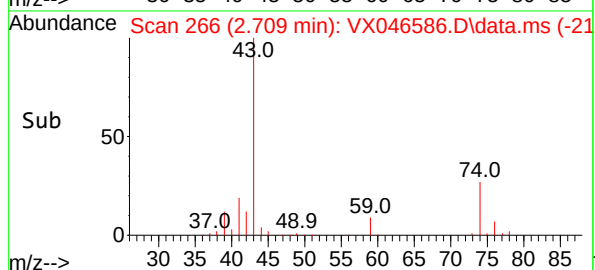
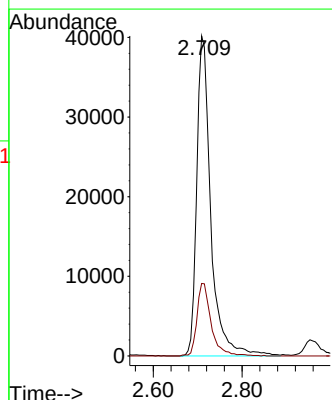
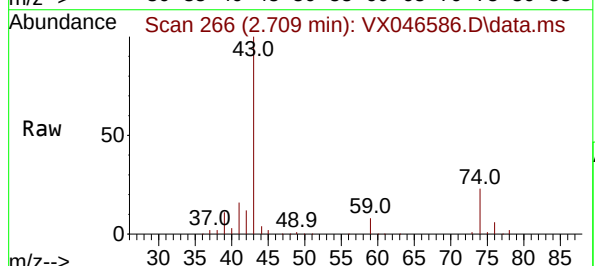
Acq: 10 Jun 2025 09:07

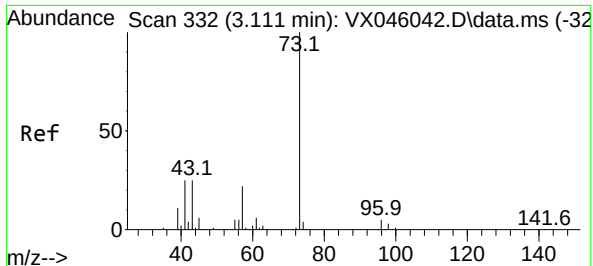
Tgt Ion: 43 Resp: 88227

Ion Ratio Lower Upper

43 100

74 22.9 16.7 25.1





#19

Methyl tert-butyl Ether

Concen: 50.563 ug/l

RT: 3.123 min Scan# 31

Delta R.T. -0.012 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 19064

Ion Ratio Lower Upper

73 100

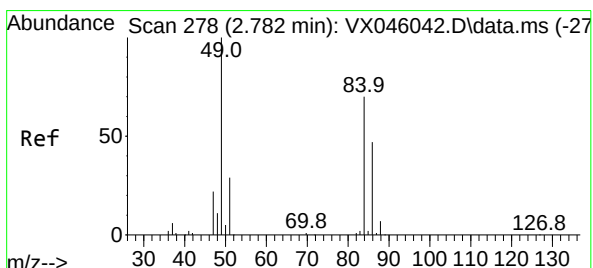
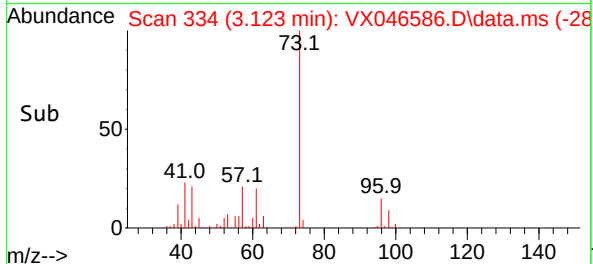
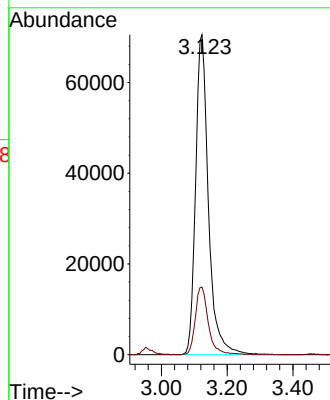
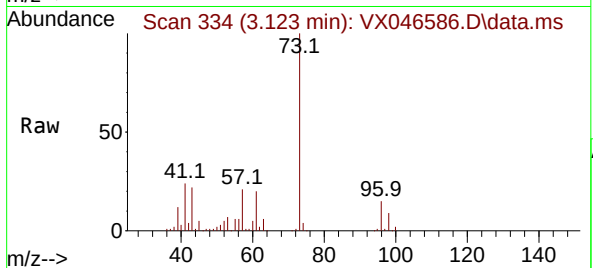
57 21.1 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#20

Methylene Chloride

Concen: 48.842 ug/l

RT: 2.800 min Scan# 281

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Tgt Ion: 84 Resp: 63269

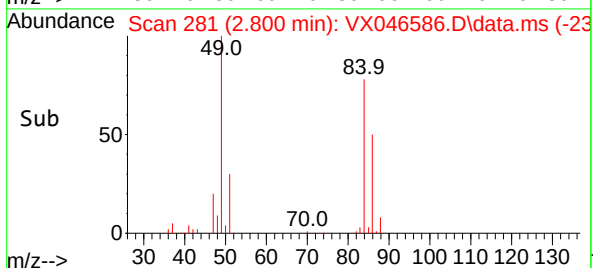
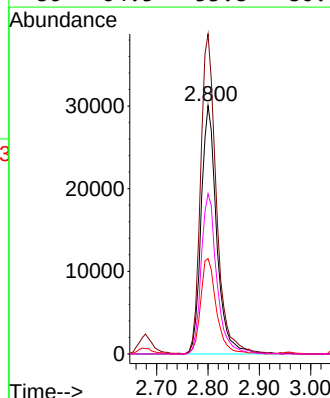
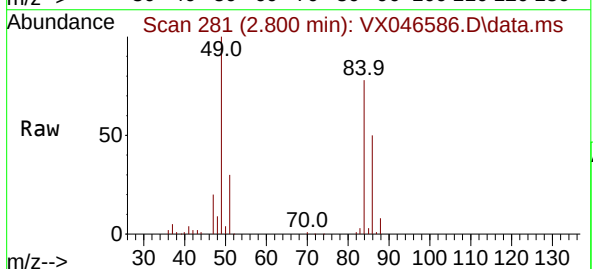
Ion Ratio Lower Upper

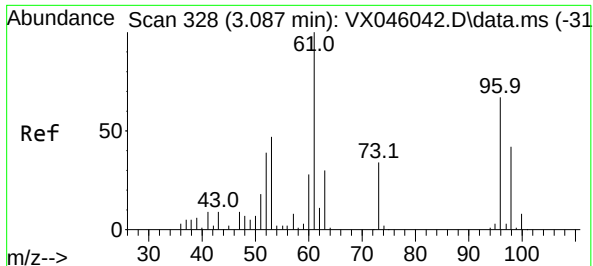
84 100

49 128.5 113.9 170.9

51 38.4 33.5 50.3

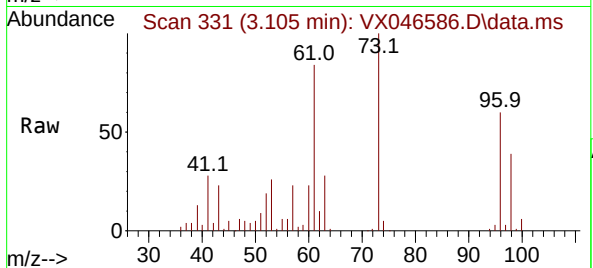
86 64.5 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 49.518 ug/l
RT: 3.105 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

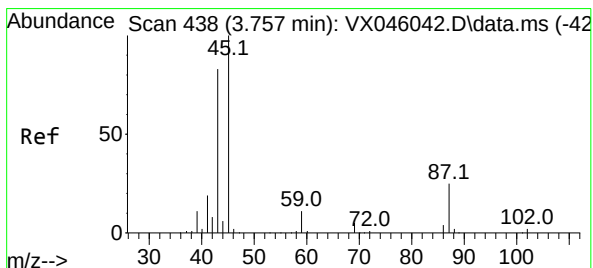
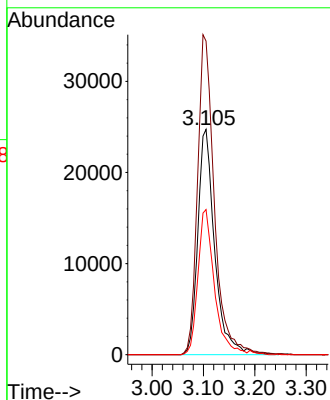
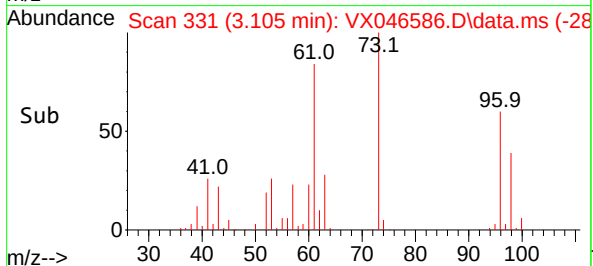
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



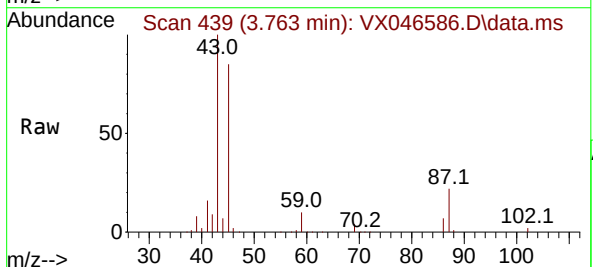
Tgt Ion: 96 Resp: 5646
Ion Ratio Lower Upper
96 100
61 139.2 119.5 179.3
98 64.4 50.0 75.0

Manual Integrations
APPROVED

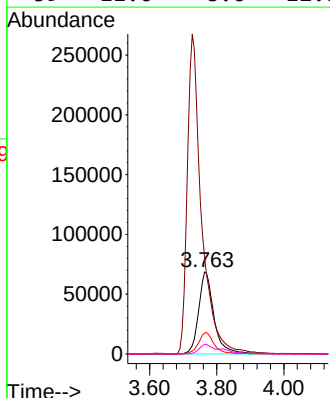
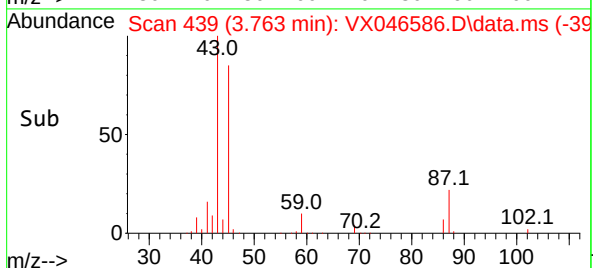
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

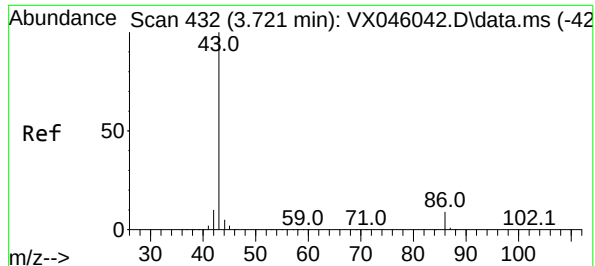


#22
Diisopropyl ether
Concen: 52.255 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.019 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07



Tgt Ion: 45 Resp: 218014
Ion Ratio Lower Upper
45 100
43 117.1 66.6 100.0#
87 25.5 19.8 29.6
59 11.6 8.6 12.8





#23

Vinyl Acetate

Concen: 245.925 ug/l

RT: 3.727 min Scan# 41

Delta R.T. -0.012 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDC050

Tgt Ion: 43 Resp: 79215

Ion Ratio Lower Upper

43 100

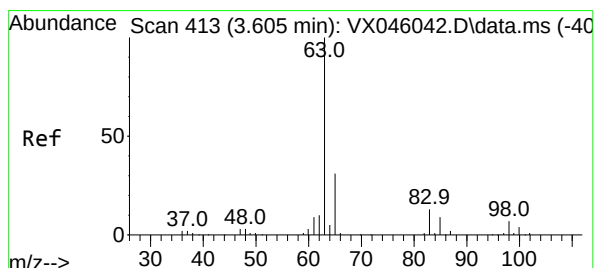
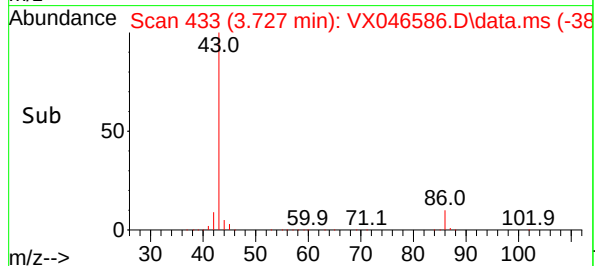
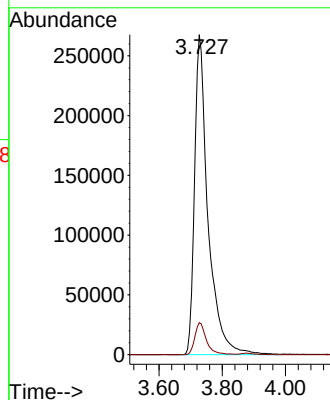
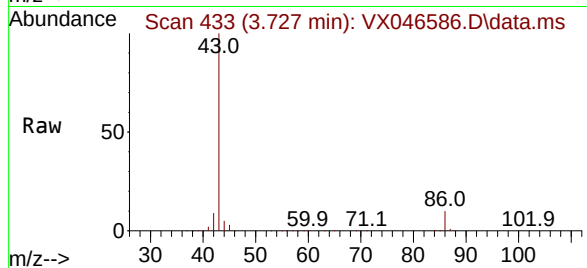
86 10.0 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#24

1,1-Dichloroethane

Concen: 50.040 ug/l

RT: 3.623 min Scan# 416

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

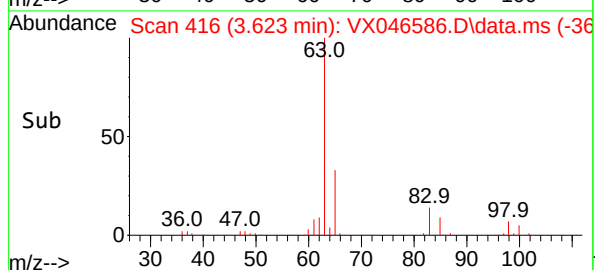
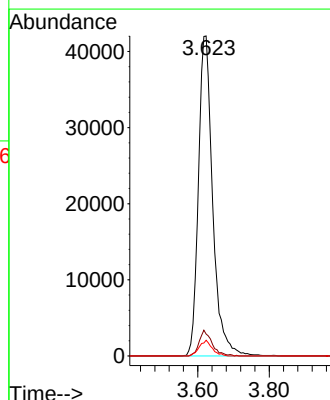
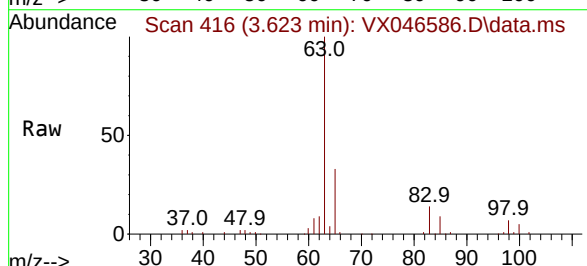
Tgt Ion: 63 Resp: 116355

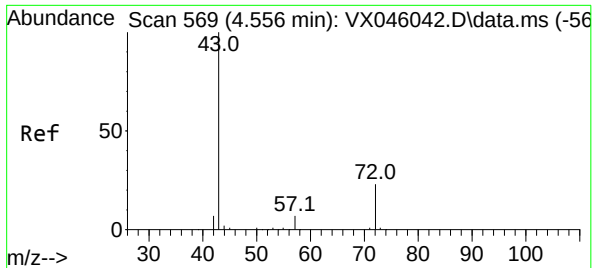
Ion Ratio Lower Upper

63 100

98 6.8 3.6 10.8

100 4.9 2.1 6.3





#25

2-Butanone

Concen: 213.467 ug/l

RT: 4.556 min Scan# 50

Delta R.T. -0.018 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 19187

Ion Ratio Lower Upper

43 100

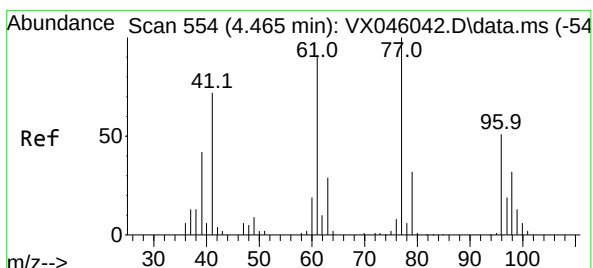
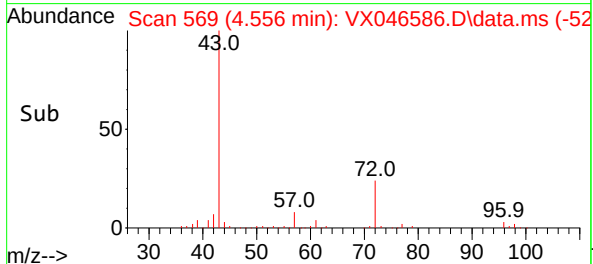
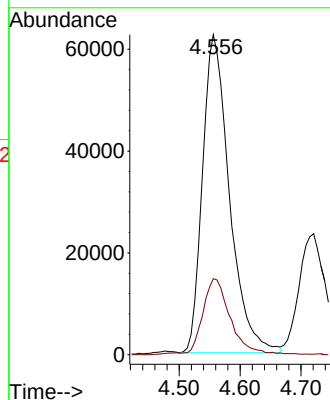
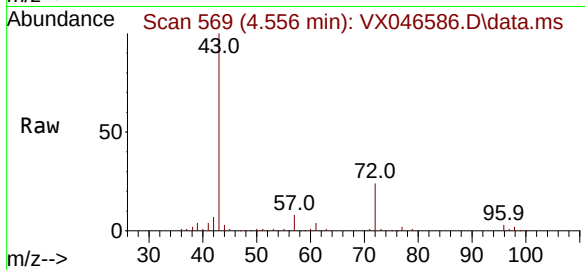
72 23.4 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#26

2,2-Dichloropropane

Concen: 56.089 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.012 min

Lab File: VX046586.D

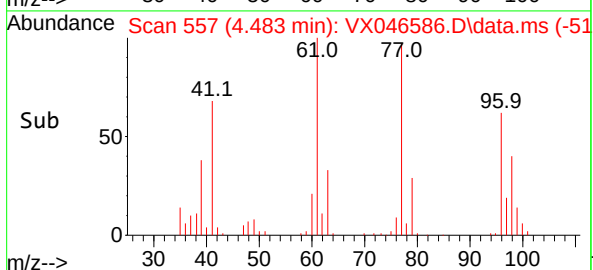
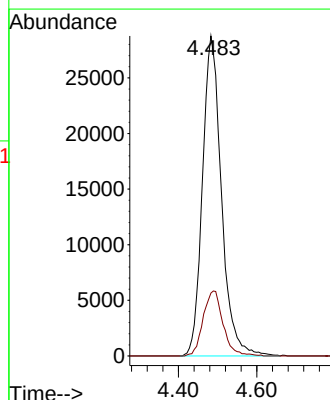
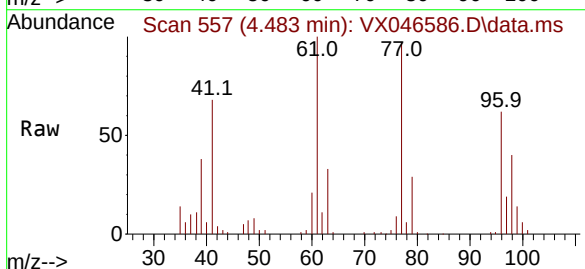
Acq: 10 Jun 2025 09:07

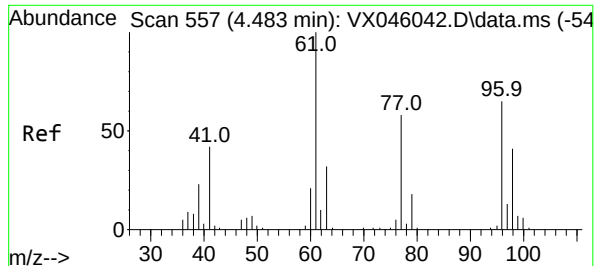
Tgt Ion: 77 Resp: 96821

Ion Ratio Lower Upper

77 100

97 21.3 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 52.640 ug/l

RT: 4.495 min Scan# 51

Delta R.T. -0.012 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

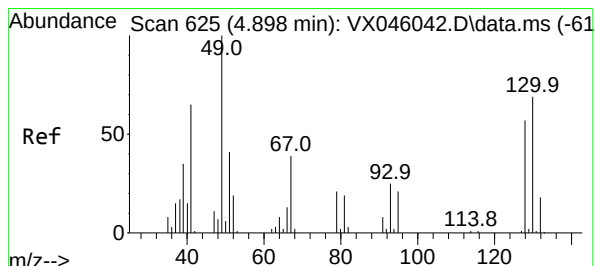
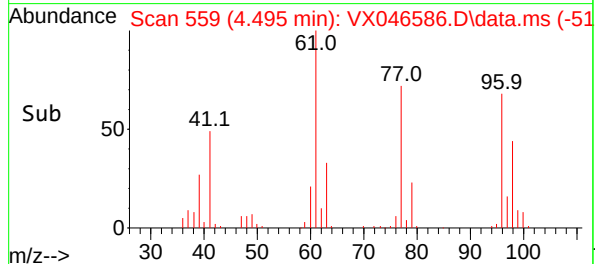
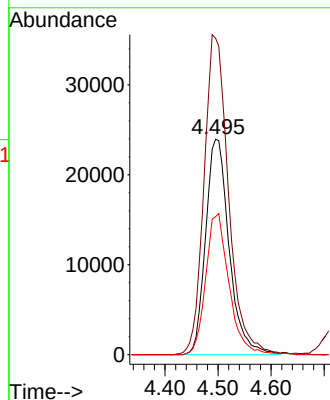
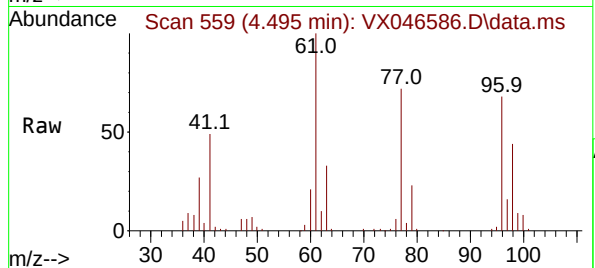
VSTDCCC050

Tgt Ion:	96	Resp:	73894
Ion	Ratio	Lower	Upper
96	100		
61	154.7	0.0	322.8
98	64.9	0.0	129.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#28

Bromochloromethane

Concen: 48.905 ug/l

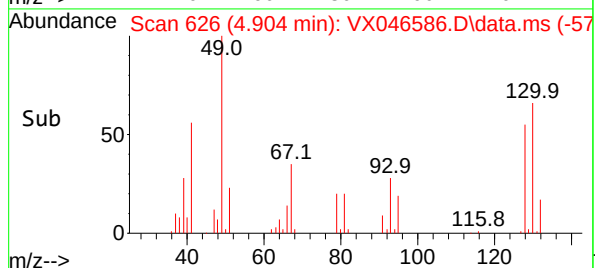
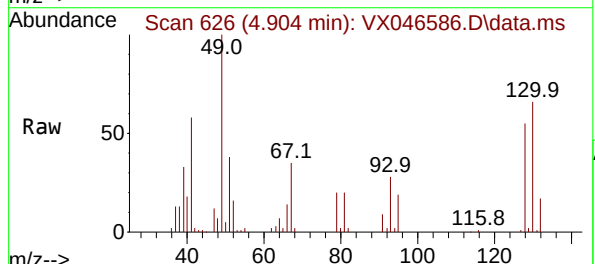
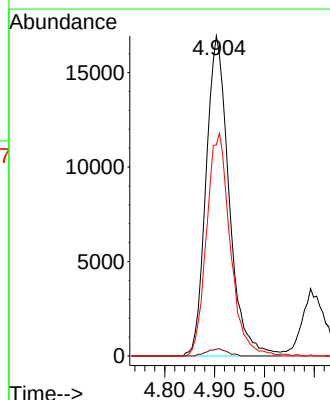
RT: 4.904 min Scan# 626

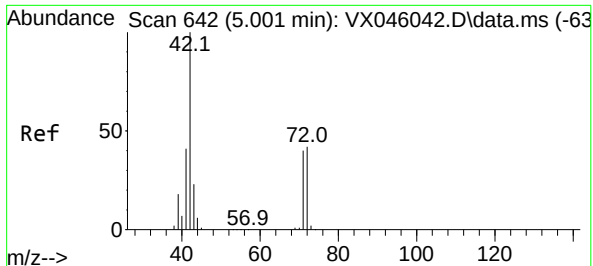
Delta R.T. -0.012 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Tgt Ion:	49	Resp:	54238
Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	71.4	56.2	84.2





#29

Tetrahydrofuran

Concen: 215.281 ug/l

RT: 5.007 min Scan# 642

Delta R.T. -0.012 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 122200

Ion Ratio Lower Upper

42 100

72 42.6 33.7 50.5

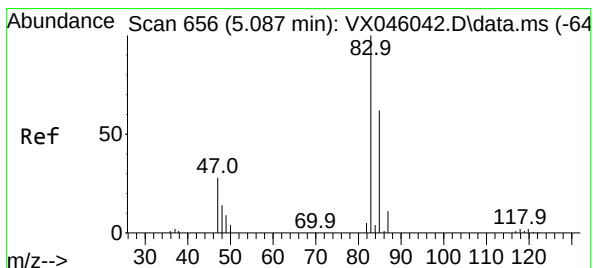
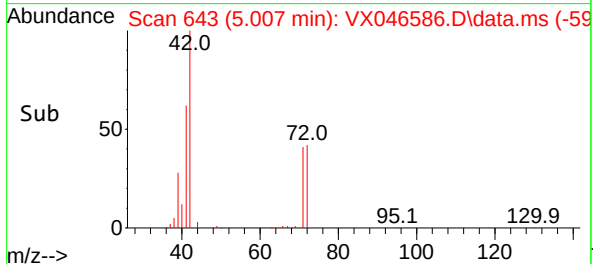
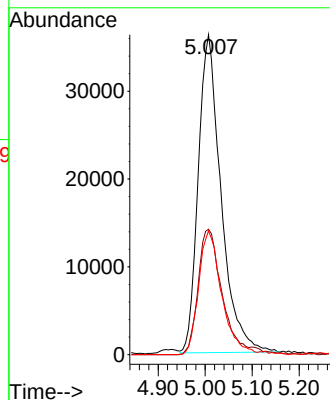
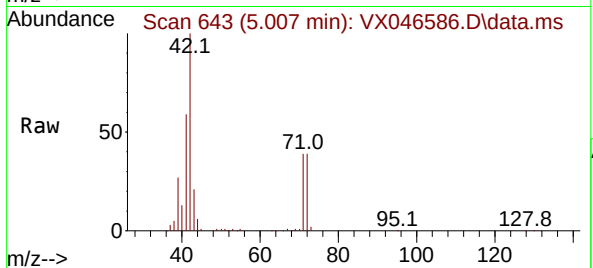
71 39.1 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#30

Chloroform

Concen: 53.531 ug/l

RT: 5.099 min Scan# 658

Delta R.T. -0.012 min

Lab File: VX046586.D

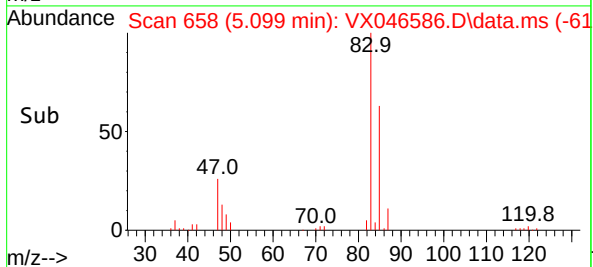
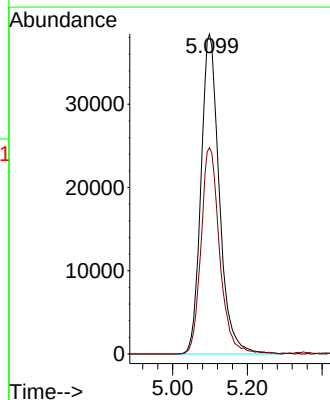
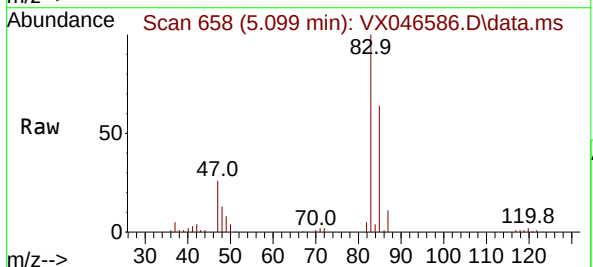
Acq: 10 Jun 2025 09:07

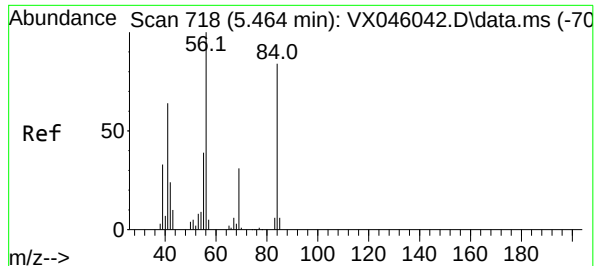
Tgt Ion: 83 Resp: 130421

Ion Ratio Lower Upper

83 100

85 64.3 49.3 73.9





#31

Cyclohexane

Concen: 50.962 ug/l

RT: 5.477 min Scan# 718

Delta R.T. -0.012 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 9566

Ion Ratio Lower Upper

56 100

69 30.3 24.4 36.6

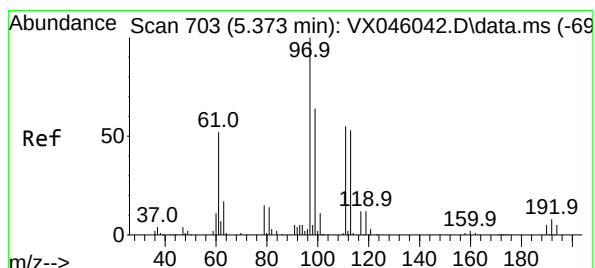
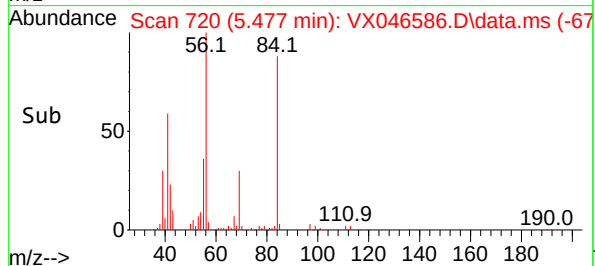
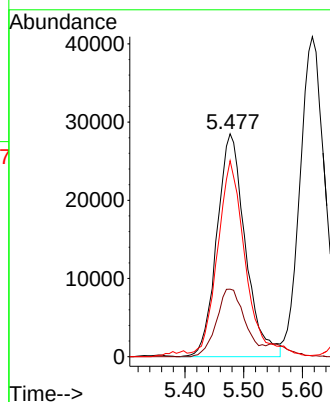
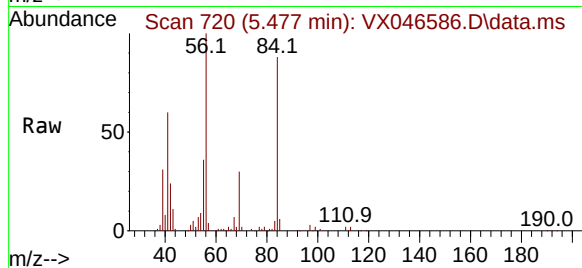
84 85.9 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#32

1,1,1-Trichloroethane

Concen: 53.292 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

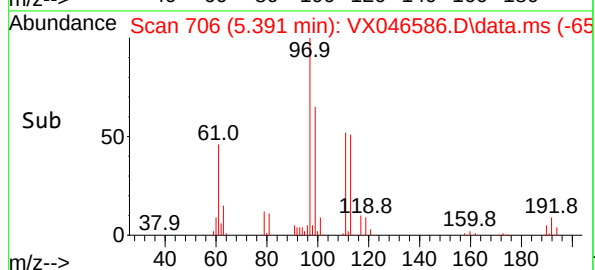
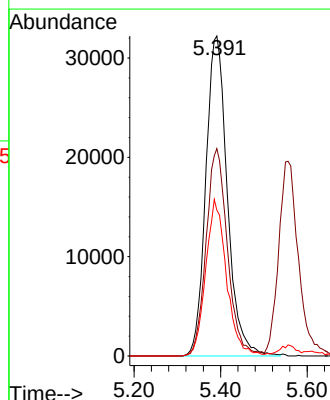
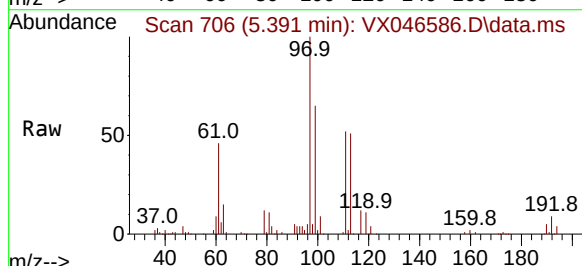
Tgt Ion: 97 Resp: 111065

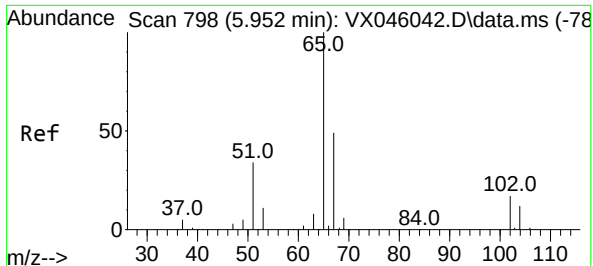
Ion Ratio Lower Upper

97 100

99 64.2 51.8 77.6

61 47.4 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 42.529 ug/l

RT: 5.958 min Scan# 798

Delta R.T. -0.012 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 68670

Ion Ratio Lower Upper

65 100

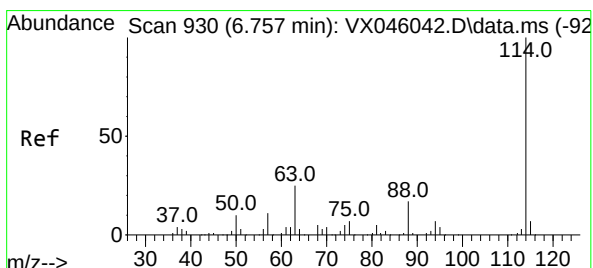
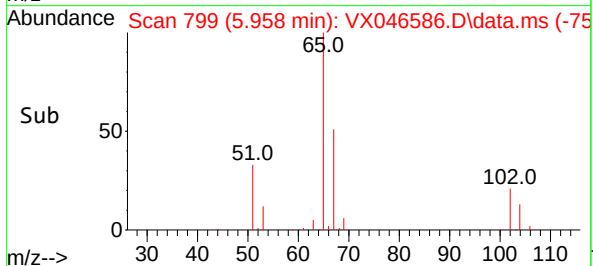
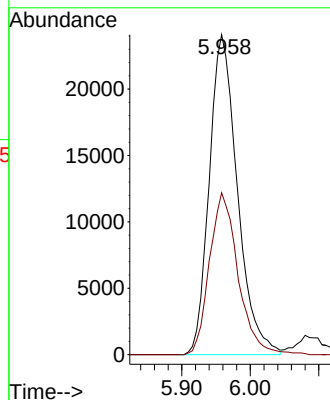
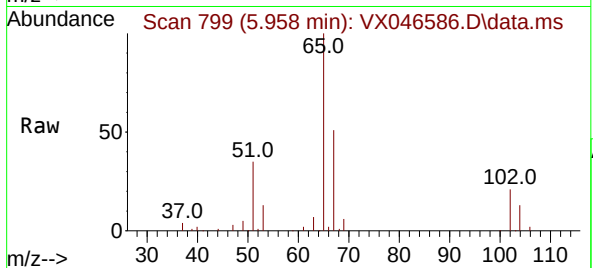
67 51.5 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.012 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

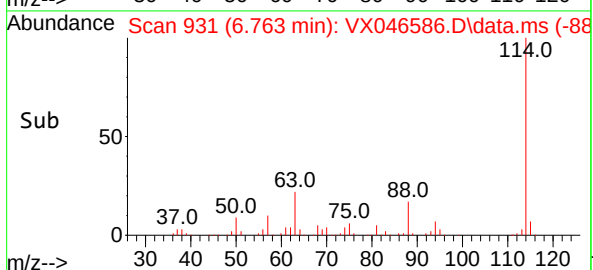
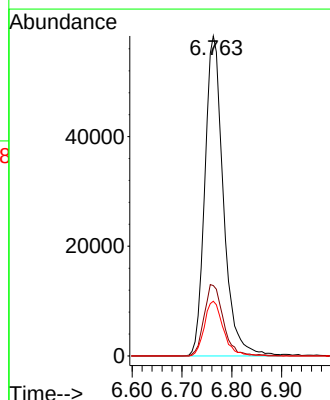
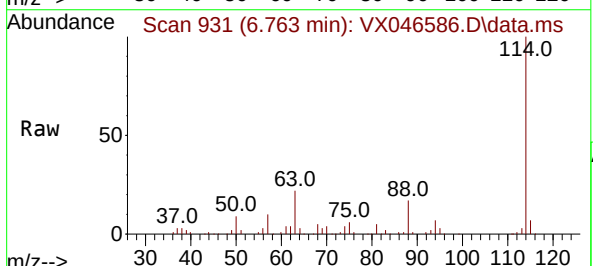
Tgt Ion:114 Resp: 150623

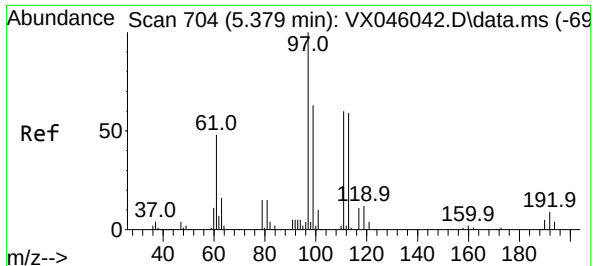
Ion Ratio Lower Upper

114 100

63 22.0 0.0 49.2

88 17.1 0.0 33.6





#35

Dibromofluoromethane

Concen: 48.920 ug/l

RT: 5.385 min Scan# 704

Delta R.T. -0.018 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:113 Resp: 5418

Ion Ratio Lower Upper

113 100

111 101.1 83.1 124.7

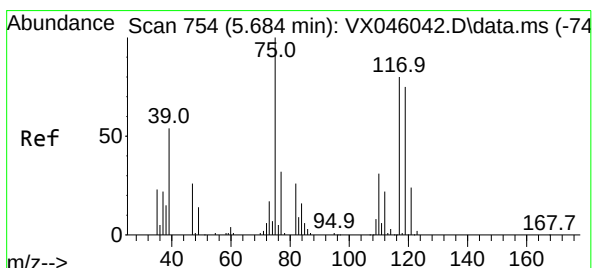
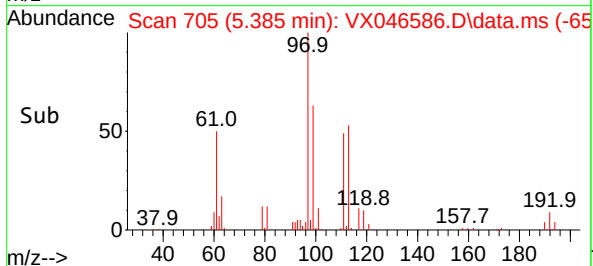
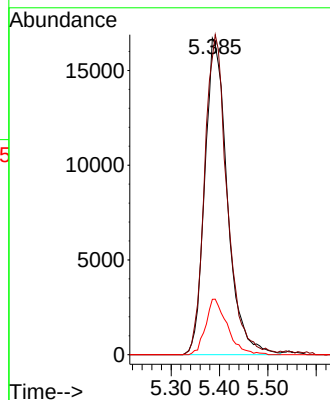
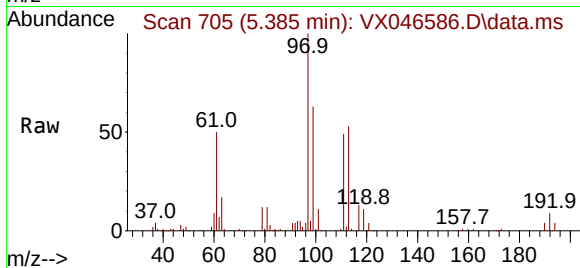
192 16.9 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#36

1,1-Dichloropropene

Concen: 51.010 ug/l

RT: 5.696 min Scan# 756

Delta R.T. -0.018 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

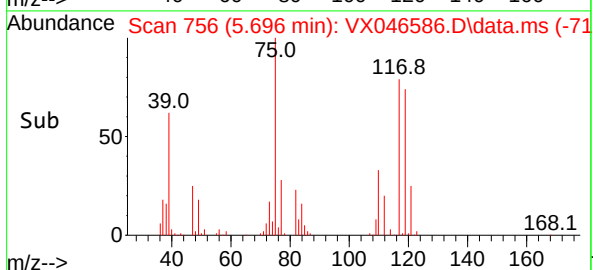
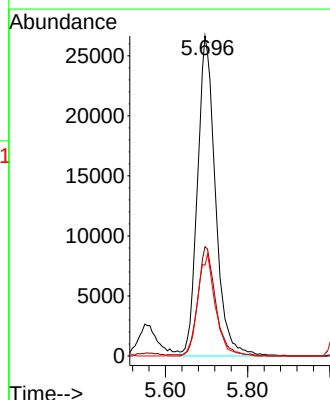
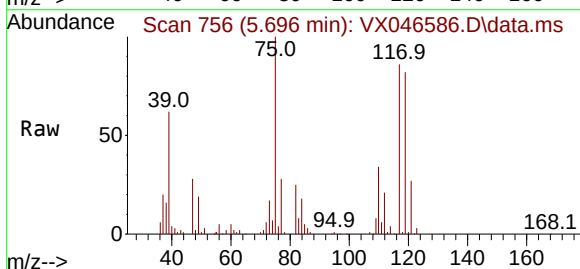
Tgt Ion: 75 Resp: 80709

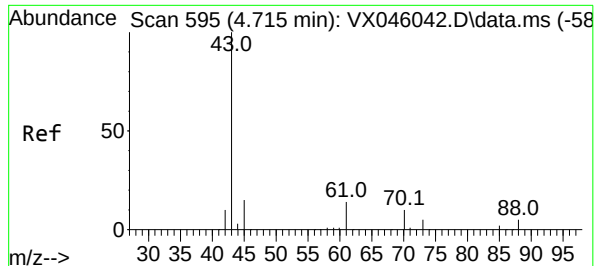
Ion Ratio Lower Upper

75 100

110 33.6 16.3 48.9

77 31.3 24.3 36.5





#37

Ethyl Acetate

Concen: 51.130 ug/l

RT: 4.721 min Scan# 595

Delta R.T. -0.012 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

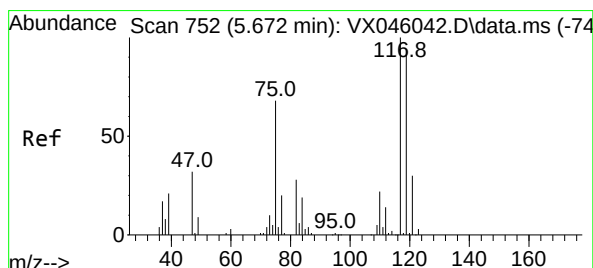
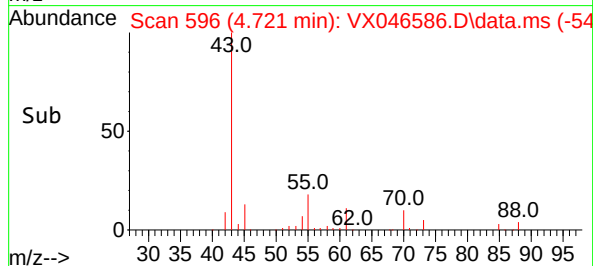
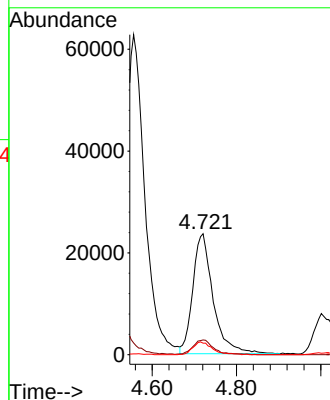
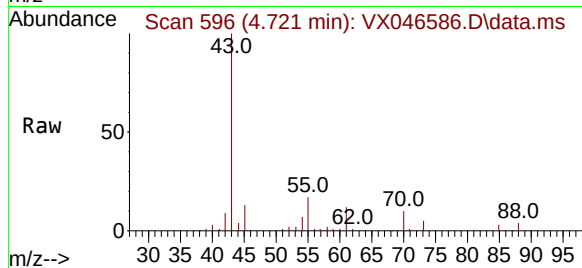
Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:	43	Resp:	7895
Ion Ratio	Lower	Upper	
43	100		
61	12.7	10.3	15.5
70	10.2	7.9	11.9

Manual Integrations
APPROVEDReviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

#38

Carbon Tetrachloride

Concen: 53.694 ug/l

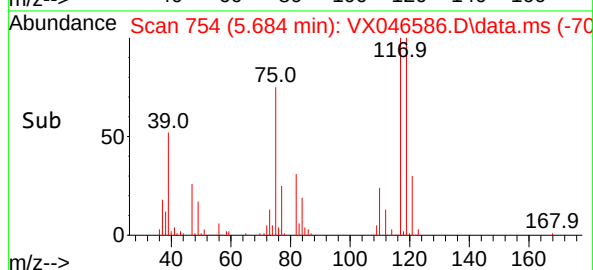
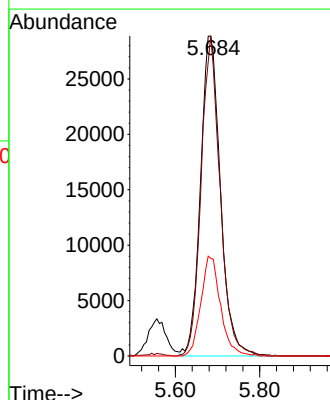
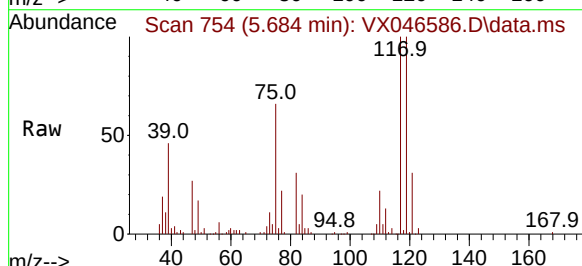
RT: 5.684 min Scan# 754

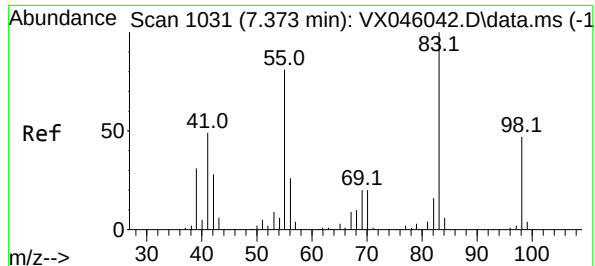
Delta R.T. -0.012 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Tgt Ion:	117	Resp:	95156
Ion Ratio	Lower	Upper	
117	100		
119	99.9	75.2	112.8
121	30.5	24.2	36.4





#39

Methylcyclohexane

Concen: 50.806 ug/l

RT: 7.379 min Scan# 1031

Delta R.T. -0.012 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 9488

Ion Ratio Lower Upper

83 100

55 81.1 64.7 97.1

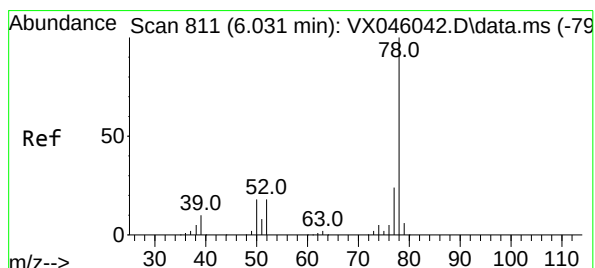
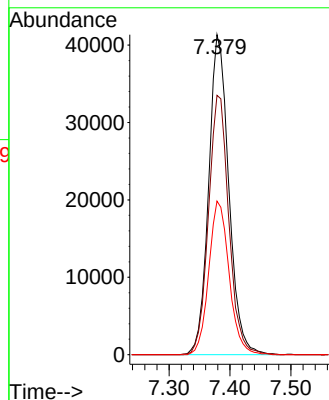
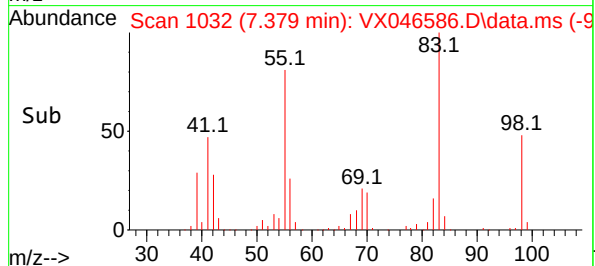
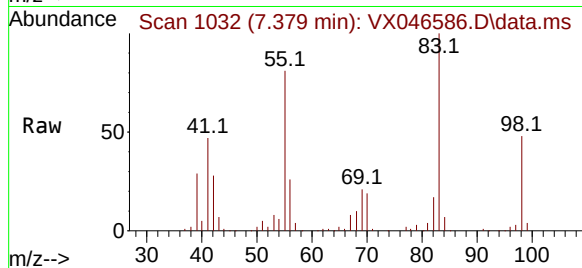
98 48.0 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#40

Benzene

Concen: 54.601 ug/l

RT: 6.037 min Scan# 812

Delta R.T. -0.019 min

Lab File: VX046586.D

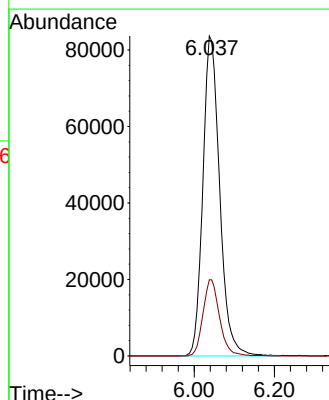
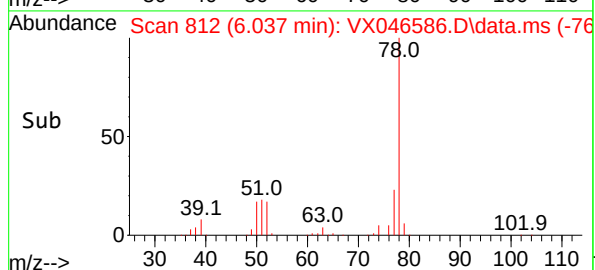
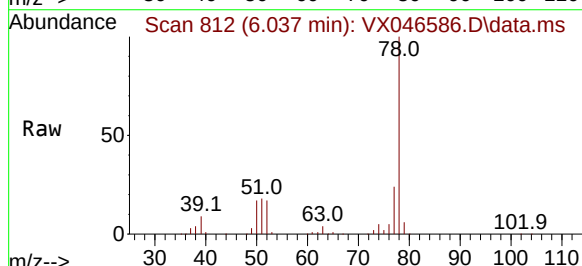
Acq: 10 Jun 2025 09:07

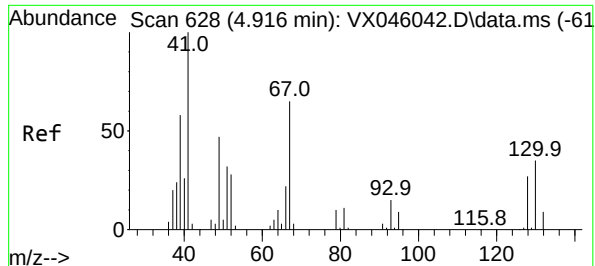
Tgt Ion: 78 Resp: 243205

Ion Ratio Lower Upper

78 100

77 23.8 19.0 28.4





#41

Methacrylonitrile

Concen: 51.438 ug/l

RT: 4.916 min Scan# 61

Delta R.T. -0.018 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 41 Resp: 4932

Ion Ratio Lower Upper

41 100

39 55.6 47.2 70.8

67 68.6 50.7 76.1

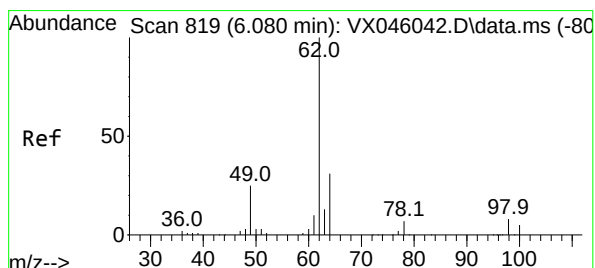
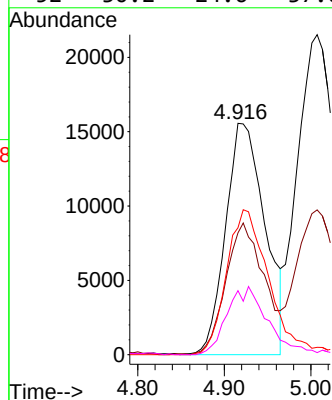
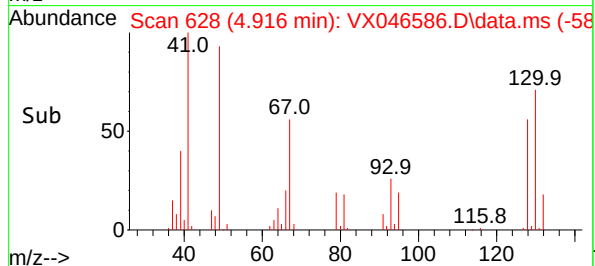
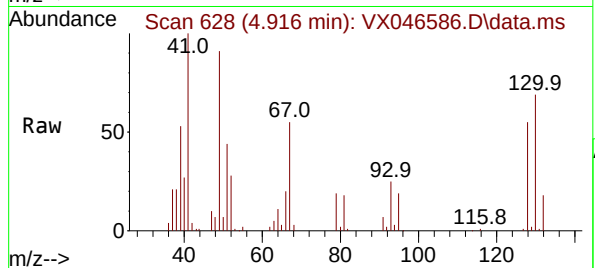
52 30.2 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#42

1,2-Dichloroethane

Concen: 53.402 ug/l

RT: 6.086 min Scan# 820

Delta R.T. -0.012 min

Lab File: VX046586.D

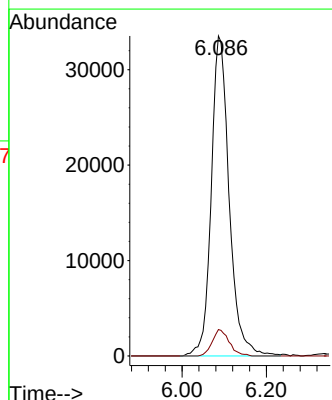
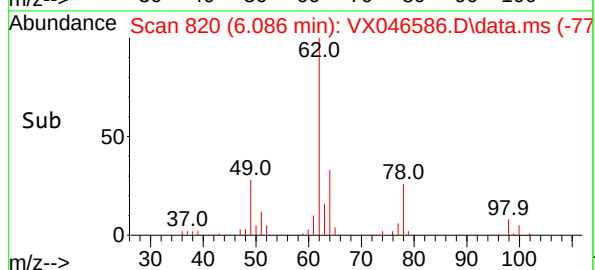
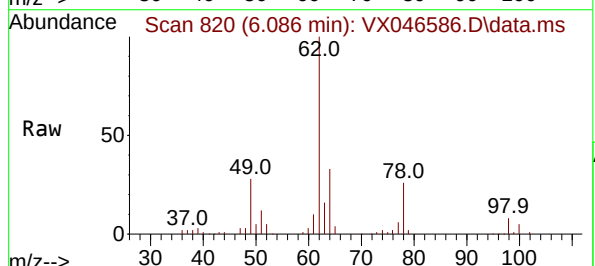
Acq: 10 Jun 2025 09:07

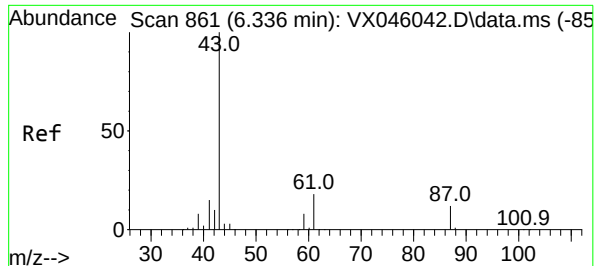
Tgt Ion: 62 Resp: 98959

Ion Ratio Lower Upper

62 100

98 7.8 0.0 15.2





#43

Isopropyl Acetate

Concen: 48.737 ug/l

RT: 6.342 min Scan# 80

Delta R.T. -0.012 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 131200

Ion Ratio Lower Upper

43

100

61

18.4

87

12.0

14.3

9.5

21.5

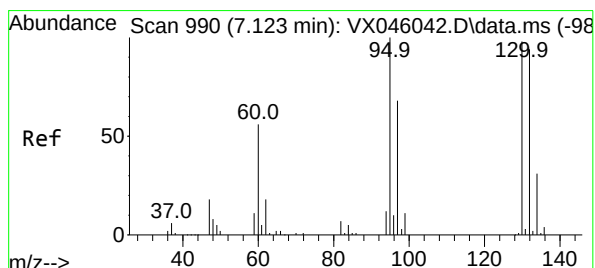
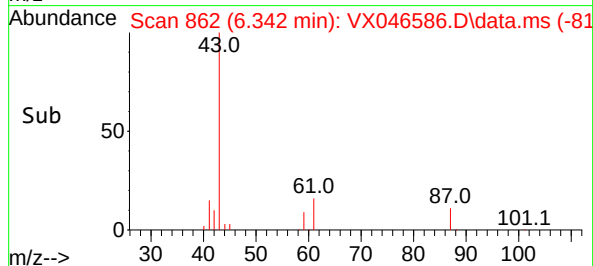
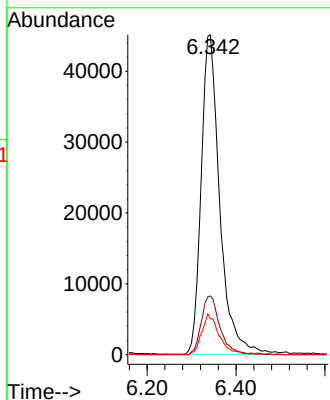
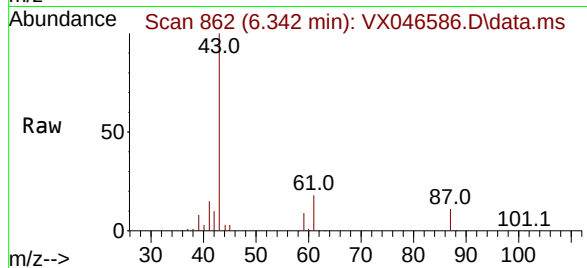
14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#44

Trichloroethene

Concen: 52.534 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Tgt Ion:130 Resp: 59456

Ion Ratio Lower Upper

130

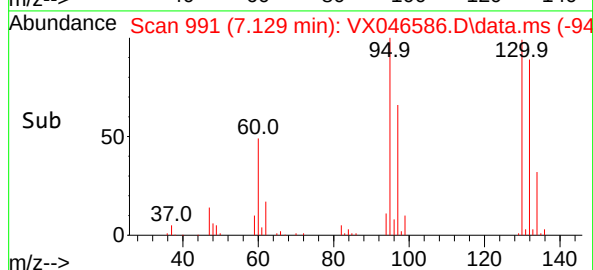
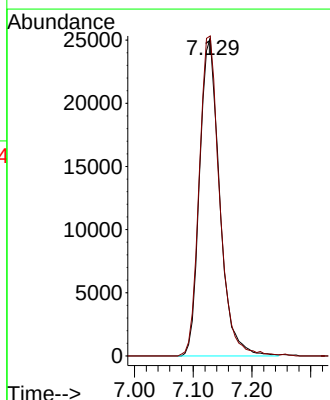
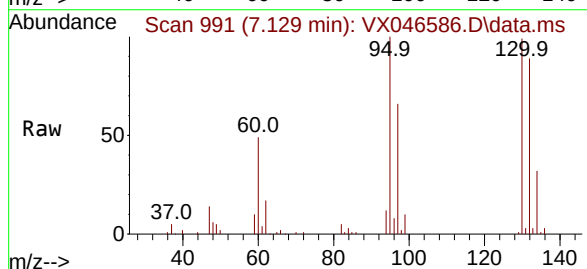
100

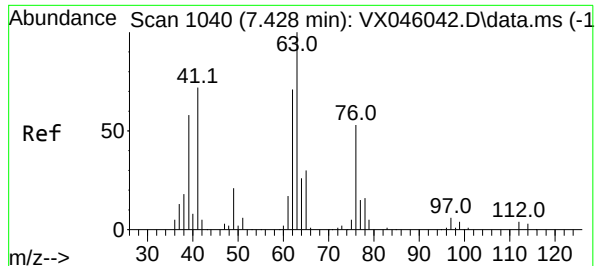
95

100.7

0.0

204.2





#45

1,2-Dichloropropane

Concen: 54.858 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.013 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 6307

Ion Ratio Lower Upper

63 100

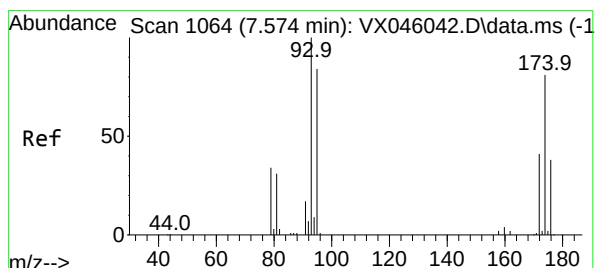
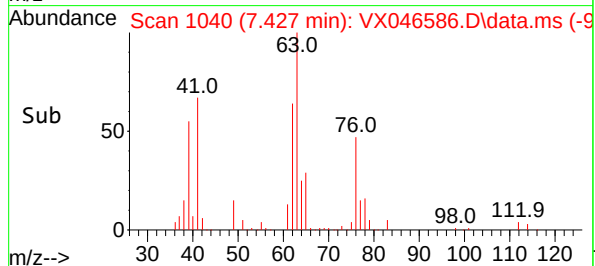
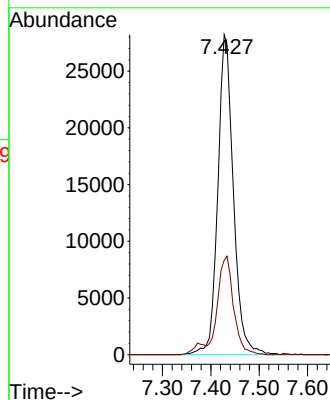
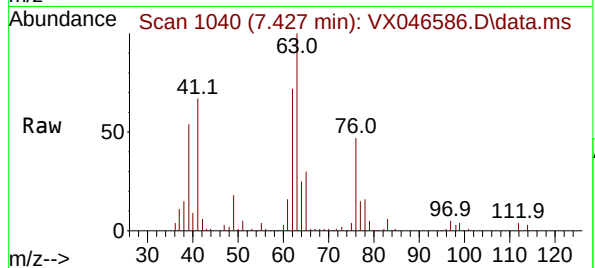
65 29.5 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#46

Dibromomethane

Concen: 52.699 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

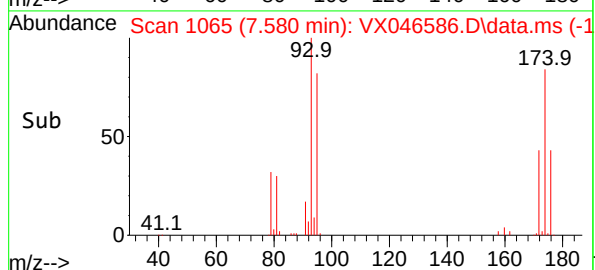
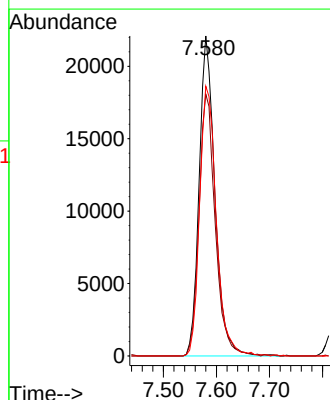
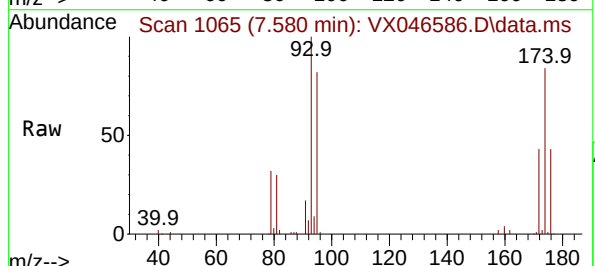
Tgt Ion: 93 Resp: 45581

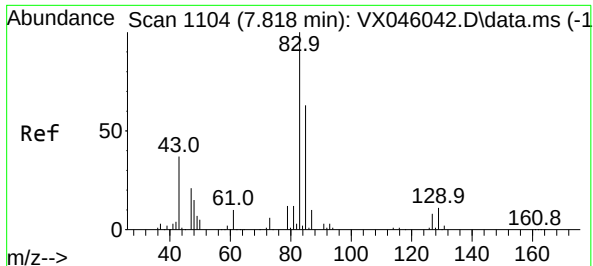
Ion Ratio Lower Upper

93 100

95 84.4 65.6 98.4

174 89.3 68.2 102.2





#47

Bromodichloromethane

Concen: 57.103 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

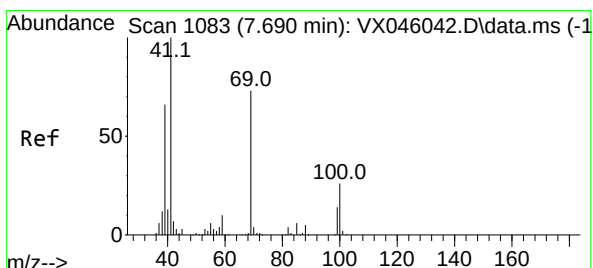
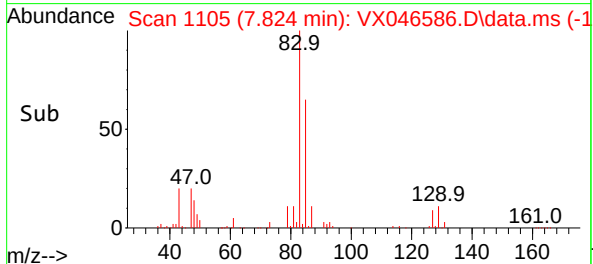
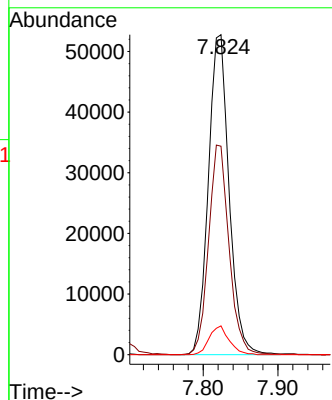
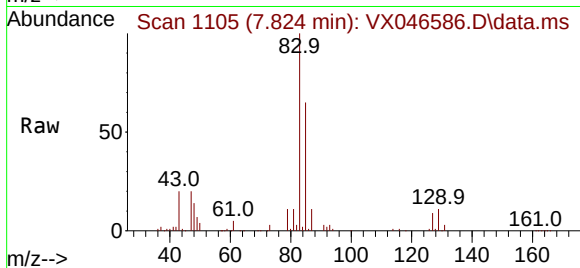
VSTDCCC050

Tgt Ion:	83	Resp:	101554
Ion	Ratio	Lower	Upper
83	100		
85	65.2	50.5	75.7
127	9.0	6.5	9.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#48

Methyl methacrylate

Concen: 49.326 ug/l

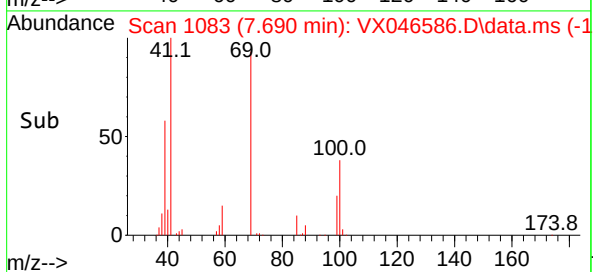
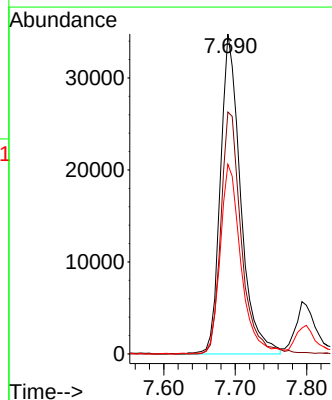
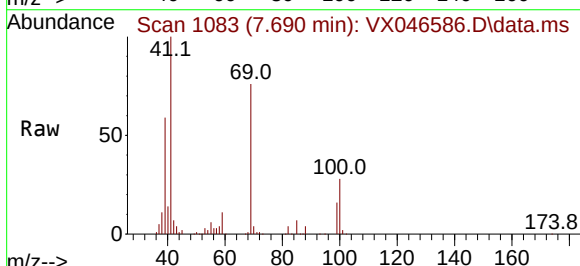
RT: 7.690 min Scan# 1083

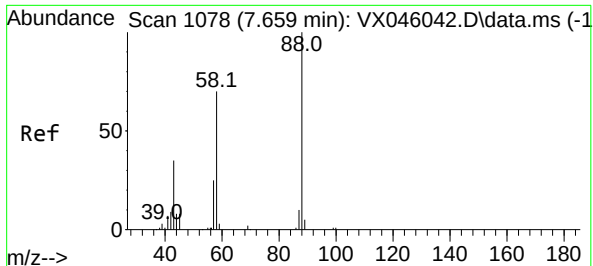
Delta R.T. -0.012 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Tgt Ion:	41	Resp:	68324
Ion	Ratio	Lower	Upper
41	100		
69	76.8	58.5	87.7
39	61.0	51.7	77.5





#49

1,4-Dioxane

Concen: 952.914 ug/l

RT: 7.653 min Scan# 1077

Delta R.T. -0.018 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 1765

Ion Ratio Lower Upper

88 100

43 42.7 33.4 50.2

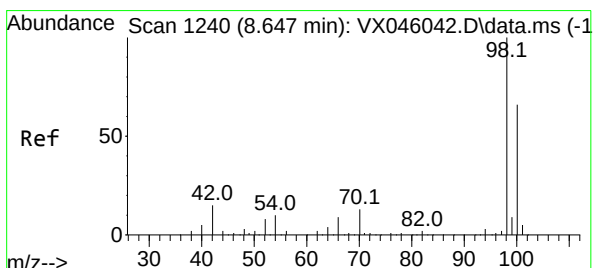
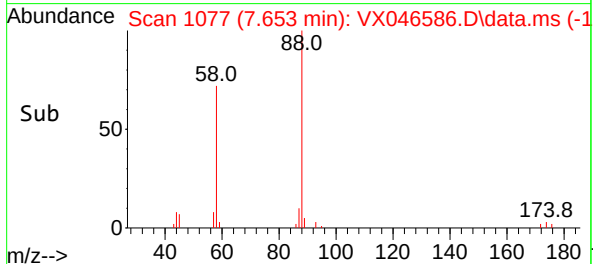
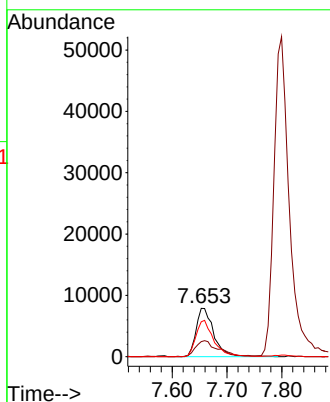
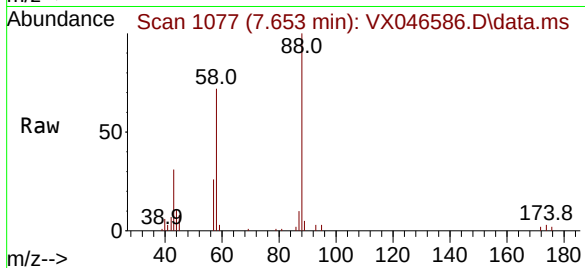
58 75.6 58.6 88.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#50

Toluene-d8

Concen: 47.502 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX046586.D

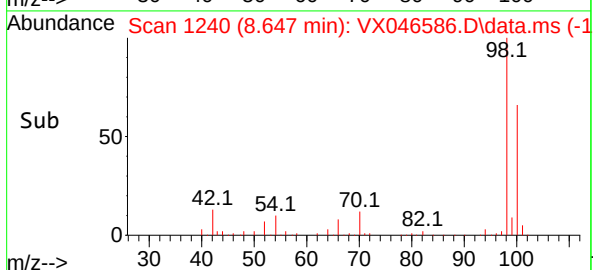
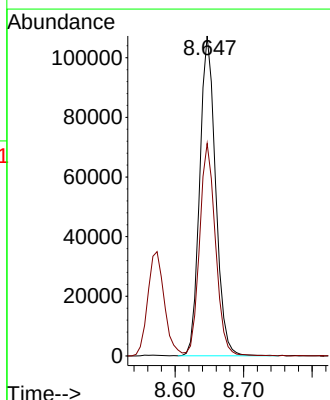
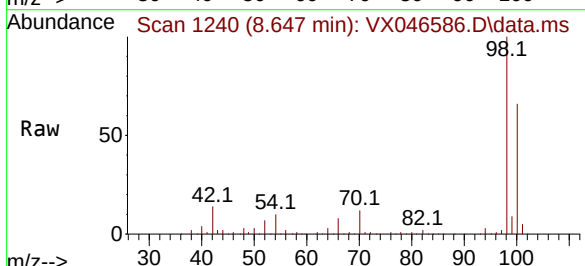
Acq: 10 Jun 2025 09:07

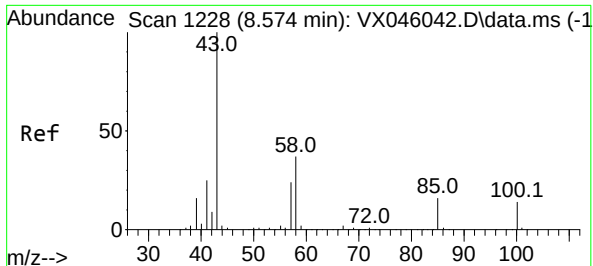
Tgt Ion: 98 Resp: 173470

Ion Ratio Lower Upper

98 100

100 66.2 53.5 80.3





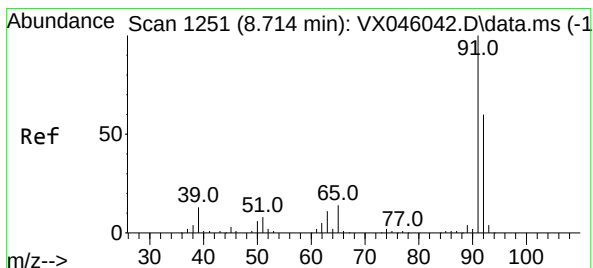
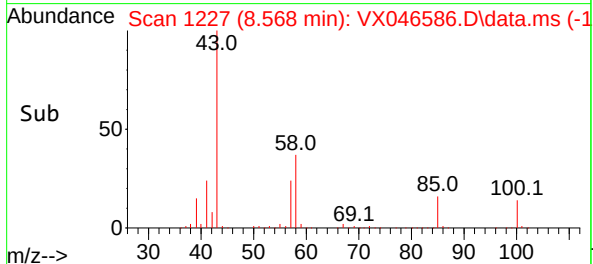
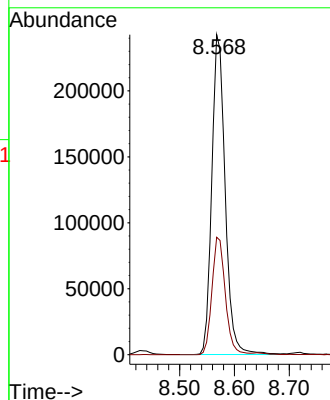
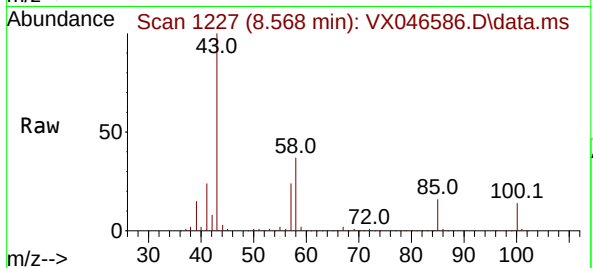
#51
4-Methyl-2-Pentanone
Concen: 239.572 ug/l
RT: 8.568 min Scan# 1227
Delta R.T. -0.005 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDC050

Tgt Ion: 43 Resp: 409850
Ion Ratio Lower Upper
43 100
58 36.6 28.9 43.3

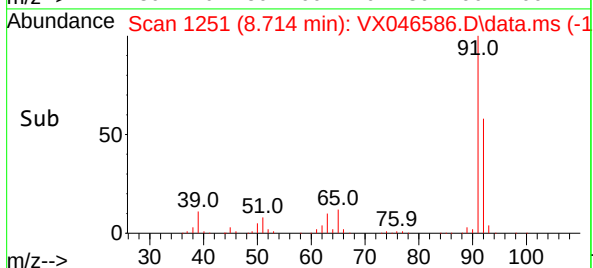
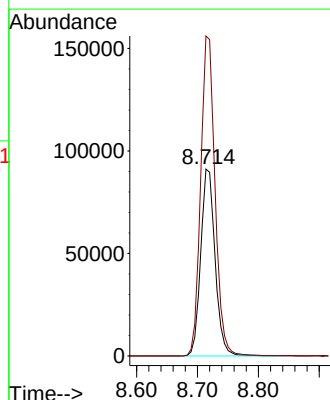
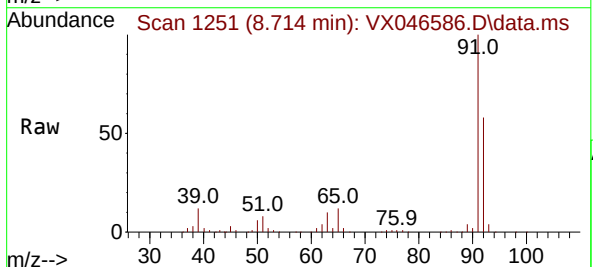
Manual Integrations
APPROVED

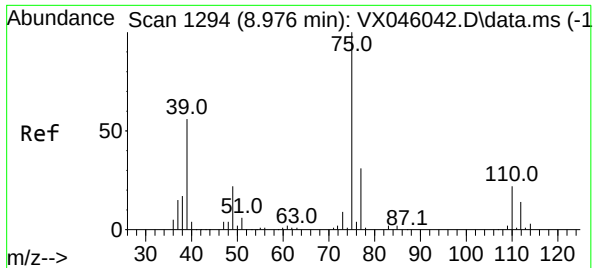
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#52
Toluene
Concen: 54.605 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.006 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

Tgt Ion: 92 Resp: 149428
Ion Ratio Lower Upper
92 100
91 171.6 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 57.101 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 91050

Ion Ratio Lower Upper

75 100

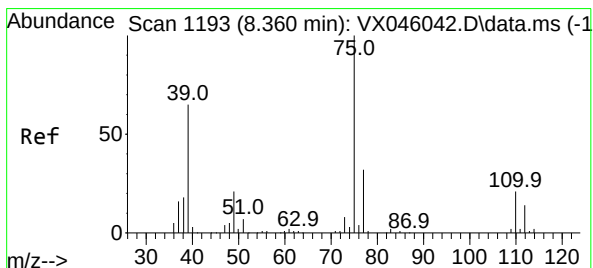
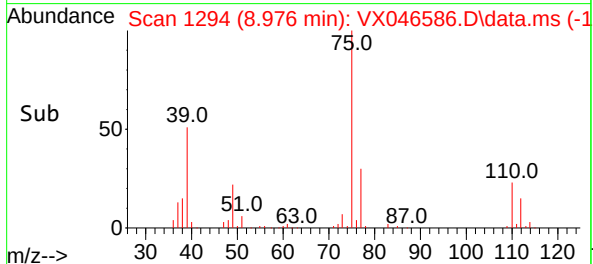
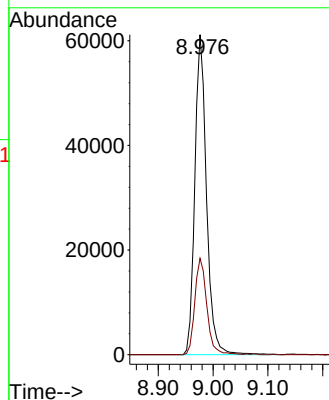
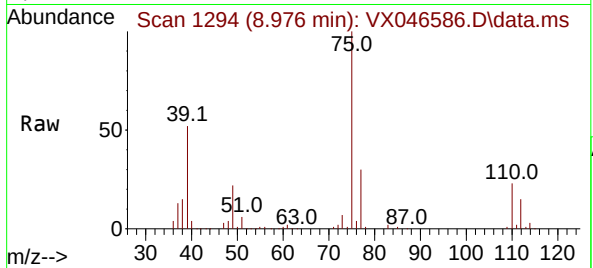
77 30.1 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#54

cis-1,3-Dichloropropene

Concen: 56.746 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

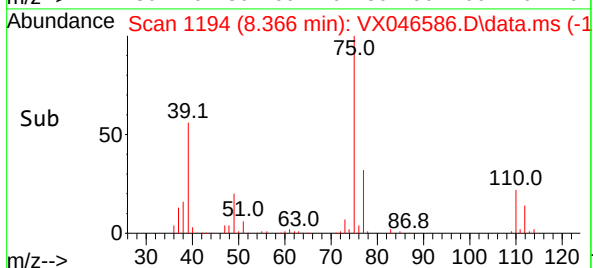
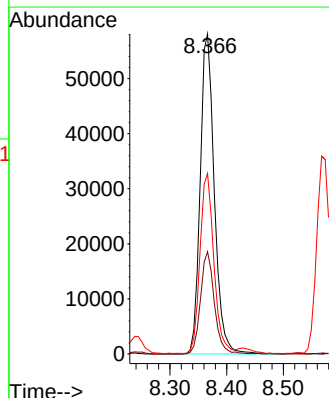
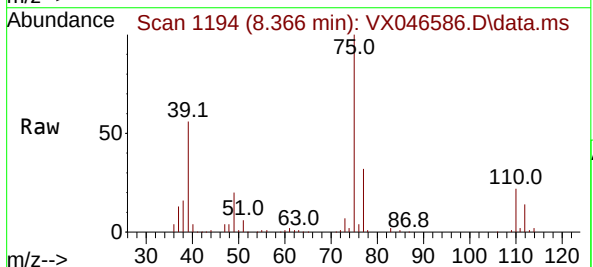
Tgt Ion: 75 Resp: 100606

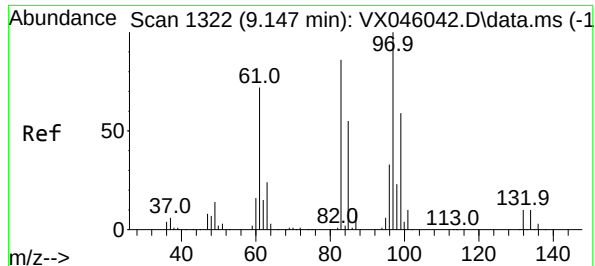
Ion Ratio Lower Upper

75 100

77 32.0 25.4 38.0

39 56.2 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 55.174 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 6061

Ion Ratio Lower Upper

97 100

83 85.2 69.0 103.6

85 58.1 44.3 66.5

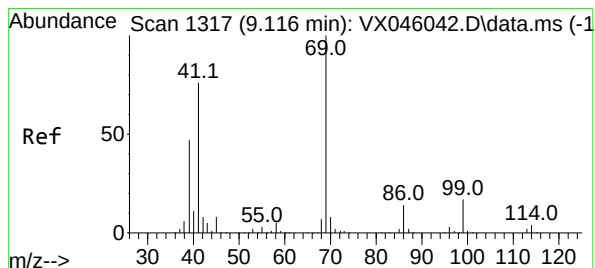
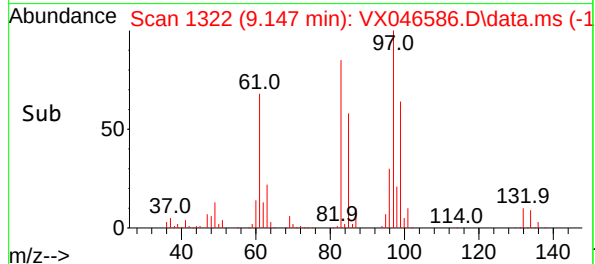
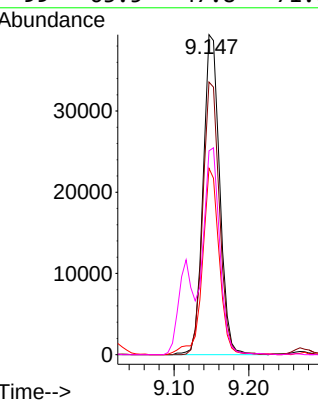
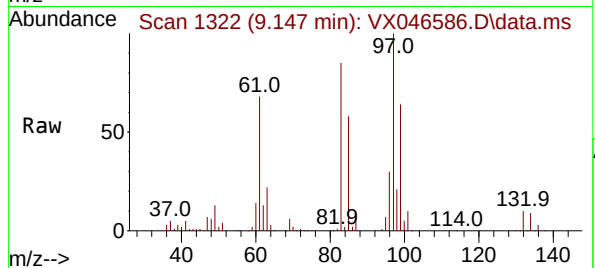
99 63.5 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#56

Ethyl methacrylate

Concen: 53.621 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

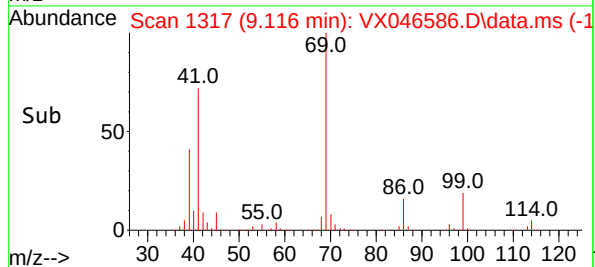
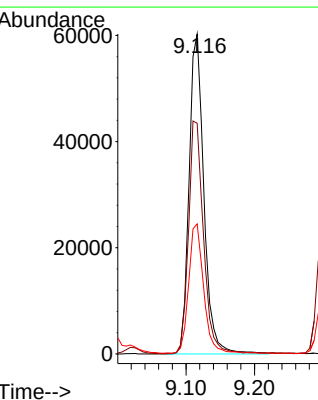
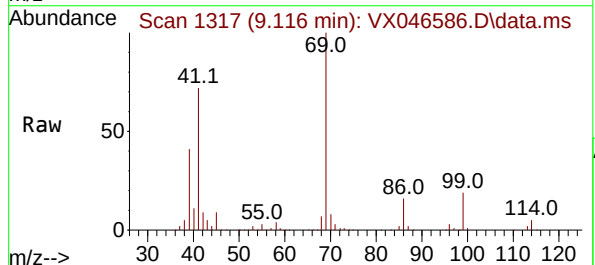
Tgt Ion: 69 Resp: 90648

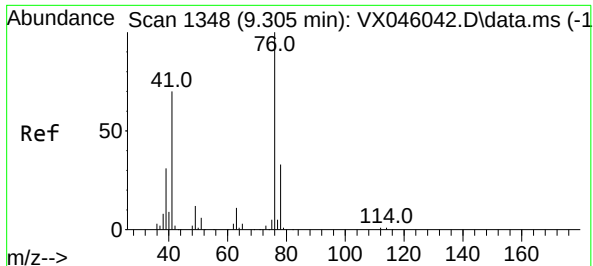
Ion Ratio Lower Upper

69 100

41 73.7 60.8 91.2

39 41.1 39.0 58.6





#57

1,3-Dichloropropane

Concen: 53.935 ug/l

RT: 9.305 min Scan# 1173

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDC050

Tgt Ion: 76 Resp: 104709

Ion Ratio Lower Upper

76 100

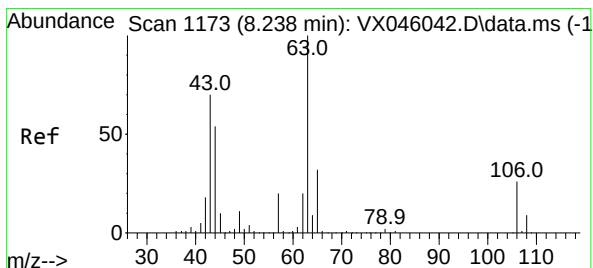
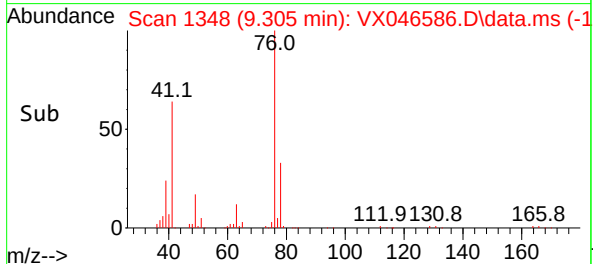
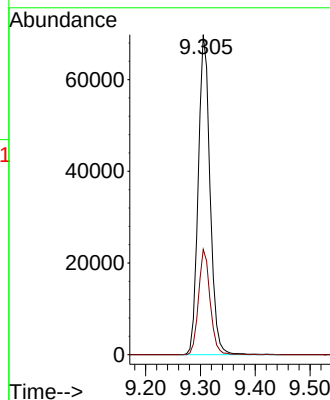
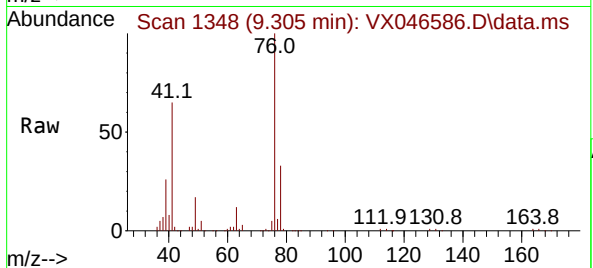
78 32.3 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#58

2-Chloroethyl Vinyl ether

Concen: 245.588 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.006 min

Lab File: VX046586.D

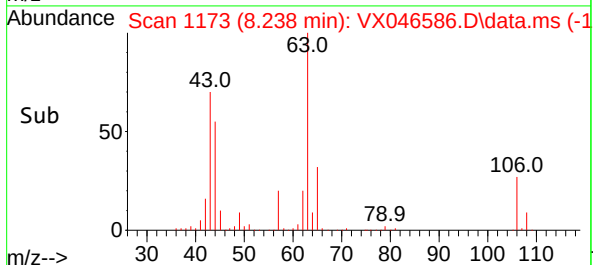
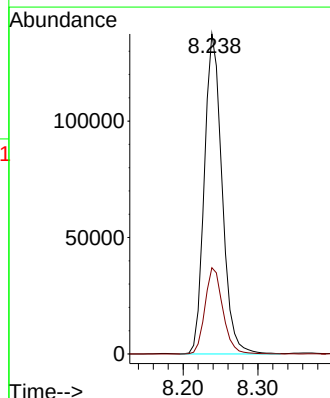
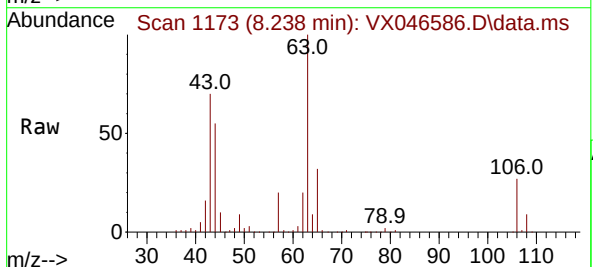
Acq: 10 Jun 2025 09:07

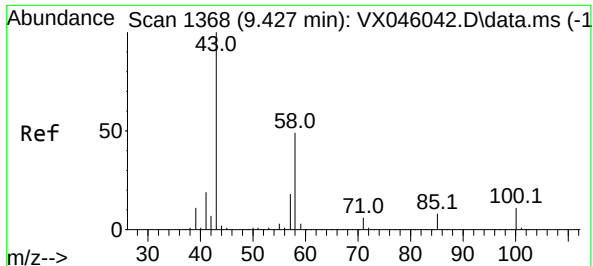
Tgt Ion: 63 Resp: 226143

Ion Ratio Lower Upper

63 100

106 27.2 21.5 32.3





#59

2-Hexanone

Concen: 229.299 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 281334

Ion Ratio Lower Upper

43 100

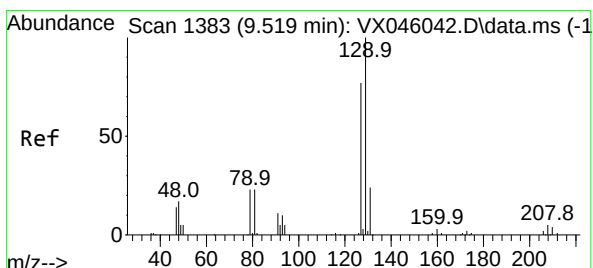
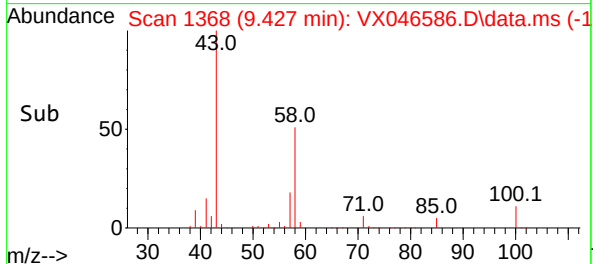
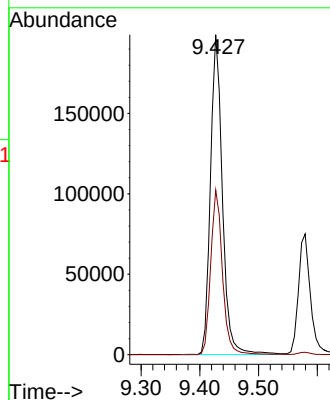
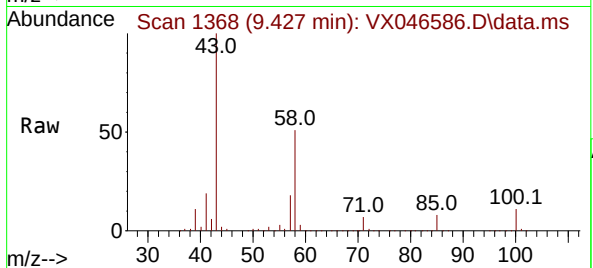
58 50.8 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#60

Dibromochloromethane

Concen: 56.586 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.006 min

Lab File: VX046586.D

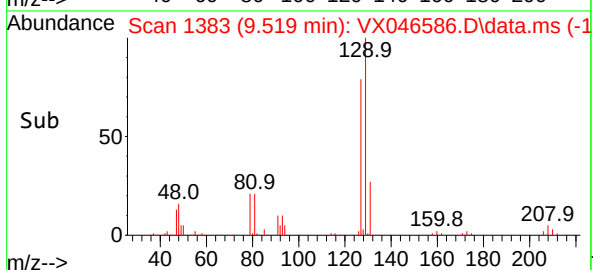
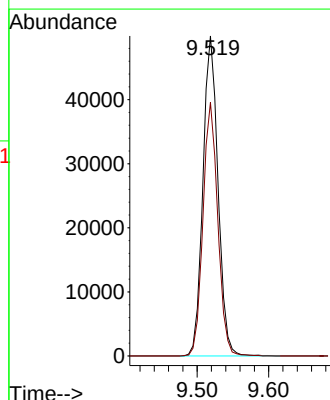
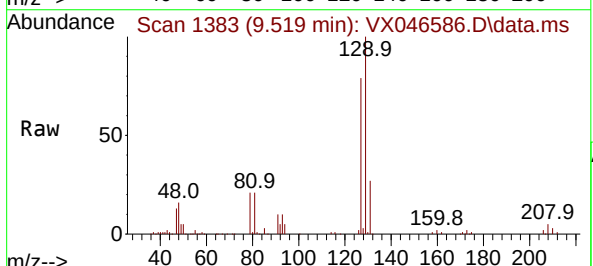
Acq: 10 Jun 2025 09:07

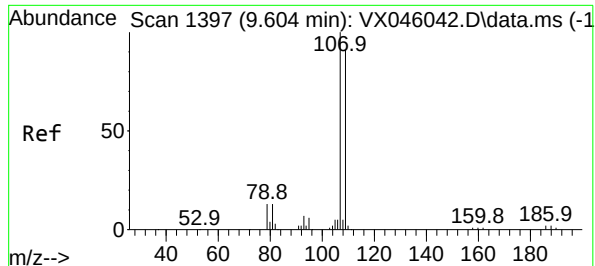
Tgt Ion:129 Resp: 73121

Ion Ratio Lower Upper

129 100

127 77.8 39.3 117.8





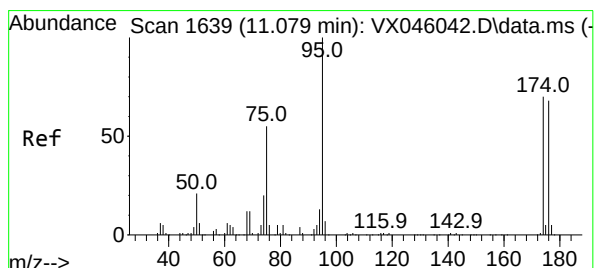
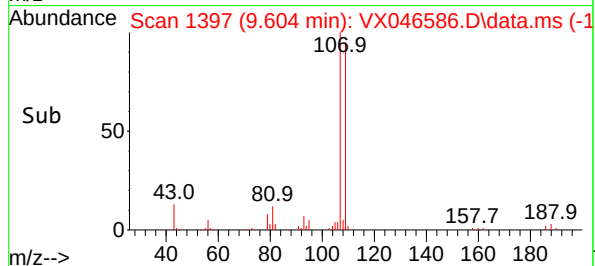
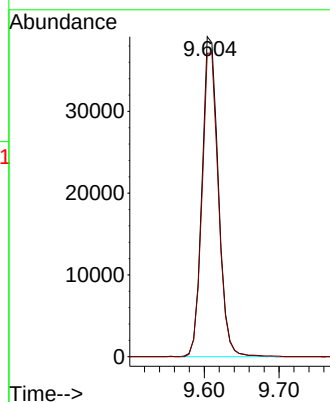
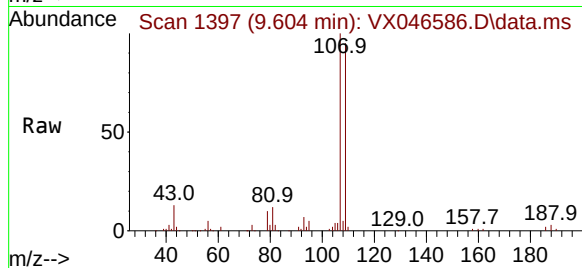
#61
1,2-Dibromoethane
Concen: 51.925 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. -0.006 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 107 Resp: 5944
Ion Ratio Lower Upper
107 100
109 95.3 73.3 109.9

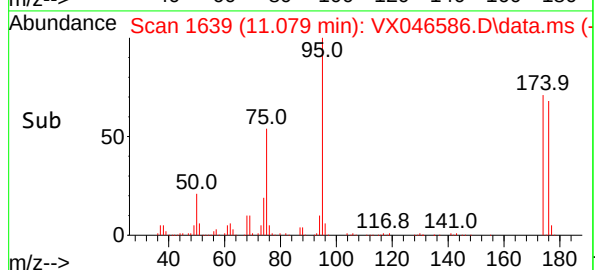
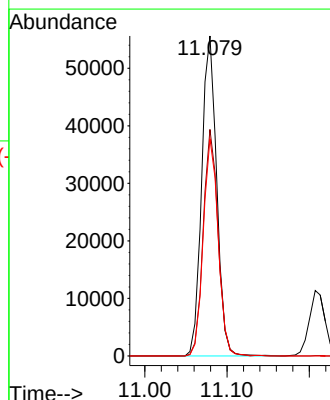
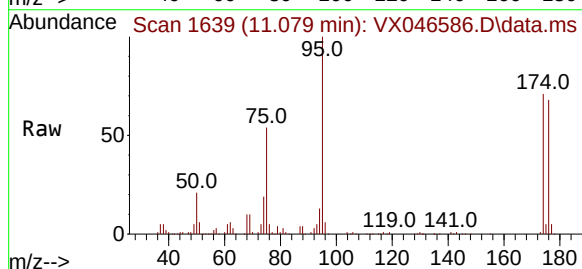
Manual Integrations
APPROVED

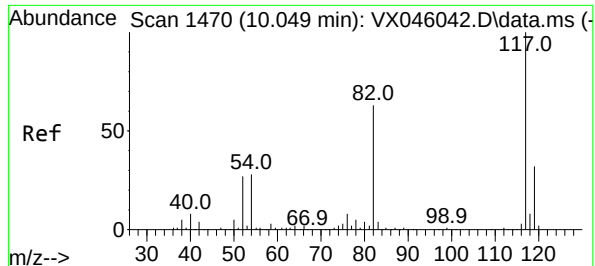
Reviewed By : John Carlone 06/11/2025
Supervised By : Mahesh Dadoda 06/11/2025



#62
4-Bromofluorobenzene
Concen: 46.644 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

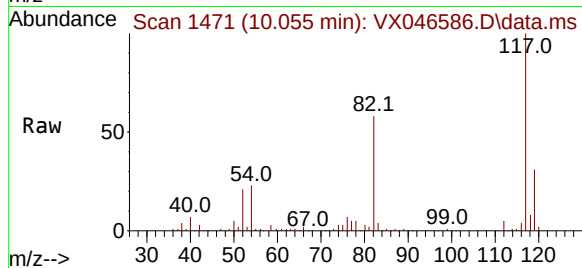
Tgt Ion: 95 Resp: 70476
Ion Ratio Lower Upper
95 100
174 69.9 0.0 135.8
176 67.4 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

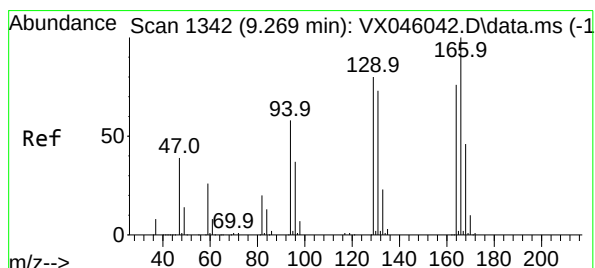
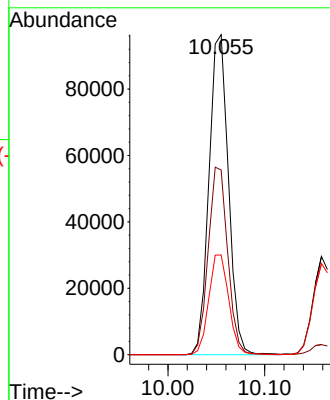
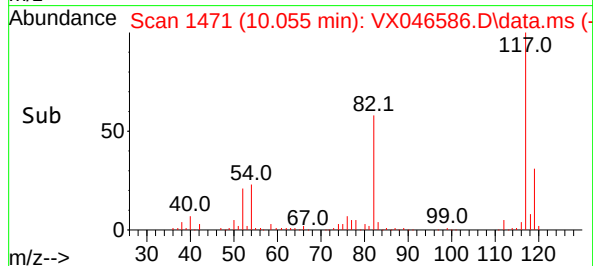
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:117 Resp: 13476
Ion Ratio Lower Upper
117 100
82 57.7 50.6 76.0
119 31.1 25.8 38.6

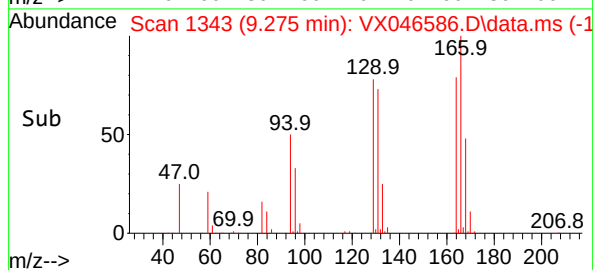
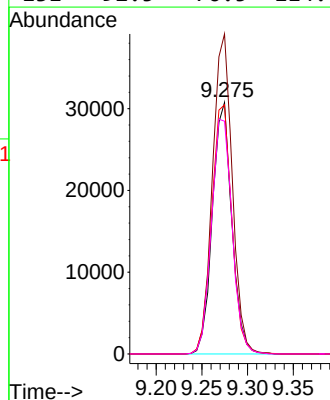
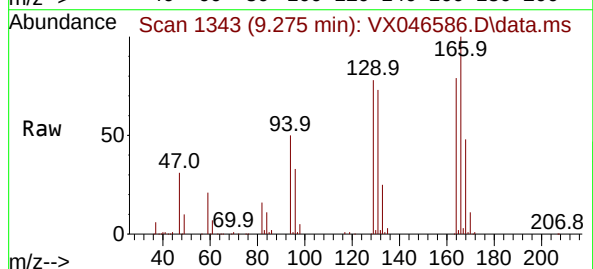
Manual Integrations
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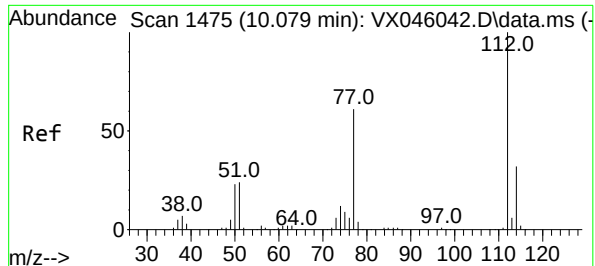
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#64
Tetrachloroethene
Concen: 50.206 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

Tgt Ion:164 Resp: 45245
Ion Ratio Lower Upper
164 100
166 127.2 105.0 157.6
129 99.0 83.5 125.3
131 92.5 76.5 114.7





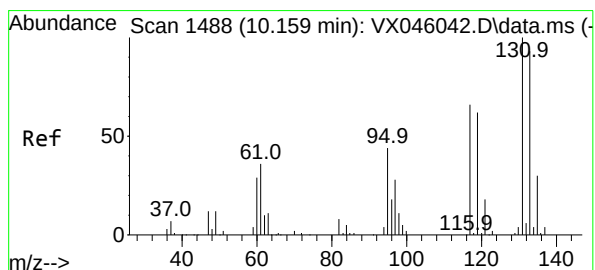
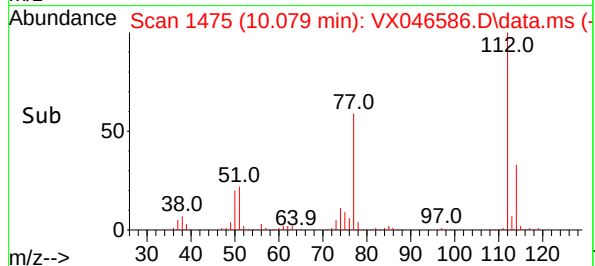
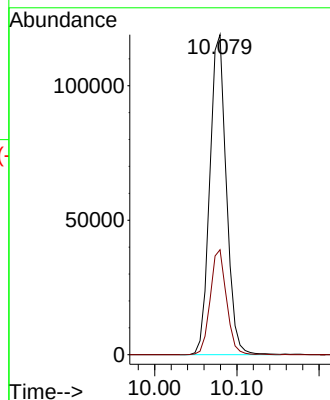
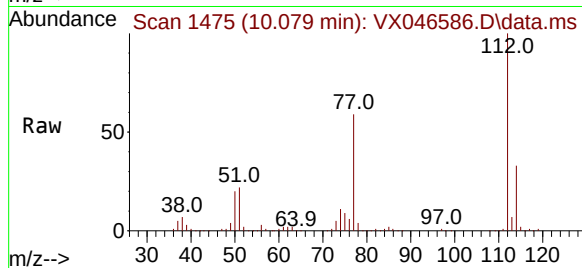
#65
Chlorobenzene
Concen: 52.473 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 166310
Ion Ratio Lower Upper
112 100
114 32.8 25.4 38.2

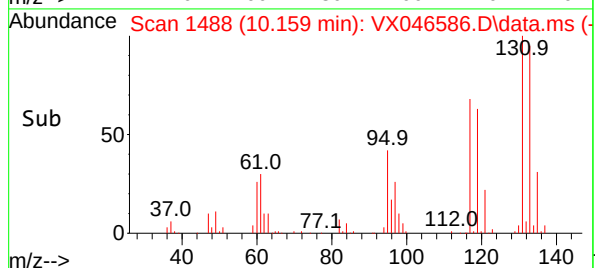
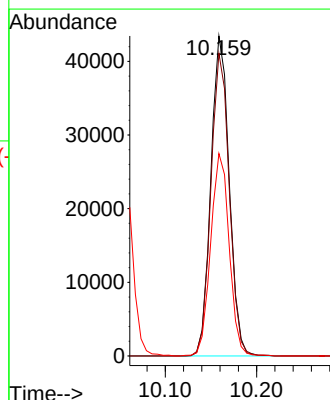
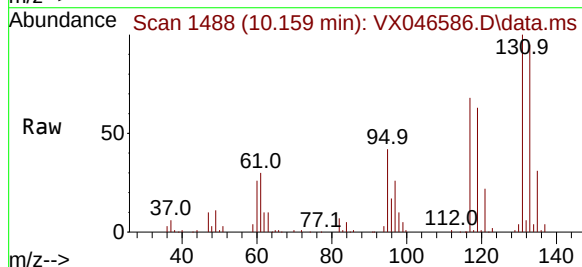
Manual Integrations
APPROVED

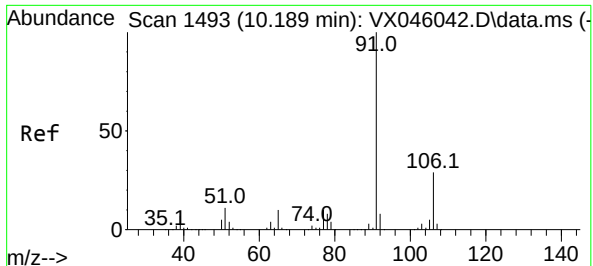
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 56.356 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.006 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

Tgt Ion:131 Resp: 60360
Ion Ratio Lower Upper
131 100
133 94.8 47.3 141.9
119 64.0 31.6 95.0





#67

Ethyl Benzene

Concen: 53.081 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 29371

Ion Ratio Lower Upper

91 100

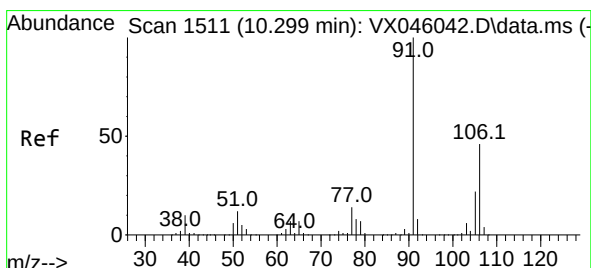
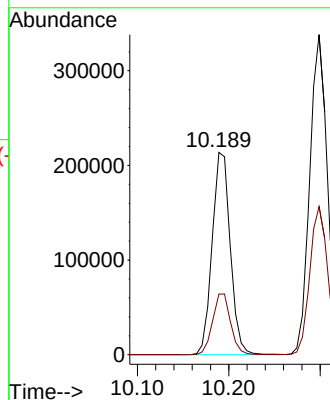
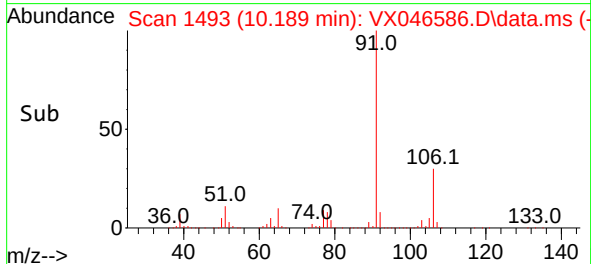
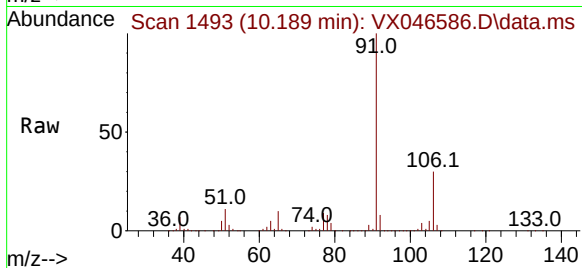
106 30.0 23.4 35.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#68

m/p-Xylenes

Concen: 107.686 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX046586.D

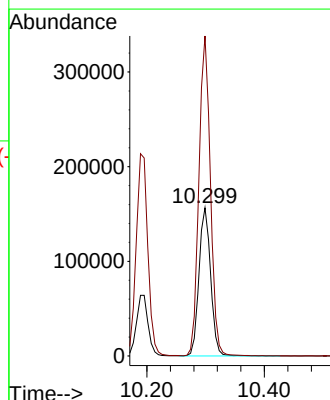
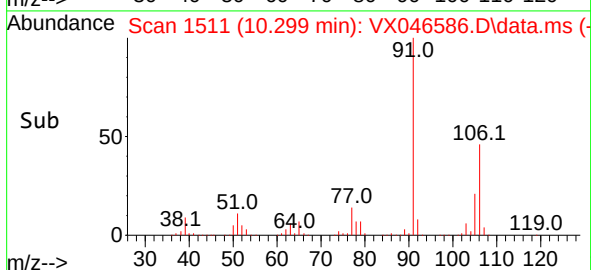
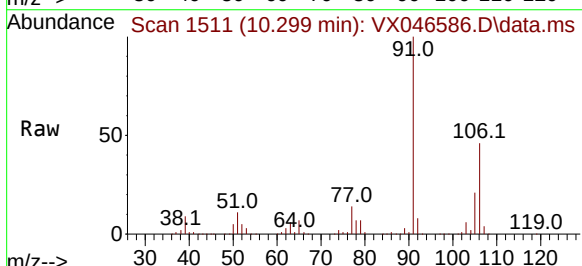
Acq: 10 Jun 2025 09:07

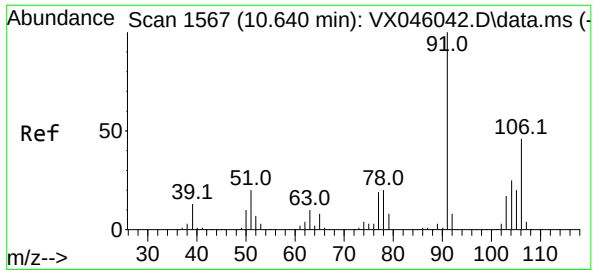
Tgt Ion:106 Resp: 216146

Ion Ratio Lower Upper

106 100

91 213.1 171.2 256.8





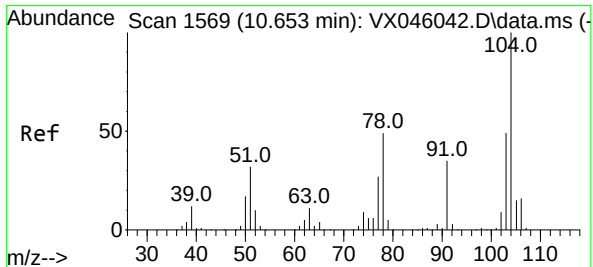
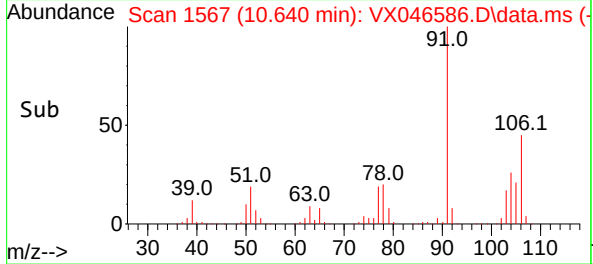
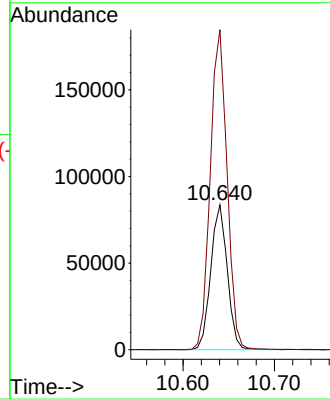
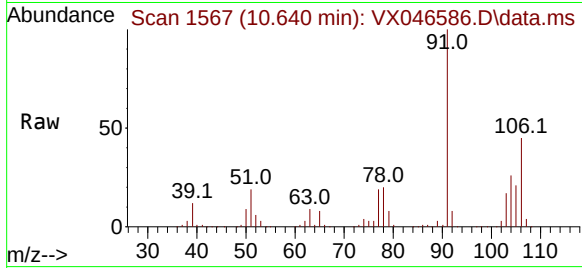
#69
o-Xylene
Concen: 53.823 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 104495
Ion Ratio Lower Upper
106 100
91 225.3 112.7 338.1

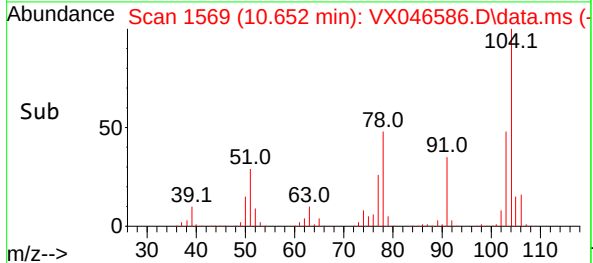
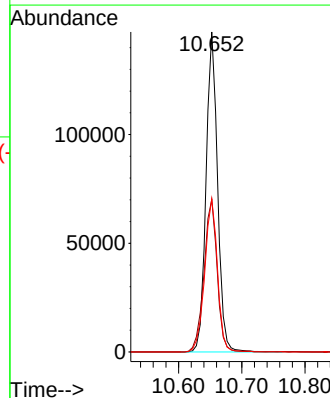
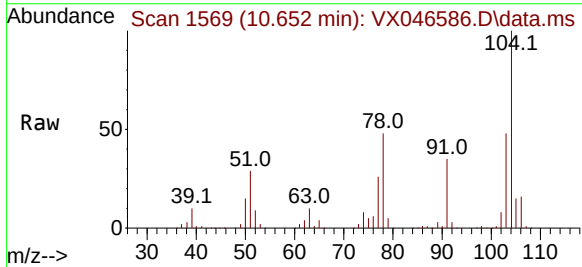
Manual Integrations
APPROVED

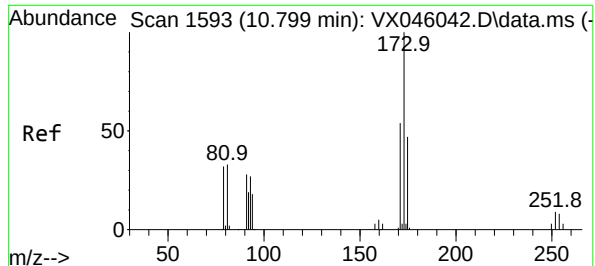
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#70
Styrene
Concen: 56.124 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.006 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

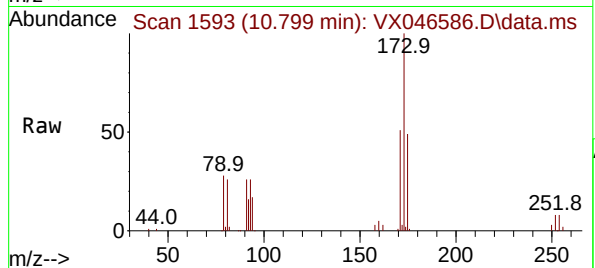
Tgt Ion:104 Resp: 186521
Ion Ratio Lower Upper
104 100
78 54.6 45.7 68.5
103 53.2 43.7 65.5





#71
Bromoform
Concen: 55.623 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

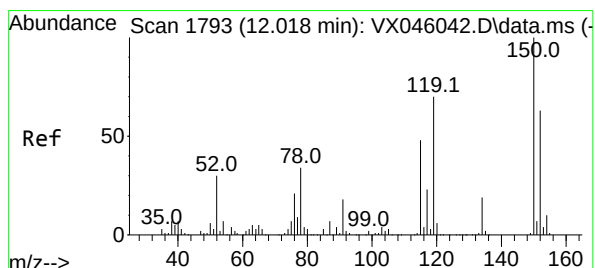
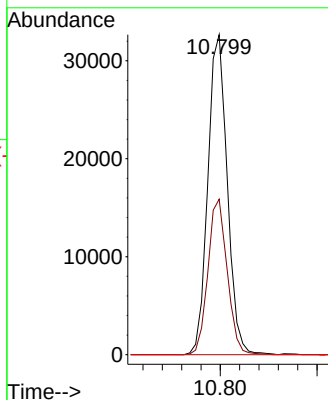
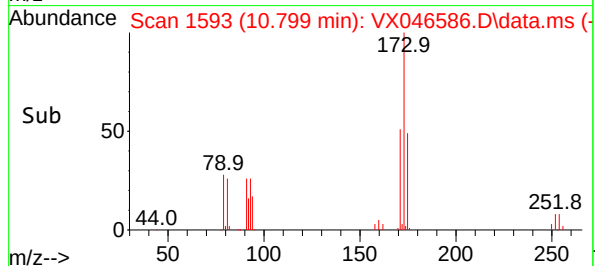
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:173 Resp: 45429
Ion Ratio Lower Upper
173 100
175 48.4 23.4 70.0
254 0.0 0.0 0.0

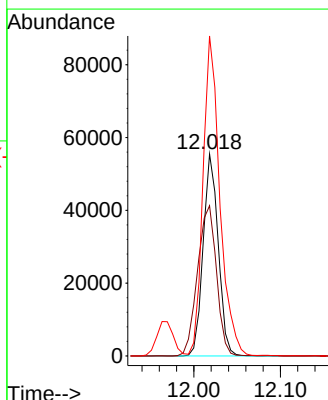
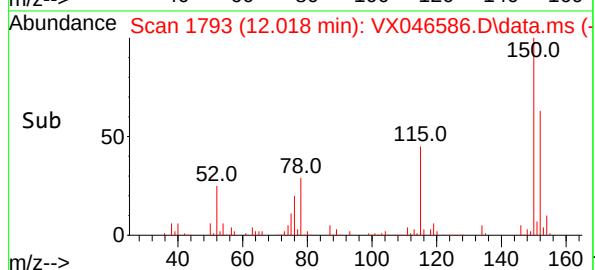
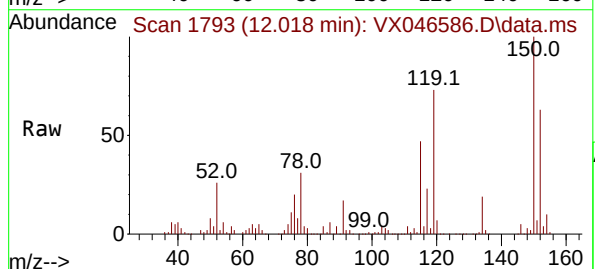
Manual Integrations
APPROVED

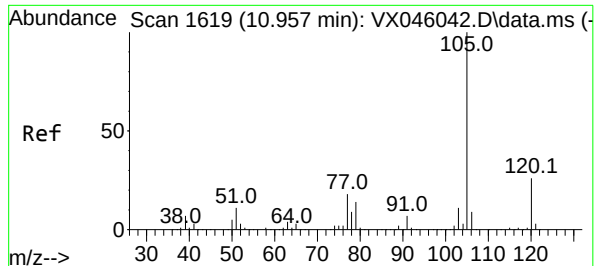
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

Tgt Ion:152 Resp: 66941
Ion Ratio Lower Upper
152 100
115 93.9 46.9 140.7
150 177.3 0.0 351.0





#73

Isopropylbenzene

Concen: 54.106 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 28471

Ion Ratio Lower Upper

105 100

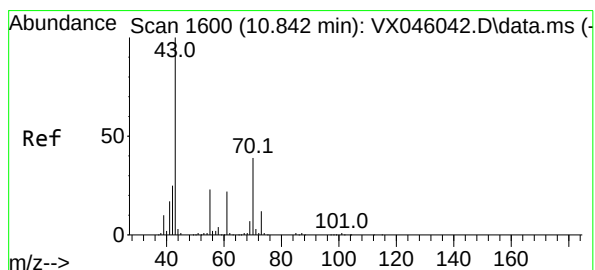
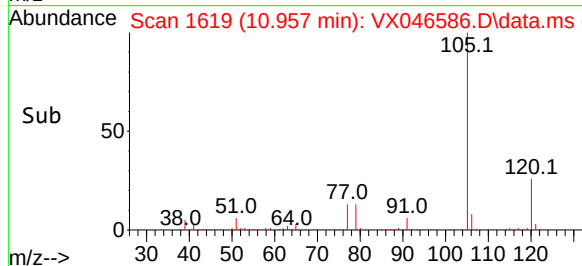
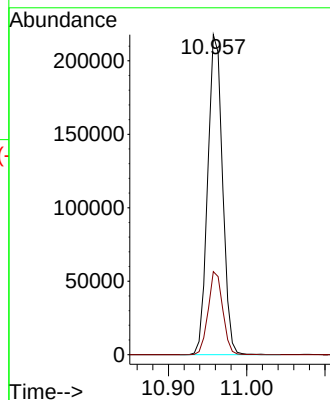
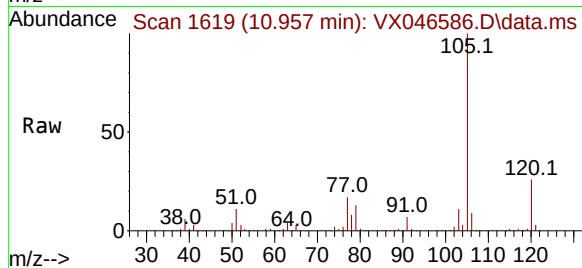
120 25.5 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#74

N-ethyl acetate

Concen: 49.214 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. 0.000 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Tgt Ion: 43 Resp: 114046

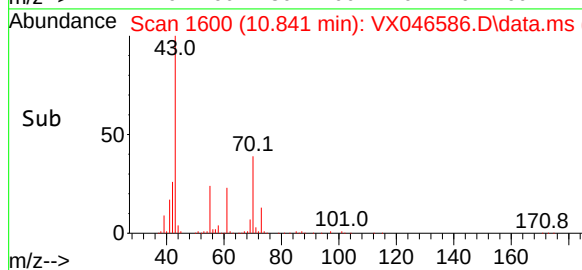
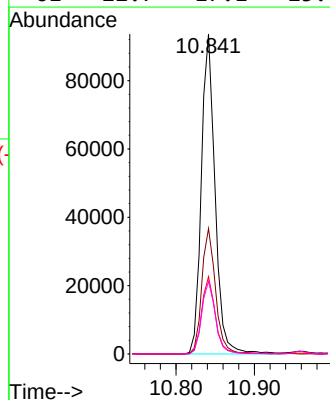
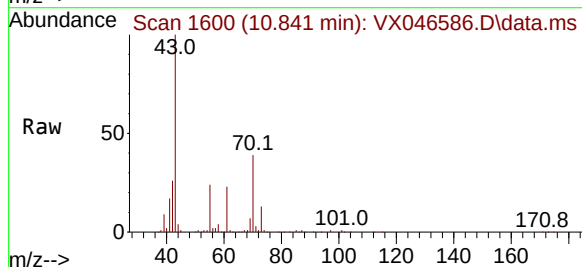
Ion Ratio Lower Upper

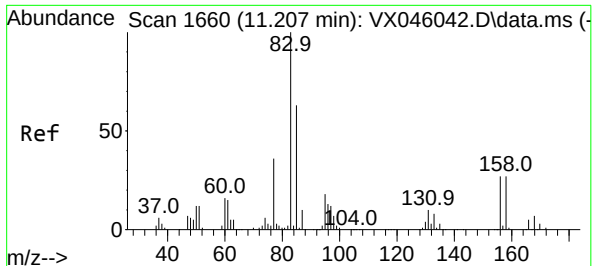
43 100

70 39.5 30.9 46.3

55 24.2 18.7 28.1

61 22.7 17.1 25.7





#75

1,1,2,2-Tetrachloroethane

Concen: 50.980 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

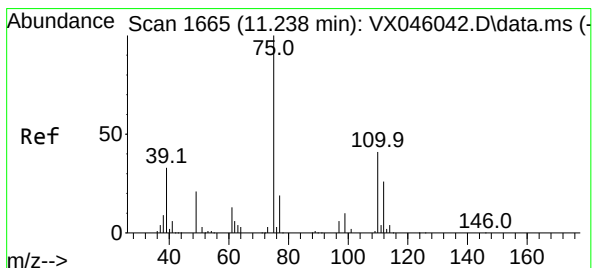
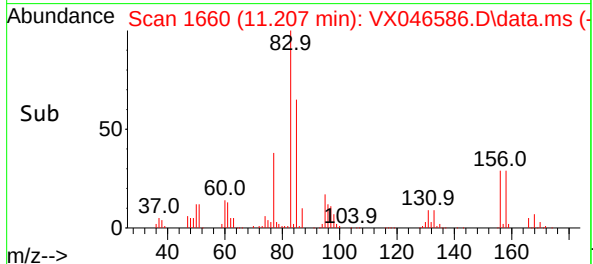
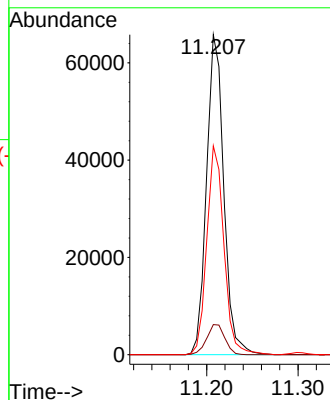
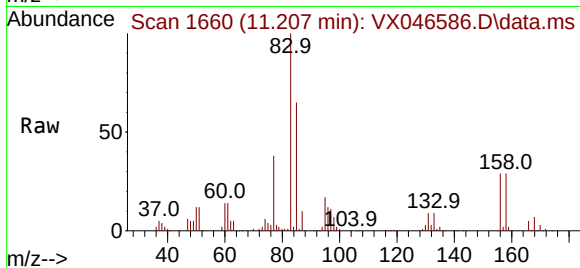
Tgt Ion:	83	Resp:	85869
Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.0	14.9
85	64.9	31.9	95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#76

1,2,3-Trichloropropane

Concen: 52.008 ug/l m

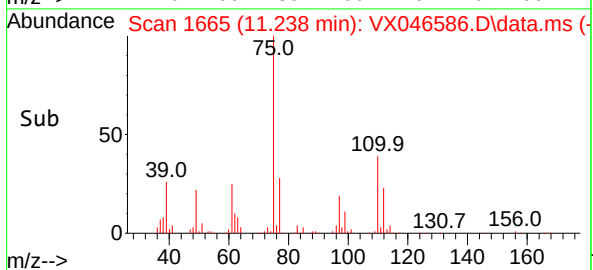
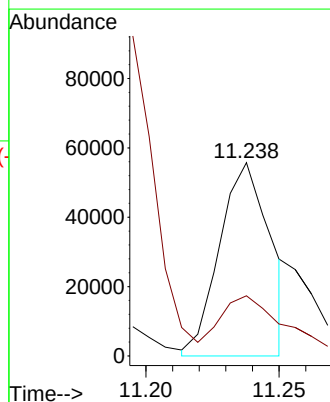
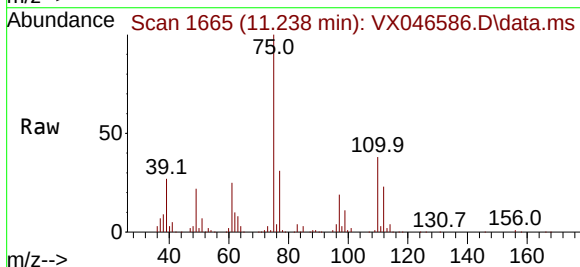
RT: 11.238 min Scan# 1665

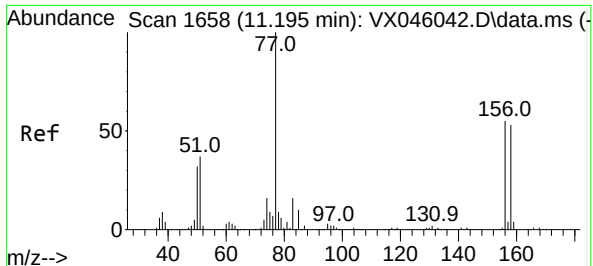
Delta R.T. -0.000 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

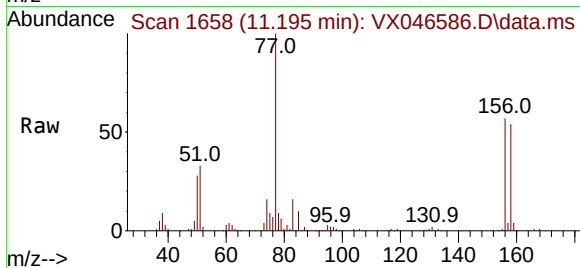
Tgt Ion:	75	Resp:	73742
Ion	Ratio	Lower	Upper
75	100		
77	40.6	20.5	61.5





#77
Bromobenzene
Concen: 55.440 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

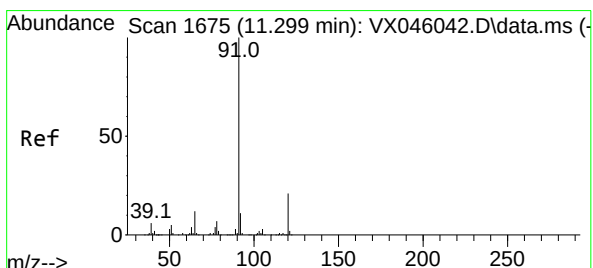
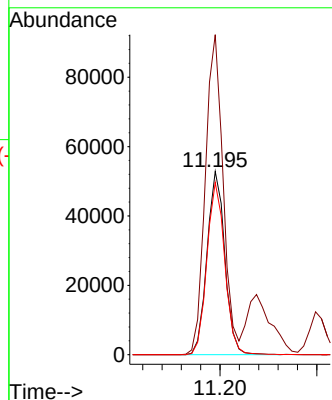
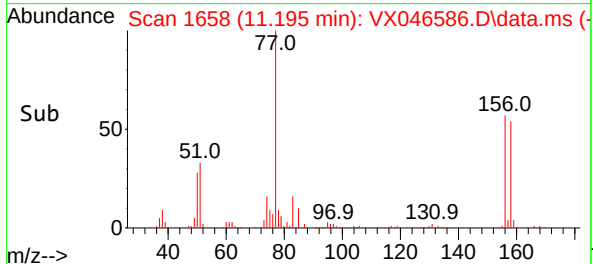
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:156 Resp: 67715
Ion Ratio Lower Upper
156 100
77 174.3 92.8 278.3
158 94.6 48.8 146.3

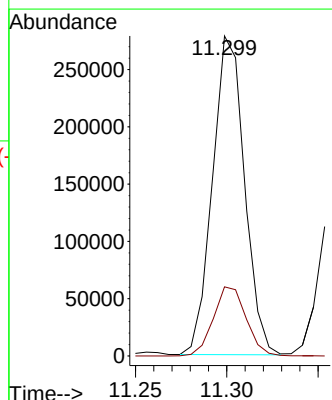
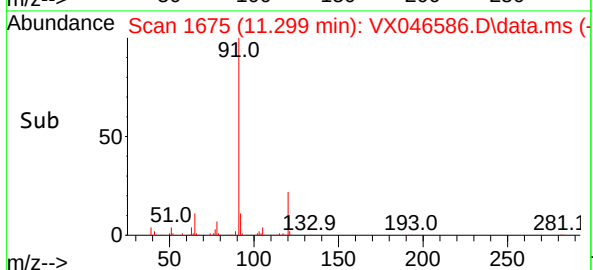
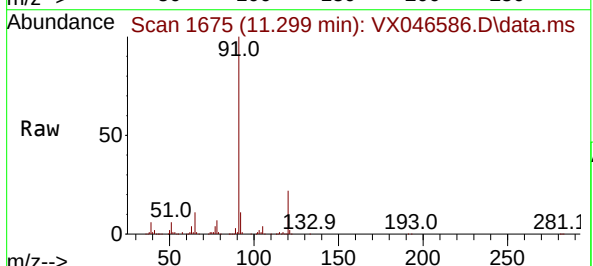
Manual Integrations
APPROVED

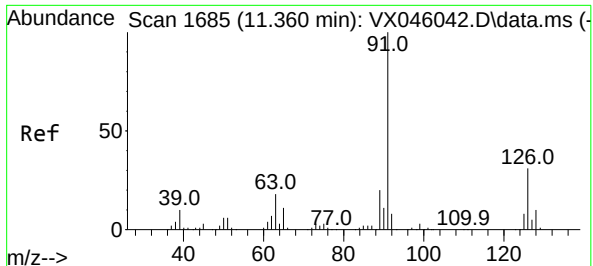
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#78
n-propylbenzene
Concen: 53.299 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

Tgt Ion: 91 Resp: 339470
Ion Ratio Lower Upper
91 100
120 22.3 10.8 32.4





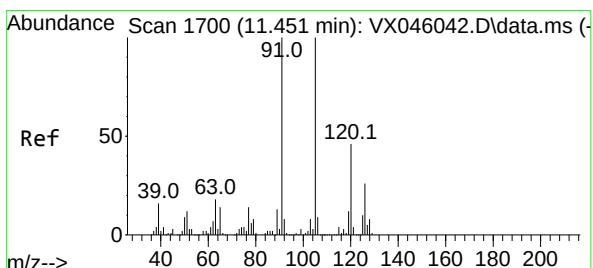
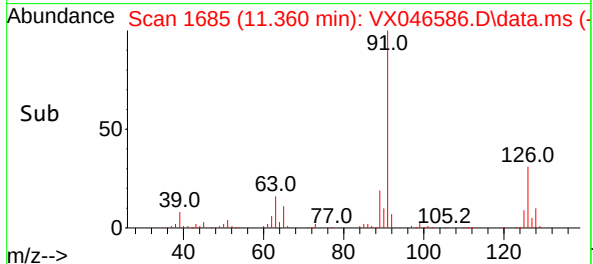
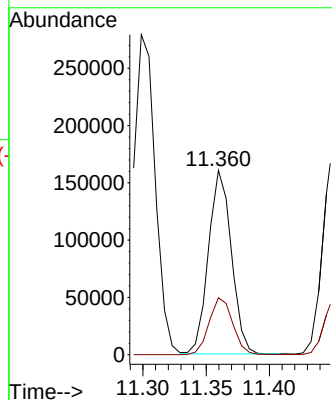
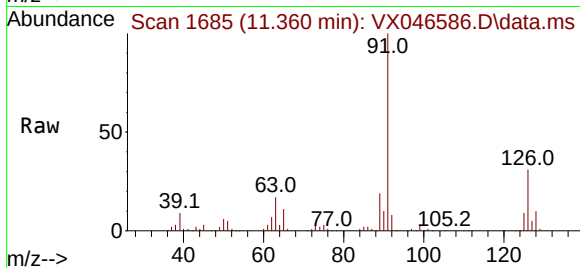
#79
2-Chlorotoluene
Concen: 52.688 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. -0.006 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 202364
Ion Ratio Lower Upper
91 100
126 31.9 15.6 46.7

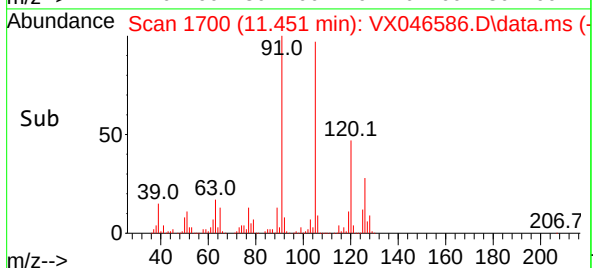
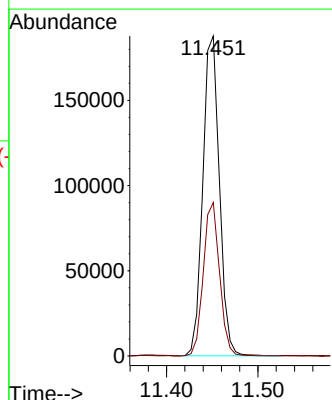
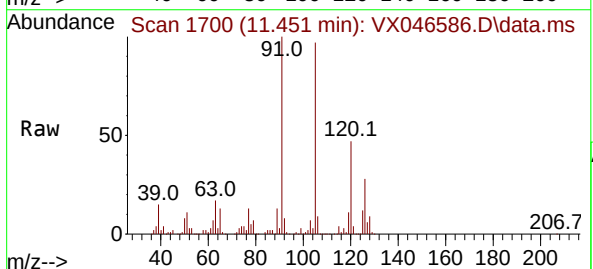
Manual Integrations
APPROVED

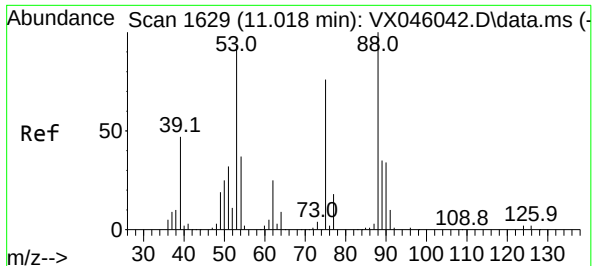
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#80
1,3,5-Trimethylbenzene
Concen: 53.827 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

Tgt Ion:105 Resp: 236032
Ion Ratio Lower Upper
105 100
120 47.0 23.1 69.2





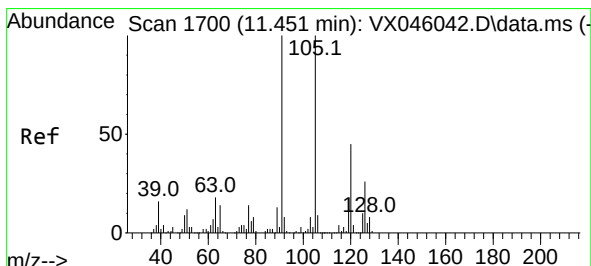
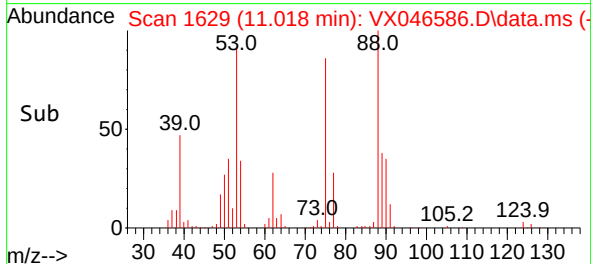
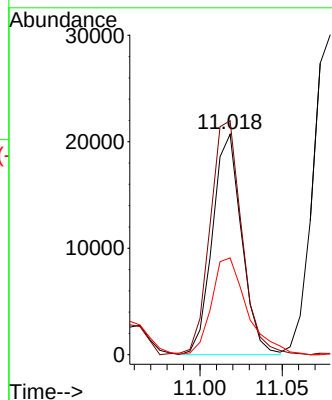
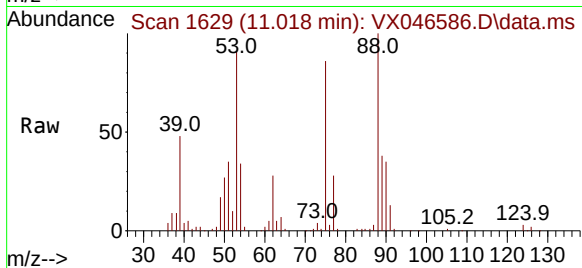
#81
trans-1,4-Dichloro-2-butene
Concen: 52.271 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 2569
Ion Ratio Lower Upper
75 100
53 114.5 100.5 150.7
89 53.2 37.0 55.6

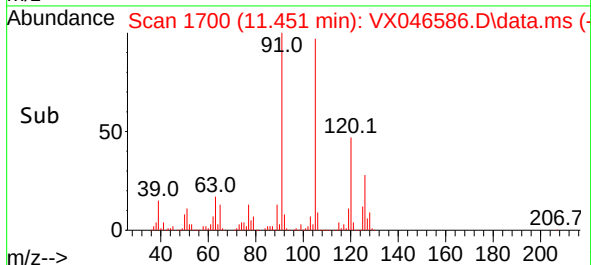
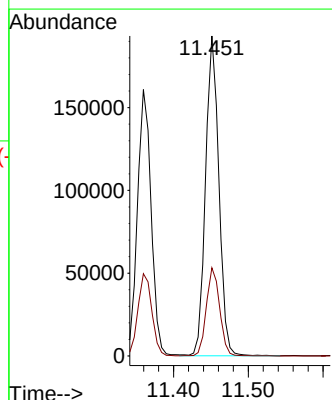
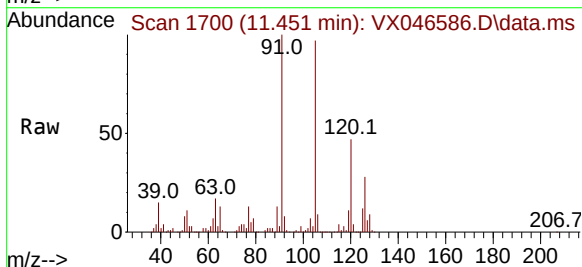
Manual Integrations
APPROVED

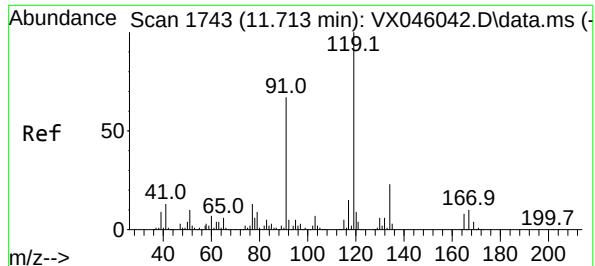
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#82
4-Chlorotoluene
Concen: 52.538 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

Tgt Ion: 91 Resp: 239181
Ion Ratio Lower Upper
91 100
126 27.6 13.3 39.8





#83

tert-Butylbenzene

Concen: 54.234 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 242094

Ion Ratio Lower Upper

119 100

91 61.0 32.9 98.7

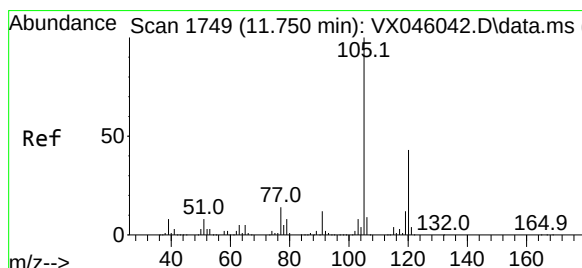
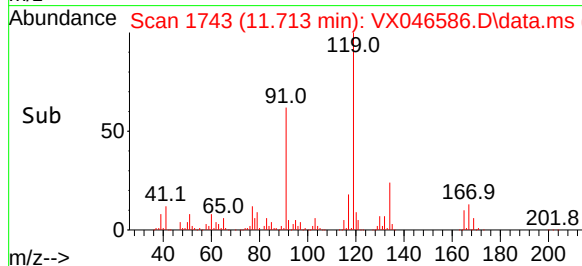
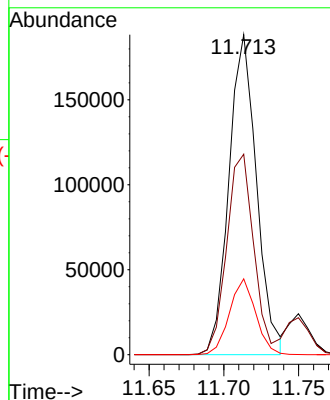
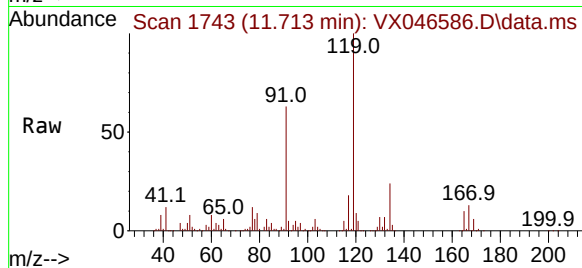
134 22.5 11.4 34.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#84

1,2,4-Trimethylbenzene

Concen: 52.794 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX046586.D

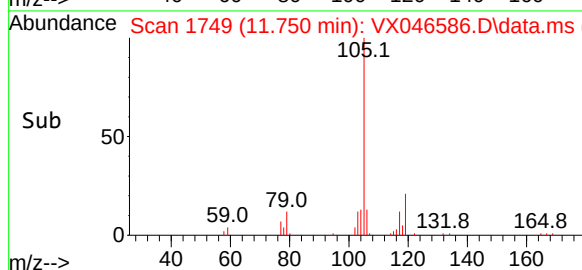
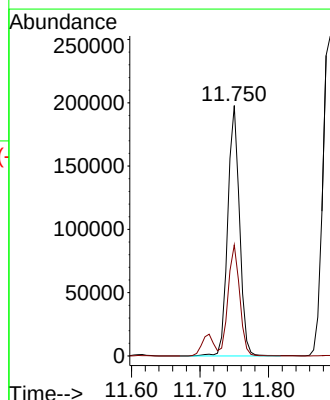
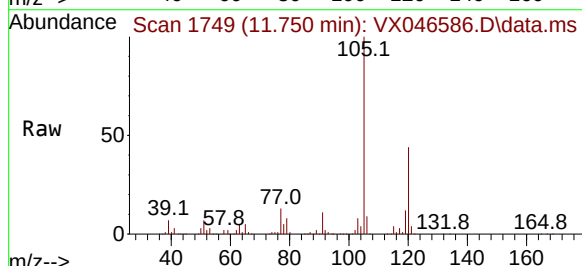
Acq: 10 Jun 2025 09:07

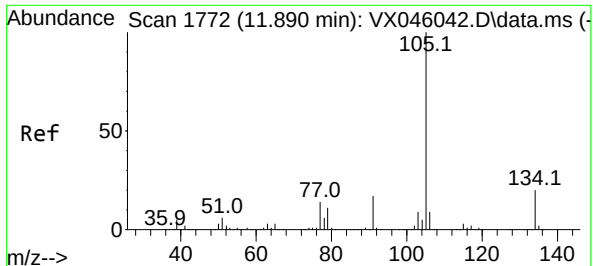
Tgt Ion:105 Resp: 234197

Ion Ratio Lower Upper

105 100

120 43.9 21.2 63.6





#85

sec-Butylbenzene

Concen: 53.081 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 304462

Ion Ratio Lower Upper

105 100

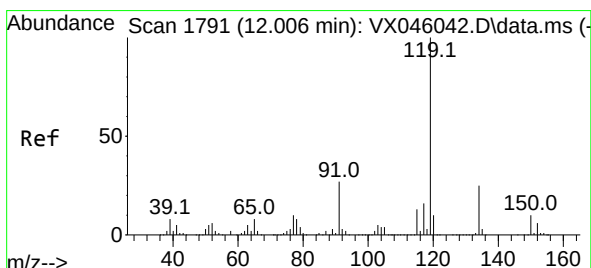
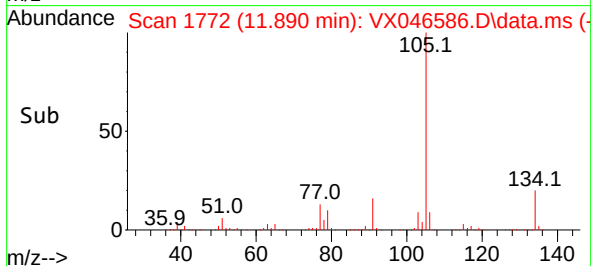
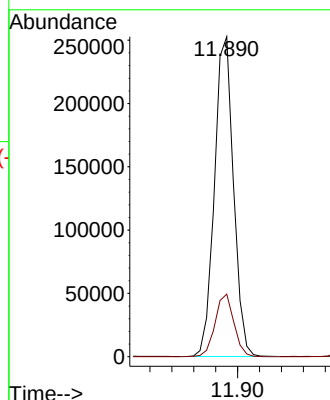
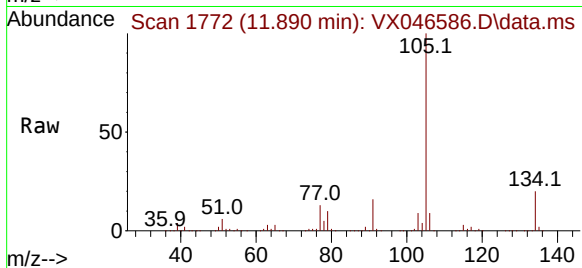
134 19.4 9.7 29.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#86

p-Isopropyltoluene

Concen: 52.834 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

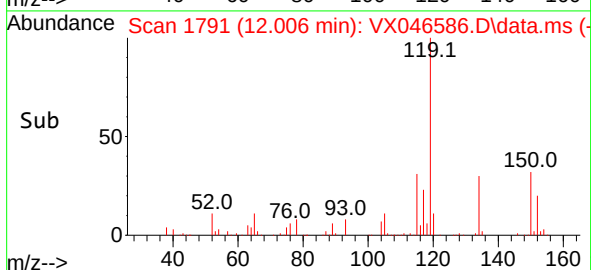
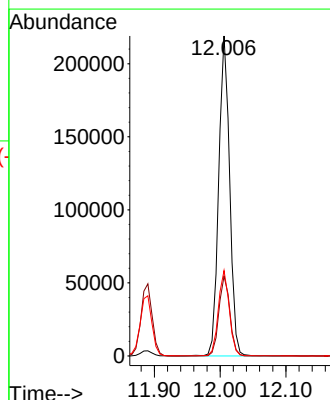
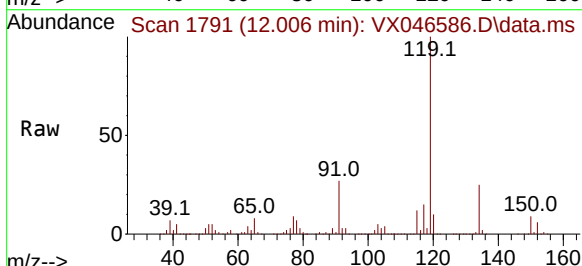
Tgt Ion:119 Resp: 252631

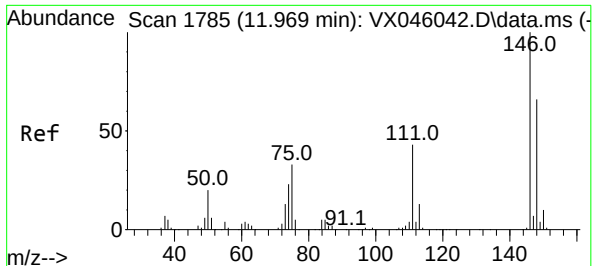
Ion Ratio Lower Upper

119 100

134 25.0 12.5 37.5

91 26.5 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 52.534 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 124600

Ion Ratio Lower Upper

146 100

111 43.9 22.1 66.3

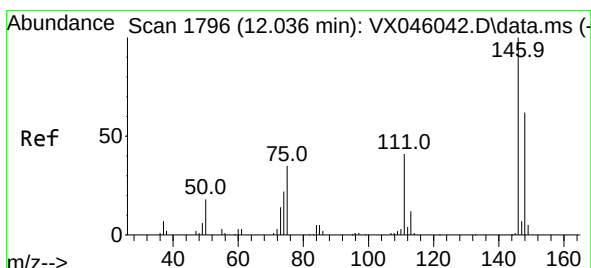
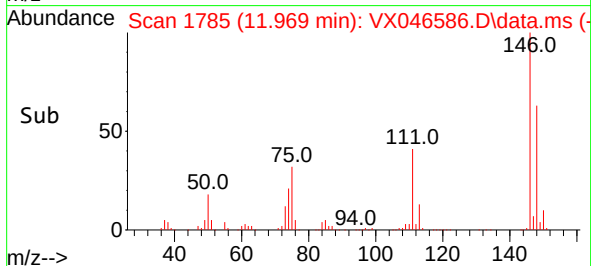
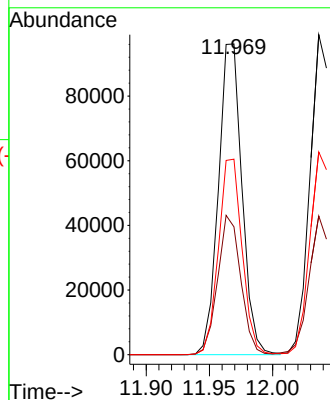
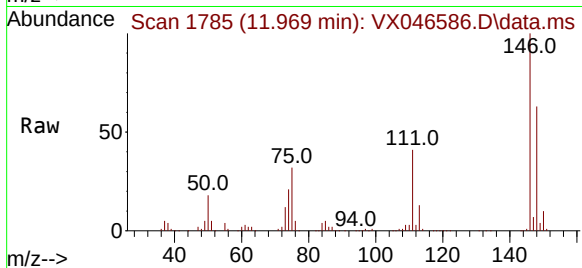
148 63.0 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#88

1,4-Dichlorobenzene

Concen: 50.367 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. -0.006 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

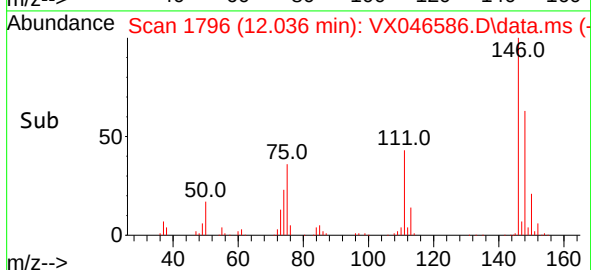
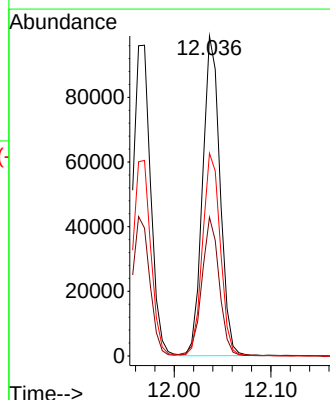
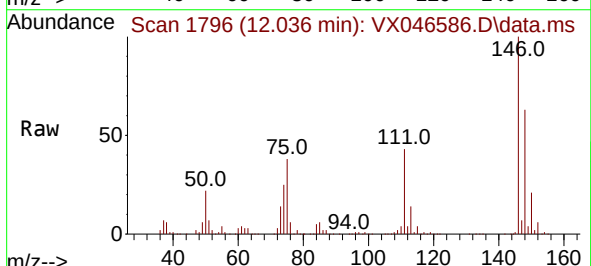
Tgt Ion:146 Resp: 123785

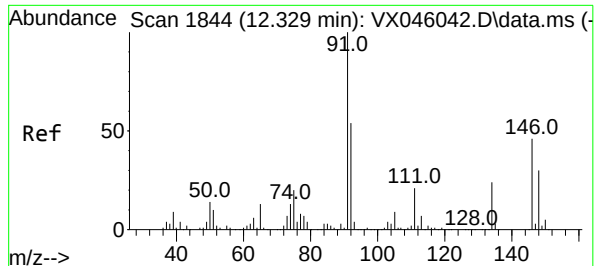
Ion Ratio Lower Upper

146 100

111 43.0 21.3 63.9

148 64.9 31.9 95.5





#89

n-Butylbenzene

Concen: 52.356 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046586.D

Acq: 10 Jun 2025 09:07

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 24585

Ion Ratio Lower Upper

91 100

92 53.8 26.9 80.7

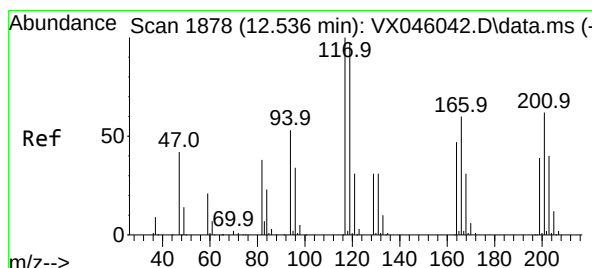
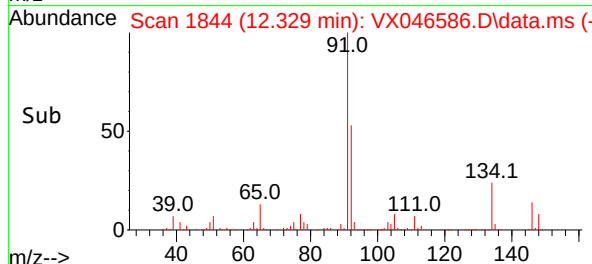
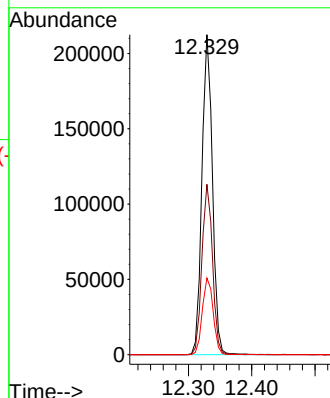
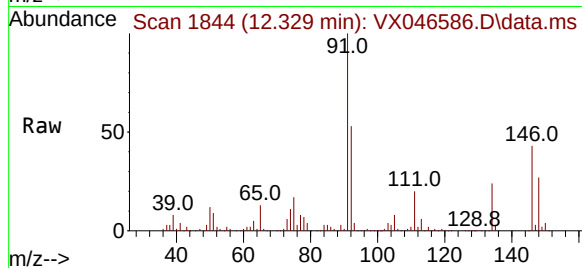
134 24.8 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#90

Hexachloroethane

Concen: 53.532 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046586.D

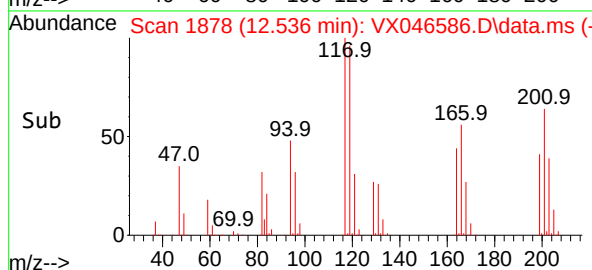
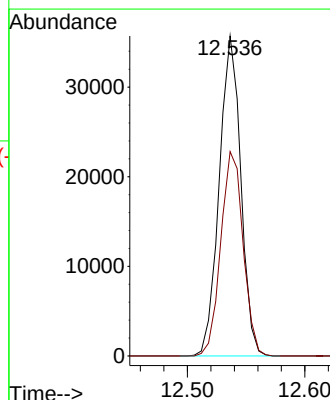
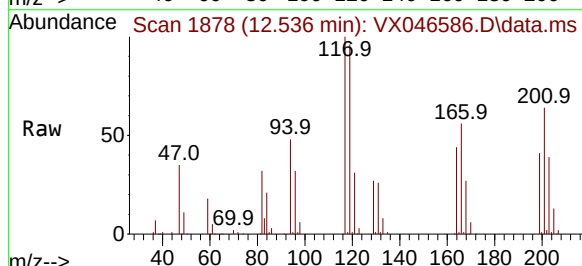
Acq: 10 Jun 2025 09:07

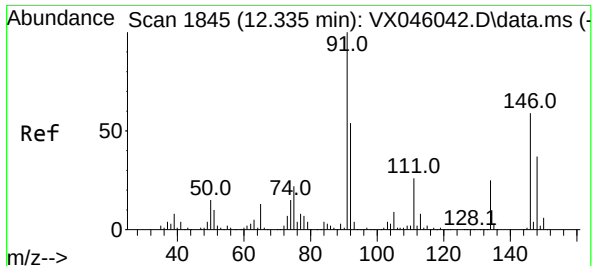
Tgt Ion:117 Resp: 45495

Ion Ratio Lower Upper

117 100

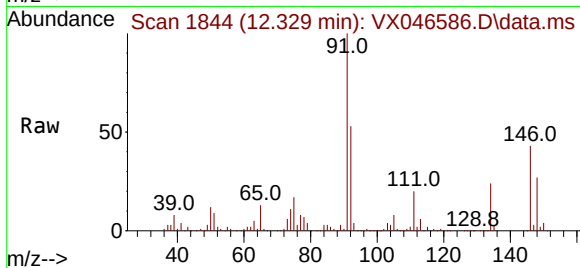
201 66.3 31.6 94.7





#91
1,2-Dichlorobenzene
Concen: 53.144 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. -0.006 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

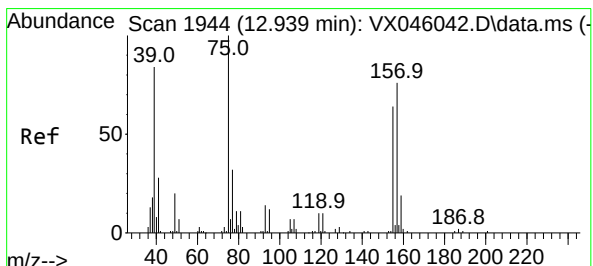
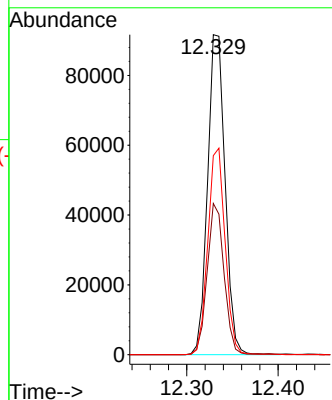
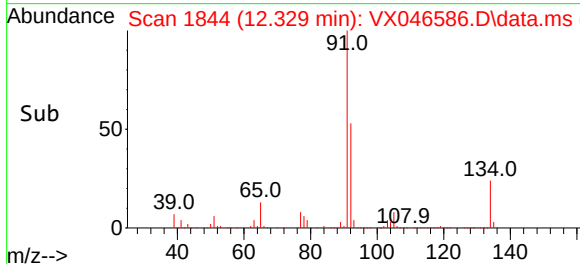
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



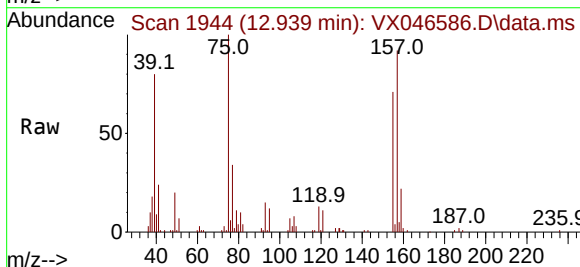
Tgt Ion:146 Resp: 121670
Ion Ratio Lower Upper
146 100
111 45.6 22.4 67.3
148 63.8 31.6 94.8

Manual Integrations
APPROVED

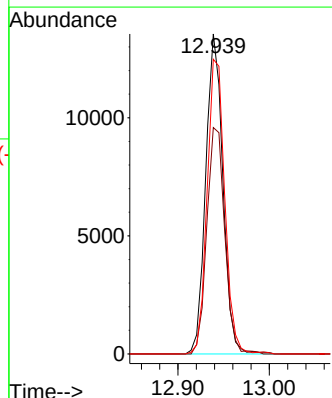
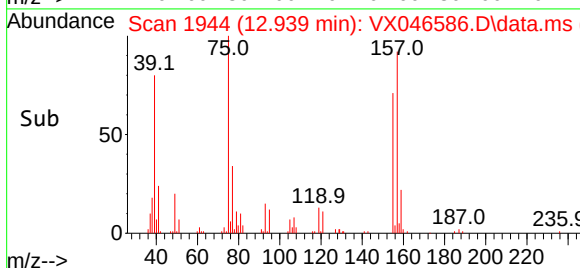
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

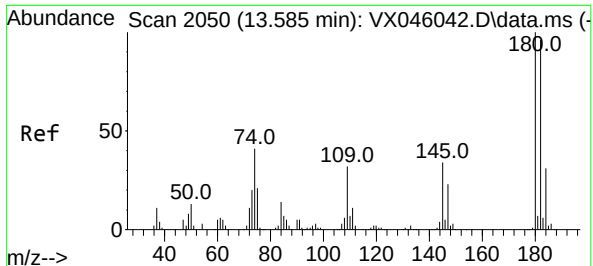


#92
1,2-Dibromo-3-Chloropropane
Concen: 46.795 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07



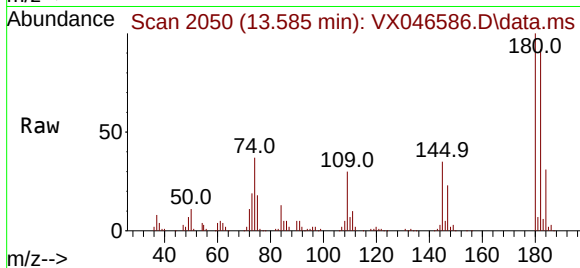
Tgt Ion: 75 Resp: 17650
Ion Ratio Lower Upper
75 100
155 73.9 34.9 104.8
157 94.4 43.8 131.4





#93
1,2,4-Trichlorobenzene
Concen: 52.365 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

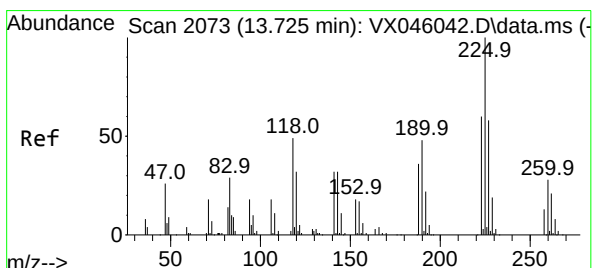
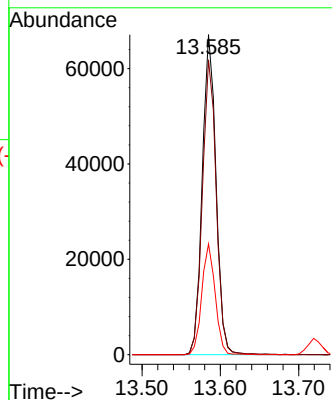
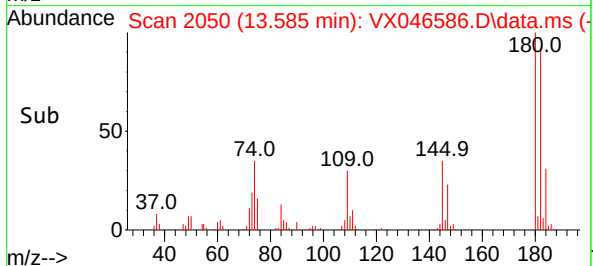
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



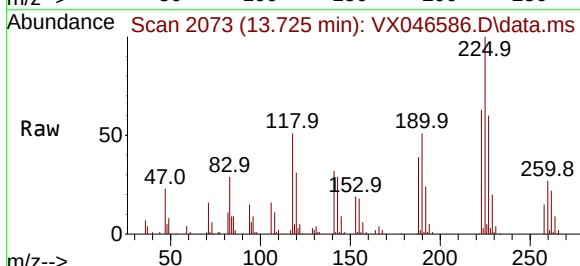
Tgt Ion:180 Resp: 8178
Ion Ratio Lower Upper
180 100
182 92.9 47.9 143.8
145 33.7 17.1 51.2

Manual Integrations
APPROVED

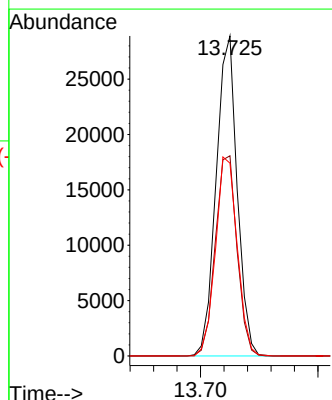
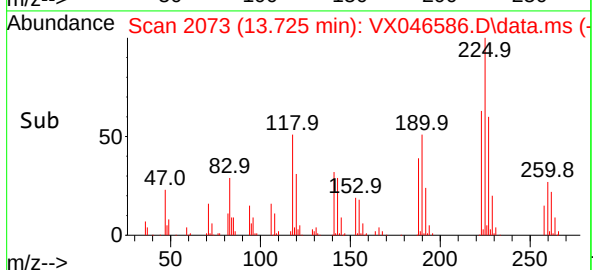
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

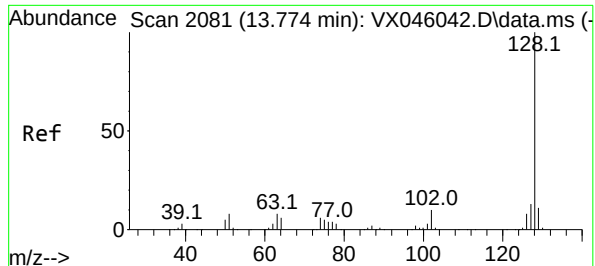


#94
Hexachlorobutadiene
Concen: 49.518 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07



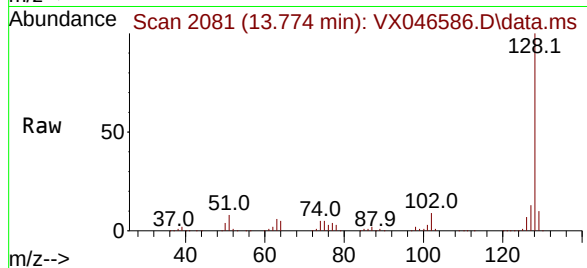
Tgt Ion:225 Resp: 35940
Ion Ratio Lower Upper
225 100
223 64.5 30.8 92.4
227 64.4 30.9 92.7





#95
Naphthalene
Concen: 50.687 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07

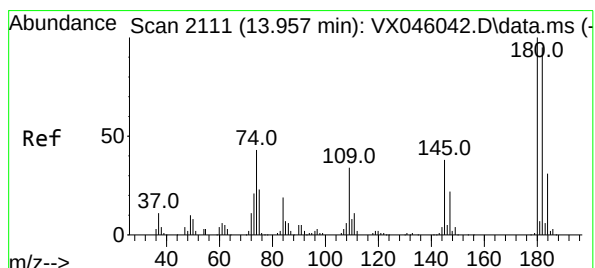
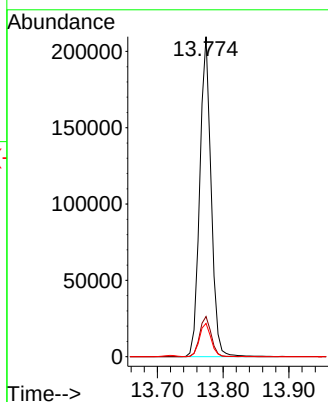
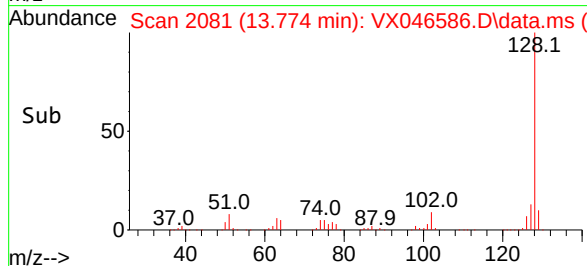
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



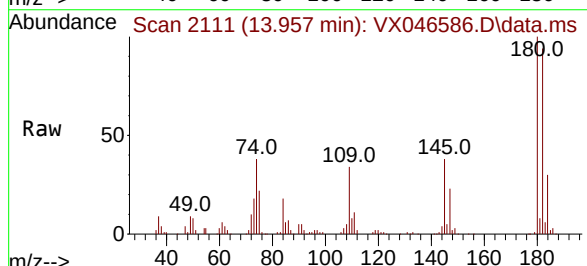
Tgt Ion:128 Resp: 251030
Ion Ratio Lower Upper
128 100
127 12.9 10.4 15.6
129 10.7 8.6 13.0

Manual Integrations
APPROVED

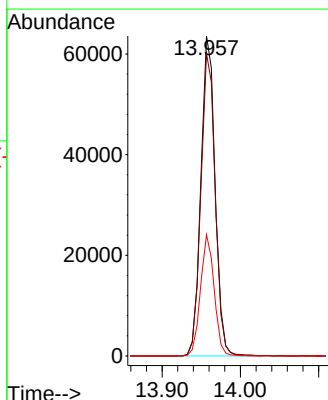
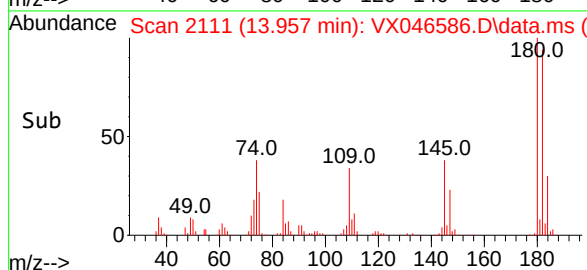
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.096 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046586.D
Acq: 10 Jun 2025 09:07



Tgt Ion:180 Resp: 80018
Ion Ratio Lower Upper
180 100
182 95.3 47.8 143.3
145 36.4 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046586.D
Acq On : 10 Jun 2025 09:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jun 11 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	101	-0.01
2 T	Dichlorodifluoromethane	0.694	0.705	-1.6	110	0.00
3 P	Chloromethane	0.632	0.622	1.6	109	0.00
4 C	Vinyl Chloride	0.630	0.640	-1.6#	108	0.00
5 T	Bromomethane	0.382	0.358	6.3	91	0.00
6 T	Chloroethane	0.409	0.355	13.2	96	0.00
7 T	Trichlorofluoromethane	1.042	0.998	4.2	98	0.00
8 T	Diethyl Ether	0.368	0.349	5.2	99	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	0.657	0.667	-1.5	105	0.00
10 T	Methyl Iodide	0.712	0.812	-14.0	114	0.00
11 T	Tert butyl alcohol	0.099	0.069	30.3#	71	-0.01
12 CM	1,1-Dichloroethene	0.594	0.603	-1.5#	107	0.00
13 T	Acrolein	0.103	0.102	1.0	91	0.00
14 T	Allyl chloride	1.166	1.099	5.7	98	0.00
15 T	Acrylonitrile	0.373	0.340	8.8	90	-0.01
16 T	Acetone	0.381	0.277	27.3#	82	0.00
17 T	Carbon Disulfide	1.481	1.255	15.3	104	0.00
18 T	Methyl Acetate	1.060	0.972	8.3	87	-0.01
19 T	Methyl tert-butyl Ether	2.077	2.101	-1.2	100	-0.01
20 T	Methylene Chloride	0.714	0.697	2.4	106	0.00
21 T	trans-1,2-Dichloroethene	0.628	0.622	1.0	108	0.00
22 T	Diisopropyl ether	2.298	2.402	-4.5	103	-0.02
23 T	Vinyl Acetate	1.775	1.746	1.6	96	-0.01
24 P	1,1-Dichloroethane	1.281	1.282	-0.1	103	0.00
25 T	2-Butanone	0.495	0.423	14.5	85	-0.02
26 T	2,2-Dichloropropane	0.951	1.067	-12.2	111	-0.01
27 T	cis-1,2-Dichloroethene	0.773	0.814	-5.3	111	-0.01
28 T	Bromochloromethane	0.611	0.598	2.1	102	-0.01
29 T	Tetrahydrofuran	0.313	0.269	14.1	86	-0.01
30 C	Chloroform	1.342	1.437	-7.1#	110	-0.01
31 T	Cyclohexane	1.034	1.054	-1.9	107	-0.01
32 T	1,1,1-Trichloroethane	1.148	1.224	-6.6	108	0.00
33 S	1,2-Dichloroethane-d4	0.890	0.757	14.9	87	-0.01
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	-0.01
35 S	Dibromofluoromethane	0.368	0.360	2.2	94	-0.02
36 T	1,1-Dichloropropene	0.525	0.536	-2.1	107	-0.02
37 T	Ethyl Acetate	0.513	0.524	-2.1	91	-0.01
38 T	Carbon Tetrachloride	0.588	0.632	-7.5	108	-0.01
39 T	Methylcyclohexane	0.620	0.630	-1.6	106	-0.01
40 TM	Benzene	1.479	1.615	-9.2	109	-0.02
41 T	Methacrylonitrile	0.318	0.327	-2.8	98	-0.02
42 TM	1,2-Dichloroethane	0.615	0.657	-6.8	104	-0.01
43 T	Isopropyl Acetate	0.894	0.871	2.6	91	-0.01
44 TM	Trichloroethene	0.376	0.395	-5.1	109	0.00
45 C	1,2-Dichloropropane	0.382	0.419	-9.7#	106	-0.01
46 T	Dibromomethane	0.287	0.303	-5.6	105	0.00
47 T	Bromodichloromethane	0.590	0.674	-14.2	108	0.00
48 T	Methyl methacrylate	0.460	0.454	1.3	91	-0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046586.D
Acq On : 10 Jun 2025 09:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jun 11 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	0.006	0.006	0.0	89	-0.02
50 S	Toluene-d8	1.212	1.152	5.0	93	0.00
51 T	4-Methyl-2-Pentanone	0.568	0.544	4.2	89	0.00
52 CM	Toluene	0.908	0.992	-9.3#	108	0.00
53 T	t-1,3-Dichloropropene	0.529	0.604	-14.2	108	0.00
54 T	cis-1,3-Dichloropropene	0.589	0.668	-13.4	109	0.00
55 T	1,1,2-Trichloroethane	0.365	0.402	-10.1	106	0.00
56 T	Ethyl methacrylate	0.561	0.602	-7.3	100	0.00
57 T	1,3-Dichloropropane	0.644	0.695	-7.9	105	0.00
58 T	2-Chloroethyl Vinyl ether	0.306	0.300	2.0	92	0.00
59 T	2-Hexanone	0.407	0.374	8.1	84	0.00
60 T	Dibromochloromethane	0.429	0.485	-13.1	108	0.00
61 T	1,2-Dibromoethane	0.380	0.395	-3.9	103	0.00
62 S	4-Bromofluorobenzene	0.502	0.468	6.8	92	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
64 T	Tetrachloroethene	0.334	0.336	-0.6	107	0.00
65 PM	Chlorobenzene	1.176	1.234	-4.9	108	0.00
66 T	1,1,1,2-Tetrachloroethane	0.397	0.448	-12.8	110	0.00
67 C	Ethyl Benzene	2.053	2.179	-6.1#	107	0.00
68 T	m/p-Xylenes	0.745	0.802	-7.7	107	0.00
69 T	o-Xylene	0.720	0.775	-7.6	107	0.00
70 T	Styrene	1.233	1.384	-12.2	109	0.00
71 P	Bromoform	0.303	0.337	-11.2	107	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
73 T	Isopropylbenzene	3.930	4.253	-8.2	106	0.00
74 T	N-amyl acetate	1.731	1.704	1.6	92	0.00
75 P	1,1,2,2-Tetrachloroethane	1.258	1.283	-2.0	99	0.00
76 T	1,2,3-Trichloropropane	1.059	1.102	-4.1	102	0.00
77 T	Bromobenzene	0.912	1.012	-11.0	112	0.00
78 T	n-propylbenzene	4.757	5.071	-6.6	105	0.00
79 T	2-Chlorotoluene	2.869	3.023	-5.4	106	0.00
80 T	1,3,5-Trimethylbenzene	3.275	3.526	-7.7	106	0.00
81 T	trans-1,4-Dichloro-2-butene	0.367	0.384	-4.6	101	0.00
82 T	4-Chlorotoluene	3.400	3.573	-5.1	106	0.00
83 T	tert-Butylbenzene	3.334	3.617	-8.5	107	0.00
84 T	1,2,4-Trimethylbenzene	3.313	3.499	-5.6	105	0.00
85 T	sec-Butylbenzene	4.284	4.548	-6.2	106	0.00
86 T	p-Isopropyltoluene	3.572	3.774	-5.7	105	0.00
87 T	1,3-Dichlorobenzene	1.772	1.861	-5.0	108	0.00
88 T	1,4-Dichlorobenzene	1.836	1.849	-0.7	107	0.00
89 T	n-Butylbenzene	3.507	3.673	-4.7	107	0.00
90 T	Hexachloroethane	0.635	0.680	-7.1	108	0.00
91 T	1,2-Dichlorobenzene	1.710	1.818	-6.3	108	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.282	0.264	6.4	90	0.00
93 T	1,2,4-Trichlorobenzene	1.167	1.222	-4.7	110	0.00
94 T	Hexachlorobutadiene	0.542	0.537	0.9	104	0.00
95 T	Naphthalene	3.699	3.750	-1.4	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046586.D
Acq On : 10 Jun 2025 09:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jun 11 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	1.170	1.195	-2.1	106	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046586.D
Acq On : 10 Jun 2025 09:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jun 11 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	101	-0.01
2 T	Dichlorodifluoromethane	50.000	50.806	-1.6	110	0.00
3 P	Chloromethane	50.000	49.215	1.6	109	0.00
4 C	Vinyl Chloride	50.000	50.831	-1.7#	108	0.00
5 T	Bromomethane	50.000	46.823	6.4	91	0.00
6 T	Chloroethane	50.000	43.380	13.2	96	0.00
7 T	Trichlorofluoromethane	50.000	47.872	4.3	98	0.00
8 T	Diethyl Ether	50.000	47.456	5.1	99	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	50.000	50.805	-1.6	105	0.00
10 T	Methyl Iodide	50.000	57.012	-14.0	114	0.00
11 T	Tert butyl alcohol	250.000	175.393	29.8#	71	-0.01
12 CM	1,1-Dichloroethene	50.000	50.787	-1.6#	107	0.00
13 T	Acrolein	250.000	218.171	12.7	91	0.00
14 T	Allyl chloride	50.000	47.145	5.7	98	0.00
15 T	Acrylonitrile	250.000	227.796	8.9	90	-0.01
16 T	Acetone	250.000	198.999	20.4	82	0.00
17 T	Carbon Disulfide	50.000	49.803	0.4	104	0.00
18 T	Methyl Acetate	50.000	45.873	8.3	87	-0.01
19 T	Methyl tert-butyl Ether	50.000	50.563	-1.1	100	-0.01
20 T	Methylene Chloride	50.000	48.842	2.3	106	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.518	1.0	108	0.00
22 T	Diisopropyl ether	50.000	52.255	-4.5	103	-0.02
23 T	Vinyl Acetate	250.000	245.925	1.6	96	-0.01
24 P	1,1-Dichloroethane	50.000	50.040	-0.1	103	0.00
25 T	2-Butanone	250.000	213.467	14.6	85	-0.02
26 T	2,2-Dichloropropane	50.000	56.089	-12.2	111	-0.01
27 T	cis-1,2-Dichloroethene	50.000	52.640	-5.3	111	-0.01
28 T	Bromochloromethane	50.000	48.905	2.2	102	-0.01
29 T	Tetrahydrofuran	250.000	215.281	13.9	86	-0.01
30 C	Chloroform	50.000	53.531	-7.1#	110	-0.01
31 T	Cyclohexane	50.000	50.962	-1.9	107	-0.01
32 T	1,1,1-Trichloroethane	50.000	53.292	-6.6	108	0.00
33 S	1,2-Dichloroethane-d4	50.000	42.529	14.9	87	-0.01
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	96	-0.01
35 S	Dibromofluoromethane	50.000	48.920	2.2	94	-0.02
36 T	1,1-Dichloropropene	50.000	51.010	-2.0	107	-0.02
37 T	Ethyl Acetate	50.000	51.130	-2.3	91	-0.01
38 T	Carbon Tetrachloride	50.000	53.694	-7.4	108	-0.01
39 T	Methylcyclohexane	50.000	50.806	-1.6	106	-0.01
40 TM	Benzene	50.000	54.601	-9.2	109	-0.02
41 T	Methacrylonitrile	50.000	51.438	-2.9	98	-0.02
42 TM	1,2-Dichloroethane	50.000	53.402	-6.8	104	-0.01
43 T	Isopropyl Acetate	50.000	48.737	2.5	91	-0.01
44 TM	Trichloroethene	50.000	52.534	-5.1	109	0.00
45 C	1,2-Dichloropropane	50.000	54.858	-9.7#	106	-0.01
46 T	Dibromomethane	50.000	52.699	-5.4	105	0.00
47 T	Bromodichloromethane	50.000	57.103	-14.2	108	0.00
48 T	Methyl methacrylate	50.000	49.326	1.3	91	-0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046586.D
Acq On : 10 Jun 2025 09:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jun 11 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	952.914	4.7	89	-0.02
50 S	Toluene-d8	50.000	47.502	5.0	93	0.00
51 T	4-Methyl-2-Pentanone	250.000	239.572	4.2	89	0.00
52 CM	Toluene	50.000	54.605	-9.2#	108	0.00
53 T	t-1,3-Dichloropropene	50.000	57.101	-14.2	108	0.00
54 T	cis-1,3-Dichloropropene	50.000	56.746	-13.5	109	0.00
55 T	1,1,2-Trichloroethane	50.000	55.174	-10.3	106	0.00
56 T	Ethyl methacrylate	50.000	53.621	-7.2	100	0.00
57 T	1,3-Dichloropropane	50.000	53.935	-7.9	105	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	245.588	1.8	92	0.00
59 T	2-Hexanone	250.000	229.299	8.3	84	0.00
60 T	Dibromochloromethane	50.000	56.586	-13.2	108	0.00
61 T	1,2-Dibromoethane	50.000	51.925	-3.8	103	0.00
62 S	4-Bromofluorobenzene	50.000	46.644	6.7	92	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	99	0.00
64 T	Tetrachloroethene	50.000	50.206	-0.4	107	0.00
65 PM	Chlorobenzene	50.000	52.473	-4.9	108	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	56.356	-12.7	110	0.00
67 C	Ethyl Benzene	50.000	53.081	-6.2#	107	0.00
68 T	m/p-Xylenes	100.000	107.686	-7.7	107	0.00
69 T	o-Xylene	50.000	53.823	-7.6	107	0.00
70 T	Styrene	50.000	56.124	-12.2	109	0.00
71 P	Bromoform	50.000	55.623	-11.2	107	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	97	0.00
73 T	Isopropylbenzene	50.000	54.106	-8.2	106	0.00
74 T	N-amyl acetate	50.000	49.214	1.6	92	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	50.980	-2.0	99	0.00
76 T	1,2,3-Trichloropropane	50.000	52.008	-4.0	102	0.00
77 T	Bromobenzene	50.000	55.440	-10.9	112	0.00
78 T	n-propylbenzene	50.000	53.299	-6.6	105	0.00
79 T	2-Chlorotoluene	50.000	52.688	-5.4	106	0.00
80 T	1,3,5-Trimethylbenzene	50.000	53.827	-7.7	106	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.271	-4.5	101	0.00
82 T	4-Chlorotoluene	50.000	52.538	-5.1	106	0.00
83 T	tert-Butylbenzene	50.000	54.234	-8.5	107	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.794	-5.6	105	0.00
85 T	sec-Butylbenzene	50.000	53.081	-6.2	106	0.00
86 T	p-Isopropyltoluene	50.000	52.834	-5.7	105	0.00
87 T	1,3-Dichlorobenzene	50.000	52.534	-5.1	108	0.00
88 T	1,4-Dichlorobenzene	50.000	50.367	-0.7	107	0.00
89 T	n-Butylbenzene	50.000	52.356	-4.7	107	0.00
90 T	Hexachloroethane	50.000	53.532	-7.1	108	0.00
91 T	1,2-Dichlorobenzene	50.000	53.144	-6.3	108	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	46.795	6.4	90	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.365	-4.7	110	0.00
94 T	Hexachlorobutadiene	50.000	49.518	1.0	104	0.00
95 T	Naphthalene	50.000	50.687	-1.4	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046586.D
Acq On : 10 Jun 2025 09:07
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jun 11 01:40:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.096	-2.2	106	0.00

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



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: CAMP02

Lab Code: CHEM Case No.: Q2230 SAS No.: Q2230 SDG No.: Q2230

Instrument ID: MSVOA_X Calibration Date/Time: 06/11/2025 14:46

Lab File ID: VX046636.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:42 12:57

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Benzene	1.479	1.534		3.72	20
Toluene	0.908	0.958		5.51	20
Ethyl Benzene	2.053	2.124		3.46	20
m/p-Xylenes	0.745	0.792		6.31	20
o-Xylene	0.720	0.786		9.17	20
Isopropylbenzene	3.930	4.163		5.93	20
n-propylbenzene	4.757	4.937		3.78	20
1,3,5-Trimethylbenzene	3.275	3.443		5.13	20
tert-Butylbenzene	3.334	3.554		6.6	20
1,2,4-Trimethylbenzene	3.313	3.476		4.92	20
sec-Butylbenzene	4.284	4.505		5.16	20
p-Isopropyltoluene	3.572	3.722		4.2	20
n-Butylbenzene	3.507	3.559		1.48	20
1,2-Dichloroethane-d4	0.890	0.830		-6.74	20
Dibromofluoromethane	0.368	0.382		3.8	20
Toluene-d8	1.212	1.219		0.58	20
4-Bromofluorobenzene	0.502	0.503		0.2	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\VX061125\
 Data File : VX046636.D
 Acq On : 11 Jun 2025 14:46
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Mahesh Dadoda 06/12/2025

Quant Time: Jun 12 02:28:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	77468	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	133266	50.000	ug/l	-0.01
63) Chlorobenzene-d5	10.055	117	119186	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	60295	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.958	65	64299	46.653	ug/l	-0.01
Spiked Amount	50.000	Range	74 - 125	Recovery	= 93.300%	
35) Dibromofluoromethane	5.391	113	50878	51.915	ug/l	-0.01
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.820%	
50) Toluene-d8	8.646	98	162512	50.297	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.600%	
62) 4-Bromofluorobenzene	11.079	95	67056	50.160	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 100.320%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.178	85	49618	46.135	ug/l	97
3) Chloromethane	1.306	50	42847	43.769	ug/l	100
4) Vinyl Chloride	1.386	62	44081	45.171	ug/l	99
5) Bromomethane	1.617	94	16571	27.971	ug/l	96
6) Chloroethane	1.697	64	25610m	40.448	ug/l	
7) Trichlorofluoromethane	1.904	101	68961	42.711	ug/l	98
8) Diethyl Ether	2.142	74	25706	45.060	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.343	101	51679	50.803	ug/l	95
10) Methyl Iodide	2.465	142	44208	40.090	ug/l	97
11) Tert butyl alcohol	2.965	59	33784	220.908	ug/l	99
12) 1,1-Dichloroethene	2.331	96	46167	50.196	ug/l	94
13) Acrolein	2.245	56	60539	318.023	ug/l	100
14) Allyl chloride	2.678	41	91197	50.488	ug/l	93
15) Acrylonitrile	3.068	53	150410	260.120	ug/l	99
16) Acetone	2.385	43	129583	239.623	ug/l	96
17) Carbon Disulfide	2.526	76	94127	48.207	ug/l	100
18) Methyl Acetate	2.715	43	90756	55.283	ug/l	98
19) Methyl tert-butyl Ether	3.123	73	173499	53.911	ug/l	98
20) Methylene Chloride	2.800	84	55439	50.139	ug/l	93
21) trans-1,2-Dichloroethene	3.105	96	48350	49.675	ug/l	94
22) Diisopropyl ether	3.769	45	191676	53.823	ug/l #	80
23) Vinyl Acetate	3.727	43	730658	265.747	ug/l	100
24) 1,1-Dichloroethane	3.617	63	102645	51.716	ug/l	99
25) 2-Butanone	4.562	43	188260	245.374	ug/l	97
26) 2,2-Dichloropropane	4.489	77	76522	51.935	ug/l	98
27) cis-1,2-Dichloroethene	4.495	96	61869	51.635	ug/l	96
28) Bromochloromethane	4.903	49	44054	46.537	ug/l	98
29) Tetrahydrofuran	5.013	42	116765	240.984	ug/l	98
30) Chloroform	5.098	83	111101	53.424	ug/l	96
31) Cyclohexane	5.476	56	79044	49.332	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	91912	51.668	ug/l	97
36) 1,1-Dichloropropene	5.696	75	66719	47.660	ug/l	98
37) Ethyl Acetate	4.714	43	72822	53.299	ug/l	99
38) Carbon Tetrachloride	5.684	117	77120	49.184	ug/l	99
39) Methylcyclohexane	7.385	83	79500	48.113	ug/l	97
40) Benzene	6.043	78	204444	51.876	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
 Data File : VX046636.D
 Acq On : 11 Jun 2025 14:46
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Mahesh Dadoda 06/12/2025

Quant Time: Jun 12 02:28:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	43728	51.538	ug/l	94
42) 1,2-Dichloroethane	6.092	62	82805	50.505	ug/l	97
43) Isopropyl Acetate	6.342	43	123122	51.690	ug/l	98
44) Trichloroethene	7.128	130	50564	50.496	ug/l	98
45) 1,2-Dichloropropane	7.427	63	54805	53.877	ug/l	95
46) Dibromomethane	7.580	93	39795	52.002	ug/l	97
47) Bromodichloromethane	7.823	83	86170	54.764	ug/l	100
48) Methyl methacrylate	7.689	41	64491	52.623	ug/l	95
49) 1,4-Dioxane	7.659	88	15347	936.440	ug/l	98
51) 4-Methyl-2-Pentanone	8.573	43	399573	263.985	ug/l	99
52) Toluene	8.720	92	127673	52.732	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	76825	54.455	ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	83927	53.504	ug/l	89
55) 1,1,2-Trichloroethane	9.152	97	53767	55.318	ug/l	98
56) Ethyl methacrylate	9.116	69	83775	56.009	ug/l	93
57) 1,3-Dichloropropane	9.305	76	90043	52.422	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	212181	260.437	ug/l	99
59) 2-Hexanone	9.427	43	281354	259.182	ug/l	97
60) Dibromochloromethane	9.518	129	62938	55.050	ug/l	99
61) 1,2-Dibromoethane	9.610	107	52759	52.090	ug/l	97
64) Tetrachloroethene	9.274	164	39385	49.417	ug/l	94
65) Chlorobenzene	10.079	112	145707	51.980	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.158	131	52286	55.199	ug/l	100
67) Ethyl Benzene	10.195	91	253115	51.724	ug/l	98
68) m/p-Xylenes	10.299	106	188777	106.345	ug/l	98
69) o-Xylene	10.640	106	93646	54.541	ug/l	96
70) Styrene	10.652	104	161841	55.064	ug/l	98
71) Bromoform	10.799	173	39565	54.781	ug/l #	97
73) Isopropylbenzene	10.963	105	251010	52.958	ug/l	99
74) N-amyl acetate	10.841	43	110680	53.026	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	79466	52.379	ug/l	99
76) 1,2,3-Trichloropropane	11.237	75	65783m	51.509	ug/l	
77) Bromobenzene	11.195	156	57859	52.592	ug/l	96
78) n-propylbenzene	11.305	91	297656	51.885	ug/l	99
79) 2-Chlorotoluene	11.359	91	178117	51.487	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	207616	52.565	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	22961	51.862	ug/l	93
82) 4-Chlorotoluene	11.451	91	208757	50.910	ug/l	96
83) tert-Butylbenzene	11.713	119	214284	53.295	ug/l	96
84) 1,2,4-Trimethylbenzene	11.750	105	209586	52.454	ug/l	98
85) sec-Butylbenzene	11.890	105	271607	52.573	ug/l	100
86) p-Isopropyltoluene	12.006	119	224421	52.107	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	111561	52.221	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	113744	51.383	ug/l	99
89) n-Butylbenzene	12.329	91	214617	50.742	ug/l	98
90) Hexachloroethane	12.536	117	38889	50.802	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	108055	52.399	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	16953	49.901	ug/l	93
93) 1,2,4-Trichlorobenzene	13.585	180	73786	52.453	ug/l	99
94) Hexachlorobutadiene	13.725	225	30729	47.005	ug/l	98
95) Naphthalene	13.774	128	239917	53.781	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	72019	51.057	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046636.D
Acq On : 11 Jun 2025 14:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 12 02:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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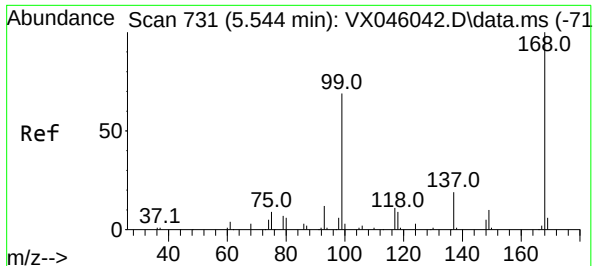
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

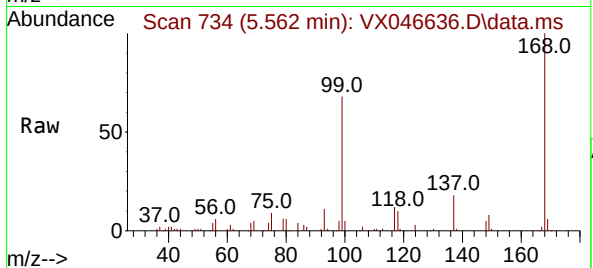
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

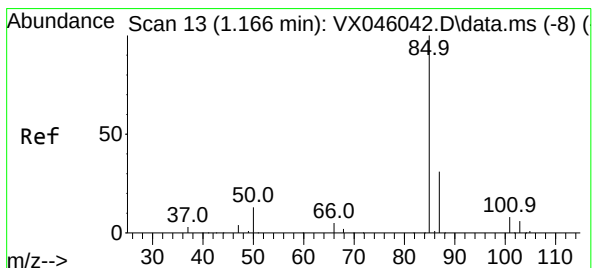
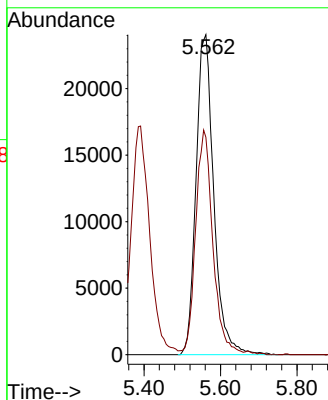
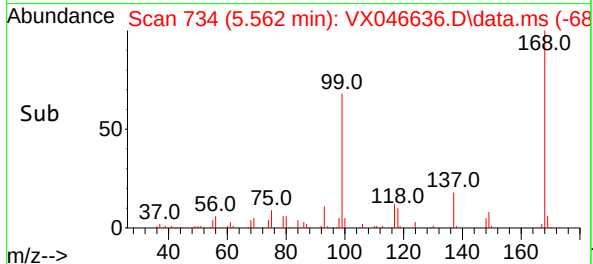
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:168 Resp: 77468
Ion Ratio Lower Upper
168 100
99 67.9 54.9 82.3

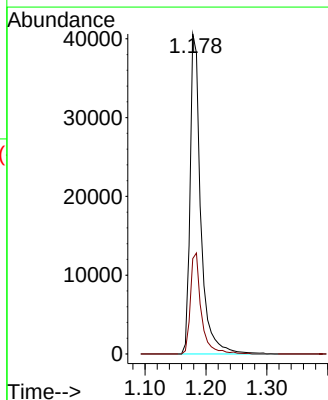
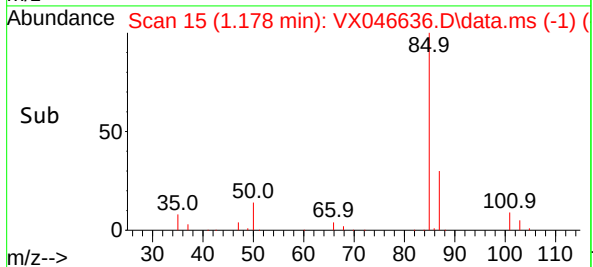
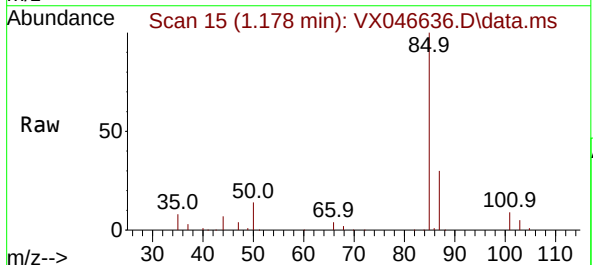
Manual Integrations
APPROVED

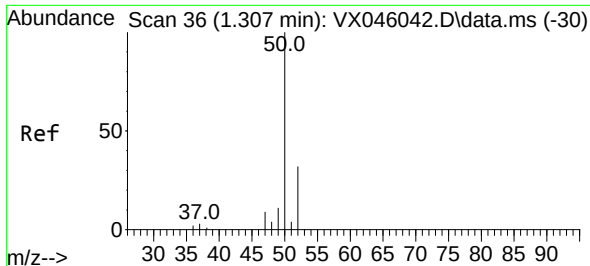
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#2
Dichlorodifluoromethane
Concen: 46.135 ug/l
RT: 1.178 min Scan# 15
Delta R.T. -0.007 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion: 85 Resp: 49618
Ion Ratio Lower Upper
85 100
87 29.8 15.7 47.1





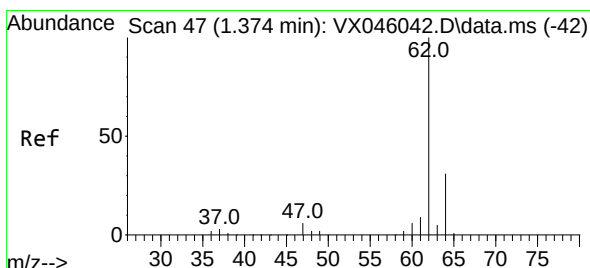
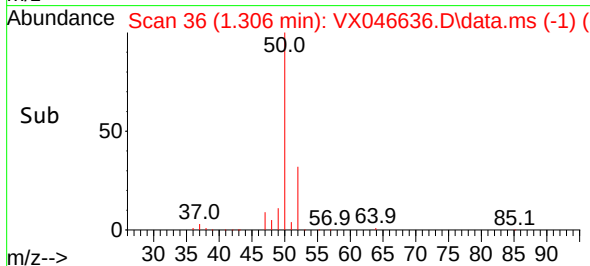
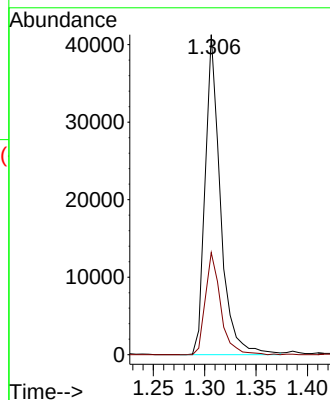
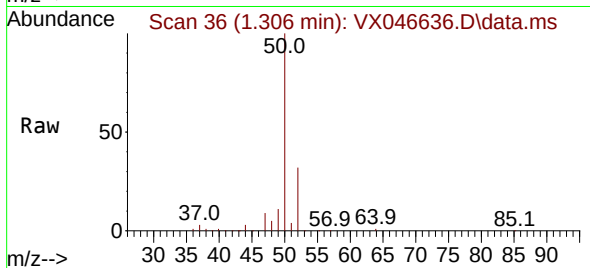
#3
Chloromethane
Concen: 43.769 ug/l
RT: 1.306 min Scan# 30
Delta R.T. -0.001 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 4284
Ion Ratio Lower Upper
50 100
52 31.9 25.4 38.2

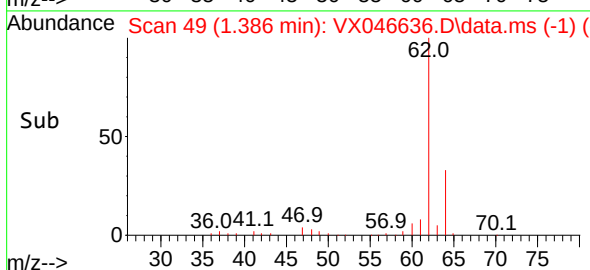
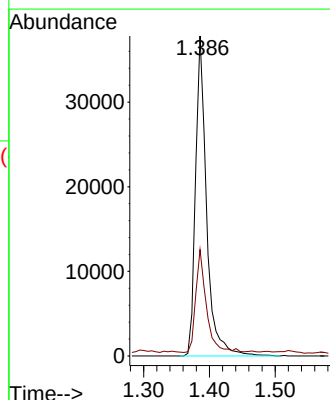
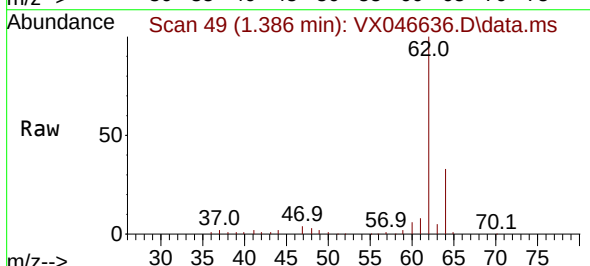
Manual Integrations
APPROVED

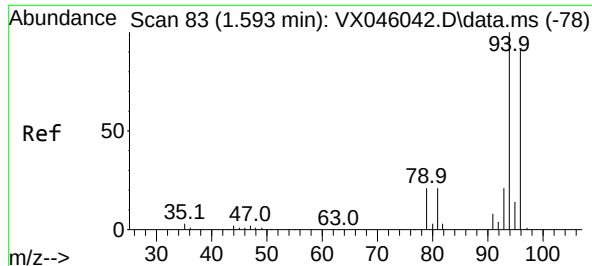
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#4
Vinyl Chloride
Concen: 45.171 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion: 62 Resp: 44081
Ion Ratio Lower Upper
62 100
64 32.0 25.2 37.8





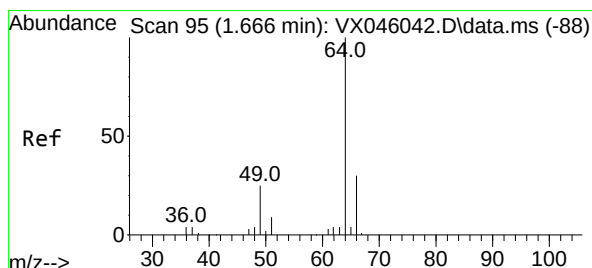
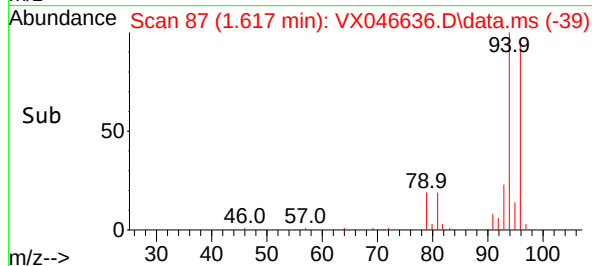
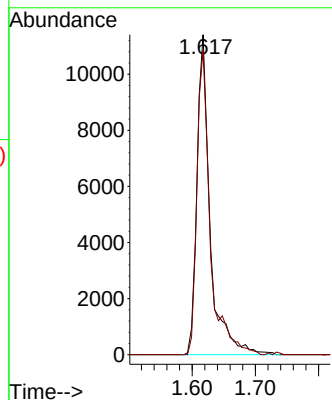
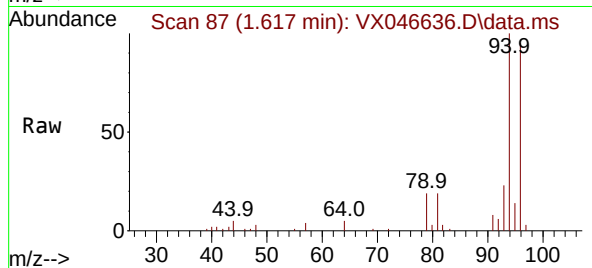
#5
Bromomethane
Concen: 27.971 ug/l
RT: 1.617 min Scan# 81
Delta R.T. -0.007 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 1657
Ion Ratio Lower Upper
94 100
96 95.1 72.8 109.2

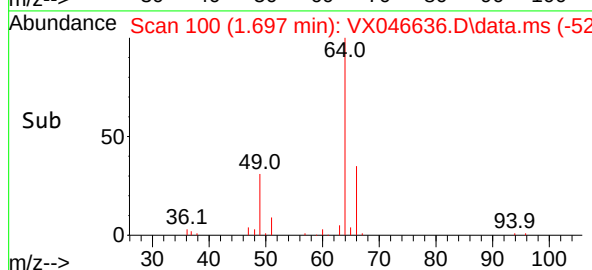
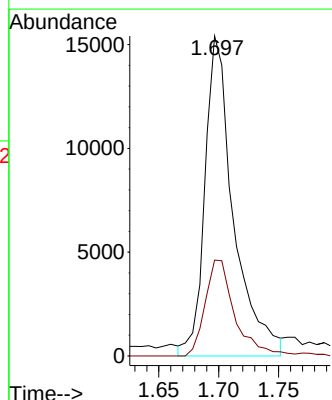
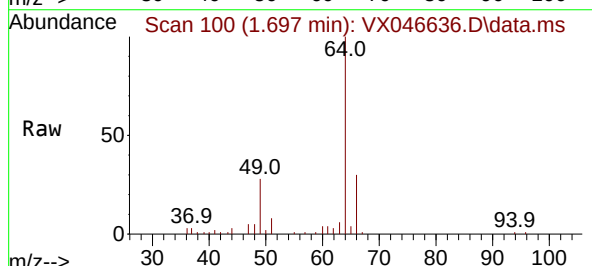
Manual Integrations
APPROVED

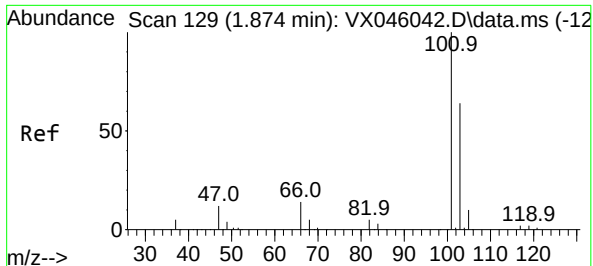
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#6
Chloroethane
Concen: 40.448 ug/l m
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

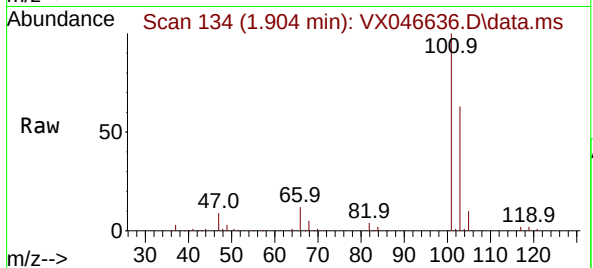
Tgt Ion: 64 Resp: 25610
Ion Ratio Lower Upper
64 100
66 30.0 24.3 36.5





#7
Trichlorofluoromethane
Concen: 42.711 ug/l
RT: 1.904 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

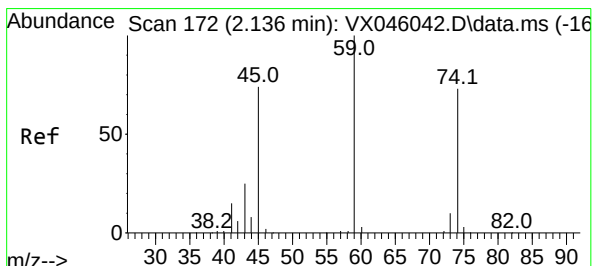
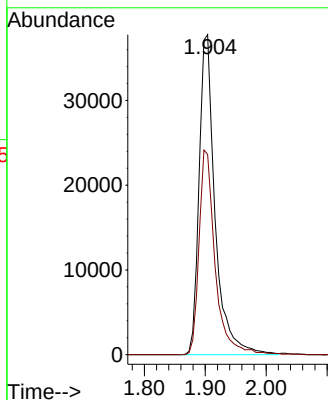
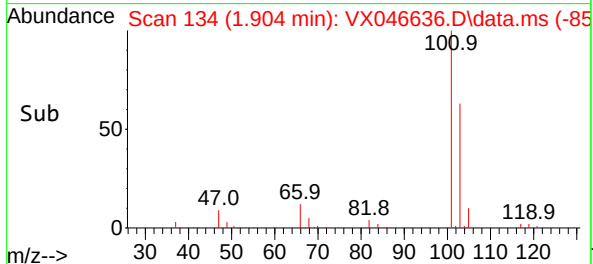
Instrument :
MSVOA_X
ClientSampleId :
VSTDC050



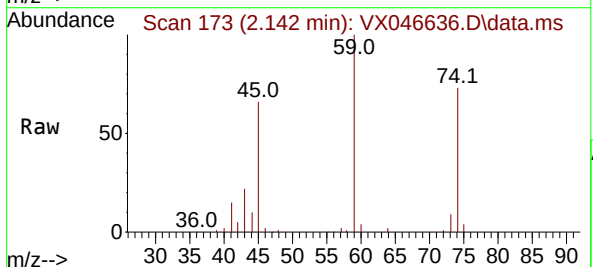
Tgt Ion:101 Resp: 6896
Ion Ratio Lower Upper
101 100
103 62.5 51.0 76.4

Manual Integrations
APPROVED

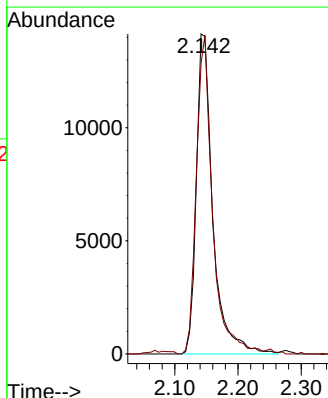
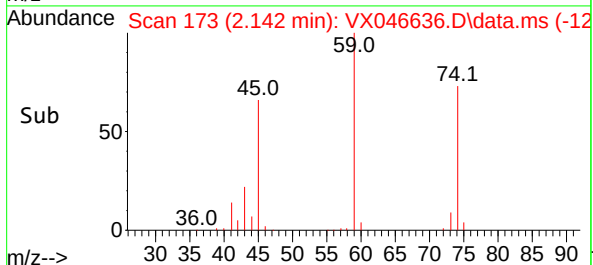
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

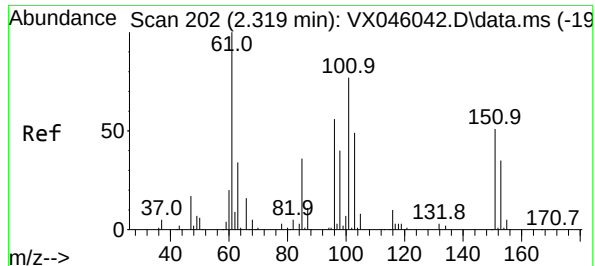


#8
Diethyl Ether
Concen: 45.060 ug/l
RT: 2.142 min Scan# 173
Delta R.T. -0.012 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46



Tgt Ion: 74 Resp: 25706
Ion Ratio Lower Upper
74 100
45 98.8 54.9 164.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.803 ug/l

RT: 2.343 min Scan# 206

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:101 Resp: 51679

Ion Ratio Lower Upper

101 100

85 44.9 38.6 58.0

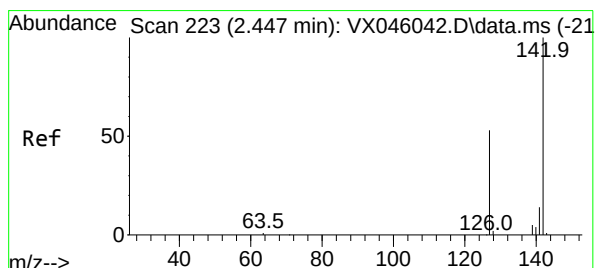
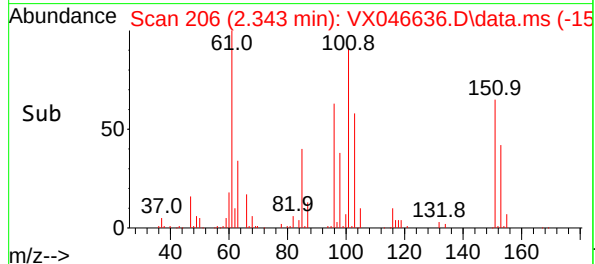
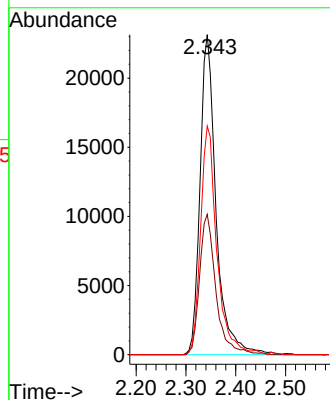
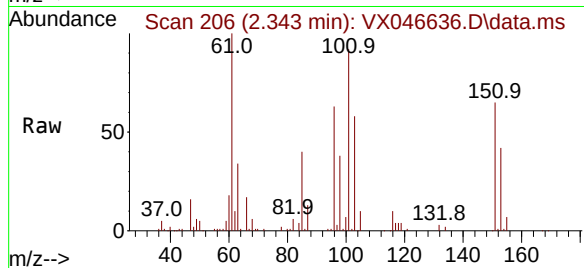
151 72.8 55.2 82.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#10

Methyl Iodide

Concen: 40.090 ug/l

RT: 2.465 min Scan# 226

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

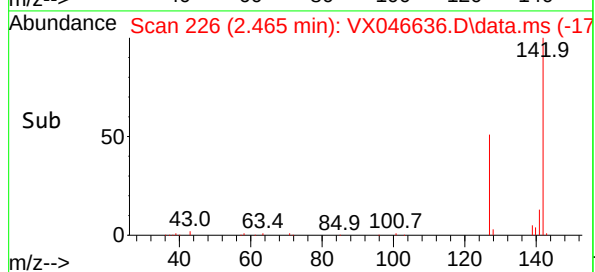
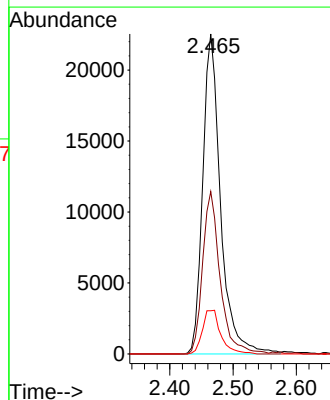
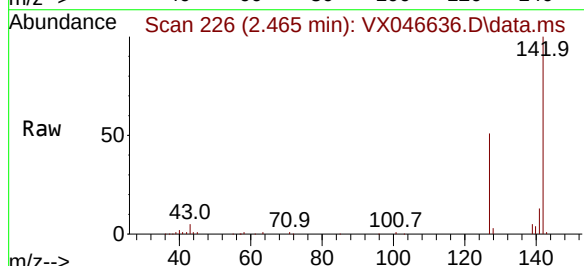
Tgt Ion:142 Resp: 44208

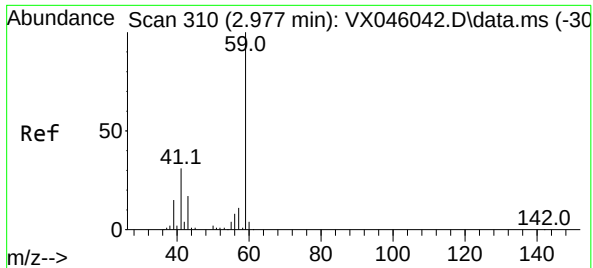
Ion Ratio Lower Upper

142 100

127 49.8 41.7 62.5

141 14.1 11.5 17.3





#11

Tert butyl alcohol

Concen: 220.908 ug/l

RT: 2.965 min Scan# 30

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 33784

Ion Ratio Lower Upper

59 100

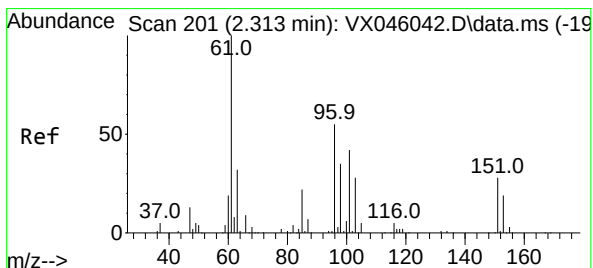
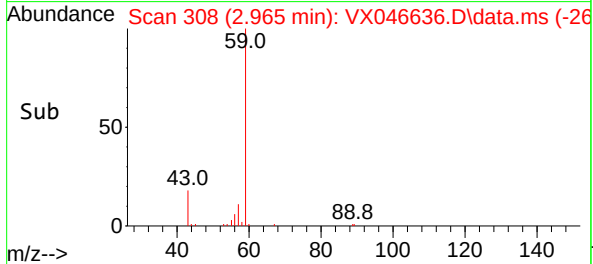
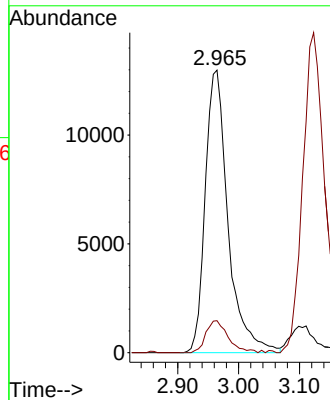
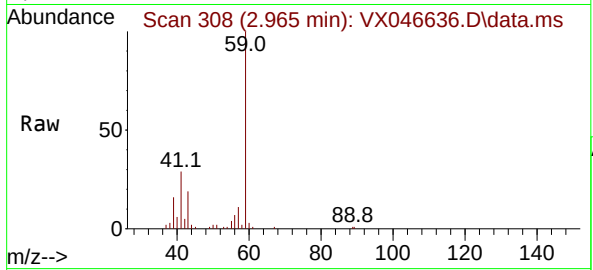
57 11.0 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#12

1,1-Dichloroethene

Concen: 50.196 ug/l

RT: 2.331 min Scan# 204

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

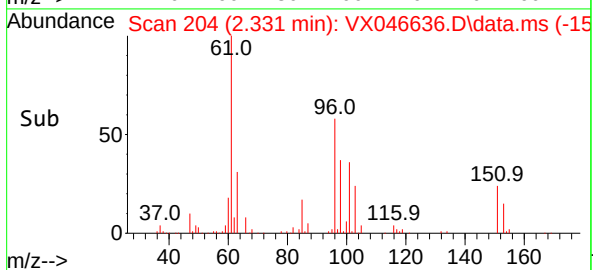
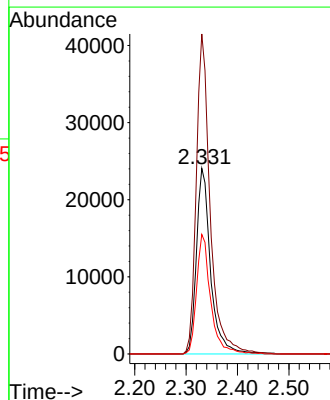
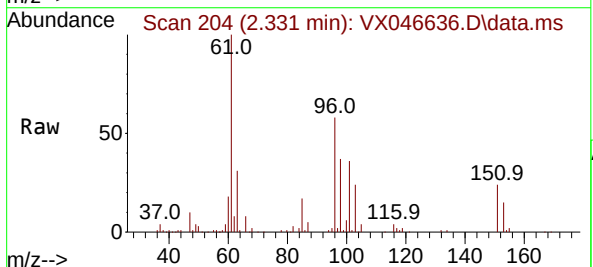
Tgt Ion: 96 Resp: 46167

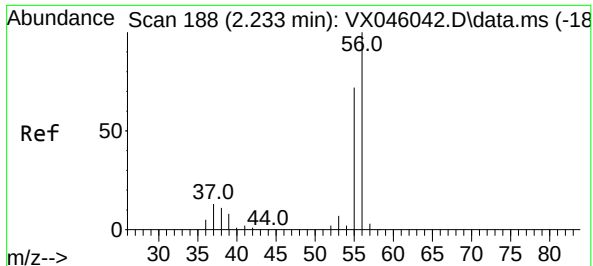
Ion Ratio Lower Upper

96 100

61 172.4 146.2 219.2

98 64.4 51.0 76.6





#13

Acrolein

Concen: 318.023 ug/l

RT: 2.245 min Scan# 14

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 60539

Ion Ratio Lower Upper

56 100

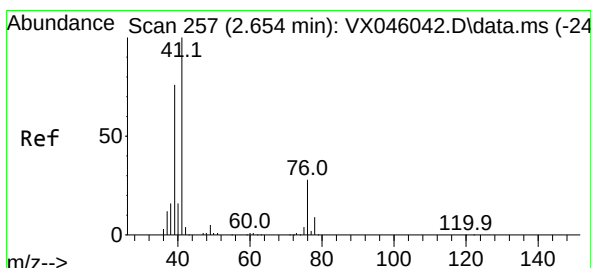
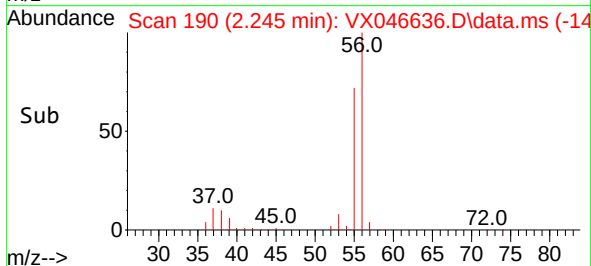
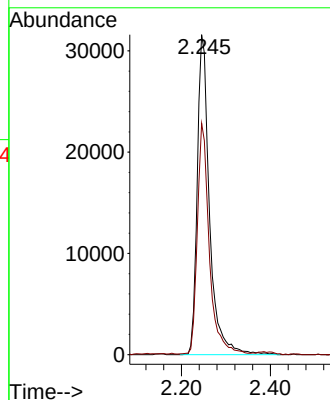
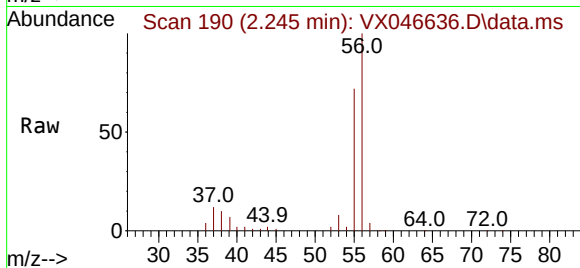
55 70.3 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#14

Allyl chloride

Concen: 50.488 ug/l

RT: 2.678 min Scan# 261

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

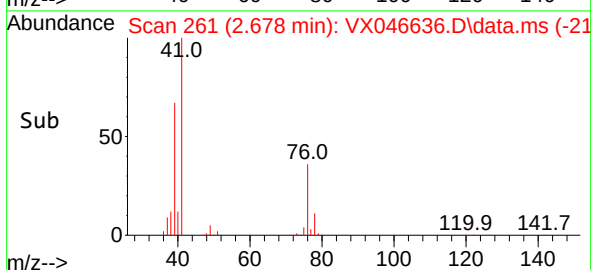
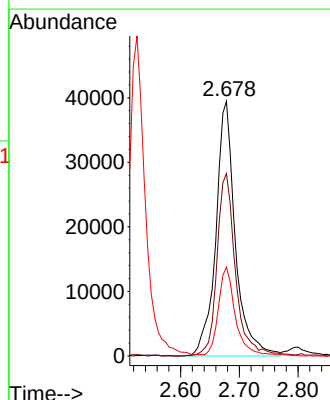
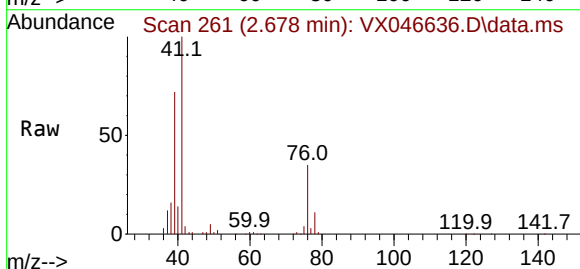
Tgt Ion: 41 Resp: 91197

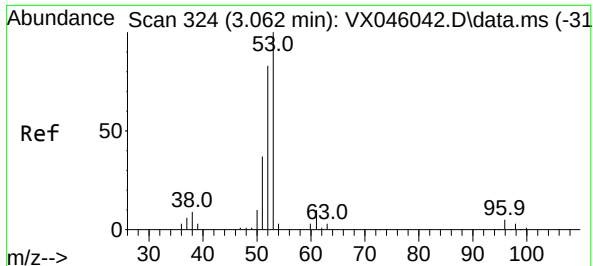
Ion Ratio Lower Upper

41 100

39 67.8 60.6 90.8

76 30.7 24.9 37.3





#15

Acrylonitrile

Concen: 260.120 ug/l

RT: 3.068 min Scan# 31

Delta R.T. -0.013 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 53 Resp: 150410

Ion Ratio Lower Upper

53 100

52 82.5 65.3 97.9

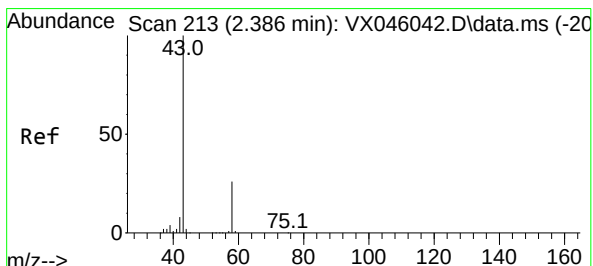
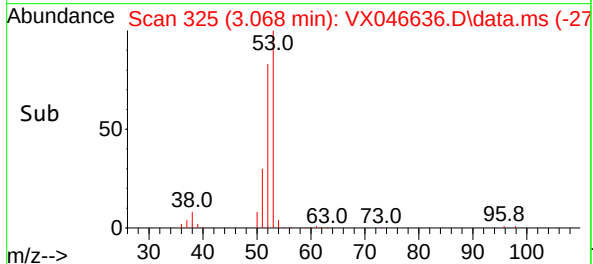
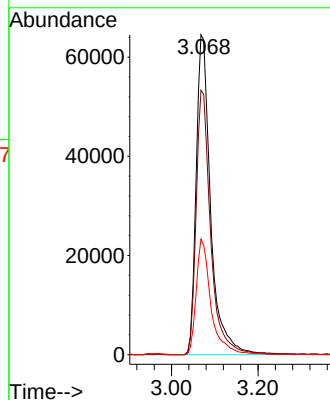
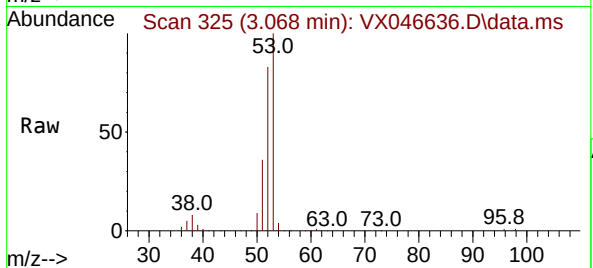
51 36.9 29.8 44.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#16

Acetone

Concen: 239.623 ug/l

RT: 2.385 min Scan# 213

Delta R.T. -0.007 min

Lab File: VX046636.D

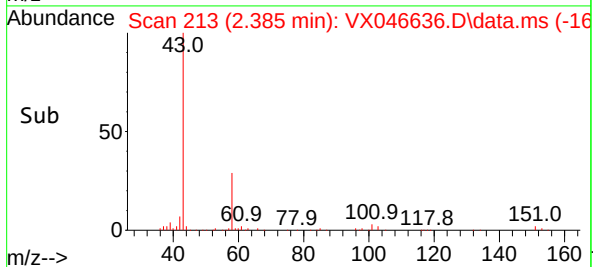
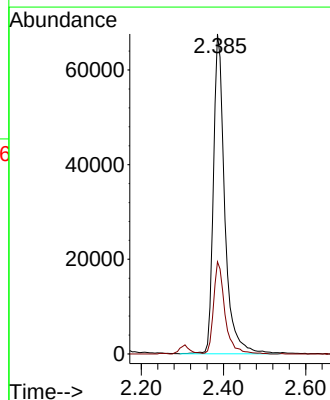
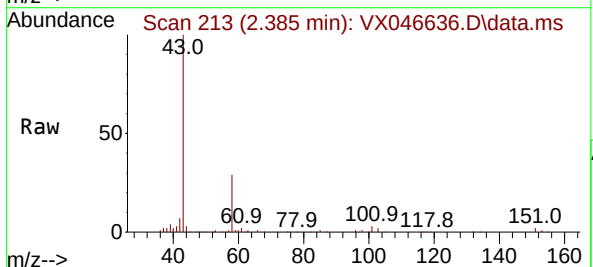
Acq: 11 Jun 2025 14:46

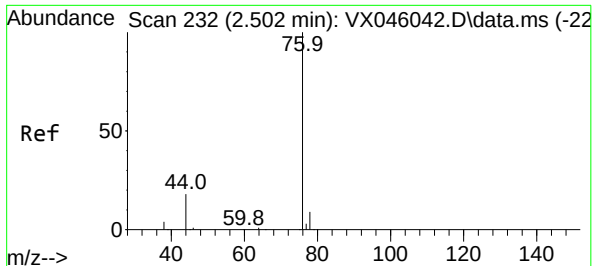
Tgt Ion: 43 Resp: 129583

Ion Ratio Lower Upper

43 100

58 28.7 21.2 31.8





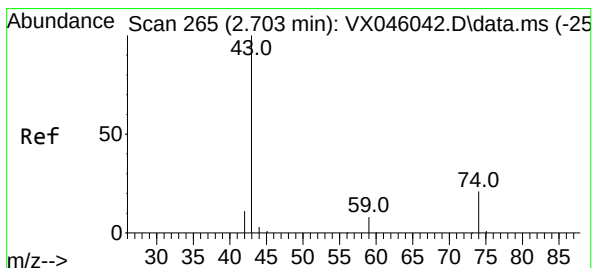
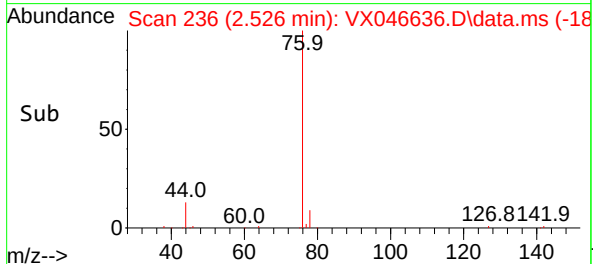
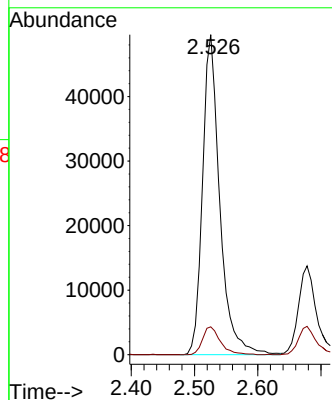
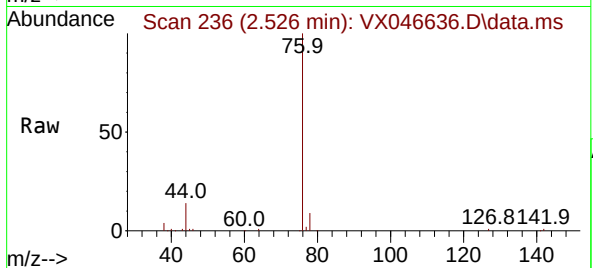
#17
Carbon Disulfide
Concen: 48.207 ug/l
RT: 2.526 min Scan# 211
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 9412
Ion Ratio Lower Upper
76 100
78 8.7 7.0 10.4

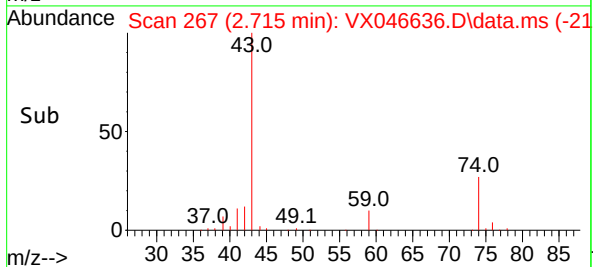
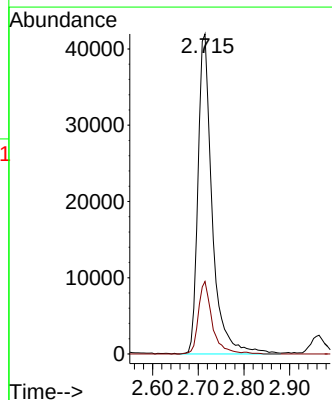
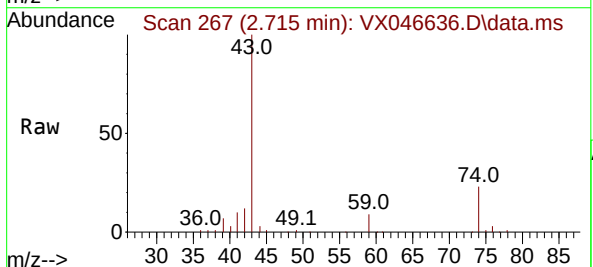
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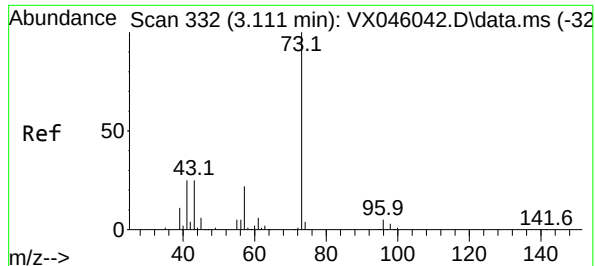
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#18
Methyl Acetate
Concen: 55.283 ug/l
RT: 2.715 min Scan# 267
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion: 43 Resp: 90756
Ion Ratio Lower Upper
43 100
74 21.8 16.7 25.1





#19

Methyl tert-butyl Ether

Concen: 53.911 ug/l

RT: 3.123 min Scan# 31

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 173499

Ion Ratio Lower Upper

73 100

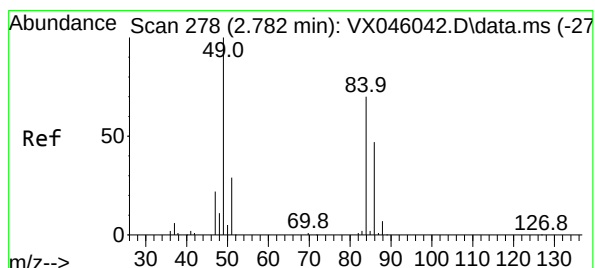
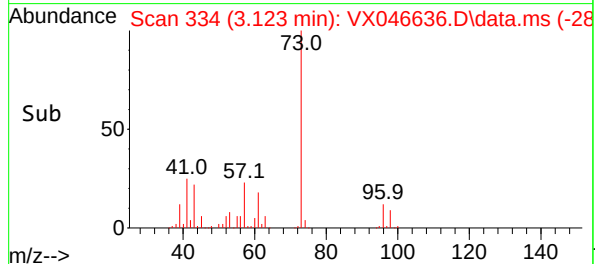
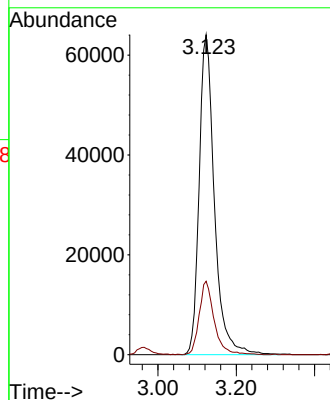
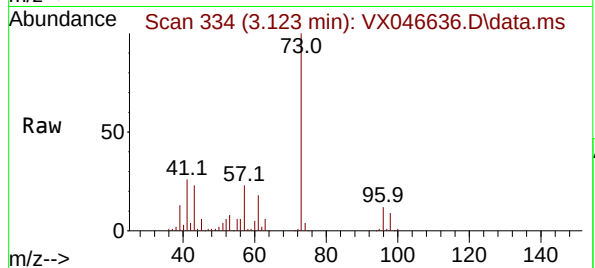
57 22.9 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#20

Methylene Chloride

Concen: 50.139 ug/l

RT: 2.800 min Scan# 281

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Tgt Ion: 84 Resp: 55439

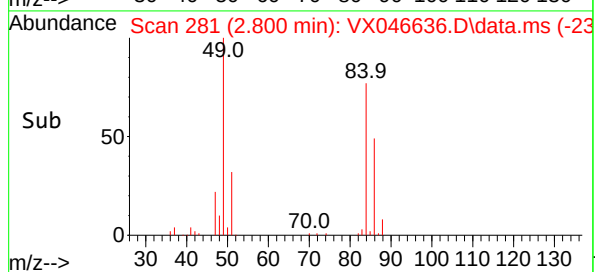
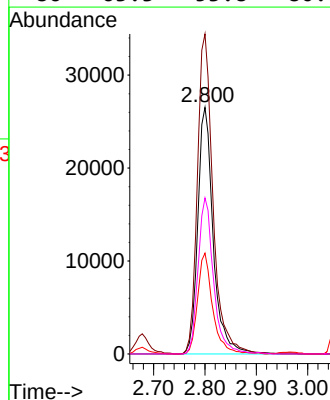
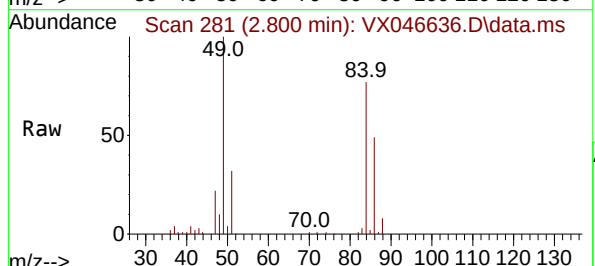
Ion Ratio Lower Upper

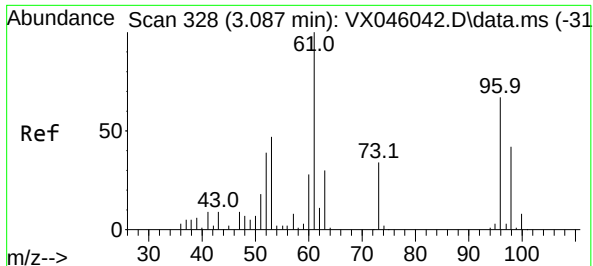
84 100

49 129.8 113.9 170.9

51 40.9 33.5 50.3

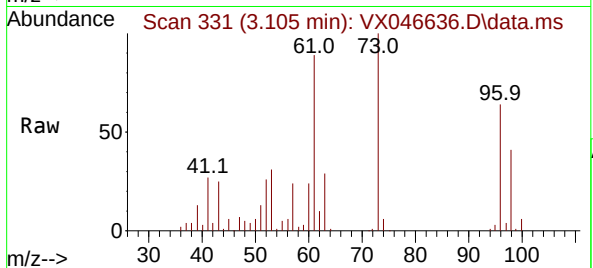
86 63.3 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 49.675 ug/l
RT: 3.105 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

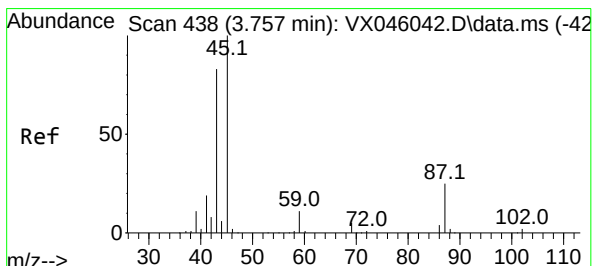
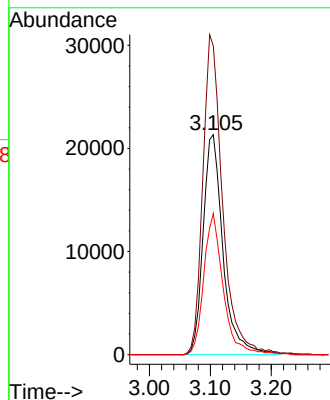
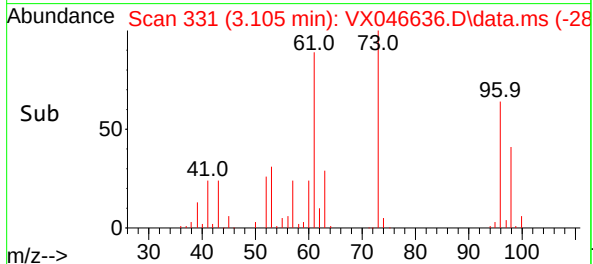
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



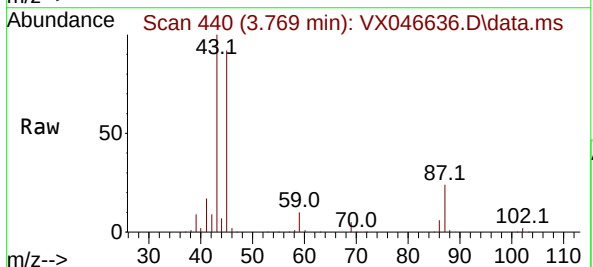
Tgt Ion: 96 Resp: 48350
Ion Ratio Lower Upper
96 100
61 140.2 119.5 179.3
98 64.2 50.0 75.0

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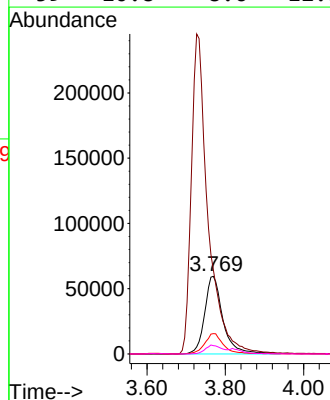
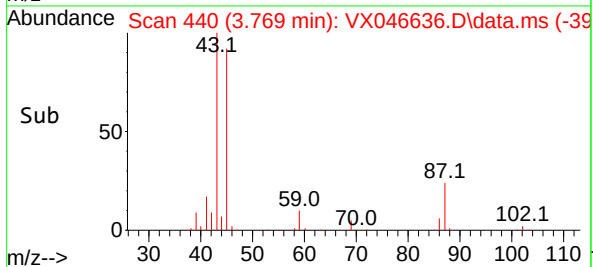
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

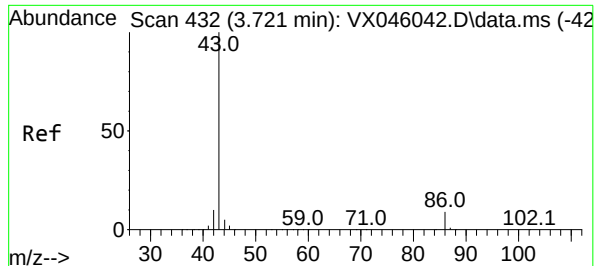


#22
Diisopropyl ether
Concen: 53.823 ug/l
RT: 3.769 min Scan# 440
Delta R.T. -0.013 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46



Tgt Ion: 45 Resp: 191676
Ion Ratio Lower Upper
45 100
43 108.0 66.6 100.0#
87 26.3 19.8 29.6
59 10.8 8.6 12.8





#23

Vinyl Acetate

Concen: 265.747 ug/l

RT: 3.727 min Scan# 41

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDC050

Tgt Ion: 43 Resp: 730658

Ion Ratio Lower Upper

43

100

86

9.5

7.5

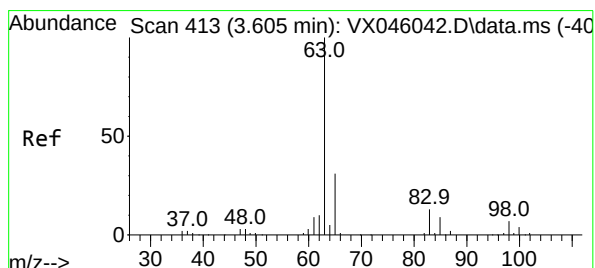
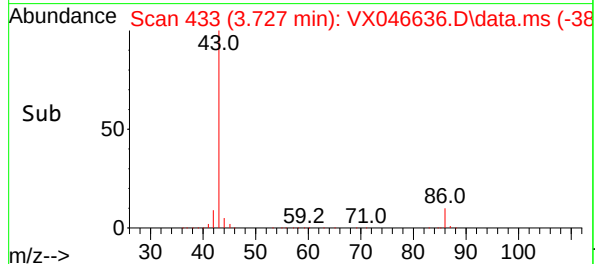
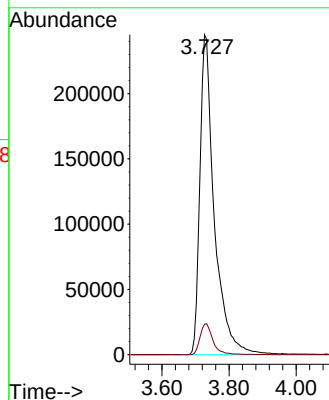
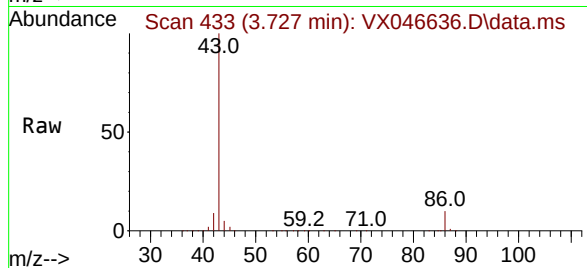
11.3

Manual Integrations

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Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#24

1,1-Dichloroethane

Concen: 51.716 ug/l

RT: 3.617 min Scan# 415

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Tgt Ion: 63 Resp: 102645

Ion Ratio Lower Upper

63

100

98

7.1

3.6

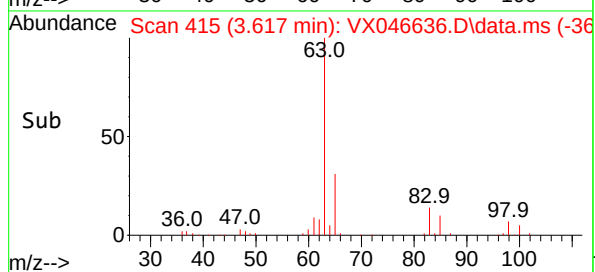
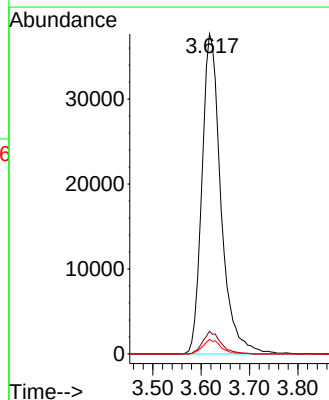
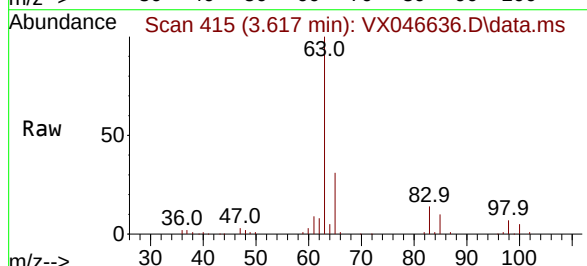
10.8

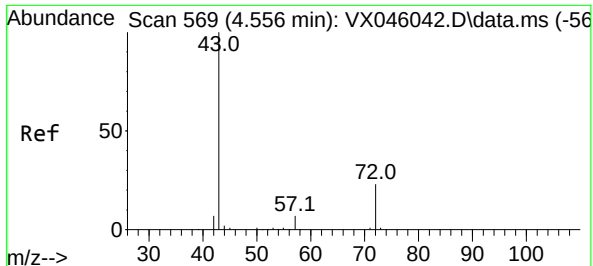
100

4.5

2.1

6.3





#25

2-Butanone

Concen: 245.374 ug/l

RT: 4.562 min Scan# 51

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 188260

Ion Ratio Lower Upper

43 100

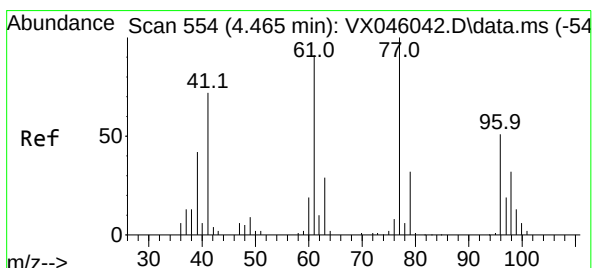
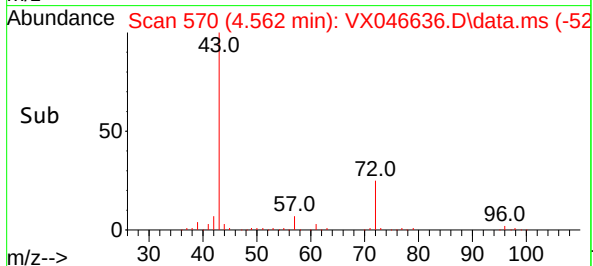
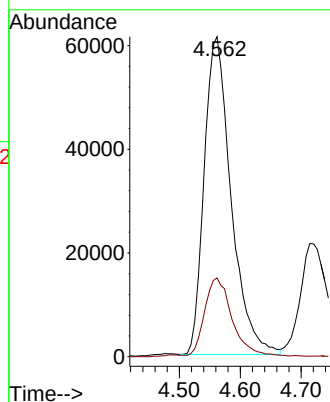
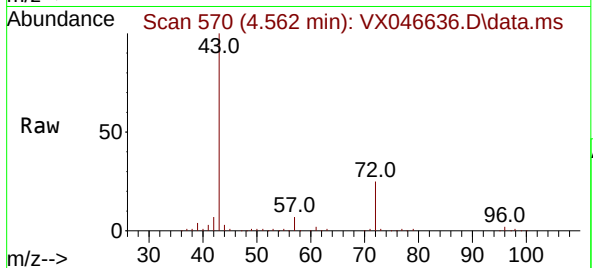
72 24.3 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#26

2,2-Dichloropropane

Concen: 51.935 ug/l

RT: 4.489 min Scan# 558

Delta R.T. -0.006 min

Lab File: VX046636.D

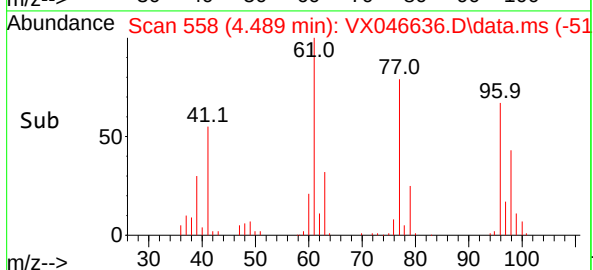
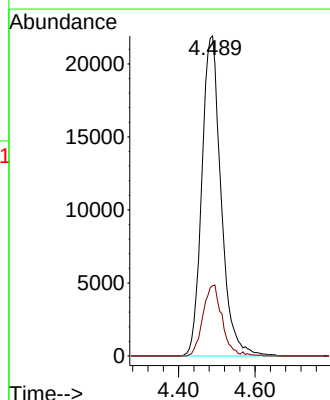
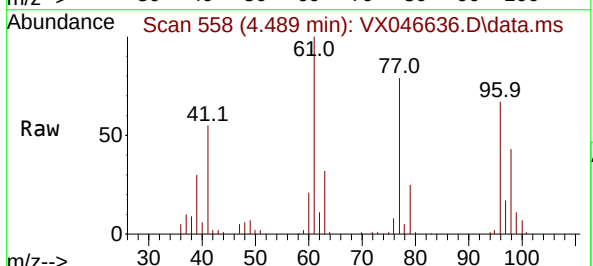
Acq: 11 Jun 2025 14:46

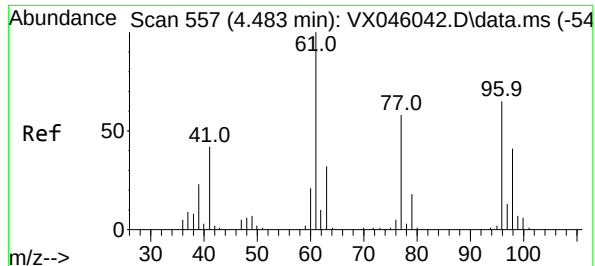
Tgt Ion: 77 Resp: 76522

Ion Ratio Lower Upper

77 100

97 21.7 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 51.635 ug/l

RT: 4.495 min Scan# 51

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 61869

Ion Ratio Lower Upper

96 100

61 153.5 0.0 322.8

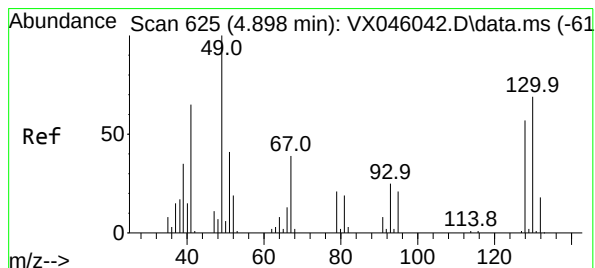
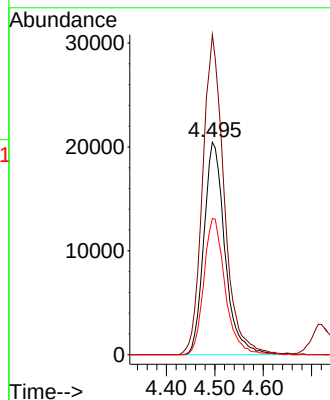
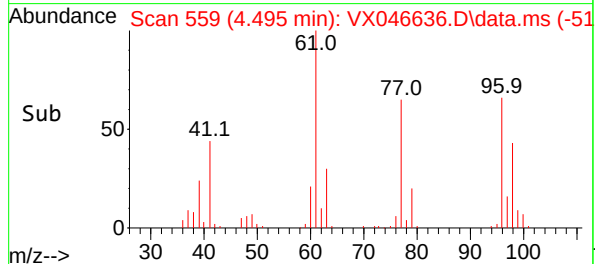
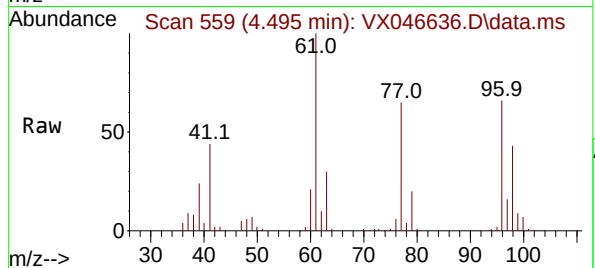
98 64.8 0.0 129.0

Manual Integrations

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Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#28

Bromochloromethane

Concen: 46.537 ug/l

RT: 4.903 min Scan# 626

Delta R.T. -0.013 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

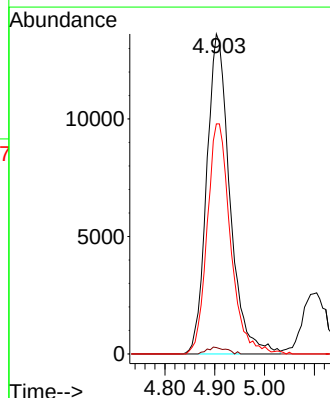
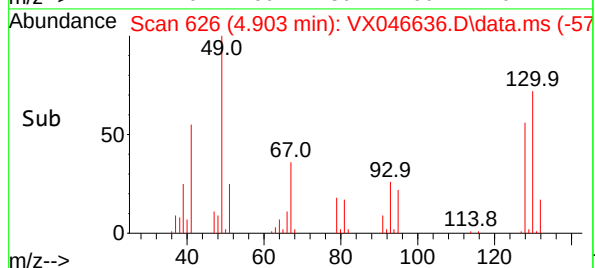
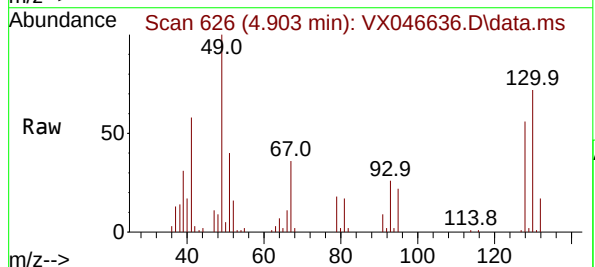
Tgt Ion: 49 Resp: 44054

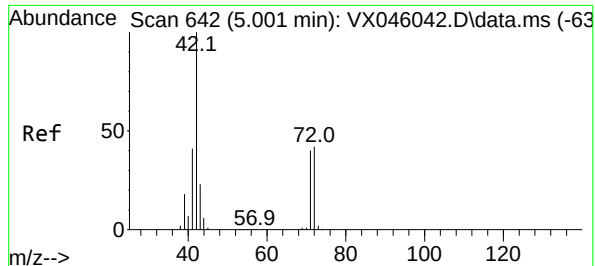
Ion Ratio Lower Upper

49 100

129 1.8 0.0 4.0

130 72.1 56.2 84.2





#29

Tetrahydrofuran

Concen: 240.984 ug/l

RT: 5.013 min Scan# 64

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 11676

Ion Ratio Lower Upper

42 100

72 43.9 33.7 50.5

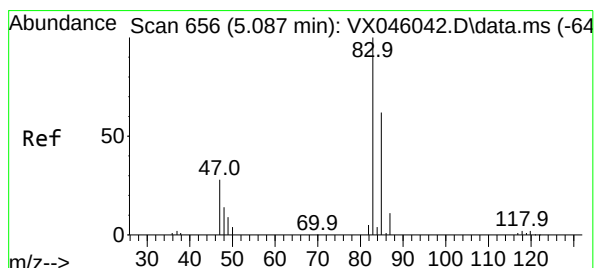
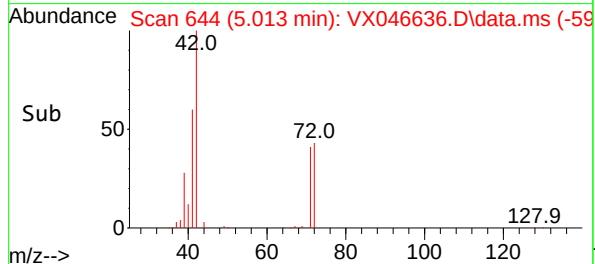
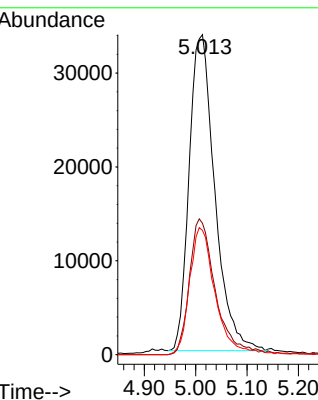
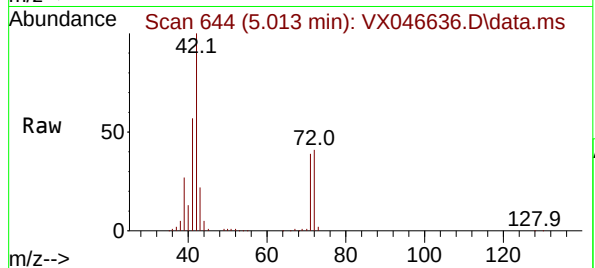
71 40.3 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#30

Chloroform

Concen: 53.424 ug/l

RT: 5.098 min Scan# 658

Delta R.T. -0.013 min

Lab File: VX046636.D

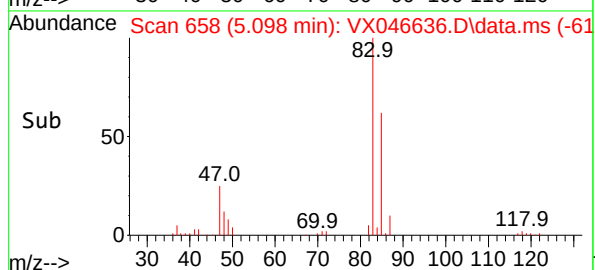
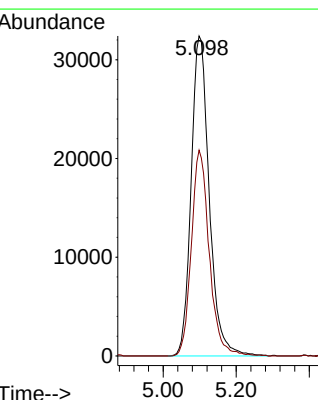
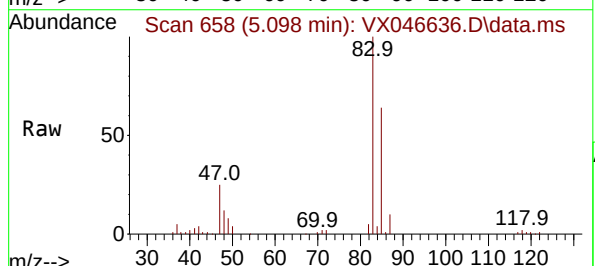
Acq: 11 Jun 2025 14:46

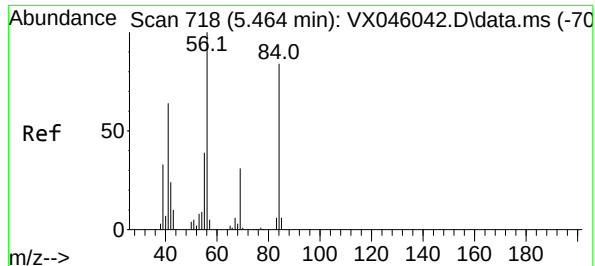
Tgt Ion: 83 Resp: 111101

Ion Ratio Lower Upper

83 100

85 64.3 49.3 73.9





#31

Cyclohexane

Concen: 49.332 ug/l

RT: 5.476 min Scan# 718

Delta R.T. -0.013 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 7904

Ion Ratio Lower Upper

56 100

69 29.5 24.4 36.6

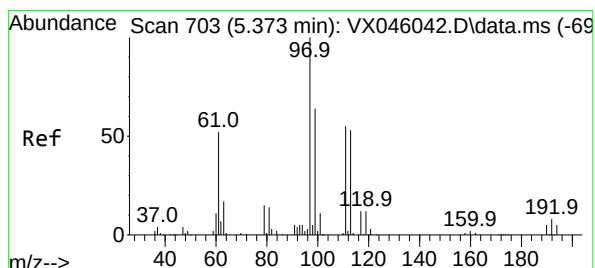
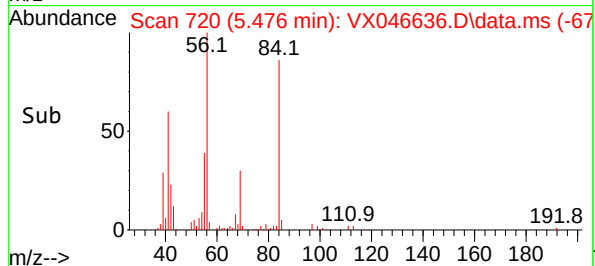
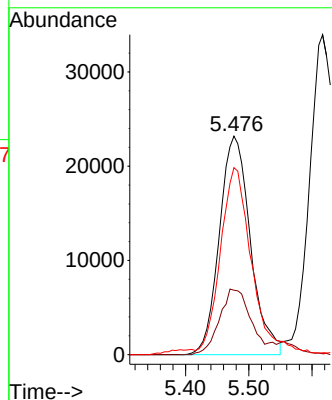
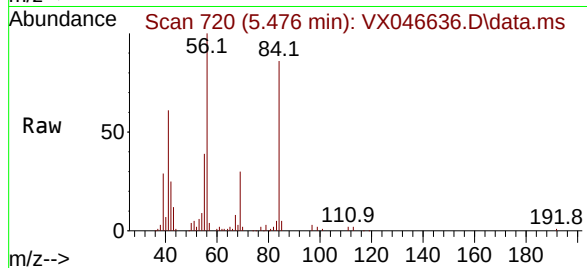
84 83.3 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#32

1,1,1-Trichloroethane

Concen: 51.668 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

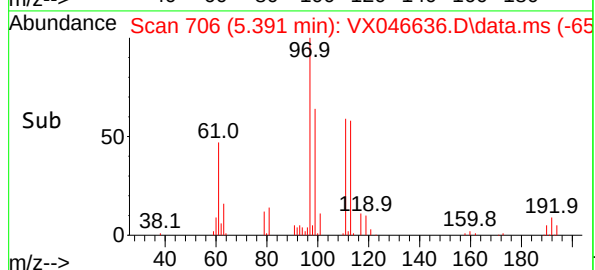
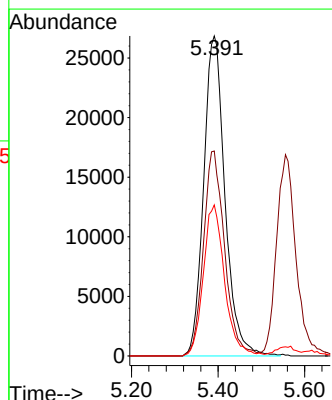
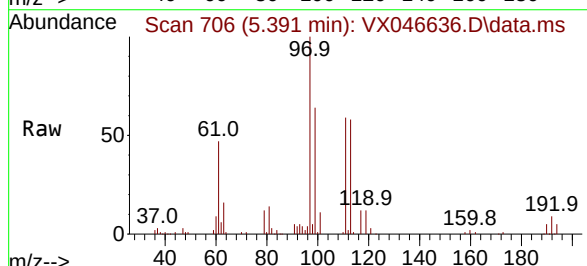
Tgt Ion: 97 Resp: 91912

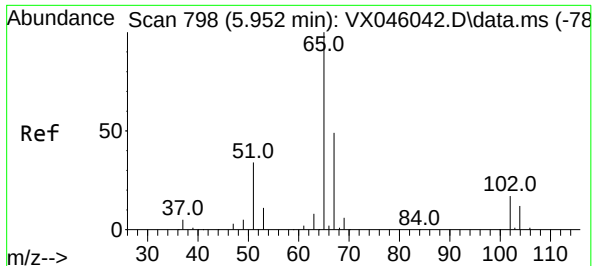
Ion Ratio Lower Upper

97 100

99 63.4 51.8 77.6

61 47.0 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 46.653 ug/l

RT: 5.958 min Scan# 798

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 64299

Ion Ratio Lower Upper

65 100

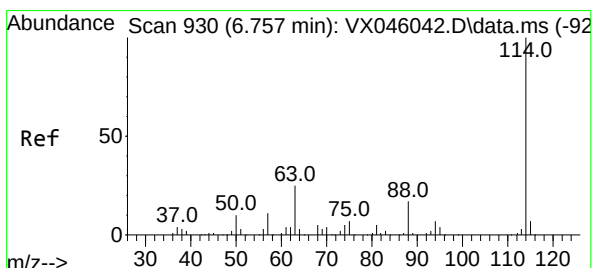
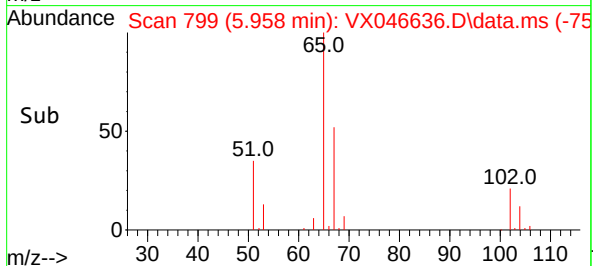
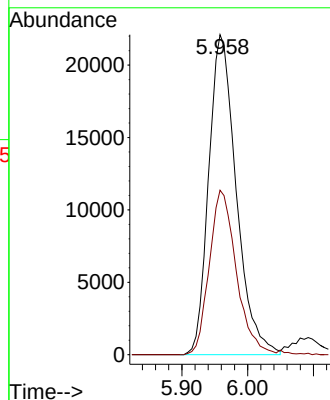
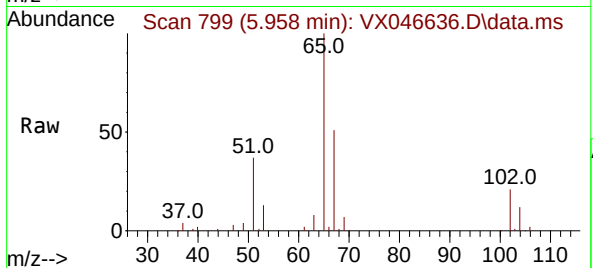
67 50.4 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

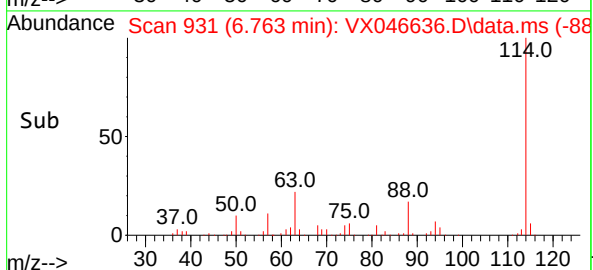
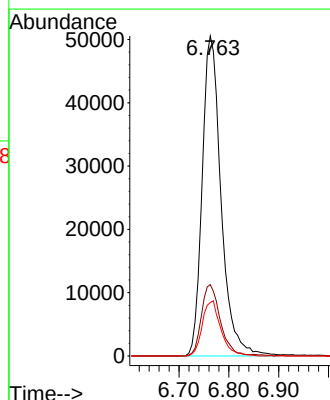
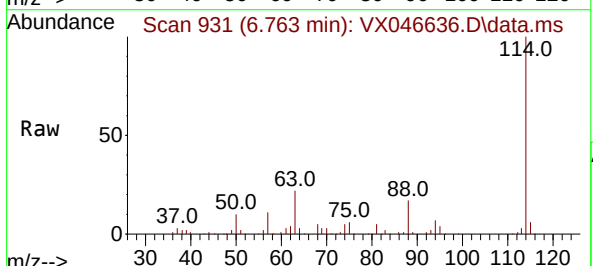
Tgt Ion:114 Resp: 133266

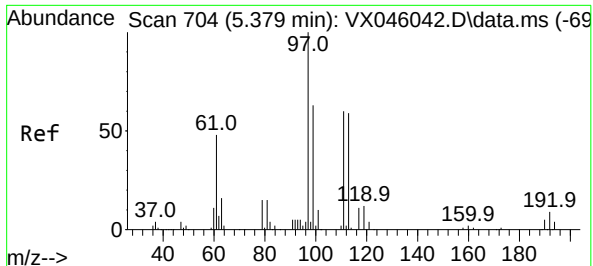
Ion Ratio Lower Upper

114 100

63 22.3 0.0 49.2

88 16.7 0.0 33.6





#35

Dibromofluoromethane

Concen: 51.915 ug/l

RT: 5.391 min Scan# 704

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:113 Resp: 50878

Ion Ratio Lower Upper

113 100

111 102.2 83.1 124.7

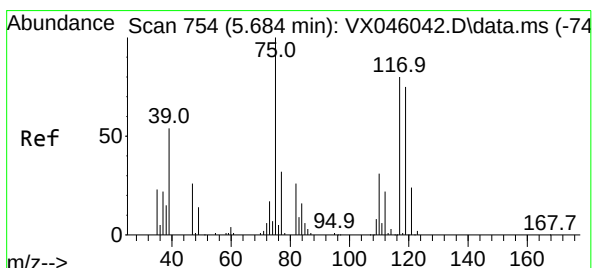
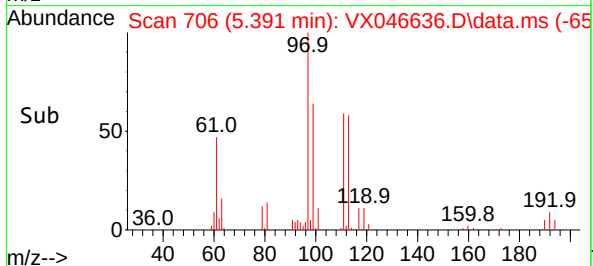
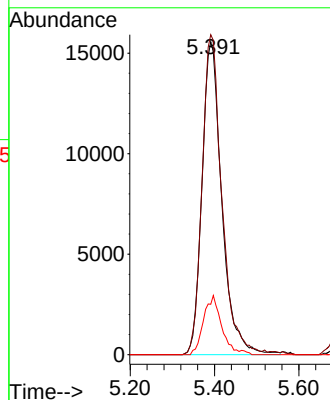
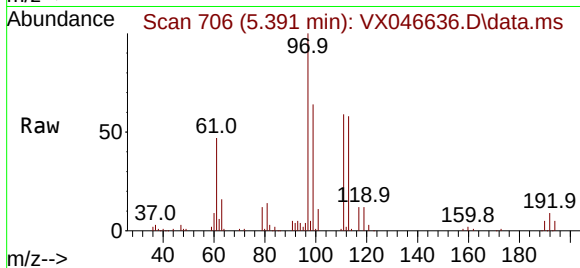
192 17.4 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#36

1,1-Dichloropropene

Concen: 47.660 ug/l

RT: 5.696 min Scan# 756

Delta R.T. -0.018 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

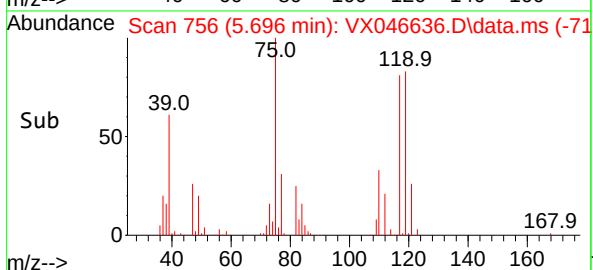
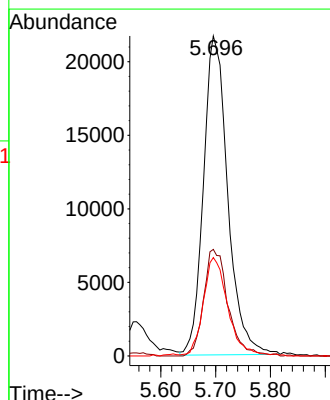
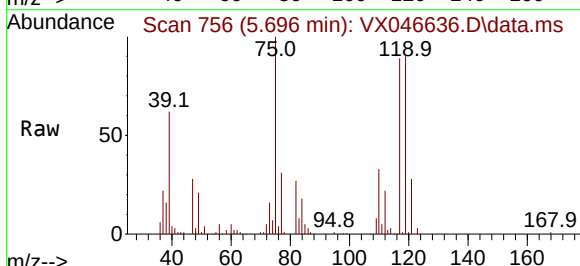
Tgt Ion: 75 Resp: 66719

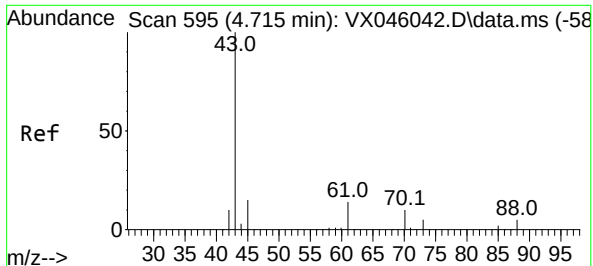
Ion Ratio Lower Upper

75 100

110 33.5 16.3 48.9

77 31.2 24.3 36.5





#37

Ethyl Acetate

Concen: 53.299 ug/l

RT: 4.714 min Scan# 595

Delta R.T. -0.019 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 7282

Ion Ratio Lower Upper

43 100

61 13.1 10.3 15.5

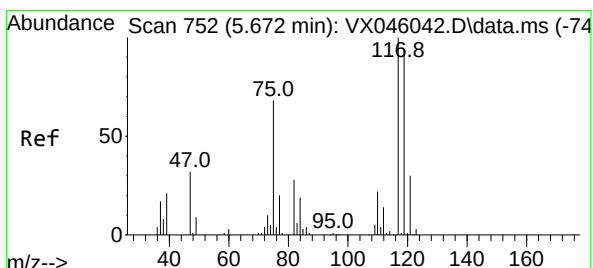
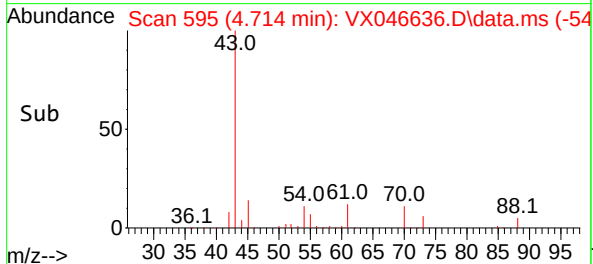
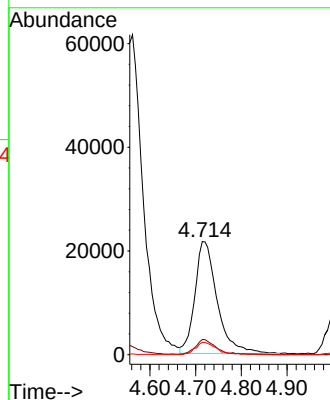
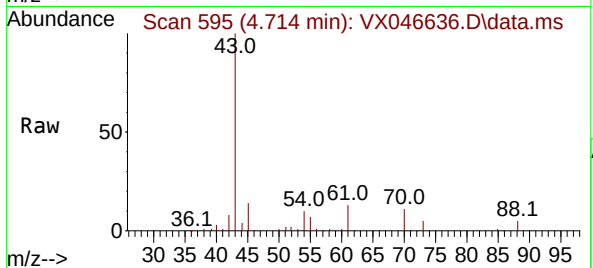
70 10.4 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#38

Carbon Tetrachloride

Concen: 49.184 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

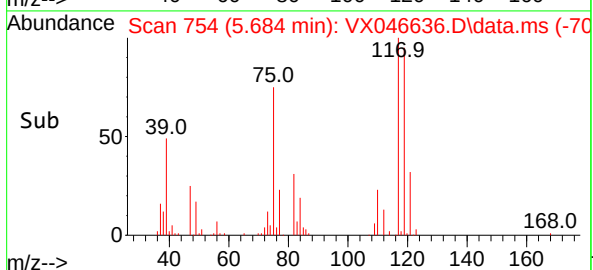
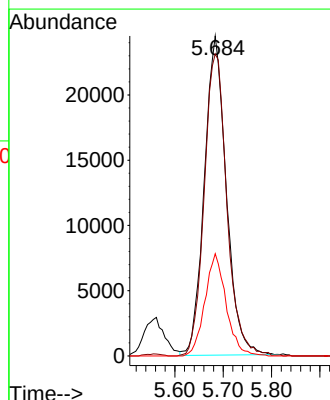
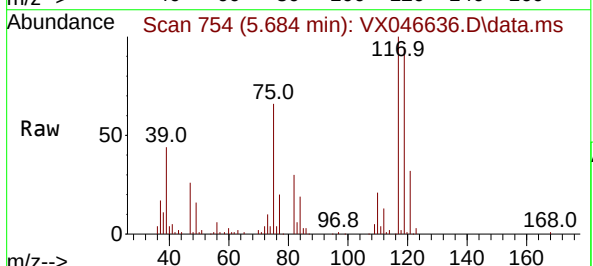
Tgt Ion:117 Resp: 77120

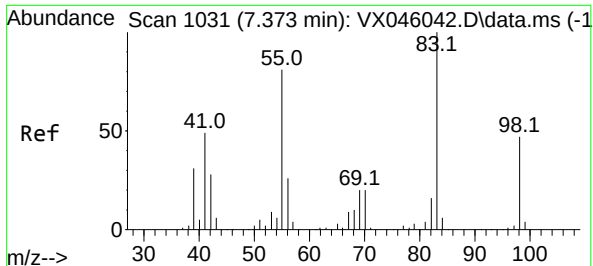
Ion Ratio Lower Upper

117 100

119 94.6 75.2 112.8

121 32.1 24.2 36.4





#39

Methylcyclohexane

Concen: 48.113 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 79500

Ion Ratio Lower Upper

83 100

55 81.8 64.7 97.1

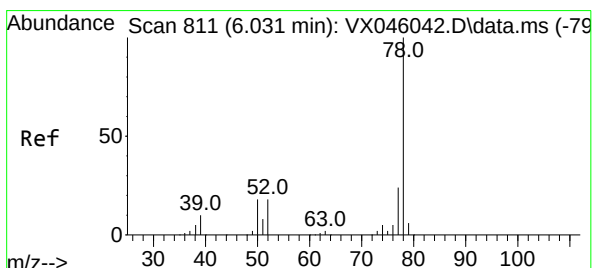
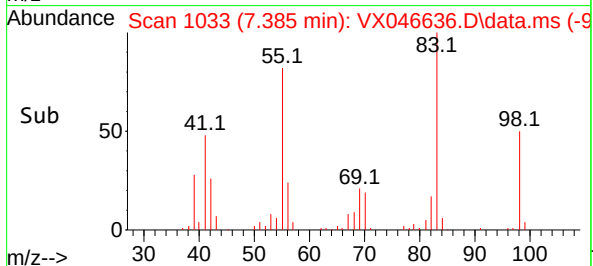
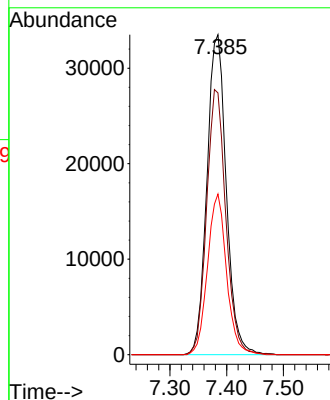
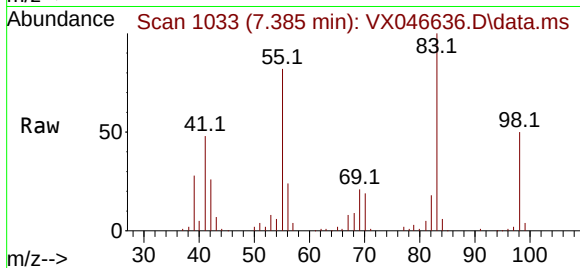
98 50.2 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#40

Benzene

Concen: 51.876 ug/l

RT: 6.043 min Scan# 813

Delta R.T. -0.013 min

Lab File: VX046636.D

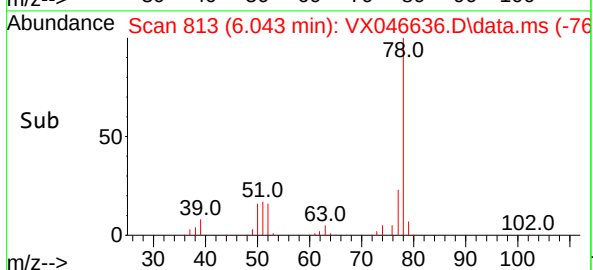
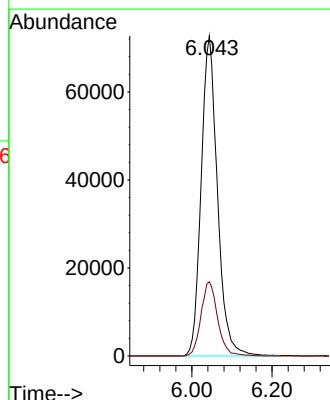
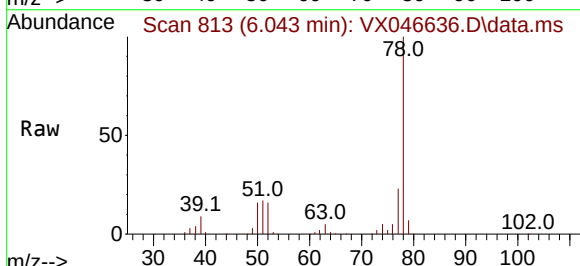
Acq: 11 Jun 2025 14:46

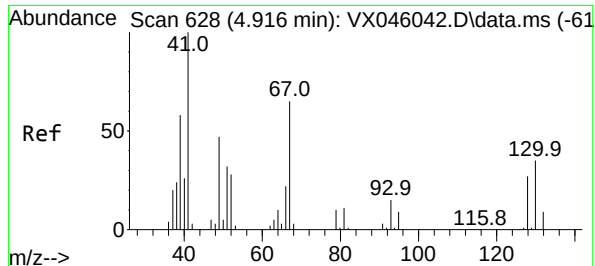
Tgt Ion: 78 Resp: 204444

Ion Ratio Lower Upper

78 100

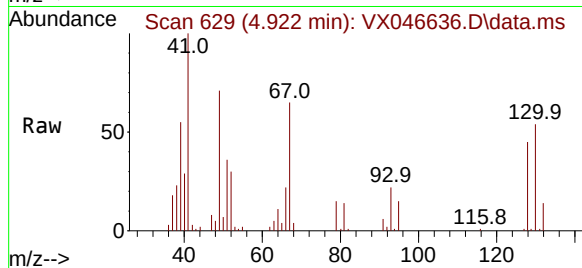
77 23.2 19.0 28.4





#41
Methacrylonitrile
Concen: 51.538 ug/l
RT: 4.922 min Scan# 61
Delta R.T. -0.012 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

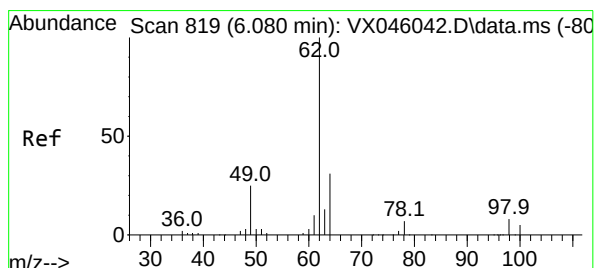
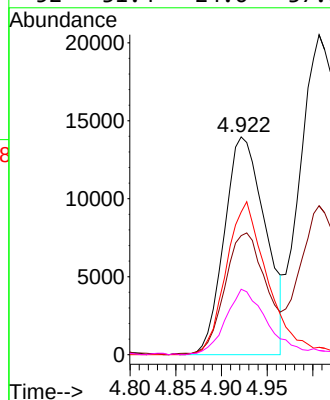
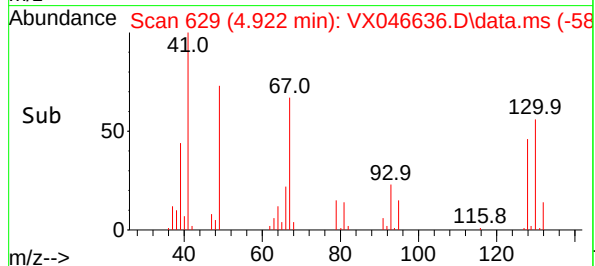
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 41 Resp: 43728
Ion Ratio Lower Upper
41 100
39 56.2 47.2 70.8
67 72.3 50.7 76.1
52 31.4 24.6 37.0

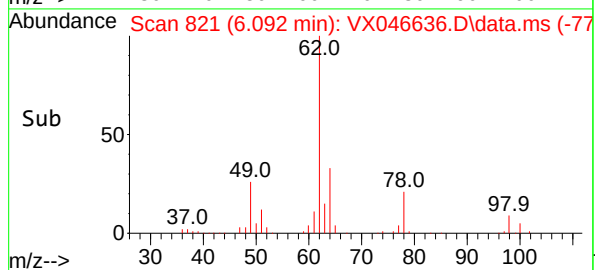
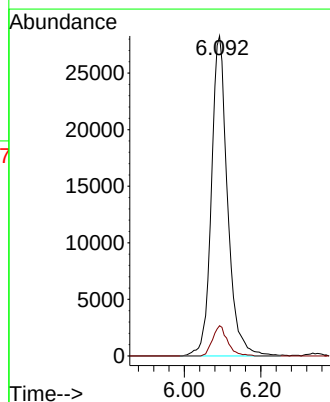
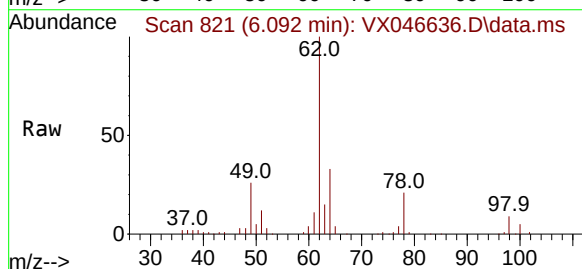
Manual Integrations
APPROVED

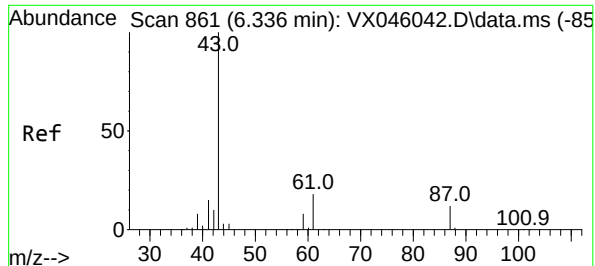
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#42
1,2-Dichloroethane
Concen: 50.505 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion: 62 Resp: 82805
Ion Ratio Lower Upper
62 100
98 8.8 0.0 15.2





#43

Isopropyl Acetate

Concen: 51.690 ug/l

RT: 6.342 min Scan# 862

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 12312

Ion Ratio Lower Upper

43 100

61 18.9 14.3 21.5

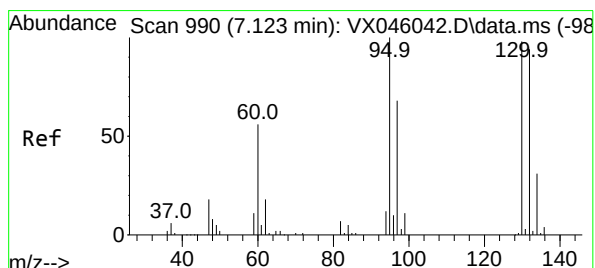
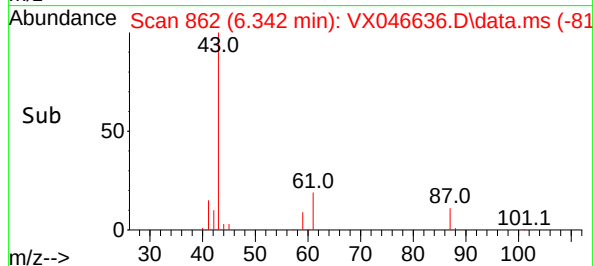
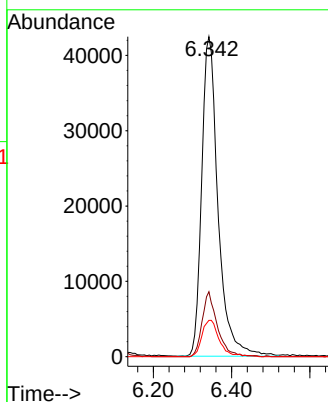
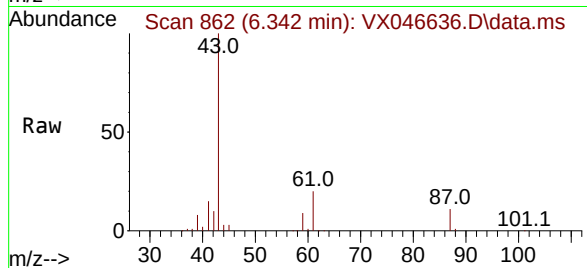
87 12.1 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#44

Trichloroethene

Concen: 50.496 ug/l

RT: 7.128 min Scan# 991

Delta R.T. -0.007 min

Lab File: VX046636.D

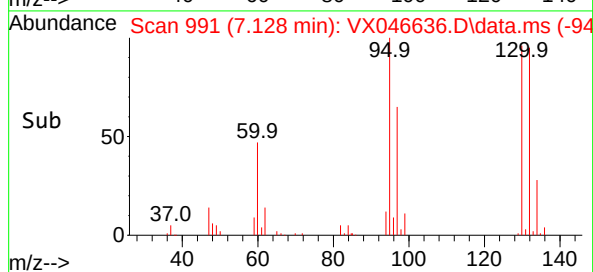
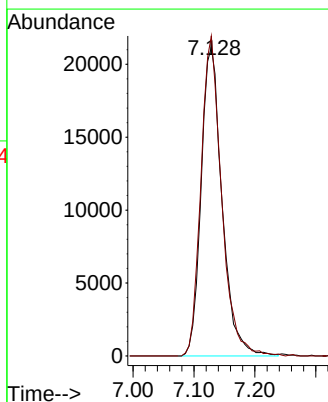
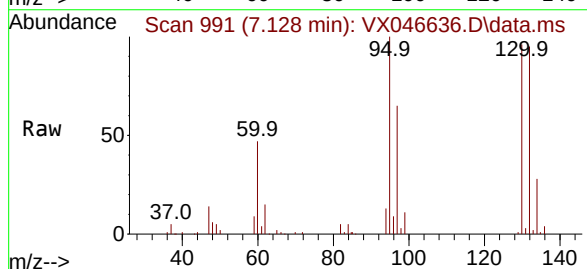
Acq: 11 Jun 2025 14:46

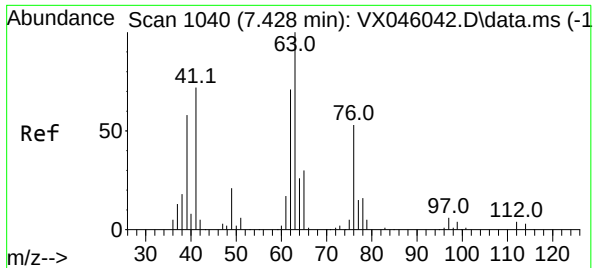
Tgt Ion:130 Resp: 50564

Ion Ratio Lower Upper

130 100

95 103.7 0.0 204.2





#45

1,2-Dichloropropane

Concen: 53.877 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.013 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 5480

Ion Ratio Lower Upper

63 100

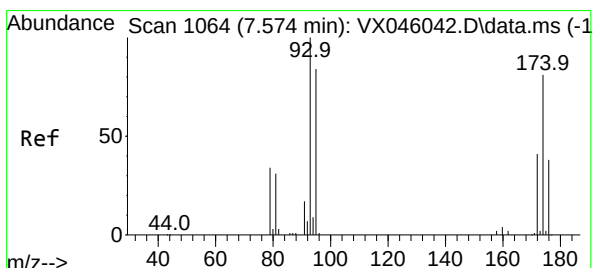
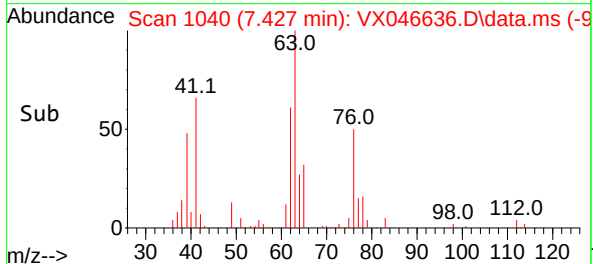
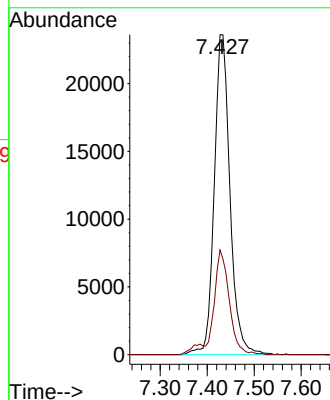
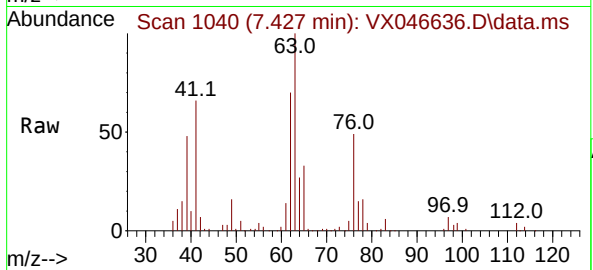
65 32.7 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#46

Dibromomethane

Concen: 52.002 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

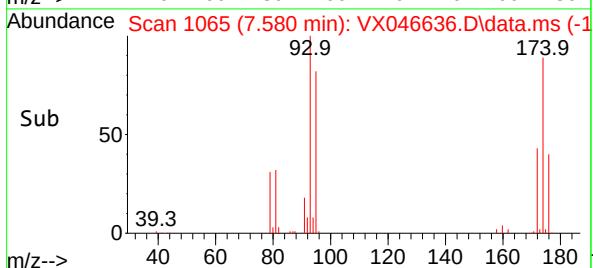
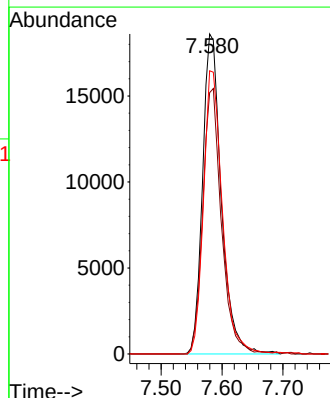
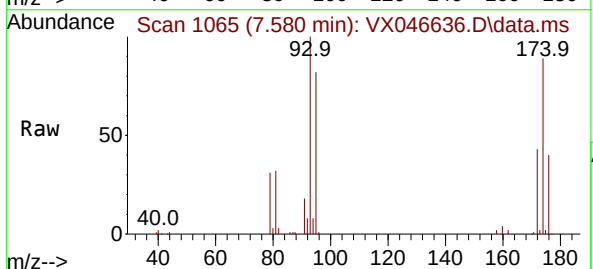
Tgt Ion: 93 Resp: 39795

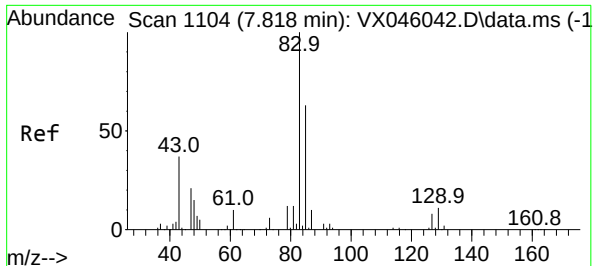
Ion Ratio Lower Upper

93 100

95 83.1 65.6 98.4

174 89.3 68.2 102.2





#47

Bromodichloromethane

Concen: 54.764 ug/l

RT: 7.823 min Scan# 1105

Delta R.T. -0.007 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

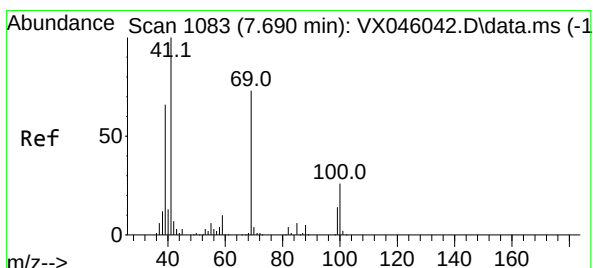
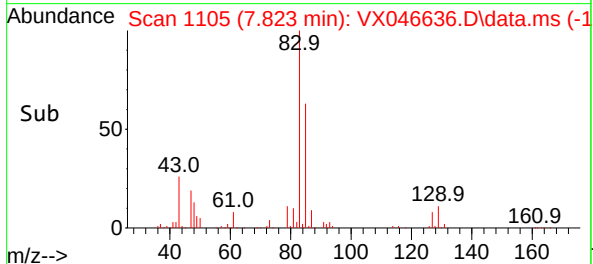
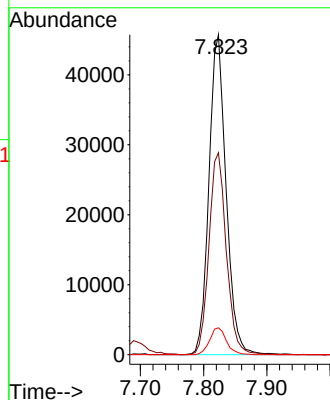
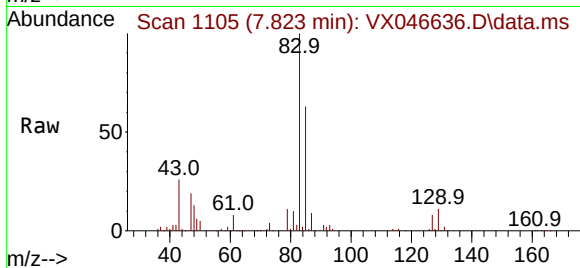
Tgt Ion:	83	Resp:	86170
Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.5	75.7
127	8.4	6.5	9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#48

Methyl methacrylate

Concen: 52.623 ug/l

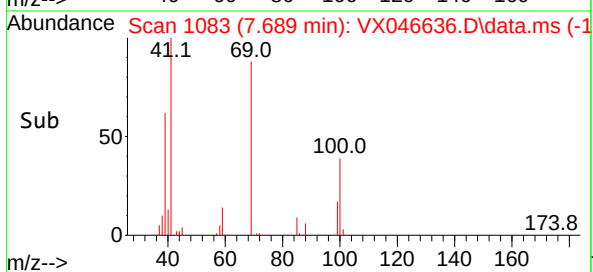
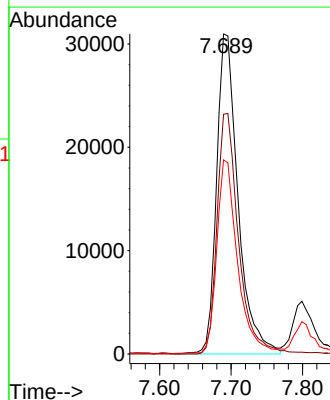
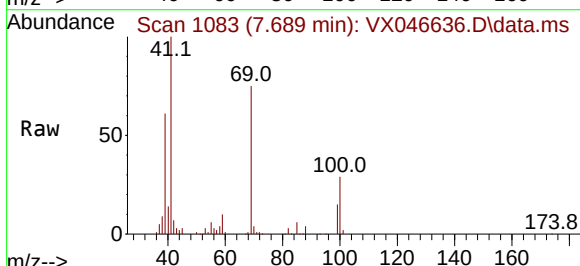
RT: 7.689 min Scan# 1083

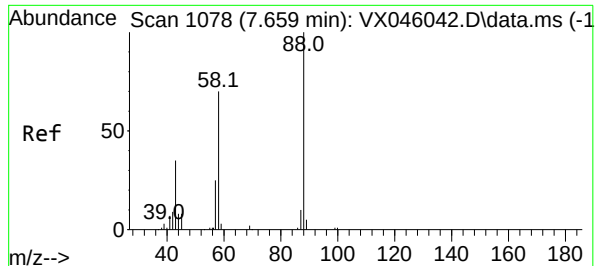
Delta R.T. -0.013 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Tgt Ion:	41	Resp:	64491
Ion	Ratio	Lower	Upper
41	100		
69	75.5	58.5	87.7
39	59.2	51.7	77.5





#49

1,4-Dioxane

Concen: 936.440 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 1534

Ion Ratio Lower Upper

88 100

43 43.4 33.4 50.2

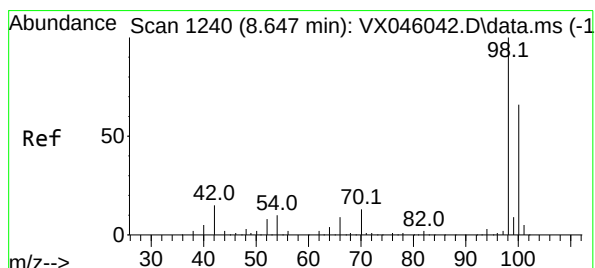
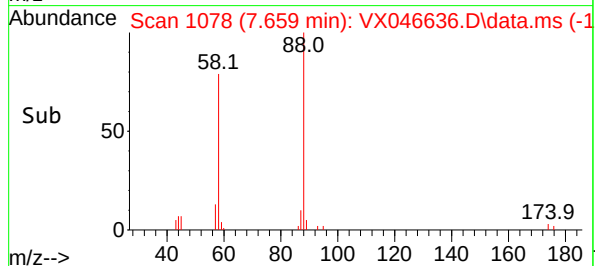
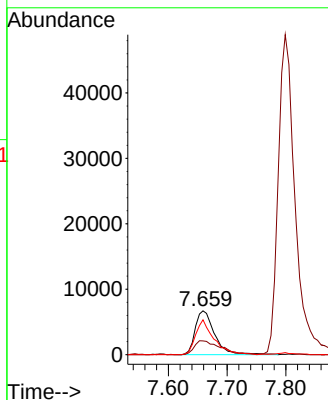
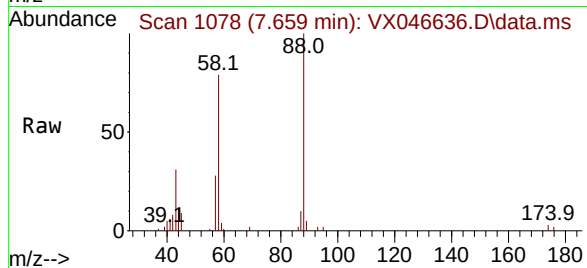
58 74.5 58.6 88.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#50

Toluene-d8

Concen: 50.297 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. -0.007 min

Lab File: VX046636.D

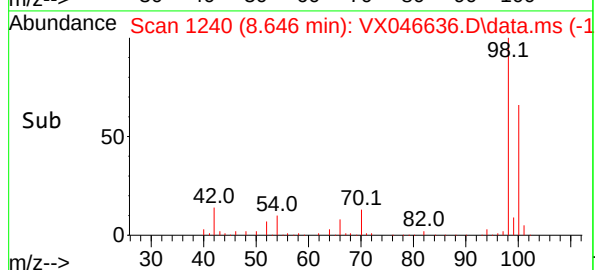
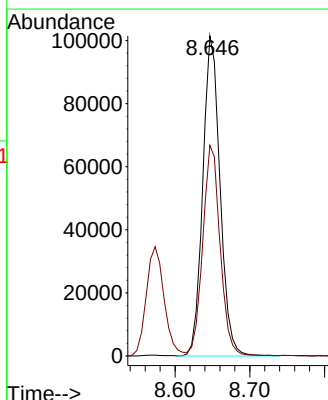
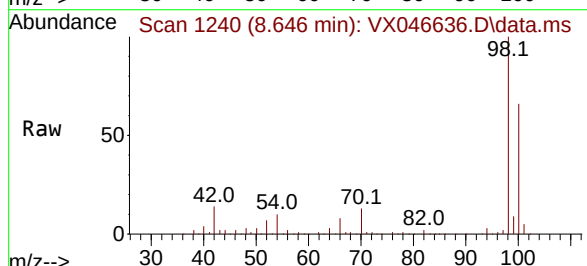
Acq: 11 Jun 2025 14:46

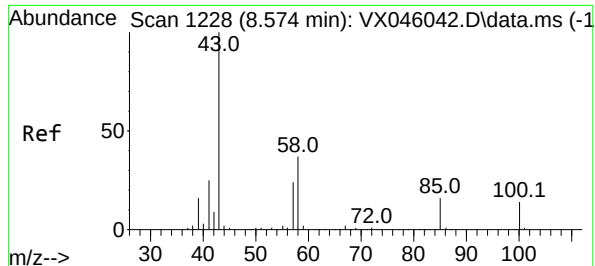
Tgt Ion: 98 Resp: 162512

Ion Ratio Lower Upper

98 100

100 66.0 53.5 80.3





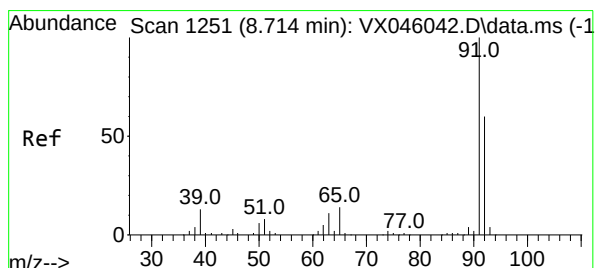
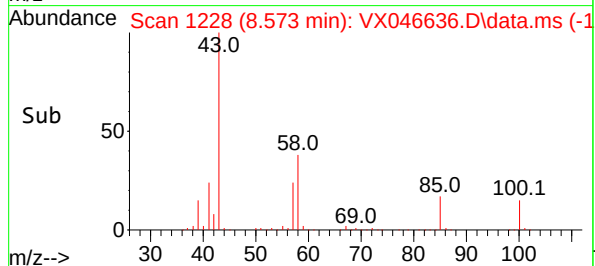
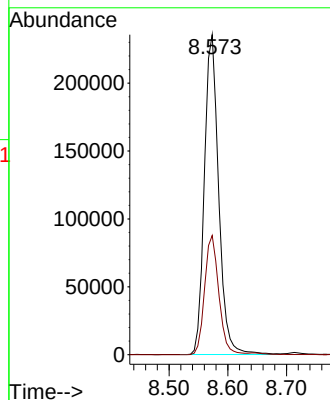
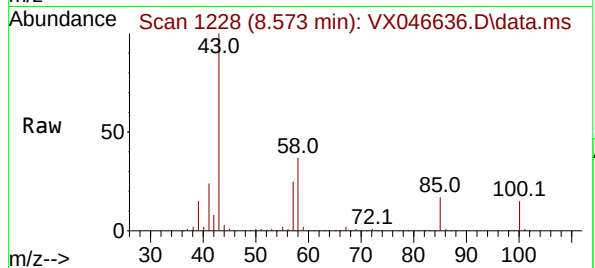
#51
4-Methyl-2-Pentanone
Concen: 263.985 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 39957
Ion Ratio Lower Upper
43 100
58 36.9 28.9 43.3

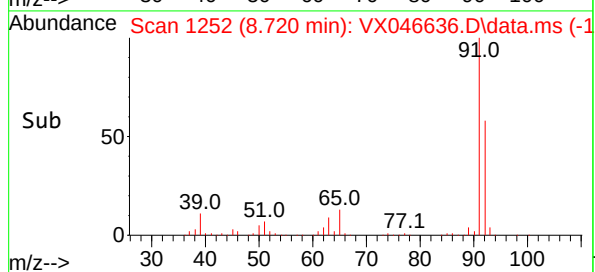
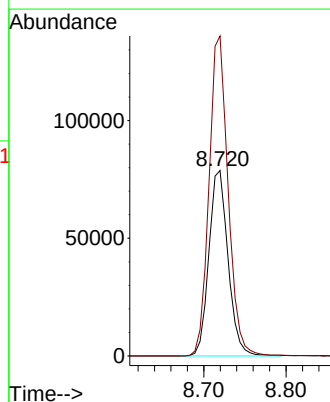
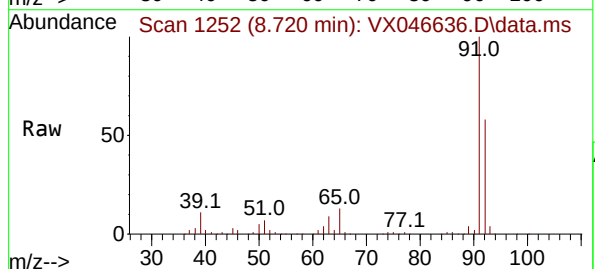
Manual Integrations
APPROVED

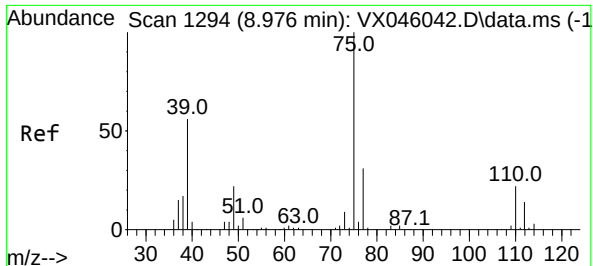
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#52
Toluene
Concen: 52.732 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion: 92 Resp: 127673
Ion Ratio Lower Upper
92 100
91 171.8 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 54.455 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 7682

Ion Ratio Lower Upper

75 100

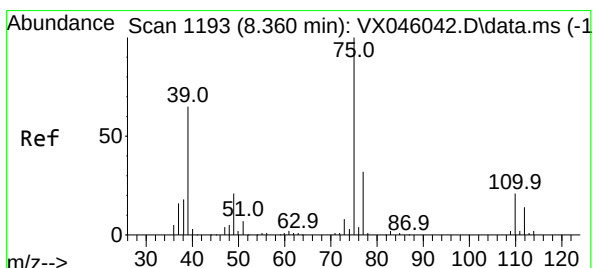
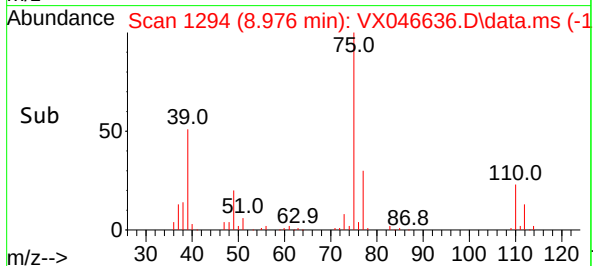
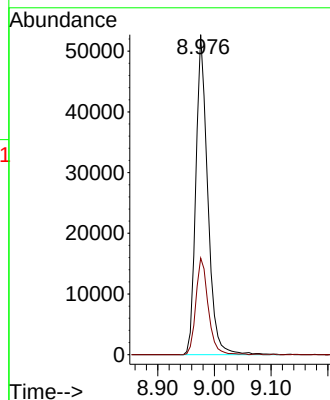
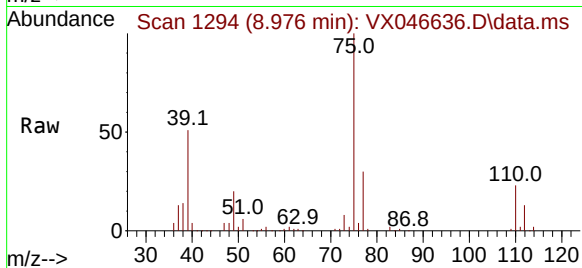
77 30.2 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#54

cis-1,3-Dichloropropene

Concen: 53.504 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

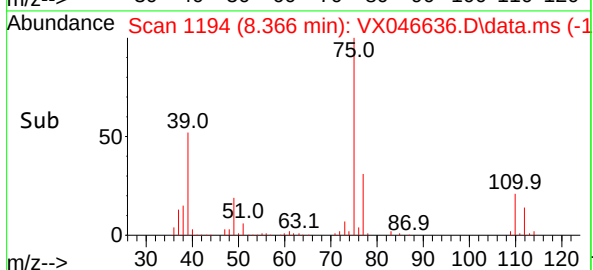
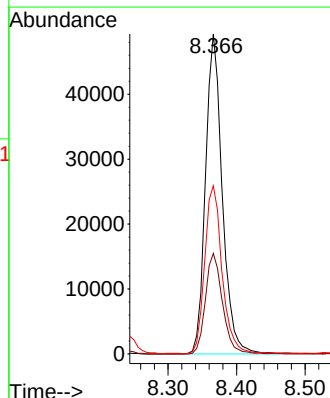
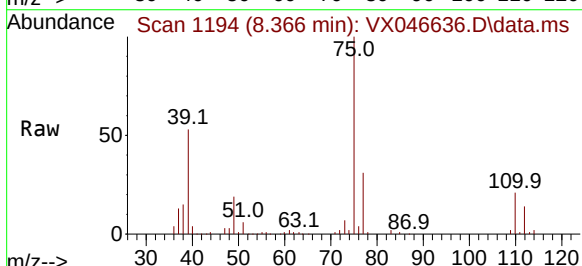
Tgt Ion: 75 Resp: 83927

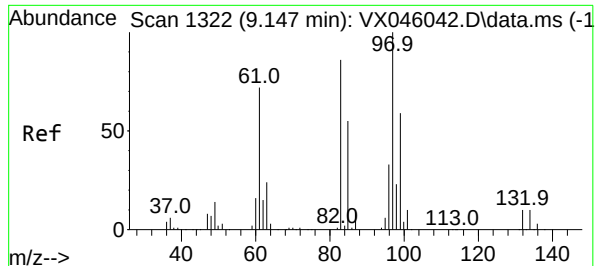
Ion Ratio Lower Upper

75 100

77 31.4 25.4 38.0

39 52.4 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 55.318 ug/l

RT: 9.152 min Scan# 1323

Delta R.T. -0.001 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 5376

Ion Ratio Lower Upper

97 100

83 84.0 69.0 103.6

85 56.1 44.3 66.5

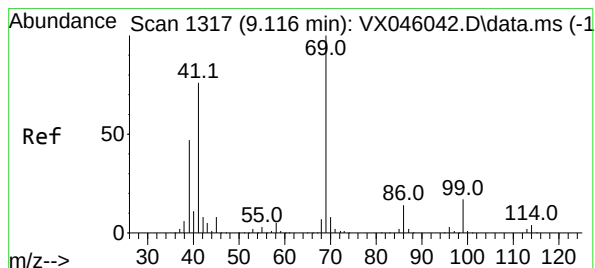
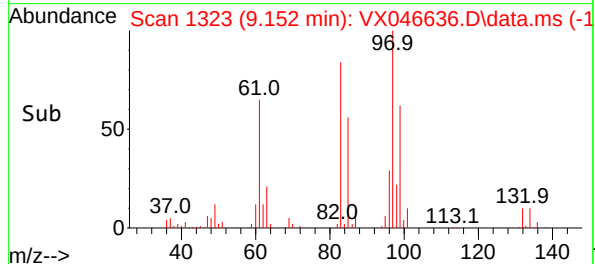
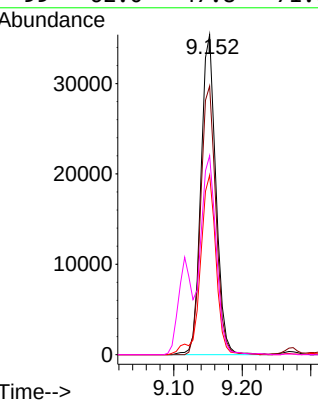
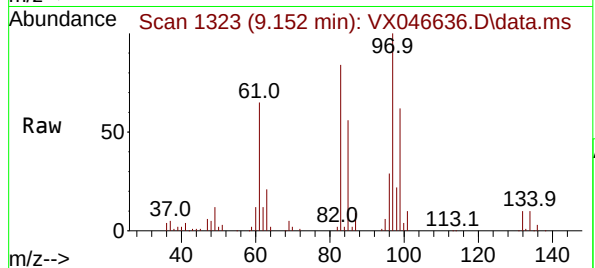
99 62.0 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#56

Ethyl methacrylate

Concen: 56.009 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

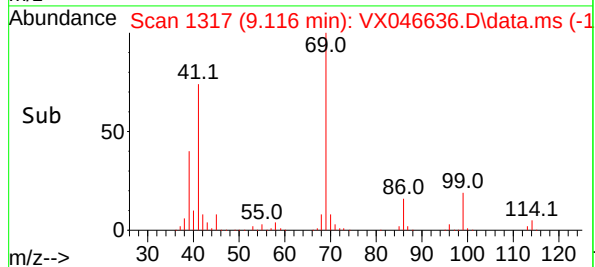
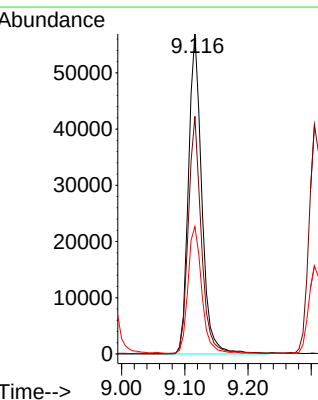
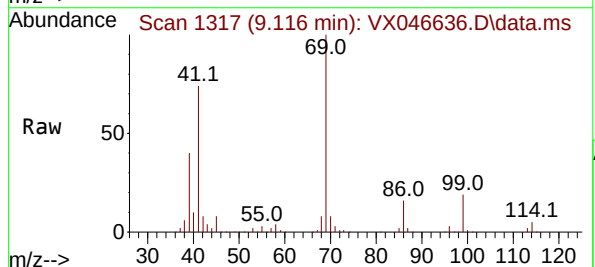
Tgt Ion: 69 Resp: 83775

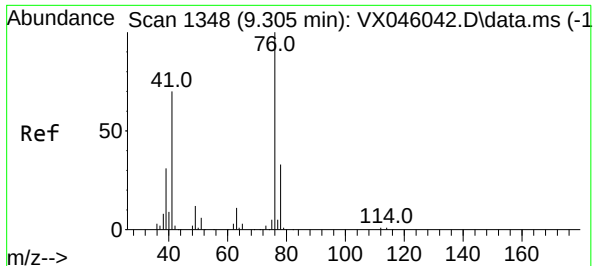
Ion Ratio Lower Upper

69 100

41 72.3 60.8 91.2

39 41.4 39.0 58.6





#57

1,3-Dichloropropane

Concen: 52.422 ug/l

RT: 9.305 min Scan# 11348

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 9004

Ion Ratio Lower Upper

76 100

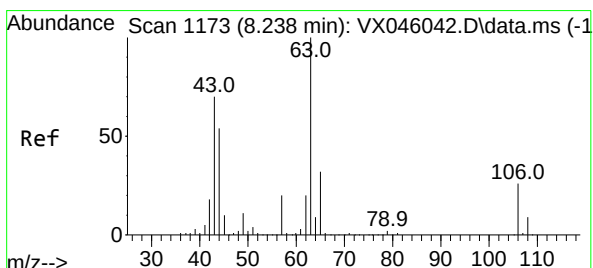
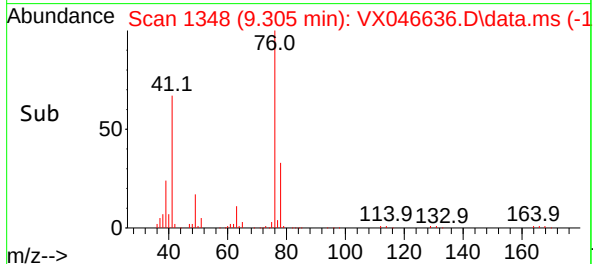
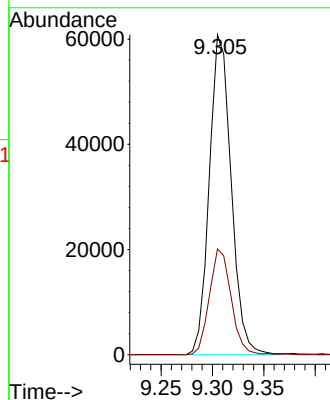
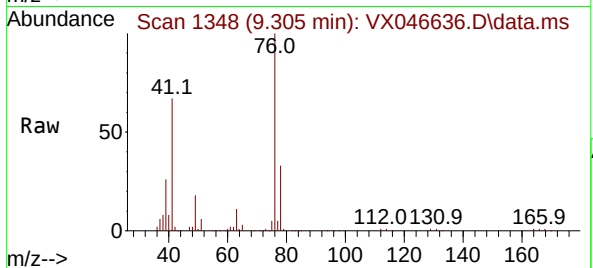
78 32.8 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#58

2-Chloroethyl Vinyl ether

Concen: 260.437 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.006 min

Lab File: VX046636.D

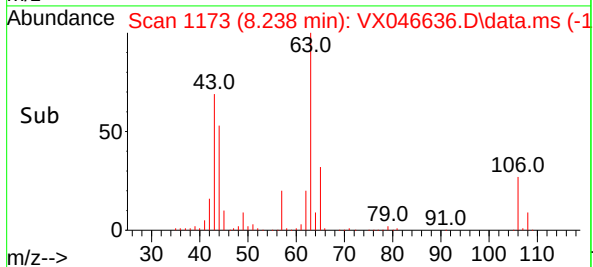
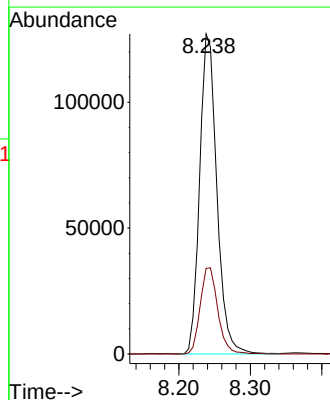
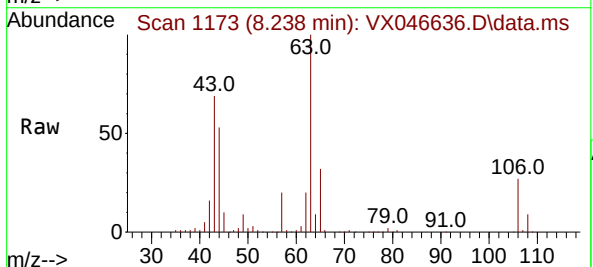
Acq: 11 Jun 2025 14:46

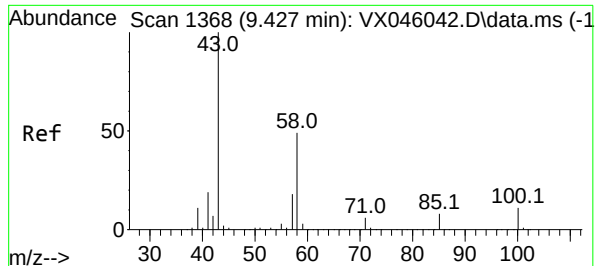
Tgt Ion: 63 Resp: 212181

Ion Ratio Lower Upper

63 100

106 27.5 21.5 32.3





#59

2-Hexanone

Concen: 259.182 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 281354

Ion Ratio Lower Upper

43 100

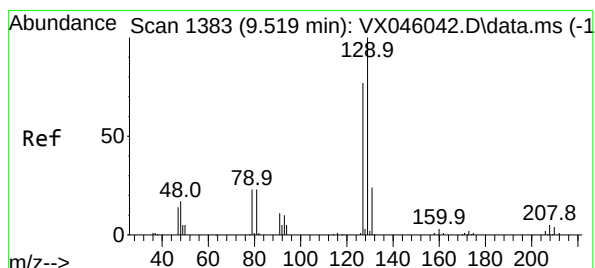
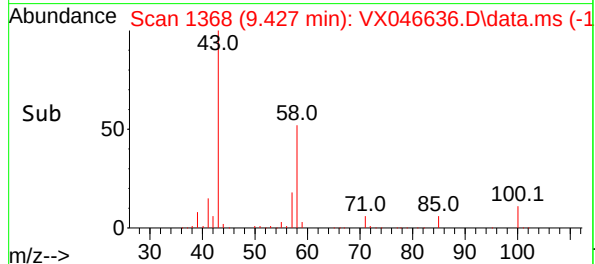
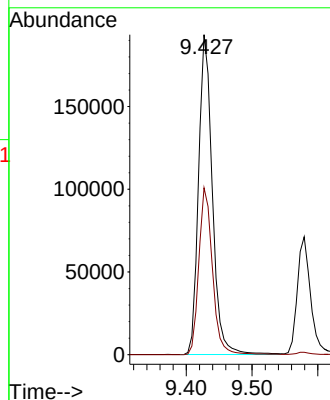
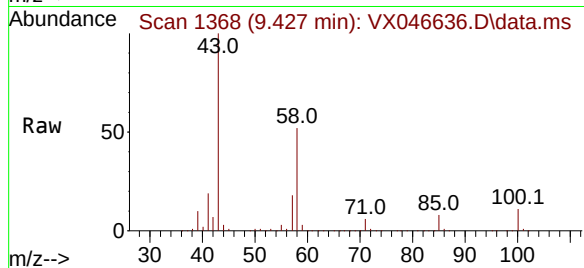
58 51.5 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#60

Dibromochloromethane

Concen: 55.050 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.007 min

Lab File: VX046636.D

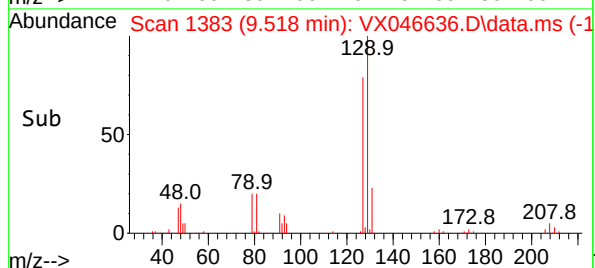
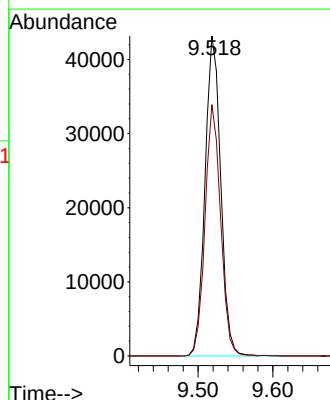
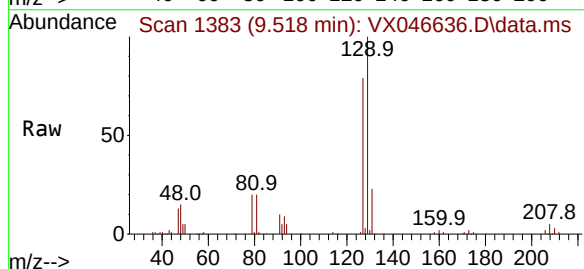
Acq: 11 Jun 2025 14:46

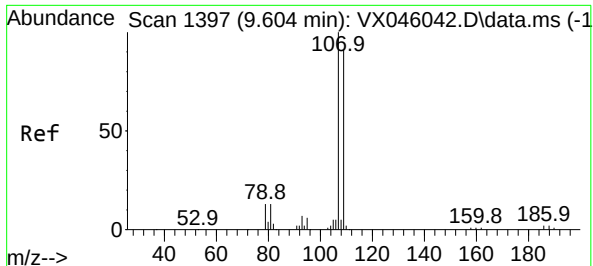
Tgt Ion:129 Resp: 62938

Ion Ratio Lower Upper

129 100

127 77.9 39.3 117.8





#61

1,2-Dibromoethane

Concen: 52.090 ug/l

RT: 9.610 min Scan# 1397

Delta R.T. -0.000 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:107 Resp: 52759

Ion Ratio Lower Upper

107 100

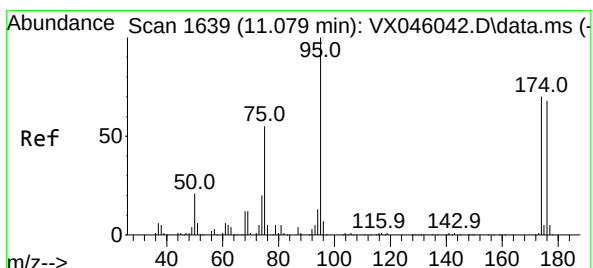
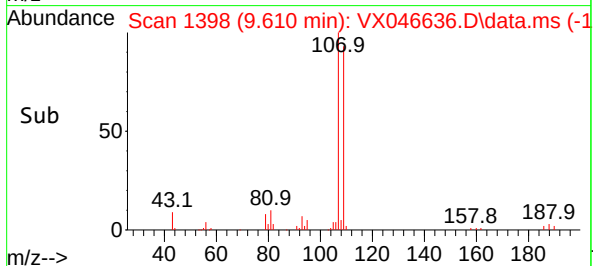
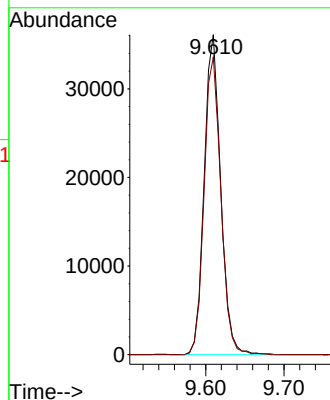
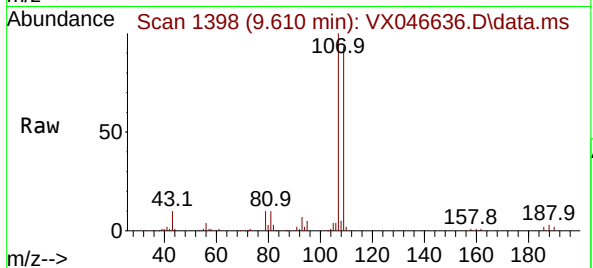
109 94.6 73.3 109.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#62

4-Bromofluorobenzene

Concen: 50.160 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

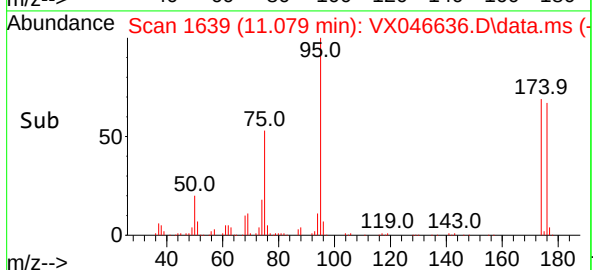
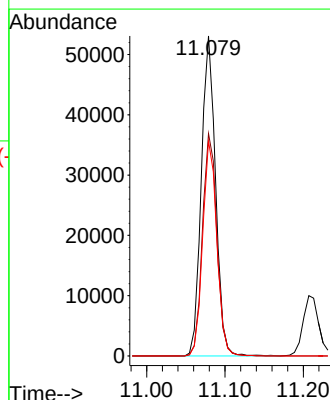
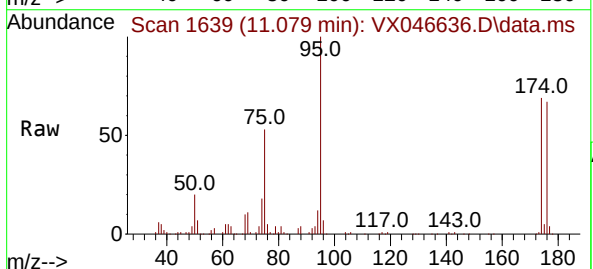
Tgt Ion: 95 Resp: 67056

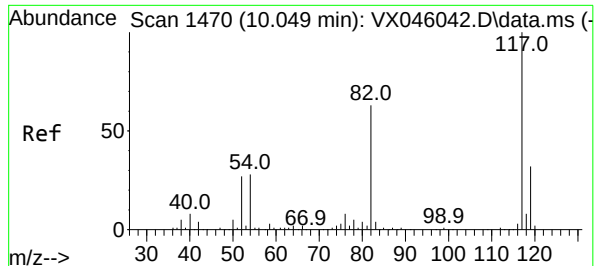
Ion Ratio Lower Upper

95 100

174 70.2 0.0 135.8

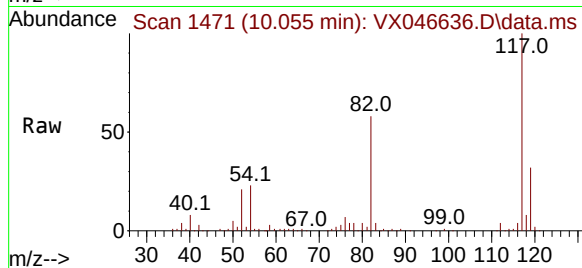
176 66.6 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

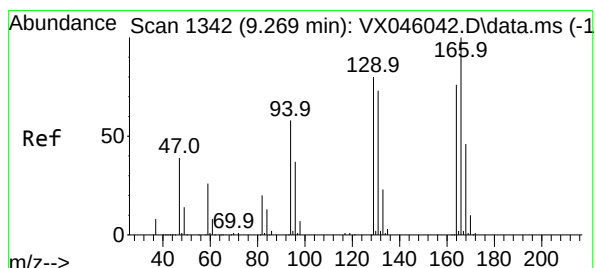
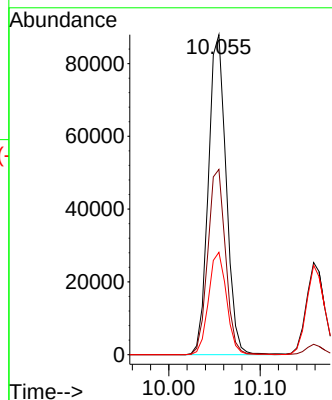
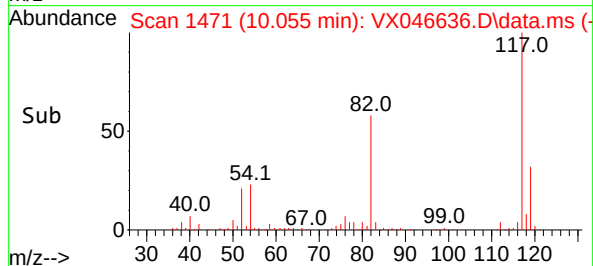
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:117 Resp: 119180
Ion Ratio Lower Upper
117 100
82 57.9 50.6 76.0
119 32.0 25.8 38.6

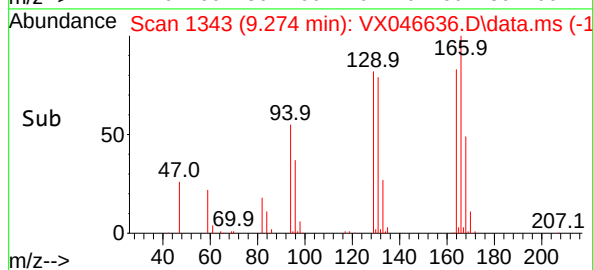
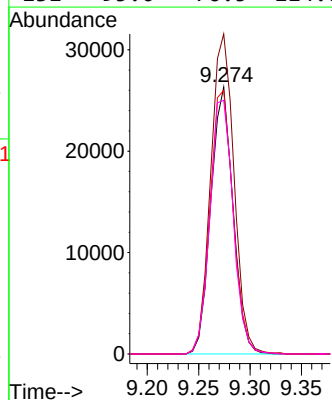
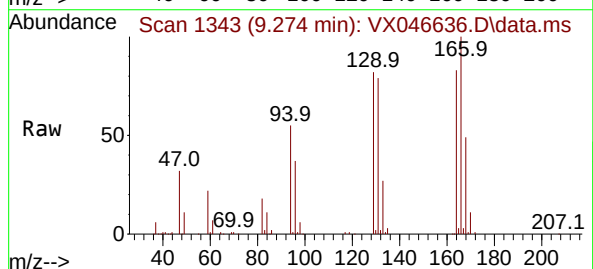
Manual Integrations
APPROVED

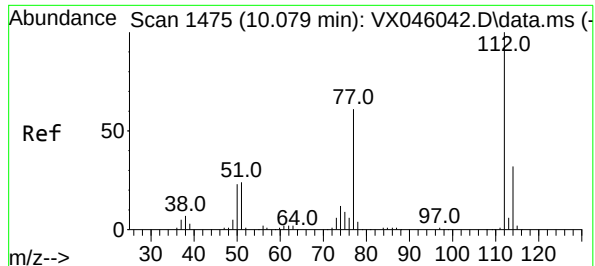
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#64
Tetrachloroethene
Concen: 49.417 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. -0.001 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion:164 Resp: 39385
Ion Ratio Lower Upper
164 100
166 119.9 105.0 157.6
129 98.7 83.5 125.3
131 95.0 76.5 114.7





#65

Chlorobenzene

Concen: 51.980 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:112 Resp: 14570

Ion Ratio Lower Upper

112 100

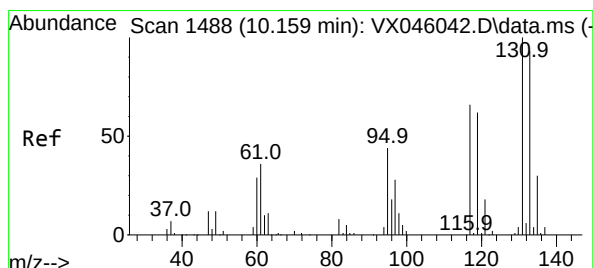
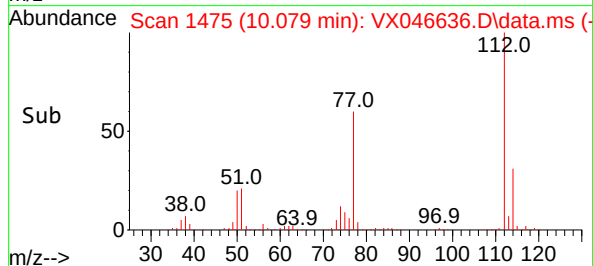
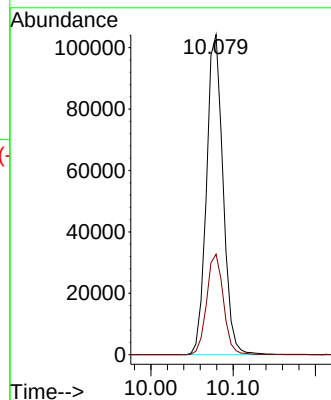
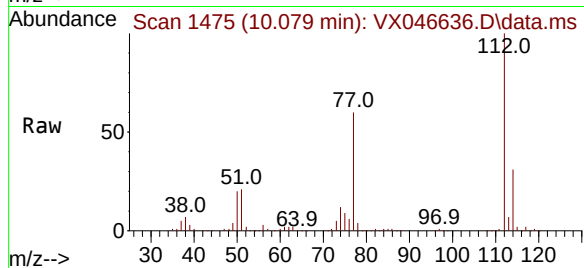
114 31.4 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 55.199 ug/l

RT: 10.158 min Scan# 1488

Delta R.T. -0.007 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

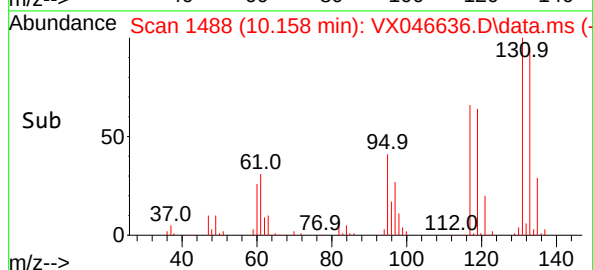
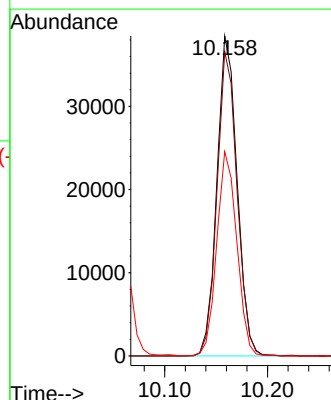
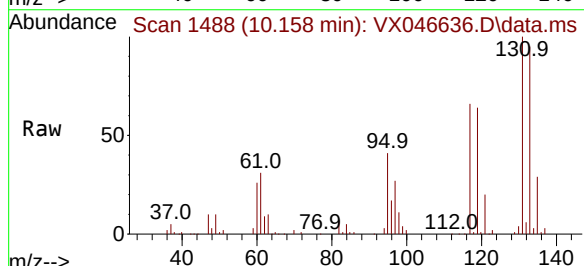
Tgt Ion:131 Resp: 52286

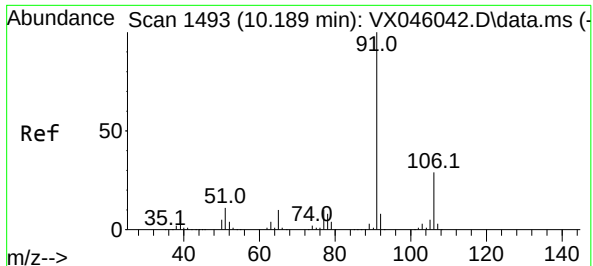
Ion Ratio Lower Upper

131 100

133 94.9 47.3 141.9

119 63.6 31.6 95.0





#67

Ethyl Benzene

Concen: 51.724 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. -0.000 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 25311

Ion Ratio Lower Upper

91 100

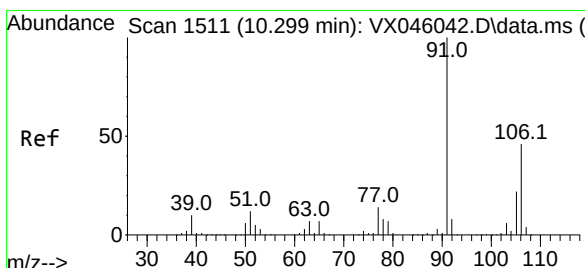
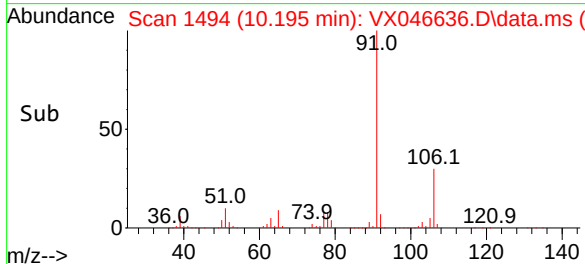
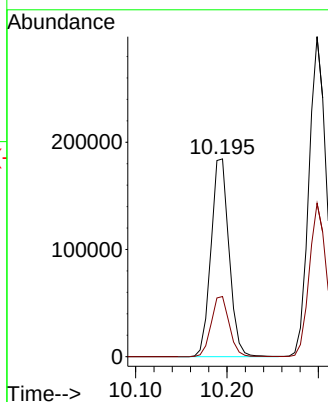
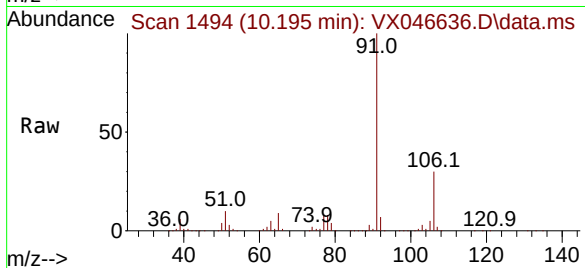
106 30.4 23.4 35.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#68

m/p-Xylenes

Concen: 106.345 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX046636.D

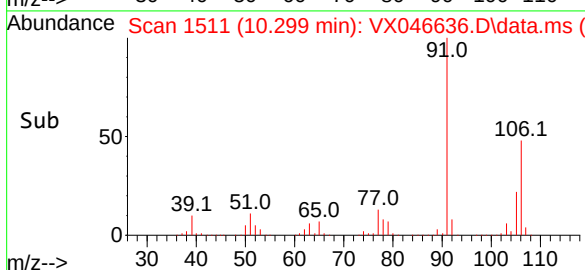
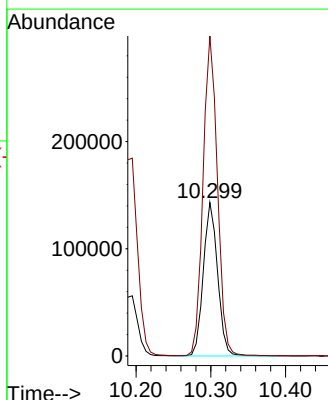
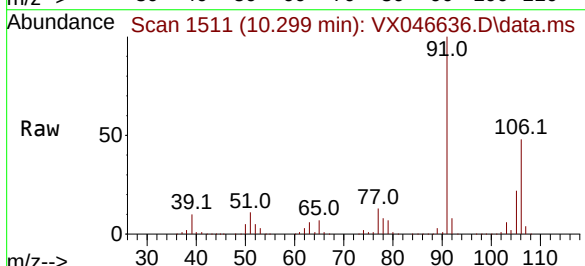
Acq: 11 Jun 2025 14:46

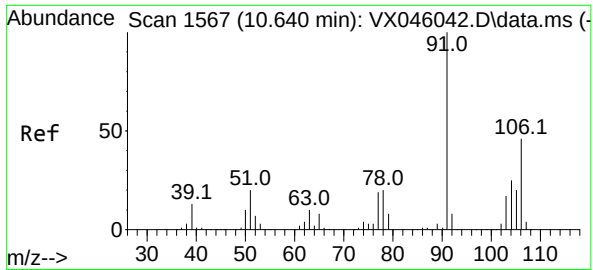
Tgt Ion:106 Resp: 188777

Ion Ratio Lower Upper

106 100

91 210.7 171.2 256.8





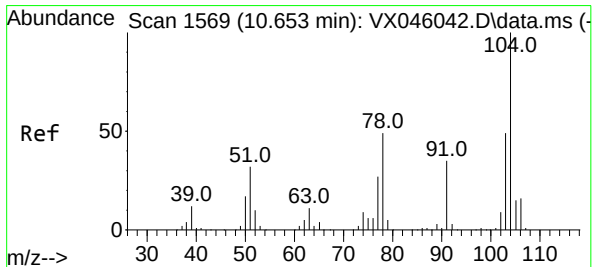
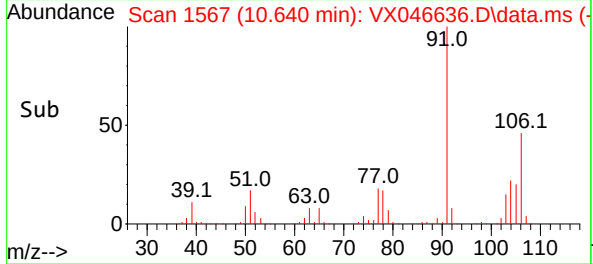
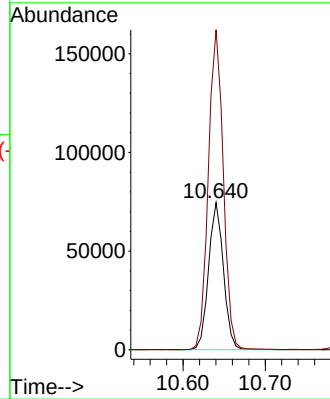
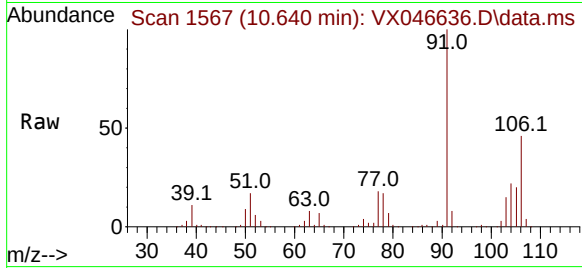
#69
o-Xylene
Concen: 54.541 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 93640
Ion Ratio Lower Upper
106 100
91 219.1 112.7 338.1

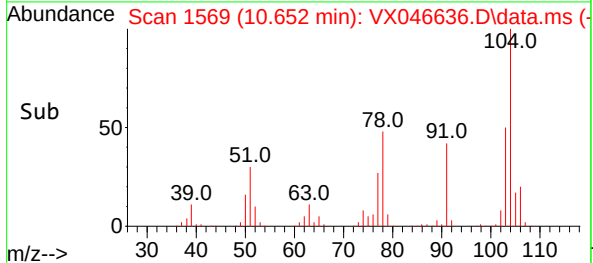
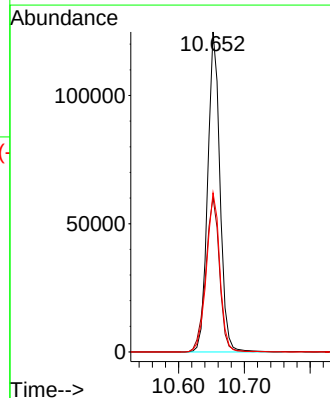
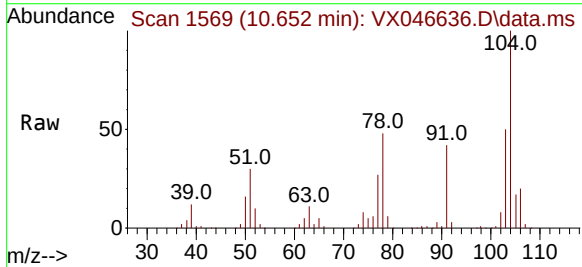
Manual Integrations
APPROVED

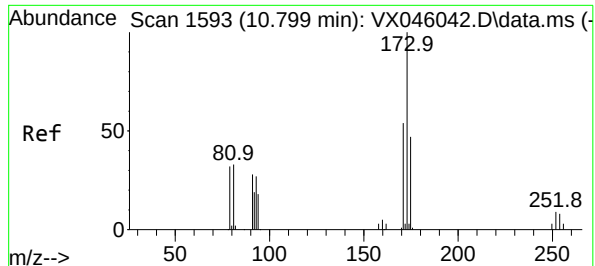
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#70
Styrene
Concen: 55.064 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion:104 Resp: 161841
Ion Ratio Lower Upper
104 100
78 54.0 45.7 68.5
103 54.3 43.7 65.5





#71

Bromoform

Concen: 54.781 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

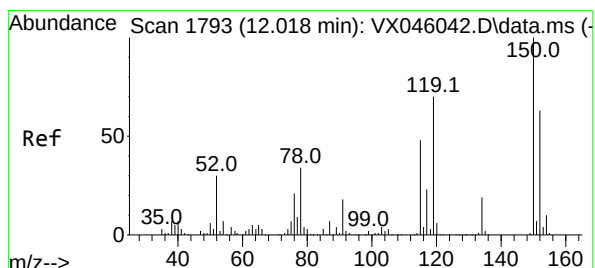
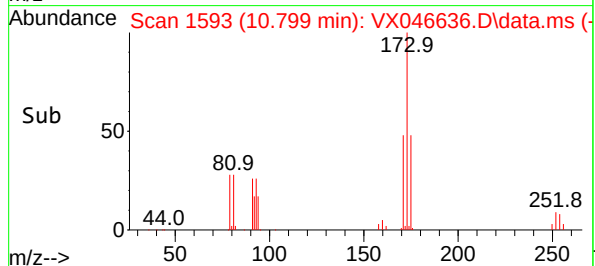
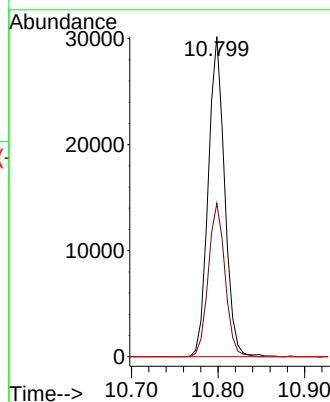
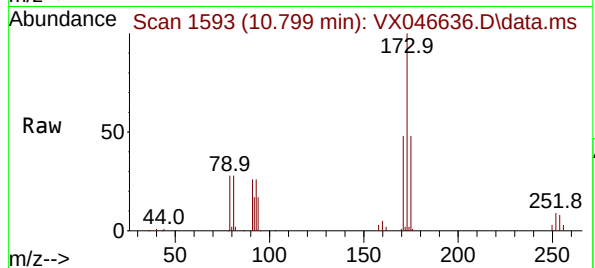
ClientSampleId :

VSTDCCC050

Tgt Ion:	173	Resp:	3956
Ion Ratio	Lower	Upper	
173	100		
175	49.0	23.4	70.0
254	0.0	0.0	0.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

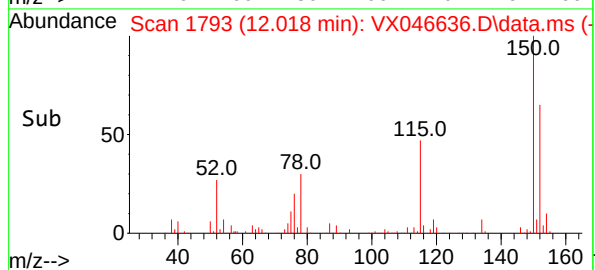
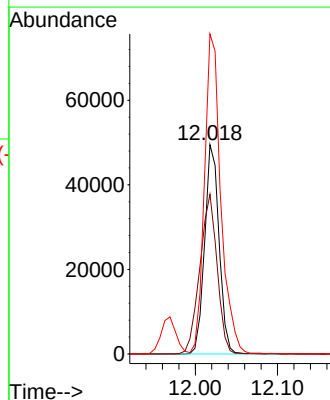
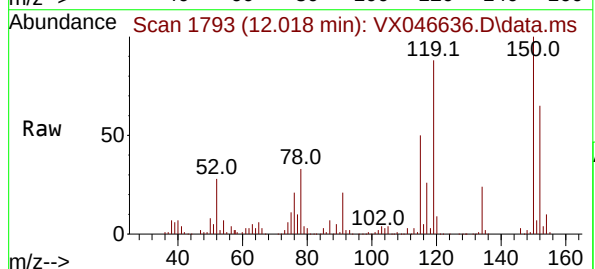
RT: 12.018 min Scan# 1793

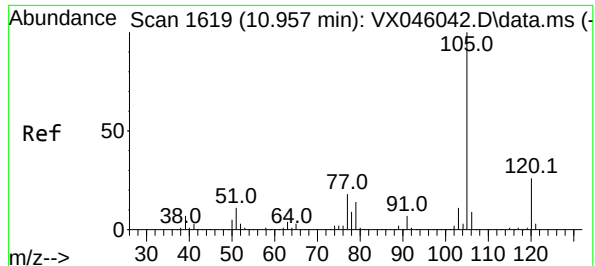
Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Tgt Ion:	152	Resp:	60295
Ion Ratio	Lower	Upper	
152	100		
115	91.4	46.9	140.7
150	173.1	0.0	351.0





#73

Isopropylbenzene

Concen: 52.958 ug/l

RT: 10.963 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 251010

Ion Ratio Lower Upper

105 100

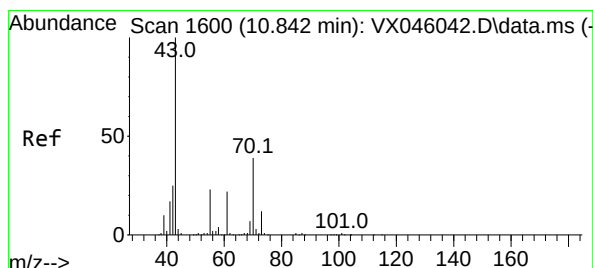
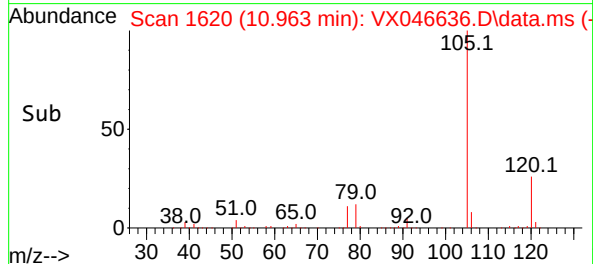
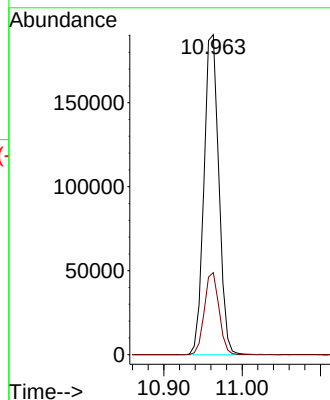
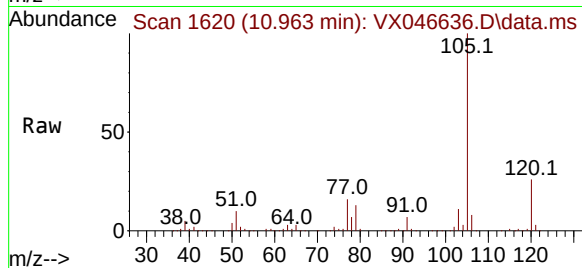
120 25.3 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#74

N-ethyl acetate

Concen: 53.026 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. 0.000 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Tgt Ion: 43 Resp: 110680

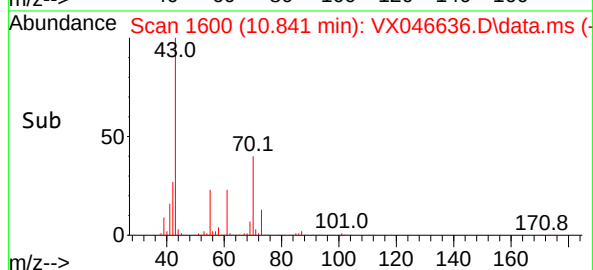
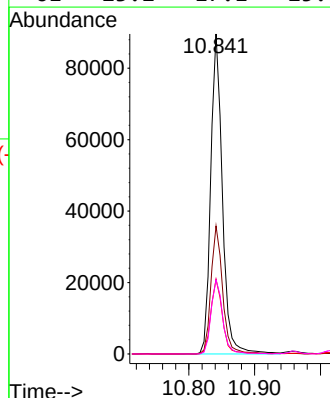
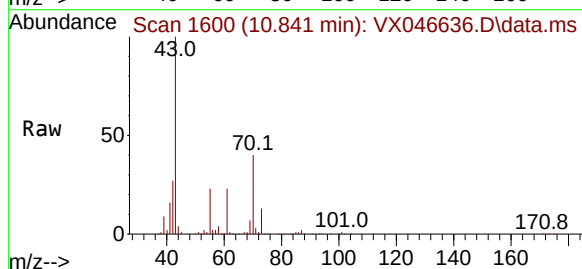
Ion Ratio Lower Upper

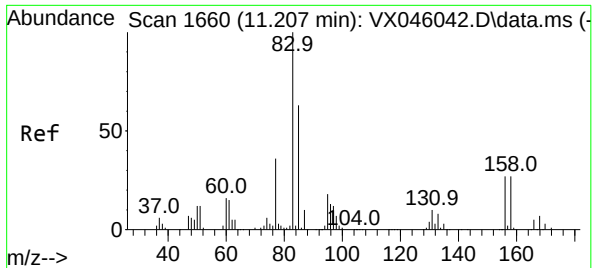
43 100

70 40.1 30.9 46.3

55 23.4 18.7 28.1

61 23.2 17.1 25.7





#75

1,1,2,2-Tetrachloroethane

Concen: 52.379 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 7946

Ion Ratio Lower Upper

83 100

131 10.2 5.0 14.9

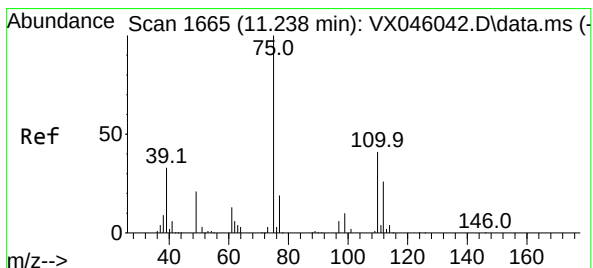
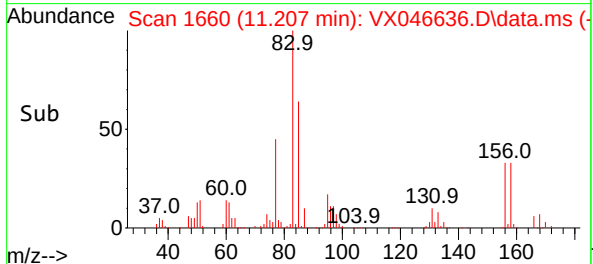
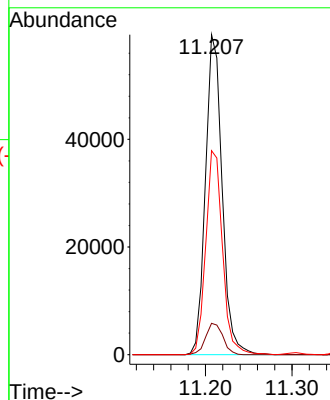
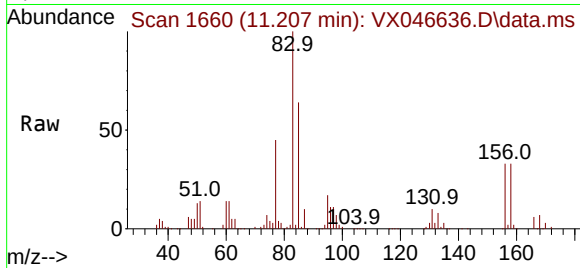
85 64.1 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#76

1,2,3-Trichloropropane

Concen: 51.509 ug/l m

RT: 11.237 min Scan# 1665

Delta R.T. -0.001 min

Lab File: VX046636.D

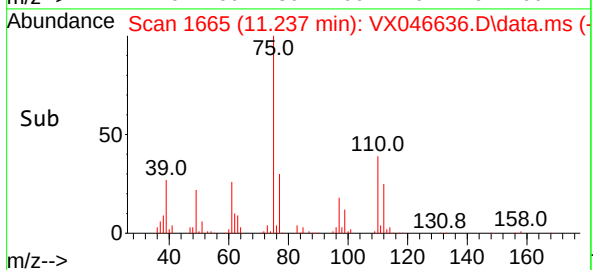
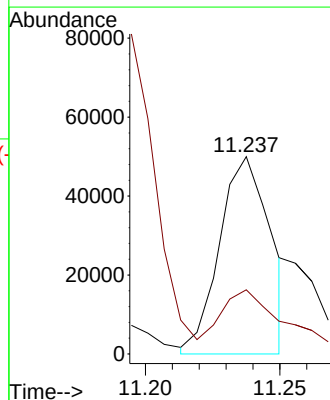
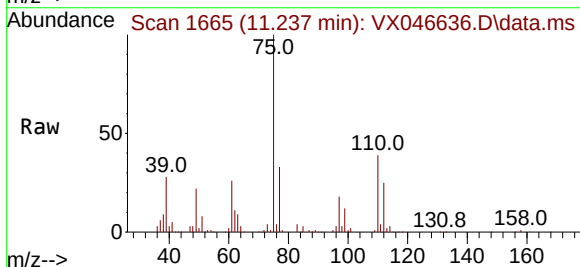
Acq: 11 Jun 2025 14:46

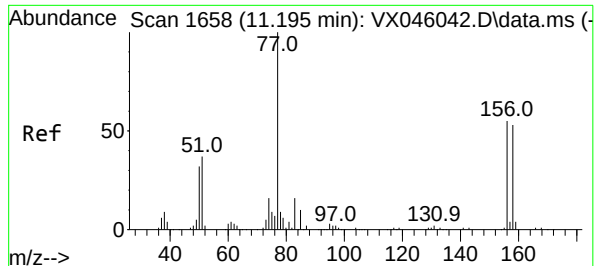
Tgt Ion: 75 Resp: 65783

Ion Ratio Lower Upper

75 100

77 42.1 20.5 61.5





#77

Bromobenzene

Concen: 52.592 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

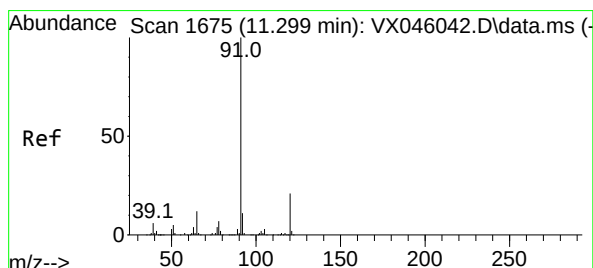
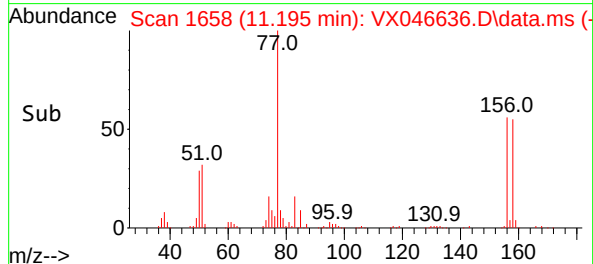
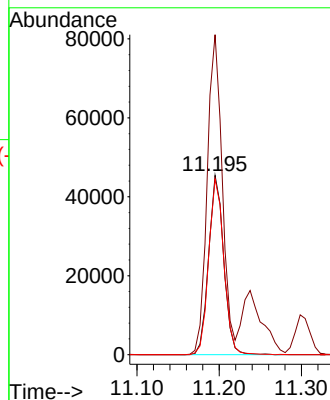
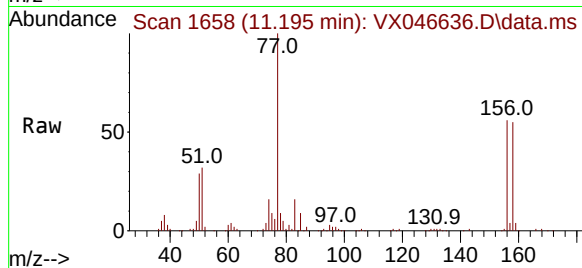
VSTDCCC050

Tgt Ion:	156	Resp:	5785
Ion Ratio	Lower	Upper	
156	100		
77	178.3	92.8	278.3
158	98.8	48.8	146.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#78

n-propylbenzene

Concen: 51.885 ug/l

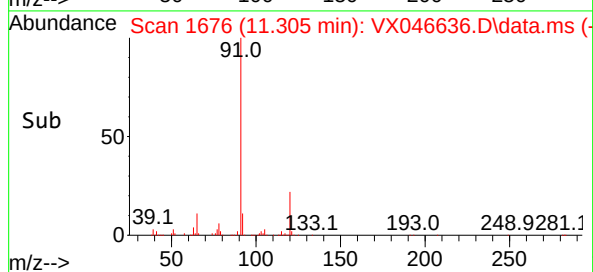
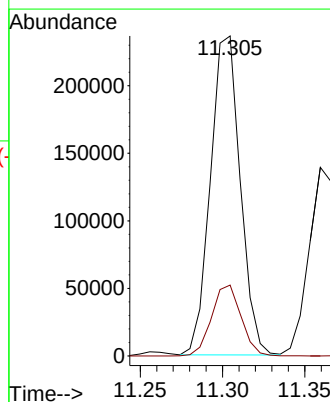
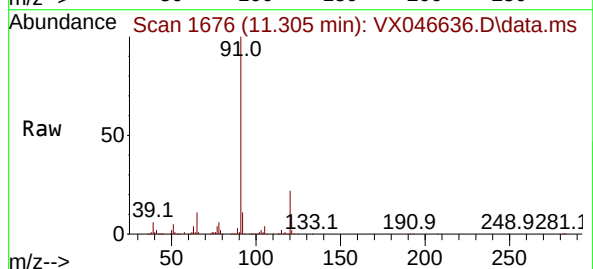
RT: 11.305 min Scan# 1676

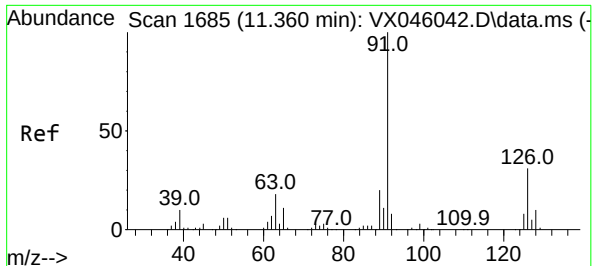
Delta R.T. -0.000 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Tgt Ion:	91	Resp:	297656
Ion Ratio	Lower	Upper	
91	100		
120	22.0	10.8	32.4





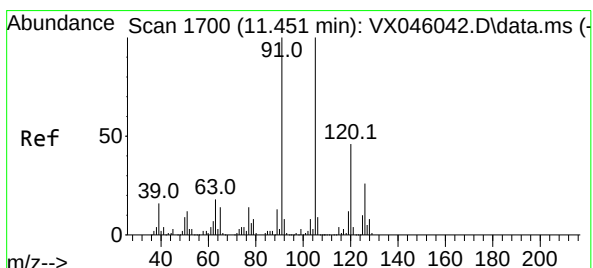
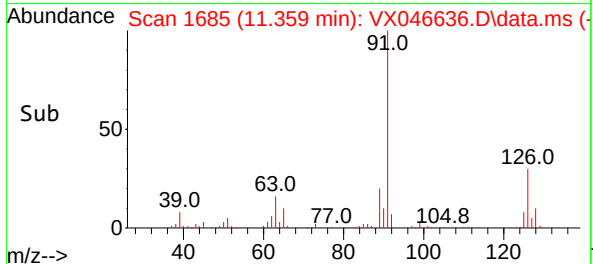
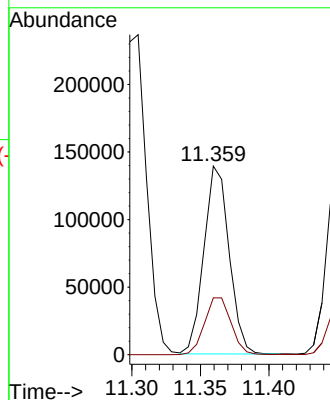
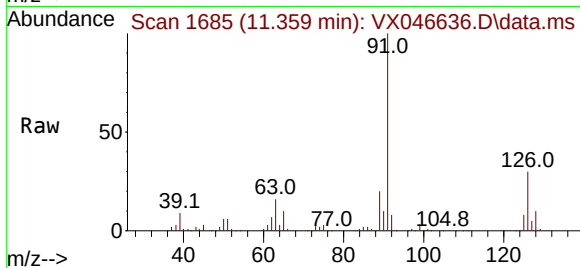
#79
2-Chlorotoluene
Concen: 51.487 ug/l
RT: 11.359 min Scan# 1685
Delta R.T. -0.007 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 17811
Ion Ratio Lower Upper
91 100
126 31.9 15.6 46.7

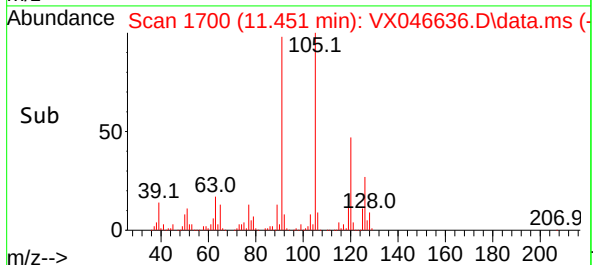
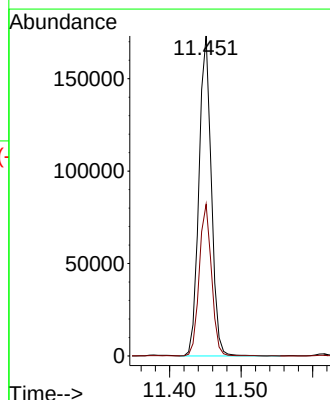
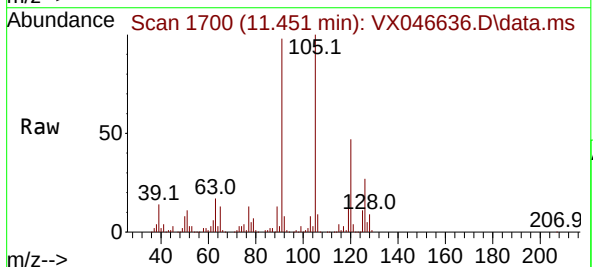
Manual Integrations
APPROVED

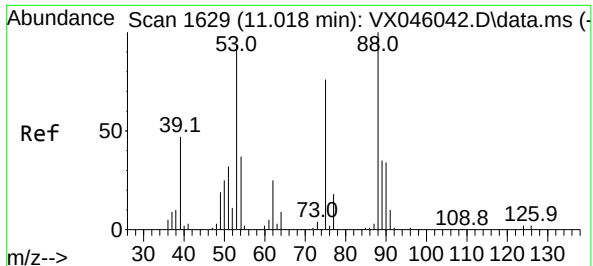
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#80
1,3,5-Trimethylbenzene
Concen: 52.565 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion:105 Resp: 207616
Ion Ratio Lower Upper
105 100
120 47.1 23.1 69.2





#81

trans-1,4-Dichloro-2-butene

Concen: 51.862 ug/l

RT: 11.018 min Scan# 1629

Delta R.T. 0.000 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 2296

Ion Ratio Lower Upper

75 100

53 115.0 100.5 150.7

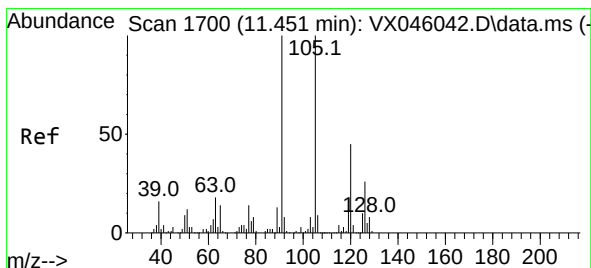
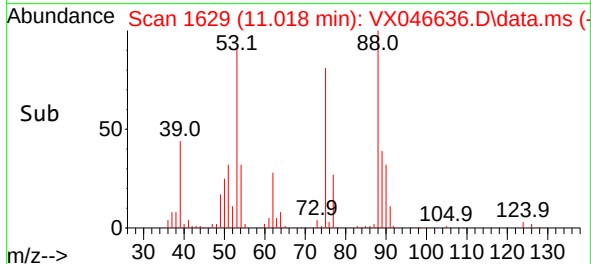
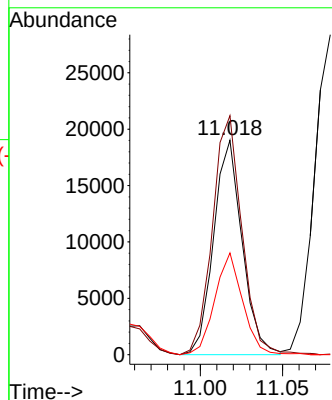
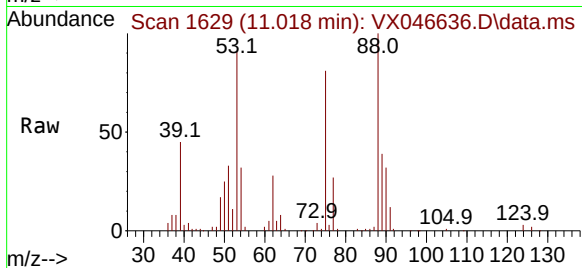
89 46.4 37.0 55.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#82

4-Chlorotoluene

Concen: 50.910 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX046636.D

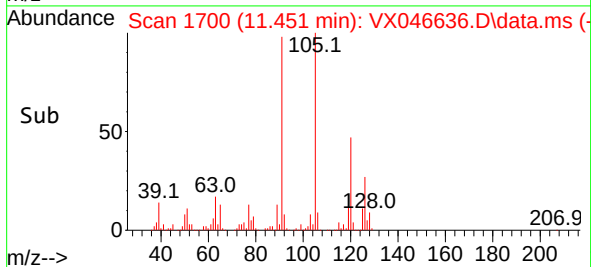
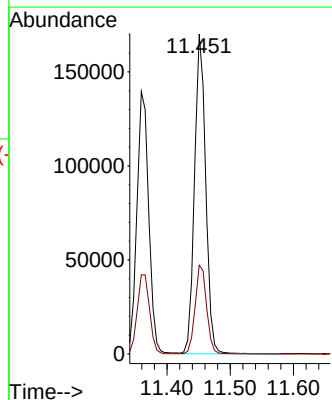
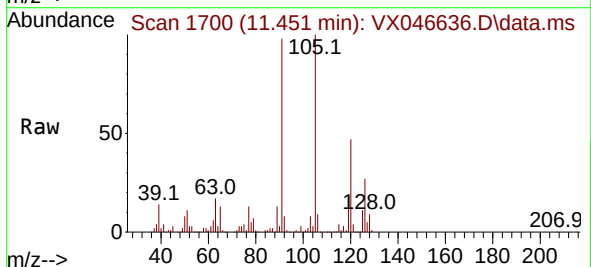
Acq: 11 Jun 2025 14:46

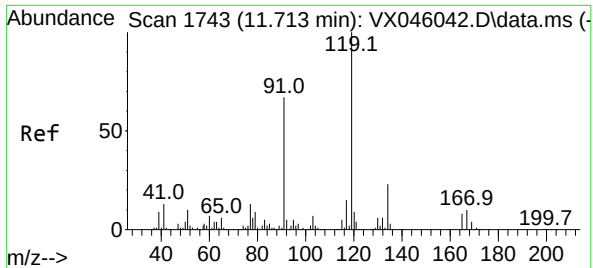
Tgt Ion: 91 Resp: 208757

Ion Ratio Lower Upper

91 100

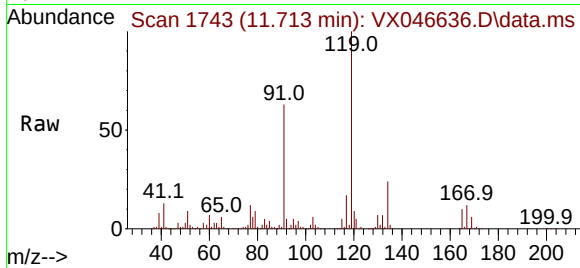
126 28.6 13.3 39.8





#83
tert-Butylbenzene
Concen: 53.295 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

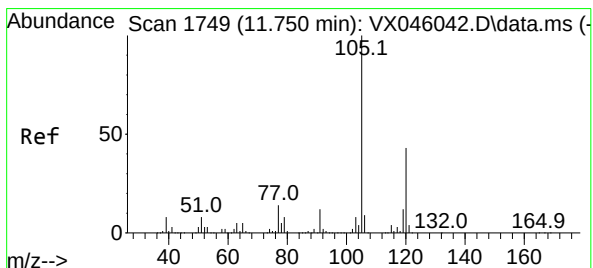
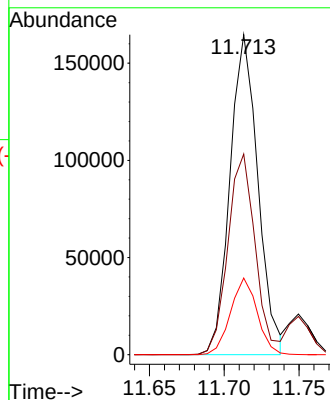
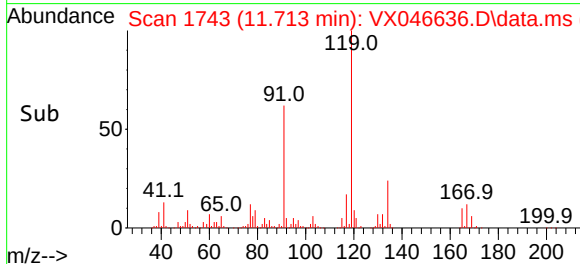
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



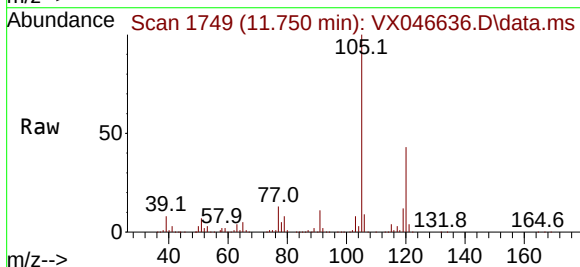
Tgt Ion:119 Resp: 214284
Ion Ratio Lower Upper
119 100
91 61.6 32.9 98.7
134 22.9 11.4 34.1

Manual Integrations
APPROVED

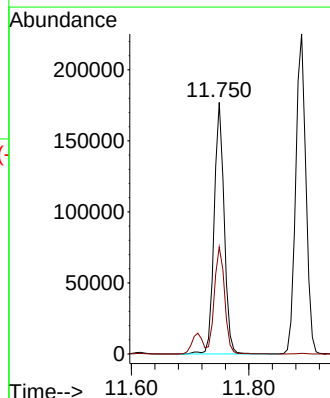
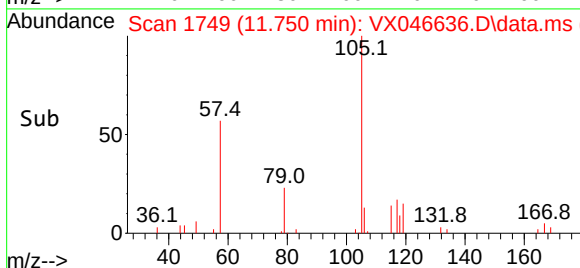
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

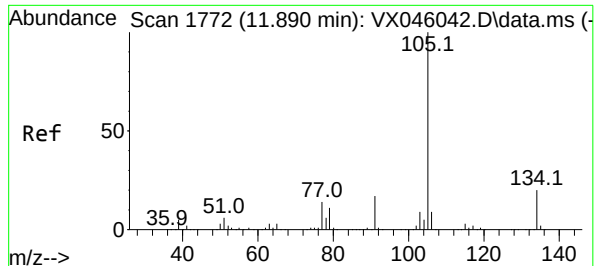


#84
1,2,4-Trimethylbenzene
Concen: 52.454 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46



Tgt Ion:105 Resp: 209586
Ion Ratio Lower Upper
105 100
120 43.9 21.2 63.6





#85

sec-Butylbenzene

Concen: 52.573 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 27160

Ion Ratio Lower Upper

105 100

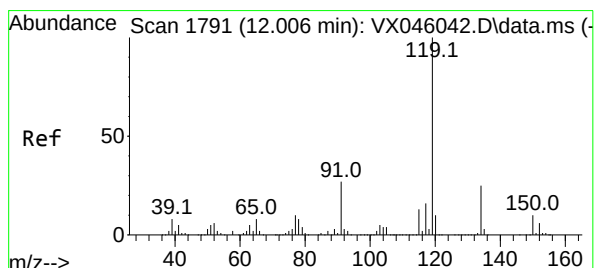
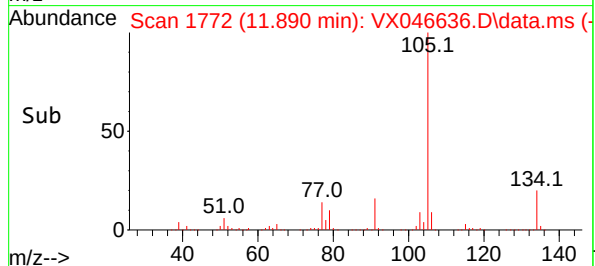
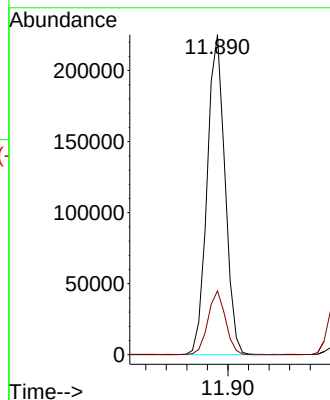
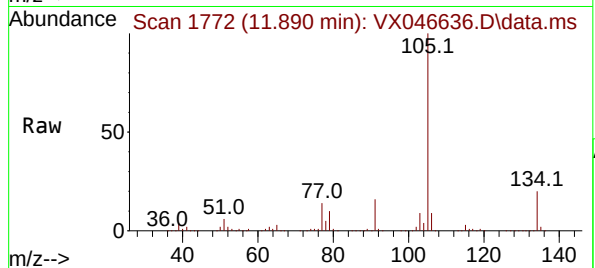
134 19.6 9.7 29.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#86

p-Isopropyltoluene

Concen: 52.107 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

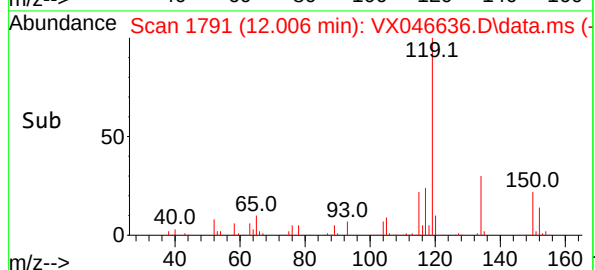
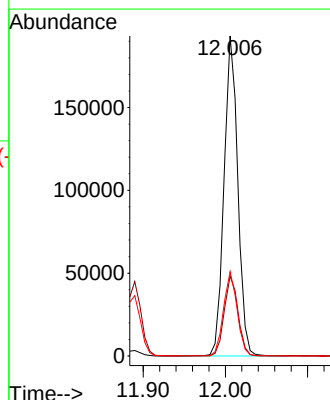
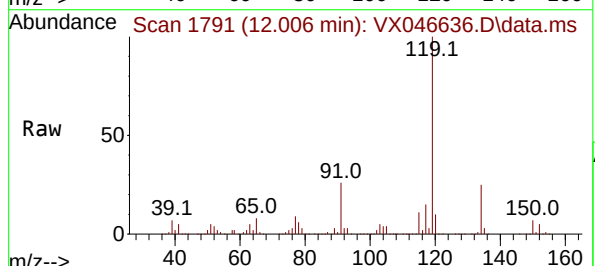
Tgt Ion:119 Resp: 224421

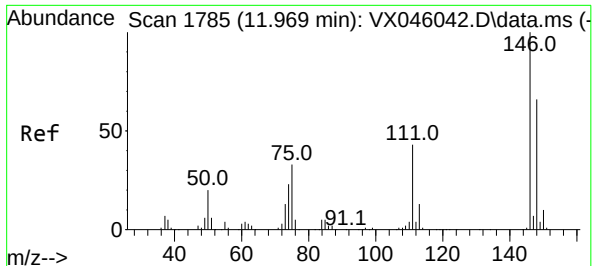
Ion Ratio Lower Upper

119 100

134 25.0 12.5 37.5

91 26.2 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 52.221 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 11156

Ion Ratio Lower Upper

146 100

111 43.0 22.1 66.3

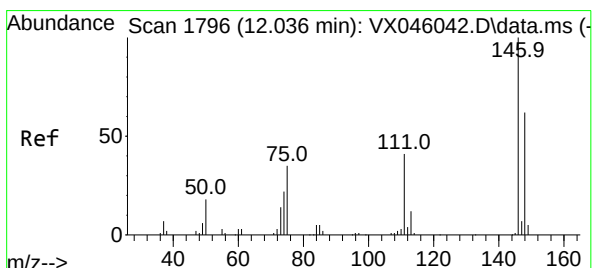
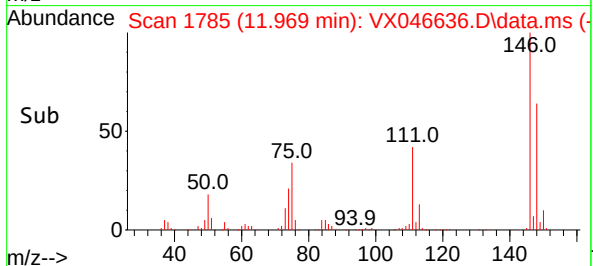
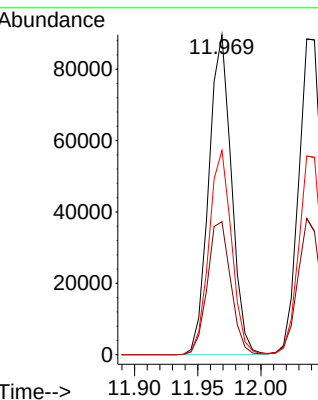
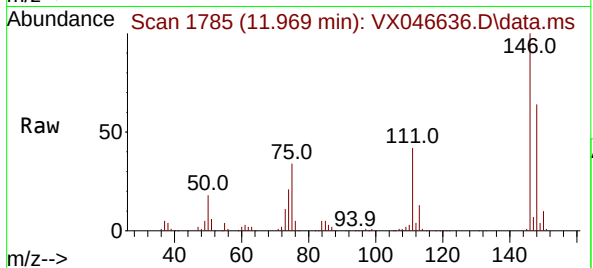
148 64.0 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#88

1,4-Dichlorobenzene

Concen: 51.383 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

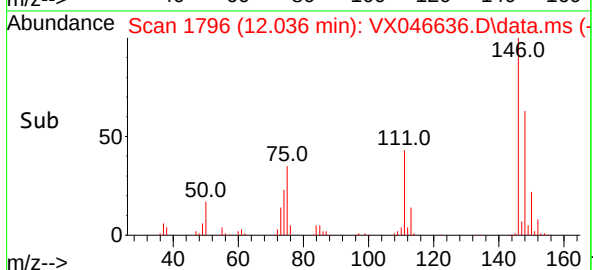
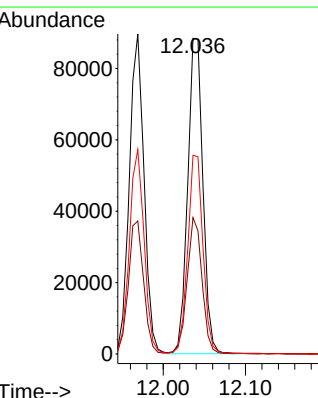
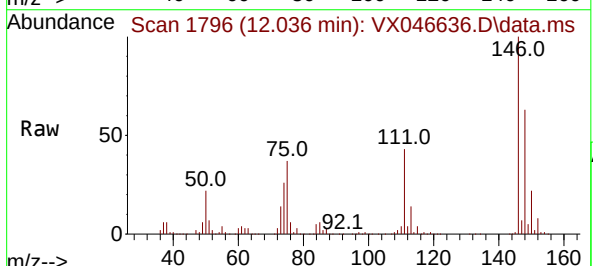
Tgt Ion:146 Resp: 113744

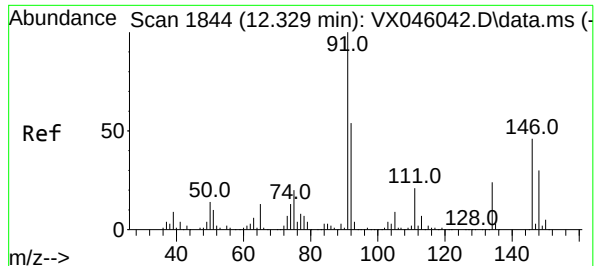
Ion Ratio Lower Upper

146 100

111 42.3 21.3 63.9

148 63.2 31.9 95.5





#89

n-Butylbenzene

Concen: 50.742 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 21461

Ion Ratio Lower Upper

91 100

92 54.6 26.9 80.7

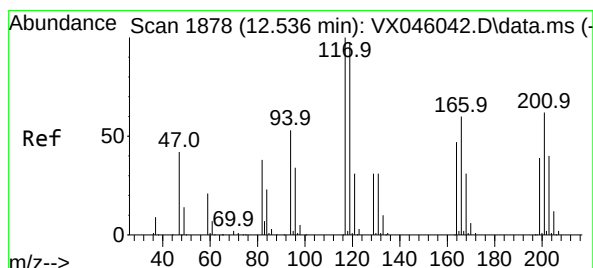
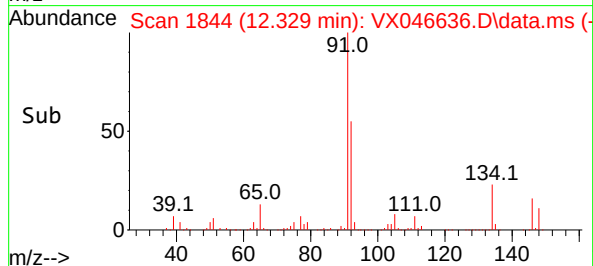
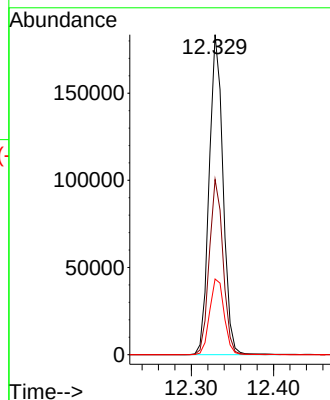
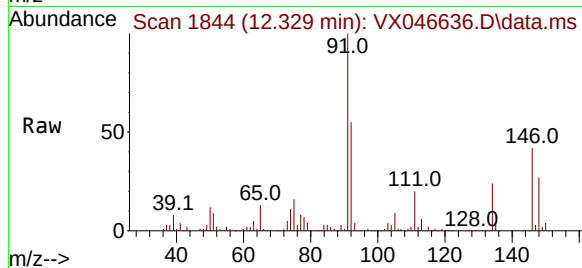
134 24.9 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#90

Hexachloroethane

Concen: 50.802 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046636.D

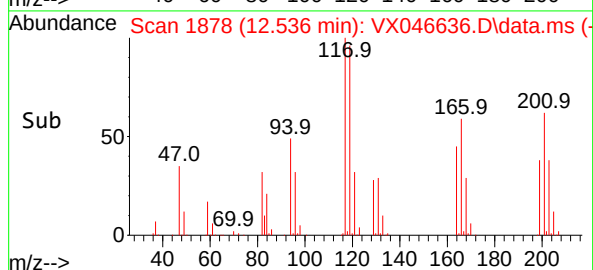
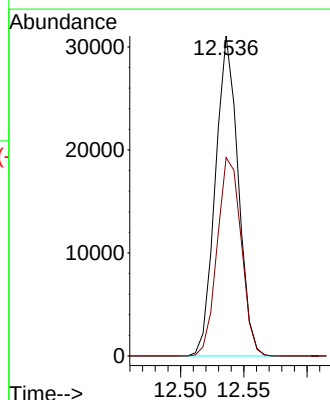
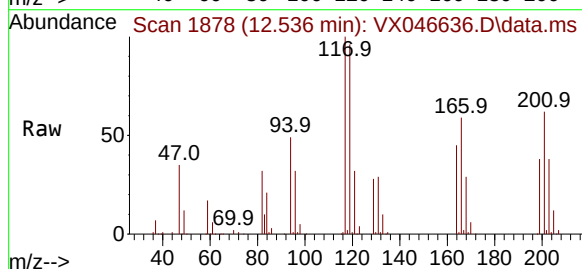
Acq: 11 Jun 2025 14:46

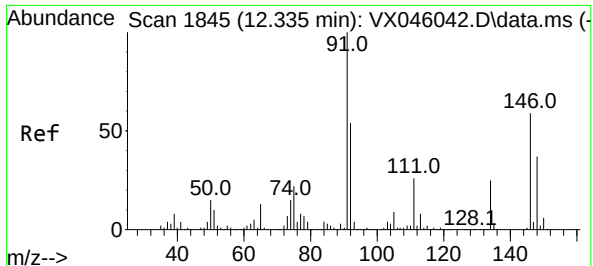
Tgt Ion:117 Resp: 38889

Ion Ratio Lower Upper

117 100

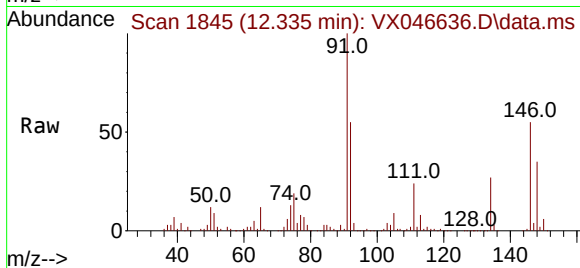
201 65.4 31.6 94.7





#91
1,2-Dichlorobenzene
Concen: 52.399 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

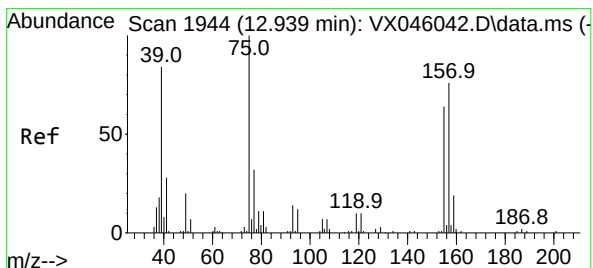
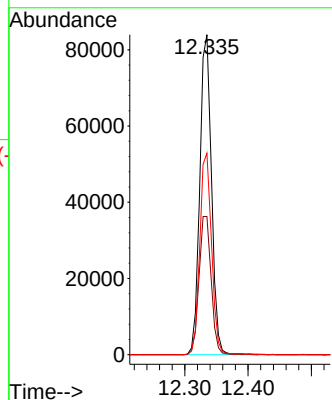
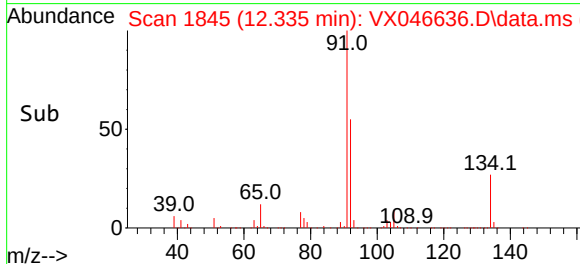
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 10805
Ion Ratio Lower Upper
146 100
111 45.0 22.4 67.3
148 63.5 31.6 94.8

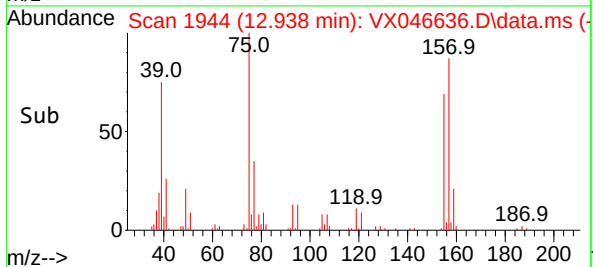
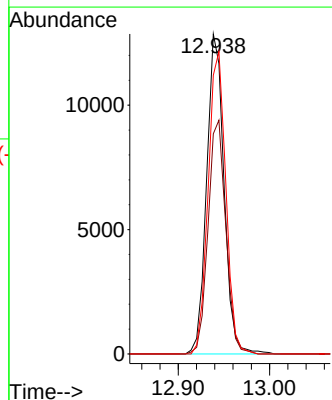
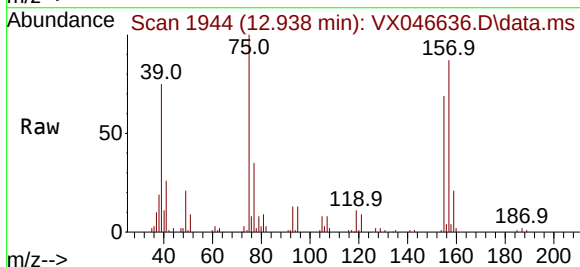
Manual Integrations
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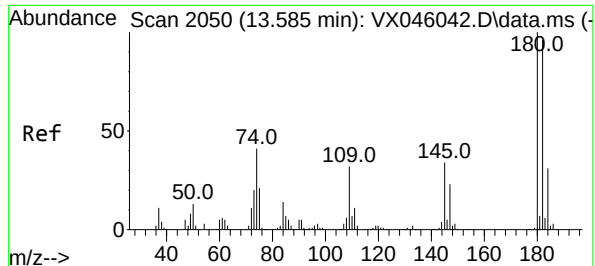
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 49.901 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.001 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

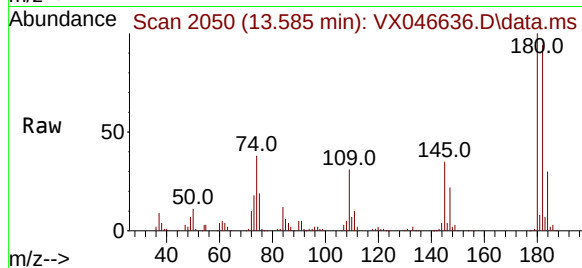
Tgt Ion: 75 Resp: 16953
Ion Ratio Lower Upper
75 100
155 74.4 34.9 104.8
157 95.7 43.8 131.4





#93
1,2,4-Trichlorobenzene
Concen: 52.453 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

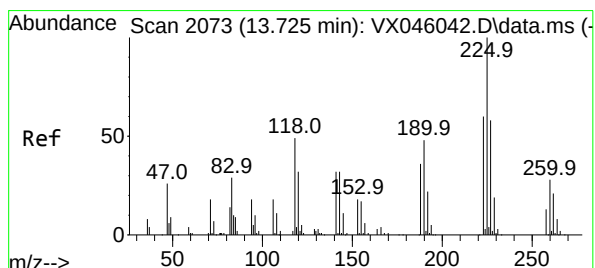
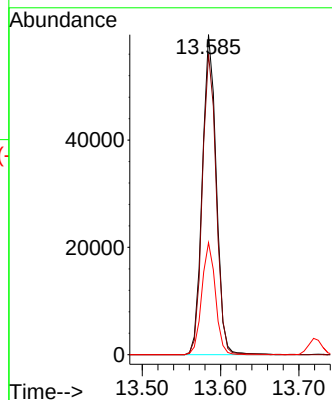
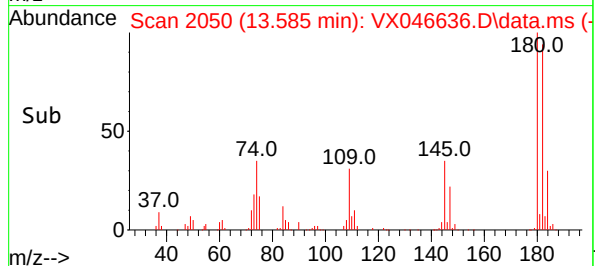
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



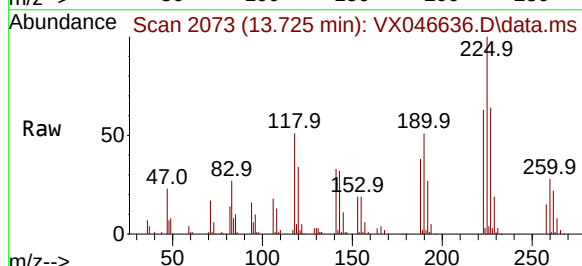
Tgt Ion:180 Resp: 73780
Ion Ratio Lower Upper
180 100
182 94.0 47.9 143.8
145 34.1 17.1 51.2

Manual Integrations
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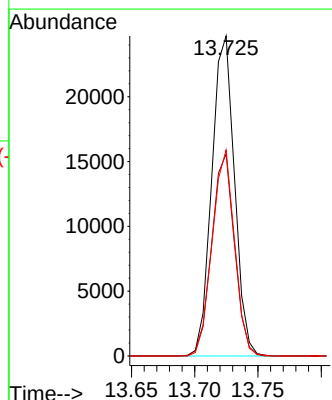
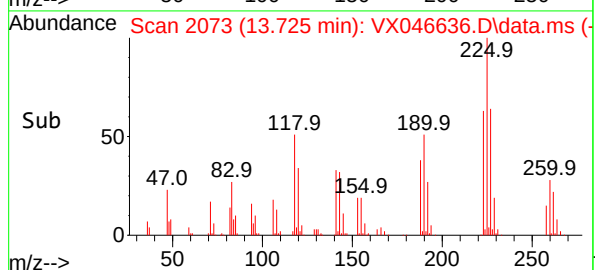
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

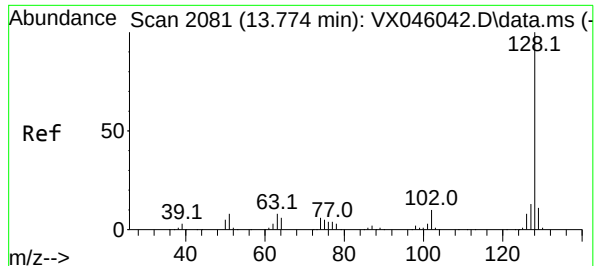


#94
Hexachlorobutadiene
Concen: 47.005 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46



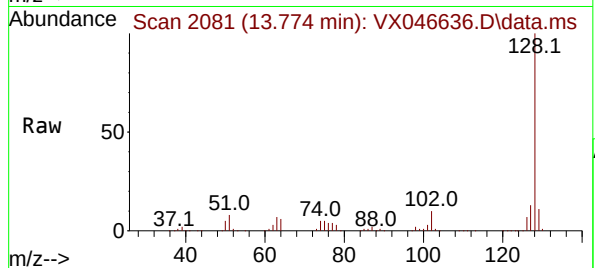
Tgt Ion:225 Resp: 30729
Ion Ratio Lower Upper
225 100
223 63.5 30.8 92.4
227 63.4 30.9 92.7





#95
Naphthalene
Concen: 53.781 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

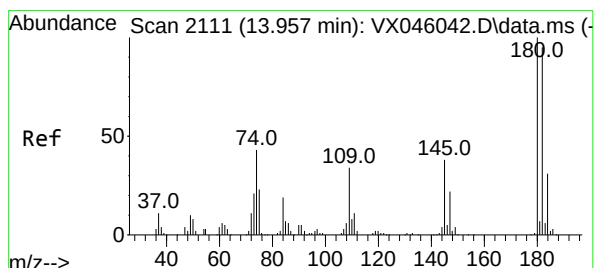
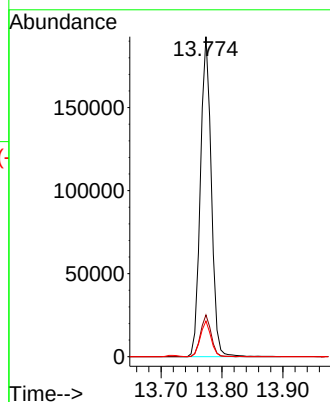
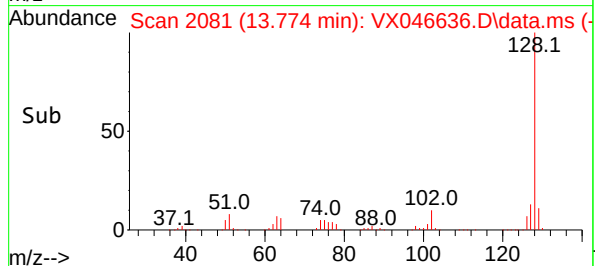
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



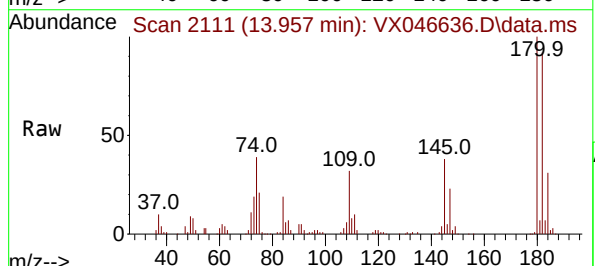
Tgt Ion:128 Resp: 239917
Ion Ratio Lower Upper
128 100
127 12.7 10.4 15.6
129 10.8 8.6 13.0

Manual Integrations
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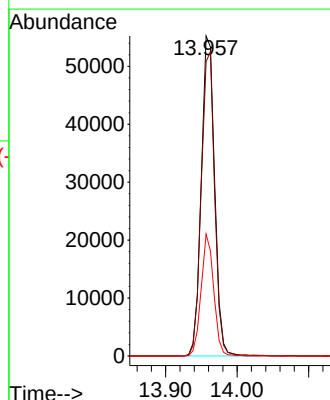
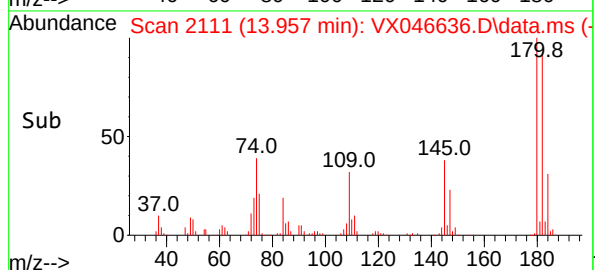
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.057 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.001 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46



Tgt Ion:180 Resp: 72019
Ion Ratio Lower Upper
180 100
182 94.6 47.8 143.3
145 35.7 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046636.D
Acq On : 11 Jun 2025 14:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jun 12 02:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	86	0.00
2 T	Dichlorodifluoromethane	0.694	0.640	7.8	85	0.00
3 P	Chloromethane	0.632	0.553	12.5	83	0.00
4 C	Vinyl Chloride	0.630	0.569	9.7#	82	0.00
5 T	Bromomethane	0.382	0.214	44.0#	46#	0.00
6 T	Chloroethane	0.409	0.331	19.1	76	0.00
7 T	Trichlorofluoromethane	1.042	0.890	14.6	75	0.00
8 T	Diethyl Ether	0.368	0.332	9.8	80	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	0.657	0.667	-1.5	90	0.00
10 T	Methyl Iodide	0.712	0.571	19.8	69	0.00
11 T	Tert butyl alcohol	0.099	0.087	12.1	77	0.00
12 CM	1,1-Dichloroethene	0.594	0.596	-0.3#	90	0.00
13 T	Acrolein	0.103	0.156	-51.5#	120	0.00
14 T	Allyl chloride	1.166	1.177	-0.9	90	0.00
15 T	Acrylonitrile	0.373	0.388	-4.0	88	-0.01
16 T	Acetone	0.381	0.335	12.1	85	0.00
17 T	Carbon Disulfide	1.481	1.215	18.0	86	0.00
18 T	Methyl Acetate	1.060	1.172	-10.6	89	0.00
19 T	Methyl tert-butyl Ether	2.077	2.240	-7.8	91	-0.01
20 T	Methylene Chloride	0.714	0.716	-0.3	93	0.00
21 T	trans-1,2-Dichloroethene	0.628	0.624	0.6	92	0.00
22 T	Diisopropyl ether	2.298	2.474	-7.7	91	-0.01
23 T	Vinyl Acetate	1.775	1.886	-6.3	89	-0.01
24 P	1,1-Dichloroethane	1.281	1.325	-3.4	90	-0.01
25 T	2-Butanone	0.495	0.486	1.8	83	-0.01
26 T	2,2-Dichloropropane	0.951	0.988	-3.9	88	0.00
27 T	cis-1,2-Dichloroethene	0.773	0.799	-3.4	93	-0.01
28 T	Bromochloromethane	0.611	0.569	6.9	83	-0.01
29 T	Tetrahydrofuran	0.313	0.301	3.8	82	0.00
30 C	Chloroform	1.342	1.434	-6.9#	94	-0.01
31 T	Cyclohexane	1.034	1.020	1.4	88	-0.01
32 T	1,1,1-Trichloroethane	1.148	1.186	-3.3	89	0.00
33 S	1,2-Dichloroethane-d4	0.890	0.830	6.7	82	-0.01
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	85	-0.01
35 S	Dibromofluoromethane	0.368	0.382	-3.8	89	-0.01
36 T	1,1-Dichloropropene	0.525	0.501	4.6	88	-0.02
37 T	Ethyl Acetate	0.513	0.546	-6.4	84	-0.02
38 T	Carbon Tetrachloride	0.588	0.579	1.5	88	-0.01
39 T	Methylcyclohexane	0.620	0.597	3.7	89	0.00
40 TM	Benzene	1.479	1.534	-3.7	92	-0.01
41 T	Methacrylonitrile	0.318	0.328	-3.1	87	-0.01
42 TM	1,2-Dichloroethane	0.615	0.621	-1.0	87	0.00
43 T	Isopropyl Acetate	0.894	0.924	-3.4	85	-0.01
44 TM	Trichloroethene	0.376	0.379	-0.8	92	0.00
45 C	1,2-Dichloropropane	0.382	0.411	-7.6#	92	-0.01
46 T	Dibromomethane	0.287	0.299	-4.2	91	0.00
47 T	Bromodichloromethane	0.590	0.647	-9.7	92	0.00
48 T	Methyl methacrylate	0.460	0.484	-5.2	86	-0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046636.D
Acq On : 11 Jun 2025 14:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jun 12 02:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	0.006	0.006	0.0	77	-0.01
50 S	Toluene-d8	1.212	1.219	-0.6	88	0.00
51 T	4-Methyl-2-Pentanone	0.568	0.600	-5.6	86	0.00
52 CM	Toluene	0.908	0.958	-5.5#	92	0.00
53 T	t-1,3-Dichloropropene	0.529	0.576	-8.9	91	0.00
54 T	cis-1,3-Dichloropropene	0.589	0.630	-7.0	91	0.00
55 T	1,1,2-Trichloroethane	0.365	0.403	-10.4	94	0.00
56 T	Ethyl methacrylate	0.561	0.629	-12.1	92	0.00
57 T	1,3-Dichloropropane	0.644	0.676	-5.0	91	0.00
58 T	2-Chloroethyl Vinyl ether	0.306	0.318	-3.9	86	0.00
59 T	2-Hexanone	0.407	0.422	-3.7	84	0.00
60 T	Dibromochloromethane	0.429	0.472	-10.0	93	0.00
61 T	1,2-Dibromoethane	0.380	0.396	-4.2	91	0.00
62 S	4-Bromofluorobenzene	0.502	0.503	-0.2	87	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00
64 T	Tetrachloroethene	0.334	0.330	1.2	93	0.00
65 PM	Chlorobenzene	1.176	1.223	-4.0	95	0.00
66 T	1,1,1,2-Tetrachloroethane	0.397	0.439	-10.6	95	0.00
67 C	Ethyl Benzene	2.053	2.124	-3.5#	92	0.00
68 T	m/p-Xylenes	0.745	0.792	-6.3	94	0.00
69 T	o-Xylene	0.720	0.786	-9.2	96	0.00
70 T	Styrene	1.233	1.358	-10.1	94	0.00
71 P	Bromoform	0.303	0.332	-9.6	93	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
73 T	Isopropylbenzene	3.930	4.163	-5.9	93	0.00
74 T	N-amyl acetate	1.731	1.836	-6.1	89	0.00
75 P	1,1,2,2-Tetrachloroethane	1.258	1.318	-4.8	92	0.00
76 T	1,2,3-Trichloropropane	1.059	1.091	-3.0	91	0.00
77 T	Bromobenzene	0.912	0.960	-5.3	95	0.00
78 T	n-propylbenzene	4.757	4.937	-3.8	92	0.00
79 T	2-Chlorotoluene	2.869	2.954	-3.0	93	0.00
80 T	1,3,5-Trimethylbenzene	3.275	3.443	-5.1	93	0.00
81 T	trans-1,4-Dichloro-2-butene	0.367	0.381	-3.8	90	0.00
82 T	4-Chlorotoluene	3.400	3.462	-1.8	92	0.00
83 T	tert-Butylbenzene	3.334	3.554	-6.6	95	0.00
84 T	1,2,4-Trimethylbenzene	3.313	3.476	-4.9	94	0.00
85 T	sec-Butylbenzene	4.284	4.505	-5.2	95	0.00
86 T	p-Isopropyltoluene	3.572	3.722	-4.2	94	0.00
87 T	1,3-Dichlorobenzene	1.772	1.850	-4.4	96	0.00
88 T	1,4-Dichlorobenzene	1.836	1.886	-2.7	99	0.00
89 T	n-Butylbenzene	3.507	3.559	-1.5	93	0.00
90 T	Hexachloroethane	0.635	0.645	-1.6	93	0.00
91 T	1,2-Dichlorobenzene	1.710	1.792	-4.8	96	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.282	0.281	0.4	86	0.00
93 T	1,2,4-Trichlorobenzene	1.167	1.224	-4.9	100	0.00
94 T	Hexachlorobutadiene	0.542	0.510	5.9	89	0.00
95 T	Naphthalene	3.699	3.979	-7.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046636.D
Acq On : 11 Jun 2025 14:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jun 12 02:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	1.170	1.194	-2.1	96	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046636.D
Acq On : 11 Jun 2025 14:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jun 12 02:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	86	0.00
2 T	Dichlorodifluoromethane	50.000	46.135	7.7	85	0.00
3 P	Chloromethane	50.000	43.769	12.5	83	0.00
4 C	Vinyl Chloride	50.000	45.171	9.7#	82	0.00
5 T	Bromomethane	50.000	27.971	44.1#	46	0.00
6 T	Chloroethane	50.000	40.448	19.1	76	0.00
7 T	Trichlorofluoromethane	50.000	42.711	14.6	75	0.00
8 T	Diethyl Ether	50.000	45.060	9.9	80	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	50.000	50.803	-1.6	90	0.00
10 T	Methyl Iodide	50.000	40.090	19.8	69	0.00
11 T	Tert butyl alcohol	250.000	220.908	11.6	77	0.00
12 CM	1,1-Dichloroethene	50.000	50.196	-0.4#	90	0.00
13 T	Acrolein	250.000	318.023	-27.2#	120	0.00
14 T	Allyl chloride	50.000	50.488	-1.0	90	0.00
15 T	Acrylonitrile	250.000	260.120	-4.0	88	-0.01
16 T	Acetone	250.000	239.623	4.2	85	0.00
17 T	Carbon Disulfide	50.000	48.207	3.6	86	0.00
18 T	Methyl Acetate	50.000	55.283	-10.6	89	0.00
19 T	Methyl tert-butyl Ether	50.000	53.911	-7.8	91	-0.01
20 T	Methylene Chloride	50.000	50.139	-0.3	93	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.675	0.7	92	0.00
22 T	Diisopropyl ether	50.000	53.823	-7.6	91	-0.01
23 T	Vinyl Acetate	250.000	265.747	-6.3	89	-0.01
24 P	1,1-Dichloroethane	50.000	51.716	-3.4	90	-0.01
25 T	2-Butanone	250.000	245.374	1.9	83	-0.01
26 T	2,2-Dichloropropane	50.000	51.935	-3.9	88	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.635	-3.3	93	-0.01
28 T	Bromochloromethane	50.000	46.537	6.9	83	-0.01
29 T	Tetrahydrofuran	250.000	240.984	3.6	82	0.00
30 C	Chloroform	50.000	53.424	-6.8#	94	-0.01
31 T	Cyclohexane	50.000	49.332	1.3	88	-0.01
32 T	1,1,1-Trichloroethane	50.000	51.668	-3.3	89	0.00
33 S	1,2-Dichloroethane-d4	50.000	46.653	6.7	82	-0.01
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	85	-0.01
35 S	Dibromofluoromethane	50.000	51.915	-3.8	89	-0.01
36 T	1,1-Dichloropropene	50.000	47.660	4.7	88	-0.02
37 T	Ethyl Acetate	50.000	53.299	-6.6	84	-0.02
38 T	Carbon Tetrachloride	50.000	49.184	1.6	88	-0.01
39 T	Methylcyclohexane	50.000	48.113	3.8	89	0.00
40 TM	Benzene	50.000	51.876	-3.8	92	-0.01
41 T	Methacrylonitrile	50.000	51.538	-3.1	87	-0.01
42 TM	1,2-Dichloroethane	50.000	50.505	-1.0	87	0.00
43 T	Isopropyl Acetate	50.000	51.690	-3.4	85	-0.01
44 TM	Trichloroethene	50.000	50.496	-1.0	92	0.00
45 C	1,2-Dichloropropane	50.000	53.877	-7.8#	92	-0.01
46 T	Dibromomethane	50.000	52.002	-4.0	91	0.00
47 T	Bromodichloromethane	50.000	54.764	-9.5	92	0.00
48 T	Methyl methacrylate	50.000	52.623	-5.2	86	-0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046636.D
Acq On : 11 Jun 2025 14:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jun 12 02:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	936.440	6.4	77	-0.01
50 S	Toluene-d8	50.000	50.297	-0.6	88	0.00
51 T	4-Methyl-2-Pentanone	250.000	263.985	-5.6	86	0.00
52 CM	Toluene	50.000	52.732	-5.5#	92	0.00
53 T	t-1,3-Dichloropropene	50.000	54.455	-8.9	91	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.504	-7.0	91	0.00
55 T	1,1,2-Trichloroethane	50.000	55.318	-10.6	94	0.00
56 T	Ethyl methacrylate	50.000	56.009	-12.0	92	0.00
57 T	1,3-Dichloropropane	50.000	52.422	-4.8	91	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	260.437	-4.2	86	0.00
59 T	2-Hexanone	250.000	259.182	-3.7	84	0.00
60 T	Dibromochloromethane	50.000	55.050	-10.1	93	0.00
61 T	1,2-Dibromoethane	50.000	52.090	-4.2	91	0.00
62 S	4-Bromofluorobenzene	50.000	50.160	-0.3	87	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	87	0.00
64 T	Tetrachloroethene	50.000	49.417	1.2	93	0.00
65 PM	Chlorobenzene	50.000	51.980	-4.0	95	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	55.199	-10.4	95	0.00
67 C	Ethyl Benzene	50.000	51.724	-3.4#	92	0.00
68 T	m/p-Xylenes	100.000	106.345	-6.3	94	0.00
69 T	o-Xylene	50.000	54.541	-9.1	96	0.00
70 T	Styrene	50.000	55.064	-10.1	94	0.00
71 P	Bromoform	50.000	54.781	-9.6	93	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	88	0.00
73 T	Isopropylbenzene	50.000	52.958	-5.9	93	0.00
74 T	N-ethyl acetate	50.000	53.026	-6.1	89	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	52.379	-4.8	92	0.00
76 T	1,2,3-Trichloropropane	50.000	51.509	-3.0	91	0.00
77 T	Bromobenzene	50.000	52.592	-5.2	95	0.00
78 T	n-propylbenzene	50.000	51.885	-3.8	92	0.00
79 T	2-Chlorotoluene	50.000	51.487	-3.0	93	0.00
80 T	1,3,5-Trimethylbenzene	50.000	52.565	-5.1	93	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	51.862	-3.7	90	0.00
82 T	4-Chlorotoluene	50.000	50.910	-1.8	92	0.00
83 T	tert-Butylbenzene	50.000	53.295	-6.6	95	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.454	-4.9	94	0.00
85 T	sec-Butylbenzene	50.000	52.573	-5.1	95	0.00
86 T	p-Isopropyltoluene	50.000	52.107	-4.2	94	0.00
87 T	1,3-Dichlorobenzene	50.000	52.221	-4.4	96	0.00
88 T	1,4-Dichlorobenzene	50.000	51.383	-2.8	99	0.00
89 T	n-Butylbenzene	50.000	50.742	-1.5	93	0.00
90 T	Hexachloroethane	50.000	50.802	-1.6	93	0.00
91 T	1,2-Dichlorobenzene	50.000	52.399	-4.8	96	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.901	0.2	86	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.453	-4.9	100	0.00
94 T	Hexachlorobutadiene	50.000	47.005	6.0	89	0.00
95 T	Naphthalene	50.000	53.781	-7.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046636.D
Acq On : 11 Jun 2025 14:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jun 12 02:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T 1,2,3-Trichlorobenzene	50.000	51.057	-2.1	96	0.00

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



QC SAMPLE DATA

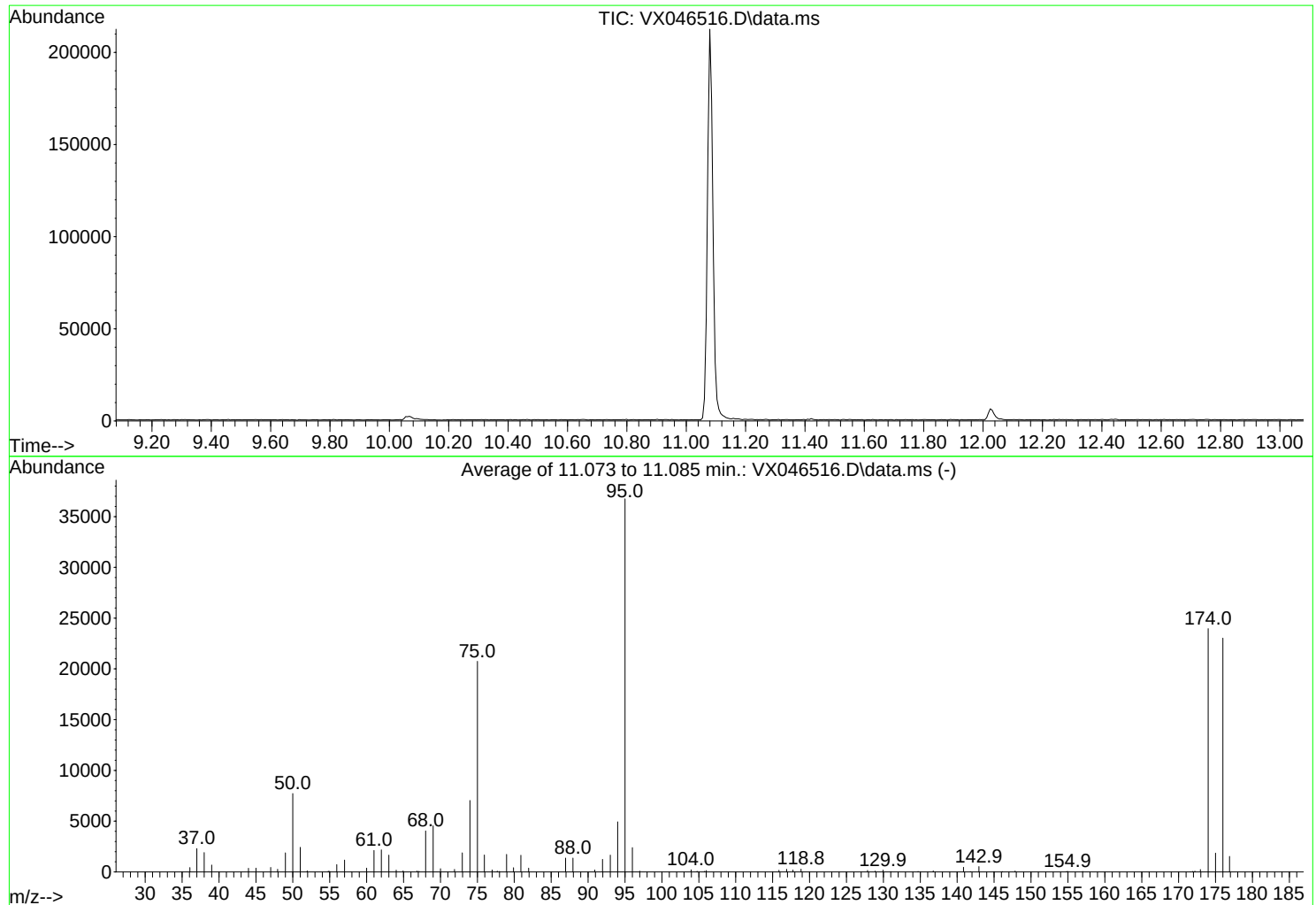
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046516.D
Acq On : 06 Jun 2025 08:47
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\82X060625W.M
Title : SW846 8260
Last Update : Fri Jun 06 16:56:12 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

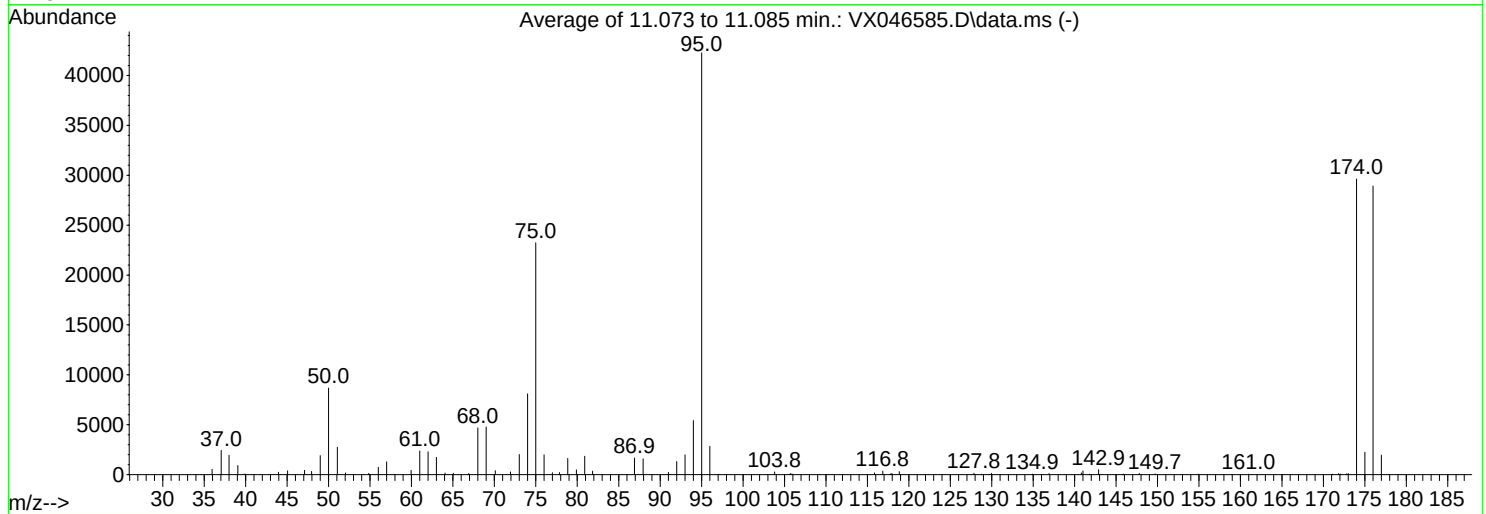
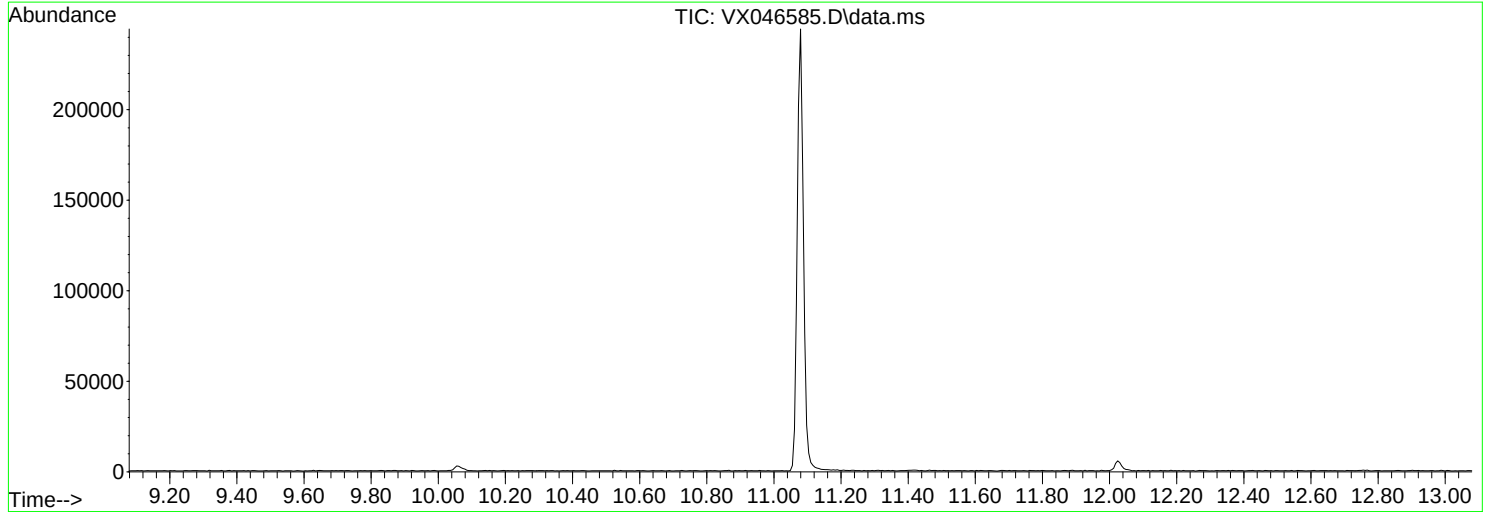
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	21.0	7727	PASS
75	95	30	60	56.5	20747	PASS
95	95	100	100	100.0	36752	PASS
96	95	5	9	6.5	2397	PASS
173	174	0.00	2	1.0	238	PASS
174	95	50	100	65.2	23963	PASS
175	174	5	9	7.7	1850	PASS
176	174	95	101	96.1	23028	PASS
177	176	5	9	6.6	1530	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046585.D
Acq On : 10 Jun 2025 08:36
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\82X060625W.M
Title : SW846 8260
Last Update : Fri Jun 06 16:56:12 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

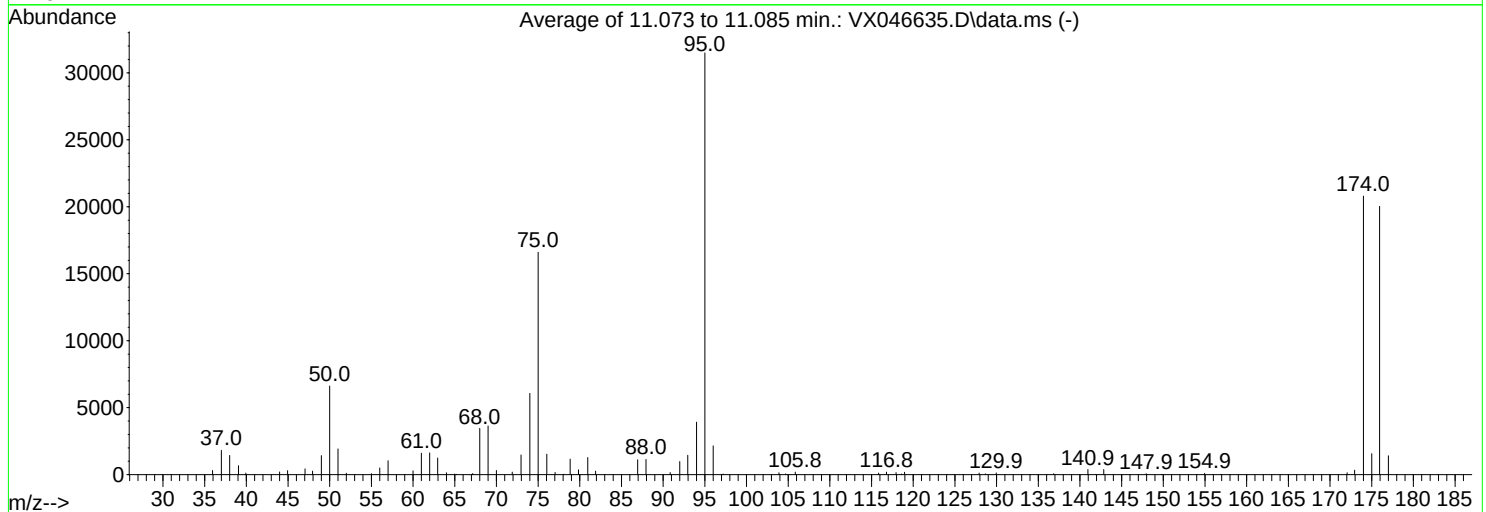
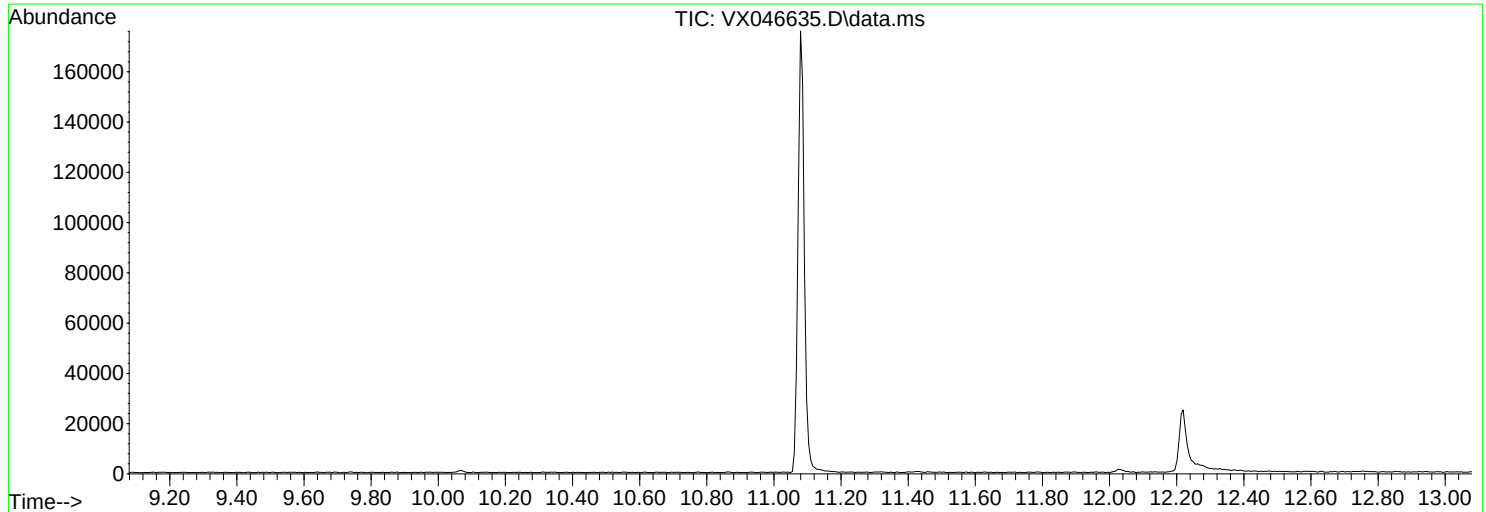
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	20.5	8668	PASS
75	95	30	60	55.0	23232	PASS
95	95	100	100	100.0	42264	PASS
96	95	5	9	6.7	2835	PASS
173	174	0.00	2	0.4	107	PASS
174	95	50	100	70.1	29635	PASS
175	174	5	9	7.6	2246	PASS
176	174	95	101	97.6	28920	PASS
177	176	5	9	6.8	1965	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046635.D
Acq On : 11 Jun 2025 14:01
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Title : SW846 8260
Last Update : Fri Jun 06 16:56:12 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	21.0	6619	PASS
75	95	30	60	52.7	16610	PASS
95	95	100	100	100.0	31491	PASS
96	95	5	9	6.8	2149	PASS
173	174	0.00	2	1.6	335	PASS
174	95	50	100	66.1	20804	PASS
175	174	5	9	7.5	1565	PASS
176	174	95	101	96.3	20030	PASS
177	176	5	9	7.0	1411	PASS

Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	Con Ed UTEN Mount Vernon, NY		Date Received:	
Client Sample ID:	VX0610WBL01		SDG No.:	Q2230
Lab Sample ID:	VX0610WBL01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group3
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046588.D	1		06/10/25 09:57	VX061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	1.00	U	0.15	1.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
1330-20-7	Total Xylenes	3.00	U	0.36	3.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.12	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.13	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.15	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.14	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.13	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.13	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.15	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.1		74 - 125	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	54.3		86 - 113	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.8		77 - 121	110%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	106000	5.562			
540-36-3	1,4-Difluorobenzene	212000	6.769			
3114-55-4	Chlorobenzene-d5	217000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	104000	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046588.D
Acq On : 10 Jun 2025 09:57
Operator : JC/MD
Sample : VX0610WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0610WBL01

Quant Time: Jun 11 01:42:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	106110	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	211553	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	217338	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	104374	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	94499	50.058	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	100.120%
35) Dibromofluoromethane	5.397	113	77970	50.117	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.240%
50) Toluene-d8	8.647	98	278481	54.294	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	108.580%
62) 4-Bromofluorobenzene	11.079	95	116202	54.757	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	109.520%

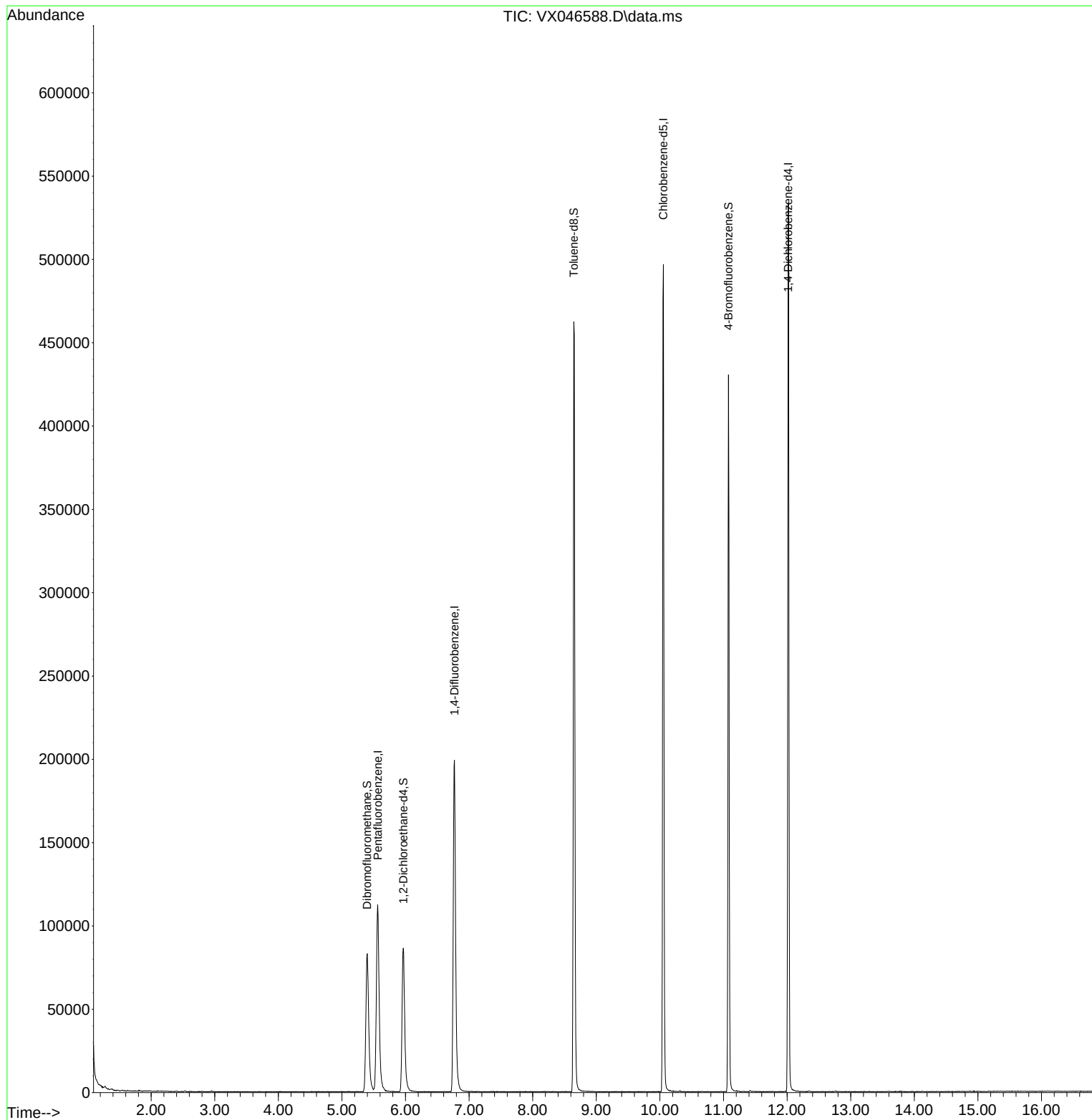
Target Compounds	Qvalue
------------------	--------

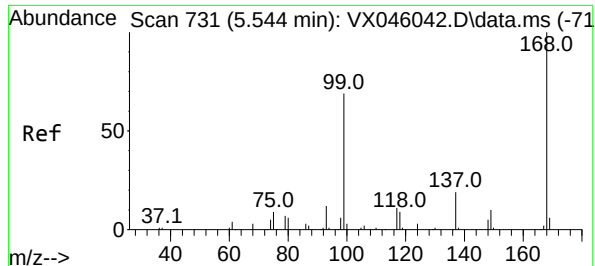
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046588.D
Acq On : 10 Jun 2025 09:57
Operator : JC/MD
Sample : VX0610WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0610WBL01

Quant Time: Jun 11 01:42:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.562 min Scan# 71

Delta R.T. -0.006 min

Lab File: VX046588.D

Acq: 10 Jun 2025 09:57

Instrument :

MSVOA_X

ClientSampleId :

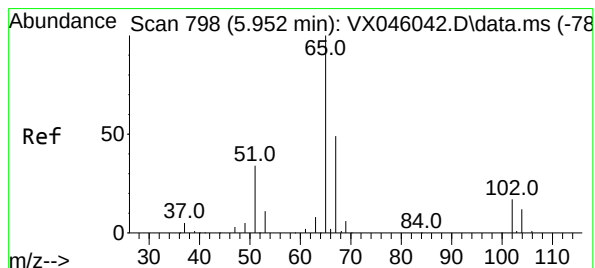
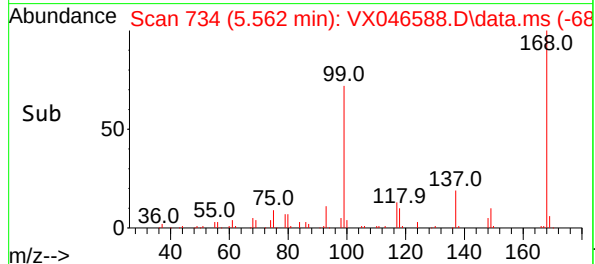
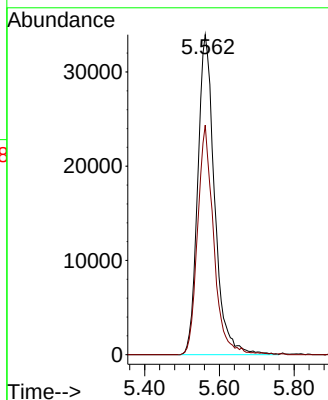
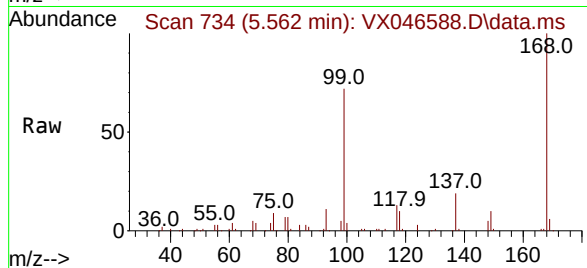
VX0610WBL01

Tgt Ion:168 Resp: 106110

Ion Ratio Lower Upper

168 100

99 71.7 54.9 82.3



#33

1,2-Dichloroethane-d4

Concen: 50.058 ug/l

RT: 5.964 min Scan# 800

Delta R.T. -0.006 min

Lab File: VX046588.D

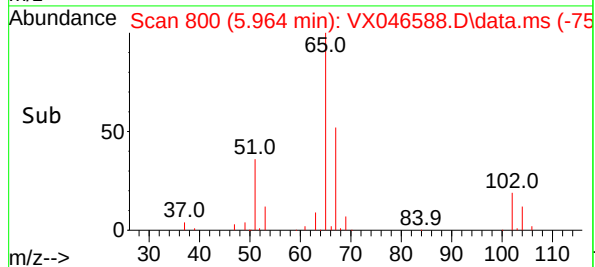
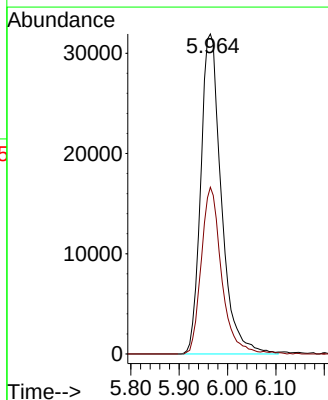
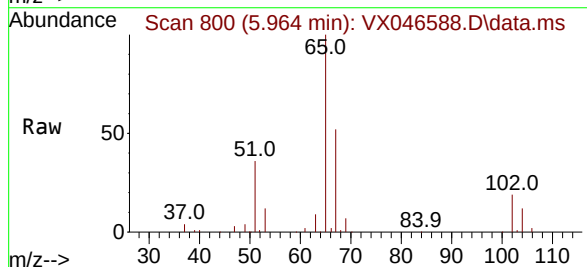
Acq: 10 Jun 2025 09:57

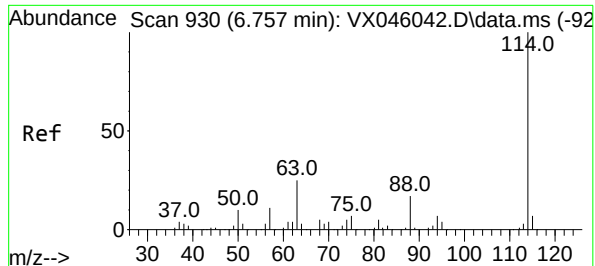
Tgt Ion: 65 Resp: 94499

Ion Ratio Lower Upper

65 100

67 51.0 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX046588.D

Acq: 10 Jun 2025 09:57

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBL01

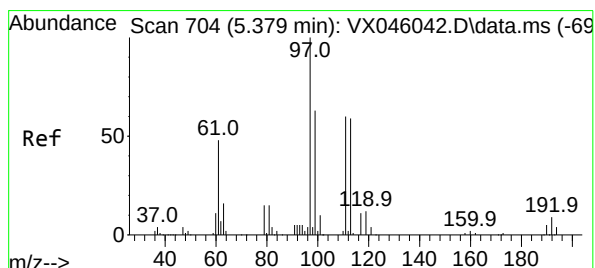
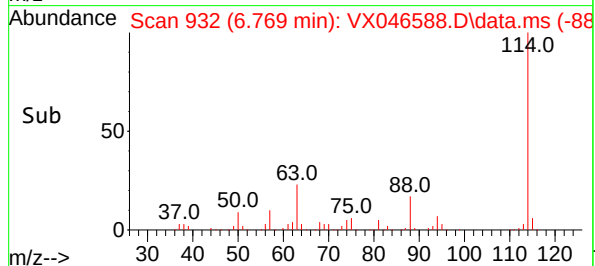
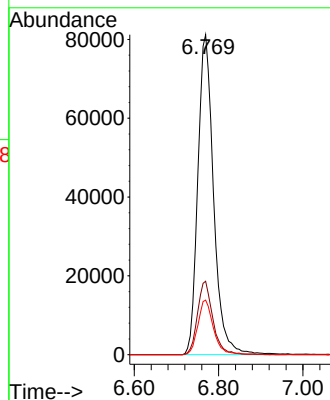
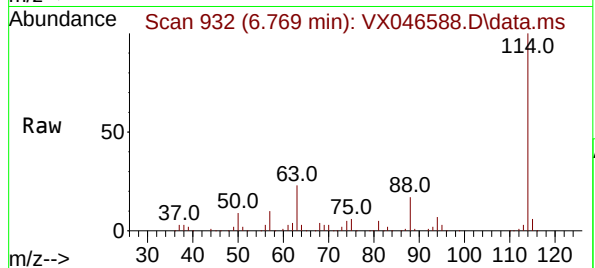
Tgt Ion:114 Resp: 211553

Ion Ratio Lower Upper

114 100

63 23.0 0.0 49.2

88 17.1 0.0 33.6



#35

Dibromofluoromethane

Concen: 50.117 ug/l

RT: 5.397 min Scan# 707

Delta R.T. -0.006 min

Lab File: VX046588.D

Acq: 10 Jun 2025 09:57

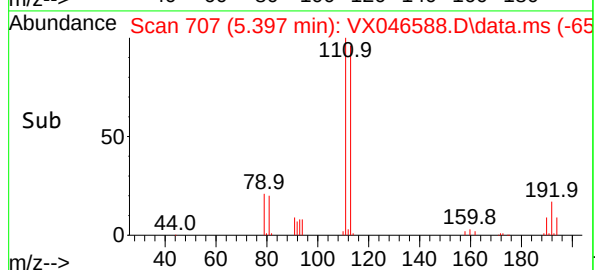
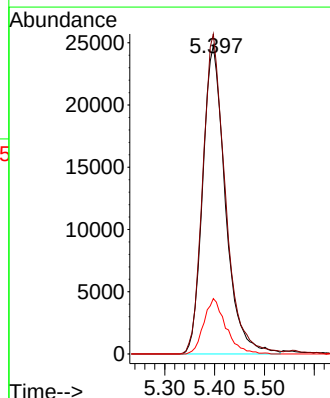
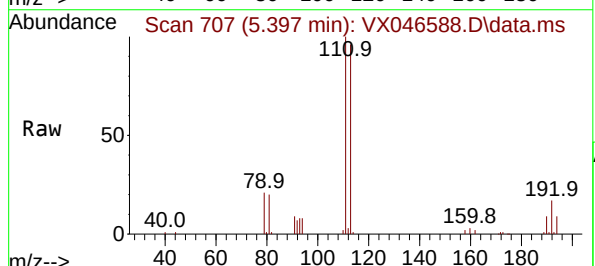
Tgt Ion:113 Resp: 77970

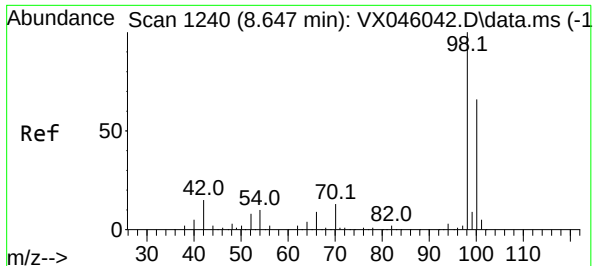
Ion Ratio Lower Upper

113 100

111 103.7 83.1 124.7

192 17.6 13.3 19.9





#50

Toluene-d8

Concen: 54.294 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX046588.D

Acq: 10 Jun 2025 09:57

Instrument :

MSVOA_X

ClientSampleId :

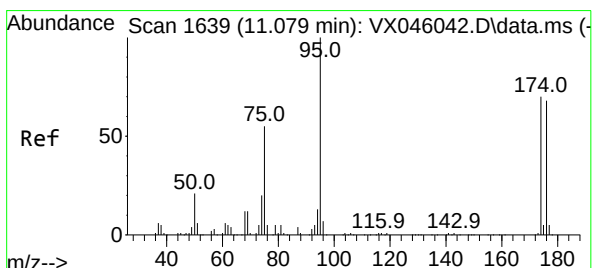
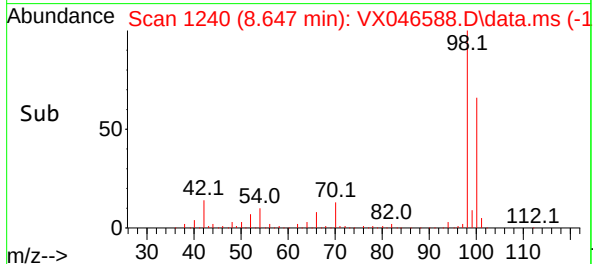
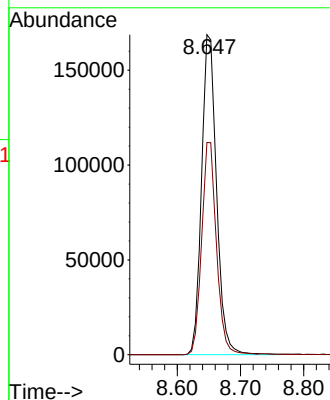
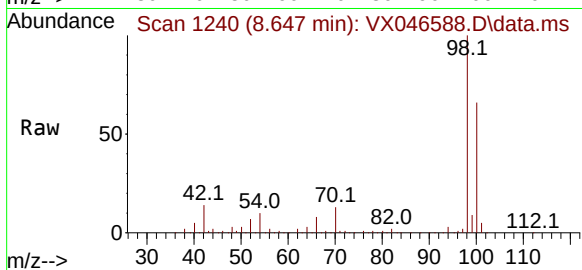
VX0610WBL01

Tgt Ion: 98 Resp: 278481

Ion Ratio Lower Upper

98 100

100 65.6 53.5 80.3



#62

4-Bromofluorobenzene

Concen: 54.757 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046588.D

Acq: 10 Jun 2025 09:57

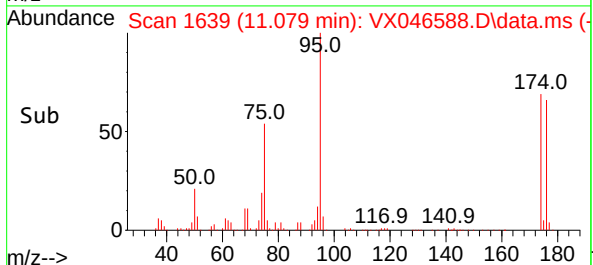
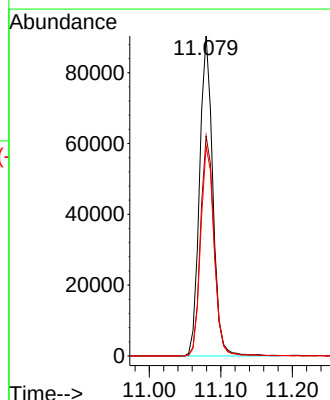
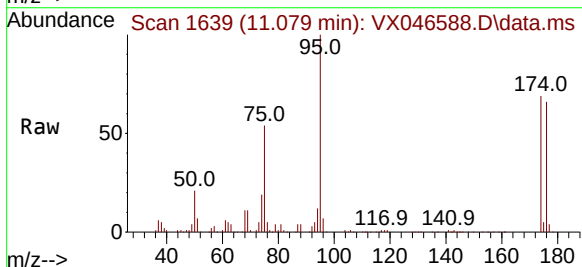
Tgt Ion: 95 Resp: 116202

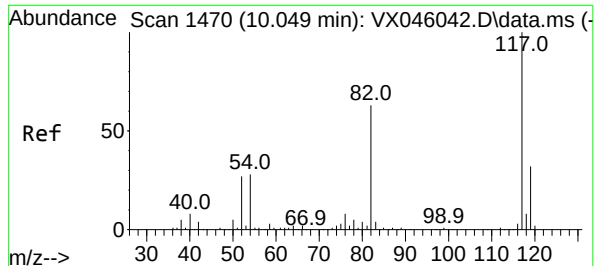
Ion Ratio Lower Upper

95 100

174 70.0 0.0 135.8

176 66.7 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX046588.D

Acq: 10 Jun 2025 09:57

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBL01

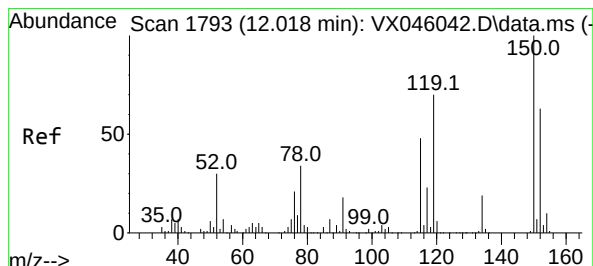
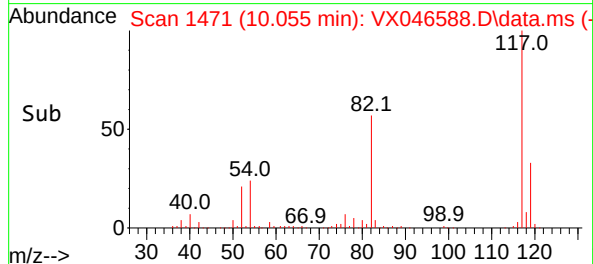
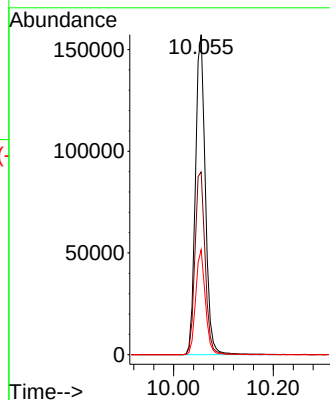
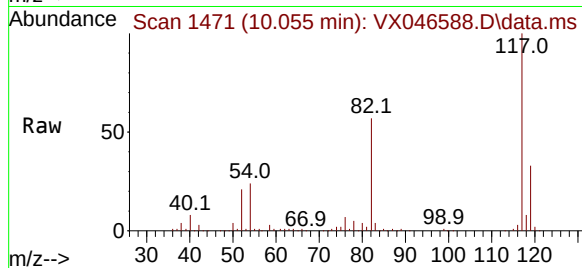
Tgt Ion:117 Resp: 217338

Ion Ratio Lower Upper

117 100

82 57.1 50.6 76.0

119 32.8 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.006 min

Lab File: VX046588.D

Acq: 10 Jun 2025 09:57

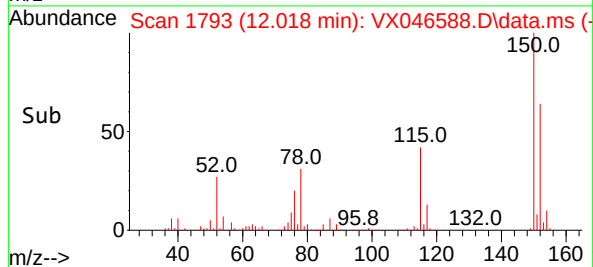
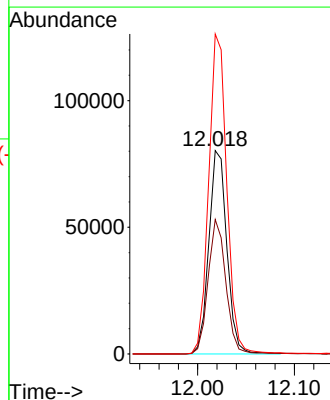
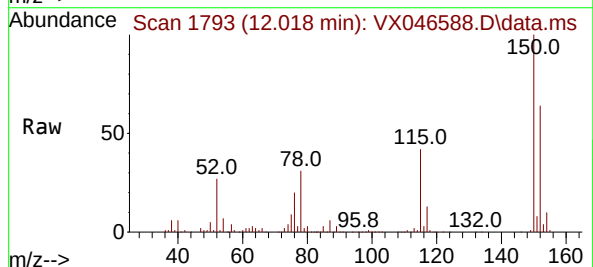
Tgt Ion:152 Resp: 104374

Ion Ratio Lower Upper

152 100

115 65.3 46.9 140.7

150 157.8 0.0 351.0



Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	Con Ed UTEN Mount Vernon, NY	Date Received:	
Client Sample ID:	VX0611WBL02	SDG No.:	Q2230
Lab Sample ID:	VX0611WBL02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046637.D	1		06/11/25 15:14	VX061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	1.00	U	0.15	1.00	ug/L
108-88-3	Toluene	1.00	U	0.14	1.00	ug/L
100-41-4	Ethyl Benzene	1.00	U	0.13	1.00	ug/L
1330-20-7	Total Xylenes	3.00	U	0.36	3.00	ug/L
98-82-8	Isopropylbenzene	1.00	U	0.12	1.00	ug/L
103-65-1	n-propylbenzene	1.00	U	0.13	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	1.00	U	0.15	1.00	ug/L
98-06-6	tert-Butylbenzene	1.00	U	0.14	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	1.00	U	0.14	1.00	ug/L
135-98-8	sec-Butylbenzene	1.00	U	0.13	1.00	ug/L
99-87-6	p-Isopropyltoluene	1.00	U	0.13	1.00	ug/L
104-51-8	n-Butylbenzene	1.00	U	0.15	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.7		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	54.3		86 - 113	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.3		77 - 121	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	73500	5.556			
540-36-3	1,4-Difluorobenzene	148000	6.769			
3114-55-4	Chlorobenzene-d5	153000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	77000	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\VX061125\
Data File : VX046637.D
Acq On : 11 Jun 2025 15:14
Operator : JC/MD
Sample : VX0611WBL02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBL02

Quant Time: Jun 12 02:29:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.556	168	73470	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.769	114	147517	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	153084	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	77047	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	64944	49.685	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.380%
35) Dibromofluoromethane	5.391	113	54640	50.367	ug/l	-0.01
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.740%
50) Toluene-d8	8.647	98	194299	54.326	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	108.660%
62) 4-Bromofluorobenzene	11.079	95	81807	55.283	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	110.560%

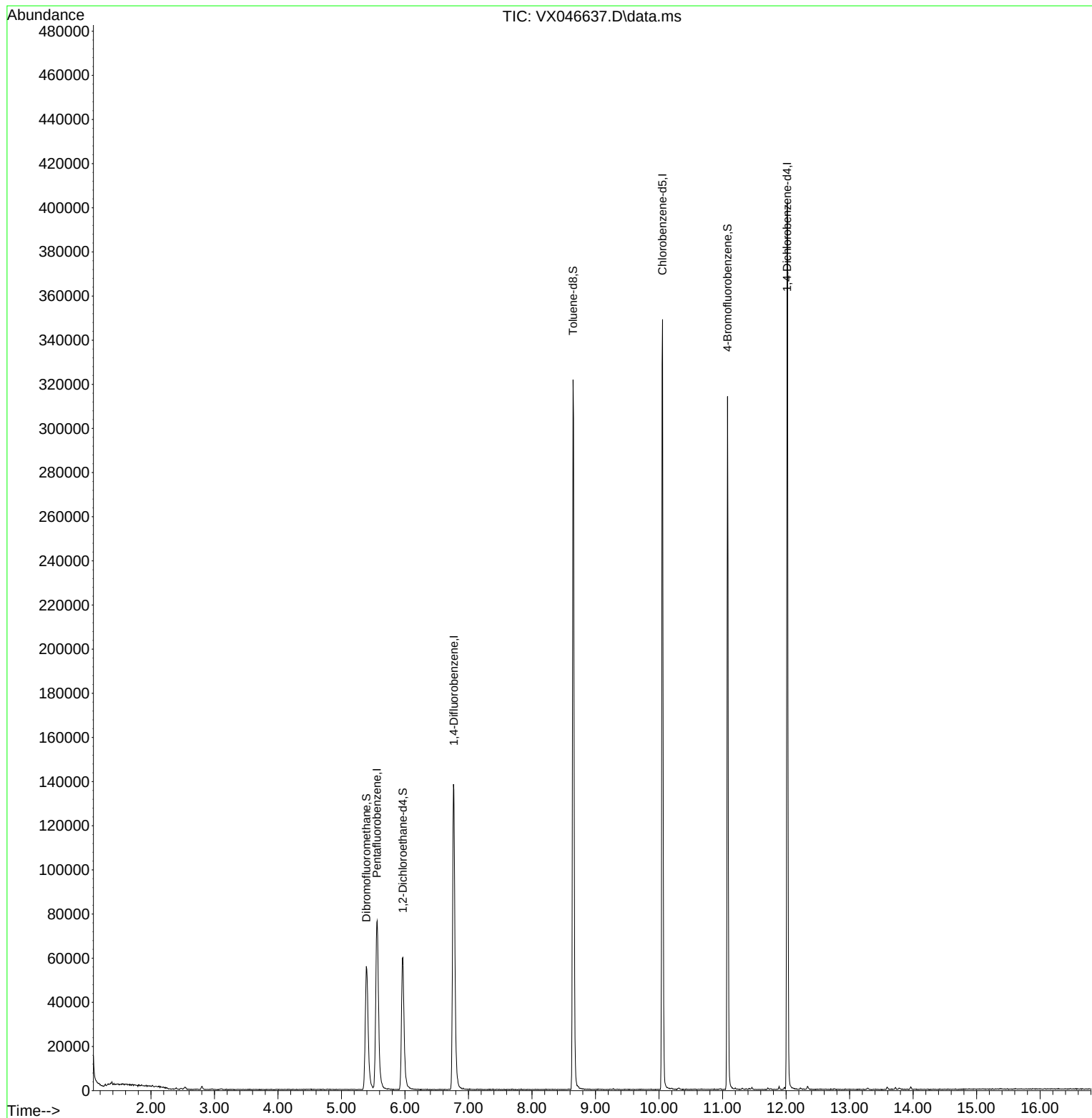
Target Compounds	Qvalue
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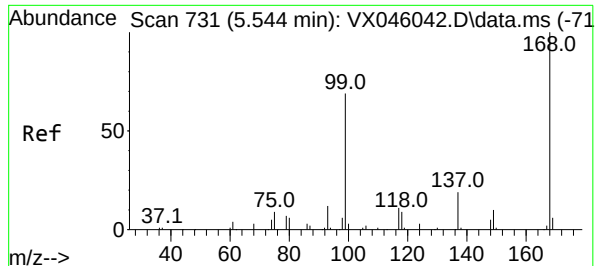
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046637.D
Acq On : 11 Jun 2025 15:14
Operator : JC/MD
Sample : VX0611WBL02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBL02

Quant Time: Jun 12 02:29:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

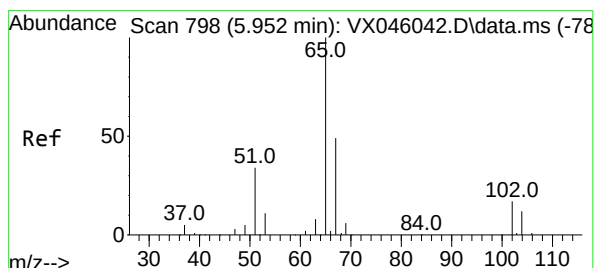
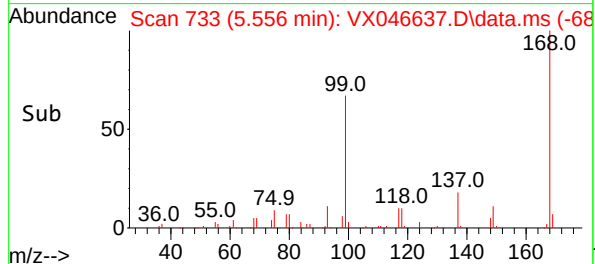
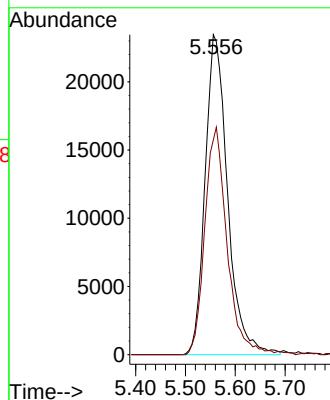
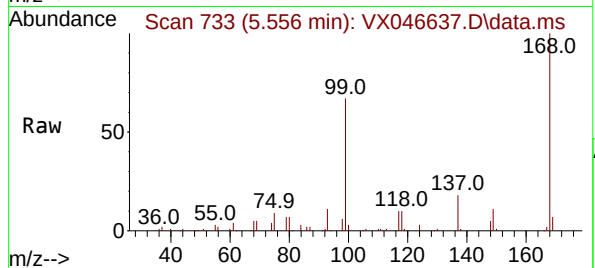




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX046637.D
Acq: 11 Jun 2025 15:14

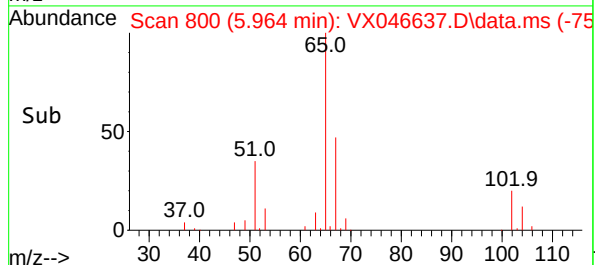
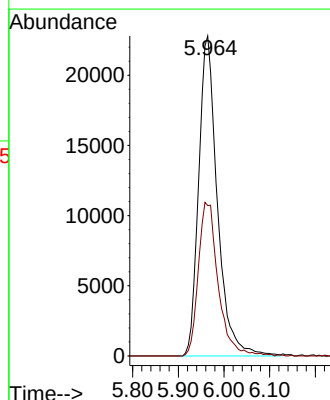
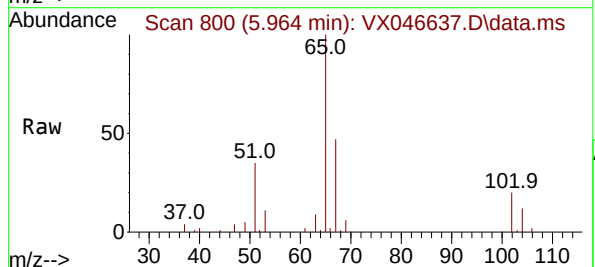
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBL02

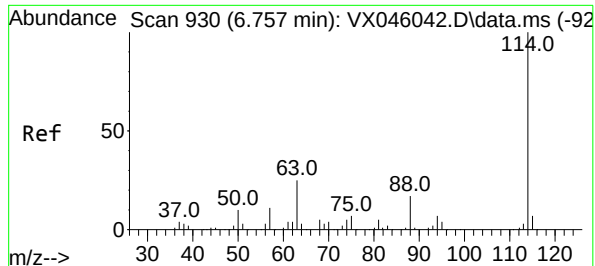
Tgt Ion:168 Resp: 73470
Ion Ratio Lower Upper
168 100
99 67.1 54.9 82.3



#33
1,2-Dichloroethane-d4
Concen: 49.685 ug/l
RT: 5.964 min Scan# 800
Delta R.T. -0.006 min
Lab File: VX046637.D
Acq: 11 Jun 2025 15:14

Tgt Ion: 65 Resp: 64944
Ion Ratio Lower Upper
65 100
67 50.9 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX046637.D

Acq: 11 Jun 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBL02

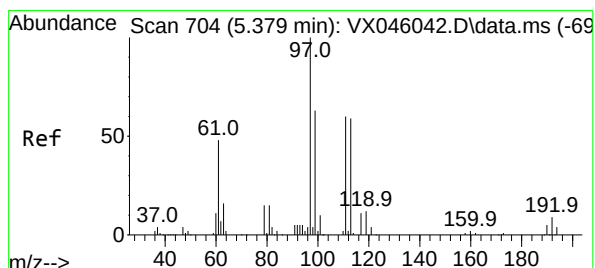
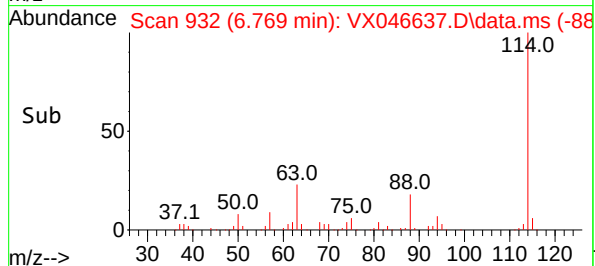
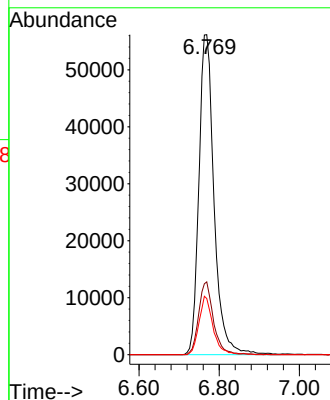
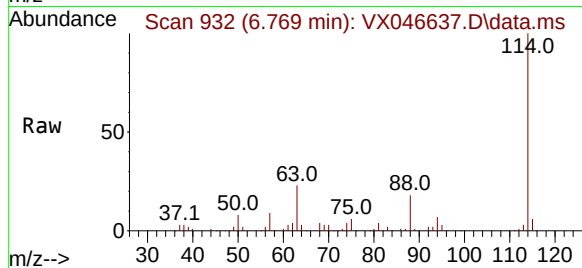
Tgt Ion:114 Resp: 147517

Ion Ratio Lower Upper

114 100

63 22.7 0.0 49.2

88 17.6 0.0 33.6



#35

Dibromofluoromethane

Concen: 50.367 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.012 min

Lab File: VX046637.D

Acq: 11 Jun 2025 15:14

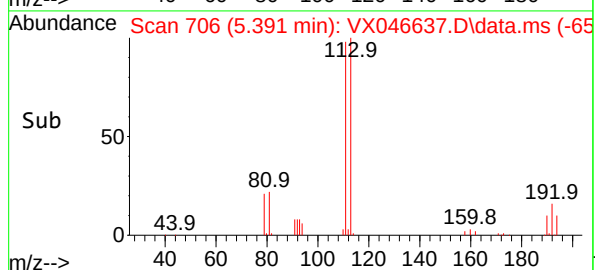
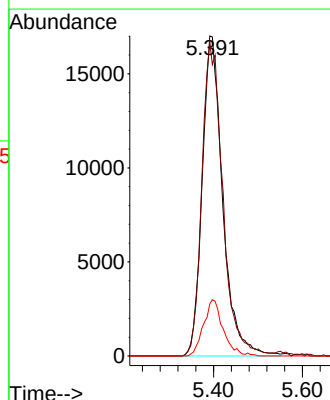
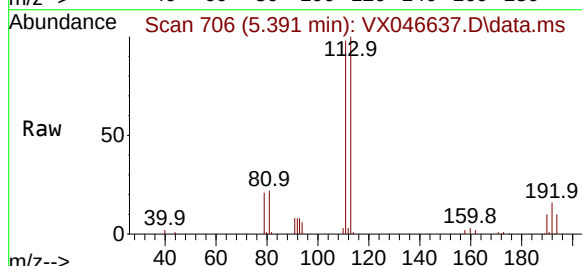
Tgt Ion:113 Resp: 54640

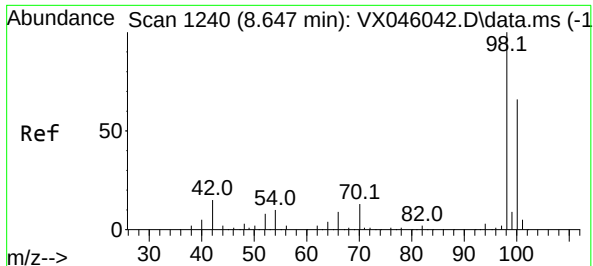
Ion Ratio Lower Upper

113 100

111 99.7 83.1 124.7

192 16.5 13.3 19.9





#50

Toluene-d8

Concen: 54.326 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX046637.D

Acq: 11 Jun 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

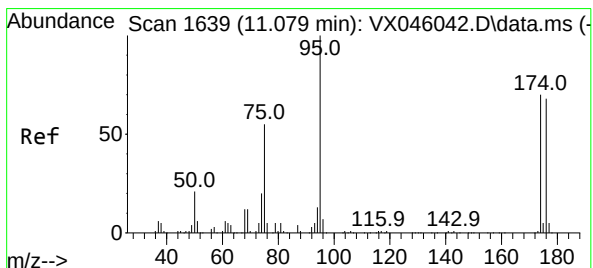
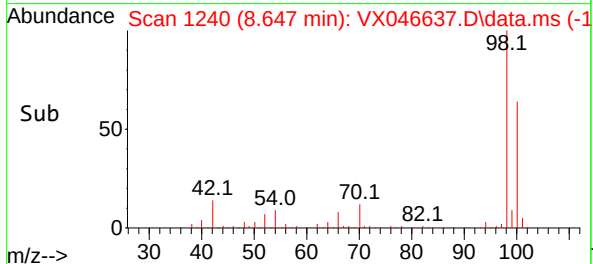
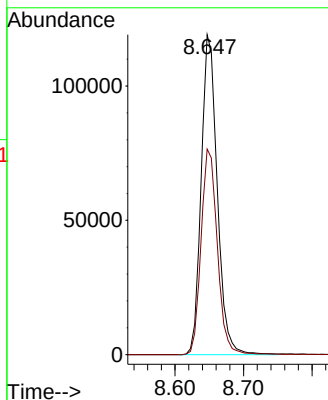
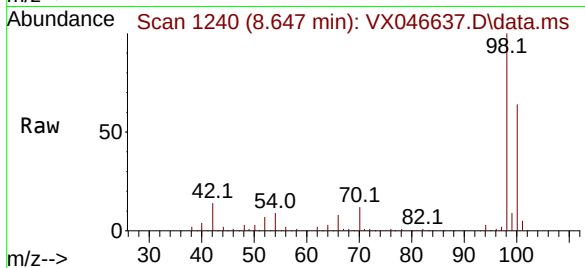
VX0611WBL02

Tgt Ion: 98 Resp: 194299

Ion Ratio Lower Upper

98 100

100 65.3 53.5 80.3



#62

4-Bromofluorobenzene

Concen: 55.283 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046637.D

Acq: 11 Jun 2025 15:14

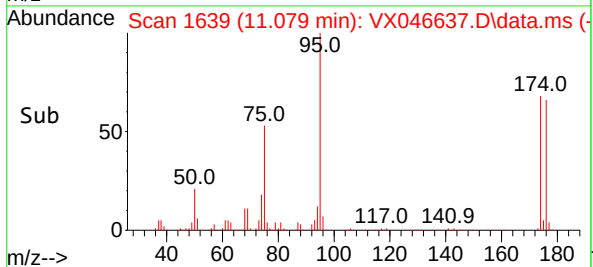
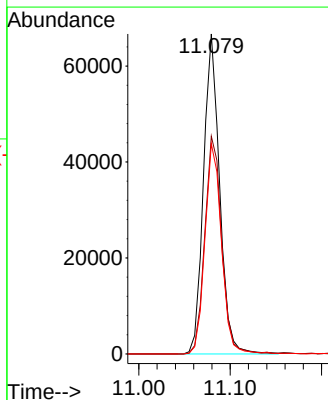
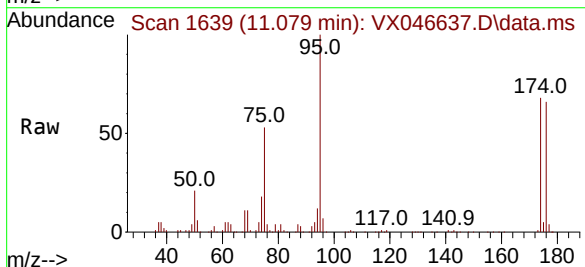
Tgt Ion: 95 Resp: 81807

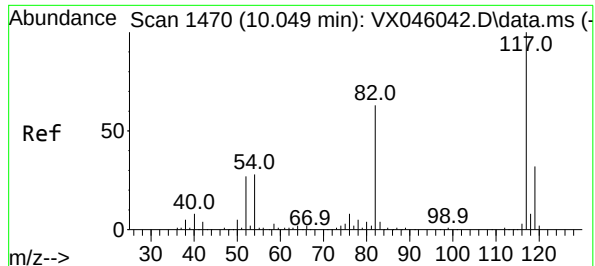
Ion Ratio Lower Upper

95 100

174 71.3 0.0 135.8

176 67.5 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX046637.D

Acq: 11 Jun 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBL02

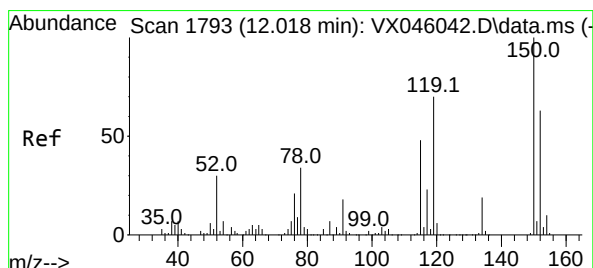
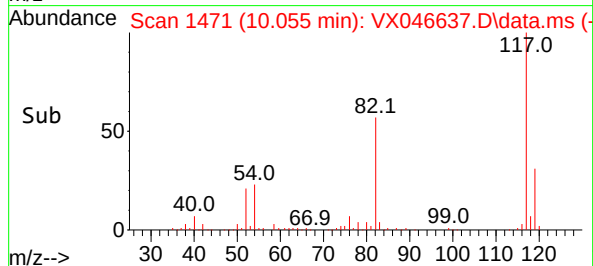
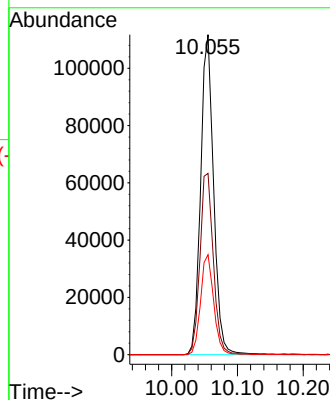
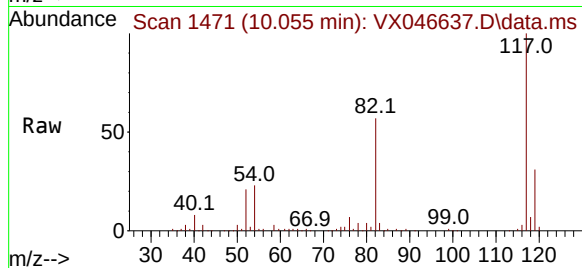
Tgt Ion:117 Resp: 153084

Ion Ratio Lower Upper

117 100

82 56.7 50.6 76.0

119 31.2 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.006 min

Lab File: VX046637.D

Acq: 11 Jun 2025 15:14

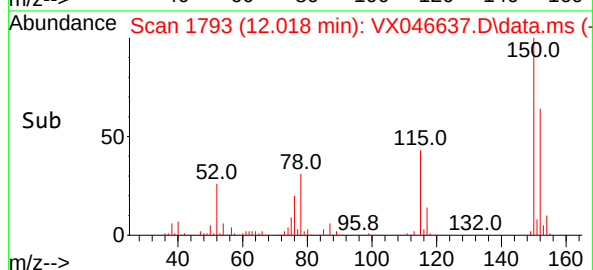
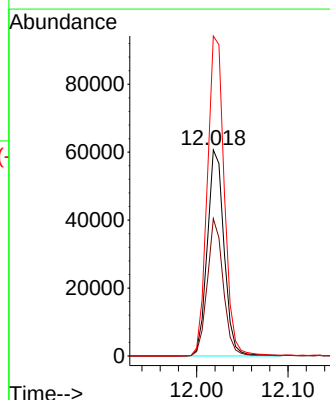
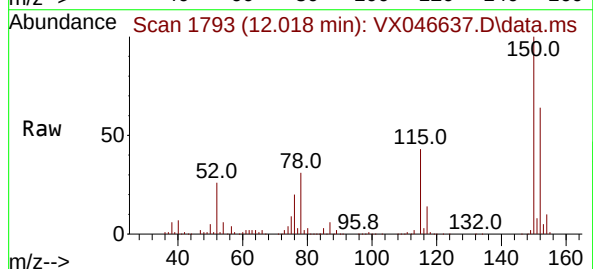
Tgt Ion:152 Resp: 77047

Ion Ratio Lower Upper

152 100

115 63.7 46.9 140.7

150 157.8 0.0 351.0



Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	Con Ed UTEN Mount Vernon, NY	Date Received:	
Client Sample ID:	VX0610WBS01	SDG No.:	Q2230
Lab Sample ID:	VX0610WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046589.D	1		06/10/25 10:18	VX061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	21.0		0.15	1.00	ug/L
108-88-3	Toluene	21.2		0.14	1.00	ug/L
100-41-4	Ethyl Benzene	20.3		0.13	1.00	ug/L
1330-20-7	Total Xylenes	62.7		0.36	3.00	ug/L
98-82-8	Isopropylbenzene	20.2		0.12	1.00	ug/L
103-65-1	n-propylbenzene	20.0		0.13	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	20.5		0.15	1.00	ug/L
98-06-6	tert-Butylbenzene	20.4		0.14	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	20.8		0.14	1.00	ug/L
135-98-8	sec-Butylbenzene	20.5		0.13	1.00	ug/L
99-87-6	p-Isopropyltoluene	20.2		0.13	1.00	ug/L
104-51-8	n-Butylbenzene	19.9		0.15	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.4		74 - 125	95%	SPK: 50
1868-53-7	Dibromofluoromethane	53.0		75 - 124	106%	SPK: 50
2037-26-5	Toluene-d8	51.5		86 - 113	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.1		77 - 121	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	84100	5.562			
540-36-3	1,4-Difluorobenzene	144000	6.769			
3114-55-4	Chlorobenzene-d5	131000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	68200	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\VX061025\
 Data File : VX046589.D
 Acq On : 10 Jun 2025 10:18
 Operator : JC/MD
 Sample : VX0610WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0610WBS01

Quant Time: Jun 11 01:42:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 06/11/2025
 Supervised By : Mahesh Dadoda 06/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	84052	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	143506	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	131426	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	68222	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	70828	47.365	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 94.720%			
35) Dibromofluoromethane	5.397	113	55906	52.974	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.940%			
50) Toluene-d8	8.647	98	179208	51.507	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.020%			
62) 4-Bromofluorobenzene	11.079	95	76446	53.104	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.200%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.185	85	21364	18.308	ug/l	100
3) Chloromethane	1.307	50	19522	18.380	ug/l	96
4) Vinyl Chloride	1.386	62	19755	18.658	ug/l	95
5) Bromomethane	1.630	94	12259	19.072	ug/l	100
6) Chloroethane	1.703	64	11361	16.538	ug/l #	87
7) Trichlorofluoromethane	1.904	101	31526	17.996	ug/l	97
8) Diethyl Ether	2.148	74	10811	17.466	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.343	101	21056	19.078	ug/l	95
10) Methyl Iodide	2.465	142	24545	20.515	ug/l	96
11) Tert butyl alcohol	2.959	59	11873	71.554	ug/l	97
12) 1,1-Dichloroethene	2.337	96	19187	19.227	ug/l	85
13) Acrolein	2.251	56	15557	98.221	ug/l	100
14) Allyl chloride	2.684	41	34982	17.850	ug/l	93
15) Acrylonitrile	3.075	53	58538	93.306	ug/l	98
16) Acetone	2.392	43	44483	78.955	ug/l	93
17) Carbon Disulfide	2.526	76	39330	18.689	ug/l	99
18) Methyl Acetate	2.715	43	32974	18.512	ug/l	97
19) Methyl tert-butyl Ether	3.123	73	70651	20.234	ug/l	98
20) Methylene Chloride	2.806	84	22844	19.042	ug/l	92
21) trans-1,2-Dichloroethene	3.105	96	20405	19.322	ug/l	93
22) Diisopropyl ether	3.776	45	81863	21.187	ug/l #	82
23) Vinyl Acetate	3.733	43	295594	99.089	ug/l	100
24) 1,1-Dichloroethane	3.629	63	43840	20.358	ug/l	98
25) 2-Butanone	4.568	43	72292	86.843	ug/l	98
26) 2,2-Dichloropropane	4.489	77	32929	20.598	ug/l	98
27) cis-1,2-Dichloroethene	4.507	96	26773	20.594	ug/l	95
28) Bromochloromethane	4.916	49	20852	20.302	ug/l	99
29) Tetrahydrofuran	5.019	42	45988	87.477	ug/l	100
30) Chloroform	5.105	83	47450	21.029	ug/l	99
31) Cyclohexane	5.483	56	33142	19.064	ug/l	89
32) 1,1,1-Trichloroethane	5.397	97	39813	20.627	ug/l	97
36) 1,1-Dichloropropene	5.702	75	29838	19.793	ug/l	99
37) Ethyl Acetate	4.733	43	29233	19.869	ug/l	98
38) Carbon Tetrachloride	5.690	117	34504	20.435	ug/l	99
39) Methylcyclohexane	7.385	83	34288	19.270	ug/l	99
40) Benzene	6.050	78	88942	20.958	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
 Data File : VX046589.D
 Acq On : 10 Jun 2025 10:18
 Operator : JC/MD
 Sample : VX0610WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0610WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 06/11/2025
 Supervised By : Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 01:42:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	16637	18.209	ug/l	93
42) 1,2-Dichloroethane	6.098	62	36740	20.810	ug/l	99
43) Isopropyl Acetate	6.348	43	49580	19.330	ug/l	100
44) Trichloroethene	7.129	130	21670	20.097	ug/l	99
45) 1,2-Dichloropropane	7.433	63	23739	21.672	ug/l	99
46) Dibromomethane	7.586	93	17188	20.858	ug/l	98
47) Bromodichloromethane	7.824	83	37295	22.011	ug/l	95
48) Methyl methacrylate	7.696	41	25179	19.079	ug/l	95
49) 1,4-Dioxane	7.659	88	6473	366.785	ug/l #	90
51) 4-Methyl-2-Pentanone	8.573	43	160847	98.684	ug/l	100
52) Toluene	8.720	92	55219	21.179	ug/l	99
53) t-1,3-Dichloropropene	8.982	75	31694	20.862	ug/l	96
54) cis-1,3-Dichloropropene	8.366	75	35775	21.180	ug/l	92
55) 1,1,2-Trichloroethane	9.153	97	22559	21.553	ug/l	95
56) Ethyl methacrylate	9.116	69	32654	20.274	ug/l	95
57) 1,3-Dichloropropane	9.311	76	39081	21.129	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.244	63	81610	93.023	ug/l	98
59) 2-Hexanone	9.433	43	111008	94.963	ug/l	99
60) Dibromochloromethane	9.518	129	27795	22.577	ug/l	97
61) 1,2-Dibromoethane	9.610	107	22620	20.739	ug/l	98
64) Tetrachloroethene	9.275	164	17851	20.312	ug/l	94
65) Chlorobenzene	10.079	112	62603	20.253	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	22301	21.351	ug/l	99
67) Ethyl Benzene	10.195	91	109725	20.334	ug/l	98
68) m/p-Xylenes	10.299	106	81525	41.649	ug/l	98
69) o-Xylene	10.640	106	40019	21.137	ug/l	98
70) Styrene	10.652	104	69335	21.393	ug/l	99
71) Bromoform	10.799	173	16884	21.200	ug/l #	99
73) Isopropylbenzene	10.963	105	108394	20.212	ug/l	99
74) N-amyl acetate	10.841	43	43808	18.549	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	34119	19.876	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	27186m	18.813	ug/l	
77) Bromobenzene	11.195	156	26036	20.916	ug/l	96
78) n-propylbenzene	11.305	91	129891	20.011	ug/l	100
79) 2-Chlorotoluene	11.366	91	78249	19.991	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	91704	20.520	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	8748	17.463	ug/l	98
82) 4-Chlorotoluene	11.451	91	93212	20.090	ug/l	97
83) tert-Butylbenzene	11.713	119	92923	20.426	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	94205	20.838	ug/l	99
85) sec-Butylbenzene	11.890	105	119911	20.513	ug/l	100
86) p-Isopropyltoluene	12.006	119	98241	20.160	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	48297	19.981	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	49276	19.673	ug/l	98
89) n-Butylbenzene	12.329	91	95315	19.917	ug/l	99
90) Hexachloroethane	12.536	117	16834	19.436	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	48730	20.885	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	6919	18.000	ug/l	95
93) 1,2,4-Trichlorobenzene	13.585	180	30939	19.438	ug/l	100
94) Hexachlorobutadiene	13.719	225	14378	19.438	ug/l	98
95) Naphthalene	13.774	128	98907	19.595	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	30702	19.237	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
Data File : VX046589.D
Acq On : 10 Jun 2025 10:18
Operator : JC/MD
Sample : VX0610WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 11 01:42:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

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

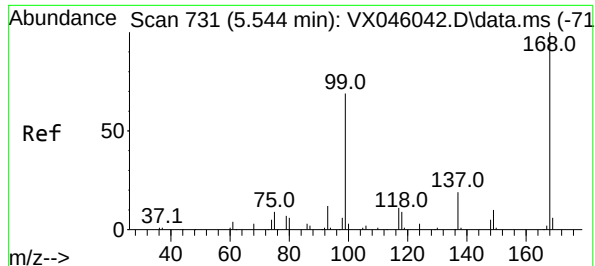
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01

Manual Integrations

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025





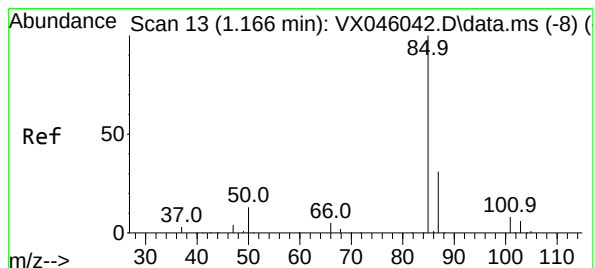
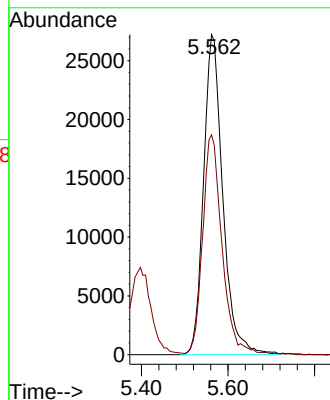
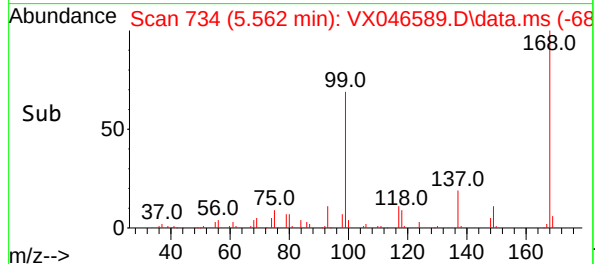
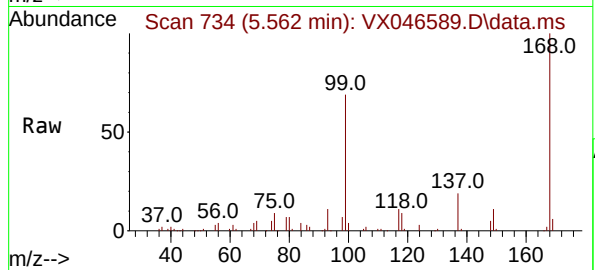
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01

Tgt Ion:168 Resp: 8405
Ion Ratio Lower Upper
168 100
99 68.4 54.9 82.3

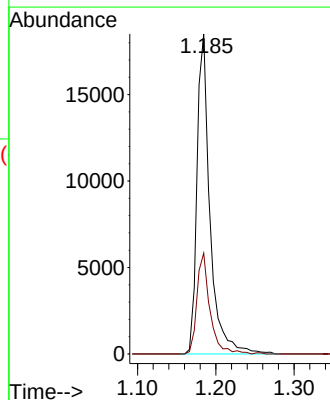
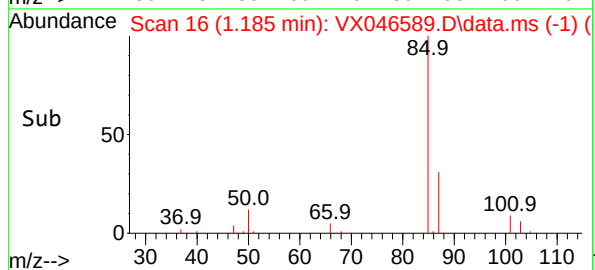
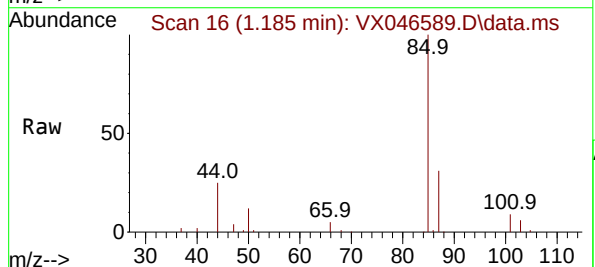
Manual Integrations
APPROVED

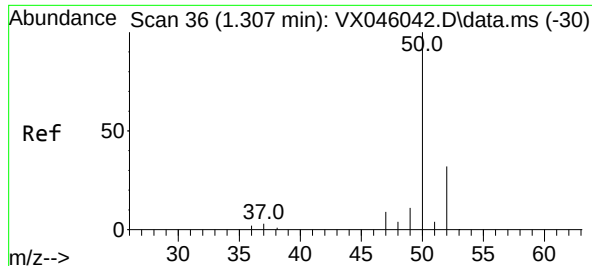
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#2
Dichlorodifluoromethane
Concen: 18.308 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Tgt Ion: 85 Resp: 21364
Ion Ratio Lower Upper
85 100
87 31.5 15.7 47.1





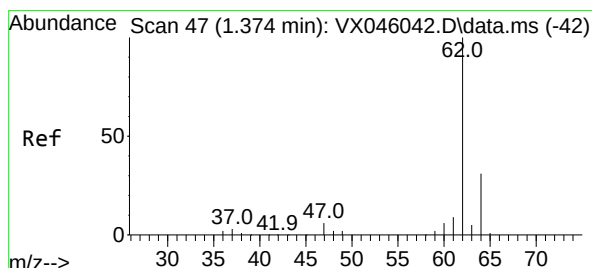
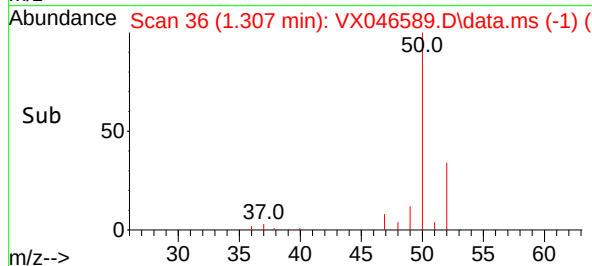
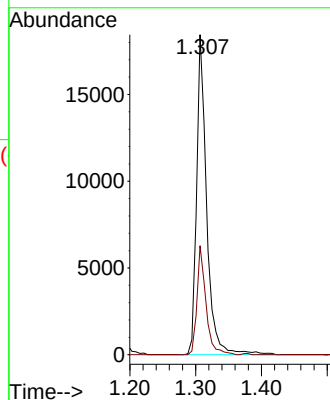
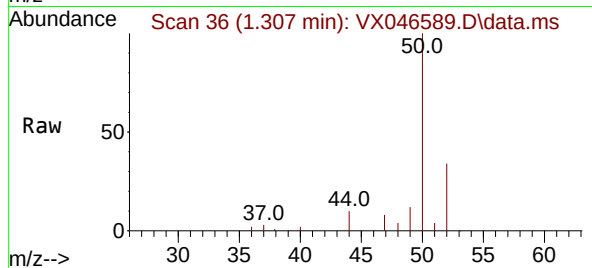
#3
Chloromethane
Concen: 18.380 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01

Tgt Ion: 50 Resp: 1952
Ion Ratio Lower Upper
50 100
52 34.1 25.4 38.2

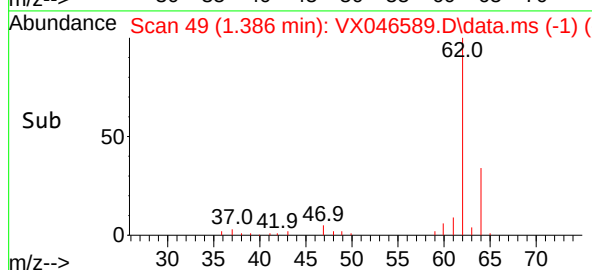
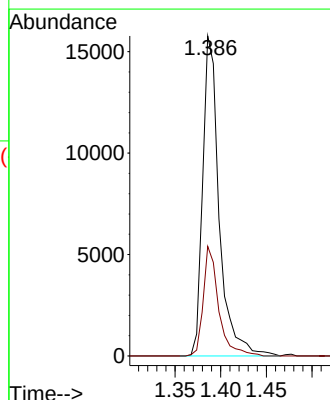
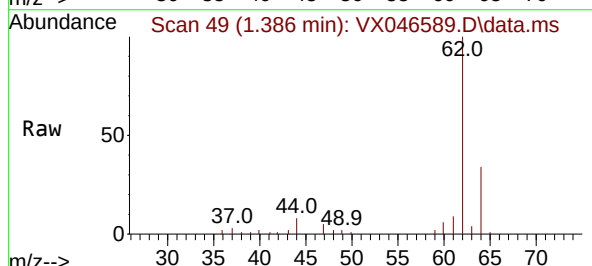
Manual Integrations
APPROVED

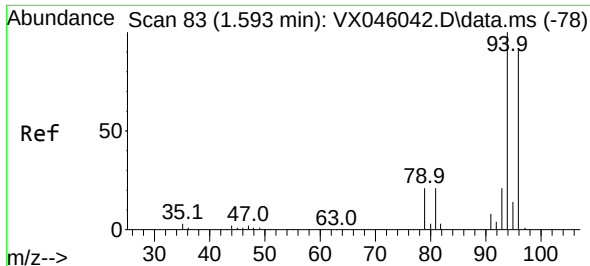
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#4
Vinyl Chloride
Concen: 18.658 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Tgt Ion: 62 Resp: 19755
Ion Ratio Lower Upper
62 100
64 34.3 25.2 37.8





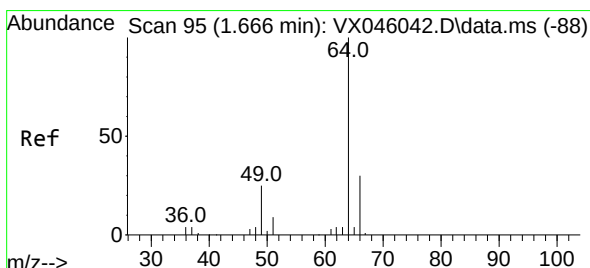
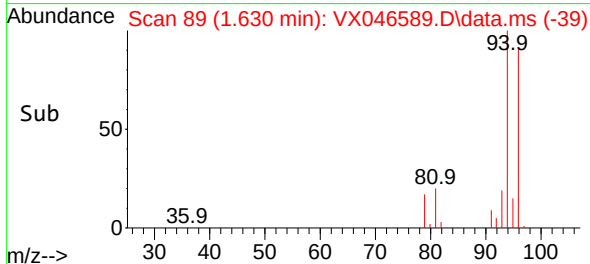
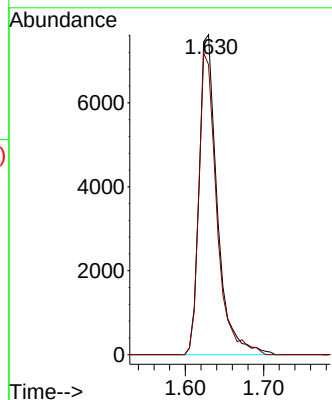
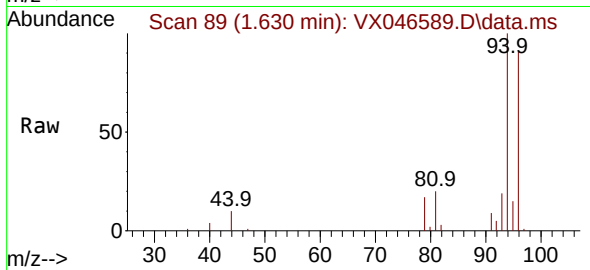
#5
Bromomethane
Concen: 19.072 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.006 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01

Tgt Ion: 94 Resp: 12259
Ion Ratio Lower Upper
94 100
96 90.7 72.8 109.2

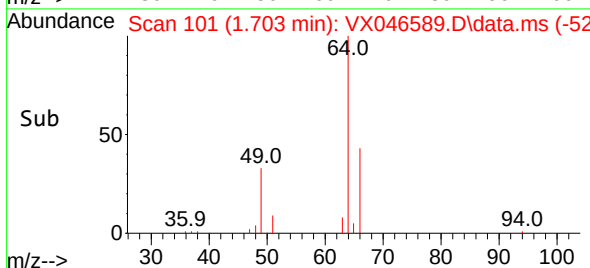
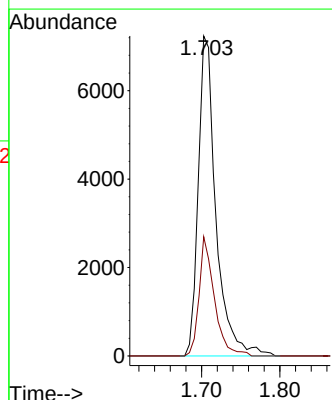
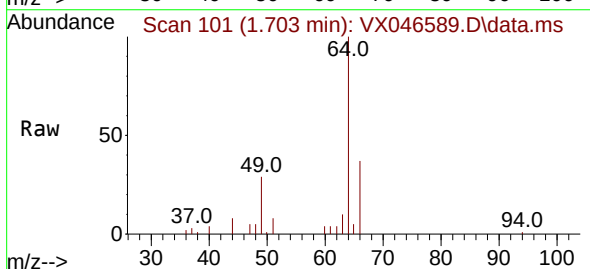
Manual Integrations
APPROVED

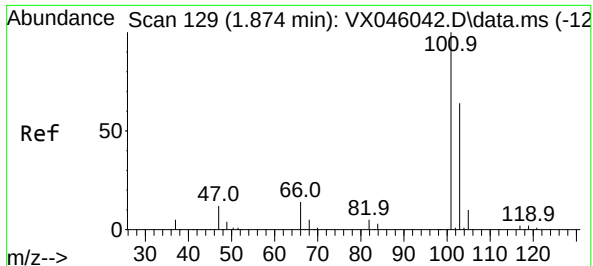
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#6
Chloroethane
Concen: 16.538 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Tgt Ion: 64 Resp: 11361
Ion Ratio Lower Upper
64 100
66 37.2 24.3 36.5#





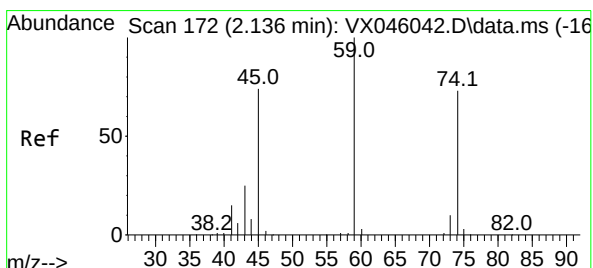
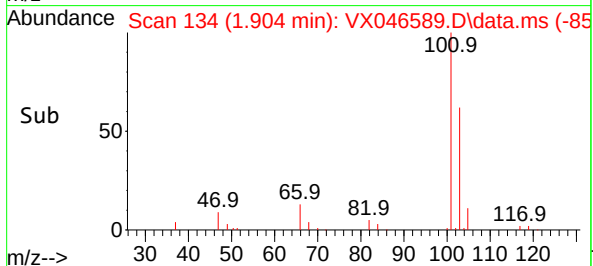
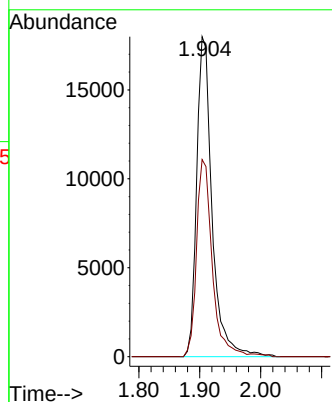
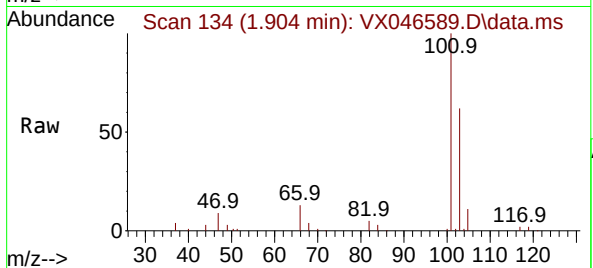
#7
Trichlorofluoromethane
Concen: 17.996 ug/l
RT: 1.904 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01

Tgt Ion:101 Resp: 31520
Ion Ratio Lower Upper
101 100
103 61.6 51.0 76.4

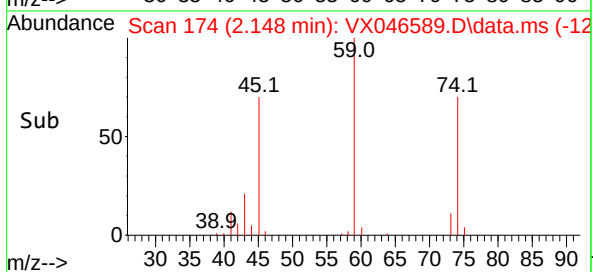
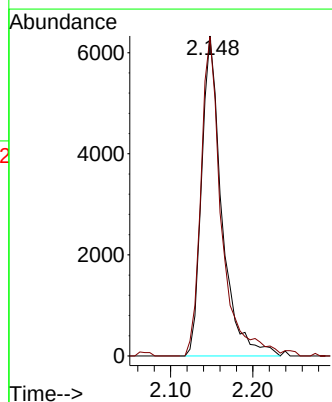
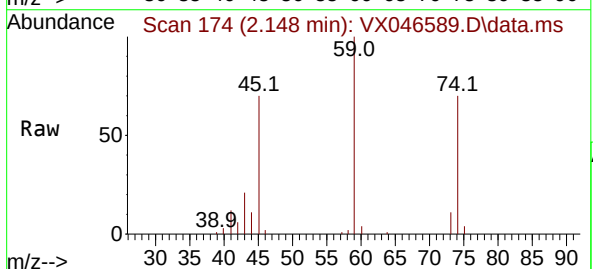
Manual Integrations
APPROVED

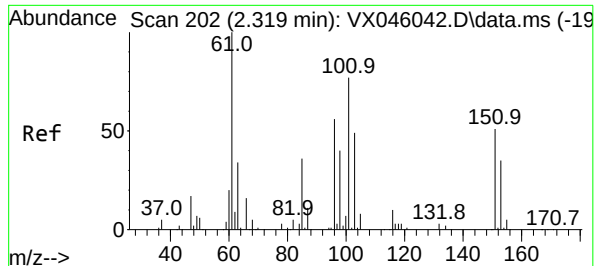
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#8
Diethyl Ether
Concen: 17.466 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.006 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Tgt Ion: 74 Resp: 10811
Ion Ratio Lower Upper
74 100
45 101.2 54.9 164.8





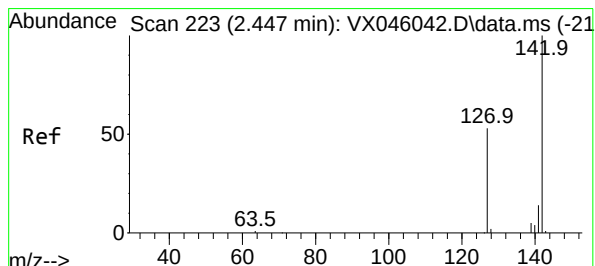
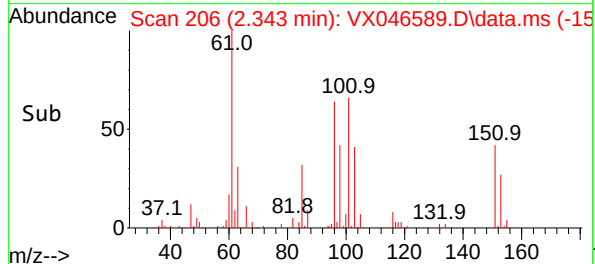
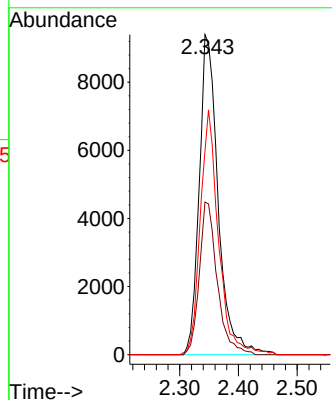
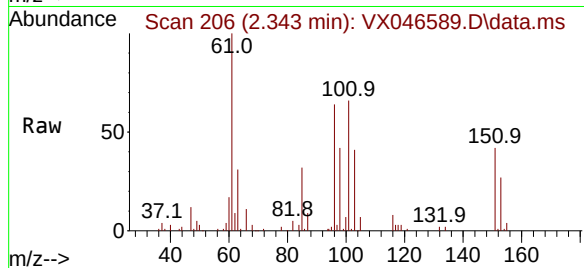
#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.078 ug/l
RT: 2.343 min Scan# 206
Delta R.T. -0.006 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01

Tgt Ion:101 Resp: 2105
Ion Ratio Lower Upper
101 100
85 45.3 38.6 58.0
151 73.6 55.2 82.8

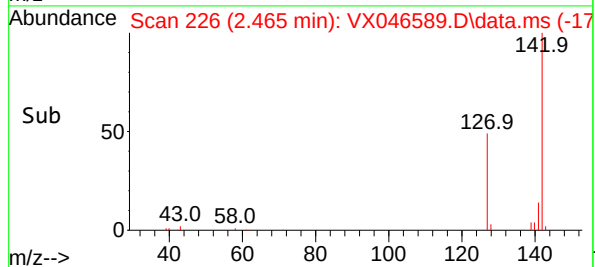
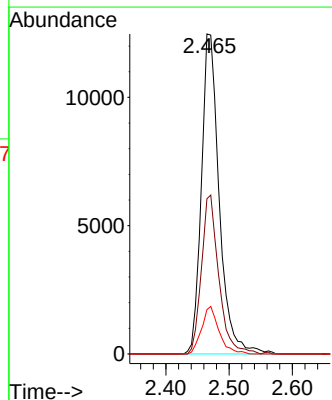
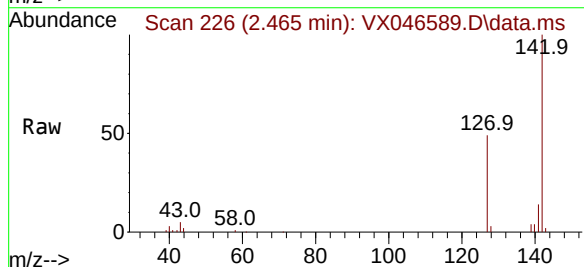
Manual Integrations
APPROVED

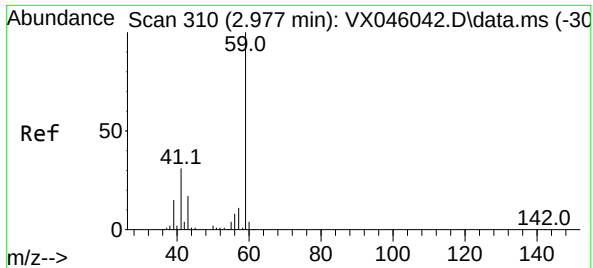
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#10
Methyl Iodide
Concen: 20.515 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Tgt Ion:142 Resp: 24545
Ion Ratio Lower Upper
142 100
127 48.2 41.7 62.5
141 14.5 11.5 17.3





#11

Tert butyl alcohol

Concen: 71.554 ug/l

RT: 2.959 min Scan# 307

Delta R.T. -0.012 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBS01

Tgt Ion: 59 Resp: 1187

Ion Ratio Lower Upper

59 100

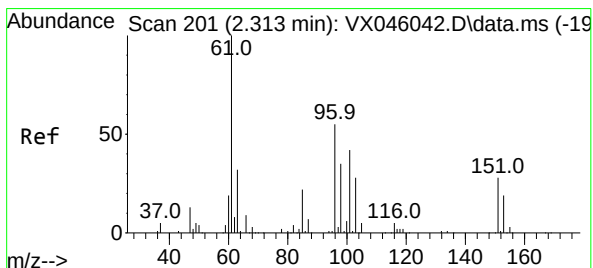
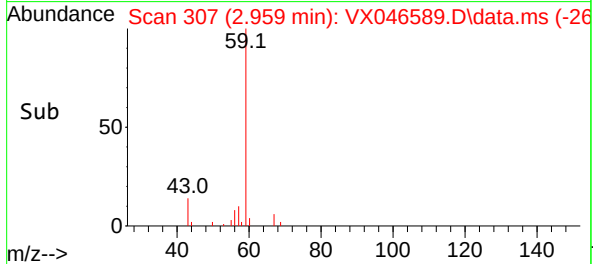
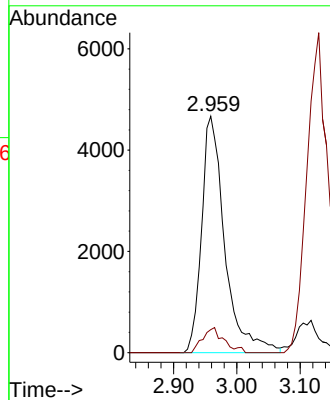
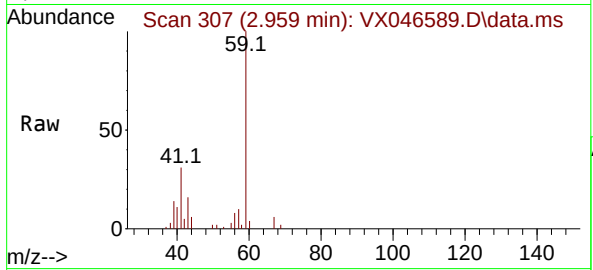
57 9.7 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#12

1,1-Dichloroethene

Concen: 19.227 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

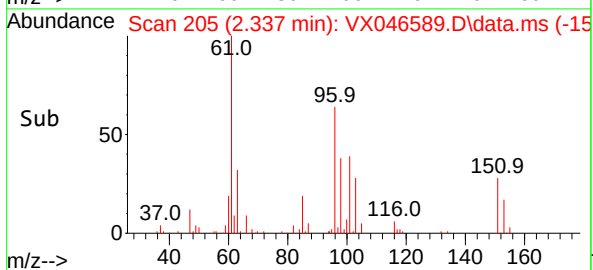
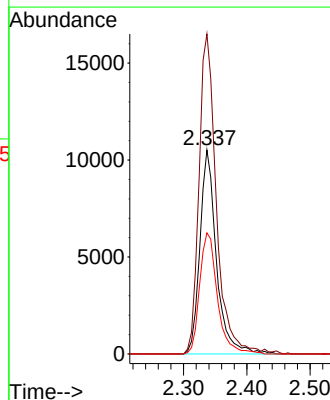
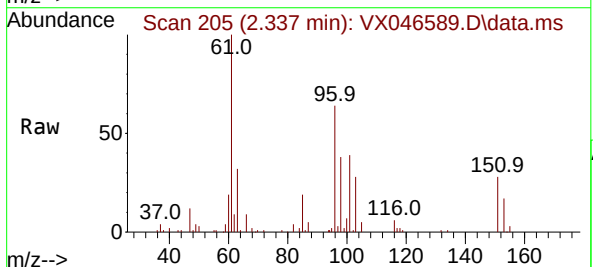
Tgt Ion: 96 Resp: 19187

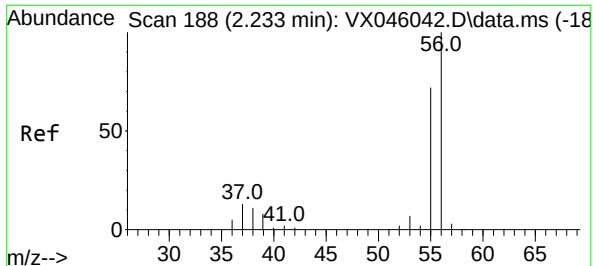
Ion Ratio Lower Upper

96 100

61 156.9 146.2 219.2

98 59.4 51.0 76.6





#13

Acrolein

Concen: 98.221 ug/l

RT: 2.251 min Scan# 188

Delta R.T. 0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBS01

Tgt Ion: 56 Resp: 1555

Ion Ratio Lower Upper

56 100

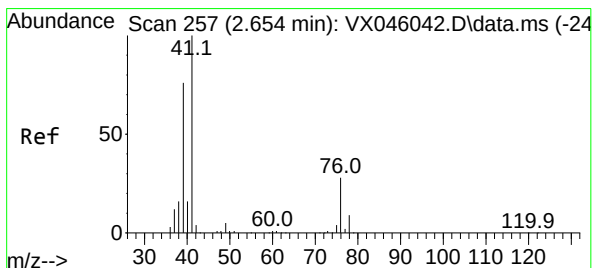
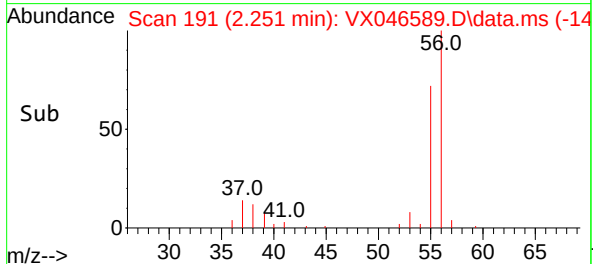
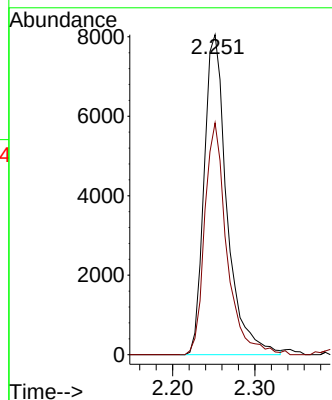
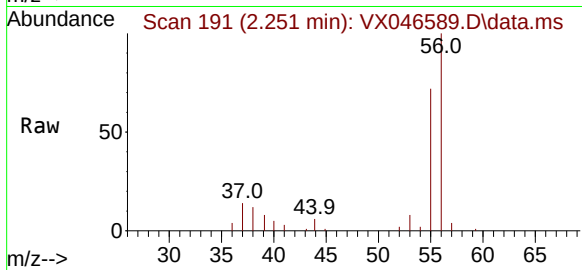
55 70.2 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#14

Allyl chloride

Concen: 17.850 ug/l

RT: 2.684 min Scan# 262

Delta R.T. 0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

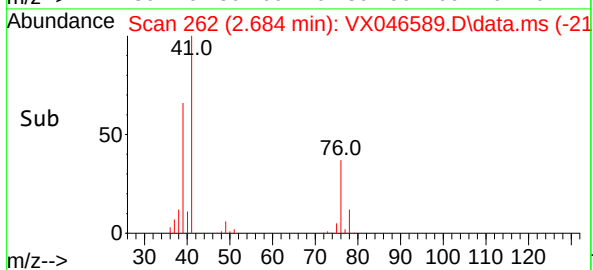
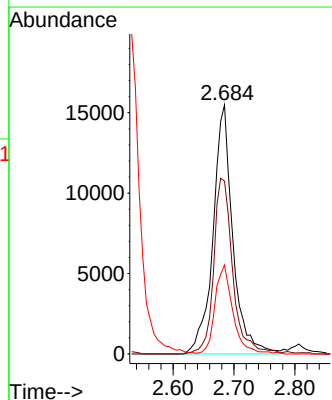
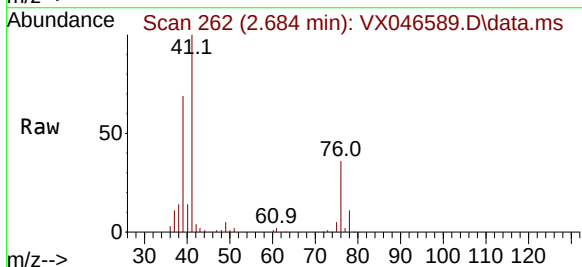
Tgt Ion: 41 Resp: 34982

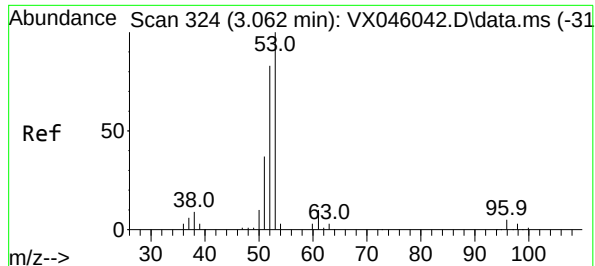
Ion Ratio Lower Upper

41 100

39 67.9 60.6 90.8

76 32.3 24.9 37.3





#15

Acrylonitrile

Concen: 93.306 ug/l

RT: 3.075 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBS01

Tgt Ion: 53 Resp: 5853

Ion Ratio Lower Upper

53 100

52 83.1 65.3 97.9

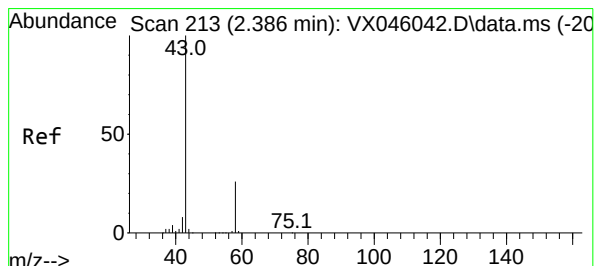
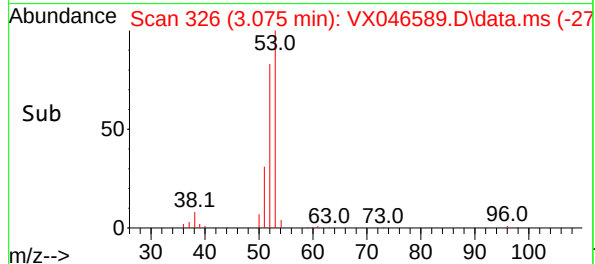
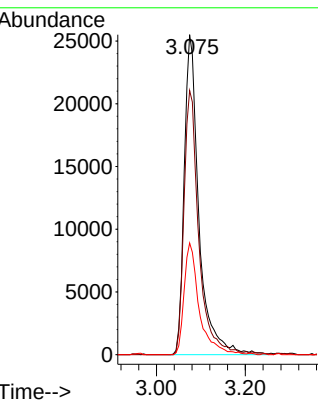
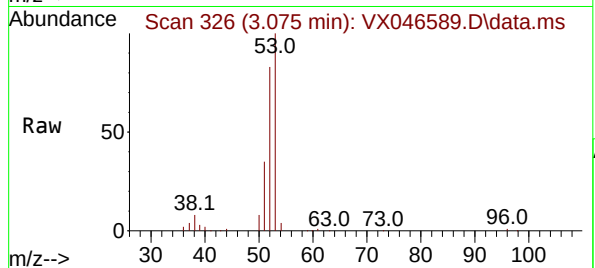
51 36.1 29.8 44.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#16

Acetone

Concen: 78.955 ug/l

RT: 2.392 min Scan# 214

Delta R.T. -0.000 min

Lab File: VX046589.D

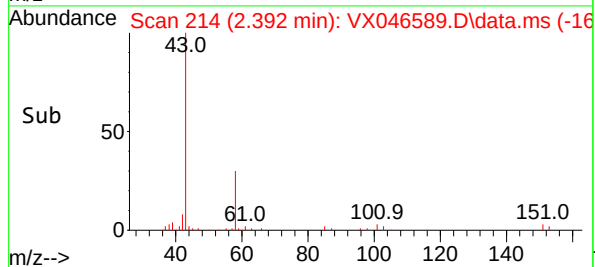
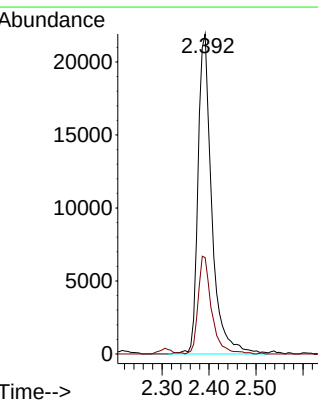
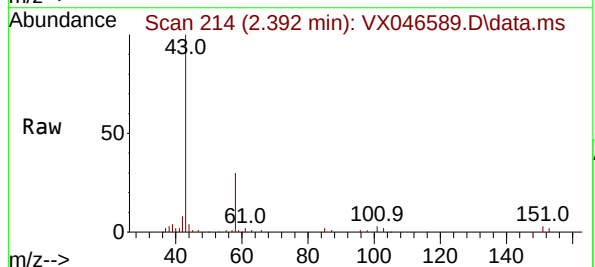
Acq: 10 Jun 2025 10:18

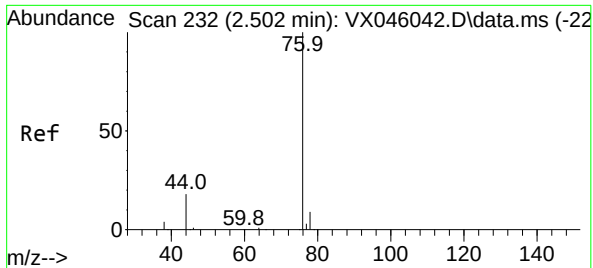
Tgt Ion: 43 Resp: 44483

Ion Ratio Lower Upper

43 100

58 30.1 21.2 31.8





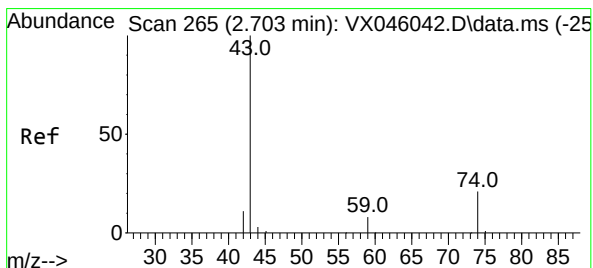
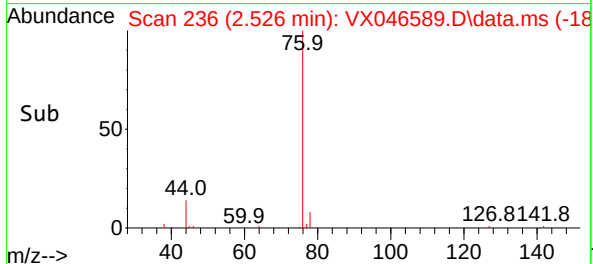
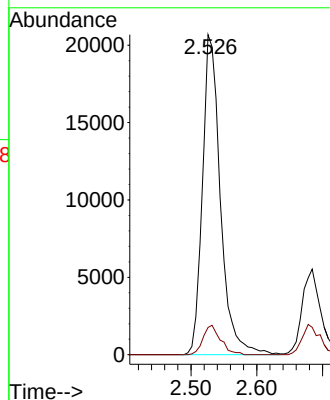
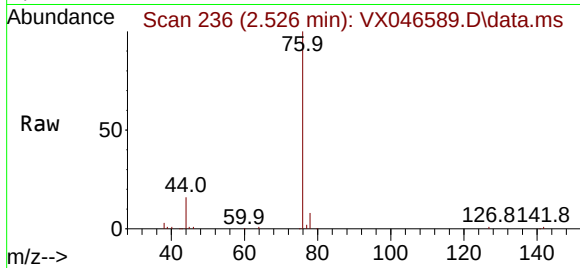
#17
Carbon Disulfide
Concen: 18.689 ug/l
RT: 2.526 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01

Tgt Ion: 76 Resp: 39330
Ion Ratio Lower Upper
76 100
78 8.5 7.0 10.4

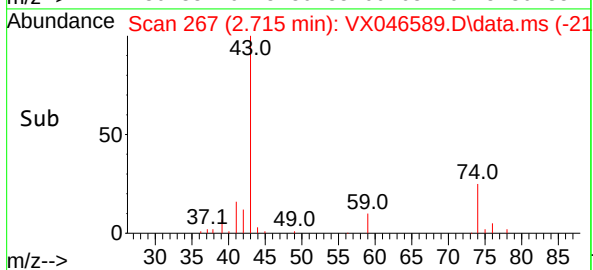
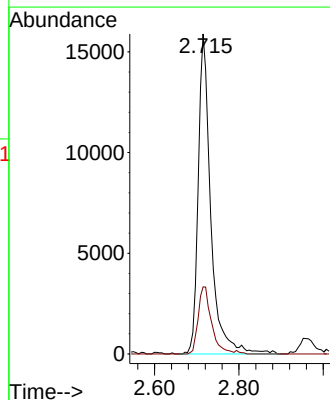
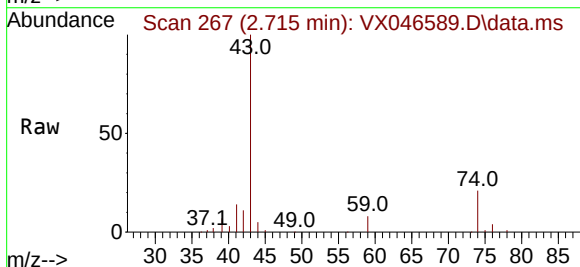
Manual Integrations
APPROVED

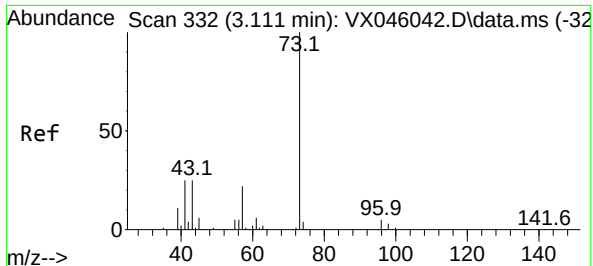
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#18
Methyl Acetate
Concen: 18.512 ug/l
RT: 2.715 min Scan# 267
Delta R.T. -0.006 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Tgt Ion: 43 Resp: 32974
Ion Ratio Lower Upper
43 100
74 22.1 16.7 25.1





#19

Methyl tert-butyl Ether

Concen: 20.234 ug/l

RT: 3.123 min Scan# 31

Delta R.T. -0.012 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBS01

Tgt Ion: 73 Resp: 7065

Ion Ratio Lower Upper

73 100

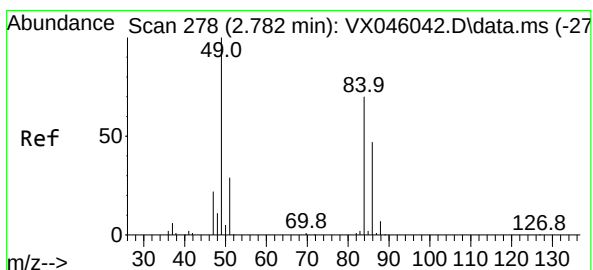
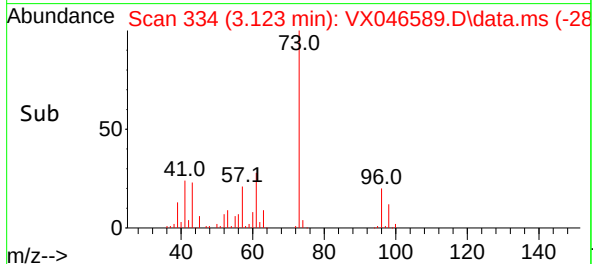
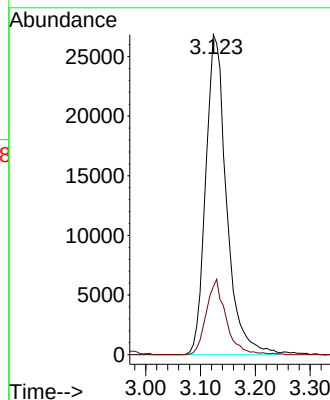
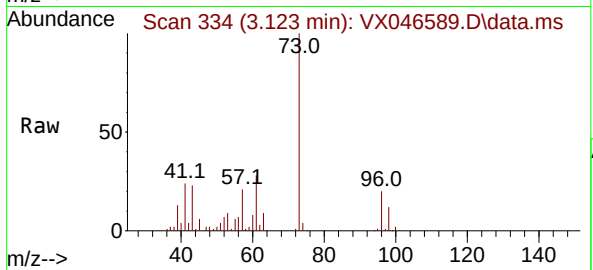
57 21.3 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#20

Methylene Chloride

Concen: 19.042 ug/l

RT: 2.806 min Scan# 282

Delta R.T. 0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Tgt Ion: 84 Resp: 22844

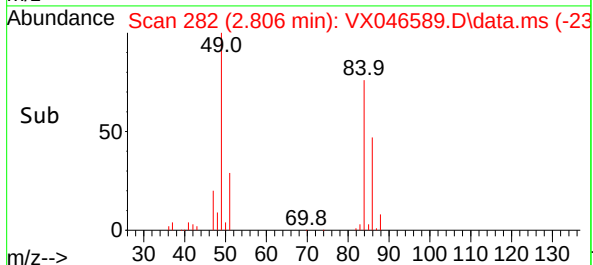
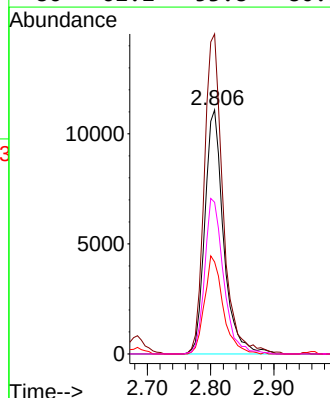
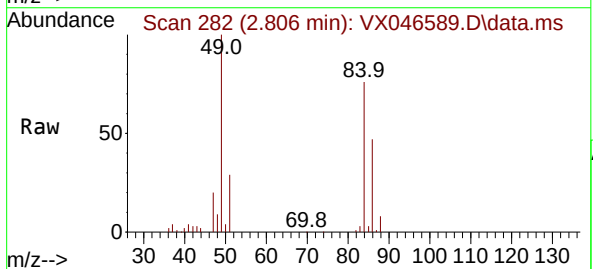
Ion Ratio Lower Upper

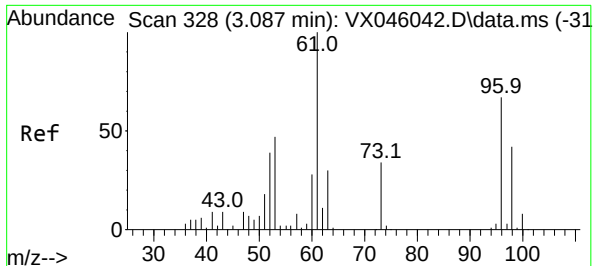
84 100

49 131.2 113.9 170.9

51 37.7 33.5 50.3

86 62.2 53.8 80.8





#21

trans-1,2-Dichloroethene

Concen: 19.322 ug/l

RT: 3.105 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBS01

Tgt Ion: 96 Resp: 2040

Ion Ratio Lower Upper

96 100

61 139.8 119.5 179.3

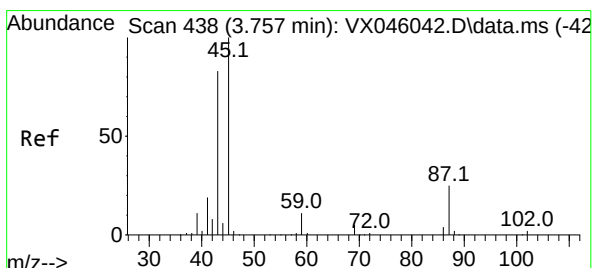
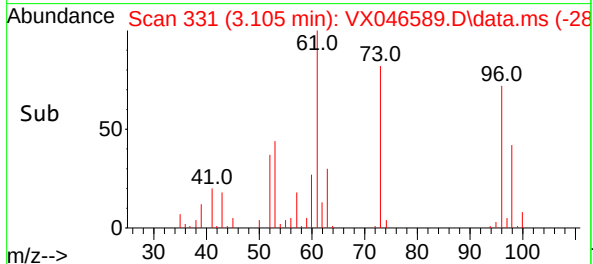
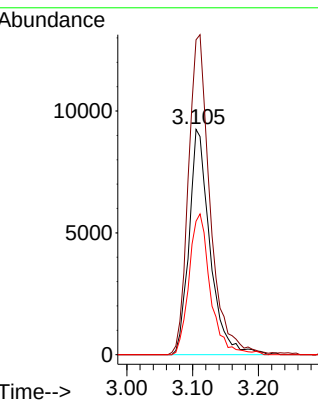
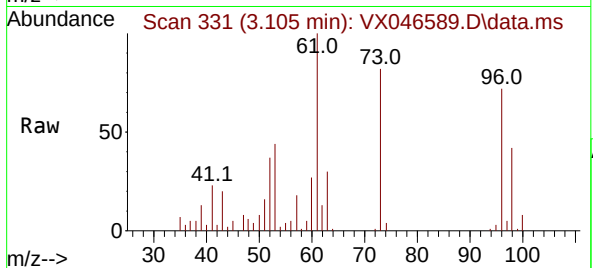
98 59.2 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#22

Diisopropyl ether

Concen: 21.187 ug/l

RT: 3.776 min Scan# 441

Delta R.T. -0.006 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Tgt Ion: 45 Resp: 81863

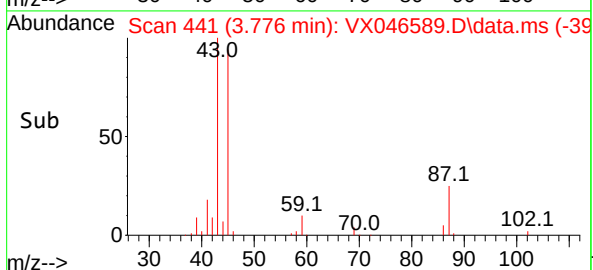
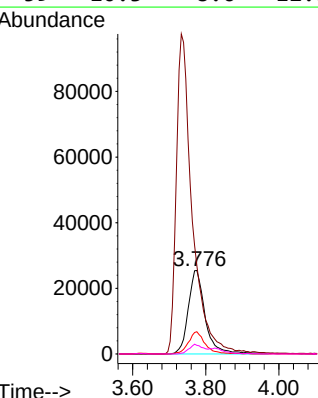
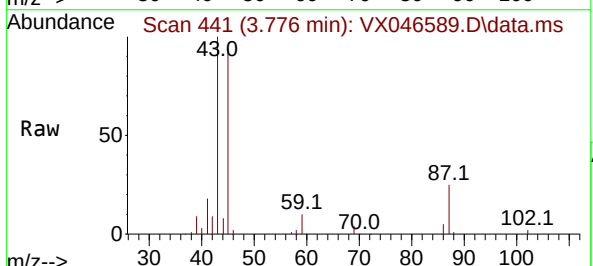
Ion Ratio Lower Upper

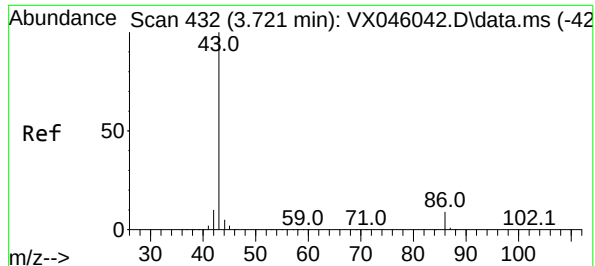
45 100

43 104.6 66.6 100.0#

87 26.7 19.8 29.6

59 10.3 8.6 12.8





#23

Vinyl Acetate

Concen: 99.089 ug/l

RT: 3.733 min Scan# 41

Delta R.T. -0.006 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBS01

Tgt Ion: 43 Resp: 295594

Ion Ratio Lower Upper

43 100

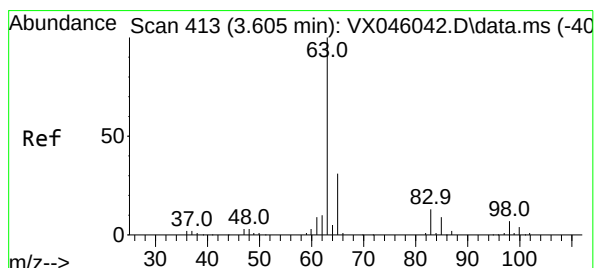
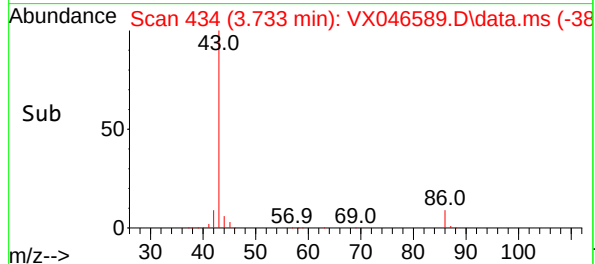
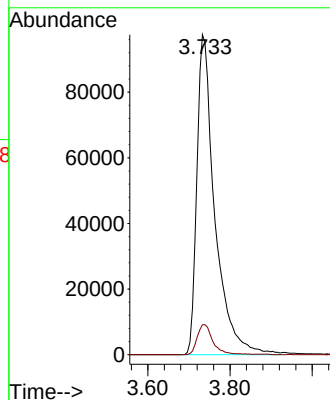
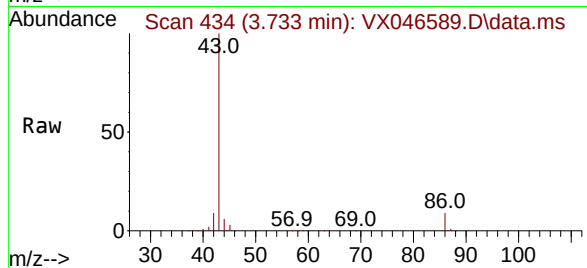
86 9.3 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#24

1,1-Dichloroethane

Concen: 20.358 ug/l

RT: 3.629 min Scan# 417

Delta R.T. 0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

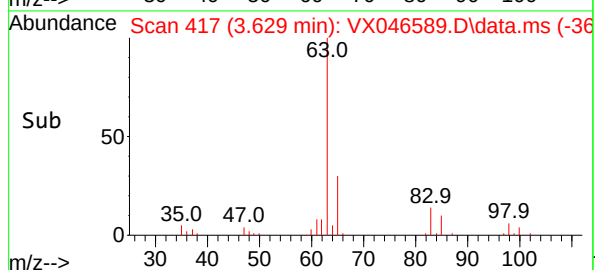
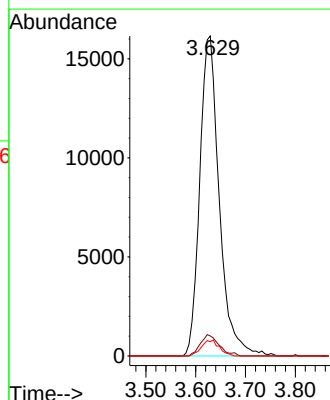
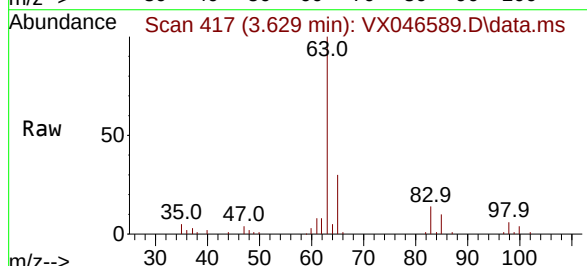
Tgt Ion: 63 Resp: 43840

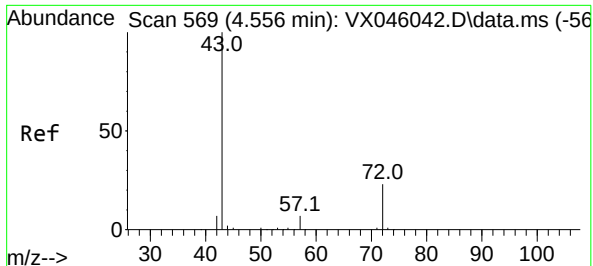
Ion Ratio Lower Upper

63 100

98 6.3 3.6 10.8

100 4.5 2.1 6.3





#25

2-Butanone

Concen: 86.843 ug/l

RT: 4.568 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBS01

Tgt Ion: 43 Resp: 72292

Ion Ratio Lower Upper

43 100

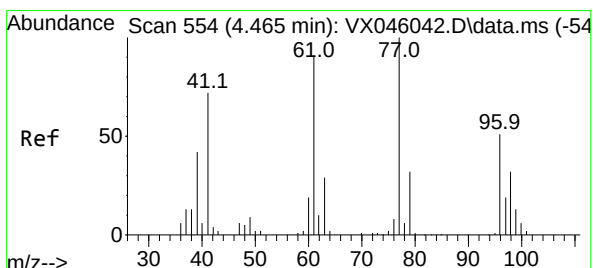
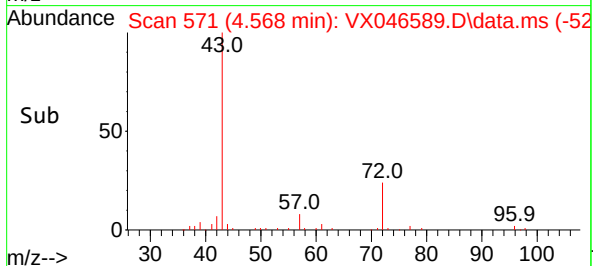
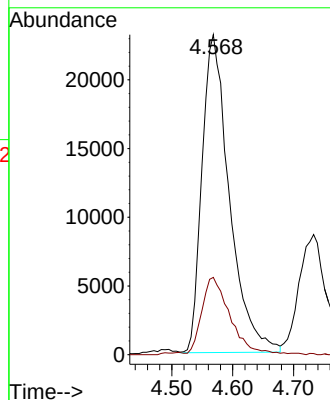
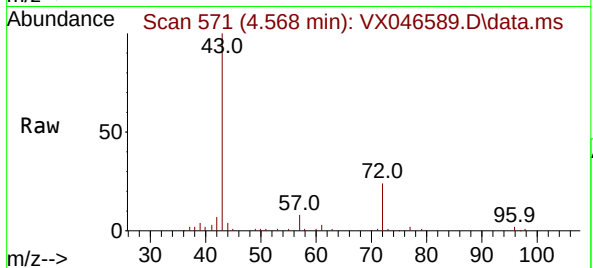
72 23.9 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#26

2,2-Dichloropropane

Concen: 20.598 ug/l

RT: 4.489 min Scan# 558

Delta R.T. -0.006 min

Lab File: VX046589.D

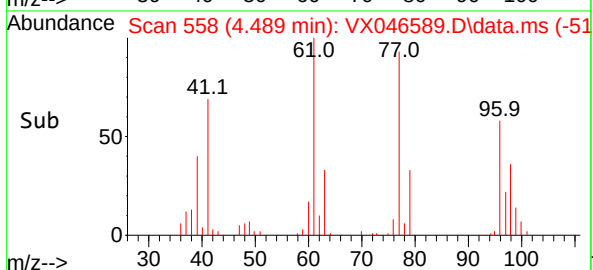
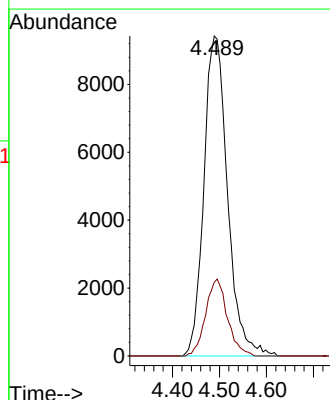
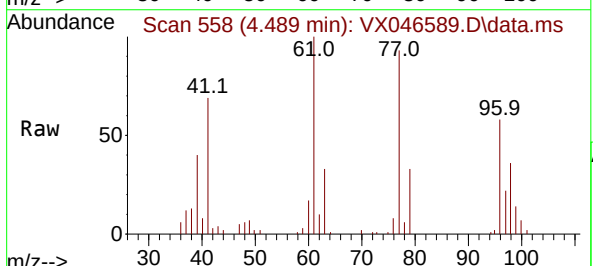
Acq: 10 Jun 2025 10:18

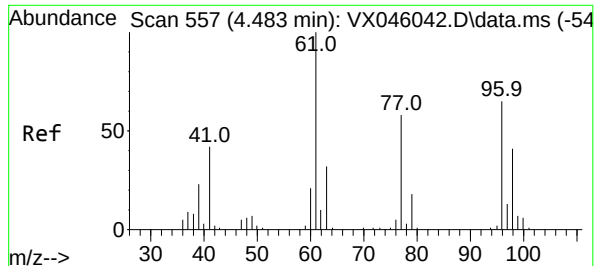
Tgt Ion: 77 Resp: 32929

Ion Ratio Lower Upper

77 100

97 22.1 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 20.594 ug/l

RT: 4.507 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBS01

Tgt Ion: 96 Resp: 2677

Ion Ratio Lower Upper

96 100

61 152.5 0.0 322.8

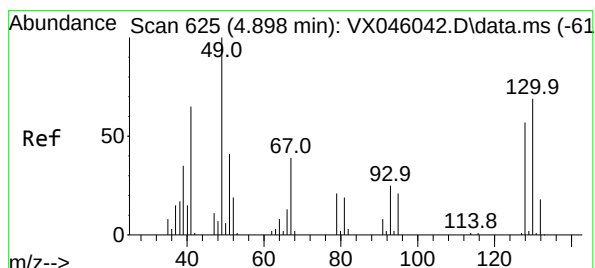
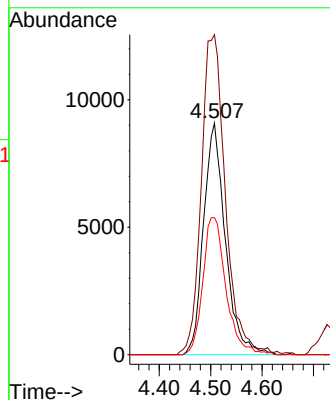
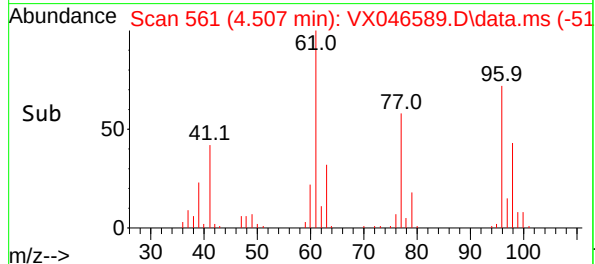
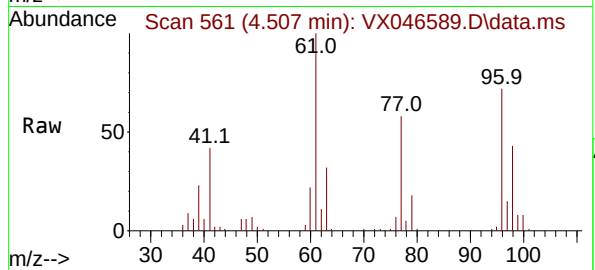
98 62.9 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#28

Bromochloromethane

Concen: 20.302 ug/l

RT: 4.916 min Scan# 628

Delta R.T. -0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

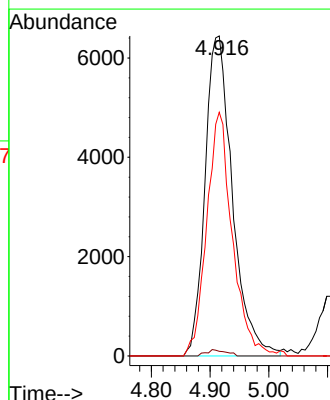
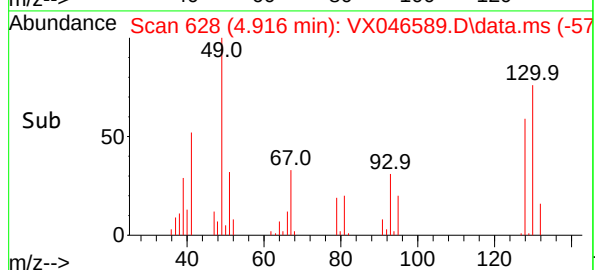
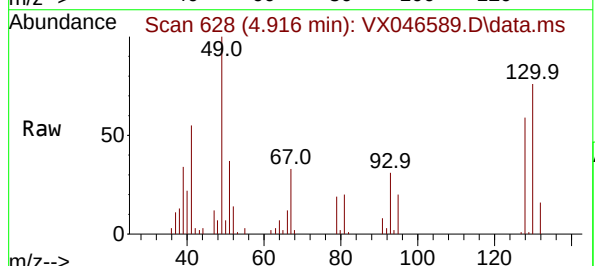
Tgt Ion: 49 Resp: 20852

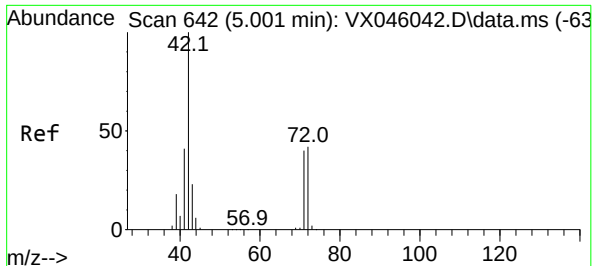
Ion Ratio Lower Upper

49 100

129 1.4 0.0 4.0

130 71.2 56.2 84.2





#29

Tetrahydrofuran

Concen: 87.477 ug/l

RT: 5.019 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

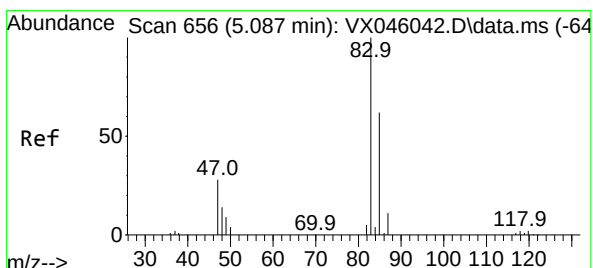
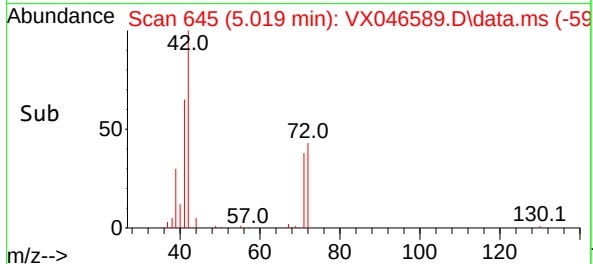
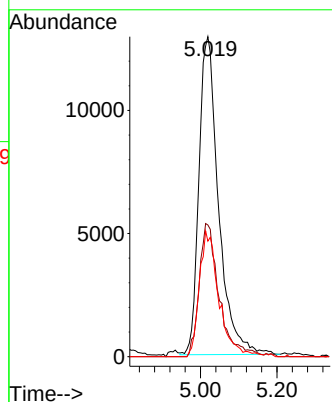
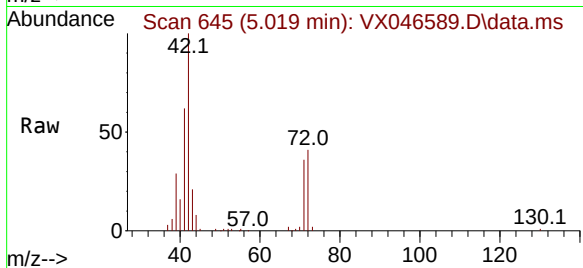
ClientSampleId :

VX0610WBS01

Tgt Ion:	42	Resp:	4598
Ion	Ratio	Lower	Upper
42	100		
72	42.5	33.7	50.5
71	39.4	31.4	47.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#30

Chloroform

Concen: 21.029 ug/l

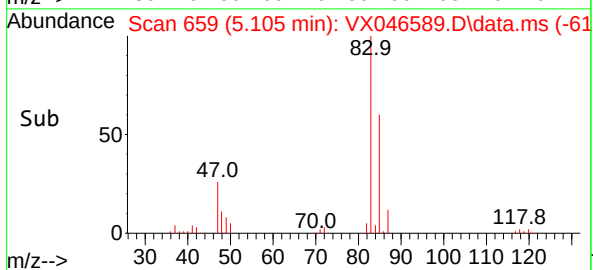
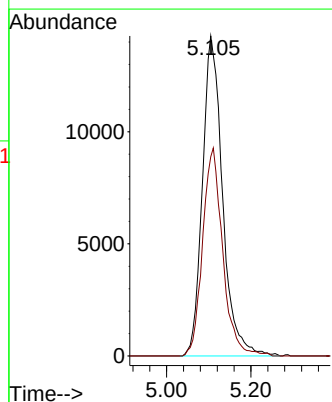
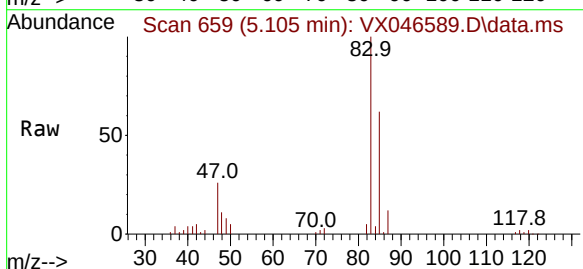
RT: 5.105 min Scan# 659

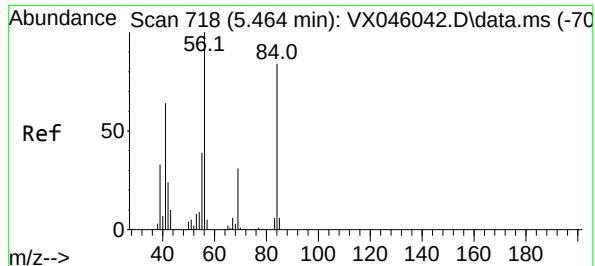
Delta R.T. -0.006 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

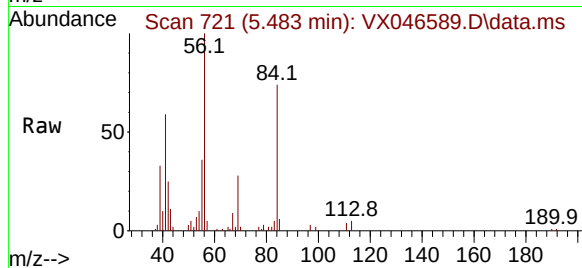
Tgt Ion:	83	Resp:	47450
Ion	Ratio	Lower	Upper
83	100		
85	62.3	49.3	73.9





#31
Cyclohexane
Concen: 19.064 ug/l
RT: 5.483 min Scan# 718
Delta R.T. -0.006 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

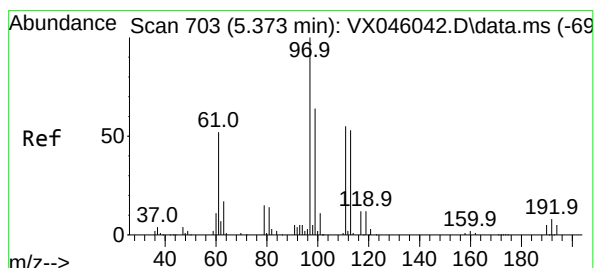
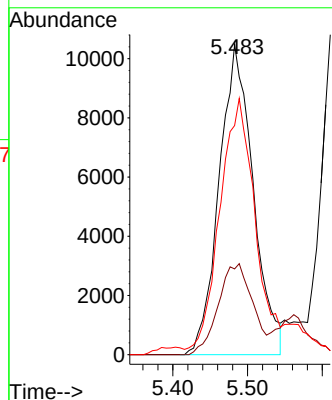
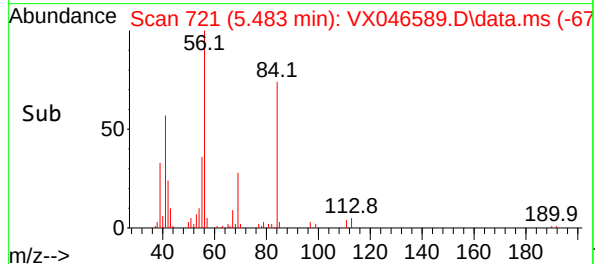
Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01



Tgt Ion: 56 Resp: 3314
Ion Ratio Lower Upper
56 100
69 27.6 24.4 36.6
84 71.6 66.9 100.3

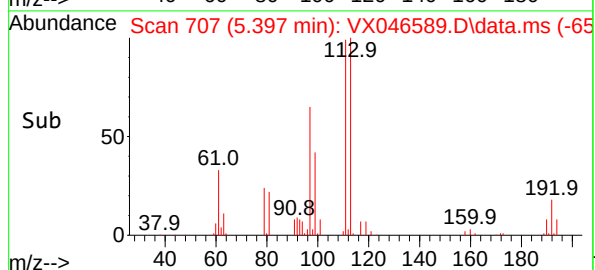
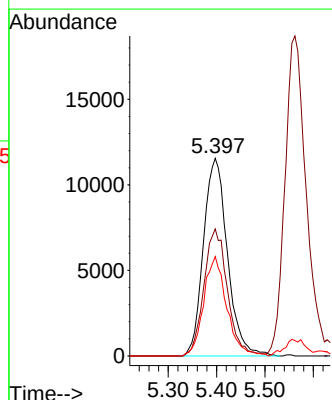
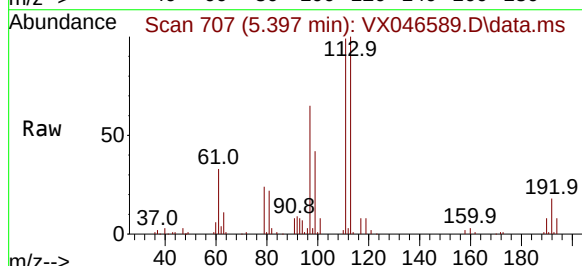
Manual Integrations
APPROVED

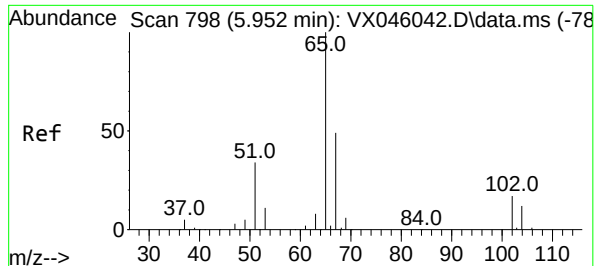
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#32
1,1,1-Trichloroethane
Concen: 20.627 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Tgt Ion: 97 Resp: 39813
Ion Ratio Lower Upper
97 100
99 62.9 51.8 77.6
61 48.2 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 47.365 ug/l

RT: 5.964 min Scan# 800

Delta R.T. -0.006 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Tgt Ion: 65 Resp: 70828

Ion Ratio Lower Upper

65 100

67 50.7 0.0 99.0

Instrument :

MSVOA_X

ClientSampleId :

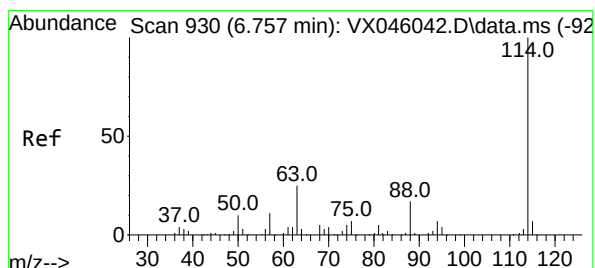
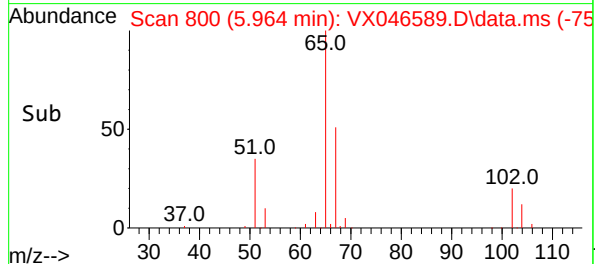
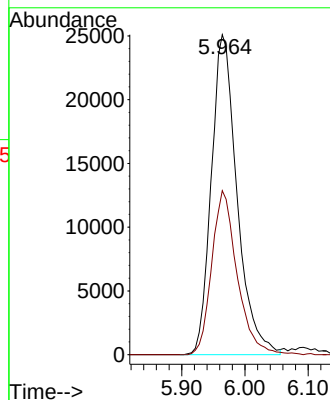
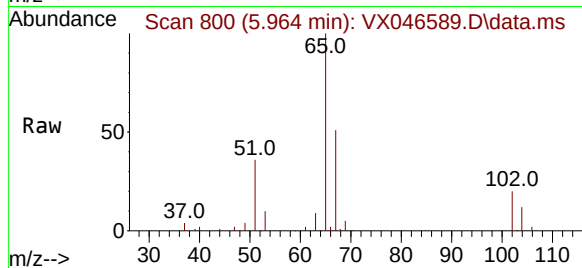
VX0610WBS01

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.006 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

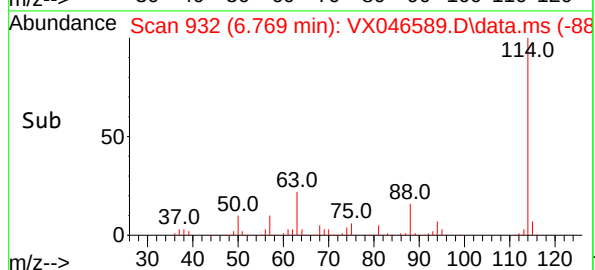
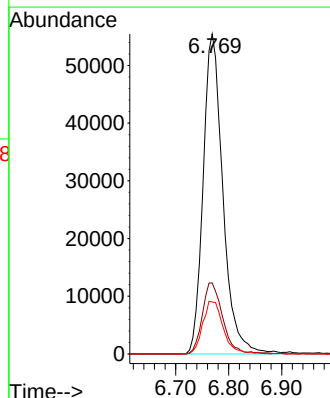
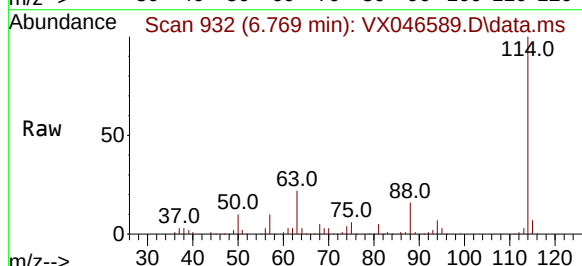
Tgt Ion:114 Resp: 143506

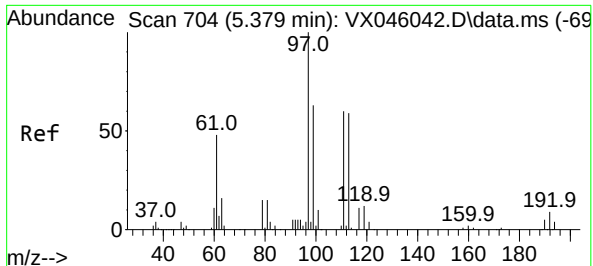
Ion Ratio Lower Upper

114 100

63 22.2 0.0 49.2

88 16.2 0.0 33.6





#35

Dibromofluoromethane

Concen: 52.974 ug/l

RT: 5.397 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

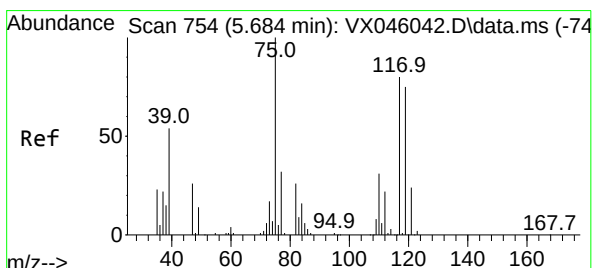
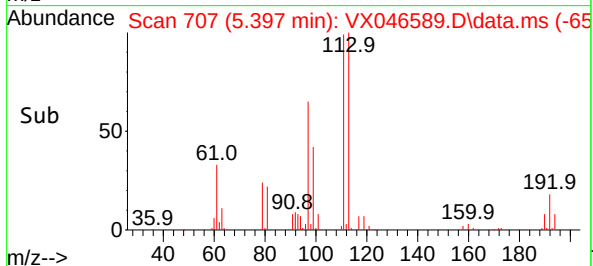
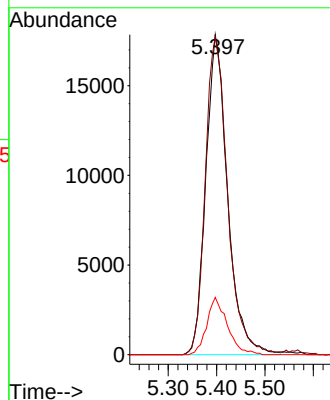
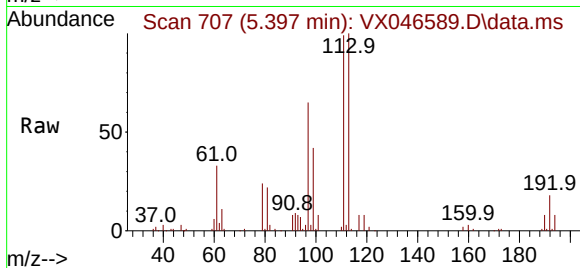
VX0610WBS01

Tgt Ion:	113	Resp:	55900
Ion	Ratio	Lower	Upper
113	100		
111	101.6	83.1	124.7
192	16.9	13.3	19.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#36

1,1-Dichloropropene

Concen: 19.793 ug/l

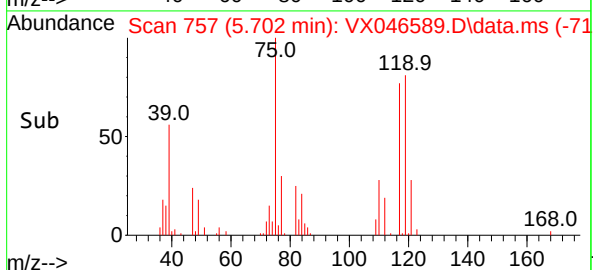
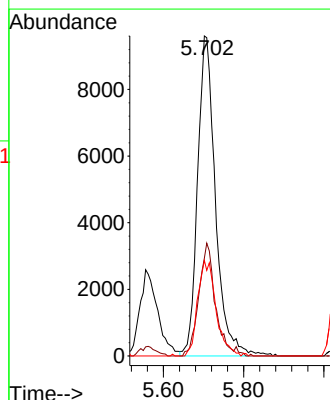
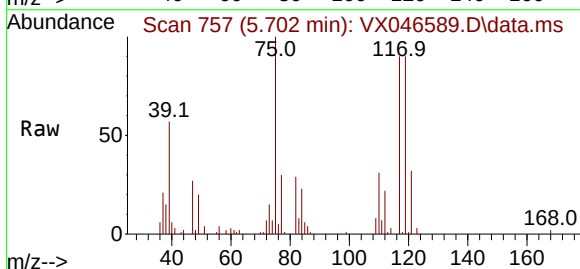
RT: 5.702 min Scan# 757

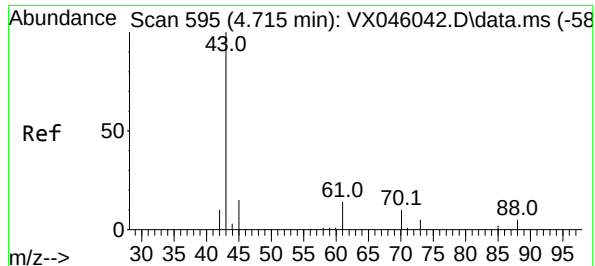
Delta R.T. -0.012 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Tgt Ion:	75	Resp:	29838
Ion	Ratio	Lower	Upper
75	100		
110	32.1	16.3	48.9
77	30.3	24.3	36.5





#37

Ethyl Acetate

Concen: 19.869 ug/l

RT: 4.733 min Scan# 595

Delta R.T. -0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBS01

Tgt Ion: 43 Resp: 2923

Ion Ratio Lower Upper

43 100

61 11.9 10.3 15.5

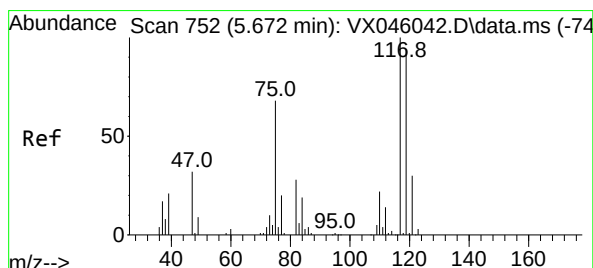
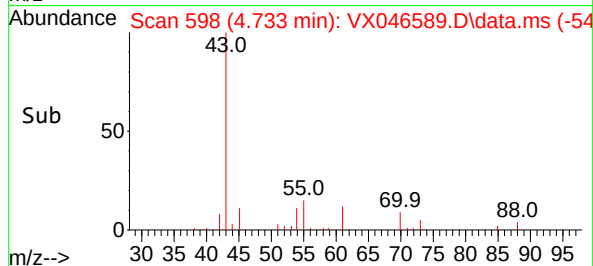
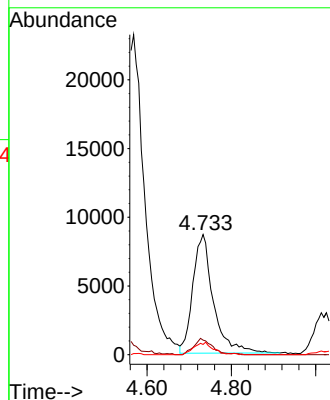
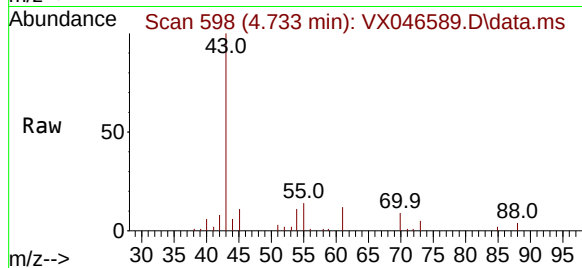
70 9.5 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#38

Carbon Tetrachloride

Concen: 20.435 ug/l

RT: 5.690 min Scan# 755

Delta R.T. -0.006 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

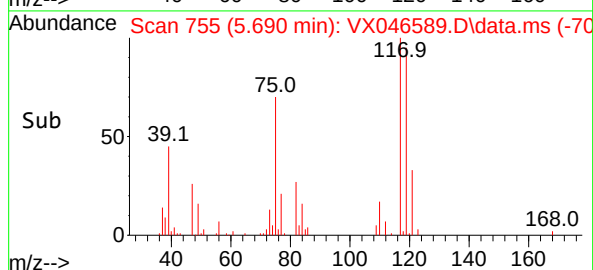
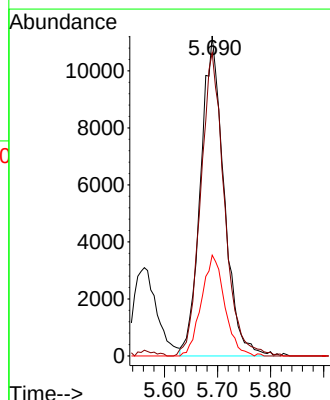
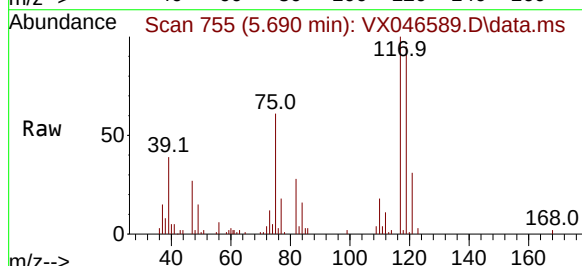
Tgt Ion:117 Resp: 34504

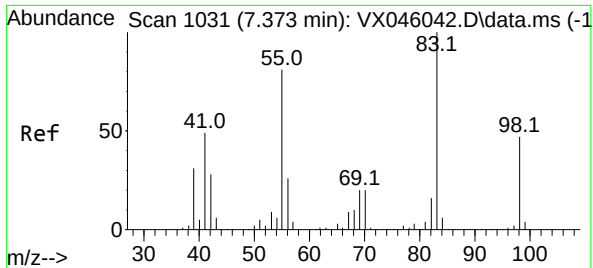
Ion Ratio Lower Upper

117 100

119 94.2 75.2 112.8

121 31.5 24.2 36.4





#39

Methylcyclohexane

Concen: 19.270 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.006 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBS01

Tgt Ion: 83 Resp: 3428

Ion Ratio Lower Upper

83 100

55 79.4 64.7 97.1

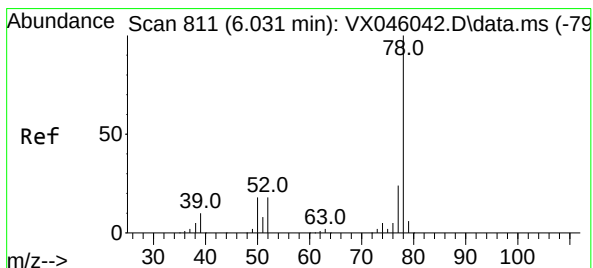
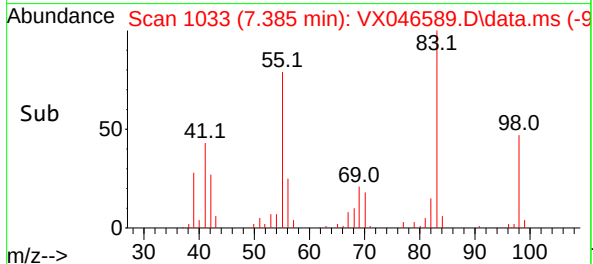
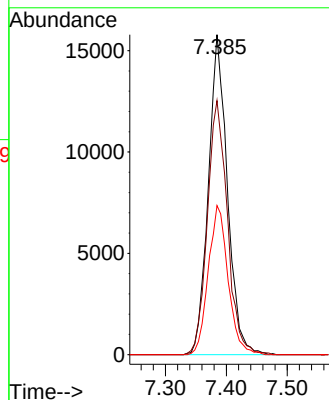
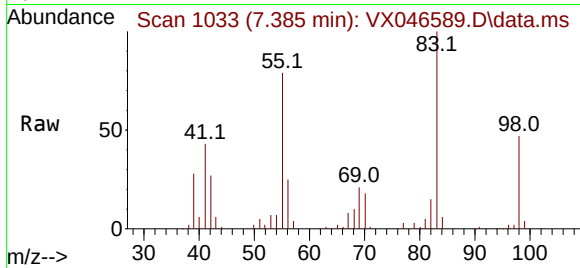
98 46.6 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#40

Benzene

Concen: 20.958 ug/l

RT: 6.050 min Scan# 814

Delta R.T. -0.006 min

Lab File: VX046589.D

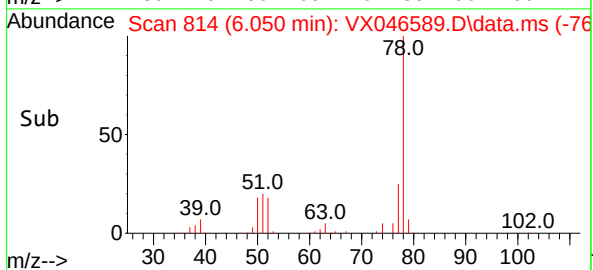
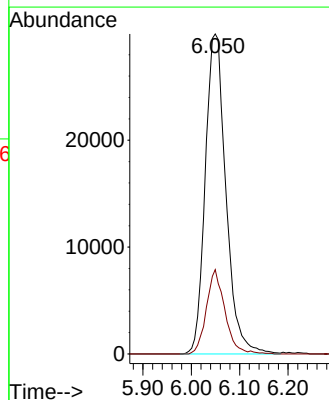
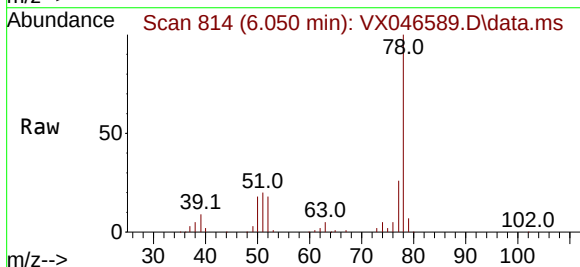
Acq: 10 Jun 2025 10:18

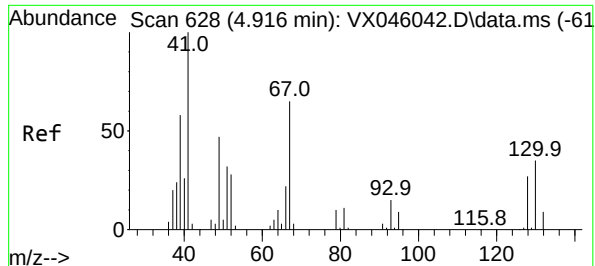
Tgt Ion: 78 Resp: 88942

Ion Ratio Lower Upper

78 100

77 26.3 19.0 28.4





#41

Methacrylonitrile

Concen: 18.209 ug/l

RT: 4.928 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBS01

Tgt Ion: 41 Resp: 1663

Ion Ratio Lower Upper

41 100

39 58.6 47.2 70.8

67 73.8 50.7 76.1

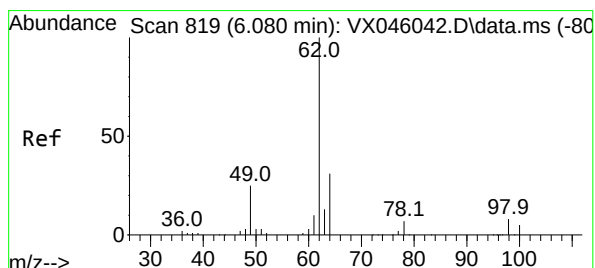
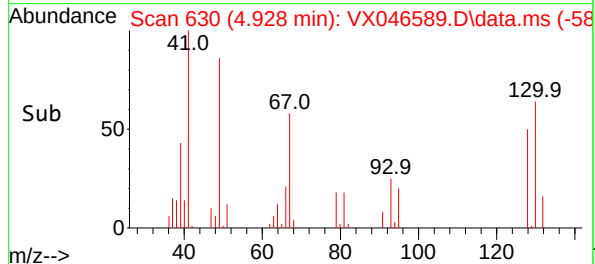
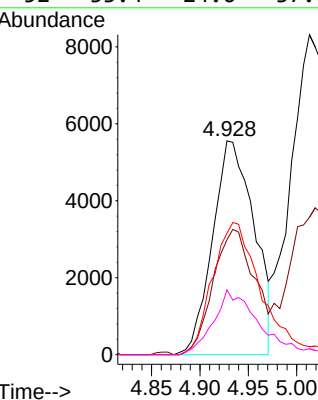
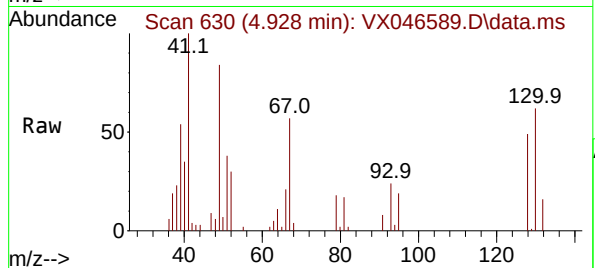
52 33.4 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#42

1,2-Dichloroethane

Concen: 20.810 ug/l

RT: 6.098 min Scan# 822

Delta R.T. 0.000 min

Lab File: VX046589.D

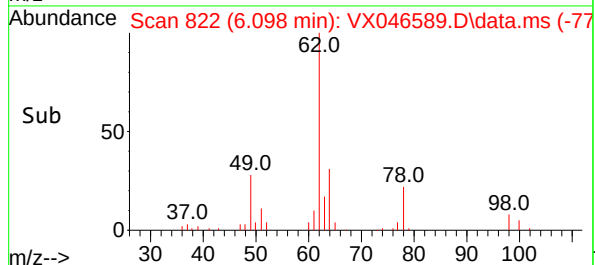
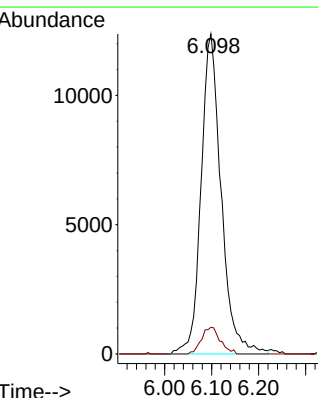
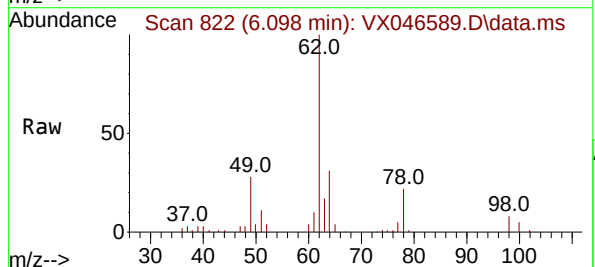
Acq: 10 Jun 2025 10:18

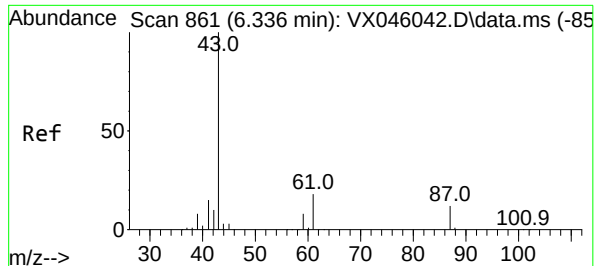
Tgt Ion: 62 Resp: 36740

Ion Ratio Lower Upper

62 100

98 7.8 0.0 15.2





#43

Isopropyl Acetate

Concen: 19.330 ug/l

RT: 6.348 min Scan# 863

Delta R.T. -0.006 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBS01

Tgt Ion: 43 Resp: 49580

Ion Ratio Lower Upper

43 100

61 17.8 14.3 21.5

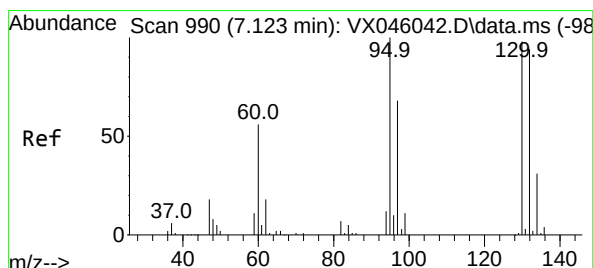
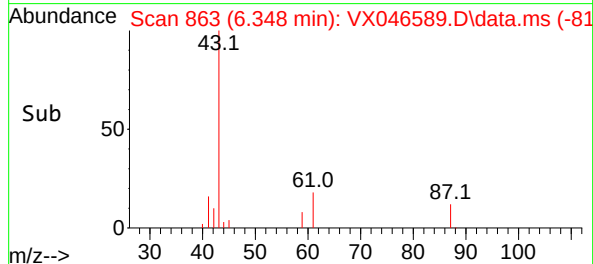
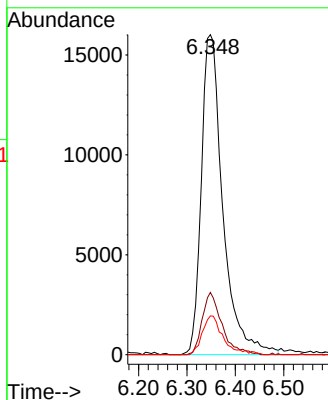
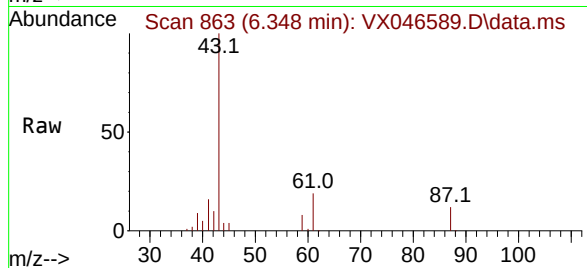
87 11.8 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#44

Trichloroethene

Concen: 20.097 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.006 min

Lab File: VX046589.D

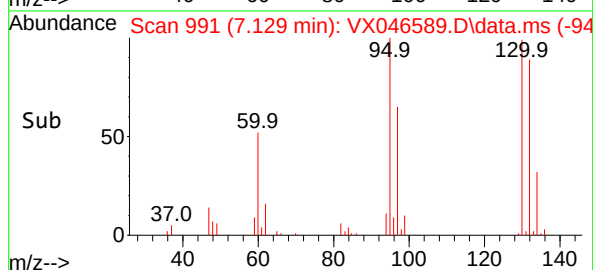
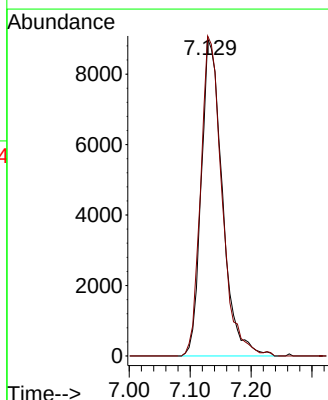
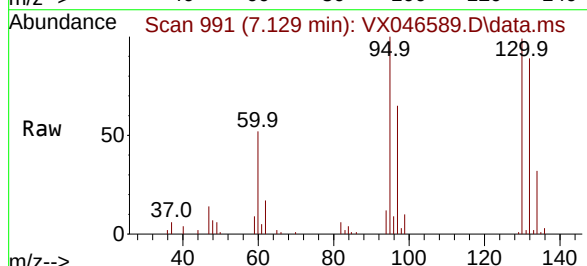
Acq: 10 Jun 2025 10:18

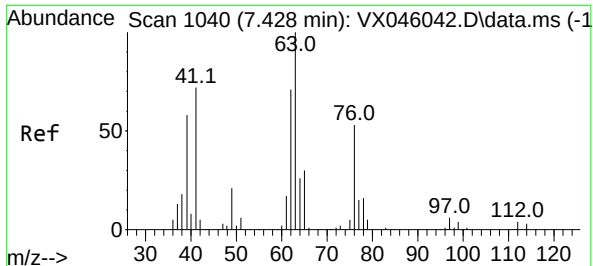
Tgt Ion:130 Resp: 21670

Ion Ratio Lower Upper

130 100

95 100.8 0.0 204.2





#45

1,2-Dichloropropane

Concen: 21.672 ug/l

RT: 7.433 min Scan# 1041

Delta R.T. -0.007 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBS01

Tgt Ion: 63 Resp: 23739

Ion Ratio Lower Upper

63 100

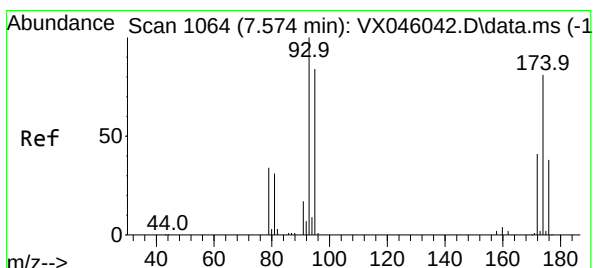
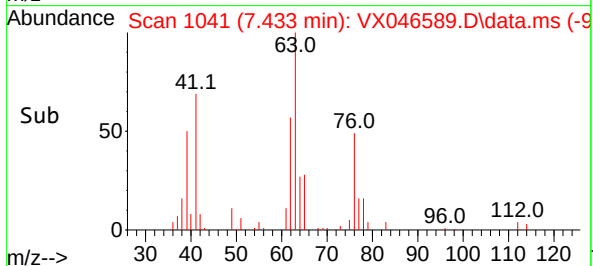
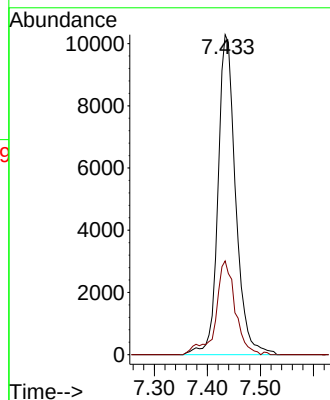
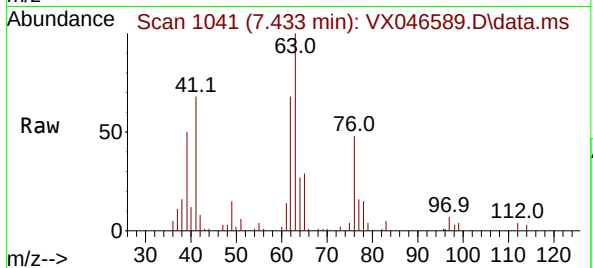
65 29.3 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#46

Dibromomethane

Concen: 20.858 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

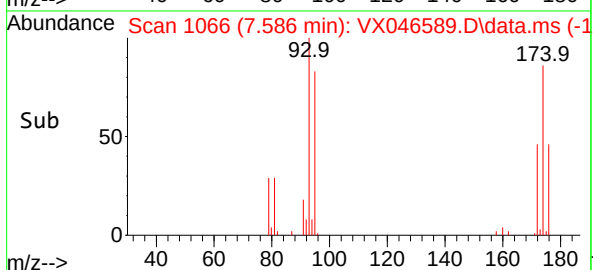
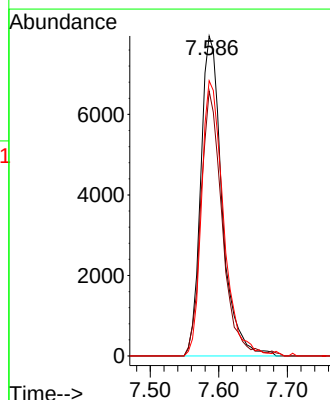
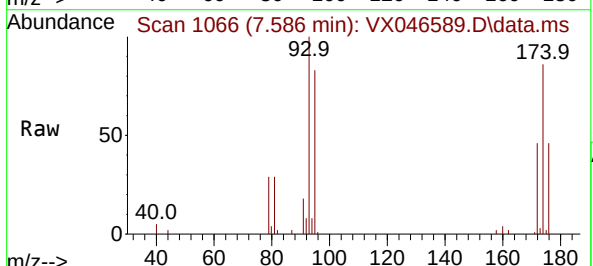
Tgt Ion: 93 Resp: 17188

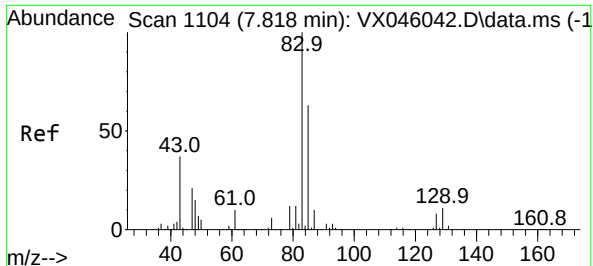
Ion Ratio Lower Upper

93 100

95 82.8 65.6 98.4

174 88.7 68.2 102.2





#47

Bromodichloromethane

Concen: 22.011 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. -0.006 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

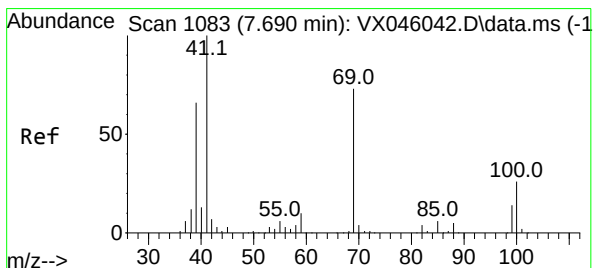
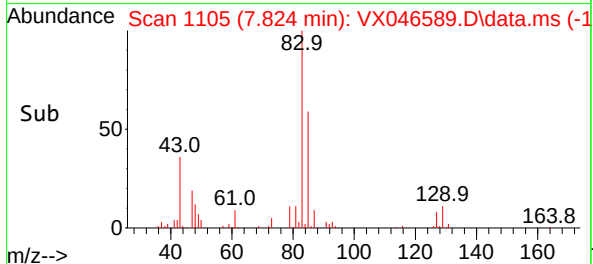
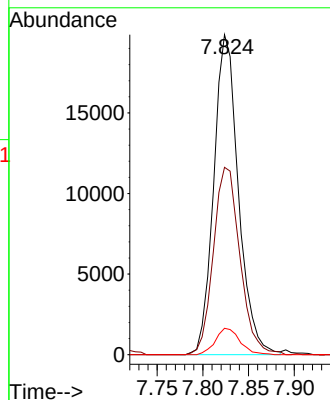
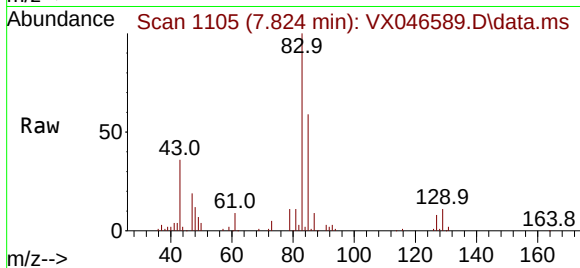
VX0610WBS01

Tgt Ion:	83	Resp:	3729
Ion	Ratio	Lower	Upper
83	100		
85	58.5	50.5	75.7
127	8.2	6.5	9.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#48

Methyl methacrylate

Concen: 19.079 ug/l

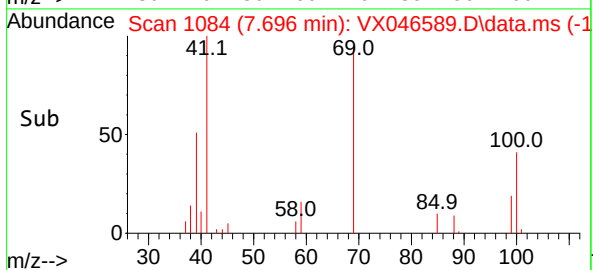
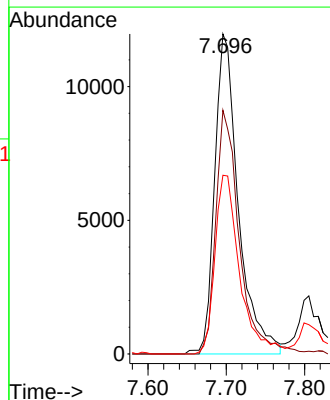
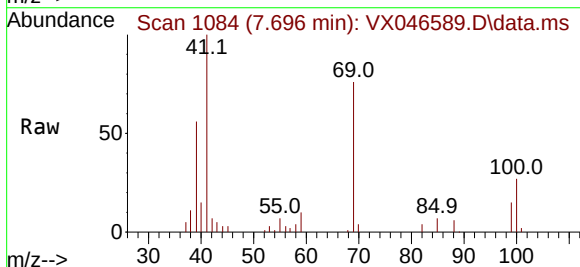
RT: 7.696 min Scan# 1084

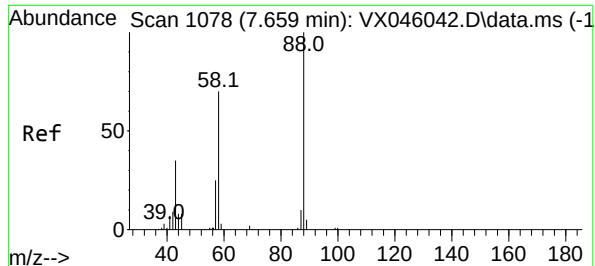
Delta R.T. -0.006 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Tgt Ion:	41	Resp:	25179
Ion	Ratio	Lower	Upper
41	100		
69	75.5	58.5	87.7
39	58.4	51.7	77.5





#49

1,4-Dioxane

Concen: 366.785 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. -0.012 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

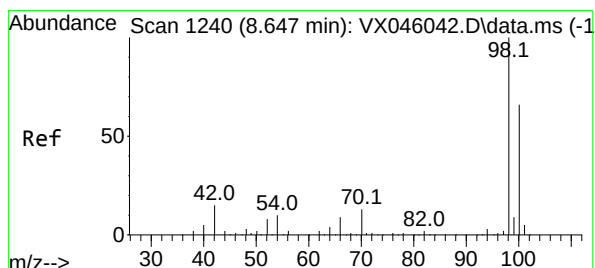
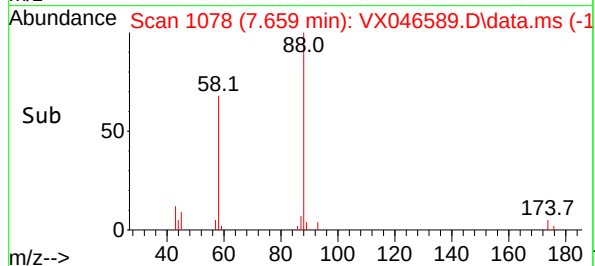
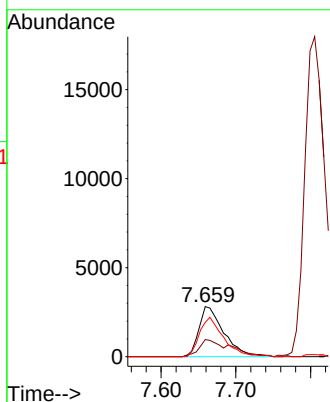
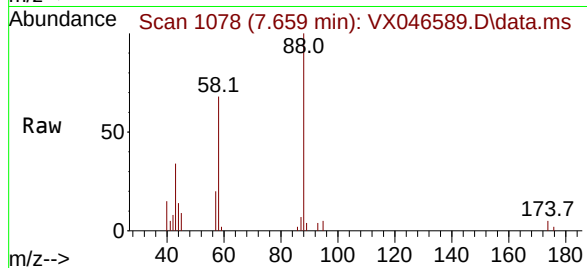
VX0610WBS01

Tgt Ion: 88 Resp: 6473
Ion Ratio Lower Upper
88 100
43 27.8 33.4 50.2
58 76.1 58.6 88.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#50

Toluene-d8

Concen: 51.507 ug/l

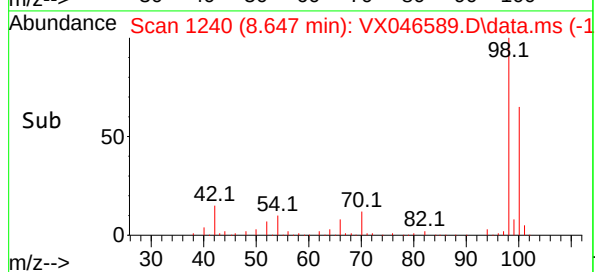
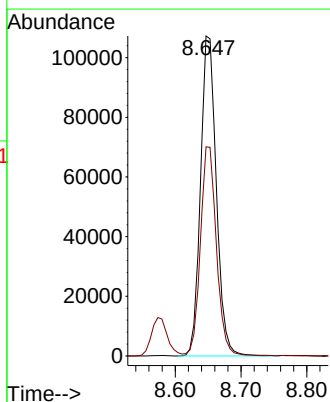
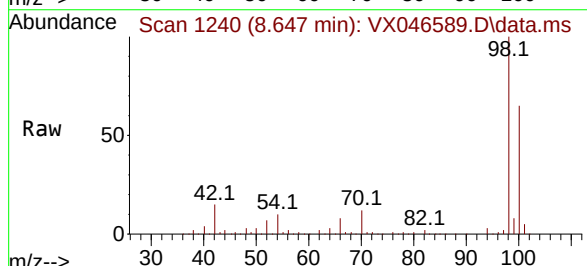
RT: 8.647 min Scan# 1240

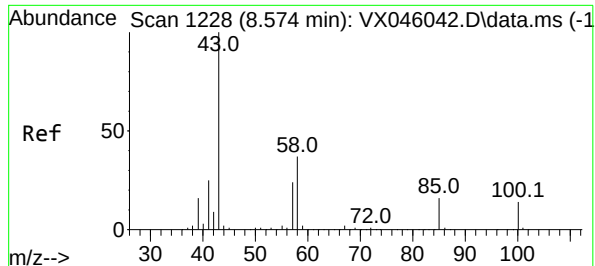
Delta R.T. -0.006 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Tgt Ion: 98 Resp: 179208
Ion Ratio Lower Upper
98 100
100 66.2 53.5 80.3





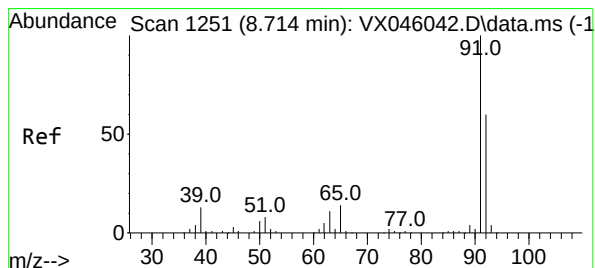
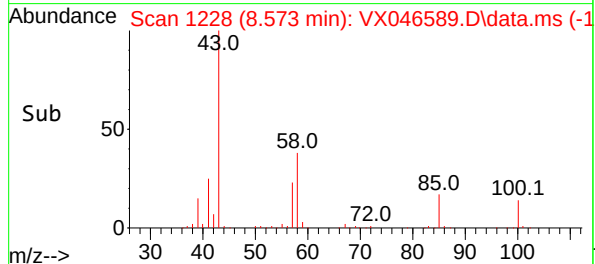
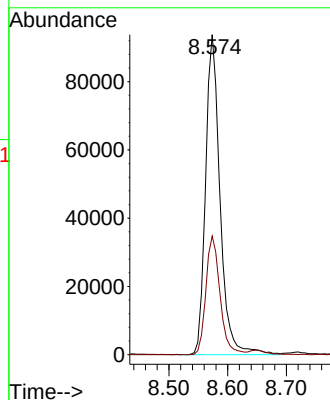
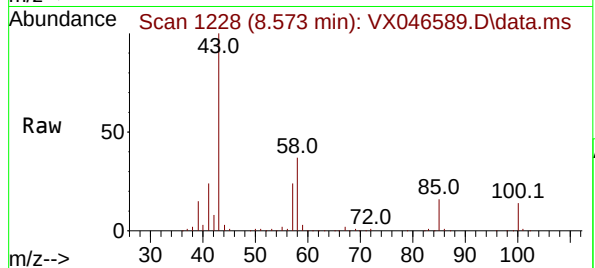
#51
4-Methyl-2-Pentanone
Concen: 98.684 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01

Tgt Ion: 43 Resp: 16084
Ion Ratio Lower Upper
43 100
58 36.1 28.9 43.3

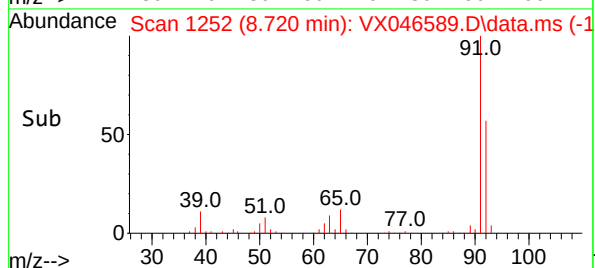
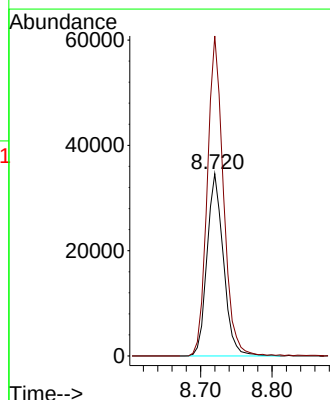
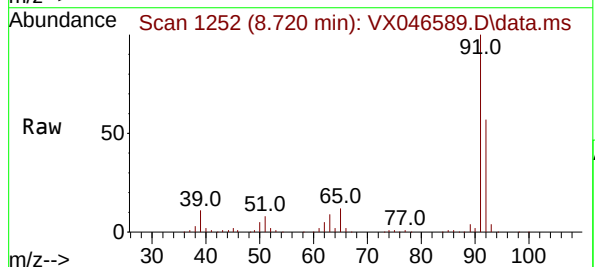
Manual Integrations
APPROVED

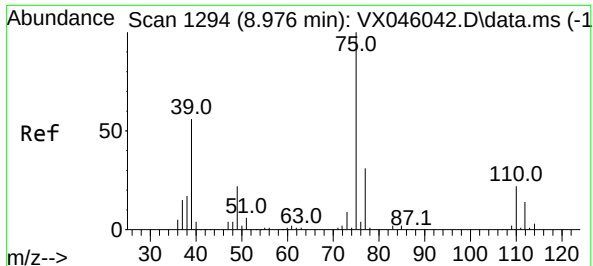
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#52
Toluene
Concen: 21.179 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

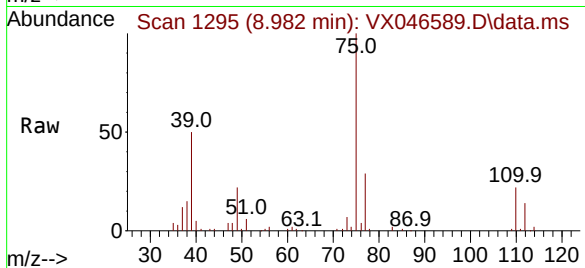
Tgt Ion: 92 Resp: 55219
Ion Ratio Lower Upper
92 100
91 172.7 136.6 205.0





#53
t-1,3-Dichloropropene
Concen: 20.862 ug/l
RT: 8.982 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

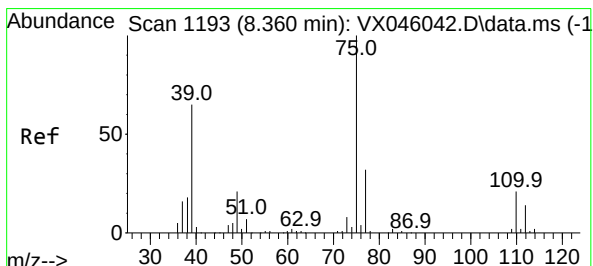
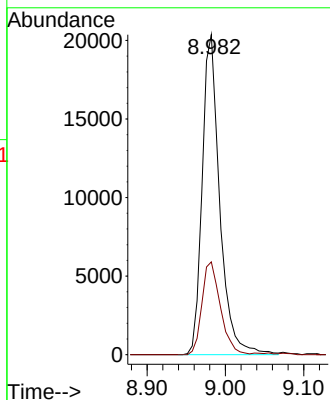
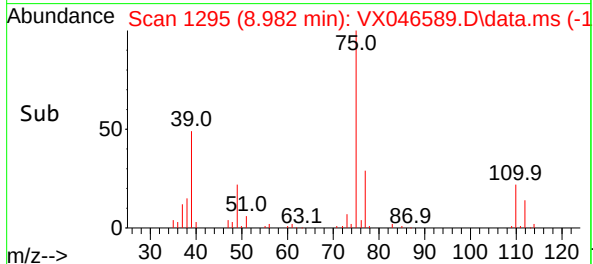
Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01



Tgt Ion: 75 Resp: 31694
Ion Ratio Lower Upper
75 100
77 29.0 25.0 37.6

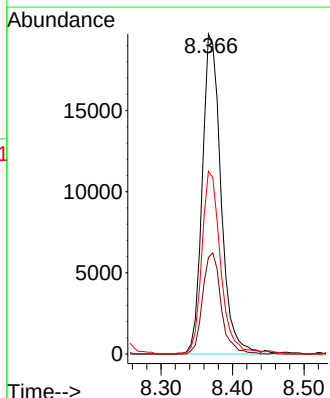
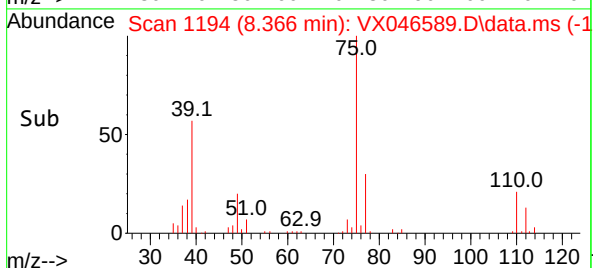
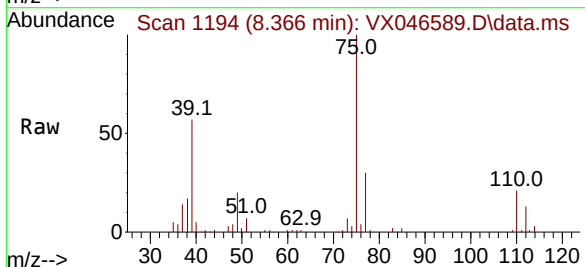
Manual Integrations
APPROVED

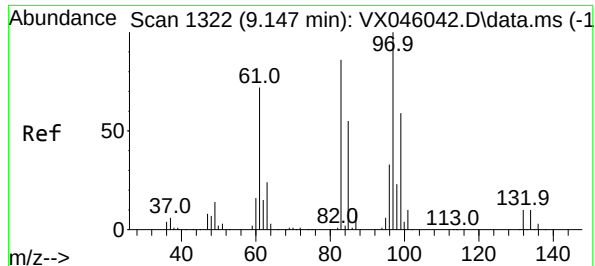
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#54
cis-1,3-Dichloropropene
Concen: 21.180 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

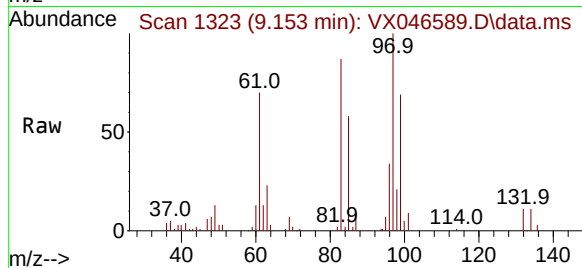
Tgt Ion: 75 Resp: 35775
Ion Ratio Lower Upper
75 100
77 30.2 25.4 38.0
39 56.8 52.2 78.4





#55
1,1,2-Trichloroethane
Concen: 21.553 ug/l
RT: 9.153 min Scan# 1322
Delta R.T. -0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

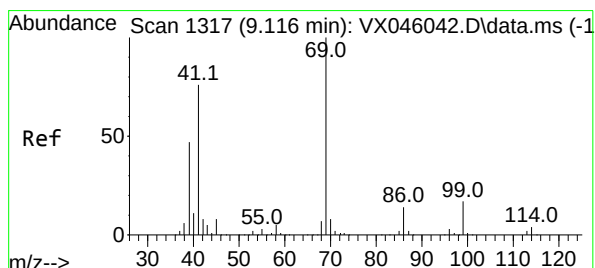
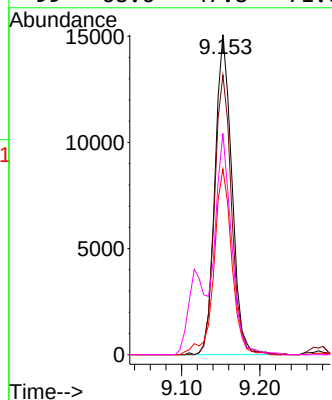
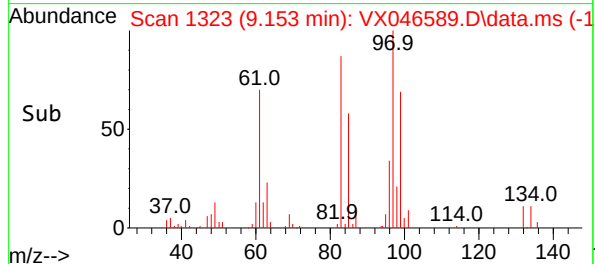
Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01



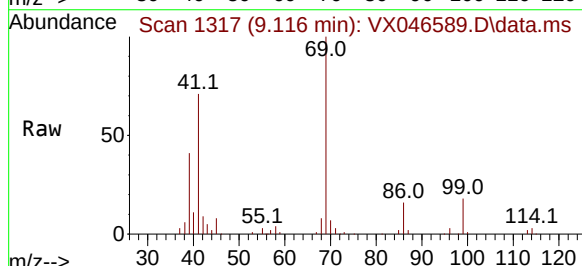
Tgt Ion: 97 Resp: 2255
Ion Ratio Lower Upper
97 100
83 87.4 69.0 103.6
85 58.1 44.3 66.5
99 68.6 47.8 71.6

Manual Integrations
APPROVED

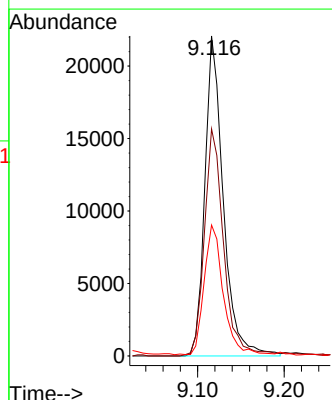
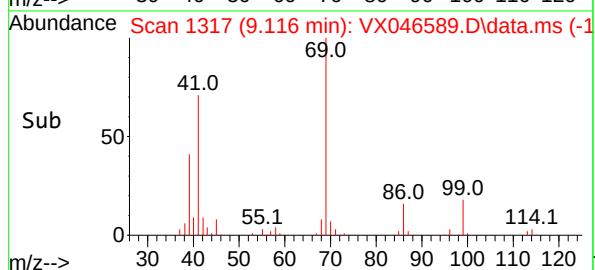
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

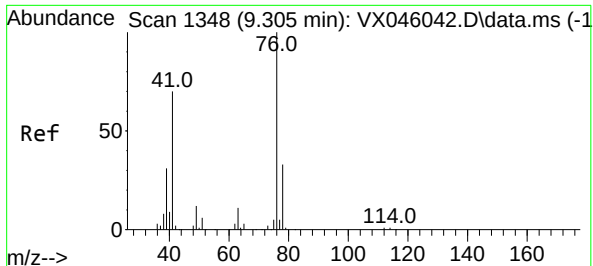


#56
Ethyl methacrylate
Concen: 20.274 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18



Tgt Ion: 69 Resp: 32654
Ion Ratio Lower Upper
69 100
41 74.2 60.8 91.2
39 41.6 39.0 58.6





#57

1,3-Dichloropropane

Concen: 21.129 ug/l

RT: 9.311 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBS01

Tgt Ion: 76 Resp: 3908

Ion Ratio Lower Upper

76 100

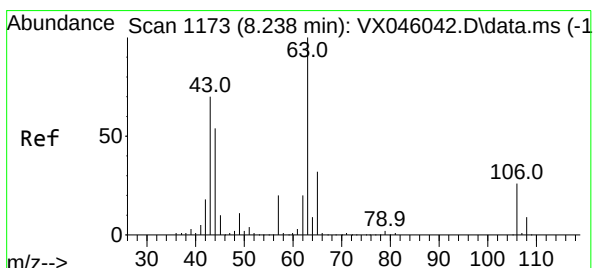
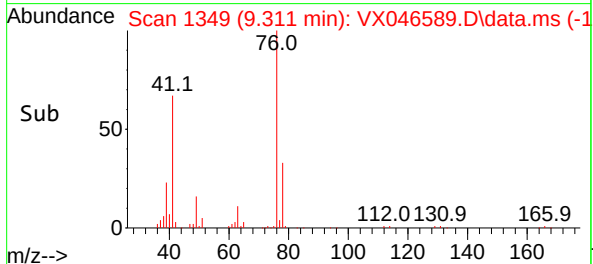
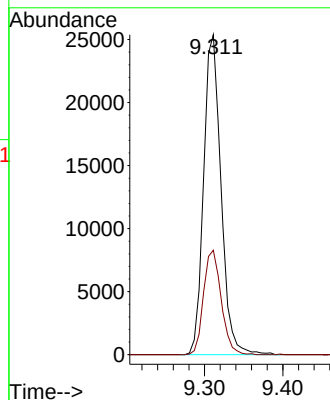
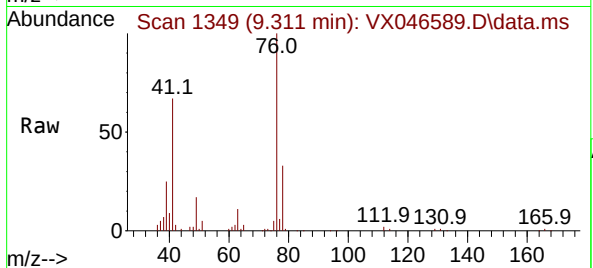
78 33.2 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#58

2-Chloroethyl Vinyl ether

Concen: 93.023 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046589.D

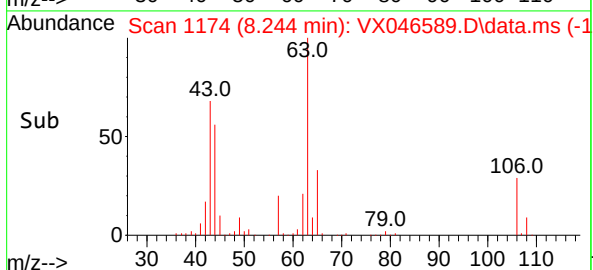
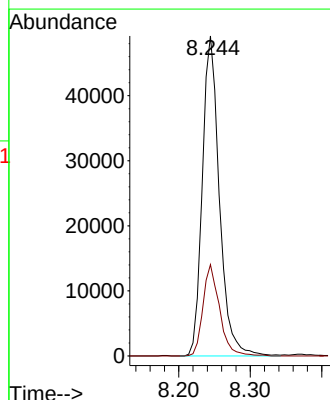
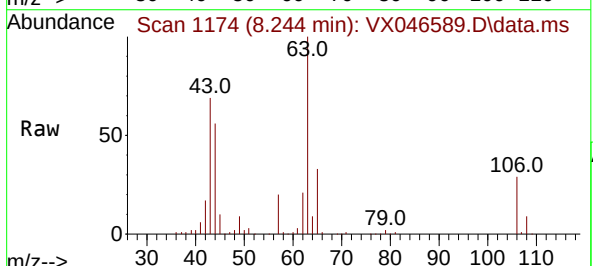
Acq: 10 Jun 2025 10:18

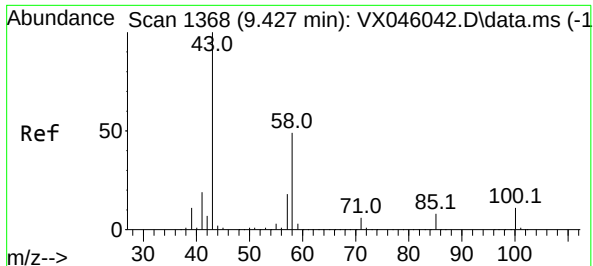
Tgt Ion: 63 Resp: 81610

Ion Ratio Lower Upper

63 100

106 27.8 21.5 32.3





#59

2-Hexanone

Concen: 94.963 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBS01

Tgt Ion: 43 Resp: 111008

Ion Ratio Lower Upper

43 100

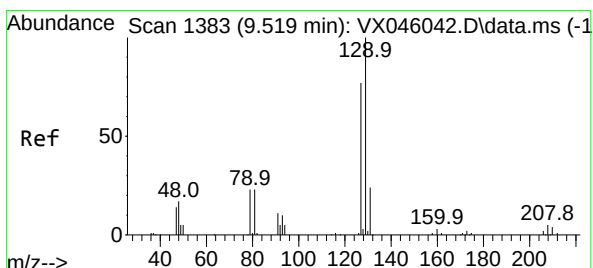
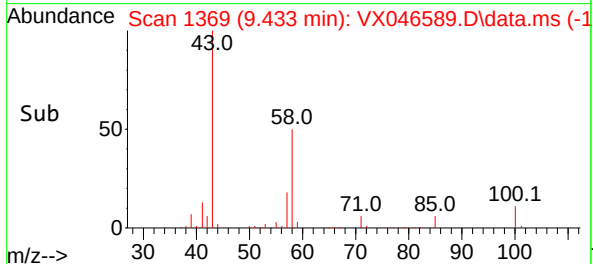
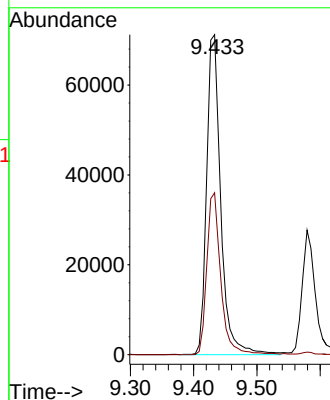
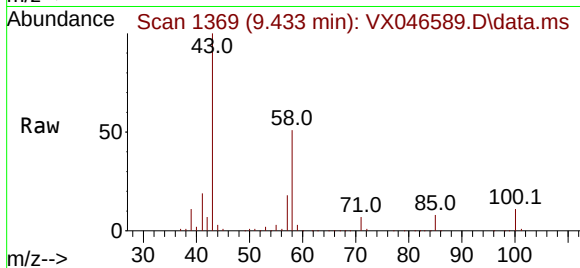
58 50.0 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#60

Dibromochloromethane

Concen: 22.577 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.007 min

Lab File: VX046589.D

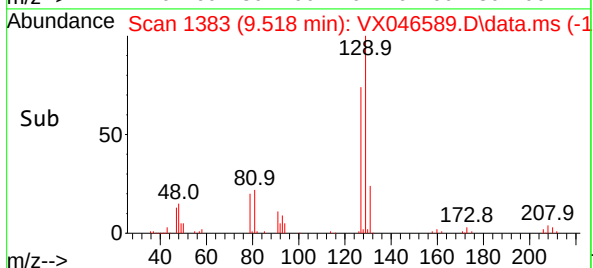
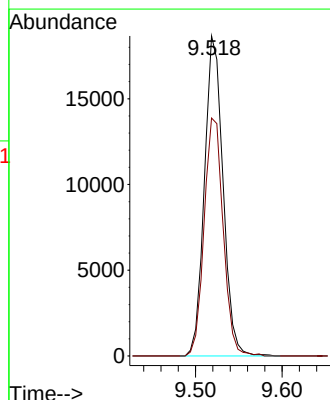
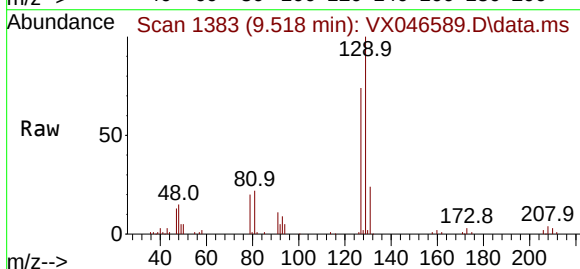
Acq: 10 Jun 2025 10:18

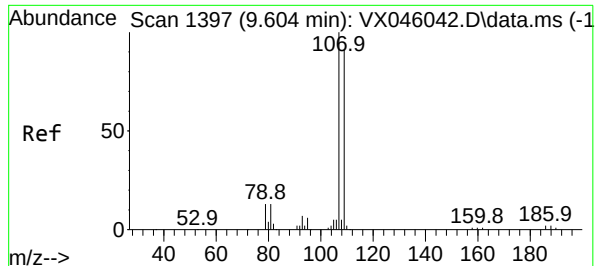
Tgt Ion:129 Resp: 27795

Ion Ratio Lower Upper

129 100

127 76.3 39.3 117.8





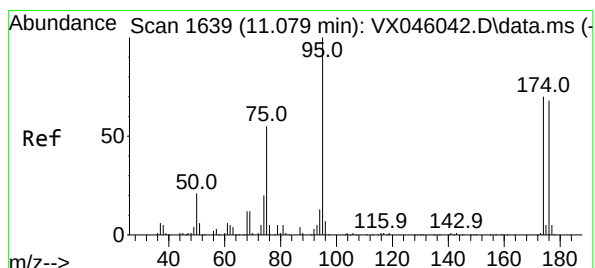
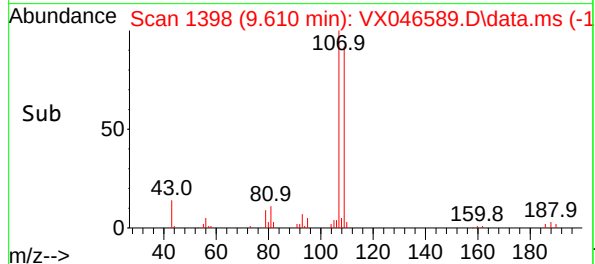
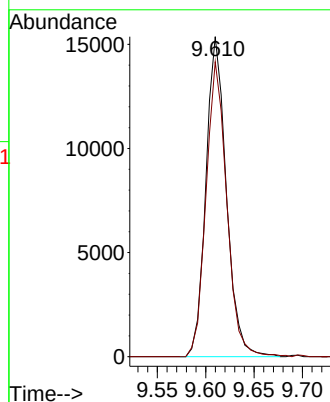
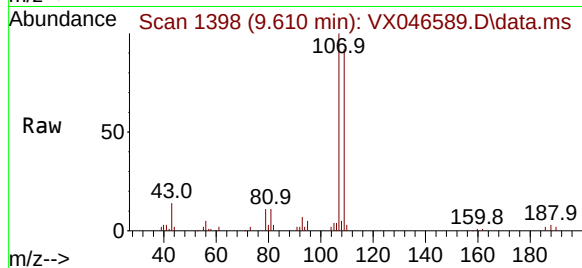
#61
1,2-Dibromoethane
Concen: 20.739 ug/l
RT: 9.610 min Scan# 1397
Delta R.T. -0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01

Tgt Ion:107 Resp: 22620
Ion Ratio Lower Upper
107 100
109 93.5 73.3 109.9

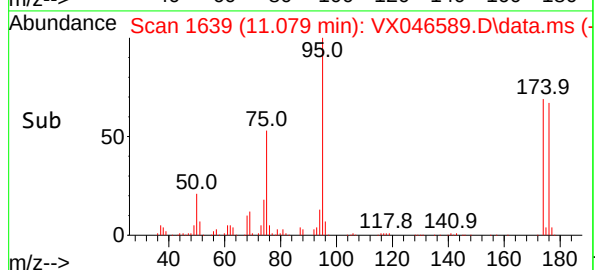
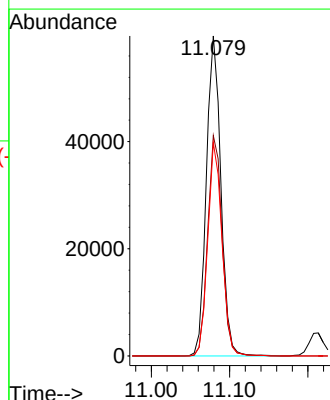
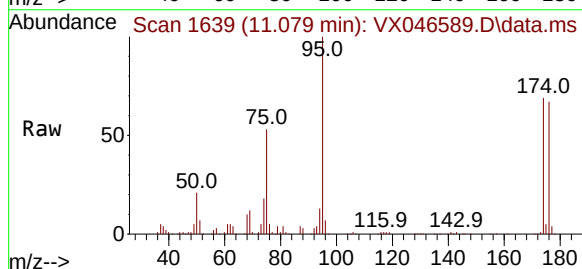
Manual Integrations
APPROVED

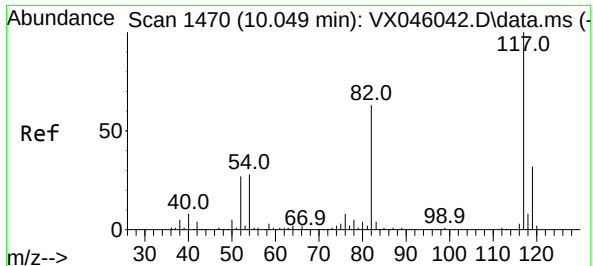
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#62
4-Bromofluorobenzene
Concen: 53.104 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

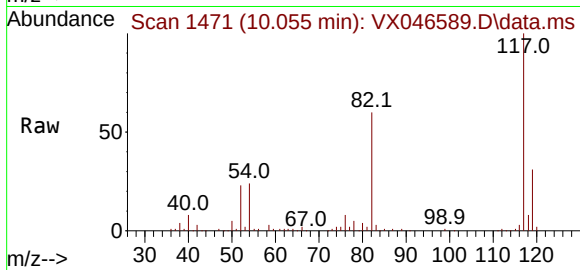
Tgt Ion: 95 Resp: 76446
Ion Ratio Lower Upper
95 100
174 68.6 0.0 135.8
176 65.5 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

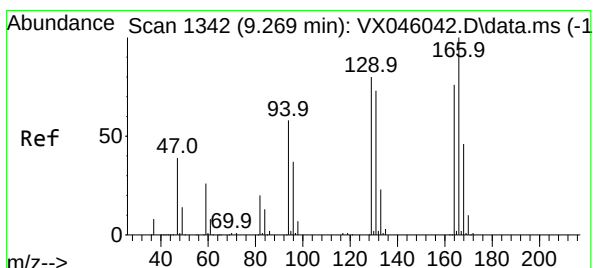
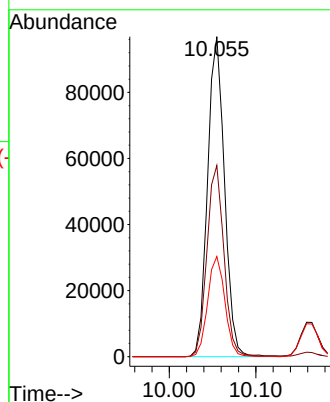
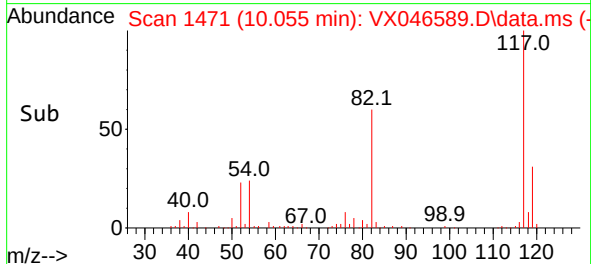
Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01



Tgt Ion:117 Resp: 131420
Ion Ratio Lower Upper
117 100
82 59.7 50.6 76.0
119 31.3 25.8 38.6

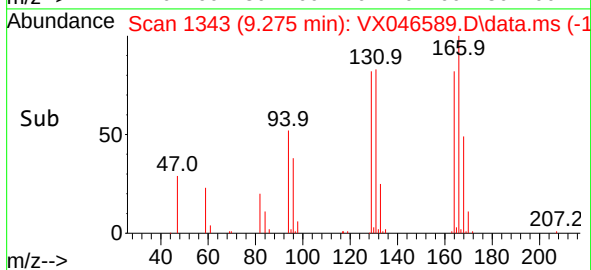
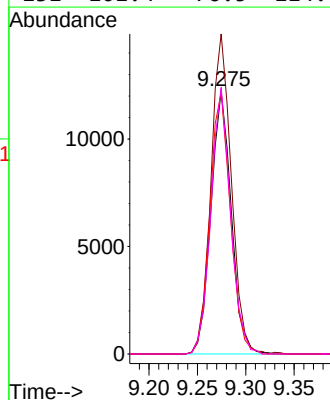
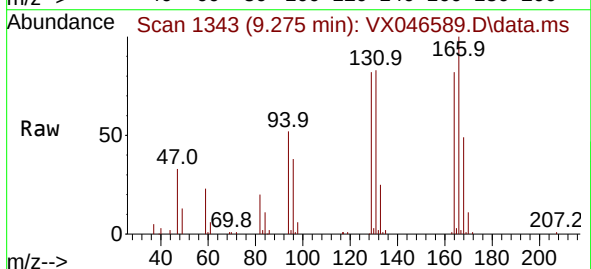
Manual Integrations
APPROVED

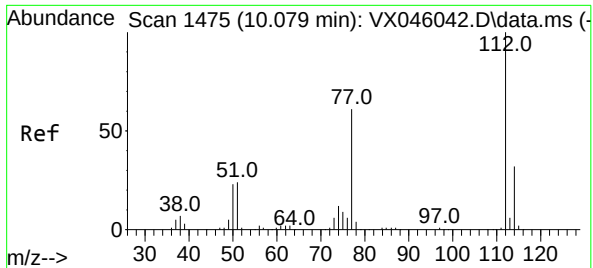
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#64
Tetrachloroethene
Concen: 20.312 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Tgt Ion:164 Resp: 17851
Ion Ratio Lower Upper
164 100
166 121.8 105.0 157.6
129 99.4 83.5 125.3
131 101.4 76.5 114.7





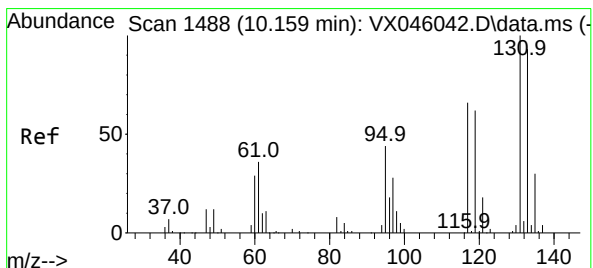
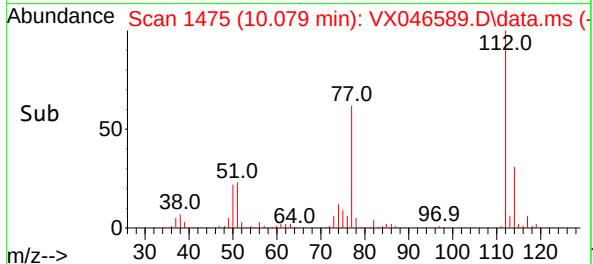
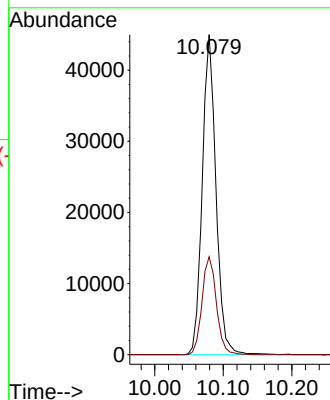
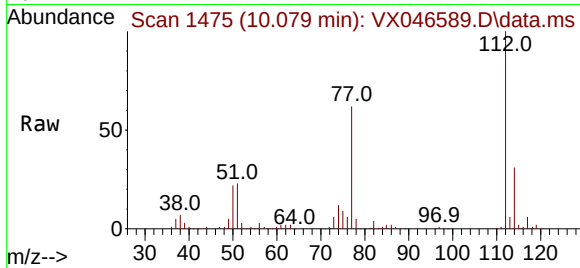
#65
Chlorobenzene
Concen: 20.253 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01

Tgt Ion:112 Resp: 6260
Ion Ratio Lower Upper
112 100
114 30.6 25.4 38.2

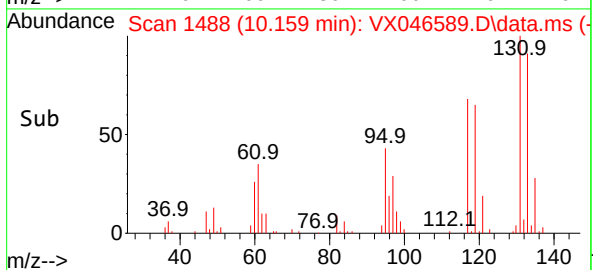
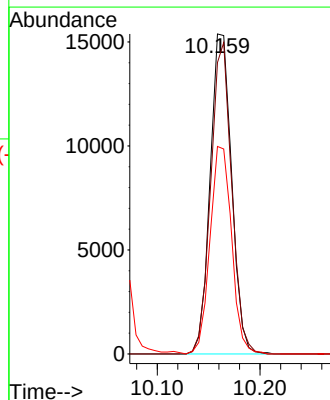
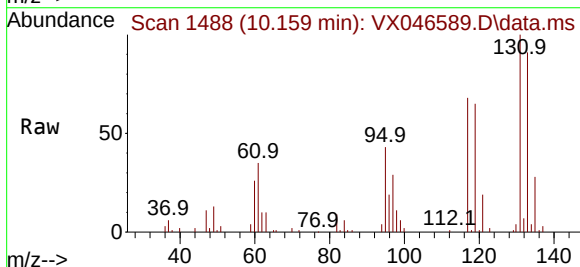
Manual Integrations
APPROVED

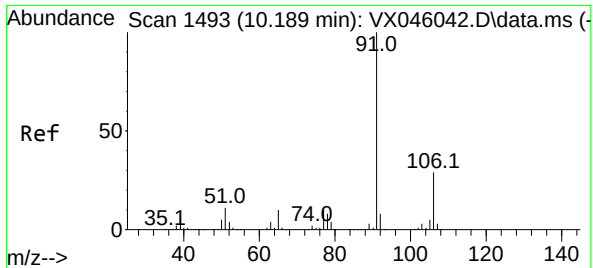
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 21.351 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.006 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Tgt Ion:131 Resp: 22301
Ion Ratio Lower Upper
131 100
133 95.1 47.3 141.9
119 65.2 31.6 95.0





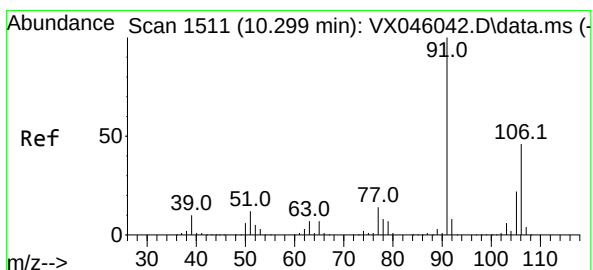
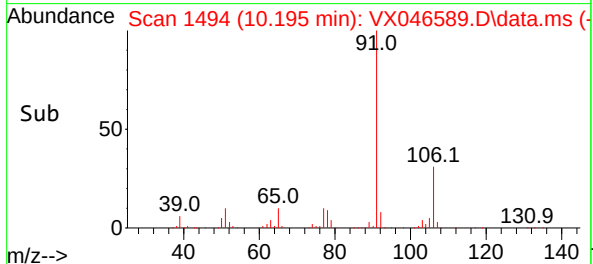
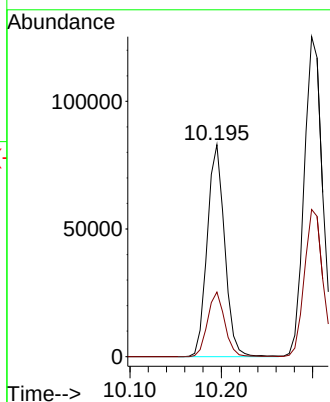
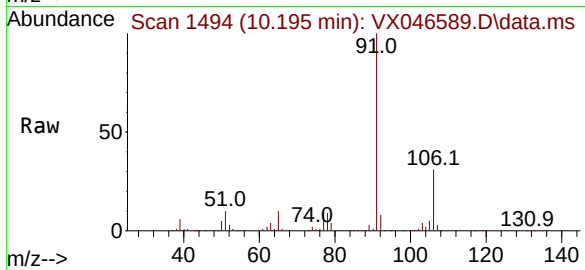
#67
Ethyl Benzene
Concen: 20.334 ug/l
RT: 10.195 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01

Tgt Ion: 91 Resp: 109725
Ion Ratio Lower Upper
91 100
106 30.5 23.4 35.2

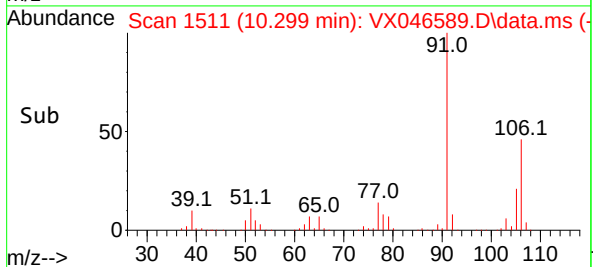
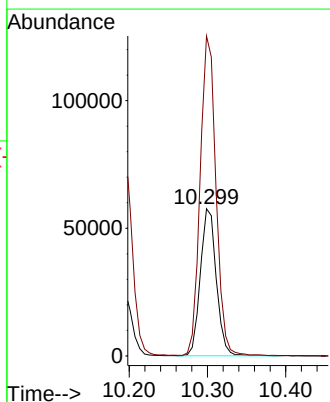
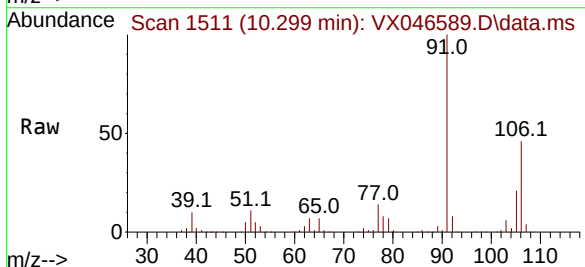
Manual Integrations
APPROVED

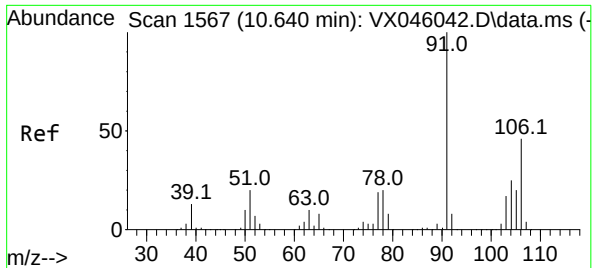
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#68
m/p-Xylenes
Concen: 41.649 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Tgt Ion:106 Resp: 81525
Ion Ratio Lower Upper
106 100
91 217.0 171.2 256.8





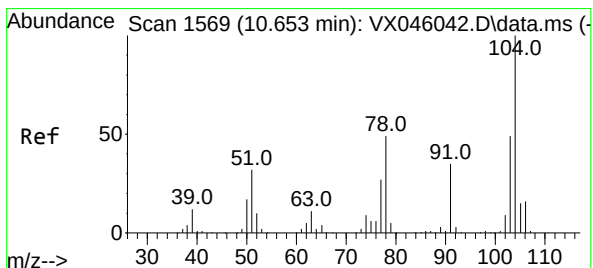
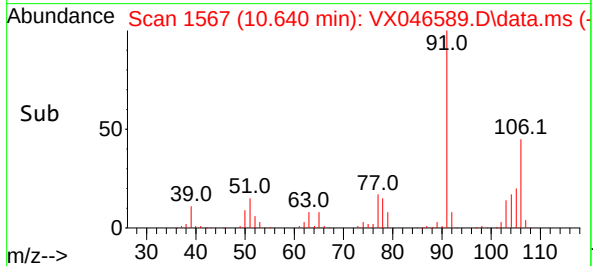
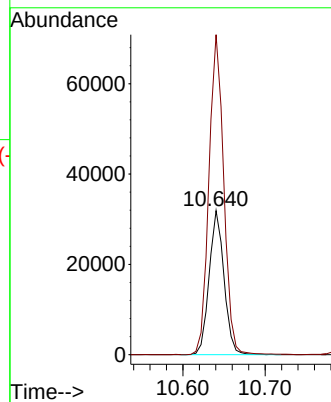
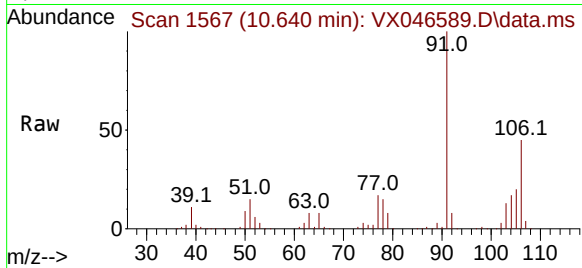
#69
o-Xylene
Concen: 21.137 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01

Tgt Ion:106 Resp: 40019
Ion Ratio Lower Upper
106 100
91 222.0 112.7 338.1

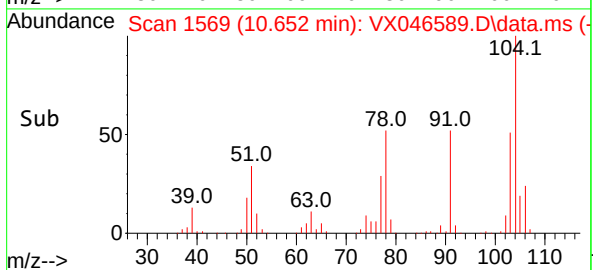
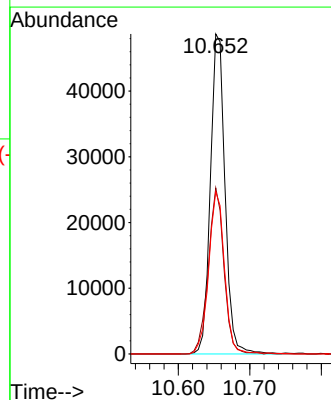
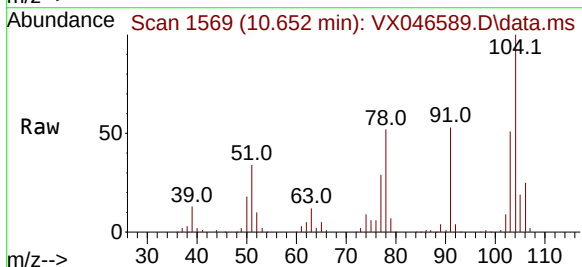
Manual Integrations
APPROVED

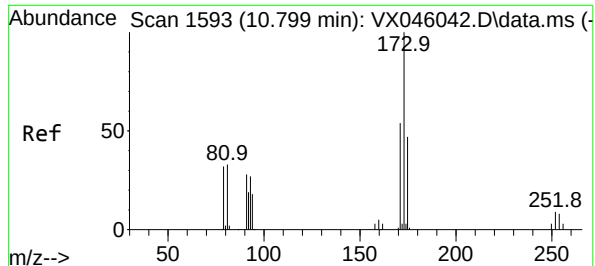
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#70
Styrene
Concen: 21.393 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.006 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

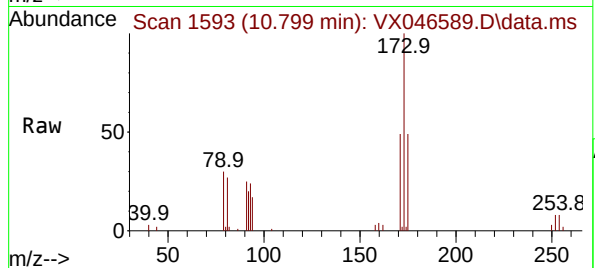
Tgt Ion:104 Resp: 69335
Ion Ratio Lower Upper
104 100
78 55.5 45.7 68.5
103 54.9 43.7 65.5





#71
Bromoform
Concen: 21.200 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

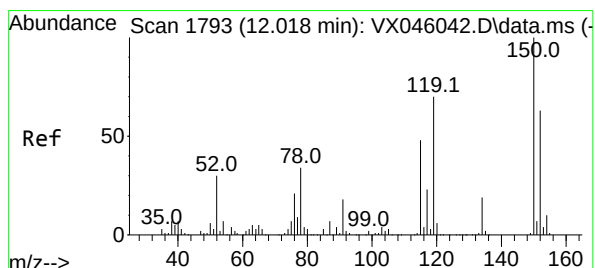
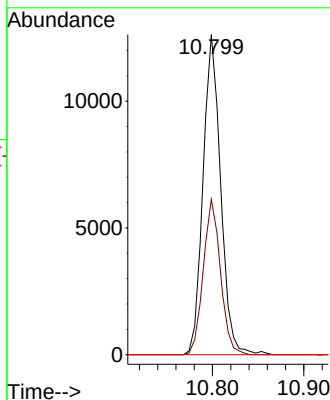
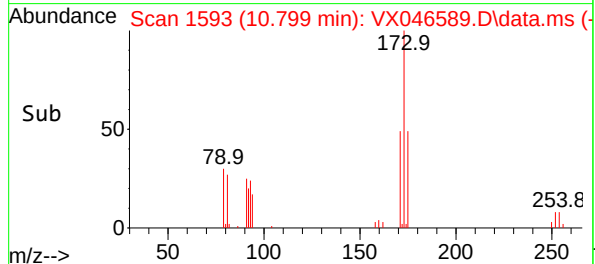
Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01



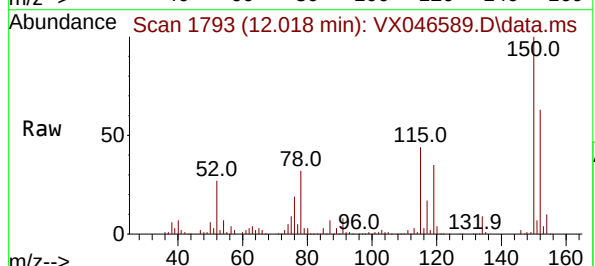
Tgt Ion:173 Resp: 16884
Ion Ratio Lower Upper
173 100
175 47.3 23.4 70.0
254 0.0 0.0 0.0

Manual Integrations
APPROVED

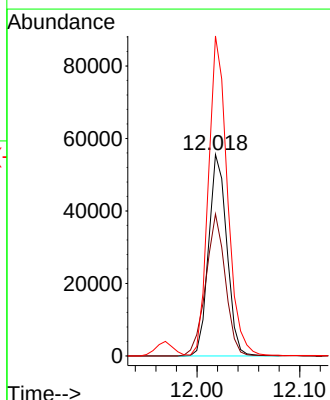
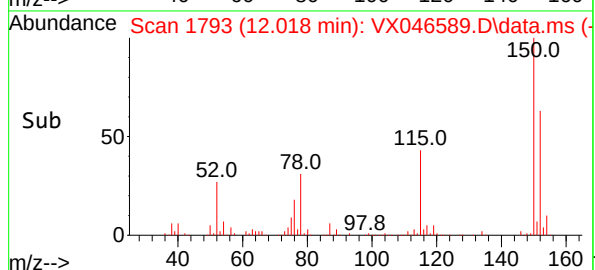
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

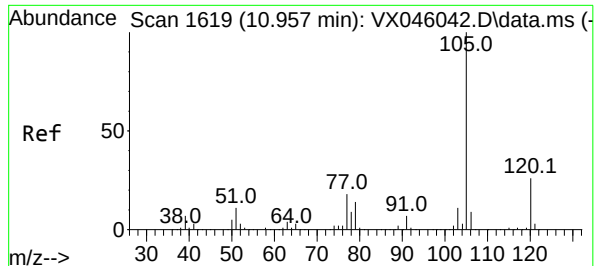


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18



Tgt Ion:152 Resp: 68222
Ion Ratio Lower Upper
152 100
115 76.0 46.9 140.7
150 165.3 0.0 351.0





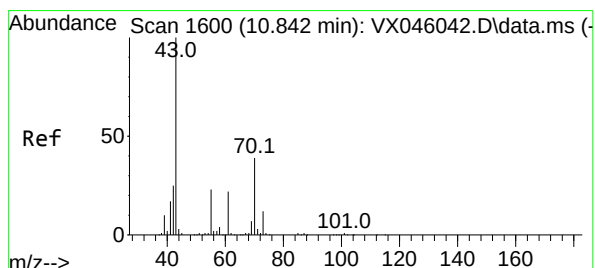
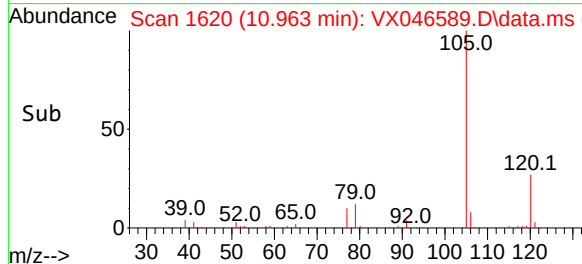
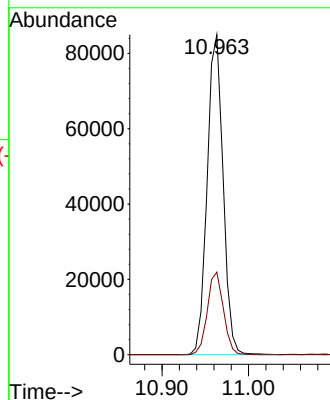
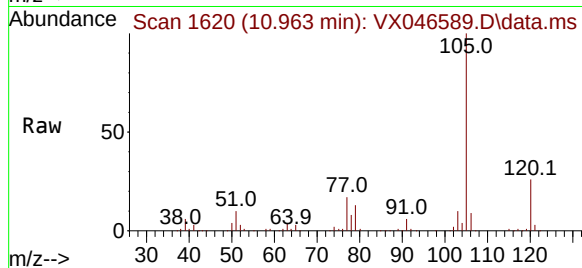
#73
Isopropylbenzene
Concen: 20.212 ug/l
RT: 10.963 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01

Tgt Ion:105 Resp: 108394
Ion Ratio Lower Upper
105 100
120 26.1 12.8 38.4

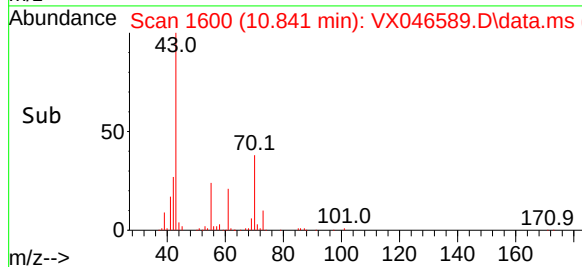
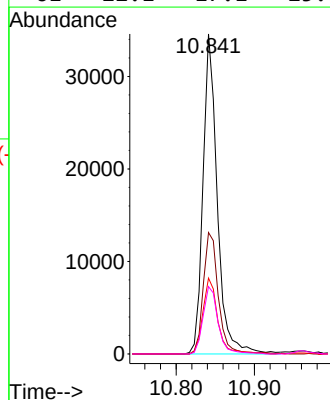
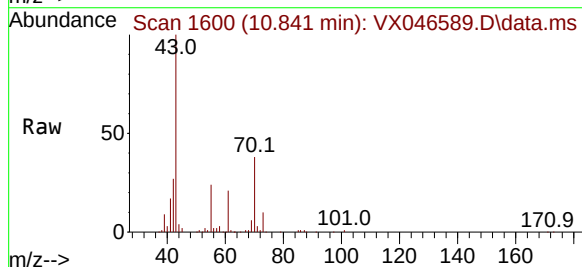
Manual Integrations
APPROVED

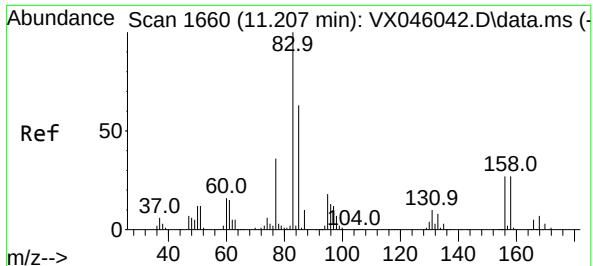
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#74
N-ethyl acetate
Concen: 18.549 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Tgt Ion: 43 Resp: 43808
Ion Ratio Lower Upper
43 100
70 40.2 30.9 46.3
55 24.6 18.7 28.1
61 22.1 17.1 25.7





#75

1,1,2,2-Tetrachloroethane

Concen: 19.876 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. 0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

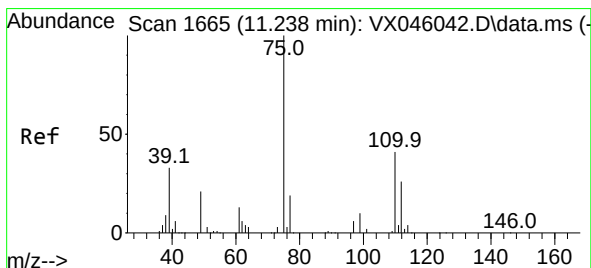
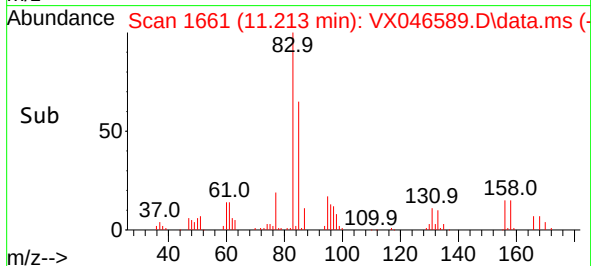
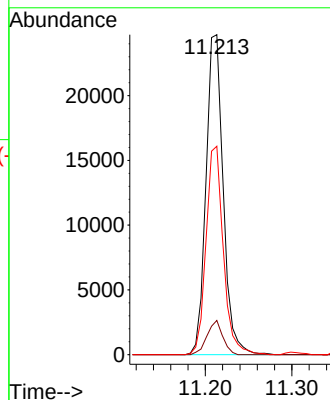
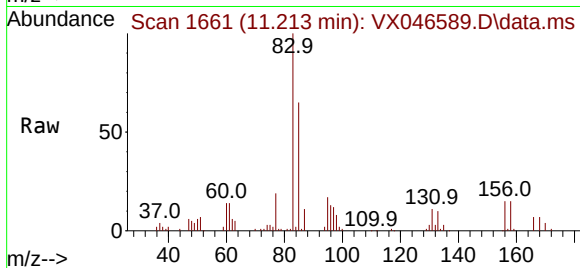
VX0610WBS01

Tgt Ion:	83	Resp:	34119
Ion Ratio	Lower	Upper	
83	100		
131	9.8	5.0	14.9
85	65.4	31.9	95.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#76

1,2,3-Trichloropropane

Concen: 18.813 ug/l m

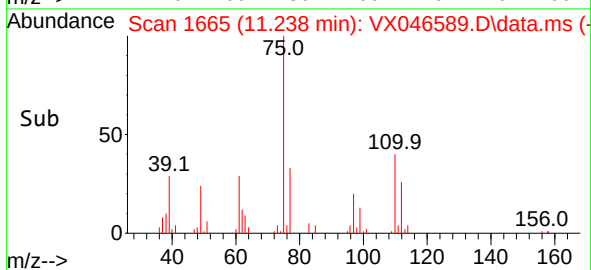
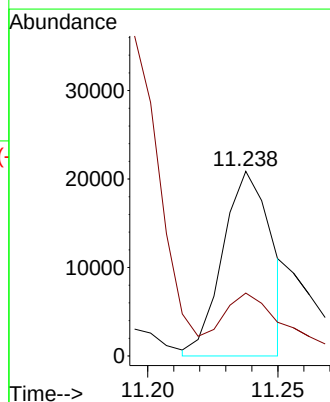
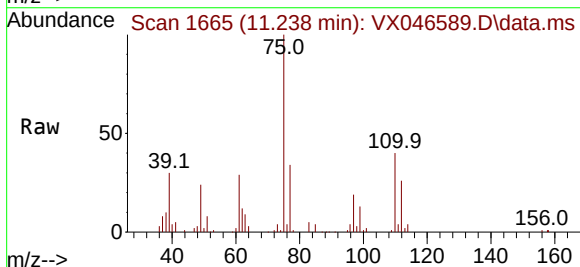
RT: 11.238 min Scan# 1665

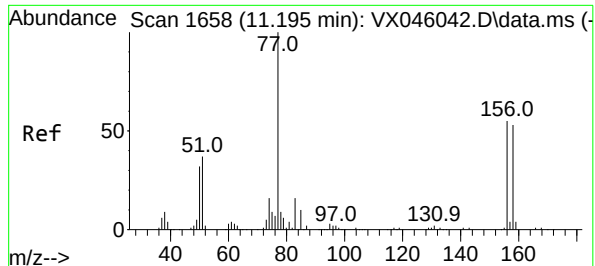
Delta R.T. -0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Tgt Ion:	75	Resp:	27186
Ion Ratio	Lower	Upper	
75	100		
77	44.4	20.5	61.5





#77

Bromobenzene

Concen: 20.916 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

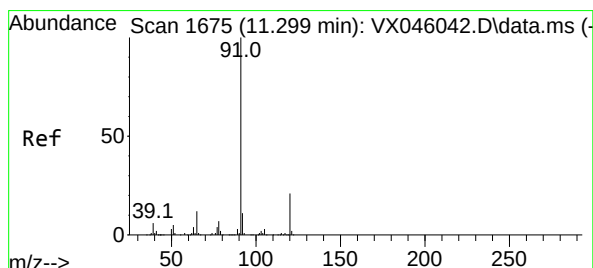
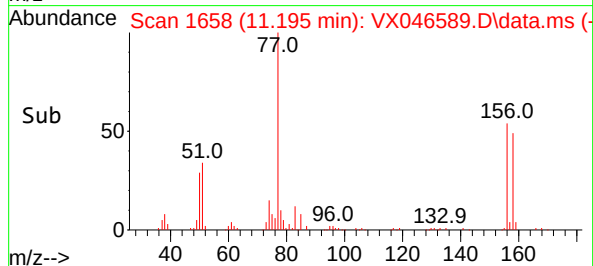
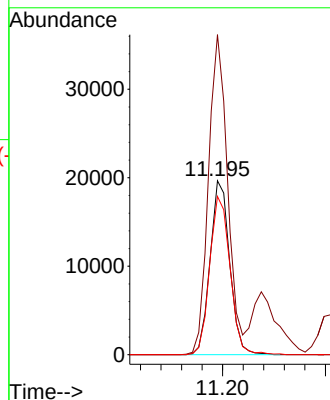
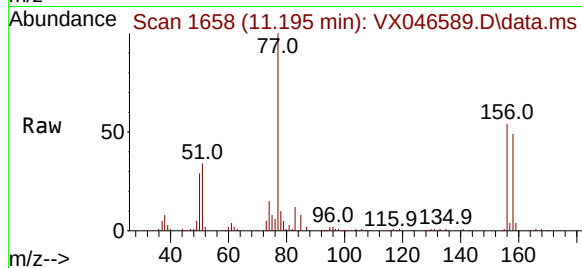
VX0610WBS01

Tgt Ion:	156	Resp:	26030
Ion Ratio	Lower	Upper	
156	100		
77	179.1	92.8	278.3
158	94.5	48.8	146.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#78

n-propylbenzene

Concen: 20.011 ug/l

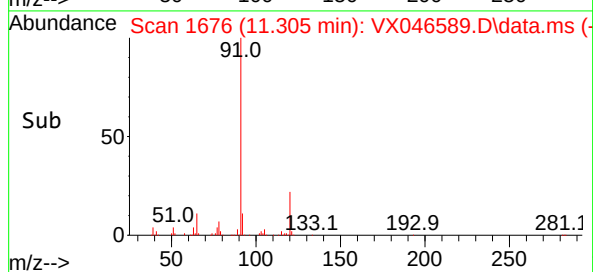
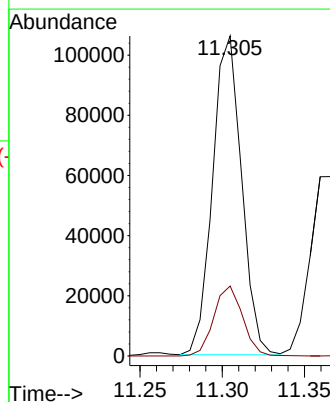
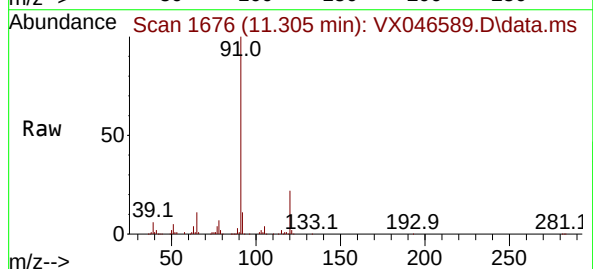
RT: 11.305 min Scan# 1676

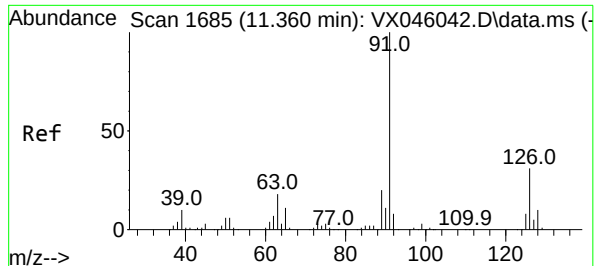
Delta R.T. -0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Tgt Ion:	91	Resp:	129891
Ion Ratio	Lower	Upper	
91	100		
120	21.8	10.8	32.4





#79

2-Chlorotoluene

Concen: 19.991 ug/l

RT: 11.366 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBS01

Tgt Ion: 91 Resp: 78249

Ion Ratio Lower Upper

91 100

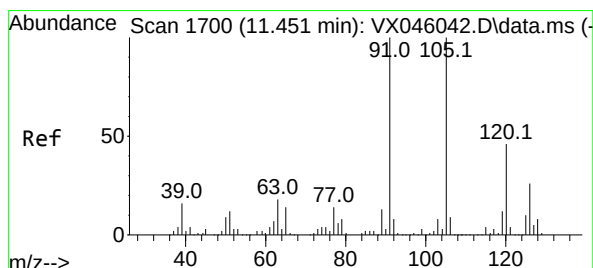
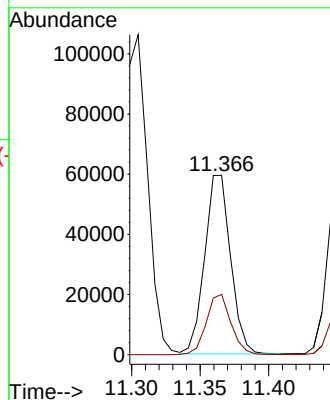
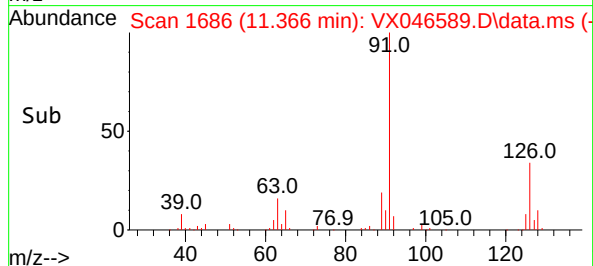
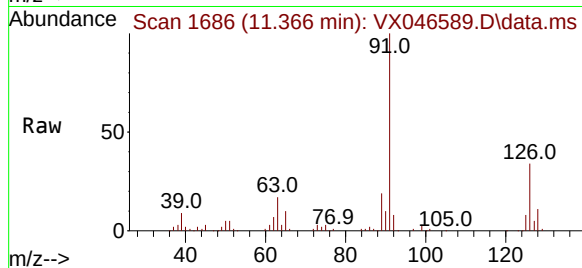
126 32.1 15.6 46.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#80

1,3,5-Trimethylbenzene

Concen: 20.520 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046589.D

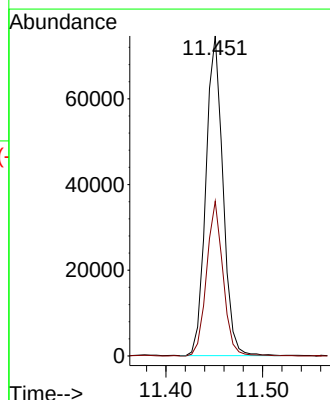
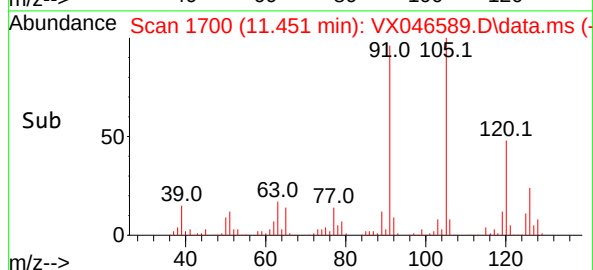
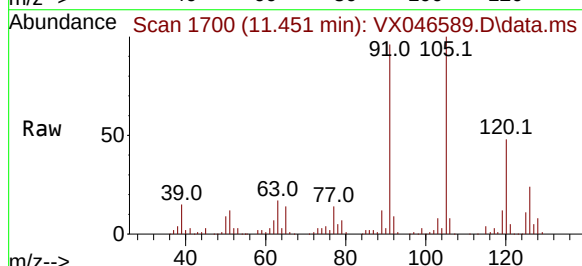
Acq: 10 Jun 2025 10:18

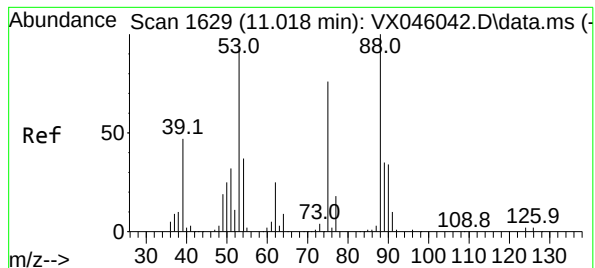
Tgt Ion:105 Resp: 91704

Ion Ratio Lower Upper

105 100

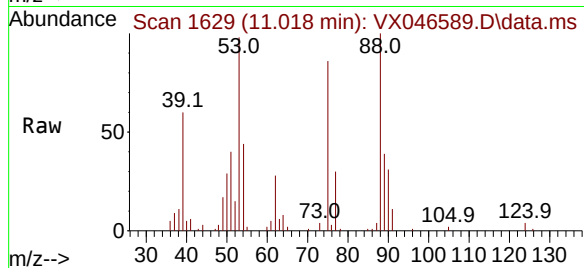
120 46.8 23.1 69.2





#81
trans-1,4-Dichloro-2-butene
Concen: 17.463 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

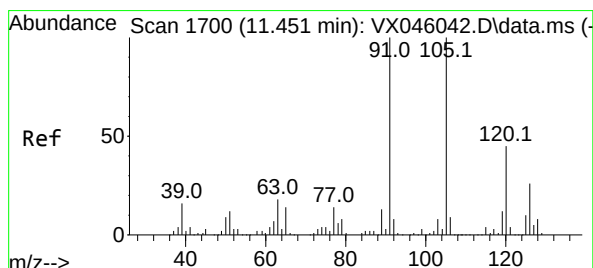
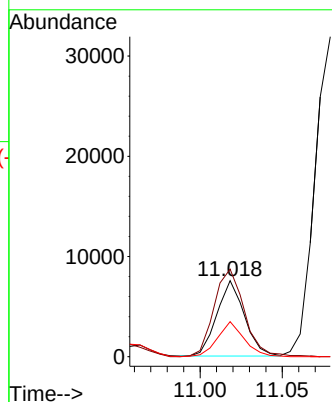
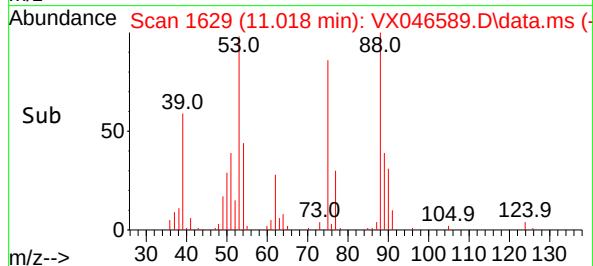
Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01



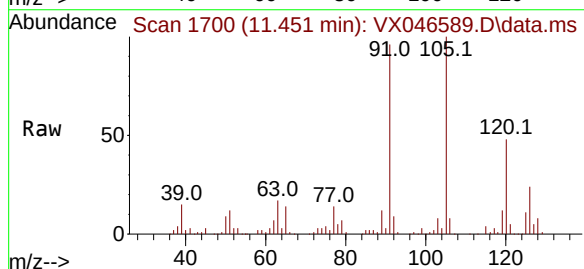
Tgt Ion: 75 Resp: 8748
Ion Ratio Lower Upper
75 100
53 128.6 100.5 150.7
89 45.1 37.0 55.6

Manual Integrations
APPROVED

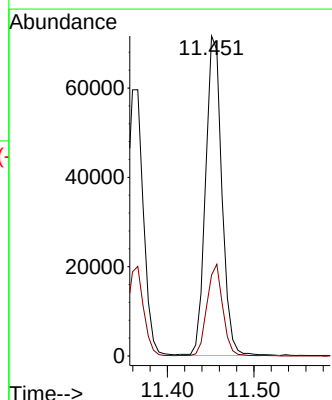
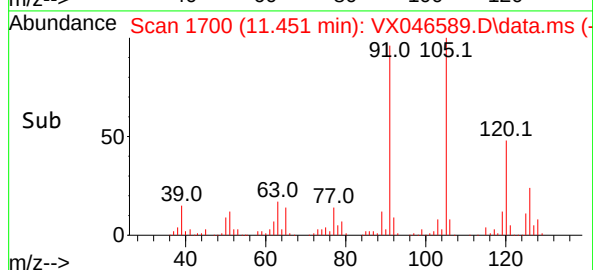
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

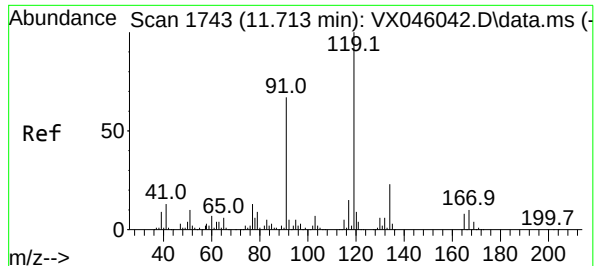


#82
4-Chlorotoluene
Concen: 20.090 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18



Tgt Ion: 91 Resp: 93212
Ion Ratio Lower Upper
91 100
126 28.0 13.3 39.8





#83

tert-Butylbenzene

Concen: 20.426 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

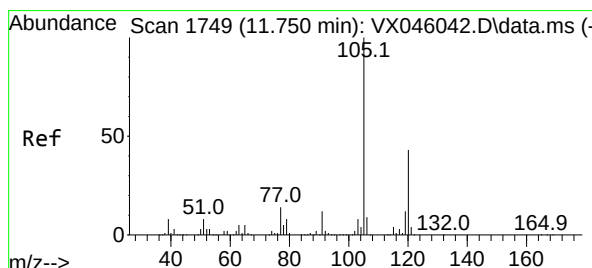
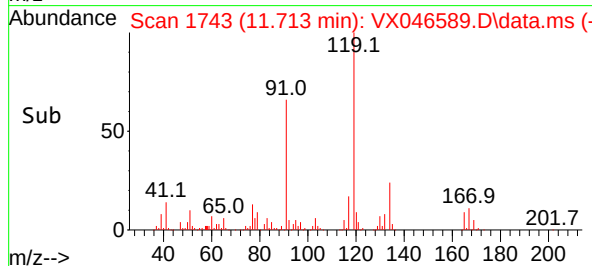
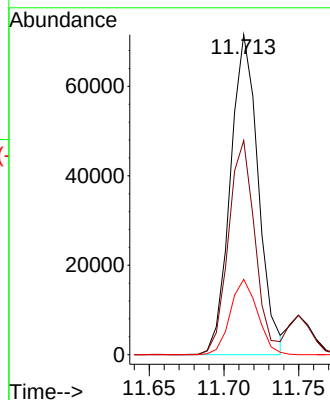
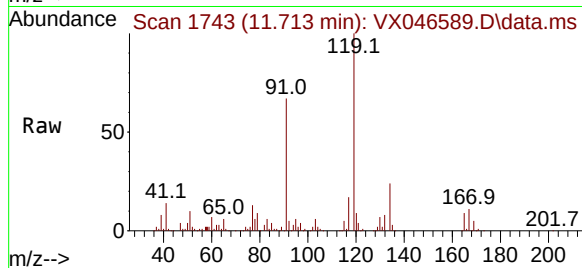
VX0610WBS01

Tgt Ion:	119	Resp:	9292
Ion	Ratio	Lower	Upper
119	100		
91	64.0	32.9	98.7
134	23.0	11.4	34.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#84

1,2,4-Trimethylbenzene

Concen: 20.838 ug/l

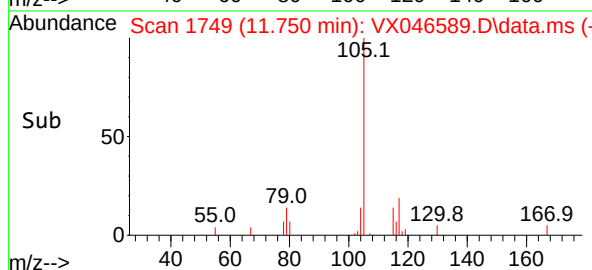
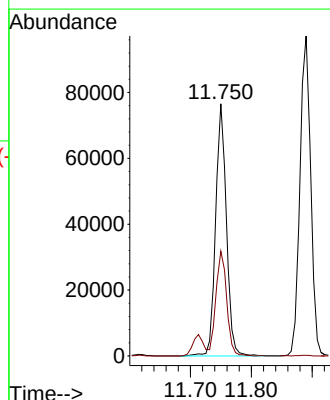
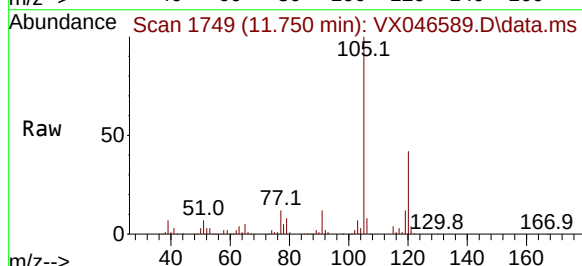
RT: 11.750 min Scan# 1749

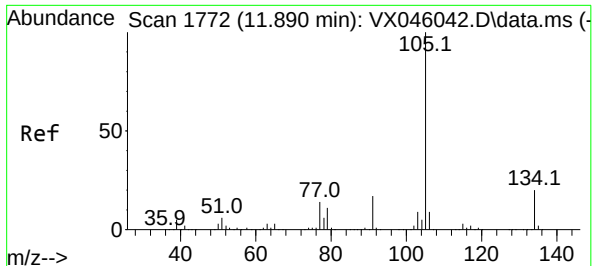
Delta R.T. -0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

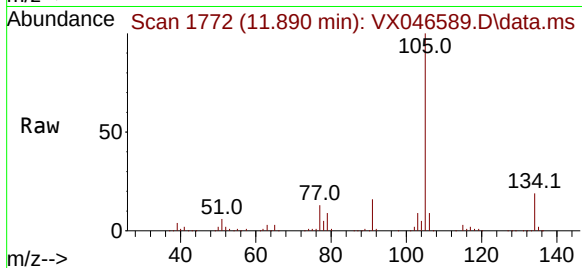
Tgt Ion:	105	Resp:	94205
Ion	Ratio	Lower	Upper
105	100		
120	42.0	21.2	63.6





#85
sec-Butylbenzene
Concen: 20.513 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

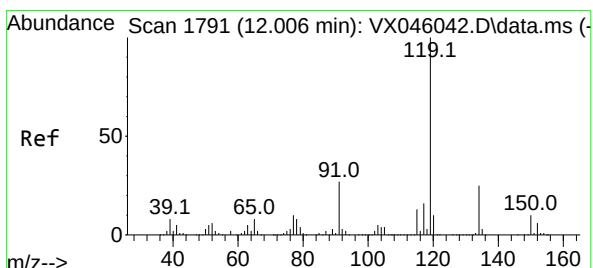
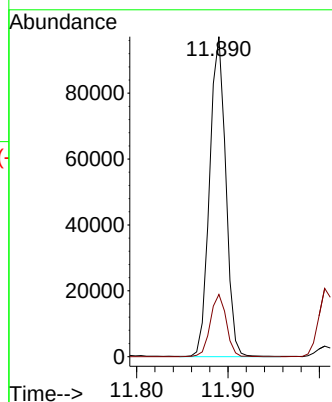
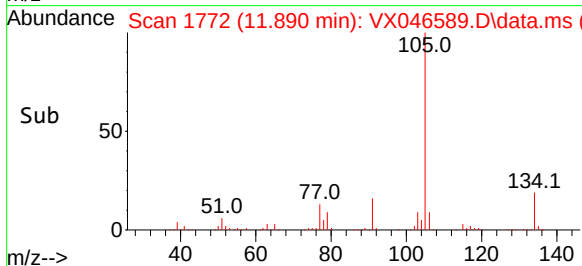
Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01



Tgt Ion:105 Resp: 11991
Ion Ratio Lower Upper
105 100
134 19.2 9.7 29.1

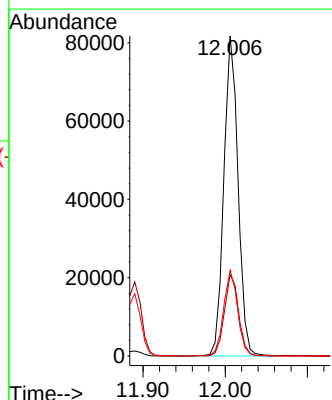
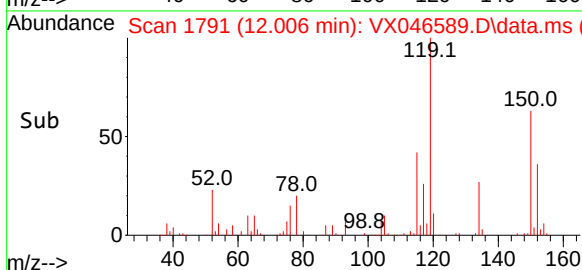
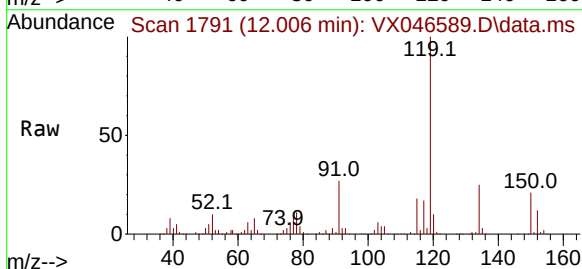
Manual Integrations
APPROVED

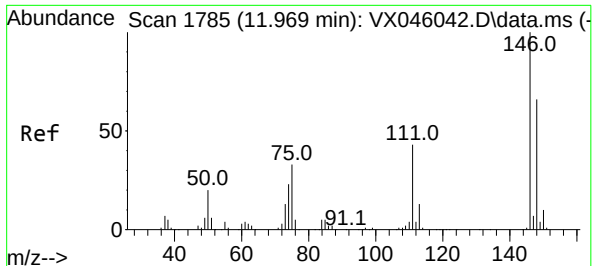
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#86
p-Isopropyltoluene
Concen: 20.160 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

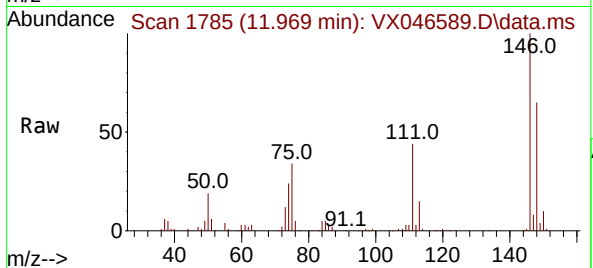
Tgt Ion:119 Resp: 98241
Ion Ratio Lower Upper
119 100
134 25.5 12.5 37.5
91 26.4 13.8 41.4





#87
1,3-Dichlorobenzene
Concen: 19.981 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

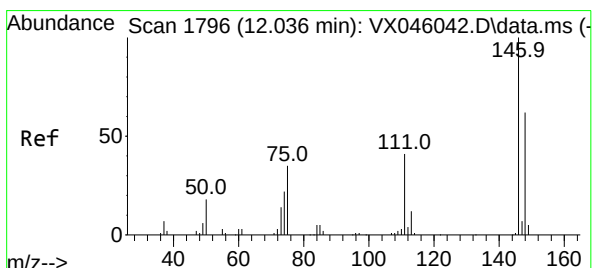
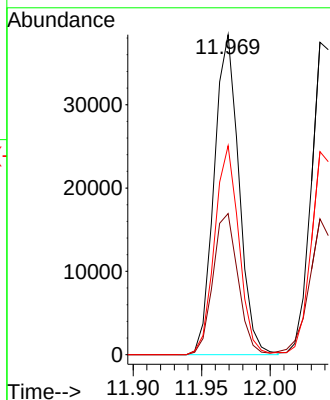
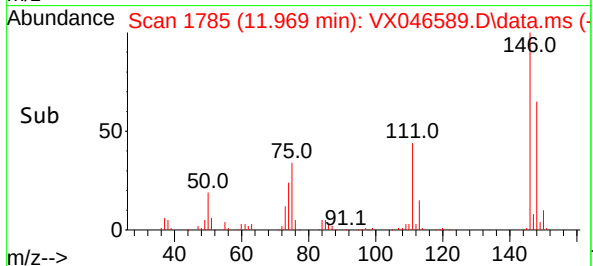
Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01



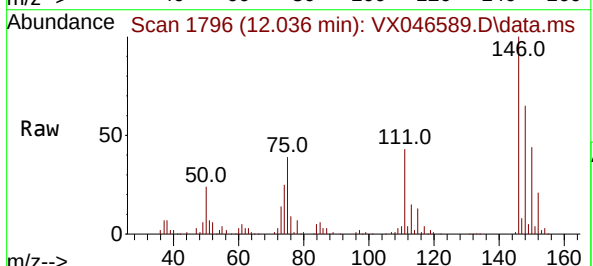
Tgt Ion:146 Resp: 48297
Ion Ratio Lower Upper
146 100
111 44.7 22.1 66.3
148 64.0 32.1 96.5

Manual Integrations
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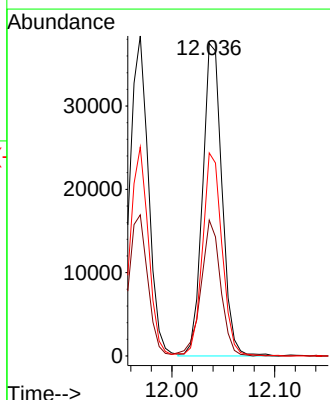
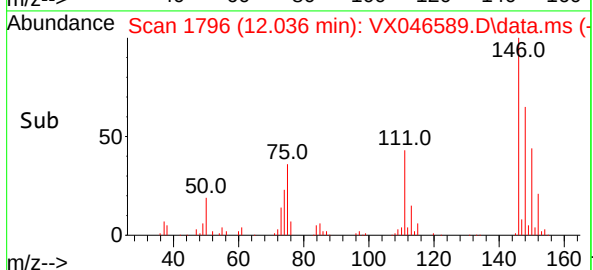
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

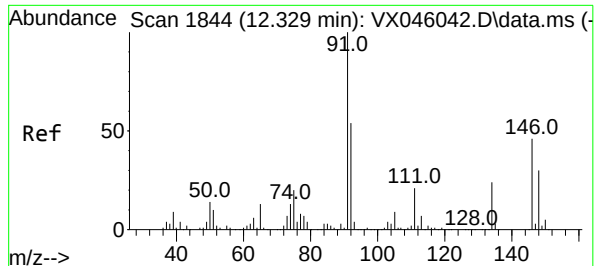


#88
1,4-Dichlorobenzene
Concen: 19.673 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.006 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18



Tgt Ion:146 Resp: 49276
Ion Ratio Lower Upper
146 100
111 43.8 21.3 63.9
148 65.4 31.9 95.5





#89

n-Butylbenzene

Concen: 19.917 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBS01

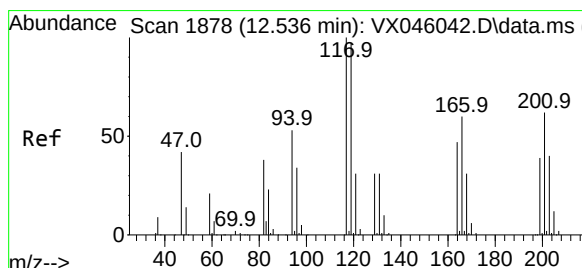
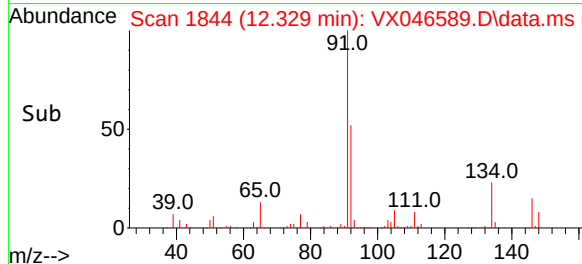
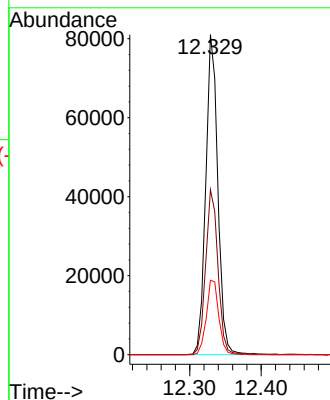
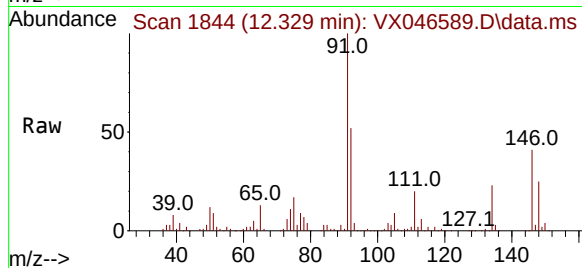
Tgt Ion: 91	Resp: 9531
Ion Ratio	Lower Upper
91	100
92	52.8 26.9 80.7
134	24.0 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#90

Hexachloroethane

Concen: 19.436 ug/l

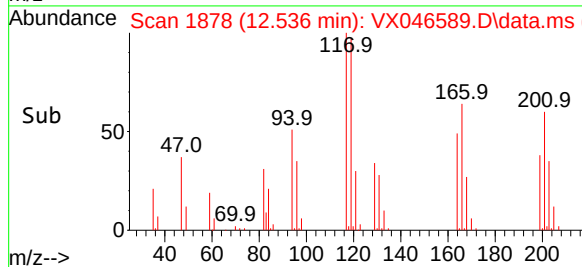
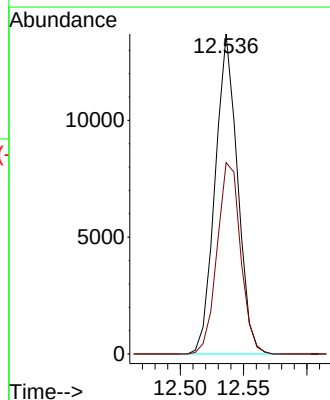
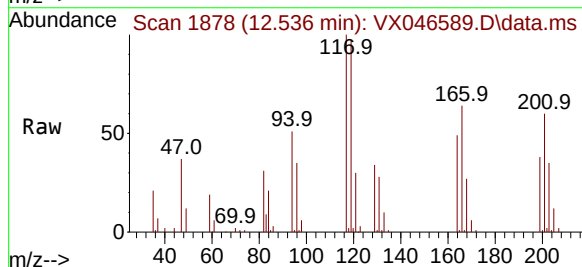
RT: 12.536 min Scan# 1878

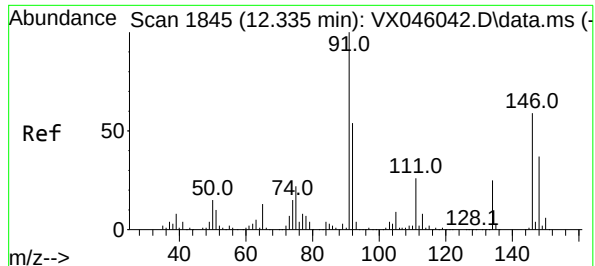
Delta R.T. 0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

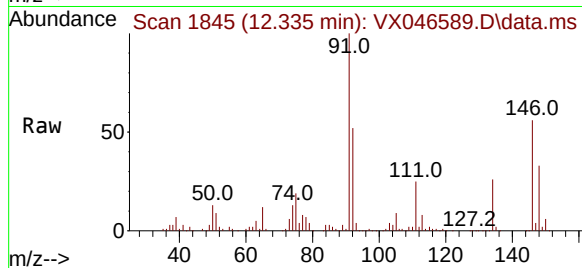
Tgt Ion: 117	Resp: 16834
Ion Ratio	Lower Upper
117	100
201	62.9 31.6 94.7





#91
1,2-Dichlorobenzene
Concen: 20.885 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

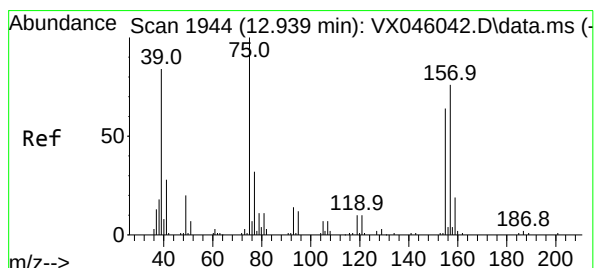
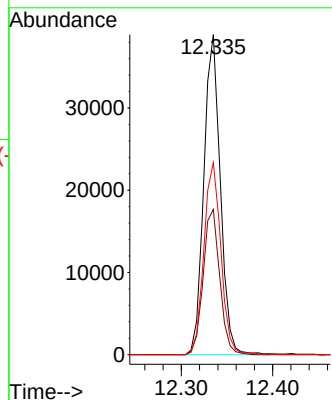
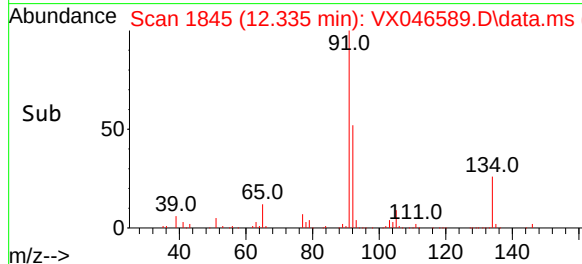
Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01



Tgt Ion:146 Resp: 48730
Ion Ratio Lower Upper
146 100
111 45.5 22.4 67.3
148 61.7 31.6 94.8

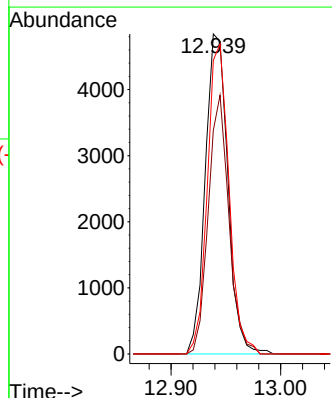
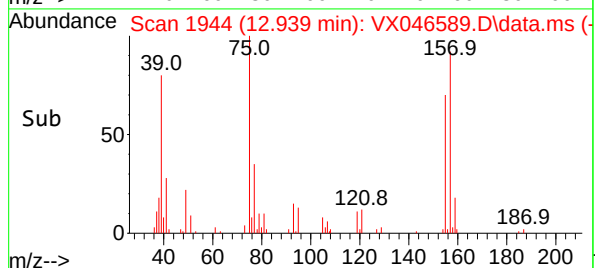
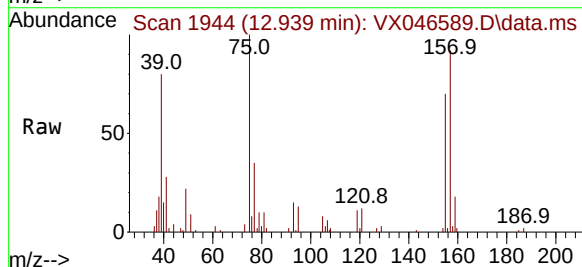
Manual Integrations
APPROVED

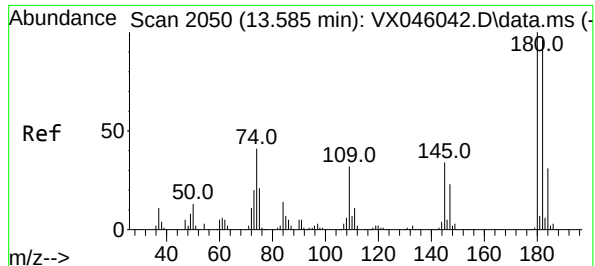
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 18.000 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

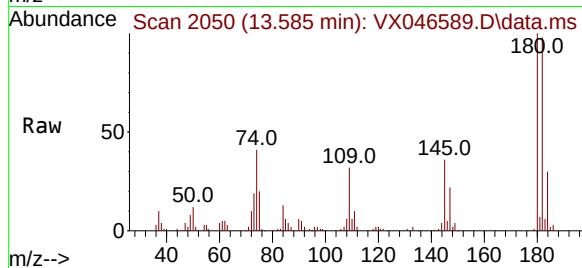
Tgt Ion: 75 Resp: 6919
Ion Ratio Lower Upper
75 100
155 74.0 34.9 104.8
157 92.7 43.8 131.4





#93
1,2,4-Trichlorobenzene
Concen: 19.438 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

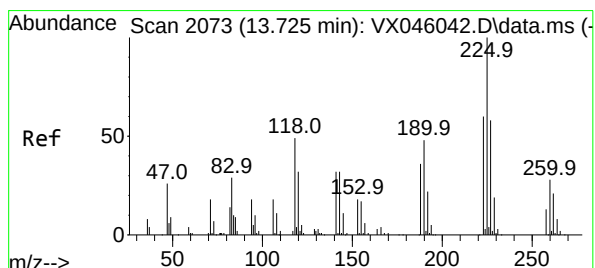
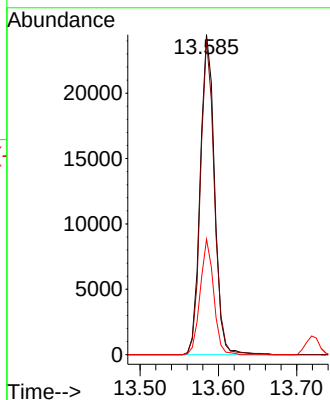
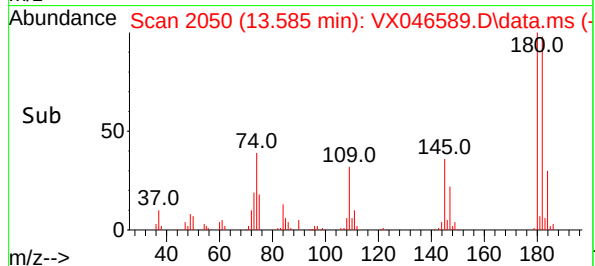
Instrument :
MSVOA_X
ClientSampleId :
VX0610WBS01



Tgt Ion:180 Resp: 30939
Ion Ratio Lower Upper
180 100
182 95.7 47.9 143.8
145 33.9 17.1 51.2

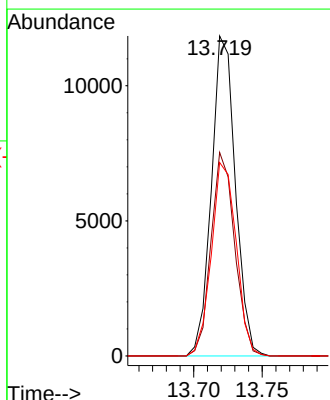
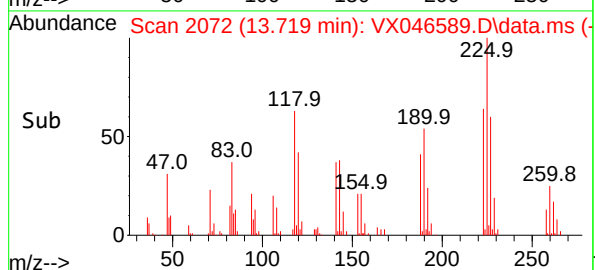
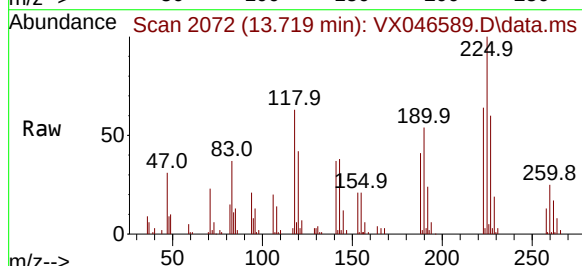
Manual Integrations
APPROVED

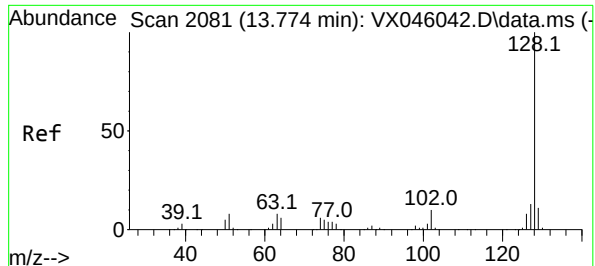
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#94
Hexachlorobutadiene
Concen: 19.438 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX046589.D
Acq: 10 Jun 2025 10:18

Tgt Ion:225 Resp: 14378
Ion Ratio Lower Upper
225 100
223 63.0 30.8 92.4
227 62.9 30.9 92.7





#95

Naphthalene

Concen: 19.595 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VX0610WBS01

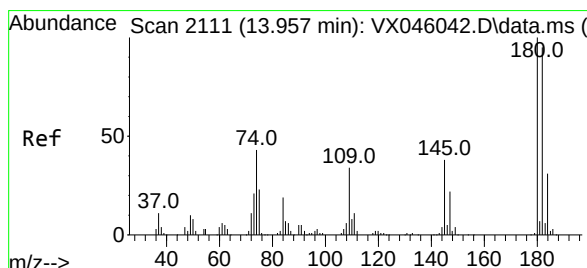
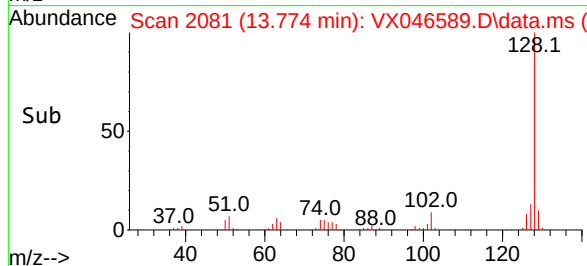
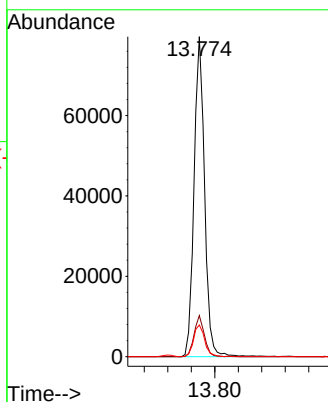
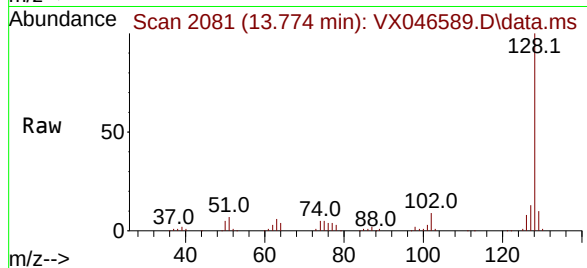
Tgt Ion:	128	Resp:	9890
Ion	Ratio	Lower	Upper
128	100		
127	12.4	10.4	15.6
129	10.5	8.6	13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#96

1,2,3-Trichlorobenzene

Concen: 19.237 ug/l

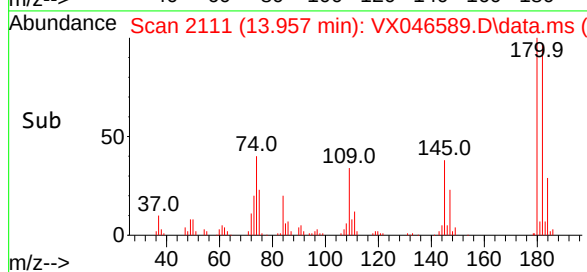
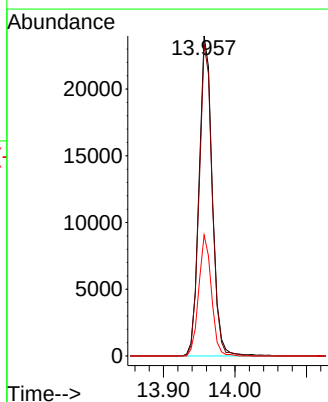
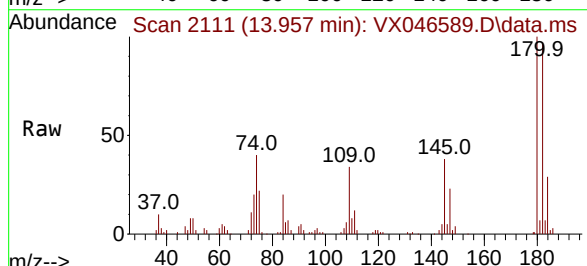
RT: 13.957 min Scan# 2111

Delta R.T. -0.000 min

Lab File: VX046589.D

Acq: 10 Jun 2025 10:18

Tgt Ion:	180	Resp:	30702
Ion	Ratio	Lower	Upper
180	100		
182	95.9	47.8	143.3
145	36.1	18.1	54.3



Report of Analysis

Client:	CDM Smith		Date Collected:	
Project:	Con Ed UTEN Mount Vernon, NY		Date Received:	
Client Sample ID:	VX0611WBS02	SDG No.:	Q2230	
Lab Sample ID:	VX0611WBS02	Matrix:	Water	
Analytical Method:	8260D	% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	
Soil Aliquot Vol:			uL	
GC Column:	DB-624UI	ID :	0.18	
Prep Method :		Level :	LOW	
		Final Vol:	5000	uL
		Test:	VOCMS Group3	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046639.D	1		06/11/25 15:58	VX061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	19.6		0.15	1.00	ug/L
108-88-3	Toluene	20.2		0.14	1.00	ug/L
100-41-4	Ethyl Benzene	19.2		0.13	1.00	ug/L
1330-20-7	Total Xylenes	60.2		0.36	3.00	ug/L
98-82-8	Isopropylbenzene	19.1		0.12	1.00	ug/L
103-65-1	n-propylbenzene	18.8		0.13	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	18.9		0.15	1.00	ug/L
98-06-6	tert-Butylbenzene	19.2		0.14	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	19.2		0.14	1.00	ug/L
135-98-8	sec-Butylbenzene	19.3		0.13	1.00	ug/L
99-87-6	p-Isopropyltoluene	18.9		0.13	1.00	ug/L
104-51-8	n-Butylbenzene	18.3		0.15	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.0		74 - 125	88%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		75 - 124	96%	SPK: 50
2037-26-5	Toluene-d8	47.2		86 - 113	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		77 - 121	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	79400	5.568			
540-36-3	1,4-Difluorobenzene	137000	6.775			
3114-55-4	Chlorobenzene-d5	126000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	66500	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\VX061125\
 Data File : VX046639.D
 Acq On : 11 Jun 2025 15:58
 Operator : JC/MD
 Sample : VX0611WBS02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0611WBS02

Quant Time: Jun 12 02:30:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 06/12/2025
 Supervised By :Mahesh Dadoda 06/12/2025

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

Internal Standards						
1) Pentafluorobenzene	5.568	168	79398	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	136732	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	125565	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	66542	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.970	65	62097	43.960	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	87.920%
35) Dibromofluoromethane	5.403	113	48061	47.797	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.600%
50) Toluene-d8	8.653	98	156454	47.195	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	94.380%
62) 4-Bromofluorobenzene	11.079	95	66562	48.529	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.060%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.185	85	18394	16.687	ug/l	99
3) Chloromethane	1.307	50	15963	15.910	ug/l	97
4) Vinyl Chloride	1.386	62	16348	16.345	ug/l	98
5) Bromomethane	1.624	94	7595	12.509	ug/l	87
6) Chloroethane	1.703	64	11674m	17.990	ug/l	
7) Trichlorofluoromethane	1.904	101	27390	16.552	ug/l	100
8) Diethyl Ether	2.154	74	10628	18.177	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.349	101	19463	18.668	ug/l	96
10) Methyl Iodide	2.471	142	17332	15.335	ug/l	96
11) Tert butyl alcohol	2.977	59	14234	90.811	ug/l	100
12) 1,1-Dichloroethene	2.337	96	17506	18.571	ug/l	98
13) Acrolein	2.252	56	18224	114.600	ug/l	99
14) Allyl chloride	2.684	41	34592	18.685	ug/l	94
15) Acrylonitrile	3.081	53	59026	99.599	ug/l	98
16) Acetone	2.392	43	52377	97.283	ug/l	96
17) Carbon Disulfide	2.532	76	34376	17.308	ug/l	99
18) Methyl Acetate	2.721	43	35991	21.391	ug/l	98
19) Methyl tert-butyl Ether	3.129	73	65364	19.817	ug/l	97
20) Methylene Chloride	2.806	84	21399	18.883	ug/l	90
21) trans-1,2-Dichloroethene	3.111	96	18113	18.157	ug/l	99
22) Diisopropyl ether	3.782	45	72174	19.774	ug/l #	78
23) Vinyl Acetate	3.739	43	277051	98.316	ug/l	99
24) 1,1-Dichloroethane	3.635	63	39252	19.296	ug/l	99
25) 2-Butanone	4.574	43	77024	97.951	ug/l	98
26) 2,2-Dichloropropane	4.495	77	29063	19.245	ug/l	97
27) cis-1,2-Dichloroethene	4.507	96	24101	19.625	ug/l	94
28) Bromochloromethane	4.916	49	20247	20.868	ug/l	99
29) Tetrahydrofuran	5.025	42	47052	94.747	ug/l	97
30) Chloroform	5.111	83	42286	19.839	ug/l	98
31) Cyclohexane	5.489	56	30482	18.562	ug/l	96
32) 1,1,1-Trichloroethane	5.403	97	35963	19.725	ug/l	96
36) 1,1-Dichloropropene	5.708	75	26155	18.210	ug/l	99
37) Ethyl Acetate	4.733	43	30379	21.671	ug/l	99
38) Carbon Tetrachloride	5.696	117	30021	18.661	ug/l	97
39) Methylcyclohexane	7.391	83	29760	17.554	ug/l	95
40) Benzene	6.056	78	79373	19.630	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
 Data File : VX046639.D
 Acq On : 11 Jun 2025 15:58
 Operator : JC/MD
 Sample : VX0611WBS02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0611WBS02

Manual Integrations APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Mahesh Dadoda 06/12/2025

Quant Time: Jun 12 02:30:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.940	41	16254	18.672	ug/l	92
42) 1,2-Dichloroethane	6.098	62	32150	19.112	ug/l	96
43) Isopropyl Acetate	6.354	43	48194	19.720	ug/l	99
44) Trichloroethene	7.135	130	19685	19.160	ug/l	97
45) 1,2-Dichloropropane	7.434	63	21637	20.731	ug/l	98
46) Dibromomethane	7.592	93	15586	19.851	ug/l	97
47) Bromodichloromethane	7.830	83	33270	20.608	ug/l	98
48) Methyl methacrylate	7.702	41	24852	19.765	ug/l	95
49) 1,4-Dioxane	7.671	88	6382	379.544	ug/l	99
51) 4-Methyl-2-Pentanone	8.580	43	163442	105.244	ug/l	100
52) Toluene	8.720	92	50204	20.210	ug/l	100
53) t-1,3-Dichloropropene	8.982	75	28921	19.980	ug/l	97
54) cis-1,3-Dichloropropene	8.372	75	32006	19.887	ug/l	93
55) 1,1,2-Trichloroethane	9.153	97	21703	21.763	ug/l	98
56) Ethyl methacrylate	9.122	69	31509	20.532	ug/l	96
57) 1,3-Dichloropropane	9.311	76	35983	20.418	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.244	63	88166	105.474	ug/l	99
59) 2-Hexanone	9.433	43	115060	103.306	ug/l	98
60) Dibromochloromethane	9.525	129	24066	20.516	ug/l	98
61) 1,2-Dibromoethane	9.610	107	21076	20.281	ug/l	96
64) Tetrachloroethene	9.275	164	15135	18.025	ug/l	96
65) Chlorobenzene	10.079	112	57335	19.415	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.165	131	20729	20.772	ug/l	99
67) Ethyl Benzene	10.195	91	99024	19.208	ug/l	98
68) m/p-Xylenes	10.299	106	74956	40.080	ug/l	98
69) o-Xylene	10.640	106	36413	20.130	ug/l	100
70) Styrene	10.653	104	64851	20.944	ug/l	97
71) Bromoform	10.799	173	15814	20.783	ug/l #	99
73) Isopropylbenzene	10.963	105	99709	19.062	ug/l	99
74) N-amyl acetate	10.841	43	41919	18.198	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.213	83	33081	19.758	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	26532m	18.824	ug/l	
77) Bromobenzene	11.195	156	23318	19.206	ug/l	96
78) n-propylbenzene	11.305	91	118948	18.787	ug/l	100
79) 2-Chlorotoluene	11.366	91	71722	18.786	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	82556	18.940	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	8445	17.284	ug/l	99
82) 4-Chlorotoluene	11.451	91	83845	18.528	ug/l	96
83) tert-Butylbenzene	11.713	119	85087	19.176	ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	84799	19.231	ug/l	100
85) sec-Butylbenzene	11.890	105	110228	19.333	ug/l	100
86) p-Isopropyltoluene	12.006	119	89892	18.912	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	44656	18.941	ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	45863	18.773	ug/l	98
89) n-Butylbenzene	12.329	91	85456	18.308	ug/l	99
90) Hexachloroethane	12.536	117	15011	17.769	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	44193	19.419	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	6962	18.569	ug/l	91
93) 1,2,4-Trichlorobenzene	13.585	180	28946	18.645	ug/l	100
94) Hexachlorobutadiene	13.725	225	12700	17.603	ug/l	98
95) Naphthalene	13.774	128	94270	19.148	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	28547	18.338	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046639.D
Acq On : 11 Jun 2025 15:58
Operator : JC/MD
Sample : VX0611WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 12 02:30:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

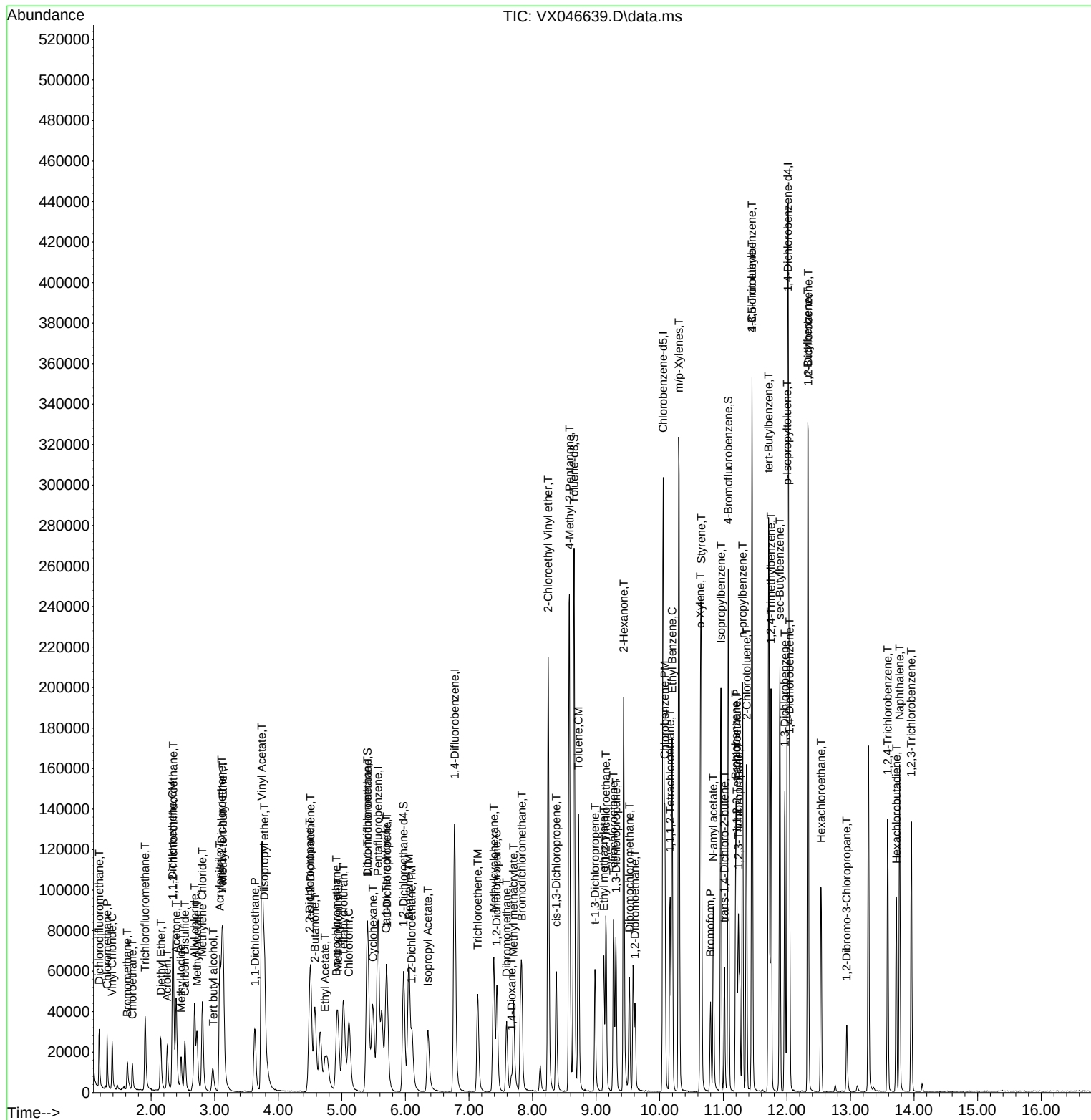
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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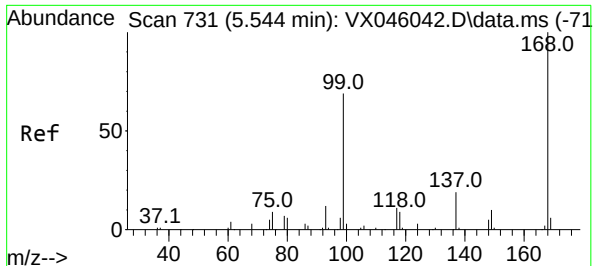
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025





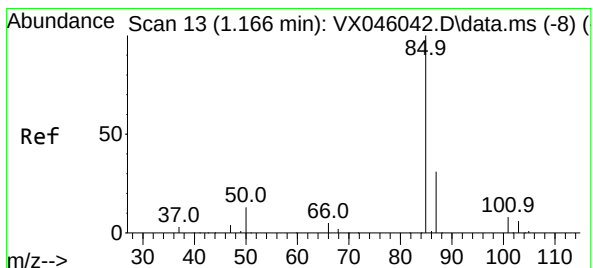
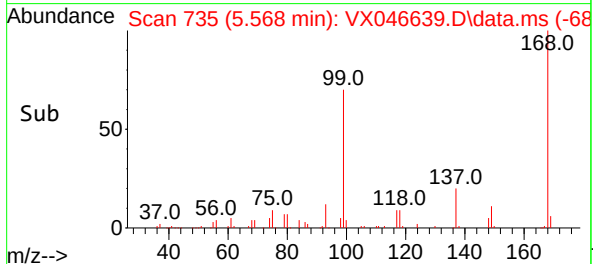
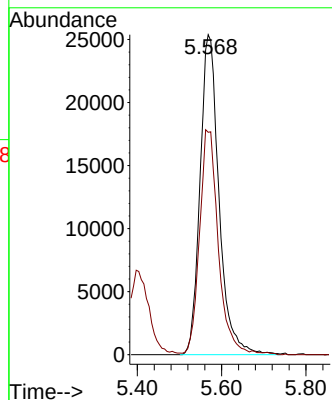
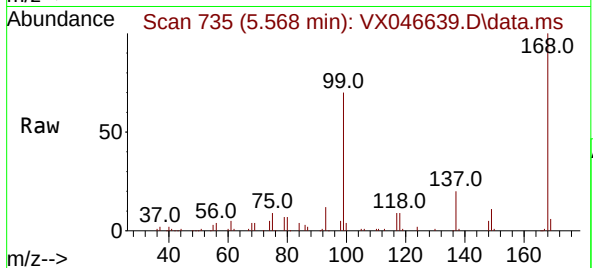
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion:168 Resp: 79398
Ion Ratio Lower Upper
168 100
99 69.5 54.9 82.3

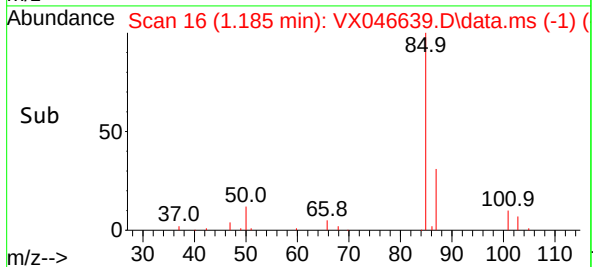
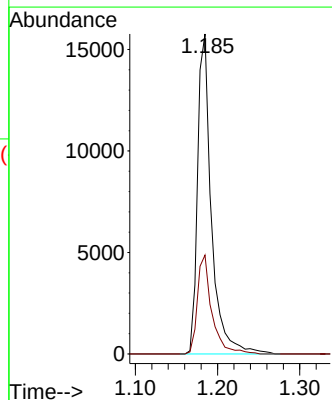
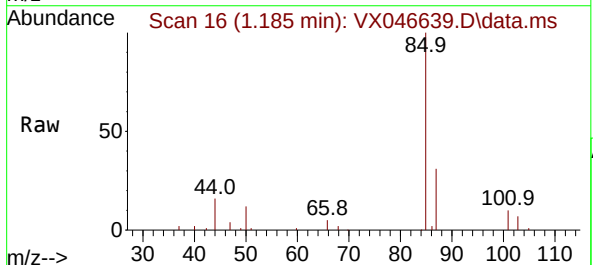
Manual Integrations
APPROVED

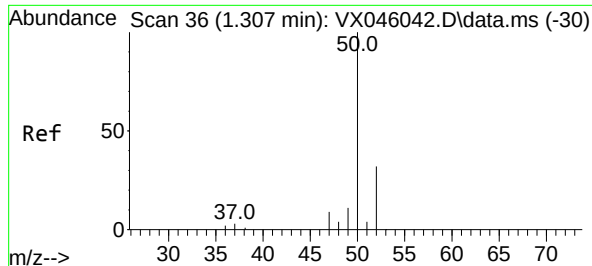
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#2
Dichlorodifluoromethane
Concen: 16.687 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion: 85 Resp: 18394
Ion Ratio Lower Upper
85 100
87 30.9 15.7 47.1





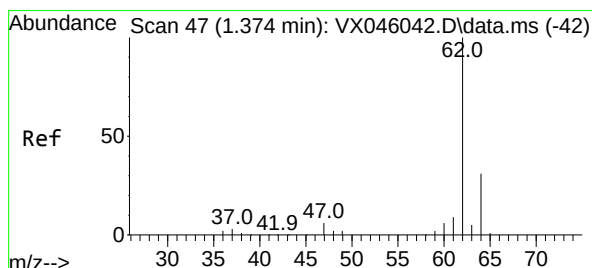
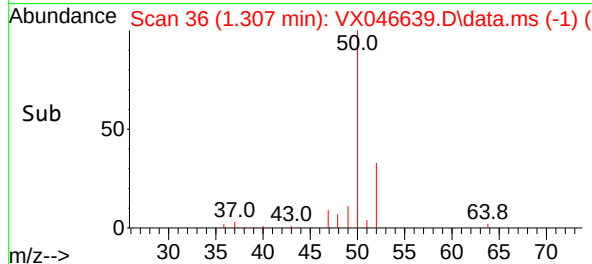
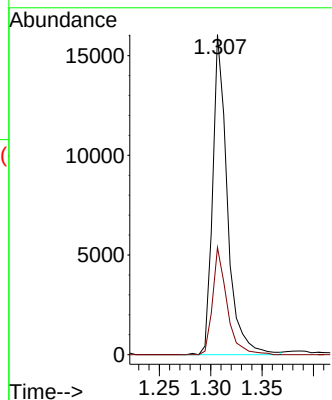
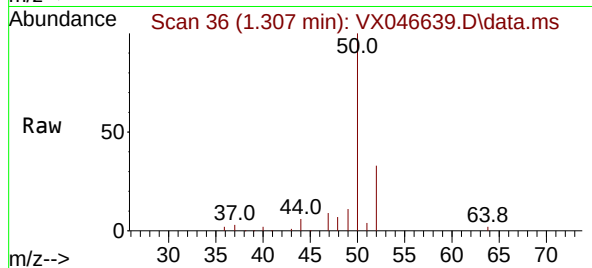
#3
Chloromethane
Concen: 15.910 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion: 50 Resp: 1596
Ion Ratio Lower Upper
50 100
52 33.5 25.4 38.2

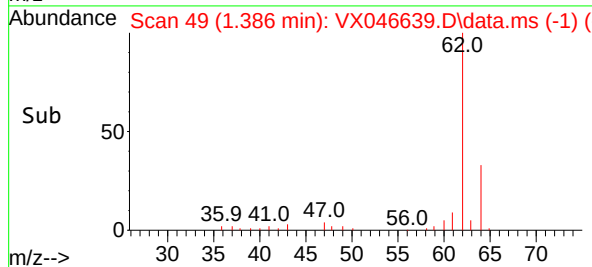
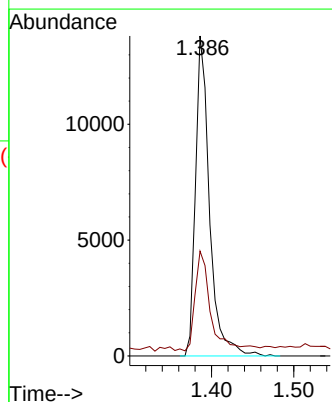
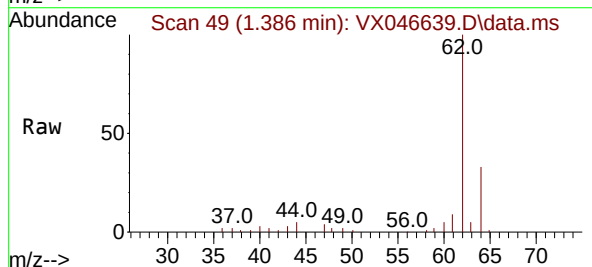
Manual Integrations
APPROVED

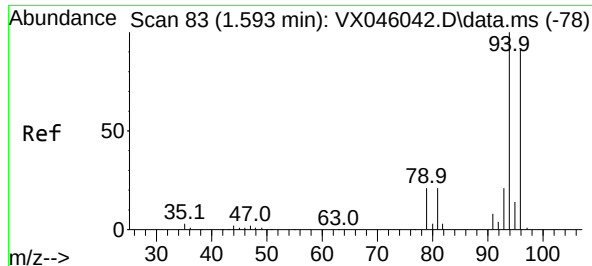
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#4
Vinyl Chloride
Concen: 16.345 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion: 62 Resp: 16348
Ion Ratio Lower Upper
62 100
64 30.6 25.2 37.8





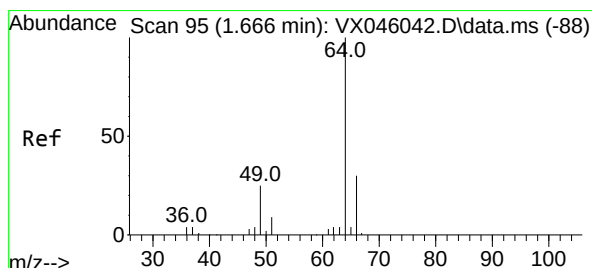
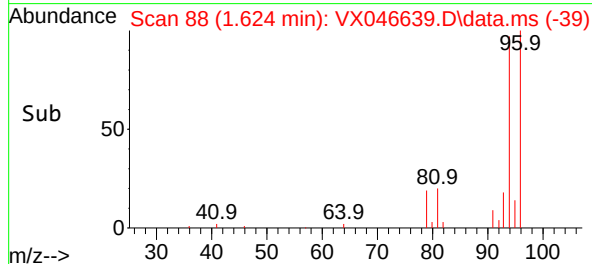
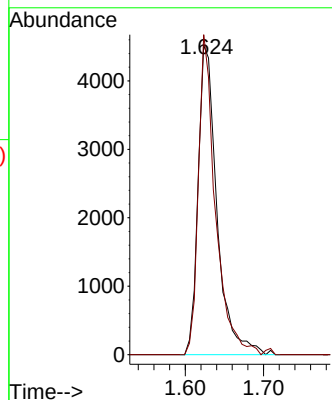
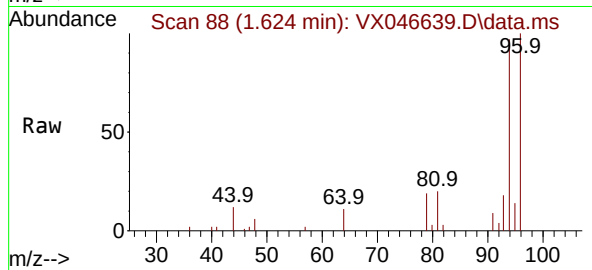
#5
Bromomethane
Concen: 12.509 ug/l
RT: 1.624 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion: 94 Resp: 759
Ion Ratio Lower Upper
94 100
96 103.5 72.8 109.2

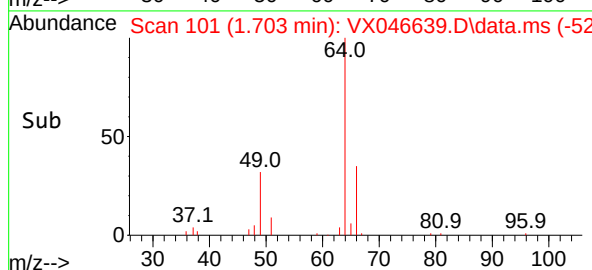
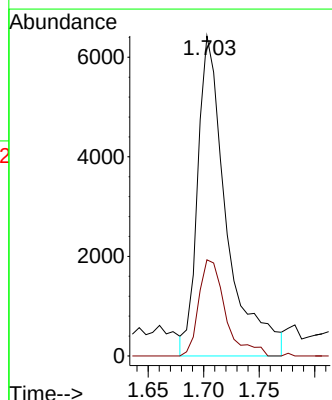
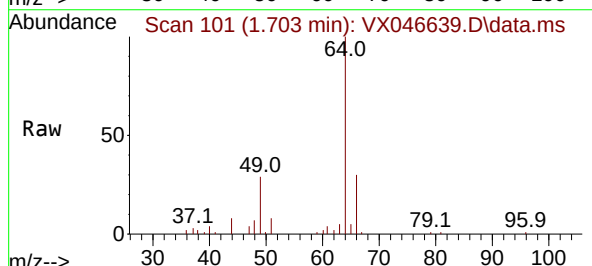
Manual Integrations
APPROVED

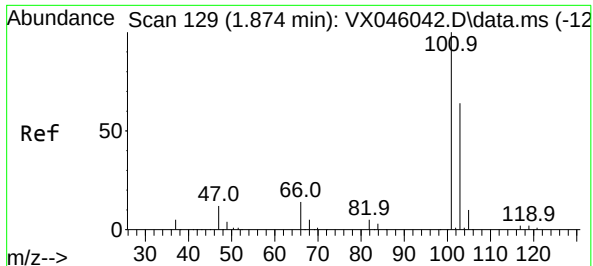
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#6
Chloroethane
Concen: 17.990 ug/l m
RT: 1.703 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

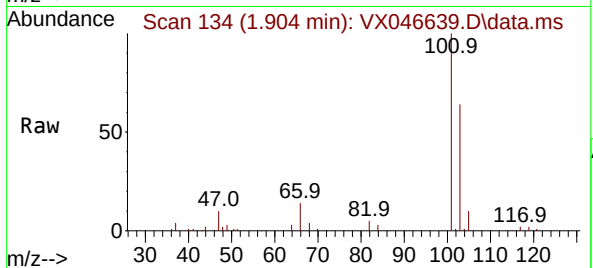
Tgt Ion: 64 Resp: 11674
Ion Ratio Lower Upper
64 100
66 30.1 24.3 36.5





#7
Trichlorofluoromethane
Concen: 16.552 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

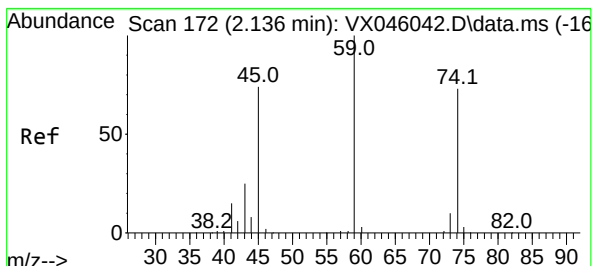
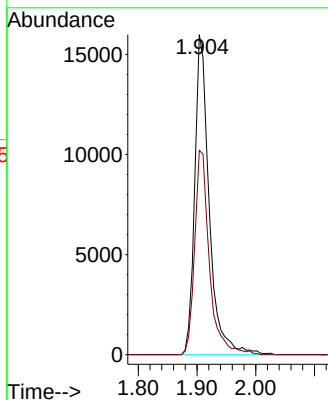
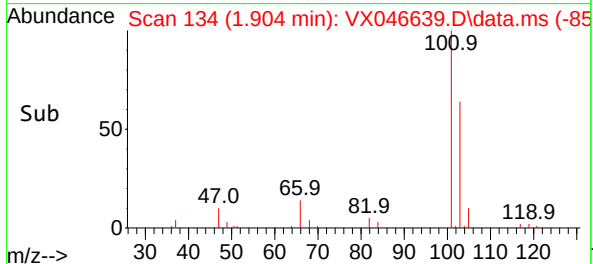
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



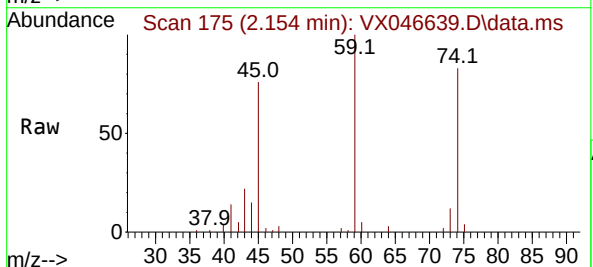
Tgt Ion:101 Resp: 27390
Ion Ratio Lower Upper
101 100
103 63.9 51.0 76.4

Manual Integrations
APPROVED

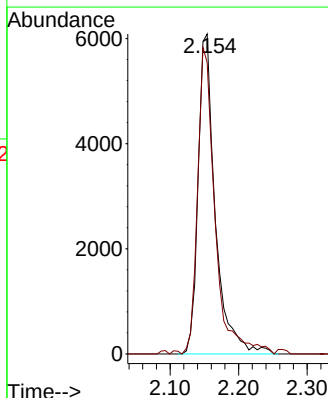
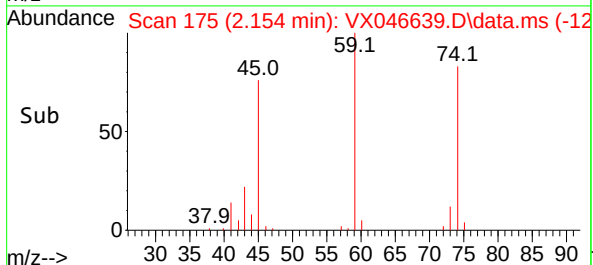
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

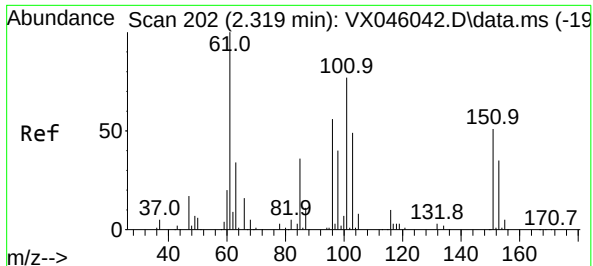


#8
Diethyl Ether
Concen: 18.177 ug/l
RT: 2.154 min Scan# 175
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58



Tgt Ion: 74 Resp: 10628
Ion Ratio Lower Upper
74 100
45 97.5 54.9 164.8





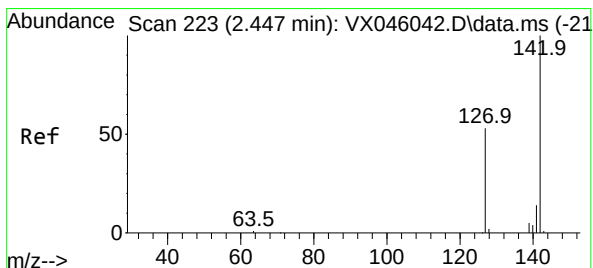
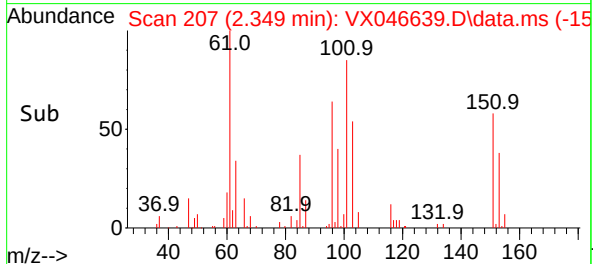
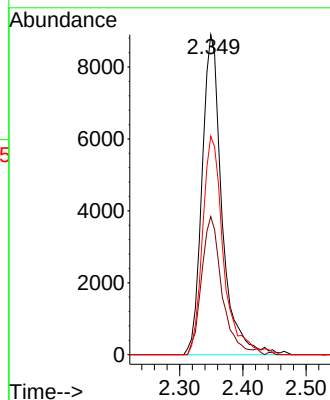
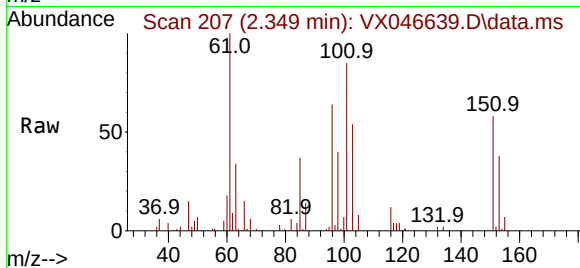
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1,1,2-Trichlorotrifluoroethane
Concen: 18.668 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion:101 Resp: 1946
Ion Ratio Lower Upper
101 100
85 44.6 38.6 58.0
151 71.8 55.2 82.8

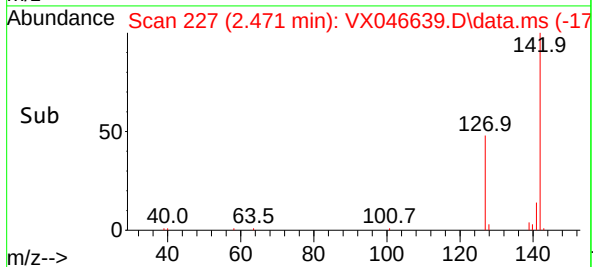
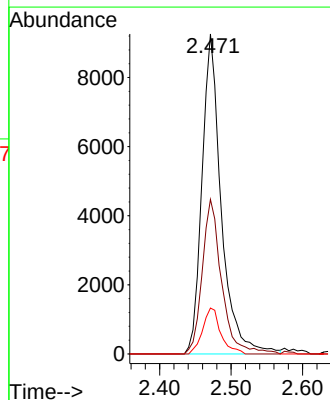
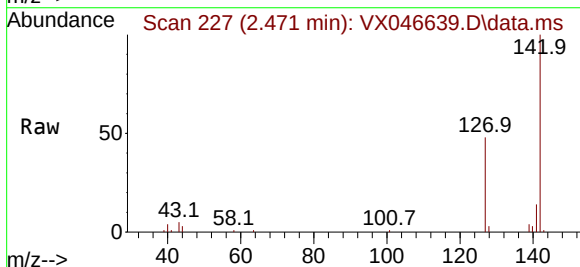
Manual Integrations
APPROVED

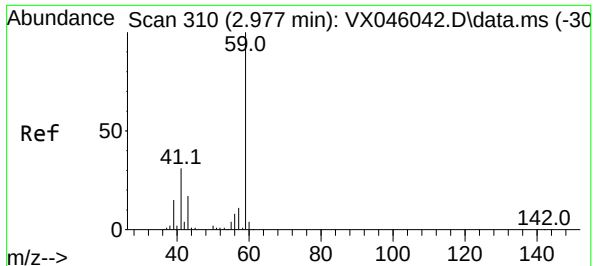
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#10
Methyl Iodide
Concen: 15.335 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion:142 Resp: 17332
Ion Ratio Lower Upper
142 100
127 48.7 41.7 62.5
141 13.5 11.5 17.3





#11

Tert butyl alcohol

Concen: 90.811 ug/l

RT: 2.977 min Scan# 310

Delta R.T. 0.006 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 59 Resp: 14234

Ion Ratio Lower Upper

59 100

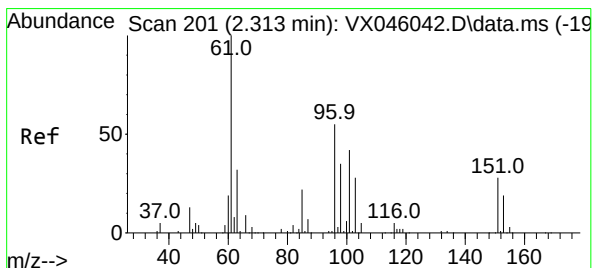
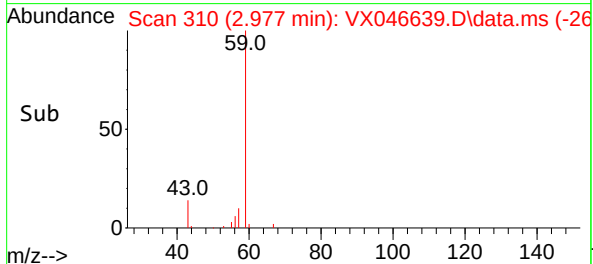
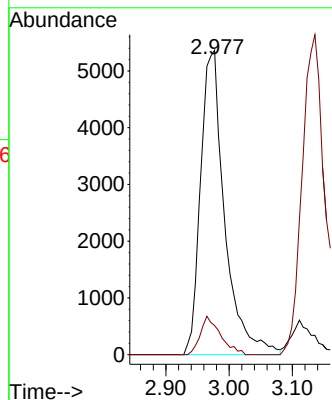
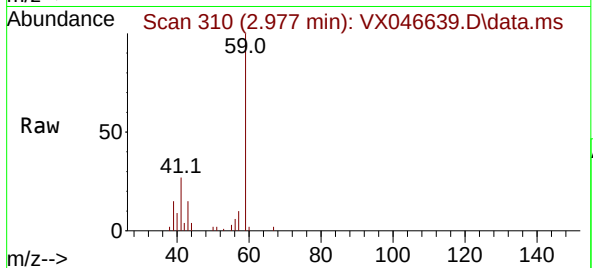
57 10.6 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#12

1,1-Dichloroethene

Concen: 18.571 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

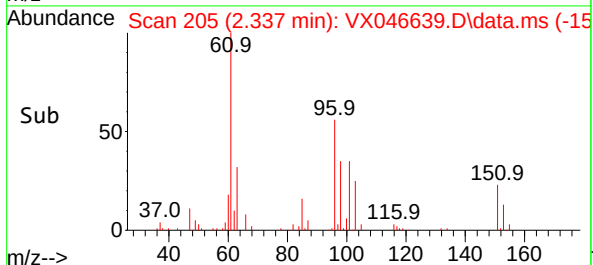
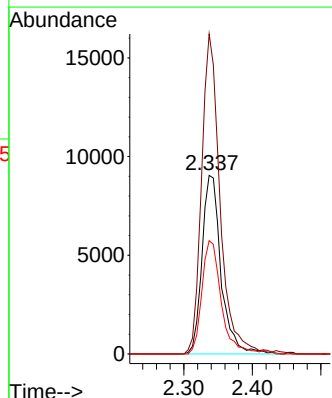
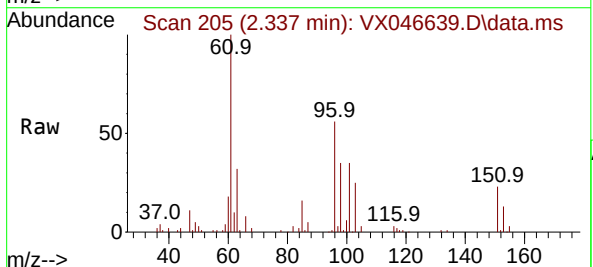
Tgt Ion: 96 Resp: 17506

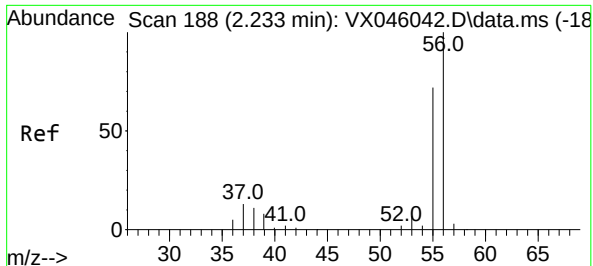
Ion Ratio Lower Upper

96 100

61 179.2 146.2 219.2

98 63.4 51.0 76.6





#13

Acrolein

Concen: 114.600 ug/l

RT: 2.252 min Scan# 1822

Delta R.T. 0.001 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

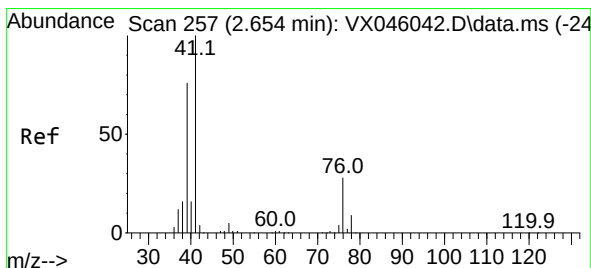
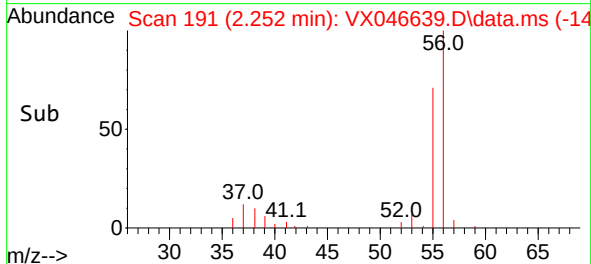
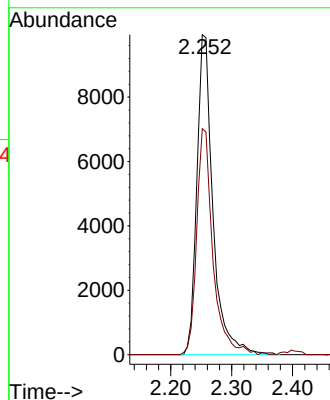
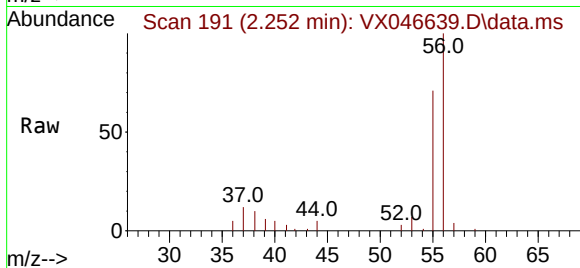
Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion:	56	Resp:	1822
Ion	Ratio	Lower	Upper
56	100		
55	71.3	56.2	84.4

Manual Integrations
APPROVEDReviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

#14

Allyl chloride

Concen: 18.685 ug/l

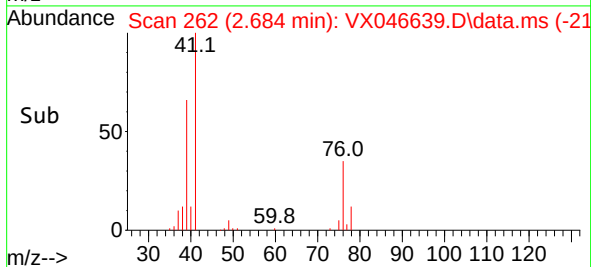
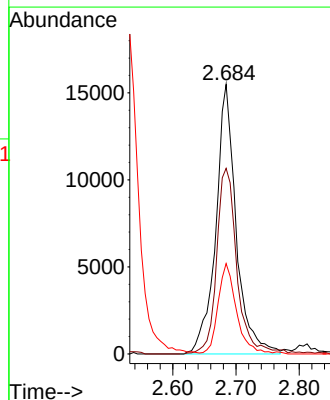
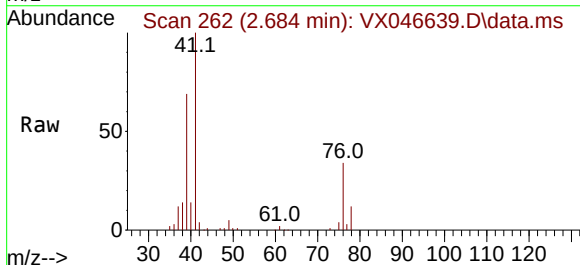
RT: 2.684 min Scan# 262

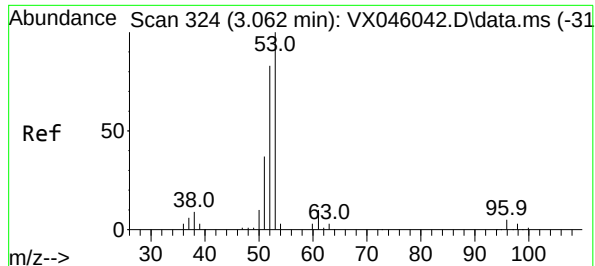
Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Tgt Ion:	41	Resp:	34592
Ion	Ratio	Lower	Upper
41	100		
39	69.2	60.6	90.8
76	29.3	24.9	37.3





#15

Acrylonitrile

Concen: 99.599 ug/l

RT: 3.081 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

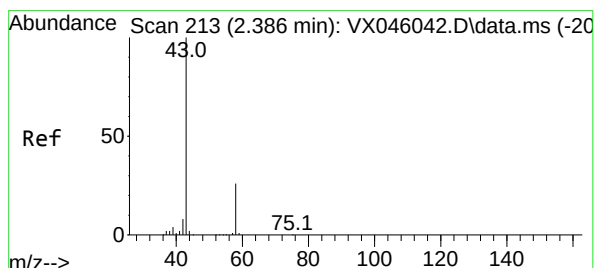
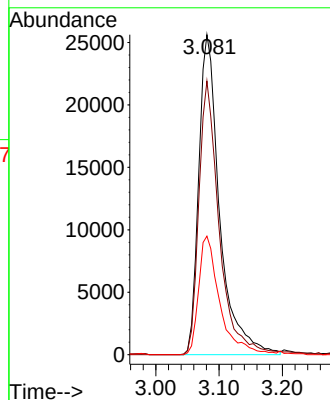
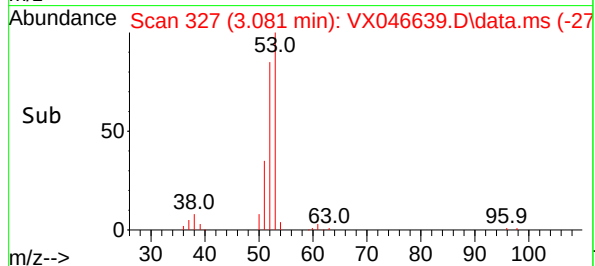
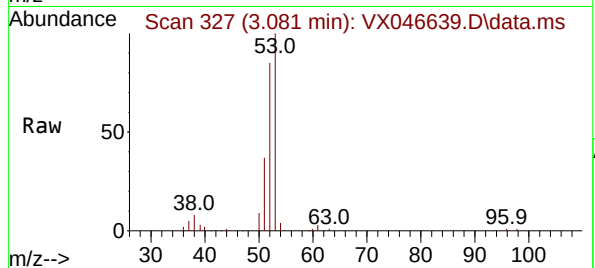
VX0611WBS02

Tgt Ion:	53	Resp:	5902
Ion	Ratio	Lower	Upper
53	100		
52	84.0	65.3	97.9
51	37.5	29.8	44.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#16

Acetone

Concen: 97.283 ug/l

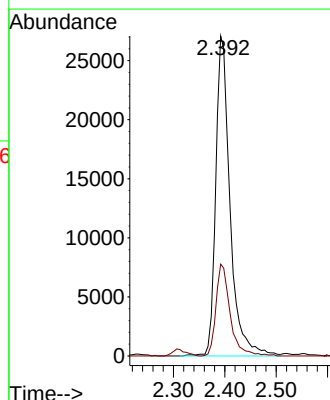
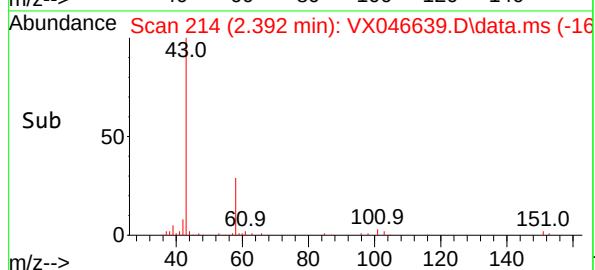
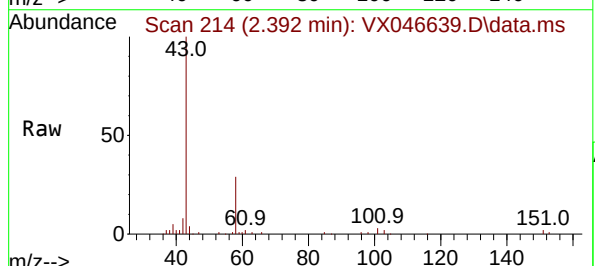
RT: 2.392 min Scan# 214

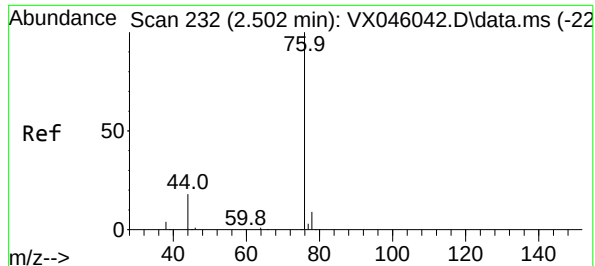
Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Tgt Ion:	43	Resp:	52377
Ion	Ratio	Lower	Upper
43	100		
58	28.7	21.2	31.8





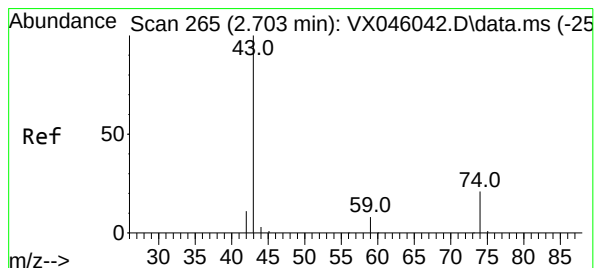
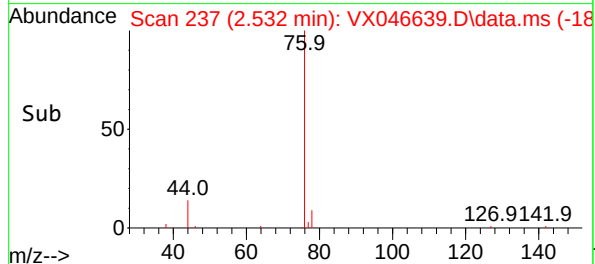
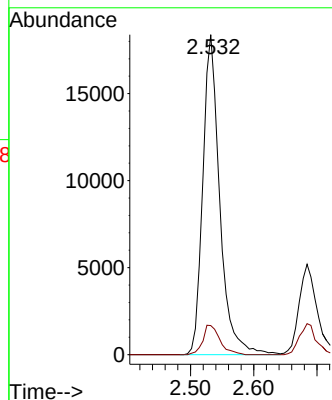
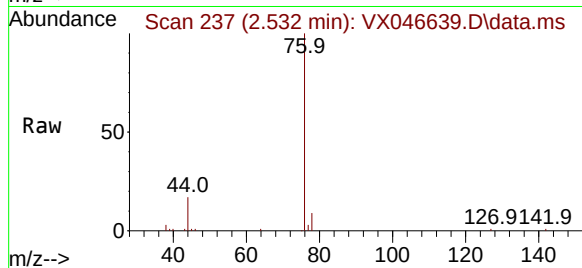
#17
Carbon Disulfide
Concen: 17.308 ug/l
RT: 2.532 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion: 76 Resp: 34370
Ion Ratio Lower Upper
76 100
78 9.1 7.0 10.4

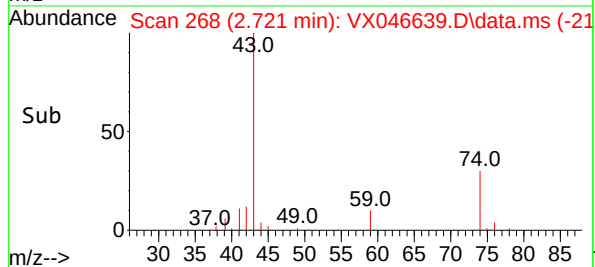
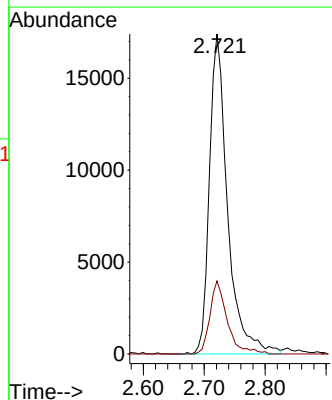
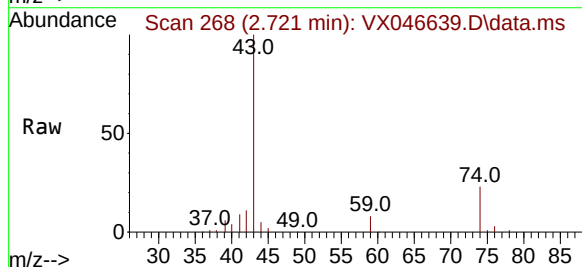
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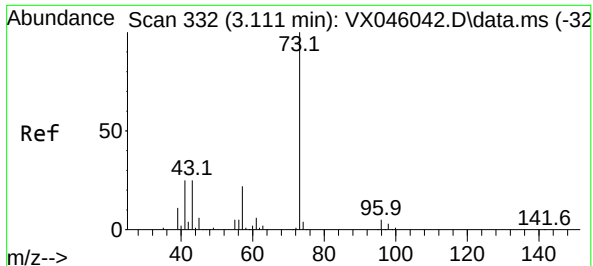
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#18
Methyl Acetate
Concen: 21.391 ug/l
RT: 2.721 min Scan# 268
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion: 43 Resp: 35991
Ion Ratio Lower Upper
43 100
74 21.7 16.7 25.1





#19

Methyl tert-butyl Ether

Concen: 19.817 ug/l

RT: 3.129 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 73 Resp: 65364

Ion Ratio Lower Upper

73 100

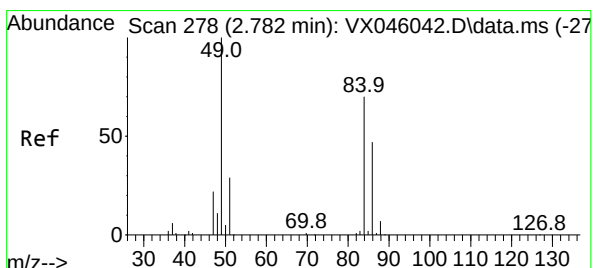
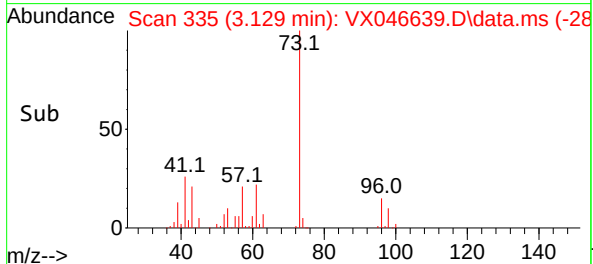
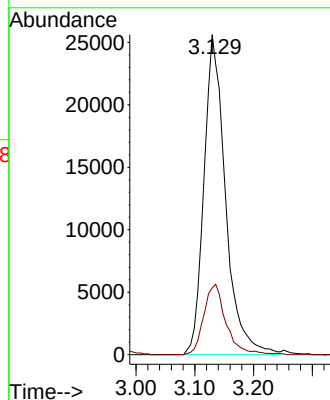
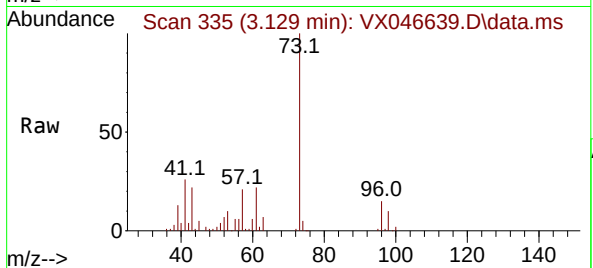
57 20.8 17.7 26.5

Manual Integrations

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Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#20

Methylene Chloride

Concen: 18.883 ug/l

RT: 2.806 min Scan# 282

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Tgt Ion: 84 Resp: 21399

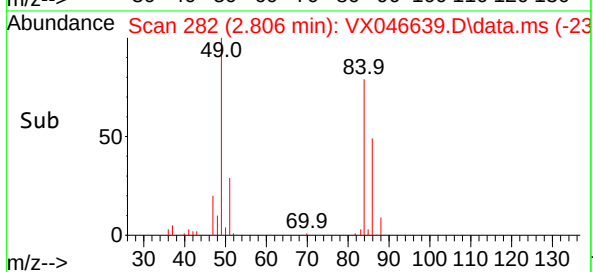
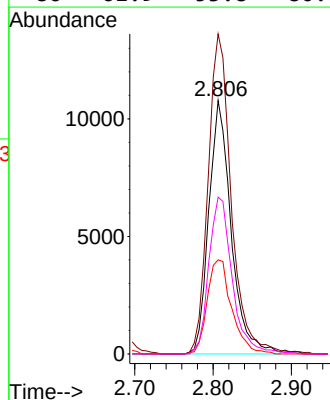
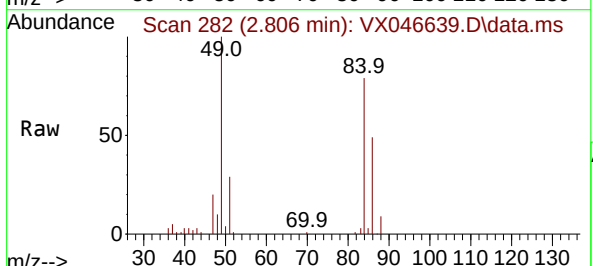
Ion Ratio Lower Upper

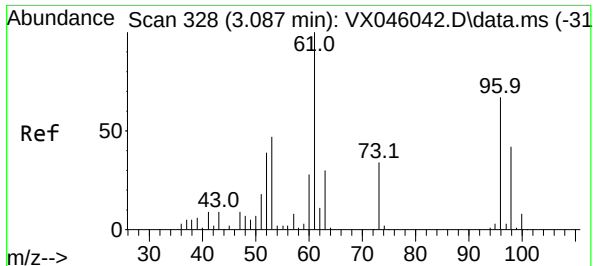
84 100

49 126.3 113.9 170.9

51 37.1 33.5 50.3

86 61.9 53.8 80.8





#21

trans-1,2-Dichloroethene

Concen: 18.157 ug/l

RT: 3.111 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 96 Resp: 1811

Ion Ratio Lower Upper

96 100

61 150.1 119.5 179.3

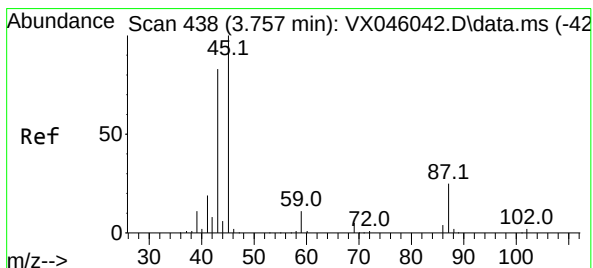
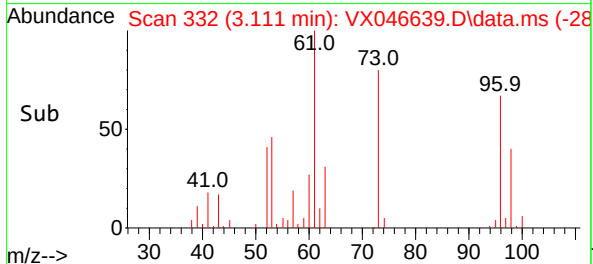
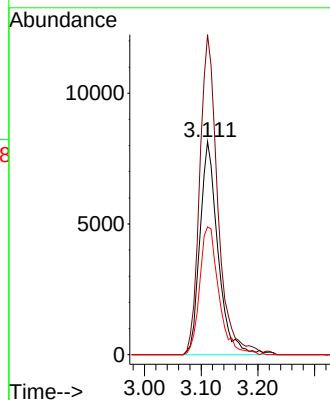
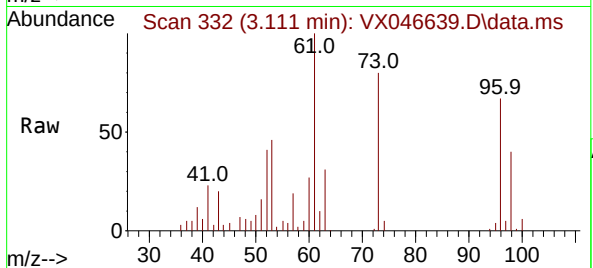
98 60.0 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#22

Diisopropyl ether

Concen: 19.774 ug/l

RT: 3.782 min Scan# 442

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Tgt Ion: 45 Resp: 72174

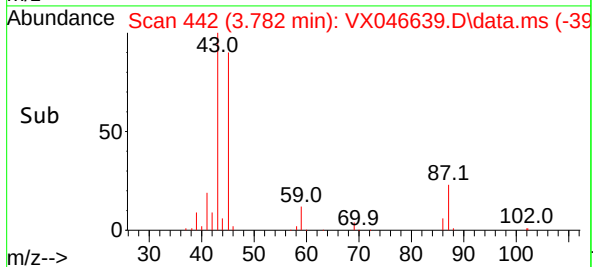
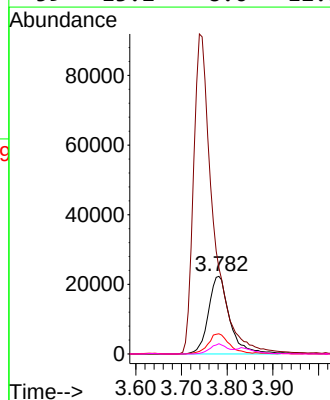
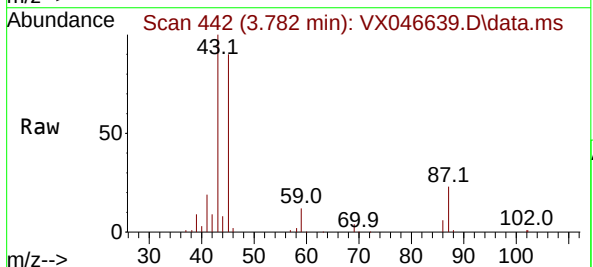
Ion Ratio Lower Upper

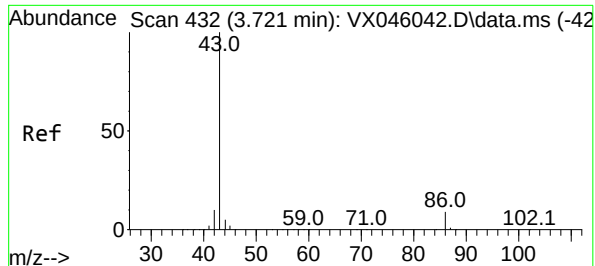
45 100

43 110.5 66.6 100.0#

87 26.0 19.8 29.6

59 13.2 8.6 12.8#





#23

Vinyl Acetate

Concen: 98.316 ug/l

RT: 3.739 min Scan# 41

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 43 Resp: 27705

Ion Ratio Lower Upper

43 100

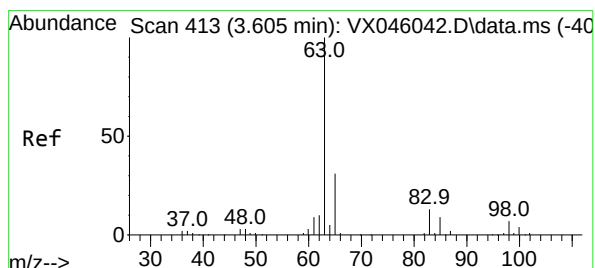
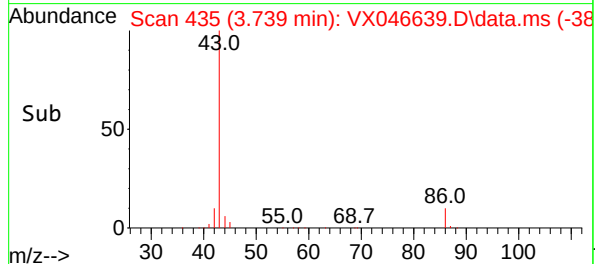
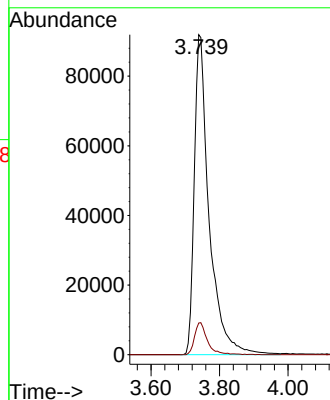
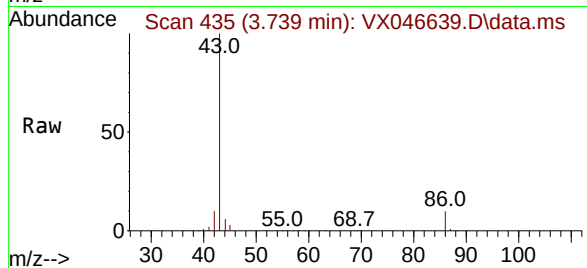
86 9.9 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#24

1,1-Dichloroethane

Concen: 19.296 ug/l

RT: 3.635 min Scan# 418

Delta R.T. 0.006 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

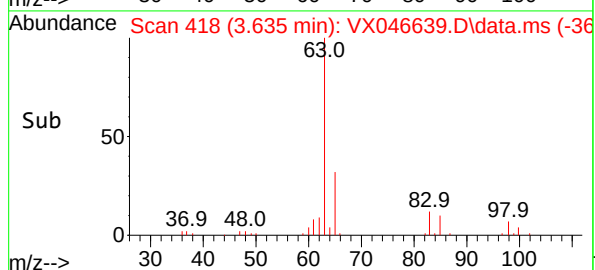
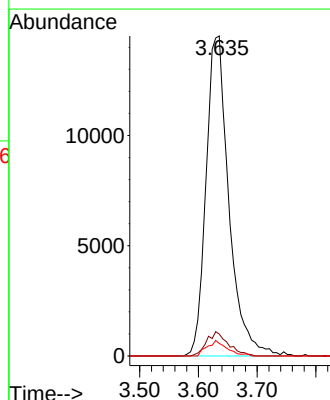
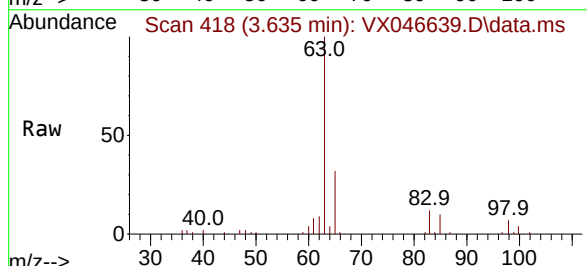
Tgt Ion: 63 Resp: 39252

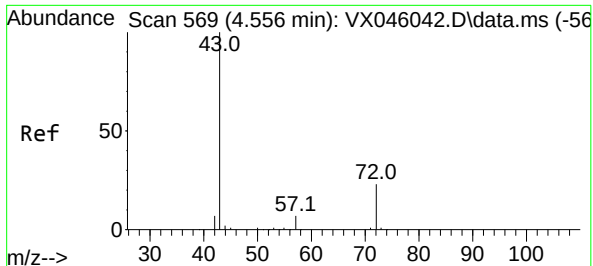
Ion Ratio Lower Upper

63 100

98 6.8 3.6 10.8

100 3.9 2.1 6.3





#25

2-Butanone

Concen: 97.951 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 43 Resp: 77024

Ion Ratio Lower Upper

43 100

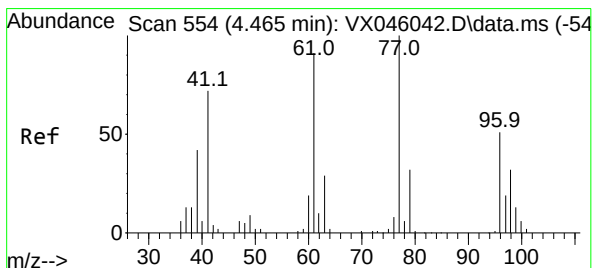
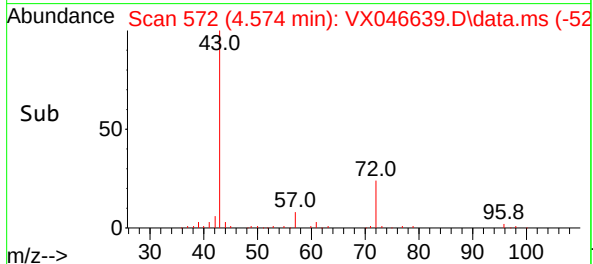
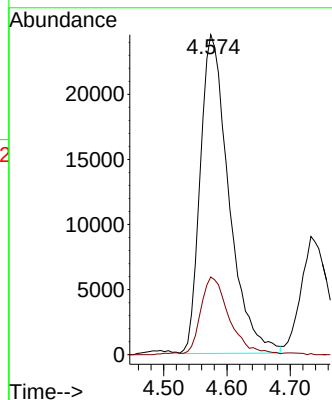
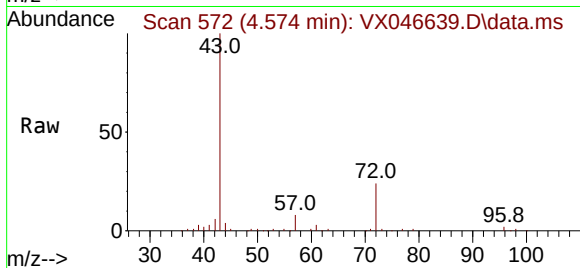
72 24.1 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#26

2,2-Dichloropropane

Concen: 19.245 ug/l

RT: 4.495 min Scan# 559

Delta R.T. 0.000 min

Lab File: VX046639.D

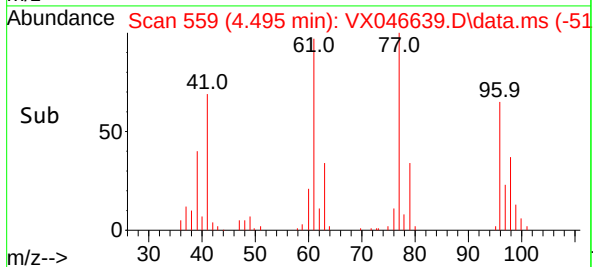
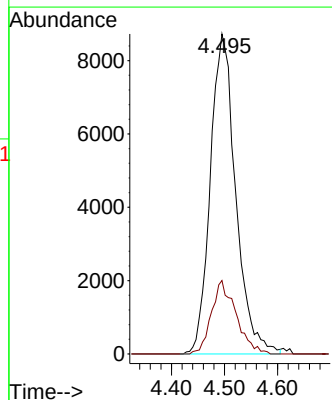
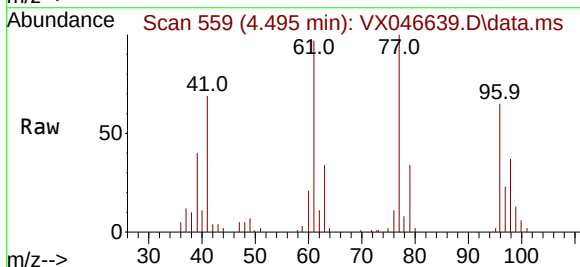
Acq: 11 Jun 2025 15:58

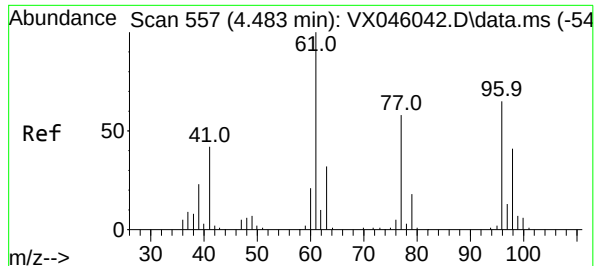
Tgt Ion: 77 Resp: 29063

Ion Ratio Lower Upper

77 100

97 22.3 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 19.625 ug/l

RT: 4.507 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 96 Resp: 2410

Ion Ratio Lower Upper

96 100

61 151.5 0.0 322.8

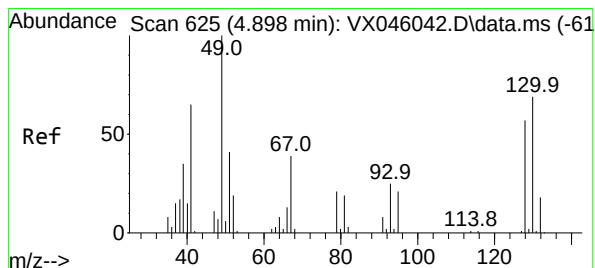
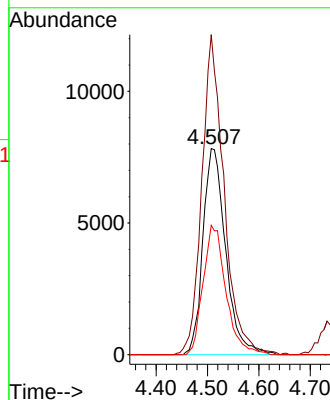
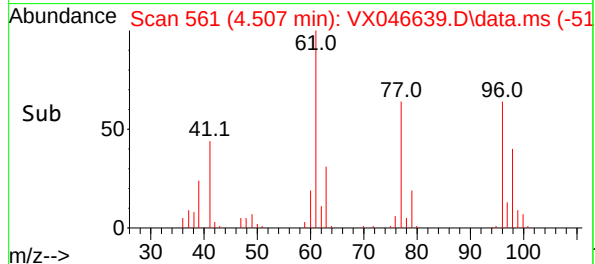
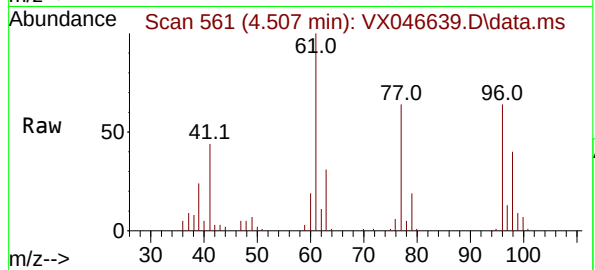
98 62.8 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#28

Bromochloromethane

Concen: 20.868 ug/l

RT: 4.916 min Scan# 628

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

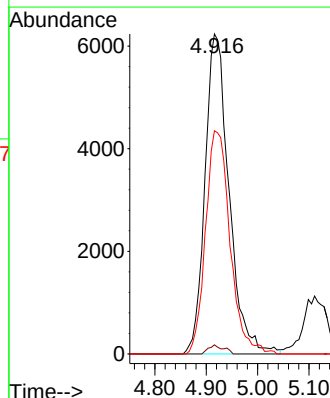
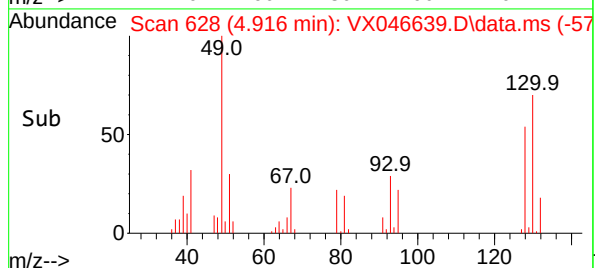
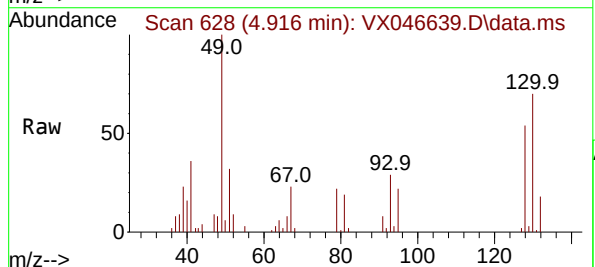
Tgt Ion: 49 Resp: 20247

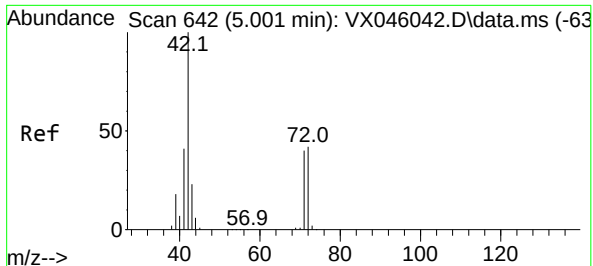
Ion Ratio Lower Upper

49 100

129 1.8 0.0 4.0

130 71.1 56.2 84.2





#29

Tetrahydrofuran

Concen: 94.747 ug/l

RT: 5.025 min Scan# 64

Delta R.T. 0.006 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

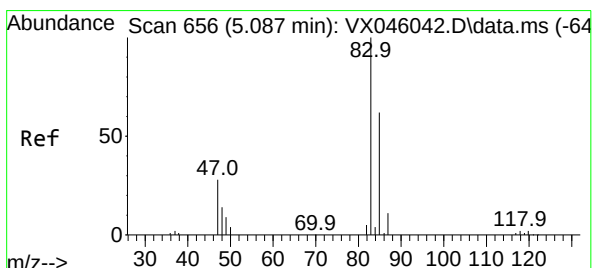
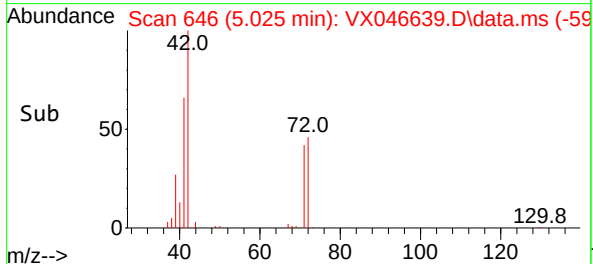
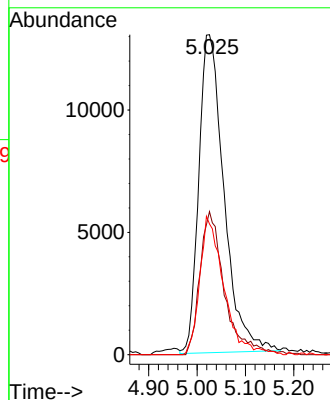
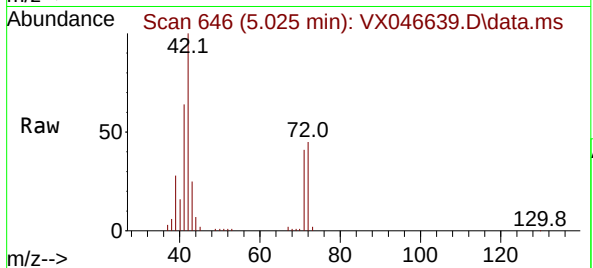
VX0611WBS02

Tgt Ion:	42	Resp:	4705
Ion	Ratio	Lower	Upper
42	100		
72	44.0	33.7	50.5
71	41.5	31.4	47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#30

Chloroform

Concen: 19.839 ug/l

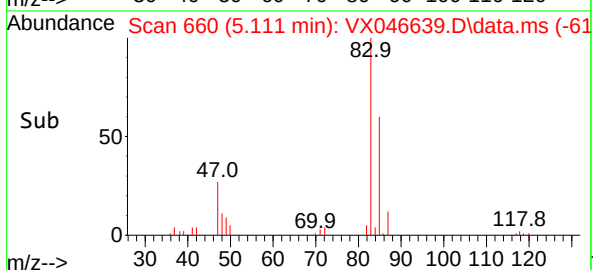
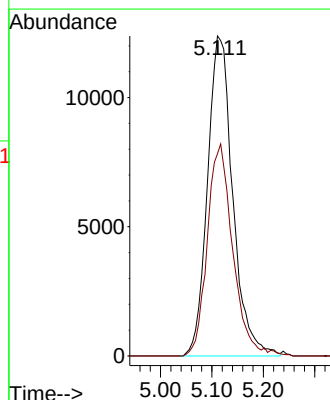
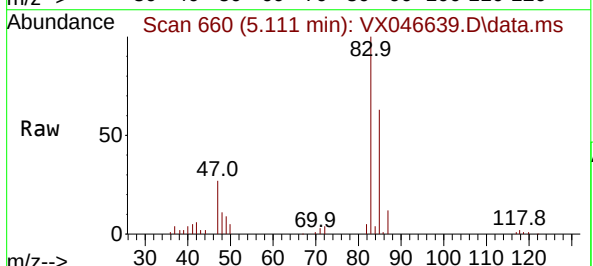
RT: 5.111 min Scan# 660

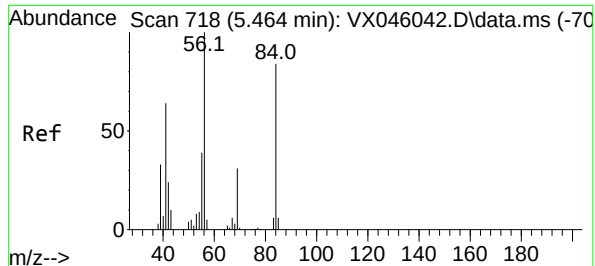
Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Tgt Ion:	83	Resp:	42286
Ion	Ratio	Lower	Upper
83	100		
85	63.2	49.3	73.9





#31

Cyclohexane

Concen: 18.562 ug/l

RT: 5.489 min Scan# 718

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 56 Resp: 3048

Ion Ratio Lower Upper

56 100

69 31.1 24.4 36.6

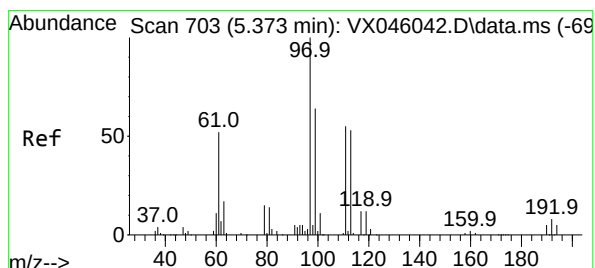
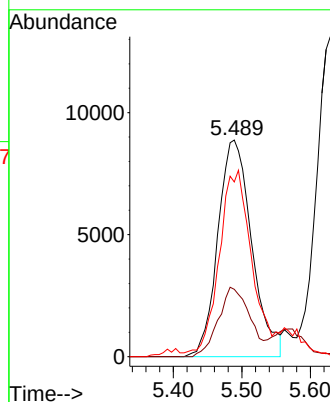
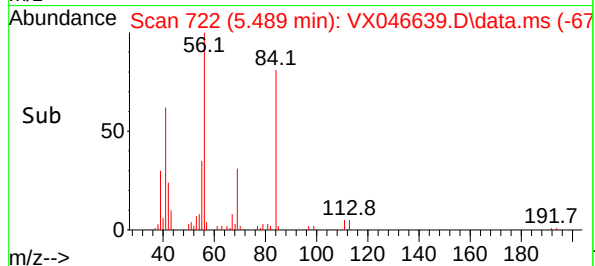
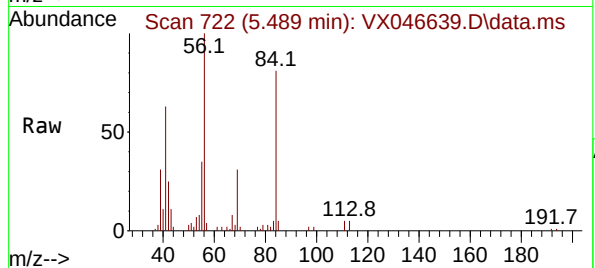
84 78.9 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#32

1,1,1-Trichloroethane

Concen: 19.725 ug/l

RT: 5.403 min Scan# 708

Delta R.T. 0.006 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

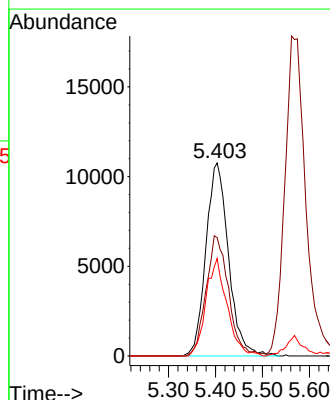
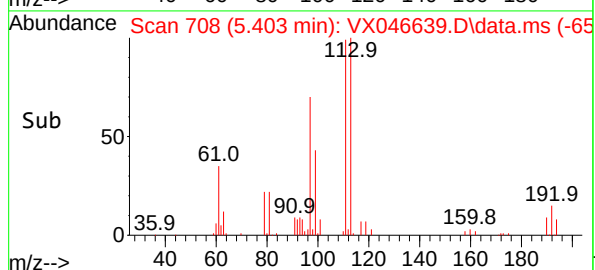
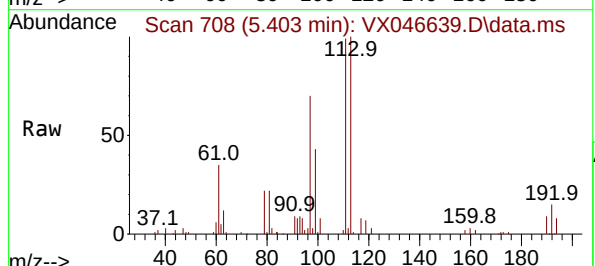
Tgt Ion: 97 Resp: 35963

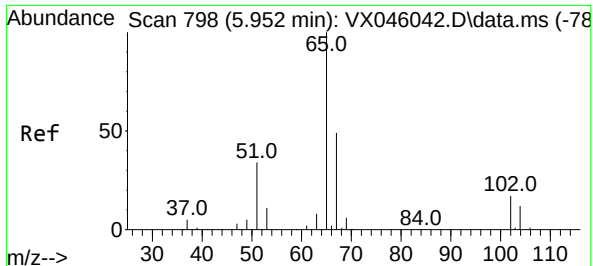
Ion Ratio Lower Upper

97 100

99 61.8 51.8 77.6

61 47.1 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 43.960 ug/l

RT: 5.970 min Scan# 801

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 65 Resp: 6209

Ion Ratio Lower Upper

65 100

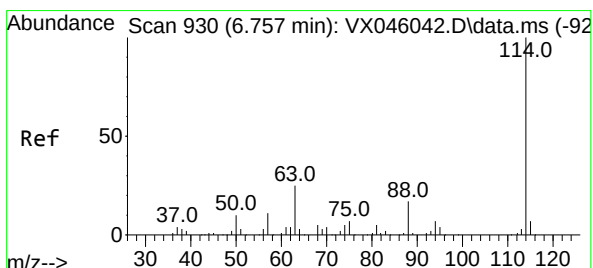
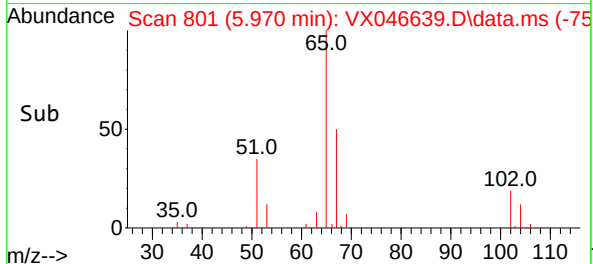
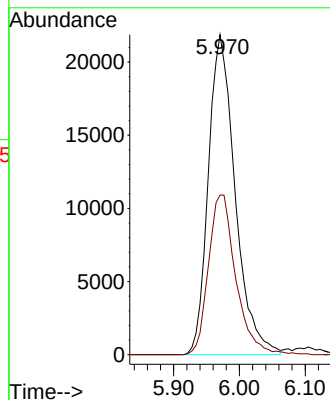
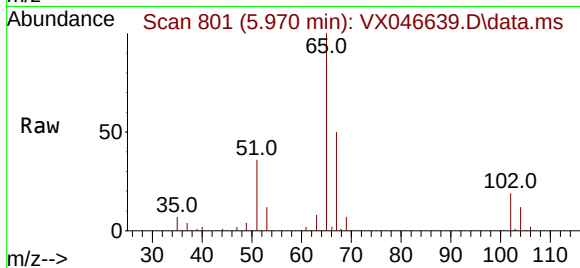
67 51.0 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.775 min Scan# 933

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

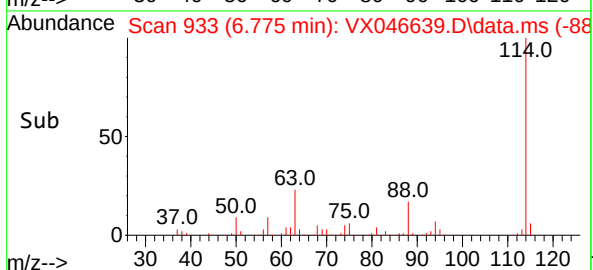
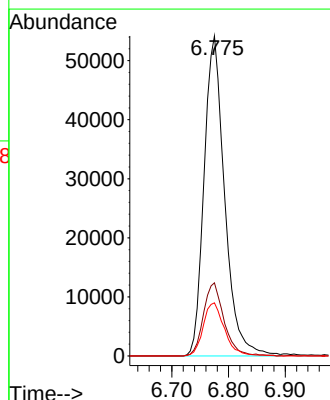
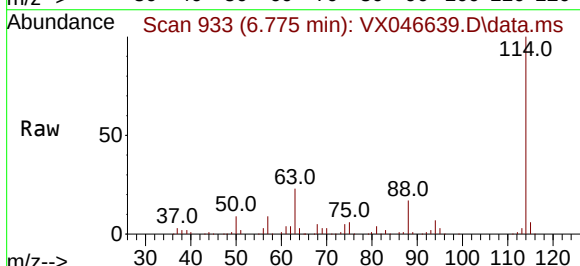
Tgt Ion:114 Resp: 136732

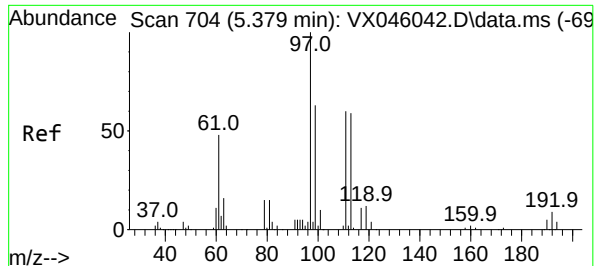
Ion Ratio Lower Upper

114 100

63 22.9 0.0 49.2

88 16.6 0.0 33.6





#35

Dibromofluoromethane

Concen: 47.797 ug/l

RT: 5.403 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion:113 Resp: 4806

Ion Ratio Lower Upper

113 100

111 102.2 83.1 124.7

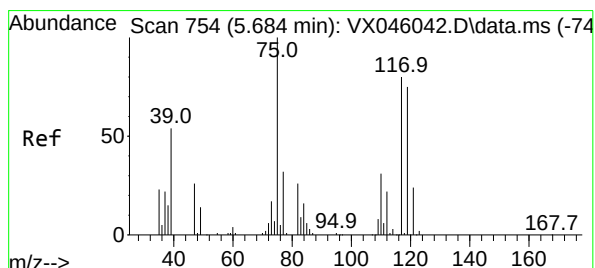
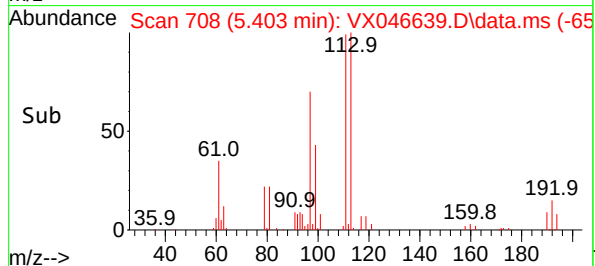
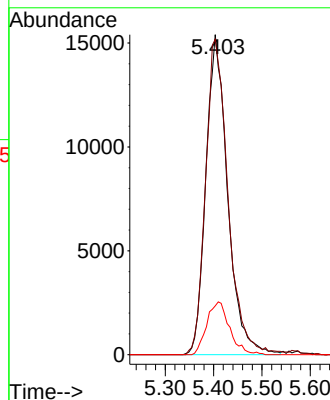
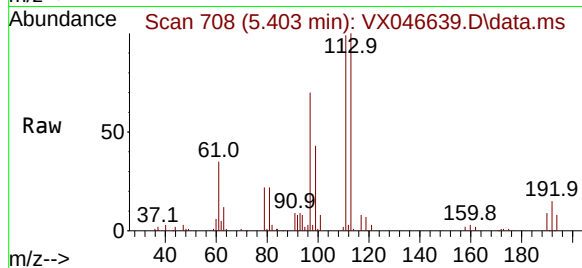
192 17.3 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#36

1,1-Dichloropropene

Concen: 18.210 ug/l

RT: 5.708 min Scan# 758

Delta R.T. -0.006 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

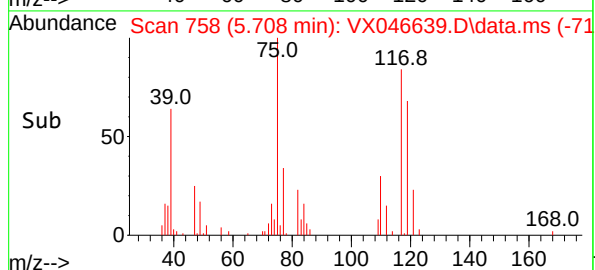
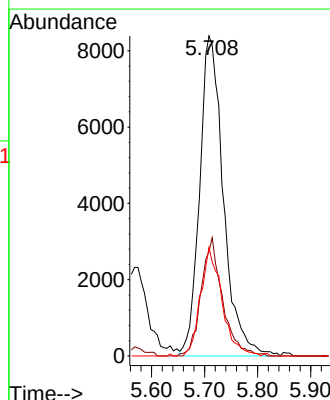
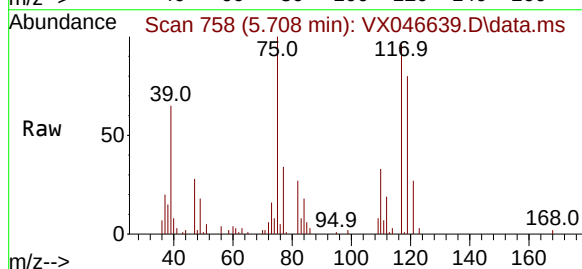
Tgt Ion: 75 Resp: 26155

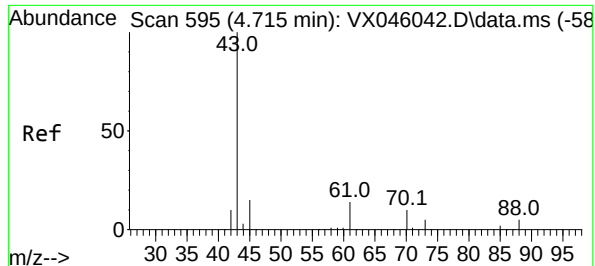
Ion Ratio Lower Upper

75 100

110 33.1 16.3 48.9

77 30.4 24.3 36.5





#37

Ethyl Acetate

Concen: 21.671 ug/l

RT: 4.733 min Scan# 595

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

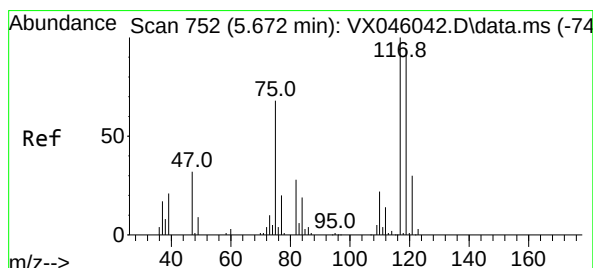
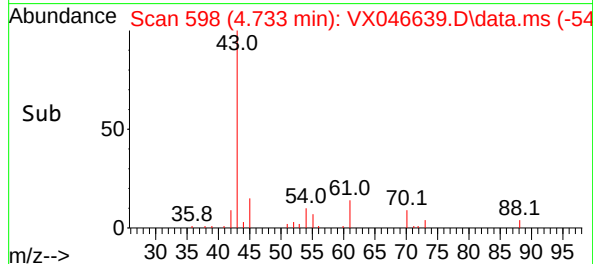
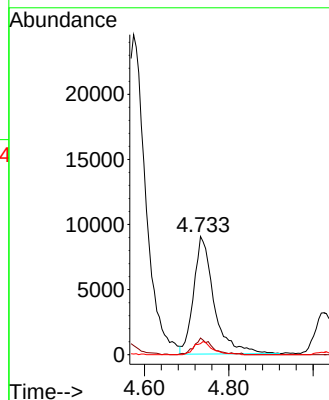
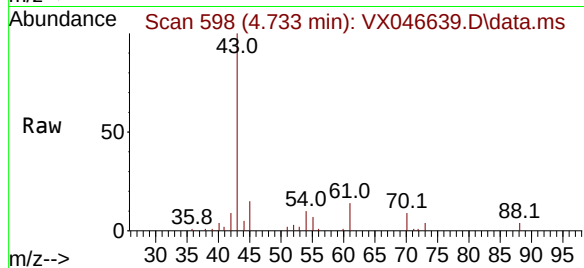
Tgt Ion: 43	Resp: 30379
Ion Ratio	Lower Upper
43 100	
61 12.5	10.3 15.5
70 9.9	7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#38

Carbon Tetrachloride

Concen: 18.661 ug/l

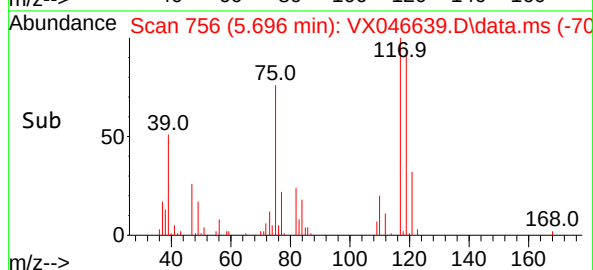
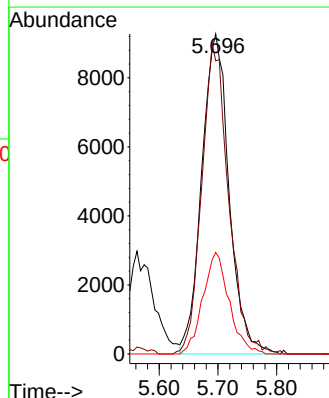
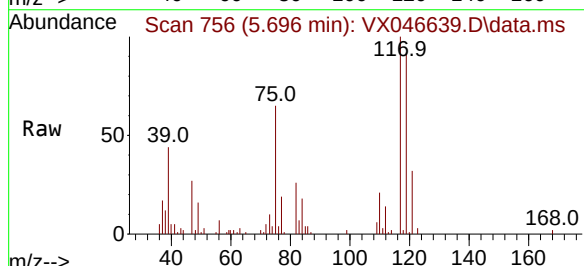
RT: 5.696 min Scan# 756

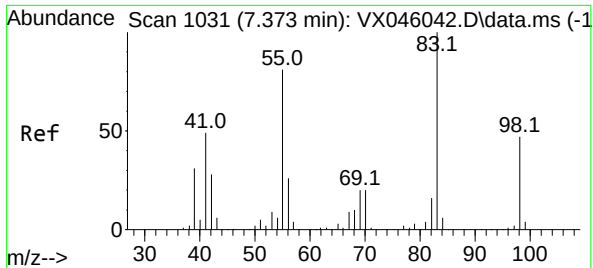
Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Tgt Ion: 117	Resp: 30021
Ion Ratio	Lower Upper
117 100	
119 90.6	75.2 112.8
121 31.7	24.2 36.4





#39

Methylcyclohexane

Concen: 17.554 ug/l

RT: 7.391 min Scan# 1034

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 83 Resp: 29760

Ion Ratio Lower Upper

83 100

55 88.2 64.7 97.1

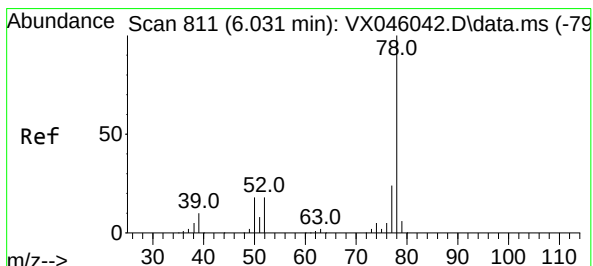
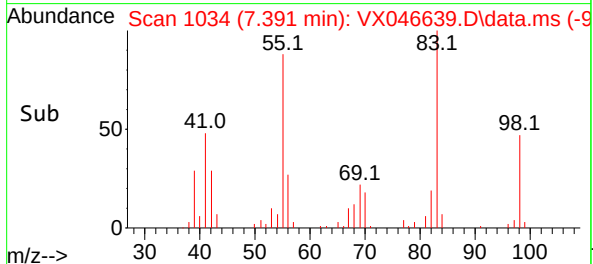
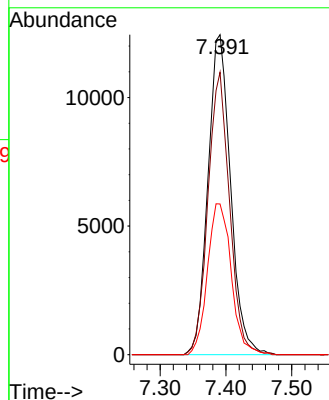
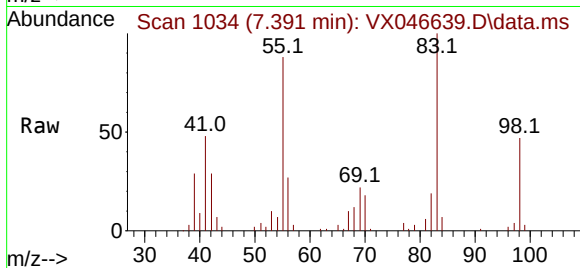
98 47.1 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#40

Benzene

Concen: 19.630 ug/l

RT: 6.056 min Scan# 815

Delta R.T. -0.000 min

Lab File: VX046639.D

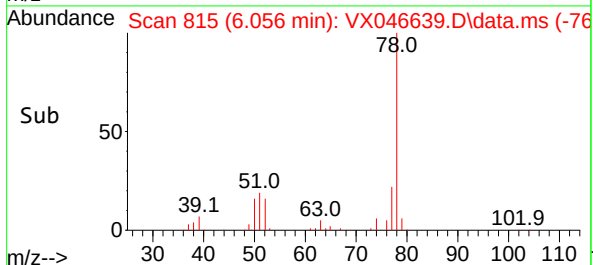
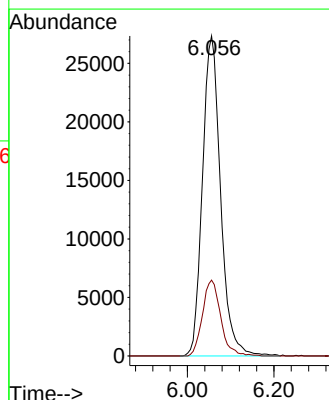
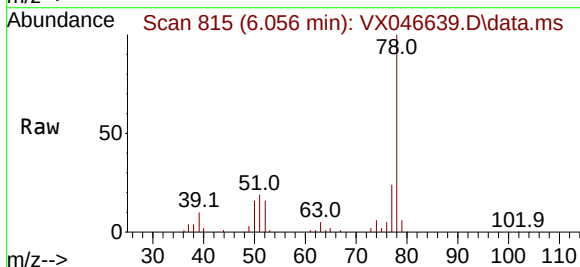
Acq: 11 Jun 2025 15:58

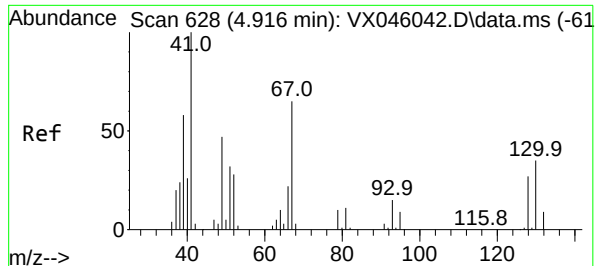
Tgt Ion: 78 Resp: 79373

Ion Ratio Lower Upper

78 100

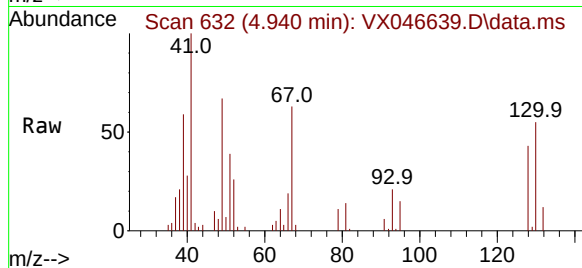
77 23.7 19.0 28.4





#41
Methacrylonitrile
Concen: 18.672 ug/l
RT: 4.940 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

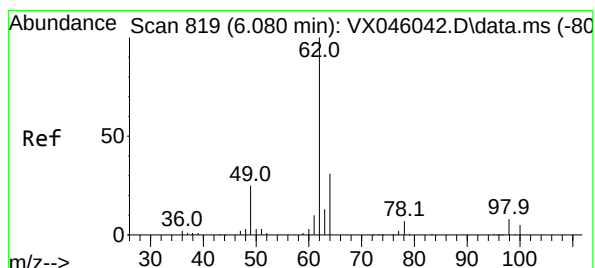
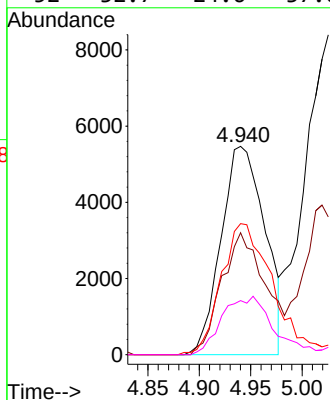
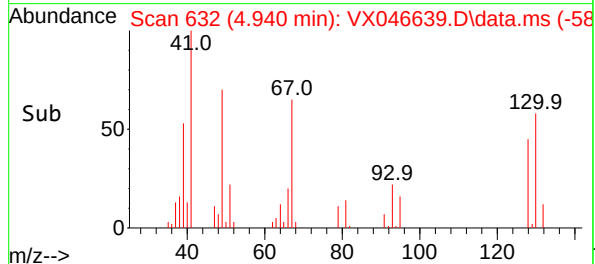
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



Tgt Ion: 41 Resp: 16254
Ion Ratio Lower Upper
41 100
39 59.3 47.2 70.8
67 76.1 50.7 76.1
52 32.7 24.6 37.0

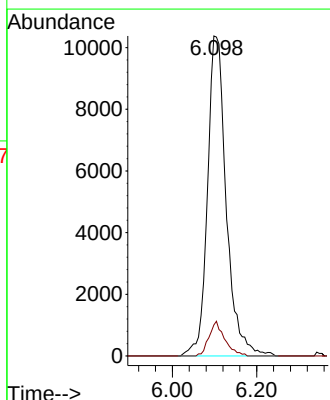
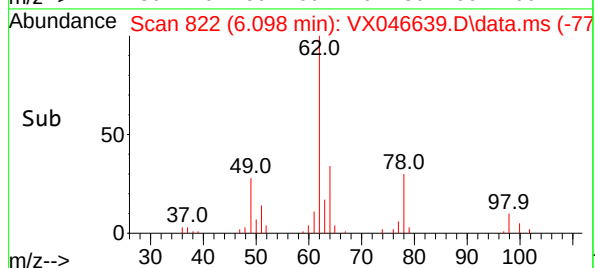
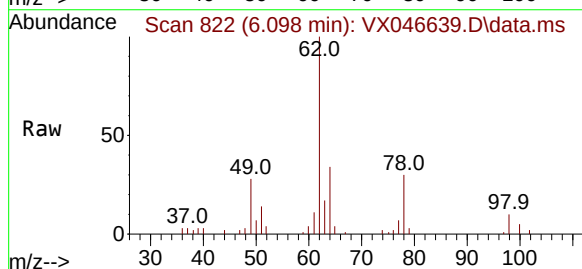
Manual Integrations
APPROVED

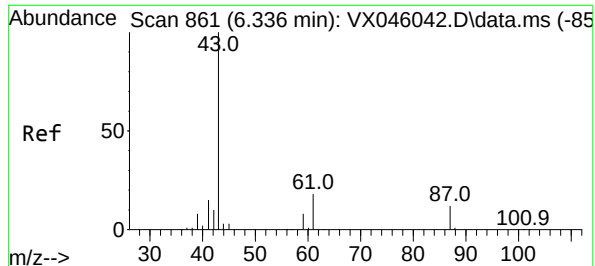
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#42
1,2-Dichloroethane
Concen: 19.112 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion: 62 Resp: 32150
Ion Ratio Lower Upper
62 100
98 9.1 0.0 15.2





#43

Isopropyl Acetate

Concen: 19.720 ug/l

RT: 6.354 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

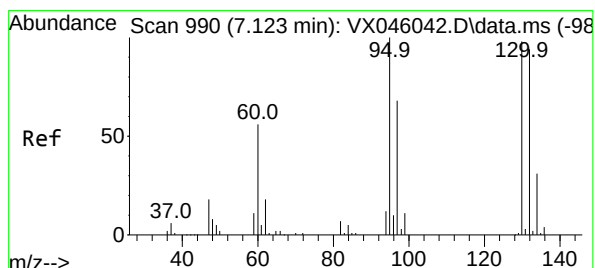
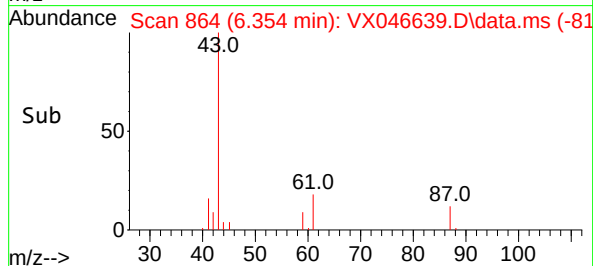
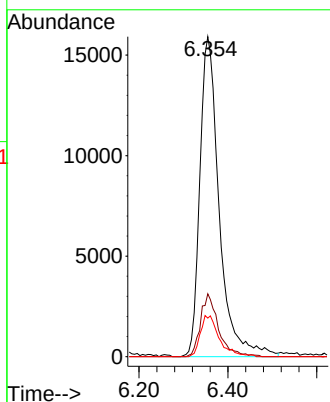
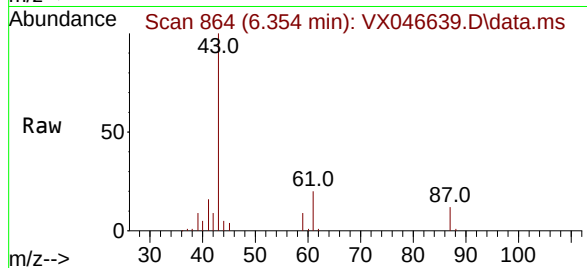
VX0611WBS02

Tgt Ion:	43	Resp:	48194
Ion	Ratio	Lower	Upper
43	100		
61	18.3	14.3	21.5
87	12.6	9.5	14.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#44

Trichloroethene

Concen: 19.160 ug/l

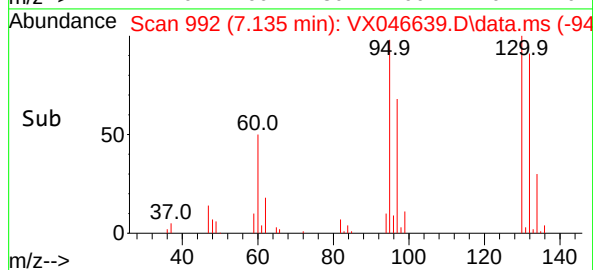
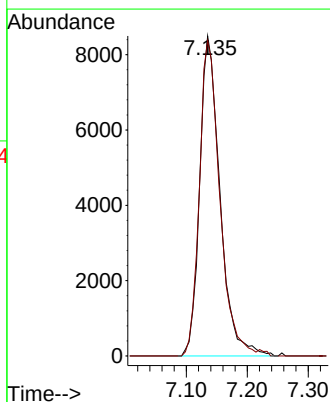
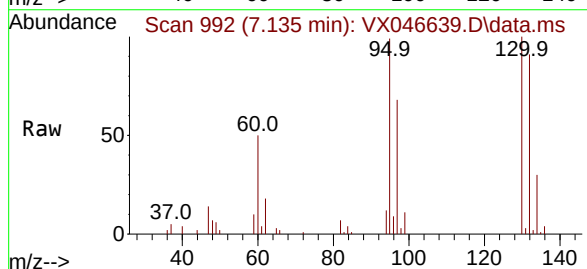
RT: 7.135 min Scan# 992

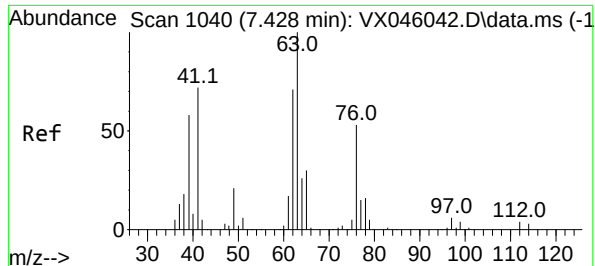
Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Tgt Ion:	130	Resp:	19685
Ion	Ratio	Lower	Upper
130	100		
95	98.6	0.0	204.2





#45

1,2-Dichloropropane

Concen: 20.731 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. -0.006 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 63 Resp: 2163

Ion Ratio Lower Upper

63 100

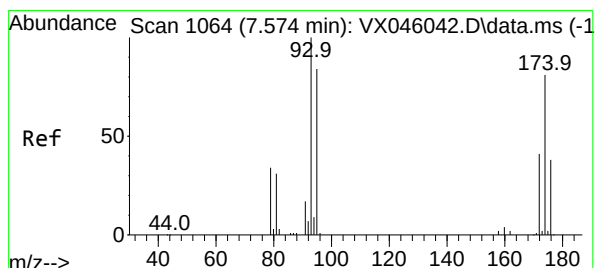
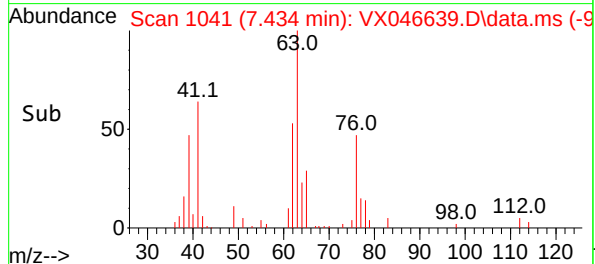
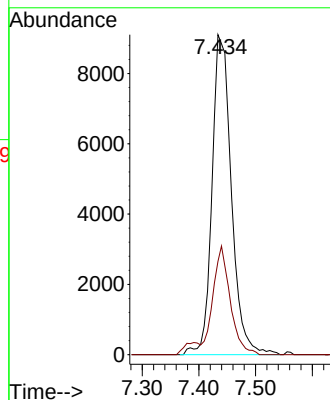
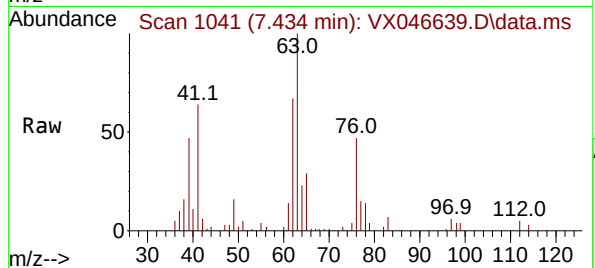
65 29.1 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#46

Dibromomethane

Concen: 19.851 ug/l

RT: 7.592 min Scan# 1067

Delta R.T. 0.006 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

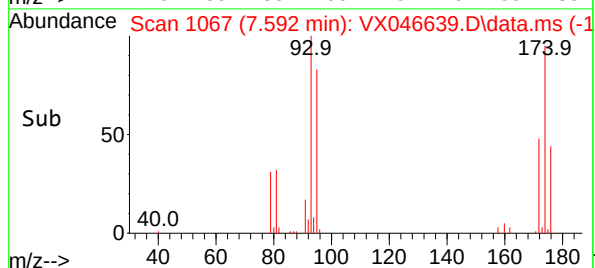
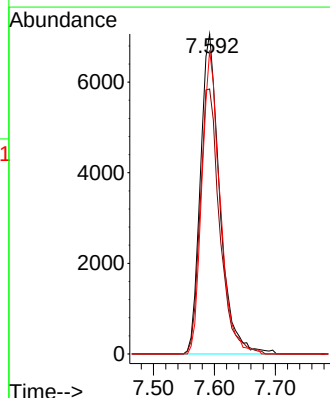
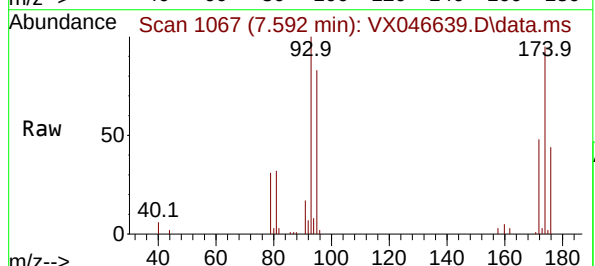
Tgt Ion: 93 Resp: 15586

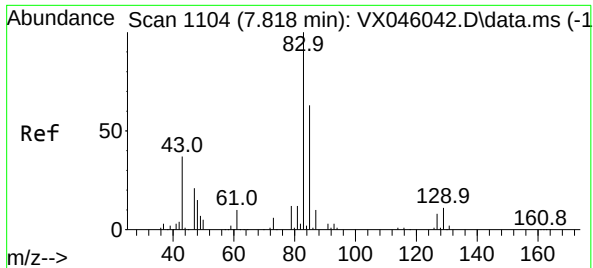
Ion Ratio Lower Upper

93 100

95 83.9 65.6 98.4

174 88.7 68.2 102.2





#47

Bromodichloromethane

Concen: 20.608 ug/l

RT: 7.830 min Scan# 1106

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

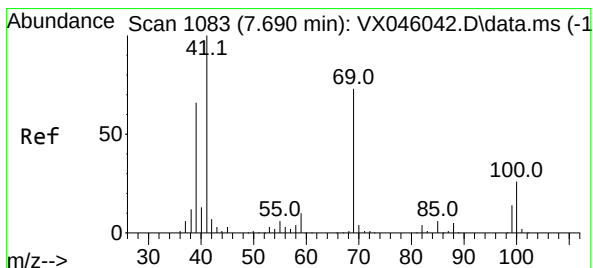
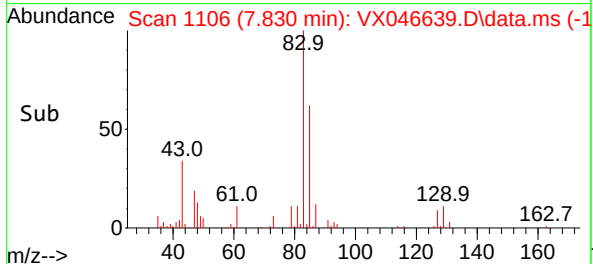
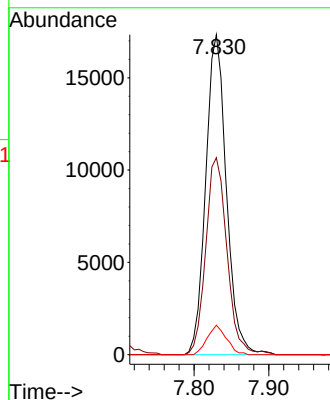
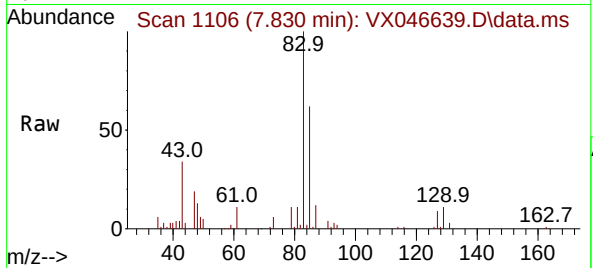
Tgt Ion:	83	Resp:	33270
Ion	Ratio	Lower	Upper
83	100		
85	61.6	50.5	75.7
127	9.2	6.5	9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#48

Methyl methacrylate

Concen: 19.765 ug/l

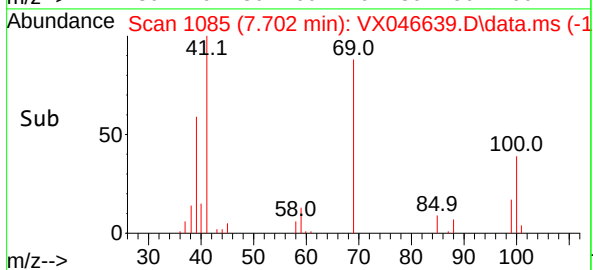
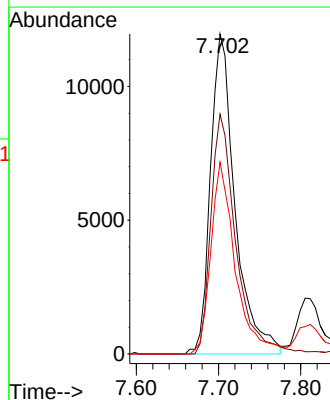
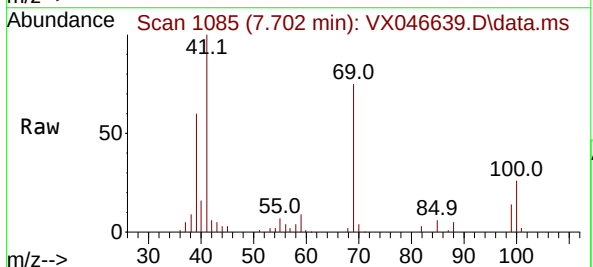
RT: 7.702 min Scan# 1085

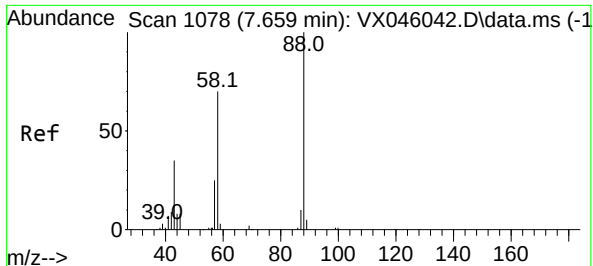
Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Tgt Ion:	41	Resp:	24852
Ion	Ratio	Lower	Upper
41	100		
69	76.7	58.5	87.7
39	59.6	51.7	77.5





#49

1,4-Dioxane

Concen: 379.544 ug/l

RT: 7.671 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

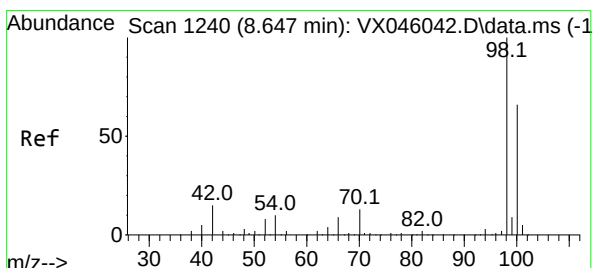
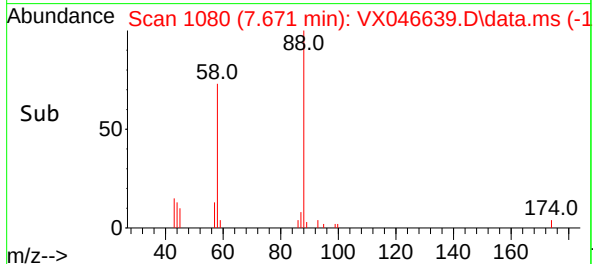
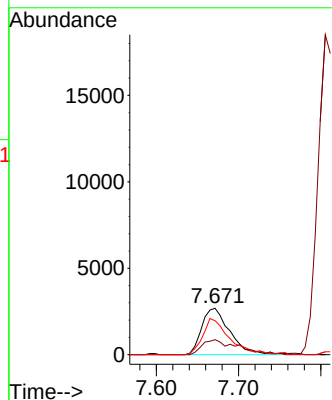
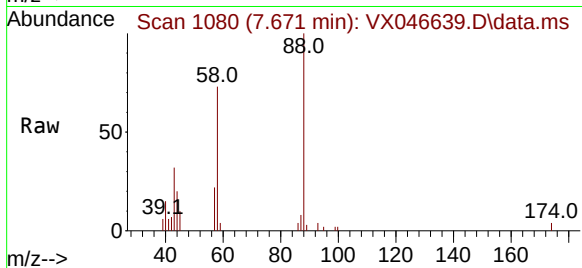
VX0611WBS02

Tgt Ion:	88	Resp:	638
Ion Ratio	Lower	Upper	
88	100		
43	40.8	33.4	50.2
58	73.6	58.6	88.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#50

Toluene-d8

Concen: 47.195 ug/l

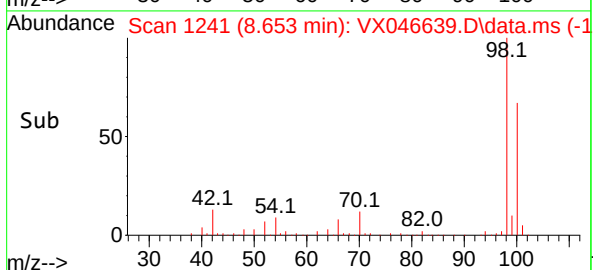
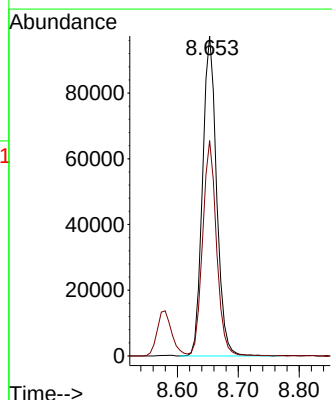
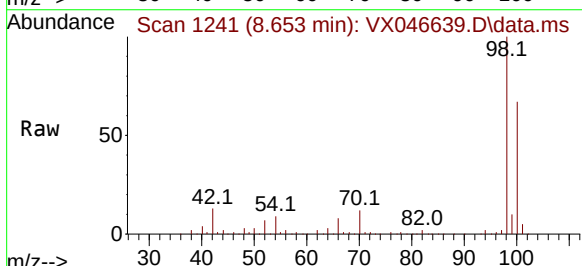
RT: 8.653 min Scan# 1241

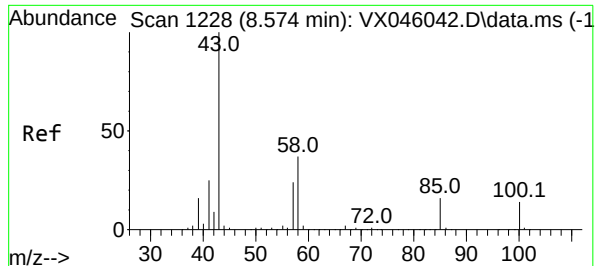
Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Tgt Ion:	98	Resp:	156454
Ion Ratio	Lower	Upper	
98	100		
100	66.7	53.5	80.3





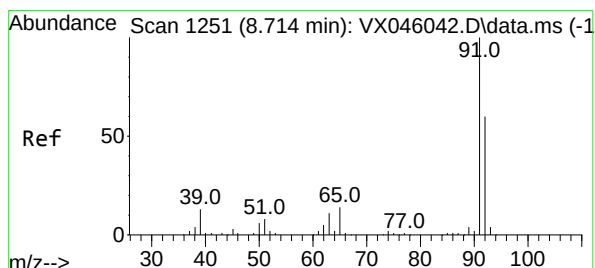
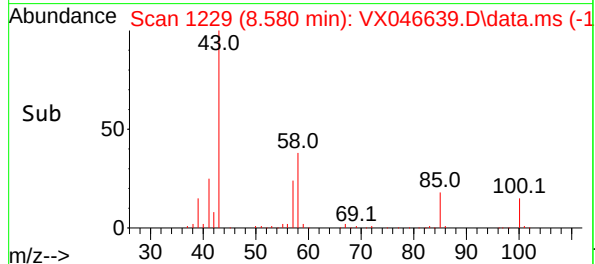
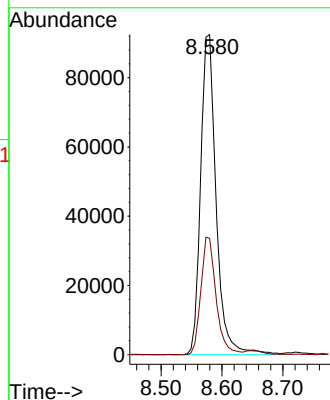
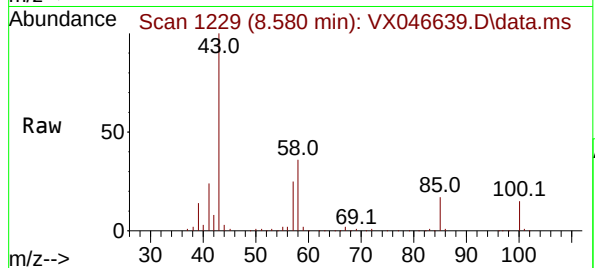
#51
4-Methyl-2-Pentanone
Concen: 105.244 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.007 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion: 43 Resp: 16344
Ion Ratio Lower Upper
43 100
58 36.1 28.9 43.3

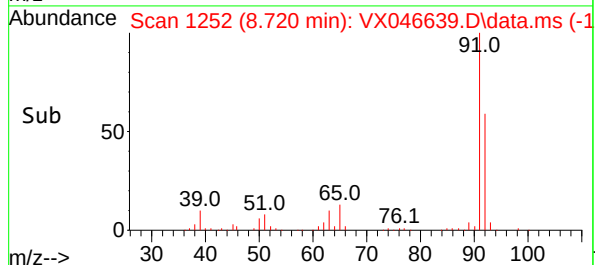
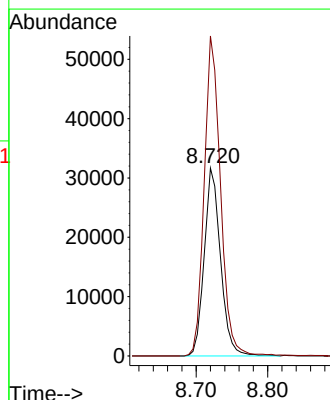
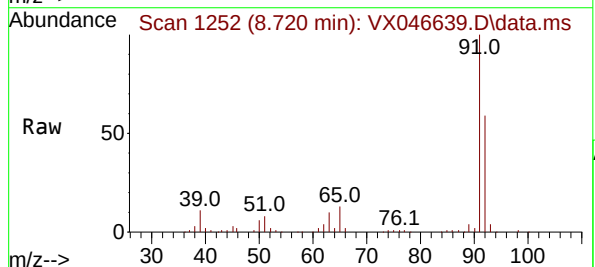
Manual Integrations
APPROVED

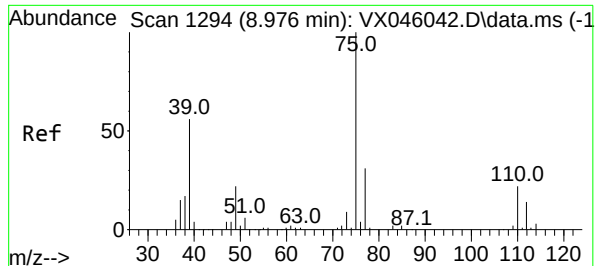
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#52
Toluene
Concen: 20.210 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion: 92 Resp: 50204
Ion Ratio Lower Upper
92 100
91 170.8 136.6 205.0





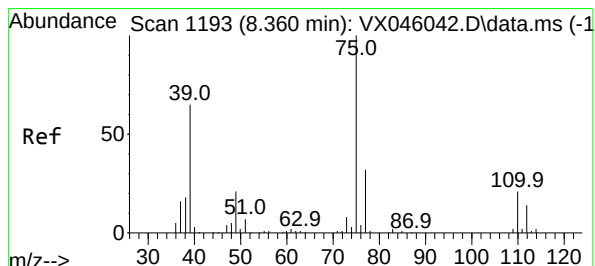
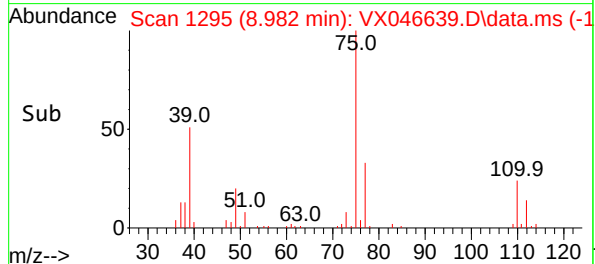
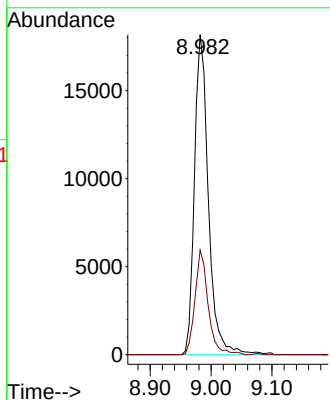
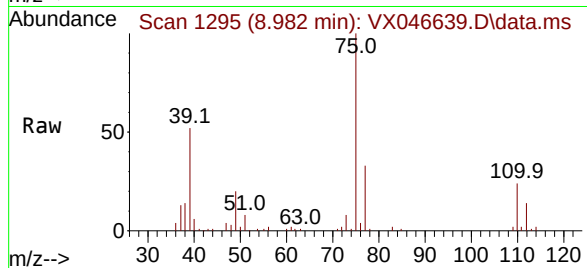
#53
t-1,3-Dichloropropene
Concen: 19.980 ug/l
RT: 8.982 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion: 75 Resp: 2892
Ion Ratio Lower Upper
75 100
77 32.7 25.0 37.6

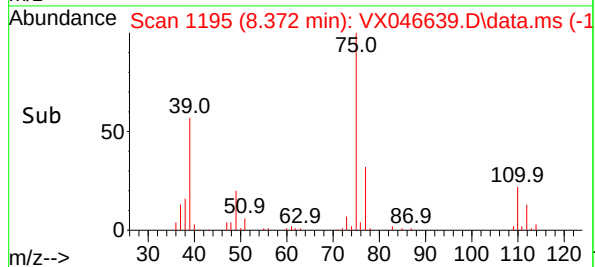
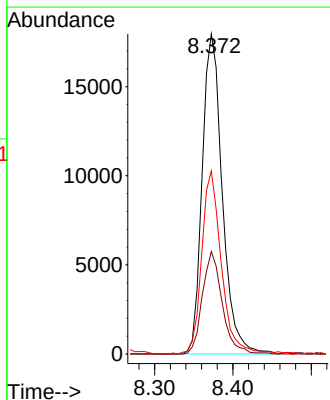
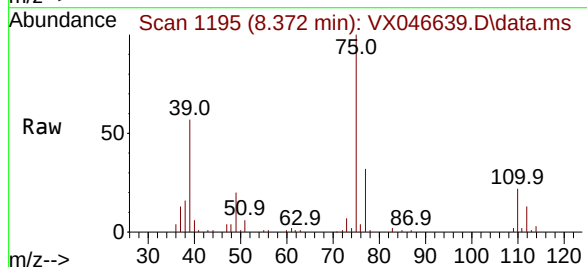
Manual Integrations
APPROVED

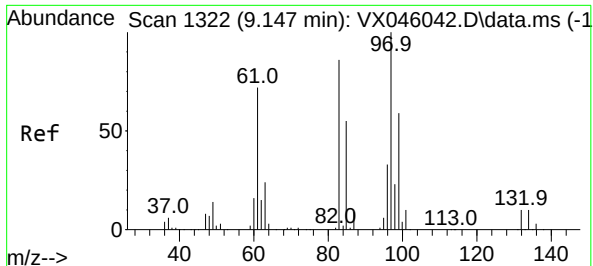
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#54
cis-1,3-Dichloropropene
Concen: 19.887 ug/l
RT: 8.372 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion: 75 Resp: 32006
Ion Ratio Lower Upper
75 100
77 32.0 25.4 38.0
39 57.2 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 21.763 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 97 Resp: 2170

Ion Ratio Lower Upper

97 100

83 83.8 69.0 103.6

85 53.5 44.3 66.5

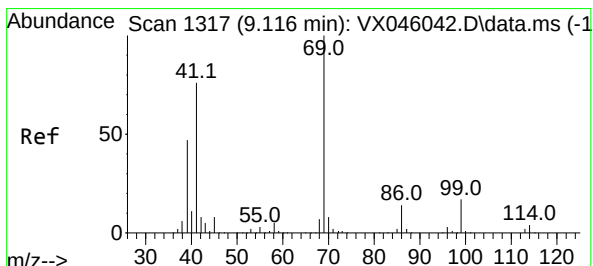
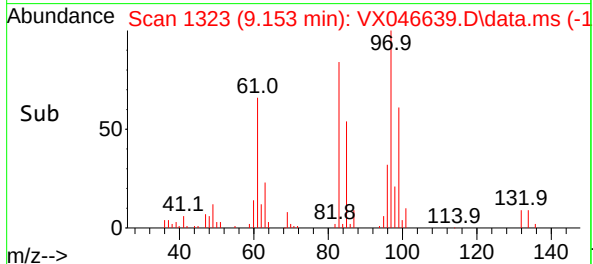
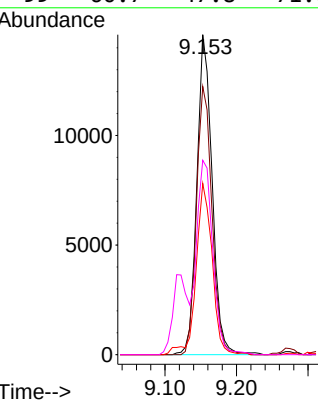
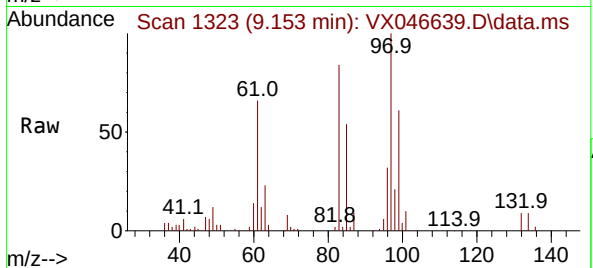
99 60.7 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#56

Ethyl methacrylate

Concen: 20.532 ug/l

RT: 9.122 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

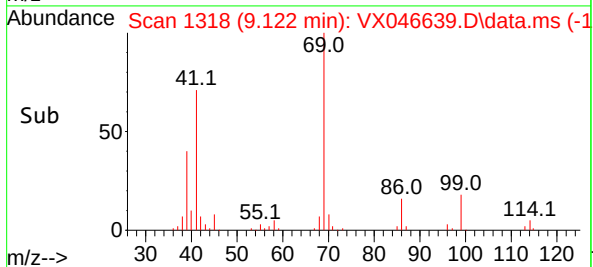
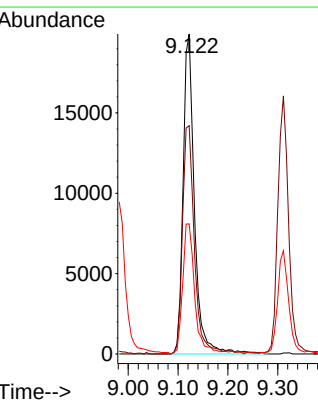
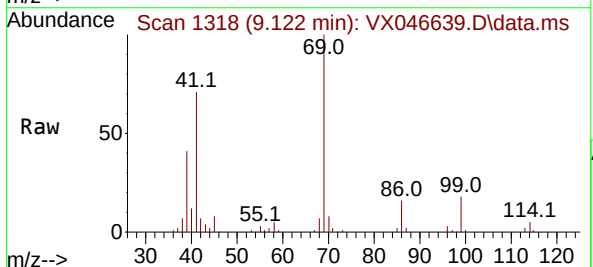
Tgt Ion: 69 Resp: 31509

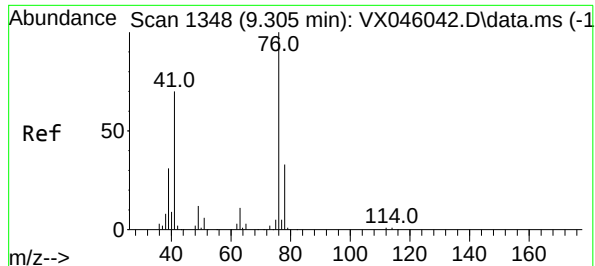
Ion Ratio Lower Upper

69 100

41 75.0 60.8 91.2

39 43.4 39.0 58.6





#57

1,3-Dichloropropane

Concen: 20.418 ug/l

RT: 9.311 min Scan# 1134

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 76 Resp: 3598

Ion Ratio Lower Upper

76 100

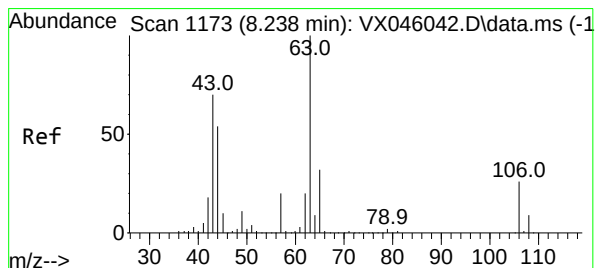
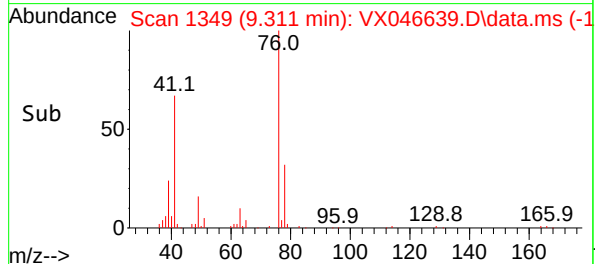
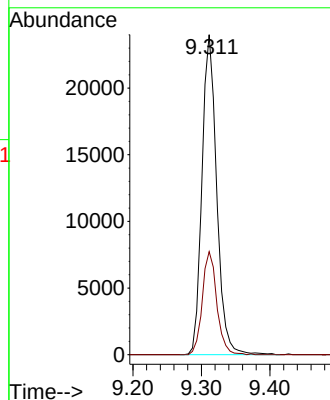
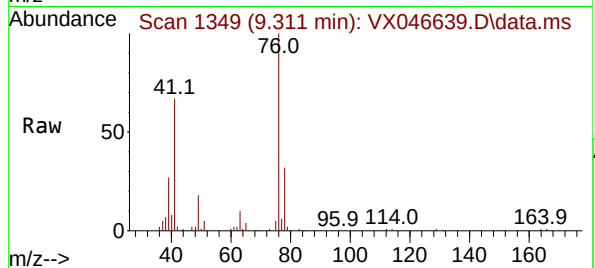
78 31.7 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#58

2-Chloroethyl Vinyl ether

Concen: 105.474 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046639.D

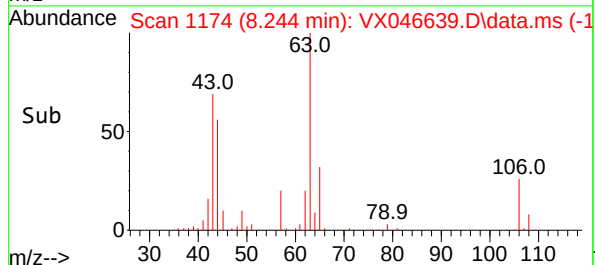
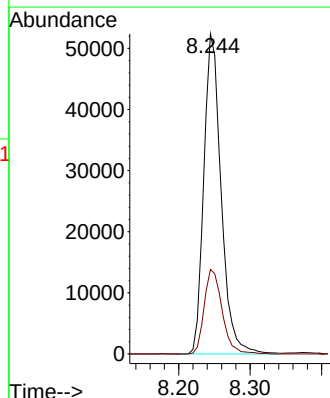
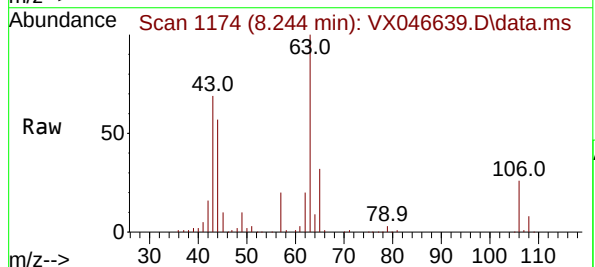
Acq: 11 Jun 2025 15:58

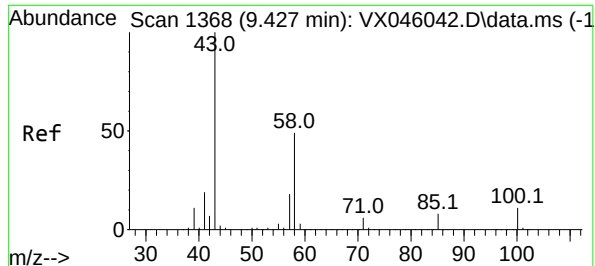
Tgt Ion: 63 Resp: 88166

Ion Ratio Lower Upper

63 100

106 27.3 21.5 32.3





#59

2-Hexanone

Concen: 103.306 ug/l

RT: 9.433 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 43 Resp: 115060

Ion Ratio Lower Upper

43 100

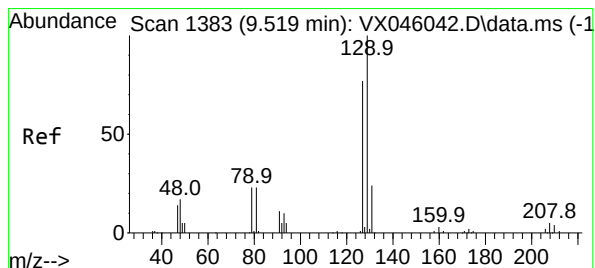
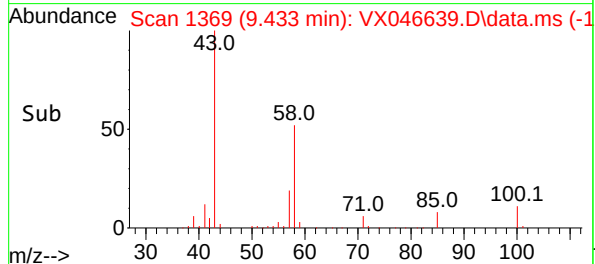
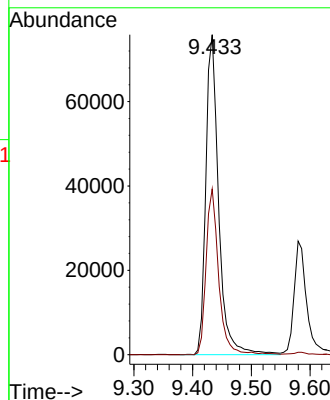
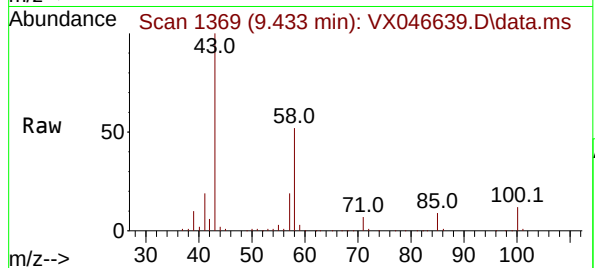
58 51.2 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#60

Dibromochloromethane

Concen: 20.516 ug/l

RT: 9.525 min Scan# 1384

Delta R.T. -0.000 min

Lab File: VX046639.D

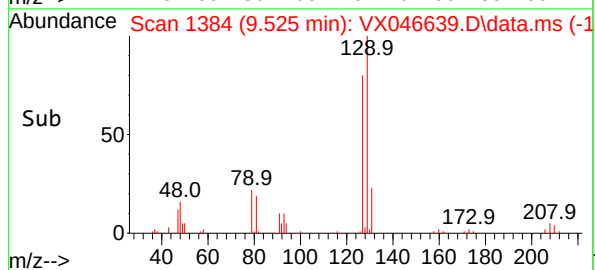
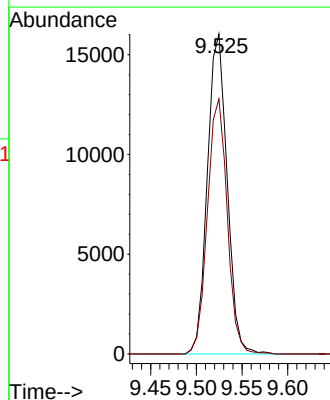
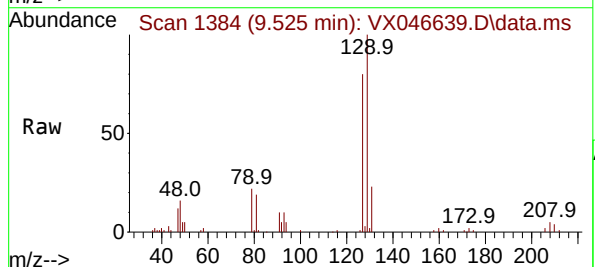
Acq: 11 Jun 2025 15:58

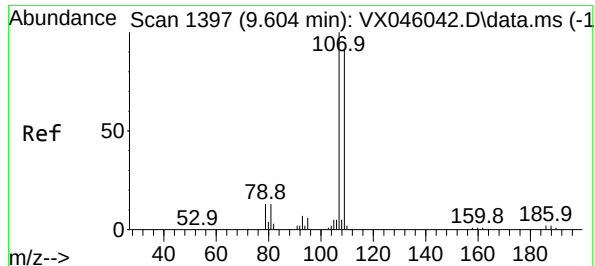
Tgt Ion:129 Resp: 24066

Ion Ratio Lower Upper

129 100

127 80.0 39.3 117.8





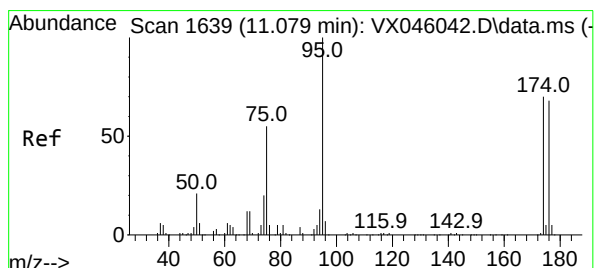
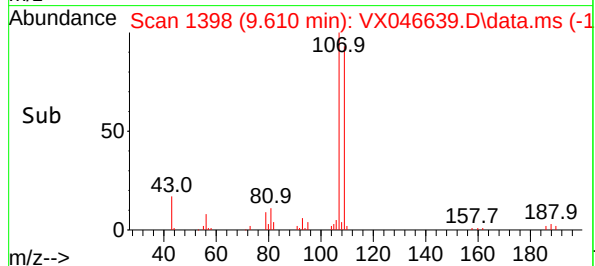
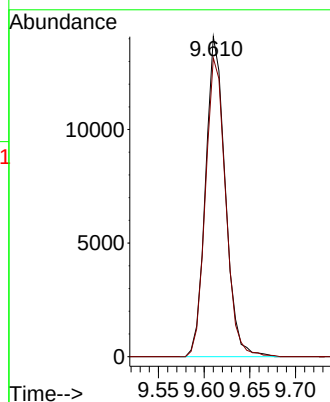
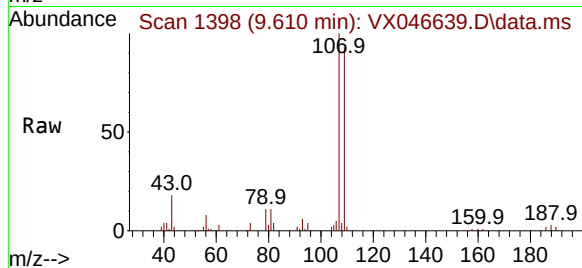
#61
1,2-Dibromoethane
Concen: 20.281 ug/l
RT: 9.610 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion:107 Resp: 21070
Ion Ratio Lower Upper
107 100
109 95.6 73.3 109.9

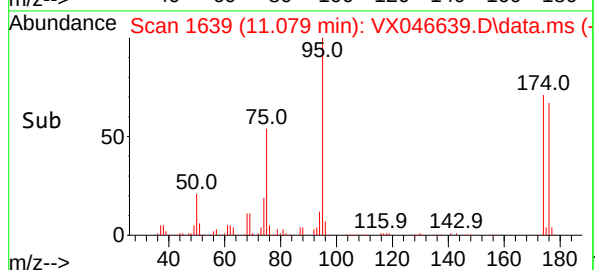
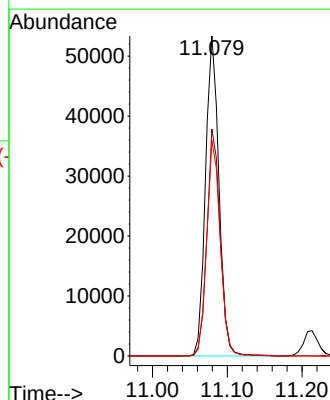
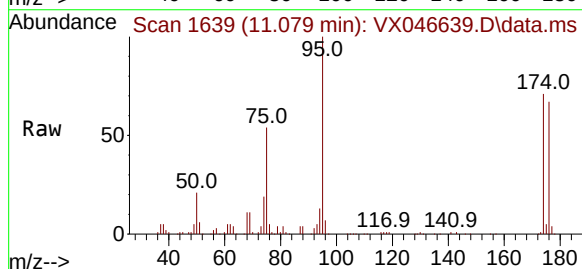
Manual Integrations
APPROVED

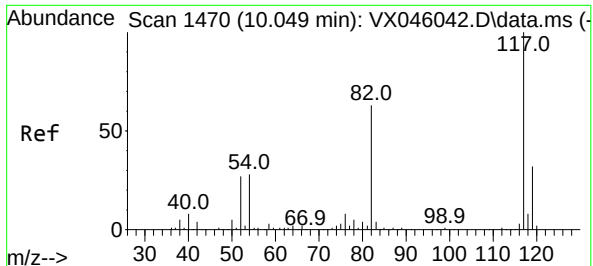
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#62
4-Bromofluorobenzene
Concen: 48.529 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion: 95 Resp: 66562
Ion Ratio Lower Upper
95 100
174 70.0 0.0 135.8
176 67.9 0.0 131.4





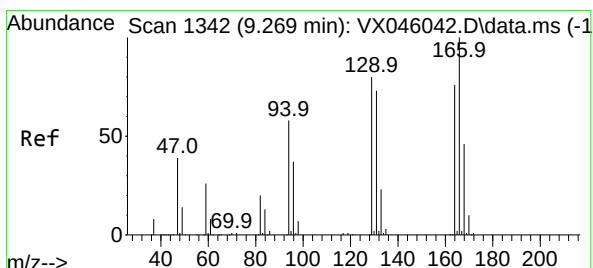
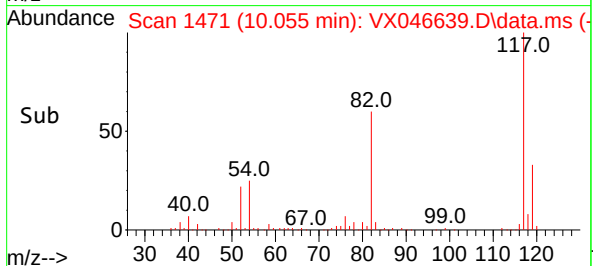
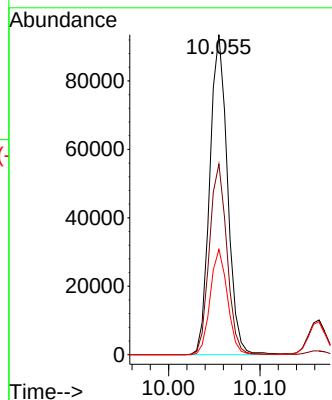
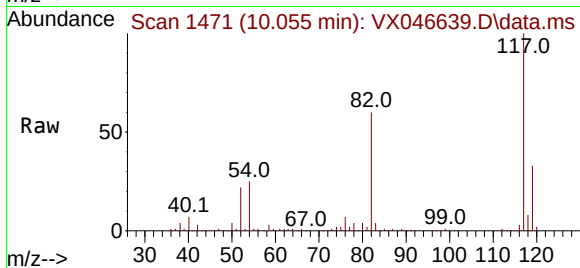
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion:117 Resp: 12556
Ion Ratio Lower Upper
117 100
82 59.6 50.6 76.0
119 32.9 25.8 38.6

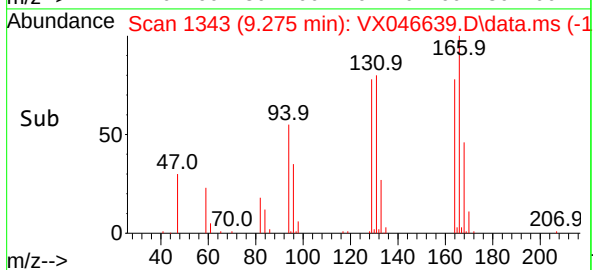
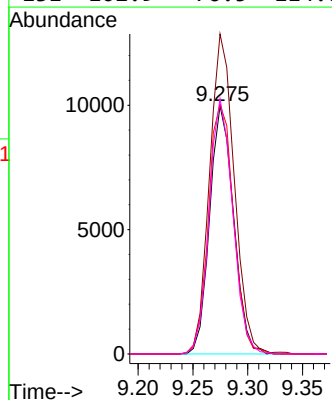
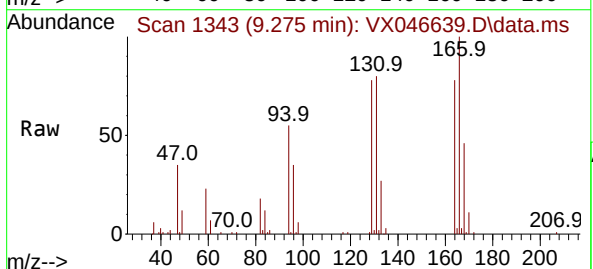
Manual Integrations
APPROVED

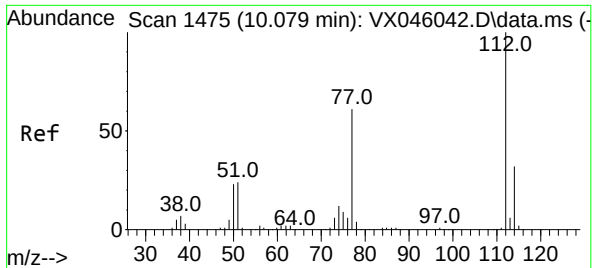
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#64
Tetrachloroethene
Concen: 18.025 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion:164 Resp: 15135
Ion Ratio Lower Upper
164 100
166 129.0 105.0 157.6
129 100.6 83.5 125.3
131 102.9 76.5 114.7





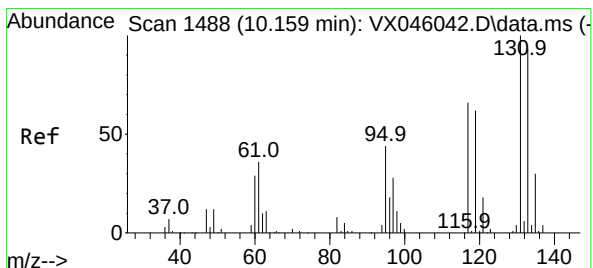
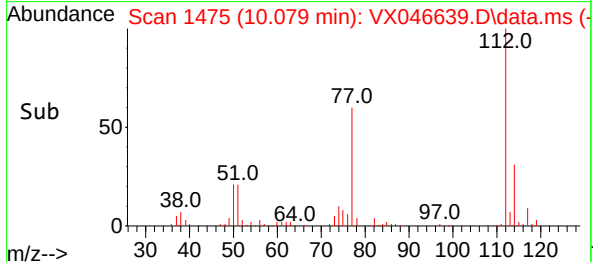
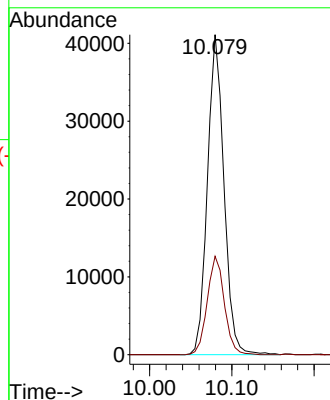
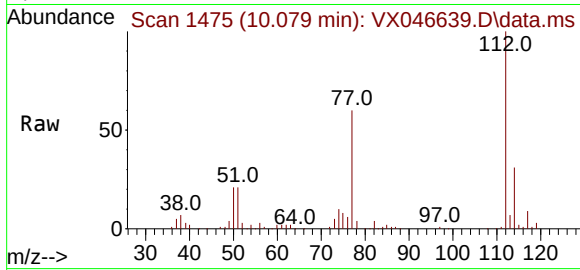
#65
Chlorobenzene
Concen: 19.415 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion:112 Resp: 57339
Ion Ratio Lower Upper
112 100
114 30.7 25.4 38.2

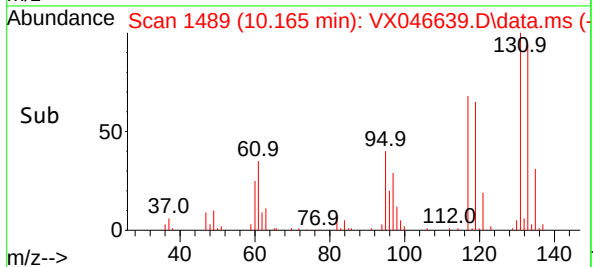
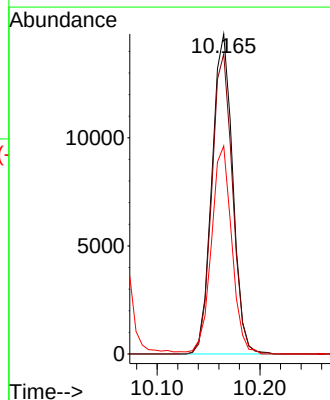
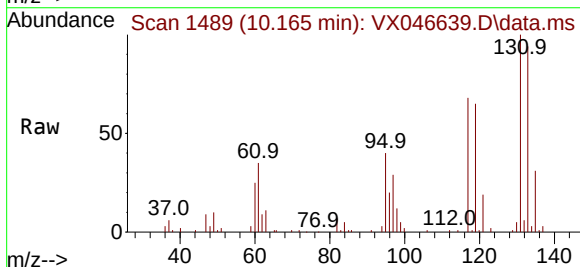
Manual Integrations
APPROVED

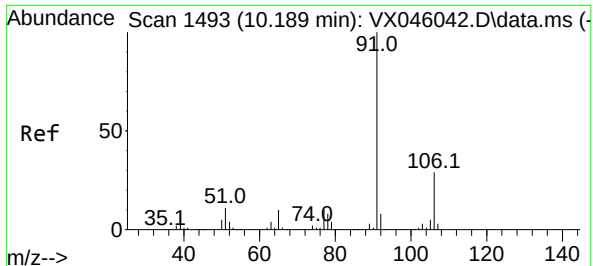
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 20.772 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion:131 Resp: 20729
Ion Ratio Lower Upper
131 100
133 93.8 47.3 141.9
119 63.7 31.6 95.0





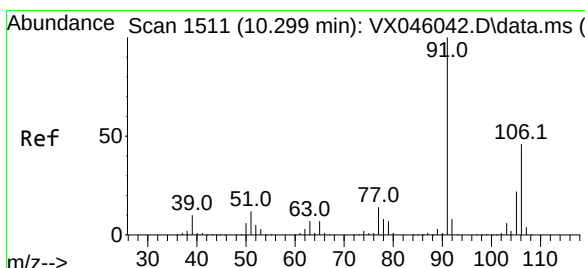
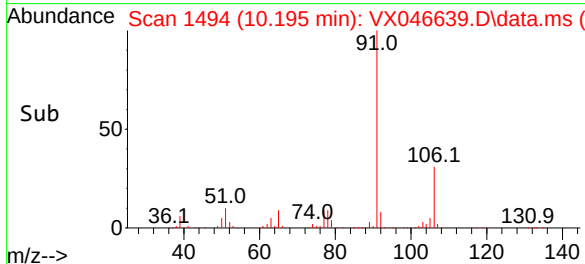
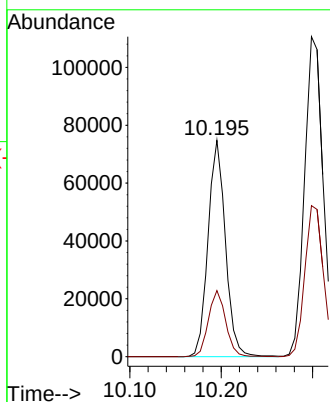
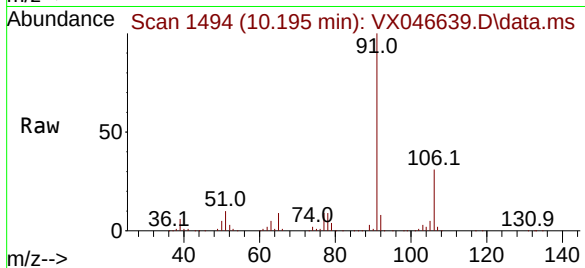
#67
Ethyl Benzene
Concen: 19.208 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion: 91 Resp: 99024
Ion Ratio Lower Upper
91 100
106 30.5 23.4 35.2

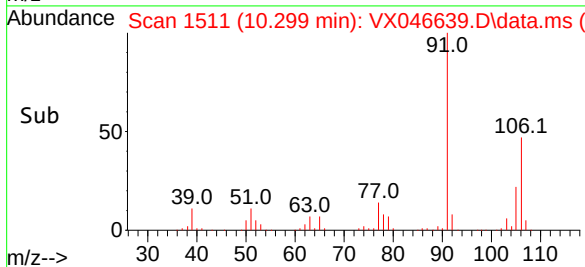
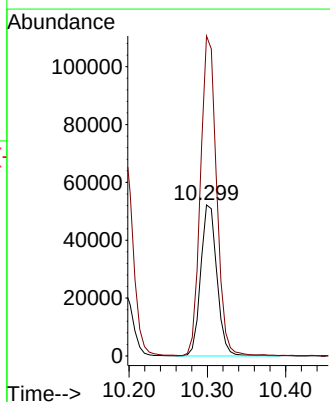
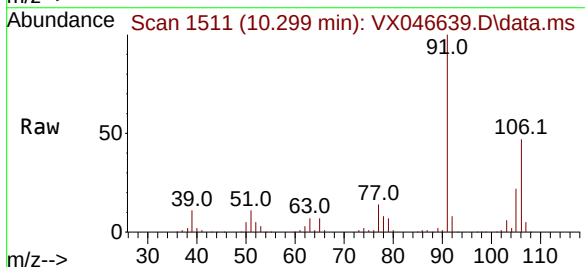
Manual Integrations
APPROVED

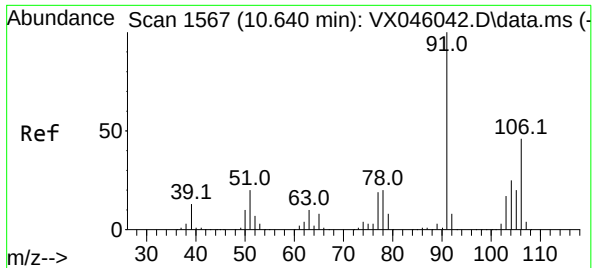
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#68
m/p-Xylenes
Concen: 40.080 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion:106 Resp: 74956
Ion Ratio Lower Upper
106 100
91 210.1 171.2 256.8





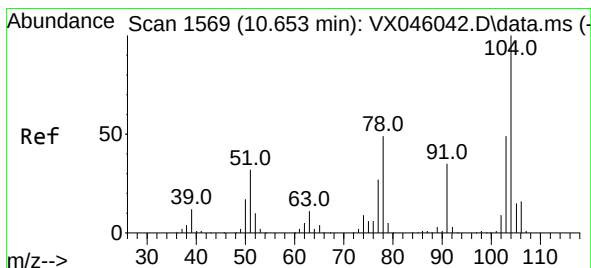
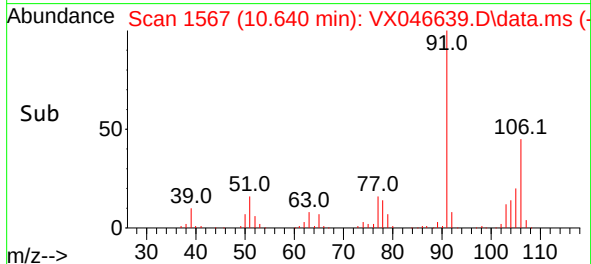
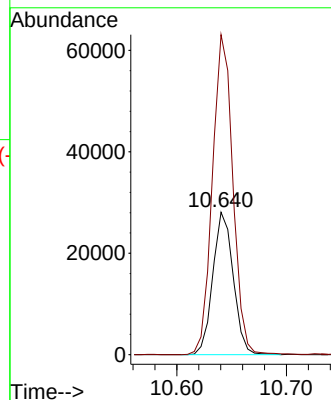
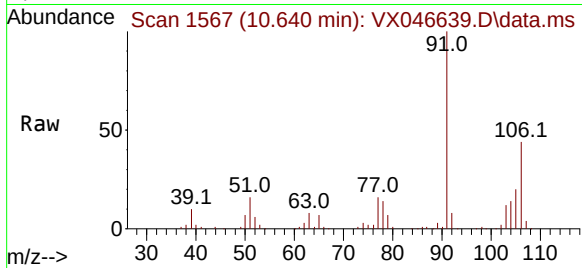
#69
o-Xylene
Concen: 20.130 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion:106 Resp: 3641
Ion Ratio Lower Upper
106 100
91 225.1 112.7 338.1

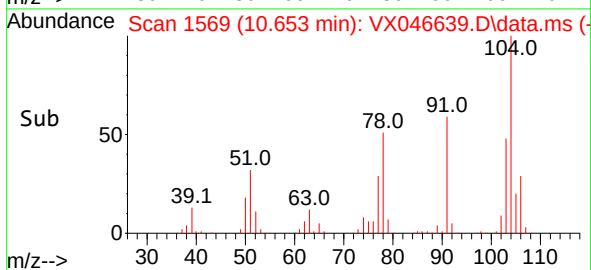
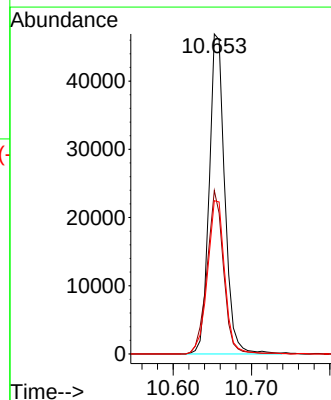
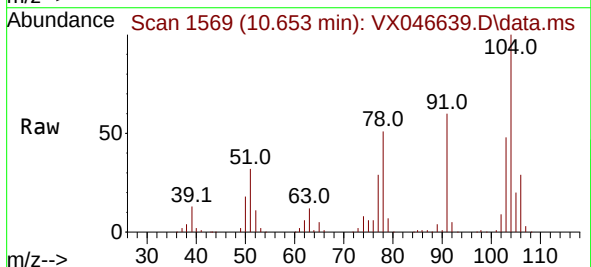
Manual Integrations
APPROVED

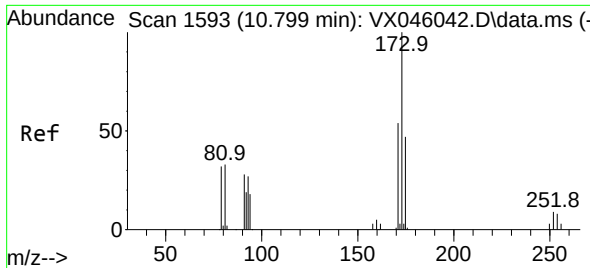
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#70
Styrene
Concen: 20.944 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.005 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

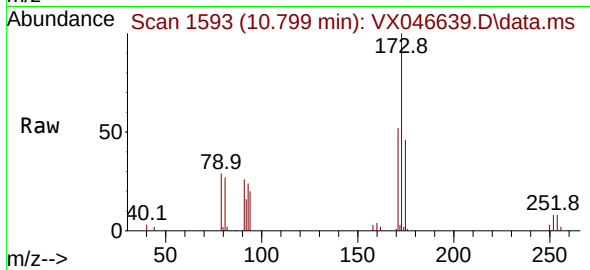
Tgt Ion:104 Resp: 64851
Ion Ratio Lower Upper
104 100
78 53.8 45.7 68.5
103 52.9 43.7 65.5





#71
Bromoform
Concen: 20.783 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

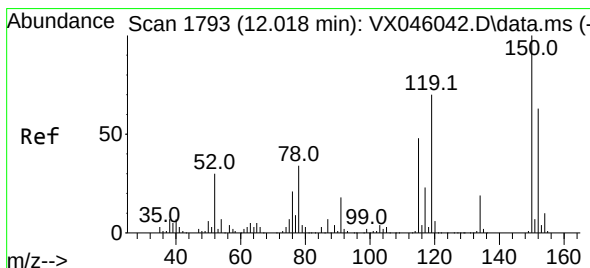
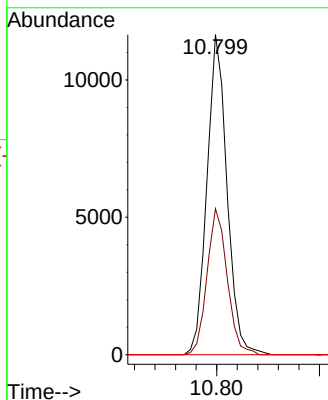
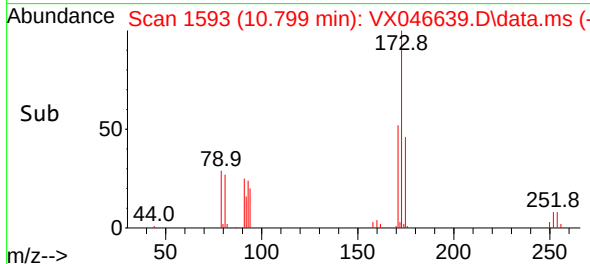
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



Tgt Ion:173 Resp: 15814
Ion Ratio Lower Upper
173 100
175 45.9 23.4 70.0
254 0.0 0.0 0.0

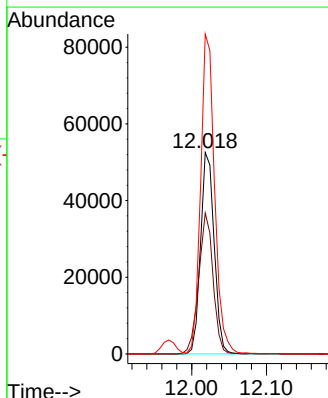
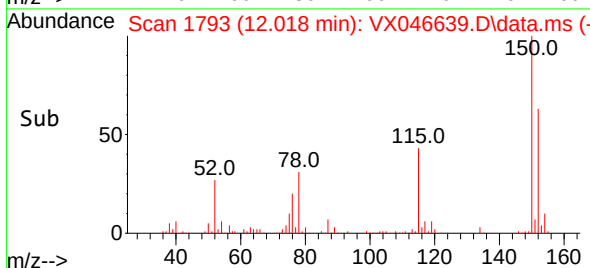
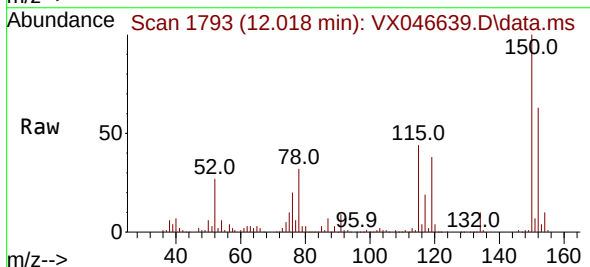
Manual Integrations
APPROVED

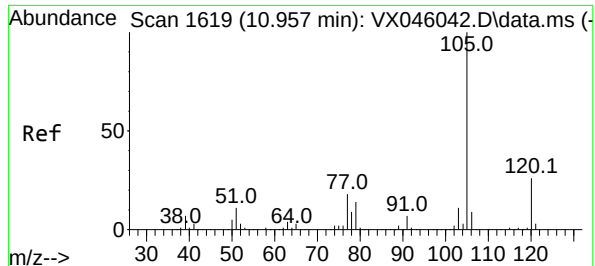
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion:152 Resp: 66542
Ion Ratio Lower Upper
152 100
115 73.6 46.9 140.7
150 162.6 0.0 351.0





#73

Isopropylbenzene

Concen: 19.062 ug/l

RT: 10.963 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion:105 Resp: 99709

Ion Ratio Lower Upper

105 100

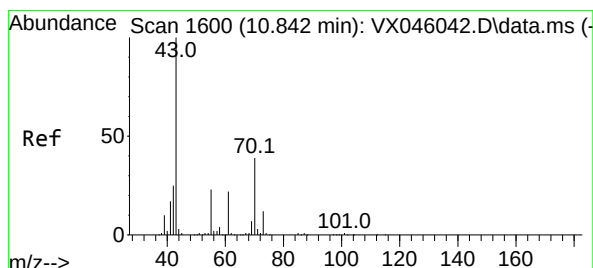
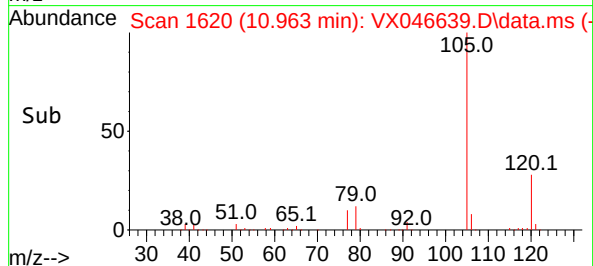
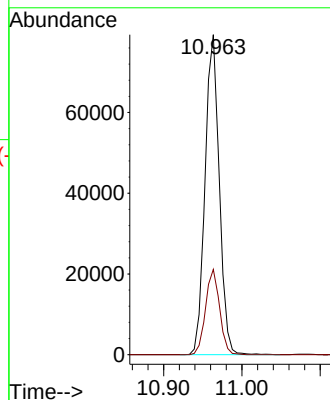
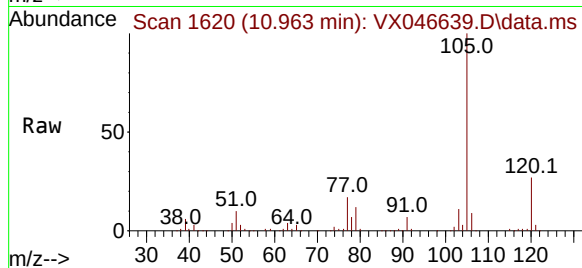
120 26.2 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#74

N-ethyl acetate

Concen: 18.198 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Tgt Ion: 43 Resp: 41919

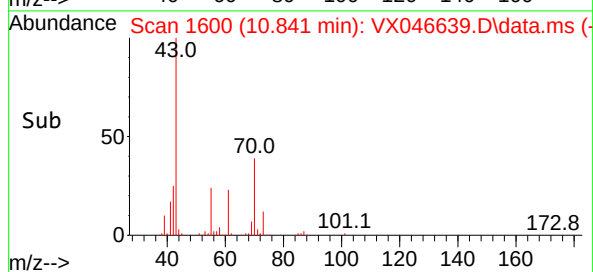
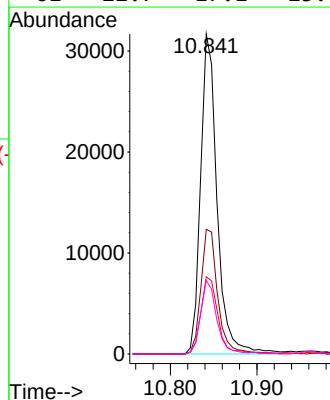
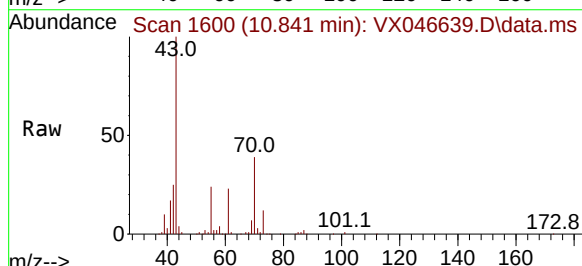
Ion Ratio Lower Upper

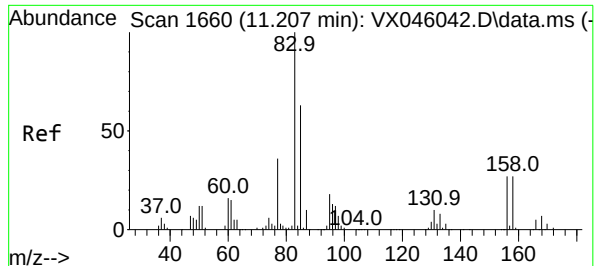
43 100

70 39.8 30.9 46.3

55 25.1 18.7 28.1

61 22.7 17.1 25.7





#75

1,1,2,2-Tetrachloroethane

Concen: 19.758 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

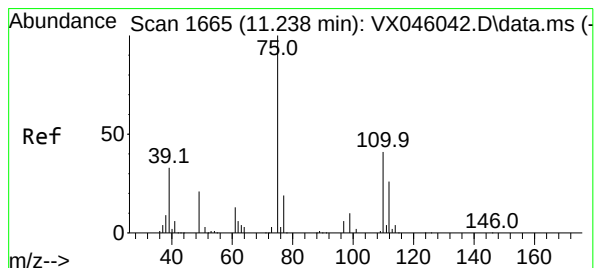
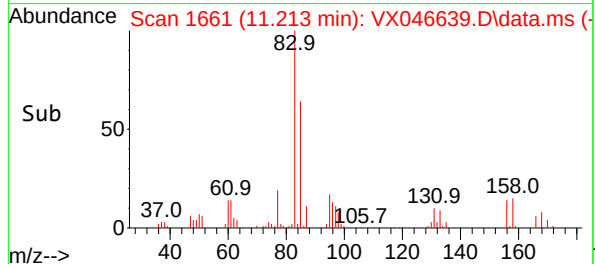
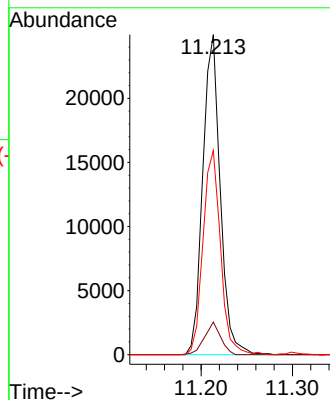
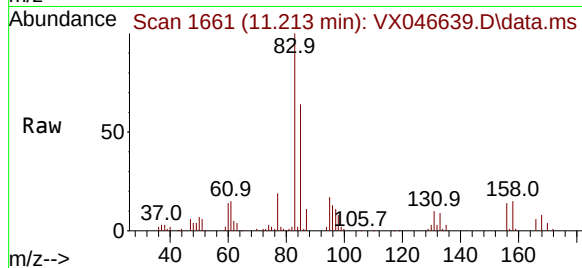
Tgt Ion:	83	Resp:	3308
Ion Ratio	Lower	Upper	
83	100		
131	9.5	5.0	14.9
85	64.0	31.9	95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#76

1,2,3-Trichloropropane

Concen: 18.824 ug/l m

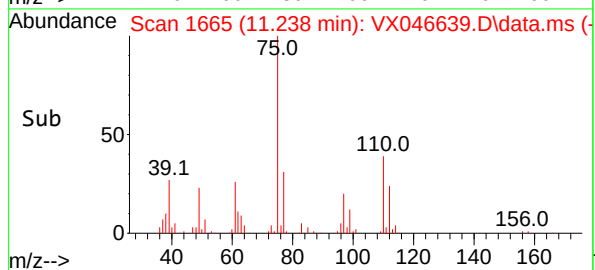
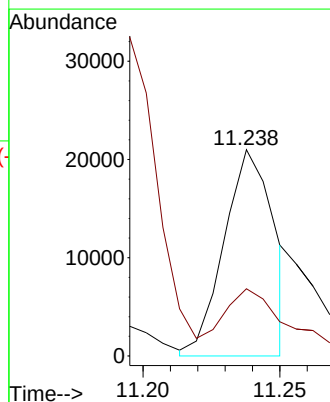
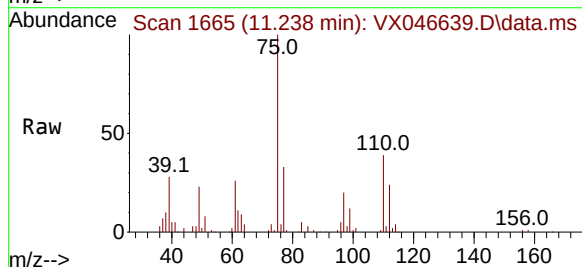
RT: 11.238 min Scan# 1665

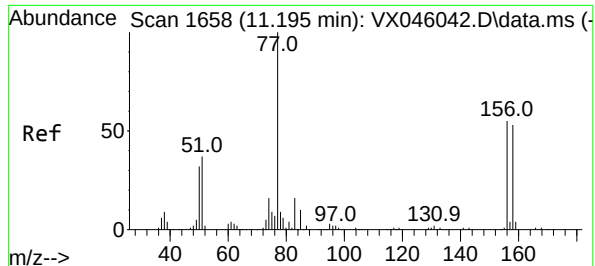
Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Tgt Ion:	75	Resp:	26532
Ion Ratio	Lower	Upper	
75	100		
77	43.5	20.5	61.5





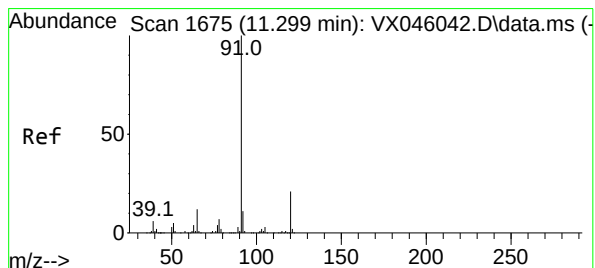
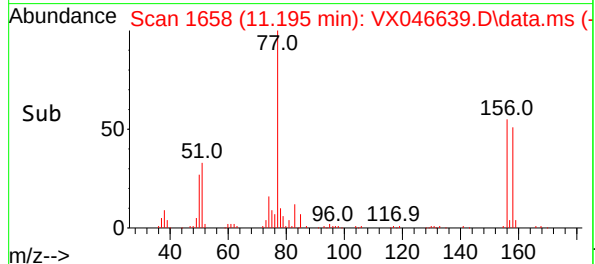
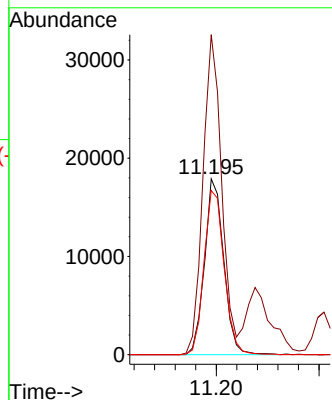
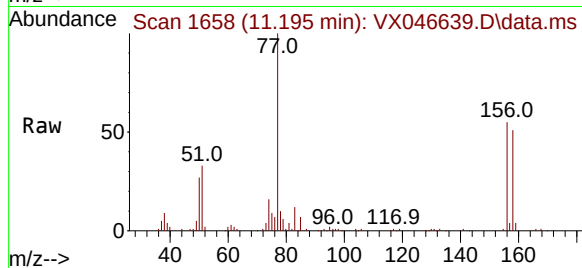
#77
Bromobenzene
Concen: 19.206 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion:	156	Resp:	23318
Ion Ratio	Lower	Upper	
156	100		
77	176.7	92.8	278.3
158	97.7	48.8	146.3

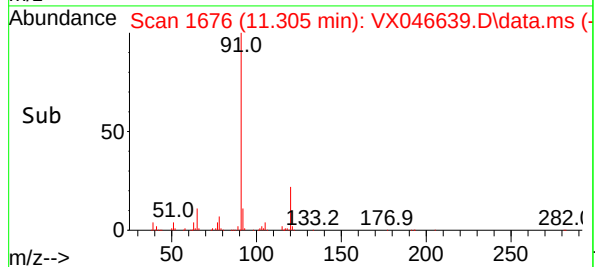
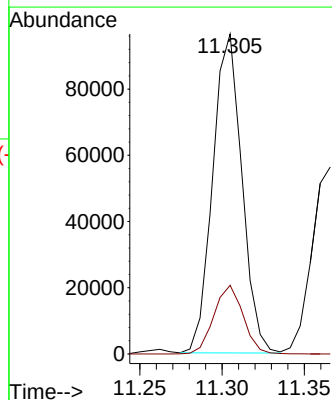
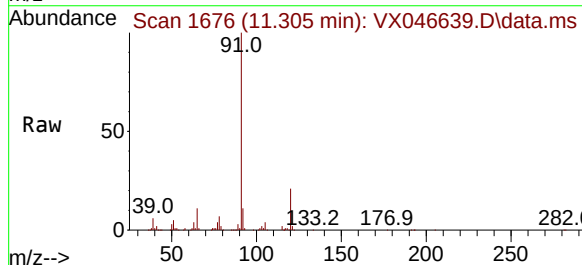
Manual Integrations
APPROVED

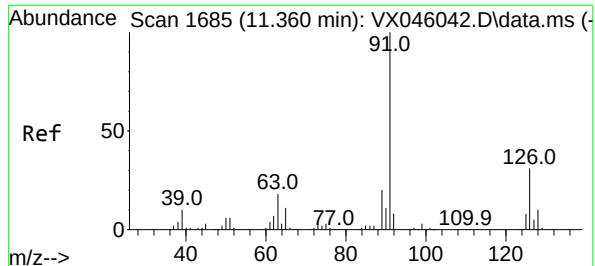
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#78
n-propylbenzene
Concen: 18.787 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion:	91	Resp:	118948
Ion Ratio	Lower	Upper	
91	100		
120	21.6	10.8	32.4





#79

2-Chlorotoluene

Concen: 18.786 ug/l

RT: 11.366 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 91 Resp: 7172

Ion Ratio Lower Upper

91 100

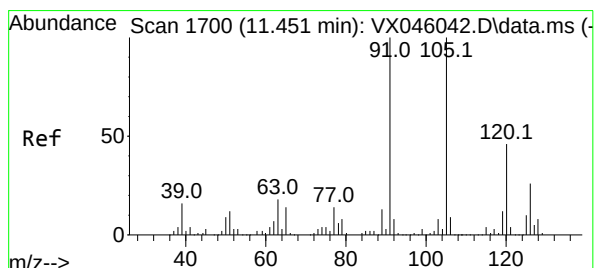
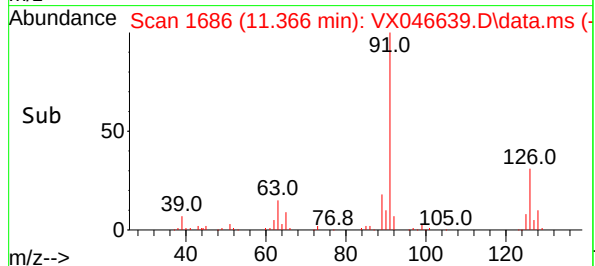
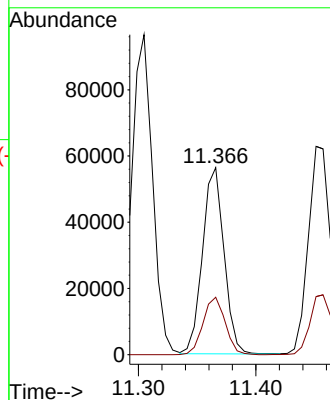
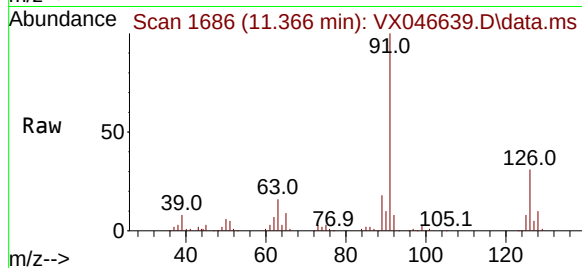
126 31.7 15.6 46.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#80

1,3,5-Trimethylbenzene

Concen: 18.940 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046639.D

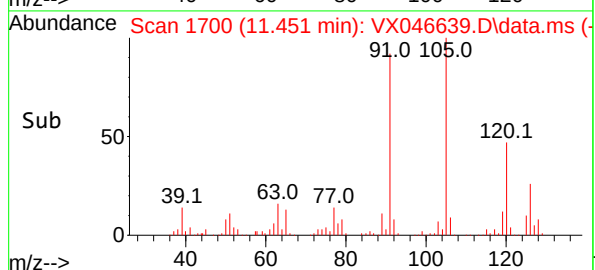
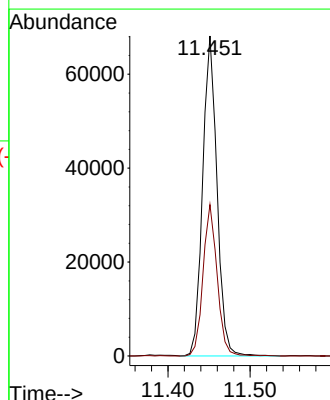
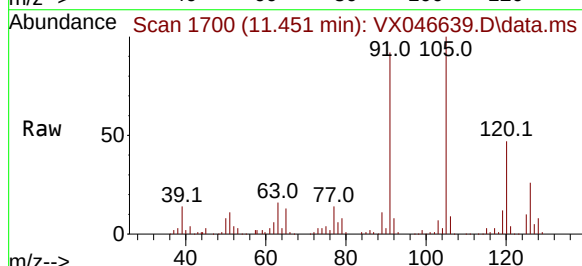
Acq: 11 Jun 2025 15:58

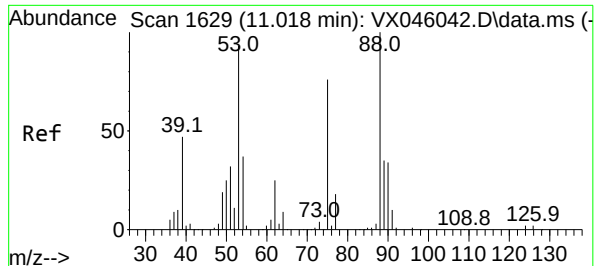
Tgt Ion:105 Resp: 82556

Ion Ratio Lower Upper

105 100

120 46.6 23.1 69.2





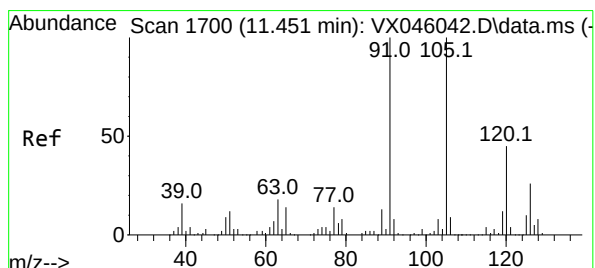
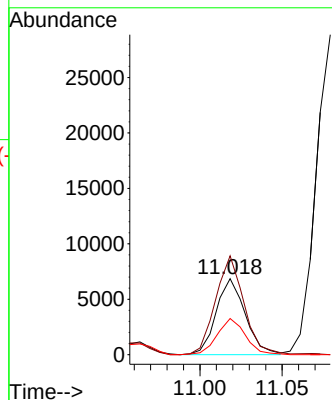
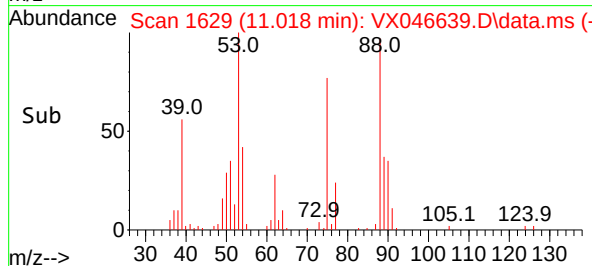
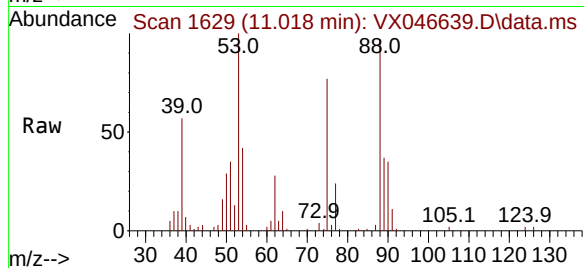
#81
trans-1,4-Dichloro-2-butene
Concen: 17.284 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion: 75 Resp: 8449
Ion Ratio Lower Upper
75 100
53 127.3 100.5 150.7
89 46.0 37.0 55.6

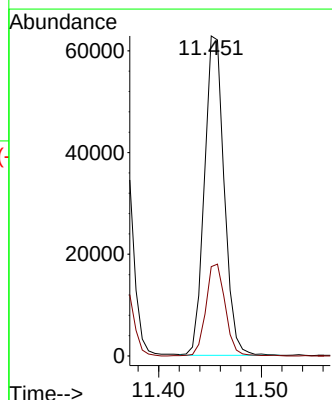
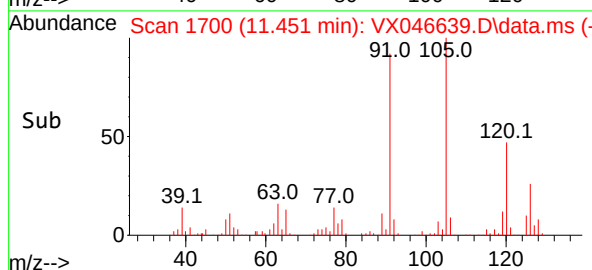
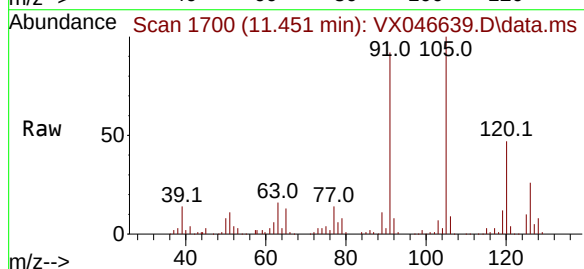
Manual Integrations
APPROVED

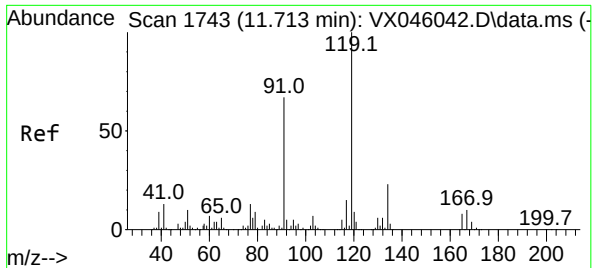
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#82
4-Chlorotoluene
Concen: 18.528 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

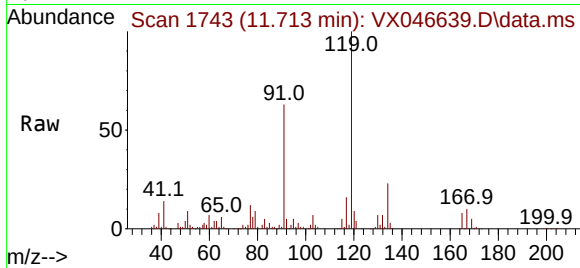
Tgt Ion: 91 Resp: 83845
Ion Ratio Lower Upper
91 100
126 28.4 13.3 39.8





#83
tert-Butylbenzene
Concen: 19.176 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

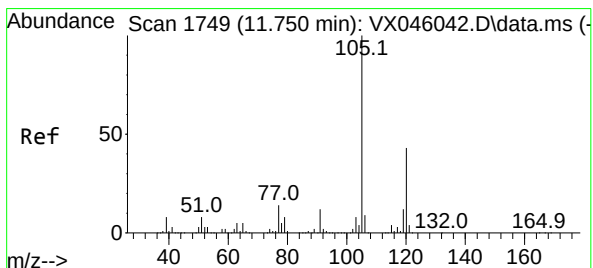
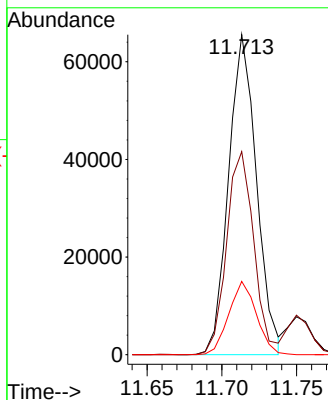
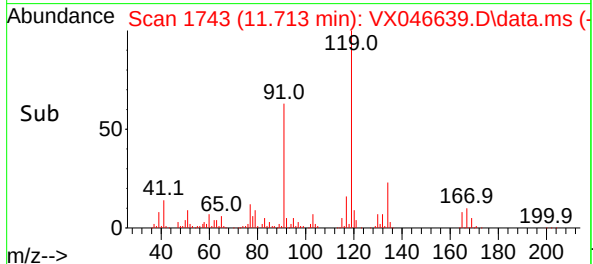
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



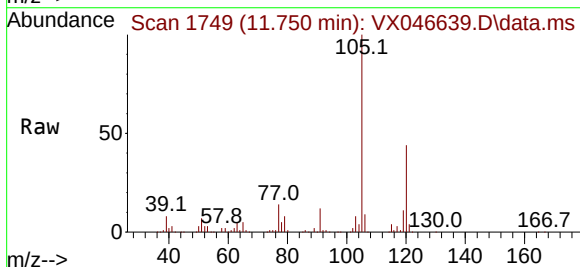
Tgt Ion:119 Resp: 8508
Ion Ratio Lower Upper
119 100
91 62.1 32.9 98.7
134 22.7 11.4 34.1

Manual Integrations
APPROVED

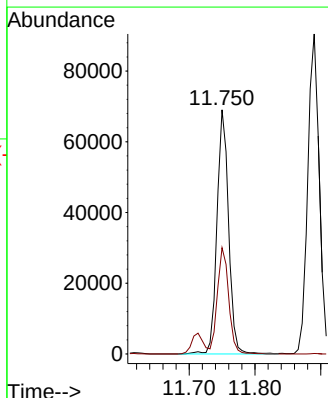
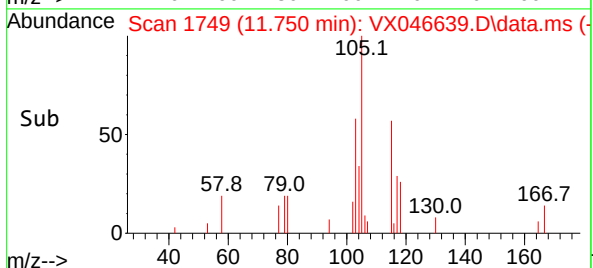
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

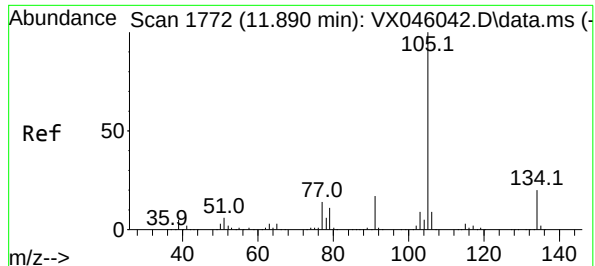


#84
1,2,4-Trimethylbenzene
Concen: 19.231 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58



Tgt Ion:105 Resp: 84799
Ion Ratio Lower Upper
105 100
120 42.4 21.2 63.6





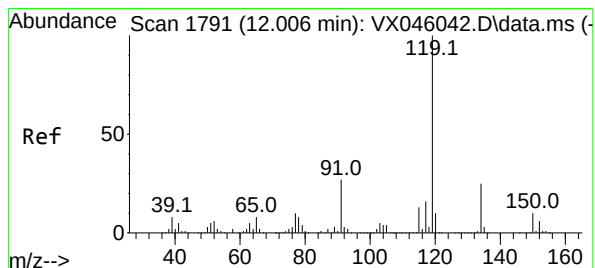
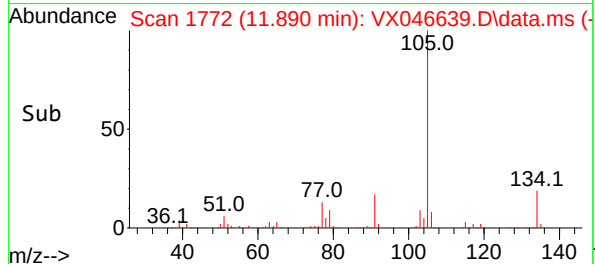
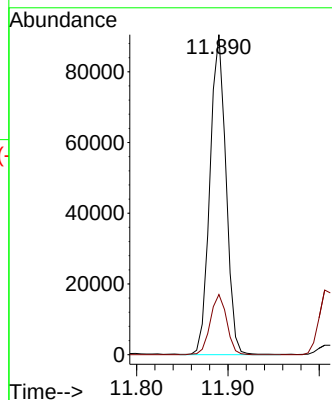
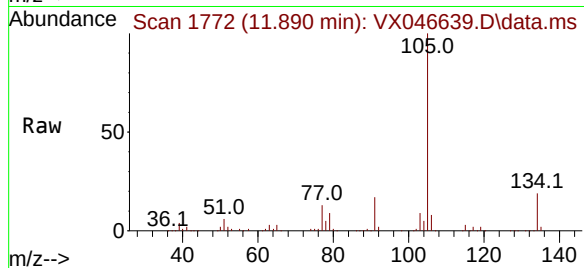
#85
sec-Butylbenzene
Concen: 19.333 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion:105 Resp: 110228
Ion Ratio Lower Upper
105 100
134 19.2 9.7 29.1

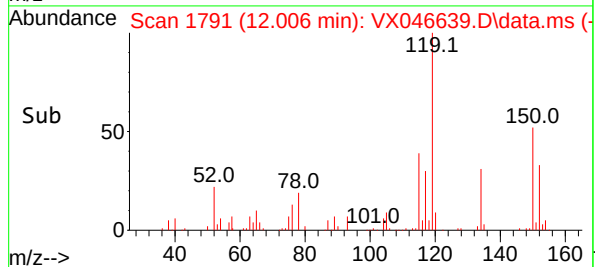
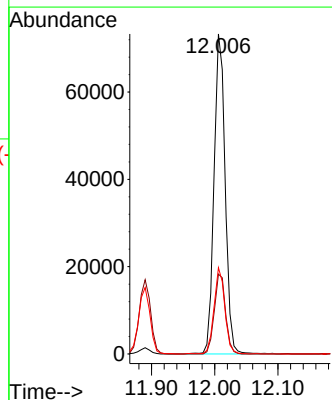
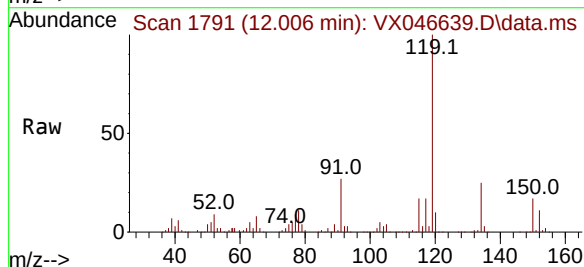
Manual Integrations
APPROVED

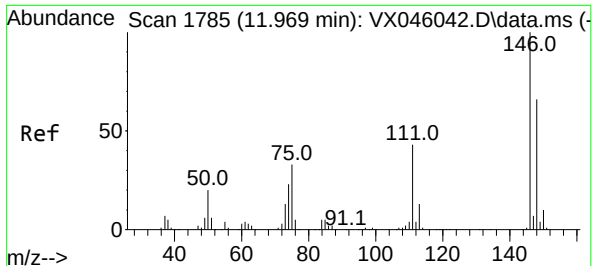
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#86
p-Isopropyltoluene
Concen: 18.912 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion:119 Resp: 89892
Ion Ratio Lower Upper
119 100
134 25.1 12.5 37.5
91 26.1 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 18.941 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

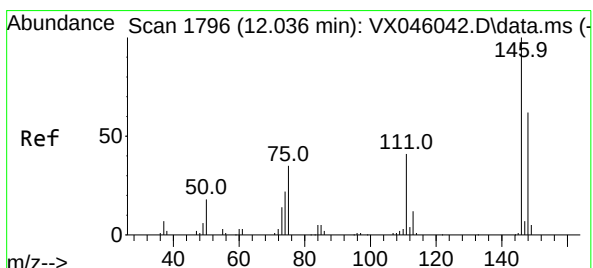
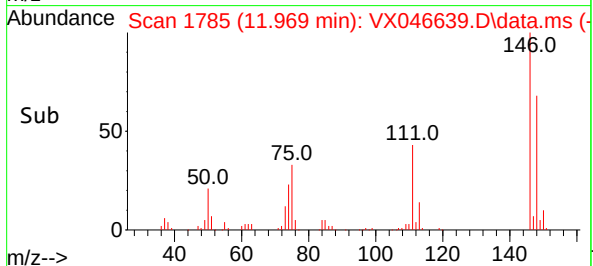
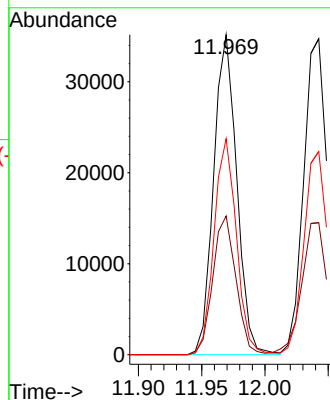
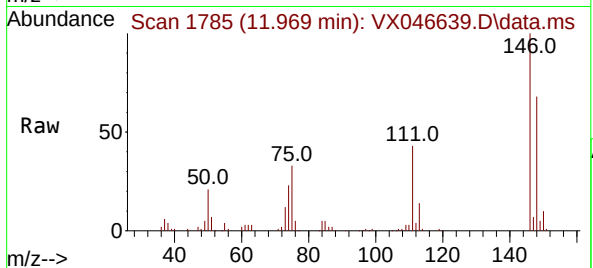
VX0611WBS02

Tgt Ion:146	Resp:	44650
Ion Ratio	Lower	Upper
146	100	
111	43.4	22.1 66.3
148	65.4	32.1 96.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#88

1,4-Dichlorobenzene

Concen: 18.773 ug/l

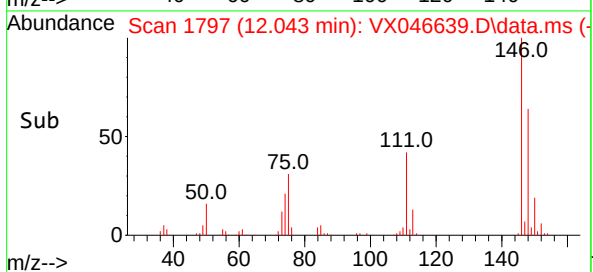
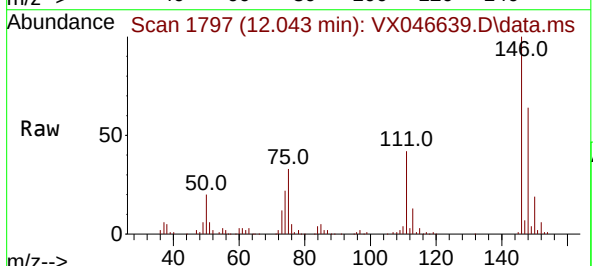
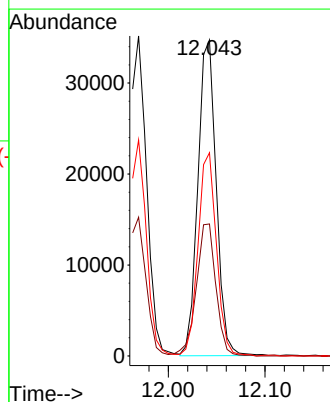
RT: 12.043 min Scan# 1797

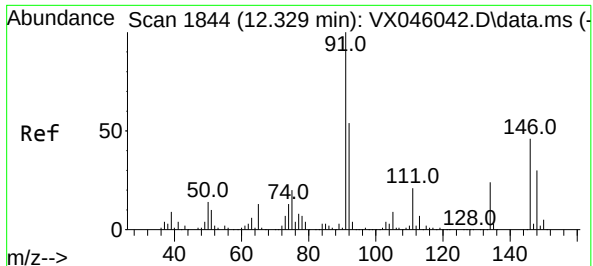
Delta R.T. 0.001 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Tgt Ion:146	Resp:	45863
Ion Ratio	Lower	Upper
146	100	
111	44.8	21.3 63.9
148	64.7	31.9 95.5





#89

n-Butylbenzene

Concen: 18.308 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

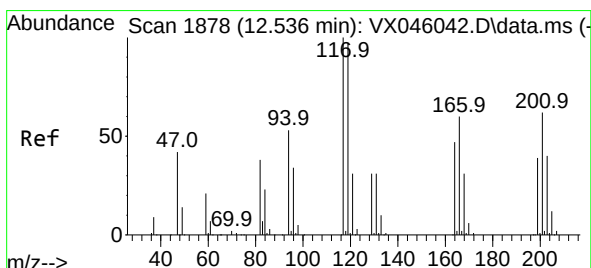
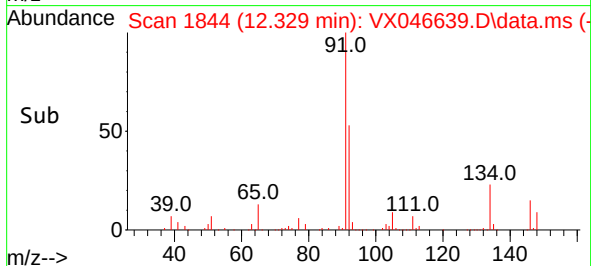
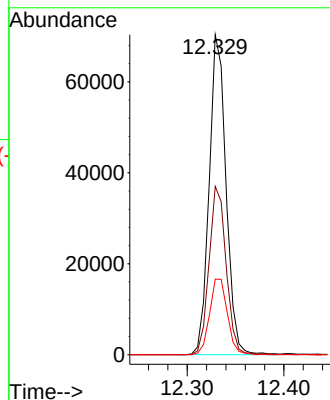
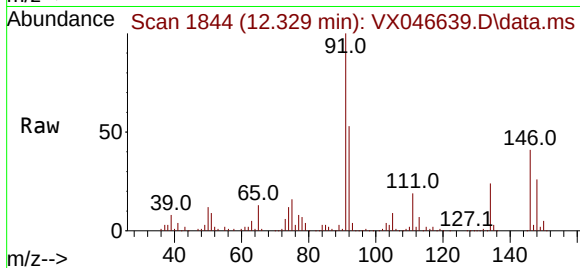
VX0611WBS02

Tgt Ion: 91	Resp: 8545
Ion Ratio	Lower Upper
91	100
92	53.3 26.9 80.7
134	24.9 11.8 35.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#90

Hexachloroethane

Concen: 17.769 ug/l

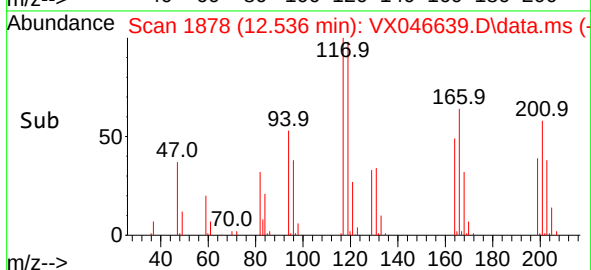
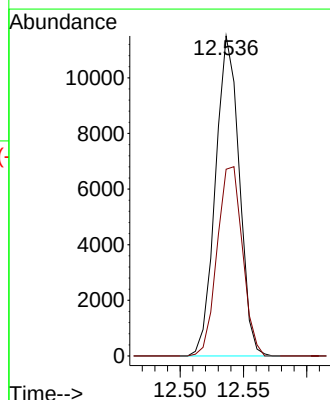
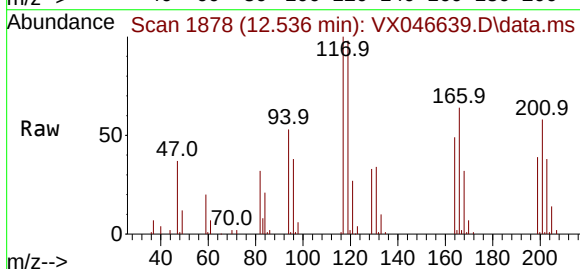
RT: 12.536 min Scan# 1878

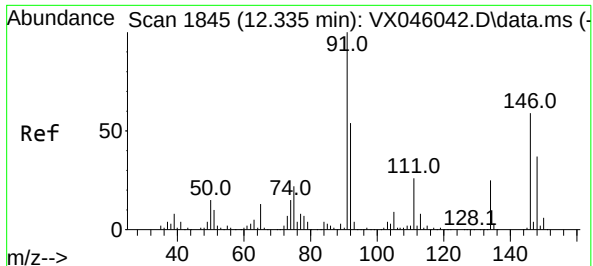
Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

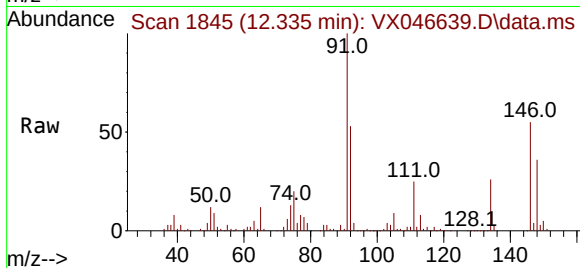
Tgt Ion: 117	Resp: 15011
Ion Ratio	Lower Upper
117	100
201	63.1 31.6 94.7





#91
1,2-Dichlorobenzene
Concen: 19.419 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

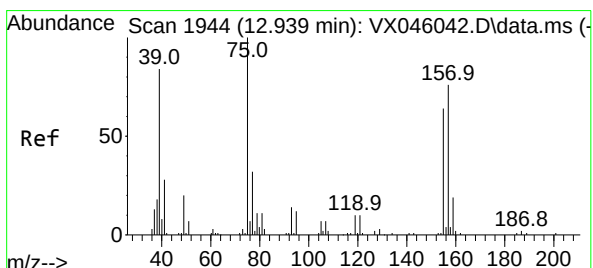
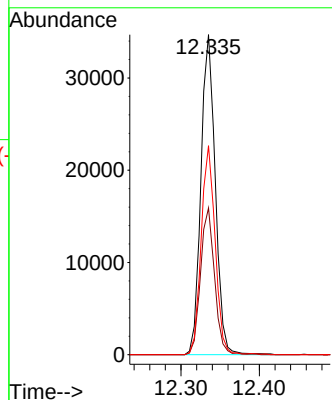
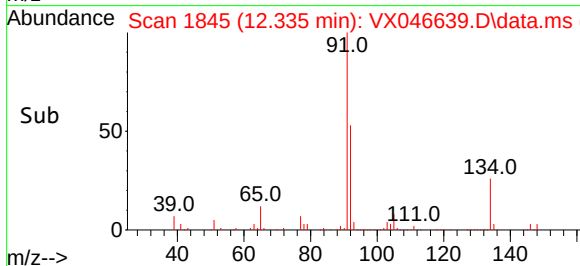
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



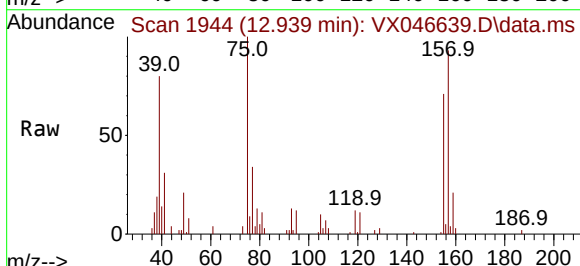
Tgt Ion:146 Resp: 4419
Ion Ratio Lower Upper
146 100
111 44.9 22.4 67.3
148 63.4 31.6 94.8

Manual Integrations
APPROVED

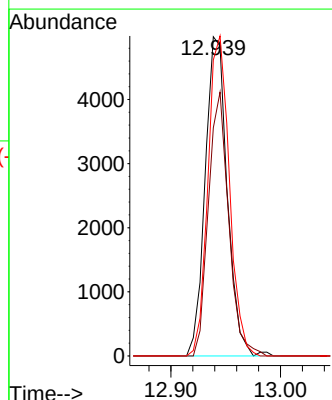
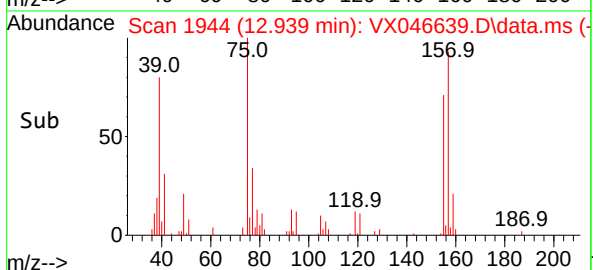
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

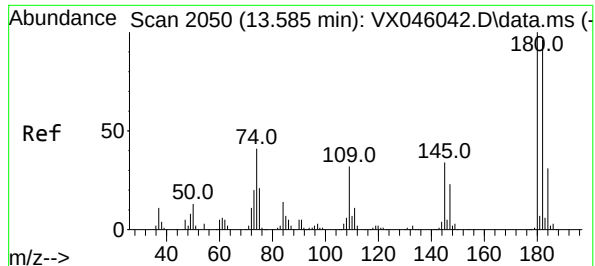


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.569 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58



Tgt Ion: 75 Resp: 6962
Ion Ratio Lower Upper
75 100
155 75.9 34.9 104.8
157 97.2 43.8 131.4





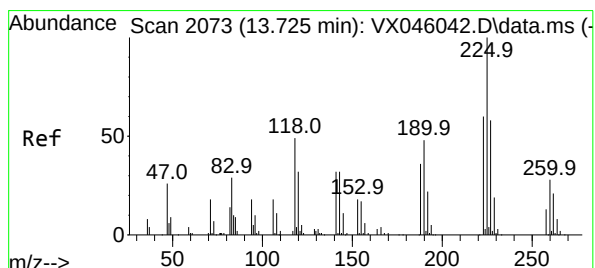
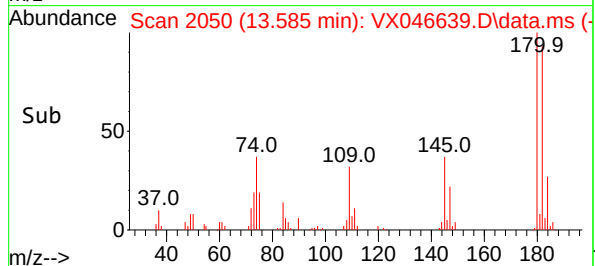
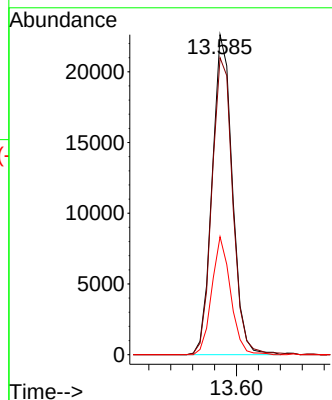
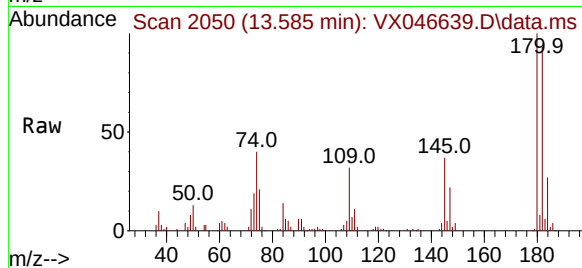
#93
1,2,4-Trichlorobenzene
Concen: 18.645 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion:180 Resp: 28940
Ion Ratio Lower Upper
180 100
182 95.6 47.9 143.8
145 34.3 17.1 51.2

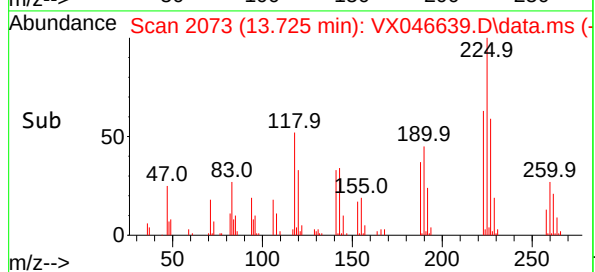
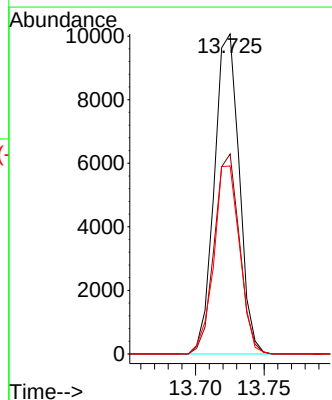
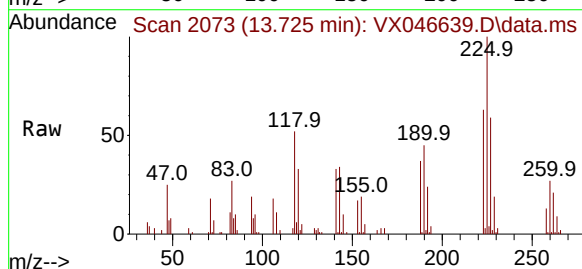
Manual Integrations
APPROVED

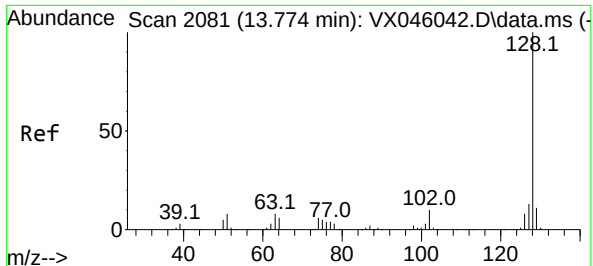
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#94
Hexachlorobutadiene
Concen: 17.603 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

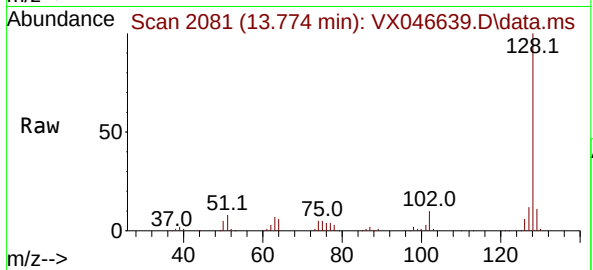
Tgt Ion:225 Resp: 12700
Ion Ratio Lower Upper
225 100
223 63.2 30.8 92.4
227 61.0 30.9 92.7





#95
Naphthalene
Concen: 19.148 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

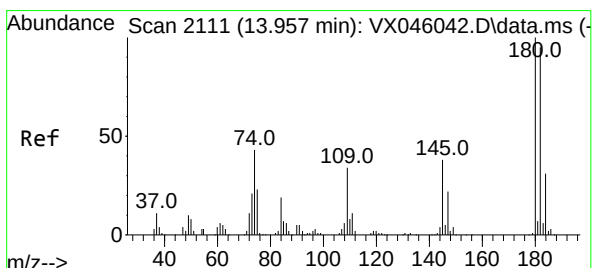
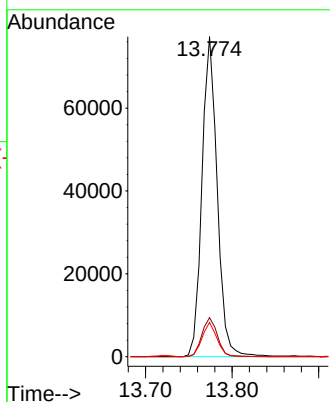
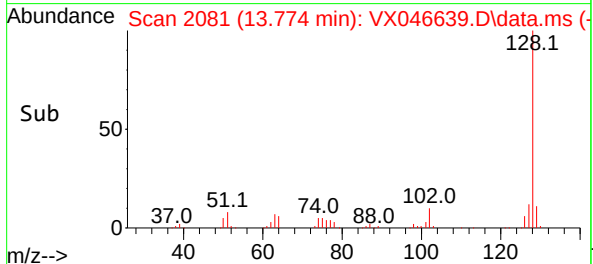
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



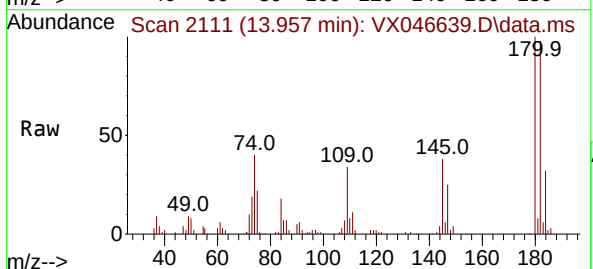
Tgt Ion:128 Resp: 94270
Ion Ratio Lower Upper
128 100
127 12.5 10.4 15.6
129 10.6 8.6 13.0

Manual Integrations
APPROVED

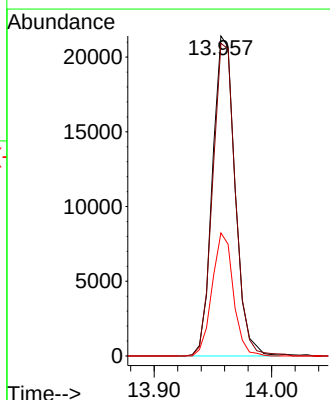
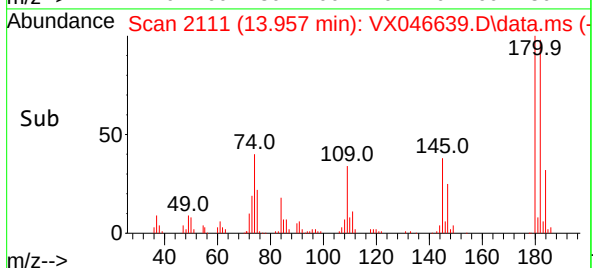
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.338 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58



Tgt Ion:180 Resp: 28547
Ion Ratio Lower Upper
180 100
182 97.9 47.8 143.3
145 36.1 18.1 54.3



Report of Analysis

Client:	CDM Smith	Date Collected:	06/04/25
Project:	Con Ed UTEN Mount Vernon, NY	Date Received:	06/04/25
Client Sample ID:	GW-MW01-060425MS	SDG No.:	Q2230
Lab Sample ID:	Q2230-03MS	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046641.D	1		06/11/25 16:47	VX061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	58.1		0.15	1.00	ug/L
108-88-3	Toluene	62.2		0.14	1.00	ug/L
100-41-4	Ethyl Benzene	65.8		0.13	1.00	ug/L
1330-20-7	Total Xylenes	245		0.36	3.00	ug/L
98-82-8	Isopropylbenzene	62.9		0.12	1.00	ug/L
103-65-1	n-propylbenzene	63.6		0.13	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	72.5		0.15	1.00	ug/L
98-06-6	tert-Butylbenzene	61.8		0.14	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	100		0.14	1.00	ug/L
135-98-8	sec-Butylbenzene	60.8		0.13	1.00	ug/L
99-87-6	p-Isopropyltoluene	60.8		0.13	1.00	ug/L
104-51-8	n-Butylbenzene	60.9		0.15	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.5		74 - 125	95%	SPK: 50
1868-53-7	Dibromofluoromethane	52.2		75 - 124	104%	SPK: 50
2037-26-5	Toluene-d8	51.1		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		77 - 121	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	80800	5.568			
540-36-3	1,4-Difluorobenzene	141000	6.769			
3114-55-4	Chlorobenzene-d5	125000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	63000	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\VX061125\
 Data File : VX046641.D
 Acq On : 11 Jun 2025 16:47
 Operator : JC/MD
 Sample : Q2230-03MS
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-MW01-060425MS

Quant Time: Jun 12 02:32:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Mahesh Dadoda 06/12/2025

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

Internal Standards						
1) Pentafluorobenzene	5.568	168	80829	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	141022	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	125449	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	63001	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.970	65	68333	47.518	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.040%
35) Dibromofluoromethane	5.403	113	54143	52.208	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.420%
50) Toluene-d8	8.653	98	174641	51.078	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.160%
62) 4-Bromofluorobenzene	11.079	95	71997	50.894	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.780%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.185	85	55189	49.181	ug/l	99
3) Chloromethane	1.307	50	49886	48.840	ug/l	100
4) Vinyl Chloride	1.386	62	49623	48.736	ug/l	99
5) Bromomethane	1.618	94	26246	42.460	ug/l	96
6) Chloroethane	1.697	64	32943	49.866	ug/l	95
7) Trichlorofluoromethane	1.904	101	86652	51.436	ug/l	98
8) Diethyl Ether	2.148	74	31877	53.554	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.349	101	59141	55.721	ug/l	96
10) Methyl Iodide	2.471	142	58537	50.877	ug/l	98
11) Tert butyl alcohol	2.971	59	47445	297.334	ug/l	99
12) 1,1-Dichloroethene	2.337	96	54434	56.724	ug/l	92
13) Acrolein	2.252	56	50454	260.062	ug/l	99
14) Allyl chloride	2.684	41	109159	57.919	ug/l	93
15) Acrylonitrile	3.081	53	184732	306.193	ug/l	99
16) Acetone	2.392	43	195958	345.230	ug/l	94
17) Carbon Disulfide	2.532	76	107736	52.862	ug/l	99
18) Methyl Acetate	2.721	43	111849	65.298	ug/l	97
19) Methyl tert-butyl Ether	3.129	73	210789	62.775	ug/l	100
20) Methylene Chloride	2.806	84	64032	55.503	ug/l	95
21) trans-1,2-Dichloroethene	3.111	96	55678	54.825	ug/l	99
22) Diisopropyl ether	3.776	45	232197	62.491	ug/l #	74
23) Vinyl Acetate	3.739	43	893940	311.614	ug/l	100
24) 1,1-Dichloroethane	3.629	63	122523	59.165	ug/l	100
25) 2-Butanone	4.568	43	253554	316.735	ug/l	98
26) 2,2-Dichloropropane	4.495	77	94890	61.723	ug/l	98
27) cis-1,2-Dichloroethene	4.507	96	73546	58.828	ug/l	96
28) Bromochloromethane	4.916	49	53361	54.024	ug/l	98
29) Tetrahydrofuran	5.019	42	150219	297.136	ug/l	98
30) Chloroform	5.111	83	136904	63.094	ug/l	96
31) Cyclohexane	5.489	56	93511	55.934	ug/l	99
32) 1,1,1-Trichloroethane	5.397	97	110017	59.274	ug/l	97
36) 1,1-Dichloropropene	5.708	75	78754	53.163	ug/l	99
37) Ethyl Acetate	4.733	43	94445	65.323	ug/l	99
38) Carbon Tetrachloride	5.690	117	93895	56.589	ug/l	99
39) Methylcyclohexane	7.391	83	94639	54.125	ug/l	97
40) Benzene	6.050	78	242275	58.095	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
 Data File : VX046641.D
 Acq On : 11 Jun 2025 16:47
 Operator : JC/MD
 Sample : Q2230-03MS
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-MW01-060425MS

Quant Time: Jun 12 02:32:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 06/12/2025
 Supervised By :Mahesh Dadoda 06/12/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.940	41	57904	64.493	ug/l	94
42) 1,2-Dichloroethane	6.098	62	98381	56.705	ug/l	98
43) Isopropyl Acetate	6.348	43	155654	61.754	ug/l	99
44) Trichloroethene	7.135	130	59079	55.755	ug/l	99
45) 1,2-Dichloropropane	7.440	63	65333	60.694	ug/l	100
46) Dibromomethane	7.586	93	48007	59.283	ug/l	98
47) Bromodichloromethane	7.830	83	103096	61.917	ug/l	96
48) Methyl methacrylate	7.702	41	80120	61.780	ug/l	95
49) 1,4-Dioxane	7.665	88	20129	1160.676	ug/l	99
51) 4-Methyl-2-Pentanone	8.574	43	510424	318.674	ug/l	98
52) Toluene	8.720	92	159232	62.150	ug/l	100
53) t-1,3-Dichloropropene	8.982	75	94946	63.598	ug/l	98
54) cis-1,3-Dichloropropene	8.372	75	101464	61.127	ug/l	90
55) 1,1,2-Trichloroethane	9.153	97	65236	63.426	ug/l	98
56) Ethyl methacrylate	9.116	69	104288	65.889	ug/l	94
57) 1,3-Dichloropropane	9.311	76	109677	60.340	ug/l	99
59) 2-Hexanone	9.433	43	366111	318.711	ug/l	97
60) Dibromochloromethane	9.525	129	76280	63.050	ug/l	99
61) 1,2-Dibromoethane	9.610	107	64605	60.277	ug/l	98
64) Tetrachloroethene	9.275	164	45958	54.786	ug/l	96
65) Chlorobenzene	10.079	112	174659	59.198	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.165	131	63873	64.065	ug/l	99
67) Ethyl Benzene	10.195	91	339109	65.838	ug/l	98
68) m/p-Xylenes	10.299	106	278890	149.265	ug/l	97
69) o-Xylene	10.640	106	170900	94.565	ug/l	100
70) Styrene	10.653	104	196786	63.611	ug/l	97
71) Bromoform	10.799	173	49303	64.856	ug/l #	97
73) Isopropylbenzene	10.963	105	311506	62.899	ug/l	100
74) N-amyl acetate	10.842	43	140476	64.410	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	97335	61.402	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	80013m	59.960	ug/l	
77) Bromobenzene	11.195	156	69998	60.893	ug/l	96
78) n-propylbenzene	11.305	91	381289	63.608	ug/l	99
79) 2-Chlorotoluene	11.366	91	227781	63.014	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	299297	72.523	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	30173	65.224	ug/l	92
82) 4-Chlorotoluene	11.451	91	252716	58.983	ug/l	98
83) tert-Butylbenzene	11.713	119	259455	61.758	ug/l	95
84) 1,2,4-Trimethylbenzene	11.750	105	428093	102.538	ug/l	99
85) sec-Butylbenzene	11.890	105	328394	60.834	ug/l	99
86) p-Isopropyltoluene	12.006	119	273527	60.781	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	132095	59.177	ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	131861	57.008	ug/l	99
89) n-Butylbenzene	12.329	91	269319	60.941	ug/l	96
90) Hexachloroethane	12.536	117	50932	63.677	ug/l	96
91) 1,2-Dichlorobenzene	12.335	146	128987	59.863	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	22181	62.485	ug/l	92
93) 1,2,4-Trichlorobenzene	13.585	180	87233	59.349	ug/l	97
94) Hexachlorobutadiene	13.725	225	34998	51.236	ug/l	96
95) Naphthalene	13.774	128	328865	70.554	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	86490	58.683	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046641.D
Acq On : 11 Jun 2025 16:47
Operator : JC/MD
Sample : Q2230-03MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 12 02:32:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

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

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

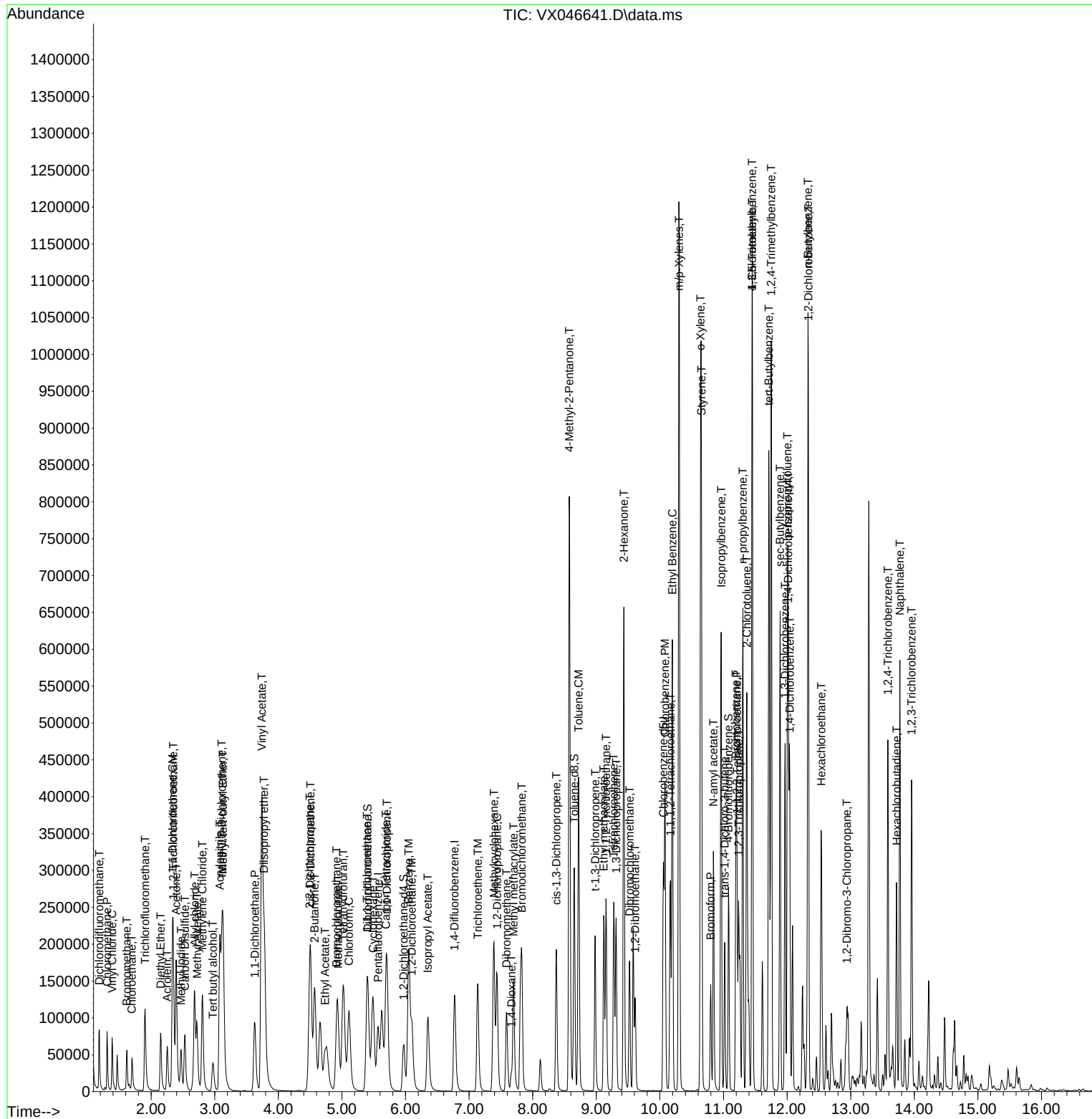
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Acq On : 11 Jun 2025 16:47
Operator : JC/MD
Sample : Q2230-03MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

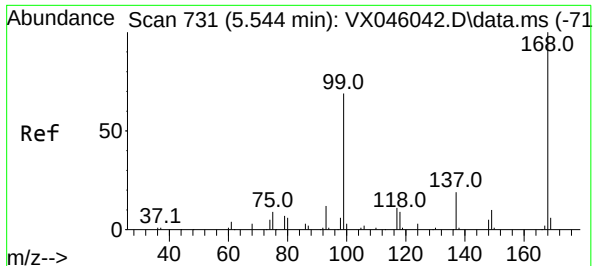
Quant Time: Jun 12 02:32:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS

Manual Integrations
APPROVED

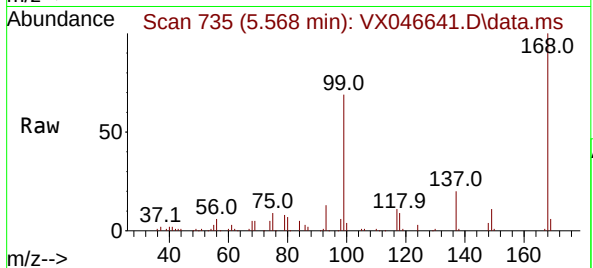
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

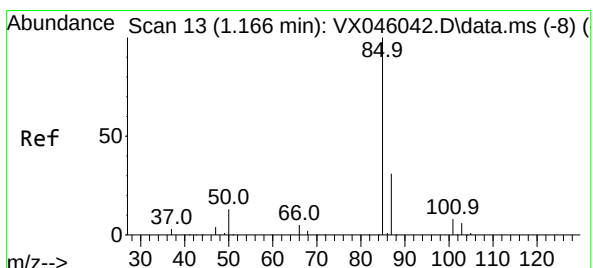
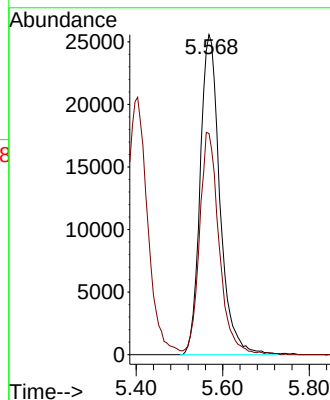
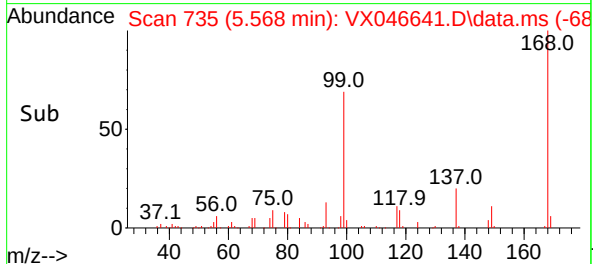
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS



Tgt Ion:168 Resp: 80829
Ion Ratio Lower Upper
168 100
99 69.1 54.9 82.3

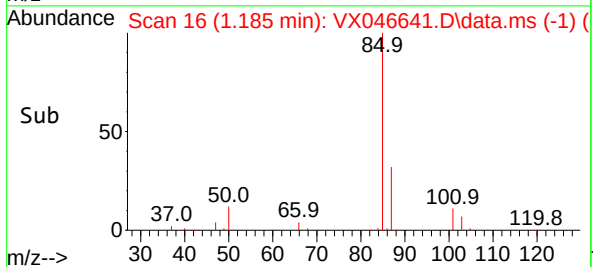
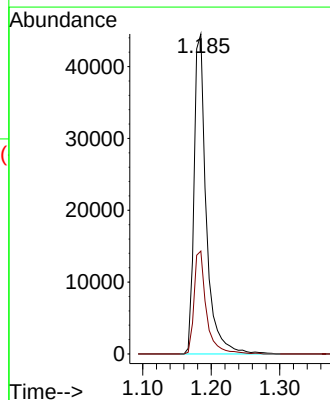
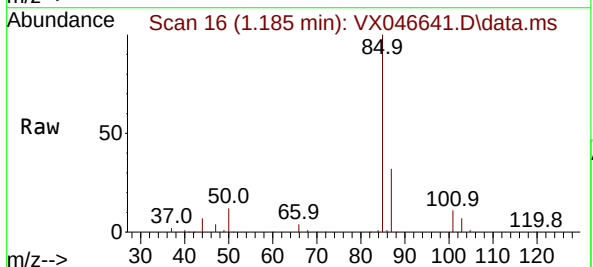
Manual Integrations
APPROVED

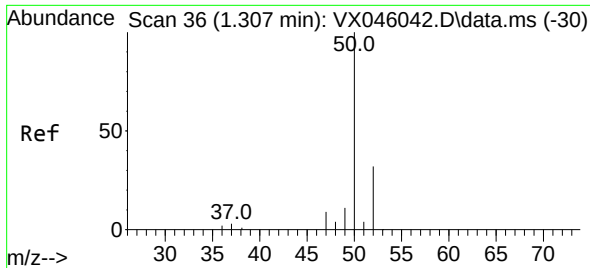
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#2
Dichlorodifluoromethane
Concen: 49.181 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

Tgt Ion: 85 Resp: 55189
Ion Ratio Lower Upper
85 100
87 32.2 15.7 47.1





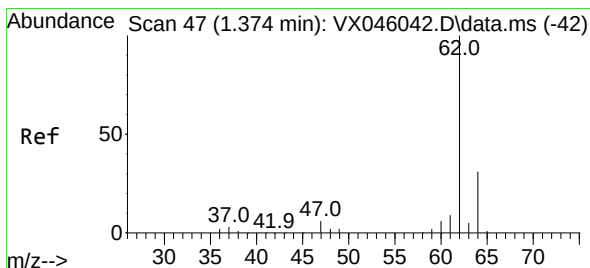
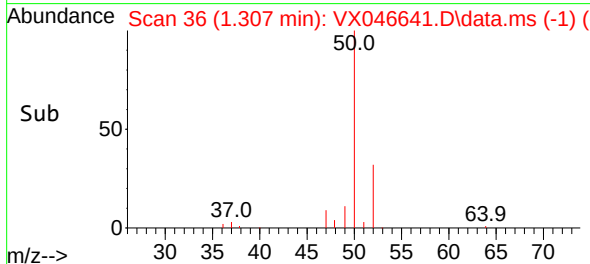
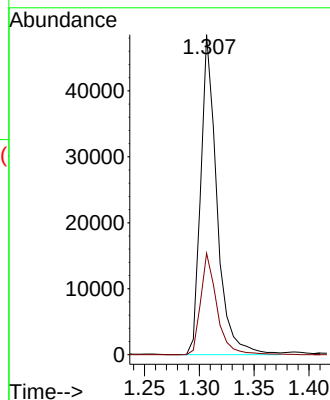
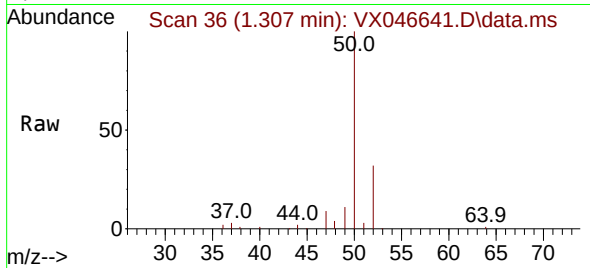
#3
Chloromethane
Concen: 48.840 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS

Tgt Ion: 50 Resp: 49880
Ion Ratio Lower Upper
50 100
52 31.7 25.4 38.2

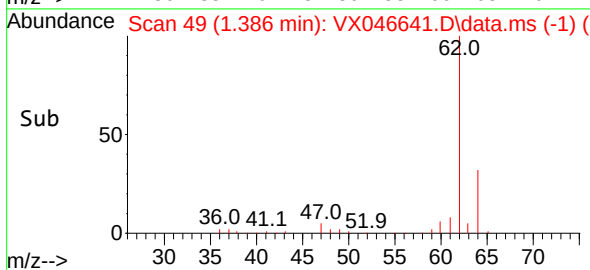
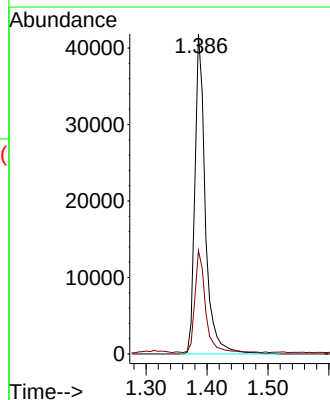
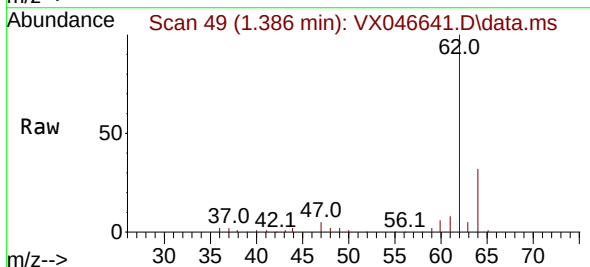
Manual Integrations
APPROVED

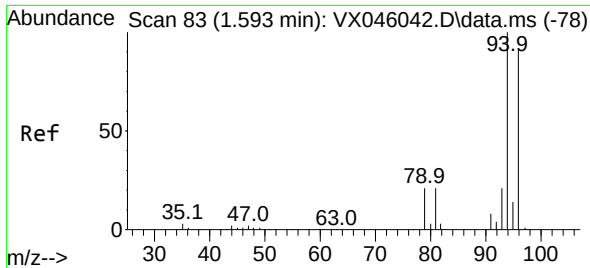
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#4
Vinyl Chloride
Concen: 48.736 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

Tgt Ion: 62 Resp: 49623
Ion Ratio Lower Upper
62 100
64 31.8 25.2 37.8





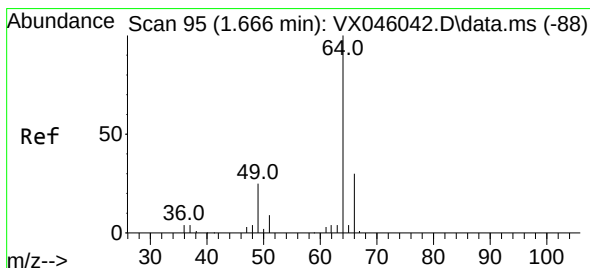
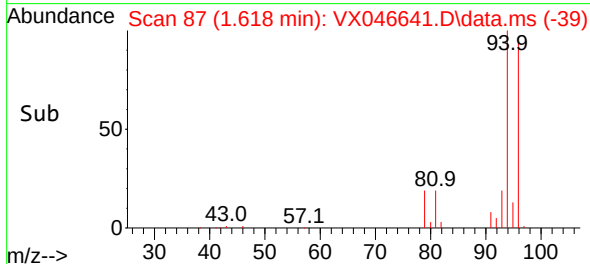
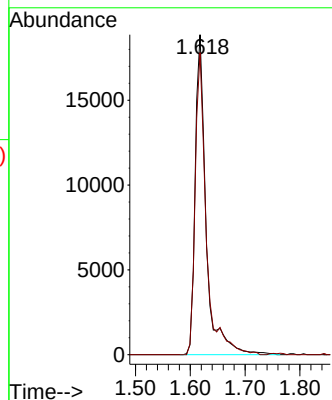
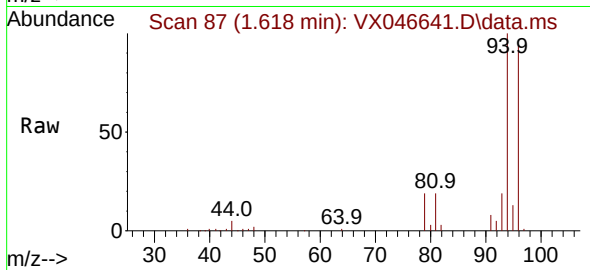
#5
Bromomethane
Concen: 42.460 ug/l
RT: 1.618 min Scan# 81
Delta R.T. -0.006 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS

Tgt Ion: 94 Resp: 26240
Ion Ratio Lower Upper
94 100
96 94.4 72.8 109.2

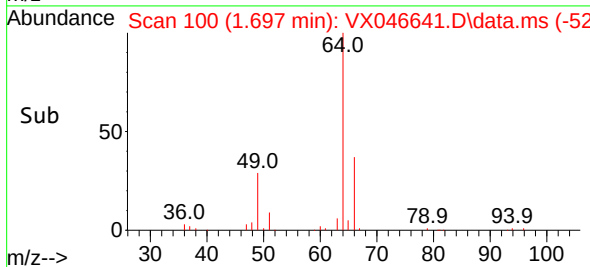
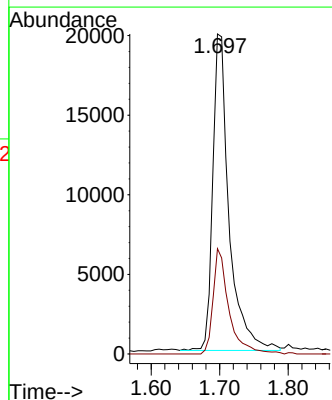
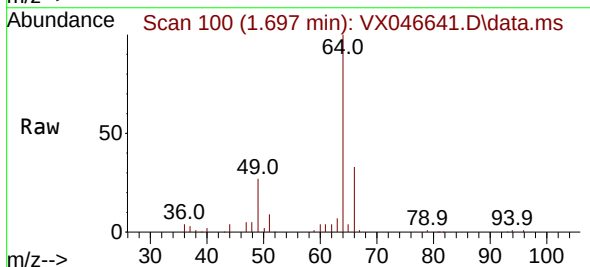
Manual Integrations
APPROVED

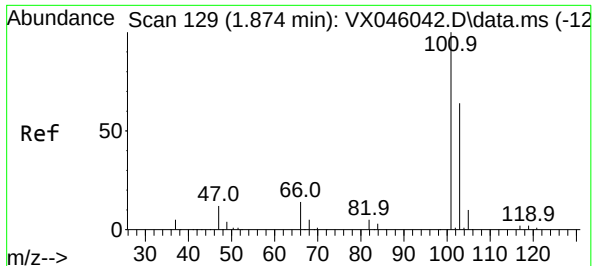
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#6
Chloroethane
Concen: 49.866 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

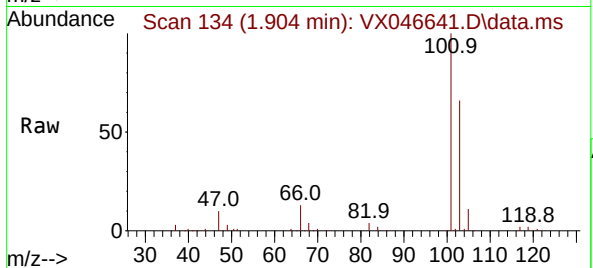
Tgt Ion: 64 Resp: 32943
Ion Ratio Lower Upper
64 100
66 33.3 24.3 36.5





#7
Trichlorofluoromethane
Concen: 51.436 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

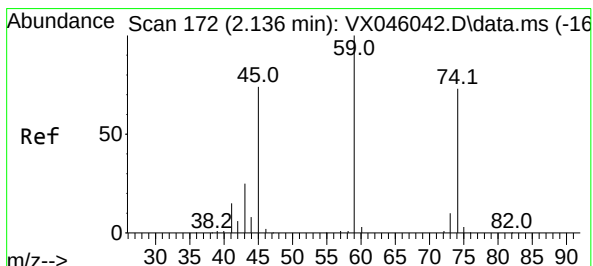
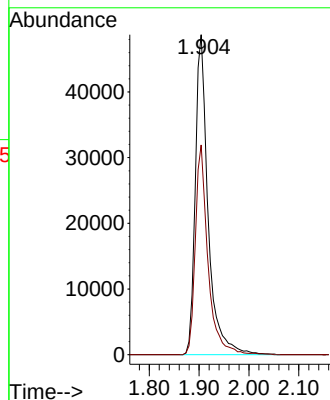
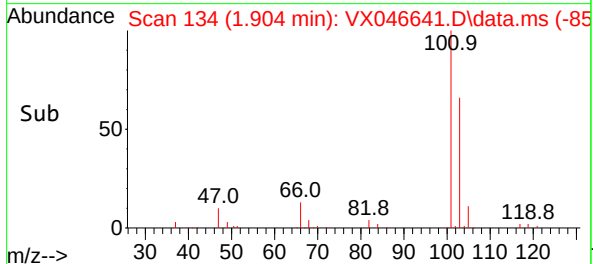
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS



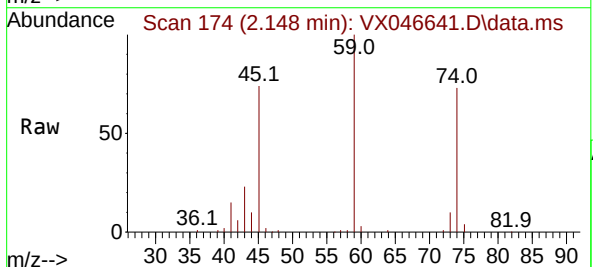
Tgt Ion:101 Resp: 86652
Ion Ratio Lower Upper
101 100
103 65.6 51.0 76.4

Manual Integrations
APPROVED

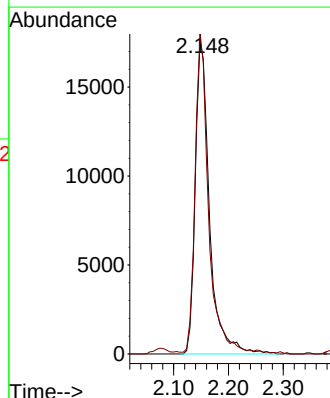
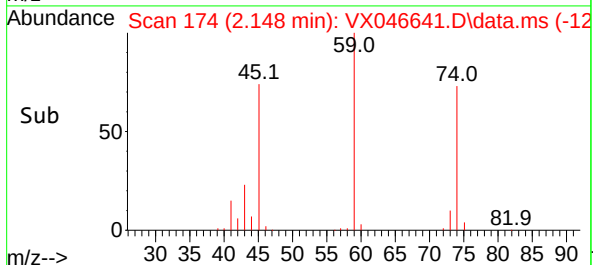
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

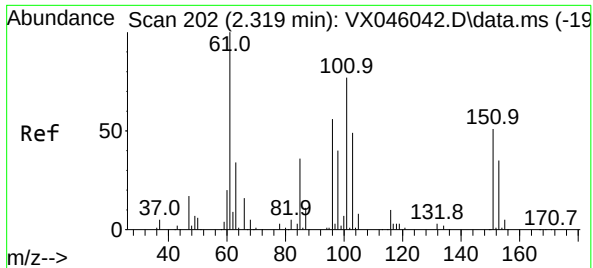


#8
Diethyl Ether
Concen: 53.554 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.006 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47



Tgt Ion: 74 Resp: 31877
Ion Ratio Lower Upper
74 100
45 96.9 54.9 164.8





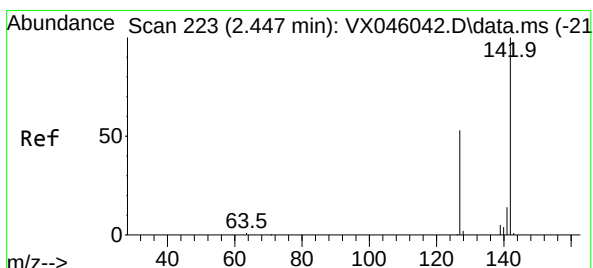
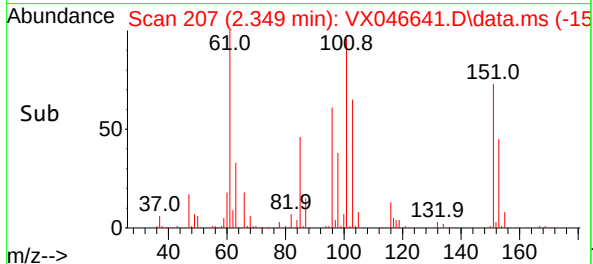
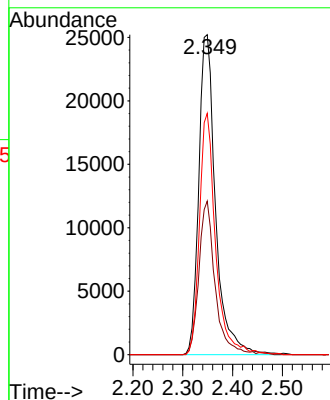
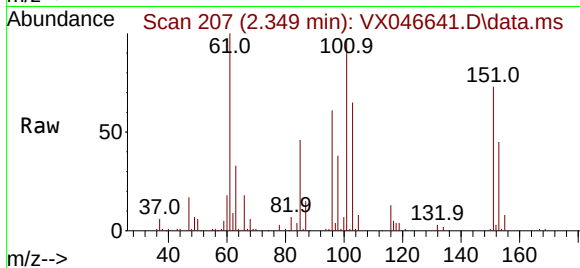
#9
1,1,2-Trichlorotrifluoroethane
Concen: 55.721 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS

Tgt Ion:101 Resp: 5914
Ion Ratio Lower Upper
101 100
85 46.5 38.6 58.0
151 72.4 55.2 82.8

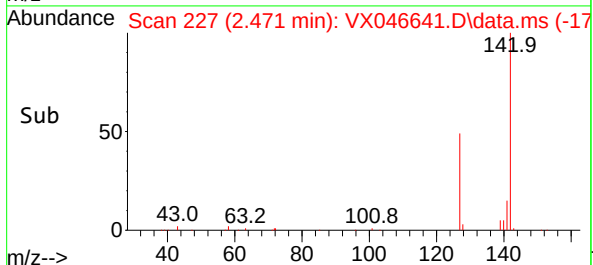
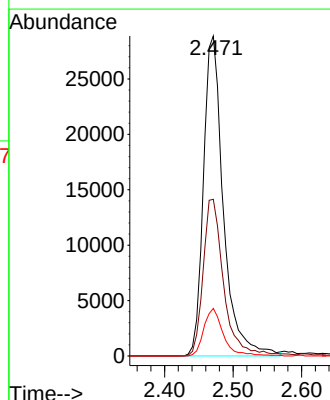
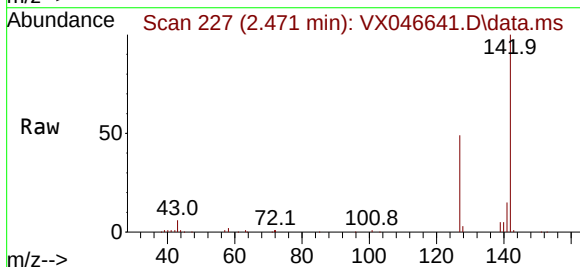
Manual Integrations
APPROVED

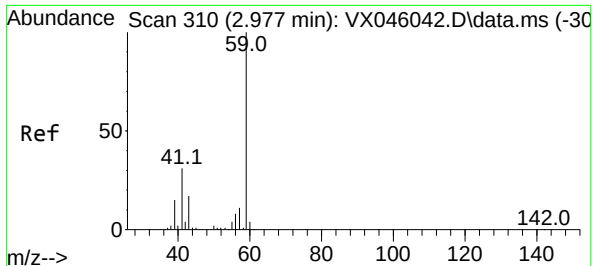
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#10
Methyl Iodide
Concen: 50.877 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

Tgt Ion:142 Resp: 58537
Ion Ratio Lower Upper
142 100
127 50.6 41.7 62.5
141 14.5 11.5 17.3





#11

Tert butyl alcohol

Concen: 297.334 ug/l

RT: 2.971 min Scan# 30

Delta R.T. -0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion: 59 Resp: 4744

Ion Ratio Lower Upper

59 100

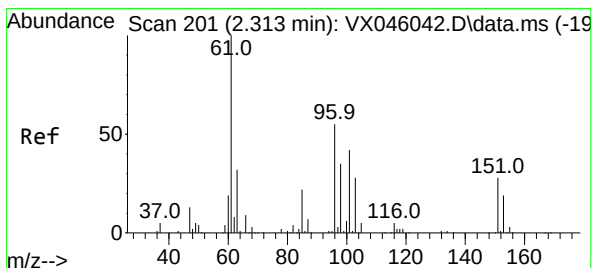
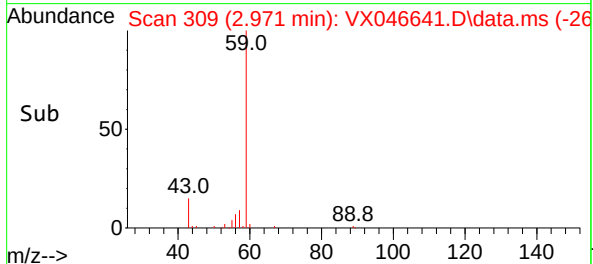
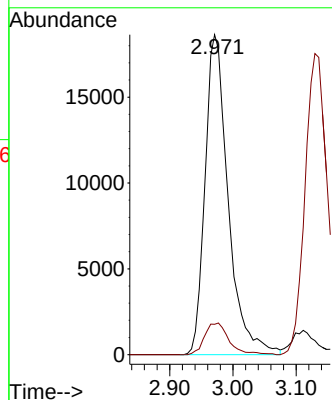
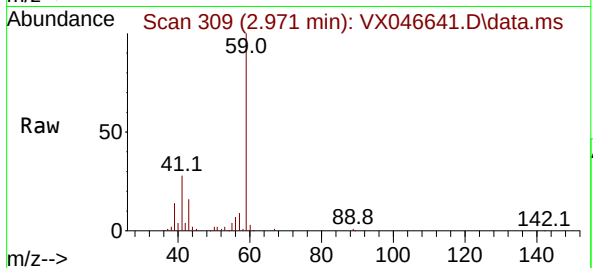
57 10.5 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#12

1,1-Dichloroethene

Concen: 56.724 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

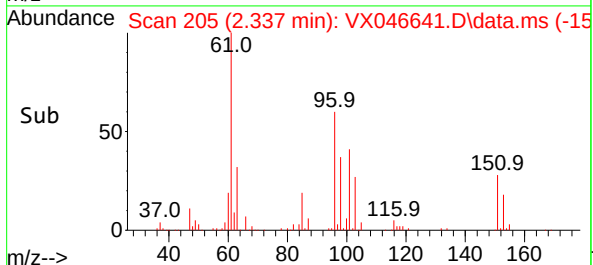
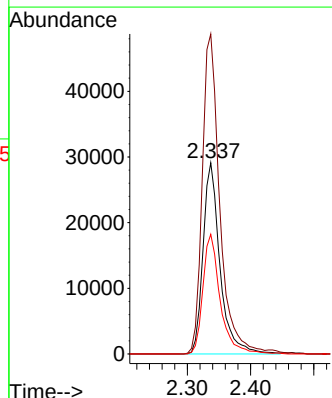
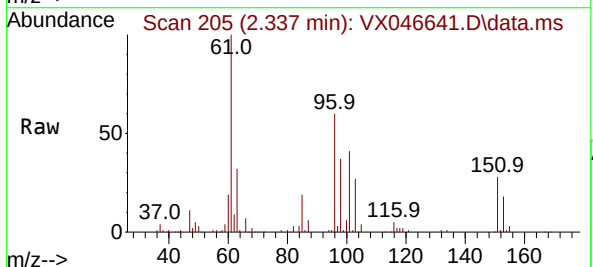
Tgt Ion: 96 Resp: 54434

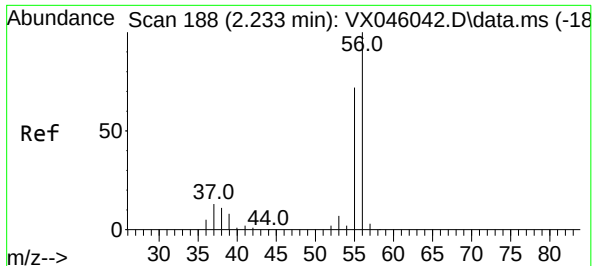
Ion Ratio Lower Upper

96 100

61 167.4 146.2 219.2

98 62.7 51.0 76.6





#13

Acrolein

Concen: 260.062 ug/l

RT: 2.252 min Scan# 191

Delta R.T. 0.001 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion: 56 Resp: 50454

Ion Ratio Lower Upper

56 100

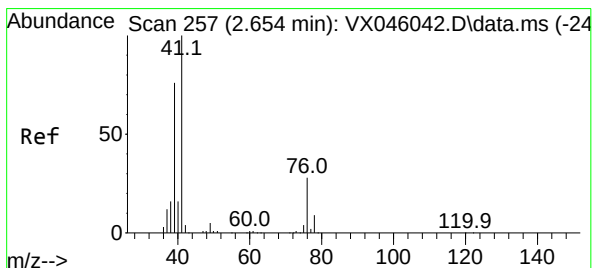
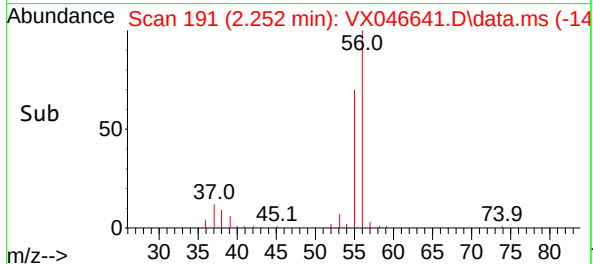
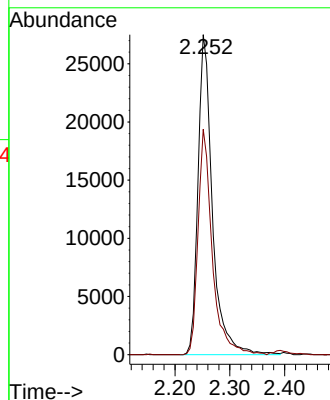
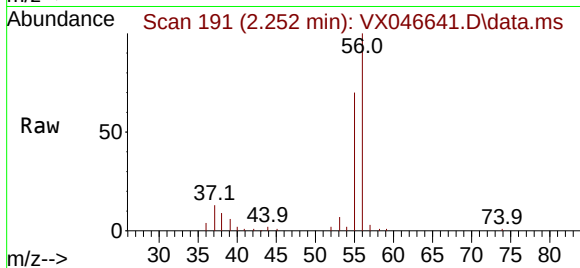
55 69.4 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#14

Allyl chloride

Concen: 57.919 ug/l

RT: 2.684 min Scan# 262

Delta R.T. 0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

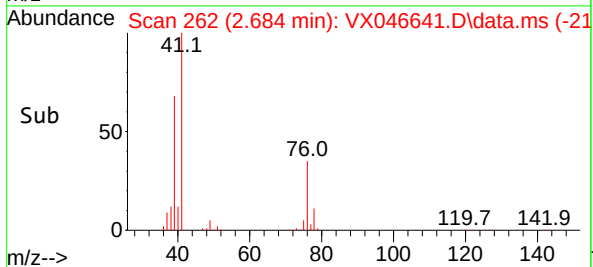
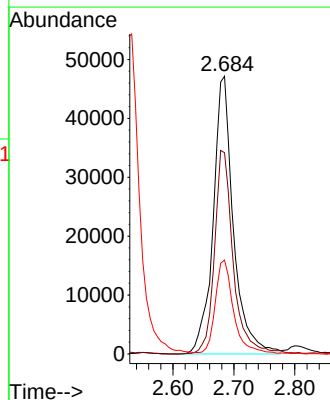
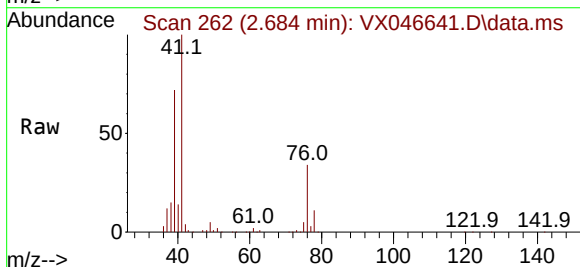
Tgt Ion: 41 Resp: 109159

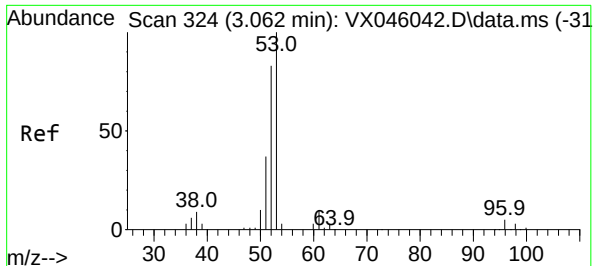
Ion Ratio Lower Upper

41 100

39 67.8 60.6 90.8

76 30.9 24.9 37.3





#15

Acrylonitrile

Concen: 306.193 ug/l

RT: 3.081 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion: 53 Resp: 18473

Ion Ratio Lower Upper

53 100

52 82.8 65.3 97.9

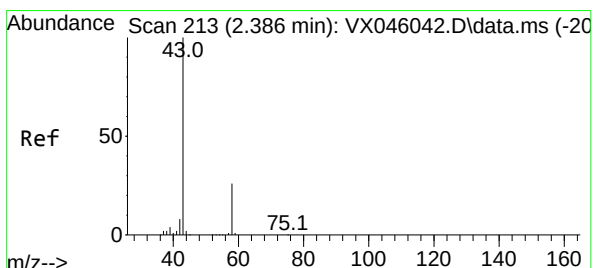
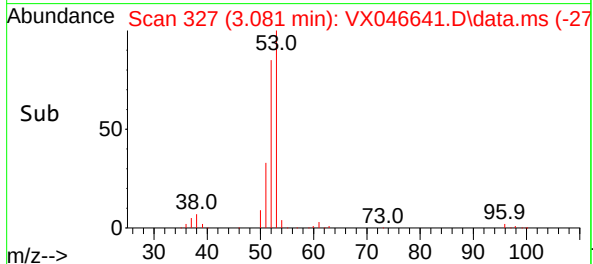
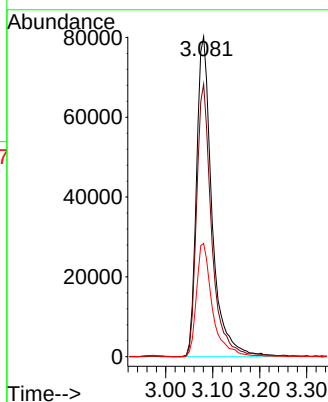
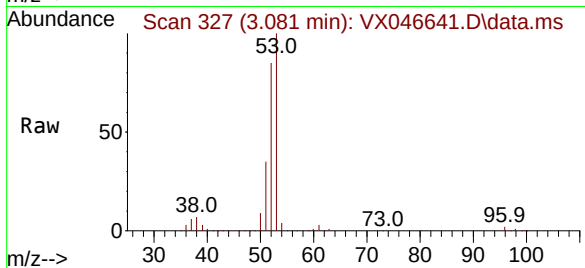
51 36.7 29.8 44.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#16

Acetone

Concen: 345.230 ug/l

RT: 2.392 min Scan# 214

Delta R.T. -0.000 min

Lab File: VX046641.D

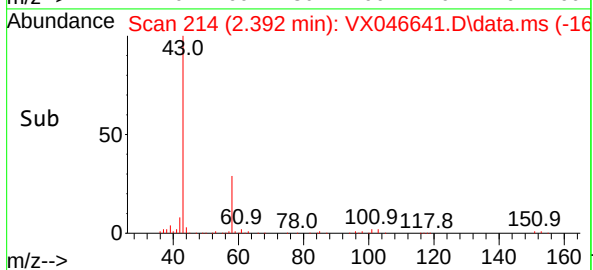
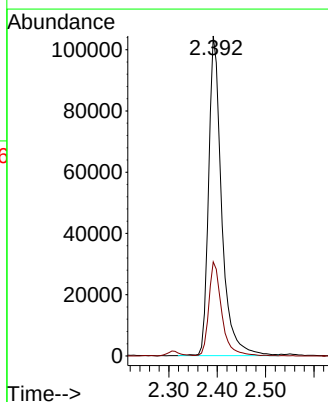
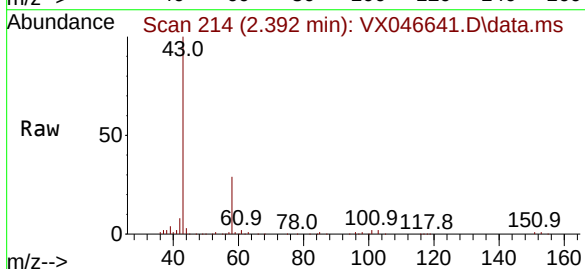
Acq: 11 Jun 2025 16:47

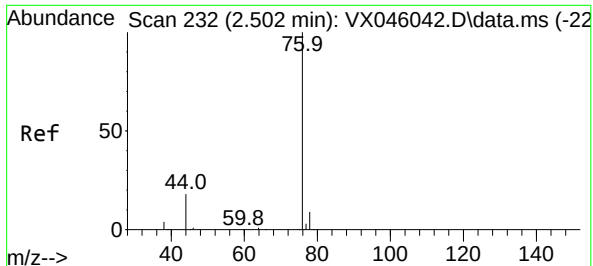
Tgt Ion: 43 Resp: 195958

Ion Ratio Lower Upper

43 100

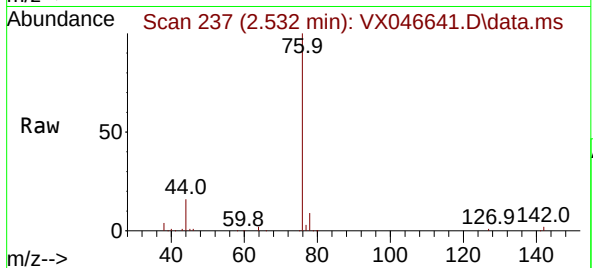
58 29.4 21.2 31.8





#17
Carbon Disulfide
Concen: 52.862 ug/l
RT: 2.532 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

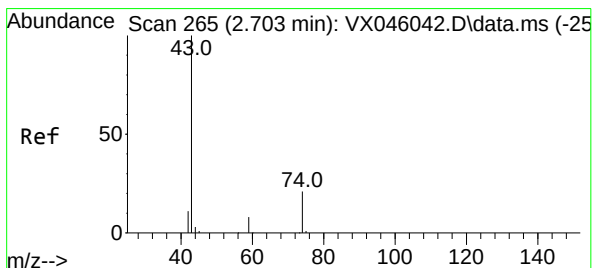
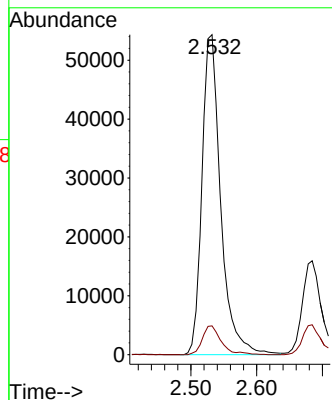
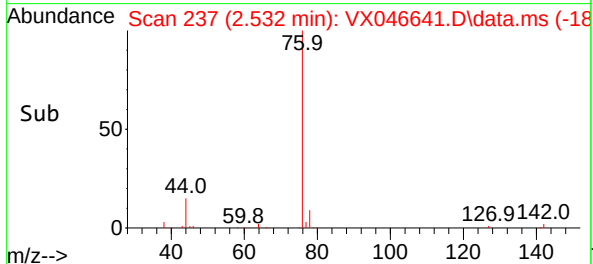
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS



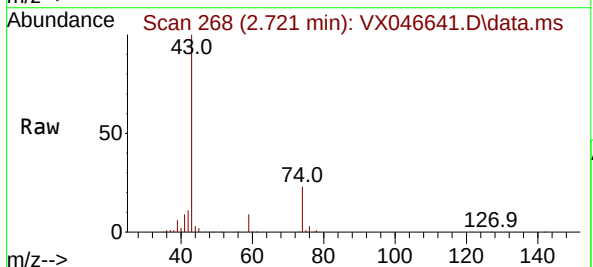
Tgt Ion: 76 Resp: 107730
Ion Ratio Lower Upper
76 100
78 9.0 7.0 10.4

Manual Integrations
APPROVED

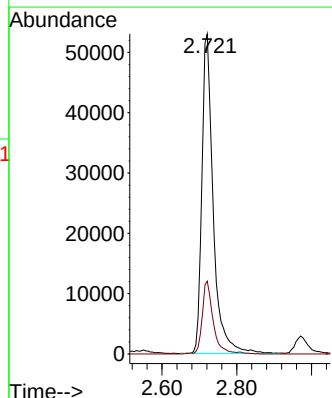
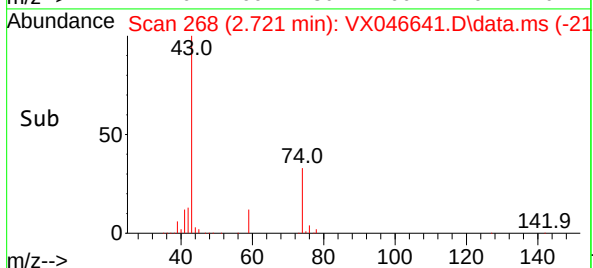
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

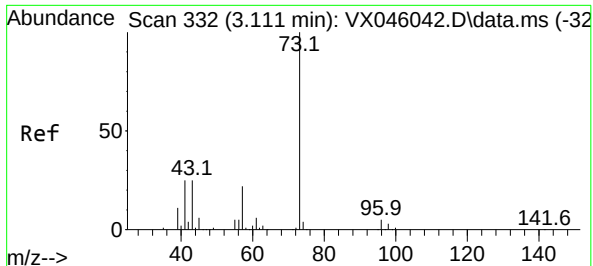


#18
Methyl Acetate
Concen: 65.298 ug/l
RT: 2.721 min Scan# 268
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47



Tgt Ion: 43 Resp: 111849
Ion Ratio Lower Upper
43 100
74 22.1 16.7 25.1





#19

Methyl tert-butyl Ether

Concen: 62.775 ug/l

RT: 3.129 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion: 73 Resp: 210789

Ion Ratio Lower Upper

73 100

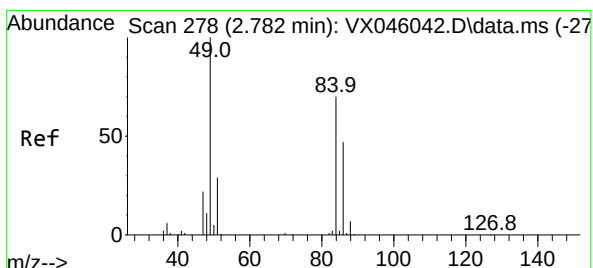
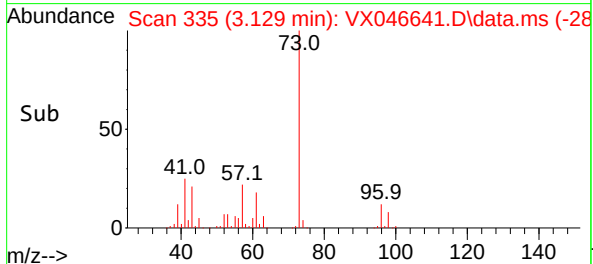
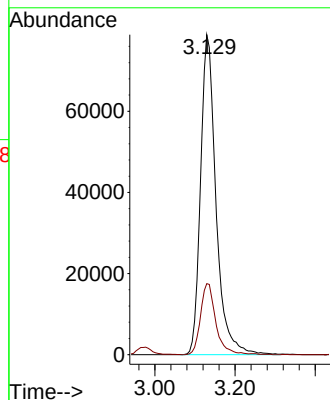
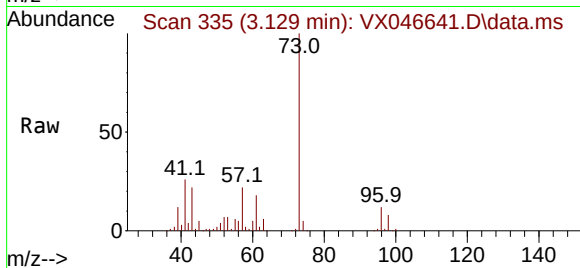
57 22.2 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#20

Methylene Chloride

Concen: 55.503 ug/l

RT: 2.806 min Scan# 282

Delta R.T. 0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Tgt Ion: 84 Resp: 64032

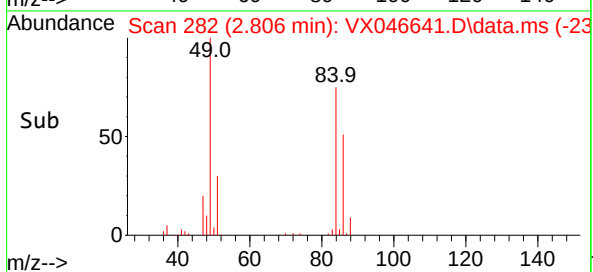
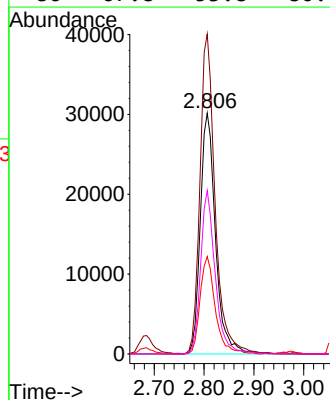
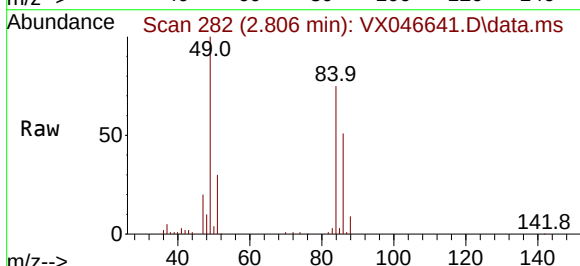
Ion Ratio Lower Upper

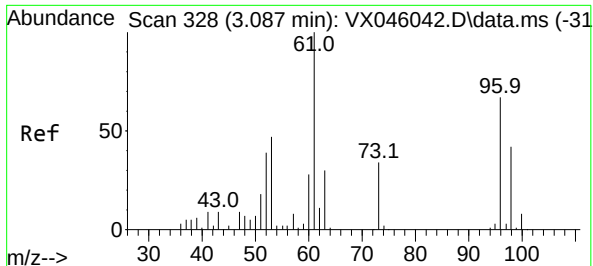
84 100

49 132.5 113.9 170.9

51 40.4 33.5 50.3

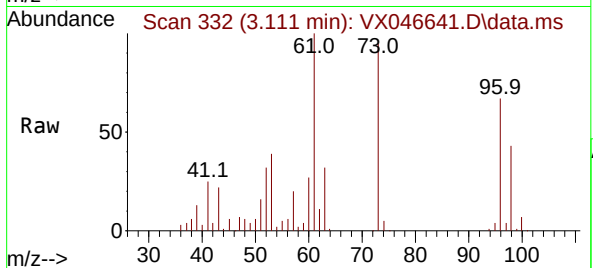
86 67.8 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 54.825 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

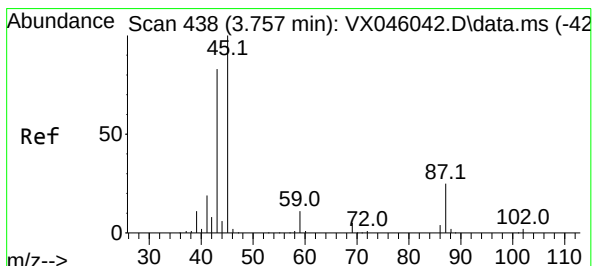
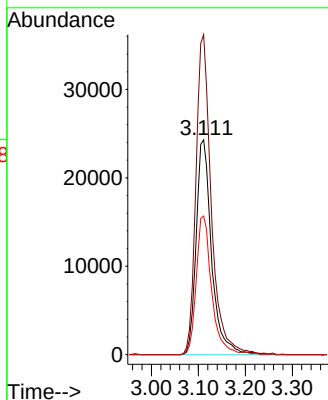
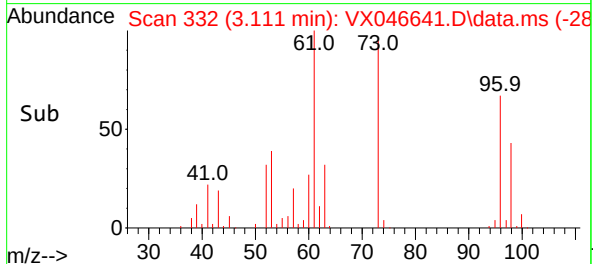
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS



Tgt Ion: 96 Resp: 55678
Ion Ratio Lower Upper
96 100
61 148.9 119.5 179.3
98 64.5 50.0 75.0

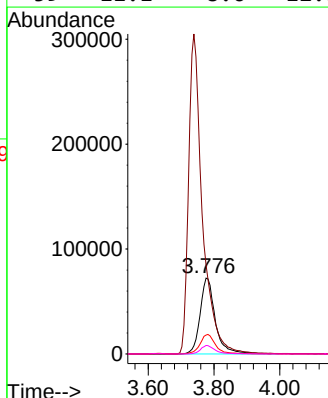
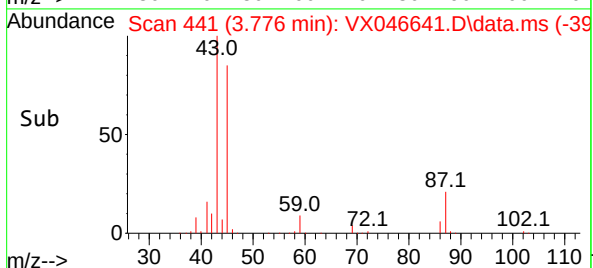
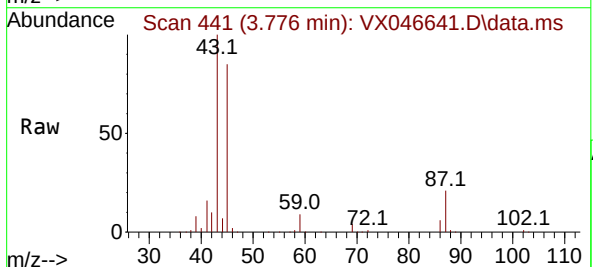
Manual Integrations
APPROVED

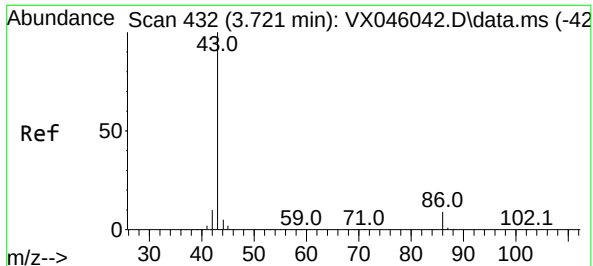
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#22
Diisopropyl ether
Concen: 62.491 ug/l
RT: 3.776 min Scan# 441
Delta R.T. -0.006 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

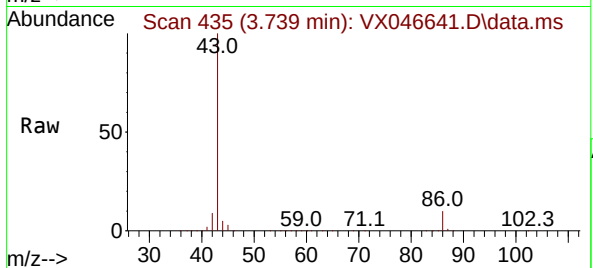
Tgt Ion: 45 Resp: 232197
Ion Ratio Lower Upper
45 100
43 117.1 66.6 100.0#
87 24.8 19.8 29.6
59 11.1 8.6 12.8





#23
Vinyl Acetate
Concen: 311.614 ug/l
RT: 3.739 min Scan# 417
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

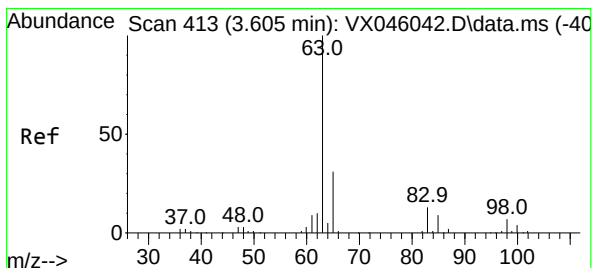
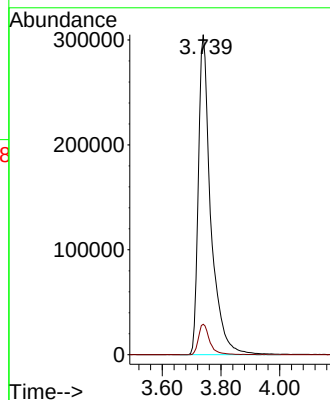
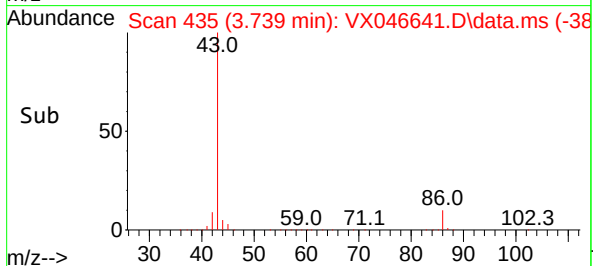
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS



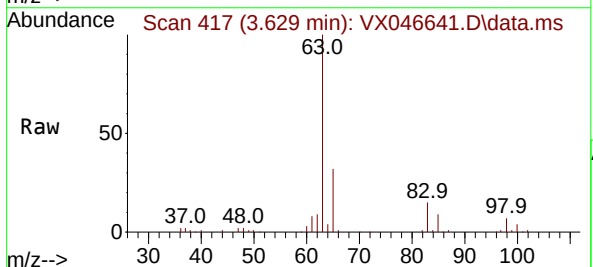
Tgt Ion: 43 Resp: 893940
Ion Ratio Lower Upper
43 100
86 9.5 7.5 11.3

Manual Integrations
APPROVED

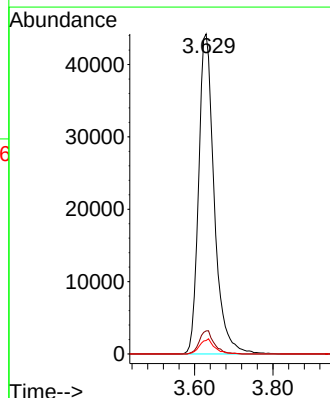
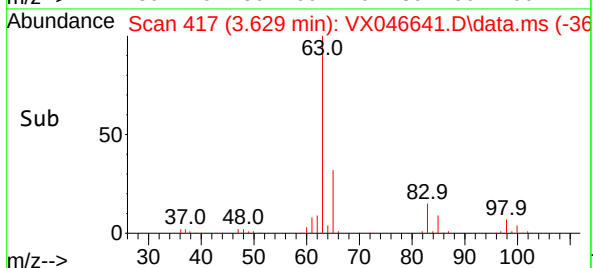
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

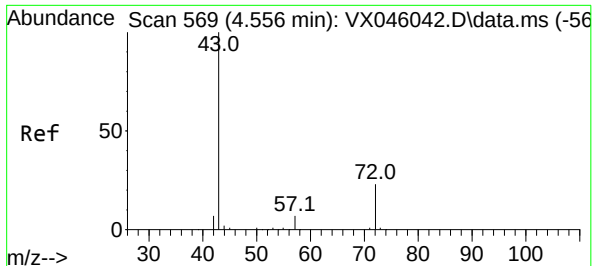


#24
1,1-Dichloroethane
Concen: 59.165 ug/l
RT: 3.629 min Scan# 417
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47



Tgt Ion: 63 Resp: 122523
Ion Ratio Lower Upper
63 100
98 7.2 3.6 10.8
100 4.2 2.1 6.3





#25

2-Butanone

Concen: 316.735 ug/l

RT: 4.568 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion: 43 Resp: 253554

Ion Ratio Lower Upper

43 100

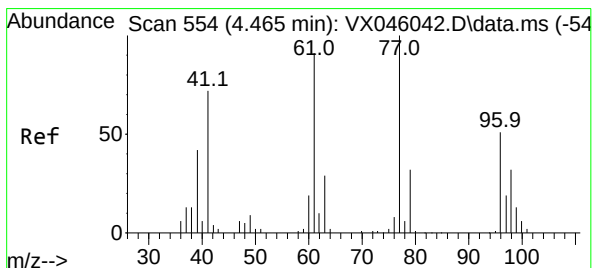
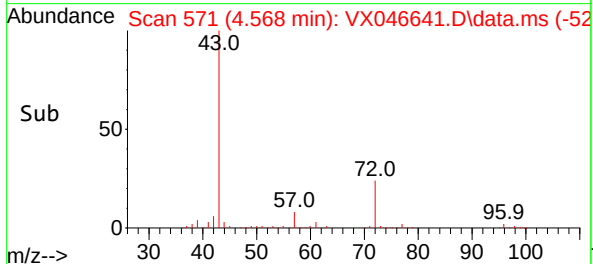
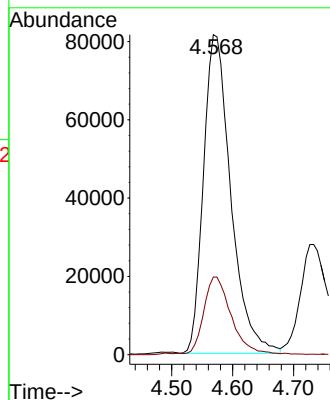
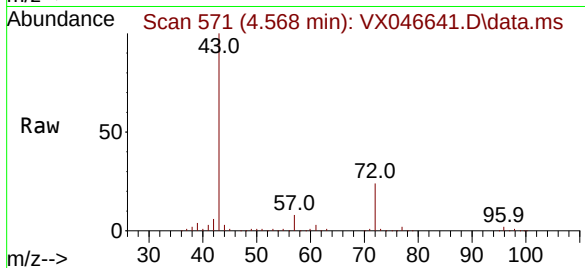
72 24.0 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#26

2,2-Dichloropropane

Concen: 61.723 ug/l

RT: 4.495 min Scan# 559

Delta R.T. 0.000 min

Lab File: VX046641.D

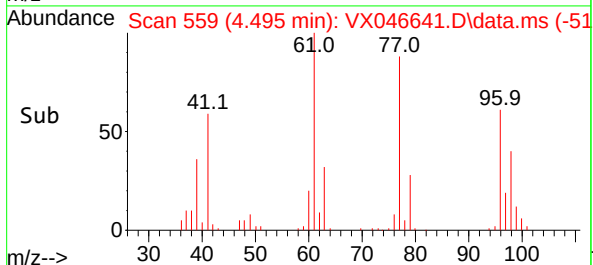
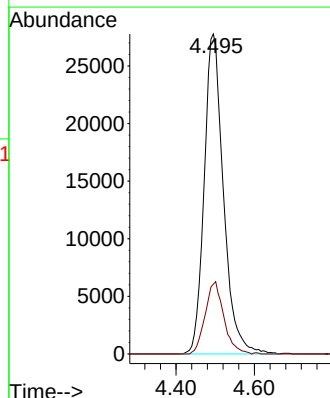
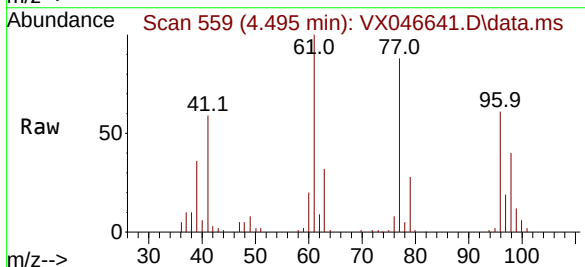
Acq: 11 Jun 2025 16:47

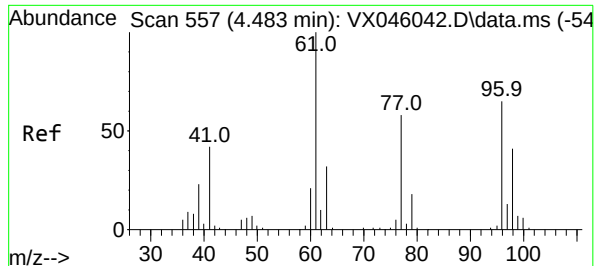
Tgt Ion: 77 Resp: 94890

Ion Ratio Lower Upper

77 100

97 21.9 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 58.828 ug/l

RT: 4.507 min Scan# 5

Delta R.T. 0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion: 96 Resp: 73540

Ion Ratio Lower Upper

96 100

61 154.1 0.0 322.8

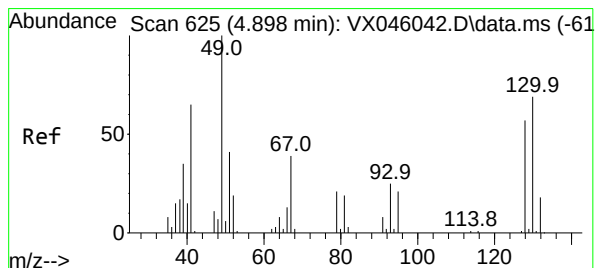
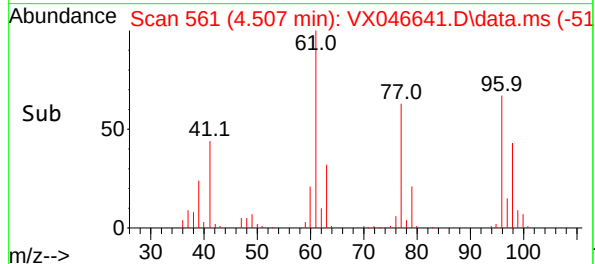
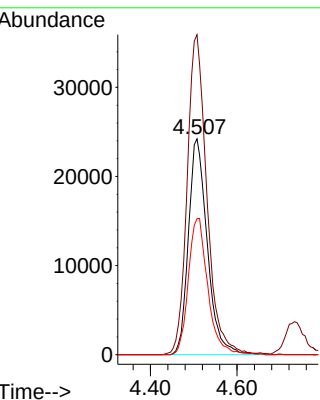
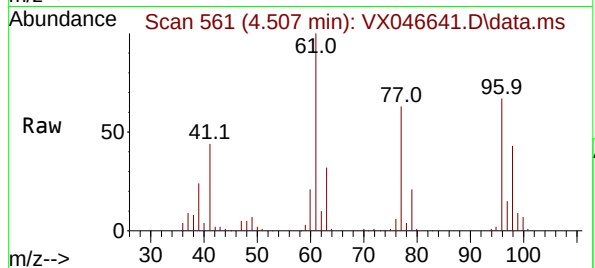
98 65.0 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#28

Bromochloromethane

Concen: 54.024 ug/l

RT: 4.916 min Scan# 628

Delta R.T. -0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

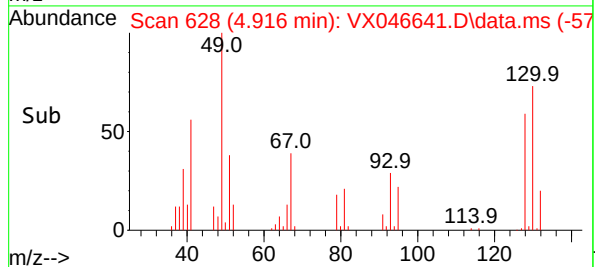
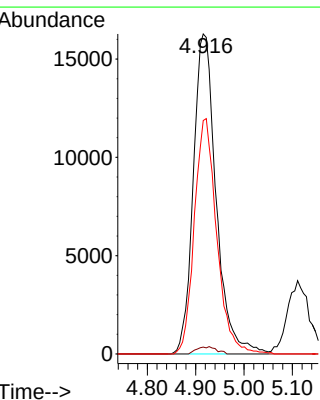
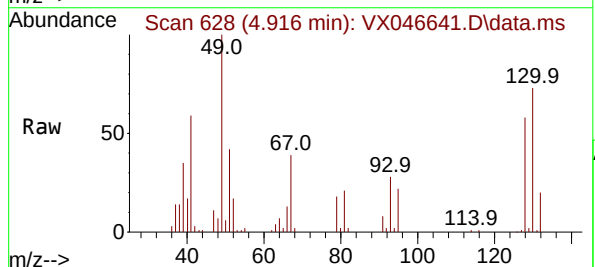
Tgt Ion: 49 Resp: 53361

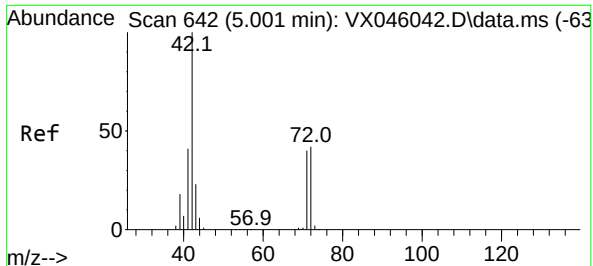
Ion Ratio Lower Upper

49 100

129 2.0 0.0 4.0

130 72.2 56.2 84.2





#29

Tetrahydrofuran

Concen: 297.136 ug/l

RT: 5.019 min Scan# 64

Delta R.T. 0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion: 42 Resp: 150219

Ion Ratio Lower Upper

42 100

72 43.6 33.7 50.5

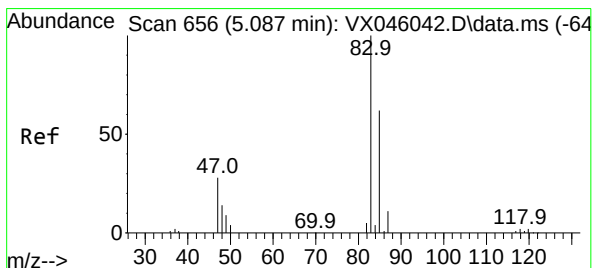
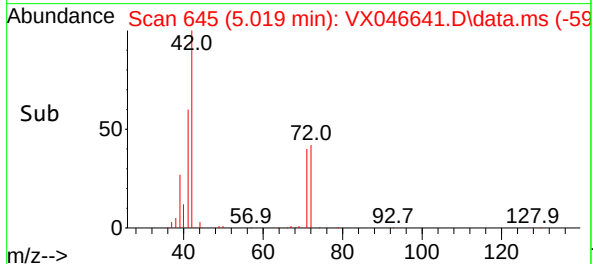
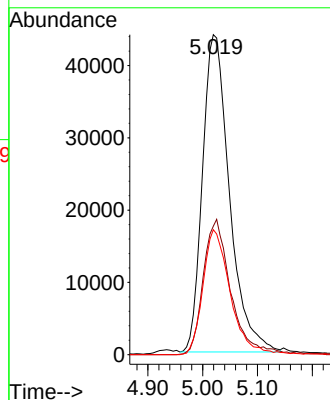
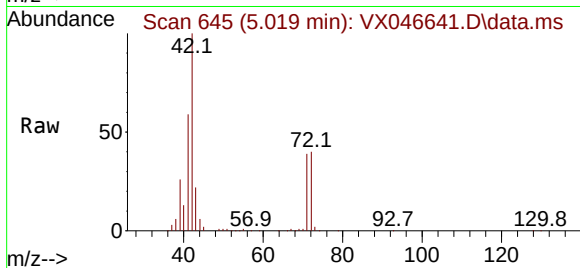
71 39.9 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#30

Chloroform

Concen: 63.094 ug/l

RT: 5.111 min Scan# 660

Delta R.T. -0.000 min

Lab File: VX046641.D

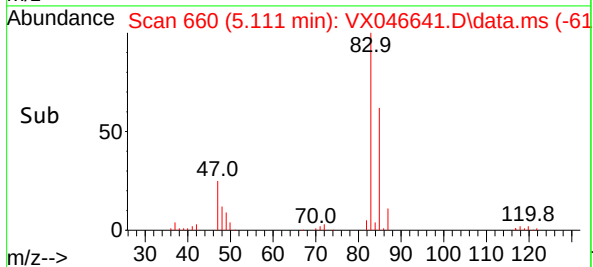
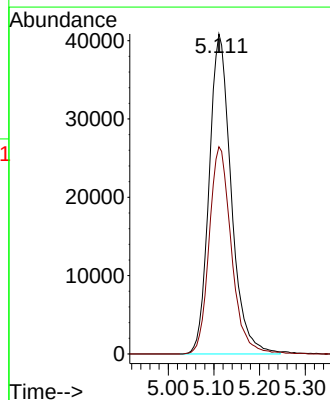
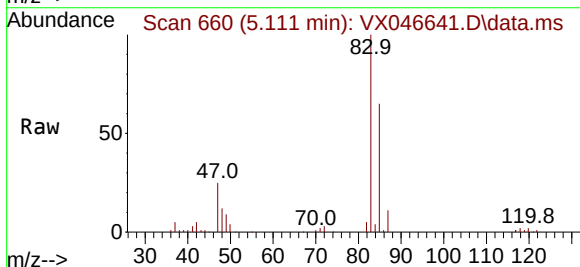
Acq: 11 Jun 2025 16:47

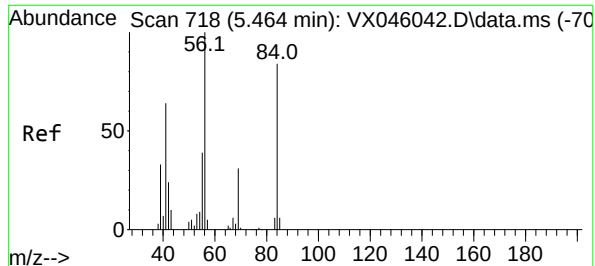
Tgt Ion: 83 Resp: 136904

Ion Ratio Lower Upper

83 100

85 64.7 49.3 73.9





#31

Cyclohexane

Concen: 55.934 ug/l

RT: 5.489 min Scan# 718

Delta R.T. -0.000 min

Lab File: VX046641.D

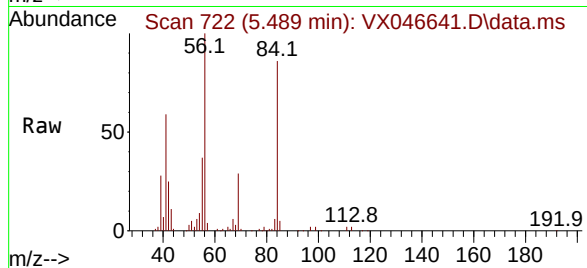
Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS



Tgt Ion: 56 Resp: 9351

Ion Ratio Lower Upper

56 100

69 28.6 24.4 36.6

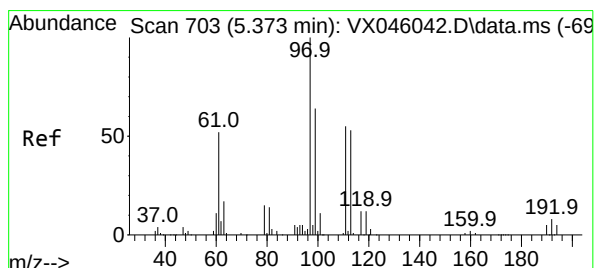
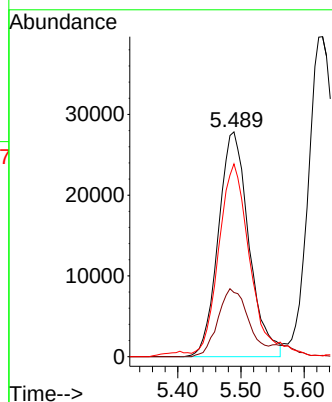
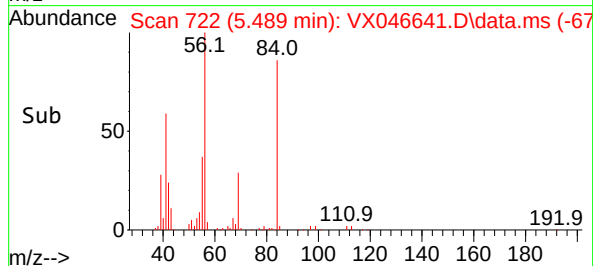
84 83.4 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#32

1,1,1-Trichloroethane

Concen: 59.274 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

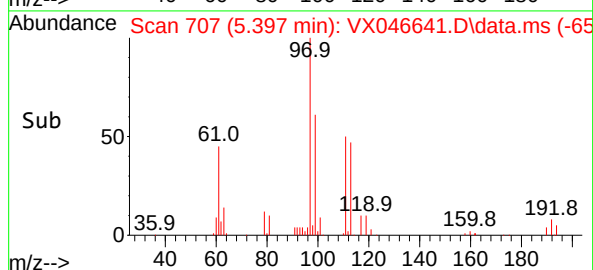
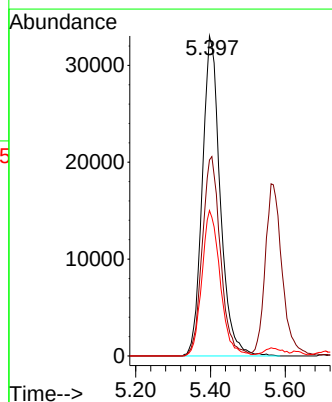
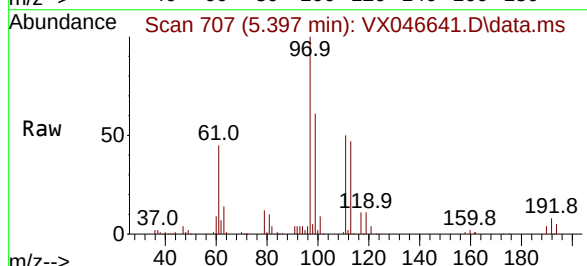
Tgt Ion: 97 Resp: 110017

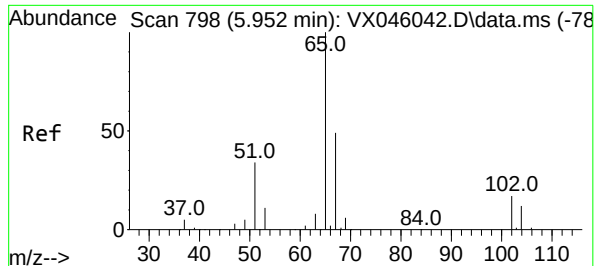
Ion Ratio Lower Upper

97 100

99 63.4 51.8 77.6

61 46.5 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 47.518 ug/l

RT: 5.970 min Scan# 801

Delta R.T. 0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion: 65 Resp: 6833

Ion Ratio Lower Upper

65 100

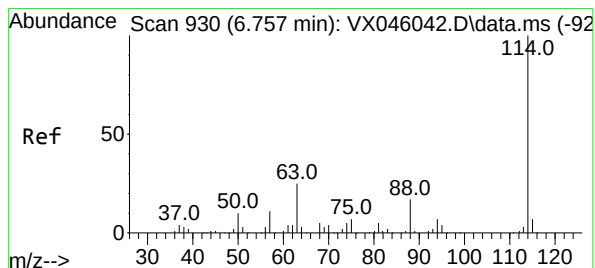
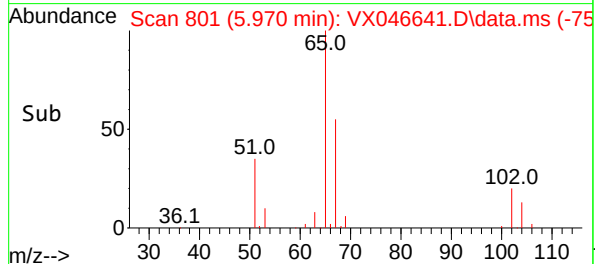
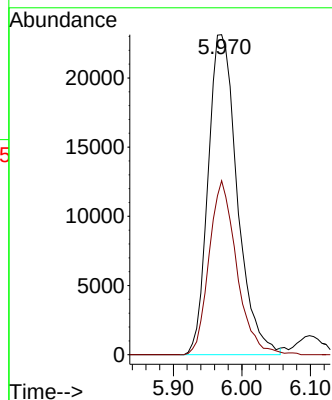
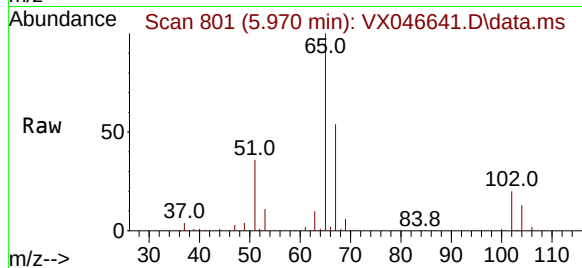
67 51.5 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.006 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

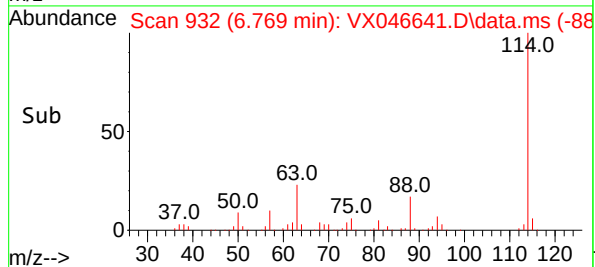
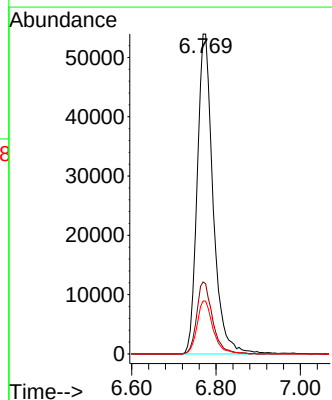
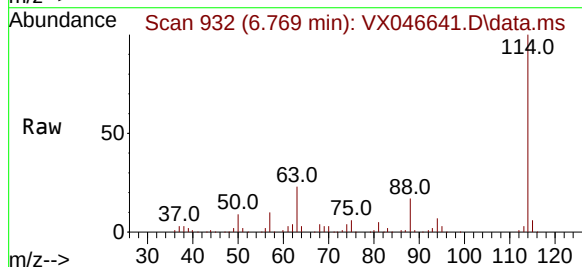
Tgt Ion:114 Resp: 141022

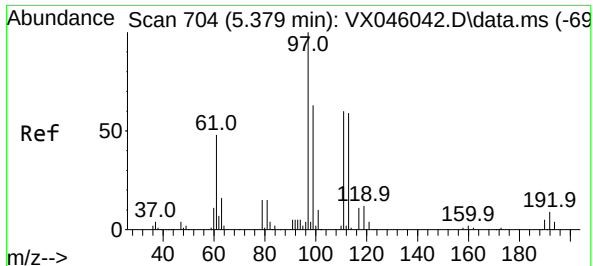
Ion Ratio Lower Upper

114 100

63 22.5 0.0 49.2

88 16.6 0.0 33.6





#35

Dibromofluoromethane

Concen: 52.208 ug/l

RT: 5.403 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX046641.D

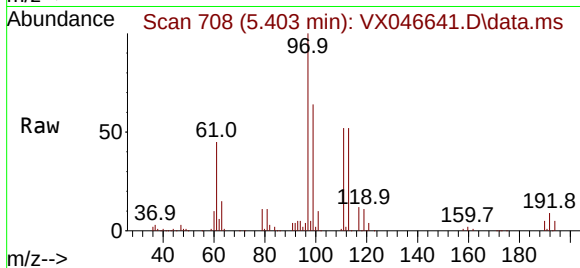
Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

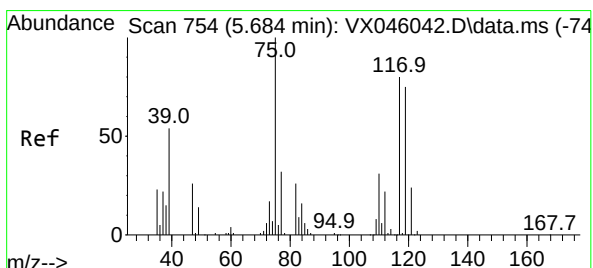
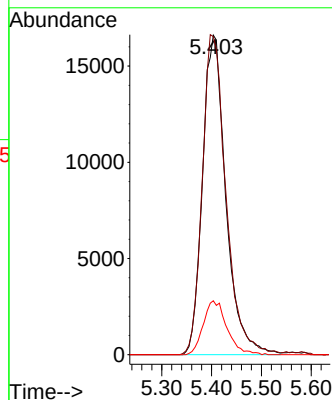
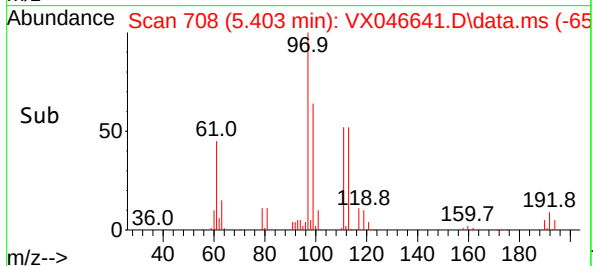


Tgt Ion:	113	Resp:	5414
Ion	Ratio	Lower	Upper
113	100		
111	101.4	83.1	124.7
192	17.1	13.3	19.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#36

1,1-Dichloropropene

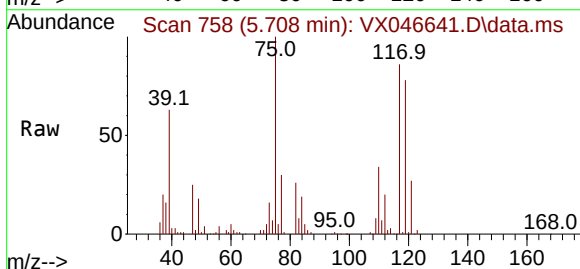
Concen: 53.163 ug/l

RT: 5.708 min Scan# 758

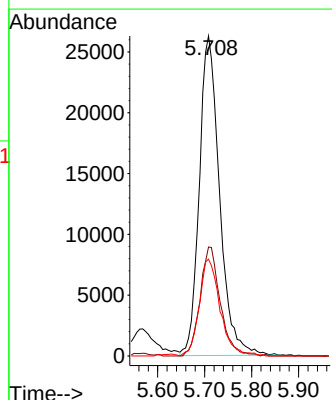
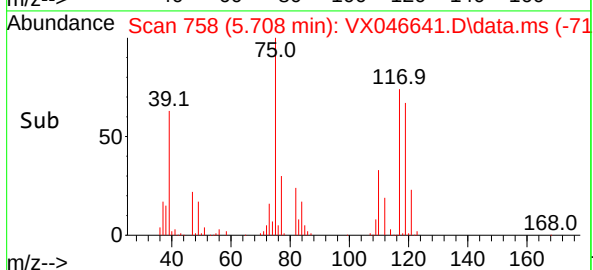
Delta R.T. -0.006 min

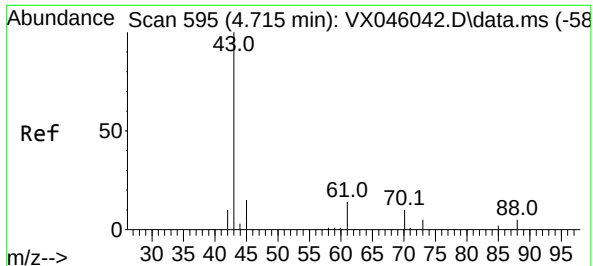
Lab File: VX046641.D

Acq: 11 Jun 2025 16:47



Tgt Ion:	75	Resp:	78754
Ion	Ratio	Lower	Upper
75	100		
110	33.9	16.3	48.9
77	30.7	24.3	36.5





#37

Ethyl Acetate

Concen: 65.323 ug/l

RT: 4.733 min Scan# 595

Delta R.T. -0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

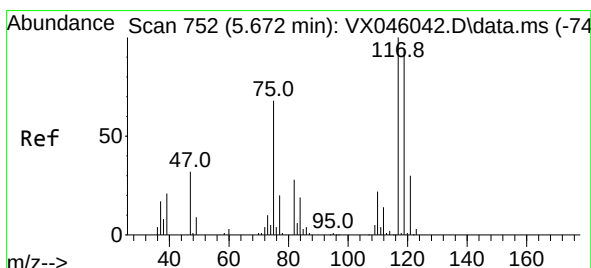
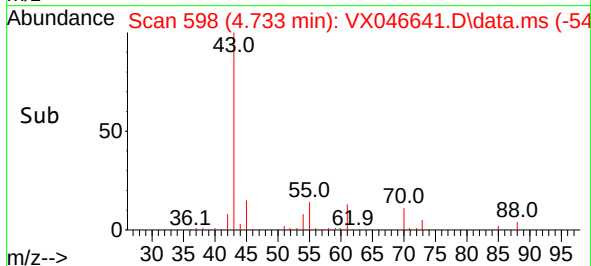
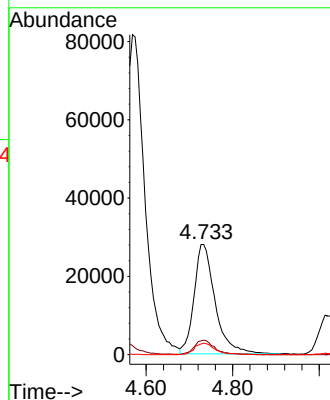
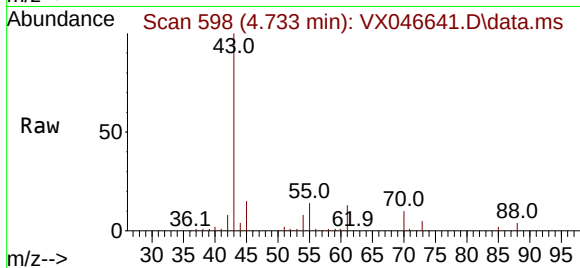
ClientSampleId :

GW-MW01-060425MS

Tgt Ion:	43	Resp:	9444
Ion	Ratio	Lower	Upper
43	100		
61	13.0	10.3	15.5
70	10.4	7.9	11.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#38

Carbon Tetrachloride

Concen: 56.589 ug/l

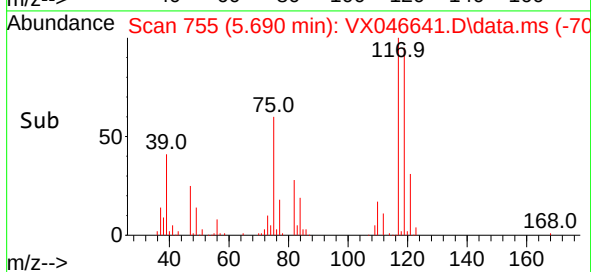
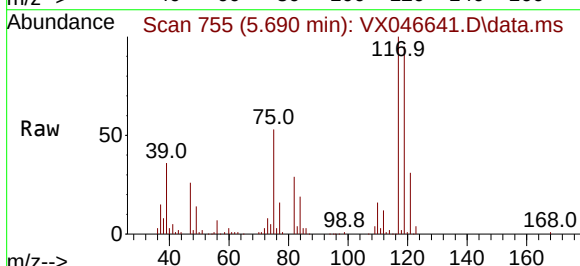
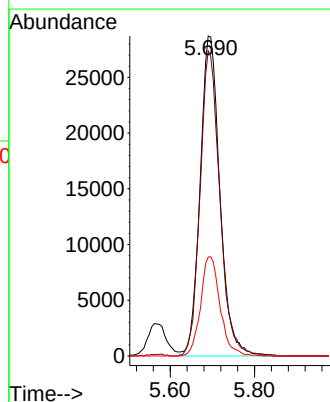
RT: 5.690 min Scan# 755

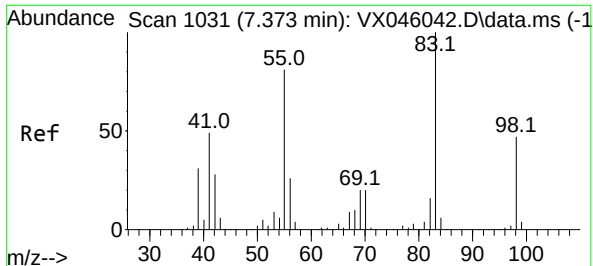
Delta R.T. -0.006 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Tgt Ion:	117	Resp:	93895
Ion	Ratio	Lower	Upper
117	100		
119	95.2	75.2	112.8
121	30.9	24.2	36.4





#39

Methylcyclohexane

Concen: 54.125 ug/l

RT: 7.391 min Scan# 1034

Delta R.T. -0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion: 83 Resp: 94639

Ion Ratio Lower Upper

83 100

55 82.1 64.7 97.1

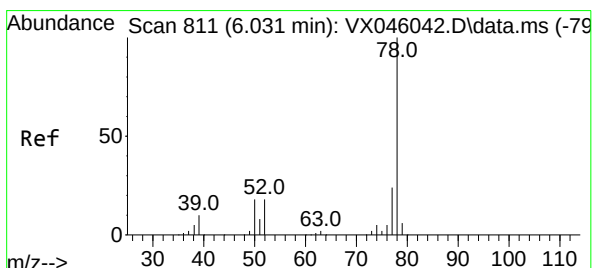
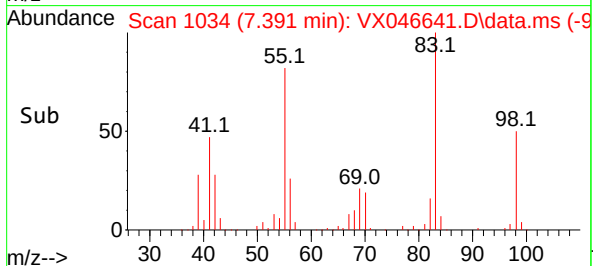
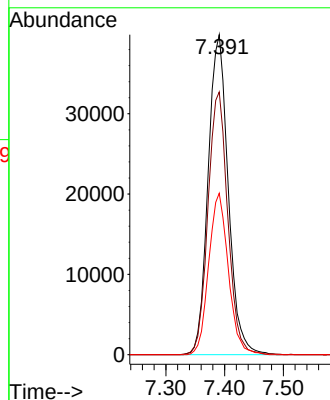
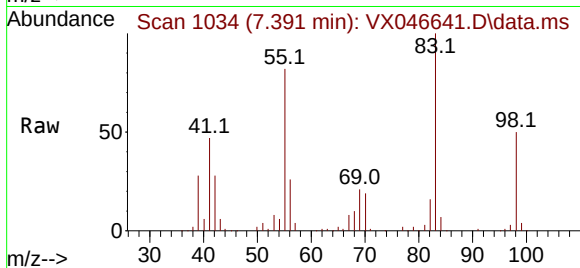
98 50.4 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#40

Benzene

Concen: 58.095 ug/l

RT: 6.050 min Scan# 814

Delta R.T. -0.006 min

Lab File: VX046641.D

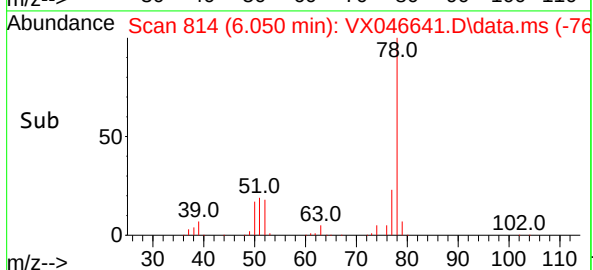
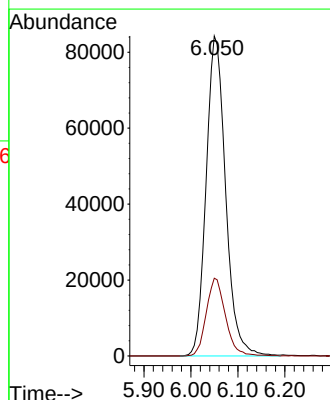
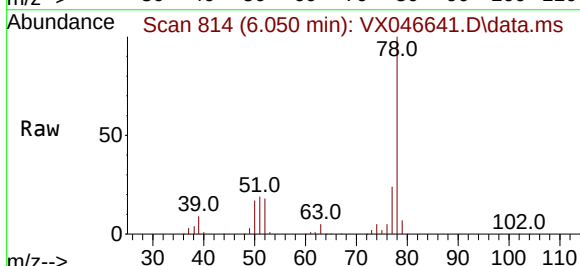
Acq: 11 Jun 2025 16:47

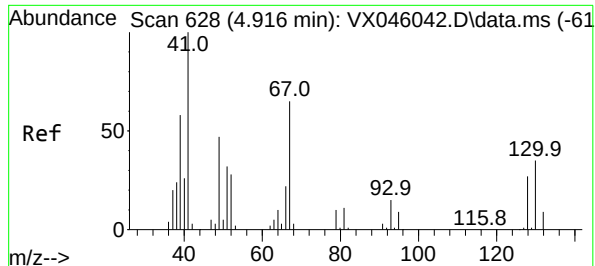
Tgt Ion: 78 Resp: 242275

Ion Ratio Lower Upper

78 100

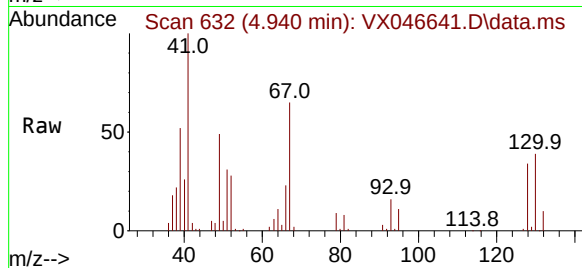
77 24.3 19.0 28.4





#41
Methacrylonitrile
Concen: 64.493 ug/l
RT: 4.940 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

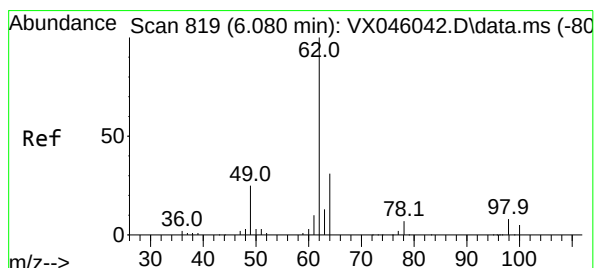
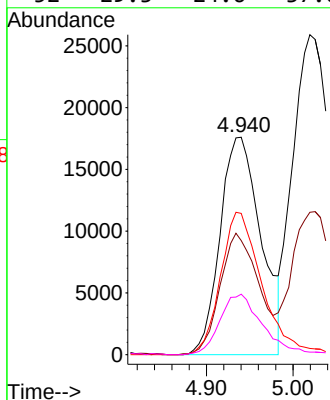
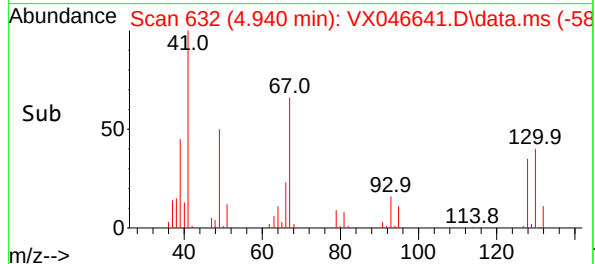
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS



Tgt Ion: 41 Resp: 57904
Ion Ratio Lower Upper
41 100
39 52.2 47.2 70.8
67 67.1 50.7 76.1
52 29.3 24.6 37.0

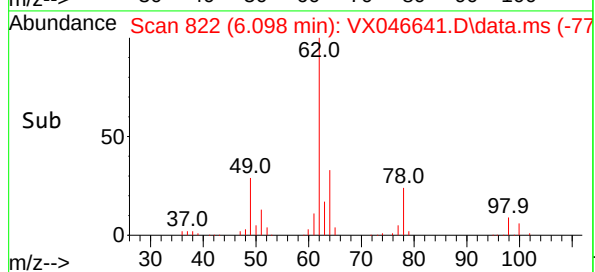
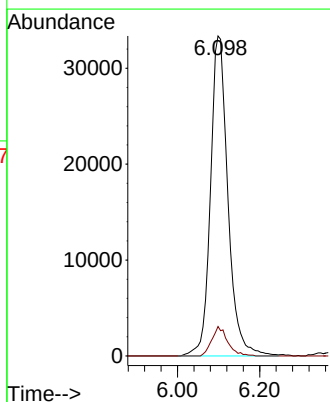
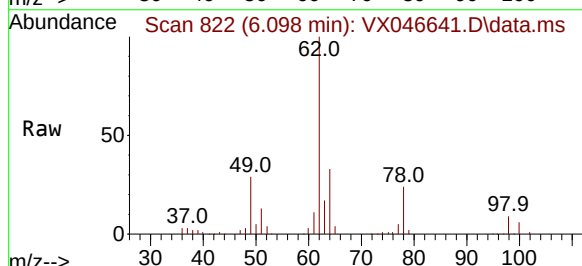
Manual Integrations
APPROVED

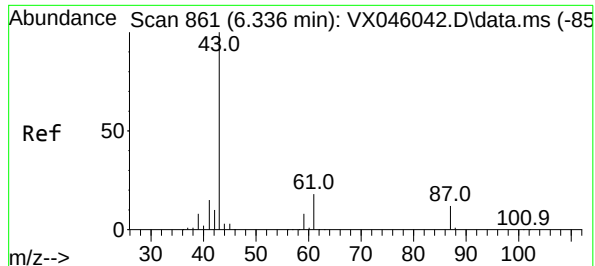
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#42
1,2-Dichloroethane
Concen: 56.705 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

Tgt Ion: 62 Resp: 98381
Ion Ratio Lower Upper
62 100
98 8.3 0.0 15.2





#43

Isopropyl Acetate

Concen: 61.754 ug/l

RT: 6.348 min Scan# 863

Delta R.T. -0.006 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion: 43 Resp: 155654

Ion Ratio Lower Upper

43 100

61 18.7

87 12.2

14.3

9.5

21.5

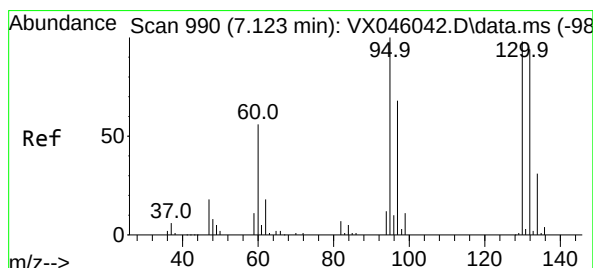
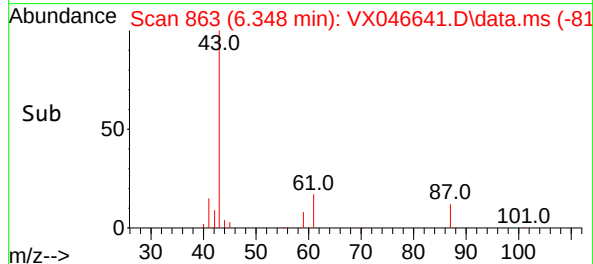
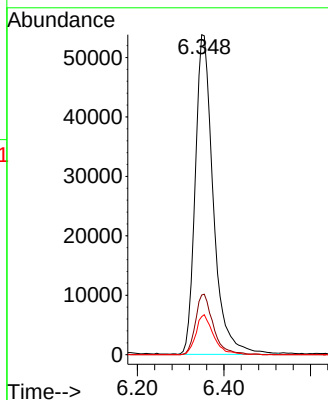
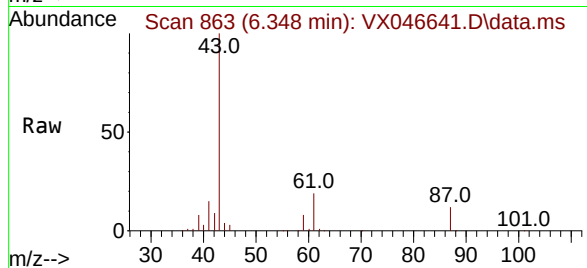
14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#44

Trichloroethene

Concen: 55.755 ug/l

RT: 7.135 min Scan# 992

Delta R.T. -0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Tgt Ion:130 Resp: 59079

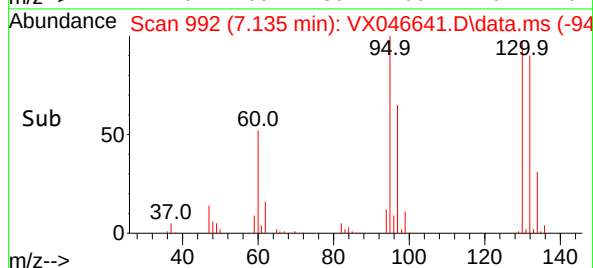
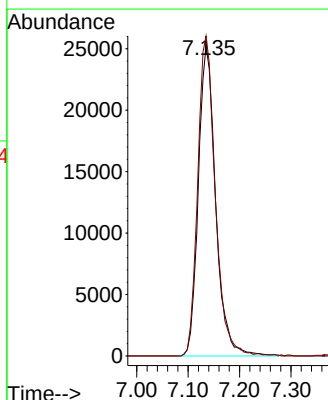
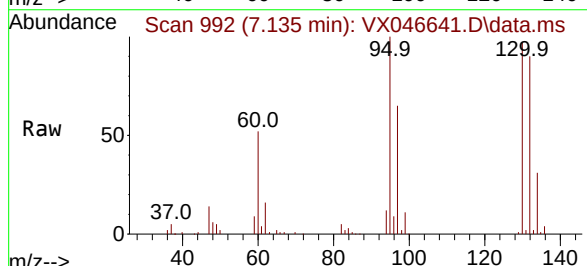
Ion Ratio Lower Upper

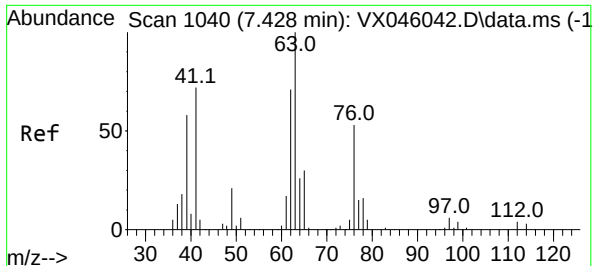
130 100

95 103.2

0.0

204.2





#45

1,2-Dichloropropane

Concen: 60.694 ug/l

RT: 7.440 min Scan# 1042

Delta R.T. -0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion: 63 Resp: 6533

Ion Ratio Lower Upper

63 100

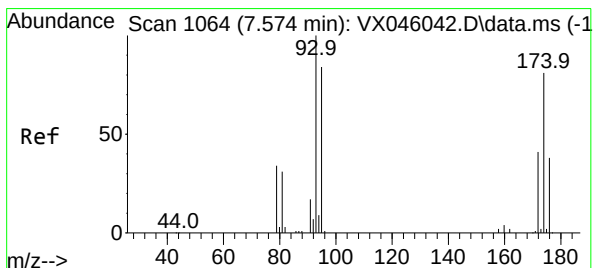
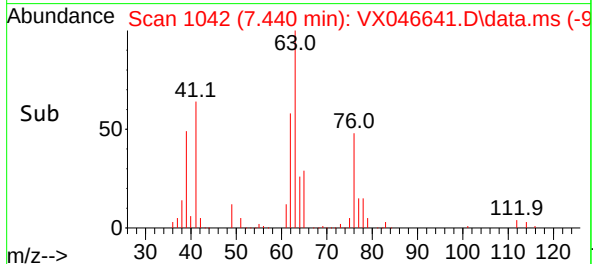
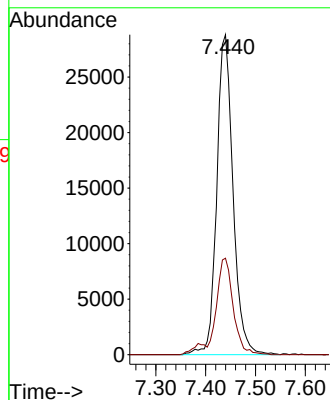
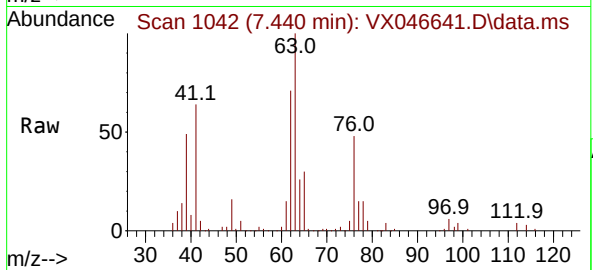
65 30.1 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#46

Dibromomethane

Concen: 59.283 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

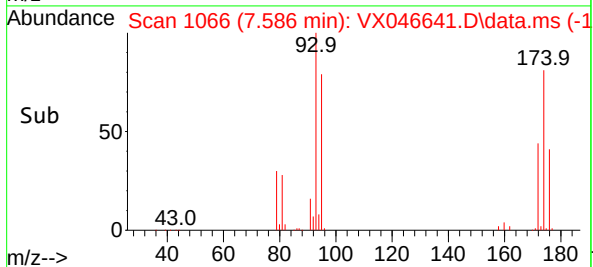
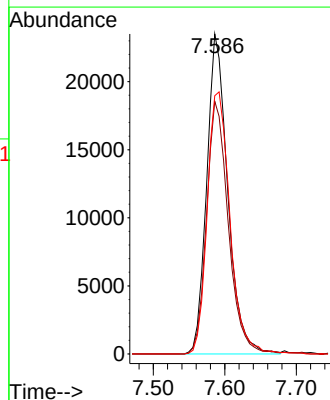
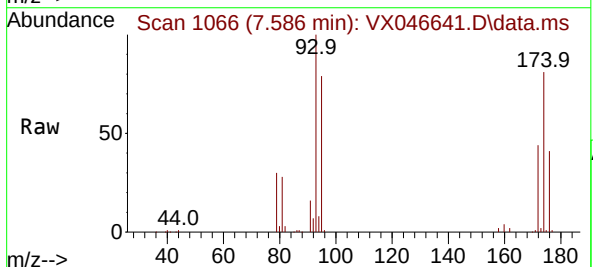
Tgt Ion: 93 Resp: 48007

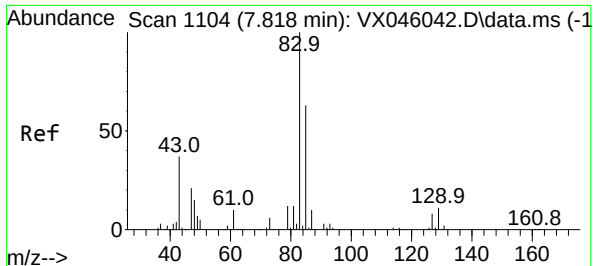
Ion Ratio Lower Upper

93 100

95 81.7 65.6 98.4

174 88.5 68.2 102.2





#47

Bromodichloromethane

Concen: 61.917 ug/l

RT: 7.830 min Scan# 1106

Delta R.T. -0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

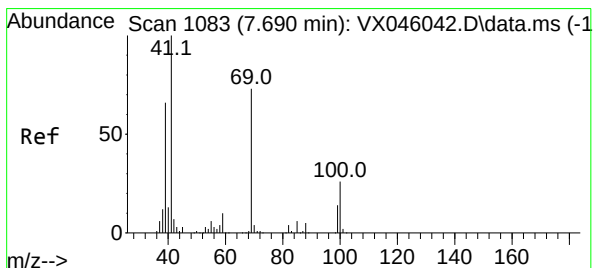
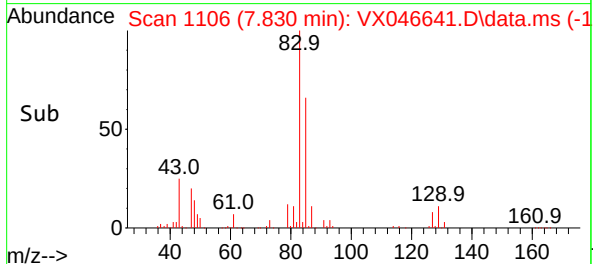
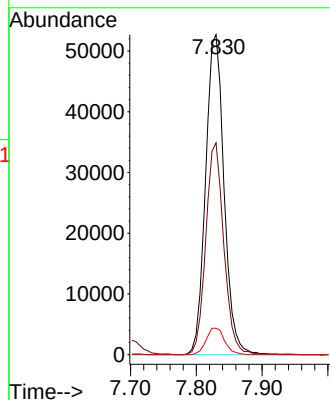
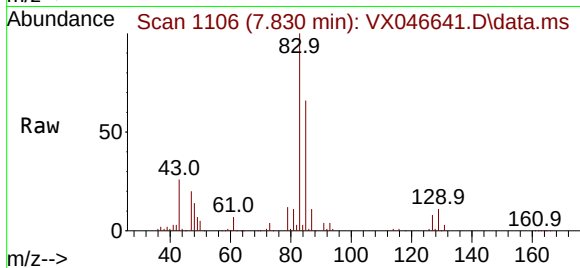
Tgt Ion:	83	Resp:	103090
Ion	Ratio	Lower	Upper
83	100		
85	66.2	50.5	75.7
127	8.3	6.5	9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#48

Methyl methacrylate

Concen: 61.780 ug/l

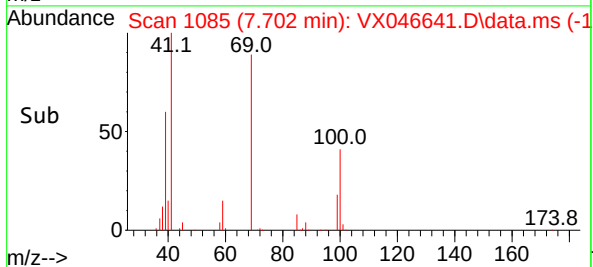
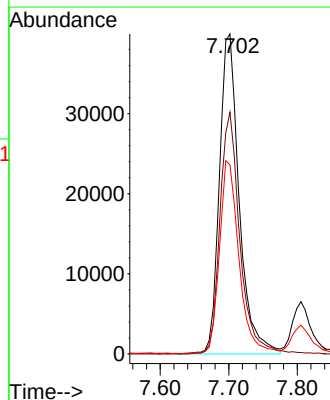
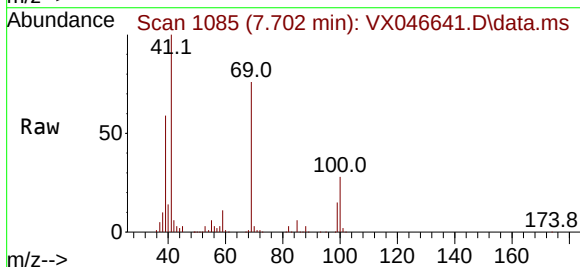
RT: 7.702 min Scan# 1085

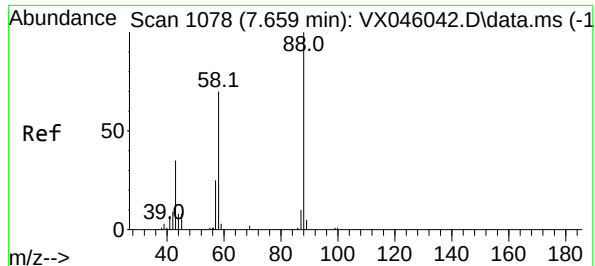
Delta R.T. -0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Tgt Ion:	41	Resp:	80120
Ion	Ratio	Lower	Upper
41	100		
69	76.1	58.5	87.7
39	59.1	51.7	77.5





#49

1,4-Dioxane

Concen: 1160.676 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. -0.006 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

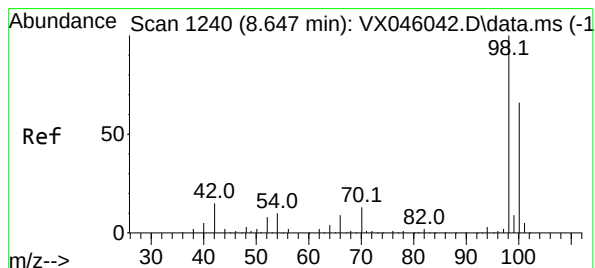
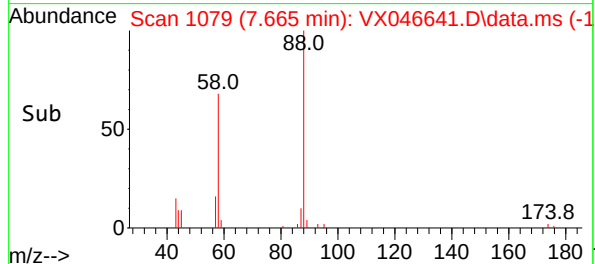
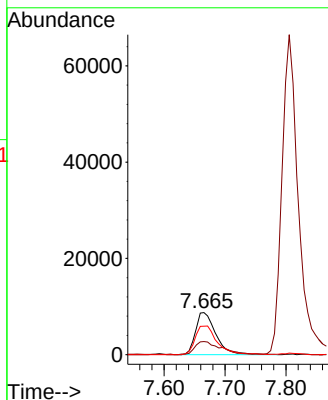
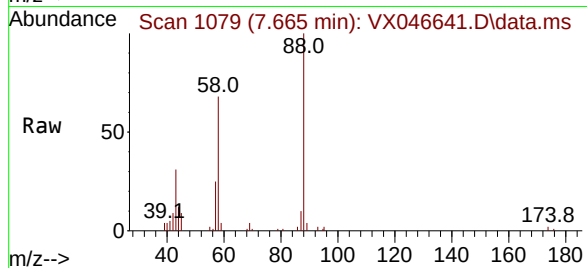
Tgt Ion:	88	Resp:	20129
Ion Ratio	Lower	Upper	
88	100		
43	41.6	33.4	50.2
58	72.8	58.6	88.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#50

Toluene-d8

Concen: 51.078 ug/l

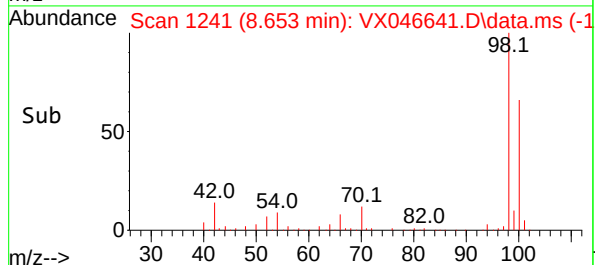
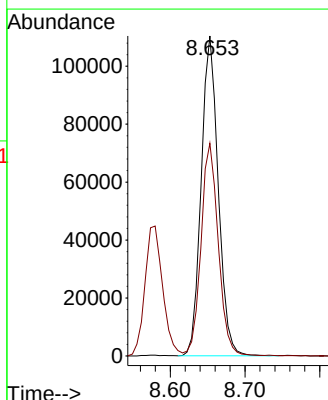
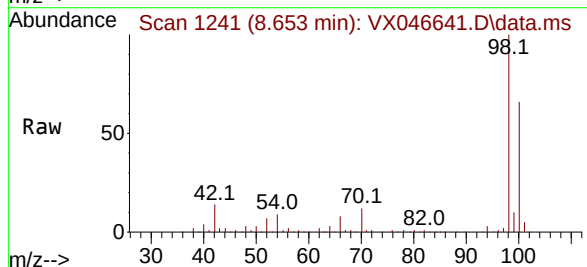
RT: 8.653 min Scan# 1241

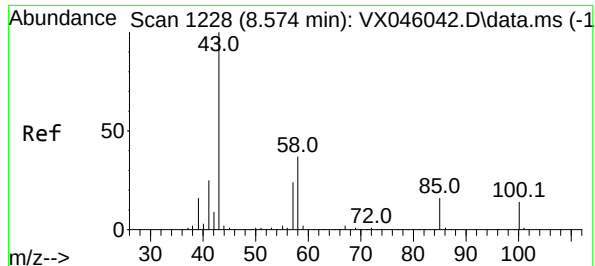
Delta R.T. -0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Tgt Ion:	98	Resp:	174641
Ion Ratio	Lower	Upper	
98	100		
100	66.9	53.5	80.3





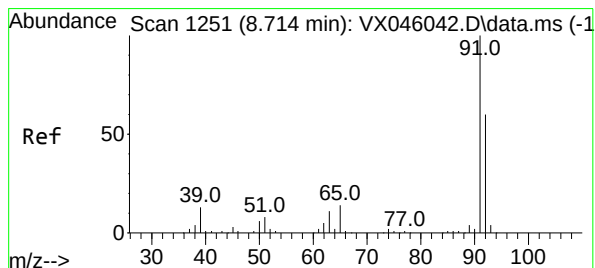
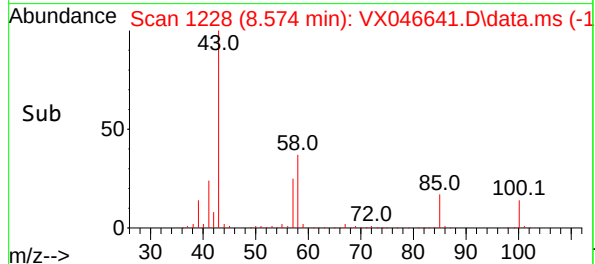
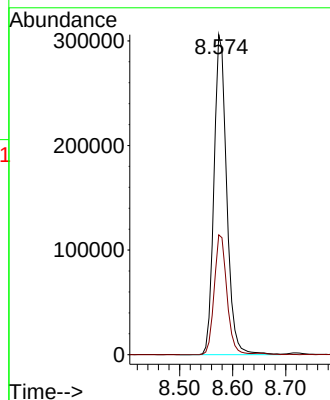
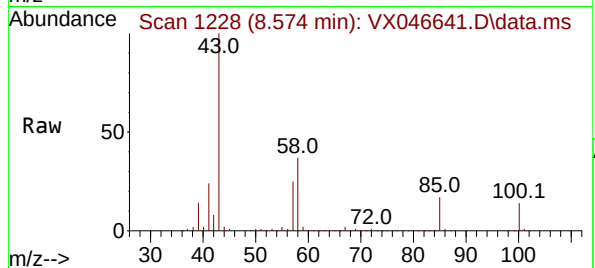
#51
4-Methyl-2-Pentanone
Concen: 318.674 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.001 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS

Tgt Ion: 43 Resp: 510424
Ion Ratio Lower Upper
43 100
58 37.3 28.9 43.3

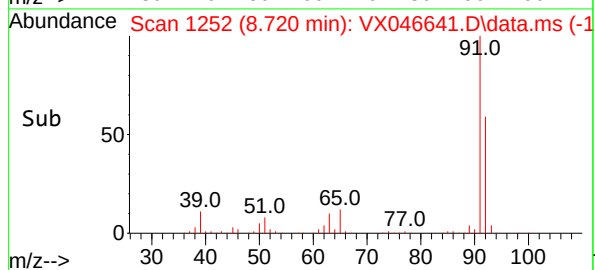
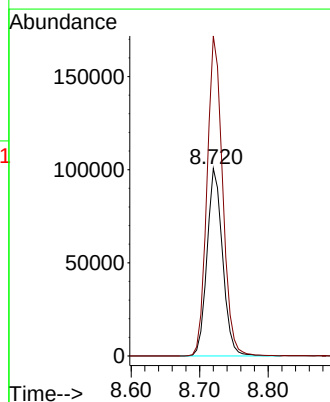
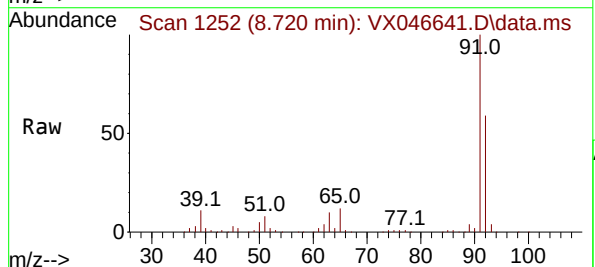
Manual Integrations
APPROVED

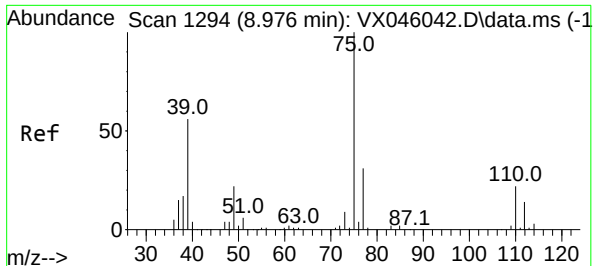
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#52
Toluene
Concen: 62.150 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

Tgt Ion: 92 Resp: 159232
Ion Ratio Lower Upper
92 100
91 171.0 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 63.598 ug/l

RT: 8.982 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion: 75 Resp: 94940

Ion Ratio Lower Upper

75 100

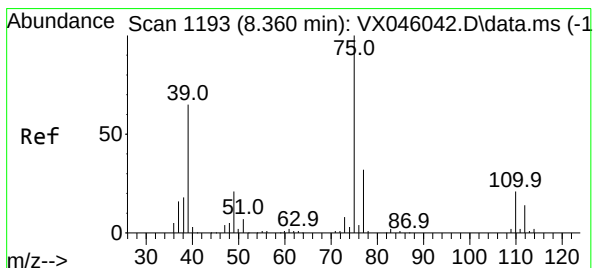
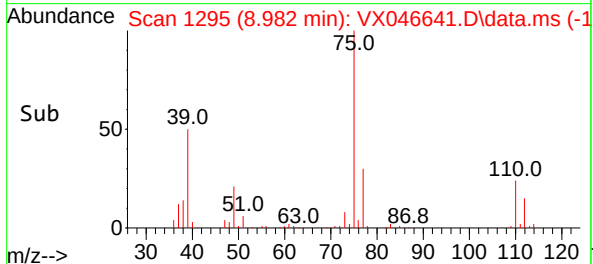
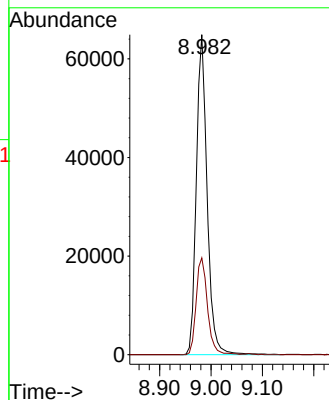
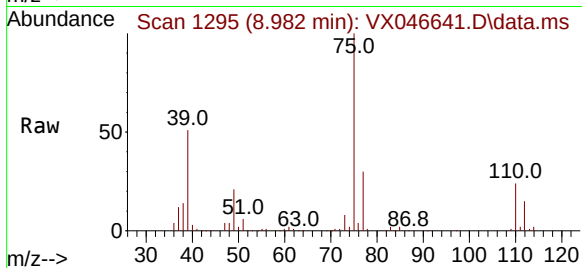
77 30.2 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#54

cis-1,3-Dichloropropene

Concen: 61.127 ug/l

RT: 8.372 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

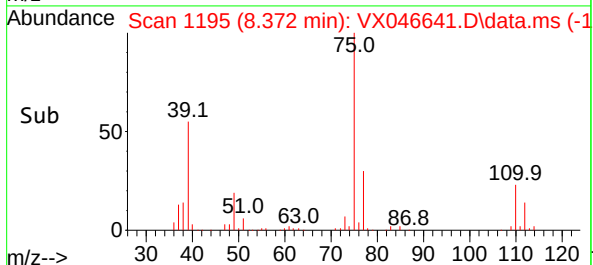
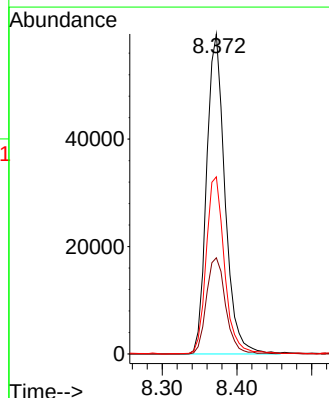
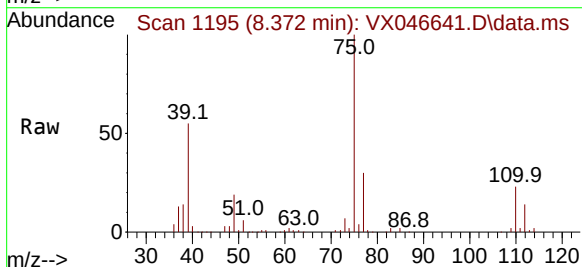
Tgt Ion: 75 Resp: 101464

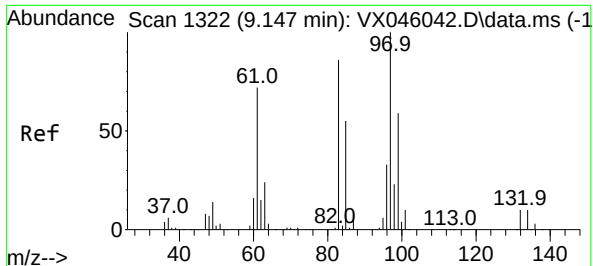
Ion Ratio Lower Upper

75 100

77 30.1 25.4 38.0

39 55.2 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 63.426 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. -0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion: 97 Resp: 65230

Ion Ratio Lower Upper

97 100

83 84.3 69.0 103.6

85 56.1 44.3 66.5

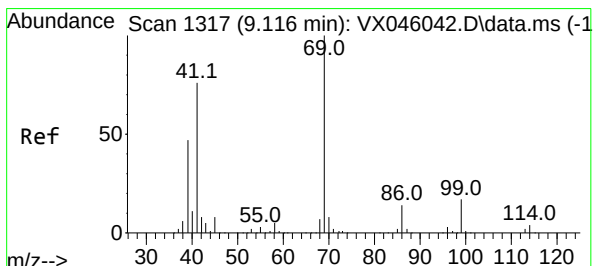
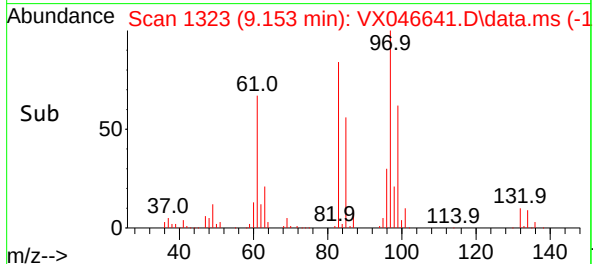
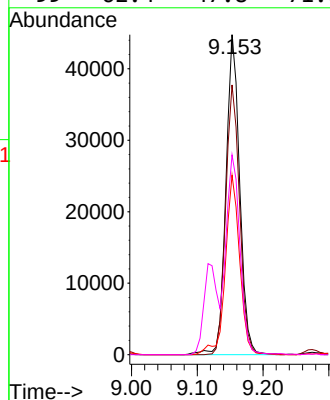
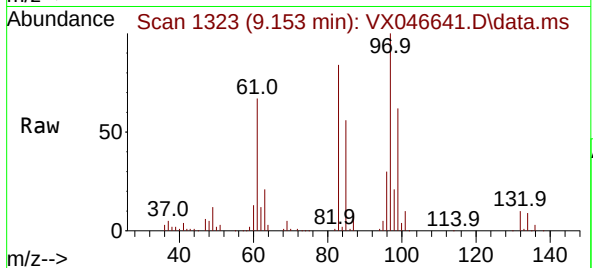
99 62.4 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#56

Ethyl methacrylate

Concen: 65.889 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

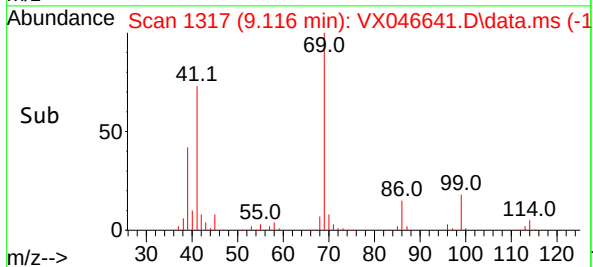
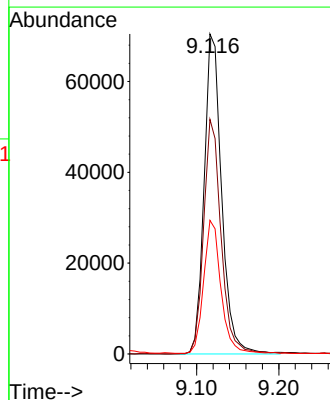
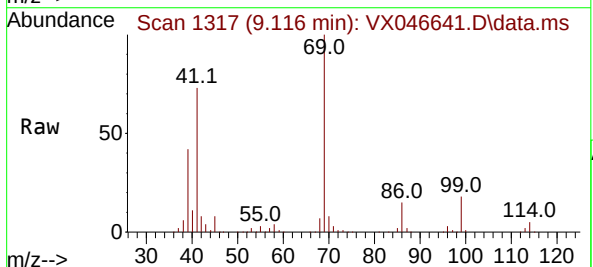
Tgt Ion: 69 Resp: 104288

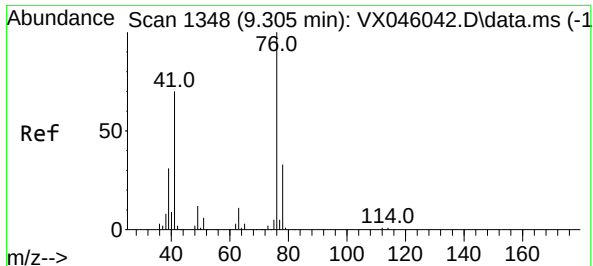
Ion Ratio Lower Upper

69 100

41 73.5 60.8 91.2

39 41.4 39.0 58.6





#57

1,3-Dichloropropane

Concen: 60.340 ug/l

RT: 9.311 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion: 76 Resp: 10967

Ion Ratio Lower Upper

76 100

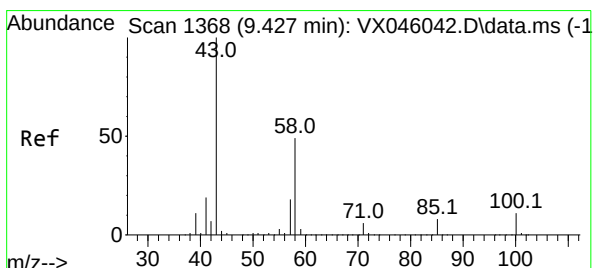
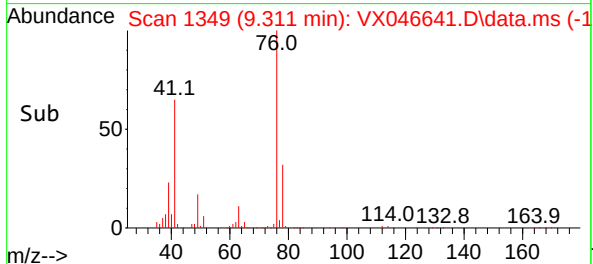
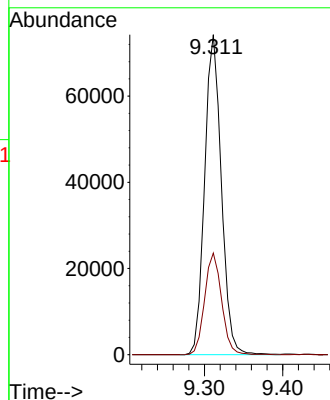
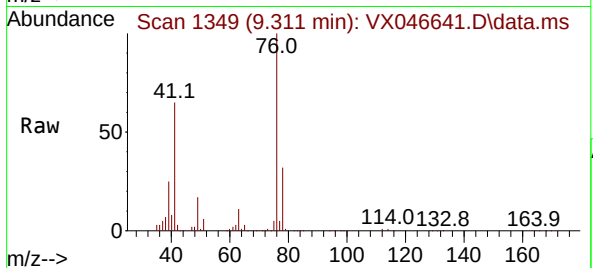
78 32.3 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#59

2-Hexanone

Concen: 318.711 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX046641.D

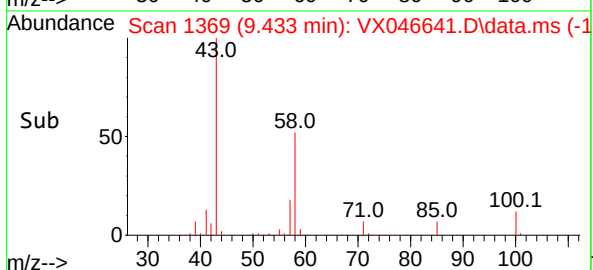
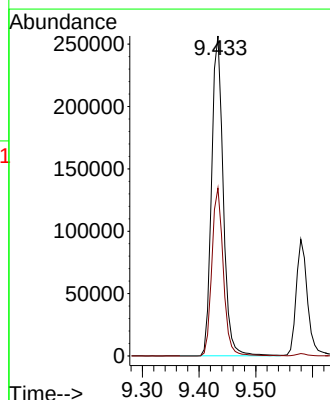
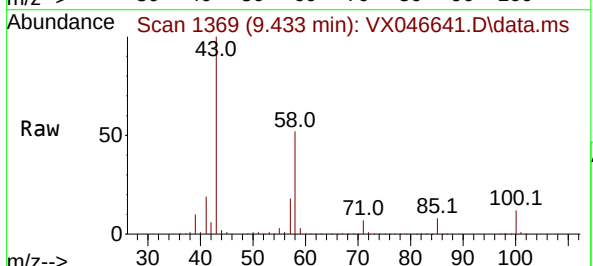
Acq: 11 Jun 2025 16:47

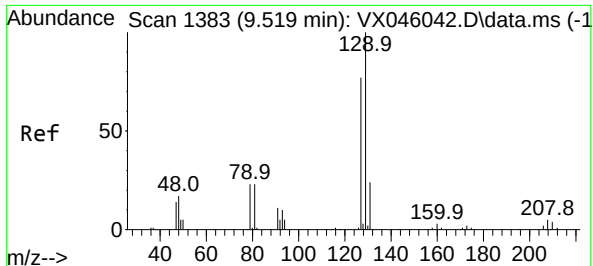
Tgt Ion: 43 Resp: 366111

Ion Ratio Lower Upper

43 100

58 51.7 24.9 74.6





#60

Dibromochloromethane

Concen: 63.050 ug/l

RT: 9.525 min Scan# 1384

Delta R.T. -0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion:129 Resp: 76280

Ion Ratio Lower Upper

129 100

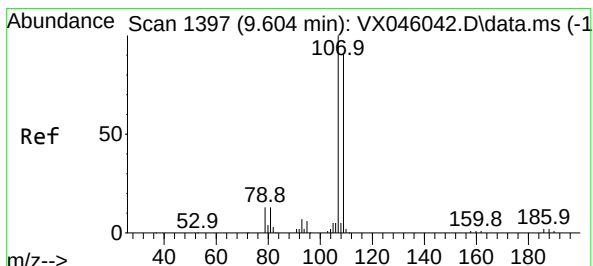
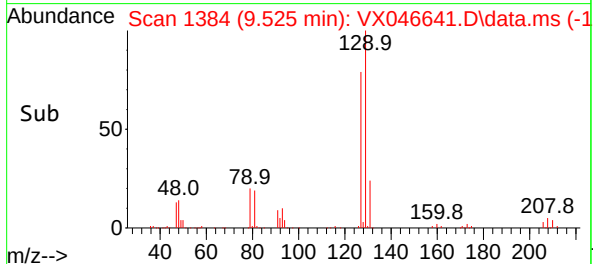
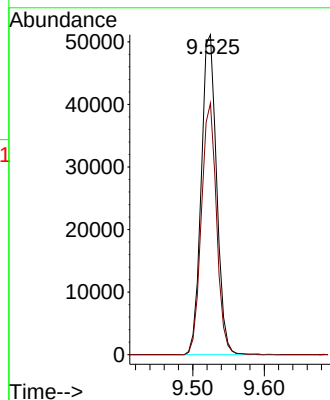
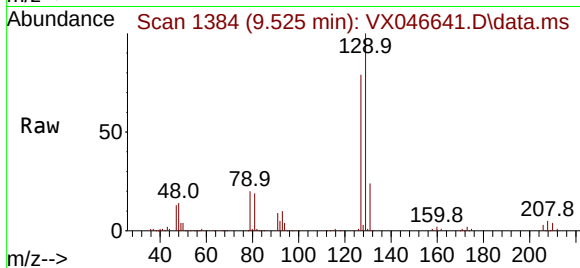
127 77.5 39.3 117.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#61

1,2-Dibromoethane

Concen: 60.277 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.000 min

Lab File: VX046641.D

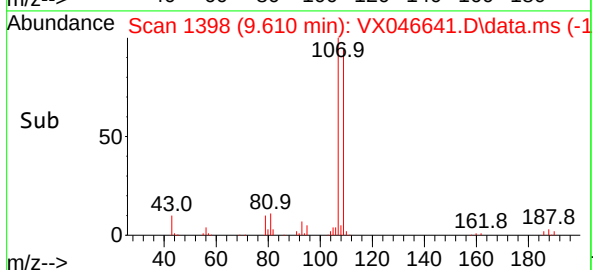
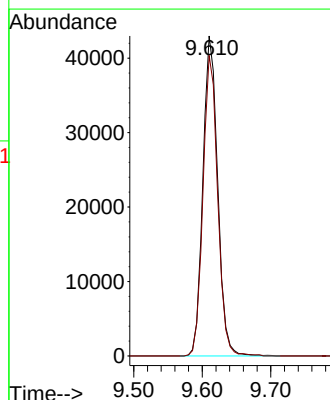
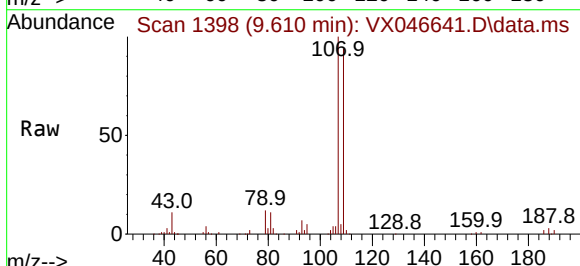
Acq: 11 Jun 2025 16:47

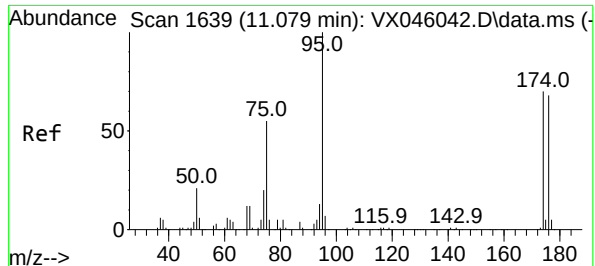
Tgt Ion:107 Resp: 64605

Ion Ratio Lower Upper

107 100

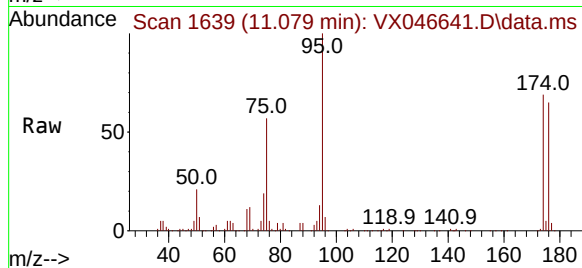
109 93.2 73.3 109.9





#62
4-Bromofluorobenzene
Concen: 50.894 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

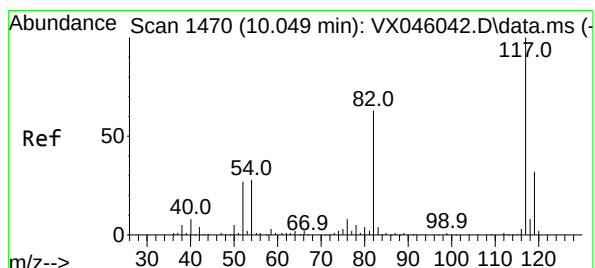
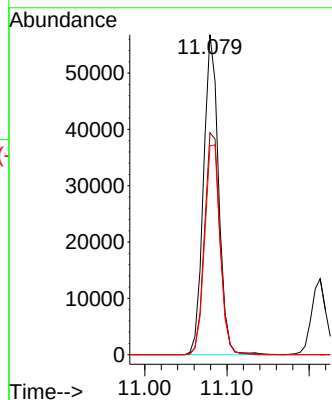
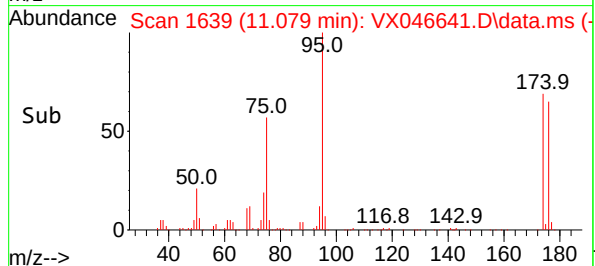
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS



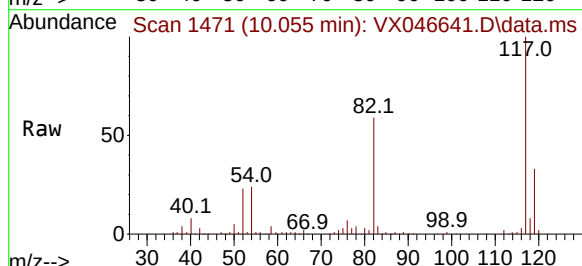
Tgt Ion: 95 Resp: 7199
Ion Ratio Lower Upper
95 100
174 71.6 0.0 135.8
176 67.7 0.0 131.4

Manual Integrations
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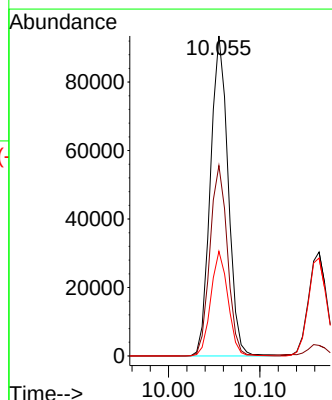
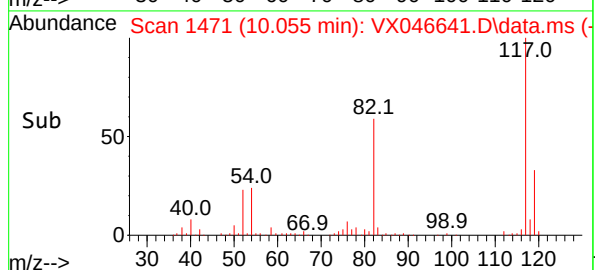
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

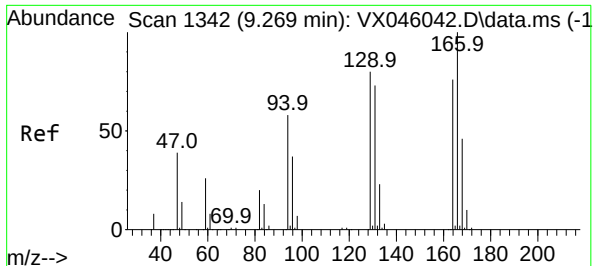


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47



Tgt Ion:117 Resp: 125449
Ion Ratio Lower Upper
117 100
82 59.5 50.6 76.0
119 32.7 25.8 38.6





#64

Tetrachloroethene

Concen: 54.786 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion:164 Resp: 4595

Ion Ratio Lower Upper

164 100

166 124.7 105.0 157.6

129 104.8 83.5 125.3

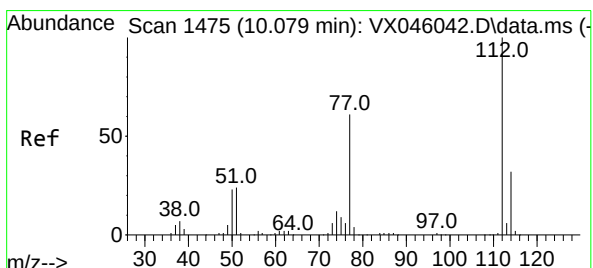
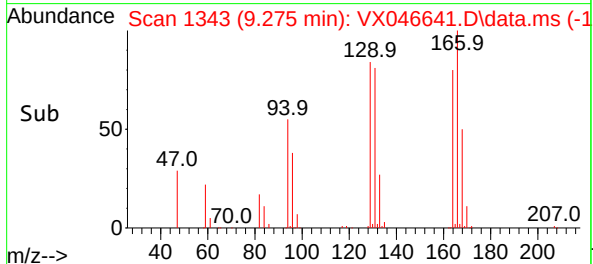
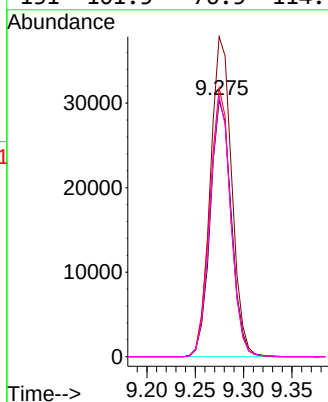
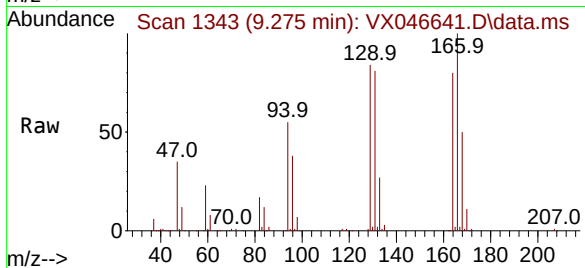
131 101.5 76.5 114.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#65

Chlorobenzene

Concen: 59.198 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VX046641.D

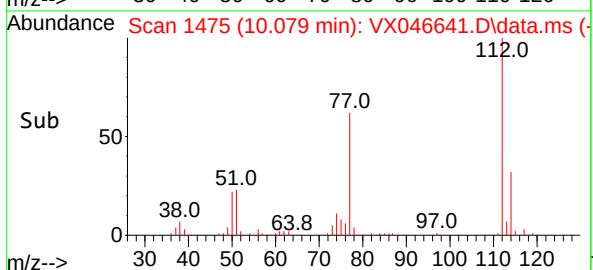
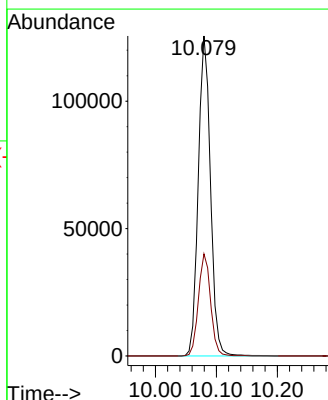
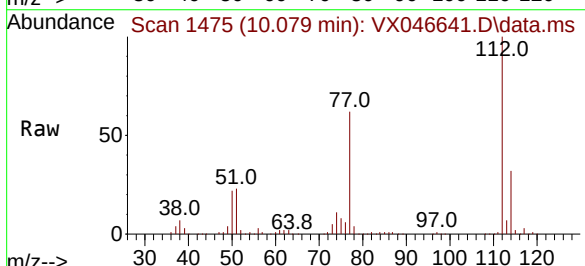
Acq: 11 Jun 2025 16:47

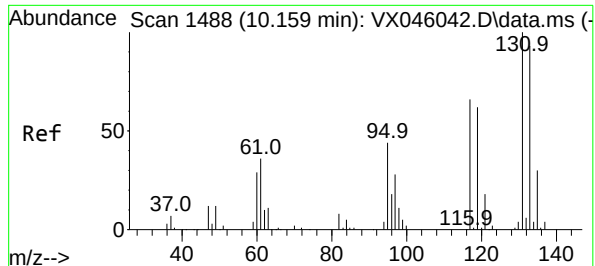
Tgt Ion:112 Resp: 174659

Ion Ratio Lower Upper

112 100

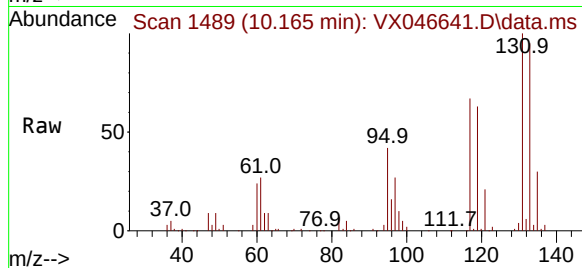
114 31.9 25.4 38.2





#66
1,1,1,2-Tetrachloroethane
Concen: 64.065 ug/l
RT: 10.165 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

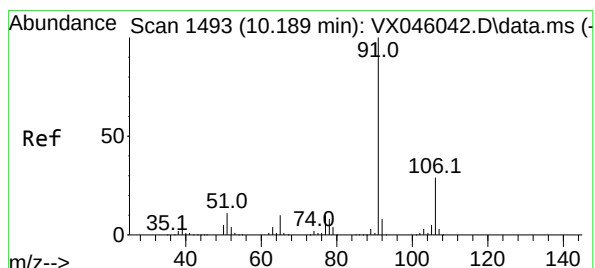
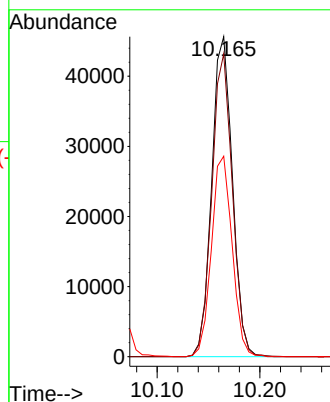
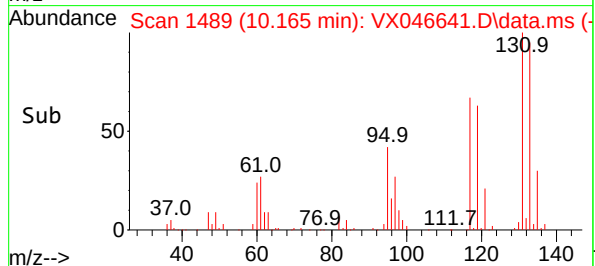
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS



Tgt Ion:131 Resp: 6387
Ion Ratio Lower Upper
131 100
133 94.1 47.3 141.9
119 62.8 31.6 95.0

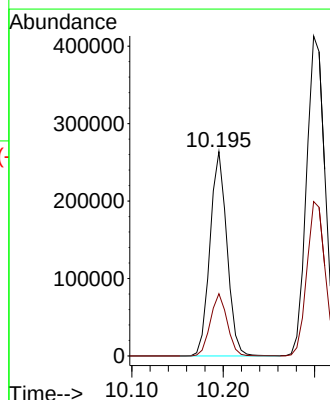
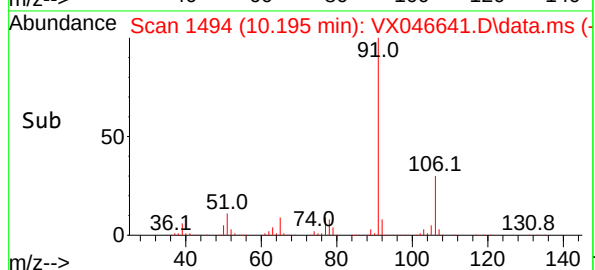
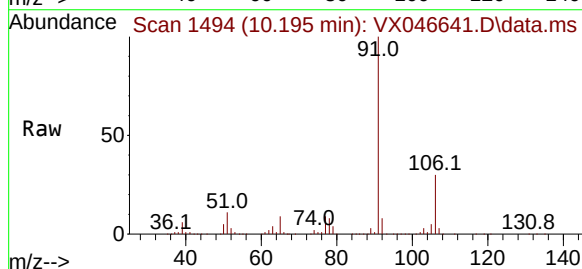
Manual Integrations
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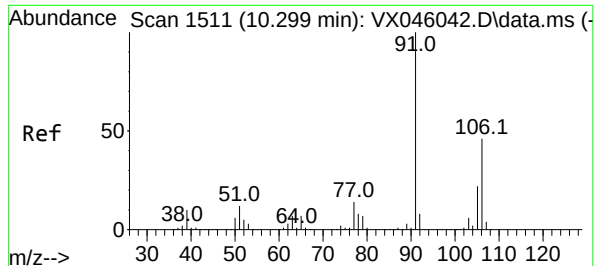
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#67
Ethyl Benzene
Concen: 65.838 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

Tgt Ion: 91 Resp: 339109
Ion Ratio Lower Upper
91 100
106 30.5 23.4 35.2





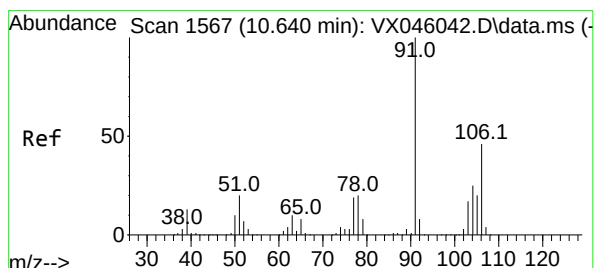
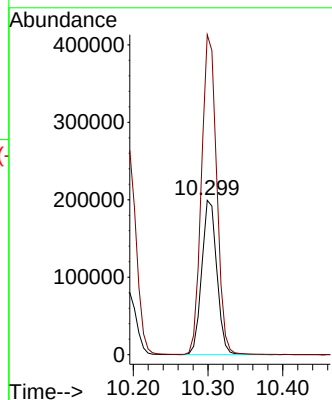
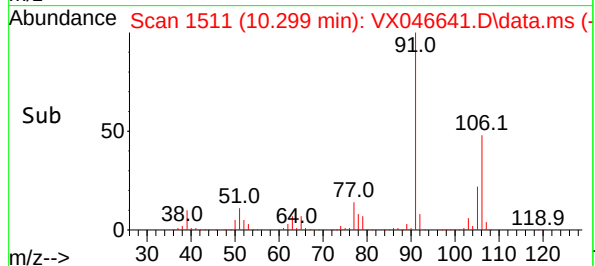
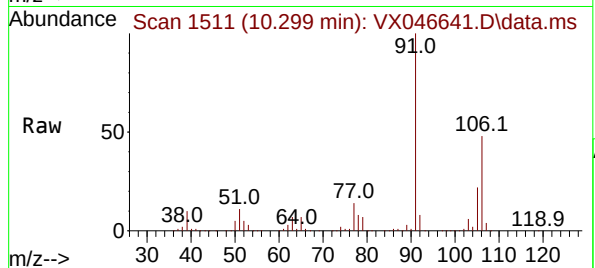
#68
m/p-Xylenes
Concen: 149.265 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS

Tgt Ion:106 Resp: 278890
Ion Ratio Lower Upper
106 100
91 209.0 171.2 256.8

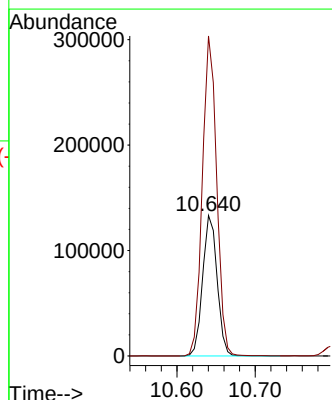
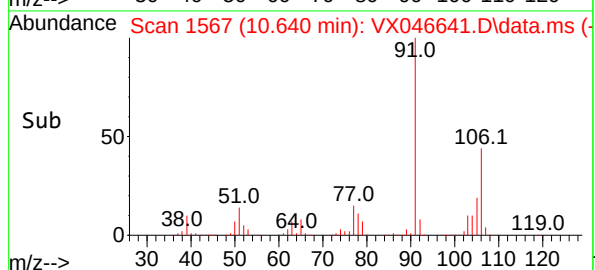
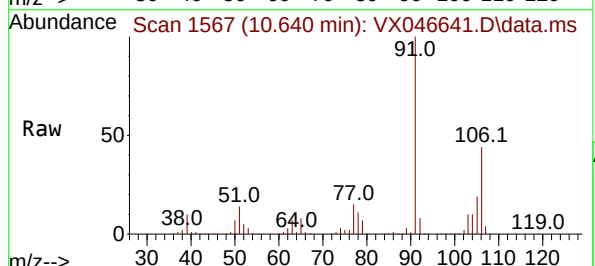
Manual Integrations
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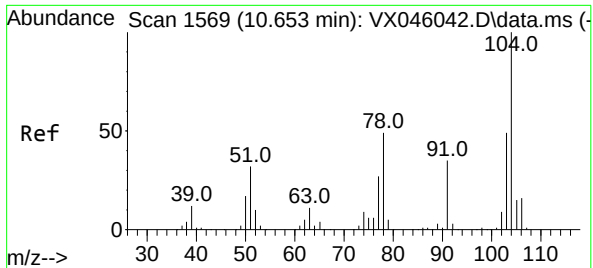
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#69
o-Xylene
Concen: 94.565 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

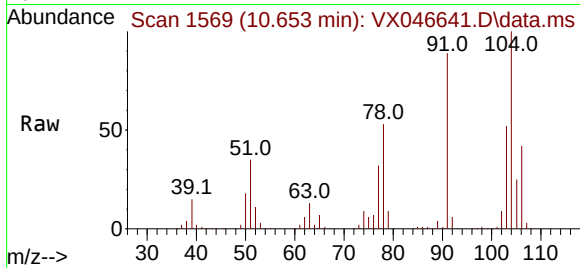
Tgt Ion:106 Resp: 170900
Ion Ratio Lower Upper
106 100
91 225.5 112.7 338.1





#70
Styrene
Concen: 63.611 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.005 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

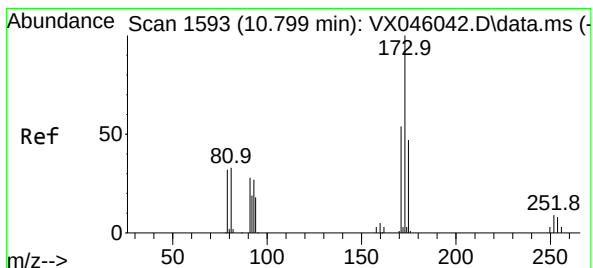
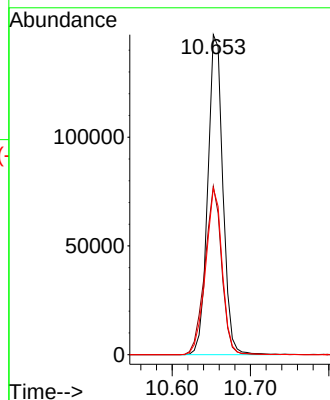
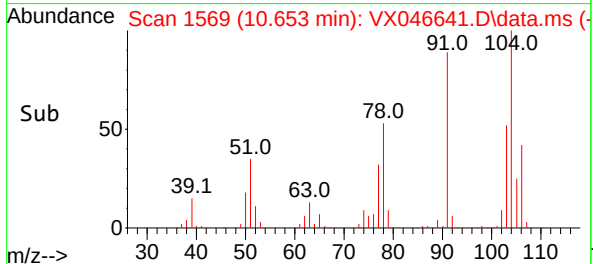
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS



Tgt Ion:104 Resp: 196780
Ion Ratio Lower Upper
104 100
78 58.4 45.7 68.5
103 57.2 43.7 65.5

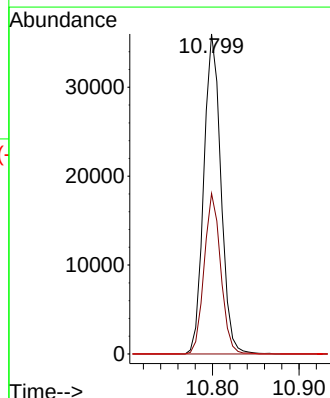
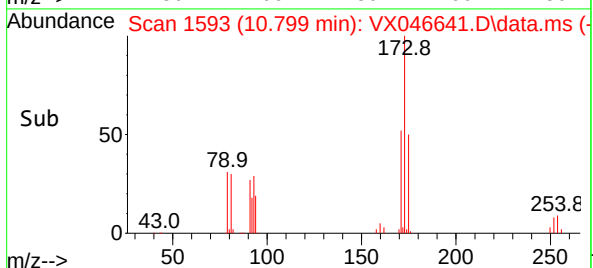
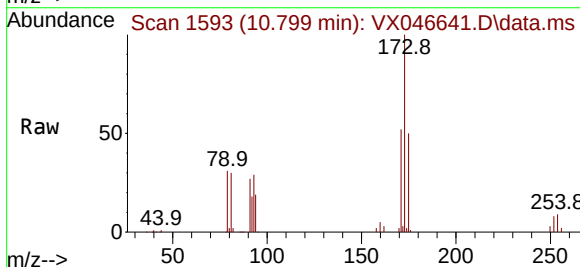
Manual Integrations
APPROVED

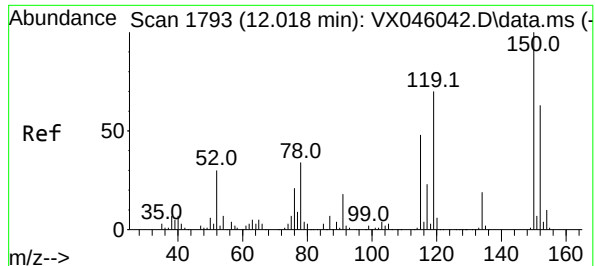
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#71
Bromoform
Concen: 64.856 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

Tgt Ion:173 Resp: 49303
Ion Ratio Lower Upper
173 100
175 48.6 23.4 70.0
254 0.0 0.0 0.0





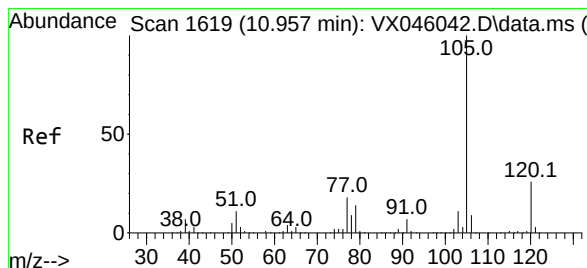
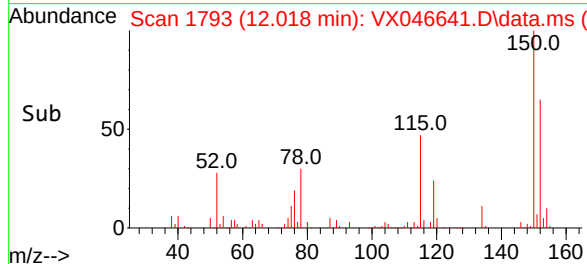
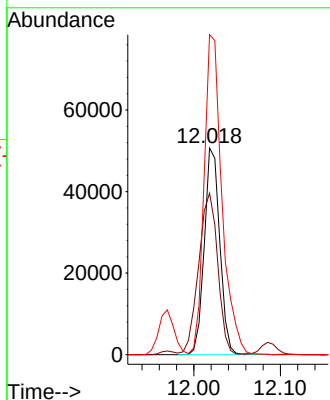
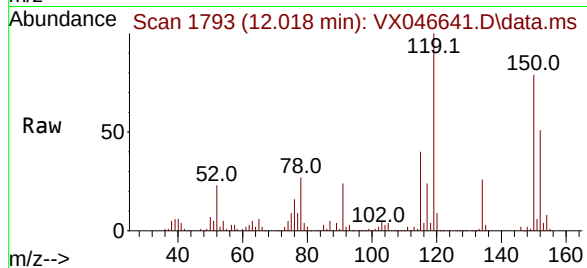
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS

Tgt Ion:152 Resp: 6300
Ion Ratio Lower Upper
152 100
115 95.7 46.9 140.7
150 178.6 0.0 351.0

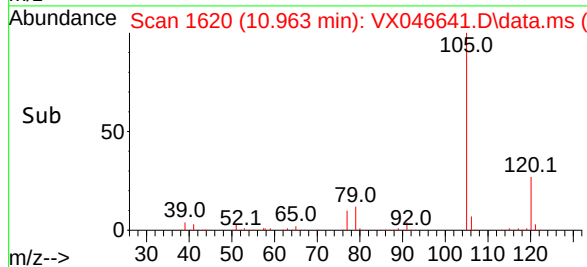
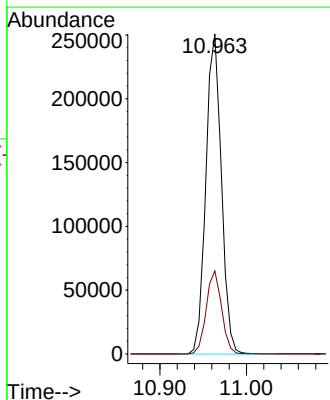
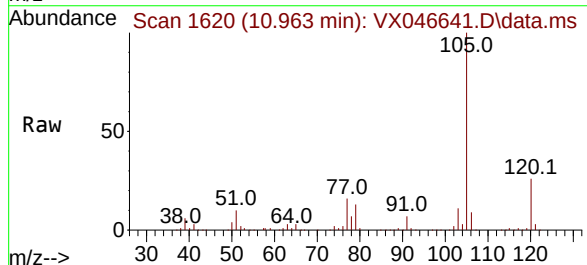
Manual Integrations
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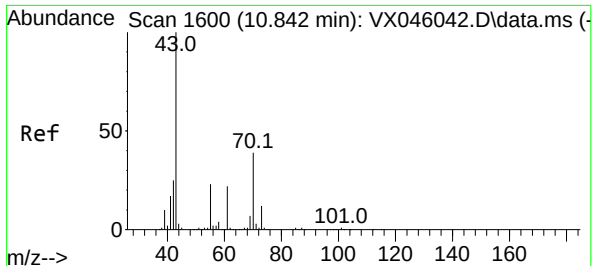
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#73
Isopropylbenzene
Concen: 62.899 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

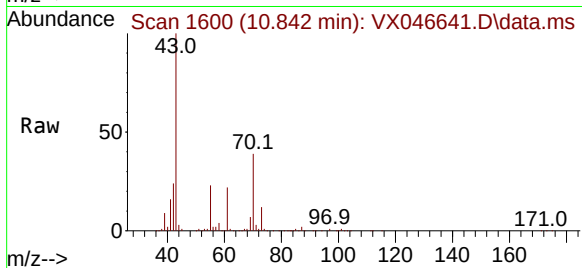
Tgt Ion:105 Resp: 311506
Ion Ratio Lower Upper
105 100
120 25.7 12.8 38.4





#74
N-ethyl acetate
Concen: 64.410 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.001 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

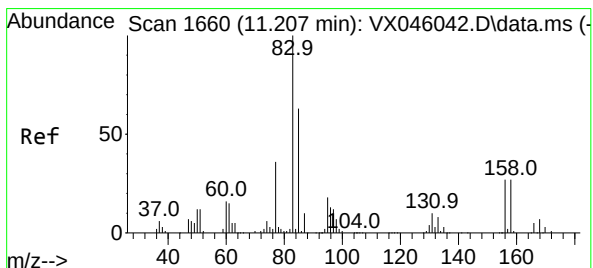
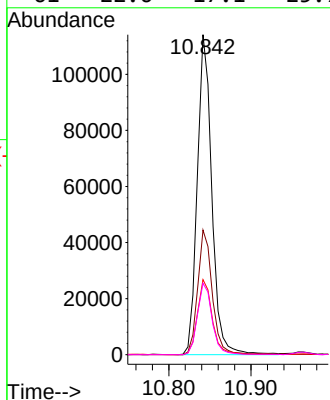
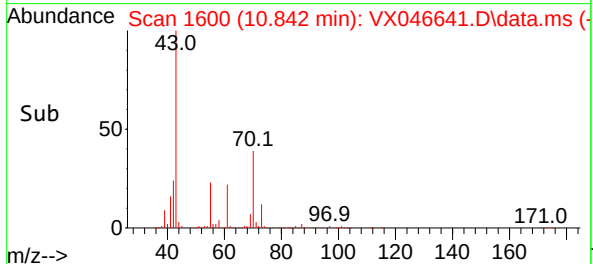
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS



Tgt Ion: 43 Resp: 140470
Ion Ratio Lower Upper
43 100
70 39.4 30.9 46.3
55 24.0 18.7 28.1
61 22.6 17.1 25.7

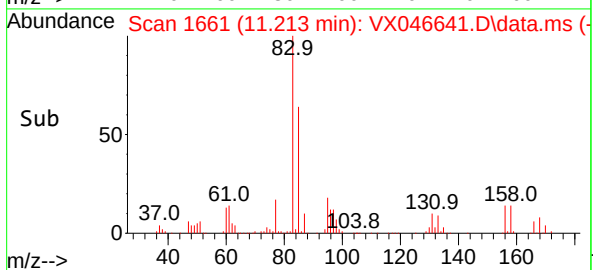
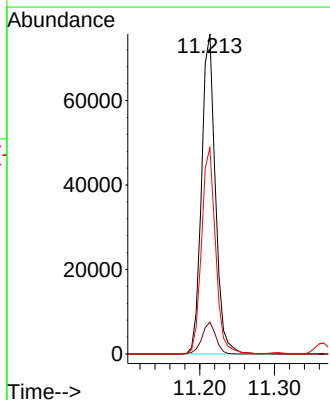
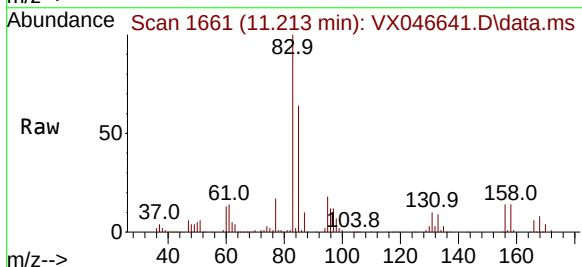
Manual Integrations
APPROVED

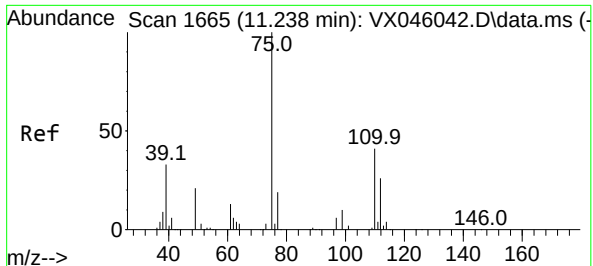
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#75
1,1,2,2-Tetrachloroethane
Concen: 61.402 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

Tgt Ion: 83 Resp: 97335
Ion Ratio Lower Upper
83 100
131 10.0 5.0 14.9
85 65.6 31.9 95.7





#76

1,2,3-Trichloropropane

Concen: 59.960 ug/l m

RT: 11.238 min Scan# 1665

Delta R.T. -0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion: 75 Resp: 8001

Ion Ratio Lower Upper

75 100

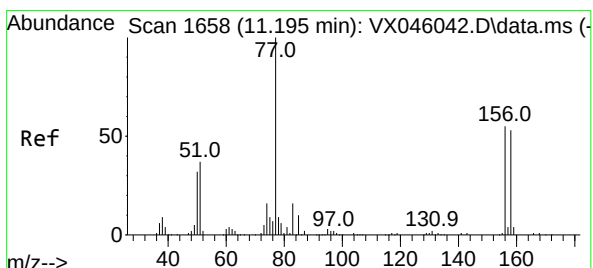
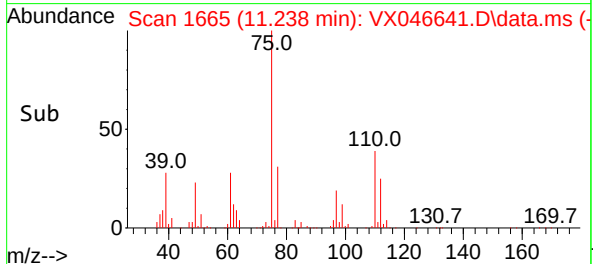
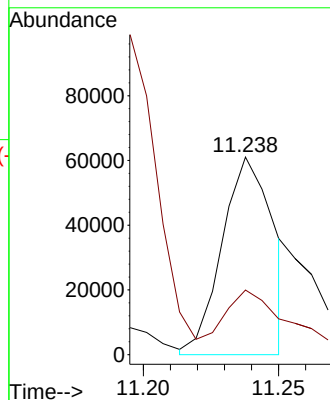
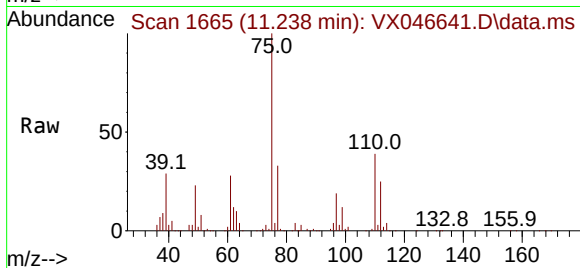
77 42.7 20.5 61.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#77

Bromobenzene

Concen: 60.893 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

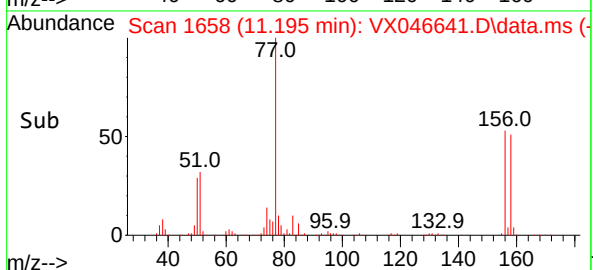
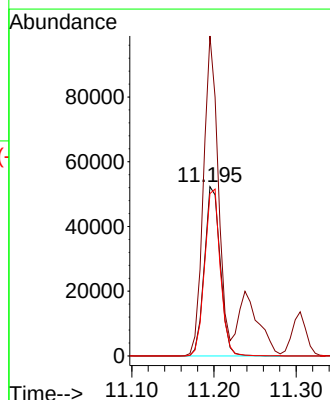
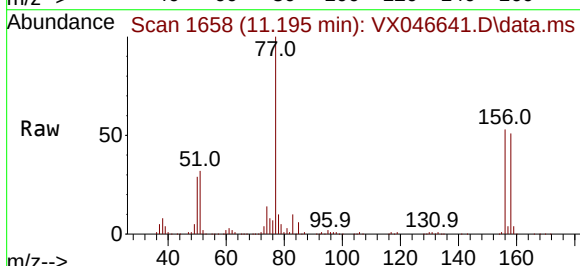
Tgt Ion:156 Resp: 69998

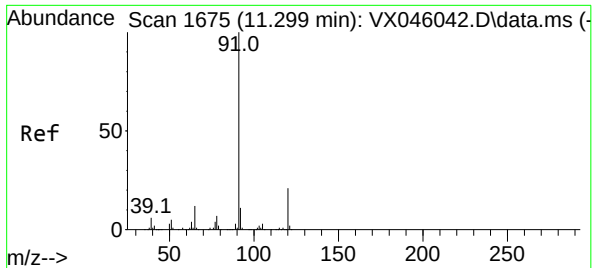
Ion Ratio Lower Upper

156 100

77 176.5 92.8 278.3

158 97.7 48.8 146.3





#78

n-propylbenzene

Concen: 63.608 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion: 91 Resp: 381289

Ion Ratio Lower Upper

91 100

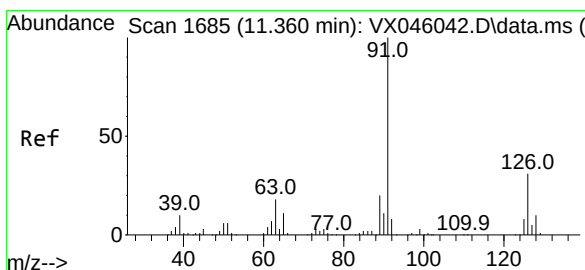
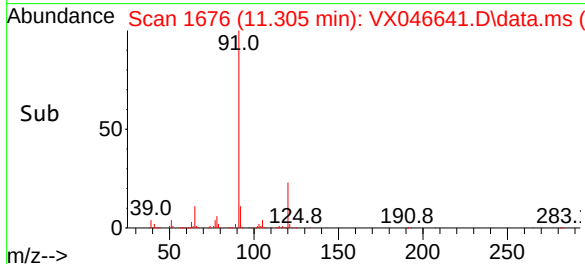
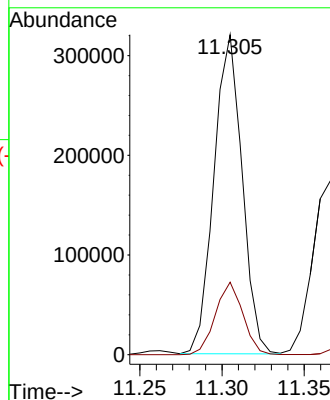
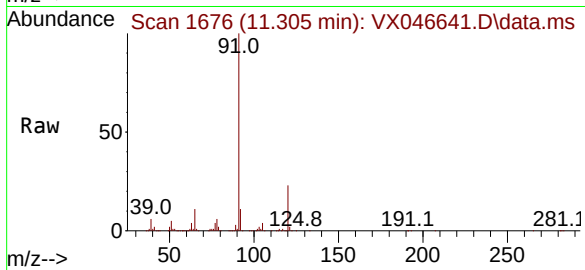
120 22.2 10.8 32.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#79

2-Chlorotoluene

Concen: 63.014 ug/l

RT: 11.366 min Scan# 1686

Delta R.T. -0.000 min

Lab File: VX046641.D

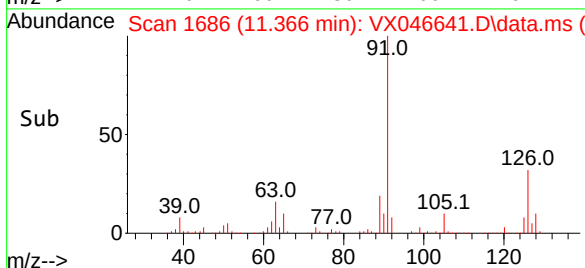
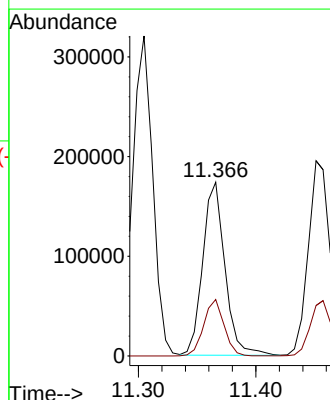
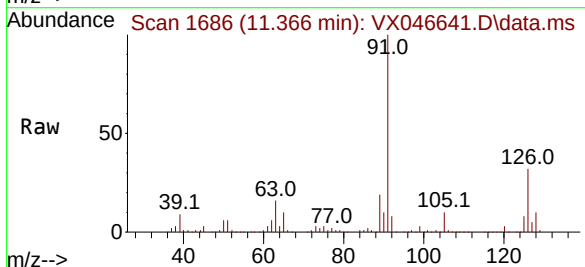
Acq: 11 Jun 2025 16:47

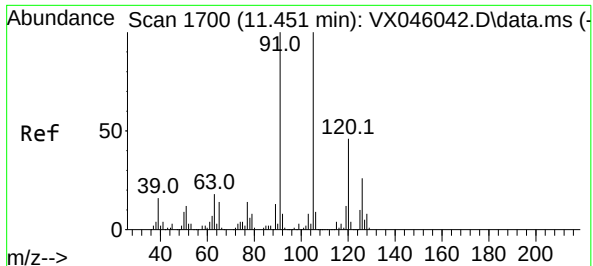
Tgt Ion: 91 Resp: 227781

Ion Ratio Lower Upper

91 100

126 29.9 15.6 46.7





#80

1,3,5-Trimethylbenzene

Concen: 72.523 ug/l

RT: 11.451 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion:105 Resp: 29929

Ion Ratio Lower Upper

105 100

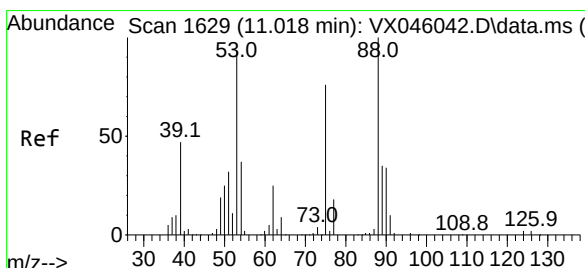
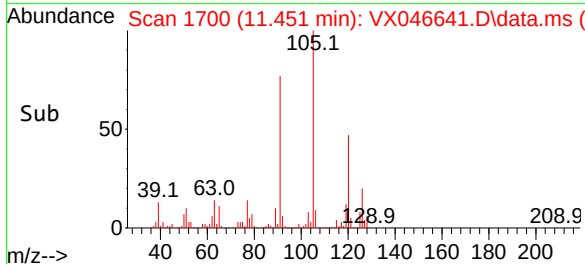
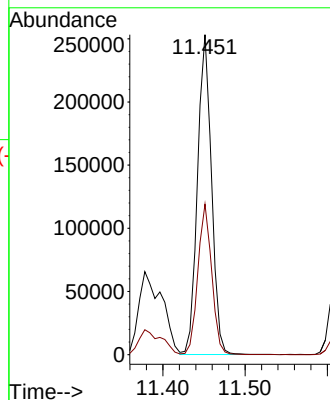
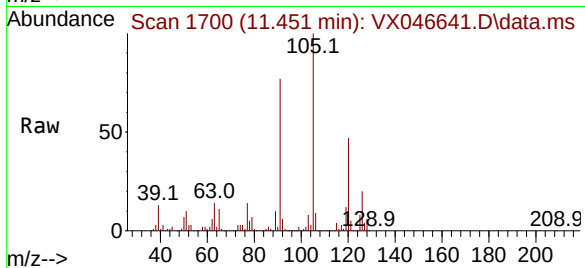
120 46.5 23.1 69.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#81

trans-1,4-Dichloro-2-butene

Concen: 65.224 ug/l

RT: 11.018 min Scan# 1629

Delta R.T. 0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

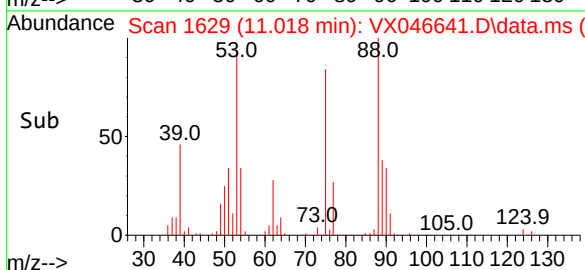
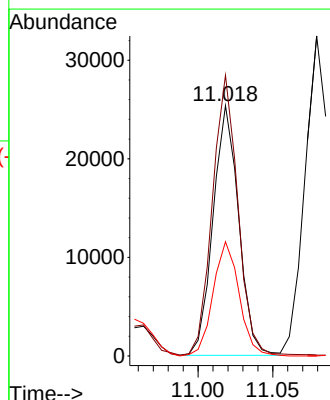
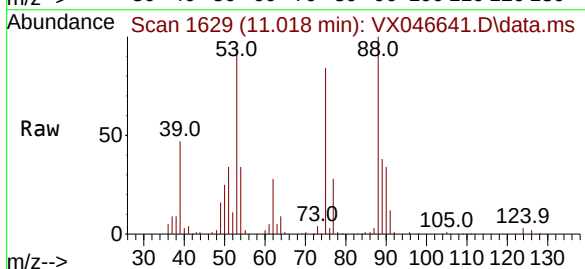
Tgt Ion: 75 Resp: 30173

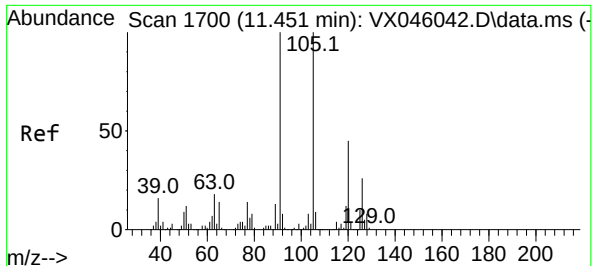
Ion Ratio Lower Upper

75 100

53 112.6 100.5 150.7

89 46.5 37.0 55.6





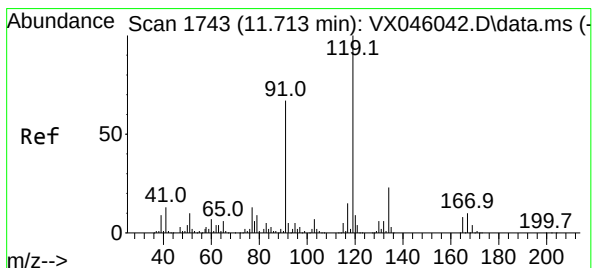
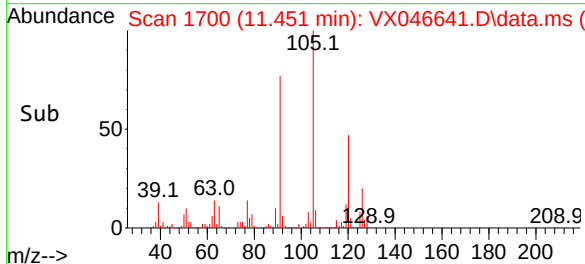
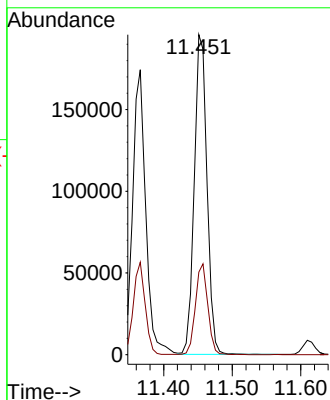
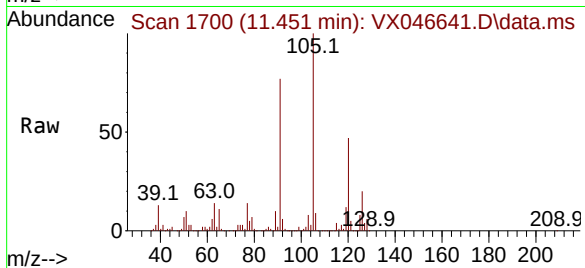
#82
4-Chlorotoluene
Concen: 58.983 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS

Tgt Ion: 91 Resp: 252710
Ion Ratio Lower Upper
91 100
126 27.8 13.3 39.8

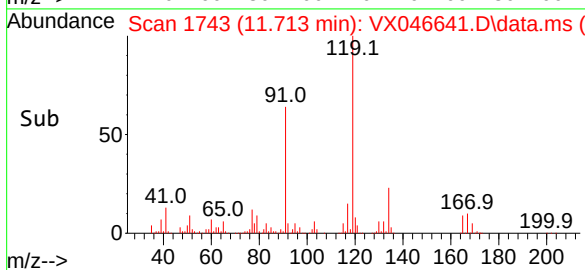
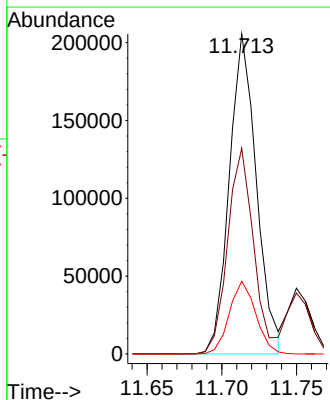
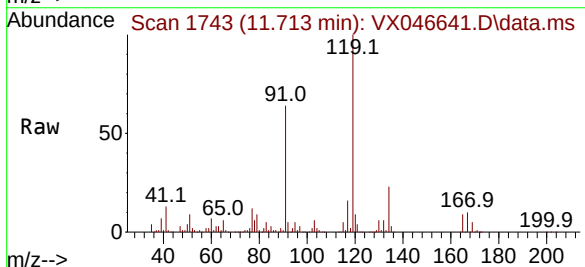
Manual Integrations
APPROVED

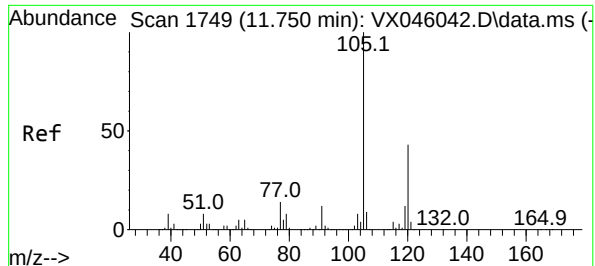
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#83
tert-Butylbenzene
Concen: 61.758 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

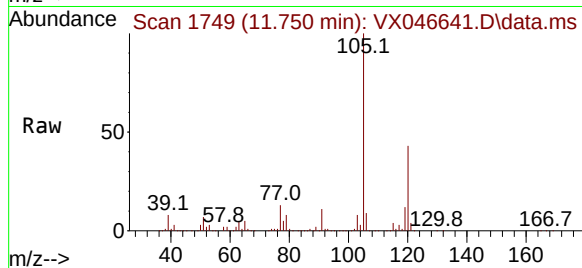
Tgt Ion: 119 Resp: 259455
Ion Ratio Lower Upper
119 100
91 60.3 32.9 98.7
134 22.2 11.4 34.1





#84
1,2,4-Trimethylbenzene
Concen: 102.538 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

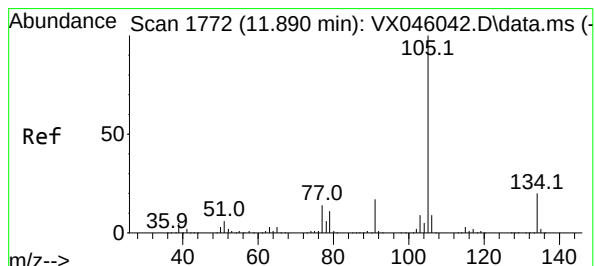
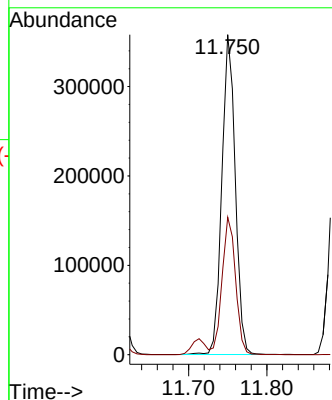
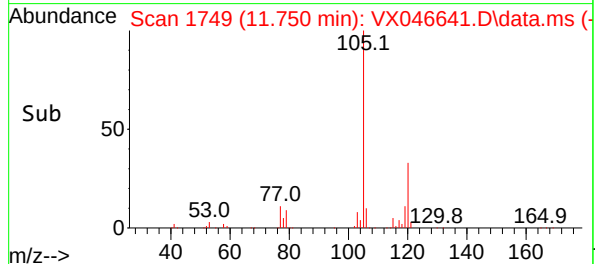
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS



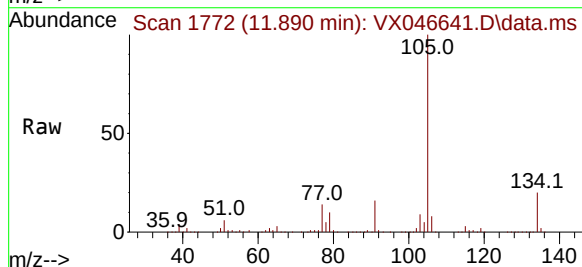
Tgt Ion:105 Resp: 42809
Ion Ratio Lower Upper
105 100
120 43.3 21.2 63.6

Manual Integrations
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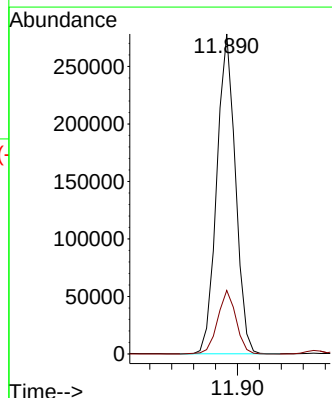
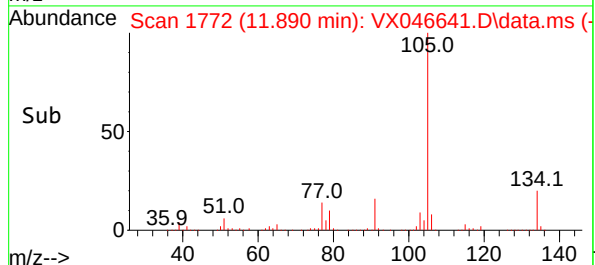
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

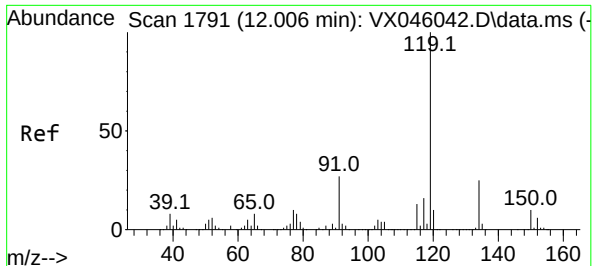


#85
sec-Butylbenzene
Concen: 60.834 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47



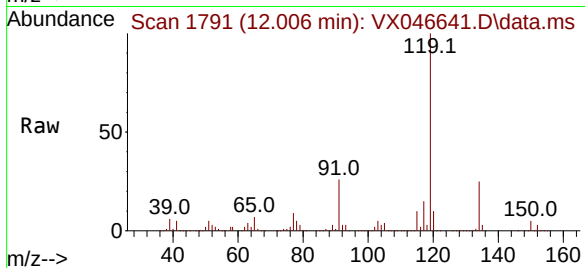
Tgt Ion:105 Resp: 328394
Ion Ratio Lower Upper
105 100
134 19.7 9.7 29.1





#86
p-Isopropyltoluene
Concen: 60.781 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

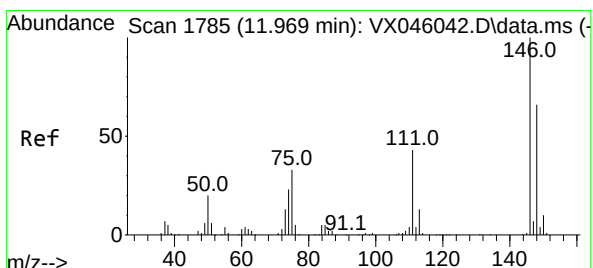
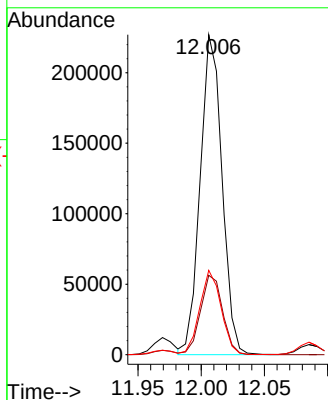
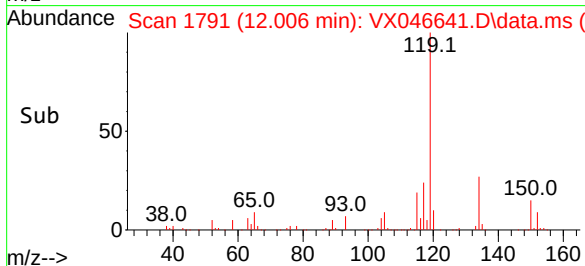
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS



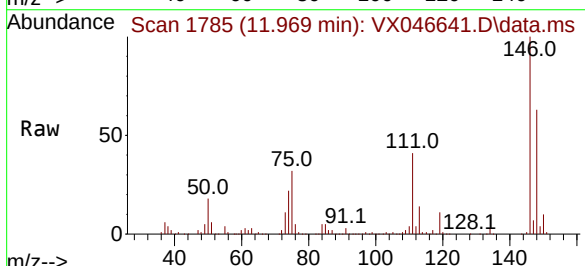
Tgt Ion:119 Resp: 27352
Ion Ratio Lower Upper
119 100
134 25.2 12.5 37.5
91 25.7 13.8 41.4

Manual Integrations
APPROVED

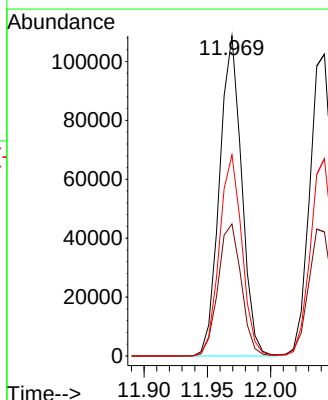
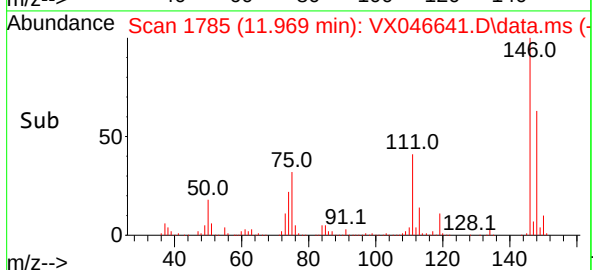
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

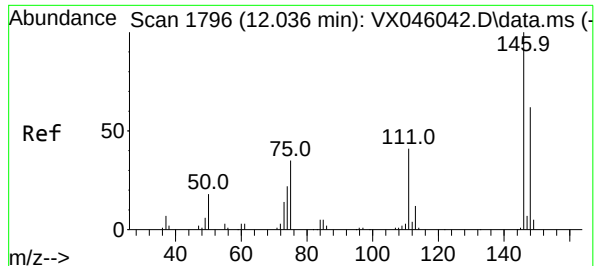


#87
1,3-Dichlorobenzene
Concen: 59.177 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47



Tgt Ion:146 Resp: 132095
Ion Ratio Lower Upper
146 100
111 43.3 22.1 66.3
148 63.9 32.1 96.5





#88

1,4-Dichlorobenzene

Concen: 57.008 ug/l

RT: 12.043 min Scan# 1796

Delta R.T. 0.001 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion:146 Resp: 13186

Ion Ratio Lower Upper

146 100

111 42.8 21.3 63.9

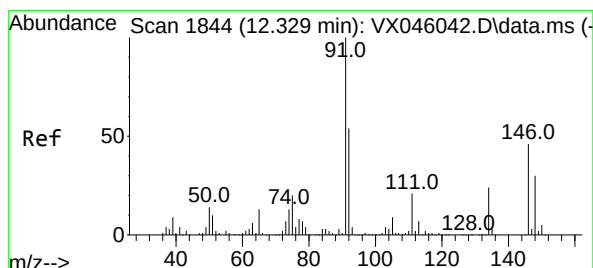
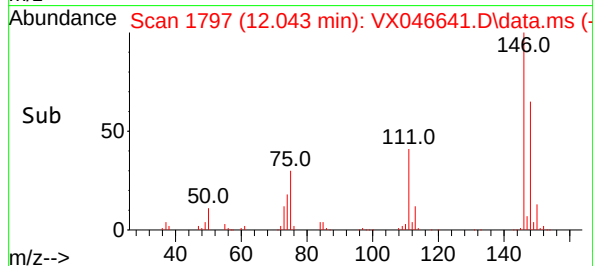
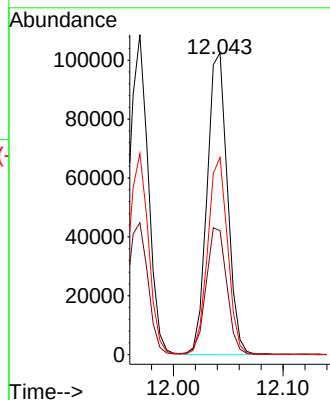
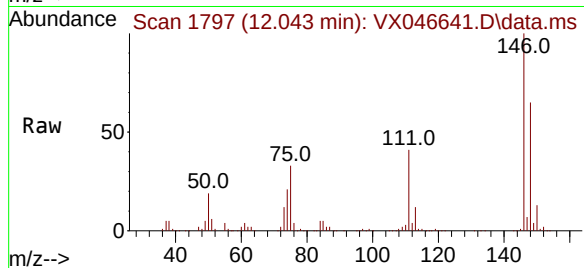
148 64.3 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#89

n-Butylbenzene

Concen: 60.941 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

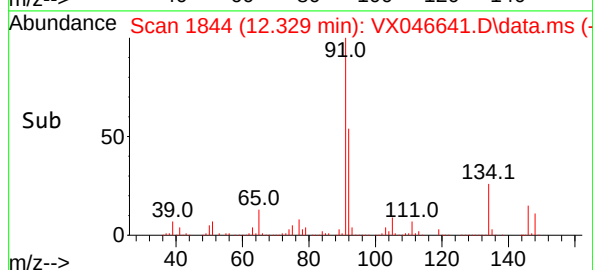
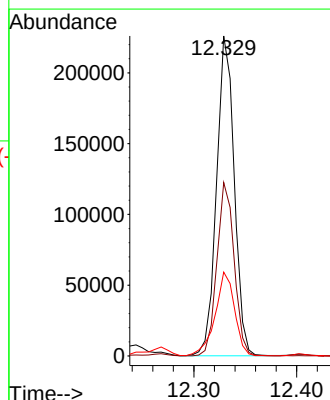
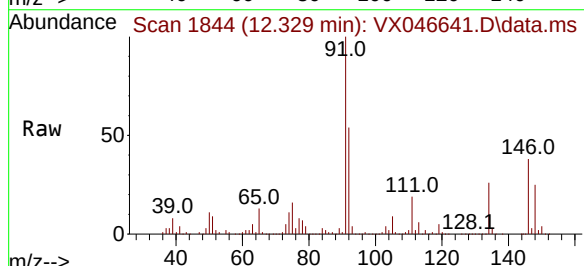
Tgt Ion: 91 Resp: 269319

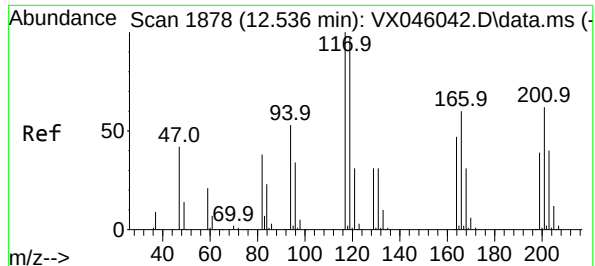
Ion Ratio Lower Upper

91 100

92 52.9 26.9 80.7

134 28.9 11.8 35.3





#90

Hexachloroethane

Concen: 63.677 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MS

Tgt Ion:117 Resp: 5093

Ion Ratio Lower Upper

117 100

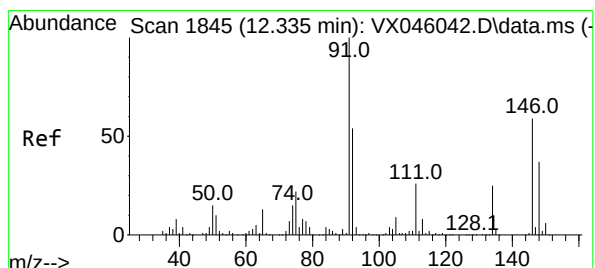
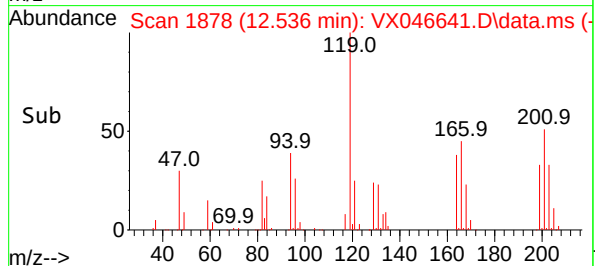
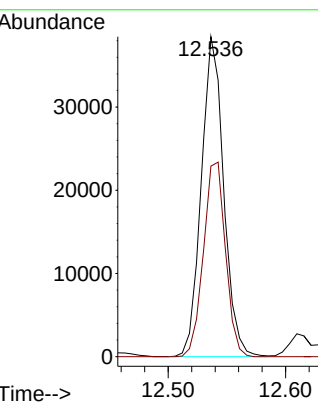
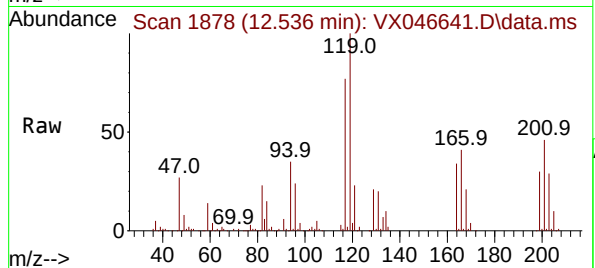
201 59.9 31.6 94.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#91

1,2-Dichlorobenzene

Concen: 59.863 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

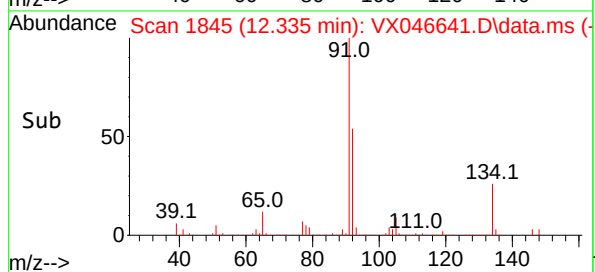
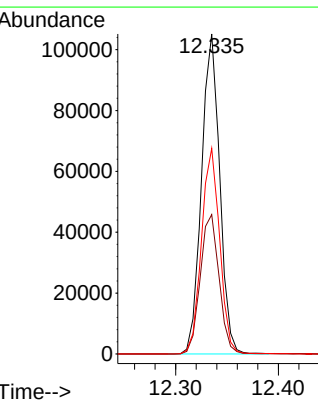
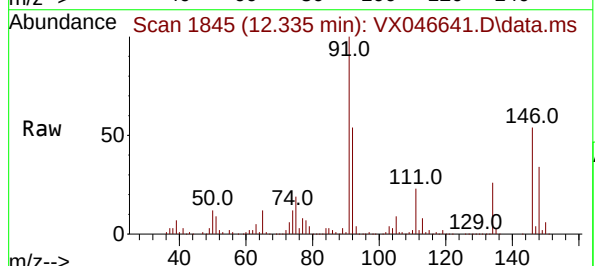
Tgt Ion:146 Resp: 128987

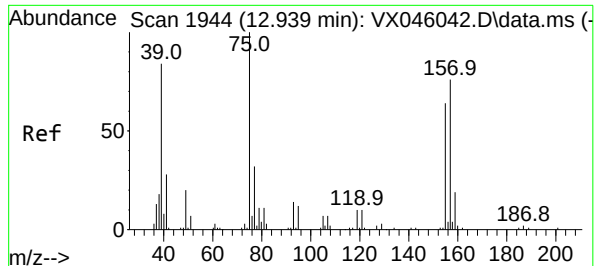
Ion Ratio Lower Upper

146 100

111 45.2 22.4 67.3

148 64.4 31.6 94.8





#92

1,2-Dibromo-3-Chloropropane

Concen: 62.485 ug/l

RT: 12.939 min Scan# 1944

Delta R.T. -0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

Instrument :

MSVOA_X

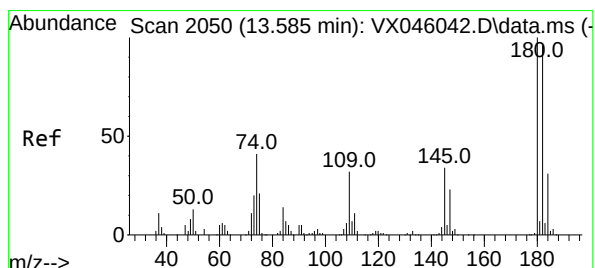
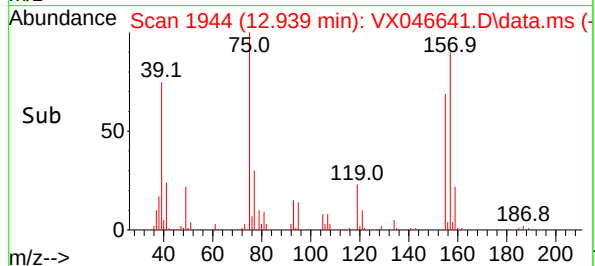
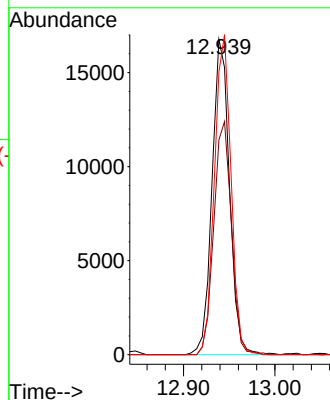
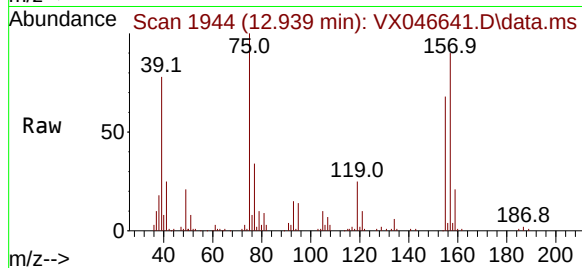
ClientSampleId :

GW-MW01-060425MS

Tgt Ion:	75	Resp:	2218
Ion Ratio	Lower	Upper	
75	100		
155	74.8	34.9	104.8
157	96.7	43.8	131.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#93

1,2,4-Trichlorobenzene

Concen: 59.349 ug/l

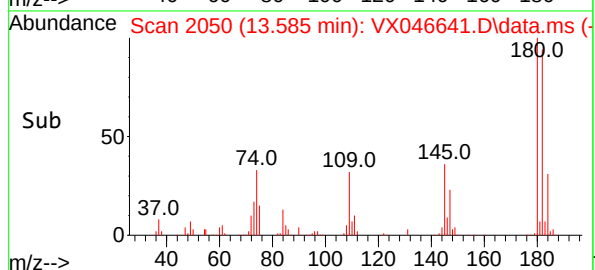
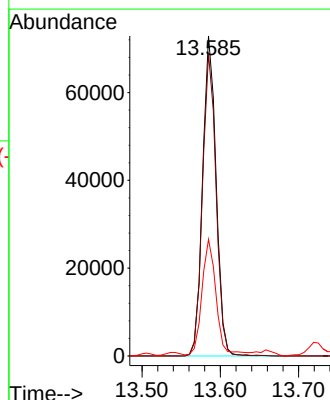
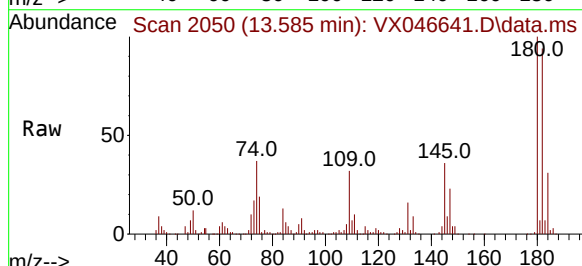
RT: 13.585 min Scan# 2050

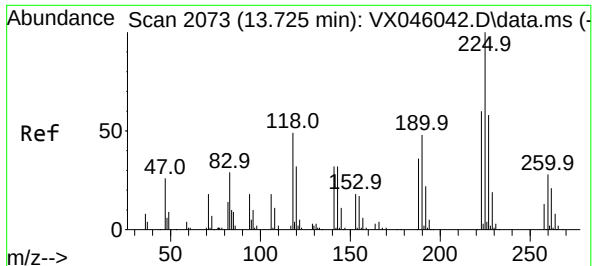
Delta R.T. -0.000 min

Lab File: VX046641.D

Acq: 11 Jun 2025 16:47

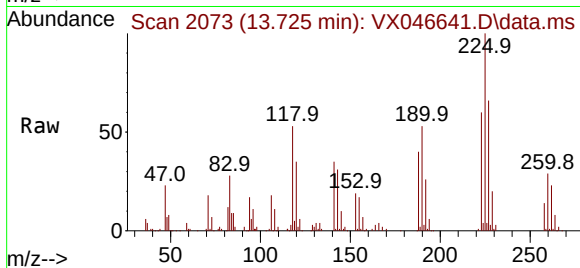
Tgt Ion:	180	Resp:	87233
Ion Ratio	Lower	Upper	
180	100		
182	94.9	47.9	143.8
145	38.1	17.1	51.2





#94
Hexachlorobutadiene
Concen: 51.236 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

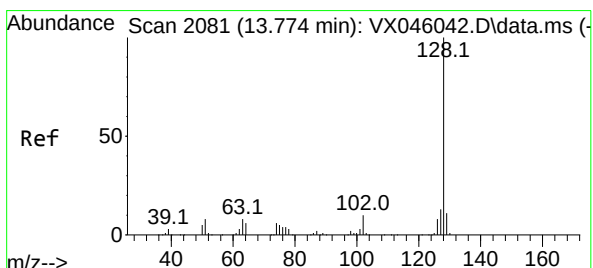
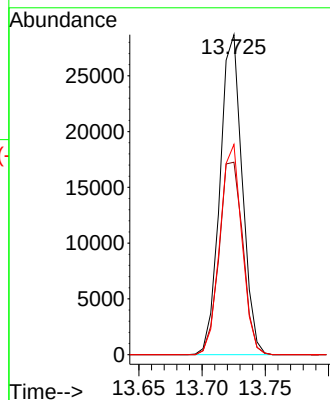
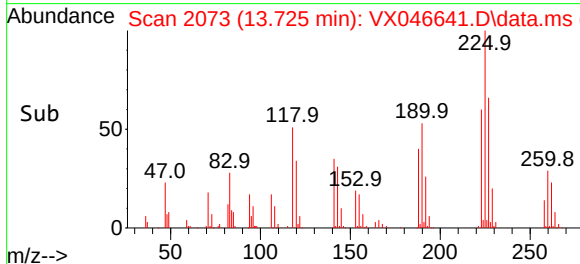
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS



Tgt Ion:225 Resp: 34998
Ion Ratio Lower Upper
225 100
223 64.2 30.8 92.4
227 65.1 30.9 92.7

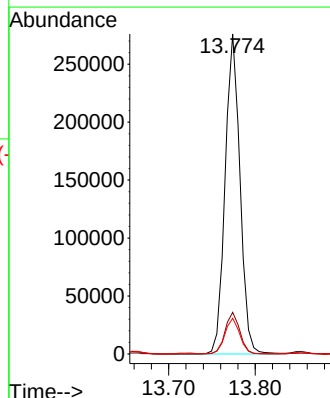
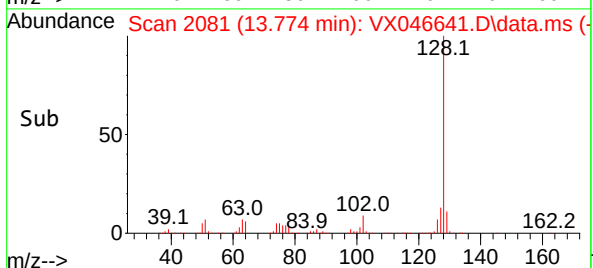
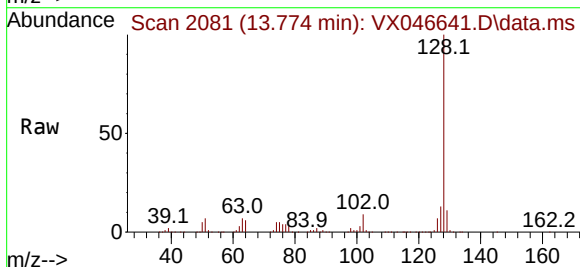
Manual Integrations
APPROVED

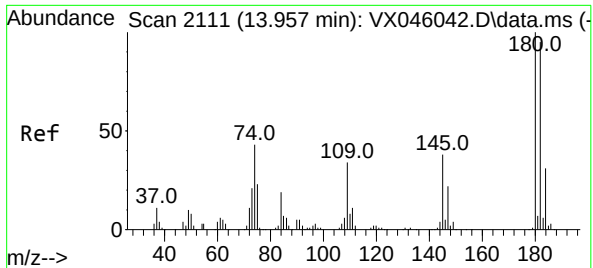
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#95
Naphthalene
Concen: 70.554 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

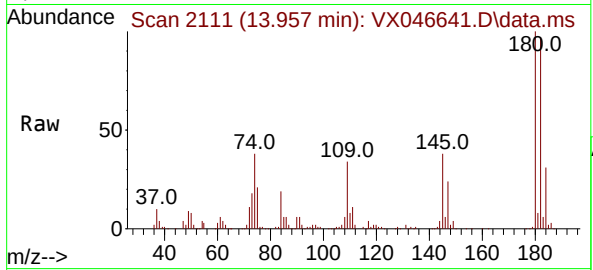
Tgt Ion:128 Resp: 328865
Ion Ratio Lower Upper
128 100
127 13.0 10.4 15.6
129 11.1 8.6 13.0





#96
1,2,3-Trichlorobenzene
Concen: 58.683 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046641.D
Acq: 11 Jun 2025 16:47

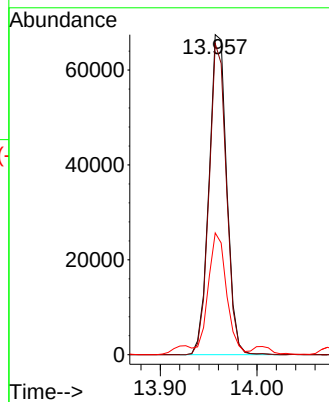
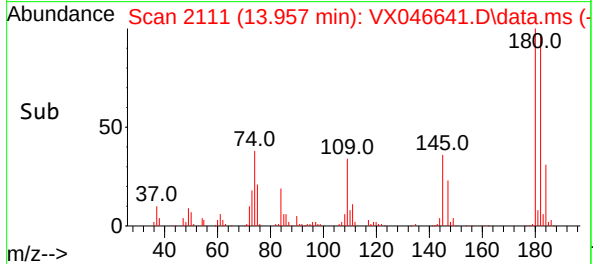
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MS



Tgt Ion:180 Resp: 86490
Ion Ratio Lower Upper
180 100
182 94.8 47.8 143.3
145 42.3 18.1 54.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



Report of Analysis

Client:	CDM Smith	Date Collected:	06/04/25
Project:	Con Ed UTEN Mount Vernon, NY	Date Received:	06/04/25
Client Sample ID:	GW-MW01-060425MSD	SDG No.:	Q2230
Lab Sample ID:	Q2230-04MSD	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046642.D	1		06/11/25 17:09	VX061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
71-43-2	Benzene	50.7		0.15	1.00	ug/L
108-88-3	Toluene	54.6		0.14	1.00	ug/L
100-41-4	Ethyl Benzene	58.5		0.13	1.00	ug/L
1330-20-7	Total Xylenes	236		0.36	3.00	ug/L
98-82-8	Isopropylbenzene	53.5		0.12	1.00	ug/L
103-65-1	n-propylbenzene	55.2		0.13	1.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	66.8		0.15	1.00	ug/L
98-06-6	tert-Butylbenzene	52.1		0.14	1.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	110		0.14	1.00	ug/L
135-98-8	sec-Butylbenzene	52.0		0.13	1.00	ug/L
99-87-6	p-Isopropyltoluene	51.8		0.13	1.00	ug/L
104-51-8	n-Butylbenzene	53.5		0.15	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.9		74 - 125	92%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	50.2		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		77 - 121	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	63400	5.568			
540-36-3	1,4-Difluorobenzene	111000	6.775			
3114-55-4	Chlorobenzene-d5	101000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	50900	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\VX061125\
 Data File : VX046642.D
 Acq On : 11 Jun 2025 17:09
 Operator : JC/MD
 Sample : Q2230-04MSD
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-MW01-060425MSD

Quant Time: Jun 12 02:33:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Mahesh Dadoda 06/12/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.568	168	63422	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	110741	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	101042	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	50864	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	51798	45.906	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	91.820%		
35) Dibromofluoromethane	5.403	113	41039	50.393	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.780%		
50) Toluene-d8	8.653	98	134862	50.229	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.460%		
62) 4-Bromofluorobenzene	11.079	95	56763	51.098	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	102.200%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.185	85	35479	40.295	ug/l	100
3) Chloromethane	1.306	50	33028	41.211	ug/l	99
4) Vinyl Chloride	1.386	62	29951	37.489	ug/l	99
5) Bromomethane	1.617	94	16838	34.717	ug/l	94
6) Chloroethane	1.703	64	22193m	42.814	ug/l	
7) Trichlorofluoromethane	1.904	101	56882	43.032	ug/l	98
8) Diethyl Ether	2.148	74	20079	42.992	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.349	101	37954	45.574	ug/l	95
10) Methyl Iodide	2.471	142	38349	42.479	ug/l	97
11) Tert butyl alcohol	2.971	59	32292	257.915	ug/l	98
12) 1,1-Dichloroethene	2.337	96	36439	48.394	ug/l	92
13) Acrolein	2.251	56	61596	387.953	ug/l	99
14) Allyl chloride	2.684	41	72164	48.799	ug/l	93
15) Acrylonitrile	3.081	53	125627	265.377	ug/l	98
16) Acetone	2.392	43	144733	325.237	ug/l	97
17) Carbon Disulfide	2.532	76	70590	44.176	ug/l	98
18) Methyl Acetate	2.721	43	75002	55.805	ug/l	98
19) Methyl tert-butyl Ether	3.129	73	140191	53.209	ug/l	99
20) Methylene Chloride	2.806	84	42432	46.875	ug/l	89
21) trans-1,2-Dichloroethene	3.111	96	37158	46.631	ug/l	97
22) Diisopropyl ether	3.782	45	152331	52.249	ug/l #	82
23) Vinyl Acetate	3.739	43	594925	264.301	ug/l	99
24) 1,1-Dichloroethane	3.629	63	80406	49.484	ug/l	99
25) 2-Butanone	4.574	43	176757	281.404	ug/l	99
26) 2,2-Dichloropropane	4.495	77	62154	51.526	ug/l	97
27) cis-1,2-Dichloroethene	4.507	96	49712	50.677	ug/l	94
28) Bromochloromethane	4.916	49	38101	49.162	ug/l	98
29) Tetrahydrofuran	5.019	42	104933	264.527	ug/l	99
30) Chloroform	5.111	83	94071	55.253	ug/l	96
31) Cyclohexane	5.483	56	63100	48.103	ug/l	96
32) 1,1,1-Trichloroethane	5.403	97	72442	49.741	ug/l	97
36) 1,1-Dichloropropene	5.708	75	52271	44.934	ug/l	97
37) Ethyl Acetate	4.733	43	63847	56.235	ug/l	98
38) Carbon Tetrachloride	5.696	117	62017	47.597	ug/l	97
39) Methylcyclohexane	7.391	83	63899	46.537	ug/l	96
40) Benzene	6.050	78	166123	50.727	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
 Data File : VX046642.D
 Acq On : 11 Jun 2025 17:09
 Operator : JC/MD
 Sample : Q2230-04MSD
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GW-MW01-060425MSD

Quant Time: Jun 12 02:33:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 06/12/2025
 Supervised By :Mahesh Dadoda 06/12/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.940	41	36736	52.104	ug/l	95
42) 1,2-Dichloroethane	6.098	62	66931	49.126	ug/l	99
43) Isopropyl Acetate	6.354	43	104960	53.028	ug/l	99
44) Trichloroethene	7.135	130	41102	49.396	ug/l	99
45) 1,2-Dichloropropane	7.433	63	44776	52.971	ug/l	97
46) Dibromomethane	7.592	93	32244	50.705	ug/l	96
47) Bromodichloromethane	7.830	83	68604	52.468	ug/l	96
48) Methyl methacrylate	7.702	41	54608	53.622	ug/l	94
49) 1,4-Dioxane	7.665	88	14358	1054.293	ug/l	97
51) 4-Methyl-2-Pentanone	8.573	43	348549	277.114	ug/l	98
52) Toluene	8.720	92	109908	54.628	ug/l	99
53) t-1,3-Dichloropropene	8.982	75	63618	54.266	ug/l	97
54) cis-1,3-Dichloropropene	8.372	75	67669	51.914	ug/l	90
55) 1,1,2-Trichloroethane	9.153	97	44010	54.489	ug/l	97
56) Ethyl methacrylate	9.122	69	71261	57.334	ug/l	93
57) 1,3-Dichloropropane	9.311	76	75095	52.612	ug/l	98
59) 2-Hexanone	9.433	43	253244	280.738	ug/l	97
60) Dibromochloromethane	9.525	129	51876	54.603	ug/l	99
61) 1,2-Dibromoethane	9.610	107	44258	52.585	ug/l	98
64) Tetrachloroethene	9.275	164	32388	47.935	ug/l	92
65) Chlorobenzene	10.079	112	118916	50.041	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.165	131	42642	53.102	ug/l	99
67) Ethyl Benzene	10.195	91	242631	58.485	ug/l	99
68) m/p-Xylenes	10.299	106	206477	137.203	ug/l	97
69) o-Xylene	10.640	106	139010	95.500	ug/l	98
70) Styrene	10.652	104	136700	54.862	ug/l	95
71) Bromoform	10.799	173	32870	53.683	ug/l #	96
73) Isopropylbenzene	10.963	105	214031	53.529	ug/l	99
74) N-amyl acetate	10.841	43	95676	54.336	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.213	83	67802	52.977	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	55902m	51.888	ug/l	
77) Bromobenzene	11.195	156	48709	52.484	ug/l	94
78) n-propylbenzene	11.305	91	267286	55.230	ug/l	98
79) 2-Chlorotoluene	11.366	91	161444	55.320	ug/l	96
80) 1,3,5-Trimethylbenzene	11.451	105	222477	66.772	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	19800	53.014	ug/l	93
82) 4-Chlorotoluene	11.451	91	175929	50.859	ug/l	98
83) tert-Butylbenzene	11.713	119	176725	52.104	ug/l	95
84) 1,2,4-Trimethylbenzene	11.750	105	360749	107.026	ug/l	97
85) sec-Butylbenzene	11.890	105	226809	52.042	ug/l	99
86) p-Isopropyltoluene	12.006	119	188231	51.808	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	90262	50.085	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	93039	49.822	ug/l	99
89) n-Butylbenzene	12.329	91	190986	53.528	ug/l	94
90) Hexachloroethane	12.536	117	35406	54.828	ug/l	92
91) 1,2-Dichlorobenzene	12.335	146	89646	51.533	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	15523	54.164	ug/l	92
93) 1,2,4-Trichlorobenzene	13.585	180	60470	50.957	ug/l	96
94) Hexachlorobutadiene	13.725	225	24818	45.002	ug/l	97
95) Naphthalene	13.774	128	241348	64.134	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	60200	50.592	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046642.D
Acq On : 11 Jun 2025 17:09
Operator : JC/MD
Sample : Q2230-04MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 12 02:33:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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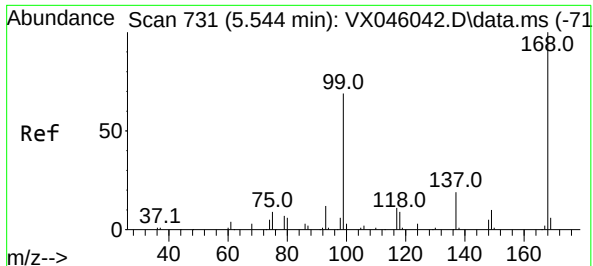
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 06/12/2025
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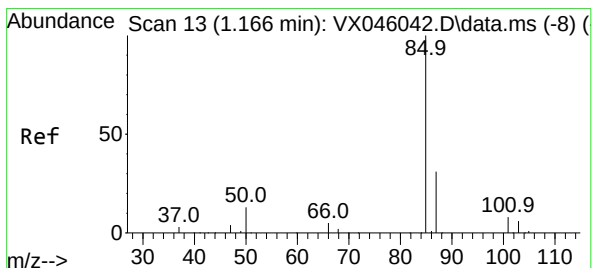
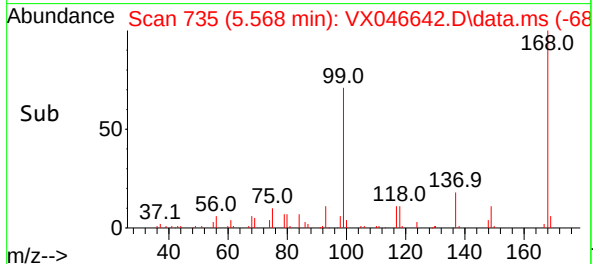
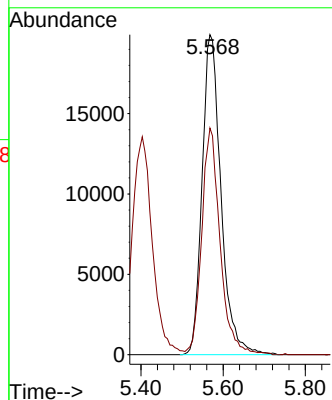
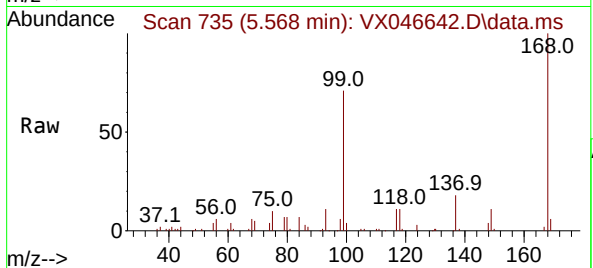
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MSD

Tgt Ion:168 Resp: 6342
Ion Ratio Lower Upper
168 100
99 70.8 54.9 82.3

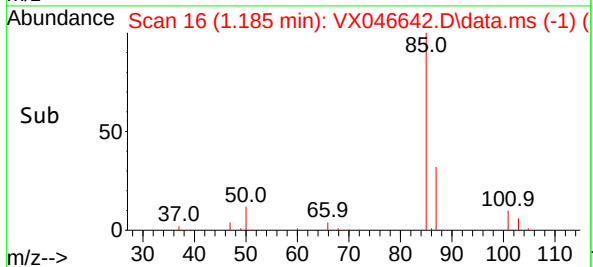
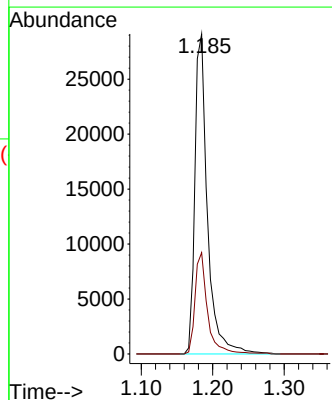
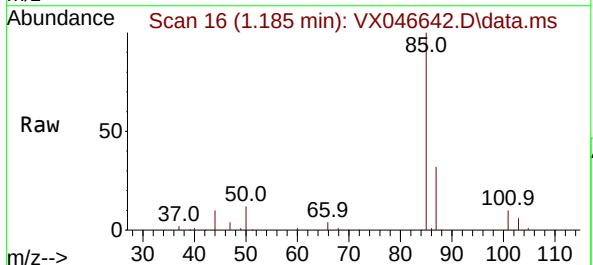
Manual Integrations
APPROVED

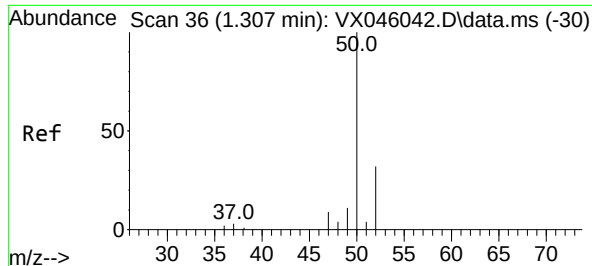
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#2
Dichlorodifluoromethane
Concen: 40.295 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

Tgt Ion: 85 Resp: 35479
Ion Ratio Lower Upper
85 100
87 31.7 15.7 47.1





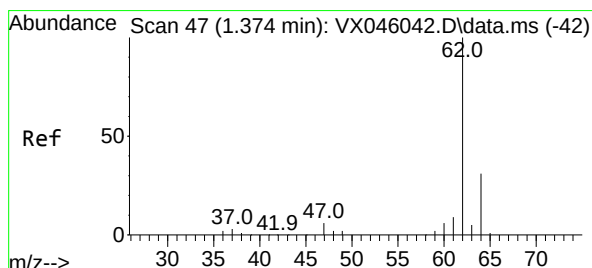
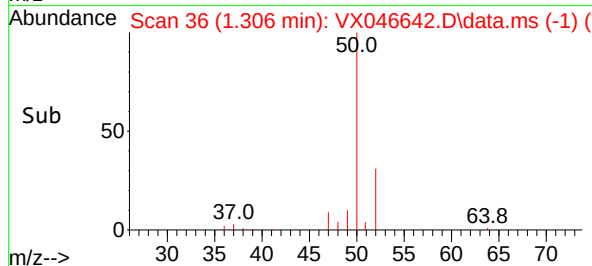
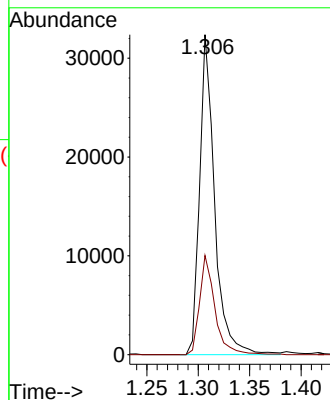
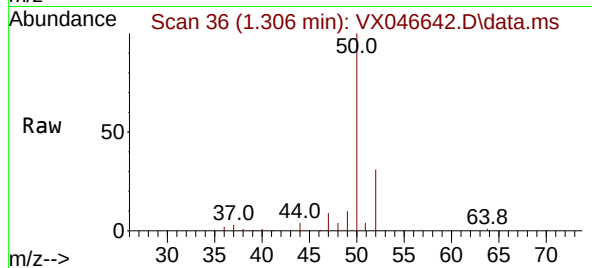
#3
Chloromethane
Concen: 41.211 ug/l
RT: 1.306 min Scan# 30
Delta R.T. -0.001 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MSD

Tgt Ion: 50 Resp: 33028
Ion Ratio Lower Upper
50 100
52 31.0 25.4 38.2

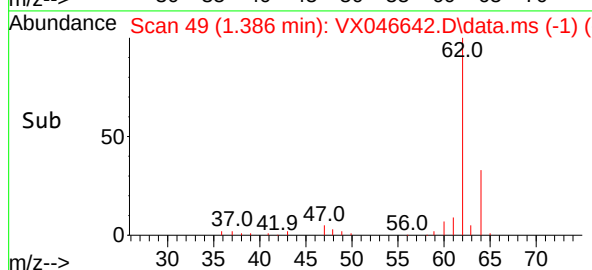
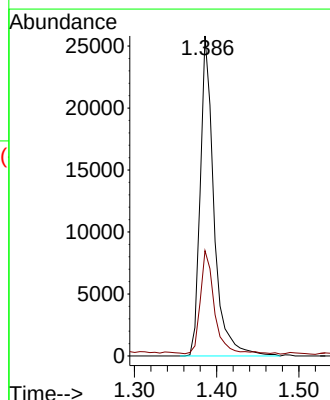
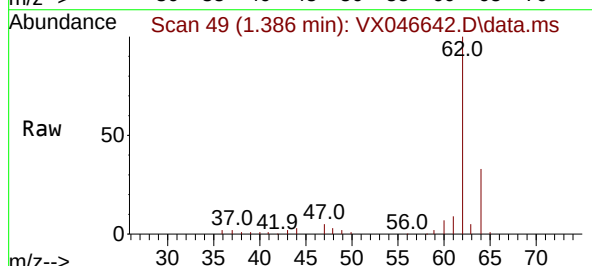
Manual Integrations
APPROVED

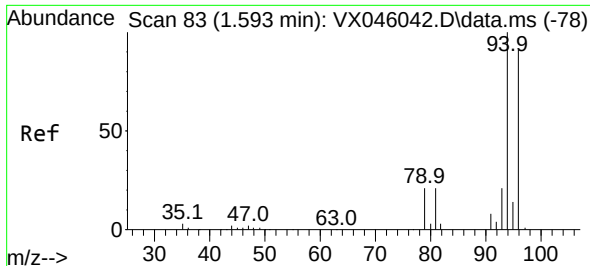
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#4
Vinyl Chloride
Concen: 37.489 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

Tgt Ion: 62 Resp: 29951
Ion Ratio Lower Upper
62 100
64 32.3 25.2 37.8





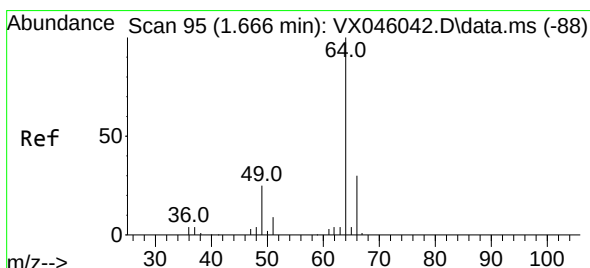
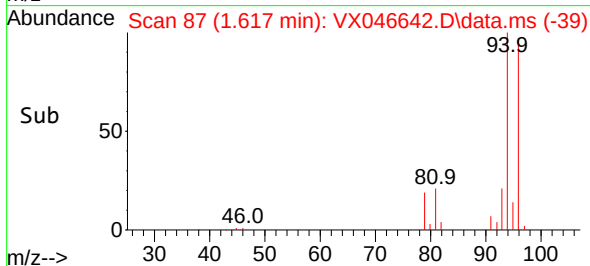
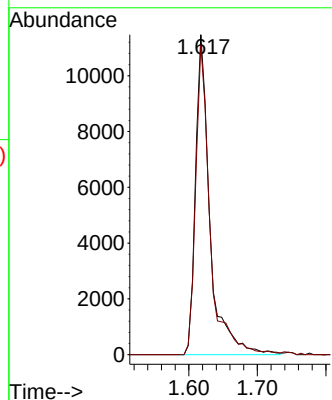
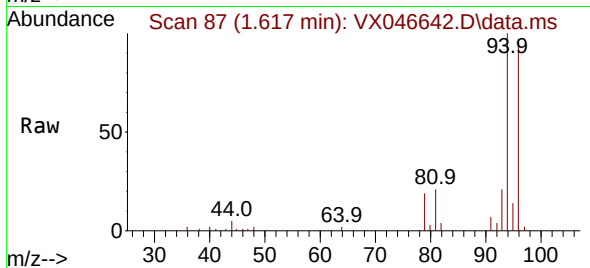
#5
Bromomethane
Concen: 34.717 ug/l
RT: 1.617 min Scan# 81
Delta R.T. -0.007 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MSD

Tgt Ion: 94 Resp: 16838
Ion Ratio Lower Upper
94 100
96 96.7 72.8 109.2

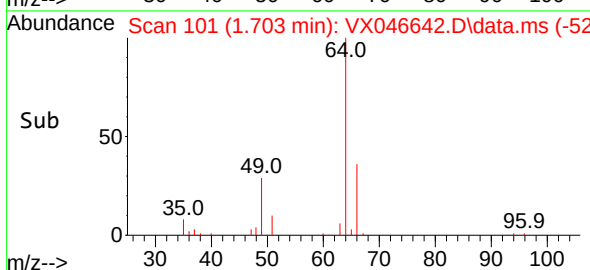
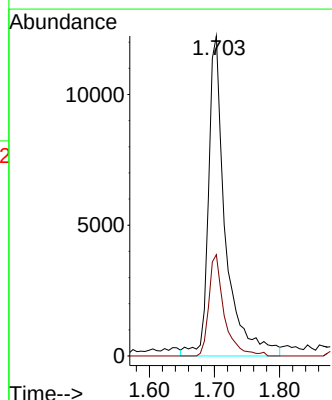
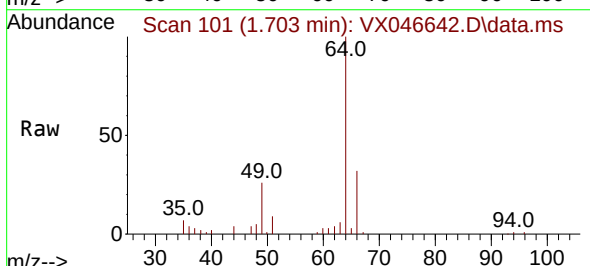
Manual Integrations
APPROVED

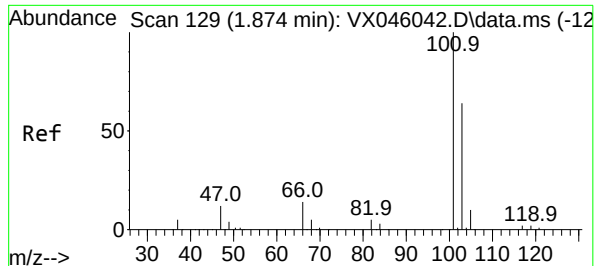
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#6
Chloroethane
Concen: 42.814 ug/l m
RT: 1.703 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

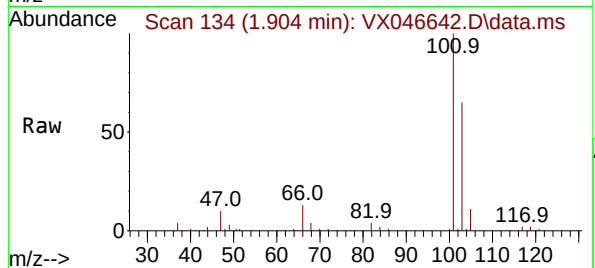
Tgt Ion: 64 Resp: 22193
Ion Ratio Lower Upper
64 100
66 31.6 24.3 36.5





#7
Trichlorofluoromethane
Concen: 43.032 ug/l
RT: 1.904 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

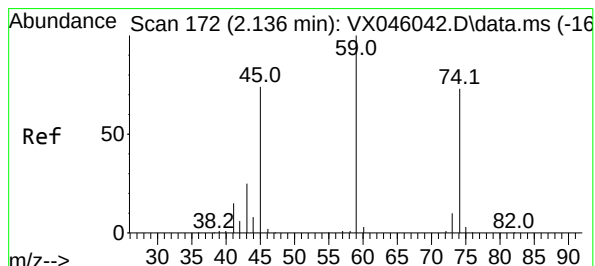
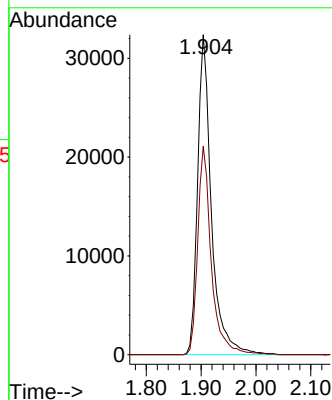
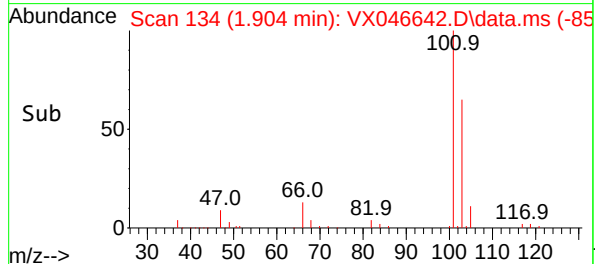
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MSD



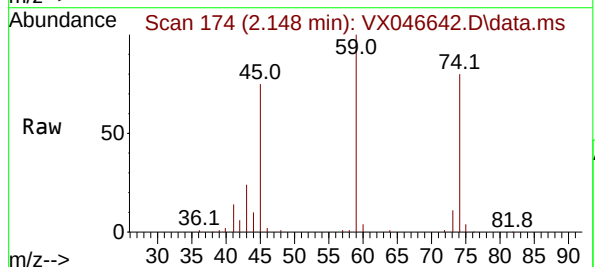
Tgt Ion:101 Resp: 5688
Ion Ratio Lower Upper
101 100
103 65.1 51.0 76.4

Manual Integrations
APPROVED

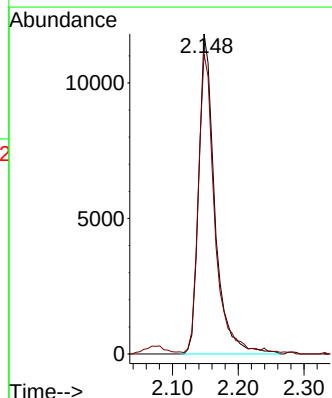
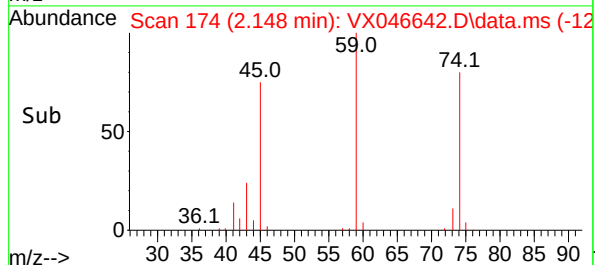
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

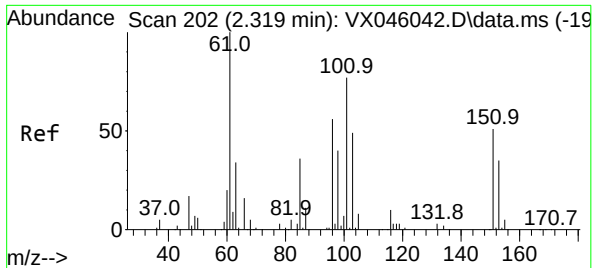


#8
Diethyl Ether
Concen: 42.992 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.006 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09



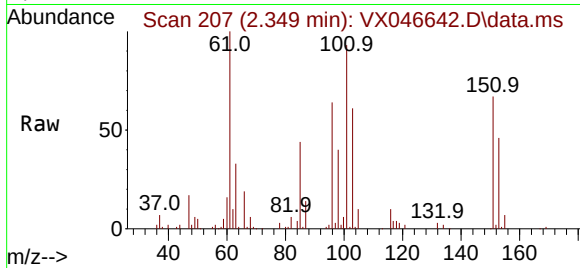
Tgt Ion: 74 Resp: 20079
Ion Ratio Lower Upper
74 100
45 97.1 54.9 164.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.574 ug/l
RT: 2.349 min Scan# 207
Delta R.T. -0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

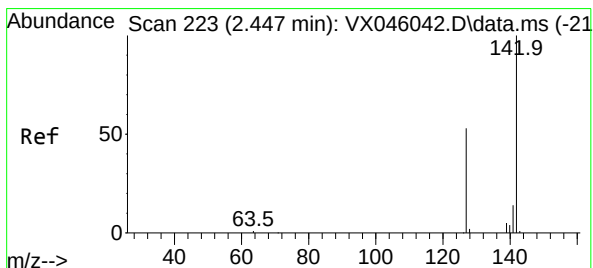
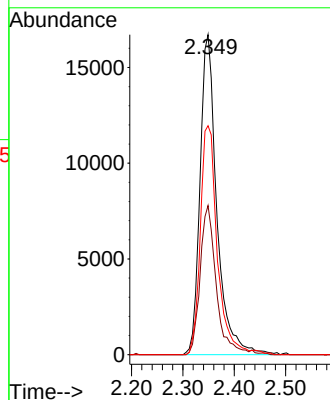
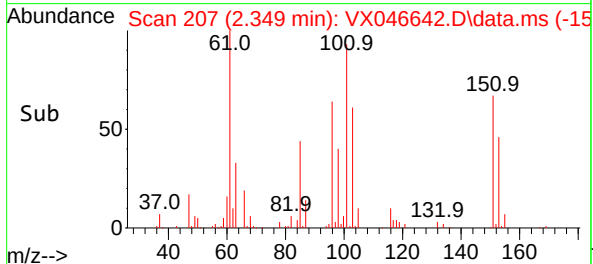
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MSD



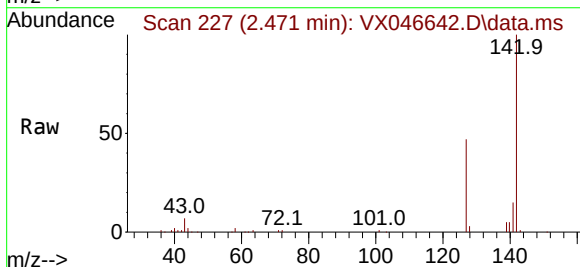
Tgt Ion:101 Resp: 37954
Ion Ratio Lower Upper
101 100
85 45.2 38.6 58.0
151 72.9 55.2 82.8

Manual Integrations
APPROVED

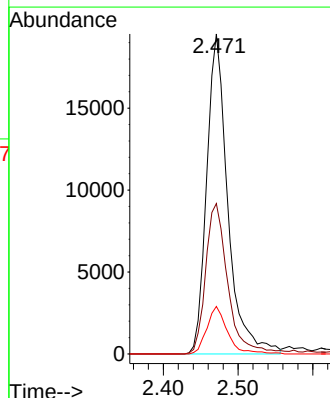
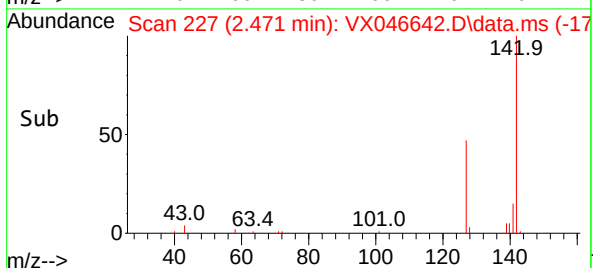
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

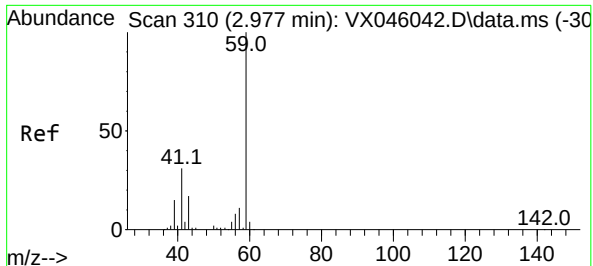


#10
Methyl Iodide
Concen: 42.479 ug/l
RT: 2.471 min Scan# 227
Delta R.T. -0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09



Tgt Ion:142 Resp: 38349
Ion Ratio Lower Upper
142 100
127 49.4 41.7 62.5
141 14.6 11.5 17.3





#11

Tert butyl alcohol

Concen: 257.915 ug/l

RT: 2.971 min Scan# 30

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 59 Resp: 3229

Ion Ratio Lower Upper

59 100

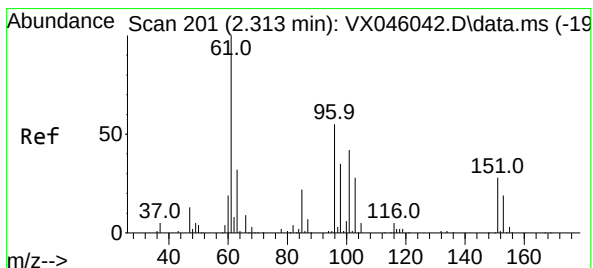
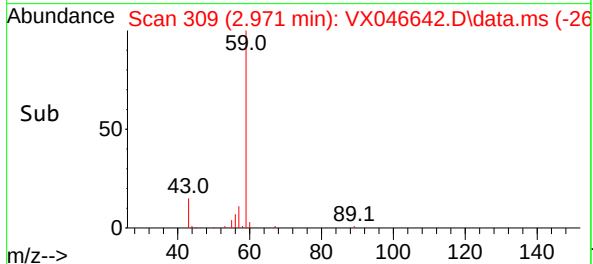
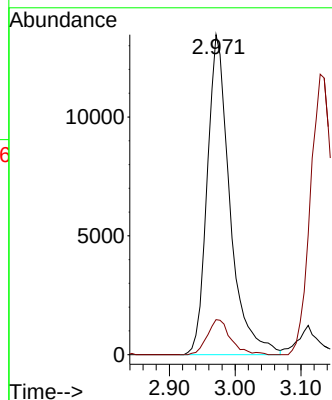
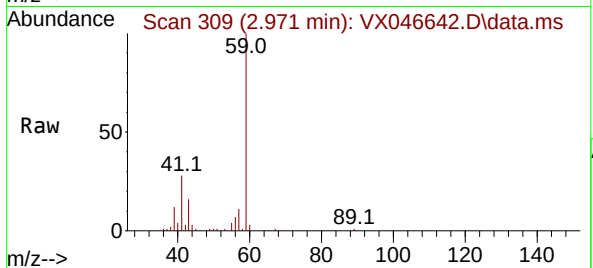
57 11.3 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#12

1,1-Dichloroethene

Concen: 48.394 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

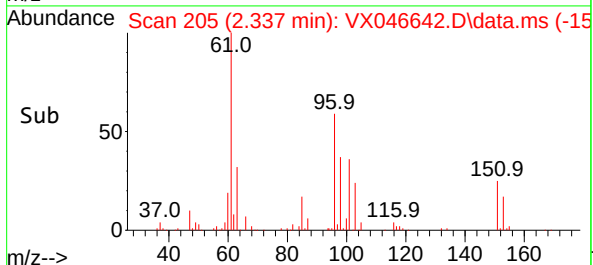
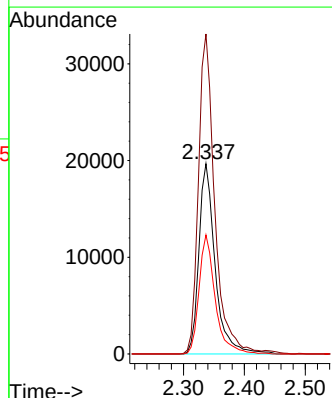
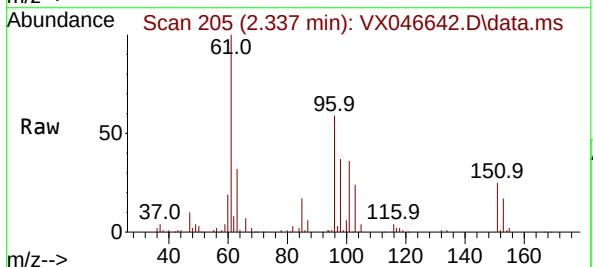
Tgt Ion: 96 Resp: 36439

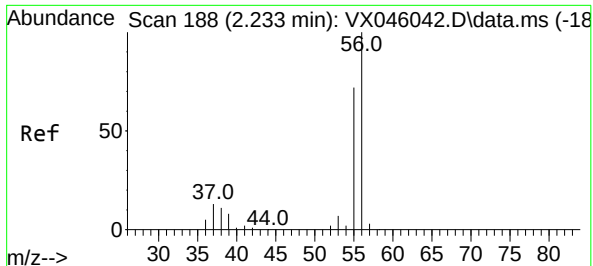
Ion Ratio Lower Upper

96 100

61 168.3 146.2 219.2

98 62.6 51.0 76.6





#13

Acrolein

Concen: 387.953 ug/l

RT: 2.251 min Scan# 191

Delta R.T. 0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 56 Resp: 61590

Ion Ratio Lower Upper

56 100

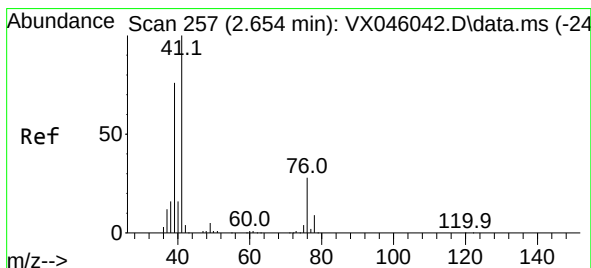
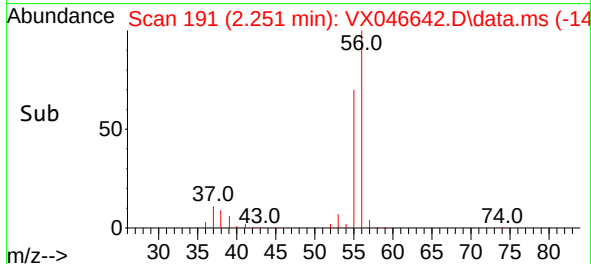
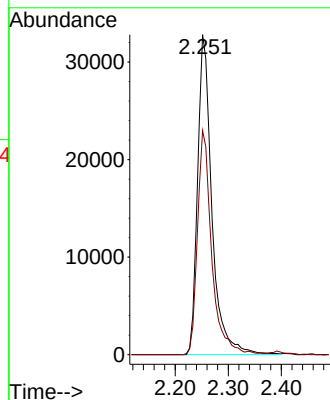
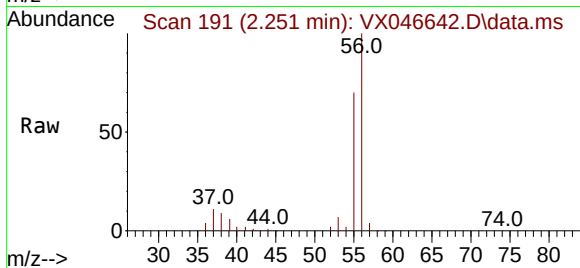
55 69.8 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#14

Allyl chloride

Concen: 48.799 ug/l

RT: 2.684 min Scan# 262

Delta R.T. 0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

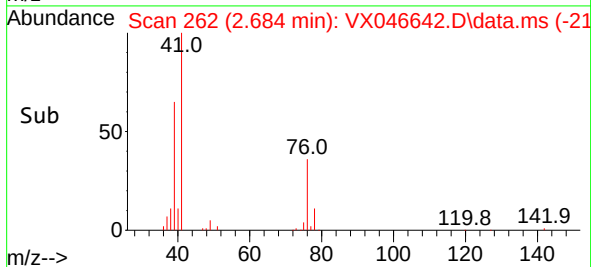
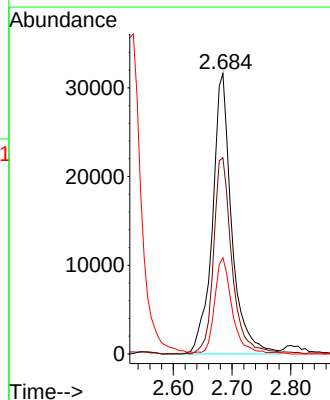
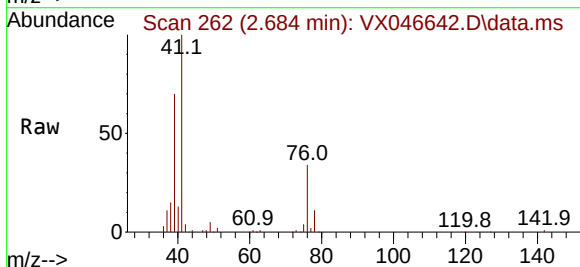
Tgt Ion: 41 Resp: 72164

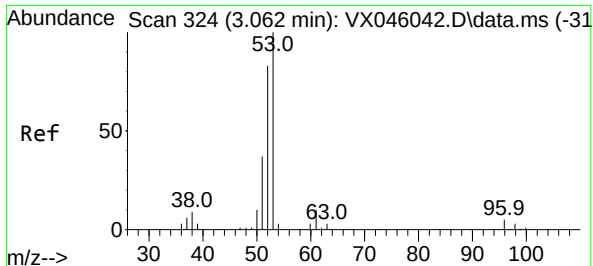
Ion Ratio Lower Upper

41 100

39 67.2 60.6 90.8

76 31.4 24.9 37.3





#15

Acrylonitrile

Concen: 265.377 ug/l

RT: 3.081 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 53 Resp: 12562

Ion Ratio Lower Upper

53 100

52 84.0 65.3 97.9

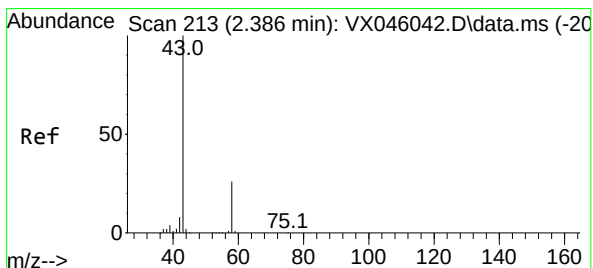
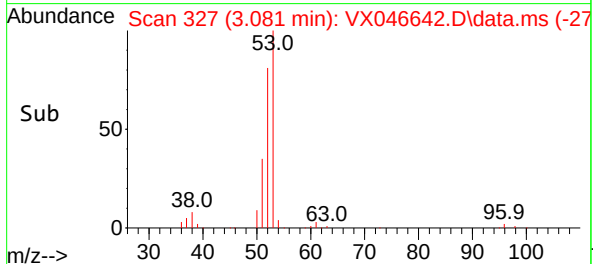
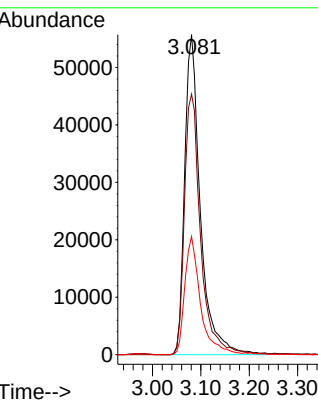
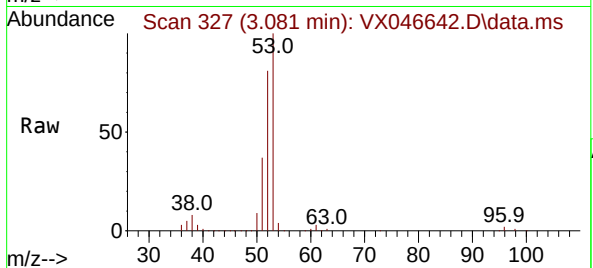
51 36.9 29.8 44.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#16

Acetone

Concen: 325.237 ug/l

RT: 2.392 min Scan# 214

Delta R.T. -0.000 min

Lab File: VX046642.D

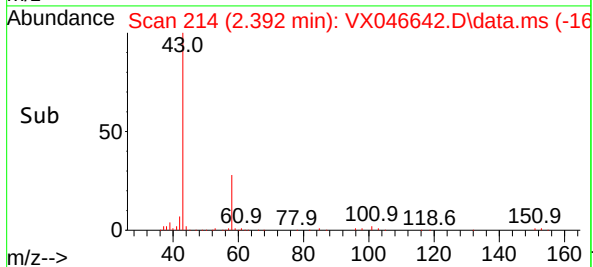
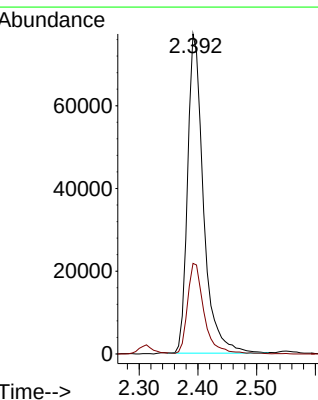
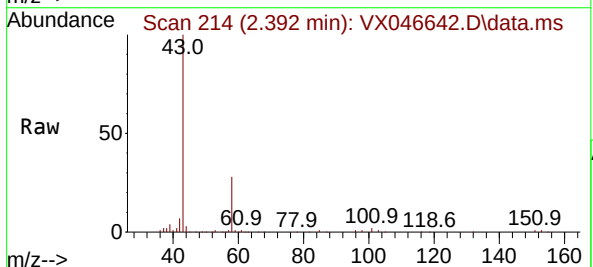
Acq: 11 Jun 2025 17:09

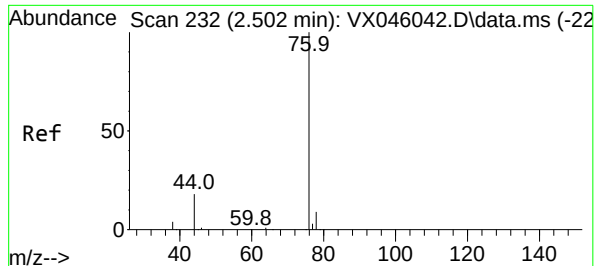
Tgt Ion: 43 Resp: 144733

Ion Ratio Lower Upper

43 100

58 28.2 21.2 31.8





#17

Carbon Disulfide

Concen: 44.176 ug/l

RT: 2.532 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 76 Resp: 70590

Ion Ratio Lower Upper

76 100

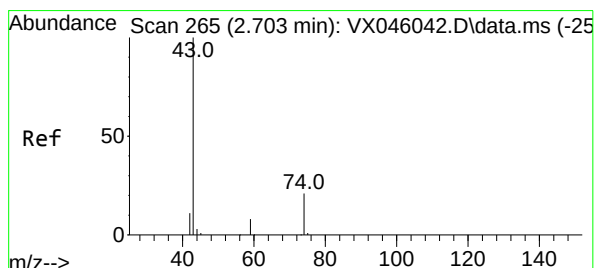
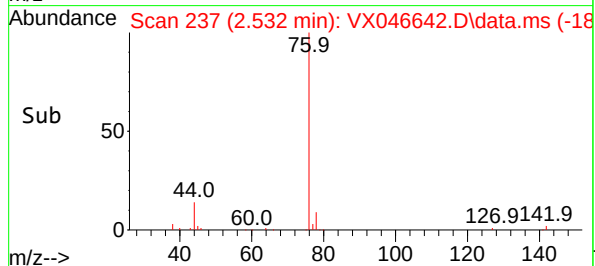
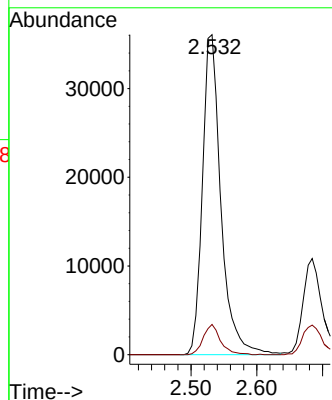
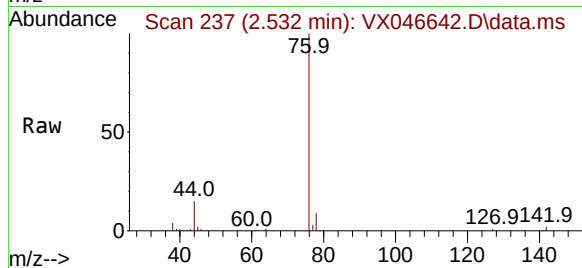
78 9.4 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#18

Methyl Acetate

Concen: 55.805 ug/l

RT: 2.721 min Scan# 268

Delta R.T. -0.000 min

Lab File: VX046642.D

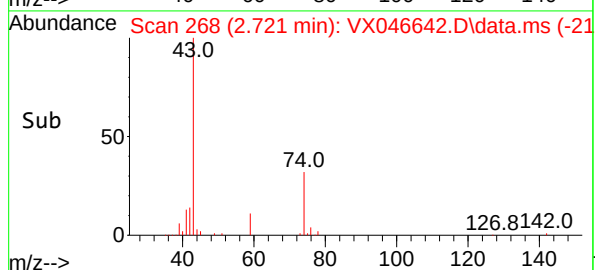
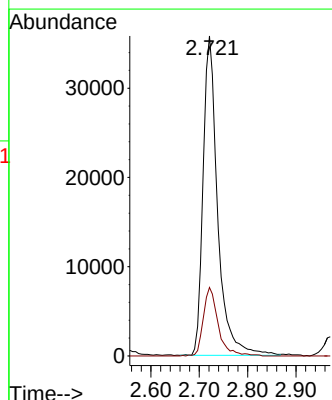
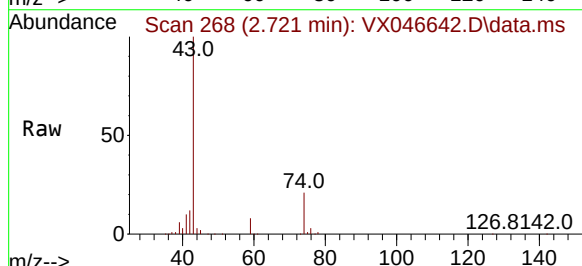
Acq: 11 Jun 2025 17:09

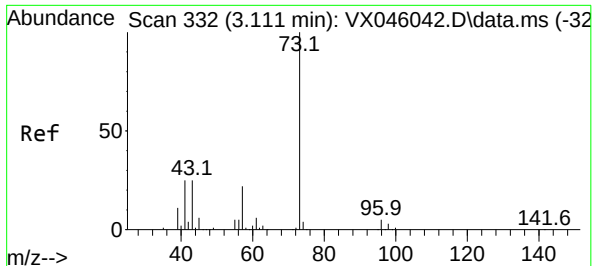
Tgt Ion: 43 Resp: 75002

Ion Ratio Lower Upper

43 100

74 21.9 16.7 25.1





#19

Methyl tert-butyl Ether

Concen: 53.209 ug/l

RT: 3.129 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 73 Resp: 14019

Ion Ratio Lower Upper

73 100

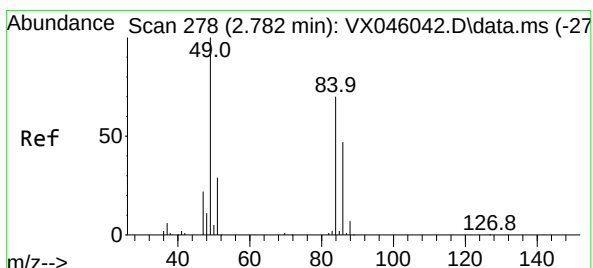
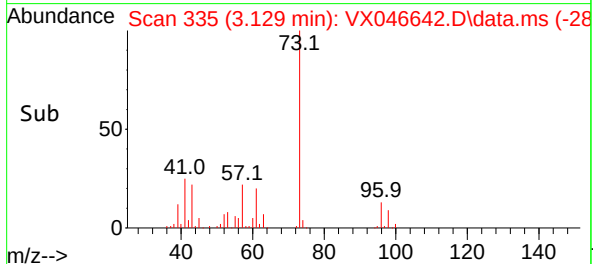
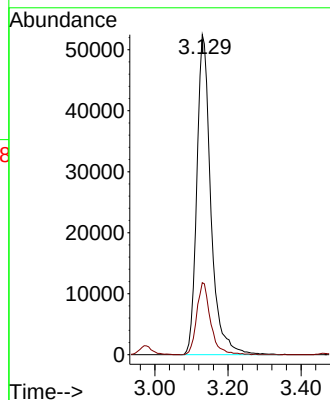
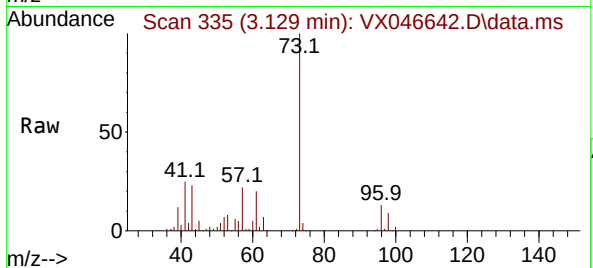
57 22.5 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#20

Methylene Chloride

Concen: 46.875 ug/l

RT: 2.806 min Scan# 282

Delta R.T. 0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Tgt Ion: 84 Resp: 42432

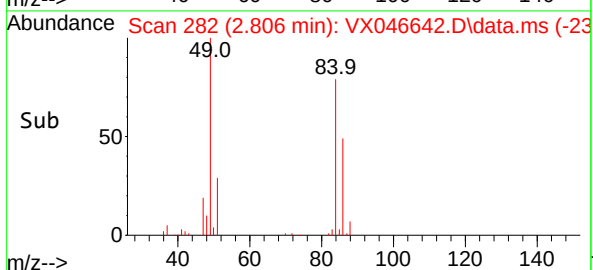
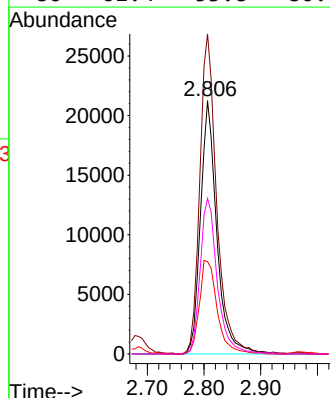
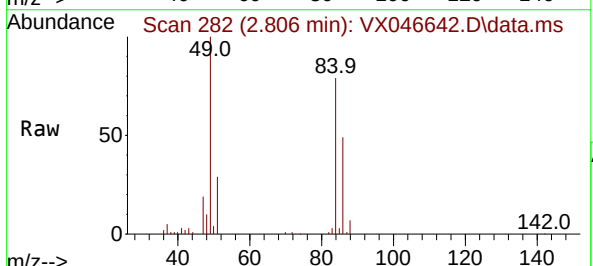
Ion Ratio Lower Upper

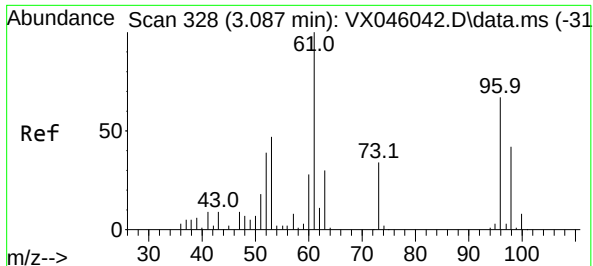
84 100

49 126.4 113.9 170.9

51 36.5 33.5 50.3

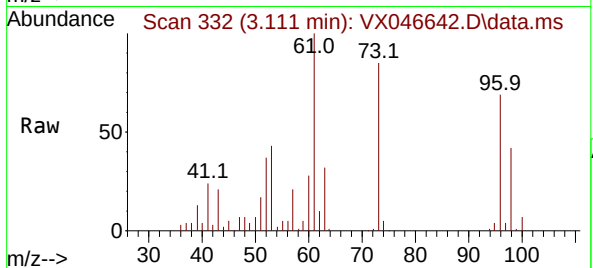
86 61.4 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 46.631 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

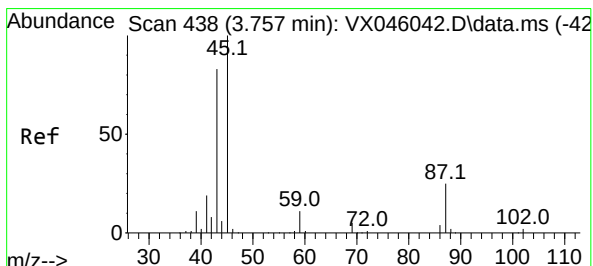
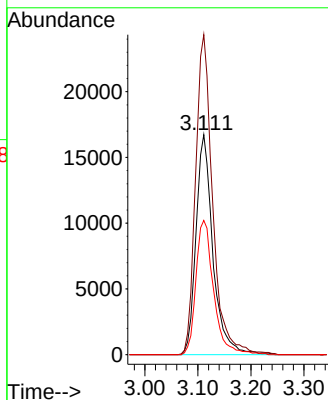
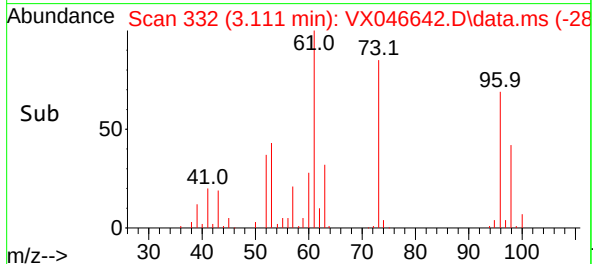
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MSD



Tgt Ion: 96 Resp: 37158
Ion Ratio Lower Upper
96 100
61 145.5 119.5 179.3
98 61.0 50.0 75.0

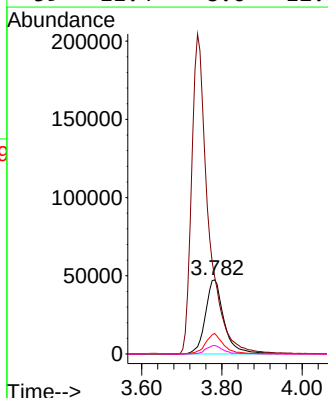
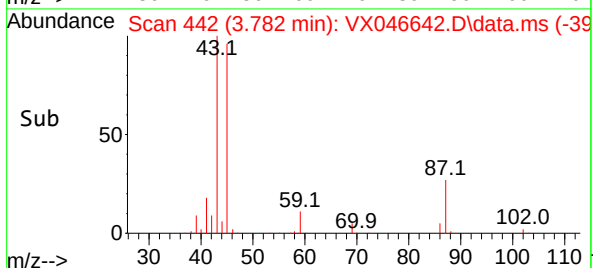
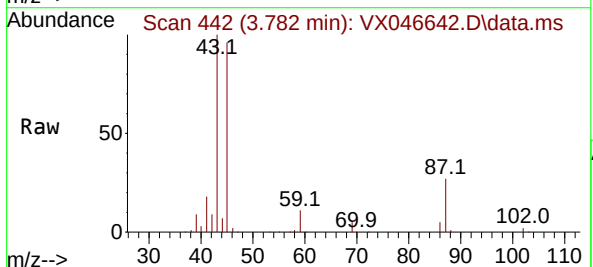
Manual Integrations
APPROVED

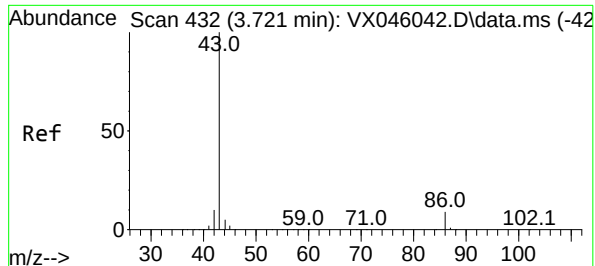
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#22
Diisopropyl ether
Concen: 52.249 ug/l
RT: 3.782 min Scan# 442
Delta R.T. -0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

Tgt Ion: 45 Resp: 152331
Ion Ratio Lower Upper
45 100
43 104.1 66.6 100.0#
87 27.6 19.8 29.6
59 11.4 8.6 12.8





#23

Vinyl Acetate

Concen: 264.301 ug/l

RT: 3.739 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 43 Resp: 59492

Ion Ratio Lower Upper

43 100

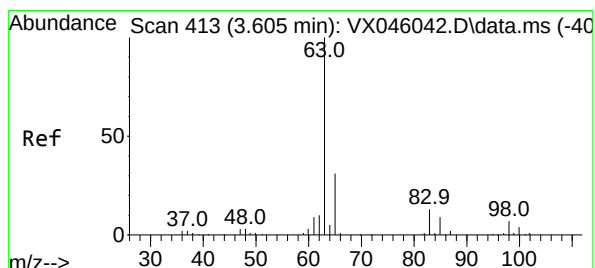
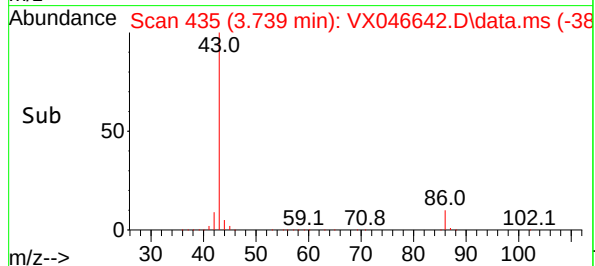
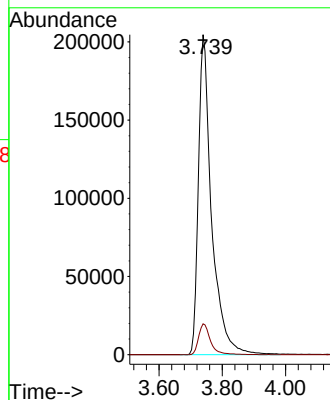
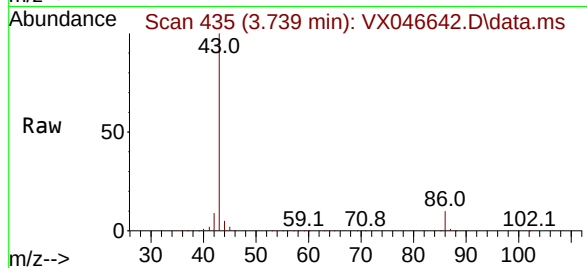
86 9.7 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#24

1,1-Dichloroethane

Concen: 49.484 ug/l

RT: 3.629 min Scan# 417

Delta R.T. 0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

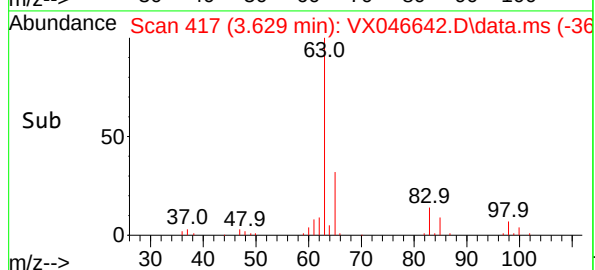
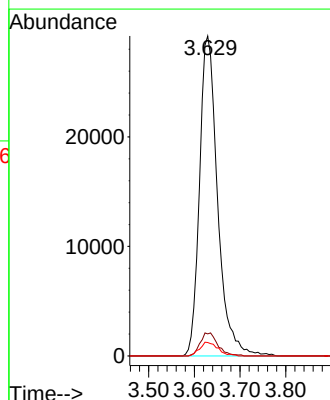
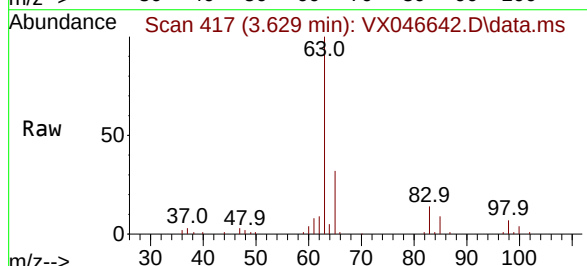
Tgt Ion: 63 Resp: 80406

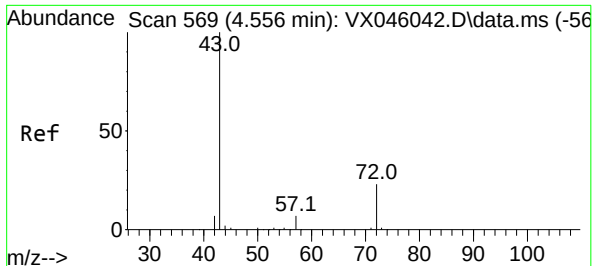
Ion Ratio Lower Upper

63 100

98 6.9 3.6 10.8

100 4.2 2.1 6.3





#25

2-Butanone

Concen: 281.404 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 43 Resp: 17675

Ion Ratio Lower Upper

43 100

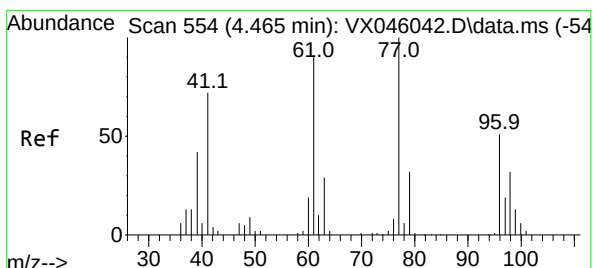
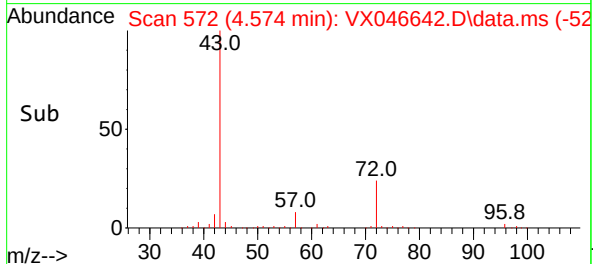
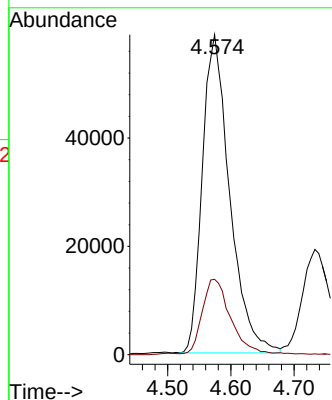
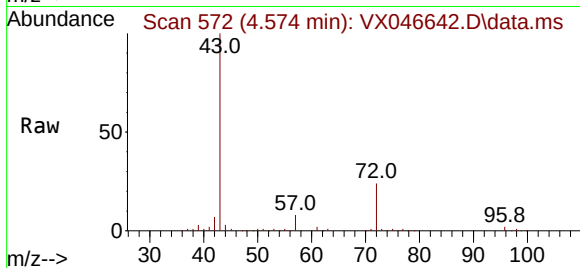
72 23.4 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#26

2,2-Dichloropropane

Concen: 51.526 ug/l

RT: 4.495 min Scan# 559

Delta R.T. -0.000 min

Lab File: VX046642.D

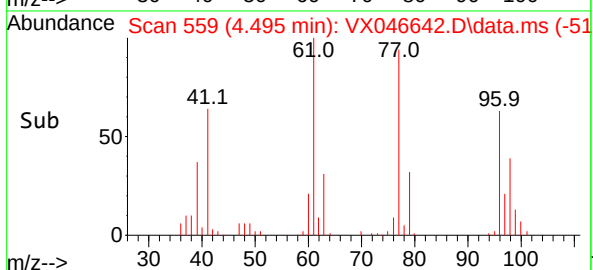
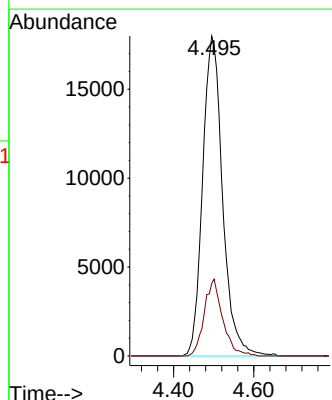
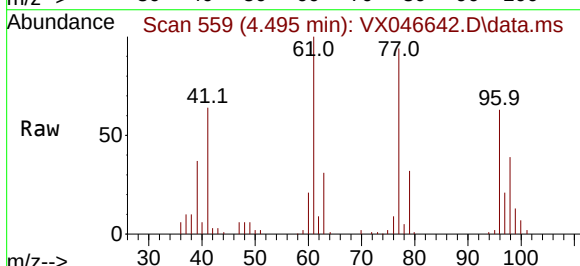
Acq: 11 Jun 2025 17:09

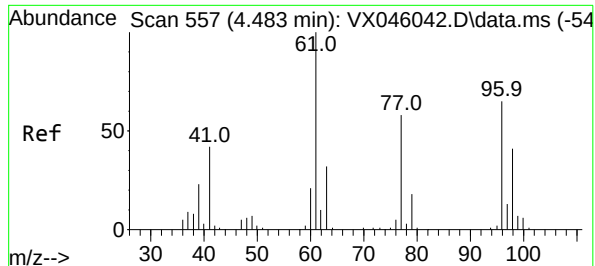
Tgt Ion: 77 Resp: 62154

Ion Ratio Lower Upper

77 100

97 22.2 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 50.677 ug/l

RT: 4.507 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 96 Resp: 4971

Ion Ratio Lower Upper

96 100

61 150.3 0.0 322.8

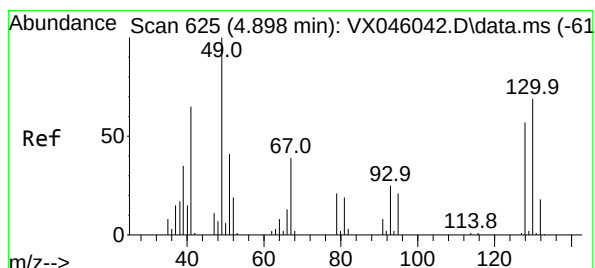
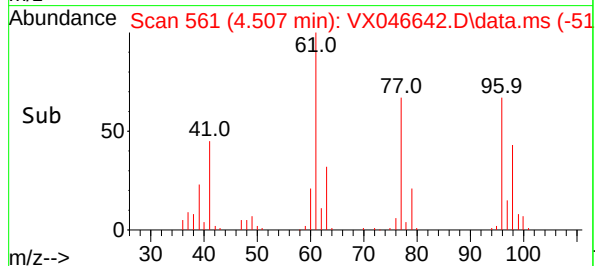
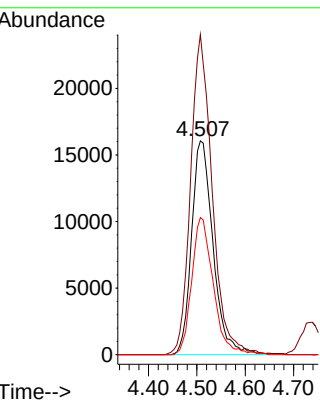
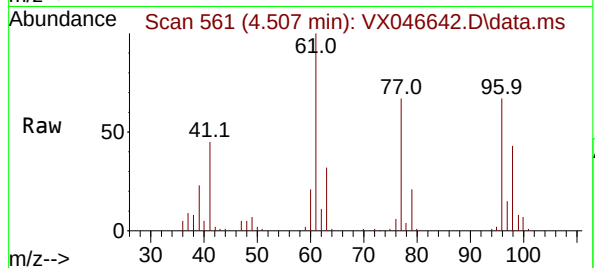
98 64.0 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#28

Bromochloromethane

Concen: 49.162 ug/l

RT: 4.916 min Scan# 628

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

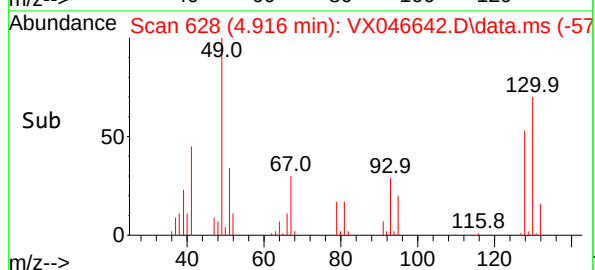
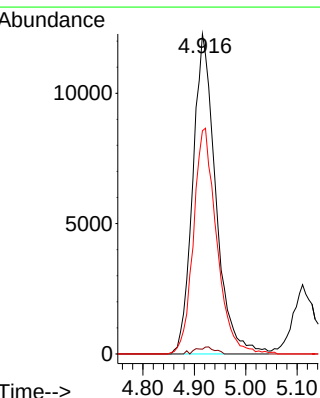
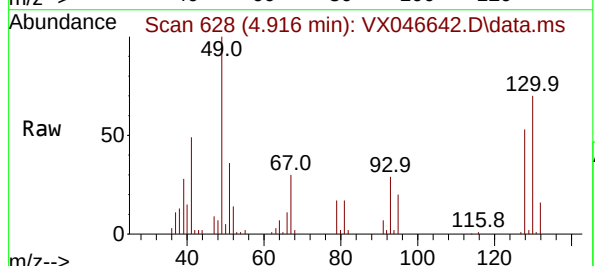
Tgt Ion: 49 Resp: 38101

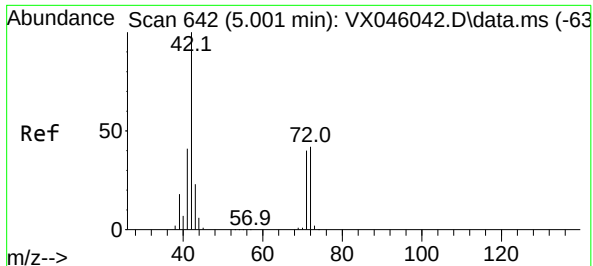
Ion Ratio Lower Upper

49 100

129 1.8 0.0 4.0

130 71.6 56.2 84.2





#29

Tetrahydrofuran

Concen: 264.527 ug/l

RT: 5.019 min Scan# 64

Delta R.T. 0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 42 Resp: 10493

Ion Ratio Lower Upper

42 100

72 42.6 33.7 50.5

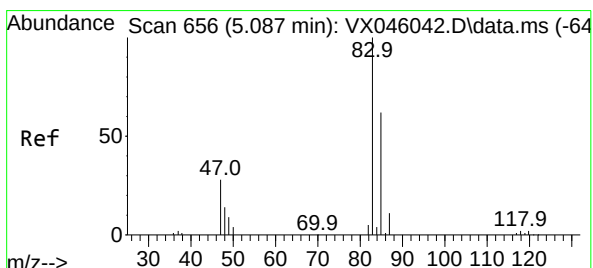
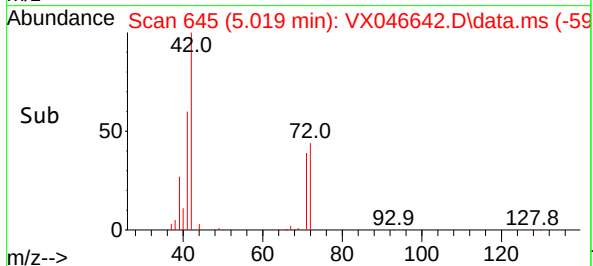
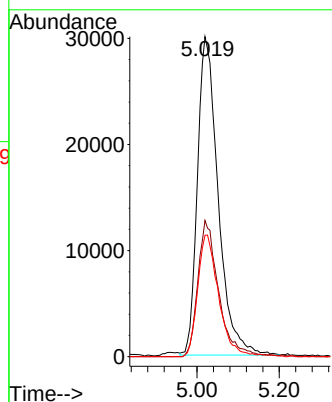
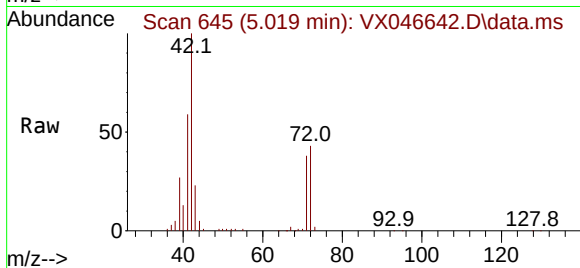
71 38.5 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#30

Chloroform

Concen: 55.253 ug/l

RT: 5.111 min Scan# 660

Delta R.T. -0.000 min

Lab File: VX046642.D

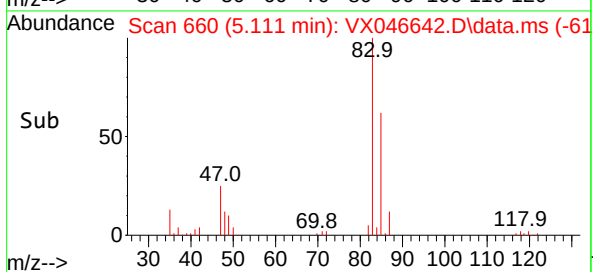
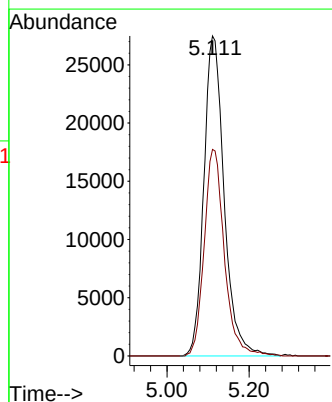
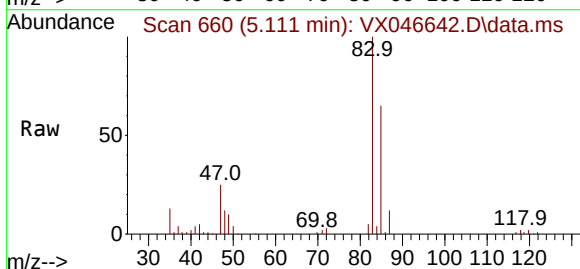
Acq: 11 Jun 2025 17:09

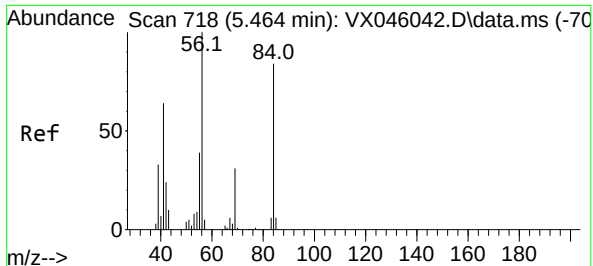
Tgt Ion: 83 Resp: 94071

Ion Ratio Lower Upper

83 100

85 64.6 49.3 73.9





#31

Cyclohexane

Concen: 48.103 ug/l

RT: 5.483 min Scan# 718

Delta R.T. -0.006 min

Lab File: VX046642.D

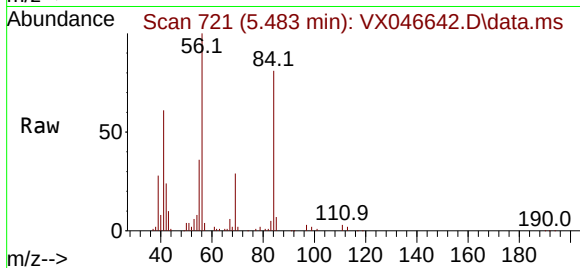
Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD



Tgt Ion: 56 Resp: 63100

Ion Ratio Lower Upper

56 100

69 28.9 24.4 36.6

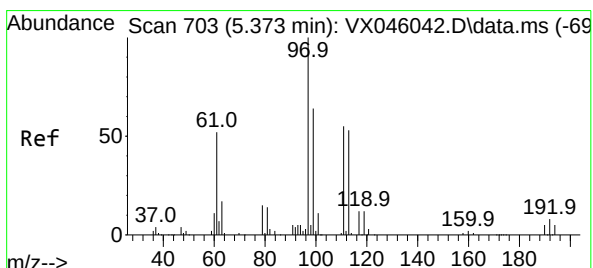
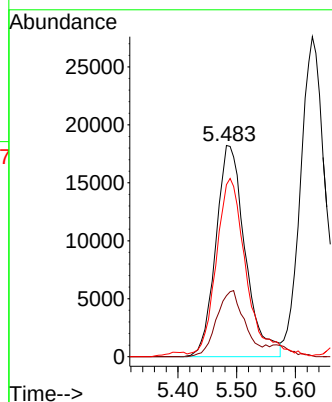
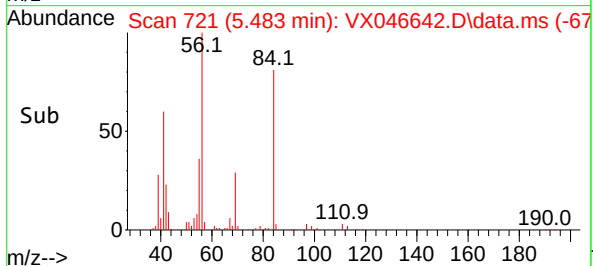
84 79.4 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#32

1,1,1-Trichloroethane

Concen: 49.741 ug/l

RT: 5.403 min Scan# 708

Delta R.T. 0.006 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

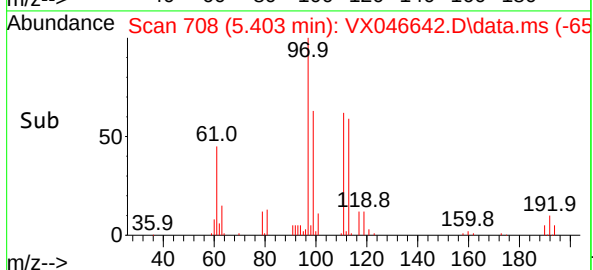
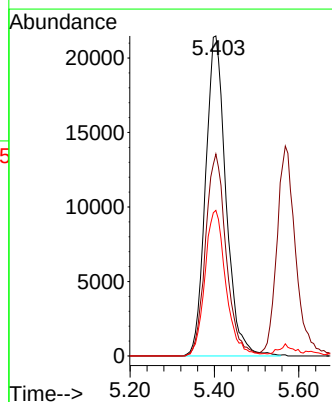
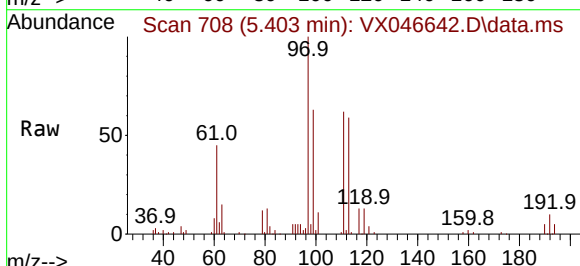
Tgt Ion: 97 Resp: 72442

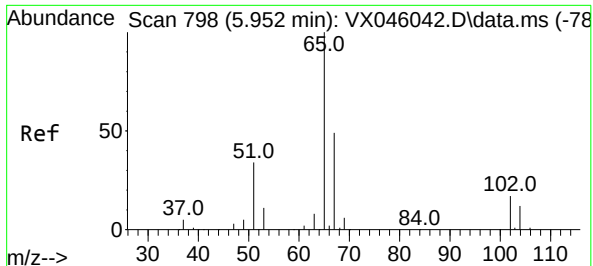
Ion Ratio Lower Upper

97 100

99 64.0 51.8 77.6

61 46.7 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 45.906 ug/l

RT: 5.970 min Scan# 801

Delta R.T. 0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 65 Resp: 51798

Ion Ratio Lower Upper

65 100

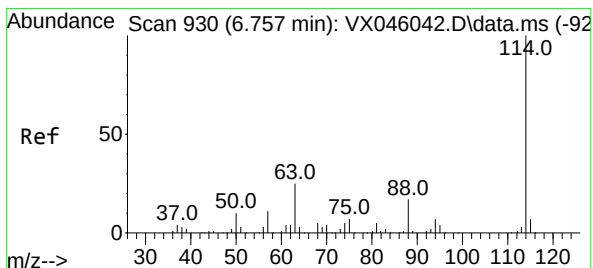
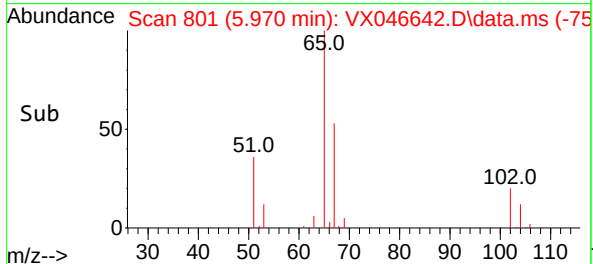
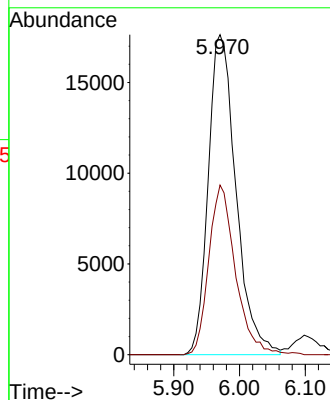
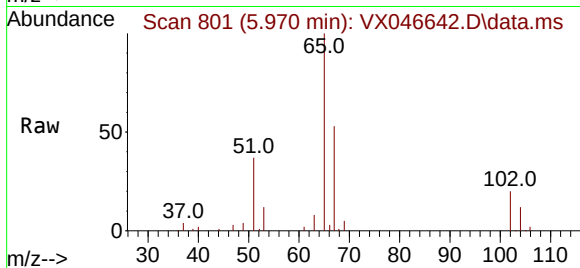
67 50.9 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.775 min Scan# 933

Delta R.T. 0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

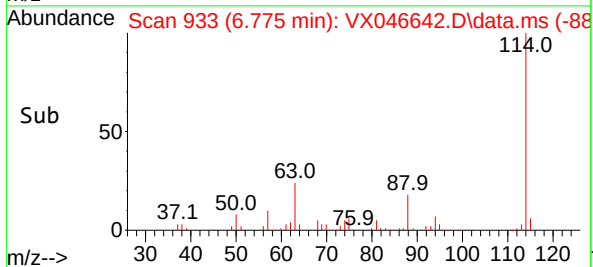
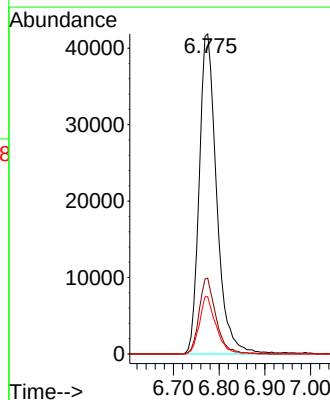
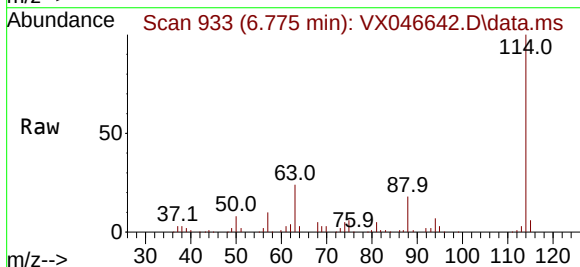
Tgt Ion:114 Resp: 110741

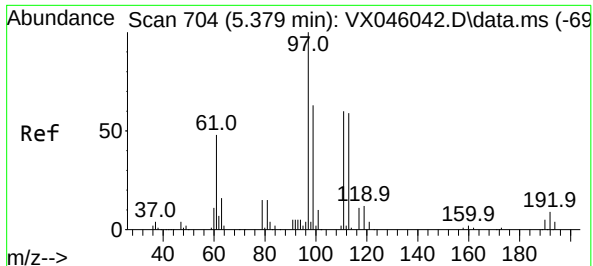
Ion Ratio Lower Upper

114 100

63 23.7 0.0 49.2

88 17.9 0.0 33.6





#35

Dibromofluoromethane

Concen: 50.393 ug/l

RT: 5.403 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX046642.D

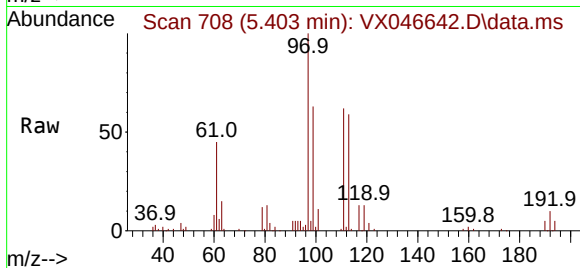
Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD



Tgt Ion:113 Resp: 41039

Ion Ratio Lower Upper

113 100

111 101.8 83.1 124.7

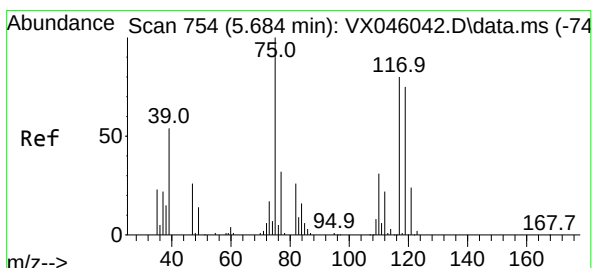
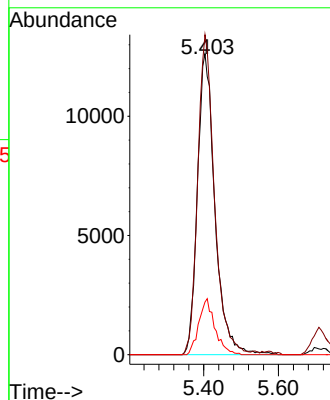
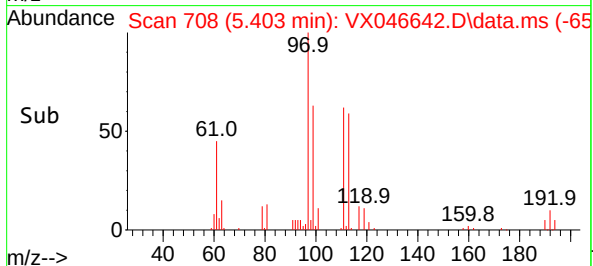
192 17.1 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#36

1,1-Dichloropropene

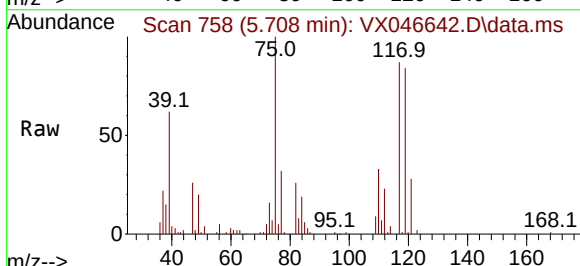
Concen: 44.934 ug/l

RT: 5.708 min Scan# 758

Delta R.T. -0.006 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09



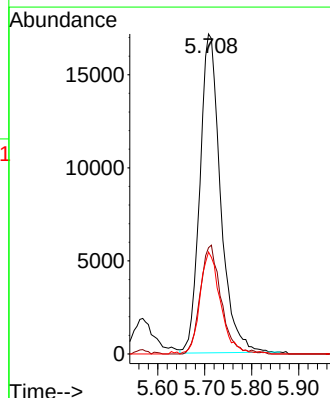
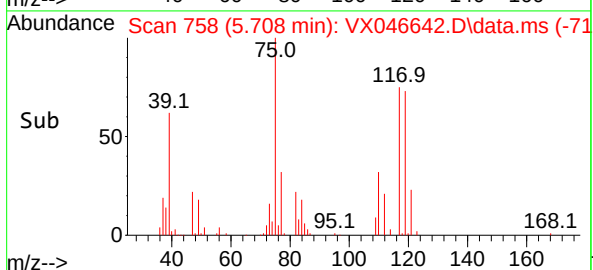
Tgt Ion: 75 Resp: 52271

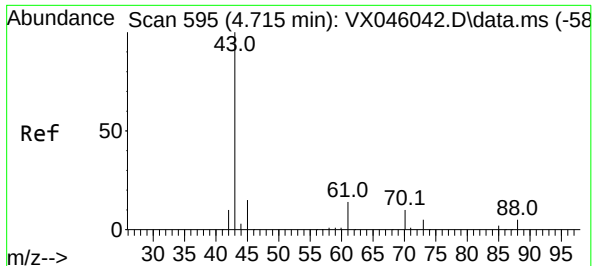
Ion Ratio Lower Upper

75 100

110 34.7 16.3 48.9

77 31.8 24.3 36.5





#37

Ethyl Acetate

Concen: 56.235 ug/l

RT: 4.733 min Scan# 595

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 43 Resp: 6384

Ion Ratio Lower Upper

43 100

61 11.3 10.3 15.5

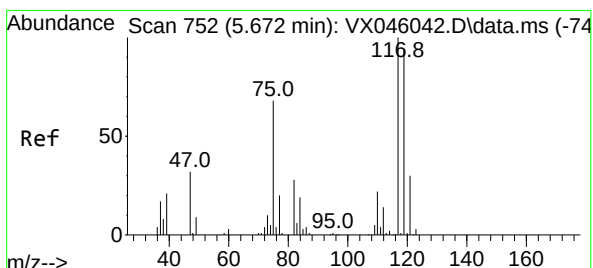
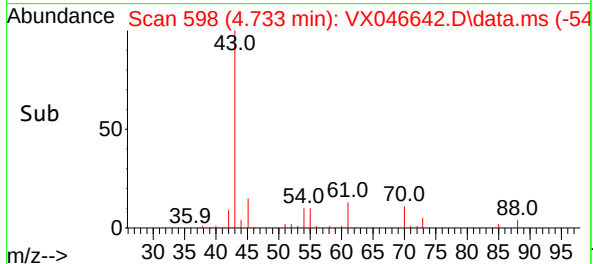
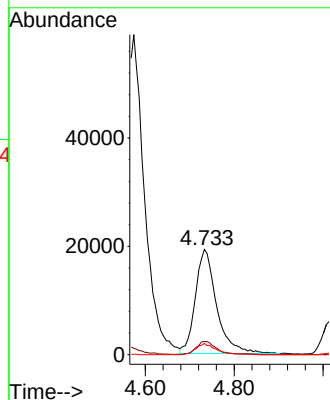
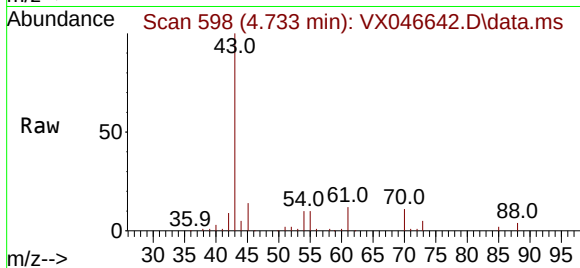
70 10.1 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#38

Carbon Tetrachloride

Concen: 47.597 ug/l

RT: 5.696 min Scan# 756

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

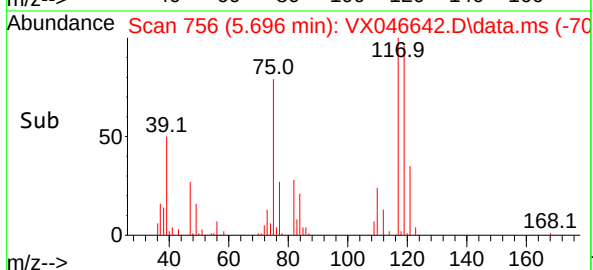
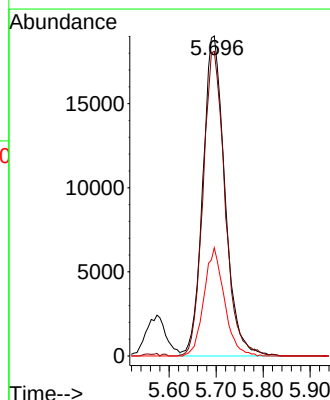
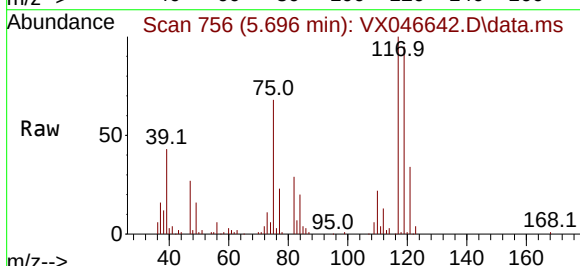
Tgt Ion:117 Resp: 62017

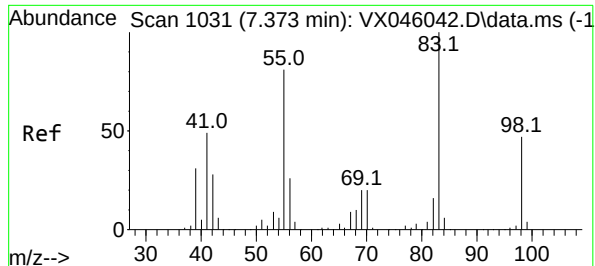
Ion Ratio Lower Upper

117 100

119 95.2 75.2 112.8

121 33.8 24.2 36.4





#39

Methylcyclohexane

Concen: 46.537 ug/l

RT: 7.391 min Scan# 1034

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 83 Resp: 6389

Ion Ratio Lower Upper

83 100

55 78.1 64.7 97.1

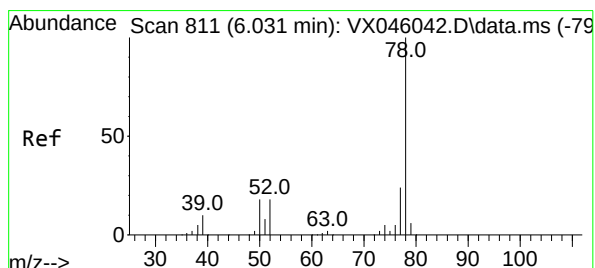
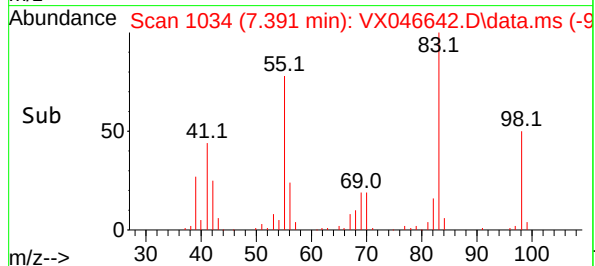
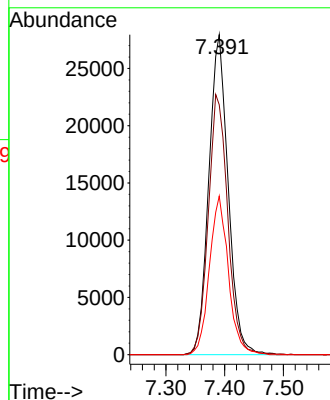
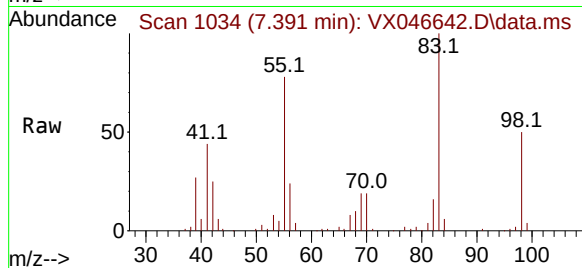
98 49.6 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#40

Benzene

Concen: 50.727 ug/l

RT: 6.050 min Scan# 814

Delta R.T. -0.006 min

Lab File: VX046642.D

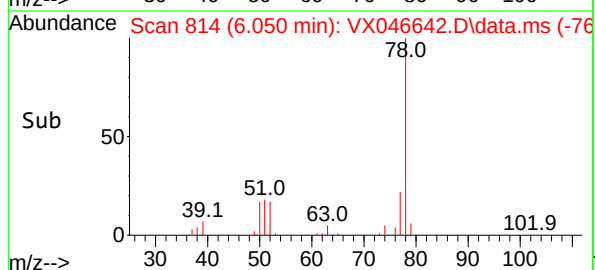
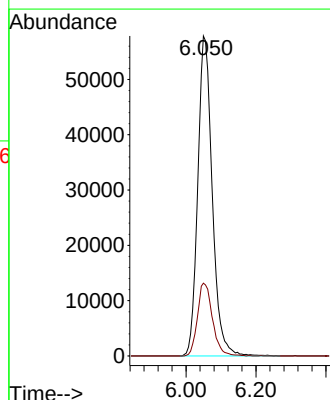
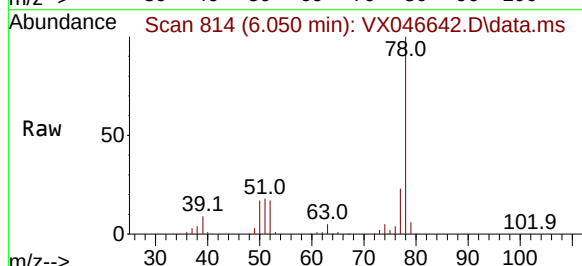
Acq: 11 Jun 2025 17:09

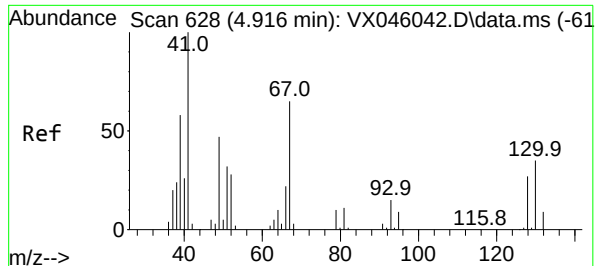
Tgt Ion: 78 Resp: 166123

Ion Ratio Lower Upper

78 100

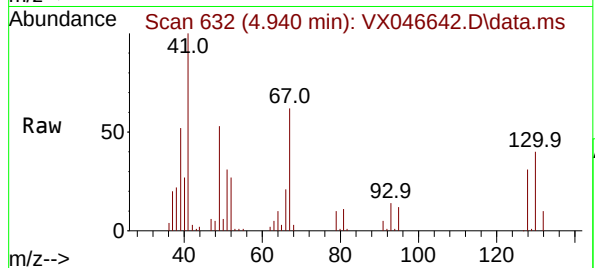
77 22.8 19.0 28.4





#41
Methacrylonitrile
Concen: 52.104 ug/l
RT: 4.940 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

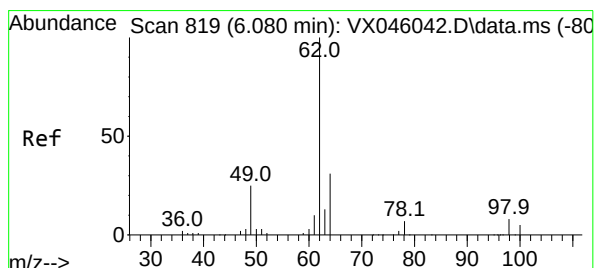
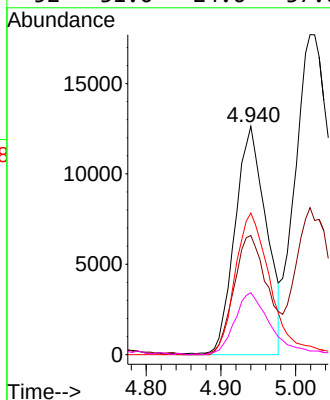
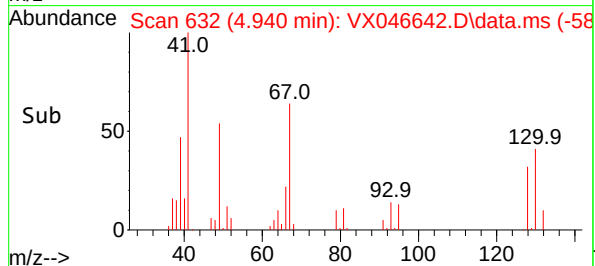
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MSD



Tgt Ion: 41 Resp: 36730
Ion Ratio Lower Upper
41 100
39 57.4 47.2 70.8
67 70.0 50.7 76.1
52 31.6 24.6 37.0

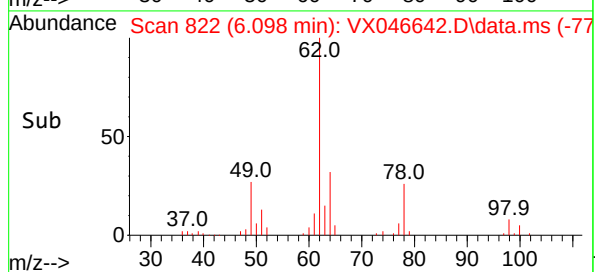
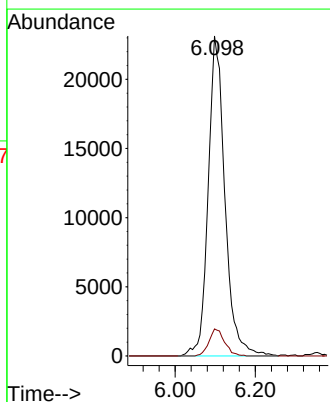
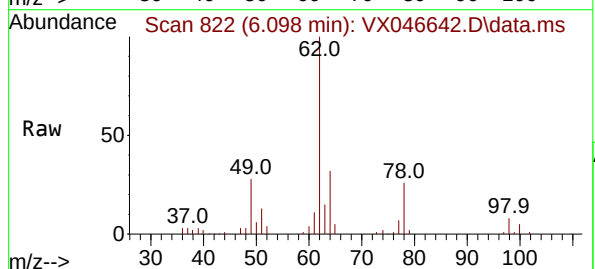
Manual Integrations
APPROVED

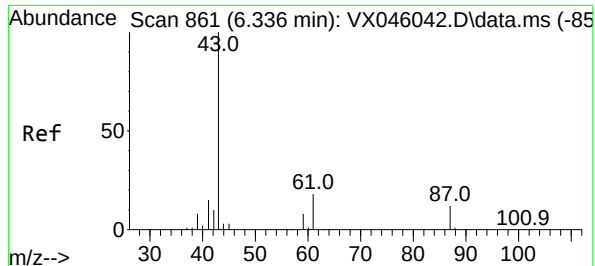
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#42
1,2-Dichloroethane
Concen: 49.126 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

Tgt Ion: 62 Resp: 66931
Ion Ratio Lower Upper
62 100
98 7.9 0.0 15.2





#43

Isopropyl Acetate

Concen: 53.028 ug/l

RT: 6.354 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 43 Resp: 104960

Ion Ratio Lower Upper

43 100

61 18.2 14.3 21.5

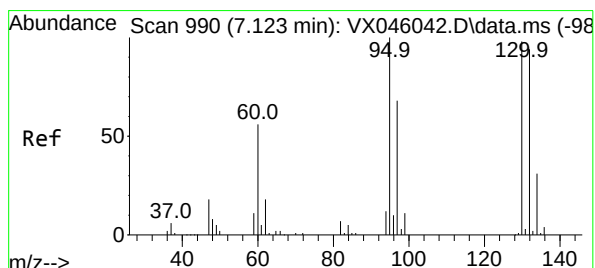
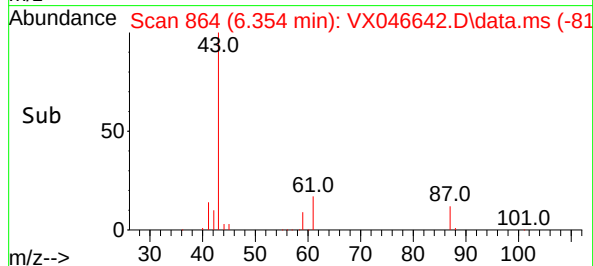
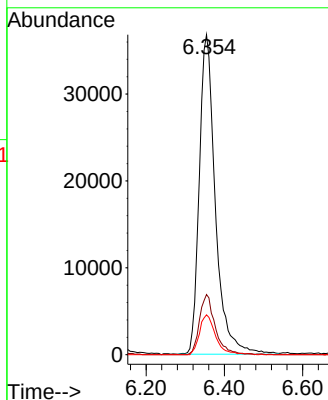
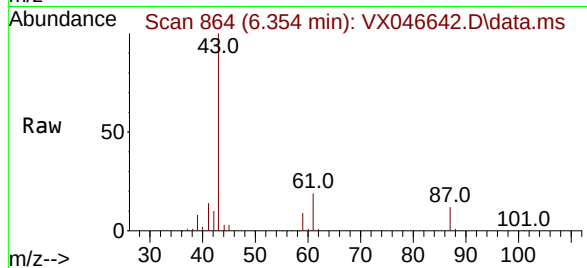
87 12.5 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#44

Trichloroethene

Concen: 49.396 ug/l

RT: 7.135 min Scan# 992

Delta R.T. -0.000 min

Lab File: VX046642.D

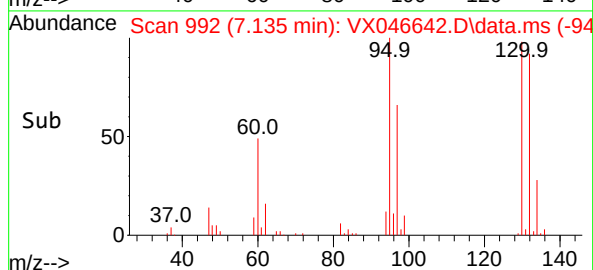
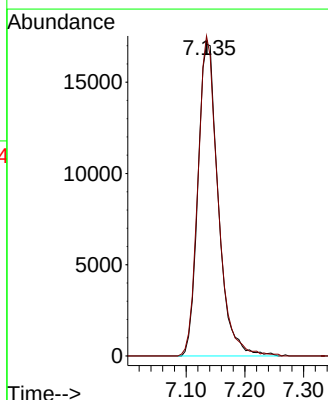
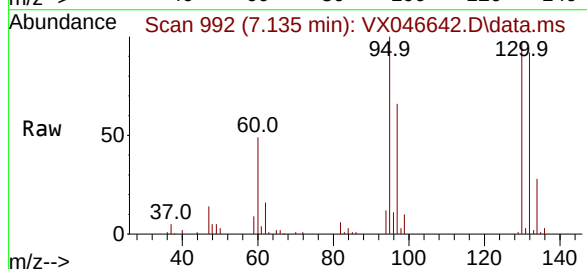
Acq: 11 Jun 2025 17:09

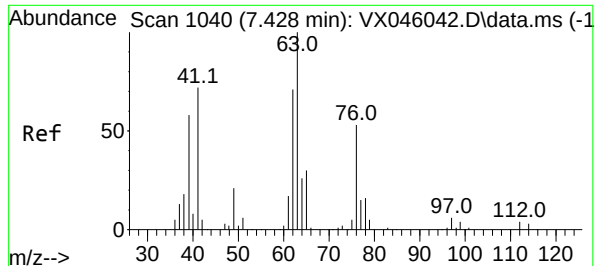
Tgt Ion:130 Resp: 41102

Ion Ratio Lower Upper

130 100

95 102.6 0.0 204.2





#45

1,2-Dichloropropane

Concen: 52.971 ug/l

RT: 7.433 min Scan# 1041

Delta R.T. -0.007 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 63 Resp: 44770

Ion Ratio Lower Upper

63 100

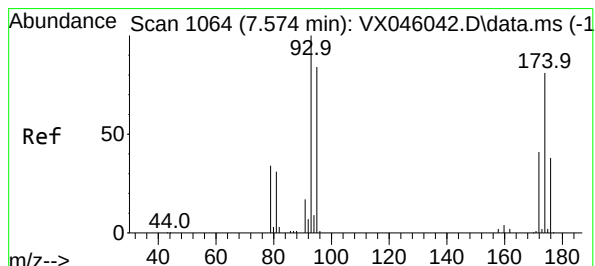
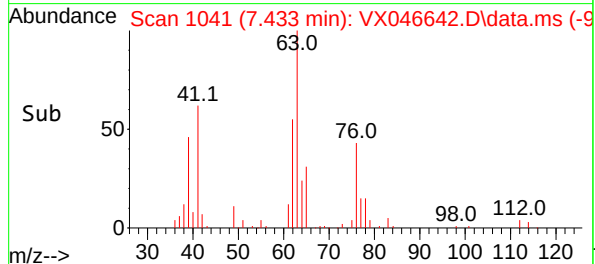
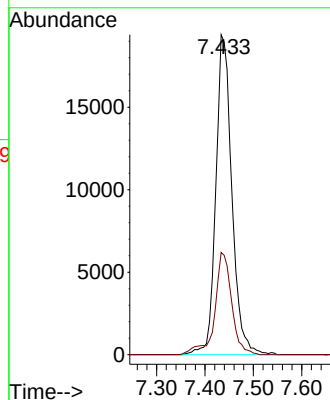
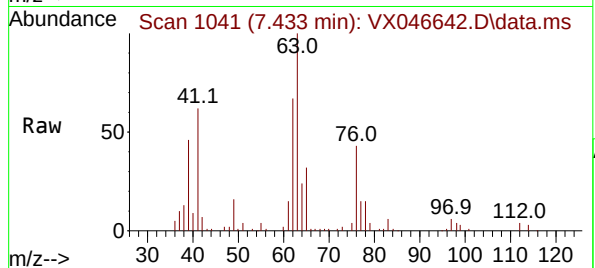
65 31.9 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#46

Dibromomethane

Concen: 50.705 ug/l

RT: 7.592 min Scan# 1067

Delta R.T. 0.006 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

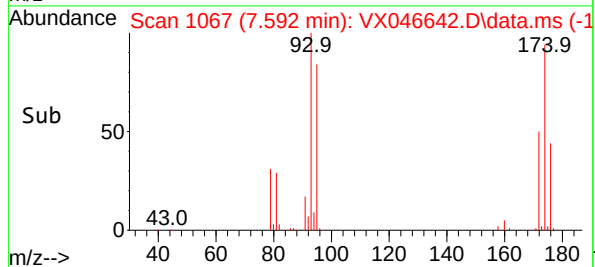
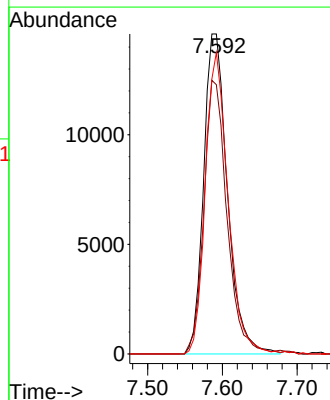
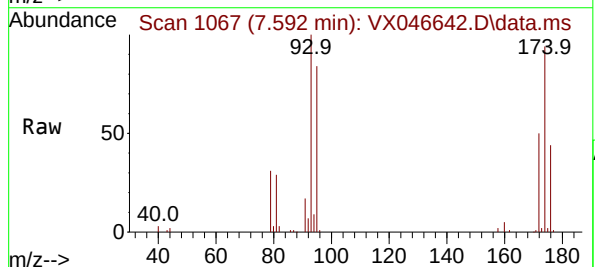
Tgt Ion: 93 Resp: 32244

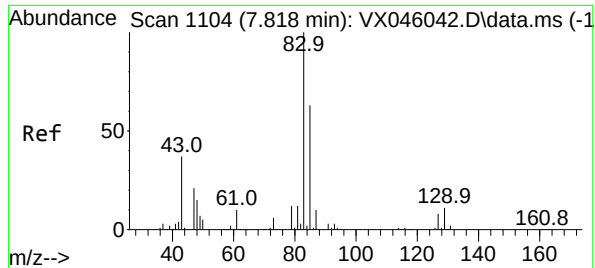
Ion Ratio Lower Upper

93 100

95 83.0 65.6 98.4

174 90.8 68.2 102.2





#47

Bromodichloromethane

Concen: 52.468 ug/l

RT: 7.830 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

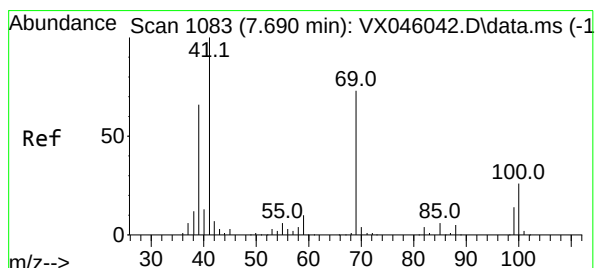
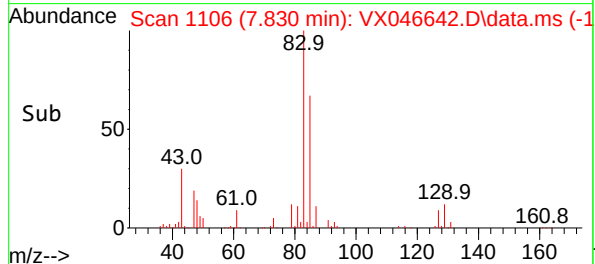
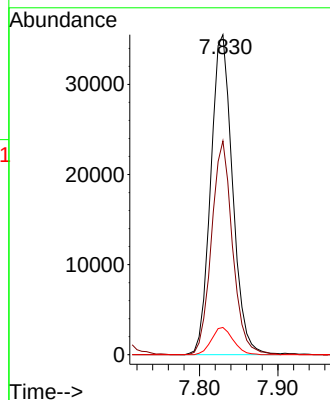
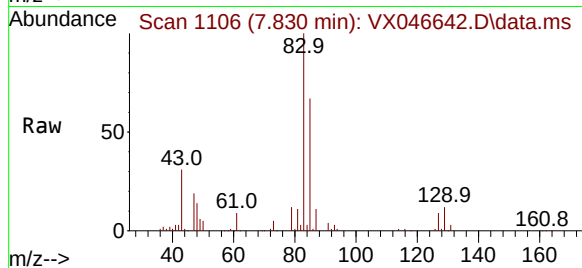
Tgt Ion:	83	Resp:	68604
Ion Ratio	Lower	Upper	
83	100		
85	66.8	50.5	75.7
127	8.5	6.5	9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#48

Methyl methacrylate

Concen: 53.622 ug/l

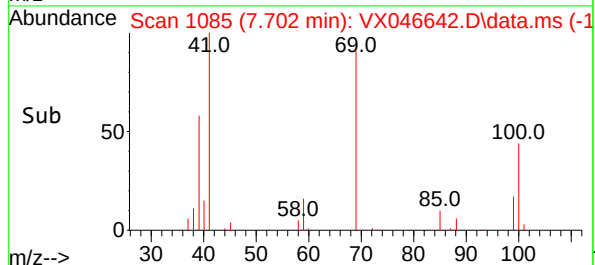
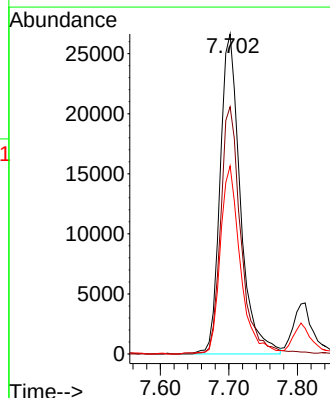
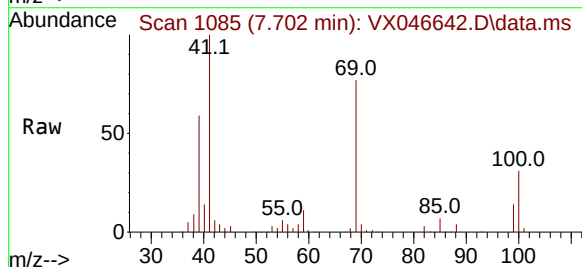
RT: 7.702 min Scan# 1085

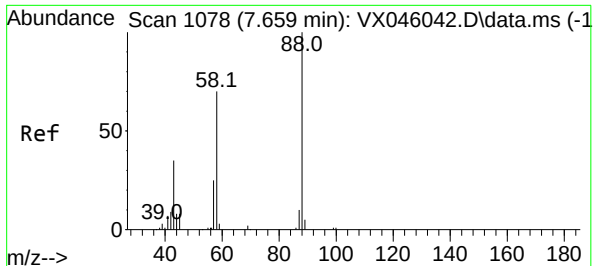
Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Tgt Ion:	41	Resp:	54608
Ion Ratio	Lower	Upper	
41	100		
69	77.3	58.5	87.7
39	58.3	51.7	77.5





#49

1,4-Dioxane

Concen: 1054.293 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. -0.006 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 88 Resp: 14358

Ion Ratio Lower Upper

88 100

43 42.4 33.4 50.2

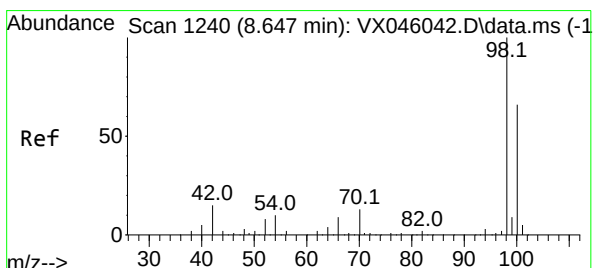
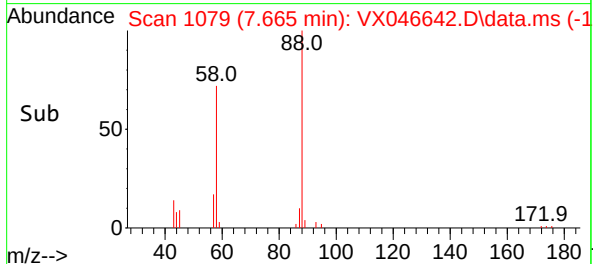
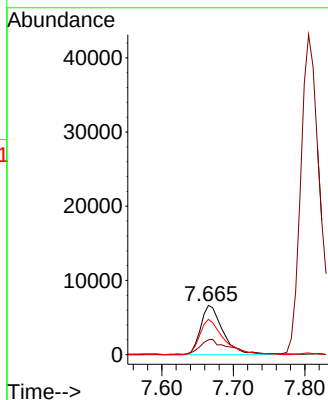
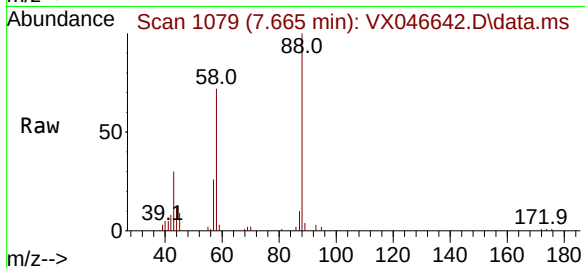
58 76.5 58.6 88.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#50

Toluene-d8

Concen: 50.229 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX046642.D

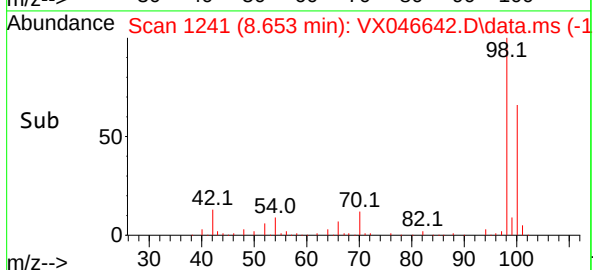
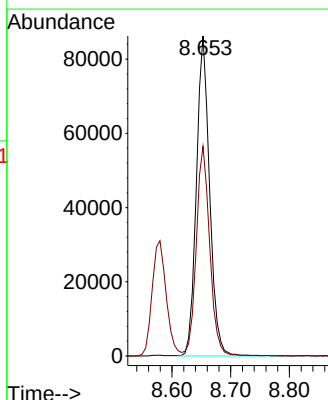
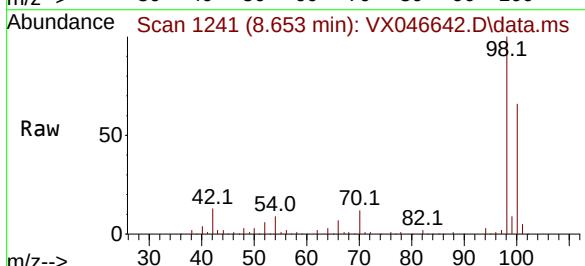
Acq: 11 Jun 2025 17:09

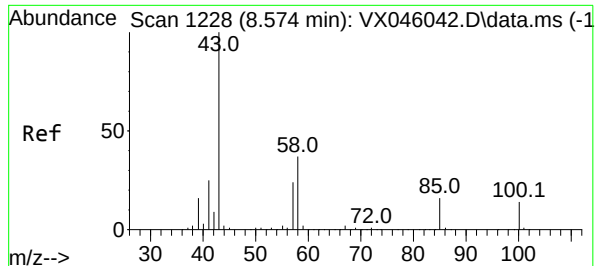
Tgt Ion: 98 Resp: 134862

Ion Ratio Lower Upper

98 100

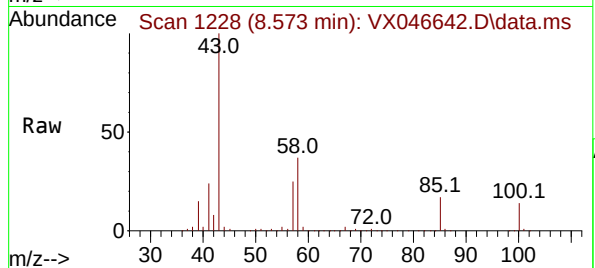
100 66.4 53.5 80.3





#51
4-Methyl-2-Pentanone
Concen: 277.114 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

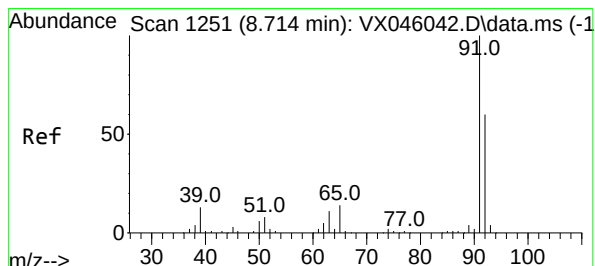
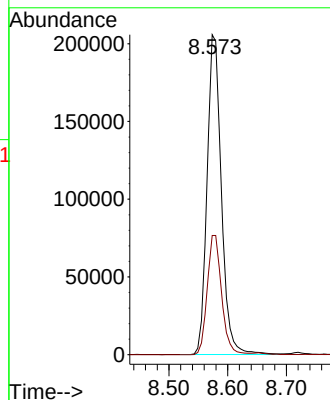
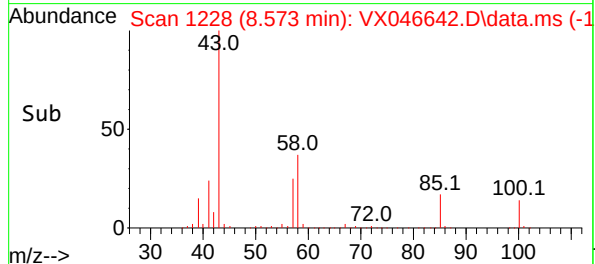
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MSD



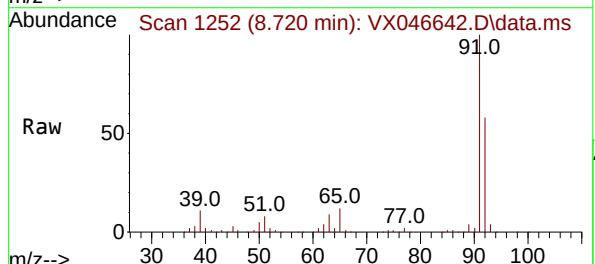
Tgt Ion: 43 Resp: 348549
Ion Ratio Lower Upper
43 100
58 37.4 28.9 43.3

Manual Integrations
APPROVED

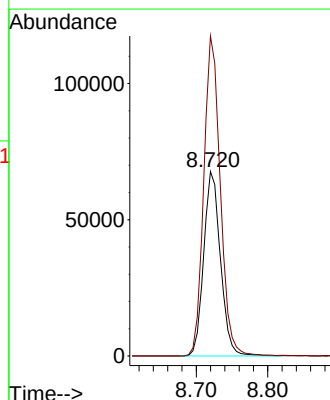
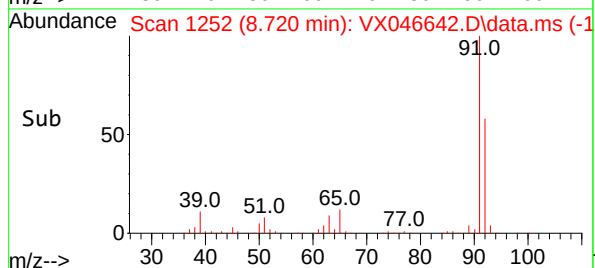
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

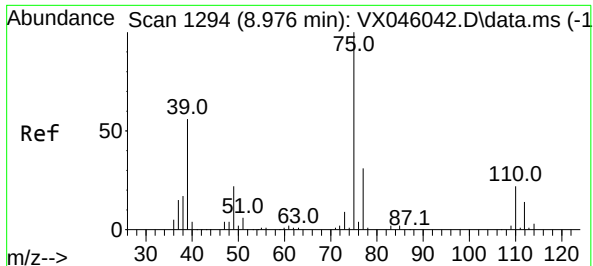


#52
Toluene
Concen: 54.628 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09



Tgt Ion: 92 Resp: 109908
Ion Ratio Lower Upper
92 100
91 171.7 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 54.266 ug/l

RT: 8.982 min Scan# 1195

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 75 Resp: 63618

Ion Ratio Lower Upper

75 100

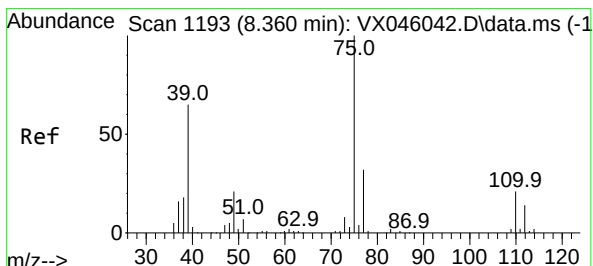
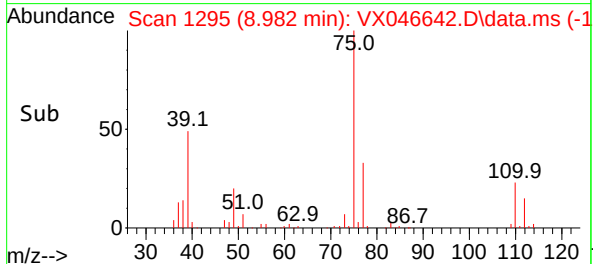
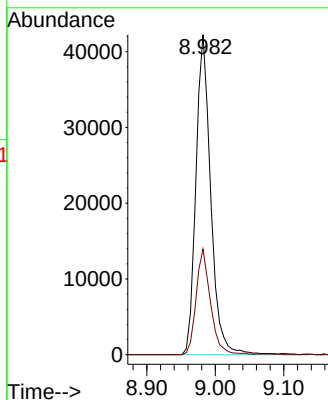
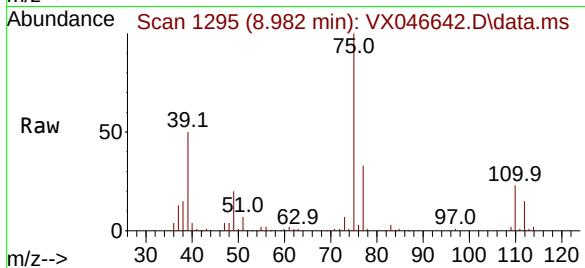
77 33.0 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#54

cis-1,3-Dichloropropene

Concen: 51.914 ug/l

RT: 8.372 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

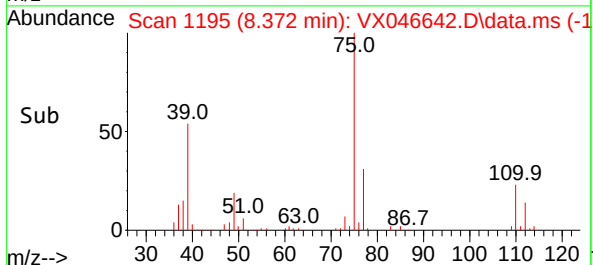
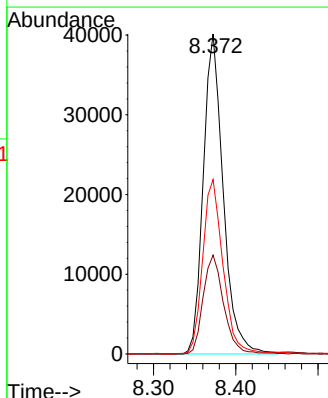
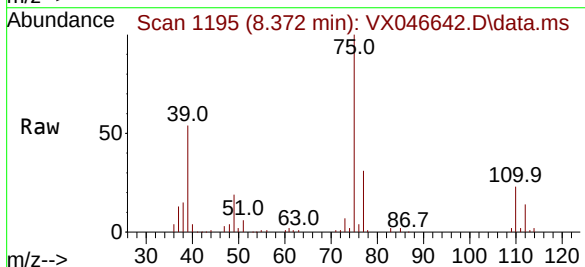
Tgt Ion: 75 Resp: 67669

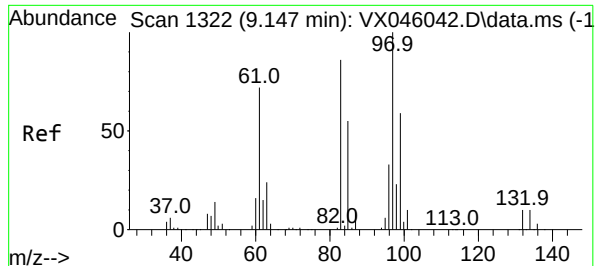
Ion Ratio Lower Upper

75 100

77 30.9 25.4 38.0

39 54.4 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 54.489 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 97 Resp: 44010

Ion Ratio Lower Upper

97 100

83 87.9 69.0 103.6

85 56.3 44.3 66.5

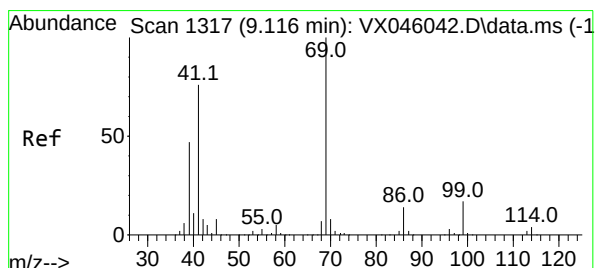
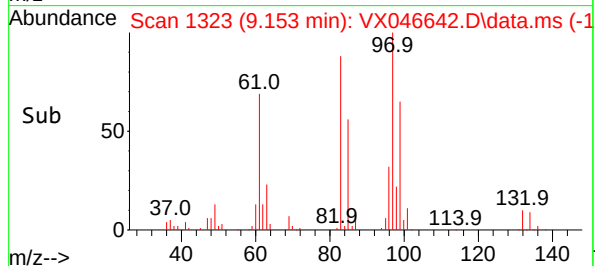
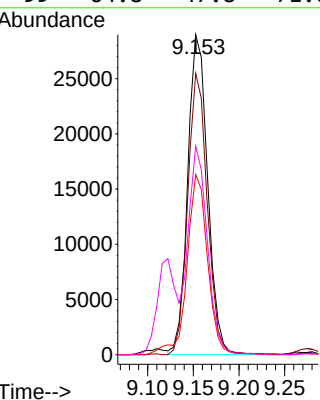
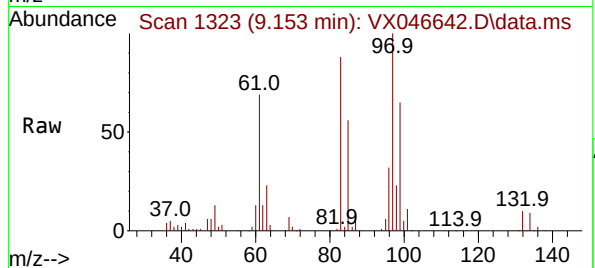
99 64.8 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#56

Ethyl methacrylate

Concen: 57.334 ug/l

RT: 9.122 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

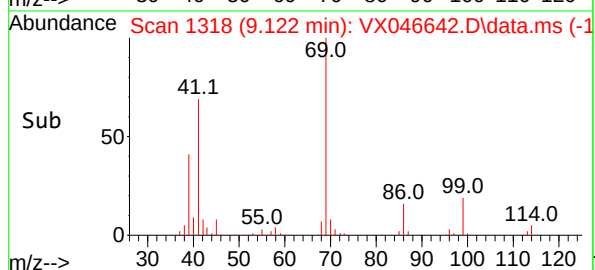
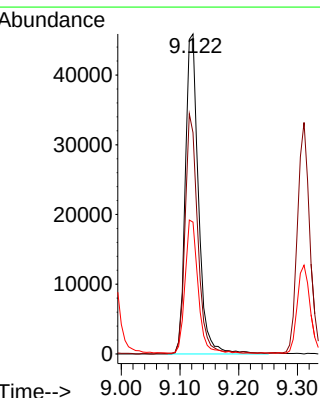
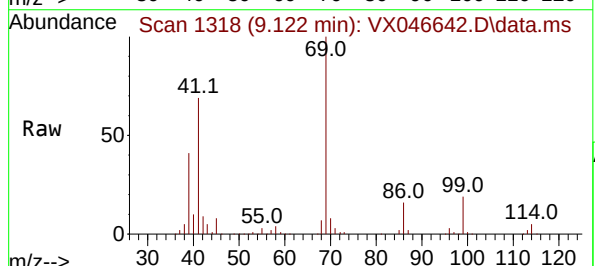
Tgt Ion: 69 Resp: 71261

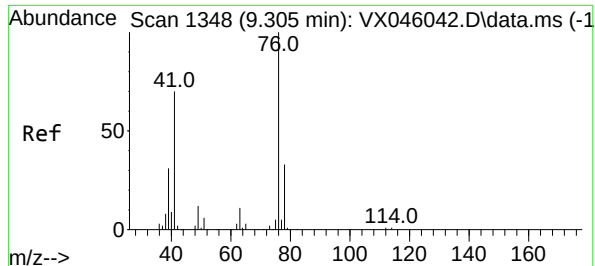
Ion Ratio Lower Upper

69 100

41 72.1 60.8 91.2

39 41.2 39.0 58.6





#57

1,3-Dichloropropane

Concen: 52.612 ug/l

RT: 9.311 min Scan# 1349

Delta R.T. 0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 76 Resp: 7509

Ion Ratio Lower Upper

76 100

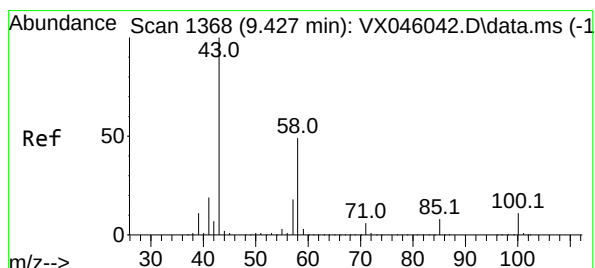
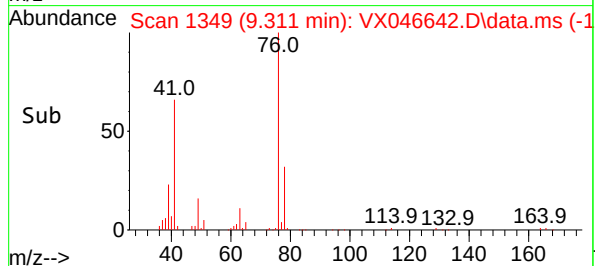
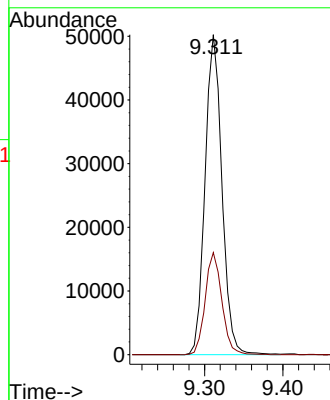
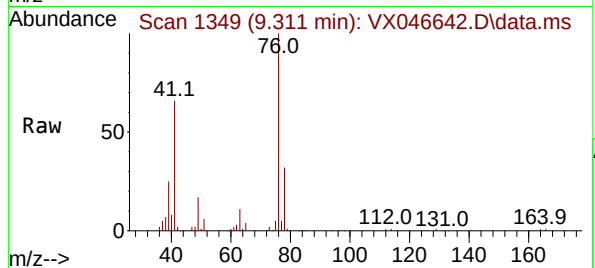
78 31.5 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#59

2-Hexanone

Concen: 280.738 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX046642.D

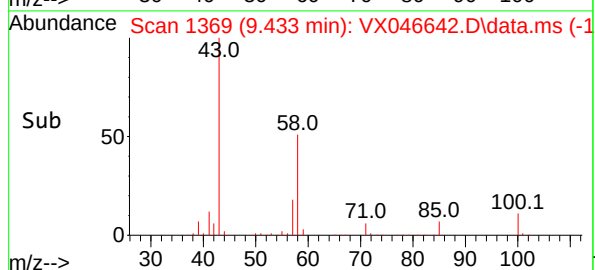
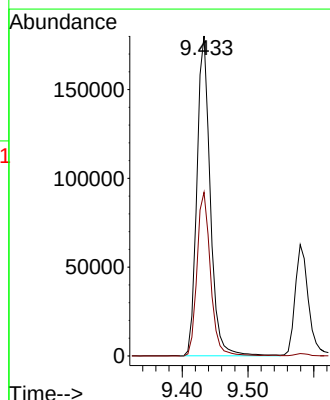
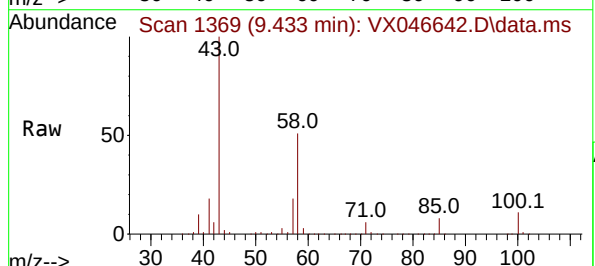
Acq: 11 Jun 2025 17:09

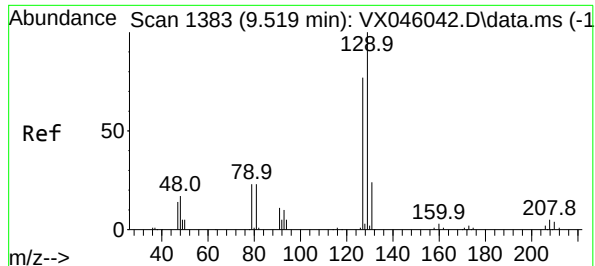
Tgt Ion: 43 Resp: 253244

Ion Ratio Lower Upper

43 100

58 51.9 24.9 74.6





#60

Dibromochloromethane

Concen: 54.603 ug/l

RT: 9.525 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion:129 Resp: 51870

Ion Ratio Lower Upper

129 100

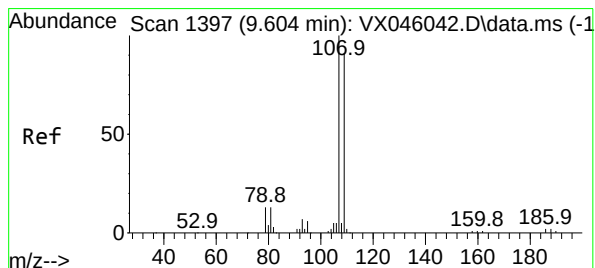
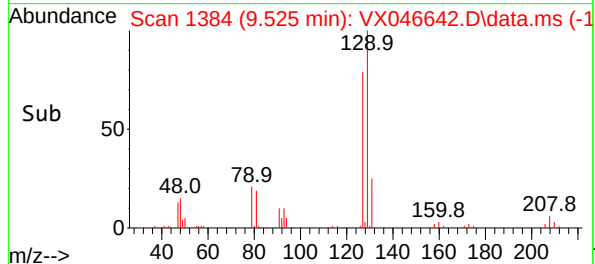
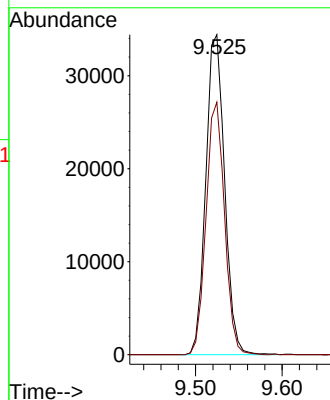
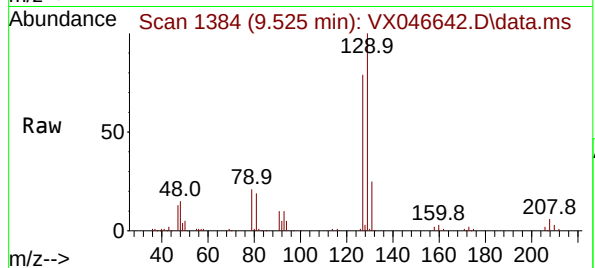
127 77.6 39.3 117.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#61

1,2-Dibromoethane

Concen: 52.585 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. -0.000 min

Lab File: VX046642.D

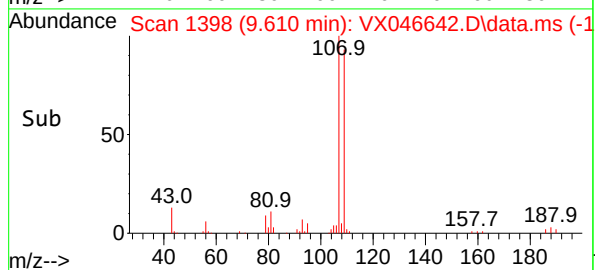
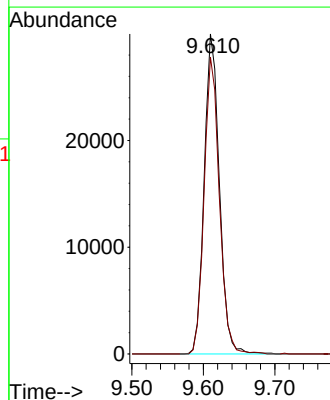
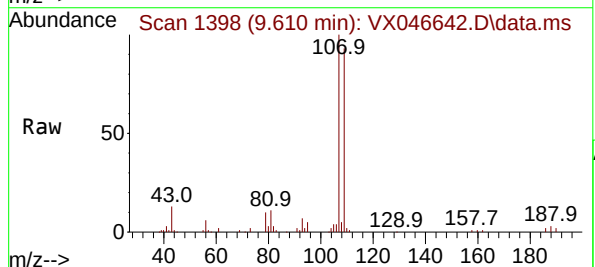
Acq: 11 Jun 2025 17:09

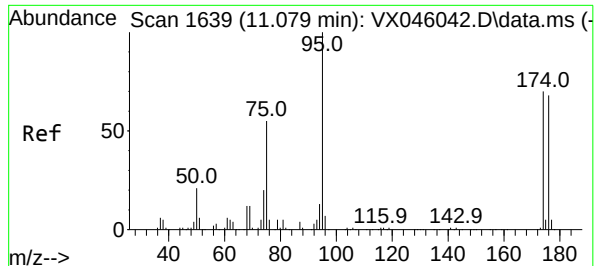
Tgt Ion:107 Resp: 44258

Ion Ratio Lower Upper

107 100

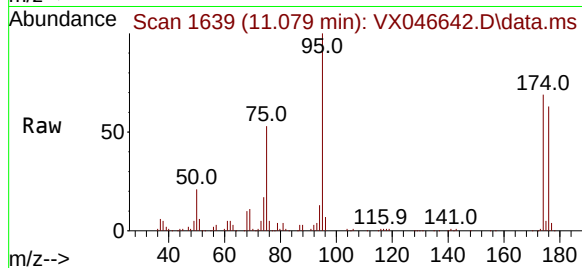
109 93.1 73.3 109.9





#62
4-Bromofluorobenzene
Concen: 51.098 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

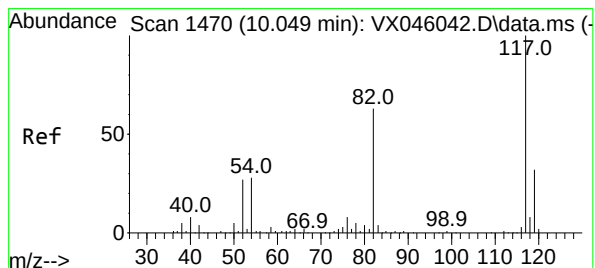
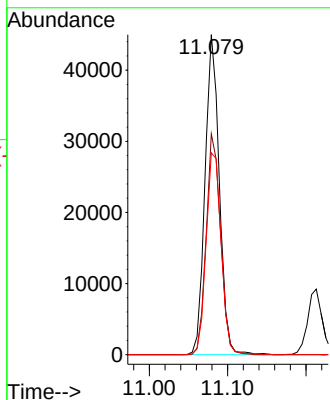
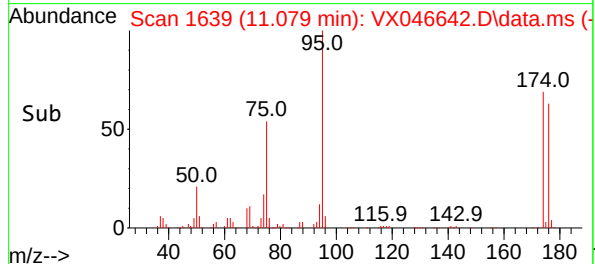
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MSD



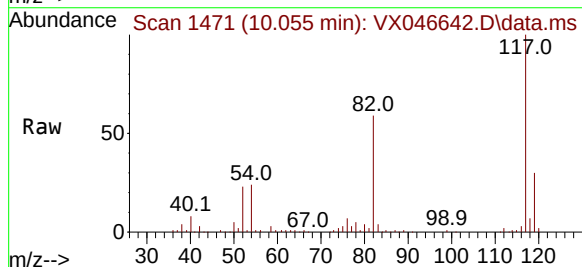
Tgt Ion: 95 Resp: 5676
Ion Ratio Lower Upper
95 100
174 69.5 0.0 135.8
176 66.6 0.0 131.4

Manual Integrations
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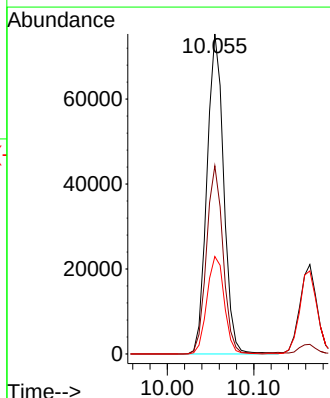
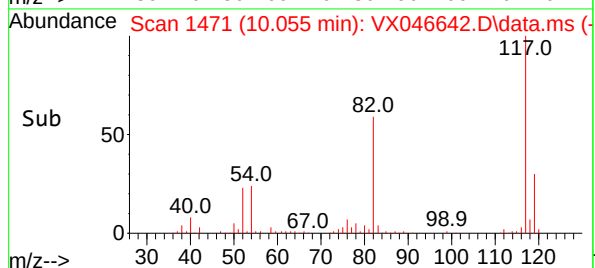
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

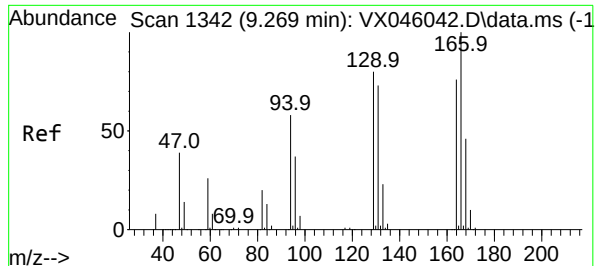


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09



Tgt Ion: 117 Resp: 101042
Ion Ratio Lower Upper
117 100
82 58.8 50.6 76.0
119 30.4 25.8 38.6





#64

Tetrachloroethene

Concen: 47.935 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion:164 Resp: 3238

Ion Ratio Lower Upper

164 100

166 117.8 105.0 157.6

129 95.4 83.5 125.3

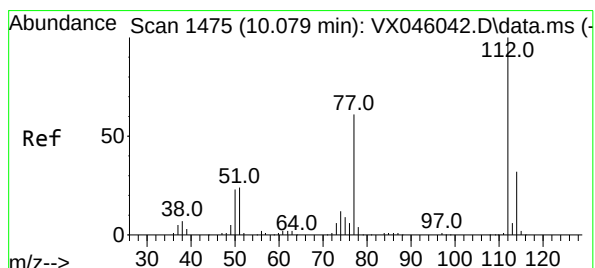
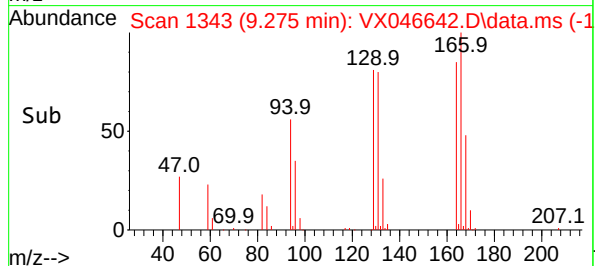
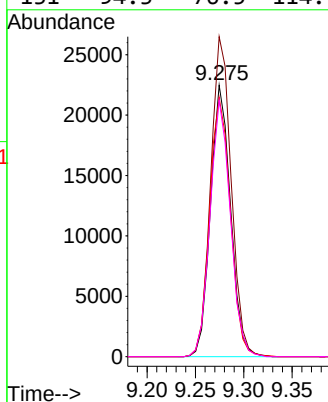
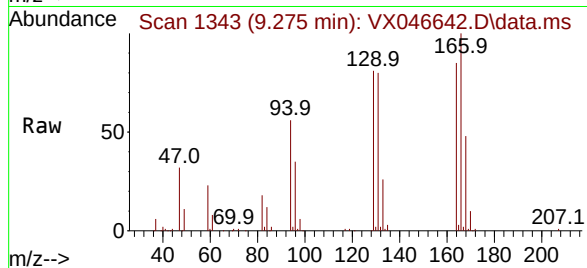
131 94.3 76.5 114.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#65

Chlorobenzene

Concen: 50.041 ug/l

RT: 10.079 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VX046642.D

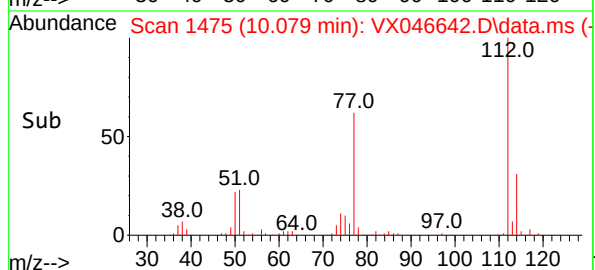
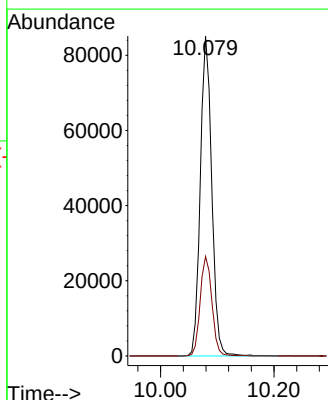
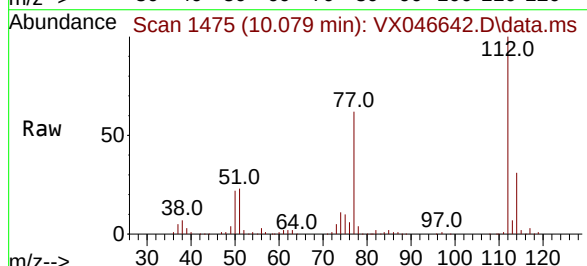
Acq: 11 Jun 2025 17:09

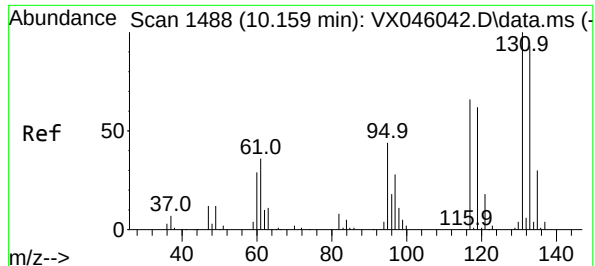
Tgt Ion:112 Resp: 118916

Ion Ratio Lower Upper

112 100

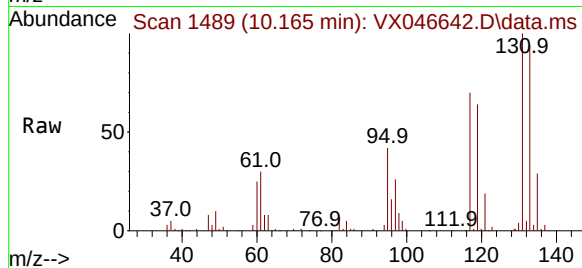
114 31.1 25.4 38.2





#66
1,1,1,2-Tetrachloroethane
Concen: 53.102 ug/l
RT: 10.165 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

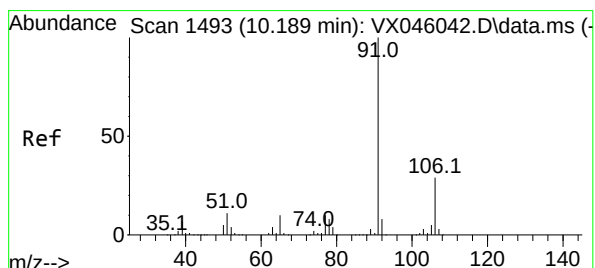
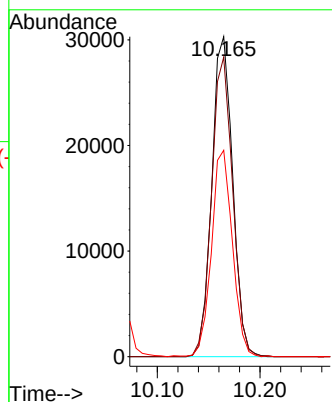
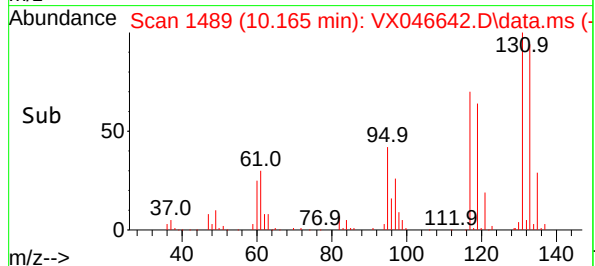
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MSD



Tgt Ion:131 Resp: 4264
Ion Ratio Lower Upper
131 100
133 94.5 47.3 141.9
119 64.9 31.6 95.0

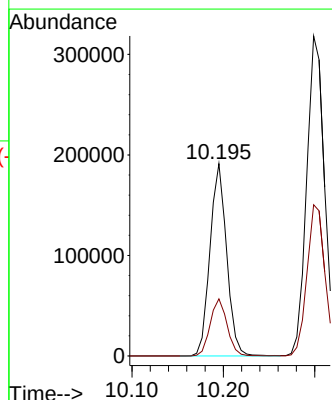
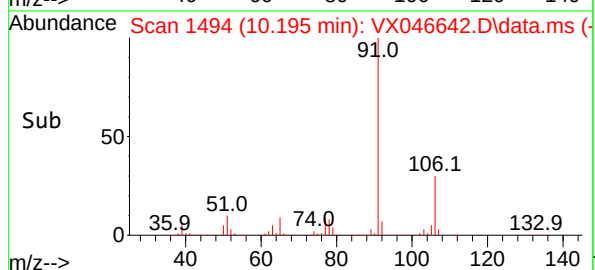
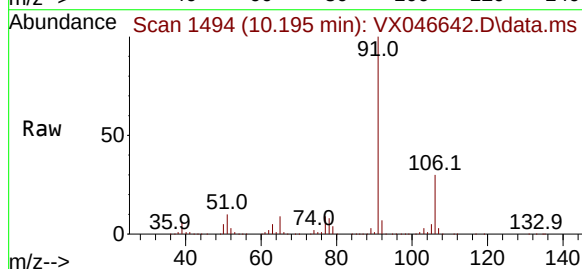
Manual Integrations
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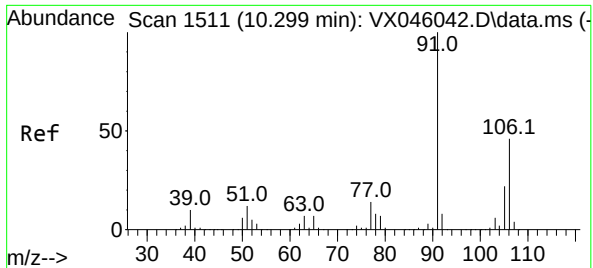
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#67
Ethyl Benzene
Concen: 58.485 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

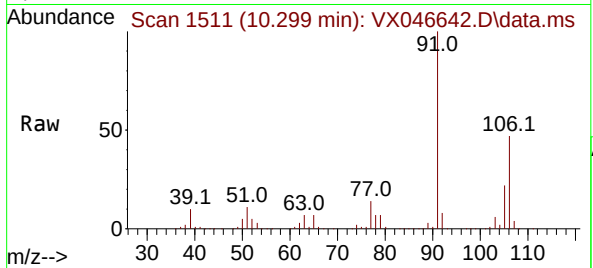
Tgt Ion: 91 Resp: 242631
Ion Ratio Lower Upper
91 100
106 29.7 23.4 35.2





#68
m/p-Xylenes
Concen: 137.203 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

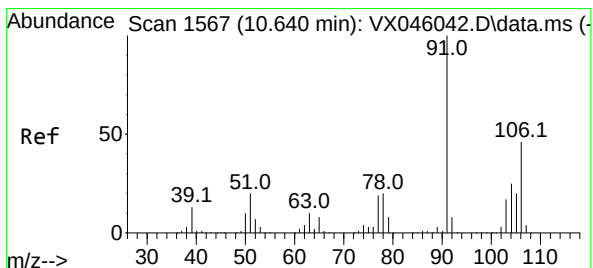
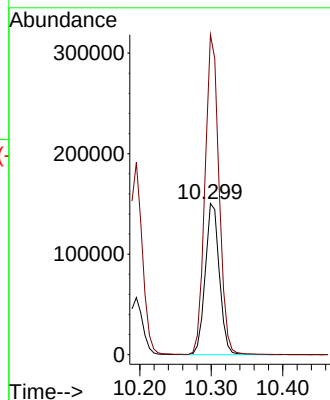
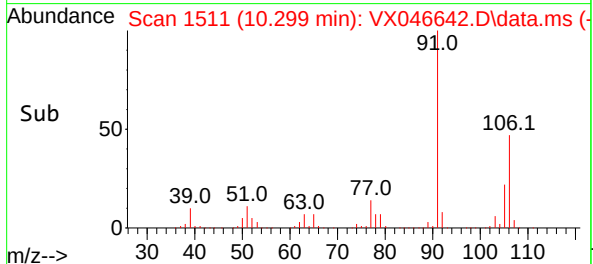
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MSD



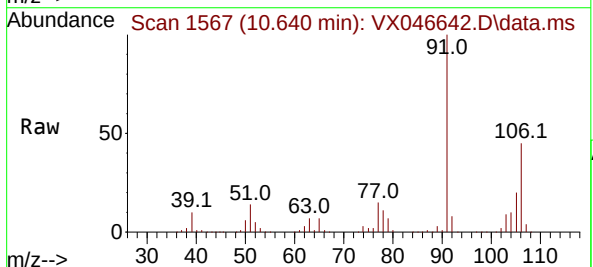
Tgt Ion:106 Resp: 20647
Ion Ratio Lower Upper
106 100
91 210.0 171.2 256.8

Manual Integrations
APPROVED

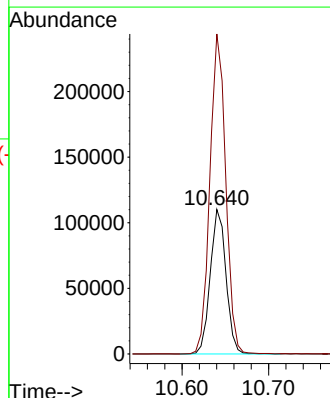
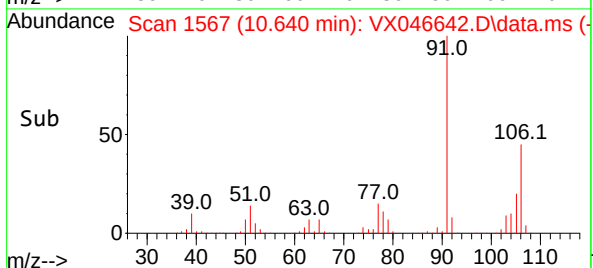
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

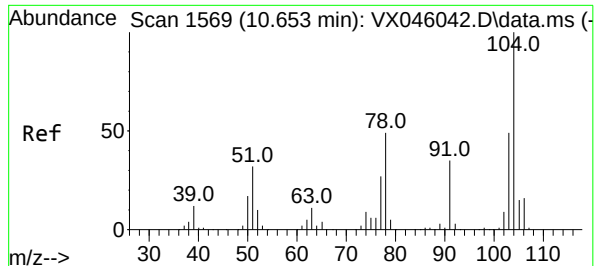


#69
o-Xylene
Concen: 95.500 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09



Tgt Ion:106 Resp: 139010
Ion Ratio Lower Upper
106 100
91 222.7 112.7 338.1





#70

Styrene

Concen: 54.862 ug/l

RT: 10.652 min Scan# 1569

Delta R.T. -0.006 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion:104 Resp: 136700

Ion Ratio Lower Upper

104 100

78 60.0 45.7 68.5

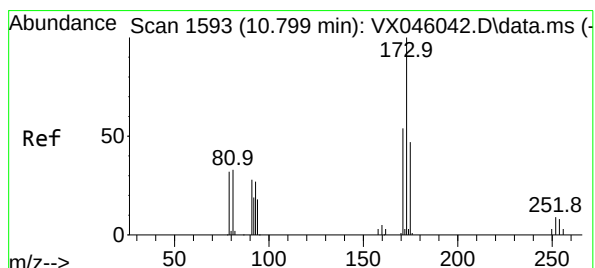
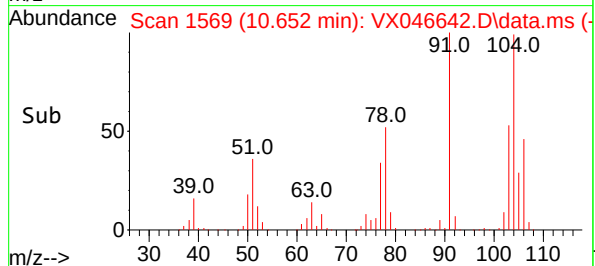
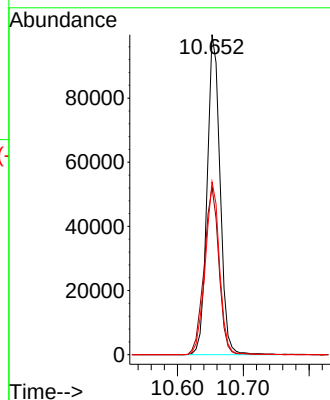
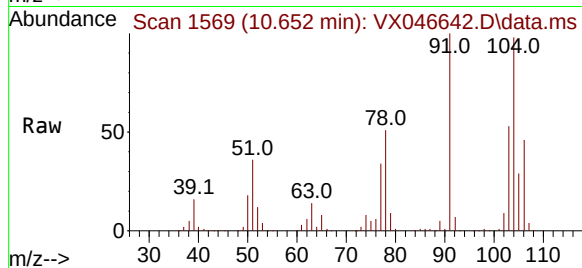
103 59.5 43.7 65.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#71

Bromoform

Concen: 53.683 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

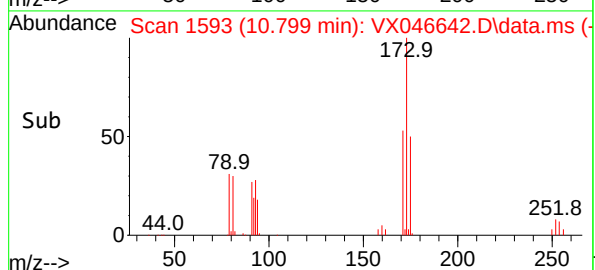
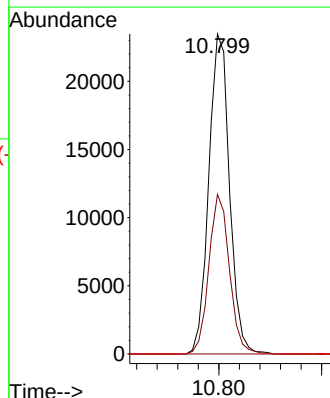
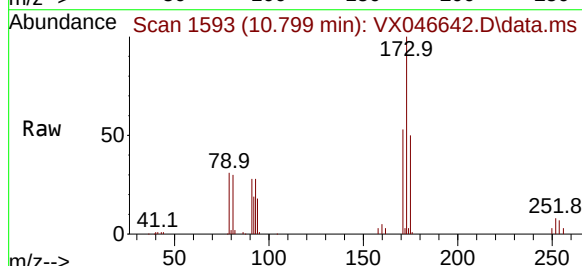
Tgt Ion:173 Resp: 32870

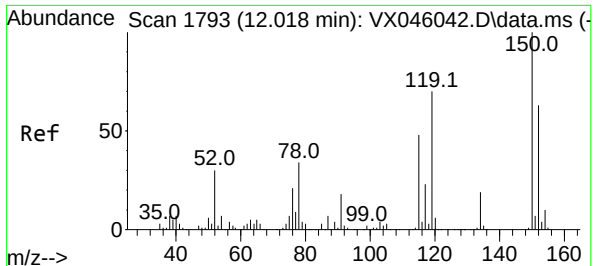
Ion Ratio Lower Upper

173 100

175 49.6 23.4 70.0

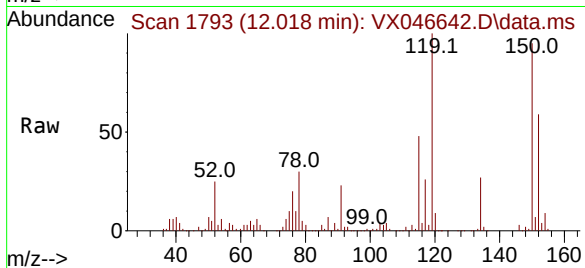
254 0.0 0.0 0.0





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

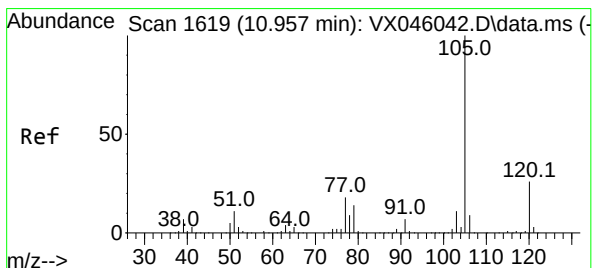
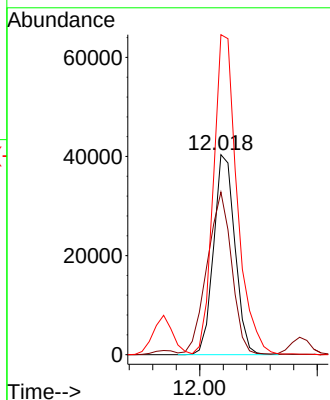
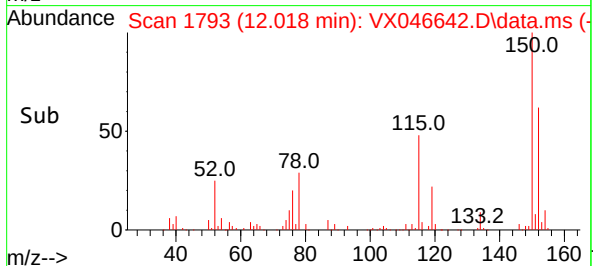
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MSD



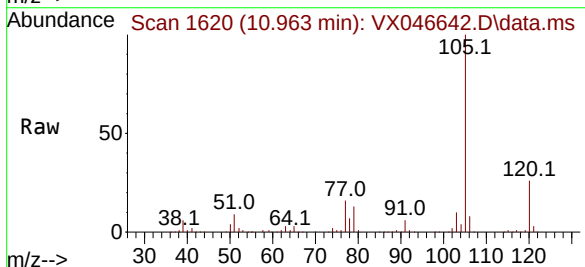
Tgt Ion:152 Resp: 50864
Ion Ratio Lower Upper
152 100
115 94.0 46.9 140.7
150 178.2 0.0 351.0

Manual Integrations
APPROVED

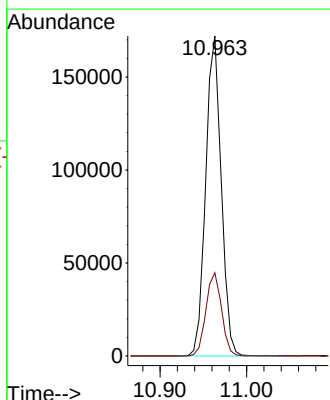
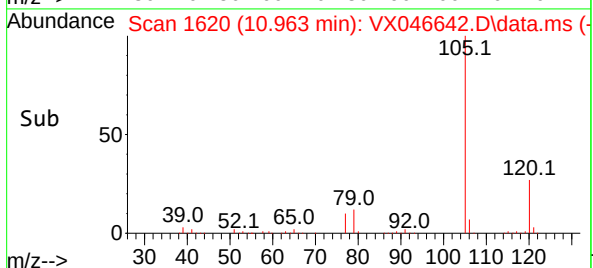
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

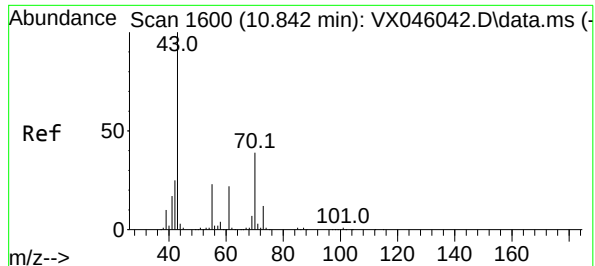


#73
Isopropylbenzene
Concen: 53.529 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09



Tgt Ion:105 Resp: 214031
Ion Ratio Lower Upper
105 100
120 26.2 12.8 38.4





#74

N-amy1 acetate

Concen: 54.336 ug/l

RT: 10.841 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 43 Resp: 95670

Ion Ratio Lower Upper

43 100

70 39.6 30.9 46.3

55 24.0 18.7 28.1

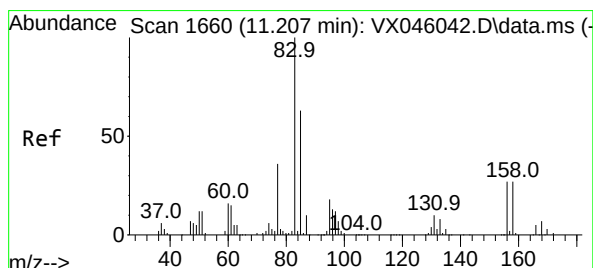
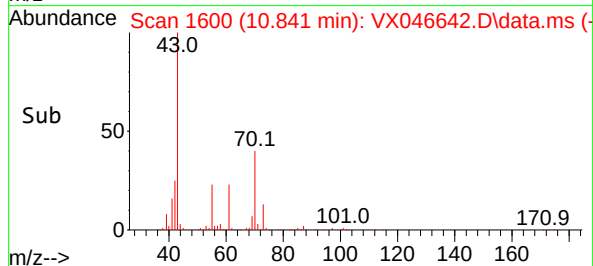
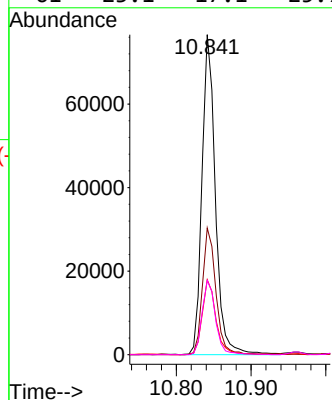
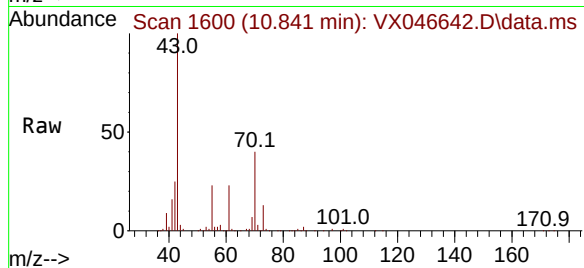
61 23.1 17.1 25.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#75

1,1,2,2-Tetrachloroethane

Concen: 52.977 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. 0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

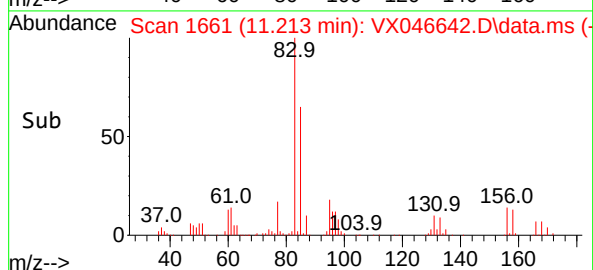
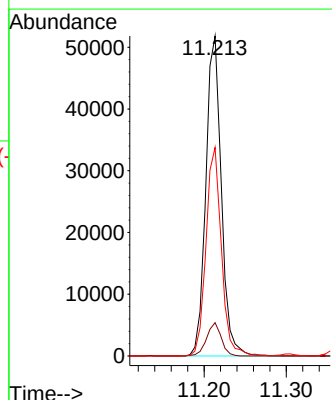
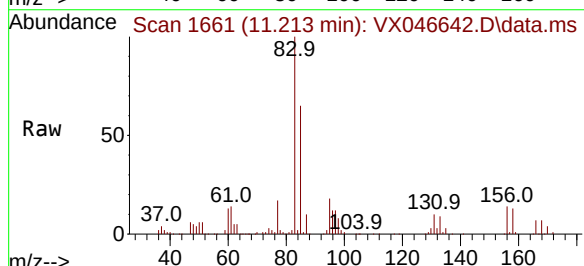
Tgt Ion: 83 Resp: 67802

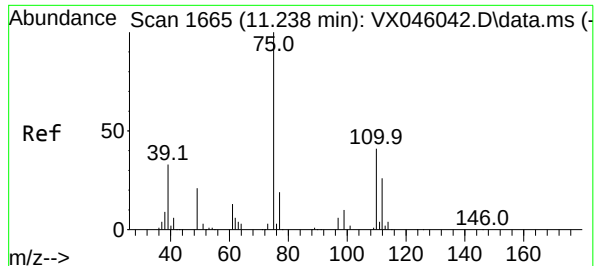
Ion Ratio Lower Upper

83 100

131 9.8 5.0 14.9

85 64.8 31.9 95.7





#76

1,2,3-Trichloropropane

Concen: 51.888 ug/l m

RT: 11.238 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 75 Resp: 5590

Ion Ratio Lower Upper

75 100

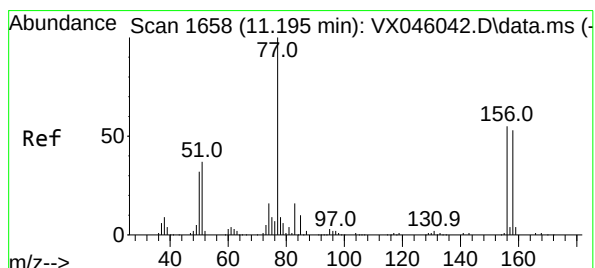
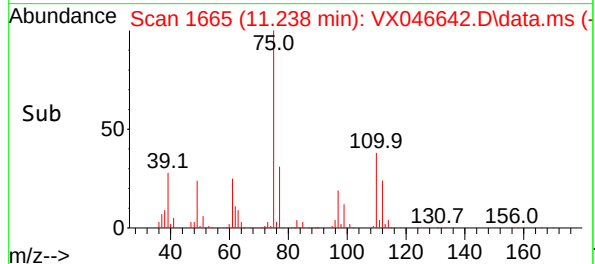
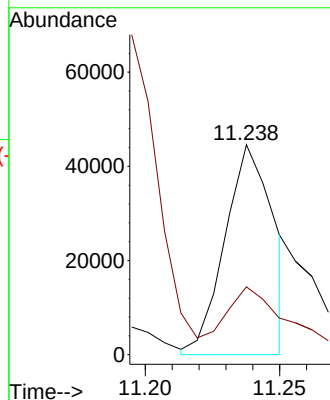
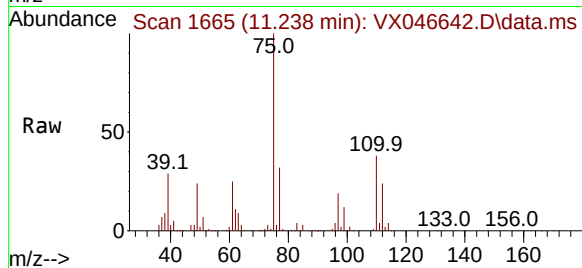
77 42.8 20.5 61.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#77

Bromobenzene

Concen: 52.484 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

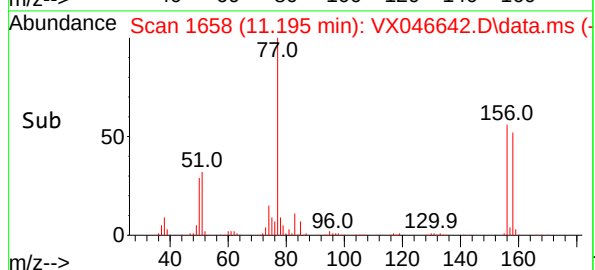
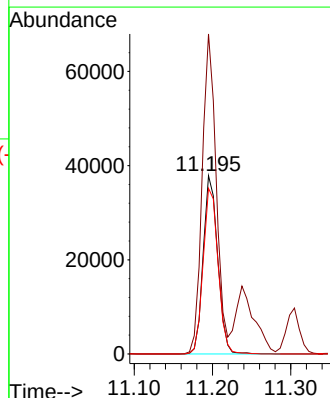
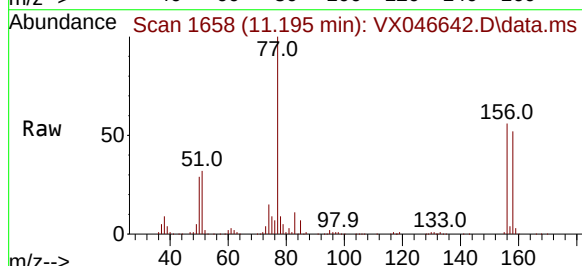
Tgt Ion:156 Resp: 48709

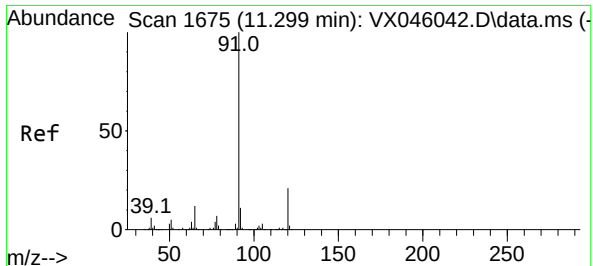
Ion Ratio Lower Upper

156 100

77 173.8 92.8 278.3

158 95.6 48.8 146.3





#78

n-propylbenzene

Concen: 55.230 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion: 91 Resp: 267280

Ion Ratio Lower Upper

91 100

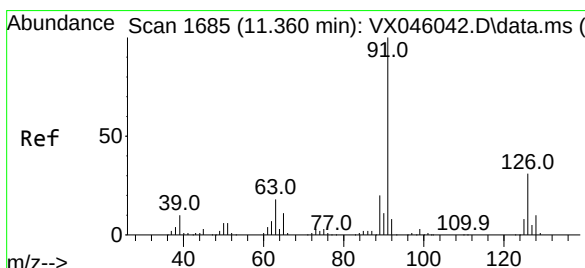
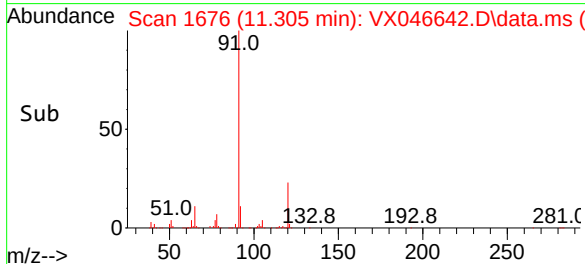
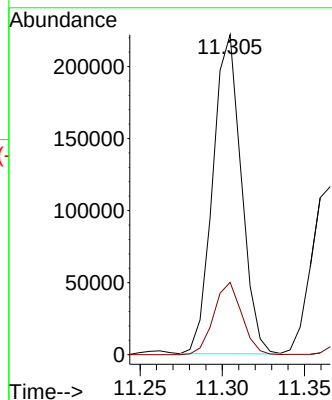
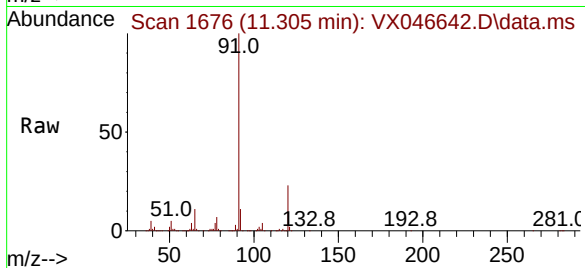
120 22.4 10.8 32.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#79

2-Chlorotoluene

Concen: 55.320 ug/l

RT: 11.366 min Scan# 1686

Delta R.T. -0.000 min

Lab File: VX046642.D

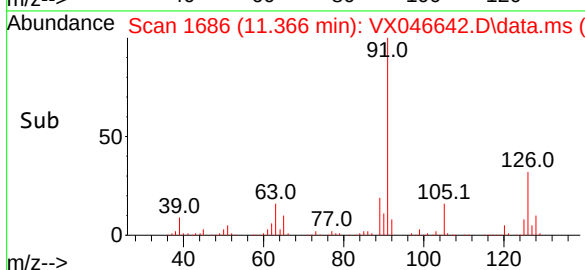
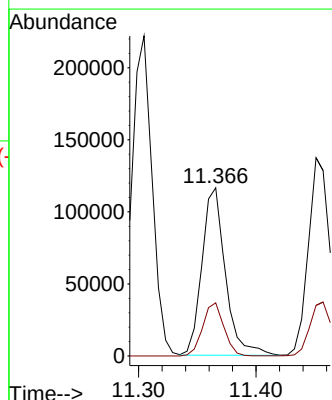
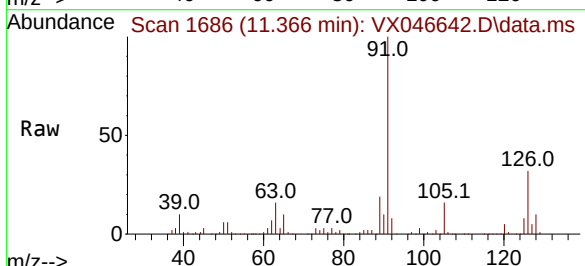
Acq: 11 Jun 2025 17:09

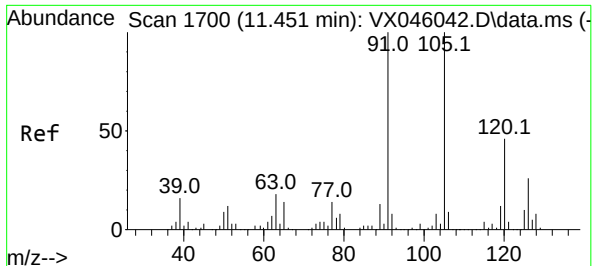
Tgt Ion: 91 Resp: 161444

Ion Ratio Lower Upper

91 100

126 28.7 15.6 46.7





#80

1,3,5-Trimethylbenzene

Concen: 66.772 ug/l

RT: 11.451 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion:105 Resp: 22247

Ion Ratio Lower Upper

105 100

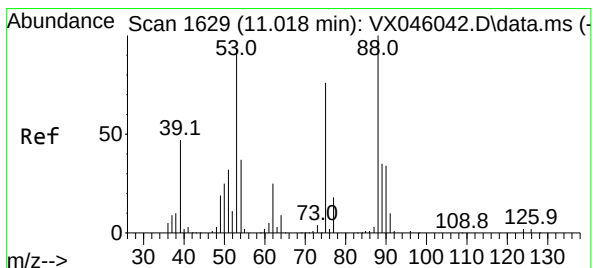
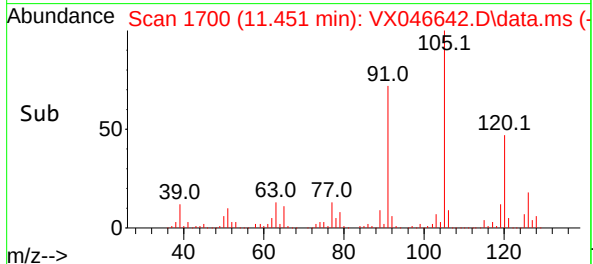
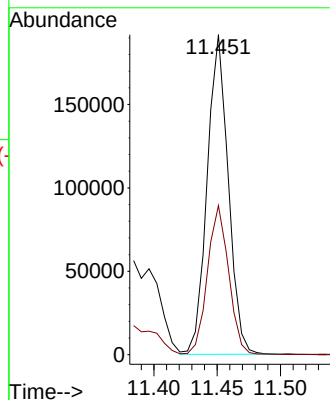
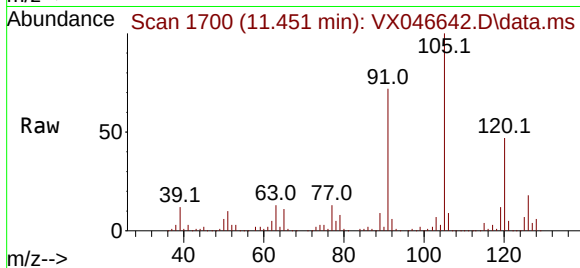
120 47.1 23.1 69.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#81

trans-1,4-Dichloro-2-butene

Concen: 53.014 ug/l

RT: 11.018 min Scan# 1629

Delta R.T. 0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

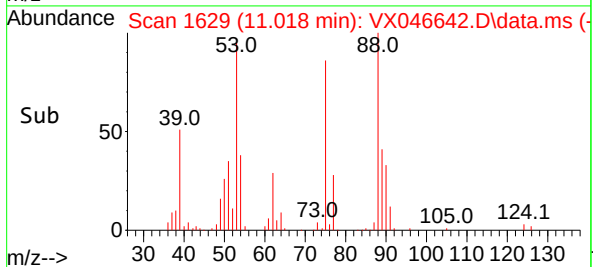
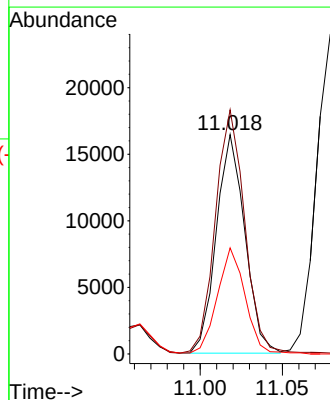
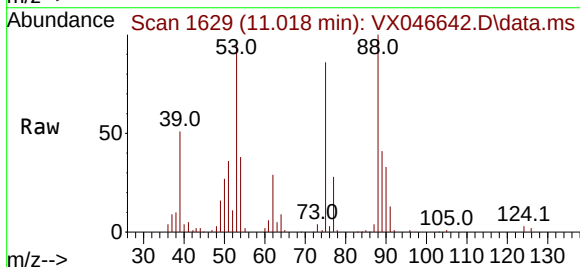
Tgt Ion: 75 Resp: 19800

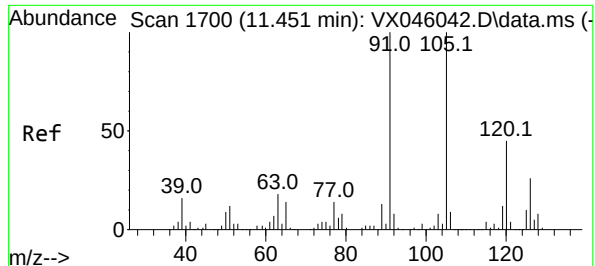
Ion Ratio Lower Upper

75 100

53 115.6 100.5 150.7

89 47.6 37.0 55.6





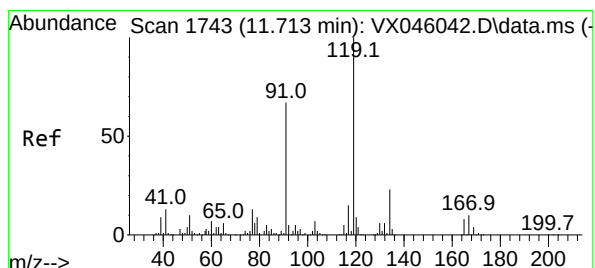
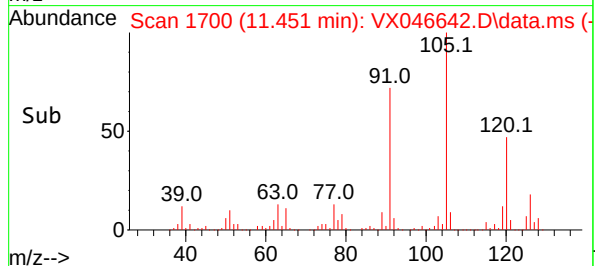
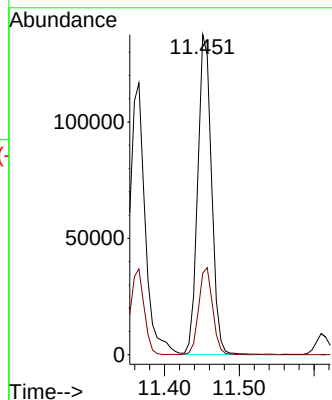
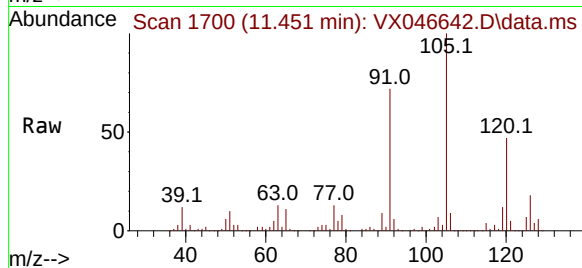
#82
4-Chlorotoluene
Concen: 50.859 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MSD

Tgt Ion: 91 Resp: 175929
Ion Ratio Lower Upper
91 100
126 27.5 13.3 39.8

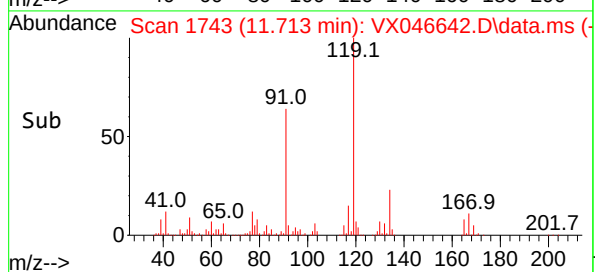
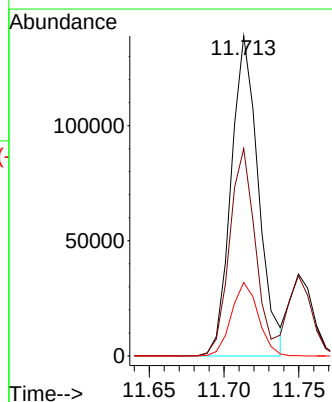
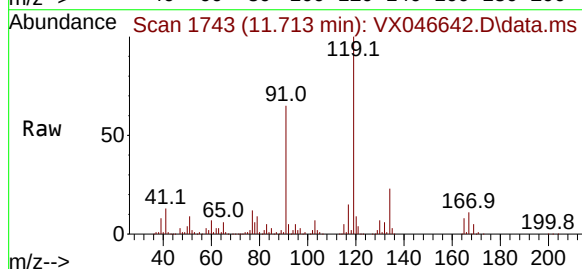
Manual Integrations
APPROVED

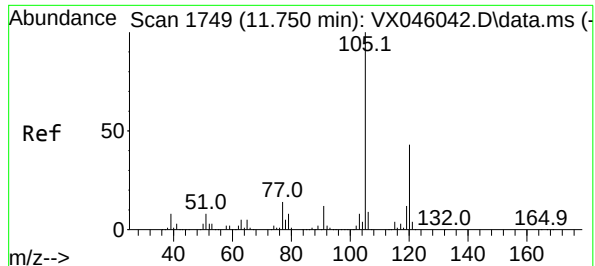
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#83
tert-Butylbenzene
Concen: 52.104 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

Tgt Ion:119 Resp: 176725
Ion Ratio Lower Upper
119 100
91 60.5 32.9 98.7
134 22.6 11.4 34.1





#84

1,2,4-Trimethylbenzene

Concen: 107.026 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion:105 Resp: 360749

Ion Ratio Lower Upper

105 100

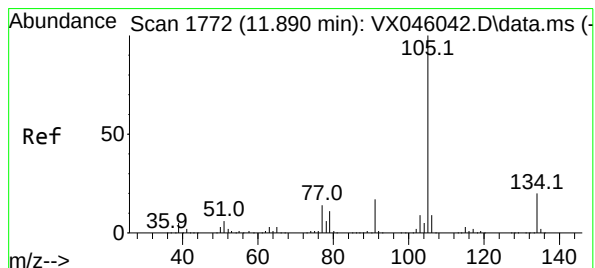
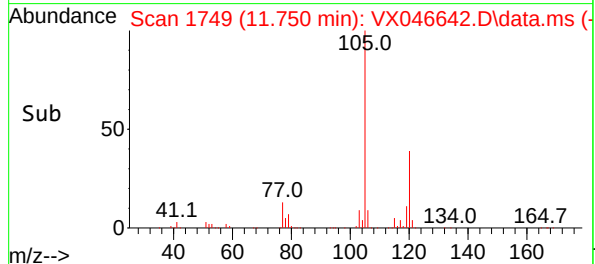
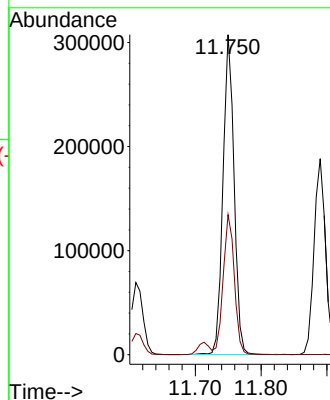
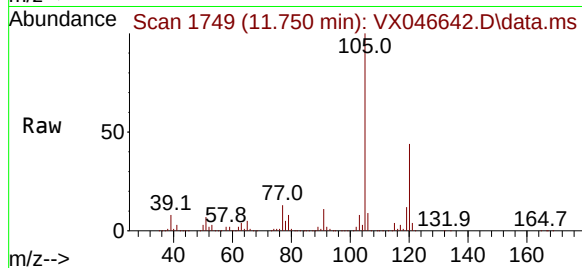
120 44.1 21.2 63.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#85

sec-Butylbenzene

Concen: 52.042 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX046642.D

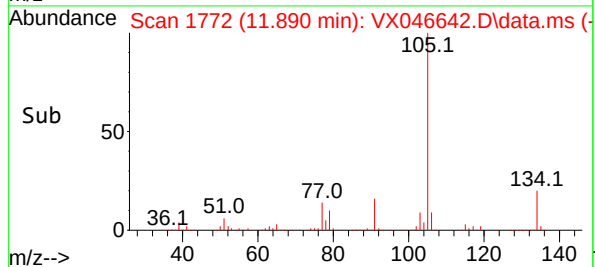
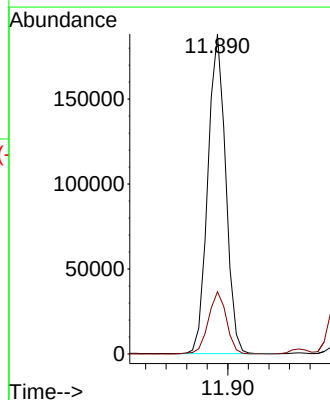
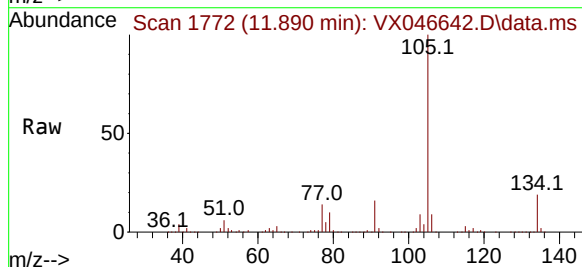
Acq: 11 Jun 2025 17:09

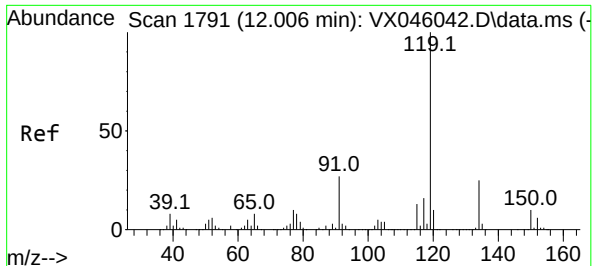
Tgt Ion:105 Resp: 226809

Ion Ratio Lower Upper

105 100

134 19.8 9.7 29.1





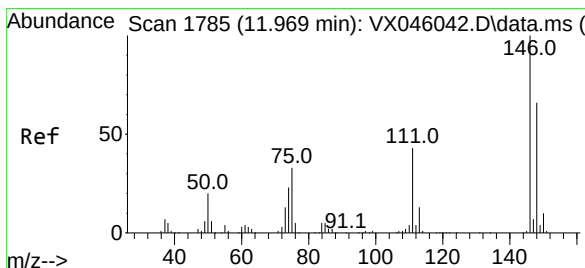
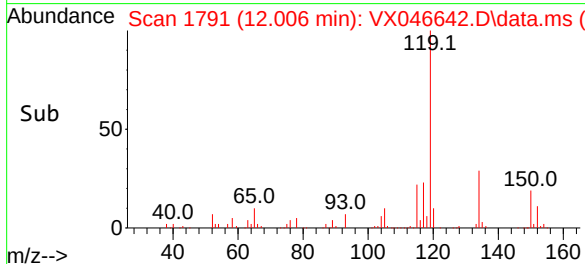
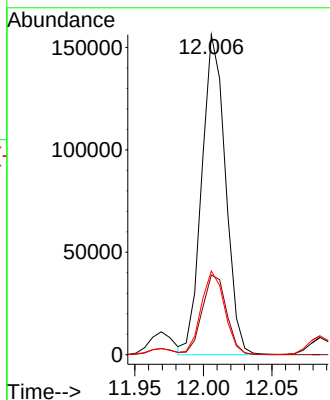
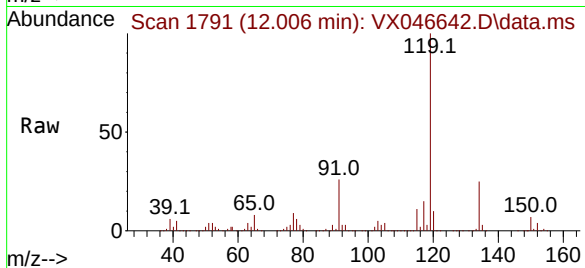
#86
p-Isopropyltoluene
Concen: 51.808 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MSD

Tgt Ion:119 Resp: 18823
Ion Ratio Lower Upper
119 100
134 25.5 12.5 37.5
91 26.0 13.8 41.4

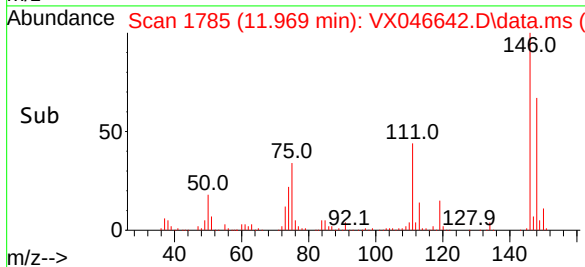
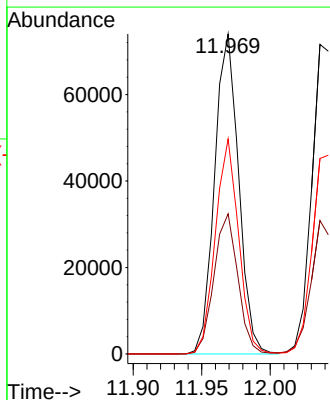
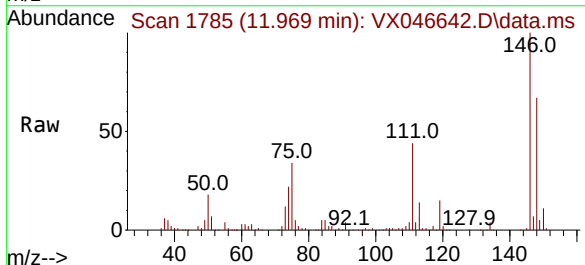
Manual Integrations
APPROVED

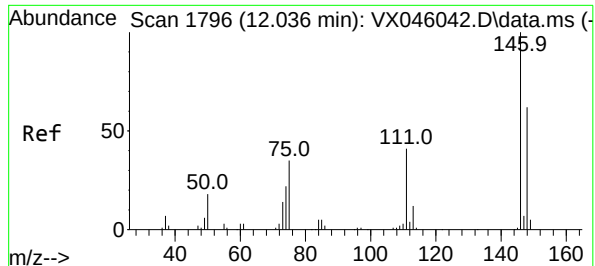
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#87
1,3-Dichlorobenzene
Concen: 50.085 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

Tgt Ion:146 Resp: 90262
Ion Ratio Lower Upper
146 100
111 43.6 22.1 66.3
148 65.1 32.1 96.5





#88

1,4-Dichlorobenzene

Concen: 49.822 ug/l

RT: 12.036 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion:146 Resp: 93039

Ion Ratio Lower Upper

146 100

111 41.4 21.3 63.9

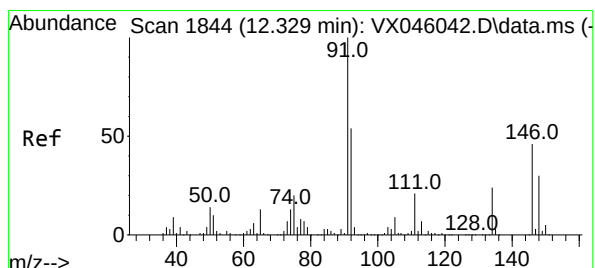
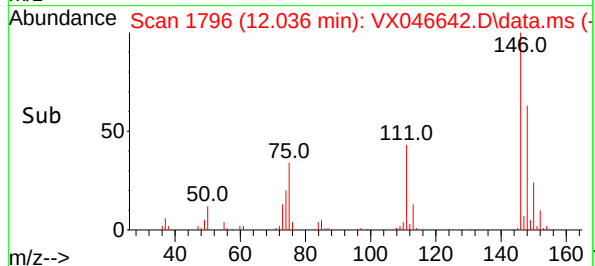
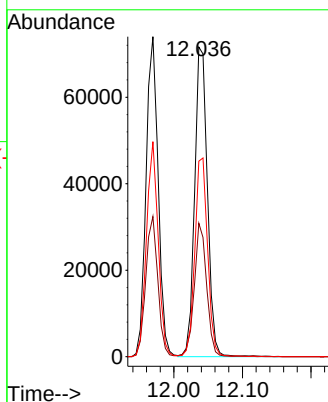
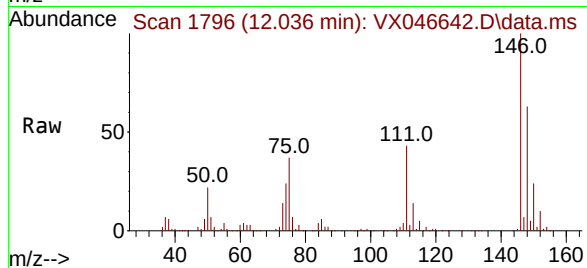
148 64.4 31.9 95.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#89

n-Butylbenzene

Concen: 53.528 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

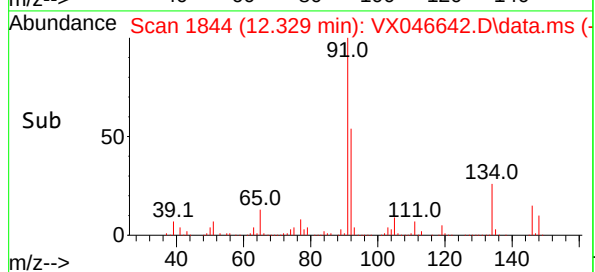
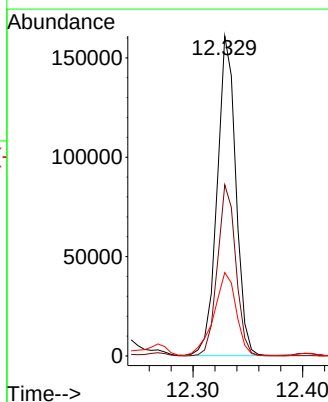
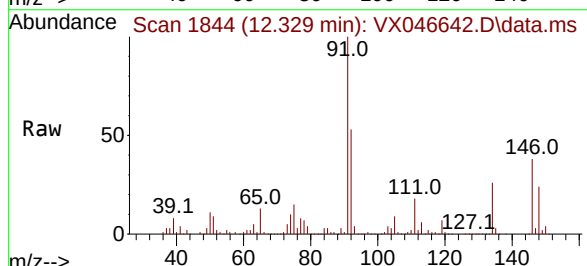
Tgt Ion: 91 Resp: 190986

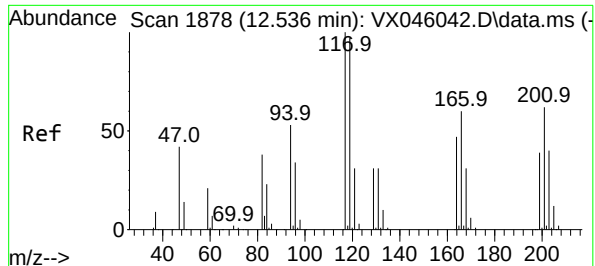
Ion Ratio Lower Upper

91 100

92 52.7 26.9 80.7

134 31.3 11.8 35.3





#90

Hexachloroethane

Concen: 54.828 ug/l

RT: 12.536 min Scan# 117

Delta R.T. 0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion:117 Resp: 35400

Ion Ratio Lower Upper

117 100

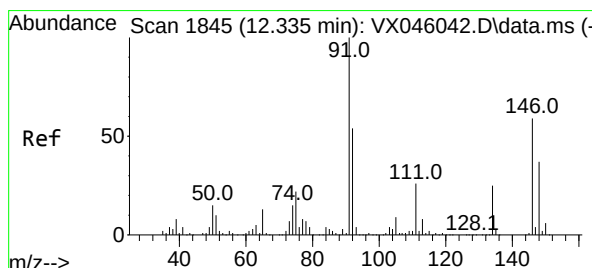
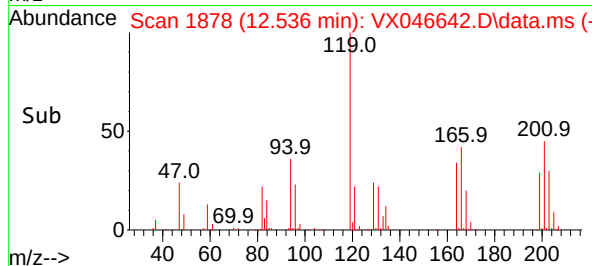
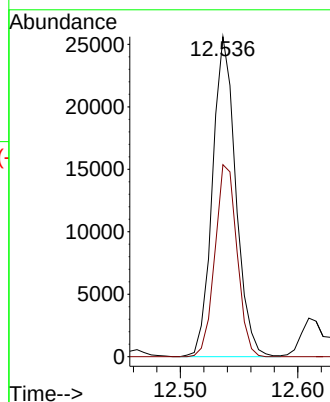
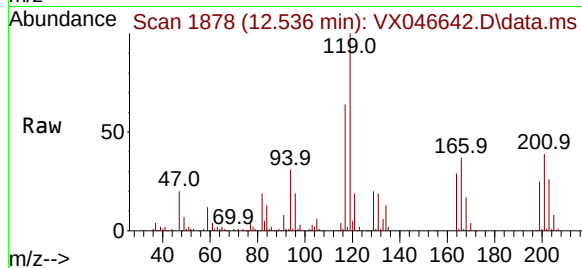
201 56.7 31.6 94.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#91

1,2-Dichlorobenzene

Concen: 51.533 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

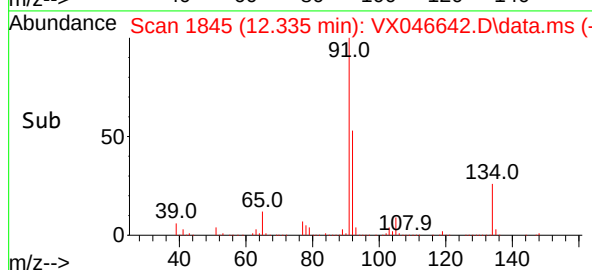
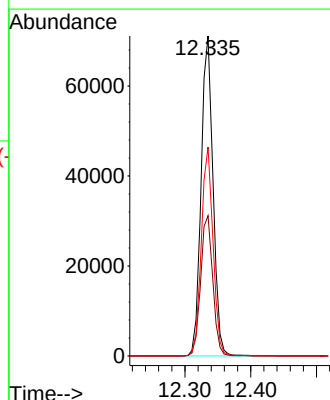
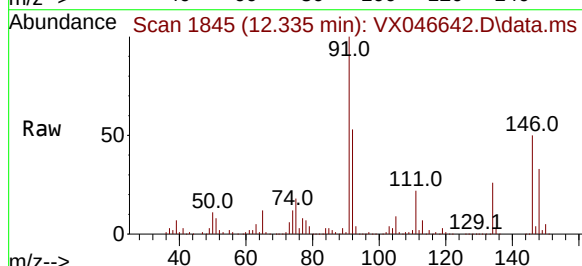
Tgt Ion:146 Resp: 89646

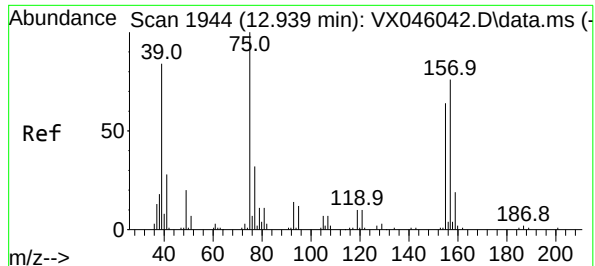
Ion Ratio Lower Upper

146 100

111 44.4 22.4 67.3

148 64.2 31.6 94.8





#92

1,2-Dibromo-3-Chloropropane

Concen: 54.164 ug/l

RT: 12.939 min Scan# 1944

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

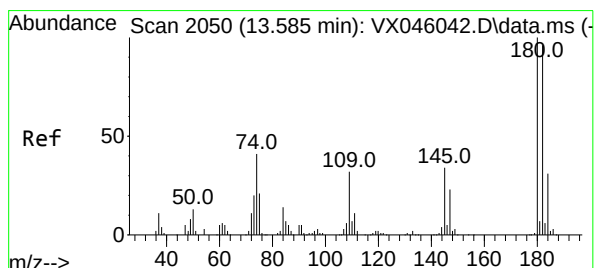
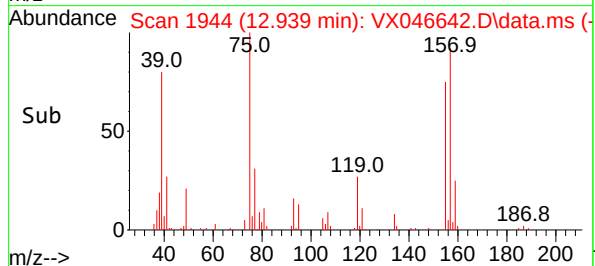
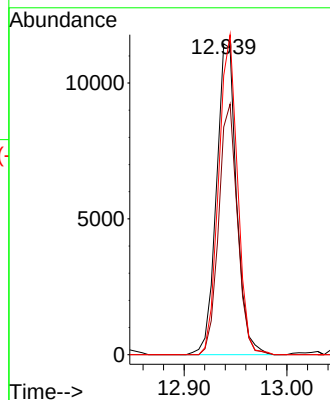
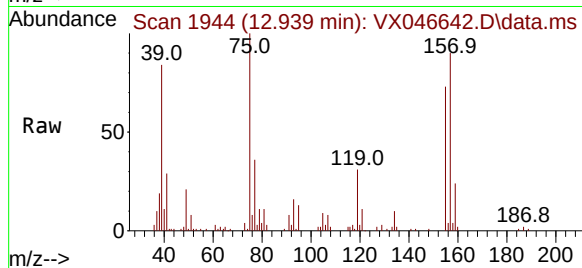
Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion:	75	Resp:	1552
Ion Ratio	Lower	Upper	
75	100		
155	75.2	34.9	104.8
157	96.3	43.8	131.4

Manual Integrations
APPROVEDReviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

#93

1,2,4-Trichlorobenzene

Concen: 50.957 ug/l

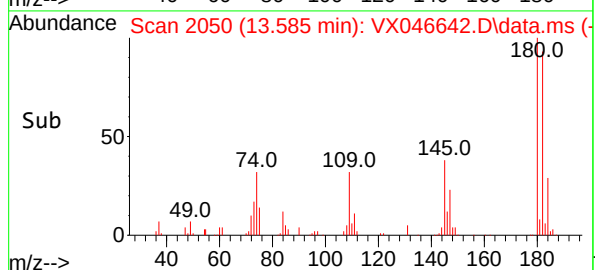
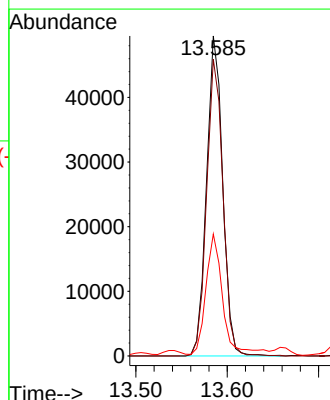
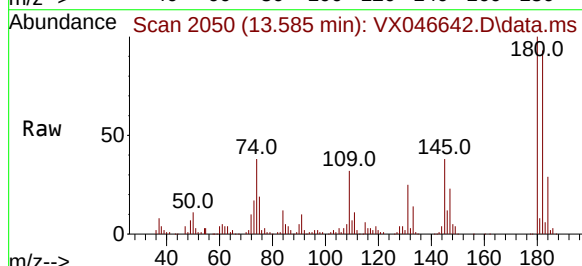
RT: 13.585 min Scan# 2050

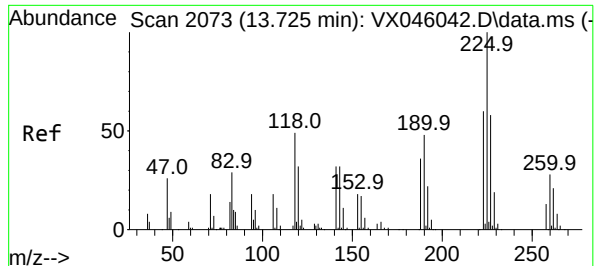
Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Tgt Ion:	180	Resp:	60470
Ion Ratio	Lower	Upper	
180	100		
182	94.0	47.9	143.8
145	40.6	17.1	51.2





#94

Hexachlorobutadiene

Concen: 45.002 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

Instrument :

MSVOA_X

ClientSampleId :

GW-MW01-060425MSD

Tgt Ion:225 Resp: 24818

Ion Ratio Lower Upper

225 100

223 64.9 30.8 92.4

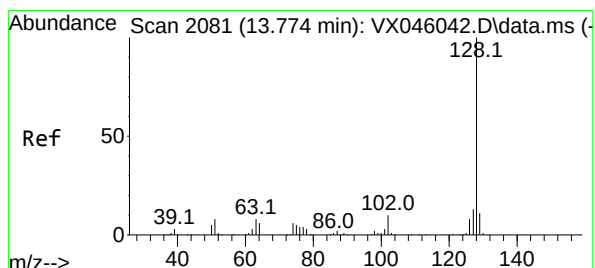
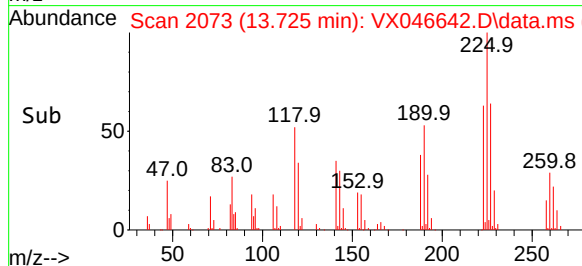
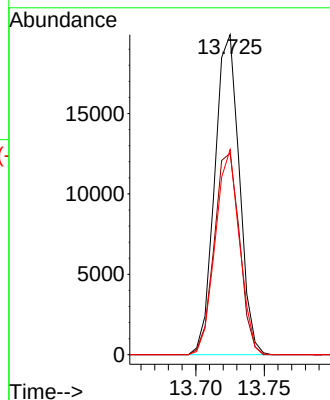
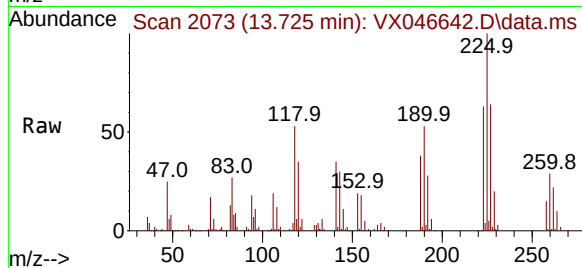
227 63.1 30.9 92.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#95

Naphthalene

Concen: 64.134 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX046642.D

Acq: 11 Jun 2025 17:09

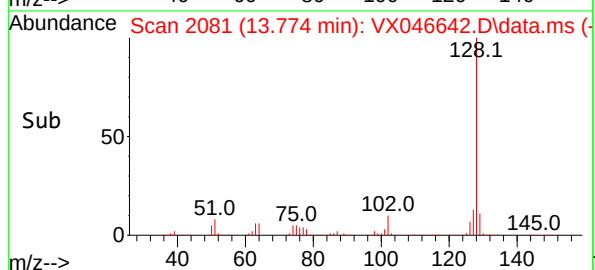
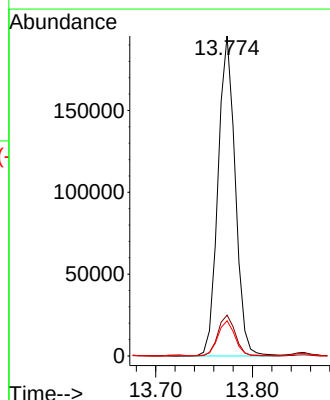
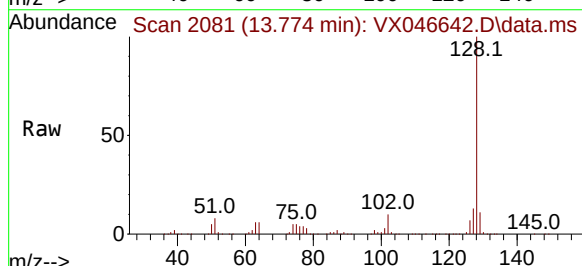
Tgt Ion:128 Resp: 241348

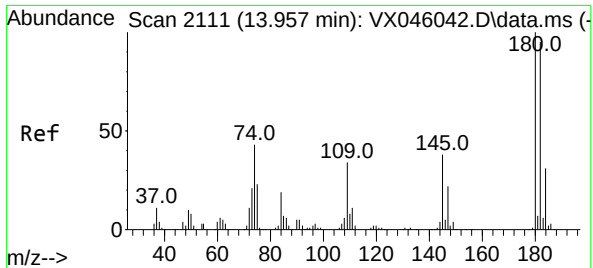
Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

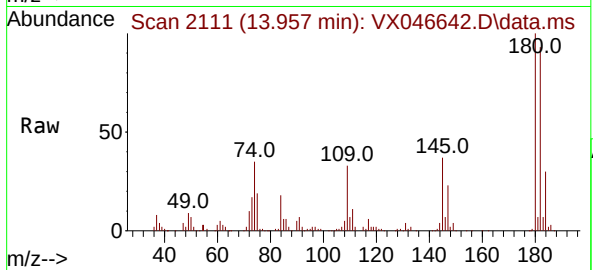
129 11.0 8.6 13.0





#96
1,2,3-Trichlorobenzene
Concen: 50.592 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046642.D
Acq: 11 Jun 2025 17:09

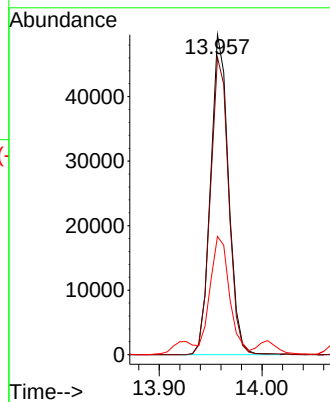
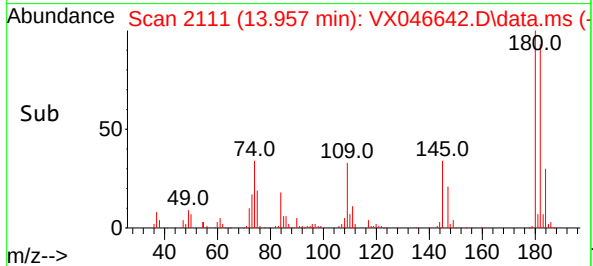
Instrument :
MSVOA_X
ClientSampleId :
GW-MW01-060425MSD



Tgt Ion:180 Resp: 60200
Ion Ratio Lower Upper
180 100
182 94.4 47.8 143.3
145 38.7 18.1 54.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



Manual Integration Report

Sequence:	VX060625	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	VX046518.D	1,2,3-Trichloropropane	JOHN	6/6/2025 5:25:36 PM	MMDadoda	6/9/2025 1:14:56 PM	Peak Integrated by Software
VSTDIC020	VX046519.D	1,2,3-Trichloropropane	JOHN	6/6/2025 5:25:40 PM	MMDadoda	6/9/2025 1:14:59 PM	Peak Integrated by Software
VSTDIC050	VX046520.D	1,2,3-Trichloropropane	JOHN	6/6/2025 5:25:44 PM	MMDadoda	6/9/2025 1:15:03 PM	Peak Integrated by Software
VSTDIC100	VX046521.D	1,2,3-Trichloropropane	JOHN	6/6/2025 5:25:48 PM	MMDadoda	6/9/2025 1:15:08 PM	Peak Integrated by Software
VSTDIC150	VX046522.D	1,2,3-Trichloropropane	JOHN	6/6/2025 5:25:52 PM	MMDadoda	6/9/2025 1:15:37 PM	Peak Integrated by Software
VSTDIC001	VX046524.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:08:38 AM	MMDadoda	6/9/2025 1:15:41 PM	Peak Integrated by Software
VSTDIC001	VX046524.D	1,4-Dichlorobenzene	JOHN	6/9/2025 8:08:38 AM	MMDadoda	6/9/2025 1:15:41 PM	Peak Integrated by Software
VSTDIC001	VX046524.D	Ethyl Acetate	JOHN	6/9/2025 8:08:38 AM	MMDadoda	6/9/2025 1:15:41 PM	Peak Integrated by Software
VSTDICV050	VX046525.D	1,2,3-Trichloropropane	JOHN	6/6/2025 5:26:01 PM	MMDadoda	6/9/2025 1:16:01 PM	Peak Integrated by Software
VSTDIC050	VX046544.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:10:18 AM	MMDadoda	6/9/2025 1:16:52 PM	Peak Integrated by Software
VSTDIC050	VX046546.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:10:22 AM	MMDadoda	6/9/2025 1:16:54 PM	Peak Integrated by Software
VSTDIC050	VX046565.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:12:06 AM	Sam	6/9/2025 1:18:52 PM	Peak Integrated by Software



Manual Integration Report

Sequence:	VX060625	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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Manual Integration Report

Sequence:	VX061025	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX046586.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:01:36 AM	MMDadoda	6/11/2025 11:13:23 AM	Peak Integrated by Software
VX0610WBS01	VX046589.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:01:43 AM	MMDadoda	6/11/2025 11:13:26 AM	Peak Integrated by Software
Q2230-05	VX046601.D	n-Butylbenzene	JOHN	6/11/2025 10:01:54 AM	MMDadoda	6/11/2025 11:13:32 AM	Peak Integrated by Software
Q2230-02	VX046602.D	n-Butylbenzene	JOHN	6/11/2025 10:01:59 AM	MMDadoda	6/11/2025 11:13:35 AM	Peak Integrated by Software
VSTDCCC050	VX046612.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:02:50 AM	MMDadoda	6/11/2025 11:13:46 AM	Peak Integrated by Software
VSTDICC005	VX046614.D	1,1,1-Trichloroethane	JOHN	6/11/2025 10:02:54 AM	MMDadoda	6/11/2025 11:13:49 AM	Peak Integrated by Software
VSTDICC005	VX046614.D	1,1-Dichloropropene	JOHN	6/11/2025 10:02:54 AM	MMDadoda	6/11/2025 11:13:49 AM	Peak Integrated by Software
VSTDICC005	VX046614.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:02:54 AM	MMDadoda	6/11/2025 11:13:49 AM	Peak Integrated by Software
VSTDICC005	VX046614.D	1,2-Dibromoethane	JOHN	6/11/2025 10:02:54 AM	MMDadoda	6/11/2025 11:13:49 AM	Peak Integrated by Software
VSTDICC005	VX046614.D	1,2-Dichloropropane	JOHN	6/11/2025 10:02:54 AM	MMDadoda	6/11/2025 11:13:49 AM	Peak Integrated by Software
VSTDICC005	VX046614.D	Acrolein	JOHN	6/11/2025 10:02:54 AM	MMDadoda	6/11/2025 11:13:49 AM	Peak Integrated by Software
VSTDICC005	VX046614.D	Diethyl Ether	JOHN	6/11/2025 10:02:54 AM	MMDadoda	6/11/2025 11:13:49 AM	Peak Integrated by Software
VSTDICC005	VX046614.D	Methyl methacrylate	JOHN	6/11/2025 10:02:54 AM	MMDadoda	6/11/2025 11:13:49 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VX061025	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC020	VX046615.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:02:58 AM	MMDadoda	6/11/2025 11:13:51 AM	Peak Integrated by Software
VSTDICCC020	VX046615.D	Ethyl Acetate	JOHN	6/11/2025 10:02:58 AM	MMDadoda	6/11/2025 11:13:51 AM	Peak Integrated by Software
VSTDICCC050	VX046616.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:03:09 AM	MMDadoda	6/11/2025 11:13:53 AM	Peak Integrated by Software
VSTDICCC100	VX046617.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:03:14 AM	MMDadoda	6/11/2025 11:13:55 AM	Peak Integrated by Software
VSTDICCC100	VX046617.D	Ethyl Acetate	JOHN	6/11/2025 10:03:14 AM	MMDadoda	6/11/2025 11:13:55 AM	Peak Integrated by Software
VSTDICCC150	VX046618.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:03:18 AM	MMDadoda	6/11/2025 11:13:57 AM	Peak Integrated by Software
VSTDICCC150	VX046618.D	Ethyl Acetate	JOHN	6/11/2025 10:03:18 AM	MMDadoda	6/11/2025 11:13:57 AM	Peak Integrated by Software
VSTDICCV020	VX046620.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:03:22 AM	MMDadoda	6/11/2025 11:13:59 AM	Peak Integrated by Software
VSTDICCV020	VX046620.D	tert-Butyl Alcohol	JOHN	6/11/2025 10:03:22 AM	MMDadoda	6/11/2025 11:13:59 AM	Peak Integrated by Software
VSTDCCC020	VX046626.D	1,2,3-Trichloropropane	JOHN	6/11/2025 10:03:50 AM	MMDadoda	6/11/2025 11:14:07 AM	Peak Integrated by Software
VSTDCCC020	VX046626.D	Ethyl Acetate	JOHN	6/11/2025 10:03:50 AM	MMDadoda	6/11/2025 11:14:07 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VX061125	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VX046628.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:58:34 AM	MMDadoda	6/12/2025 3:52:37 PM	Peak Integrated by Software
VSTDCCC020	VX046628.D	2,2-Dichloropropane	JOHN	6/12/2025 9:58:34 AM	MMDadoda	6/12/2025 3:52:37 PM	Peak Integrated by Software
VSTDCCC020	VX046628.D	Ethyl Acetate	JOHN	6/12/2025 9:58:34 AM	MMDadoda	6/12/2025 3:52:37 PM	Peak Integrated by Software
VSTDCCC050	VX046636.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:58:51 AM	MMDadoda	6/12/2025 3:52:52 PM	Peak Integrated by Software
VSTDCCC050	VX046636.D	Chloroethane	JOHN	6/12/2025 9:58:51 AM	MMDadoda	6/12/2025 3:52:52 PM	Peak Integrated by Software
VX0611WBS02	VX046639.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:58:55 AM	MMDadoda	6/12/2025 3:52:54 PM	Peak Integrated by Software
VX0611WBS02	VX046639.D	Chloroethane	JOHN	6/12/2025 9:58:55 AM	MMDadoda	6/12/2025 3:52:54 PM	Peak Integrated by Software
Q2230-03MS	VX046641.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:59:04 AM	MMDadoda	6/12/2025 3:53:01 PM	Peak Integrated by Software
Q2230-04MSD	VX046642.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:59:08 AM	MMDadoda	6/12/2025 3:53:03 PM	Peak Integrated by Software
Q2230-04MSD	VX046642.D	Chloroethane	JOHN	6/12/2025 9:59:08 AM	MMDadoda	6/12/2025 3:53:03 PM	Peak Integrated by Software
VSTDCCC050	VX046655.D	1,2,3-Trichloropropane	JOHN	6/12/2025 10:00:06 AM	MMDadoda	6/12/2025 3:53:28 PM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX060625

Review By	Mahesh Dadoda	Review On	6/9/2025 1:15:21 PM
Supervise By	Semsettin Yesilyurt	Supervise On	6/9/2025 1:19:58 PM
SubDirectory	VX060625	HP Acquire Method	HP Processing Method 82X060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134153		
Initial Calibration Stds	VP134235,VP134236,VP134237,VP134238,VP134239,VP134240		
CCC	VP134154		
Internal Standard/PEM			
ICV/I.BLK	VP134241		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX046516.D	06 Jun 2025 08:47	JC/MD	Ok
2	VSTDIC001	VX046517.D	06 Jun 2025 09:13	JC/MD	Not Ok
3	VSTDIC005	VX046518.D	06 Jun 2025 09:42	JC/MD	Ok,M
4	VSTDIC020	VX046519.D	06 Jun 2025 10:18	JC/MD	Ok,M
5	VSTDIC050	VX046520.D	06 Jun 2025 10:40	JC/MD	Ok,M
6	VSTDIC100	VX046521.D	06 Jun 2025 11:02	JC/MD	Ok,M
7	VSTDIC150	VX046522.D	06 Jun 2025 11:25	JC/MD	Ok,M
8	IBLK	VX046523.D	06 Jun 2025 11:47	JC/MD	Ok
9	VSTDIC001	VX046524.D	06 Jun 2025 12:57	JC/MD	Ok,M
10	VSTDICV050	VX046525.D	06 Jun 2025 14:11	JC/MD	Ok,M
11	VX0606MBL01	VX046526.D	06 Jun 2025 14:39	JC/MD	Ok
12	VX0606WBL01	VX046527.D	06 Jun 2025 15:02	JC/MD	Ok
13	VX0606WBS01	VX046528.D	06 Jun 2025 15:25	JC/MD	Ok,M
14	VX0606MBS01	VX046529.D	06 Jun 2025 15:51	JC/MD	Ok,M
15	Q2168-11MEDL	VX046530.D	06 Jun 2025 16:13	JC/MD	Ok
16	VX0606WBSD01	VX046531.D	06 Jun 2025 16:36	JC/MD	Ok,M
17	Q2194-02	VX046532.D	06 Jun 2025 16:58	JC/MD	Ok
18	Q2194-04	VX046533.D	06 Jun 2025 17:21	JC/MD	Ok
19	Q2207-09	VX046534.D	06 Jun 2025 17:43	JC/MD	Ok,M
20	Q2207-18	VX046535.D	06 Jun 2025 18:06	JC/MD	Ok,M
21	Q2207-27	VX046536.D	06 Jun 2025 18:28	JC/MD	Ok,M

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX060625

Review By	Maresh Dadoda	Review On	6/9/2025 1:15:21 PM
Supervise By	Semsettin Yesilyurt	Supervise On	6/9/2025 1:19:58 PM
SubDirectory	VX060625	HP Acquire Method	HP Processing Method 82X060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134153		
Initial Calibration Stds	VP134235,VP134236,VP134237,VP134238,VP134239,VP134240		
CCC	VP134154		
Internal Standard/PEM			
ICV/I.BLK	VP134241		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2207-36	VX046537.D	06 Jun 2025 18:51	JC/MD	Ok,M
23	Q2207-45	VX046538.D	06 Jun 2025 19:13	JC/MD	Ok,M
24	Q2208-09	VX046539.D	06 Jun 2025 19:35	JC/MD	Ok,M
25	Q2208-18	VX046540.D	06 Jun 2025 19:58	JC/MD	Ok,M
26	Q2208-27	VX046541.D	06 Jun 2025 20:20	JC/MD	Ok,M
27	Q2208-36	VX046542.D	06 Jun 2025 20:42	JC/MD	Ok,M
28	Q2236-01	VX046543.D	06 Jun 2025 21:04	JC/MD	Not Ok
29	VSTDCCC050	VX046544.D	06 Jun 2025 21:26	JC/MD	Not Ok
30	BFB	VX046545.D	06 Jun 2025 23:59	JC/MD	Ok
31	VSTDCCC050	VX046546.D	07 Jun 2025 00:34	JC/MD	Ok,M
32	VX0606WBL02	VX046547.D	07 Jun 2025 01:17	JC/MD	Ok
33	VX0606WBS02	VX046548.D	07 Jun 2025 02:00	JC/MD	Ok,M
34	VX0606WBSD02	VX046549.D	07 Jun 2025 02:22	JC/MD	Ok,M
35	PB168312TB	VX046550.D	07 Jun 2025 02:43	JC/MD	Ok,M
36	PB168272TB	VX046551.D	07 Jun 2025 03:05	JC/MD	Ok,M
37	Q2236-05	VX046552.D	07 Jun 2025 03:26	JC/MD	ReRun
38	Q2236-09	VX046553.D	07 Jun 2025 03:48	JC/MD	ReRun
39	Q2236-13	VX046554.D	07 Jun 2025 04:09	JC/MD	Ok
40	Q2236-17	VX046555.D	07 Jun 2025 04:31	JC/MD	ReRun
41	Q2227-04	VX046556.D	07 Jun 2025 04:52	JC/MD	Ok,M
42	Q2228-04	VX046557.D	07 Jun 2025 05:14	JC/MD	ReRun
43	Q2235-01	VX046558.D	07 Jun 2025 05:36	JC/MD	ReRun
44	Q2240-04	VX046559.D	07 Jun 2025 05:57	JC/MD	ReRun

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QCBatch ID # VX060625

Review By	Mahesh Dadoda	Review On	6/9/2025 1:15:21 PM
Supervise By	Semsettin Yesilyurt	Supervise On	6/9/2025 1:19:58 PM
SubDirectory	VX060625	HP Acquire Method	HP Processing Method 82X060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134153		
Initial Calibration Stds	VP134235,VP134236,VP134237,VP134238,VP134239,VP134240		
CCC	VP134154		
Internal Standard/PEM			
ICV/I.BLK	VP134241		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

45	Q2240-08	VX046560.D	07 Jun 2025 06:18	JC/MD	ReRun
46	Q2240-12	VX046561.D	07 Jun 2025 06:40	JC/MD	ReRun
47	Q2241-04	VX046562.D	07 Jun 2025 07:01	JC/MD	ReRun
48	Q2241-08	VX046563.D	07 Jun 2025 07:23	JC/MD	ReRun
49	Q2226-04	VX046564.D	07 Jun 2025 07:44	JC/MD	ReRun
50	VSTDCCC050	VX046565.D	07 Jun 2025 08:06	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QCBatch ID # VX061025

Review By	John Carlone	Review On	6/11/2025 10:17:47 AM
Supervise By	Maresh Dadoda	Supervise On	6/11/2025 11:14:33 AM
SubDirectory	VX061025	HP Acquire Method	HP Processing Method 82X060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134200		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134201,VP134202		

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX046585.D	10 Jun 2025 08:36	JC/MD	Ok
2	VSTDCCC050	VX046586.D	10 Jun 2025 09:07	JC/MD	Ok,M
3	VX0610MBL01	VX046587.D	10 Jun 2025 09:36	JC/MD	Ok
4	VX0610WBL01	VX046588.D	10 Jun 2025 09:57	JC/MD	Ok
5	VX0610WBS01	VX046589.D	10 Jun 2025 10:18	JC/MD	Ok,M
6	VX0610WBSD01	VX046590.D	10 Jun 2025 10:44	JC/MD	Ok,M
7	Q2262-02	VX046591.D	10 Jun 2025 11:05	JC/MD	Ok
8	Q2262-04	VX046592.D	10 Jun 2025 11:27	JC/MD	Ok
9	IBLK	VX046593.D	10 Jun 2025 11:48	JC/MD	Ok
10	Q2230-01	VX046594.D	10 Jun 2025 12:09	JC/MD	Ok
11	Q2230-06	VX046595.D	10 Jun 2025 12:30	JC/MD	Ok
12	Q2233-01DL	VX046596.D	10 Jun 2025 12:51	JC/MD	Ok
13	Q2233-03DL	VX046597.D	10 Jun 2025 13:13	JC/MD	Ok
14	Q2233-04DL	VX046598.D	10 Jun 2025 13:34	JC/MD	Ok
15	Q2234-01DL	VX046599.D	10 Jun 2025 13:55	JC/MD	Ok
16	IBLK	VX046600.D	10 Jun 2025 14:16	JC/MD	Ok
17	Q2230-05	VX046601.D	10 Jun 2025 14:38	JC/MD	Ok,M
18	Q2230-02	VX046602.D	10 Jun 2025 14:59	JC/MD	Ok,M
19	Q2230-03MS	VX046603.D	10 Jun 2025 15:20	JC/MD	Not Ok
20	Q2230-04MSD	VX046604.D	10 Jun 2025 15:42	JC/MD	Not Ok
21	IBLK	VX046605.D	10 Jun 2025 16:03	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QCBatch ID # VX061025

Review By	John Carlone	Review On	6/11/2025 10:17:47 AM
Supervise By	Maresh Dadoda	Supervise On	6/11/2025 11:14:33 AM
SubDirectory	VX061025	HP Acquire Method	HP Processing Method 82X060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134200		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134201,VP134202		

22	Q2249-01	VX046606.D	10 Jun 2025 16:24	JC/MD	Not Ok
23	IBLK	VX046607.D	10 Jun 2025 16:46	JC/MD	Ok
24	Q2233-01	VX046608.D	10 Jun 2025 17:07	JC/MD	Dilution
25	Q2233-03	VX046609.D	10 Jun 2025 17:28	JC/MD	Dilution
26	Q2233-04	VX046610.D	10 Jun 2025 17:50	JC/MD	Dilution
27	Q2234-01	VX046611.D	10 Jun 2025 18:11	JC/MD	Dilution
28	VSTDCCC050	VX046612.D	10 Jun 2025 18:53	JC/MD	Ok,M
29	BFB	VX046613.D	10 Jun 2025 19:57	JC/MD	Ok
30	VSTDICC005	VX046614.D	10 Jun 2025 20:19	JC/MD	Ok,M
31	VSTDICCC020	VX046615.D	10 Jun 2025 20:40	JC/MD	Ok,M
32	VSTDICC050	VX046616.D	10 Jun 2025 21:01	JC/MD	Ok,M
33	VSTDICC100	VX046617.D	10 Jun 2025 21:22	JC/MD	Ok,M
34	VSTDICC150	VX046618.D	10 Jun 2025 21:44	JC/MD	Ok,M
35	IBLK	VX046619.D	10 Jun 2025 22:05	JC/MD	Ok
36	VSTDICV020	VX046620.D	10 Jun 2025 22:26	JC/MD	Ok,M
37	VX0610WBS02	VX046621.D	10 Jun 2025 23:09	JC/MD	Ok,M
38	VX0610WBSD02	VX046622.D	10 Jun 2025 23:30	JC/MD	Ok,M
39	VX0610WBL02	VX046623.D	11 Jun 2025 00:12	JC/MD	Ok
40	Q2203-01	VX046624.D	11 Jun 2025 00:33	JC/MD	Dilution
41	Q2203-04	VX046625.D	11 Jun 2025 00:54	JC/MD	Dilution
42	VSTDCCC020	VX046626.D	11 Jun 2025 01:16	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QCBatch ID # VX061125

Review By	John Carlone	Review On	6/12/2025 10:06:05 AM
Supervise By	Maresh Dadoda	Supervise On	6/12/2025 3:53:50 PM
SubDirectory	VX061125	HP Acquire Method	HP Processing Method 624X061025W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134259,VP134275		
Initial Calibration Stds	VP134316,VP134317,VP134318,VP134319,VP134320		
CCC	VP134260,VP134261,VP134276,VP134277		
Internal Standard/PEM			
ICV/I.BLK	VP134321		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX046627.D	11 Jun 2025 10:45	JC/MD	Ok
2	VSTDCCC020	VX046628.D	11 Jun 2025 11:12	JC/MD	Ok,M
3	VX0611WBS01	VX046629.D	11 Jun 2025 11:43	JC/MD	Ok,M
4	VX0611WBSD01	VX046630.D	11 Jun 2025 12:09	JC/MD	Ok,M
5	VX0611WBL01	VX046631.D	11 Jun 2025 12:31	JC/MD	Ok
6	Q2203-01DL	VX046632.D	11 Jun 2025 12:57	JC/MD	Ok,M
7	Q2203-04DL	VX046633.D	11 Jun 2025 13:18	JC/MD	Ok,M
8	Q2264-01	VX046634.D	11 Jun 2025 13:40	JC/MD	Ok,M
9	BFB	VX046635.D	11 Jun 2025 14:01	JC/MD	Ok
10	VSTDCCC050	VX046636.D	11 Jun 2025 14:46	JC/MD	Ok,M
11	VX0611WBL02	VX046637.D	11 Jun 2025 15:14	JC/MD	Ok
12	VX0611MBL01	VX046638.D	11 Jun 2025 15:36	JC/MD	Ok
13	VX0611WBS02	VX046639.D	11 Jun 2025 15:58	JC/MD	Ok,M
14	VX0611WBSD02	VX046640.D	11 Jun 2025 16:25	JC/MD	Ok,M
15	Q2230-03MS	VX046641.D	11 Jun 2025 16:47	JC/MD	Ok,M
16	Q2230-04MSD	VX046642.D	11 Jun 2025 17:09	JC/MD	Ok,M
17	IBLK	VX046643.D	11 Jun 2025 17:31	JC/MD	Ok
18	Q2249-01	VX046644.D	11 Jun 2025 17:53	JC/MD	ReRun
19	Q2271-04	VX046645.D	11 Jun 2025 18:15	JC/MD	ReRun
20	Q2272-04	VX046646.D	11 Jun 2025 18:37	JC/MD	ReRun
21	Q2273-04	VX046647.D	11 Jun 2025 18:59	JC/MD	ReRun

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX061125

Review By	John Carlone	Review On	6/12/2025 10:06:05 AM
Supervise By	Mahesh Dadoda	Supervise On	6/12/2025 3:53:50 PM
SubDirectory	VX061125	HP Acquire Method	HP Processing Method 624X061025W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134259,VP134275		
Initial Calibration Stds	VP134316,VP134317,VP134318,VP134319,VP134320		
CCC	VP134260,VP134261,VP134276,VP134277		
Internal Standard/PEM			
ICV/I.BLK	VP134321		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2273-08	VX046648.D	11 Jun 2025 19:21	JC/MD	ReRun
23	Q2274-04	VX046649.D	11 Jun 2025 19:43	JC/MD	ReRun
24	Q2278-04	VX046650.D	11 Jun 2025 20:04	JC/MD	ReRun
25	Q2280-02	VX046651.D	11 Jun 2025 20:26	JC/MD	ReRun
26	Q2280-04	VX046652.D	11 Jun 2025 20:48	JC/MD	ReRun
27	Q2285-05	VX046653.D	11 Jun 2025 21:10	JC/MD	ReRun
28	PB168370TB	VX046654.D	11 Jun 2025 21:32	JC/MD	Ok,M
29	VSTDCCC050	VX046655.D	11 Jun 2025 21:53	JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX060625

Review By	Mahesh Dadoda	Review On	6/9/2025 1:15:21 PM
Supervise By	Semsettin Yesilyurt	Supervise On	6/9/2025 1:19:58 PM
SubDirectory	VX060625	HP Acquire Method	HP Processing Method 82X060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134153
Initial Calibration Stds	VP134235,VP134236,VP134237,VP134238,VP134239,VP134240
CCC	VP134154
Internal Standard/PEM	
ICV/I.BLK	VP134241
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX046516.D	06 Jun 2025 08:47		JC/MD	Ok
2	VSTDIC001	VSTDIC001	VX046517.D	06 Jun 2025 09:13		JC/MD	Not Ok
3	VSTDIC005	VSTDIC005	VX046518.D	06 Jun 2025 09:42	for TCLP	JC/MD	Ok,M
4	VSTDIC020	VSTDIC020	VX046519.D	06 Jun 2025 10:18	Comp #05 fail	JC/MD	Ok,M
5	VSTDIC050	VSTDIC050	VX046520.D	06 Jun 2025 10:40	LR-13,16,17	JC/MD	Ok,M
6	VSTDIC100	VSTDIC100	VX046521.D	06 Jun 2025 11:02		JC/MD	Ok,M
7	VSTDIC150	VSTDIC150	VX046522.D	06 Jun 2025 11:25		JC/MD	Ok,M
8	IBLK	IBLK	VX046523.D	06 Jun 2025 11:47		JC/MD	Ok
9	VSTDIC001	VSTDIC001	VX046524.D	06 Jun 2025 12:57		JC/MD	Ok,M
10	VSTDICV050	ICV VX060625	VX046525.D	06 Jun 2025 14:11		JC/MD	Ok,M
11	VX0606MBL01	VX0606MBL01	VX046526.D	06 Jun 2025 14:39		JC/MD	Ok
12	VX0606WBL01	VX0606WBL01	VX046527.D	06 Jun 2025 15:02		JC/MD	Ok
13	VX0606WBS01	VX0606WBS01	VX046528.D	06 Jun 2025 15:25		JC/MD	Ok,M
14	VX0606MBS01	VX0606MBS01	VX046529.D	06 Jun 2025 15:51		JC/MD	Ok,M
15	Q2168-11MEDL	C2MEDL	VX046530.D	06 Jun 2025 16:13		JC/MD	Ok
16	VX0606WBSD01	VX0606WBSD01	VX046531.D	06 Jun 2025 16:36		JC/MD	Ok,M
17	Q2194-02	COMP-12	VX046532.D	06 Jun 2025 16:58	vial A pH#5.0	JC/MD	Ok
18	Q2194-04	COMP-13	VX046533.D	06 Jun 2025 17:21	vial A pH#5.0	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX060625

Review By	Maresh Dadoda	Review On	6/9/2025 1:15:21 PM
Supervise By	Semsettin Yesilyurt	Supervise On	6/9/2025 1:19:58 PM
SubDirectory	VX060625	HP Acquire Method	HP Processing Method 82X060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134153		
Initial Calibration Stds	VP134235,VP134236,VP134237,VP134238,VP134239,VP134240		
CCC	VP134154		
Internal Standard/PEM			
ICV/I.BLK	VP134241		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q2207-09	BU-703-COMP-01	VX046534.D	06 Jun 2025 17:43	vial A pH#5.0	JC/MD	Ok,M
20	Q2207-18	BU-703-COMP-02	VX046535.D	06 Jun 2025 18:06	vial A pH#5.0	JC/MD	Ok,M
21	Q2207-27	BU-703-COMP-03	VX046536.D	06 Jun 2025 18:28	vial A pH#5.0	JC/MD	Ok,M
22	Q2207-36	BU-703-COMP-04	VX046537.D	06 Jun 2025 18:51	vial A pH#5.0	JC/MD	Ok,M
23	Q2207-45	BU-703-COMP-05	VX046538.D	06 Jun 2025 19:13	vial A pH#5.0	JC/MD	Ok,M
24	Q2208-09	BU-703-COMP-06	VX046539.D	06 Jun 2025 19:35	vial A pH#5.0	JC/MD	Ok,M
25	Q2208-18	BU-703-COMP-07	VX046540.D	06 Jun 2025 19:58	vial A pH#5.0	JC/MD	Ok,M
26	Q2208-27	BU-703-COMP-08	VX046541.D	06 Jun 2025 20:20	vial A pH#5.0	JC/MD	Ok,M
27	Q2208-36	BU-703-COMP-09	VX046542.D	06 Jun 2025 20:42	vial A pH#5.0	JC/MD	Ok,M
28	Q2236-01	WC-A4-05A-G	VX046543.D	06 Jun 2025 21:04	vial A pH#5.0 Out of tune	JC/MD	Not Ok
29	VSTDCCC050	VSTDCCC050EC	VX046544.D	06 Jun 2025 21:26	Out of tune	JC/MD	Not Ok
30	BFB	BFB	VX046545.D	06 Jun 2025 23:59		JC/MD	Ok
31	VSTDCCC050	VSTDCCC050	VX046546.D	07 Jun 2025 00:34		JC/MD	Ok,M
32	VX0606WBL02	VX0606WBL02	VX046547.D	07 Jun 2025 01:17		JC/MD	Ok
33	VX0606WBS02	VX0606WBS02	VX046548.D	07 Jun 2025 02:00		JC/MD	Ok,M
34	VX0606WBSD02	VX0606WBSD02	VX046549.D	07 Jun 2025 02:22		JC/MD	Ok,M
35	PB168312TB	PB168312TB	VX046550.D	07 Jun 2025 02:43		JC/MD	Ok,M
36	PB168272TB	PB168272TB	VX046551.D	07 Jun 2025 03:05		JC/MD	Ok,M
37	Q2236-05	WC-A2-04-G	VX046552.D	07 Jun 2025 03:26	Surrogate Fail	JC/MD	ReRun

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX060625

Review By	Maresh Dadoda	Review On	6/9/2025 1:15:21 PM
Supervise By	Semsettin Yesilyurt	Supervise On	6/9/2025 1:19:58 PM
SubDirectory	VX060625	HP Acquire Method	HP Processing Method 82X060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134153		
Initial Calibration Stds	VP134235,VP134236,VP134237,VP134238,VP134239,VP134240		
CCC	VP134154		
Internal Standard/PEM			
ICV/I.BLK	VP134241		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

38	Q2236-09	WC-A2-05-G	VX046553.D	07 Jun 2025 03:48	Internal Standard Fail	JC/MD	ReRun
39	Q2236-13	WC-A2-06-G	VX046554.D	07 Jun 2025 04:09	vial A pH#5.0	JC/MD	Ok
40	Q2236-17	WC-A2-07-G	VX046555.D	07 Jun 2025 04:31	Internal Standard Fail; Surrogate fail	JC/MD	ReRun
41	Q2227-04	TP07-MHH-WC	VX046556.D	07 Jun 2025 04:52		JC/MD	Ok,M
42	Q2228-04	TP08-MHI-WC	VX046557.D	07 Jun 2025 05:14	Internal Standard Fail	JC/MD	ReRun
43	Q2235-01	WC-A2-08-G	VX046558.D	07 Jun 2025 05:36	Internal Standard Fail	JC/MD	ReRun
44	Q2240-04	TP-3	VX046559.D	07 Jun 2025 05:57	Internal Standard Fail	JC/MD	ReRun
45	Q2240-08	TP-2	VX046560.D	07 Jun 2025 06:18	Internal Standard Fail	JC/MD	ReRun
46	Q2240-12	TP-1	VX046561.D	07 Jun 2025 06:40	Internal Standard Fail	JC/MD	ReRun
47	Q2241-04	TP-N	VX046562.D	07 Jun 2025 07:01	Internal Standard Fail	JC/MD	ReRun
48	Q2241-08	TP-S	VX046563.D	07 Jun 2025 07:23	Internal Standard Fail	JC/MD	ReRun
49	Q2226-04	TP06-MHI-WC	VX046564.D	07 Jun 2025 07:44	Internal Standard Fail	JC/MD	ReRun
50	VSTDCCC050	VSTDCCC050EC	VX046565.D	07 Jun 2025 08:06		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX061025

Review By	John Carlone	Review On	6/11/2025 10:17:47 AM
Supervise By	Mahesh Dadoda	Supervise On	6/11/2025 11:14:33 AM
SubDirectory	VX061025	HP Acquire Method	HP Processing Method 82X060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134200		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134201,VP134202		

Sr #	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX046585.D	10 Jun 2025 08:36		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX046586.D	10 Jun 2025 09:07	pH#Lot#V12668	JC/MD	Ok,M
3	VX0610MBL01	VX0610MBL01	VX046587.D	10 Jun 2025 09:36		JC/MD	Ok
4	VX0610WBL01	VX0610WBL01	VX046588.D	10 Jun 2025 09:57		JC/MD	Ok
5	VX0610WBS01	VX0610WBS01	VX046589.D	10 Jun 2025 10:18		JC/MD	Ok,M
6	VX0610WBSD01	VX0610WBSD01	VX046590.D	10 Jun 2025 10:44		JC/MD	Ok,M
7	Q2262-02	ARS20-0032	VX046591.D	10 Jun 2025 11:05	vial B pH#5.0	JC/MD	Ok
8	Q2262-04	ARS20-0001	VX046592.D	10 Jun 2025 11:27	vial B pH#5.0	JC/MD	Ok
9	IBLK	IBLK	VX046593.D	10 Jun 2025 11:48		JC/MD	Ok
10	Q2230-01	FB-060425	VX046594.D	10 Jun 2025 12:09	vial A pH<2 FB	JC/MD	Ok
11	Q2230-06	TB060425	VX046595.D	10 Jun 2025 12:30	vial A pH<2 TB	JC/MD	Ok
12	Q2233-01DL	MW-18B-56-060425DL	VX046596.D	10 Jun 2025 12:51	vial B pH<2	JC/MD	Ok
13	Q2233-03DL	MW-18B-56-060425-FD	VX046597.D	10 Jun 2025 13:13	vial B pH<2	JC/MD	Ok
14	Q2233-04DL	MW-19B-72-060425DL	VX046598.D	10 Jun 2025 13:34	vial B pH<2	JC/MD	Ok
15	Q2234-01DL	MW-17B-55-060425DL	VX046599.D	10 Jun 2025 13:55	vial B pH<2	JC/MD	Ok
16	IBLK	IBLK	VX046600.D	10 Jun 2025 14:16		JC/MD	Ok
17	Q2230-05	GW-MW901-060425	VX046601.D	10 Jun 2025 14:38	vial A pH<2	JC/MD	Ok,M
18	Q2230-02	GW-MW01-060425	VX046602.D	10 Jun 2025 14:59	vial A pH<2	JC/MD	Ok,M

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX061025

Review By	John Carlone	Review On	6/11/2025 10:17:47 AM
Supervise By	Maresh Dadoda	Supervise On	6/11/2025 11:14:33 AM
SubDirectory	VX061025	HP Acquire Method	HP Processing Method 82X060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134200		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134201,VP134202		

19	Q2230-03MS	GW-MW01-060425MS	VX046603.D	10 Jun 2025 15:20	Internal Standard Fail; Surrogate Fail; Spike not added	JC/MD	Not Ok
20	Q2230-04MSD	GW-MW01-060425MS	VX046604.D	10 Jun 2025 15:42	Internal Standard Fail; Surrogate Fail; Spike not added	JC/MD	Not Ok
21	IBLK	IBLK	VX046605.D	10 Jun 2025 16:03		JC/MD	Ok
22	Q2249-01	MW-06-6.5-060525	VX046606.D	10 Jun 2025 16:24	Run @ lower dilution	JC/MD	Not Ok
23	IBLK	IBLK	VX046607.D	10 Jun 2025 16:46		JC/MD	Ok
24	Q2233-01	MW-18B-56-060425	VX046608.D	10 Jun 2025 17:07	vial A pH<2 Need 10X	JC/MD	Dilution
25	Q2233-03	MW-18B-56-060425-FD	VX046609.D	10 Jun 2025 17:28	vial A pH<2 Need 10X	JC/MD	Dilution
26	Q2233-04	MW-19B-72-060425	VX046610.D	10 Jun 2025 17:50	vial A pH<2 Need 100X	JC/MD	Dilution
27	Q2234-01	MW-17B-55-060425	VX046611.D	10 Jun 2025 18:11	vial A pH<2 Need 100X	JC/MD	Dilution
28	VSTDCCC050	VSTDCCC050EC	VX046612.D	10 Jun 2025 18:53		JC/MD	Ok,M
29	BFB	BFB	VX046613.D	10 Jun 2025 19:57		JC/MD	Ok
30	VSTDICC005	VSTDICC005	VX046614.D	10 Jun 2025 20:19		JC/MD	Ok,M
31	VSTDICCC020	VSTDICCC020	VX046615.D	10 Jun 2025 20:40		JC/MD	Ok,M
32	VSTDICC050	VSTDICC050	VX046616.D	10 Jun 2025 21:01		JC/MD	Ok,M
33	VSTDICC100	VSTDICC100	VX046617.D	10 Jun 2025 21:22		JC/MD	Ok,M
34	VSTDICC150	VSTDICC150	VX046618.D	10 Jun 2025 21:44		JC/MD	Ok,M
35	IBLK	IBLK	VX046619.D	10 Jun 2025 22:05		JC/MD	Ok
36	VSTDICV020	ICVVX061025	VX046620.D	10 Jun 2025 22:26		JC/MD	Ok,M
37	VX0610WBS02	VX0610WBS02	VX046621.D	10 Jun 2025 23:09		JC/MD	Ok,M

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX061025

Review By	John Carlone	Review On	6/11/2025 10:17:47 AM
Supervise By	Maresh Dadoda	Supervise On	6/11/2025 11:14:33 AM
SubDirectory	VX061025	HP Acquire Method	HP Processing Method 82X060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134200		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134201,VP134202		

38	VX0610WBSD02	VX0610WBSD02	VX046622.D	10 Jun 2025 23:30		JC/MD	Ok,M
39	VX0610WBL02	VX0610WBL02	VX046623.D	11 Jun 2025 00:12		JC/MD	Ok
40	Q2203-01	001-WILLETS-PT-BLVD	VX046624.D	11 Jun 2025 00:33	vial A pH<2 Need 5X	JC/MD	Dilution
41	Q2203-04	002-35TH-AVE(JUNE)	VX046625.D	11 Jun 2025 00:54	vial A pH<2 Need 5X	JC/MD	Dilution
42	VSTDCCC020	VSTDCCC020EC	VX046626.D	11 Jun 2025 01:16		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX061125

Review By	John Carlone	Review On	6/12/2025 10:06:05 AM
Supervise By	Maresh Dadoda	Supervise On	6/12/2025 3:53:50 PM
SubDirectory	VX061125	HP Acquire Method	HP Processing Method 624X061025W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134259,VP134275		
Initial Calibration Stds	VP134316,VP134317,VP134318,VP134319,VP134320		
CCC	VP134260,VP134261,VP134276,VP134277		
Internal Standard/PEM			
ICV/I.BLK	VP134321		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr #	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX046627.D	11 Jun 2025 10:45		JC/MD	Ok
2	VSTDCCC020	VSTDCCC020	VX046628.D	11 Jun 2025 11:12	pH#Lot#V12668	JC/MD	Ok,M
3	VX0611WBS01	VX0611WBS01	VX046629.D	11 Jun 2025 11:43		JC/MD	Ok,M
4	VX0611WBSD01	VX0611WBSD01	VX046630.D	11 Jun 2025 12:09		JC/MD	Ok,M
5	VX0611WBL01	VX0611WBL01	VX046631.D	11 Jun 2025 12:31		JC/MD	Ok
6	Q2203-01DL	001-WILLETS-PT-BLV	VX046632.D	11 Jun 2025 12:57	vial B pH<2	JC/MD	Ok,M
7	Q2203-04DL	002-35TH-AVE(JUNE)	VX046633.D	11 Jun 2025 13:18	vial B pH<2	JC/MD	Ok,M
8	Q2264-01	EFF-WW	VX046634.D	11 Jun 2025 13:40	vial A pH<2 foamy sample	JC/MD	Ok,M
9	BFB	BFB	VX046635.D	11 Jun 2025 14:01		JC/MD	Ok
10	VSTDCCC050	VSTDCCC050	VX046636.D	11 Jun 2025 14:46		JC/MD	Ok,M
11	VX0611WBL02	VX0611WBL02	VX046637.D	11 Jun 2025 15:14		JC/MD	Ok
12	VX0611MBL01	VX0611MBL01	VX046638.D	11 Jun 2025 15:36		JC/MD	Ok
13	VX0611WBS02	VX0611WBS02	VX046639.D	11 Jun 2025 15:58		JC/MD	Ok,M
14	VX0611WBSD02	VX0611WBSD02	VX046640.D	11 Jun 2025 16:25		JC/MD	Ok,M
15	Q2230-03MS	GW-MW01-060425MS	VX046641.D	11 Jun 2025 16:47		JC/MD	Ok,M
16	Q2230-04MSD	GW-MW01-060425MS	VX046642.D	11 Jun 2025 17:09		JC/MD	Ok,M
17	IBLK	IBLK	VX046643.D	11 Jun 2025 17:31		JC/MD	Ok
18	Q2249-01	MW-06-6.5-060525	VX046644.D	11 Jun 2025 17:53	Internal Standard Fail	JC/MD	ReRun

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX061125

Review By	John Carlone	Review On	6/12/2025 10:06:05 AM
Supervise By	Maresh Dadoda	Supervise On	6/12/2025 3:53:50 PM
SubDirectory	VX061125	HP Acquire Method	HP Processing Method 624X061025W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134259,VP134275		
Initial Calibration Stds	VP134316,VP134317,VP134318,VP134319,VP134320		
CCC	VP134260,VP134261,VP134276,VP134277		
Internal Standard/PEM			
ICV/I.BLK	VP134321		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q2271-04	TP12-MHK-WC	VX046645.D	11 Jun 2025 18:15	Internal Standard Fail	JC/MD	ReRun
20	Q2272-04	TP-6	VX046646.D	11 Jun 2025 18:37	Internal Standard Fail ;Surrogate fail	JC/MD	ReRun
21	Q2273-04	WC-4	VX046647.D	11 Jun 2025 18:59	Internal Standard Fail	JC/MD	ReRun
22	Q2273-08	WC-6	VX046648.D	11 Jun 2025 19:21	Internal Standard Fail ;Surrogate fail	JC/MD	ReRun
23	Q2274-04	TP-13-MHP-WC	VX046649.D	11 Jun 2025 19:43	Internal Standard Fail; Surrogate fail	JC/MD	ReRun
24	Q2278-04	TP-2	VX046650.D	11 Jun 2025 20:04	Surrogate Fail	JC/MD	ReRun
25	Q2280-02	VNJ-210	VX046651.D	11 Jun 2025 20:26	Internal Standard Fail	JC/MD	ReRun
26	Q2280-04	RT-4643	VX046652.D	11 Jun 2025 20:48	Internal Standard Fail	JC/MD	ReRun
27	Q2285-05	HAM-CONCRETE	VX046653.D	11 Jun 2025 21:10	Internal Standard Fail	JC/MD	ReRun
28	PB168370TB	PB168370TB	VX046654.D	11 Jun 2025 21:32		JC/MD	Ok,M
29	VSTDCCC050	VSTDCCC050EC	VX046655.D	11 Jun 2025 21:53		JC/MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q2230

Test : VOCMS Group3

Prepbatch ID :

Sequence ID/Qc Batch ID: VX061025,VX061125,

Standard ID :

VP133174,VP133251,VP133887,VP133889,VP133935,VP133953,VP133978,VP133991,VP133996,VP133998,VP134142,VP134149,VP134151,VP134200,VP134201,VP134202,VP134259,VP134260,VP134261,VP134263,VP134275,VP134276,VP134277,VP134316,VP134317,VP134318,VP134319,VP134320,VP134321,

Chemical ID :

V13391,V13450,V13583,V13584,V13706,V13822,V13920,V14127,V14180,V14290,V14427,V14432,V14435,V14503,V14504,V14525,V14526,V14580,V14613,V14620,V14624,V14626,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14711,V14717,V14718,V14721,V14749,V14750,V14793,V14811,V14812,V14843,V14885,V14921,V14929,V14944,V14945,V14946,V14947,V14949,V14950,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>
466	624 Internal Standard and Surrogate Mix, 150PPM	VP133251	03/12/2025	07/02/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								03/21/2025

FROM 0.15000ml of V14580 + 0.15000ml of V14885 + 24.75000ml of V14624 = 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	VP133887	05/12/2025	06/23/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 05/14/2025

FROM 0.40000ml of V14843 + 1.00000ml of V14432 + 1.00000ml of V14435 + 1.00000ml of V14503 + 1.00000ml of V14504 + 1.00000ml of V14525 + 1.00000ml of V14526 + 1.00000ml of V14711 + 1.00000ml of V14717 + 1.00000ml of V14718 + 1.00000ml of V14721 + 1.00000ml of V14749 + 1.00000ml of V14750 + 1.00000ml of V14811 + 1.00000ml of V14812 + 10.60000ml of V14921 = 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>
245	8260 Calibration Working STD Mix-First source, 20PPM	VP133889	05/12/2025	06/22/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 05/14/2025

FROM 17.50000ml of V14921 + 2.50000ml of VP133887 = 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>
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

<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

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>
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP133978	05/15/2025	06/30/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								05/27/2025

FROM 0.16000ml of V13450 + 0.80000ml of V13822 + 0.80000ml of V14127 + 0.80000ml of V14180 + 0.80000ml of V14427 + 0.80000ml of V14793 + 1.60000ml of V13920 + 4.24000ml of V14620 = Final Quantity: 10.000 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	VP133991	05/22/2025	06/19/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								05/24/2025

FROM 1.00000ml of V14944 + 1.00000ml of V14945 + 1.00000ml of V14946 + 1.00000ml of V14947 + 21.00000ml of V14620 = 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>
180	8260 Working STD (Acrolein)-First source, 100PPM	VP133996	05/22/2025	06/19/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								05/24/2025

FROM 17.50000ml of V14620 + 2.50000ml of VP133991 = Final Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
263	8260 Working STD (Acrolein)-Second source, 800PPM	VP133998	05/22/2025	06/17/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								05/24/2025

FROM 0.60000ml of V14950 + 1.00000ml of V14949 + 8.40000ml of V14620 = Final Quantity: 10.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
719	8260 Working STD (BCM)-First source, 400PPM	VP134142	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/10/2025

FROM 1.00000ml of V14668 + 1.00000ml of V14671 + 1.00000ml of V14673 + 1.00000ml of V14675 + 16.00000ml of V14929 = Final
Quantity: 20.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/10/2025

FROM 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final
Quantity: 50.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1812	8260 Working Std(2-CVE)-100ppm	VP134151	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/10/2025

FROM 0.25000ml of V14639 + 24.75000ml 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	VP134200	06/10/2025	06/11/2025	John Carlone	None	None	Maresh Dadoda
								06/10/2025

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	VP134201	06/10/2025	06/11/2025	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 VP133887 + 0.01250ml of VP133991 + 0.01250ml of VP134149 = 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	VP134202	06/10/2025	06/11/2025	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 VP133887 + 0.01250ml of VP133991 + 0.01250ml of VP134149 = 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>
589	BFB TUNE CHECK	VP134259	06/11/2025	06/12/2025	John Carlone	None	None	Maresh Dadoda
06/12/2025								

FROM 39.98400ml of W3112 + 0.01600ml of VP133953 = 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>
645	20 PPB CCC, 624	VP134260	06/11/2025	06/12/2025	John Carlone	None	None	Maresh Dadoda
06/12/2025								

FROM 39.97000ml of W3112 + 0.00500ml of VP133887 + 0.00500ml of VP133991 + 0.00500ml of VP134149 + 0.00800ml of VP133251 = 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>
645	20 PPB CCC, 624	VP134261	06/11/2025	06/12/2025	John Carlone	None	None	Maresh Dadoda 06/12/2025
FROM 39.97000ml of W3112 + 0.00500ml of VP133887 + 0.00500ml of VP133991 + 0.00500ml of VP134149 + 0.00800ml of VP133251 = 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>
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP134263	06/11/2025	11/12/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 06/12/2025
FROM 0.60000ml of V13584 + 1.00000ml of V13583 + 18.40000ml of V14921 = 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>
589	BFB TUNE CHECK	VP134275	06/11/2025	06/12/2025	John Carlone	None	None	Maresh Dadoda
06/12/2025								

FROM 39.98400ml of W3112 + 0.01600ml of VP133953 = 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	VP134276	06/11/2025	06/12/2025	John Carlone	None	None	Maresh Dadoda
06/12/2025								

FROM 39.94450ml of W3112 + 0.00500ml of VP133174 + 0.00500ml of VP134142 + 0.00800ml of VP133935 + 0.01250ml of VP133887 + 0.01250ml of VP133991 + 0.01250ml of VP134149 = 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	VP134277	06/11/2025	06/12/2025	John Carlone	None	None	Maresh Dadoda
								06/12/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP133174 + 0.00500ml of VP134142 + 0.00800ml of VP133935 + 0.01250ml of VP133887 + 0.01250ml of VP133991 + 0.01250ml of VP134149 = 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>
637	5 PPB ICC, 624	VP134316	06/10/2025	06/11/2025	John Carlone	None	None	Amit Patel
								06/13/2025

FROM 39.96200ml of W3112 + 0.00800ml of VP133251 + 0.01000ml of VP133889 + 0.01000ml of VP133996 + 0.01000ml of VP134151 = 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>
639	20 PPB ICC, 624	VP134317	06/10/2025	06/11/2025	John Carlone	None	None	Amit Patel
								06/13/2025

FROM 39.97000ml of W3112 + 0.00500ml of VP133887 + 0.00500ml of VP133991 + 0.00500ml of VP134149 + 0.00800ml of VP133251 = 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>
640	50 PPB ICC, 624	VP134318	06/10/2025	06/11/2025	John Carlone	None	None	Amit Patel
								06/13/2025

FROM 39.95450ml of W3112 + 0.00800ml of VP133251 + 0.01250ml of VP133887 + 0.01250ml of VP133991 + 0.01250ml of VP134149 = 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>
642	100 PPB ICC, 624	VP134319	06/10/2025	06/11/2025	John Carlone	None	None	Amit Patel
								06/13/2025

FROM 39.91700ml of W3112 + 0.00800ml of VP133251 + 0.02500ml of VP133887 + 0.02500ml of VP133991 + 0.02500ml of VP134149 = 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>
643	150 PPB ICC, 624	VP134320	06/10/2025	06/11/2025	John Carlone	None	None	Amit Patel
								06/13/2025

FROM 39.87950ml of W3112 + 0.00800ml of VP133251 + 0.03750ml of VP133887 + 0.03750ml of VP133991 + 0.03750ml of VP134149 = 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>
644	20 PPB ICV, 624	VP134321	06/10/2025	06/11/2025	John Carlone	None	None	Amit Patel
FROM 39.97000ml of W3112 + 0.00500ml of VP133978 + 0.00500ml of VP133998 + 0.00500ml of VP134263 + 0.00800ml of VP133251 = Final Quantity: 40.000 ml								

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	11/15/2025	05/15/2025 / SAM	01/23/2023 / SAM	V13450

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	06/11/2025 / SAM	01/30/2023 / SAM	V13583

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	06/11/2025 / SAM	01/30/2023 / SAM	V13584

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	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0197644	09/30/2025	03/31/2025 / SAM	05/31/2023 / SAM	V13822

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A0193887	11/15/2025	05/15/2025 / SAM	07/24/2023 / SAM	V13920

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)	011624	09/30/2025	03/31/2025 / SAM	01/17/2024 / SAM	V14127

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)	021524	09/30/2025	03/31/2025 / SAM	02/20/2024 / SAM	V14180

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	A0205013	06/30/2025	05/15/2025 / SAM	08/15/2024 / SAM	V14427

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	05/12/2025 / SAM	08/15/2024 / SAM	V14432

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/20/2025	03/20/2025 / SAM	08/15/2024 / SAM	V14435

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	11/12/2025	05/12/2025 / SAM	09/17/2024 / SAM	V14503

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	11/12/2025	05/12/2025 / SAM	09/17/2024 / SAM	V14504

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	11/12/2025	05/12/2025 / SAM	09/18/2024 / SAM	V14525

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	11/12/2025	05/12/2025 / SAM	09/18/2024 / SAM	V14526

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555584 / Custom Standard, CLP VOA SurrogateStd [CS 5179-4]	A0219012	01/02/2026	01/02/2025 / SAM	11/18/2024 / SAM	V14580

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	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)	22L0562016	10/25/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14620

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	07/13/2025	01/13/2025 / SAM	11/26/2024 / SAM	V14624

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

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

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	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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14711

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	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14717

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	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14718

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	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14721

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	11/13/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14749

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	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14750

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	A0220563	06/30/2026	05/15/2025 / SAM	01/08/2025 / SAM	V14793

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	11/12/2025	05/12/2025 / SAM	01/08/2025 / SAM	V14811

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	06/30/2026	05/12/2025 / SAM	01/08/2025 / SAM	V14812

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 #
Restek	555583 / Custom Standard, CLP VOA Internal Std [CS 5179-3]	A0223136	03/12/2026	03/12/2025 / SAM	03/12/2025 / SAM	V14885

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	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)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14944

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14945

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14946

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14947

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051725	06/17/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14949

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)	051725	06/17/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14950

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 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

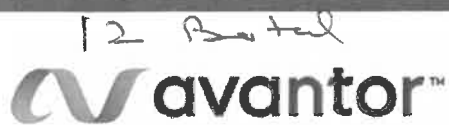
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



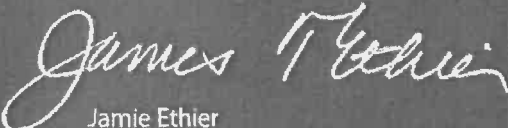
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

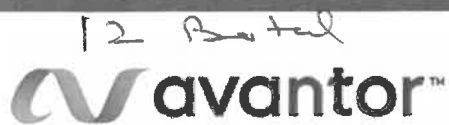
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality



Certified Reference Material CRM

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CERTIFIED WEIGHT REPORT

Part Number: **95319**
Lot Number: **011624**
Description: **Revised Additions Mix**

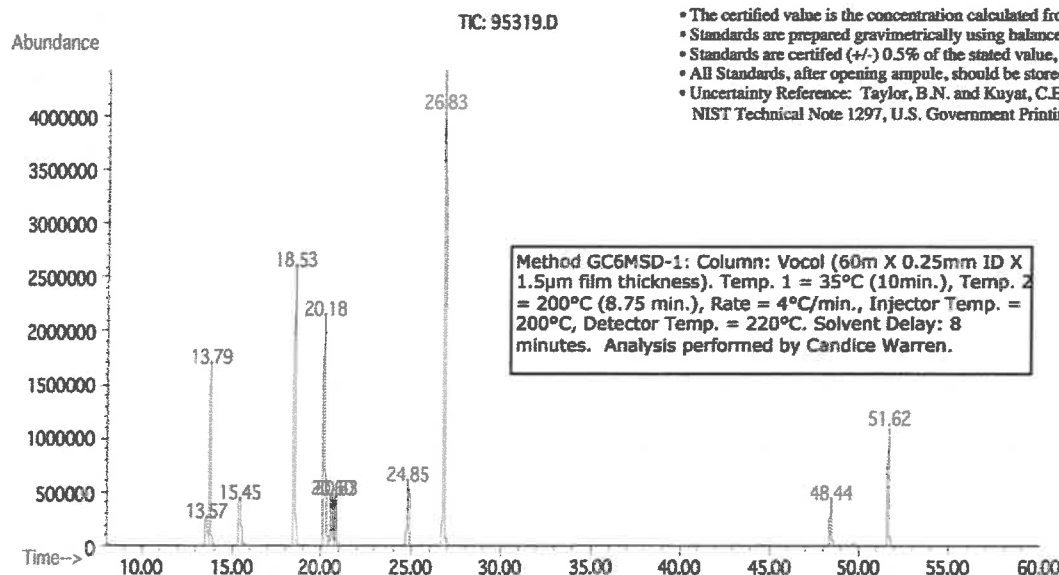
Solvent(s): **Methanol**
Lot#: **EH471-US**

Expiration Date: **011627**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **Varied**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **100.0**
5E-05 Balance Uncertainty
0.021 Flask Uncertainty

		011624
Formulated By:	Prashant Chauhan	DATE
		011624
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. Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	ori-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	ori-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	300 ppm (1050mg/m3/8H)	ori-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8H)	ori-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8H)(skin)	ori-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	ori-gpg 4970mg/kg
7. Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	ori-mus 2250mg/kg
8. Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	ori-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	ori-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8H)	ori-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	ori-rat 6408mg/kg



- 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).

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62



CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021524**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: BUTB

Solvent(s): **Methanol**
Lot#: **EG359-USQ12**

		021524
Formulated By:	Mario Luis	DATE
		021524
Reviewed By:	Pedro L. Rentes	DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

														SDS Information		
														(Solvent Safety Info. On Attached pg.)		
Compound	(RM#)	Lot	Dr.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	CAS#	OSHA PEL (TWA)	LD50
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)			
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20022	2001.5	8.1	75-05-8	40 ppm (70mg/m3/8h)	or-rat 2450mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102398	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20222	2001.5	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	0.20020	2001.3	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21060	2000.2	8.5	1478-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0466)	MKBP8041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20734	2000.3	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	JK18CASA000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20231	2002.4	8.2	97-83-2	N/A	or-rat 14800mg/kg
8. Iodomethane	(0469)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20118	2001.2	8.1	74-88-4	5 ppm (28mg/m3/8h) (skin)	or-rat 76mg/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 9450mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20209	2000.2	8.2	128-96-7	1 ppm (3mg/m3/8h) (skin)	or-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	98-33-3	10 ppm (35mg/m3/8h) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20030	2000.5	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	0.20230	2002.3	8.2	98-95-3	1 ppm (5mg/m3/8h) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20670	2001.0	8.3	79-45-9	10 ppm (35mg/m3/8h)	or-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20415	2000.2	8.3	78-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20210	2000.3	8.2	78-13-1	1000 ppm (7600mg/m3/8h)	or-rat 43mg/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-60-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 800mg/kg
22. 1,1-Dichloroethane	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-36-4	1 ppm (4mg/m3/8h)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.8mg/m3/8h)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-05-3	N/A	or-rat 106mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	894-20-7	N/A	N/A
29. Tetrachloroethane	95321	020724	0.10	10.00	20001.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8h) (final)	or-rat 262mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8h)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-9	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromooethane	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 870mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8h)	or-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	ure-mus 3600mg/kg
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8h)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8h) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8h) (skin)	or-rat 836mg/kg
43. Trichloroethane	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-8	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	108-88-1	N/A	or-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48. Ethyl 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
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-8	N/A	or-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8h)	or-rat 490mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	or-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1300mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	95-63-6	N/A	or-rat 50mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	or-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8h)	or-rat 50mg/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	or-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8h)	or-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8h)	or-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	105-43-4	N/A	

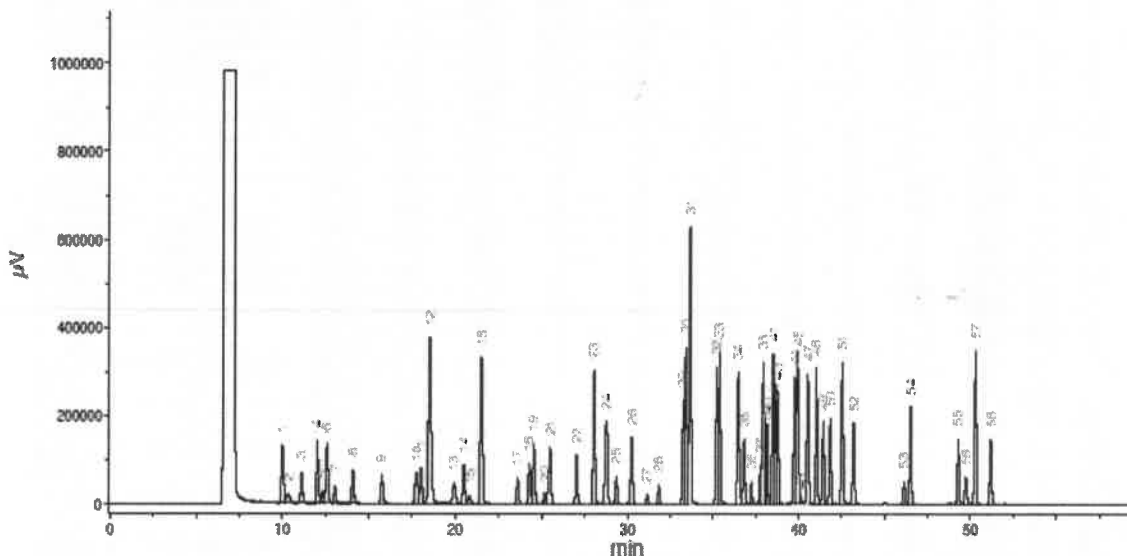


Run 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocool 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.34
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	22.58
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,2-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.18
28	1,2-Dibromopropane	31.84
29	Chlorobenzene	33.39
30	Ethylbenzene/1,1,1,2-tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	33.72
33	Styrene	33.99
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.32
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.10
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

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Ree 03117/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

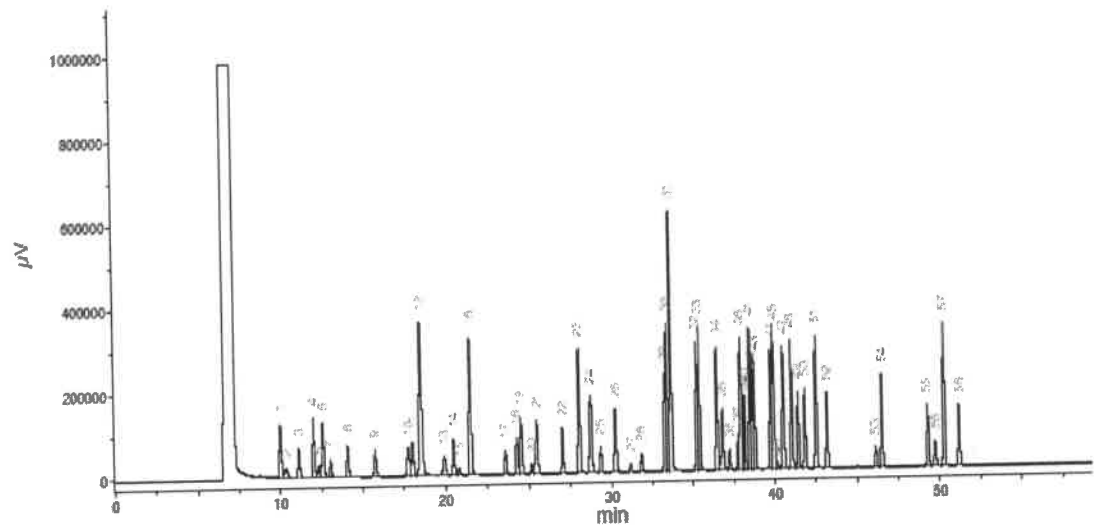
Compound	(KME)	Lot	DR	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
														(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWL)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21056	0.21069	2001.1	8.5	1478-11-6	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP9041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 14800mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 3460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 120mg/kg
11. Methyl acrylate	(0755)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 787mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	HG02JXK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Pentachloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18990	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	78-13-1	1000 ppm (7600mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 915mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	158-59-2	N/A	or-rat 848mg/kg
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	158-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethane	35171	101623	0.05	5.00	40003.2	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20004.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 106mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	or-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	N/A
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	86-12-8	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-83-4	20 ppm (8H)	or-rat 108mg/kg
33. 1,2-Dichloropropane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg
34. 1,2-Dichloroethane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1847mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	or-rat 3600mg/kg
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10081-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10081-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H) (skin)	or-rat 936mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	98-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg
45. Benzene	35162	050823	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	or-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	N/A	or-mus 1390mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	N/A	or-rat 5000mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	109-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-mus 1060mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-46-7	75 ppm (450mg/m3/8H)	or-r



Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.21
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	Hexamethylcyclotriphosphorotriazine/Hexyl acetate/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-Pentopropane	25.46
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	1,1,2,2-Tetrachloroethane	37.23
37	1,2,2-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.62
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Trichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water
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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		
														(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	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	1478-11-6	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP9041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 14800mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 3460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 120mg/kg
11. Methyl acrylate	(0755)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 787mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	HG02JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Pentachloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18990	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	78-13-1	1000 ppm (7600mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 915mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	or-rat 848mg/kg
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethane	35171	101623	0.05	5.00	40003.2	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20004.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 106mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	or-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	N/A
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	86-12-8	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-83-4	20 ppm (8H)	or-rat 108mg/kg
33. 1,2-Dichloropropane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg
34. 1,2-Dichloroethane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1847mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	or-rat 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H) (skin)	or-rat 936mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg
45. Benzene	35162	050823	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	or-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	N/A	or-mus 1390mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	N/A	or-rat 5000mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	109-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-mus 1060mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-46-7	75 ppm (450mg/m3/8H)	or-rat

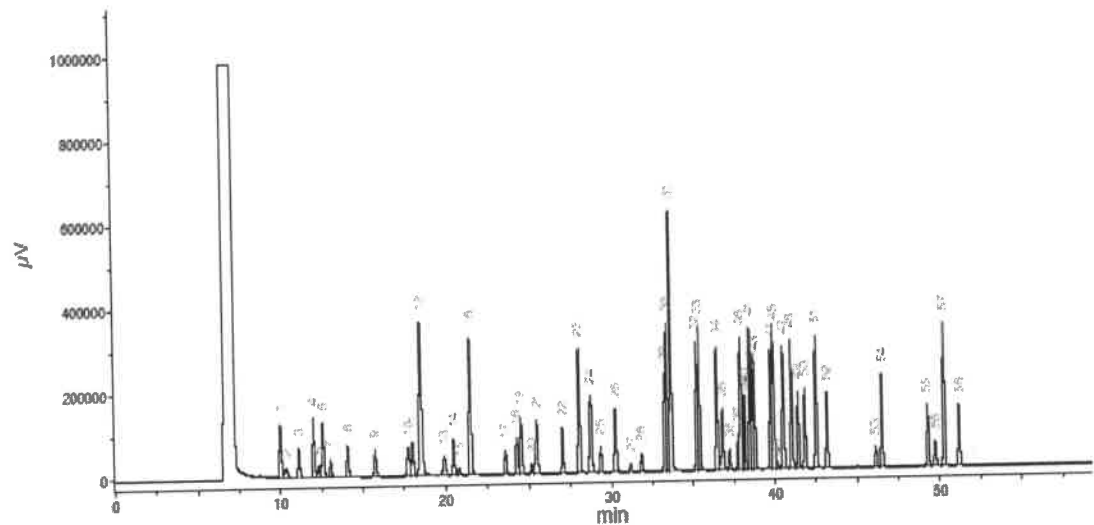


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetone	12.00
5	Isodimethane	12.21
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	Methyl methacrylate/Methyl acrylate/Chloroform	18.49
13	Isobutene/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.46
21	Dibromomethane/2,2-Dichloropropane	27.07
22	cis-1,2-Dichloroethane	28.73
23	Toluene	29.34
24	Ethyl methacrylate/Trans-1,2-Dichloropropane	29.34
25	1,1,2-Trichloroethane	30.24
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	31.85
28	1,2-Dibromomethane	33.85
29	Chlorobenzene	35.33
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	35.33
31	m-Xylene/p-Xylene	35.33
32	o-Xylene	35.33
33	Styrene	35.33
34	Isopropylbenzene/Bromobenzene	35.33
35	cis-1,4-Dichloro-3-butene	36.40
36	1,1,2,2-Tetrachloroethane	37.22
37	1,2,2-Trichloropropane	37.22
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.62
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Perchloroethane	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	42.52
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trichlorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	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
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			Signal Word: DANGER
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Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol METHYL ALCOHOL	67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption	ingestion and inhalation.
Personal protective equipment	Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing.	Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM

Dec 09/17/24

2 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

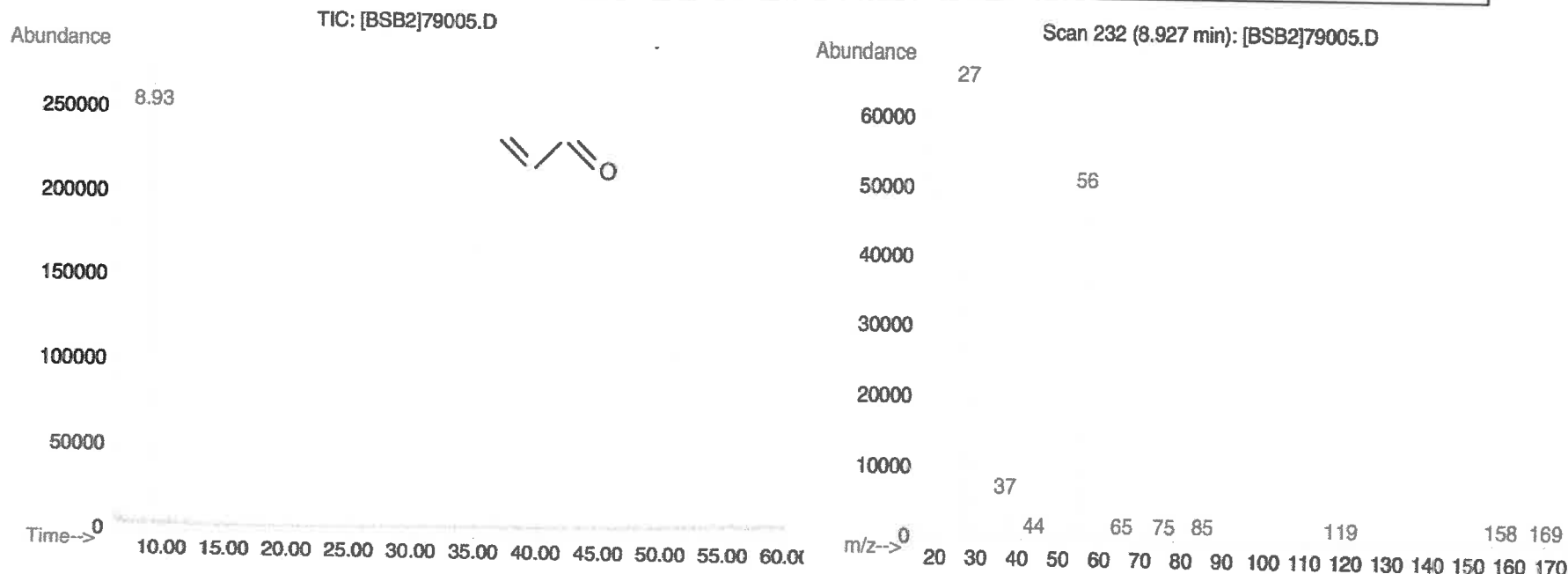
CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **091424**
Description: **Acrolein**Solvent(s):
Water Lot#
072324QExpiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTBWeight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Justin Dippold</i>	
Formulated By: Justin Dippold	091424 DATE
<i>Pedro L. Rentas</i>	
Reviewed By: Pedro L. Rentas	091424 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM

Dec 09/17/24

2 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

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072324QExpiration Date: 101424
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Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTBWeight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Justin Dippold</i>	
Formulated By: Justin Dippold	091424 DATE
<i>Pedro L. Rentas</i>	
Reviewed By: Pedro L. Rentas	091424 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

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

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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EB679-US

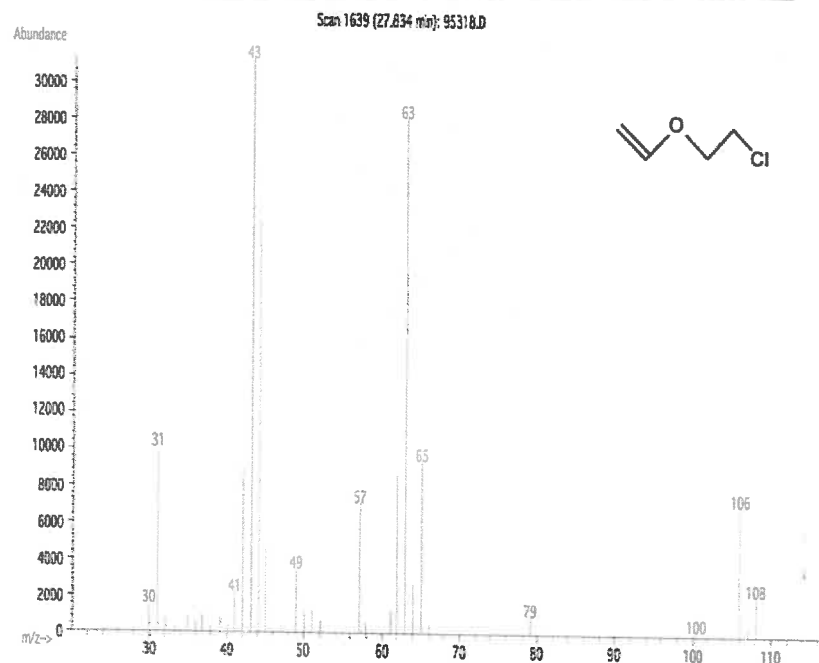
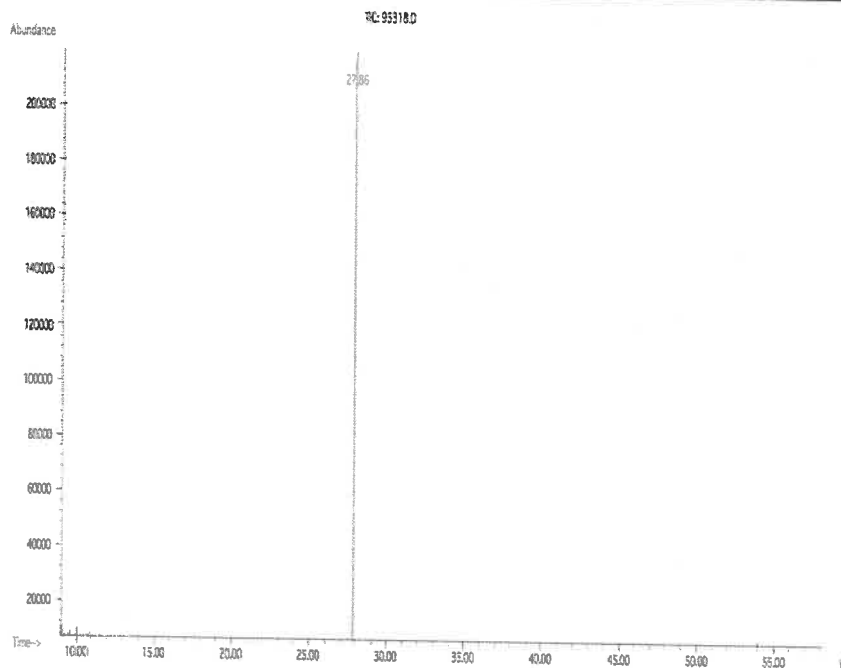
Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 50.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Eli Aliaga</i>		111722
Formulated By:	Eli Aliaga	DATE
<i>Pedro L. Rentas</i>		111722
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	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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CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EB679-US

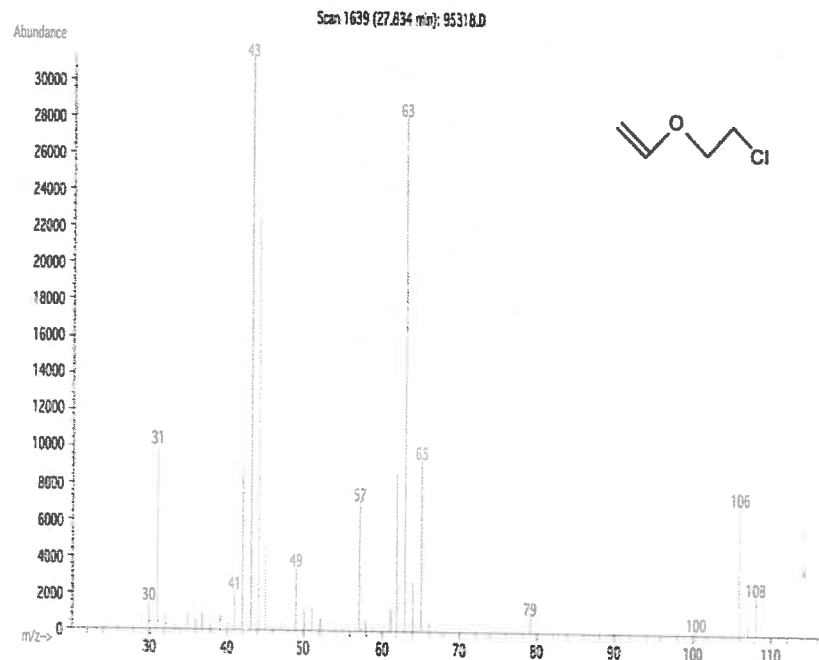
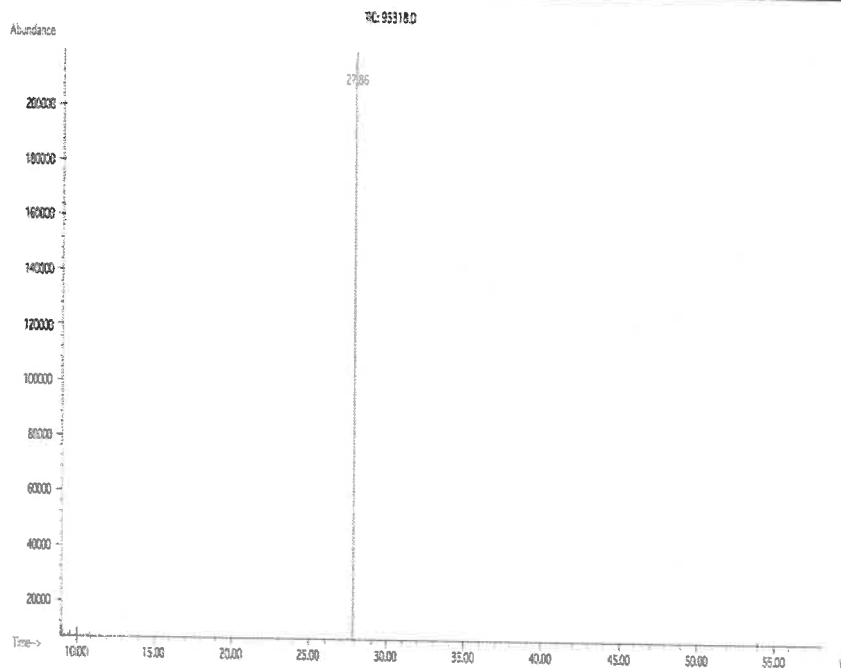
Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 50.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Eli Aliaga</i>		111722
Formulated By:	Eli Aliaga	DATE
<i>Pedro L. Rentas</i>		111722
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	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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Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

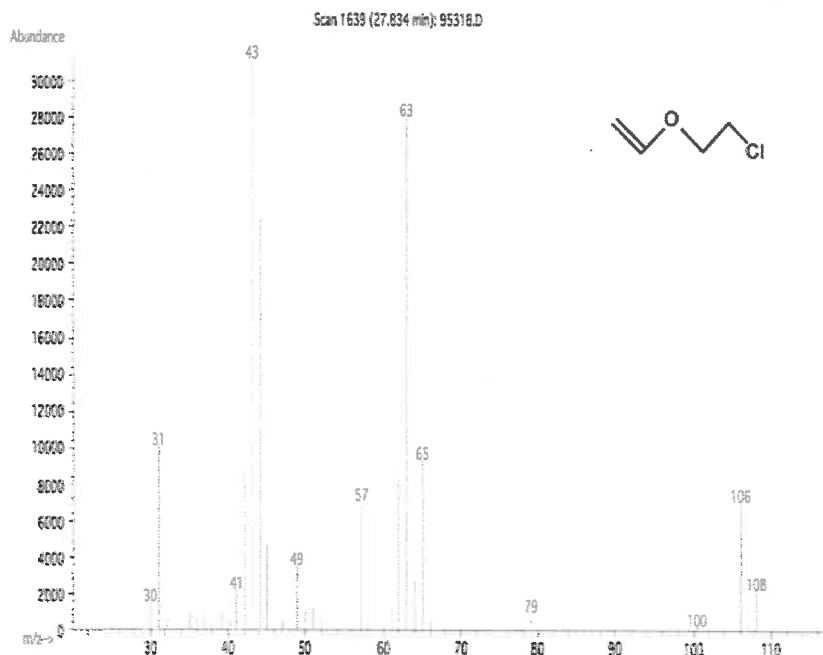
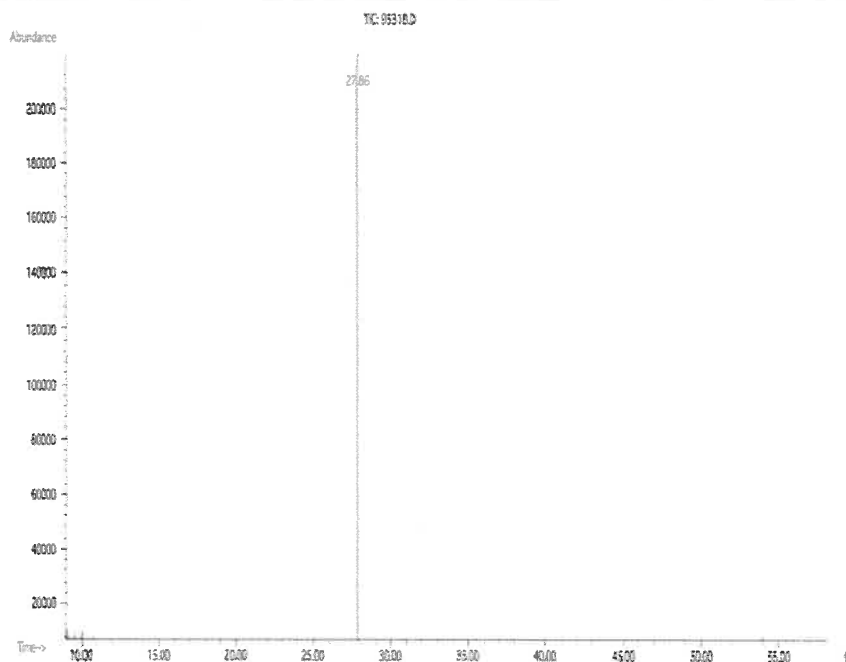
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp. = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



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Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

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.		

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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
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Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

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LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
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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**

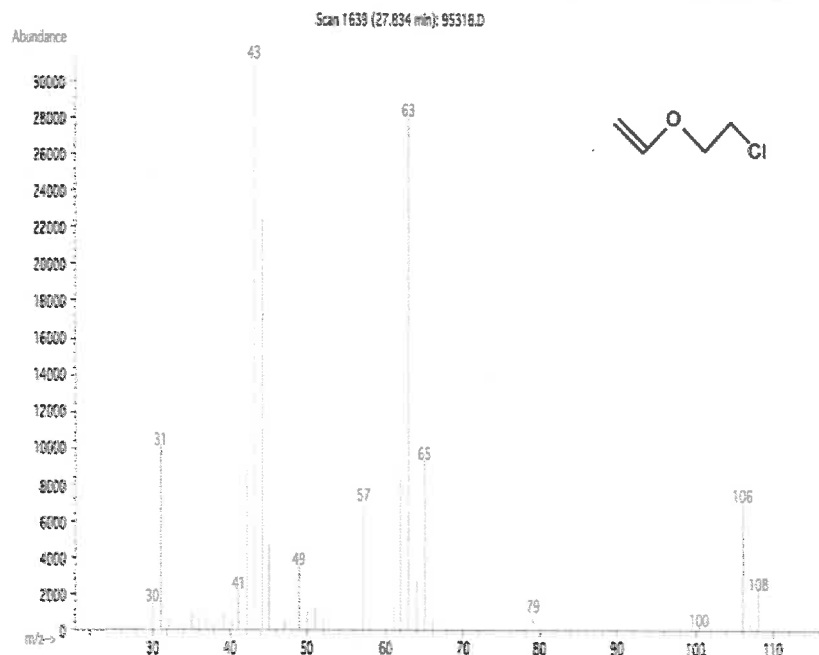
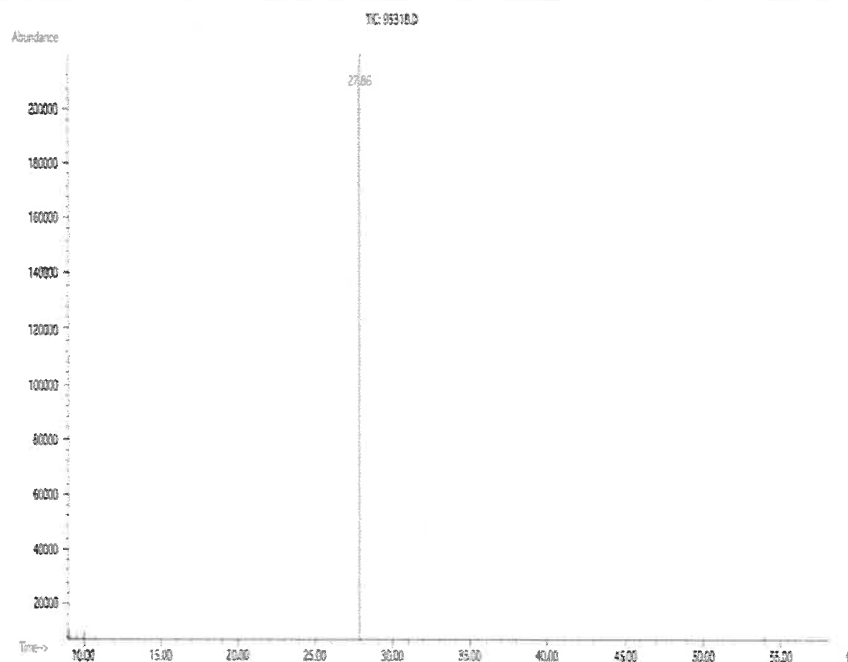
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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.,
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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

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

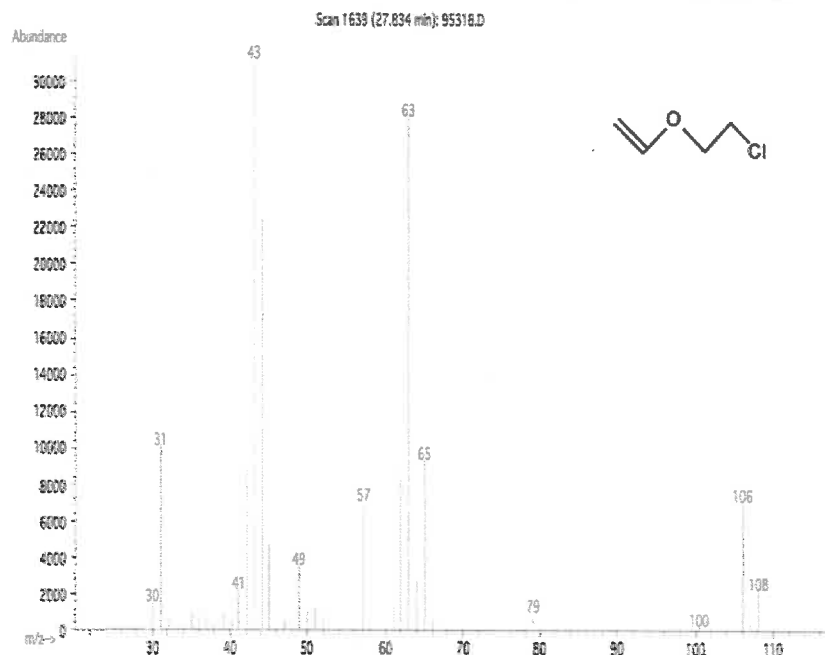
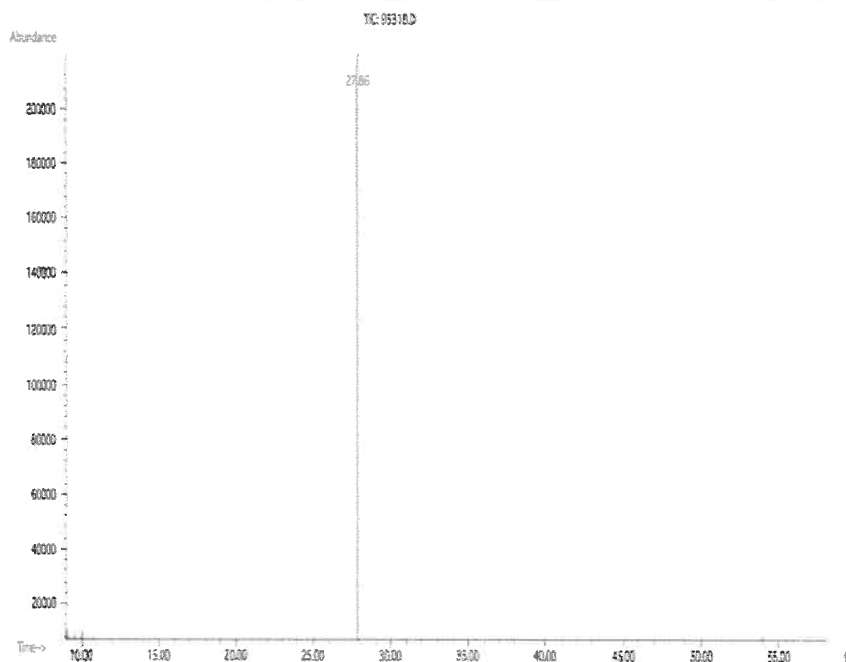
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp. = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

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	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

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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.
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If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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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
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Potential for skin absorption, ingestion and inhalation.		
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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
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Section XIII. DISPOSAL CONSIDERATIONS

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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
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Lot#
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Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

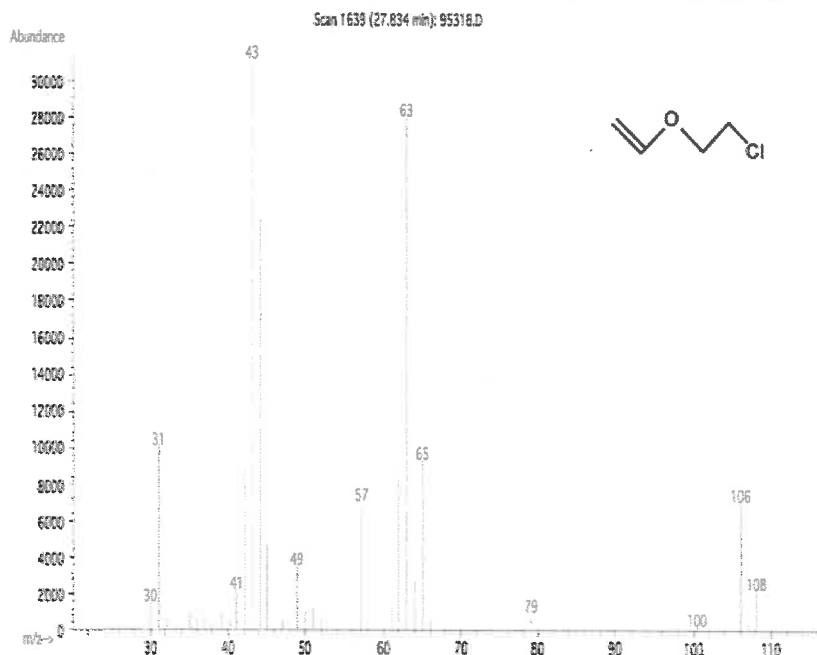
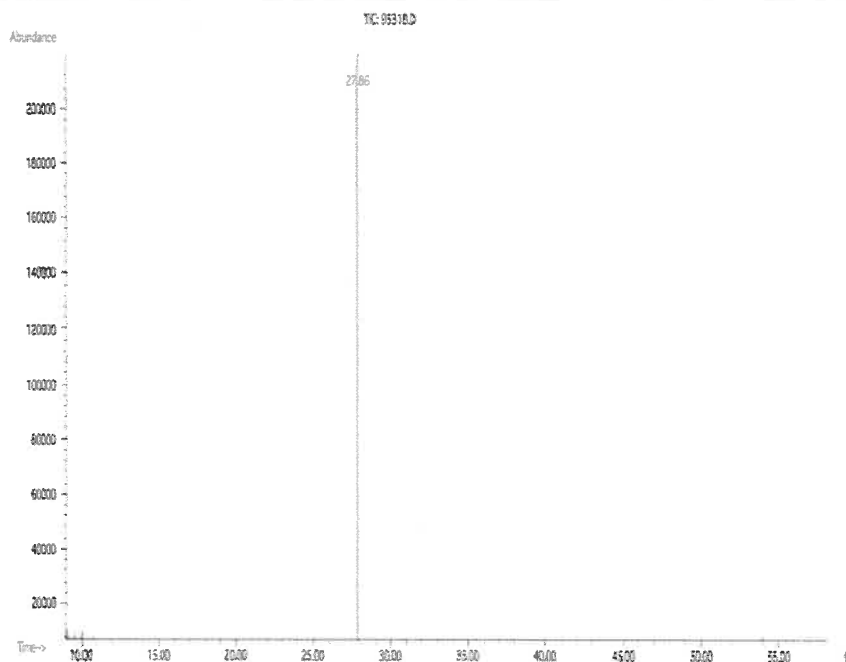
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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.)		
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Components (Specific Chemical Identity; Common Name(s))		% (optional)
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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0191703
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 : November 30, 2025 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	tert-Butanol (TBA) CAS # 75-65-0 Purity 99% (Lot 101619K21F-1)	50,122.0 µg/mL	+/- 293.4753 µg/mL Gravimetric +/- 1,073.6797 µg/mL Unstressed +/- 1,104.8612 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

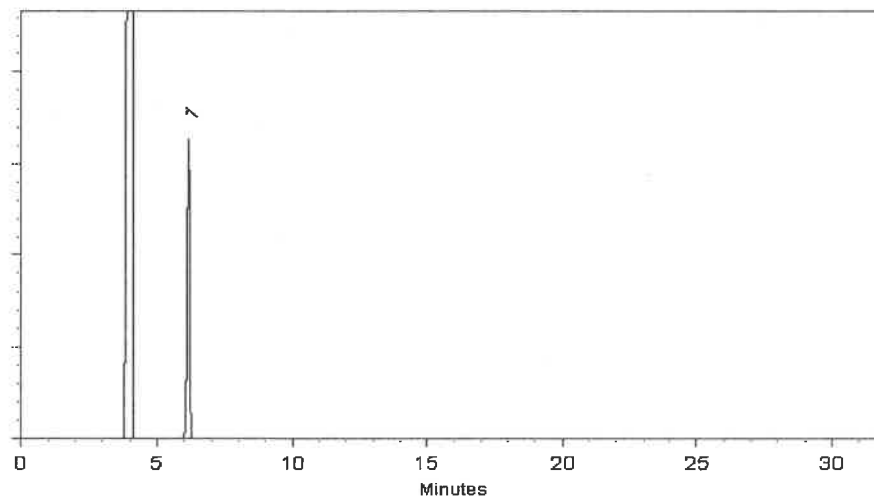
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Det. Temp:

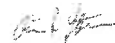
250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 15-Nov-2022

Balance: 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-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 combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

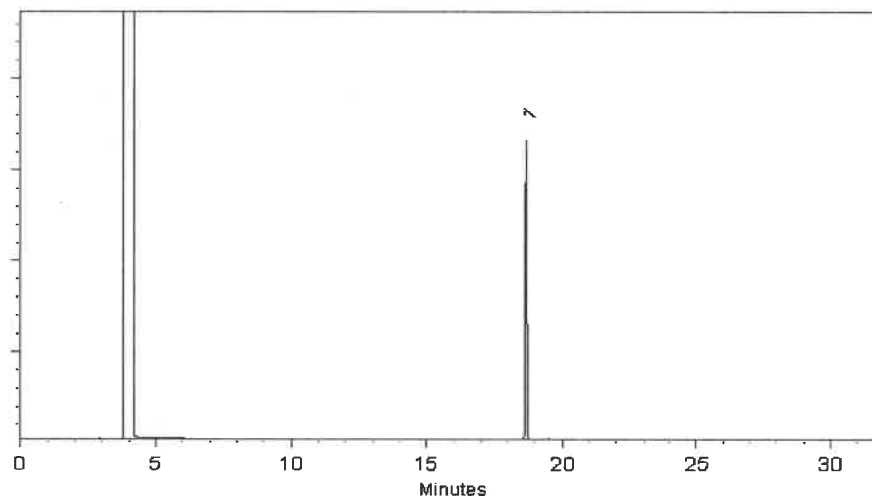
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 Lot No.: A0193887
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 : April 30, 2026 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,006.5 µg/mL	+/- 173.0015
2	2-Butanone (MEK)	78-93-3	SHBN9536	99%	5,008.5 µg/mL	+/- 173.0706
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,000.3 µg/mL	+/- 172.7884
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,001.7 µg/mL	+/- 172.8345

* 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:

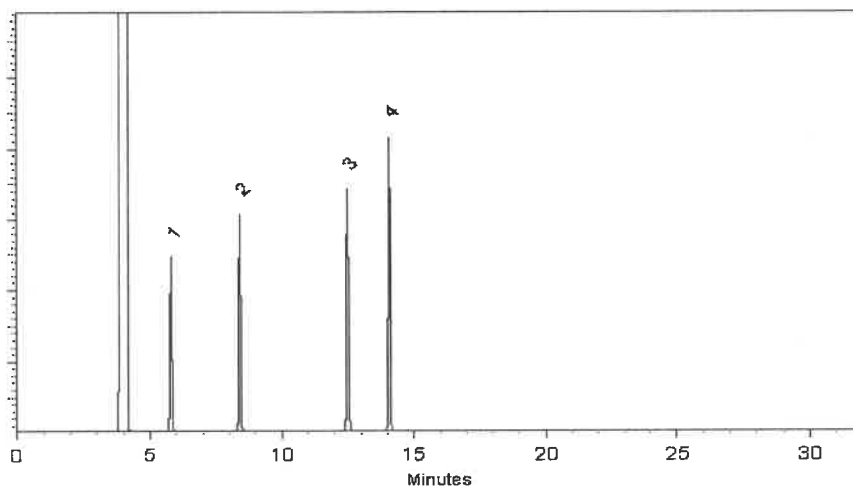
FID

Split Vent:

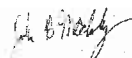
40 ml/min

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.


Josh McCloskey - Operations Technician I

Date Mixed: 24-Jan-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 27-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023

Balance: 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0197644
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 : January 31, 2030 **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	00012554	99%	2,001.6 µg/mL	+/- 112.7159
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,002.0 µg/mL	+/- 112.7840
3	Vinyl chloride	75-01-4	00015559	99%	2,002.2 µg/mL	+/- 112.6713
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8861
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.5990
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	1,999.2 µg/mL	+/- 112.4861

* 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:

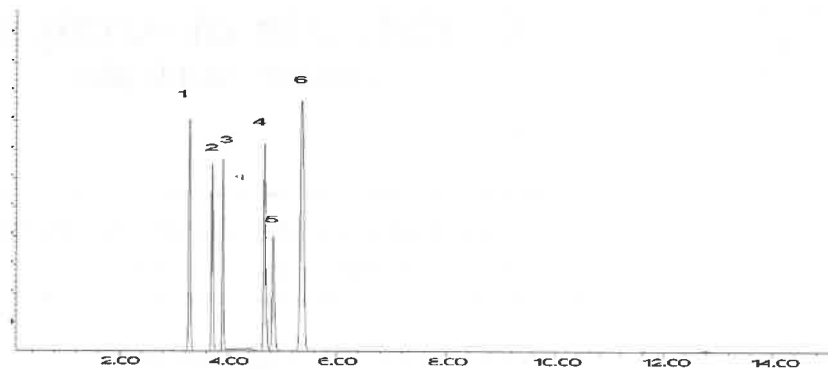
MSD

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.


Brittany Federinko - Operations Tech I

Date Mixed: 02-May-2023

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-May-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0205013

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 : June 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%	2,012.7 µg/mL	+/- 69.5670
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,017.5 µg/mL	+/- 69.7338
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,020.0 µg/mL	+/- 69.8205
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,018.7 µg/mL	+/- 69.7744
5	Propyl acetate	109-60-4	KLOBM	99%	2,012.0 µg/mL	+/- 69.5439
6	Butyl acetate	123-86-4	SHBP6314	99%	2,020.0 µg/mL	+/- 69.8205
7	Amyl acetate	628-63-7	41325/1	97%	2,019.5 µg/mL	+/- 69.8046

* 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:

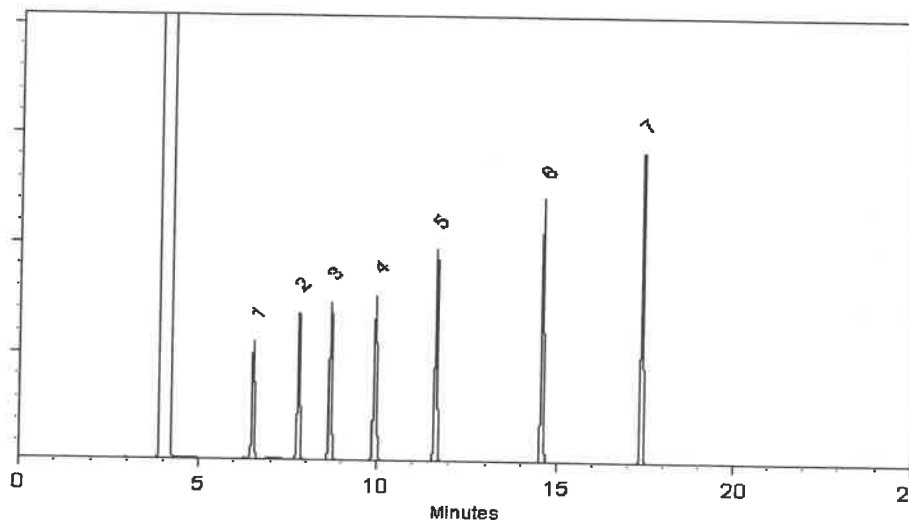
FID

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.


Brittany Federinko - Operations Tech I

Date Mixed: 04-Dec-2023 Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Dec-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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.)

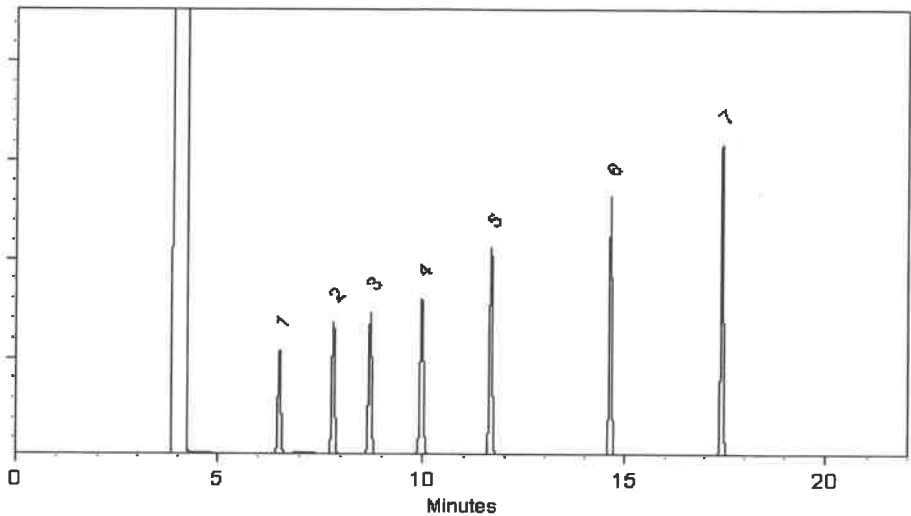
Inj. Temp:
200°C

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.)

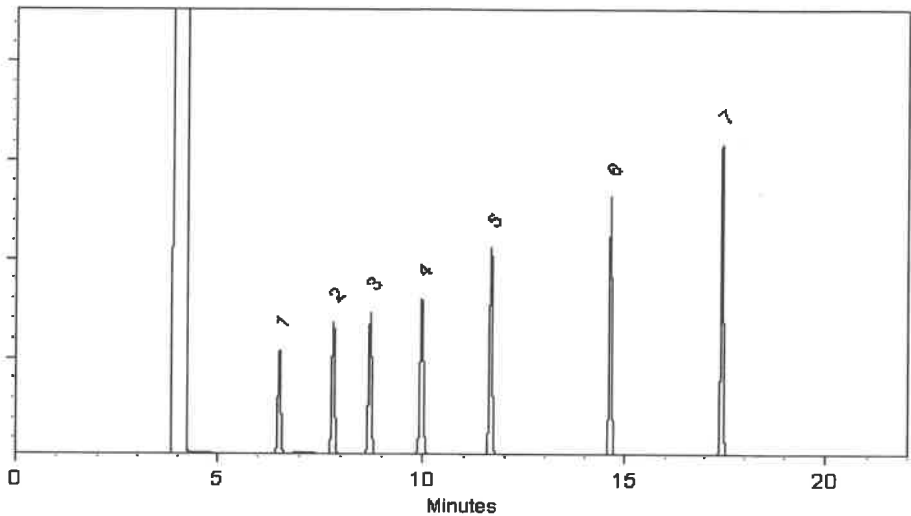
Inj. Temp:
200°C

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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

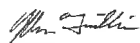
Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%


John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024

Balance: 1127510105

REVISED
By Restek Review of 11-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

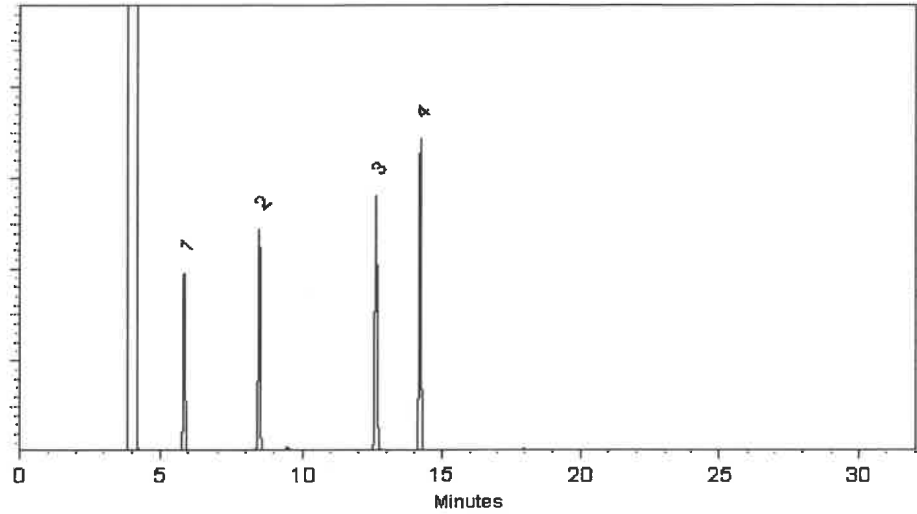
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

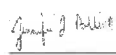


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:

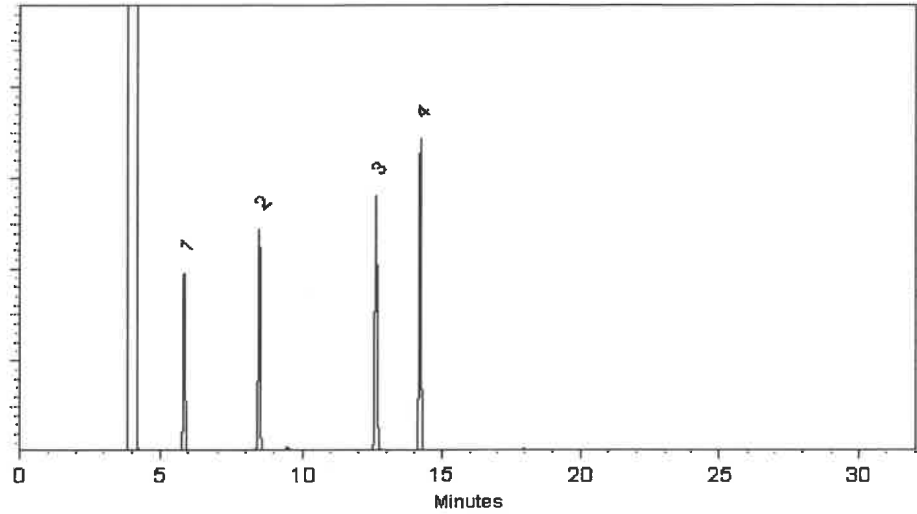
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

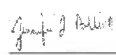


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

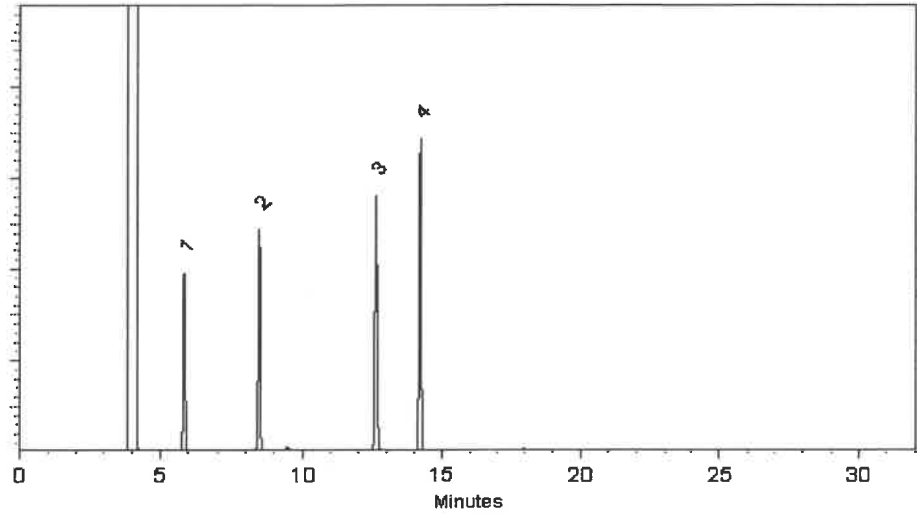
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

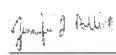


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:

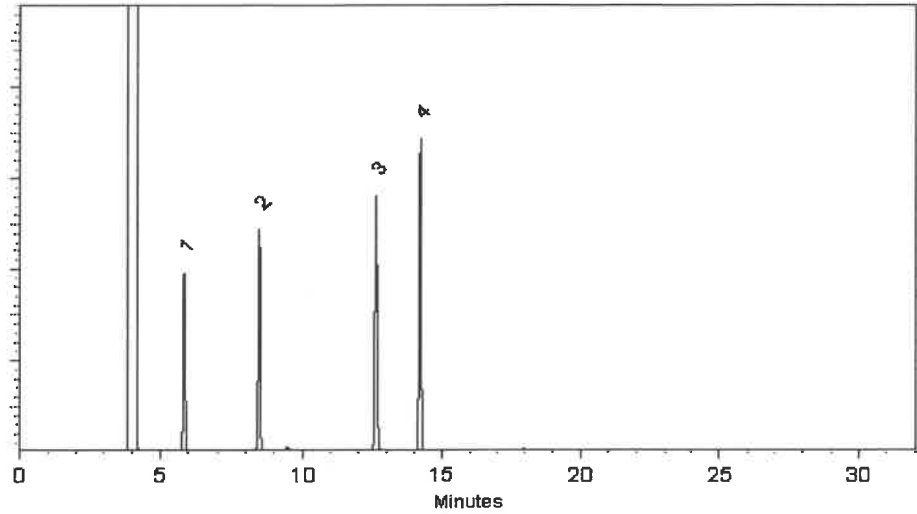
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

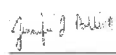


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

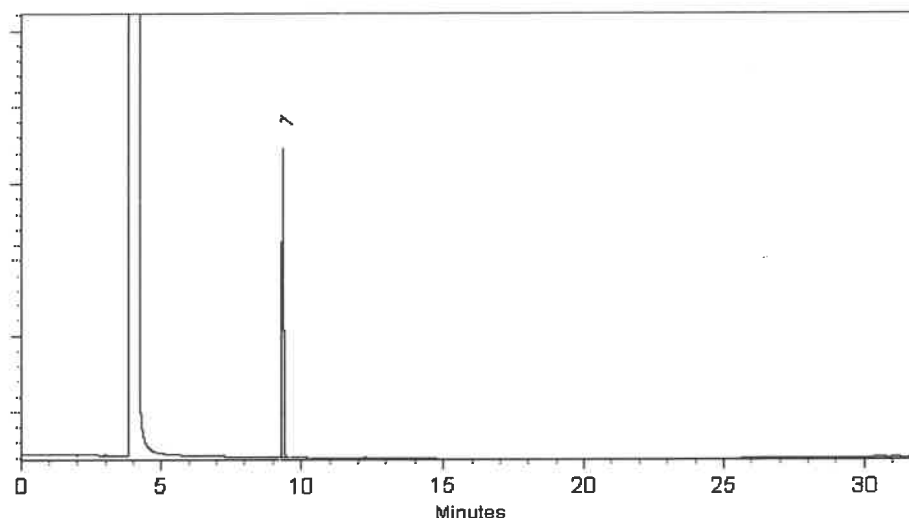
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

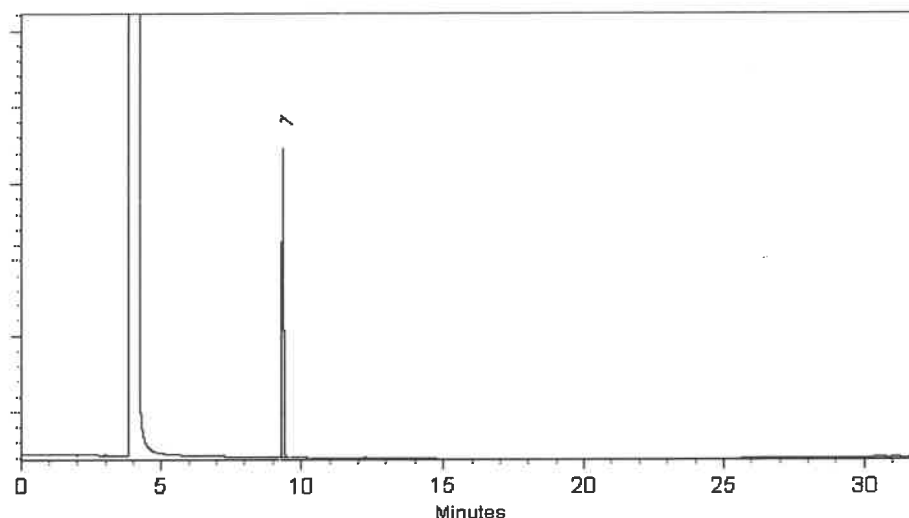
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

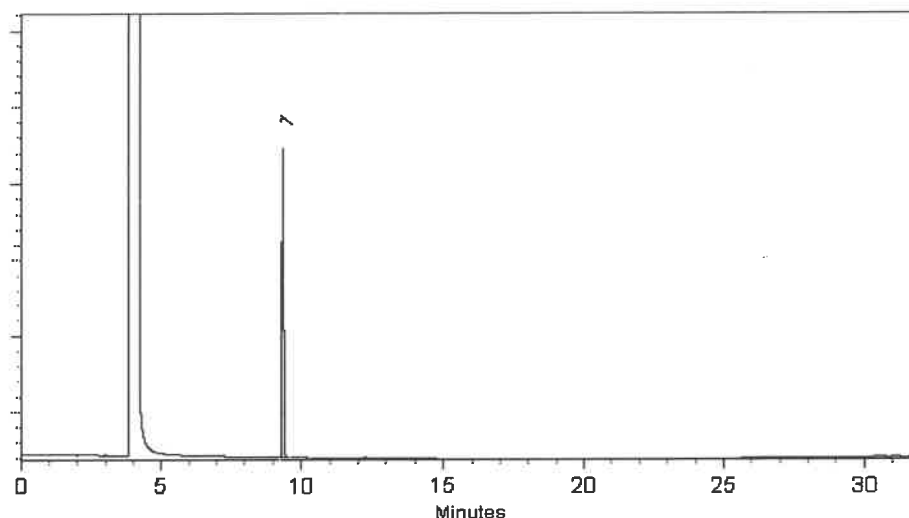
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

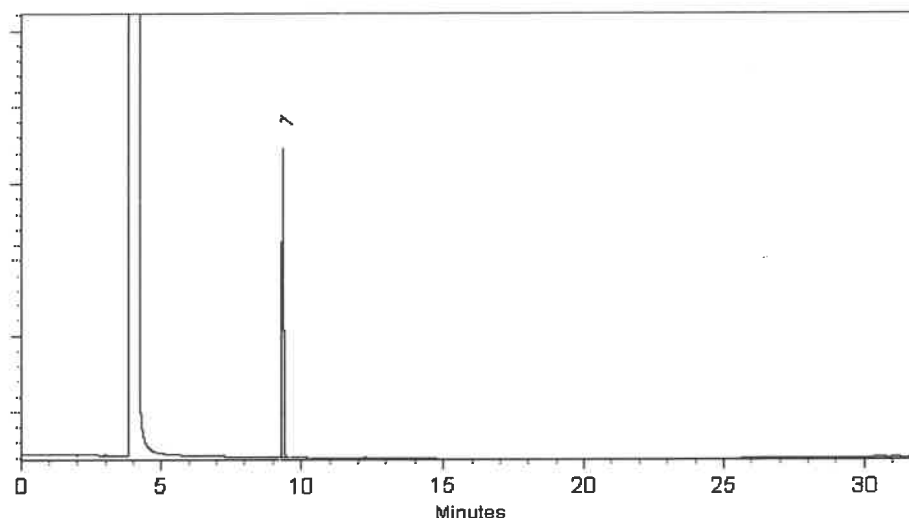
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

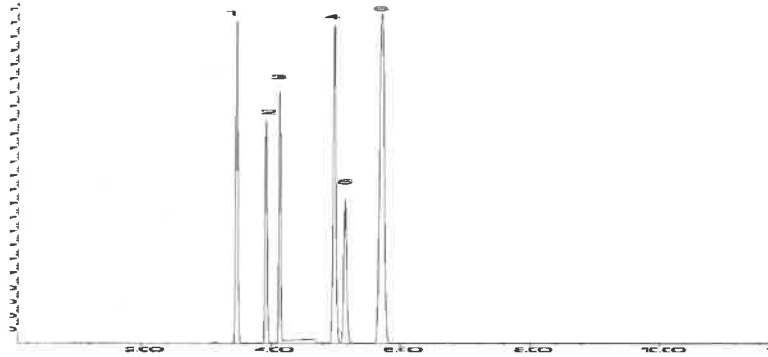
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

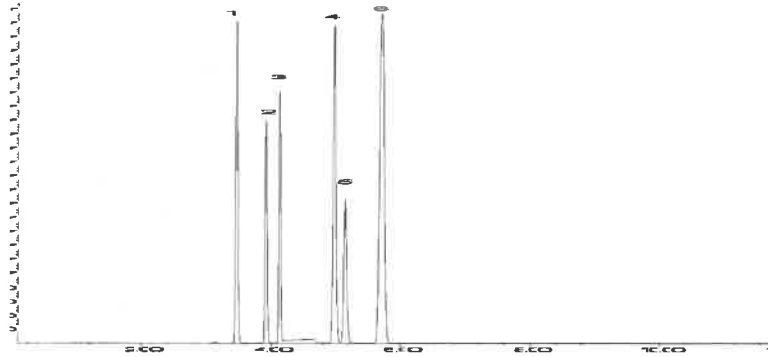
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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✓ 14842 to 14846



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : October 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

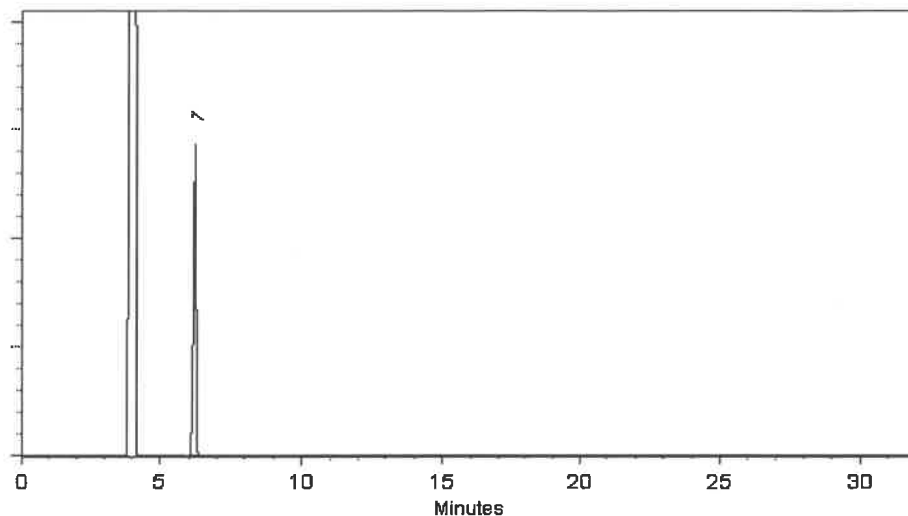
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A. O. E.
Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024

Balance Serial # B251644995

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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. : 555584 **Lot No.:** A0219012

Description : Custom CLP VOA Surrogate Standard Mix

Custom CLP VOA Surrogate Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

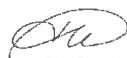
Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-33313	99%	25,228.0 µg/mL	+/- 1,428.7919
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,196.0 µg/mL	+/- 1,426.9795
3	Toluene-d8	2037-26-5	PR-34141	99%	25,228.0 µg/mL	+/- 1,428.7919

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%


Jess Hoy - Operations Tech I

Date Mixed: 12-Nov-2024 **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:

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2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

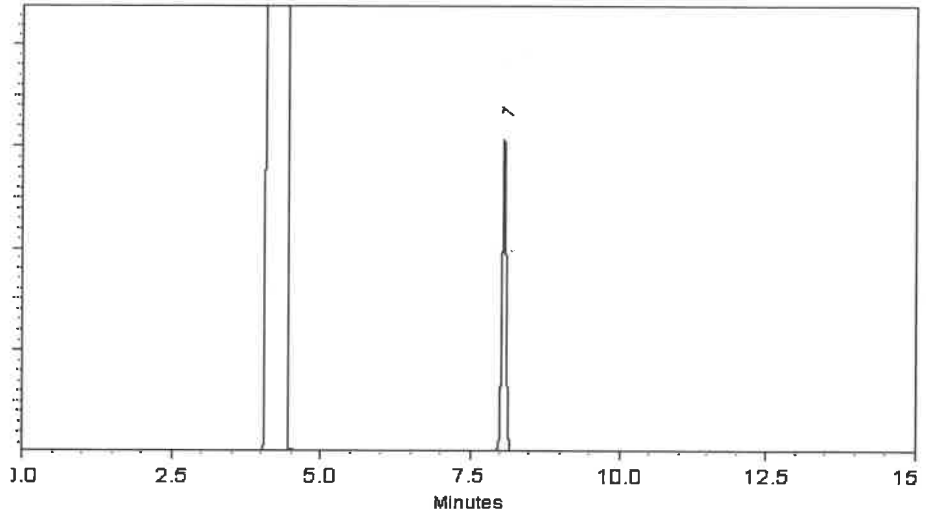
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

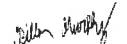


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105


Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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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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Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

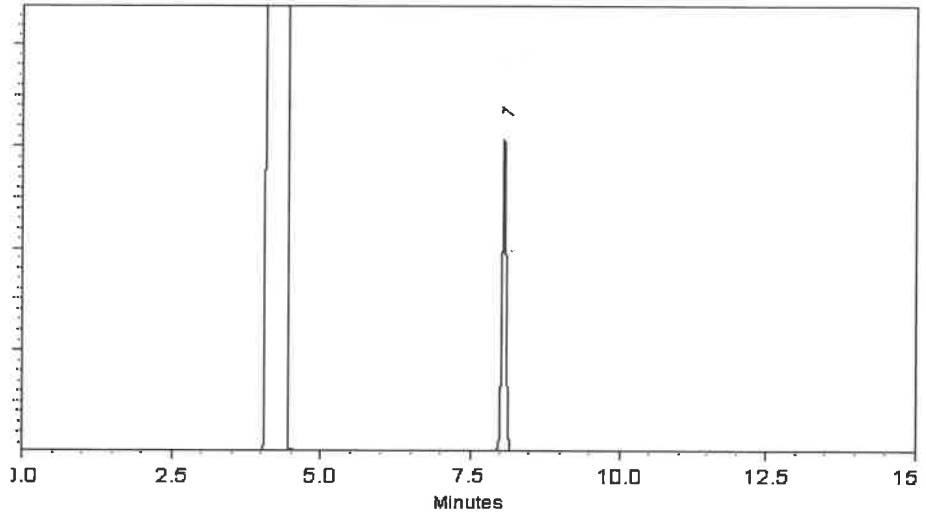
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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

V14793 to 14802



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-FL **Lot No.:** A0220563
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,060.0 µg/mL	+/- 278.5905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

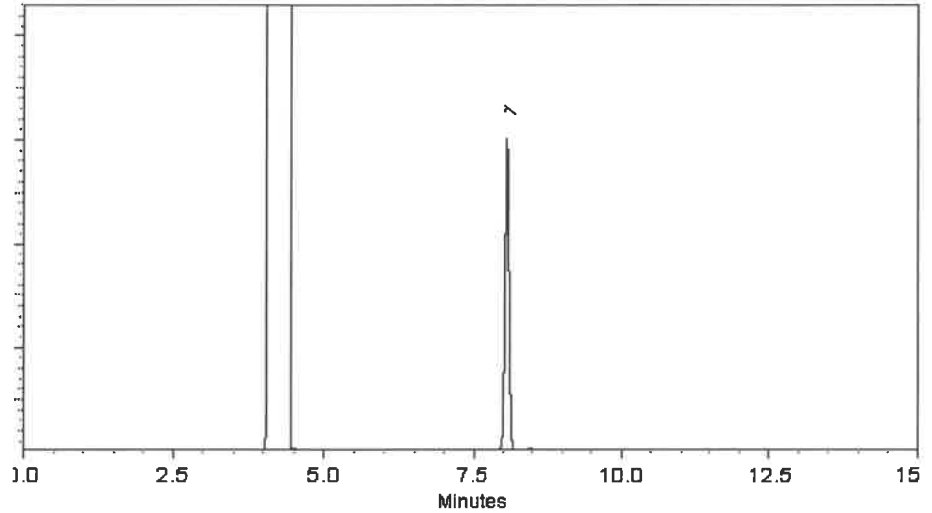
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

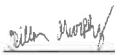
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckal - Mix Technician

Date Mixed: 30-Dec-2024 Balance Serial # B345965662


Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pothos at 7:11 am, Jan 03, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

REC 03/12/25
10 vials
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
gravimetric

V14885-to-V14894



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. : 555583 Lot No.: A0223136
Description : Custom CLP VOA Internal Standard Mix
Custom CLP VOA Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : March 31, 2028 Storage: 0°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-Difluorobenzene	540-36-3	MKCS8657	99%	25,024.0 µg/mL	+/- 1,417.2383
2	Bromochloromethane	74-97-5	S241017RSR	99%	25,060.0 µg/mL	+/- 1,419.2772
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,048.4 µg/mL	+/- 1,418.6202

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Penelope Riglin - Operations Tech I

Date Mixed: 10-Mar-2025

Balance: 1128342314

REVIEWED
By: [Signature]

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rev 05/09/25
Avantor™



V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rev 05/09/25
Avantor™



V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production



Certified Reference Material CRM

see 05/21/25



CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **051925**
Description: **Acrolein**

Solvent(s):
Water

Lot#
041725Q

5.019

114944-114948

		051925
Formulated By:	Lawrence Barry	DATE
		051925
Reviewed By:	Pedro L. Rentas	DATE

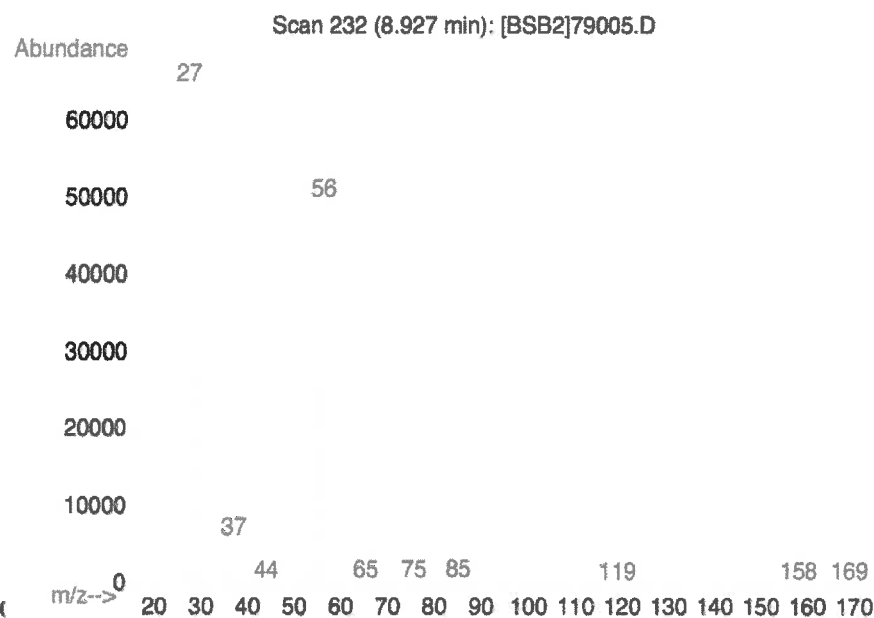
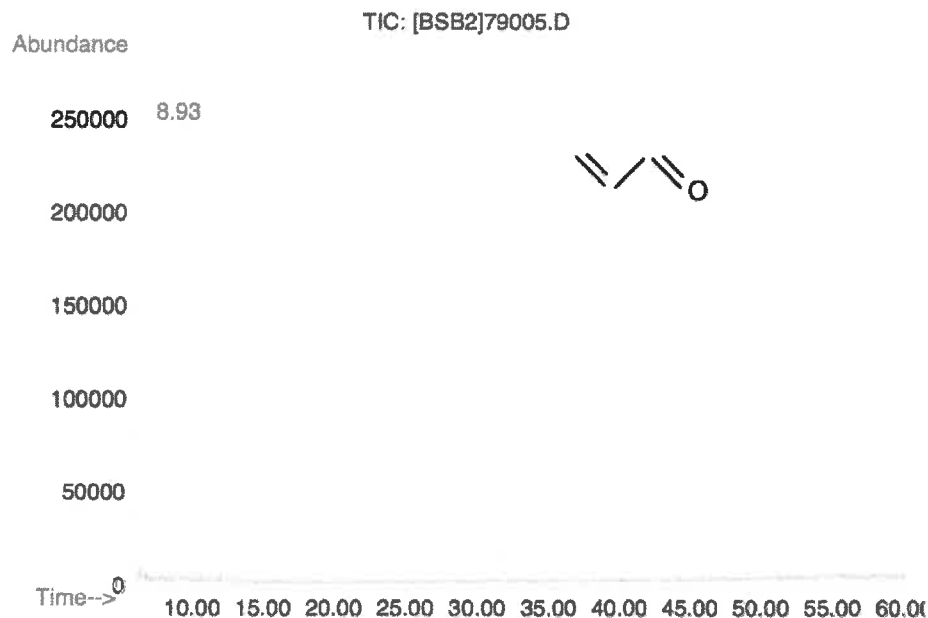
Expiration Date: **061925**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **5000**
NIST Test ID#: **6UTB**

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): **10.0**

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	0.05170	5004.1	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 by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
 - Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 - All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 - Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
- Rev 1.0, 2/25/2025



Certified Reference Material CRM

see 05/21/25



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 051925
Description: Acrolein

Solvent(s): Water
Lot#: 041725Q

5.019

114944-114948

		051925
Formulated By:	Lawrence Barry	DATE
		051925
Reviewed By:	Pedro L. Rentas	DATE

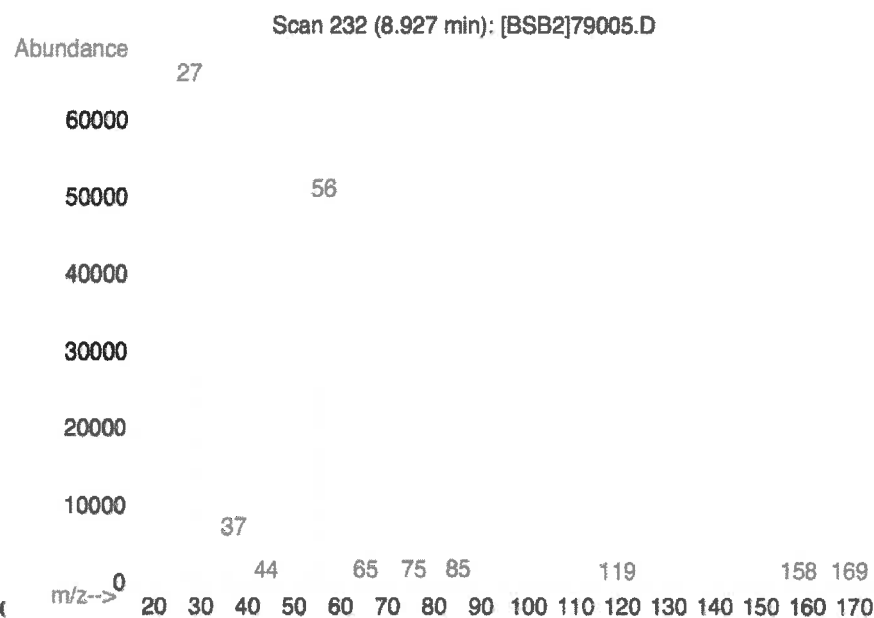
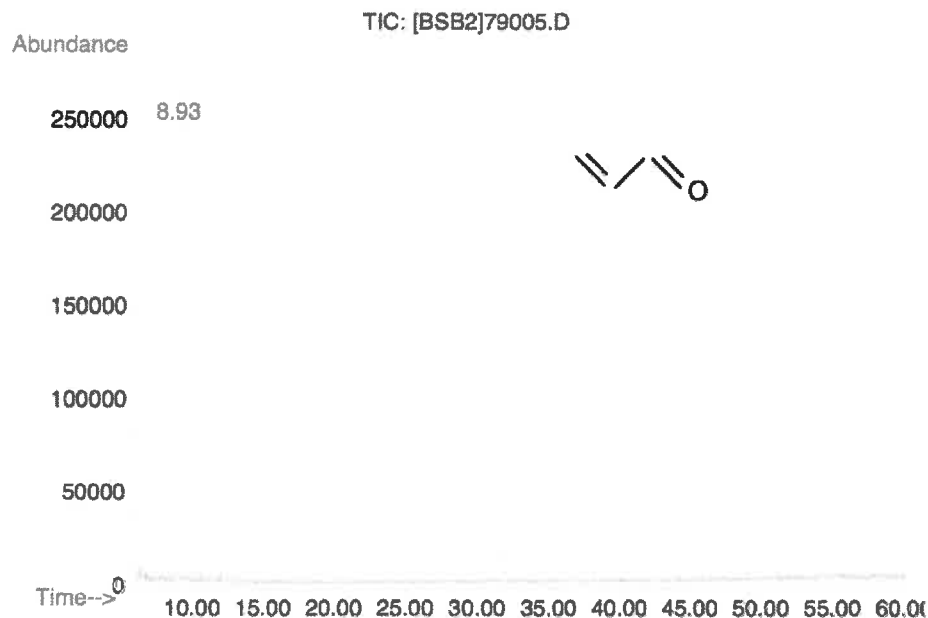
Expiration Date: 061925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

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	0.05170	5004.1	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 by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
 - Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 - All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 - Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
- Rev 1.0, 2/25/2025



Certified Reference Material CRM

see 05/21/25



CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **051925**
Description: **Acrolein**

Solvent(s):
Water Lot# 041725Q

5.019

114944-114948

		051925
Formulated By:	Lawrence Barry	DATE
		051925
Reviewed By:	Pedro L. Rentas	DATE

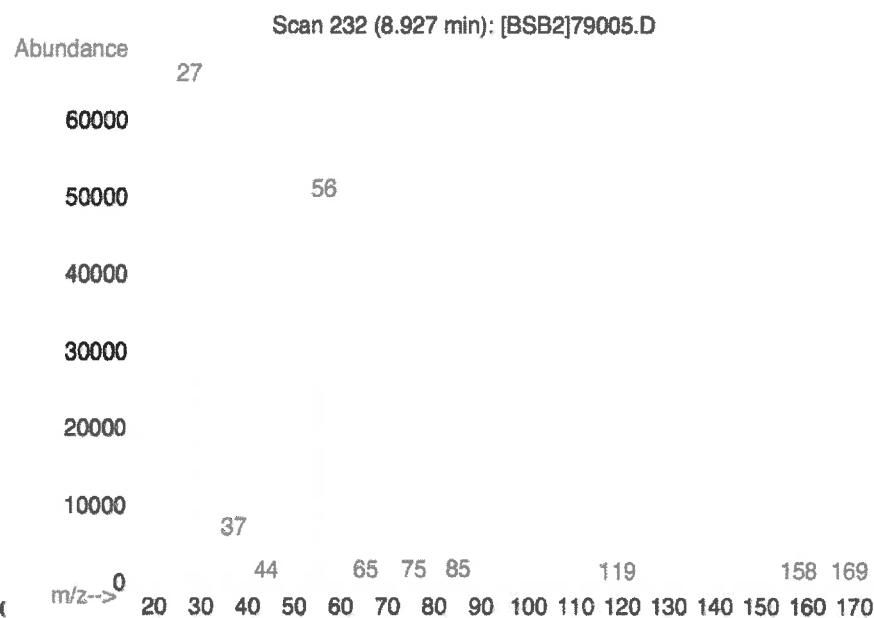
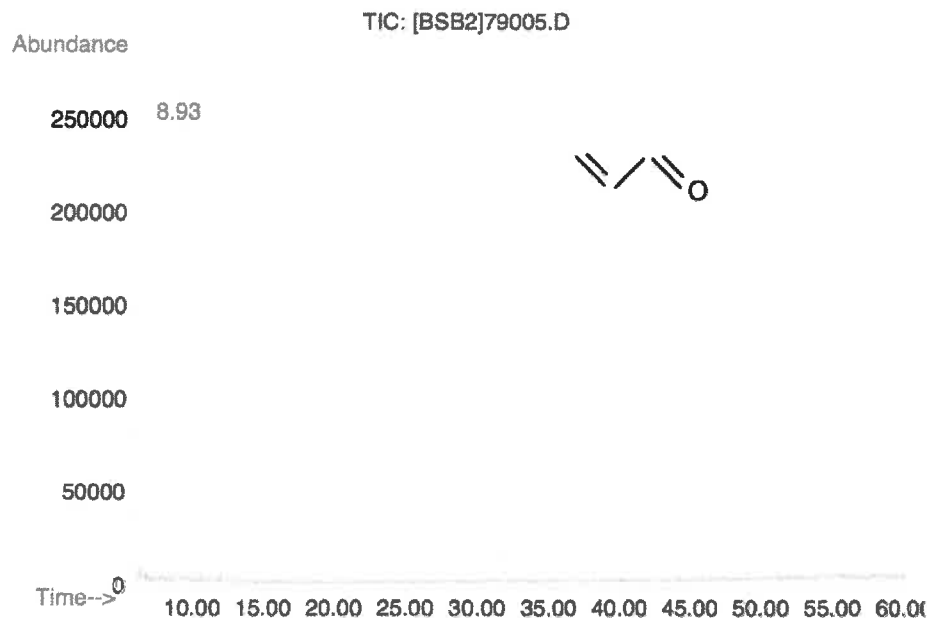
Expiration Date: 061925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

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	0.05170	5004.1	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 by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
 - Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 - All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 - Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
- Rev 1.0, 2/25/2025



Certified Reference Material CRM

see 05/21/25



CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **051925**
Description: **Acrolein**

Solvent(s):
Water Lot# 041725Q

5.019

114944-114948

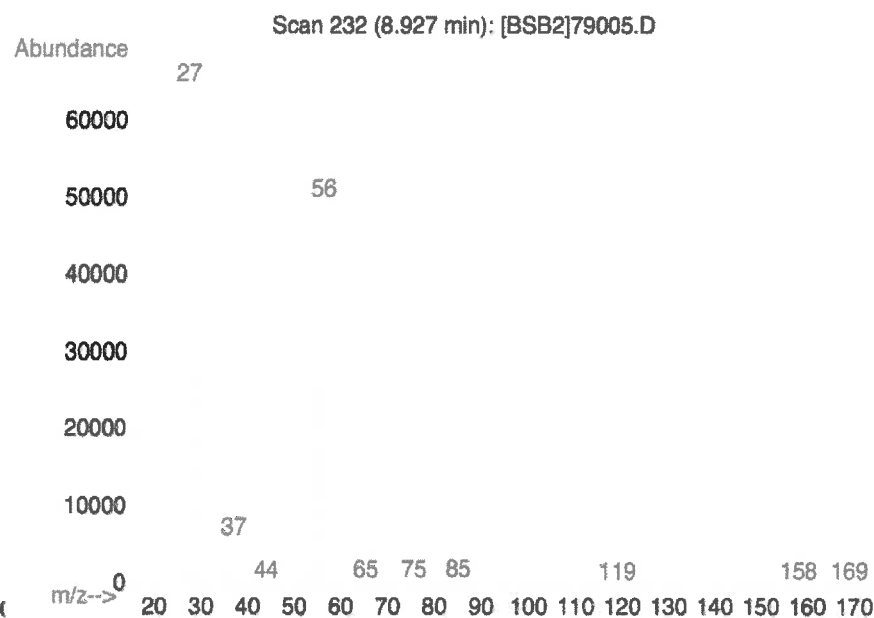
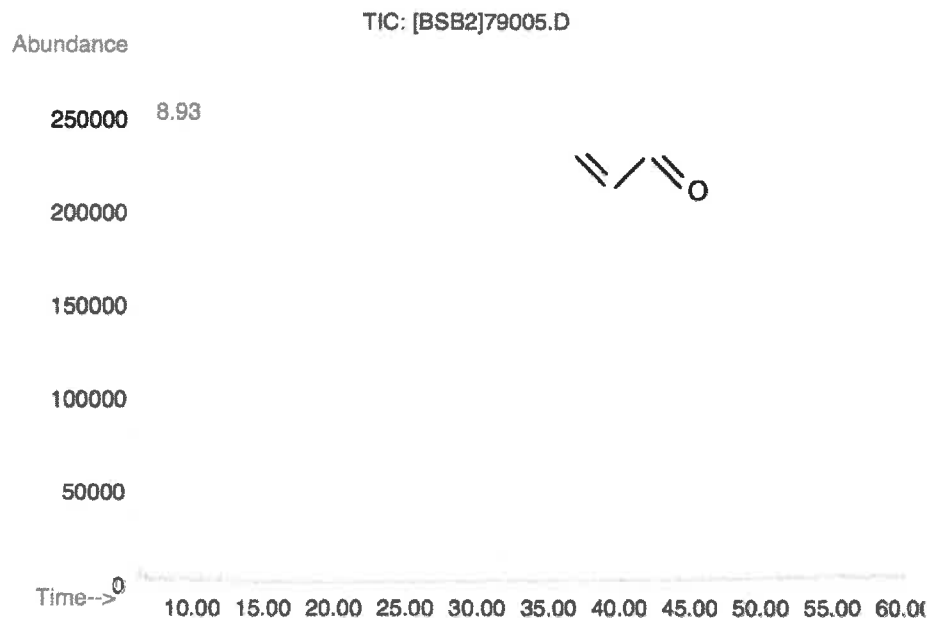
		051925
Formulated By:	Lawrence Barry	DATE
		051925
Reviewed By:	Pedro L. Rentas	DATE

Expiration Date: 061925
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	0.05170	5004.1	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 by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
 - Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 - All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 - Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
- Rev 1.0, 2/25/2025



Certified Reference Material CRM

Ref 0512125



CERTIFIED WEIGHT REPORT

2 vial

Solvent(s): Water Lot# 041725Q

V 14949-950

Part Number: 91980
Lot Number: 051725
Description: Acrolein

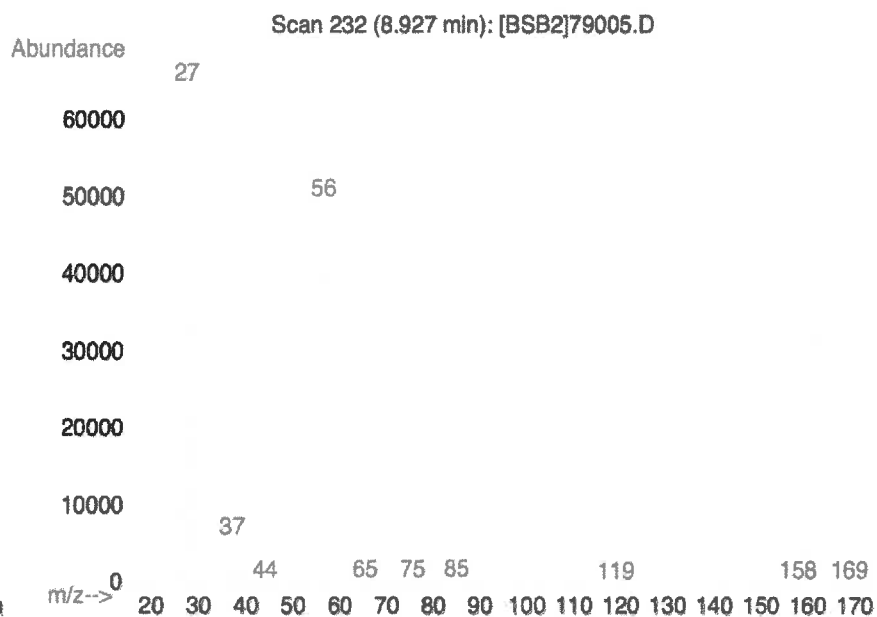
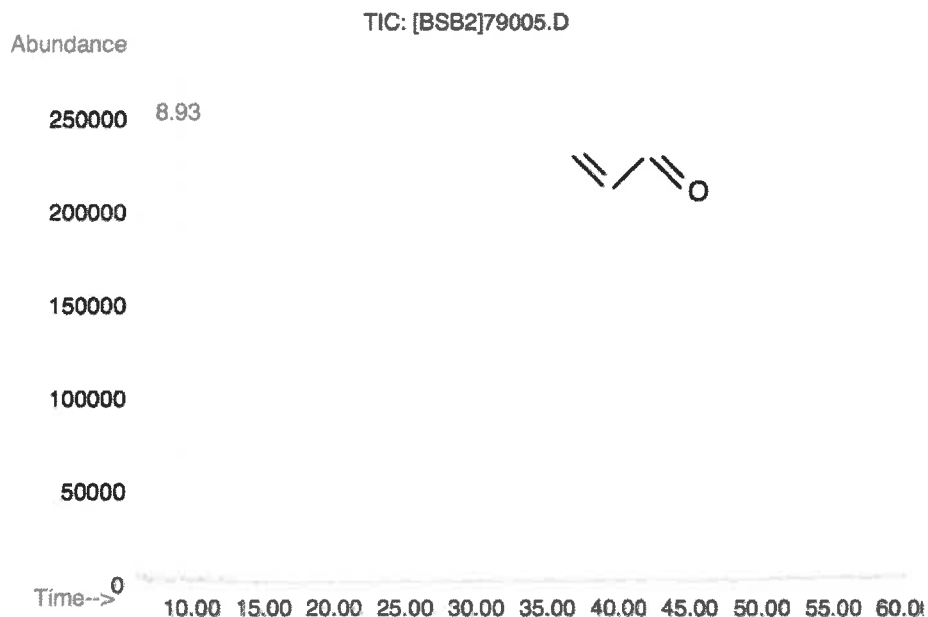
Expiration Date: 061725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

		051725
Formulated By:	Justin Dippold	DATE
		051725
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	103755R02H	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 - Standards are prepared gravimetrically using balances that are calibrated 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 0512125



CERTIFIED WEIGHT REPORT

2 vial

Solvent(s): Water Lot# 041725Q

V 14949-950

Part Number: 91980
Lot Number: 051725
Description: Acrolein

Expiration Date: 061725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

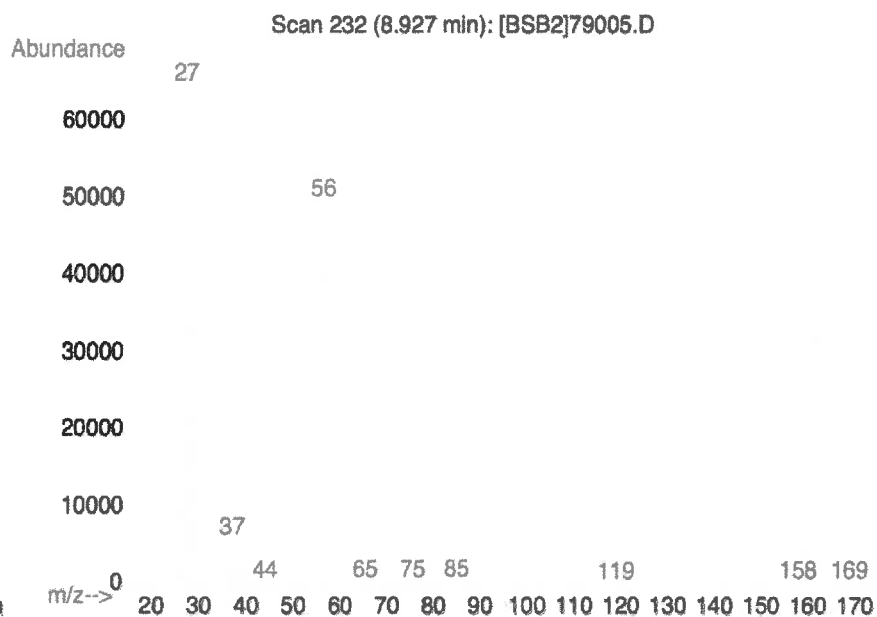
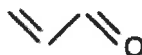
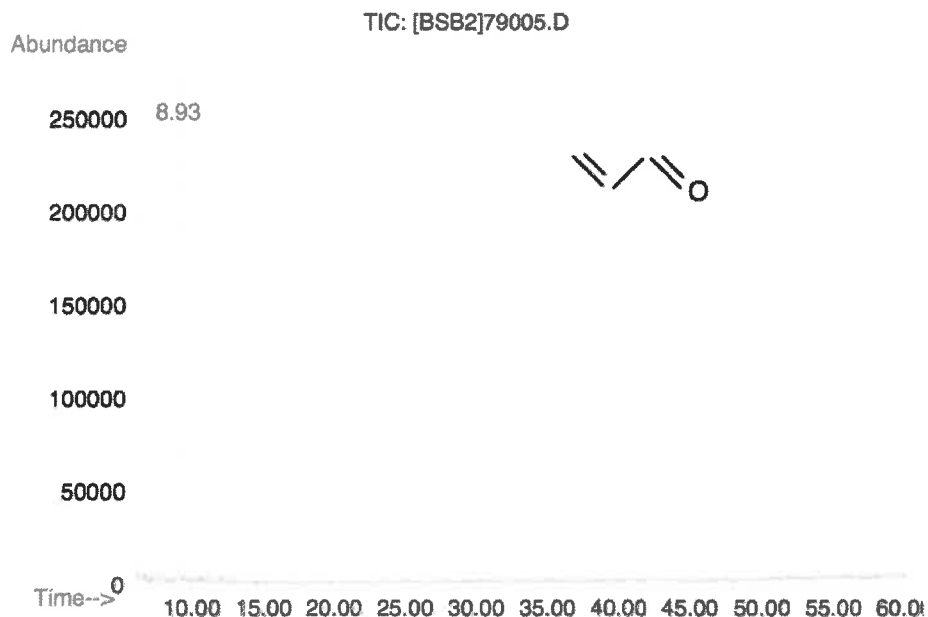
Weight(s) shown below were combined and diluted to (mL): 10.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Justin Dippold</i>		051725
Formulated By:	Justin Dippold	DATE
<i>Pedro L. Rentas</i>		051725
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	103755R02H	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 - Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
 - Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 - All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 - Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).
- Rev 1.0, 2/25/2025



SHIPPING DOCUMENTS

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CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: CAL Smith Inc.
ADDRESS: 110 Fieldcrest Ave. #8 6th Floor
CITY: Edison STATE: NJ ZIP: 08837
ATTENTION: M. Encinas
PHONE: 732 590-4679 FAX:

PROJECT NAME: UTEN UST
PROJECT NO.: LOCATION: Mt. Vernon NJ
PROJECT MANAGER: M. Encinas
e-mail: Encinas_m@calsmith.com
PHONE: 732 590 4679 FAX:

BILL TO: CAL Smith PO#:
ADDRESS: 110 Fieldcrest Ave #8 6th Floor
CITY: Edison STATE: NJ ZIP: 08837
ATTENTION: M Encinas PHONE: 732 590 4679

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: 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. NYS ASP B CP & VOC
2. NYS ASP B CP & VOC
3. NYS ASP B CP & VOC
4. NYS ASP B CP & VOC
5. NYS ASP B CP & VOC
6. NYS ASP B CP & VOC
7. NYS ASP B CP & VOC
8. NYS ASP B CP & VOC
9. NYS ASP B CP & VOC

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS		
			COMP	GRAB	DATE	TIME		A E	E									← Specify Preservatives A-HCl B-HNO3 C-H2SO4	D-NaOH E-ICE F-OTHER
1.	FA 060425	Ag		✓	6/4/25	1130	3	✓	✓									CP-51 Tg & VOC	
2.	GW MW 01 060425	Ag		✓	↓	1305	9	✓	✓									VOC and SWOC	
3.	GW MW 901 060425	Ag		✓	↓	1305	3	✓	✓									MS ASD ↓	
4.	TB 060425	Ag		✓	6/4/25		2	✓										CASI Tg & 3 VOC	
5.																			
6.																			
7.																			
8.																			
9.																			
10.																			

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: <u>1405</u>	RECEIVED BY:	DATE/TIME: <u>1405</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.0</u> °C
1. <u>[Signature]</u>	<u>6/4/25</u>	1. <u>[Signature]</u>	<u>6-4-25</u>	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:		
2. <u>[Signature]</u>		2. <u>[Signature]</u>		
RELINQUISHED BY SAMPLER:	DATE/TIME: <u>1830</u>	RECEIVED BY:		
3. <u>[Signature]</u>	<u>6-4-25</u>	3. <u>[Signature]</u>		

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



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2230	CAMP02	Order Date : 6/4/2025 4:40:00 PM	Project Mgr :
Client Name : CDM Smith		Project Name : Con Ed UTEN Mount Vern	Report Type : NYS ASP B
Client Contact : Marcie Ann Encinas		Receive DateTime : 6/4/2025 12:00:00 AM	EDD Type : EQUIS
Invoice Name : CDM Smith		Purchase Order : 18:30	Hard Copy Date :
Invoice Contact : Marcie Ann Encinas			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2230-01	FB-060425	Water	06/04/2025	11:30					
					VOCMS Group3		8260-Low	5 Bus. Days	
Q2230-02	GW-MW01-060425	Water	06/04/2025	13:05					
					VOCMS Group3		8260-Low	5 Bus. Days	
Q2230-03	Q2230-02MS	Water	06/04/2025	13:05					
					VOCMS Group3		8260-Low	5 Bus. Days	
Q2230-04	Q2230-02MSD	Water	06/04/2025	13:05					
					VOCMS Group3		8260-Low	5 Bus. Days	
Q2230-05	GW-MW901-060425	Water	06/04/2025	13:05					
					VOCMS Group3		8260-Low	5 Bus. Days	
Q2230-06	TB060425	Water	06/04/2025	00:00					
					VOCMS Group3		8260-Low	5 Bus. Days	



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2230 **CAMP02** **Order Date :** 6/4/2025 4:40:00 PM **Project Mgr :**
Client Name : CDM Smith **Project Name :** Con Ed UTEN Mount Vern **Report Type :** NYS ASP ^B
Client Contact : Marcie Ann Encinas **Receive DateTime :** 6/4/2025 ~~12:00:00~~ AM **EDD Type :** EQUIS
Invoice Name : CDM Smith **Purchase Order :** 1830 **Hard Copy Date :**
Invoice Contact : Marcie Ann Encinas **Date Signoff :**

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
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Relinquished By :

Date / Time : 6/5/25 1020

Received By :

Date / Time :

Storage Area : VOA Refridgerator Room