

DATA PACKAGE VOLATILE ORGANICS

PROJECT NAME : FORMER SCHLUMBERGER STC PTC SITE D3868221

JACOBS ENGINEERING GROUP, INC.

412 Mt. Kemble Ave

Downtown Building

Morristown, NJ - 07960

Phone No: 9732670555

ORDER ID : Q2250

ATTENTION : John Ynfante



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q2250

Project ID : Former Schlumberger STC PTC Site D3868221

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

Q2250-01
Q2250-02
Q2250-03
Q2250-04
Q2250-05
Q2250-06
Q2250-07

Client Sample Number

MW-11A-13.5-060525
MW-11A-13.5-060525MS
MW-11A-13.5-060525MSD
MW-06-6.5-060525
EB02-060525
TB-01-060525
EB02-060525

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

Signature : _____

Date: 6/18/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger STC PTC Site D3868221

Project # N/A

Order ID # Q2250

Test Name: VOCMS Group3

A. Number of Samples and Date of Receipt:

7 Water samples were received on 06/05/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Alkalinity, Anions Group1, Dissolved ICP-Group2, Dissolved Metals Group3, Mercury, Metals ICP-TAL, METALS-TAL, SVOC-SIMGroup1, TDS and VOCMS Group3. This data package contains results for VOCMS Group3.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_N were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868. 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 {Q2250-02MS} with File ID: VN086922.D recoveries met the requirements for all compounds except for cis-1,2-Dichloroethene[2100%] and Trichloroethene[3000%] these compounds did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The MSD {Q2250-03MSD} with File ID: VN086923.D recoveries met the acceptable requirements except for cis-1,2-Dichloroethene[2500%] and Trichloroethene[3800%] these compounds did not meet the NJDKQP criteria and in-house criteria due to matrix interference.

The RPD for {Q2250-03MSD} with File ID: VN086923.D met criteria except for Trichloroethene[24%] due to difference in results of MS and MSD.

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.



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

The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

Sample MW-11A-13.5-060525 was diluted due to high concentration.

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_____

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: Q2250

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 {Q2250-02MS} with File ID: VN086922.D recoveries met the requirements for all compounds except for cis-1,2-Dichloroethene[2100%] and Trichloroethene[3000%] these compounds did not meet the NJDKQP criteria and in- house criteria due to matrix interference. The MSD {Q2250-03MSD} with File ID: VN086923.D recoveries met the acceptable requirements except for cis-1,2-Dichloroethene[2500%] and Trichloroethene[3800%] these compounds did not meet the NJDKQP criteria and in-house criteria due to matrix interference. The RPD for {Q2250-03MSD} with File ID: VN086923.D met criteria except for Trichloroethene[24%] due to difference in results of MS and MSD.		✓	
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓

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

NA NO YES

10. Analysis Holding Time Met

✓

If not met, list number of days exceeded for each sample:

ADDITIONAL COMMENTS:

Sample MW-11A-13.5-060525 was diluted due to high concentration.

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2250

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: 06/18/2025

LAB CHRONICLE

OrderID:	Q2250	OrderDate:	6/5/2025 4:22:00 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	Location:	D22,N31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2250-01	MW-11A-13.5-060525	Water	VOCMS Group3	8260-Low	06/05/25		06/10/25	06/05/25
Q2250-01DL	MW-11A-13.5-060525 DL	Water	VOCMS Group3	8260-Low	06/05/25		06/11/25	06/05/25
Q2250-05	EB02-060525	Water	VOCMS Group3	8260-Low	06/05/25		06/10/25	06/05/25
Q2250-06	TB-01-060525	Water	VOCMS Group3	8260-Low	06/05/25		06/10/25	06/05/25

Hit Summary Sheet
SW-846

SDG No.: Q2250

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	MW-11A-13.5-060525							
Q2250-01	MW-11A-13.5-0605 Water		Vinyl Chloride	5.00		0.26	1.00	ug/L
Q2250-01	MW-11A-13.5-0605 Water		1,1-Dichloroethene	4.20		0.23	1.00	ug/L
Q2250-01	MW-11A-13.5-0605 Water		1,1-Dichloroethane	2.80		0.23	1.00	ug/L
Q2250-01	MW-11A-13.5-0605 Water		cis-1,2-Dichloroethene	850	E	0.19	1.00	ug/L
Q2250-01	MW-11A-13.5-0605 Water		Benzene	0.42	J	0.15	1.00	ug/L
Q2250-01	MW-11A-13.5-0605 Water		Trichloroethene	1400	E	0.090	1.00	ug/L
Q2250-01	MW-11A-13.5-0605 Water		1,1,2-Trichloroethane	0.50	J	0.21	1.00	ug/L
Q2250-01	MW-11A-13.5-0605 Water		Tetrachloroethene	9.40		0.23	1.00	ug/L
			Total Voc :	2270				
			Total Concentration:	2270				
Client ID:	MW-11A-13.5-060525DL							
Q2250-01DL	MW-11A-13.5-0605 Water		Vinyl Chloride	6.60	JD	5.20	20.0	ug/L
Q2250-01DL	MW-11A-13.5-0605 Water		cis-1,2-Dichloroethene	1000	D	3.80	20.0	ug/L
Q2250-01DL	MW-11A-13.5-0605 Water		Trichloroethene	1700	D	1.90	20.0	ug/L
Q2250-01DL	MW-11A-13.5-0605 Water		Tetrachloroethene	12.2	JD	4.60	20.0	ug/L
			Total Voc :	2720				
			Total Concentration:	2720				



QC SUMMARY

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Surrogate Summary

SDG No.: **Q2250**

Client: **JACOBS Engineering Group, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2250-01	MW-11A-13.5-060525	1,2-Dichloroethane-d4	50	47.8	96	70 (74)	130 (125)
		Dibromofluoromethane	50	49.4	99	70 (75)	130 (124)
		Toluene-d8	50	51.3	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.0	100	70 (77)	130 (121)
Q2250-01DL	MW-11A-13.5-060525DL	1,2-Dichloroethane-d4	50	46.3	93	70 (74)	130 (125)
		Dibromofluoromethane	50	48.4	97	70 (75)	130 (124)
		Toluene-d8	50	51.1	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.1	98	70 (77)	130 (121)
Q2250-02MS	MW-11A-13.5-060525MS	1,2-Dichloroethane-d4	50	49.9	100	70 (74)	130 (125)
		Dibromofluoromethane	50	52.4	105	70 (75)	130 (124)
		Toluene-d8	50	51.2	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.9	102	70 (77)	130 (121)
Q2250-03MSD	MW-11A-13.5-060525MSD	1,2-Dichloroethane-d4	50	52.7	105	70 (74)	130 (125)
		Dibromofluoromethane	50	56.6	113	70 (75)	130 (124)
		Toluene-d8	50	54.8	110	70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.3	111	70 (77)	130 (121)
Q2250-05	EB02-060525	1,2-Dichloroethane-d4	50	47.9	96	70 (74)	130 (125)
		Dibromofluoromethane	50	48.8	98	70 (75)	130 (124)
		Toluene-d8	50	51.5	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.9	98	70 (77)	130 (121)
Q2250-06	TB-01-060525	1,2-Dichloroethane-d4	50	47.2	94	70 (74)	130 (125)
		Dibromofluoromethane	50	48.8	98	70 (75)	130 (124)
		Toluene-d8	50	51.1	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.1	98	70 (77)	130 (121)
VN0610WBL01	VN0610WBL01	1,2-Dichloroethane-d4	50	46.7	93	70 (74)	130 (125)
		Dibromofluoromethane	50	49.0	98	70 (75)	130 (124)
		Toluene-d8	50	51.5	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.0	98	70 (77)	130 (121)
VN0610WBS01	VN0610WBS01	1,2-Dichloroethane-d4	50	45.4	91	70 (74)	130 (125)
		Dibromofluoromethane	50	49.5	99	70 (75)	130 (124)
		Toluene-d8	50	48.6	97	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.3	97	70 (77)	130 (121)
VN0611WBL01	VN0611WBL01	1,2-Dichloroethane-d4	50	48.3	97	70 (74)	130 (125)
		Dibromofluoromethane	50	49.3	99	70 (75)	130 (124)
		Toluene-d8	50	51.7	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.4	99	70 (77)	130 (121)
VN0611WBS02	VN0611WBS02	1,2-Dichloroethane-d4	50	47.1	94	70 (74)	130 (125)
		Dibromofluoromethane	50	51.1	102	70 (75)	130 (124)
		Toluene-d8	50	48.7	97	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.0	100	70 (77)	130 (121)

() = LABORATORY INHOUSE LIMIT

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2250

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Limits											
Parameter	Spike	Sample Result	Result	Units	Rec			RPD	Low	High	RPD
					Rec	Qual	RPD	Qual			
Lab Sample ID :	Q2250-02MS	Client Sample ID :	MW-11A-13.5-060525MS					Datafile :	VN086922.D		
Vinyl chloride	50	5.00	50.4	ug/L	91				70 (69)	130 (125)	
1,1-Dichloroethene	50	4.20	47.9	ug/L	87				70 (53)	130 (162)	
1,1-Dichloroethane	50	2.80	45.2	ug/L	85				70 (78)	130 (122)	
cis-1,2-Dichloroethene	50	850	1900	ug/L	2100	*			70 (82)	130 (124)	
1,1,1-Trichloroethane	50	0	37.2	ug/L	74				70 (83)	130 (117)	
Benzene	50	0.42	39.1	ug/L	77				70 (81)	130 (128)	
1,2-Dichloroethane	50	0	39.3	ug/L	79				70 (76)	130 (120)	
Trichloroethene	50	1400	2900	ug/L	3000	*			70 (28)	130 (175)	
1,1,2-Trichloroethane	50	0.50	40.0	ug/L	79				70 (27)	130 (175)	
Tetrachloroethene	50	9.40	57.0	ug/L	95				70 (48)	130 (153)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2250

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Limits											
Parameter	Spike	Sample Result	Result	Units	Rec	Qual	RPD	RPD Qual	Low	High	RPD
Lab Sample ID :	Q2250-03MSD	Client Sample ID :	MW-11A-13.5-060525MSD					Datafile :	VN086923.D		
Vinyl chloride	50	5.00	57.2	ug/L	104		13		70 (69)	130 (125)	20 (20)
1,1-Dichloroethene	50	4.20	53.1	ug/L	98		12		70 (53)	130 (162)	20 (20)
1,1-Dichloroethane	50	2.80	49.5	ug/L	93		9		70 (78)	130 (122)	20 (20)
cis-1,2-Dichloroethene	50	850	2100	ug/L	2500	*	17		70 (82)	130 (124)	20 (20)
1,1,1-Trichloroethane	50	0	41.4	ug/L	83		11		70 (83)	130 (117)	20 (20)
Benzene	50	0.42	43.0	ug/L	85		10		70 (81)	130 (128)	20 (20)
1,2-Dichloroethane	50	0	43.1	ug/L	86		9		70 (76)	130 (120)	20 (20)
Trichloroethene	50	1400	3300	ug/L	3800	*	24	*	70 (28)	130 (175)	20 (20)
1,1,2-Trichloroethane	50	0.50	44.5	ug/L	88		11		70 (27)	130 (175)	20 (20)
Tetrachloroethene	50	9.40	66.0	ug/L	113		17		70 (48)	130 (153)	20 (20)

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2250

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Datafile : VN086916.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0610WBS01	Vinyl chloride	20	18.0	ug/L	90			70 (65)	130 (117)	
	1,1-Dichloroethene	20	18.7	ug/L	94			70 (74)	130 (110)	
	1,1-Dichloroethane	20	18.2	ug/L	91			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	18.7	ug/L	94			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	18.1	ug/L	91			70 (80)	130 (108)	
	Benzene	20	18.5	ug/L	93			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.7	ug/L	94			70 (80)	130 (115)	
	Trichloroethene	20	19.3	ug/L	97			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	19.5	ug/L	98			70 (83)	130 (112)	
	Tetrachloroethene	20	17.9	ug/L	90			70 (67)	130 (123)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2250

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Datafile : VN086944.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0611WBS02	Vinyl chloride	20	18.9	ug/L	95			70 (65)	130 (117)	
	1,1-Dichloroethene	20	19.2	ug/L	96			70 (74)	130 (110)	
	1,1-Dichloroethane	20	19.4	ug/L	97			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	19.5	ug/L	98			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	19.0	ug/L	95			70 (80)	130 (108)	
	Benzene	20	19.3	ug/L	97			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.5	ug/L	98			70 (80)	130 (115)	
	Trichloroethene	20	19.9	ug/L	100			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	20.4	ug/L	102			70 (83)	130 (112)	
	Tetrachloroethene	20	19.2	ug/L	96			70 (67)	130 (123)	

() = LABORATORY INHOUSE LIMIT

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0610WBL01

Lab Name: CHEMTECH

Contract: JACO05

Lab Code: CHEM Case No.: Q2250

SAS No.: Q2250 SDG NO.: Q2250

Lab File ID: VN086915.D

Lab Sample ID: VN0610WBL01

Date Analyzed: 06/10/2025

Time Analyzed: 10:09

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0610WBS01	VN0610WBS01	VN086916.D	06/10/2025
EB02-060525	Q2250-05	VN086919.D	06/10/2025
TB-01-060525	Q2250-06	VN086920.D	06/10/2025
MW-11A-13.5-060525	Q2250-01	VN086921.D	06/10/2025
MW-11A-13.5-060525MS	Q2250-02MS	VN086922.D	06/10/2025
MW-11A-13.5-060525MSD	Q2250-03MSD	VN086923.D	06/10/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0611WBL01

Lab Name: CHEMTECH

Contract: JACO05

Lab Code: CHEM Case No.: Q2250

SAS No.: Q2250 SDG NO.: Q2250

Lab File ID: VN086942.D

Lab Sample ID: VN0611WBL01

Date Analyzed: 06/11/2025

Time Analyzed: 12:28

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0611WBS02	VN0611WBS02	VN086944.D	06/11/2025
MW-11A-13.5-060525DL	Q2250-01DL	VN086948.D	06/11/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
 BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05
 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG NO.: Q2250
 Lab File ID: VN086861.D BFB Injection Date: 06/06/2025
 Instrument ID: MSVOA_N BFB Injection Time: 07:59
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	48.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	66.6
175	5.0 - 9.0% of mass 174	4.7 (7.1) 1
176	95.0 - 101.0% of mass 174	65.3 (98.1) 1
177	5.0 - 9.0% of mass 176	4.4 (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
VSTDIC001	VSTDIC001	VN086862.D	06/06/2025	12:44
VSTDIC005	VSTDIC005	VN086863.D	06/06/2025	13:17
VSTDIC020	VSTDIC020	VN086864.D	06/06/2025	13:40
VSTDIC050	VSTDIC050	VN086865.D	06/06/2025	14:03
VSTDIC100	VSTDIC100	VN086866.D	06/06/2025	14:26
VSTDIC150	VSTDIC150	VN086867.D	06/06/2025	14:49



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG NO.: Q2250
Lab File ID: VN086912.D BFB Injection Date: 06/10/2025
Instrument ID: MSVOA_N BFB Injection Time: 08:39
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.1
75	30.0 - 60.0% of mass 95	47.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	73.1
175	5.0 - 9.0% of mass 174	5.3 (7.2) 1
176	95.0 - 101.0% of mass 174	71.3 (97.5) 1
177	5.0 - 9.0% of mass 176	4.9 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN086913.D	06/10/2025	09:13
VN0610WBL01	VN0610WBL01	VN086915.D	06/10/2025	10:09
VN0610WBS01	VN0610WBS01	VN086916.D	06/10/2025	10:30
EB02-060525	Q2250-05	VN086919.D	06/10/2025	11:47
TB-01-060525	Q2250-06	VN086920.D	06/10/2025	12:08
MW-11A-13.5-060525	Q2250-01	VN086921.D	06/10/2025	12:30
MW-11A-13.5-060525MS	Q2250-02MS	VN086922.D	06/10/2025	12:51
MW-11A-13.5-060525MSD	Q2250-03MSD	VN086923.D	06/10/2025	13:12



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG NO.: Q2250
Lab File ID: VN086939.D BFB Injection Date: 06/11/2025
Instrument ID: MSVOA_N BFB Injection Time: 10:22
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.7
75	30.0 - 60.0% of mass 95	46.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	71.1
175	5.0 - 9.0% of mass 174	5.4 (7.5) 1
176	95.0 - 101.0% of mass 174	68.8 (96.8) 1
177	5.0 - 9.0% of mass 176	4.8 (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	VN086940.D	06/11/2025	11:32
VN0611WBL01	VN0611WBL01	VN086942.D	06/11/2025	12:28
VN0611WBS02	VN0611WBS02	VN086944.D	06/11/2025	13:27
MW-11A-13.5-060525DL	Q2250-01DL	VN086948.D	06/11/2025	15:06

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG NO.: Q2250
Lab File ID: VN086913.D Date Analyzed: 06/10/2025
Instrument ID: MSVOA_N Time Analyzed: 09:13
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	239452	8.23	422119	9.11	362285	11.87
UPPER LIMIT	478904	8.73	844238	9.606	724570	12.365
LOWER LIMIT	119726	7.73	211060	8.606	181143	11.365
EPA SAMPLE NO.						
MW-11A-13.5-060525	361832	8.23	672514	9.11	593044	11.87
MW-11A-13.5-060525MS	174378	8.23	310932	9.11	270945	11.87
MW-11A-13.5-060525MSD	172955	8.23	309901	9.11	266637	11.87
EB02-060525	232754	8.23	433385	9.11	381245	11.87
TB-01-060525	350151	8.23	648560	9.11	563762	11.87
VN0610WBL01	241251	8.23	440901	9.11	386425	11.87
VN0610WBS01	249843	8.23	443174	9.11	389297	11.87

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: JACO05
Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG NO.: Q2250
Lab File ID: VN086913.D Date Analyzed: 06/10/2025
Instrument ID: MSVOA_N Time Analyzed: 09:13
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	170987	13.788				
UPPER LIMIT	341974	14.288				
LOWER LIMIT	85493.5	13.288				
EPA SAMPLE NO.						
MW-11A-13.5-060525	281220	13.79				
MW-11A-13.5-060525MS	132628	13.79				
MW-11A-13.5-060525MSD	129873	13.79				
EB02-060525	180063	13.79				
TB-01-060525	266280	13.79				
VN0610WBL01	183380	13.79				
VN0610WBS01	189620	13.79				

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: JACO05
Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG NO.: Q2250
Lab File ID: VN086940.D Date Analyzed: 06/11/2025
Instrument ID: MSVOA_N Time Analyzed: 11:32
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	205098	8.23	357643	9.11	312173	11.87
UPPER LIMIT	410196	8.73	715286	9.606	624346	12.365
LOWER LIMIT	102549	7.73	178822	8.606	156087	11.365
EPA SAMPLE NO.						
MW-11A-13.5-060525DL	272350	8.24	500042	9.11	434591	11.87
VN0611WBL01	328120	8.23	618651	9.11	543433	11.87
VN0611WBS02	206799	8.24	370524	9.11	321188	11.87

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: JACO05
Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG NO.: Q2250
Lab File ID: VN086940.D Date Analyzed: 06/11/2025
Instrument ID: MSVOA_N Time Analyzed: 11:32
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	152136	13.788				
UPPER LIMIT	304272	14.288				
LOWER LIMIT	76068	13.288				
EPA SAMPLE NO.						
MW-11A-13.5-060525DL	208257	13.79				
VN0611WBL01	257257	13.79				
VN0611WBS02	157403	13.79				

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
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16

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	MW-11A-13.5-060525	SDG No.:	Q2250
Lab Sample ID:	Q2250-01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086921.D	1		06/10/25 12:30	VN061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	5.00		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	4.20		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	2.80		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	850	E	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
71-43-2	Benzene	0.42	J	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	1400	E	0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	J	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	9.40		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.8		70 (74) - 130 (125)	96%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	51.3		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	362000	8.23			
540-36-3	1,4-Difluorobenzene	673000	9.106			
3114-55-4	Chlorobenzene-d5	593000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	281000	13.788			

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_N\Data\VN061025\
 Data File : VN086921.D
 Acq On : 10 Jun 2025 12:30
 Operator : JC\MD
 Sample : Q2250-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-11A-13.5-060525

Quant Time: Jun 11 01:52:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

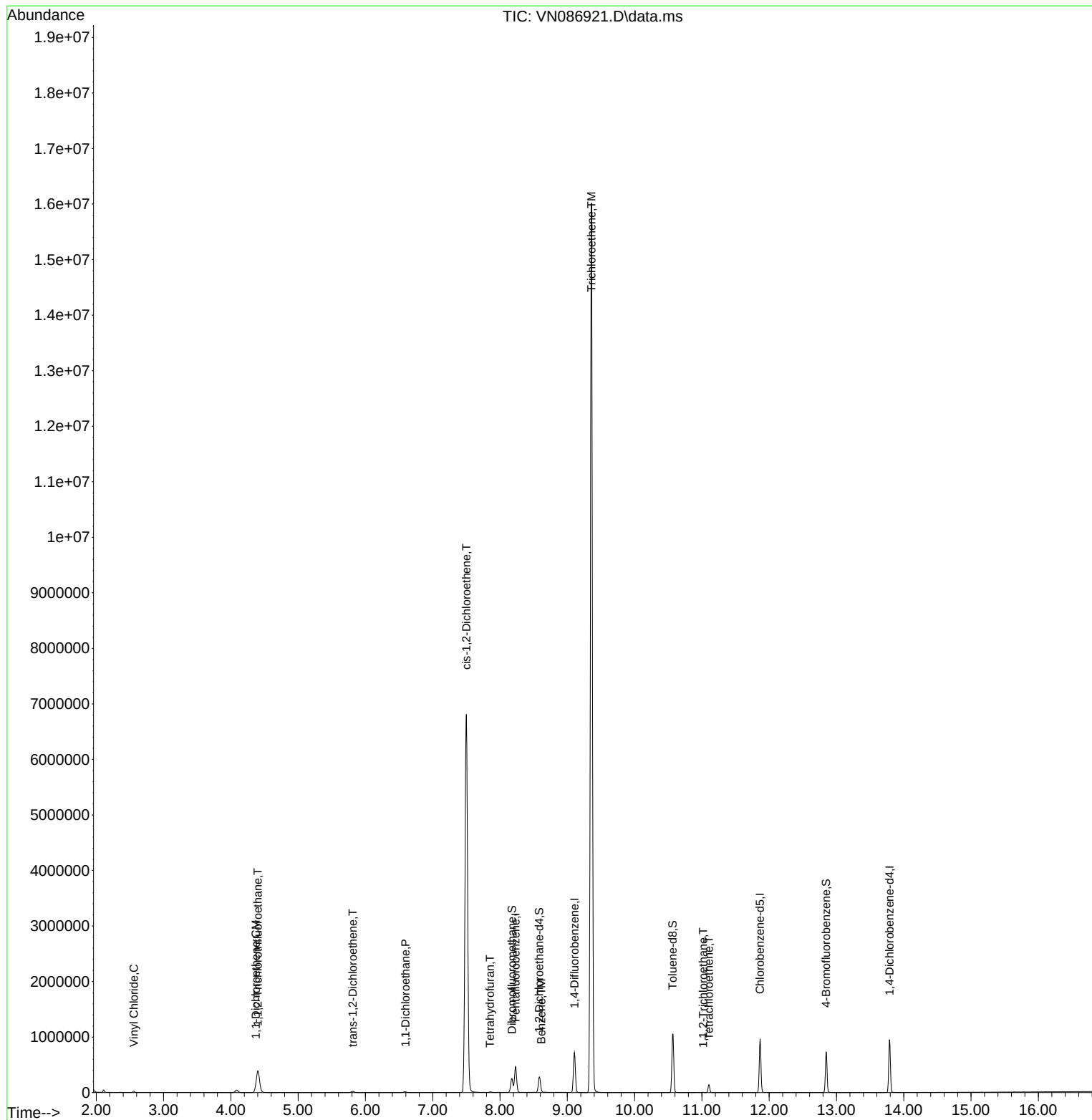
Internal Standards						
1) Pentafluorobenzene	8.230	168	361832	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	672514	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	593044	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	281220	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	231529	47.792	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	95.580%	
35) Dibromofluoromethane	8.177	113	196952	49.417	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	98.840%	
50) Toluene-d8	10.565	98	809307	51.295	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	102.600%	
62) 4-Bromofluorobenzene	12.847	95	293403	50.054	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	100.100%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.559	62	24226	5.041	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.400	101	302235	76.617	ug/l	99
12) 1,1-Dichloroethene	4.371	96	16986	4.218	ug/l	100
21) trans-1,2-Dichloroethene	5.812	96	16472	3.676	ug/l	88
24) 1,1-Dichloroethane	6.594	63	22723	2.805	ug/l	96
27) cis-1,2-Dichloroethene	7.500	96	4534458	846.190	ug/l	90
29) Tetrahydrofuran	7.853	42	9084	3.339	ug/l	95
40) Benzene	8.612	78	8119	0.418	ug/l	95
44) Trichloroethene	9.359	130	6309047	1370.098	ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	2269	0.497	ug/l	95
64) Tetrachloroethene	11.106	164	35442	9.443	ug/l	96

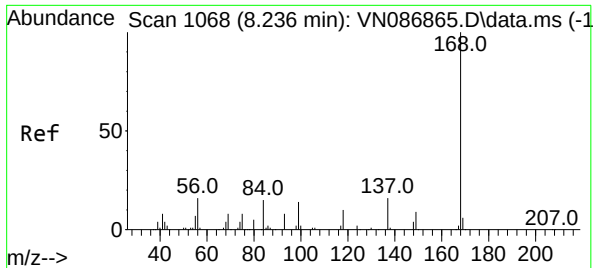
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086921.D
Acq On : 10 Jun 2025 12:30
Operator : JC\MD
Sample : Q2250-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525

Quant Time: Jun 11 01:52:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

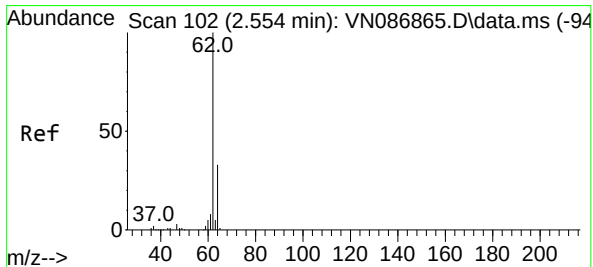
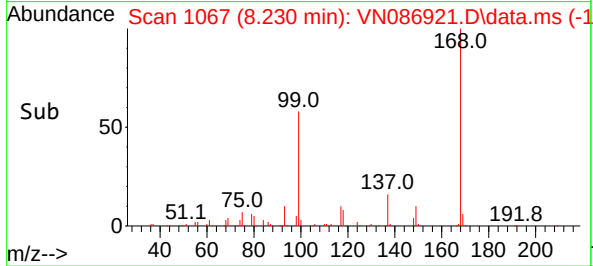
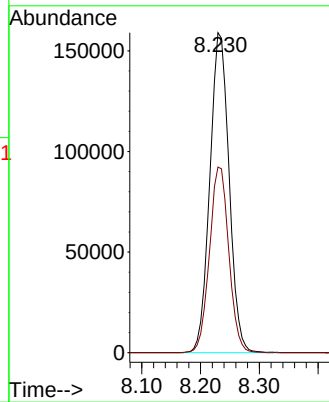
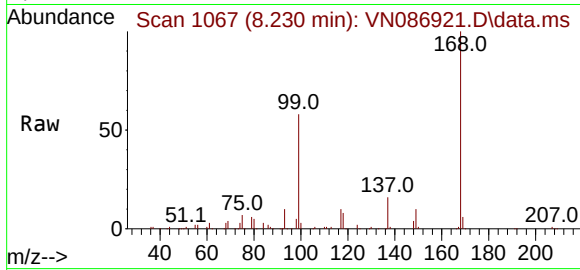




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

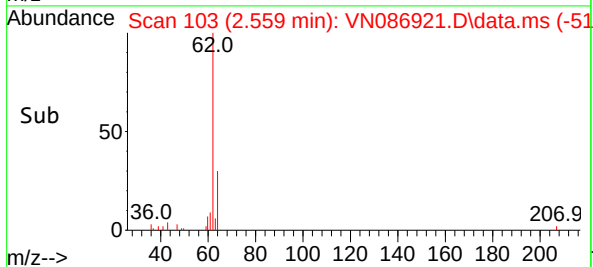
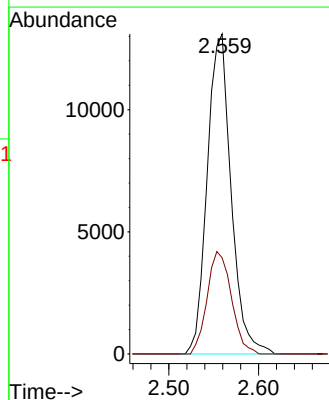
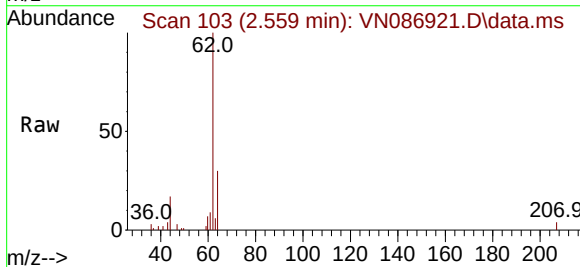
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525

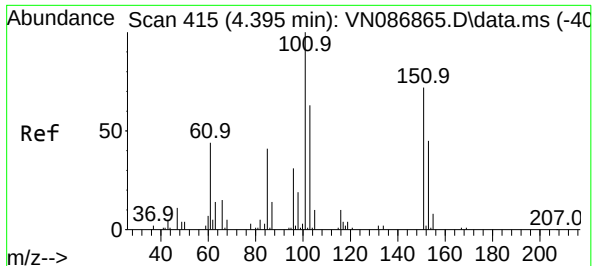
Tgt Ion:168 Resp: 361832
Ion Ratio Lower Upper
168 100
99 58.0 49.1 73.7



#4
Vinyl Chloride
Concen: 5.041 ug/l
RT: 2.559 min Scan# 103
Delta R.T. 0.006 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

Tgt Ion: 62 Resp: 24226
Ion Ratio Lower Upper
62 100
64 30.0 26.0 39.0

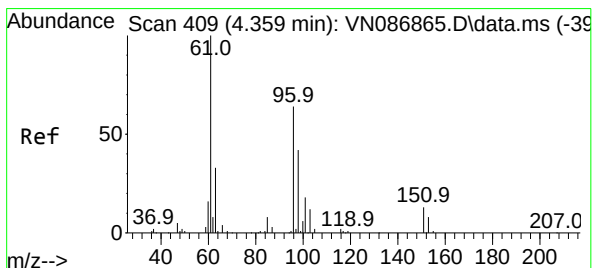
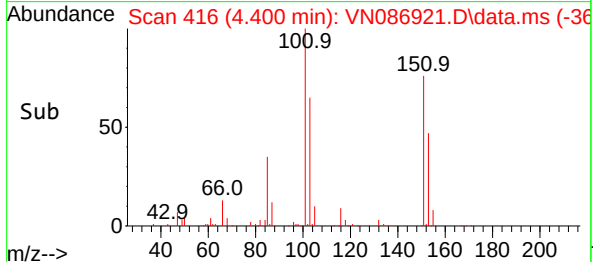
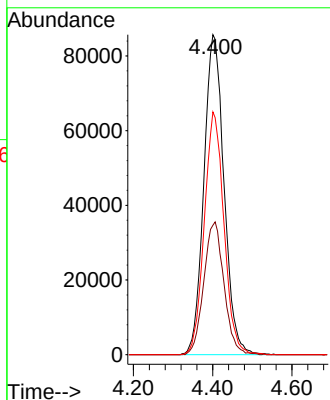
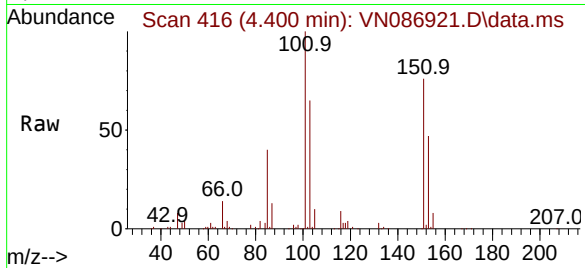




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 76.617 ug/l
 RT: 4.400 min Scan# 415
 Delta R.T. 0.006 min
 Lab File: VN086921.D
 Acq: 10 Jun 2025 12:30

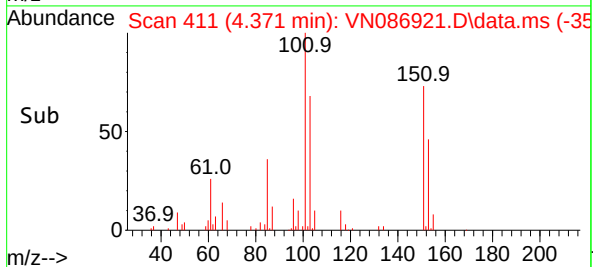
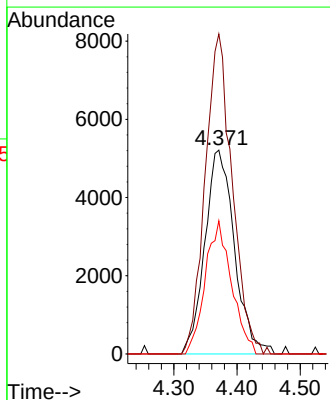
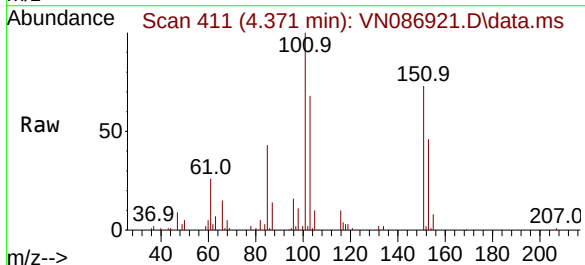
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-11A-13.5-060525

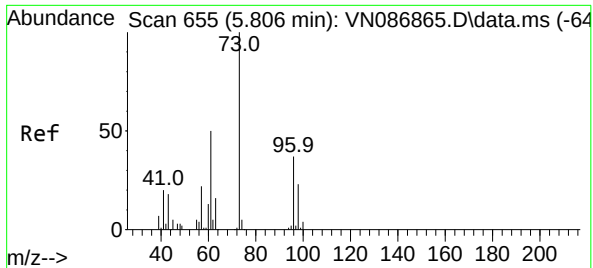
Tgt Ion: 101 Resp: 302235
 Ion Ratio Lower Upper
 101 100
 85 41.6 33.8 50.8
 151 74.1 58.7 88.1



#12
 1,1-Dichloroethene
 Concen: 4.218 ug/l
 RT: 4.371 min Scan# 411
 Delta R.T. 0.012 min
 Lab File: VN086921.D
 Acq: 10 Jun 2025 12:30

Tgt Ion: 96 Resp: 16986
 Ion Ratio Lower Upper
 96 100
 61 157.0 125.8 188.6
 98 65.3 52.5 78.7

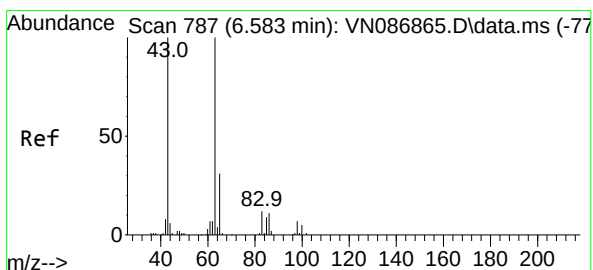
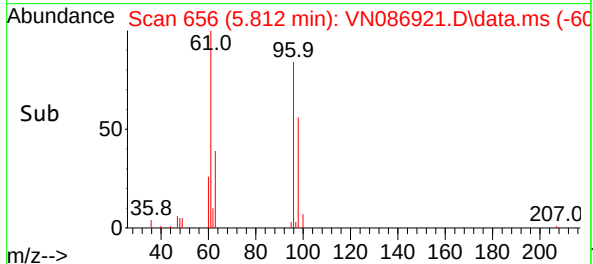
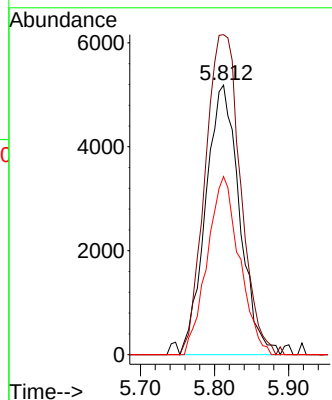
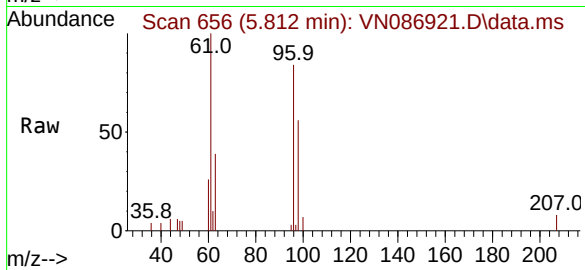




#21
trans-1,2-Dichloroethene
Concen: 3.676 ug/l
RT: 5.812 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

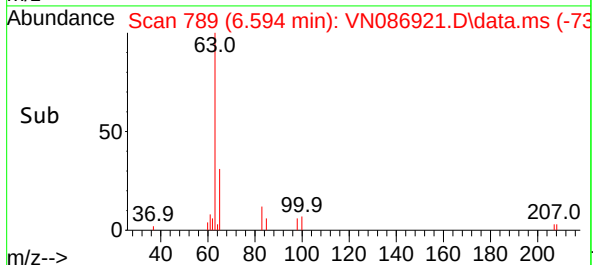
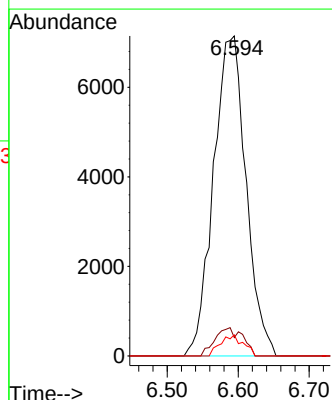
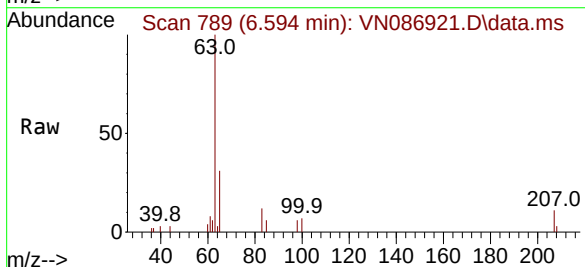
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525

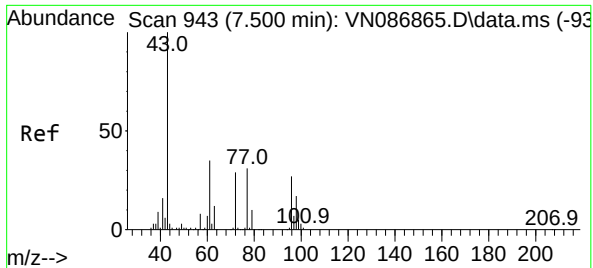
Tgt Ion: 96 Resp: 16472
Ion Ratio Lower Upper
96 100
61 118.7 109.2 163.8
98 66.1 49.8 74.8



#24
1,1-Dichloroethane
Concen: 2.805 ug/l
RT: 6.594 min Scan# 789
Delta R.T. 0.012 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

Tgt Ion: 63 Resp: 22723
Ion Ratio Lower Upper
63 100
98 5.8 3.6 10.8
100 6.6 2.6 7.8





#27

cis-1,2-Dichloroethene

Concen: 846.190 ug/l

RT: 7.500 min Scan# 943

Delta R.T. -0.000 min

Lab File: VN086921.D

Acq: 10 Jun 2025 12:30

Instrument :

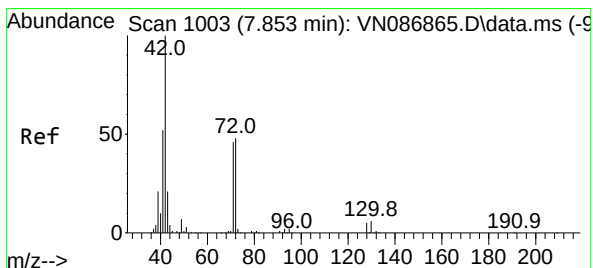
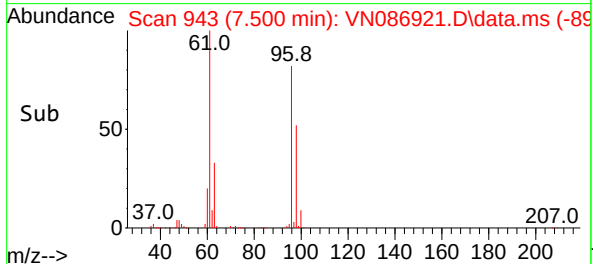
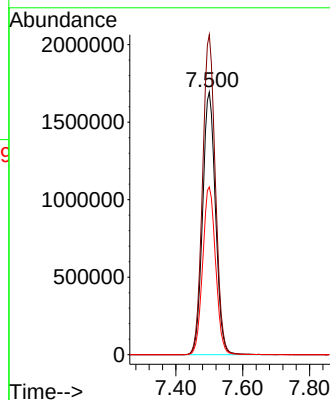
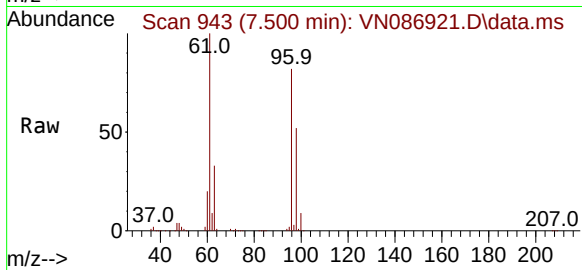
MSVOA_N

ClientSampleId :

MW-11A-13.5-060525

Tgt Ion: 96 Resp: 4534458

Ion	Ratio	Lower	Upper
96	100		
61	121.3	0.0	278.0
98	64.3	0.0	128.2



#29

Tetrahydrofuran

Concen: 3.339 ug/l

RT: 7.853 min Scan# 1003

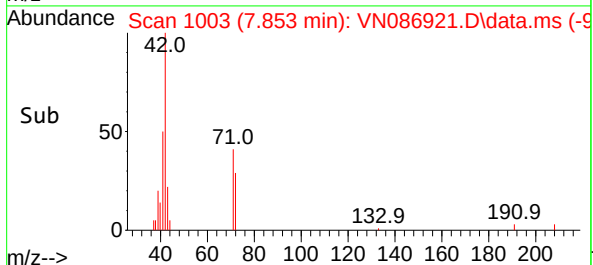
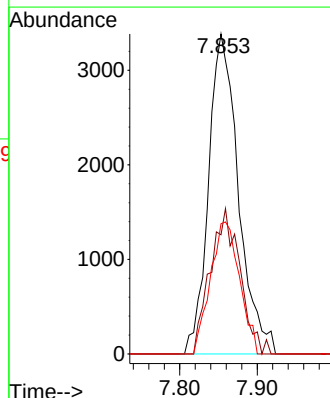
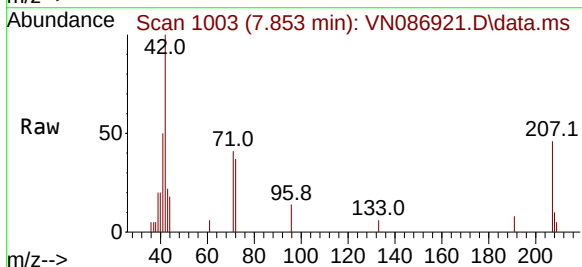
Delta R.T. -0.000 min

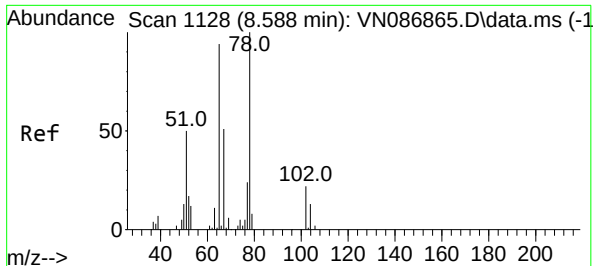
Lab File: VN086921.D

Acq: 10 Jun 2025 12:30

Tgt Ion: 42 Resp: 9084

Ion	Ratio	Lower	Upper
42	100		
72	45.2	37.8	56.6
71	40.1	35.6	53.4





#33

1,2-Dichloroethane-d4

Concen: 47.792 ug/l

RT: 8.582 min Scan# 1128

Delta R.T. -0.006 min

Lab File: VN086921.D

Acq: 10 Jun 2025 12:30

Instrument :

MSVOA_N

ClientSampleId :

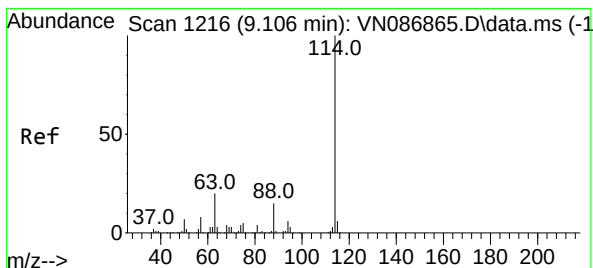
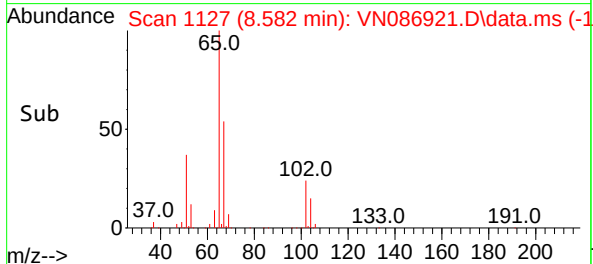
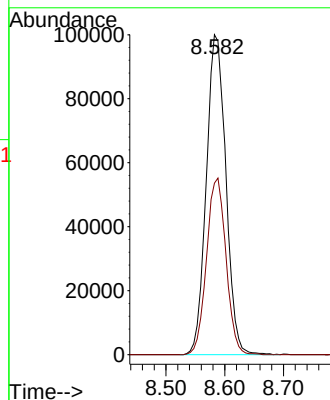
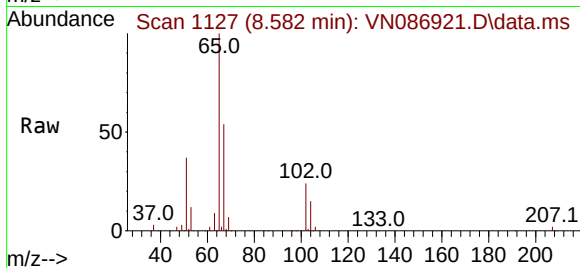
MW-11A-13.5-060525

Tgt Ion: 65 Resp: 231529

Ion Ratio Lower Upper

65 100

67 54.8 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086921.D

Acq: 10 Jun 2025 12:30

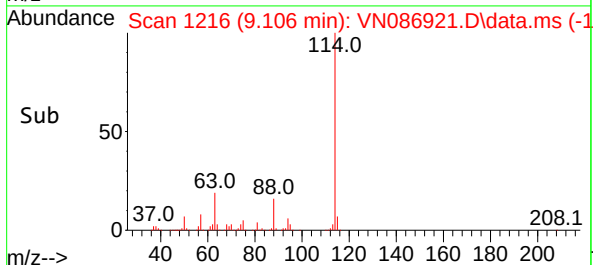
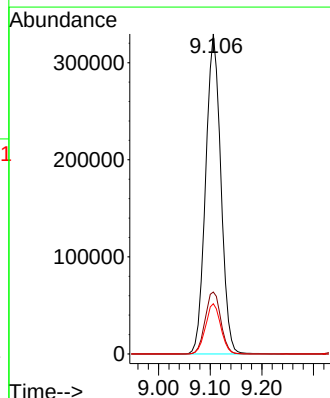
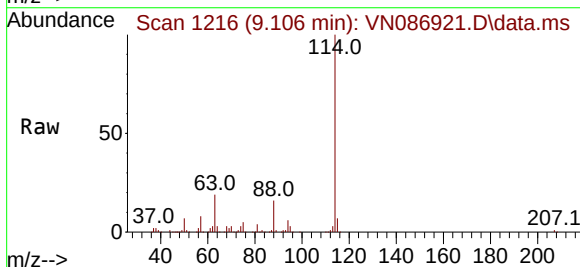
Tgt Ion: 114 Resp: 672514

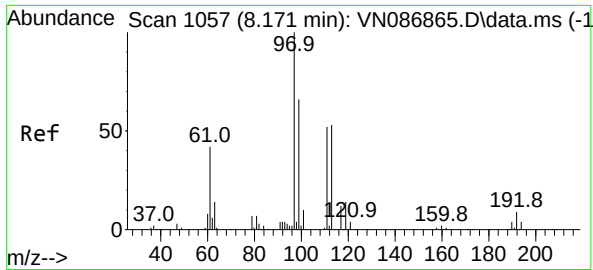
Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.6

88 15.7 0.0 30.2





#35

Dibromofluoromethane

Concen: 49.417 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN086921.D

Acq: 10 Jun 2025 12:30

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525

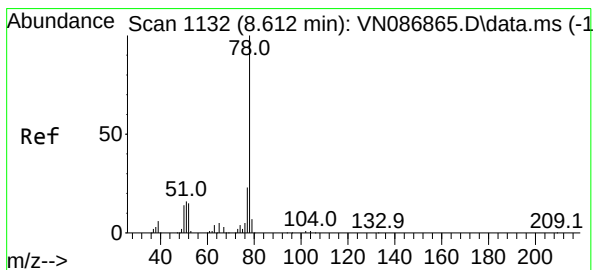
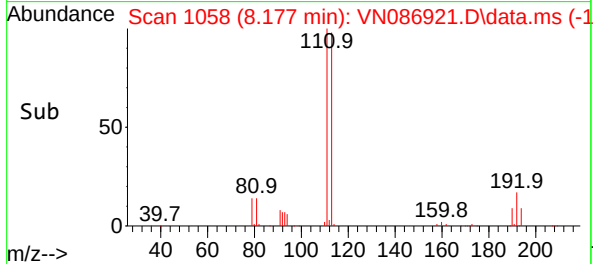
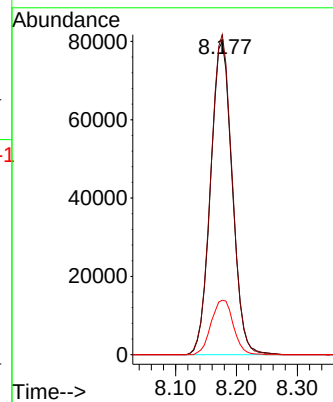
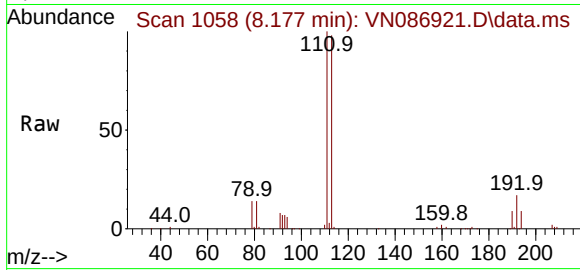
Tgt Ion:113 Resp: 196952

Ion Ratio Lower Upper

113 100

111 101.7 84.2 126.2

192 17.8 14.2 21.4



#40

Benzene

Concen: 0.418 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VN086921.D

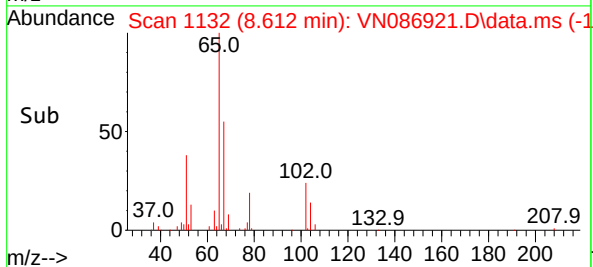
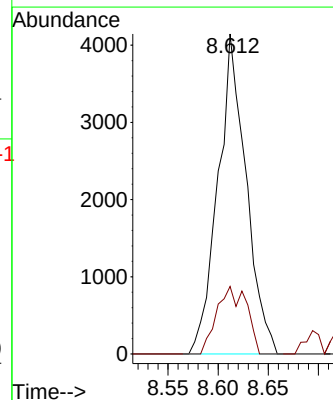
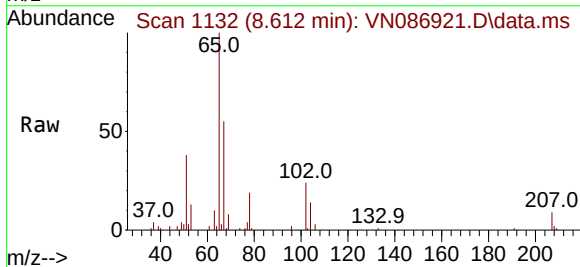
Acq: 10 Jun 2025 12:30

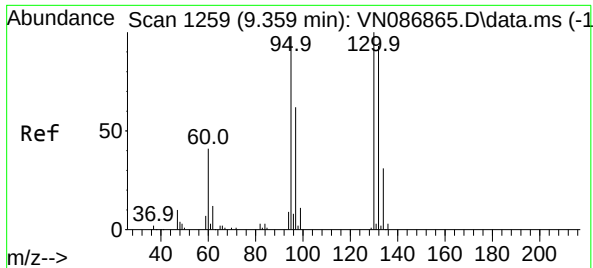
Tgt Ion: 78 Resp: 8119

Ion Ratio Lower Upper

78 100

77 21.1 18.7 28.1

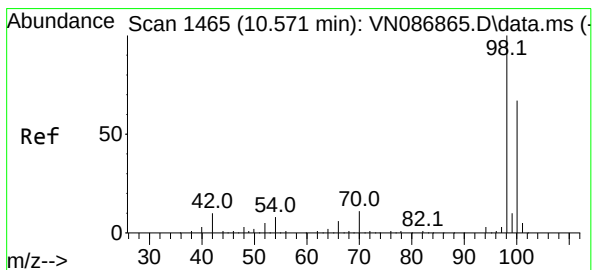
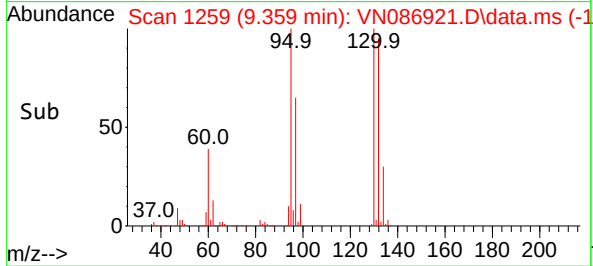
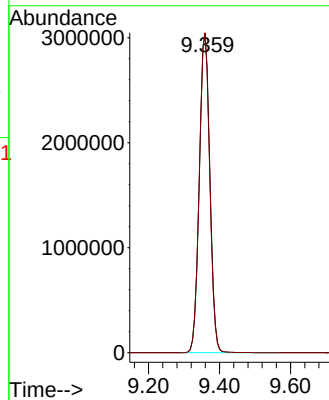
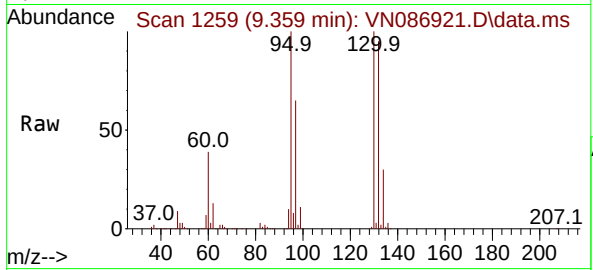




#44
Trichloroethene
Concen: 1370.098 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

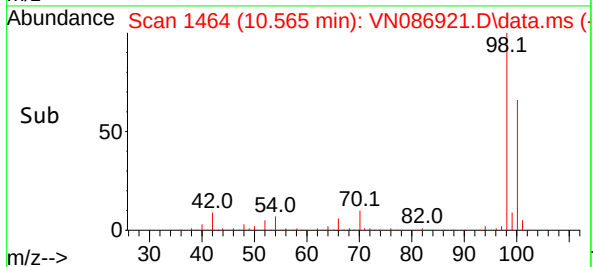
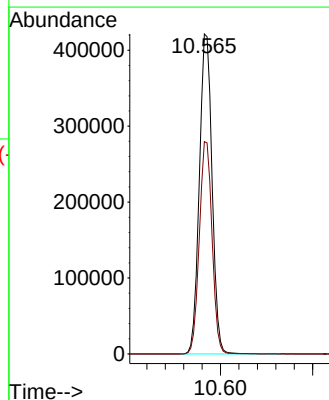
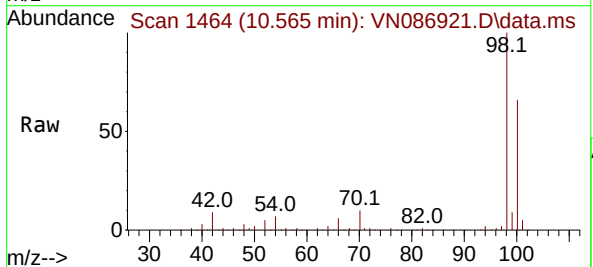
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525

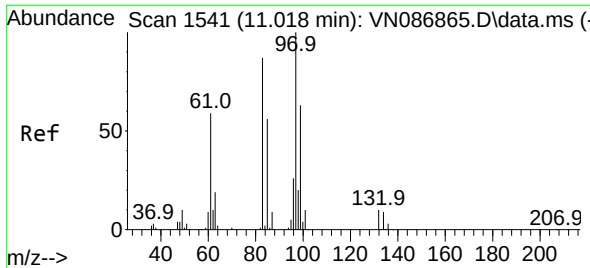
Tgt Ion:130 Resp: 6309047
Ion Ratio Lower Upper
130 100
95 100.4 0.0 196.2



#50
Toluene-d8
Concen: 51.295 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

Tgt Ion: 98 Resp: 809307
Ion Ratio Lower Upper
98 100
100 66.5 53.4 80.0

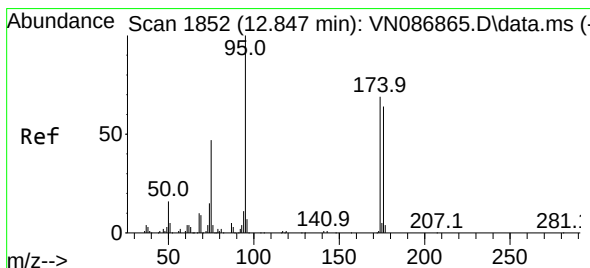
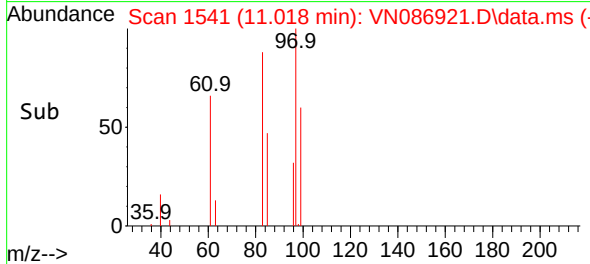
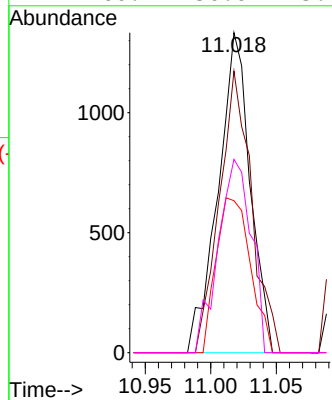
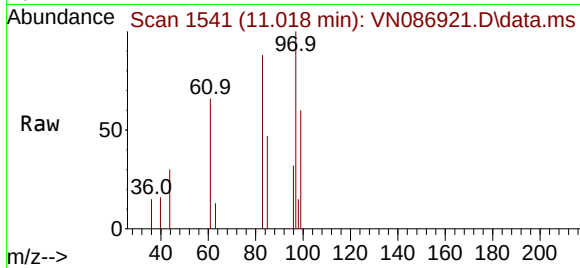




#55
1,1,2-Trichloroethane
Concen: 0.497 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. -0.000 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

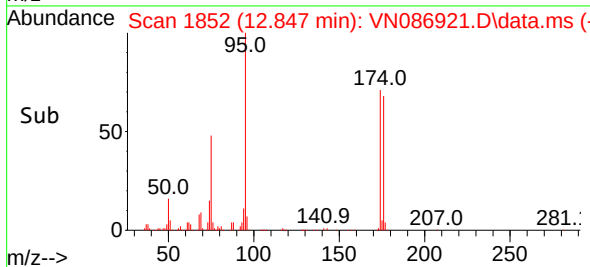
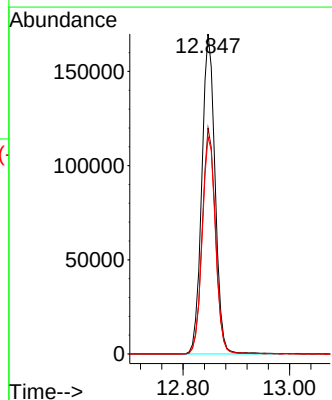
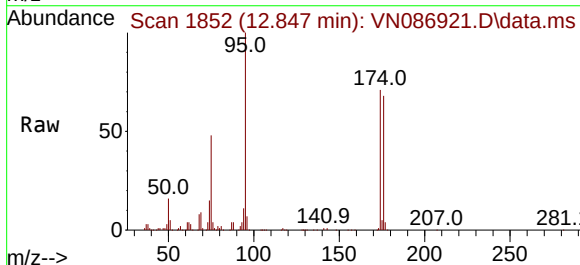
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525

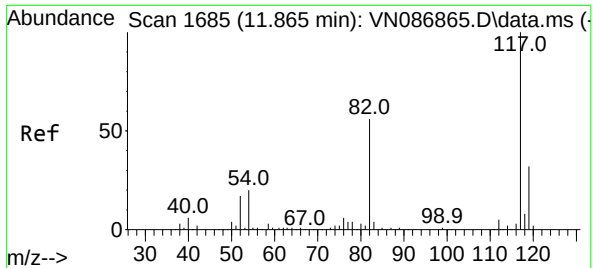
Tgt Ion:	97	Resp:	2269
Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.7	104.5
85	47.5	45.1	67.7
99	60.4	50.6	75.8



#62
4-Bromofluorobenzene
Concen: 50.054 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

Tgt Ion:	95	Resp:	293403
Ion	Ratio	Lower	Upper
95	100		
174	70.2	0.0	141.8
176	68.2	0.0	132.6

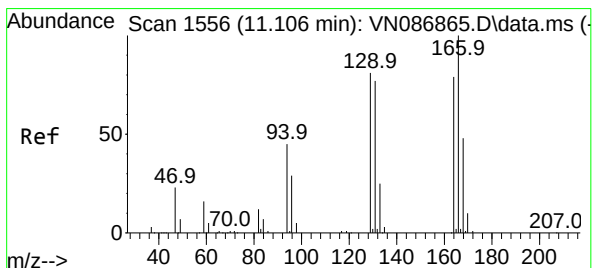
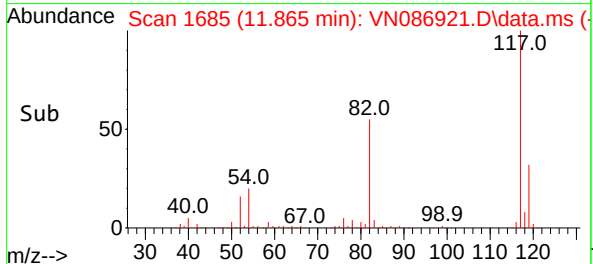
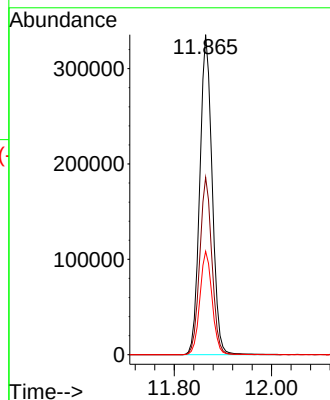
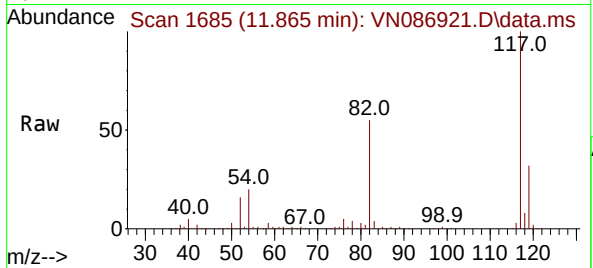




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

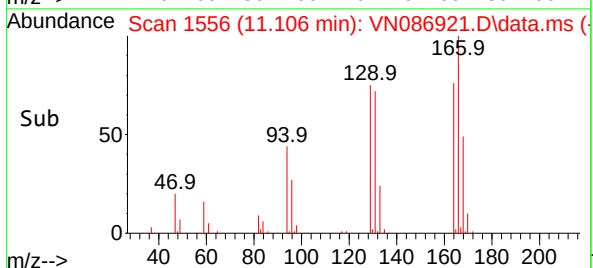
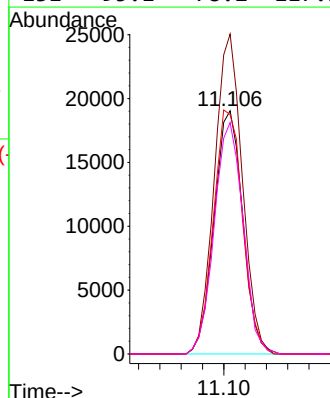
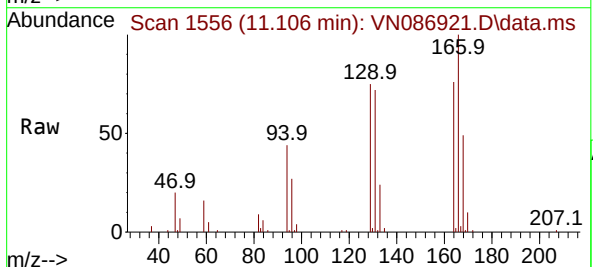
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525

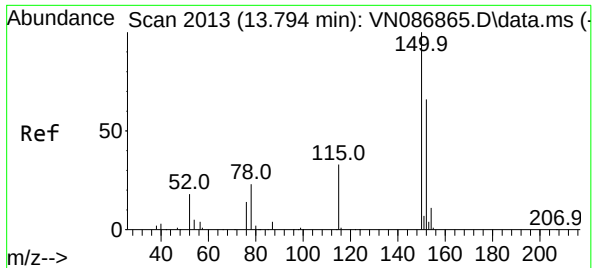
Tgt Ion:117 Resp: 593044
Ion Ratio Lower Upper
117 100
82 55.4 44.6 67.0
119 32.3 25.5 38.3



#64
Tetrachloroethene
Concen: 9.443 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

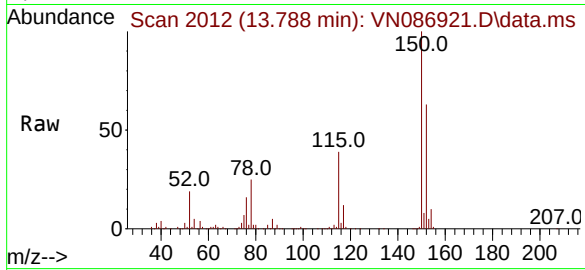
Tgt Ion:164 Resp: 35442
Ion Ratio Lower Upper
164 100
166 131.5 101.8 152.8
129 98.4 83.0 124.4
131 95.1 78.2 117.2



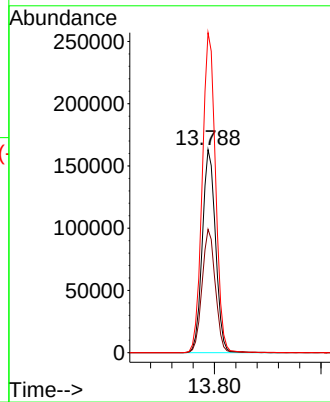
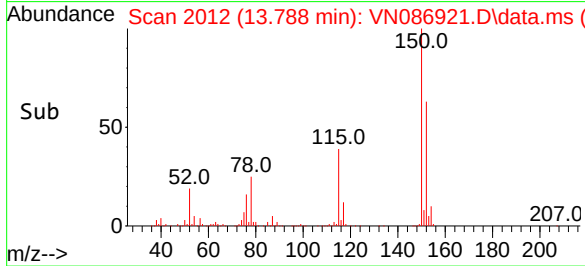


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525



Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.9	30.1	90.5
150	158.4	0.0	345.0



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	MW-11A-13.5-060525DL	SDG No.:	Q2250
Lab Sample ID:	Q2250-01DL	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086948.D	20		06/11/25 15:06	VN061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	6.60	JD	5.20	20.0	ug/L
75-35-4	1,1-Dichloroethene	4.60	UD	4.60	20.0	ug/L
75-34-3	1,1-Dichloroethane	4.60	UD	4.60	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	1000	D	3.80	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	4.00	UD	4.00	20.0	ug/L
71-43-2	Benzene	3.00	UD	3.00	20.0	ug/L
107-06-2	1,2-Dichloroethane	4.40	UD	4.40	20.0	ug/L
79-01-6	Trichloroethene	1700	D	1.90	20.0	ug/L
79-00-5	1,1,2-Trichloroethane	4.20	UD	4.20	20.0	ug/L
127-18-4	Tetrachloroethene	12.2	JD	4.60	20.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.3		70 (74) - 130 (125)	93%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		70 (75) - 130 (124)	97%	SPK: 50
2037-26-5	Toluene-d8	51.1		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	272000	8.236			
540-36-3	1,4-Difluorobenzene	500000	9.106			
3114-55-4	Chlorobenzene-d5	435000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	208000	13.788			

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_N\Data\VN061125\
Data File : VN086948.D
Acq On : 11 Jun 2025 15:06
Operator : JC\MD
Sample : Q2250-01DL 20X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525DL

Quant Time: Jun 12 01:33:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

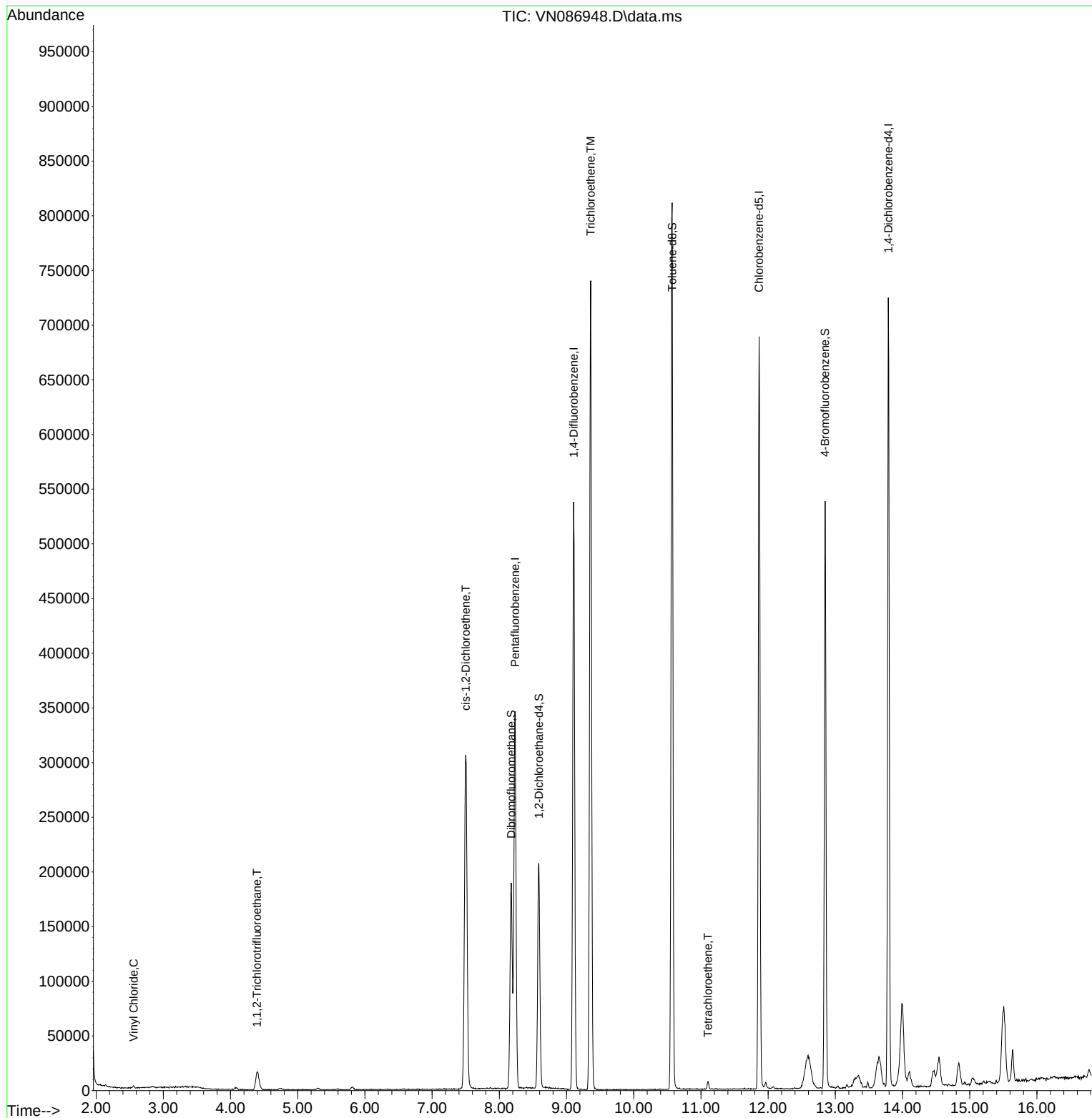
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.236	168	272350	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	500042	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	434591	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	208257	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	168991	46.344	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	92.680%	
35) Dibromofluoromethane	8.177	113	143354	48.375	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	96.760%	
50) Toluene-d8	10.571	98	599641	51.115	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	102.240%	
62) 4-Bromofluorobenzene	12.847	95	214176	49.140	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	98.280%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.559	62	1187	0.328	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.395	101	13861	4.668	ug/l	97
27) cis-1,2-Dichloroethene	7.500	96	208706	51.744	ug/l	89
44) Trichloroethene	9.359	130	290594	84.873	ug/l	98
64) Tetrachloroethene	11.106	164	1673	0.608	ug/l #	78

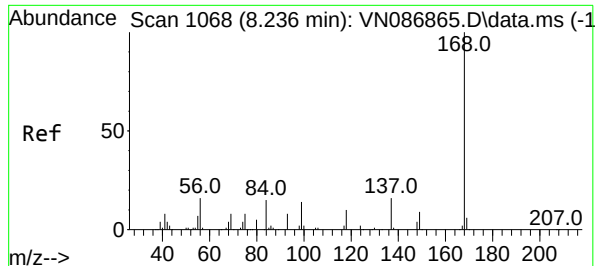
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086948.D
Acq On : 11 Jun 2025 15:06
Operator : JC\MD
Sample : Q2250-01DL 20X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525DL

Quant Time: Jun 12 01:33:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

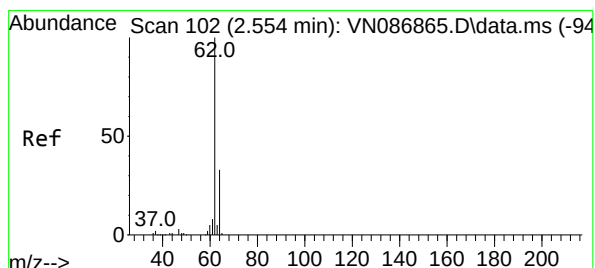
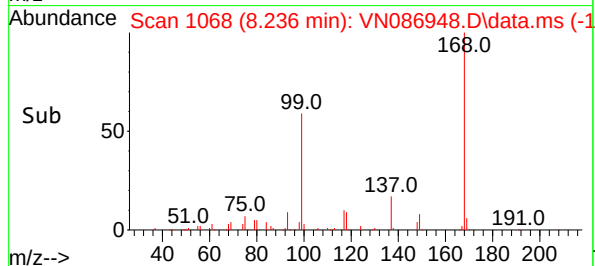
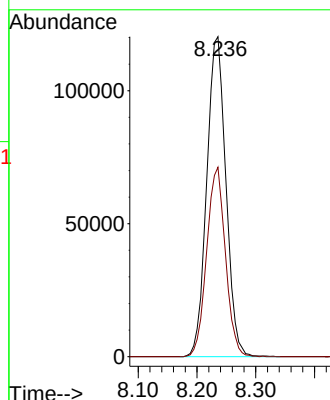
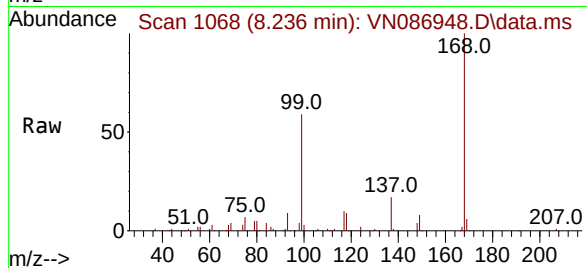




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VN086948.D
Acq: 11 Jun 2025 15:06

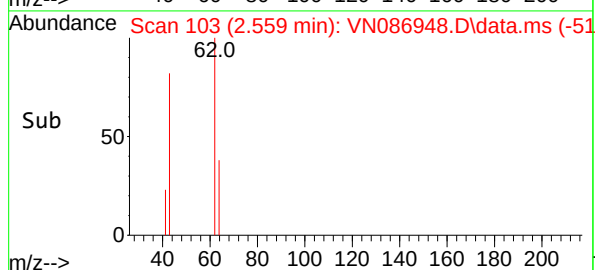
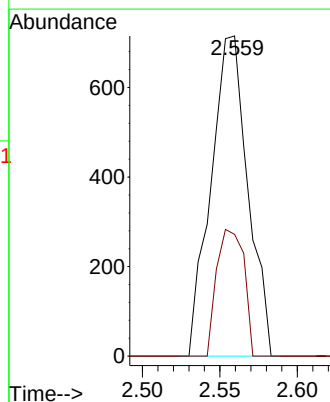
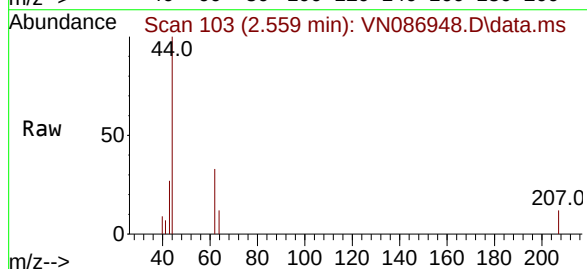
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525DL

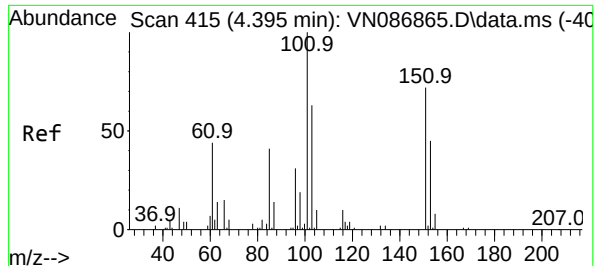
Tgt Ion:168 Resp: 272350
Ion Ratio Lower Upper
168 100
99 59.2 49.1 73.7



#4
Vinyl Chloride
Concen: 0.328 ug/l
RT: 2.559 min Scan# 103
Delta R.T. 0.006 min
Lab File: VN086948.D
Acq: 11 Jun 2025 15:06

Tgt Ion: 62 Resp: 1187
Ion Ratio Lower Upper
62 100
64 38.0 26.0 39.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.668 ug/l

RT: 4.395 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN086948.D

Acq: 11 Jun 2025 15:06

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525DL

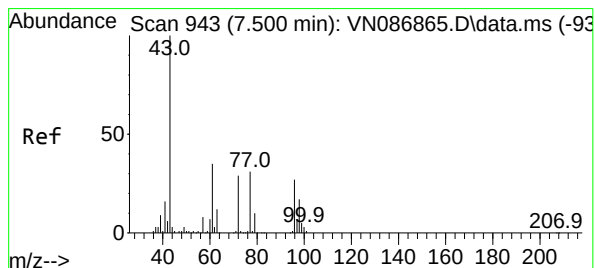
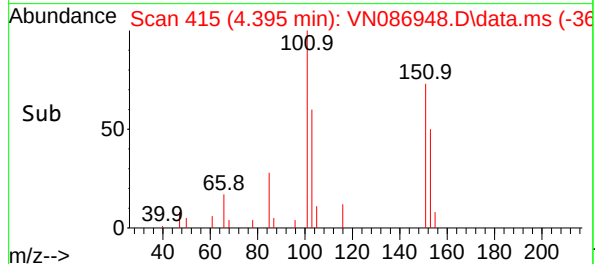
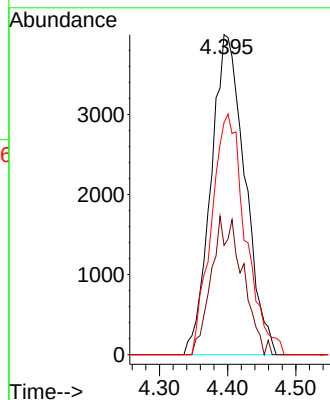
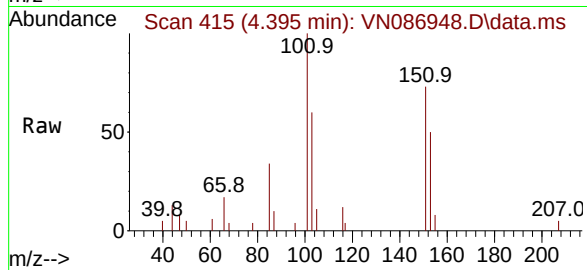
Tgt Ion:101 Resp: 13861

Ion Ratio Lower Upper

101 100

85 39.8 33.8 50.8

151 75.5 58.7 88.1



#27

cis-1,2-Dichloroethene

Concen: 51.744 ug/l

RT: 7.500 min Scan# 943

Delta R.T. 0.000 min

Lab File: VN086948.D

Acq: 11 Jun 2025 15:06

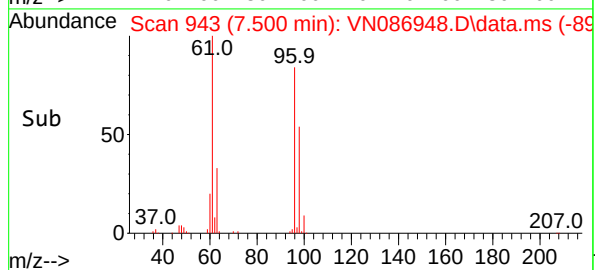
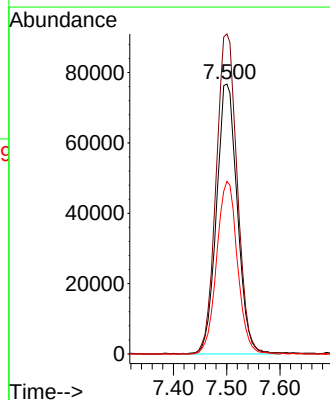
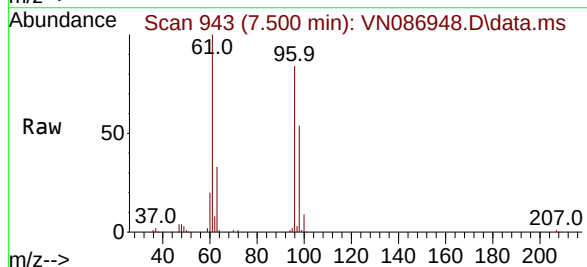
Tgt Ion: 96 Resp: 208706

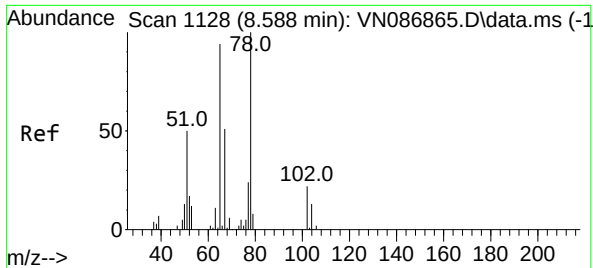
Ion Ratio Lower Upper

96 100

61 120.1 0.0 278.0

98 63.6 0.0 128.2





#33

1,2-Dichloroethane-d4

Concen: 46.344 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.000 min

Lab File: VN086948.D

Acq: 11 Jun 2025 15:06

Instrument :

MSVOA_N

ClientSampleId :

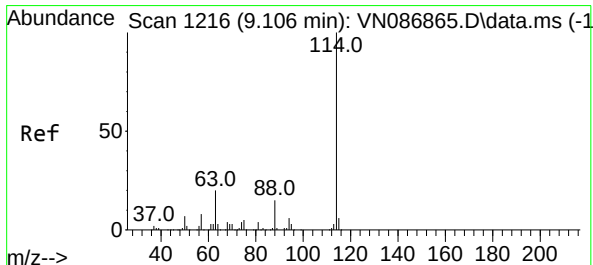
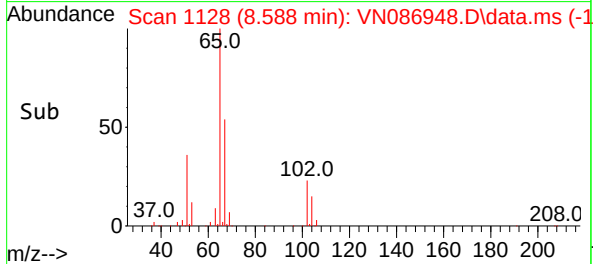
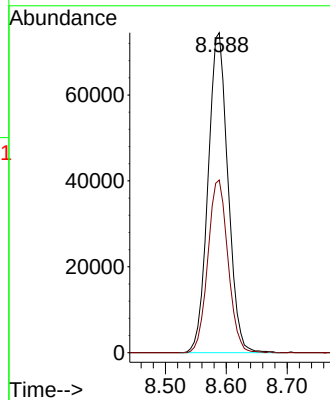
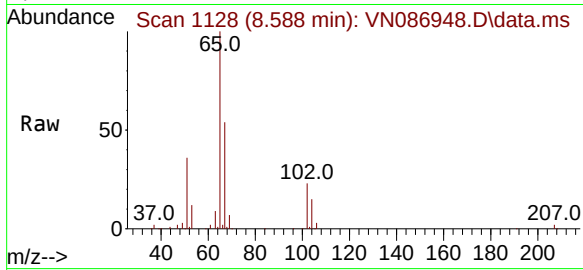
MW-11A-13.5-060525DL

Tgt Ion: 65 Resp: 168991

Ion Ratio Lower Upper

65 100

67 54.6 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN086948.D

Acq: 11 Jun 2025 15:06

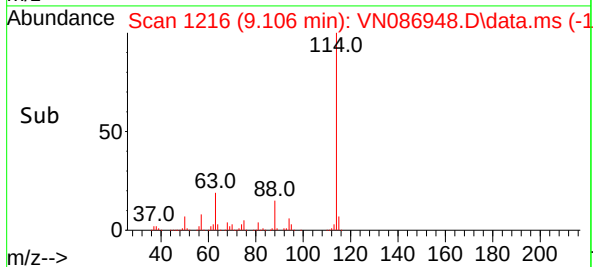
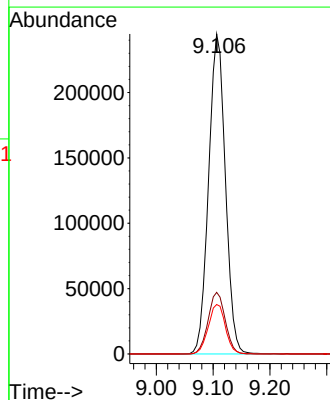
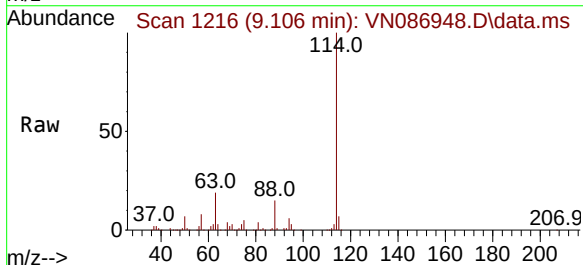
Tgt Ion: 114 Resp: 500042

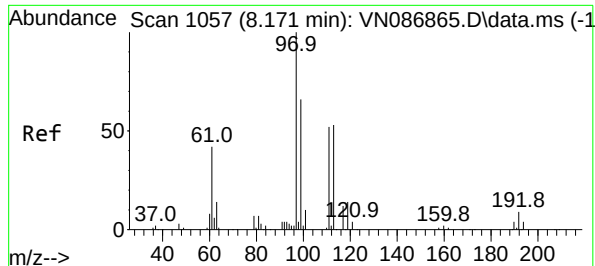
Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.6

88 15.4 0.0 30.2





#35

Dibromofluoromethane

Concen: 48.375 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086948.D

Acq: 11 Jun 2025 15:06

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525DL

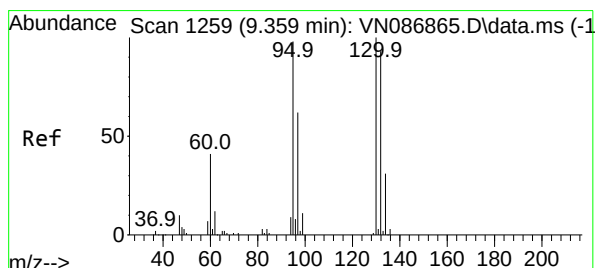
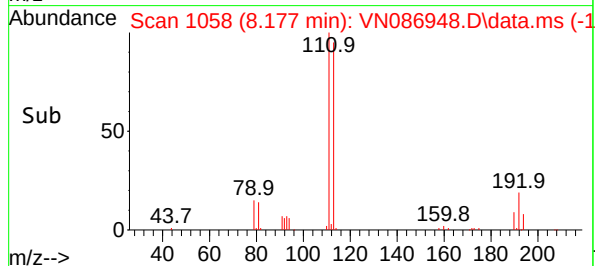
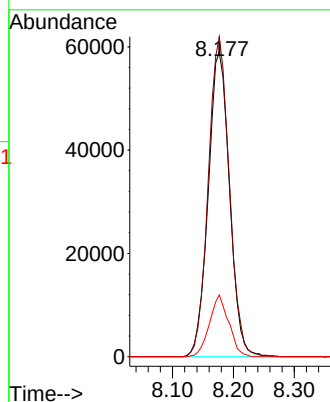
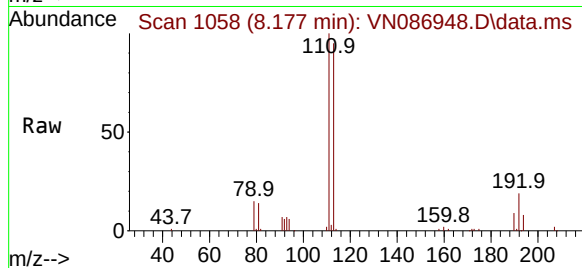
Tgt Ion:113 Resp: 143354

Ion Ratio Lower Upper

113 100

111 103.8 84.2 126.2

192 18.3 14.2 21.4



#44

Trichloroethene

Concen: 84.873 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. 0.000 min

Lab File: VN086948.D

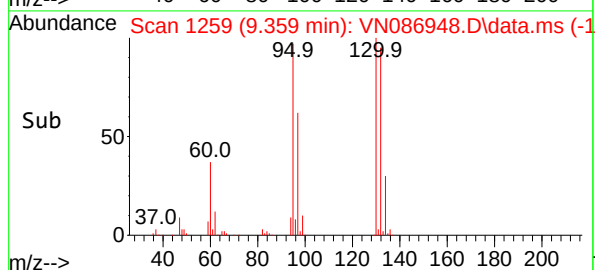
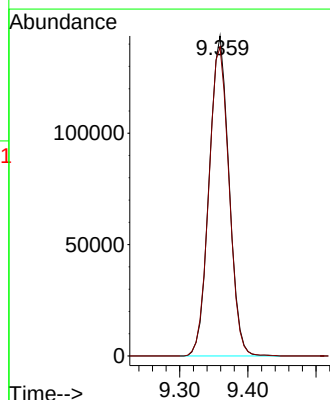
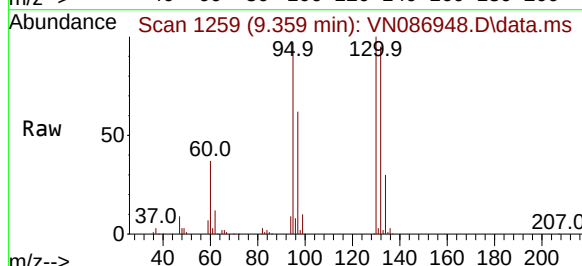
Acq: 11 Jun 2025 15:06

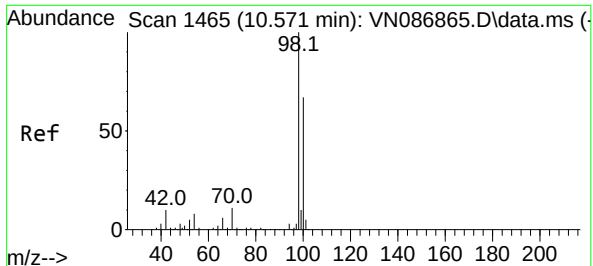
Tgt Ion:130 Resp: 290594

Ion Ratio Lower Upper

130 100

95 96.5 0.0 196.2

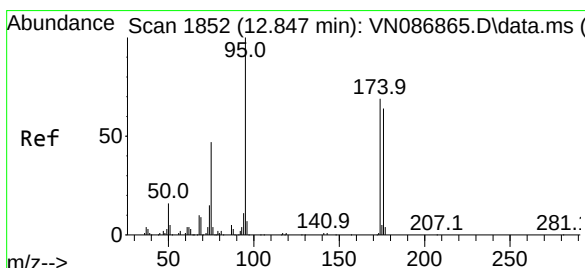
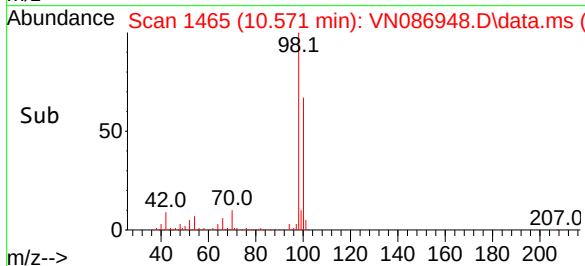
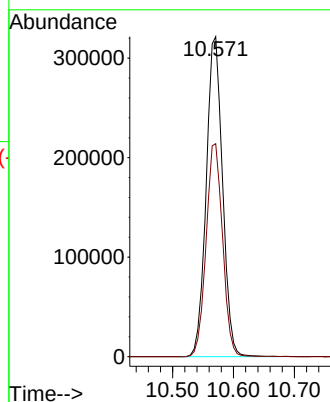
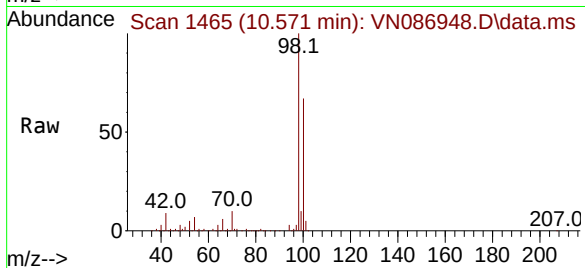




#50
Toluene-d8
Concen: 51.115 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN086948.D
Acq: 11 Jun 2025 15:06

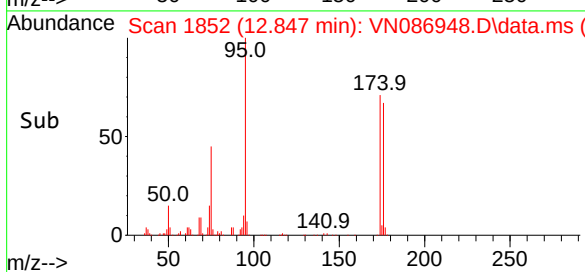
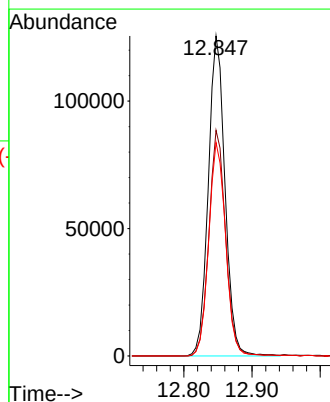
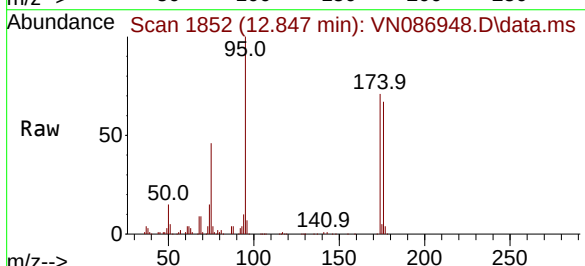
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525DL

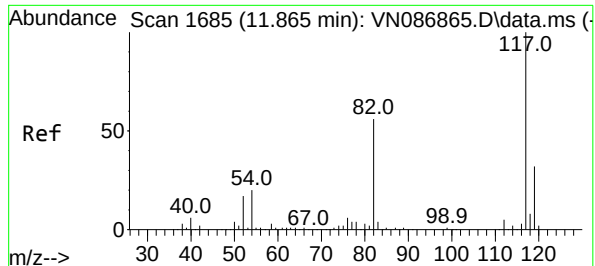
Tgt Ion: 98 Resp: 599641
Ion Ratio Lower Upper
98 100
100 67.1 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 49.140 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086948.D
Acq: 11 Jun 2025 15:06

Tgt Ion: 95 Resp: 214176
Ion Ratio Lower Upper
95 100
174 70.6 0.0 141.8
176 67.6 0.0 132.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086948.D

Acq: 11 Jun 2025 15:06

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525DL

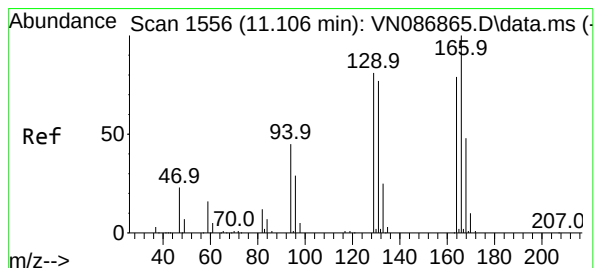
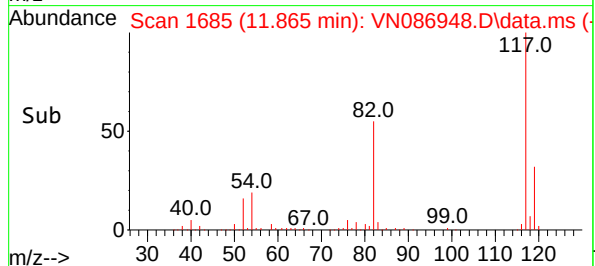
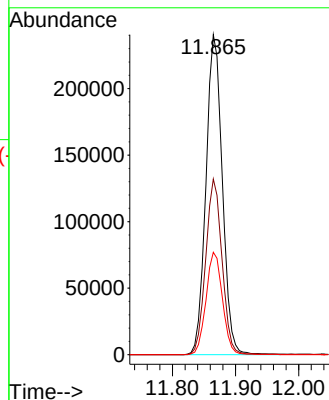
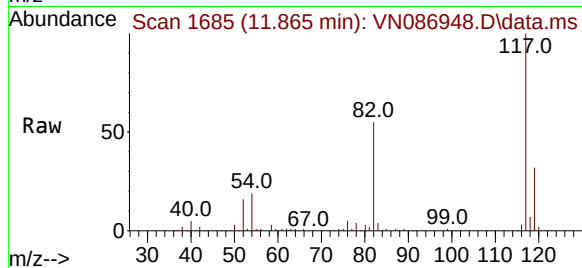
Tgt Ion:117 Resp: 434591

Ion Ratio Lower Upper

117 100

82 54.9 44.6 67.0

119 32.0 25.5 38.3



#64

Tetrachloroethene

Concen: 0.608 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. 0.000 min

Lab File: VN086948.D

Acq: 11 Jun 2025 15:06

Tgt Ion:164 Resp: 1673

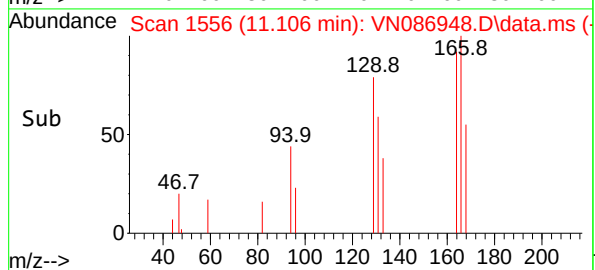
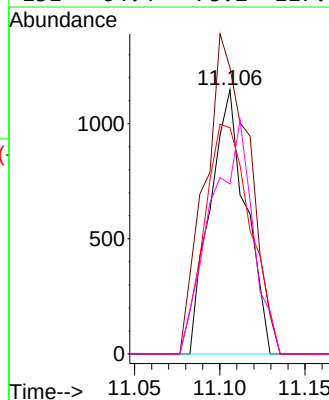
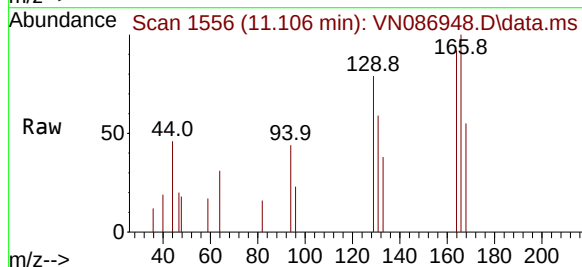
Ion Ratio Lower Upper

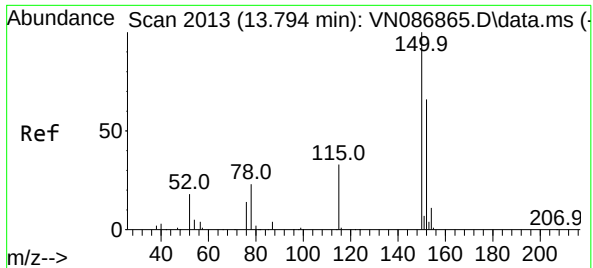
164 100

166 108.4 101.8 152.8

129 85.6 83.0 124.4

131 64.4 78.2 117.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.006 min

Lab File: VN086948.D

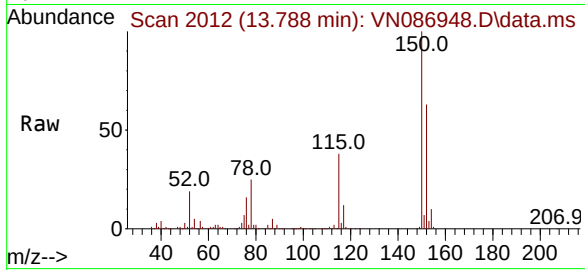
Acq: 11 Jun 2025 15:06

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525DL



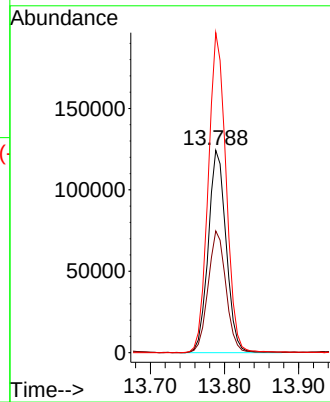
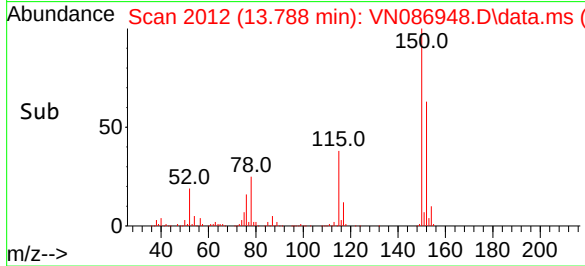
Tgt Ion:152 Resp: 208257

Ion Ratio Lower Upper

152 100

115 60.5 30.1 90.5

150 157.5 0.0 345.0



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	EB02-060525	SDG No.:	Q2250
Lab Sample ID:	Q2250-05	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086919.D	1		06/10/25 11:47	VN061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.9		70 (74) - 130 (125)	96%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		70 (75) - 130 (124)	98%	SPK: 50
2037-26-5	Toluene-d8	51.5		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	233000	8.23			
540-36-3	1,4-Difluorobenzene	433000	9.106			
3114-55-4	Chlorobenzene-d5	381000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	180000	13.788			

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_N\Data\VN061025\
Data File : VN086919.D
Acq On : 10 Jun 2025 11:47
Operator : JC\MD
Sample : Q2250-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EB02-060525

Quant Time: Jun 11 01:51:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

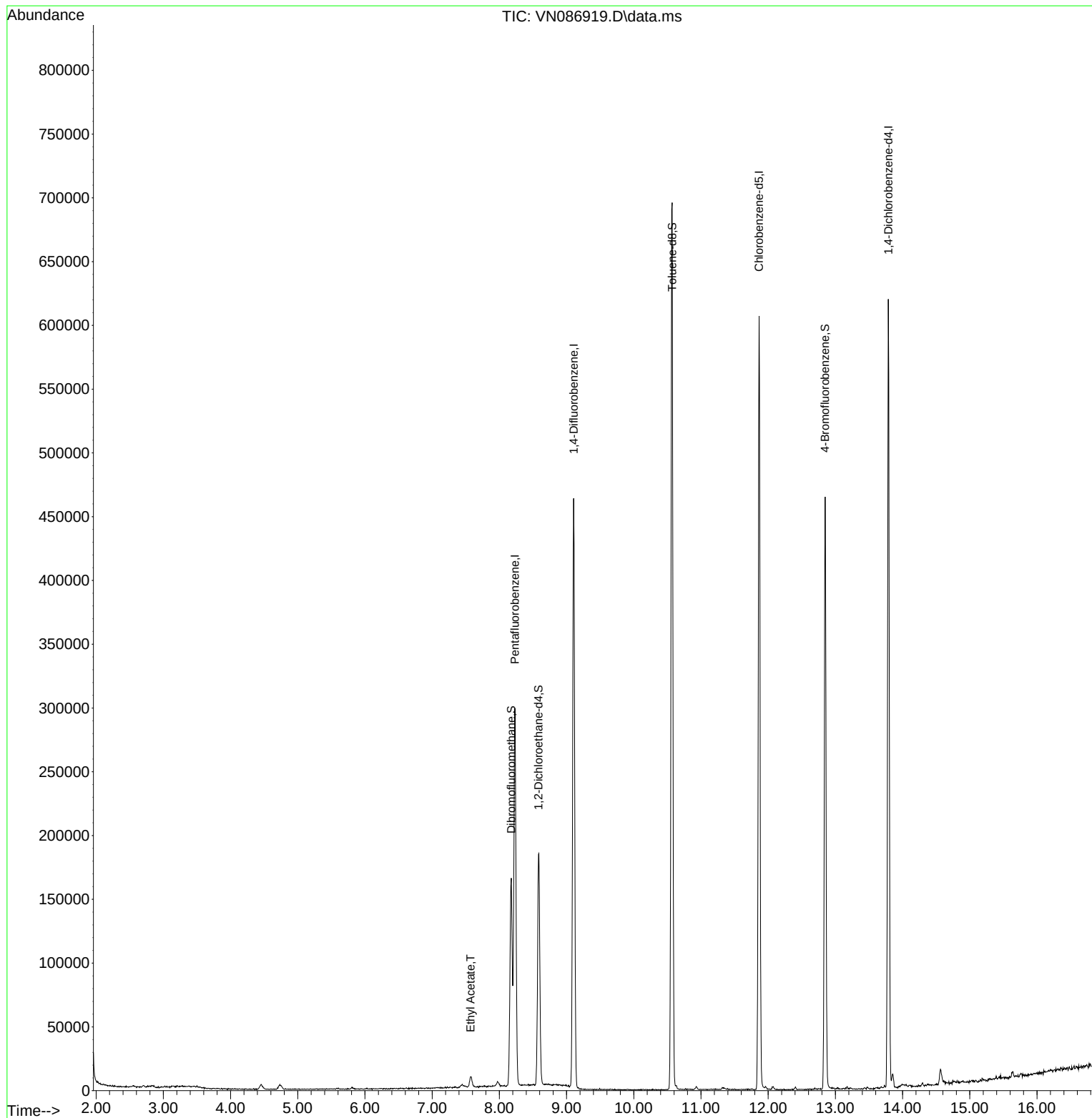
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	232754	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	433385	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	381245	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	180063	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	149250	47.893	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	95.780%	
35) Dibromofluoromethane	8.177	113	125229	48.759	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	97.520%	
50) Toluene-d8	10.571	98	523905	51.528	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	103.060%	
62) 4-Bromofluorobenzene	12.847	95	184714	48.899	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	97.800%	
Target Compounds						
37) Ethyl Acetate	7.571	43	12844	2.636	ug/l	Qvalue 98

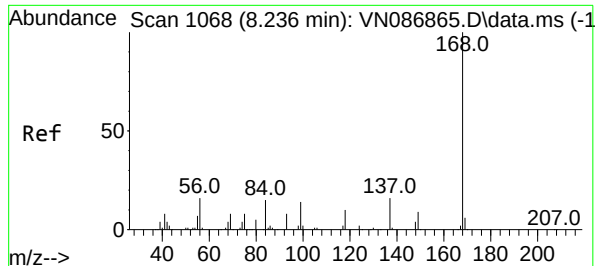
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086919.D
Acq On : 10 Jun 2025 11:47
Operator : JC\MD
Sample : Q2250-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EB02-060525

Quant Time: Jun 11 01:51:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

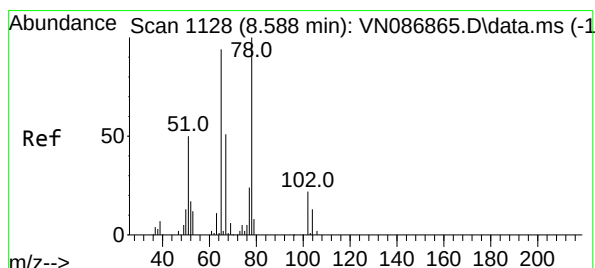
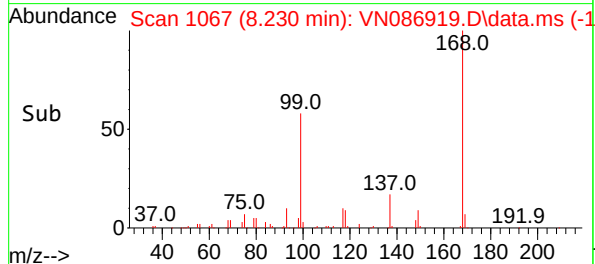
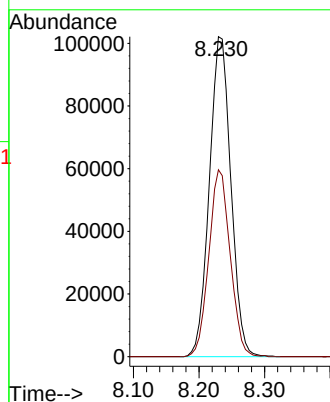
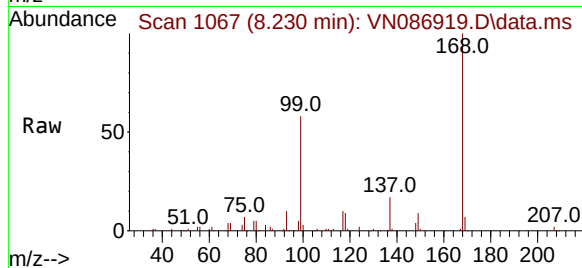




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086919.D
Acq: 10 Jun 2025 11:47

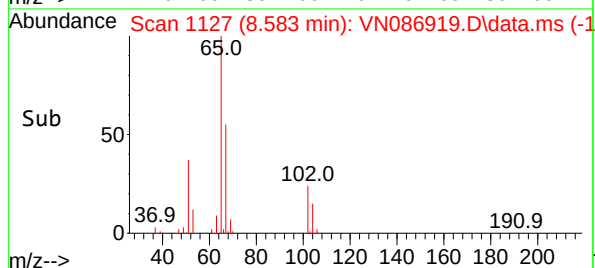
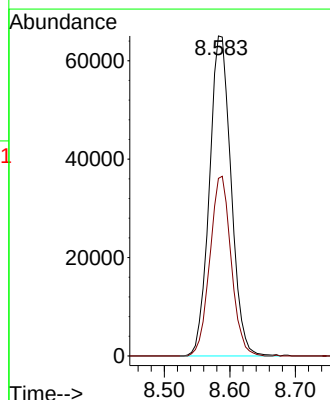
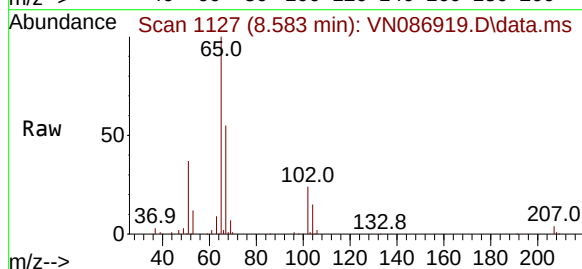
Instrument :
MSVOA_N
ClientSampleId :
EB02-060525

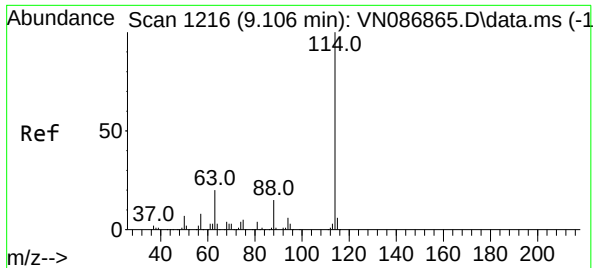
Tgt Ion:168 Resp: 232754
Ion Ratio Lower Upper
168 100
99 58.4 49.1 73.7



#33
1,2-Dichloroethane-d4
Concen: 47.893 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN086919.D
Acq: 10 Jun 2025 11:47

Tgt Ion: 65 Resp: 149250
Ion Ratio Lower Upper
65 100
67 55.1 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086919.D

Acq: 10 Jun 2025 11:47

Instrument :

MSVOA_N

ClientSampleId :

EB02-060525

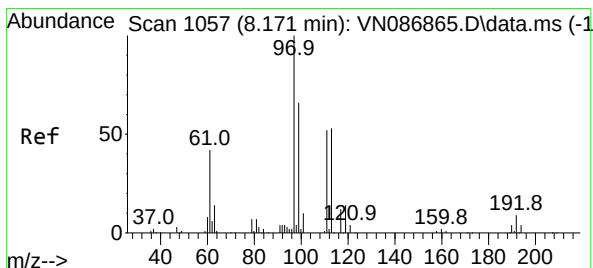
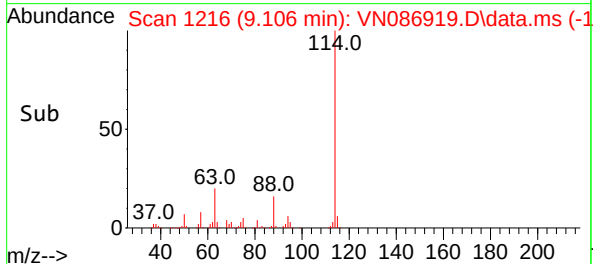
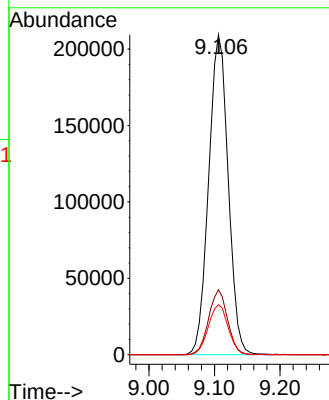
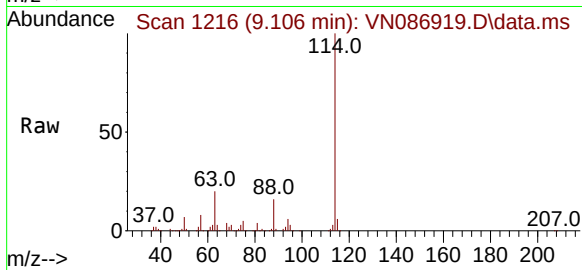
Tgt Ion:114 Resp: 433385

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.6

88 15.6 0.0 30.2



#35

Dibromofluoromethane

Concen: 48.759 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086919.D

Acq: 10 Jun 2025 11:47

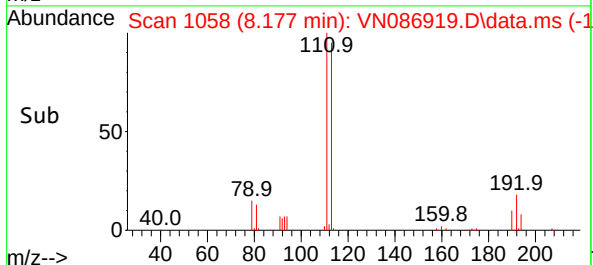
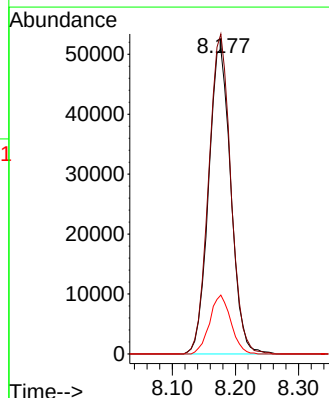
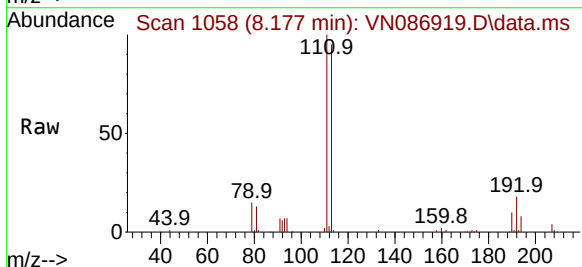
Tgt Ion:113 Resp: 125229

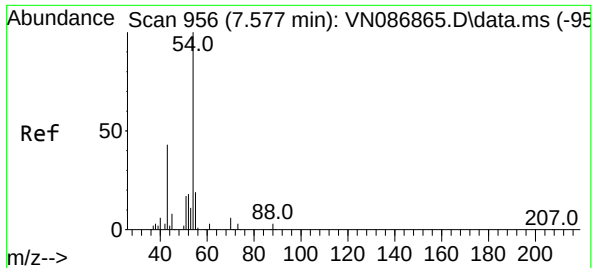
Ion Ratio Lower Upper

113 100

111 103.7 84.2 126.2

192 18.4 14.2 21.4





#37

Ethyl Acetate

Concen: 2.636 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086919.D

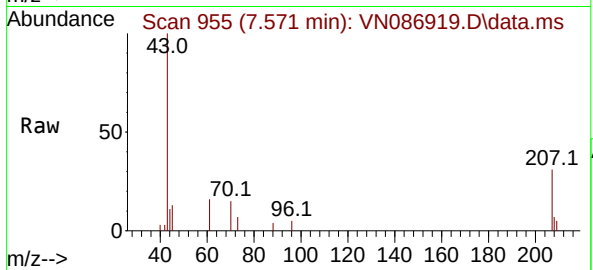
Acq: 10 Jun 2025 11:47

Instrument :

MSVOA_N

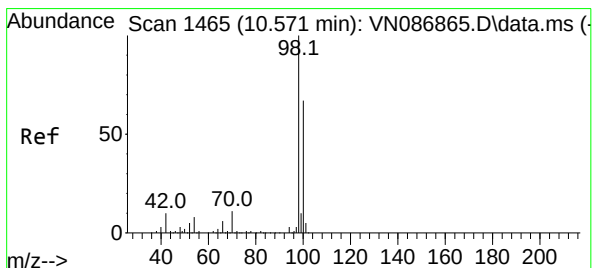
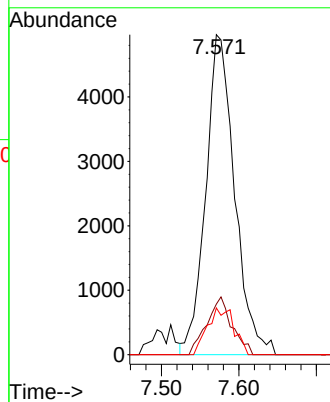
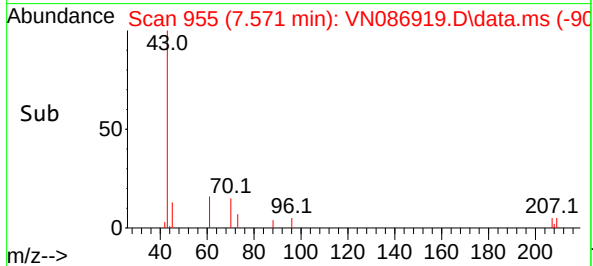
ClientSampleId :

EB02-060525



Tgt Ion: 43 Resp: 12844

Ion	Ratio	Lower	Upper
43	100		
61	15.8	12.1	18.1
70	13.4	9.8	14.6



#50

Toluene-d8

Concen: 51.528 ug/l

RT: 10.571 min Scan# 1465

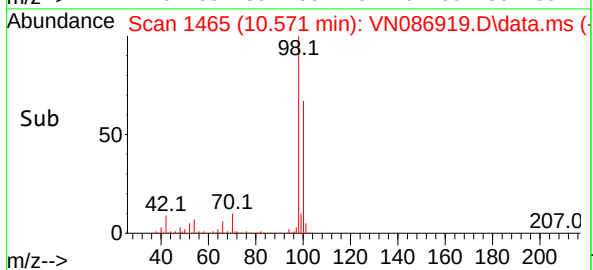
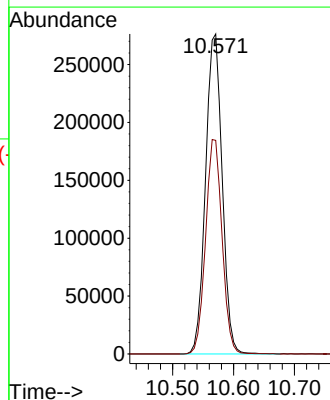
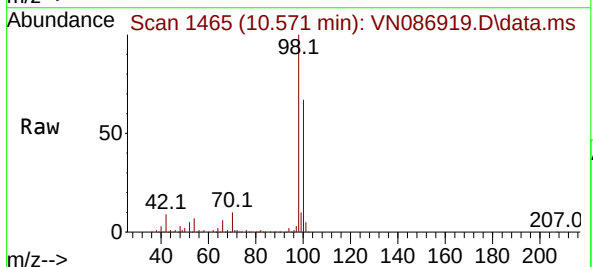
Delta R.T. -0.000 min

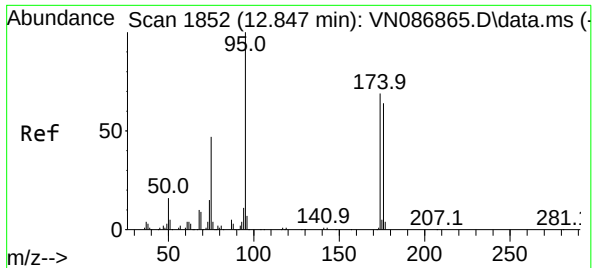
Lab File: VN086919.D

Acq: 10 Jun 2025 11:47

Tgt Ion: 98 Resp: 523905

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.4	80.0

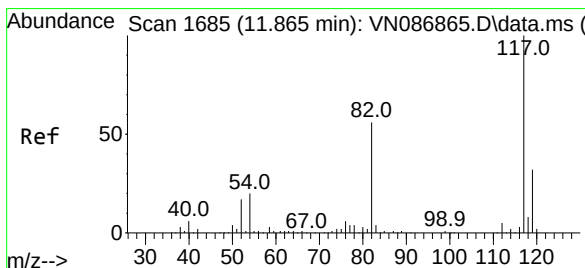
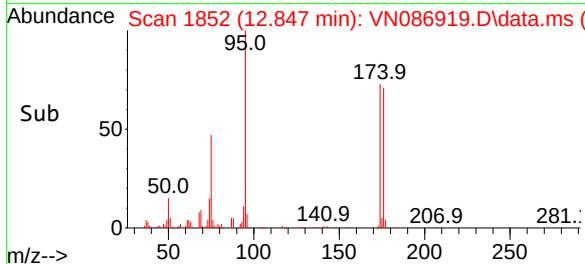
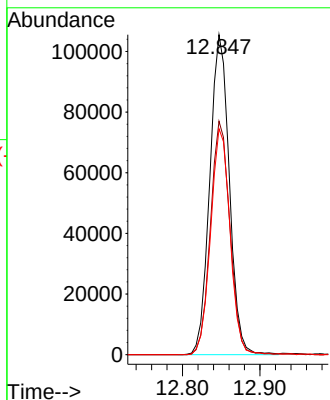
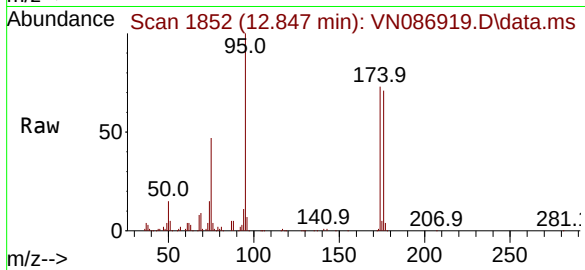




#62
4-Bromofluorobenzene
Concen: 48.899 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086919.D
Acq: 10 Jun 2025 11:47

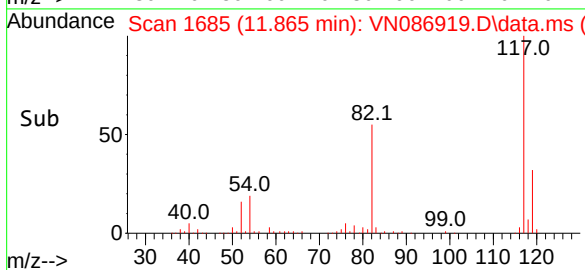
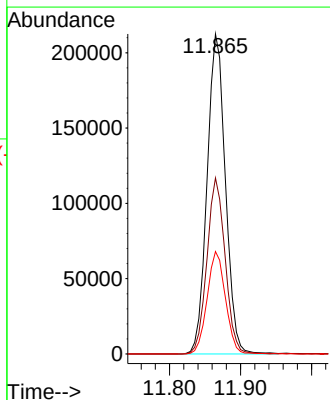
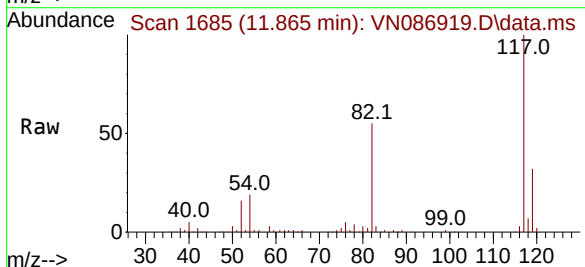
Instrument :
MSVOA_N
ClientSampleId :
EB02-060525

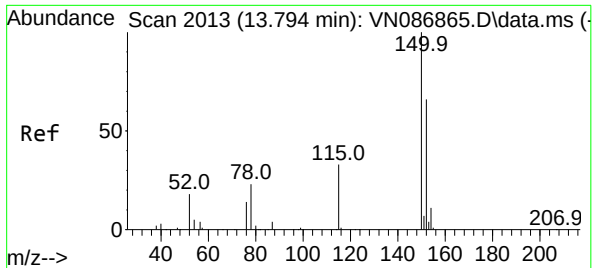
Tgt Ion: 95 Resp: 184714
Ion Ratio Lower Upper
95 100
174 73.1 0.0 141.8
176 70.0 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086919.D
Acq: 10 Jun 2025 11:47

Tgt Ion: 117 Resp: 381245
Ion Ratio Lower Upper
117 100
82 55.0 44.6 67.0
119 32.0 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.006 min

Lab File: VN086919.D

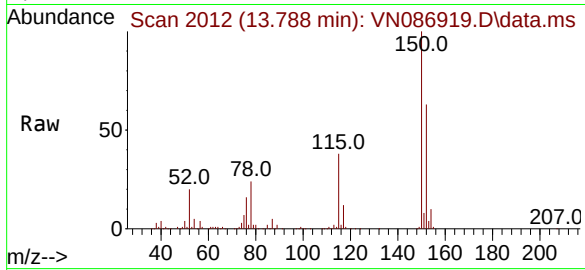
Acq: 10 Jun 2025 11:47

Instrument :

MSVOA_N

ClientSampleId :

EB02-060525



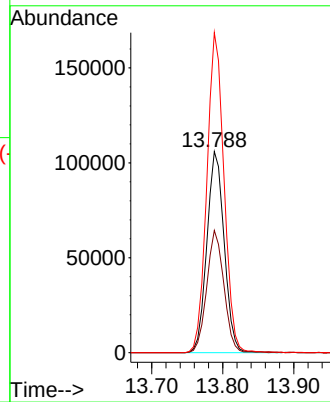
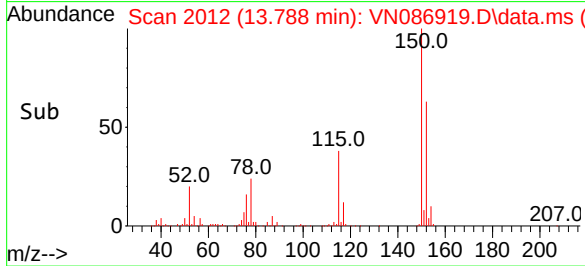
Tgt Ion:152 Resp: 180063

Ion Ratio Lower Upper

152 100

115 60.2 30.1 90.5

150 157.3 0.0 345.0



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	TB-01-060525	SDG No.:	Q2250
Lab Sample ID:	Q2250-06	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086920.D	1		06/10/25 12:08	VN061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.2		70 (74) - 130 (125)	94%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		70 (75) - 130 (124)	98%	SPK: 50
2037-26-5	Toluene-d8	51.1		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	350000	8.23			
540-36-3	1,4-Difluorobenzene	649000	9.106			
3114-55-4	Chlorobenzene-d5	564000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	266000	13.788			

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_N\Data\VN061025\
Data File : VN086920.D
Acq On : 10 Jun 2025 12:08
Operator : JC\MD
Sample : Q2250-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-01-060525

Quant Time: Jun 11 01:51:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	350151	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	648560	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	563762	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	266280	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	221297	47.204	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	94.400%
35) Dibromofluoromethane	8.177	113	187512	48.787	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.580%
50) Toluene-d8	10.565	98	777698	51.112	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.220%
62) 4-Bromofluorobenzene	12.847	95	277459	49.082	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.160%

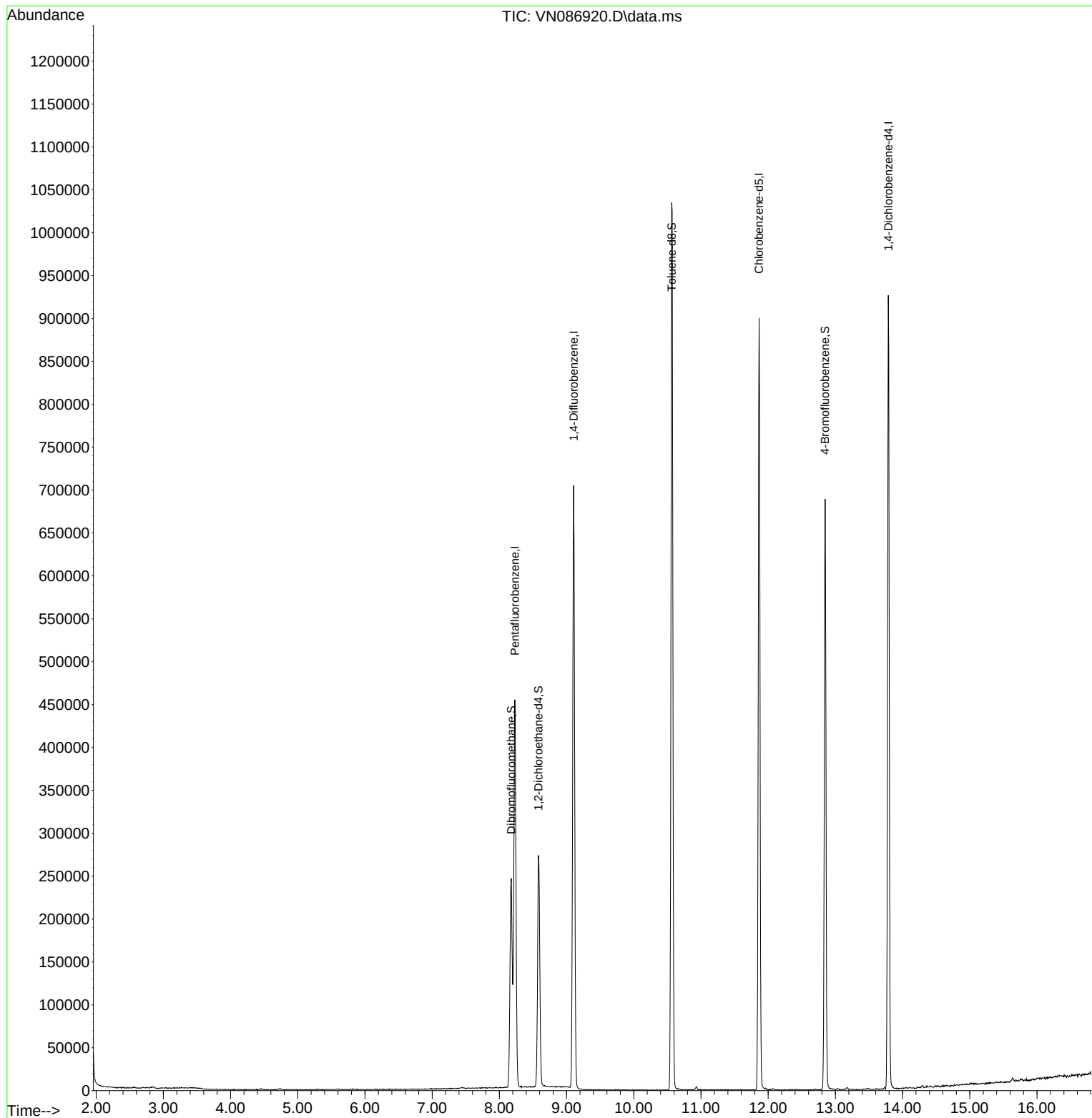
Target Compounds	Qvalue
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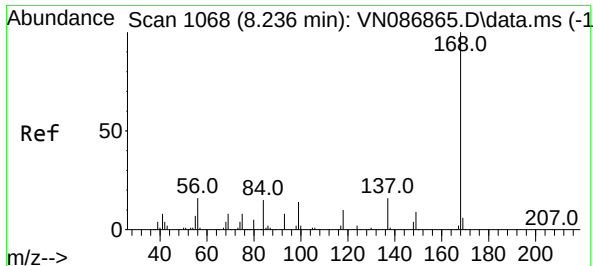
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086920.D
Acq On : 10 Jun 2025 12:08
Operator : JC\MD
Sample : Q2250-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-01-060525

Quant Time: Jun 11 01:51:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

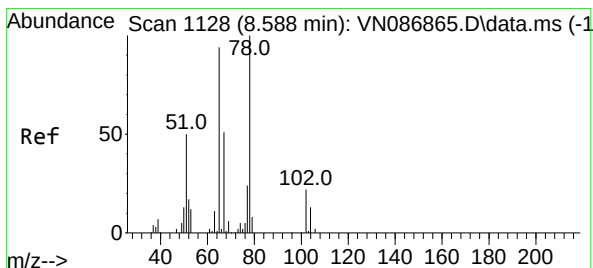
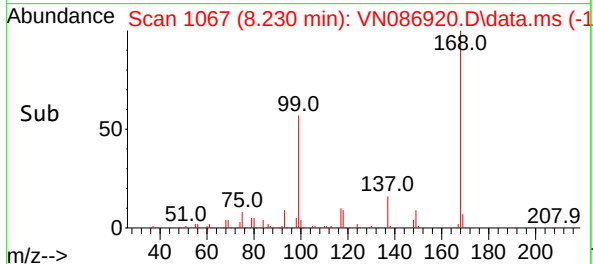
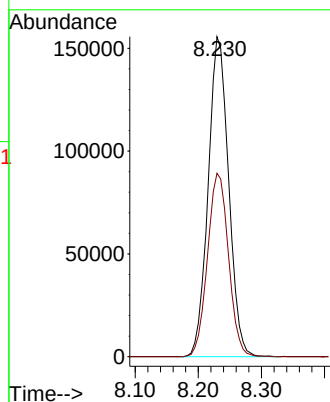
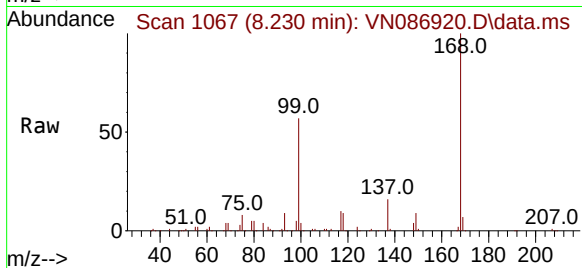




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086920.D
Acq: 10 Jun 2025 12:08

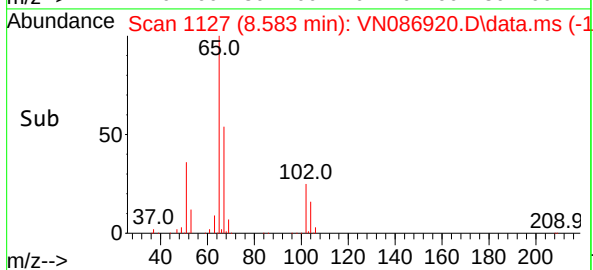
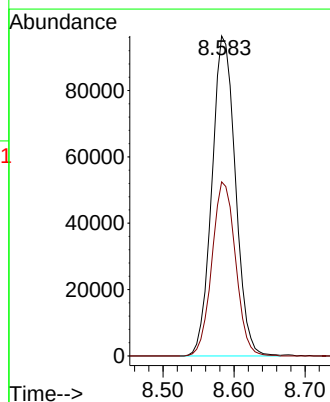
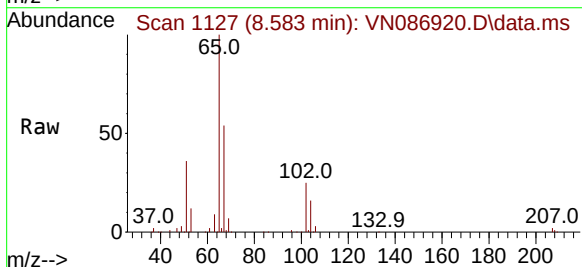
Instrument :
MSVOA_N
ClientSampleId :
TB-01-060525

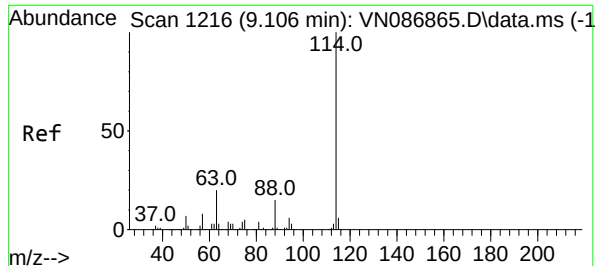
Tgt Ion:168 Resp: 350151
Ion Ratio Lower Upper
168 100
99 57.3 49.1 73.7



#33
1,2-Dichloroethane-d4
Concen: 47.204 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN086920.D
Acq: 10 Jun 2025 12:08

Tgt Ion: 65 Resp: 221297
Ion Ratio Lower Upper
65 100
67 54.6 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086920.D

Acq: 10 Jun 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

TB-01-060525

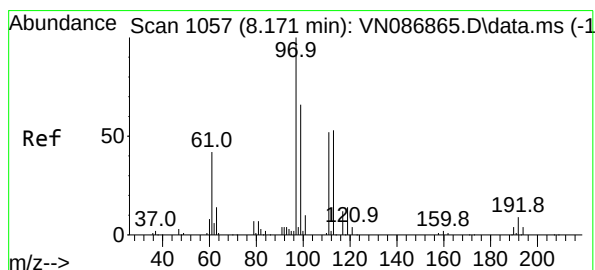
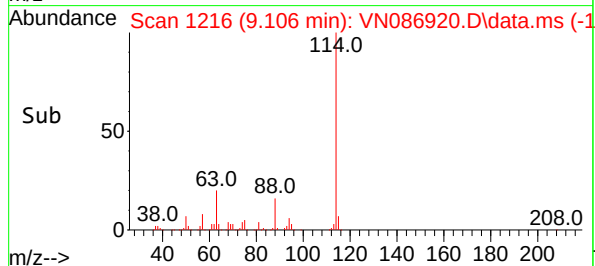
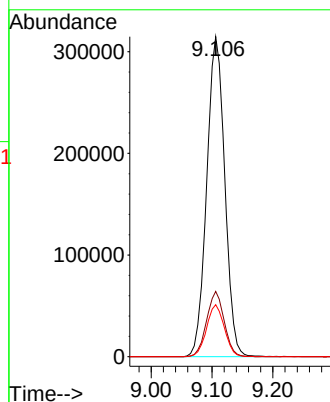
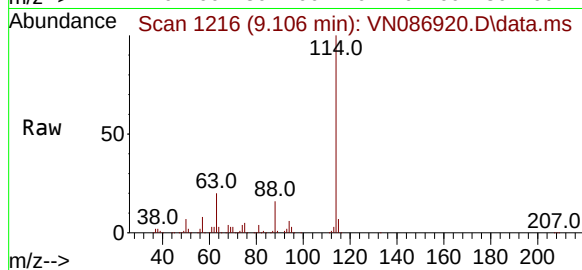
Tgt Ion:114 Resp: 648560

Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.6

88 16.2 0.0 30.2



#35

Dibromofluoromethane

Concen: 48.787 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086920.D

Acq: 10 Jun 2025 12:08

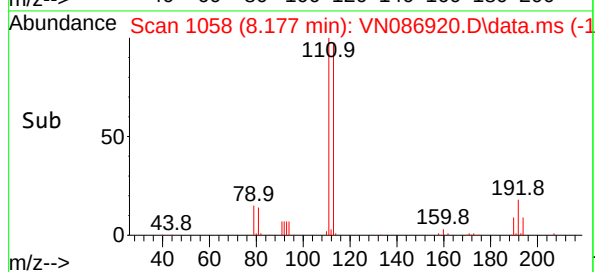
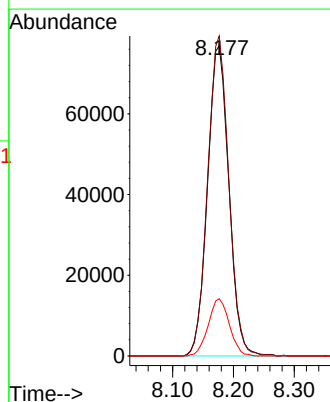
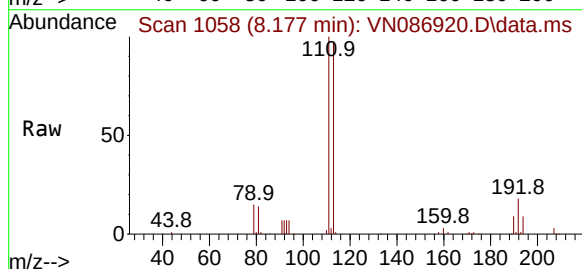
Tgt Ion:113 Resp: 187512

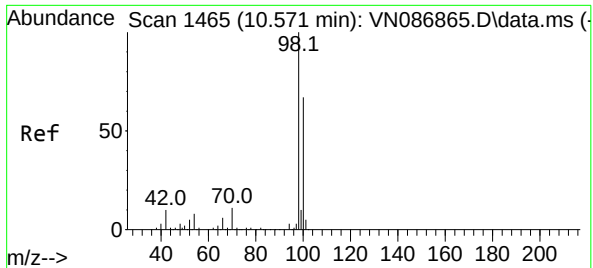
Ion Ratio Lower Upper

113 100

111 102.2 84.2 126.2

192 18.2 14.2 21.4

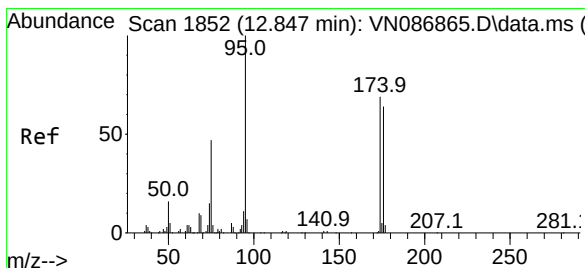
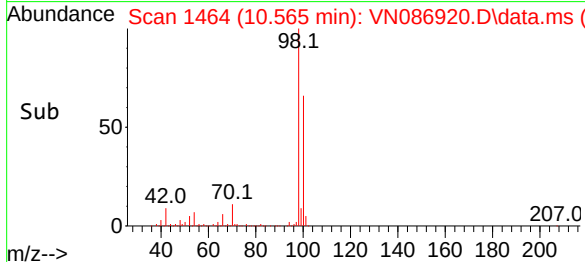
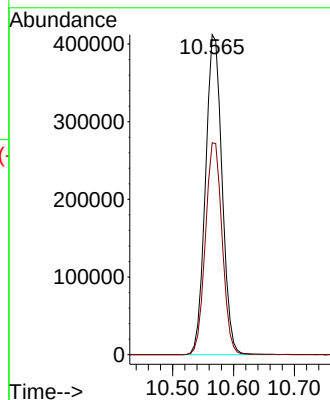
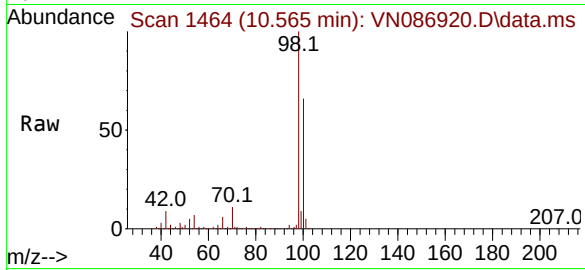




#50
Toluene-d8
Concen: 51.112 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN086920.D
Acq: 10 Jun 2025 12:08

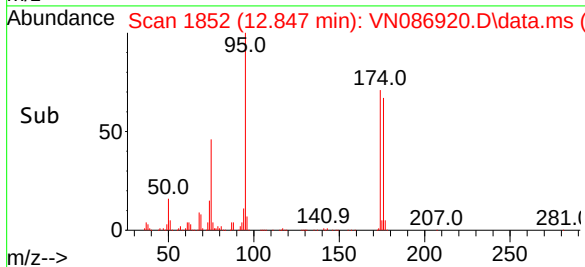
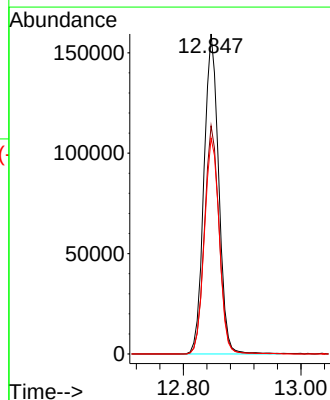
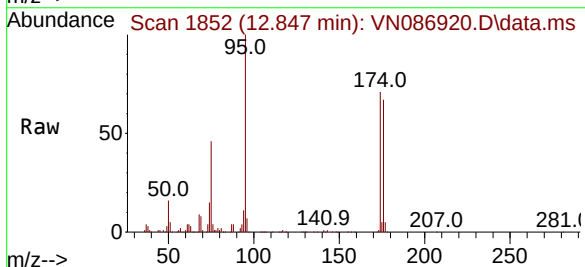
Instrument :
MSVOA_N
ClientSampleId :
TB-01-060525

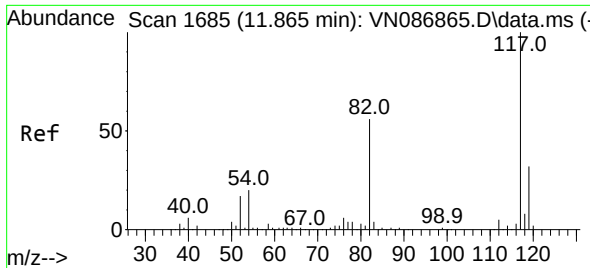
Tgt Ion: 98 Resp: 777698
Ion Ratio Lower Upper
98 100
100 66.9 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 49.082 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086920.D
Acq: 10 Jun 2025 12:08

Tgt Ion: 95 Resp: 277459
Ion Ratio Lower Upper
95 100
174 70.9 0.0 141.8
176 67.9 0.0 132.6

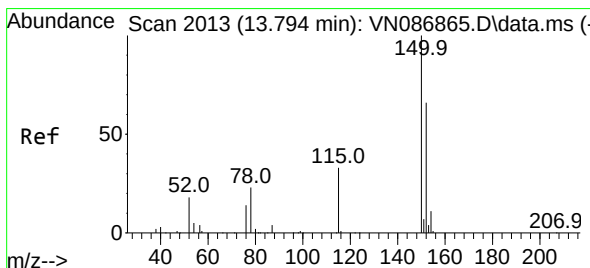
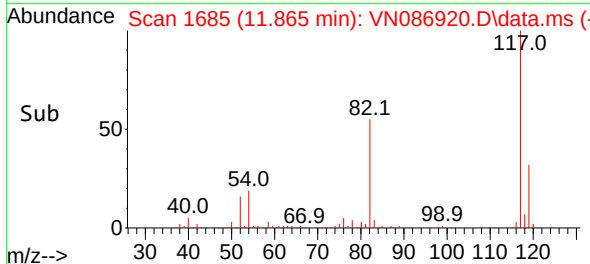
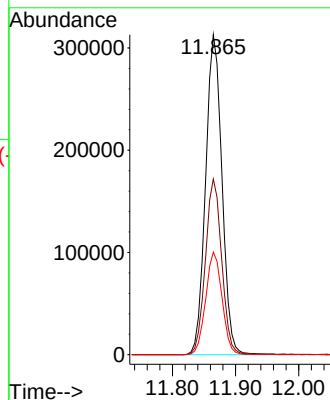
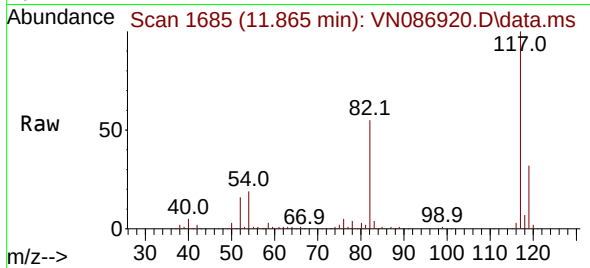




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086920.D
Acq: 10 Jun 2025 12:08

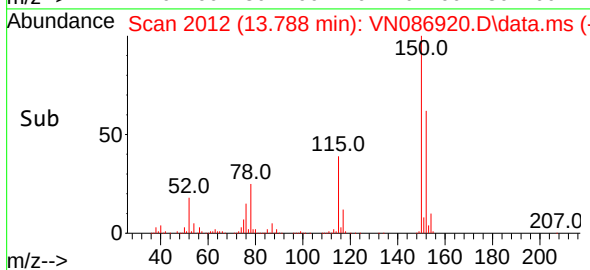
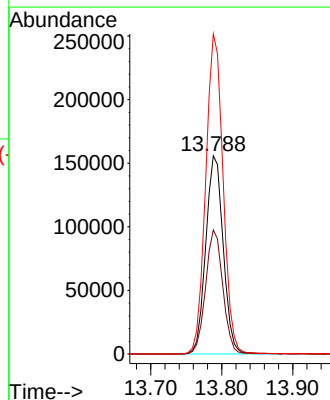
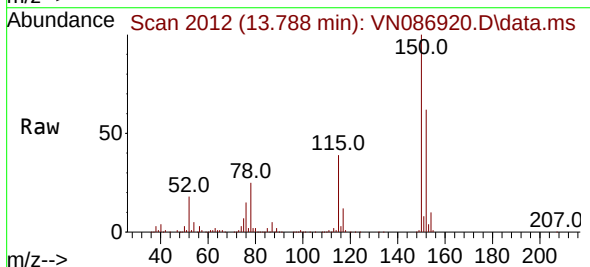
Instrument :
MSVOA_N
ClientSampleId :
TB-01-060525

Tgt Ion:117 Resp: 563762
Ion Ratio Lower Upper
117 100
82 54.9 44.6 67.0
119 32.1 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN086920.D
Acq: 10 Jun 2025 12:08

Tgt Ion:152 Resp: 266280
Ion Ratio Lower Upper
152 100
115 61.7 30.1 90.5
150 160.6 0.0 345.0





CALIBRATION SUMMARY

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JAC005
 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG No.: Q2250
 Instrument ID: MSVOA_N Calibration Date(s): 06/06/2025 06/06/2025
 Heated Purge: (Y/N) N Calibration Time(s): 12:44 14:49
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF001 = VN086862.D		RRF005 = VN086863.D		RRF020 = VN086864.D			
		RRF050 = VN086865.D		RRF100 = VN086866.D		RRF150 = VN086867.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Vinyl Chloride	0.670	0.670	0.684	0.640	0.673	0.648	0.664	2.5	
1,1-Dichloroethene	0.573	0.593	0.563	0.533	0.550	0.527	0.557	4.4	
1,1-Dichloroethane	1.192	1.153	1.156	1.063	1.110	1.043	1.120	5.2	
cis-1,2-Dichloroethene	0.786	0.766	0.762	0.699	0.729	0.701	0.740	4.9	
1,1,1-Trichloroethane	1.029	0.995	0.969	0.895	0.925	0.893	0.951	5.9	
Benzene	1.588	1.501	1.444	1.345	1.414	1.371	1.444	6.2	
1,2-Dichloroethane	0.473	0.456	0.444	0.411	0.430	0.413	0.438	5.6	
Trichloroethene	0.359	0.360	0.341	0.327	0.340	0.328	0.342	4.2	
1,1,2-Trichloroethane	0.359	0.355	0.342	0.322	0.335	0.323	0.340	4.7	
Tetrachloroethene	0.355	0.331	0.312	0.294	0.313	0.293	0.316	7.5	
1,2-Dichloroethane-d4		0.732	0.707	0.500	0.656	0.751	0.669	15.1	
Dibromofluoromethane		0.303	0.310	0.219	0.298	0.351	0.296	16.2	
Toluene-d8		1.245	1.203	0.861	1.178	1.377	1.173	16.2	
4-Bromofluorobenzene		0.441	0.446	0.325	0.446	0.521	0.436	16.2	

* 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_N\methods\
 Method File : 82N060625W.M
 Title : SW846 8260
 Last Update : Sat Jun 07 02:12:50 2025
 Response Via : Initial Calibration

Calibration Files

1 =VN086862.D 5 =VN086863.D 20 =VN086864.D 50 =VN086865.D 100 =VN086866.D 150 =VN086867.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.467	0.444	0.539	0.501	0.535	0.506	0.499	7.51
3) P	Chloromethane	0.762	0.654	0.645	0.597	0.617	0.587	0.644	9.85
4) C	Vinyl Chloride	0.670	0.670	0.684	0.640	0.673	0.648	0.664	2.49#
5) T	Bromomethane		0.375	0.380	0.357	0.379	0.368	0.372	2.57
6) T	Chloroethane	0.460	0.444	0.442	0.408	0.418	0.402	0.429	5.37
7) T	Trichlorofluor...	0.882	0.903	0.904	0.834	0.858	0.825	0.868	3.93
8) T	Diethyl Ether	0.372	0.397	0.383	0.363	0.384	0.369	0.378	3.28
9) T	1,1,2-Trichlor...	0.554	0.567	0.563	0.519	0.546	0.520	0.545	3.83
10) T	Methyl Iodide		0.720	0.729	0.683	0.722	0.679	0.707	3.35
11) T	Tert butyl alc...		0.192	0.194	0.176	0.180	0.166	0.182	6.37
12) CM	1,1-Dichloroet...	0.573	0.593	0.563	0.533	0.550	0.527	0.557	4.44#
13) T	Acrolein		0.073	0.051	0.045	0.052	0.066	0.057	20.26
14) T	Allyl chloride	0.985	0.911	0.925	0.865	0.905	0.947	0.923	4.40
15) T	Acrylonitrile	0.434	0.434	0.445	0.407	0.423	0.404	0.425	3.82
16) T	Acetone	0.426	0.366	0.366	0.322	0.334	0.316	0.355	11.53
17) T	Carbon Disulfide	1.718	1.621	1.542	1.426	1.496	1.433	1.539	7.38
18) T	Methyl Acetate	1.035	1.049	1.078	0.986	1.049	1.011	1.035	3.10
19) T	Methyl tert-bu...	2.120	2.038	2.051	1.933	2.021	1.926	2.015	3.69
20) T	Methylene Chlo...	0.822	0.688	0.643	0.605	0.629	0.601	0.665	12.52
21) T	trans-1,2-Dich...	0.700	0.674	0.621	0.567	0.591	0.561	0.619	9.25
22) T	Diisopropyl ether	2.018	2.020	2.036	1.856	1.915	1.828	1.945	4.70
23) T	Vinyl Acetate	1.743	1.692	1.715	1.591	1.604	1.517	1.644	5.29
24) P	1,1-Dichloroet...	1.192	1.152	1.156	1.063	1.110	1.043	1.120	5.17
25) T	2-Butanone	0.604	0.598	0.604	0.551	0.573	0.533	0.577	5.18
26) T	2,2-Dichloropr...	0.967	0.796	0.778	0.905	0.912	0.868	0.871	8.32
27) T	cis-1,2-Dichlo...	0.786	0.766	0.762	0.699	0.729	0.701	0.740	4.93
28) T	Bromochloromet...	0.579	0.564	0.616	0.466	0.517	0.560	0.550	9.48
29) T	Tetrahydrofuran	0.390	0.390	0.399	0.358	0.372	0.346	0.376	5.46
30) C	Chloroform	1.235	1.151	1.145	1.061	1.085	1.030	1.118	6.66#
31) T	Cyclohexane		1.303	1.116	1.004	1.030	0.976	1.086	12.21
32) T	1,1,1-Trichlor...	1.029	0.995	0.969	0.895	0.925	0.893	0.951	5.88
33) S	1,2-Dichloroet...		0.732	0.707	0.500	0.656	0.751	0.669	15.08
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.303	0.310	0.219	0.298	0.351	0.296	16.15
36) T	1,1-Dichloropr...	0.467	0.458	0.438	0.418	0.442	0.426	0.442	4.23
37) T	Ethyl Acetate	0.544	0.615	0.577	0.536	0.565	0.535	0.562	5.48
38) T	Carbon Tetrach...	0.453	0.449	0.434	0.409	0.435	0.421	0.433	3.88
39) T	Methylcyclohexane	0.633	0.645	0.588	0.570	0.603	0.589	0.605	4.75
40) TM	Benzene	1.588	1.501	1.444	1.345	1.414	1.371	1.444	6.20
41) T	Methacrylonitrile	0.356	0.319	0.318	0.303	0.299	0.299	0.316	6.84
42) TM	1,2-Dichloroet...	0.473	0.456	0.444	0.411	0.430	0.413	0.438	5.60
43) T	Isopropyl Acetate	0.975	0.950	0.906	0.852	0.884	0.845	0.902	5.79
44) TM	Trichloroethene	0.359	0.360	0.341	0.327	0.340	0.327	0.342	4.17
45) C	1,2-Dichloropr...	0.366	0.369	0.354	0.332	0.352	0.335	0.351	4.40#
46) T	Dibromomethane	0.233	0.242	0.241	0.221	0.237	0.226	0.233	3.54
47) T	Bromodichlorom...	0.510	0.484	0.480	0.457	0.483	0.465	0.480	3.80
48) T	Methyl methacr...	0.444	0.415	0.421	0.394	0.421	0.397	0.415	4.40
49) T	1,4-Dioxane	0.006	0.007	0.008	0.008	0.008	0.007	0.008	9.40
50) S	Toluene-d8		1.245	1.203	0.861	1.178	1.377	1.173	16.23
51) T	4-Methyl-2-Pen...	0.505	0.549	0.576	0.538	0.562	0.528	0.543	4.64
52) CM	Toluene	0.918	0.914	0.885	0.835	0.883	0.859	0.882	3.61#
53) T	t-1,3-Dichloro...	0.571	0.526	0.524	0.522	0.548	0.530	0.537	3.59
54) T	cis-1,3-Dichlo...	0.609	0.577	0.564	0.551	0.584	0.561	0.574	3.61
55) T	1,1,2-Trichlor...	0.359	0.355	0.342	0.322	0.335	0.323	0.340	4.66
56) T	Ethyl methacry...	0.433	0.516	0.567	0.556	0.595	0.578	0.541	10.92

Method Path : Z:\voasrv\HPCHEM1\MSVOA_N\methods\
 Method File : 82N060625W.M

57)	T	1,3-Dichloropr...	0.643	0.600	0.587	0.561	0.583	0.559	0.589	5.27
58)	T	2-Chloroethyl ...	0.278	0.305	0.334	0.274	0.340	0.405	0.323	15.07
59)	T	2-Hexanone	0.312	0.282	0.363	0.368	0.397	0.376	0.350	12.36
60)	T	Dibromochlorom...	0.361	0.351	0.358	0.340	0.363	0.349	0.354	2.49
61)	T	1,2-Dibromoethane	0.353	0.358	0.354	0.329	0.354	0.341	0.348	3.18
62)	S	4-Bromofluorob...	0.441	0.446	0.325	0.446	0.521	0.436		16.16
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.355	0.331	0.312	0.294	0.313	0.293	0.316	7.51
65)	PM	Chlorobenzene	1.233	1.135	1.107	1.023	1.089	1.030	1.103	7.01
66)	T	1,1,1,2-Tetrac...	0.362	0.374	0.358	0.338	0.356	0.338	0.354	3.99
67)	C	Ethyl Benzene	1.989	1.975	1.907	1.796	1.913	1.816	1.899	4.19#
68)	T	m/p-Xylenes	0.730	0.751	0.741	0.701	0.736	0.703	0.727	2.82
69)	T	o-Xylene	0.714	0.699	0.702	0.674	0.711	0.678	0.696	2.42
70)	T	Styrene	1.177	1.193	1.226	1.162	1.229	1.164	1.192	2.51
71)	P	Bromoform	0.217	0.266	0.276	0.265	0.286	0.267	0.263	9.09
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.864	3.749	3.649	3.426	3.621	3.546	3.643	4.21
74)	T	N-amyl acetate	1.376	1.110	1.187	1.266	1.372	1.327	1.273	8.42
75)	P	1,1,2,2-Tetrac...	1.292	1.299	1.273	1.178	1.205	1.157	1.234	4.99
76)	T	1,2,3-Trichlor...	1.297	1.189	1.129	1.173	1.201	1.142	1.189	5.03
77)	T	Bromobenzene	0.870	0.855	0.840	0.790	0.838	0.819	0.835	3.36
78)	T	n-propylbenzene	4.530	4.627	4.449	4.211	4.424	4.317	4.427	3.35
79)	T	2-Chlorotoluene	2.852	2.723	2.674	2.507	2.618	2.554	2.655	4.69
80)	T	1,3,5-Trimethy...	3.004	3.091	3.035	2.898	3.064	2.953	3.007	2.39
81)	T	trans-1,4-Dich...	0.510	0.522	0.476	0.546	0.528	0.516		5.06
82)	T	4-Chlorotoluene	2.899	2.757	2.671	2.531	2.664	2.595	2.686	4.81
83)	T	tert-Butylbenzene	2.942	2.810	2.736	2.617	2.745	2.668	2.753	4.14
84)	T	1,2,4-Trimethy...	2.952	3.122	3.063	2.914	3.075	2.968	3.016	2.73
85)	T	sec-Butylbenzene	4.114	4.126	4.037	3.829	4.018	3.861	3.998	3.15
86)	T	p-Isopropyltol...	3.305	3.425	3.321	3.184	3.366	3.227	3.305	2.68
87)	T	1,3-Dichlorobe...	1.763	1.709	1.657	1.554	1.612	1.566	1.644	5.01
88)	T	1,4-Dichlorobe...	1.820	1.786	1.657	1.572	1.642	1.576	1.676	6.27
89)	T	n-Butylbenzene	3.473	3.292	3.140	3.059	3.188	3.054	3.201	4.99
90)	T	Hexachloroethane	0.580	0.537	0.569	0.537	0.577	0.562	0.560	3.43
91)	T	1,2-Dichlorobe...	1.675	1.651	1.596	1.500	1.557	1.496	1.579	4.77
92)	T	1,2-Dibromo-3-...	0.339	0.317	0.290	0.272	0.283	0.270	0.295	9.29
93)	T	1,2,4-Trichlor...	1.042	1.037	0.991	0.969	1.016	0.994	1.008	2.82
94)	T	Hexachlorobuta...	0.364	0.391	0.385	0.363	0.382	0.369	0.376	3.11
95)	T	Naphthalene	3.820	3.727	3.761	3.600	3.839	3.772	3.753	2.27
96)	T	1,2,3-Trichlor...	1.073	1.009	0.993	0.950	1.000	0.987	1.002	4.05

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086862.D
 Acq On : 06 Jun 2025 12:44
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC001

Quant Time: Jun 07 01:54:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	212682	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	393457	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	348010	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	167399	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	2.153	85	1985	0.936	ug/l	72
3) Chloromethane	2.400	50	3241	1.184	ug/l	98
4) Vinyl Chloride	2.559	62	2848	1.008	ug/l #	88
6) Chloroethane	3.159	64	1957	1.073	ug/l #	79
7) Trichlorofluoromethane	3.530	101	3752	1.017	ug/l	97
8) Diethyl Ether	3.994	74	1583	0.984	ug/l	76
9) 1,1,2-Trichlorotrifluo...	4.377	101	2358m	1.017	ug/l	
12) 1,1-Dichloroethene	4.365	96	2436	1.029	ug/l	85
14) Allyl chloride	5.041	41	4189	1.067	ug/l #	75
15) Acrylonitrile	5.735	53	9222	5.106	ug/l	96
16) Acetone	4.459	43	9069	6.006	ug/l	95
17) Carbon Disulfide	4.730	76	7306	1.116	ug/l	97
18) Methyl Acetate	5.053	43	4402	1.000	ug/l #	66
19) Methyl tert-butyl Ether	5.824	73	9019	1.052	ug/l	92
20) Methylene Chloride	5.294	84	3496	1.237	ug/l	93
21) trans-1,2-Dichloroethene	5.800	96	2979	1.131	ug/l	87
22) Diisopropyl ether	6.682	45	8584	1.037	ug/l #	96
23) Vinyl Acetate	6.618	43	37075	5.303	ug/l	95
24) 1,1-Dichloroethane	6.588	63	5071	1.065	ug/l #	81
25) 2-Butanone	7.500	43	12841	5.231	ug/l	93
26) 2,2-Dichloropropane	7.500	77	4112	1.110	ug/l	94
27) cis-1,2-Dichloroethene	7.494	96	3345	1.062	ug/l	95
28) Bromochloromethane	7.824	49	2464	1.052	ug/l #	88
29) Tetrahydrofuran	7.853	42	8301	5.191	ug/l	100
30) Chloroform	7.971	83	5255	1.105	ug/l	97
32) 1,1,1-Trichloroethane	8.171	97	4378	1.082	ug/l #	50
36) 1,1-Dichloropropene	8.376	75	3678	1.059	ug/l	96
37) Ethyl Acetate	7.577	43	4282	0.968	ug/l #	78
38) Carbon Tetrachloride	8.376	117	3563	1.045	ug/l #	93
39) Methylcyclohexane	9.606	83	4981	1.046	ug/l #	90
40) Benzene	8.612	78	12498	1.100	ug/l	100
41) Methacrylonitrile	7.782	41	2799	1.127	ug/l	89
42) 1,2-Dichloroethane	8.682	62	3725	1.081	ug/l	82
43) Isopropyl Acetate	8.694	43	7673	1.081	ug/l #	96
44) Trichloroethene	9.365	130	2822	1.047	ug/l	71
45) 1,2-Dichloropropane	9.629	63	2883	1.043	ug/l	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086862.D
 Acq On : 06 Jun 2025 12:44
 Operator : JC\MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:54:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M

Quant Title : SW846 8260

QLast Update : Sat Jun 07 01:51:02 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	9.712	93	1835	0.999	ug/l	94
47) Bromodichloromethane	9.888	83	4017	1.063	ug/l #	96
48) Methyl methacrylate	9.688	41	3492	1.069	ug/l	88
49) 1,4-Dioxane	9.706	88	1004	16.891	ug/l #	74
51) 4-Methyl-2-Pentanone	10.453	43	19886	4.653	ug/l	99
52) Toluene	10.635	92	7227	1.041	ug/l	95
53) t-1,3-Dichloropropene	10.841	75	4494	1.064	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	4792	1.060	ug/l	97
55) 1,1,2-Trichloroethane	11.023	97	2828	1.058	ug/l	89
56) Ethyl methacrylate	10.882	69	3406	0.800	ug/l #	85
57) 1,3-Dichloropropane	11.170	76	5062	1.092	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.165	63	10924	4.304	ug/l	97
59) 2-Hexanone	11.235	43	12295m	4.466	ug/l	
60) Dibromochloromethane	11.359	129	2843	1.021	ug/l	96
61) 1,2-Dibromoethane	11.470	107	2777	1.014	ug/l	96
64) Tetrachloroethene	11.106	164	2473	1.123	ug/l	94
65) Chlorobenzene	11.894	112	8581	1.118	ug/l #	87
66) 1,1,1,2-Tetrachloroethane	11.959	131	2523	1.023	ug/l #	63
67) Ethyl Benzene	11.970	91	13845	1.047	ug/l	94
68) m/p-Xylenes	12.070	106	10163	2.008	ug/l	95
69) o-Xylene	12.400	106	4970	1.025	ug/l	93
70) Styrene	12.417	104	8189	0.987	ug/l	98
71) Bromoform	12.582	173	1508	0.825	ug/l #	78
73) Isopropylbenzene	12.694	105	12938	1.061	ug/l	98
74) N-amyl acetate	12.647	43	4608m	1.138	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.935	83	4326	1.047	ug/l #	93
76) 1,2,3-Trichloropropane	13.000	75	4343m	1.088	ug/l	
77) Bromobenzene	12.982	156	2913	1.042	ug/l	96
78) n-propylbenzene	13.035	91	15168	1.023	ug/l	98
79) 2-Chlorotoluene	13.123	91	9550	1.074	ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	10058	0.999	ug/l	96
82) 4-Chlorotoluene	13.223	91	9706	1.079	ug/l	96
83) tert-Butylbenzene	13.435	119	9849	1.069	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	9882	0.979	ug/l	99
85) sec-Butylbenzene	13.617	105	13775	1.029	ug/l	100
86) p-Isopropyltoluene	13.729	119	11065	1.000	ug/l	97
87) 1,3-Dichlorobenzene	13.735	146	5903	1.073	ug/l	94
88) 1,4-Dichlorobenzene	13.811	146	6094m	1.086	ug/l	
89) n-Butylbenzene	14.058	91	11627	1.085	ug/l	94
90) Hexachloroethane	14.329	117	1942	1.036	ug/l	93
91) 1,2-Dichlorobenzene	14.106	146	5607	1.061	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	1136	1.150	ug/l	78
93) 1,2,4-Trichlorobenzene	15.388	180	3489	1.034	ug/l	98
94) Hexachlorobutadiene	15.500	225	1219	0.969	ug/l	88
95) Naphthalene	15.635	128	12789	1.018	ug/l	98
96) 1,2,3-Trichlorobenzene	15.835	180	3594	1.072	ug/l	96

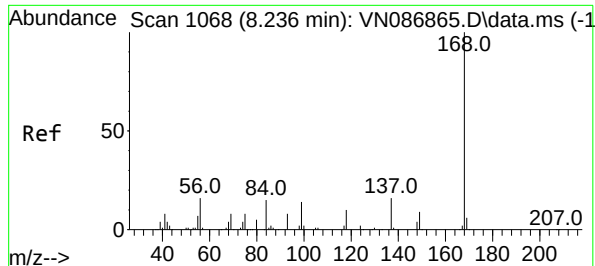
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Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Manual Integrations

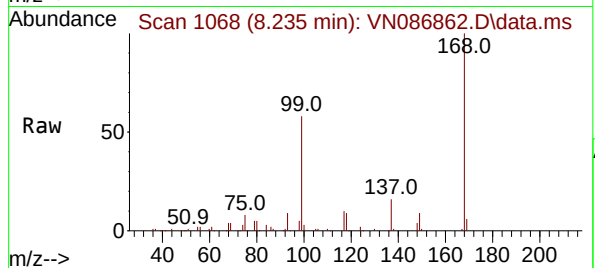
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

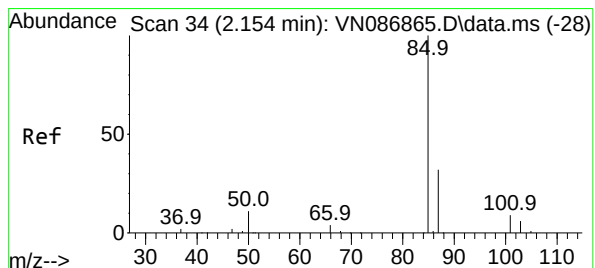
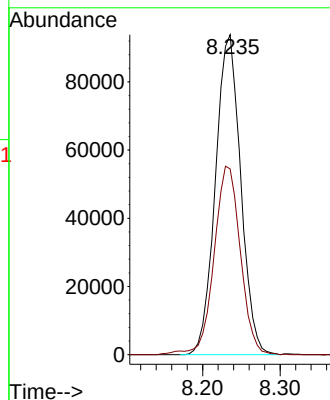
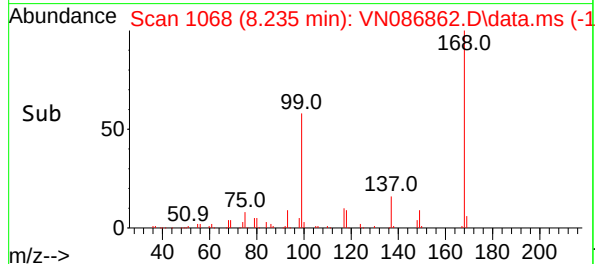
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion:168 Resp: 21268
Ion Ratio Lower Upper
168 100
99 58.1 49.1 73.7

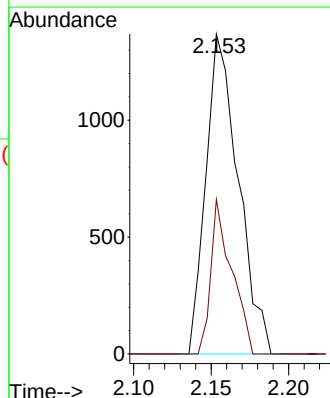
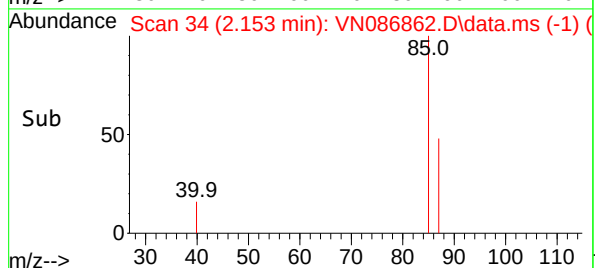
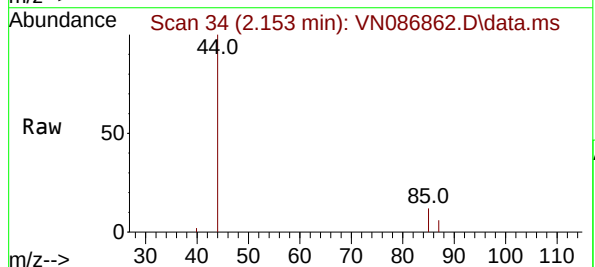
Manual Integrations
APPROVED

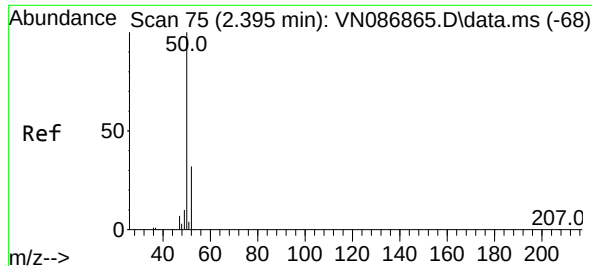
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 0.936 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 85 Resp: 1985
Ion Ratio Lower Upper
85 100
87 48.3 16.2 48.6





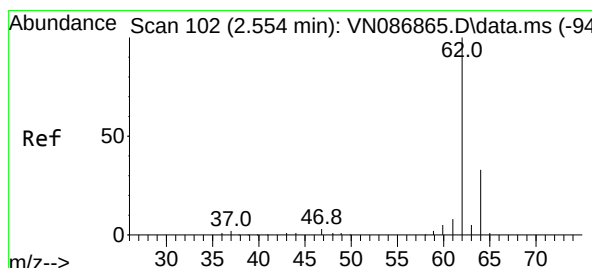
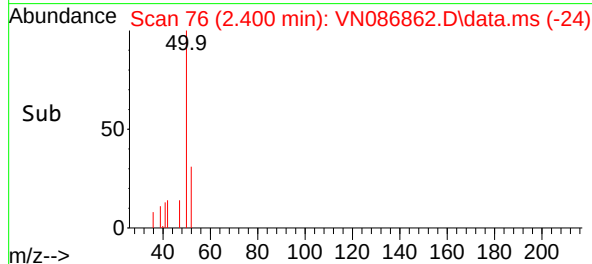
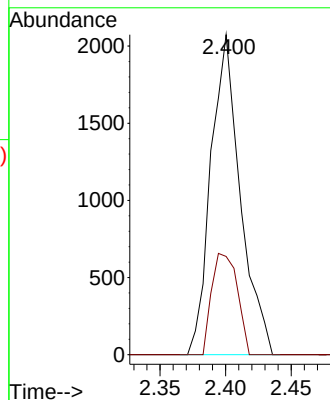
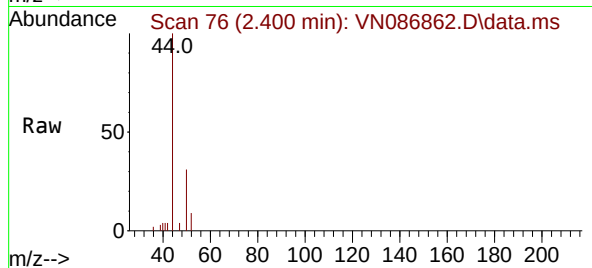
#3
Chloromethane
Concen: 1.184 ug/l
RT: 2.400 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 324
Ion Ratio Lower Upper
50 100
52 30.7 25.7 38.5

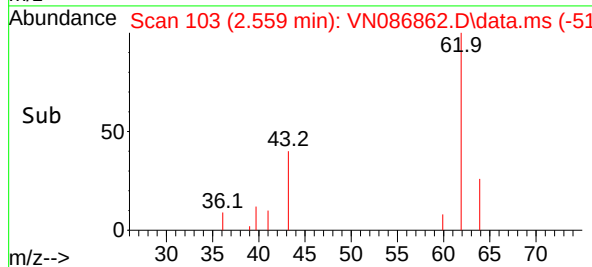
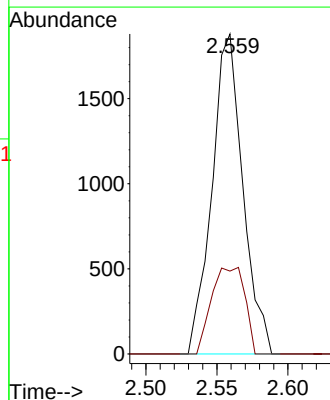
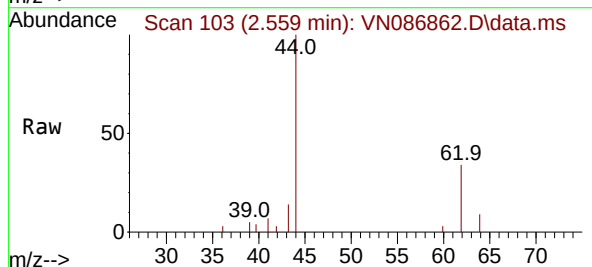
Manual Integrations
APPROVED

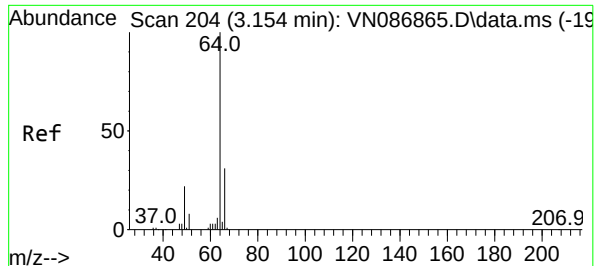
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 1.008 ug/l
RT: 2.559 min Scan# 103
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

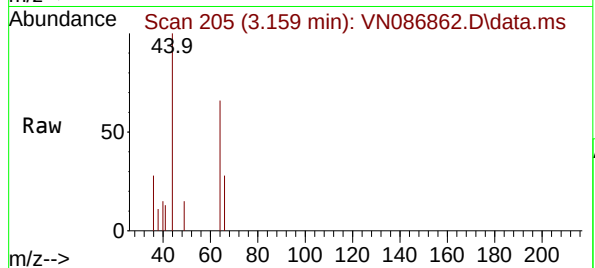
Tgt Ion: 62 Resp: 2848
Ion Ratio Lower Upper
62 100
64 25.9 26.0 39.0#





#6
Chloroethane
Concen: 1.073 ug/l
RT: 3.159 min Scan# 205
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

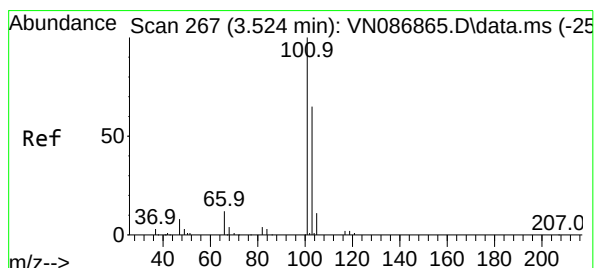
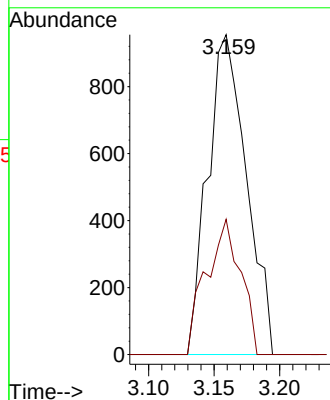
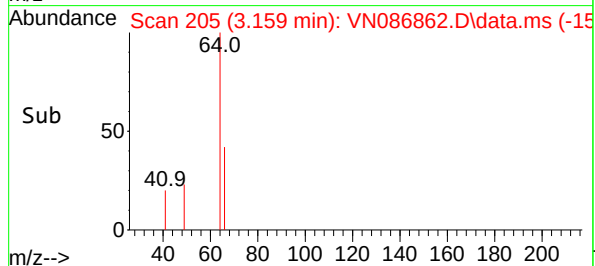
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MSVOA_N
ClientSampleId :
VSTDIC001



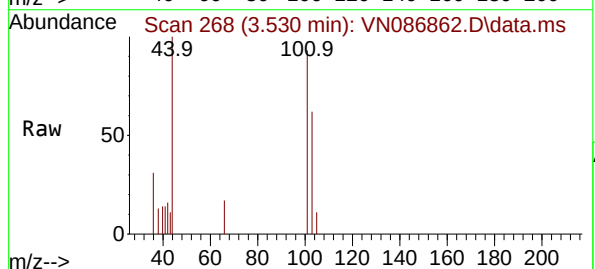
Tgt Ion: 64 Resp: 195
Ion Ratio Lower Upper
64 100
66 42.3 24.6 36.8

Manual Integrations
APPROVED

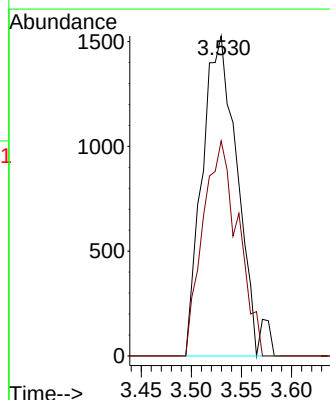
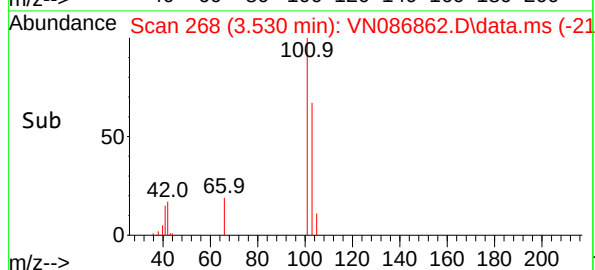
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

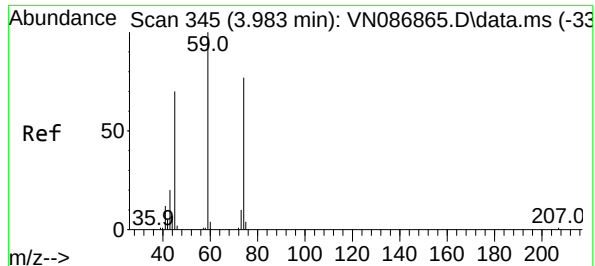


#7
Trichlorofluoromethane
Concen: 1.017 ug/l
RT: 3.530 min Scan# 268
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44



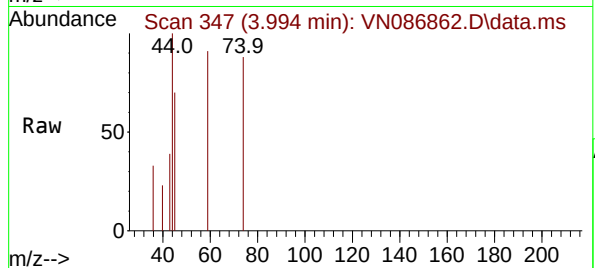
Tgt Ion:101 Resp: 3752
Ion Ratio Lower Upper
101 100
103 67.2 52.2 78.2





#8
Diethyl Ether
Concen: 0.984 ug/l
RT: 3.994 min Scan# 345
Delta R.T. 0.011 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

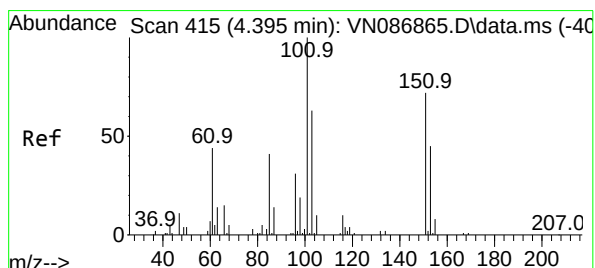
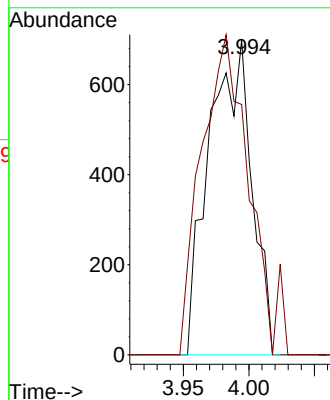
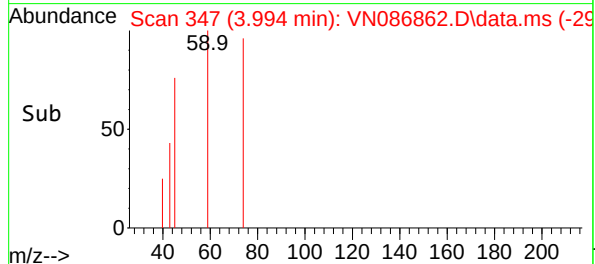
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MSVOA_N
ClientSampleId :
VSTDICC001



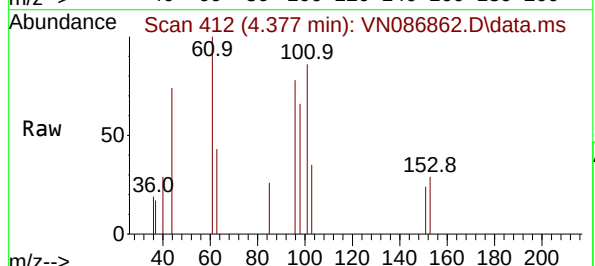
Tgt Ion: 74 Resp: 158
Ion Ratio Lower Upper
74 100
45 113.8 45.5 136.5

Manual Integrations
APPROVED

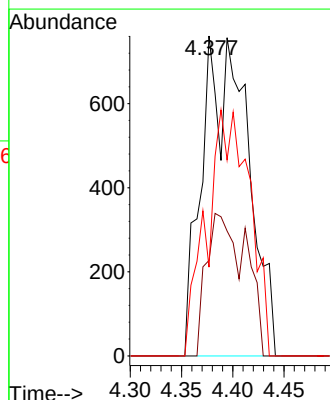
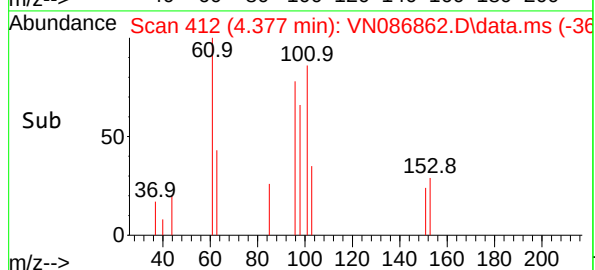
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

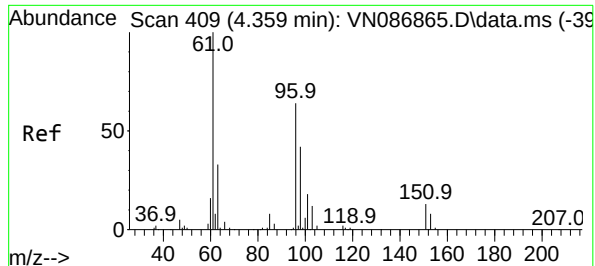


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.017 ug/l m
RT: 4.377 min Scan# 412
Delta R.T. -0.018 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44



Tgt Ion:101 Resp: 2358
Ion Ratio Lower Upper
101 100
85 27.8 33.8 50.8#
151 72.1 58.7 88.1





#12

1,1-Dichloroethene

Concen: 1.029 ug/l

RT: 4.365 min Scan# 410

Delta R.T. 0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

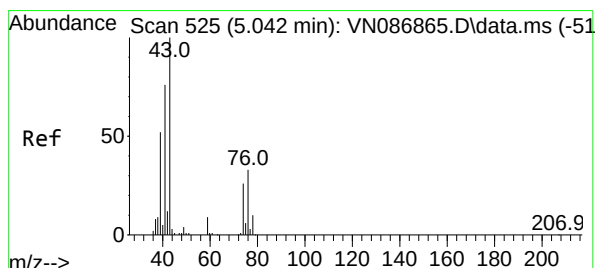
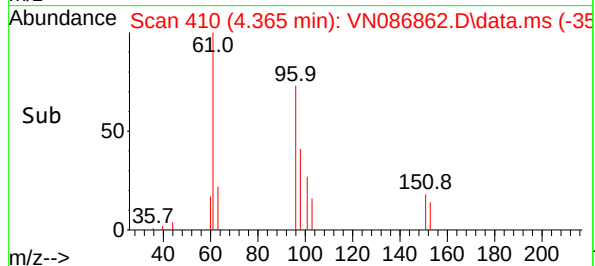
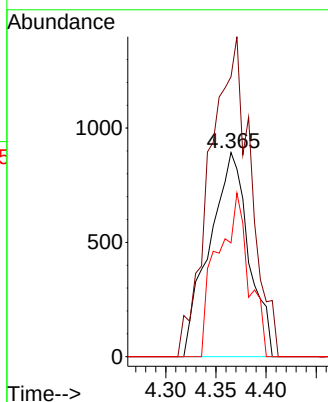
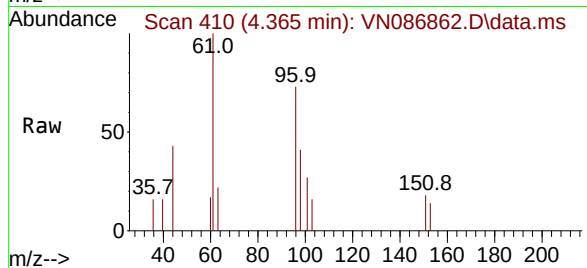
VSTDIC001

Tgt Ion:	96	Resp:	2430
Ion	Ratio	Lower	Upper
96	100		
61	137.1	125.8	188.6
98	55.8	52.5	78.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 1.067 ug/l

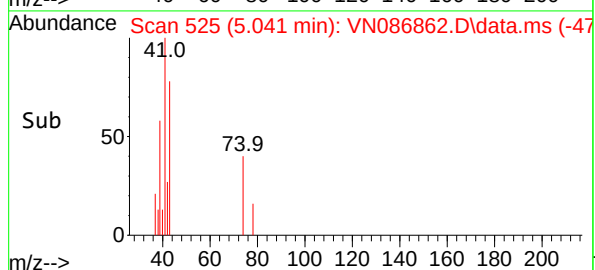
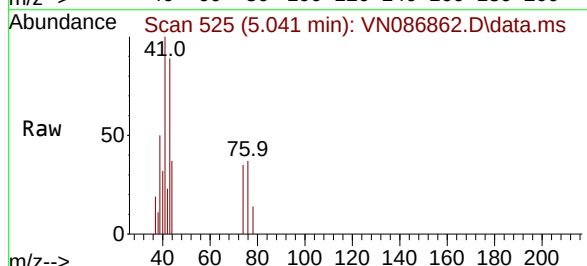
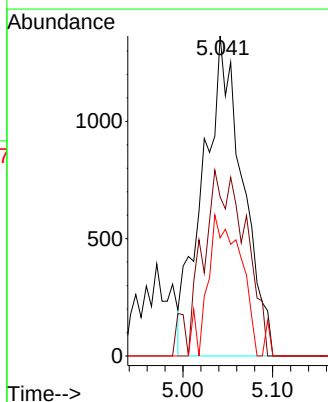
RT: 5.041 min Scan# 525

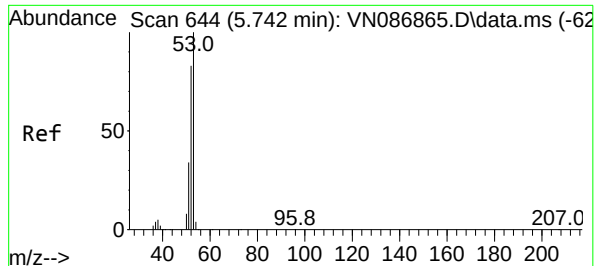
Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Tgt Ion:	41	Resp:	4189
Ion	Ratio	Lower	Upper
41	100		
39	35.3	51.3	76.9#
76	36.4	31.4	47.0





#15

Acrylonitrile

Concen: 5.106 ug/l

RT: 5.735 min Scan# 644

Delta R.T. -0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

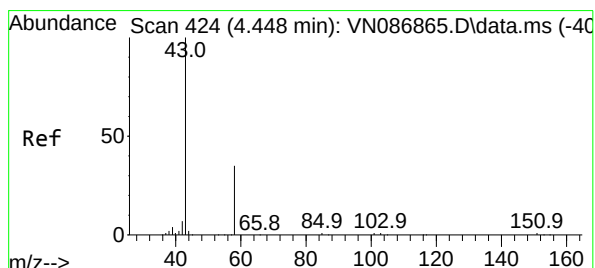
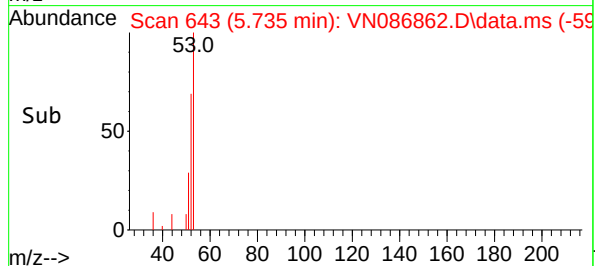
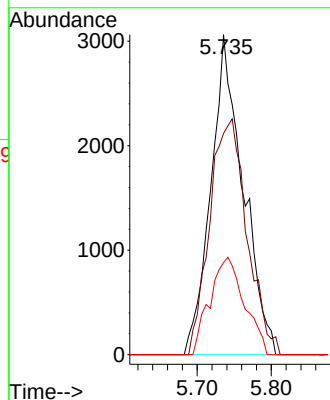
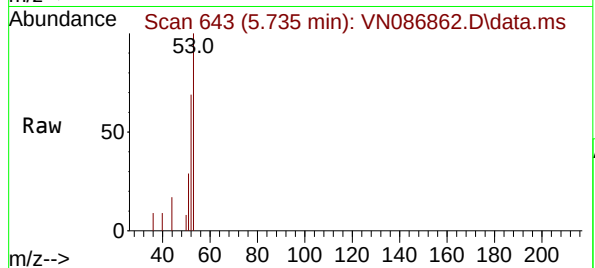
ClientSampleId :

VSTDICC001

Tgt Ion: 53	Resp: 922
Ion Ratio	Lower Upper
53 100	
52 85.4	65.0 97.6
51 32.7	27.2 40.8

Manual Integrations
APPROVED

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



#16

Acetone

Concen: 6.006 ug/l

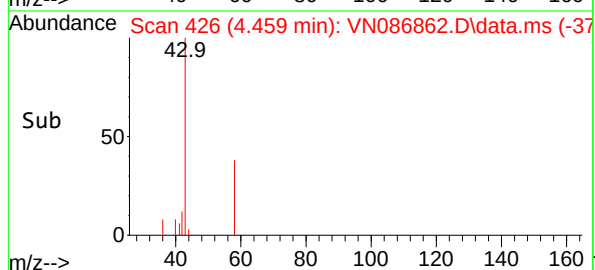
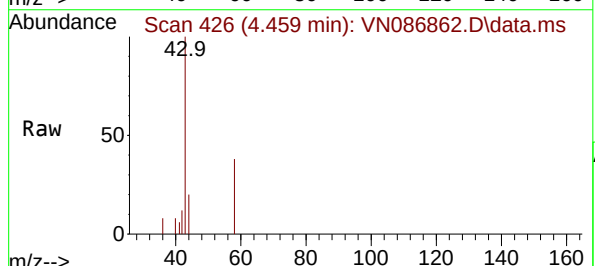
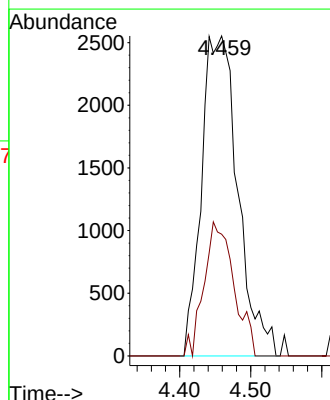
RT: 4.459 min Scan# 426

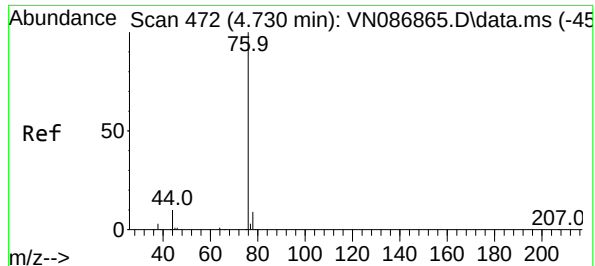
Delta R.T. 0.011 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Tgt Ion: 43	Resp: 9069
Ion Ratio	Lower Upper
43 100	
58 38.0	28.0 42.0





#17

Carbon Disulfide

Concen: 1.116 ug/l

RT: 4.730 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 76 Resp: 7300

Ion Ratio Lower Upper

76 100

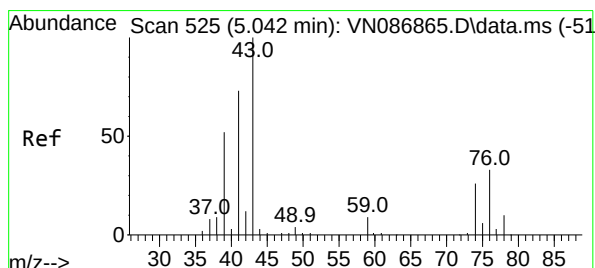
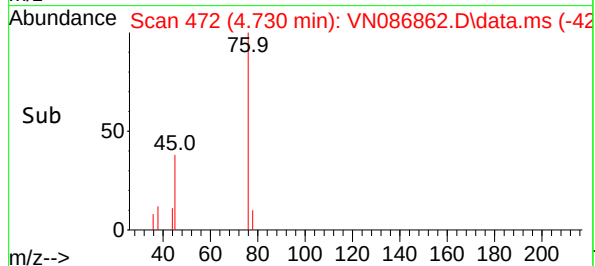
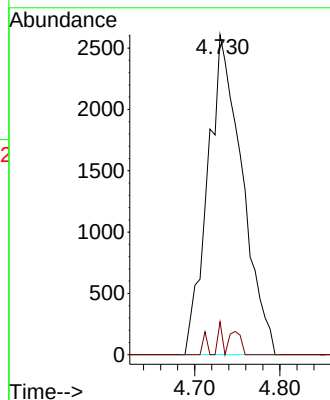
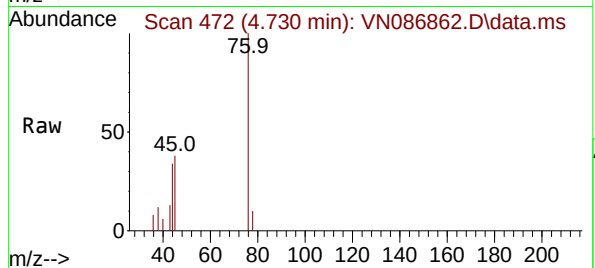
78 10.3 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#18

Methyl Acetate

Concen: 1.000 ug/l

RT: 5.053 min Scan# 527

Delta R.T. 0.011 min

Lab File: VN086862.D

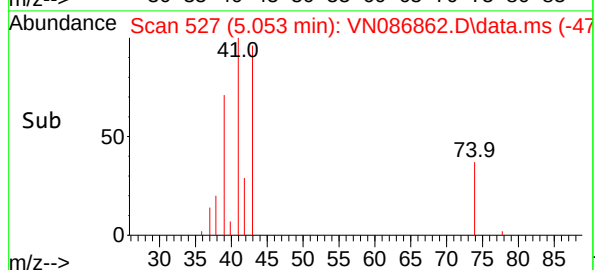
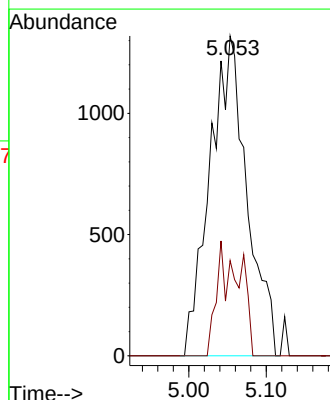
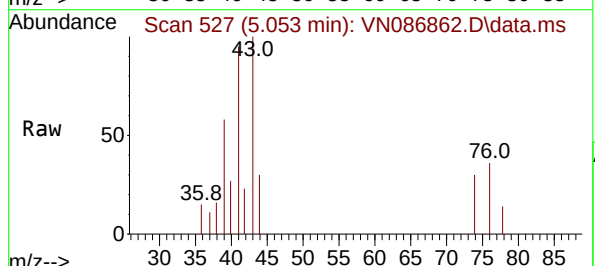
Acq: 06 Jun 2025 12:44

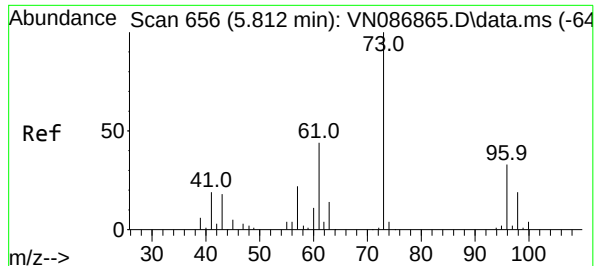
Tgt Ion: 43 Resp: 4402

Ion Ratio Lower Upper

43 100

74 8.7 20.7 31.1#





#19

Methyl tert-butyl Ether

Concen: 1.052 ug/l

RT: 5.824 min Scan# 656

Delta R.T. 0.011 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 73 Resp: 9019

Ion Ratio Lower Upper

73 100

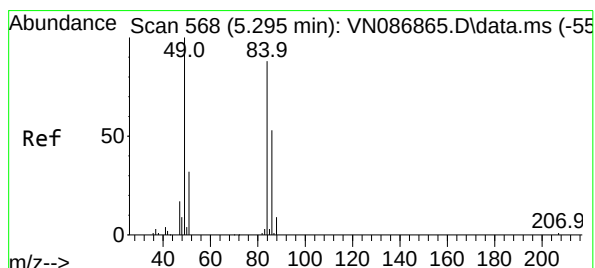
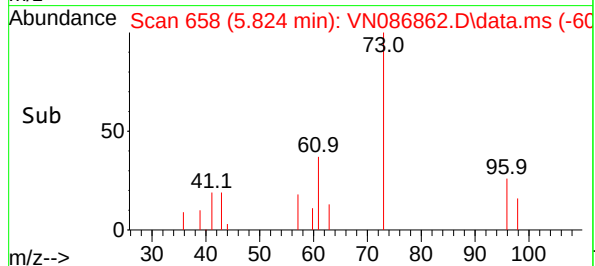
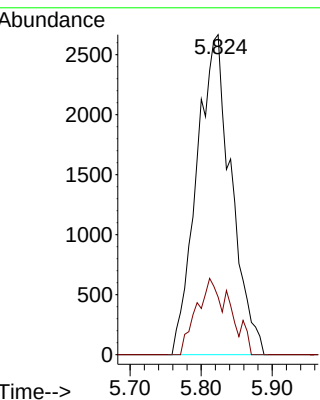
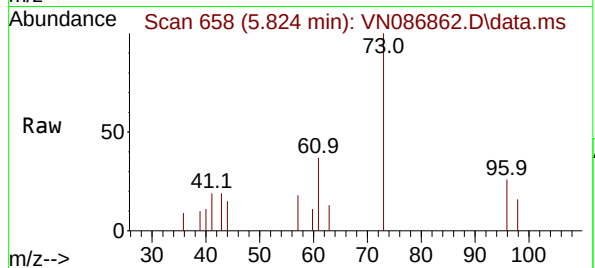
57 18.0 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#20

Methylene Chloride

Concen: 1.237 ug/l

RT: 5.294 min Scan# 568

Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Tgt Ion: 84 Resp: 3496

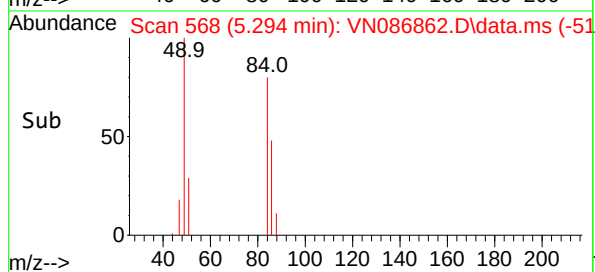
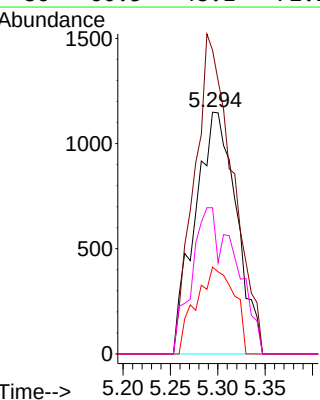
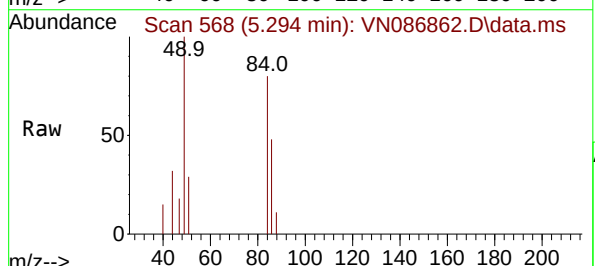
Ion Ratio Lower Upper

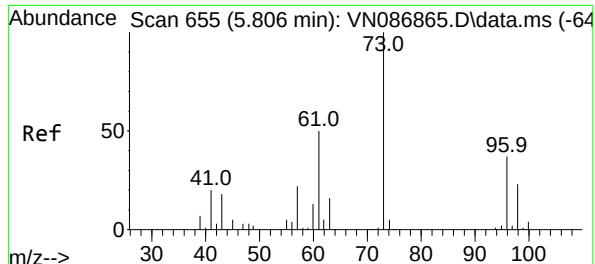
84 100

49 125.7 90.5 135.7

51 35.9 28.5 42.7

86 60.5 48.1 72.1





#21

trans-1,2-Dichloroethene

Concen: 1.131 ug/l

RT: 5.800 min Scan# 61

Delta R.T. -0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 96 Resp: 2979

Ion Ratio Lower Upper

96 100

61 119.4 109.2 163.8

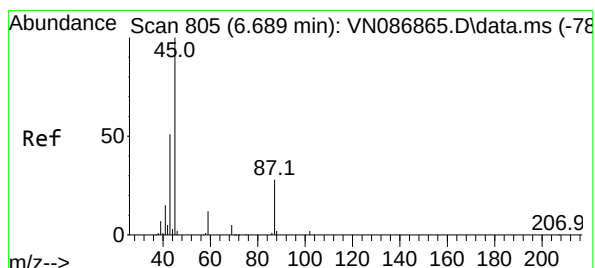
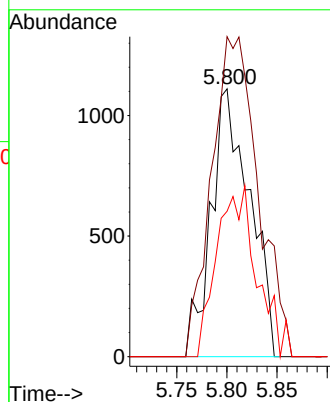
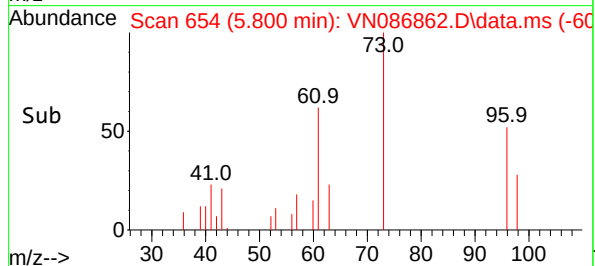
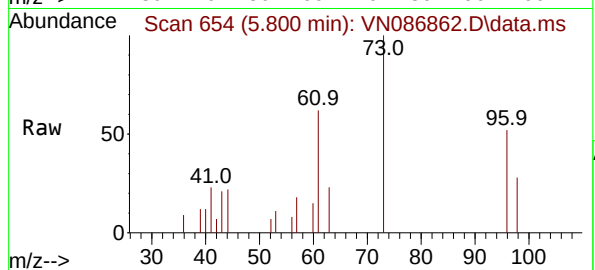
98 54.3 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#22

Diisopropyl ether

Concen: 1.037 ug/l

RT: 6.682 min Scan# 804

Delta R.T. -0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Tgt Ion: 45 Resp: 8584

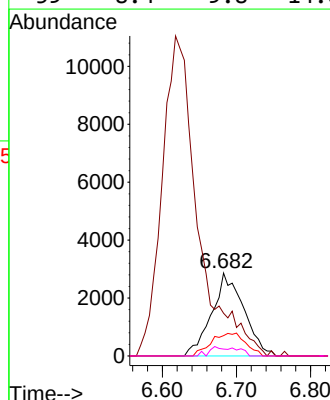
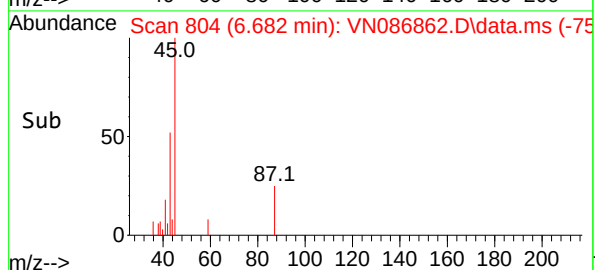
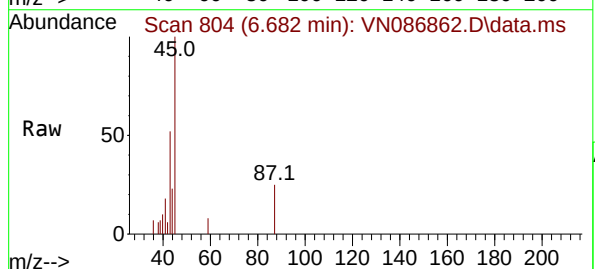
Ion Ratio Lower Upper

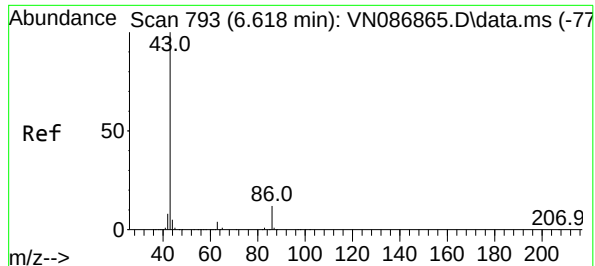
45 100

43 51.5 41.9 62.9

87 24.5 22.4 33.6

59 8.4 9.8 14.6#





#23

Vinyl Acetate

Concen: 5.303 ug/l

RT: 6.618 min Scan# 793

Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 3707

Ion Ratio Lower Upper

43 100

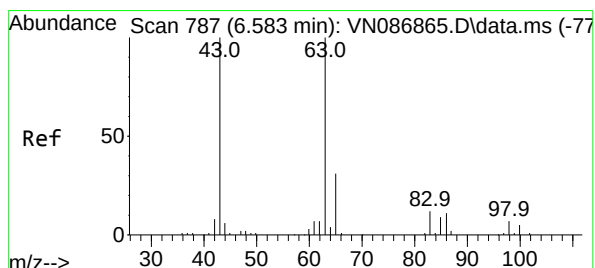
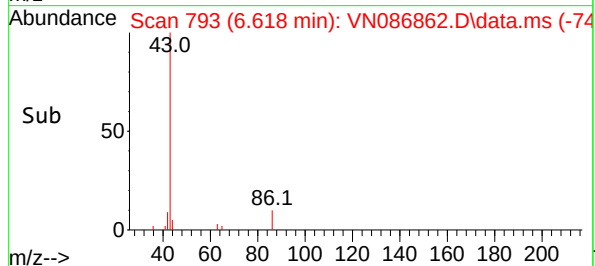
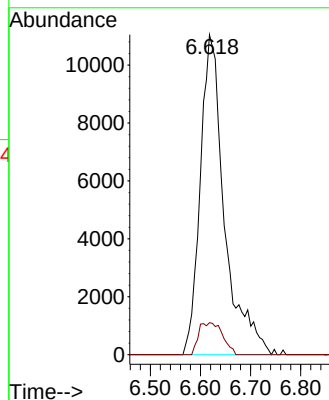
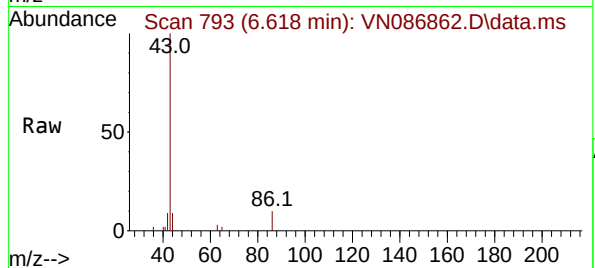
86 10.0 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#24

1,1-Dichloroethane

Concen: 1.065 ug/l

RT: 6.588 min Scan# 788

Delta R.T. 0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

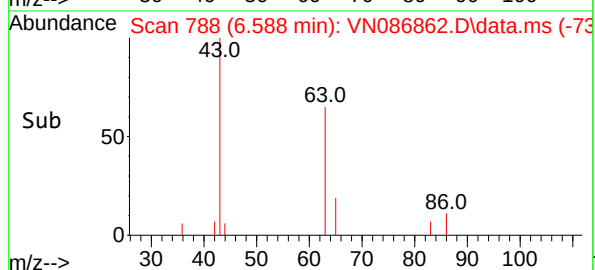
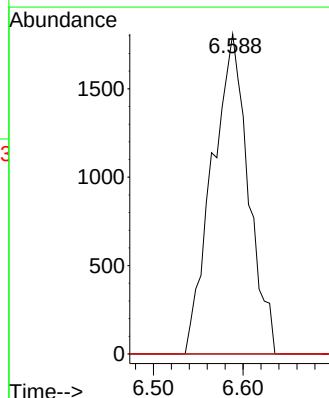
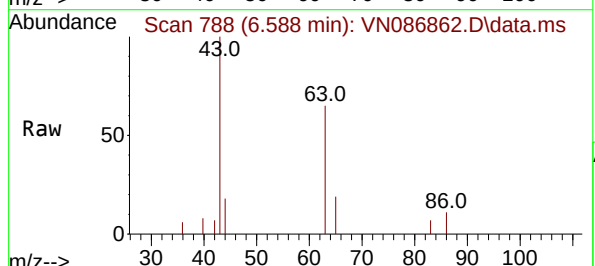
Tgt Ion: 63 Resp: 5071

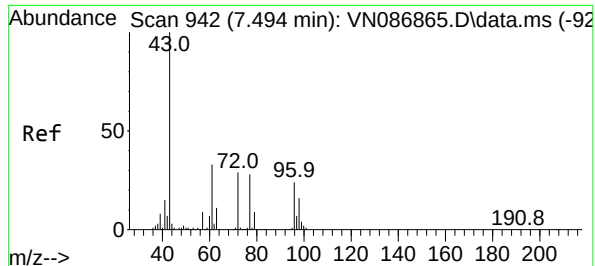
Ion Ratio Lower Upper

63 100

98 0.0 3.6 10.8#

100 0.0 2.6 7.8#





#25

2-Butanone

Concen: 5.231 ug/l

RT: 7.500 min Scan# 942

Delta R.T. 0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 1284

Ion Ratio Lower Upper

43 100

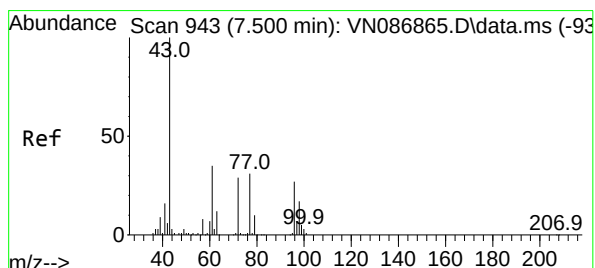
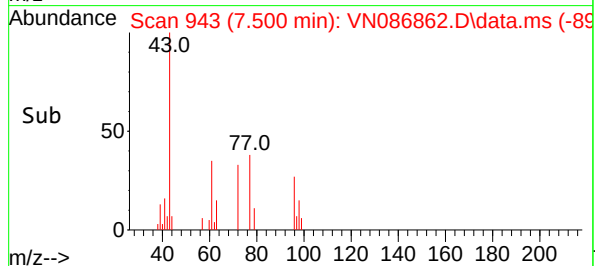
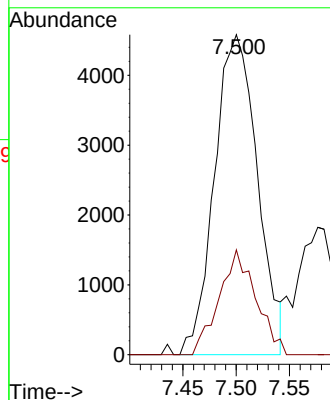
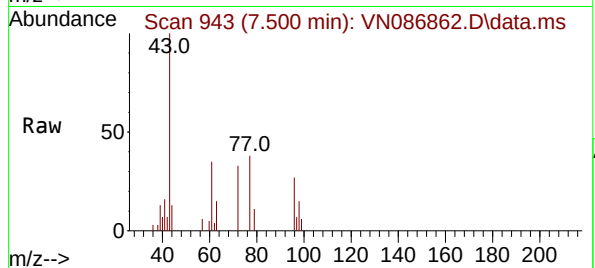
72 32.7 23.0 34.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 1.110 ug/l

RT: 7.500 min Scan# 943

Delta R.T. -0.000 min

Lab File: VN086862.D

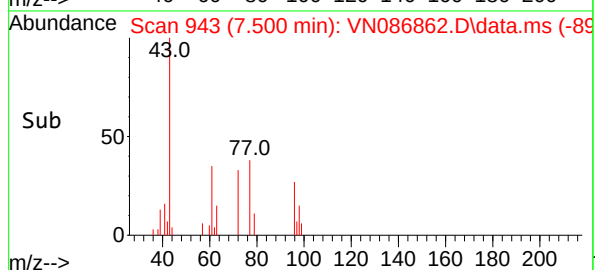
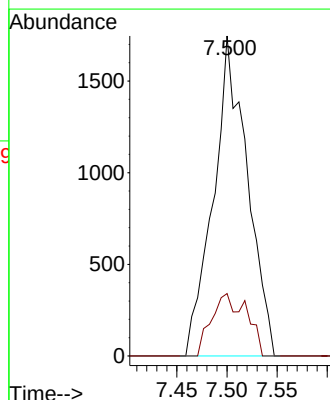
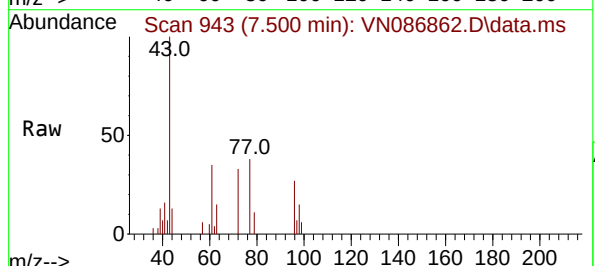
Acq: 06 Jun 2025 12:44

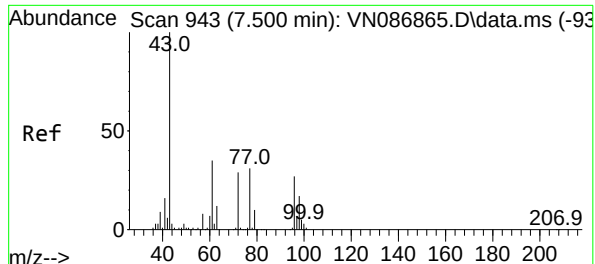
Tgt Ion: 77 Resp: 4112

Ion Ratio Lower Upper

77 100

97 20.1 11.6 34.7





#27

cis-1,2-Dichloroethene

Concen: 1.062 ug/l

RT: 7.494 min Scan# 942

Delta R.T. -0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

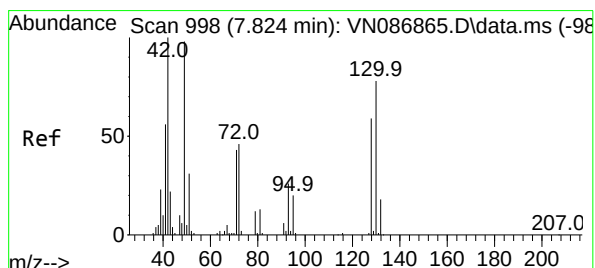
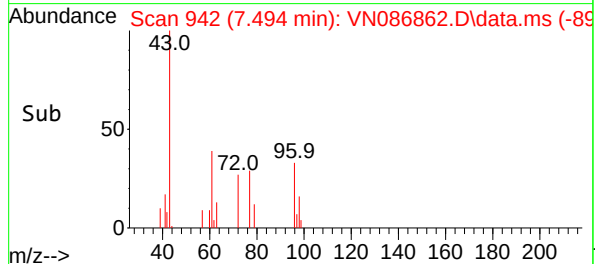
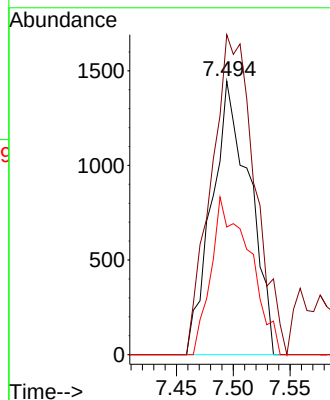
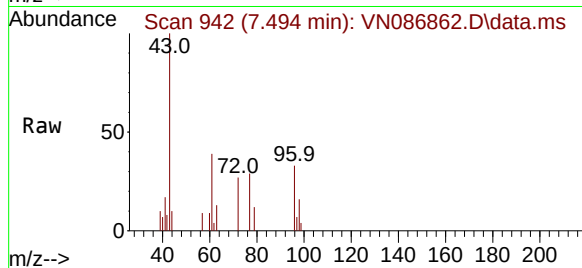
Tgt Ion:	96	Resp:	334
Ion	Ratio	Lower	Upper
96	100		
61	134.6	0.0	278.0
98	58.7	0.0	128.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 1.052 ug/l

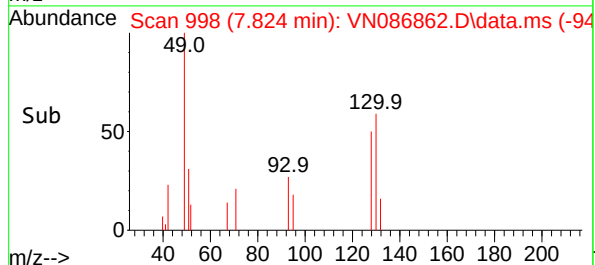
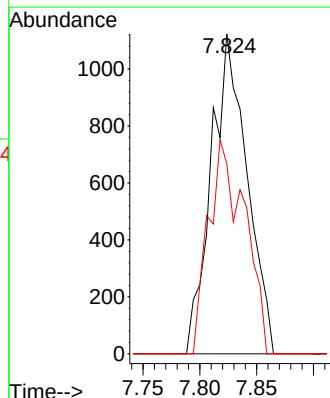
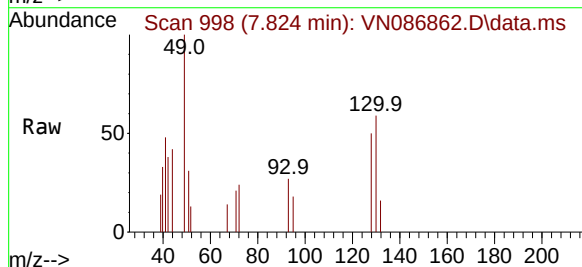
RT: 7.824 min Scan# 998

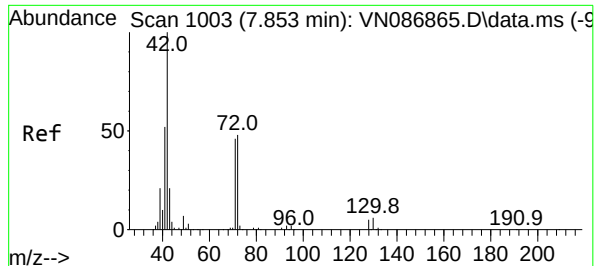
Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Tgt Ion:	49	Resp:	2464
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	67.5	62.2	93.2





#29

Tetrahydrofuran

Concen: 5.191 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

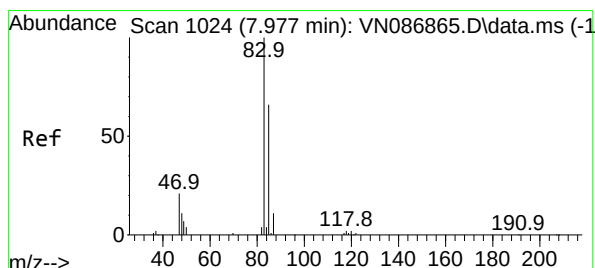
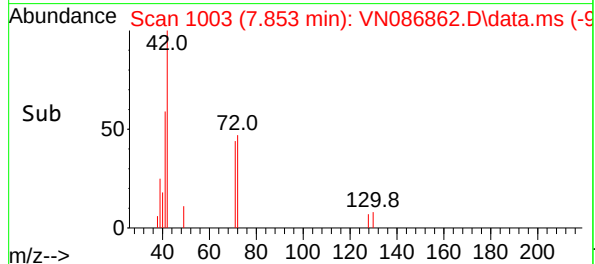
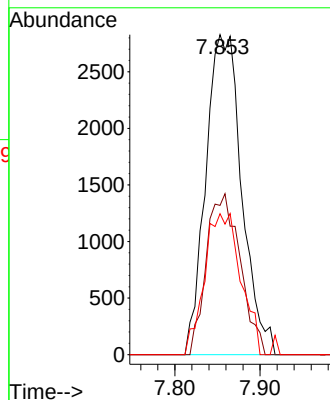
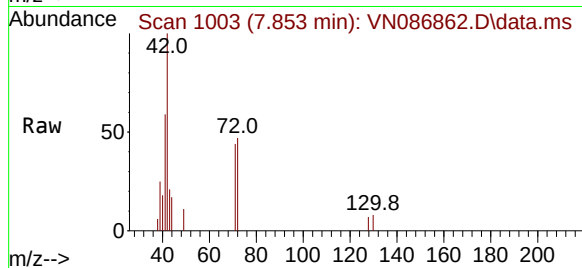
VSTDIC001

Tgt Ion:	42	Resp:	830
Ion	Ratio	Lower	Upper
42	100		
72	47.2	37.8	56.6
71	44.4	35.6	53.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 1.105 ug/l

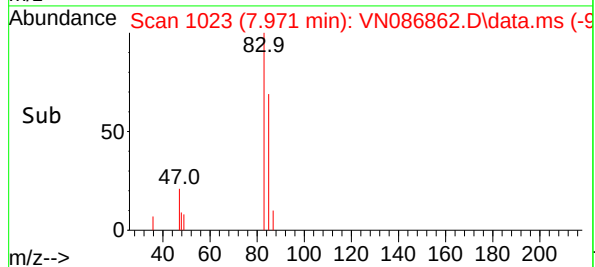
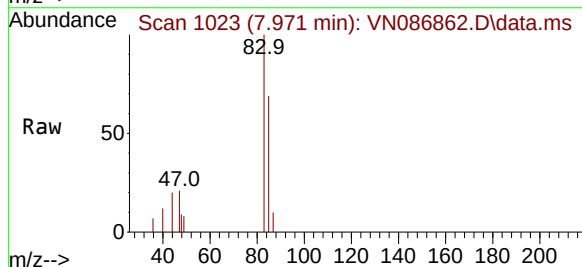
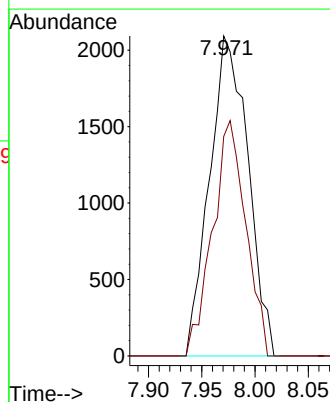
RT: 7.971 min Scan# 1023

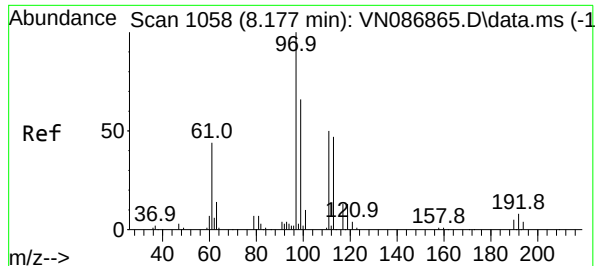
Delta R.T. -0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Tgt Ion:	83	Resp:	5255
Ion	Ratio	Lower	Upper
83	100		
85	68.6	52.9	79.3





#32

1,1,1-Trichloroethane

Concen: 1.082 ug/l

RT: 8.171 min Scan# 1058

Delta R.T. -0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 4378

Ion Ratio Lower Upper

97 100

99 0.0 52.0 78.0

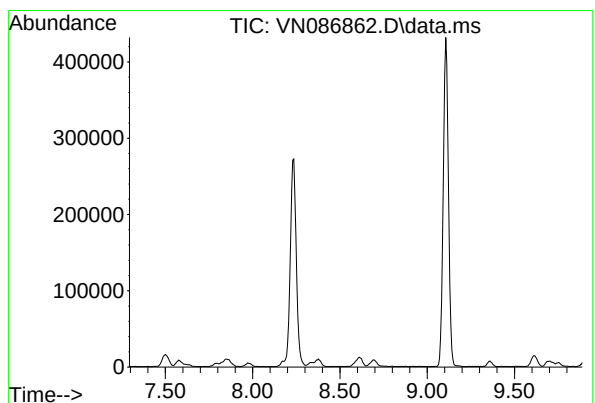
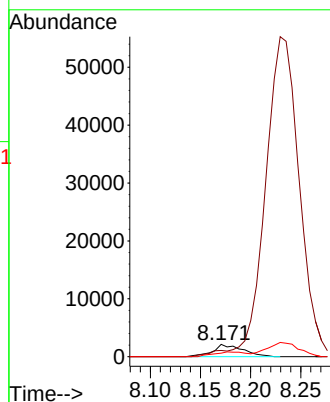
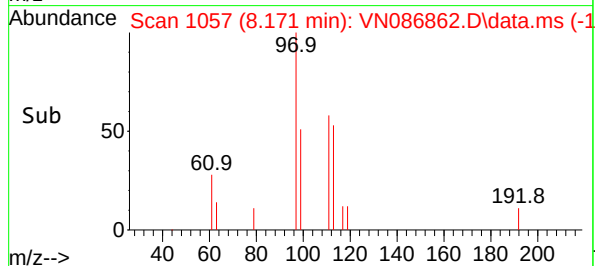
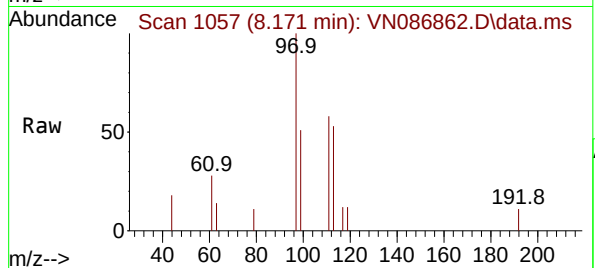
61 42.5 35.9 53.9

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: 8.59 min

Lab File: VN086862.D

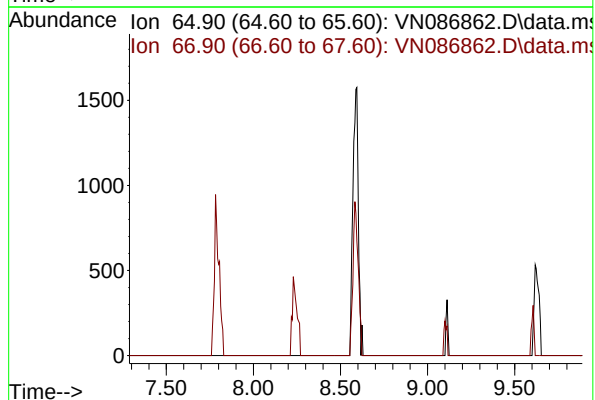
Acq: 06 Jun 2025 12:44

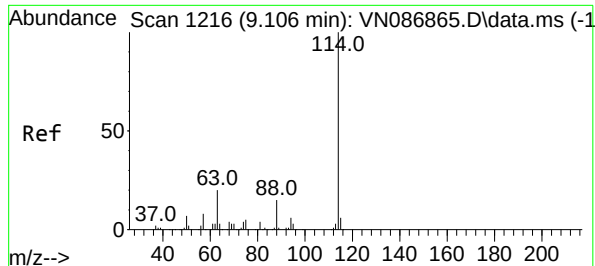
Tgt Ion: 65

Sig Exp Ratio

65 100

67 52.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 114 Resp: 39345

Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.6

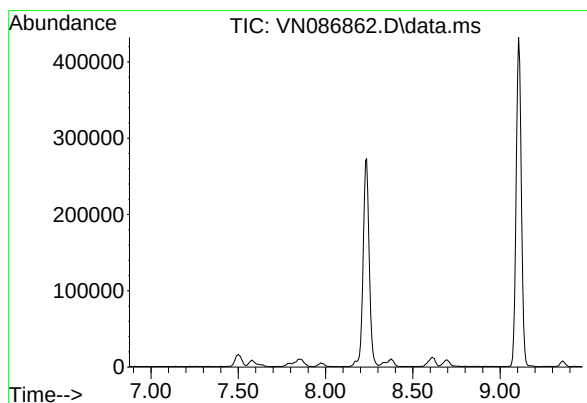
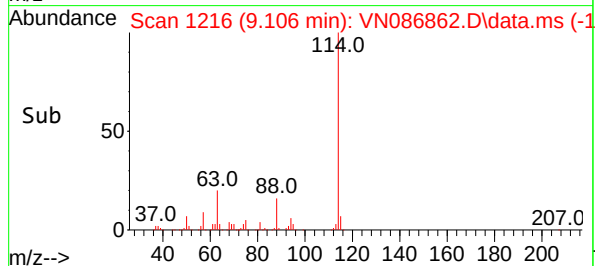
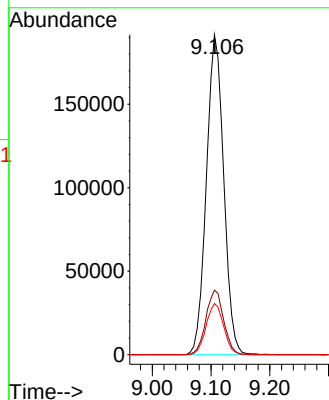
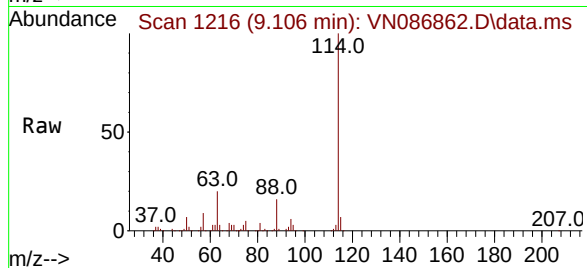
88 16.0 0.0 30.2

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: 8.17 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

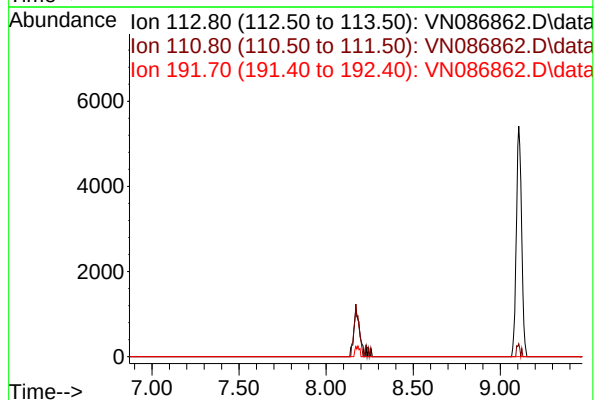
Tgt Ion: 113

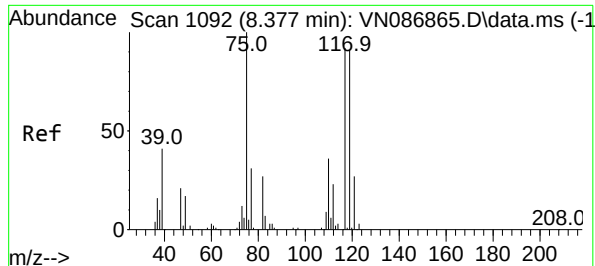
Sig Exp Ratio

113 100

111 105.2

192 17.8





#36

1,1-Dichloropropene

Concen: 1.059 ug/l

RT: 8.376 min Scan# 1092

Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

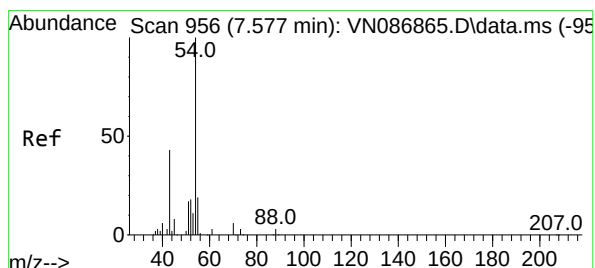
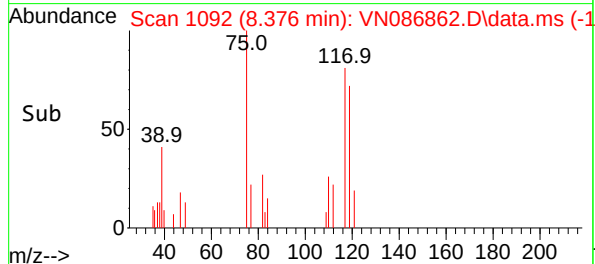
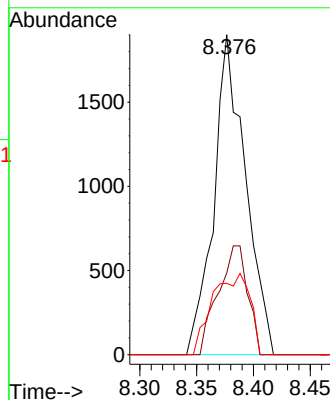
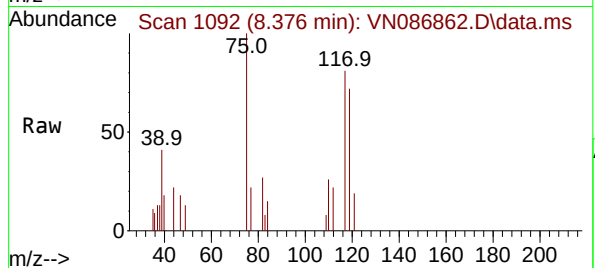
VSTDICC001

Tgt Ion:	75	Resp:	3678
Ion	Ratio	Lower	Upper
75	100		
110	31.8	17.6	52.9
77	30.2	25.3	37.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#37

Ethyl Acetate

Concen: 0.968 ug/l

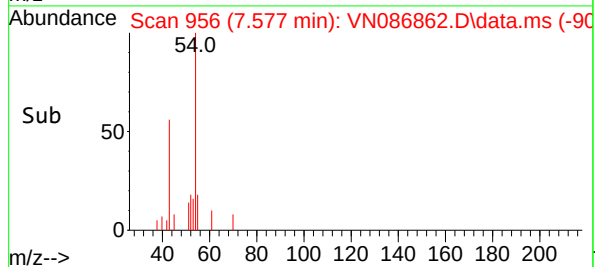
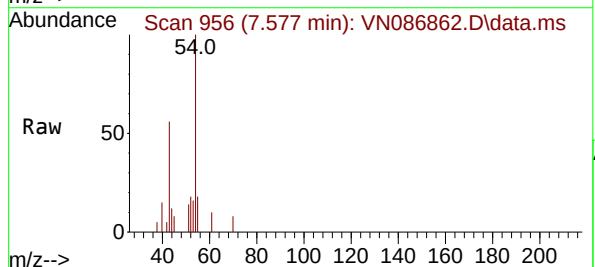
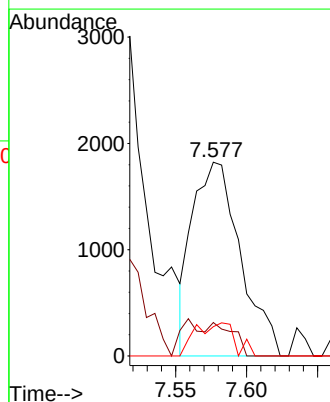
RT: 7.577 min Scan# 956

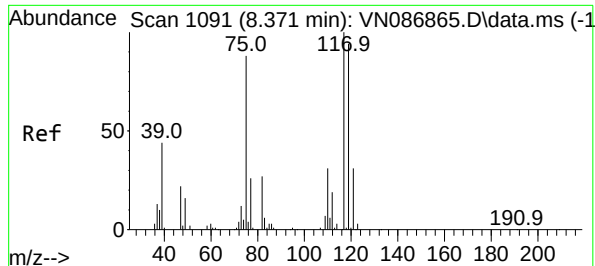
Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Tgt Ion:	43	Resp:	4282
Ion	Ratio	Lower	Upper
43	100		
61	0.0	12.1	18.1#
70	14.1	9.8	14.6





#38

Carbon Tetrachloride

Concen: 1.045 ug/l

RT: 8.376 min Scan# 1091

Delta R.T. 0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

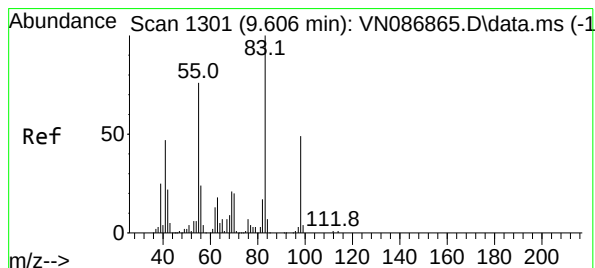
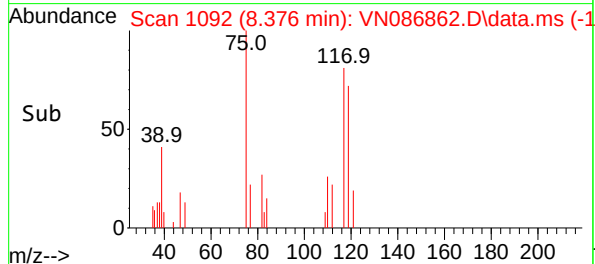
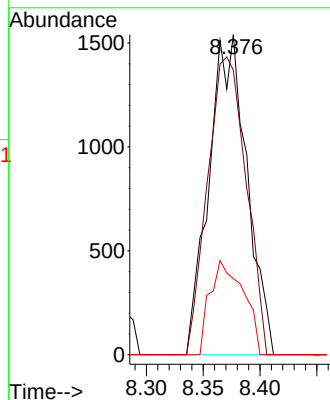
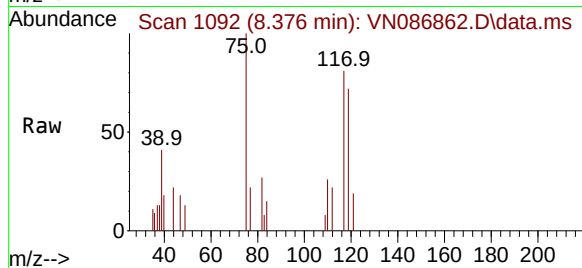
Tgt Ion:	117	Resp:	356
Ion	Ratio	Lower	Upper
117	100		
119	89.0	75.0	112.6
121	23.8	24.9	37.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#39

Methylcyclohexane

Concen: 1.046 ug/l

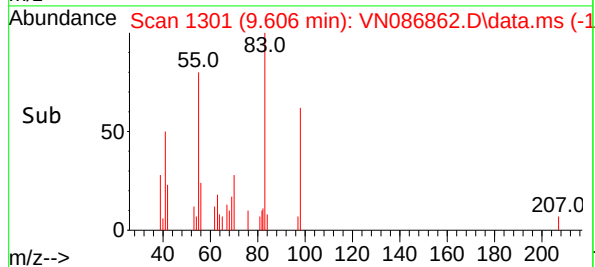
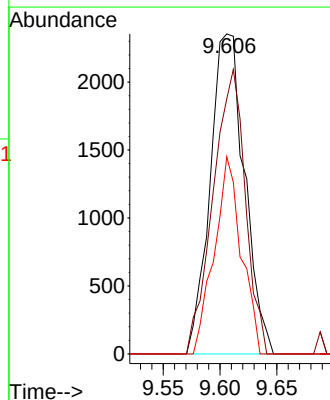
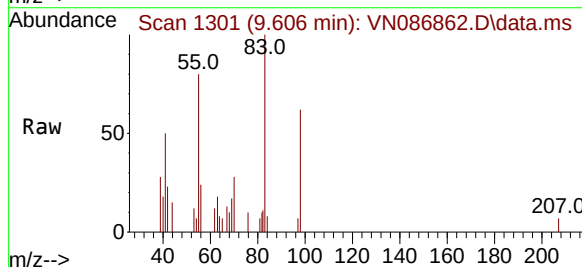
RT: 9.606 min Scan# 1301

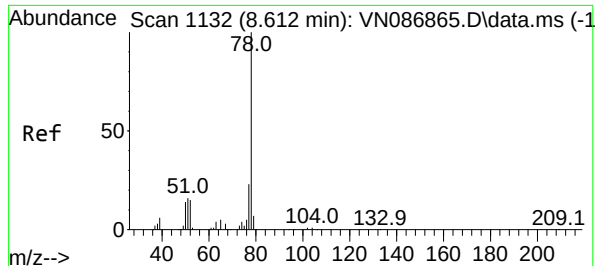
Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Tgt Ion:	83	Resp:	4981
Ion	Ratio	Lower	Upper
83	100		
55	79.7	61.0	91.6
98	61.6	38.9	58.3





#40

Benzene

Concen: 1.100 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 78 Resp: 12498

Ion Ratio Lower Upper

78 100

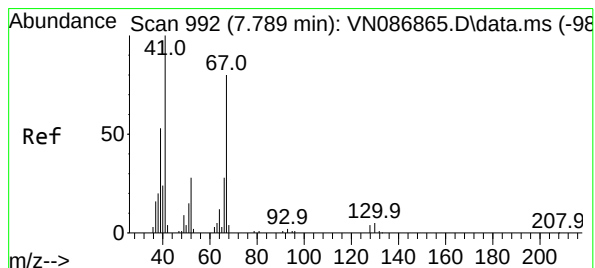
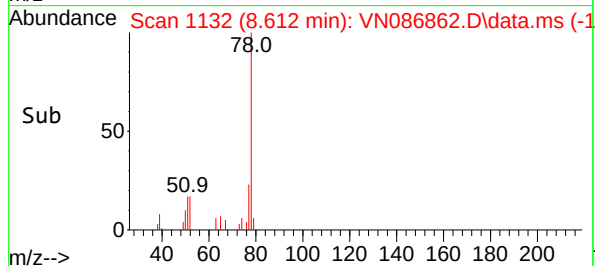
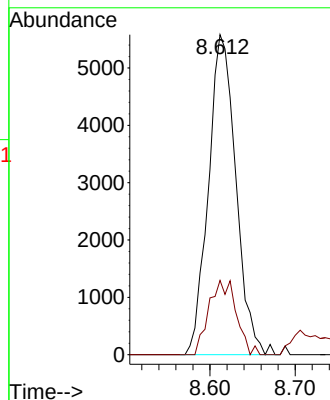
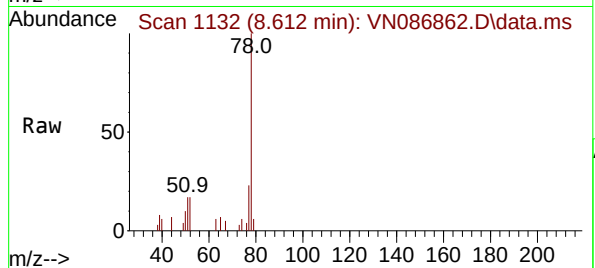
77 23.2 18.7 28.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#41

Methacrylonitrile

Concen: 1.127 ug/l

RT: 7.782 min Scan# 991

Delta R.T. -0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Tgt Ion: 41 Resp: 2799

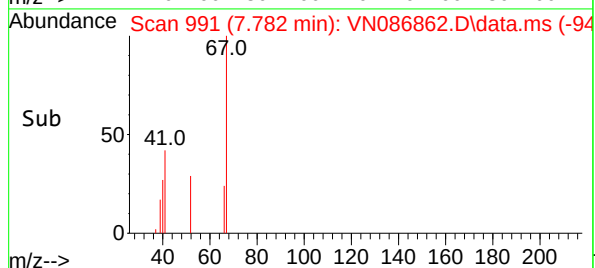
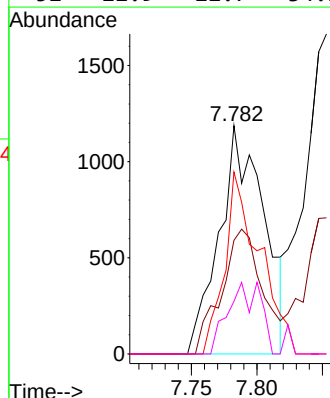
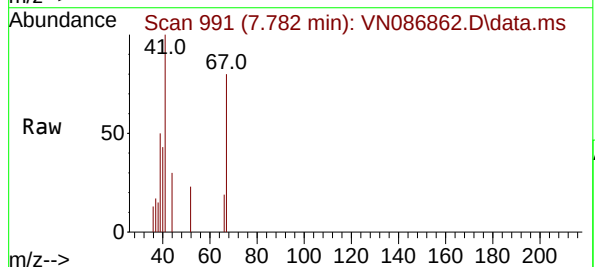
Ion Ratio Lower Upper

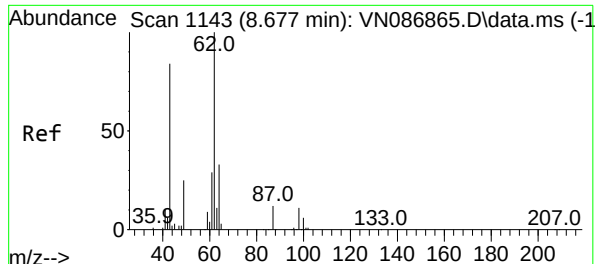
41 100

39 50.3 41.2 61.8

67 62.4 61.4 92.2

52 22.9 22.7 34.1





#42

1,2-Dichloroethane

Concen: 1.081 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

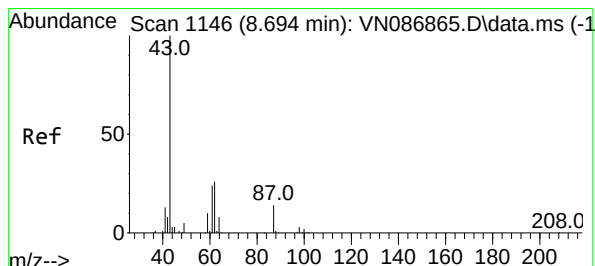
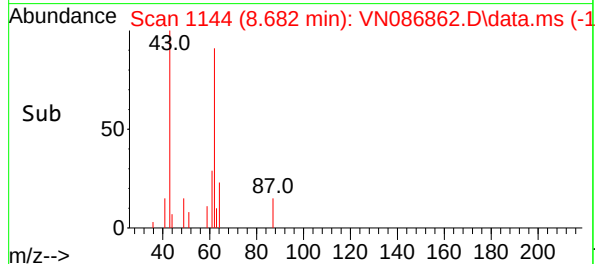
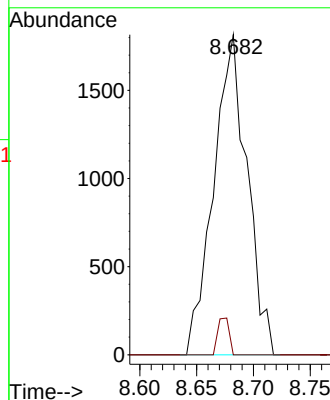
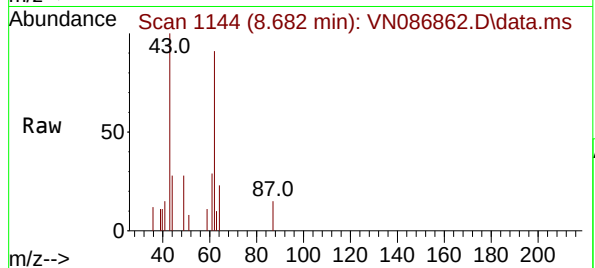
VSTDIC001

Tgt Ion: 62 Resp: 3729
Ion Ratio Lower Upper
62 100
98 3.9 0.0 21.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#43

Isopropyl Acetate

Concen: 1.081 ug/l

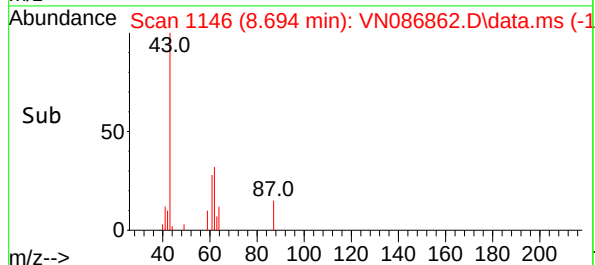
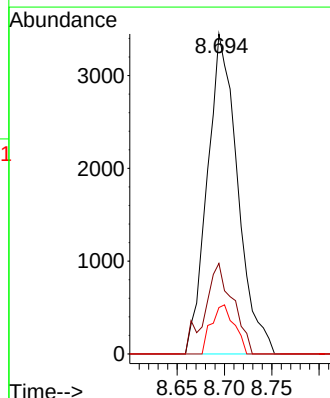
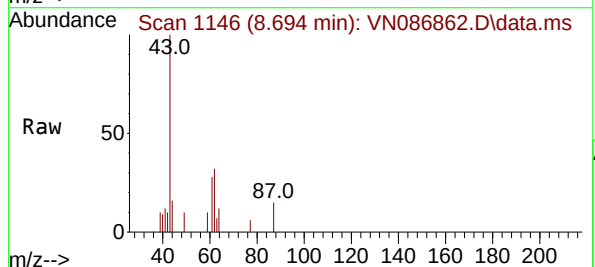
RT: 8.694 min Scan# 1146

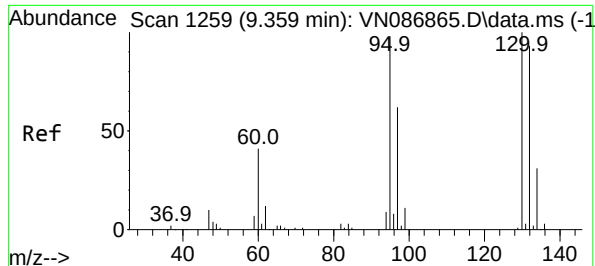
Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

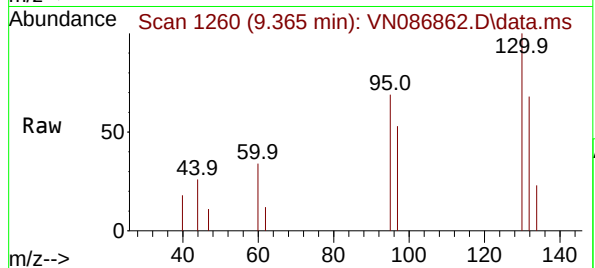
Tgt Ion: 43 Resp: 7673
Ion Ratio Lower Upper
43 100
61 26.2 22.1 33.1
87 11.7 11.8 17.6#





#44
Trichloroethene
Concen: 1.047 ug/l
RT: 9.365 min Scan# 1260
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

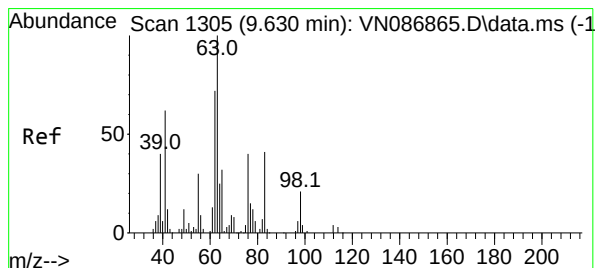
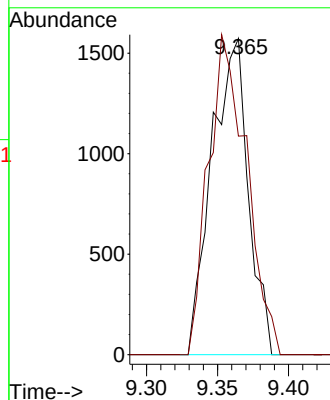
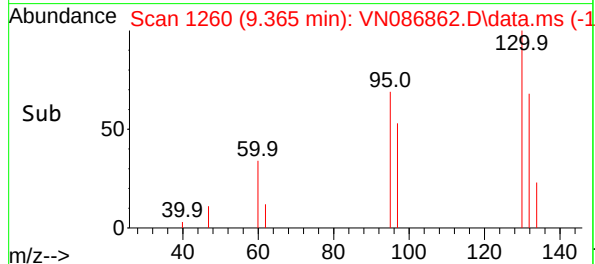
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



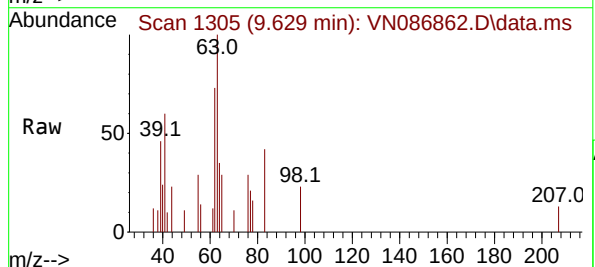
Tgt Ion:130 Resp: 282
Ion Ratio Lower Upper
130 100
95 69.1 0.0 196.2

Manual Integrations
APPROVED

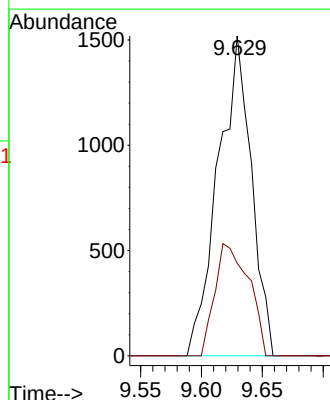
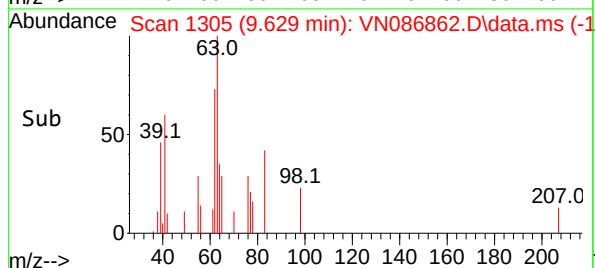
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

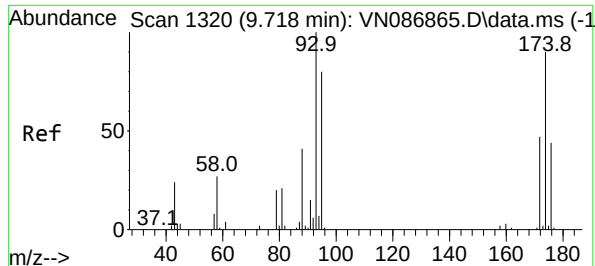


#45
1,2-Dichloropropane
Concen: 1.043 ug/l
RT: 9.629 min Scan# 1305
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44



Tgt Ion: 63 Resp: 2883
Ion Ratio Lower Upper
63 100
65 29.0 25.5 38.3





#46

Dibromomethane

Concen: 0.999 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. -0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

Tgt Ion: 93 Resp: 183

Ion Ratio Lower Upper

93 100

95 87.6 67.1 100.7

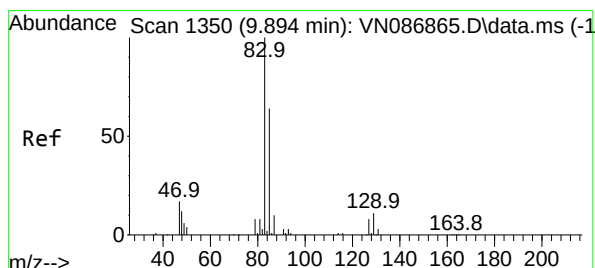
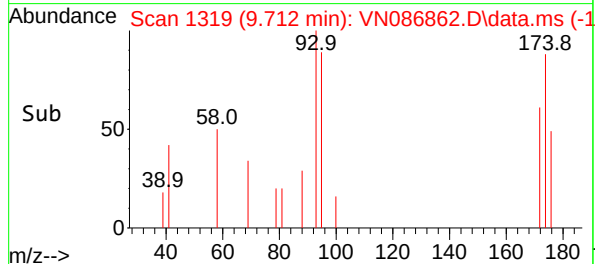
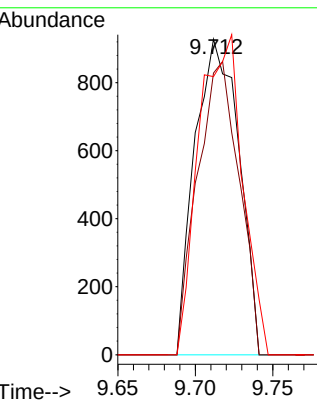
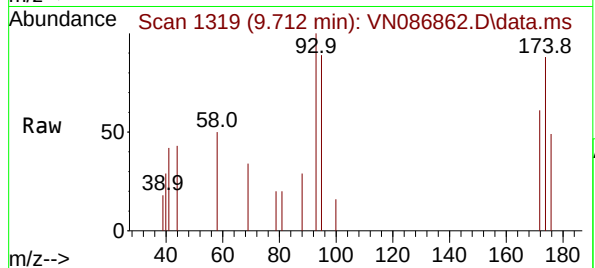
174 100.5 74.2 111.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#47

Bromodichloromethane

Concen: 1.063 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

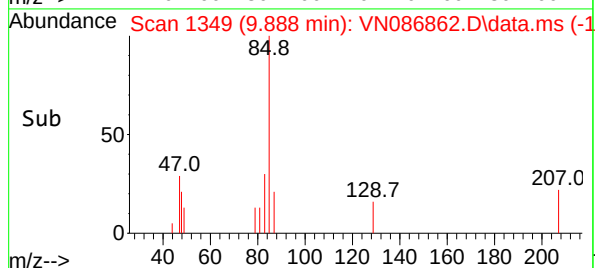
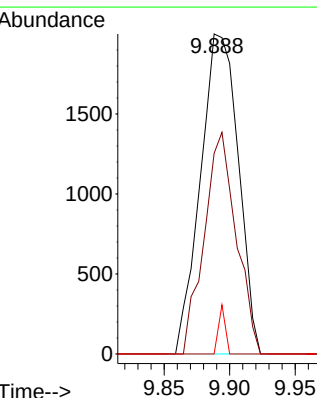
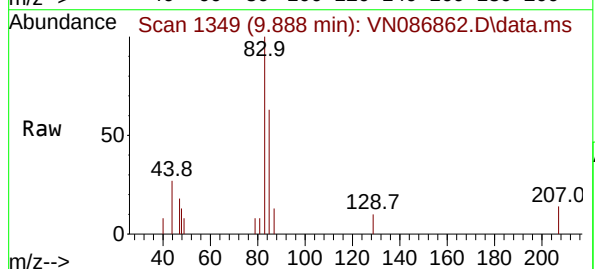
Tgt Ion: 83 Resp: 4017

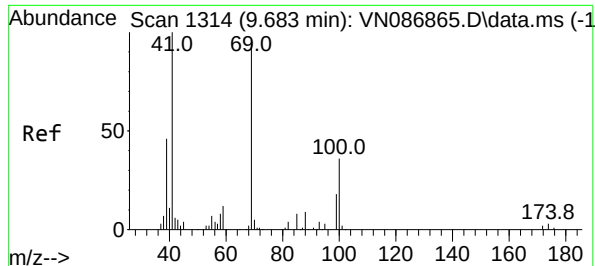
Ion Ratio Lower Upper

83 100

85 62.7 50.9 76.3

127 0.0 6.6 10.0#





#48

Methyl methacrylate

Concen: 1.069 ug/l

RT: 9.688 min Scan# 1315

Delta R.T. 0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC001

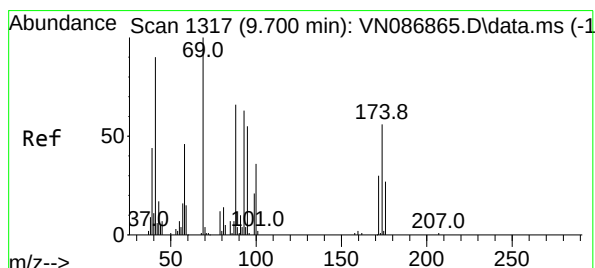
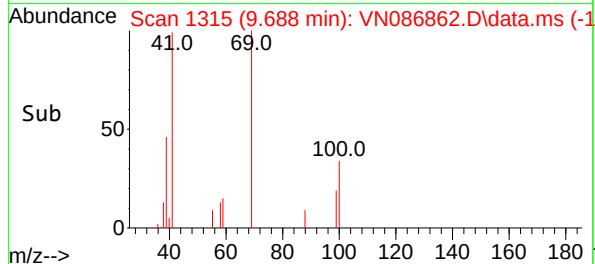
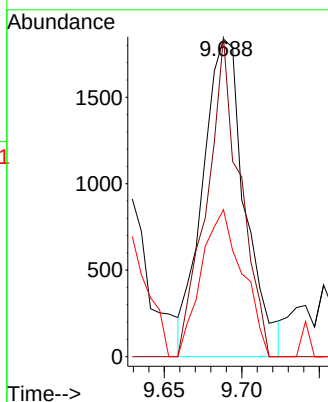
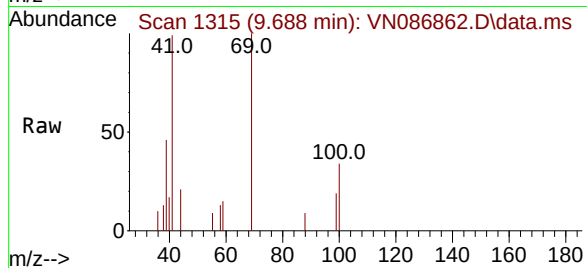
Tgt Ion:	41	Resp:	349
Ion	Ratio	Lower	Upper
41	100		
69	79.4	74.6	112.0
39	44.9	40.2	60.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#49

1,4-Dioxane

Concen: 16.891 ug/l

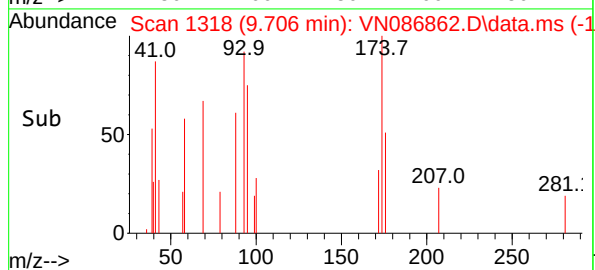
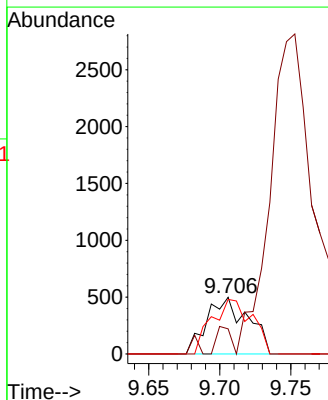
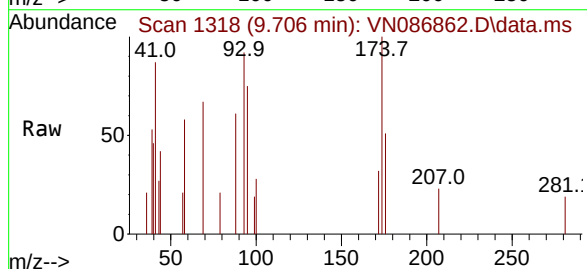
RT: 9.706 min Scan# 1318

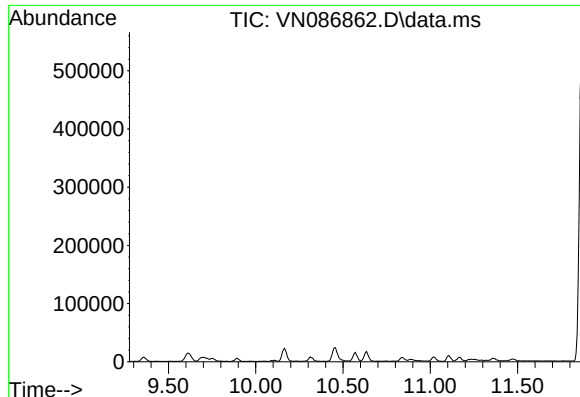
Delta R.T. 0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Tgt Ion:	88	Resp:	1004
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	94.0	57.7	86.5





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 10.57 min

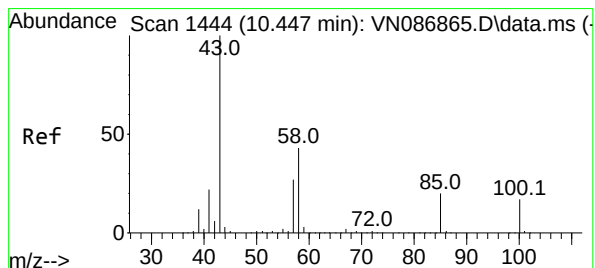
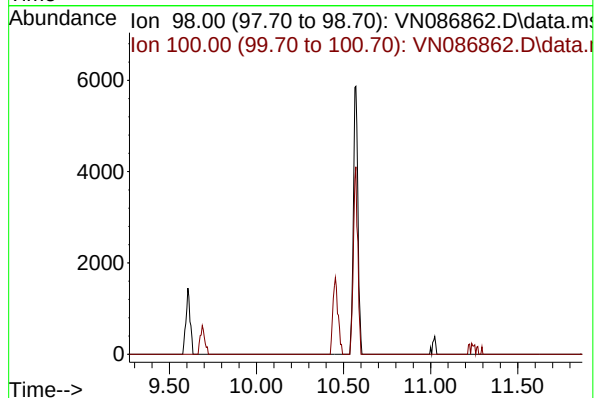
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 98
Sig Exp Ratio
98 100
100 66.7

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

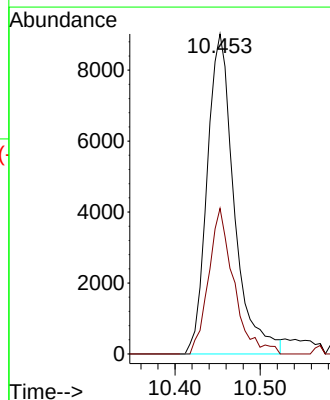
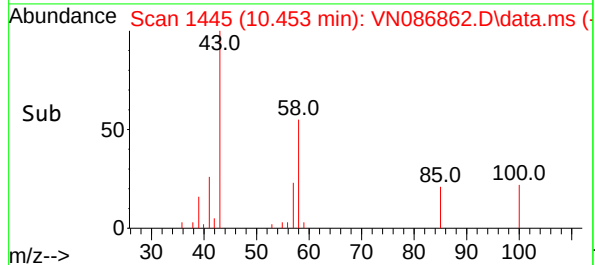
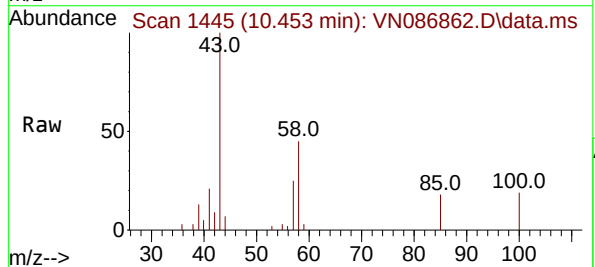
Manual Integrations
APPROVED

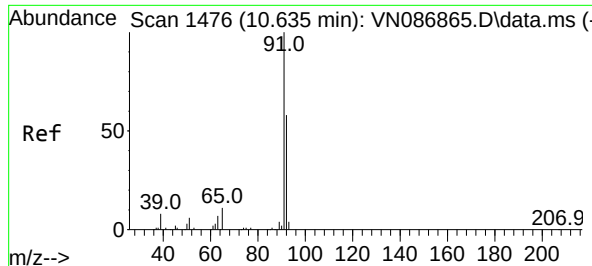
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#51
4-Methyl-2-Pentanone
Concen: 4.653 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 43 Resp: 19886
Ion Ratio Lower Upper
43 100
58 42.3 34.2 51.4





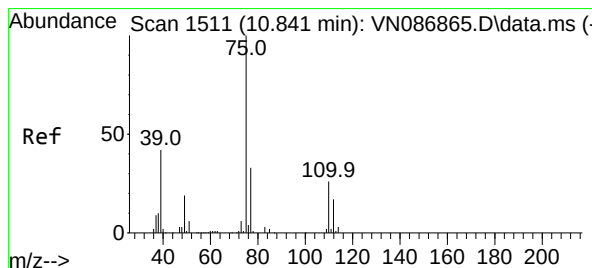
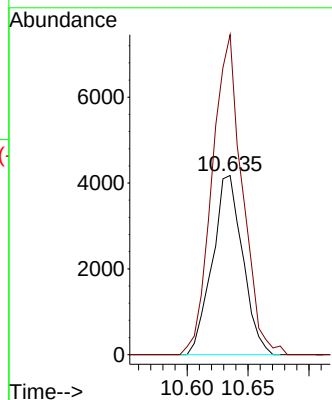
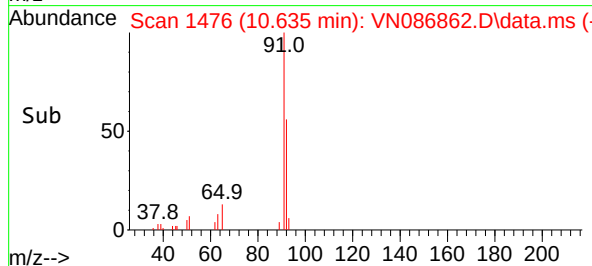
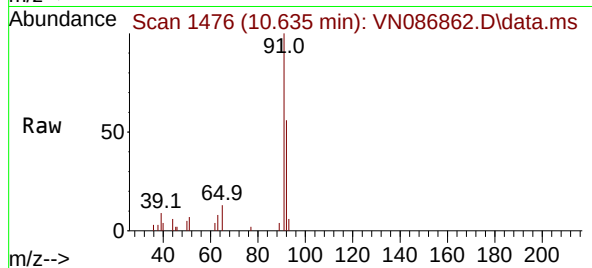
#52
Toluene
Concen: 1.041 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 92 Resp: 722
Ion Ratio Lower Upper
92 100
91 178.1 136.5 204.7

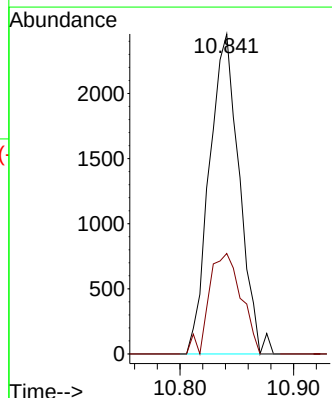
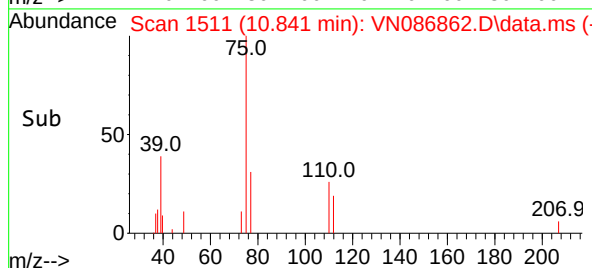
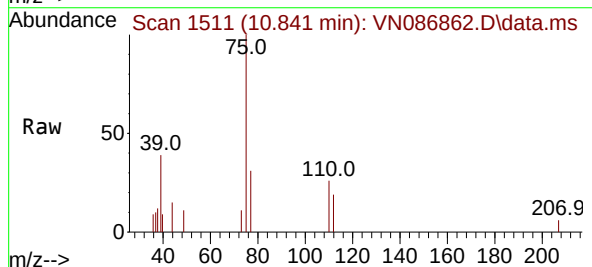
Manual Integrations
APPROVED

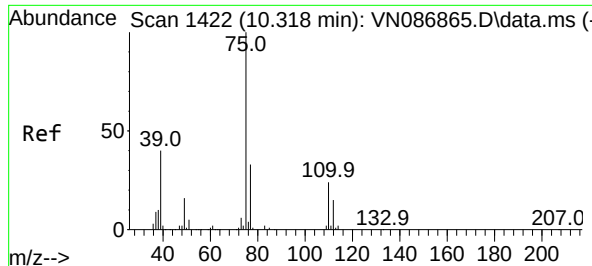
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#53
t-1,3-Dichloropropene
Concen: 1.064 ug/l
RT: 10.841 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

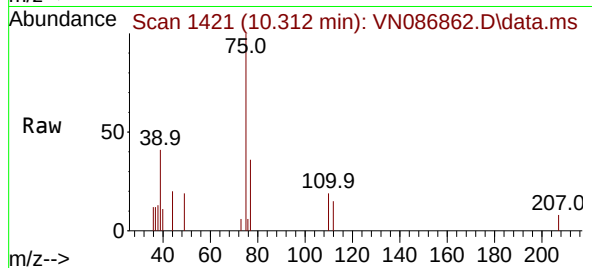
Tgt Ion: 75 Resp: 4494
Ion Ratio Lower Upper
75 100
77 31.4 26.4 39.6





#54
cis-1,3-Dichloropropene
Concen: 1.060 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

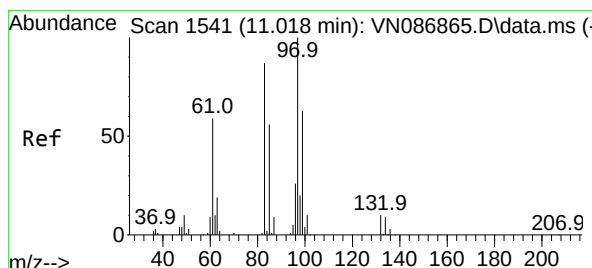
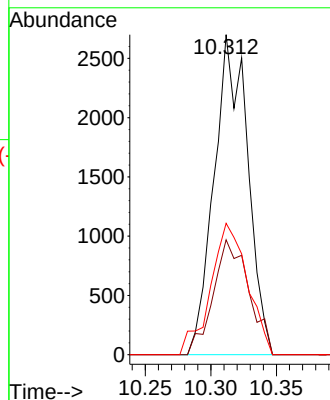
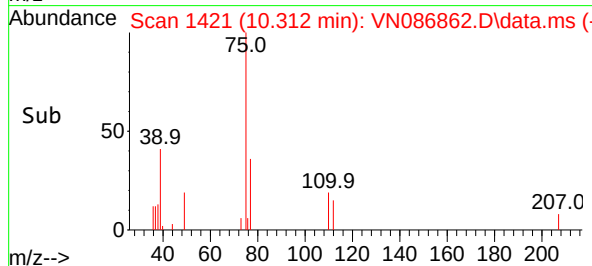
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 75 Resp: 4792
Ion Ratio Lower Upper
75 100
77 35.9 26.2 39.4
39 41.1 32.3 48.5

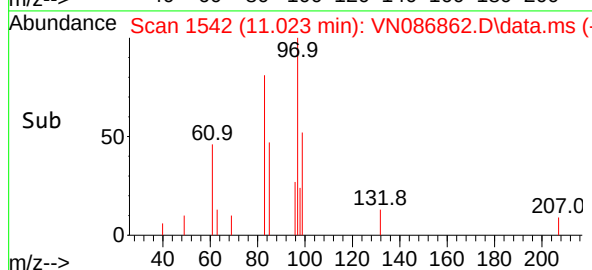
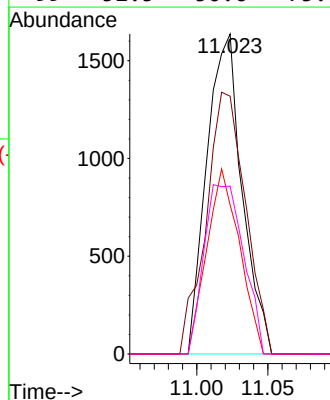
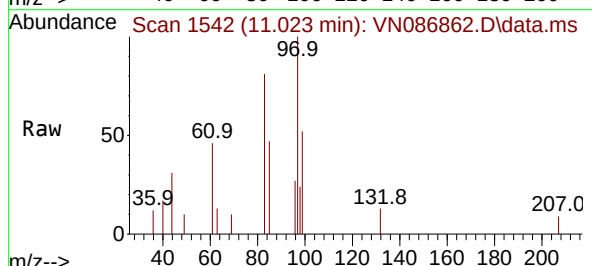
Manual Integrations
APPROVED

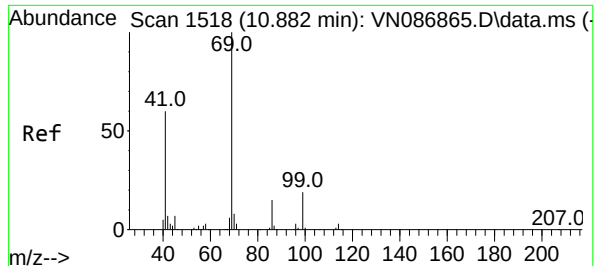
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#55
1,1,2-Trichloroethane
Concen: 1.058 ug/l
RT: 11.023 min Scan# 1542
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

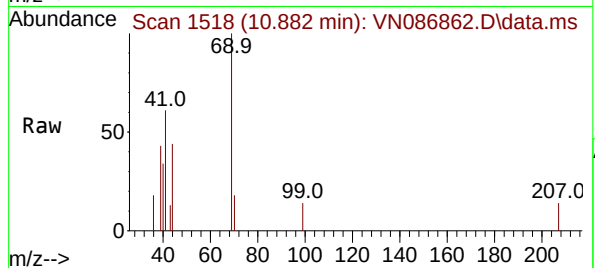
Tgt Ion: 97 Resp: 2828
Ion Ratio Lower Upper
97 100
83 80.6 69.7 104.5
85 46.5 45.1 67.7
99 52.5 50.6 75.8





#56
Ethyl methacrylate
Concen: 0.800 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

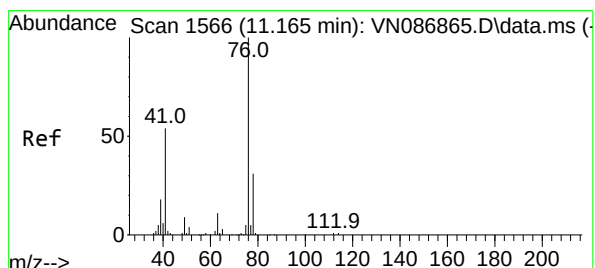
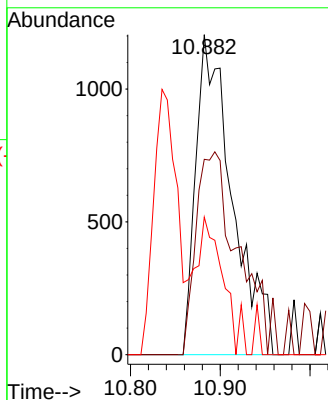
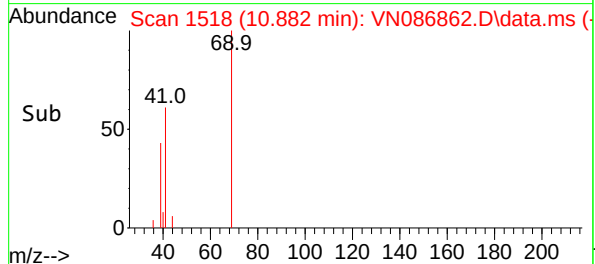
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001



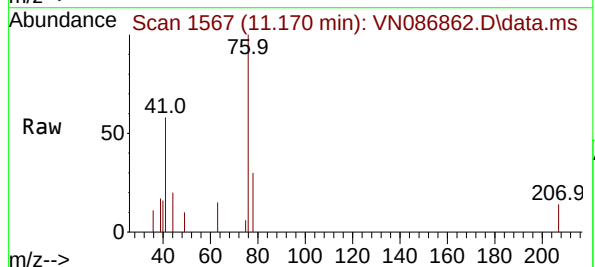
Tgt Ion: 69 Resp: 3400
Ion Ratio Lower Upper
69 100
41 73.5 47.2 70.8
39 31.6 23.0 34.6

Manual Integrations
APPROVED

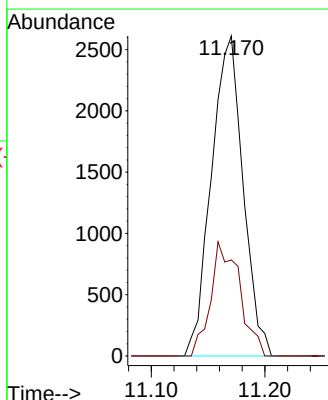
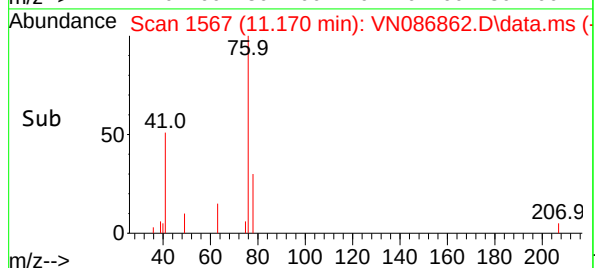
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

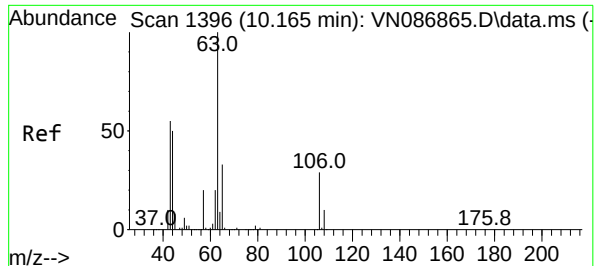


#57
1,3-Dichloropropane
Concen: 1.092 ug/l
RT: 11.170 min Scan# 1567
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44



Tgt Ion: 76 Resp: 5062
Ion Ratio Lower Upper
76 100
78 32.8 25.3 37.9





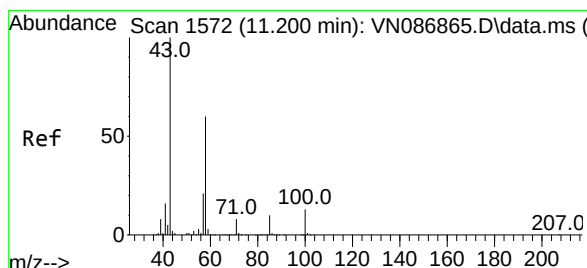
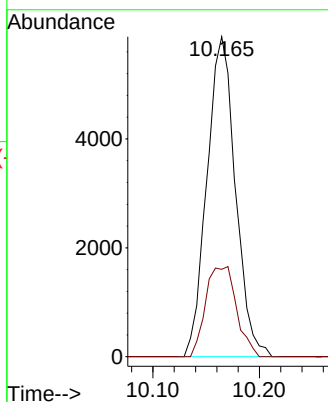
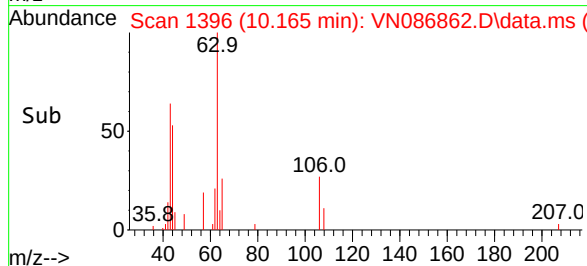
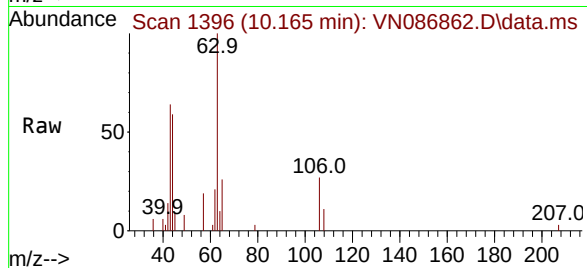
#58
2-Chloroethyl Vinyl ether
Concen: 4.304 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 63 Resp: 10924
Ion Ratio Lower Upper
63 100
106 30.4 23.0 34.6

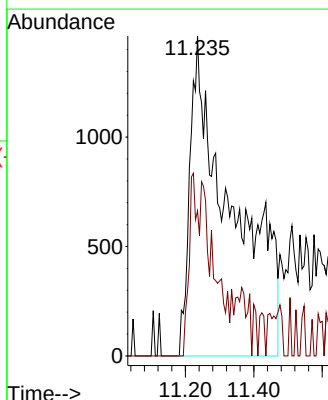
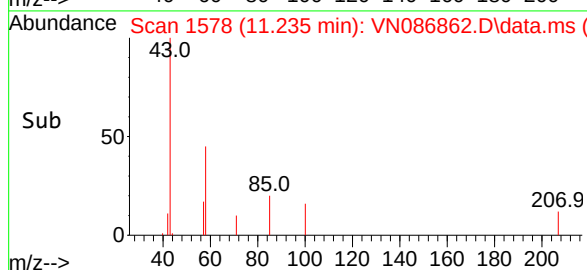
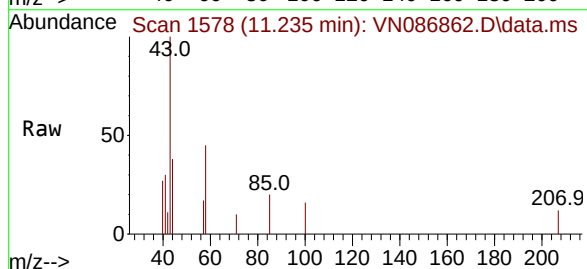
Manual Integrations
APPROVED

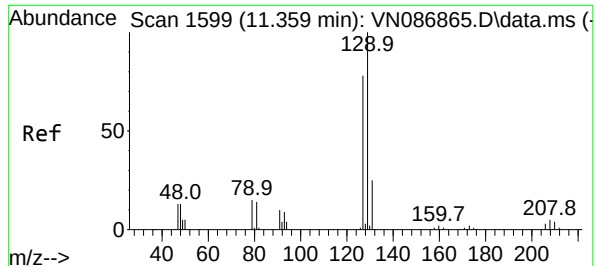
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#59
2-Hexanone
Concen: 4.466 ug/l m
RT: 11.235 min Scan# 1578
Delta R.T. 0.035 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

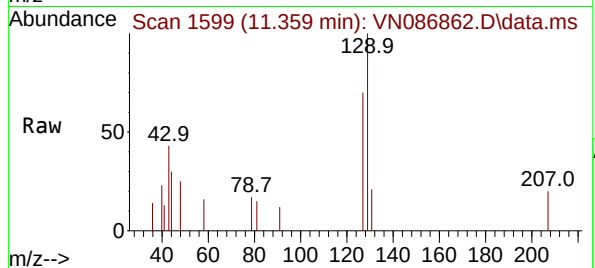
Tgt Ion: 43 Resp: 12295
Ion Ratio Lower Upper
43 100
58 4.7 30.4 91.3#





#60
Dibromochloromethane
Concen: 1.021 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

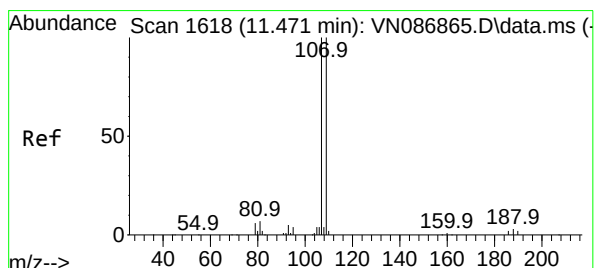
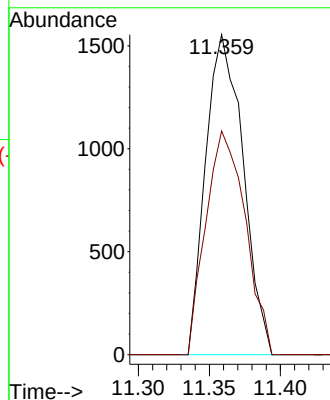
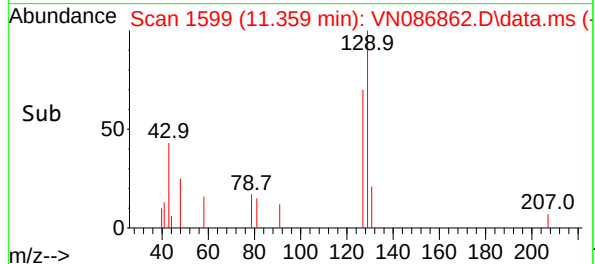
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



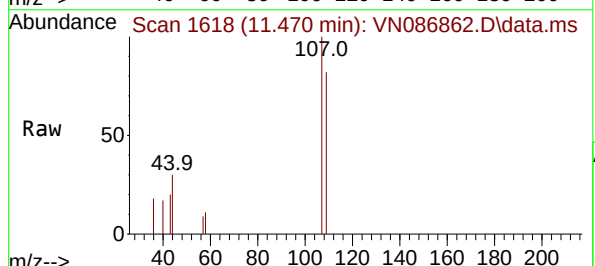
Tgt Ion:129 Resp: 284
Ion Ratio Lower Upper
129 100
127 73.8 38.6 115.8

Manual Integrations
APPROVED

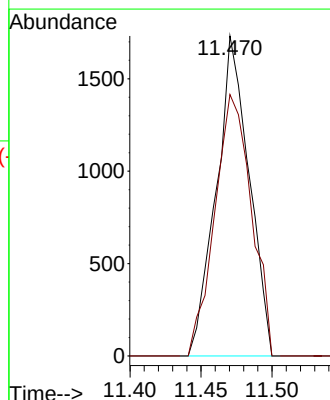
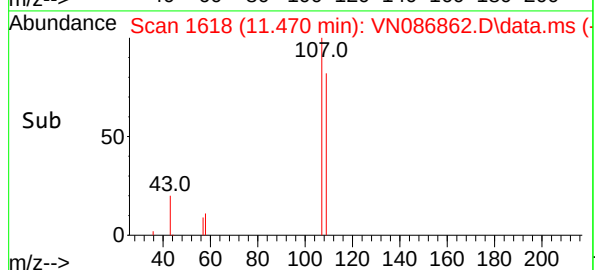
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

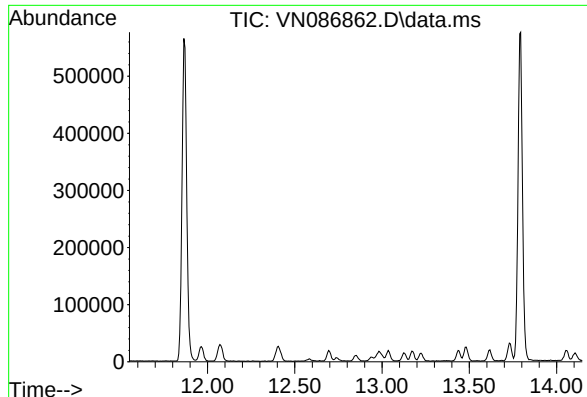


#61
1,2-Dibromoethane
Concen: 1.014 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44



Tgt Ion:107 Resp: 2777
Ion Ratio Lower Upper
107 100
109 91.2 76.3 114.5





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 12.85 min

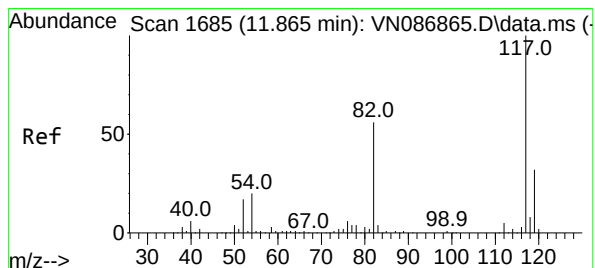
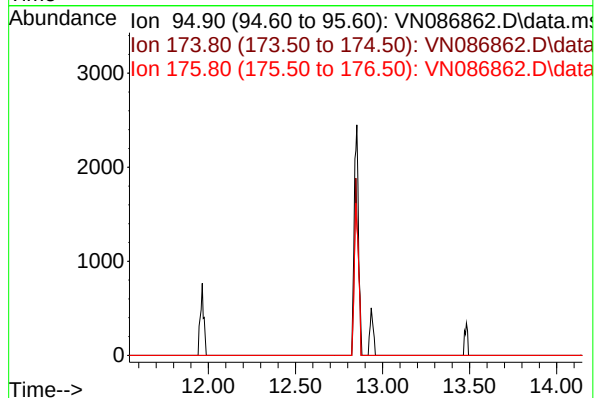
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 95
Sig Exp Ratio
95 100
174 70.9
176 66.3

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

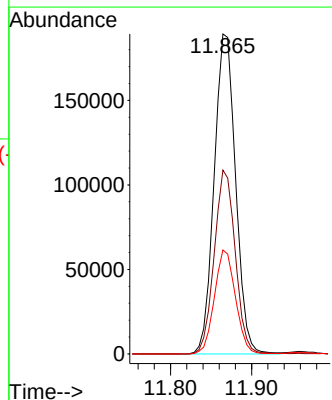
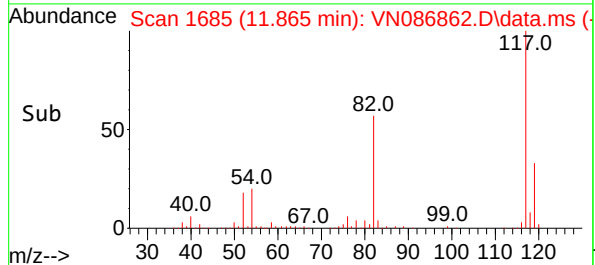
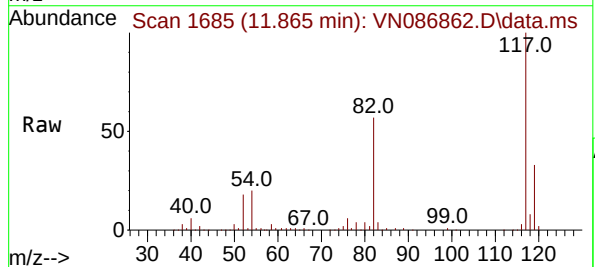
Manual Integrations
APPROVED

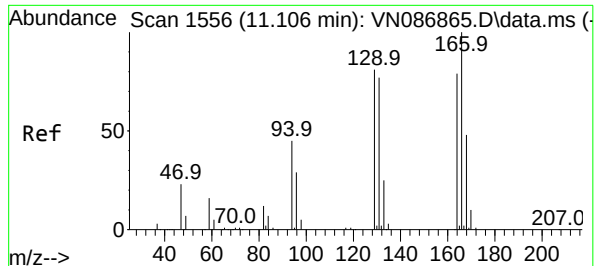
Reviewed By : John Carlone 06/09/2025
Supervised By : Mahesh Dadoda 06/09/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

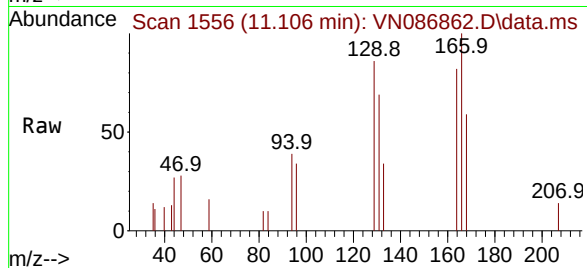
Tgt Ion: 117 Resp: 348010
Ion Ratio Lower Upper
117 100
82 57.5 44.6 67.0
119 32.5 25.5 38.3





#64
Tetrachloroethene
Concen: 1.123 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

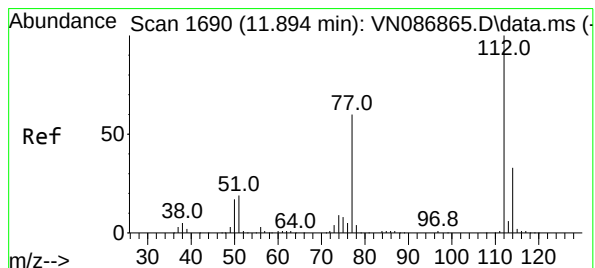
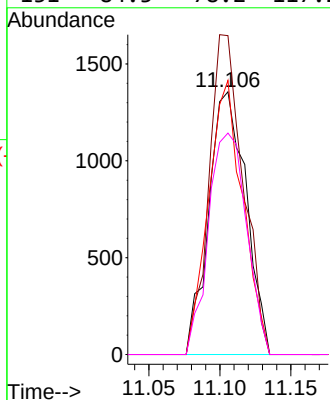
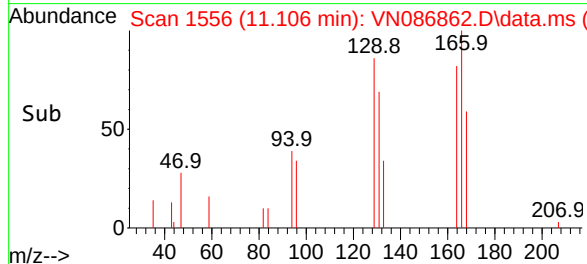
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion:164 Resp: 247
Ion Ratio Lower Upper
164 100
166 121.4 101.8 152.8
129 104.4 83.0 124.4
131 84.3 78.2 117.2

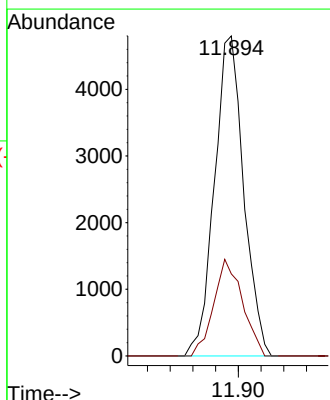
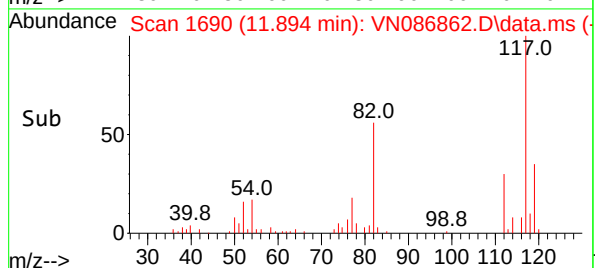
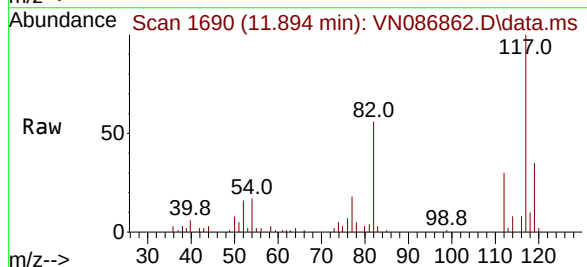
Manual Integrations
APPROVED

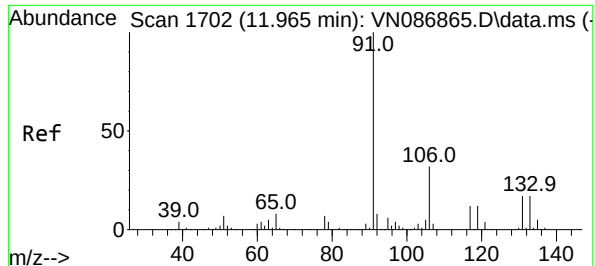
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#65
Chlorobenzene
Concen: 1.118 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:112 Resp: 8581
Ion Ratio Lower Upper
112 100
114 25.7 26.2 39.2#





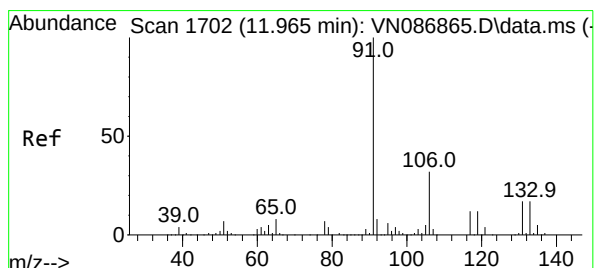
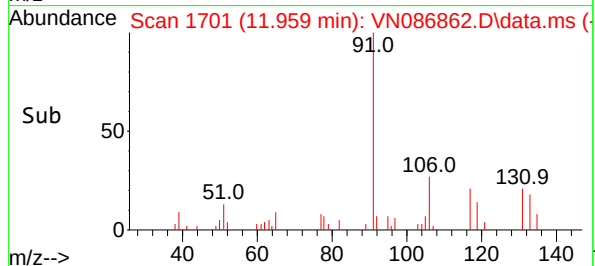
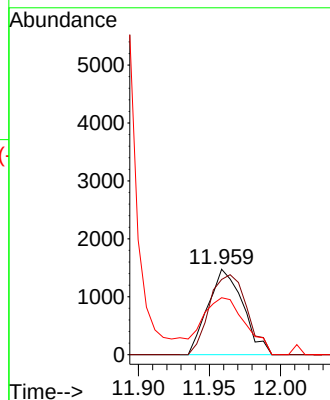
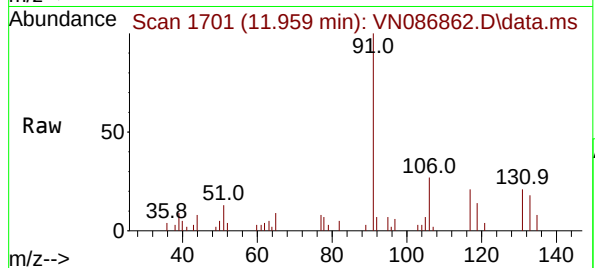
#66
1,1,1,2-Tetrachloroethane
Concen: 1.023 ug/l
RT: 11.959 min Scan# 1700
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tgt Ion:131 Resp: 252
Ion Ratio Lower Upper
131 100
133 100.9 48.3 144.8
119 0.0 34.0 101.8

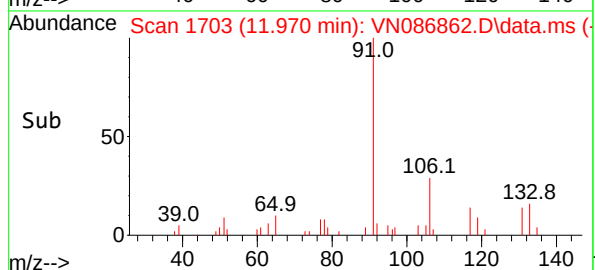
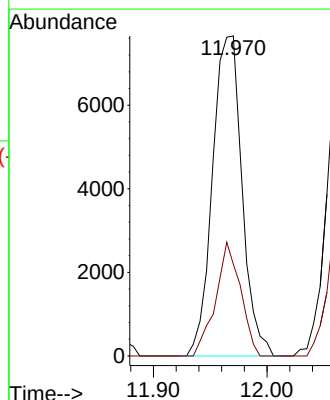
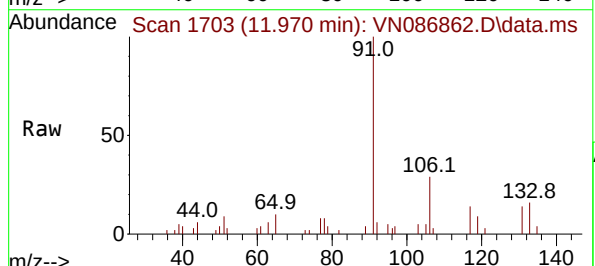
Manual Integrations
APPROVED

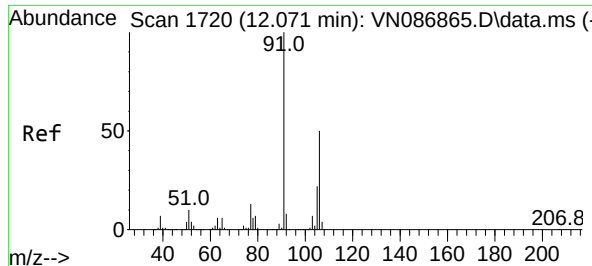
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#67
Ethyl Benzene
Concen: 1.047 ug/l
RT: 11.970 min Scan# 1703
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 91 Resp: 13845
Ion Ratio Lower Upper
91 100
106 28.7 25.4 38.2





#68

m/p-Xylenes

Concen: 2.008 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:106 Resp: 1016

Ion Ratio Lower Upper

106 100

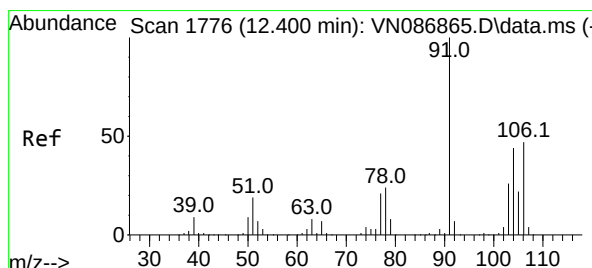
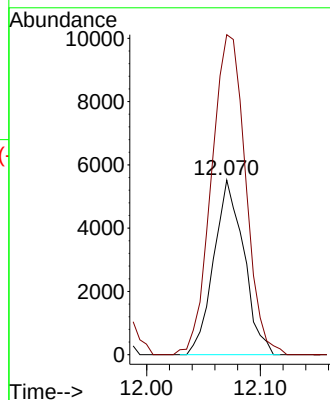
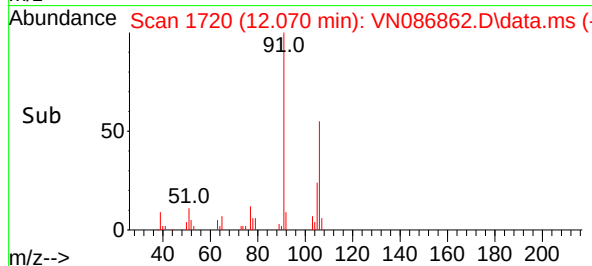
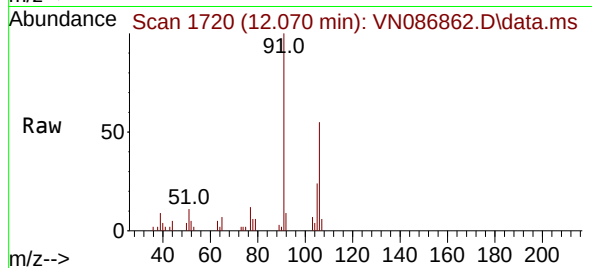
91 207.3 159.4 239.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#69

o-Xylene

Concen: 1.025 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. -0.000 min

Lab File: VN086862.D

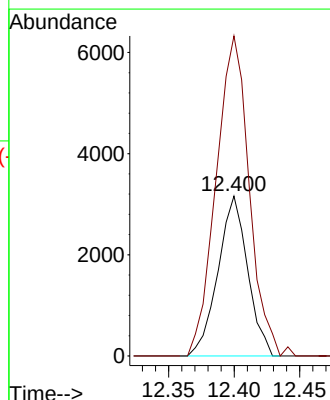
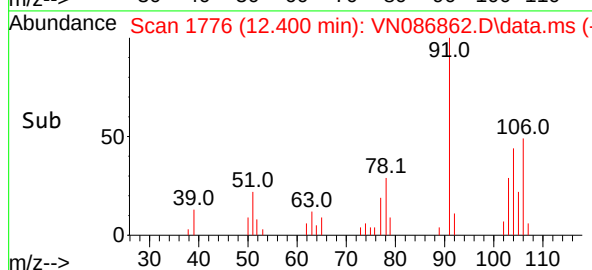
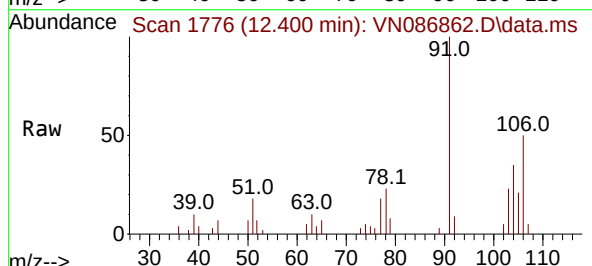
Acq: 06 Jun 2025 12:44

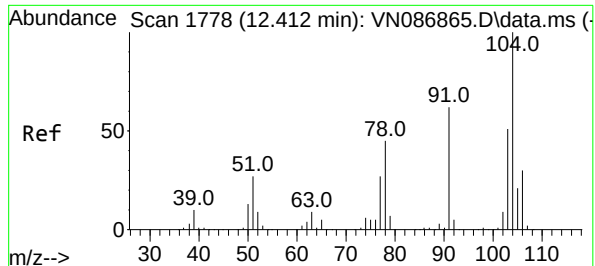
Tgt Ion:106 Resp: 4970

Ion Ratio Lower Upper

106 100

91 223.6 106.1 318.1





#70

Styrene

Concen: 0.987 ug/l

RT: 12.417 min Scan# 1778

Delta R.T. 0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

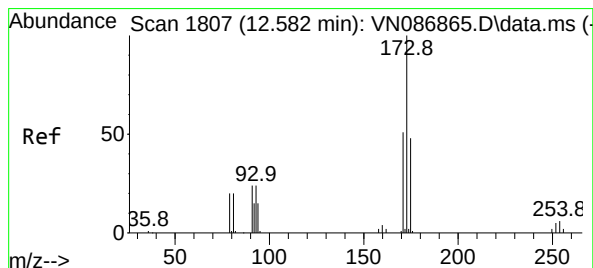
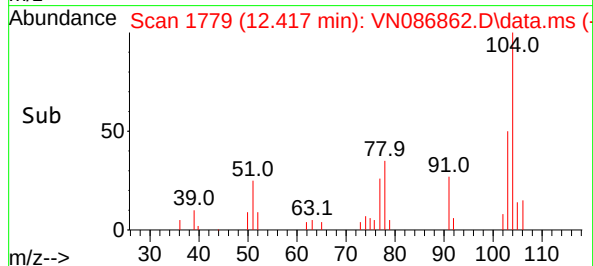
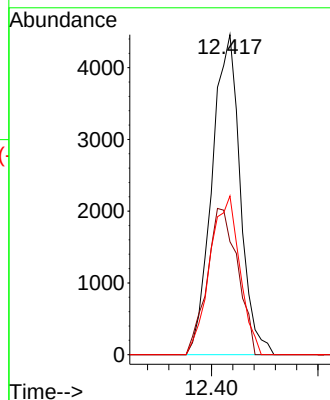
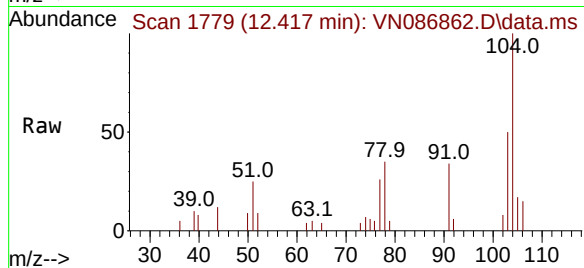
VSTDIC001

Tgt Ion:	104	Resp:	818
Ion Ratio	Lower	Upper	
104	100		
78	49.6	38.5	57.7
103	52.5	43.1	64.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#71

Bromoform

Concen: 0.825 ug/l

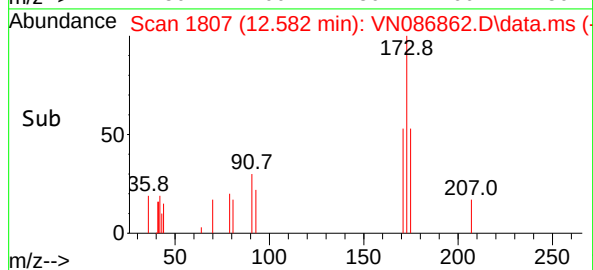
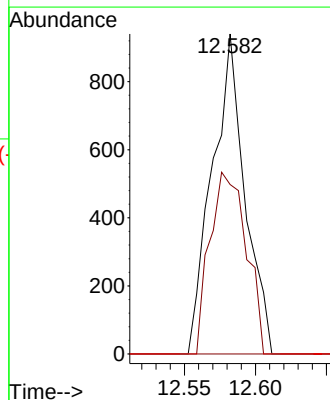
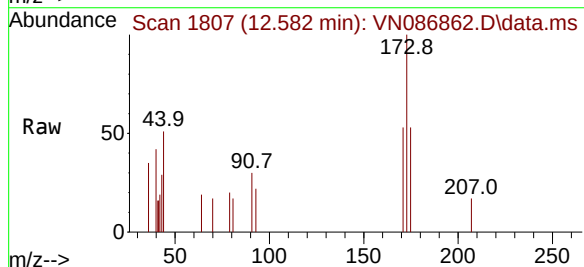
RT: 12.582 min Scan# 1807

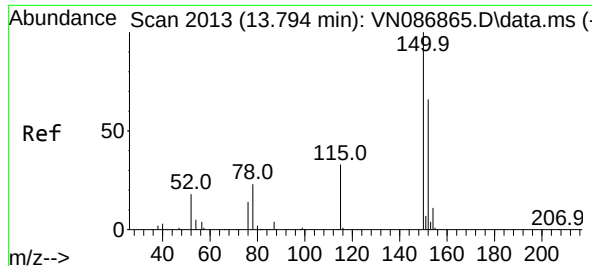
Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

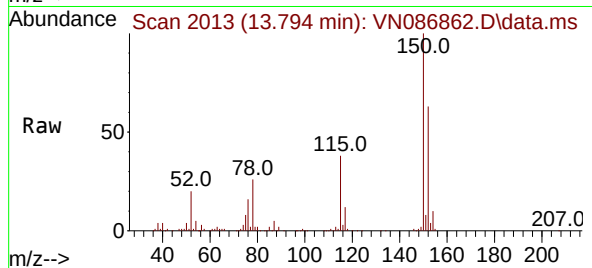
Tgt Ion:	173	Resp:	1508
Ion Ratio	Lower	Upper	
173	100		
175	63.1	24.1	72.4
254	0.0	0.0	0.0





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

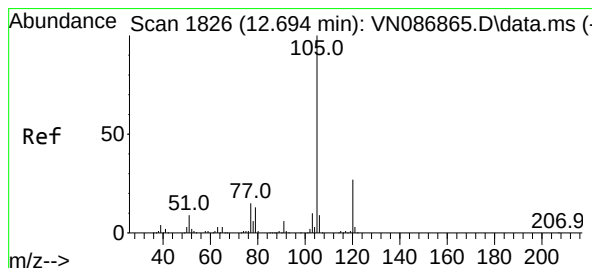
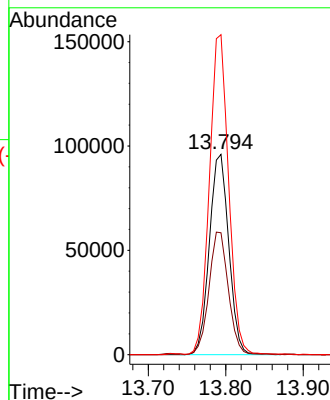
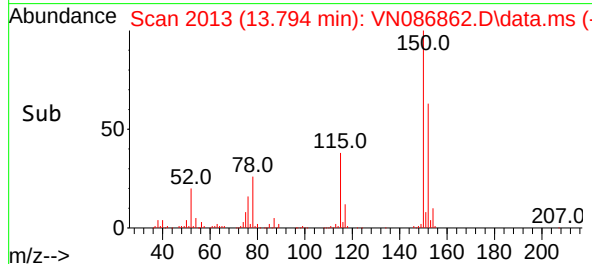
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



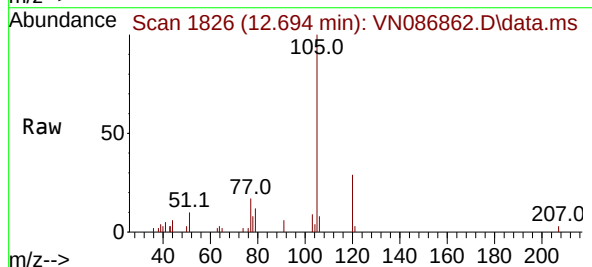
Tgt Ion:152 Resp: 167399
Ion Ratio Lower Upper
152 100
115 61.1 30.1 90.5
150 158.0 0.0 345.0

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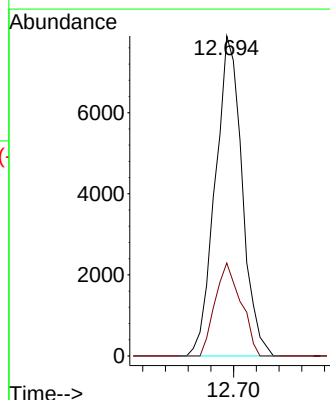
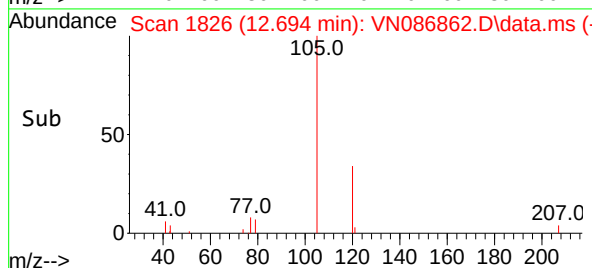
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

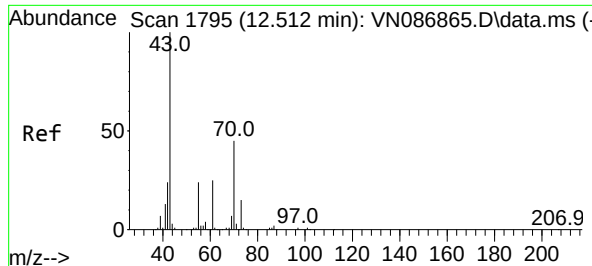


#73
Isopropylbenzene
Concen: 1.061 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44



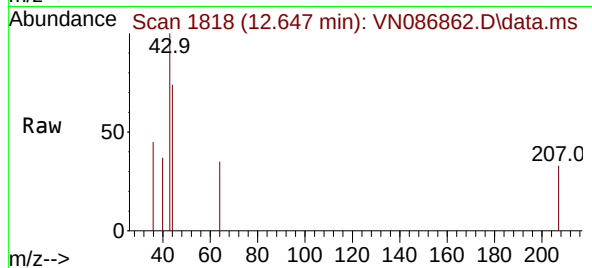
Tgt Ion:105 Resp: 12938
Ion Ratio Lower Upper
105 100
120 28.1 13.5 40.4





#74
N-amy1 acetate
Concen: 1.138 ug/l m
RT: 12.647 min Scan# 1818
Delta R.T. 0.135 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

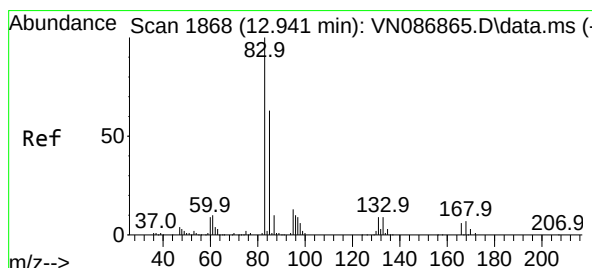
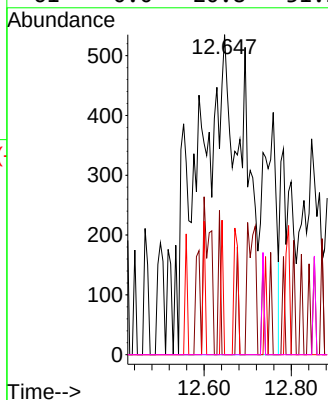
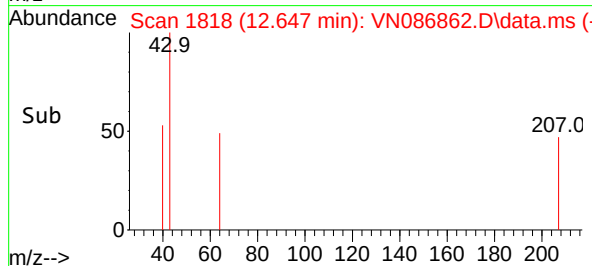
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



Tgt Ion: 43 Resp: 4608
Ion Ratio Lower Upper
43 100
70 0.0 37.6 56.4#
55 0.0 19.0 28.6#
61 0.0 20.8 31.2#

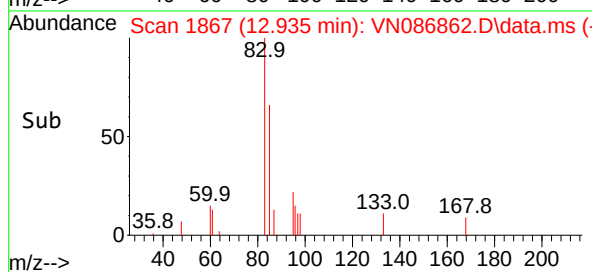
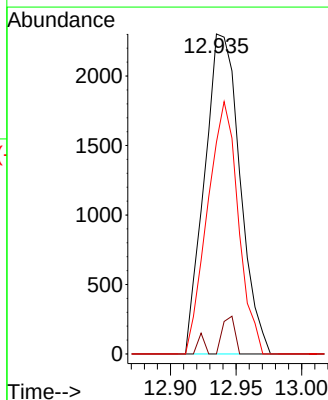
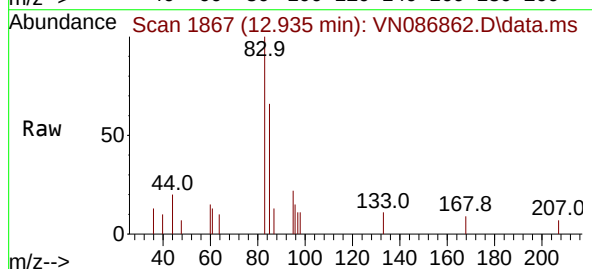
Manual Integrations
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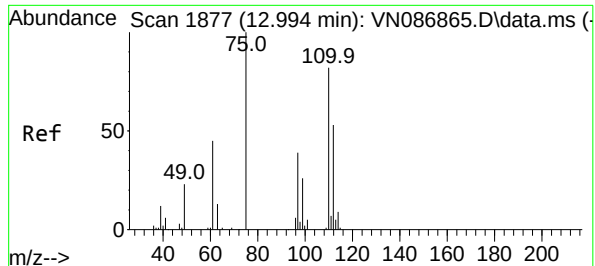
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#75
1,1,2,2-Tetrachloroethane
Concen: 1.047 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 83 Resp: 4326
Ion Ratio Lower Upper
83 100
131 4.1 4.9 14.7#
85 68.6 32.0 96.0





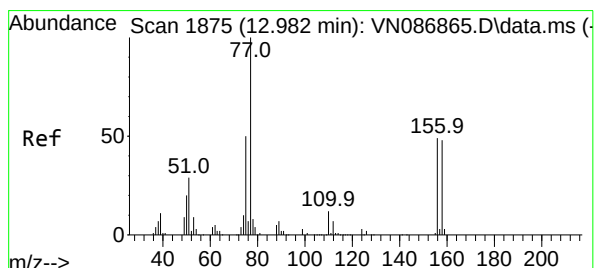
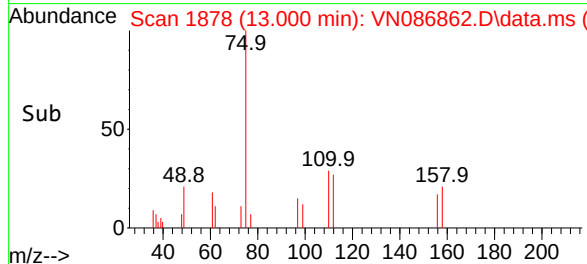
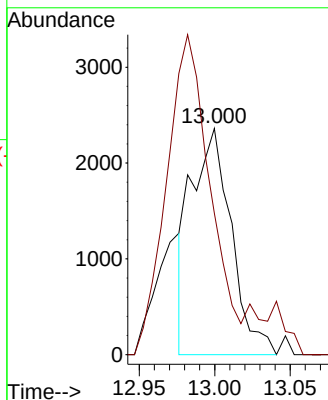
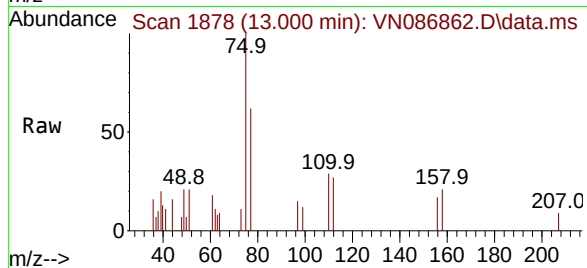
#76
1,2,3-Trichloropropane
Concen: 1.088 ug/l m
RT: 13.000 min Scan# 1878
Delta R.T. 0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC001

Tgt Ion: 75 Resp: 434
Ion Ratio Lower Upper
75 100
77 154.4 79.3 237.9

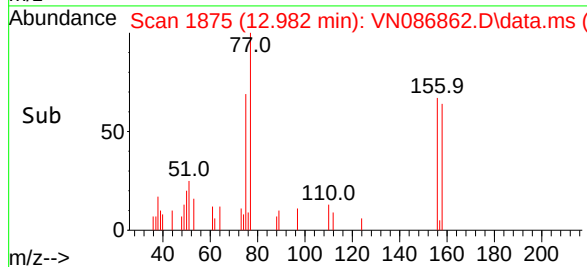
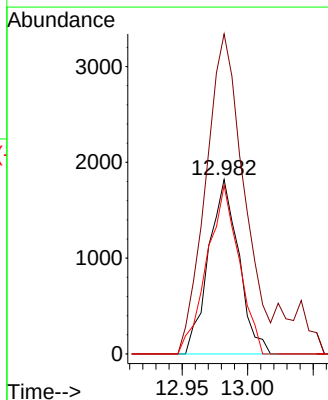
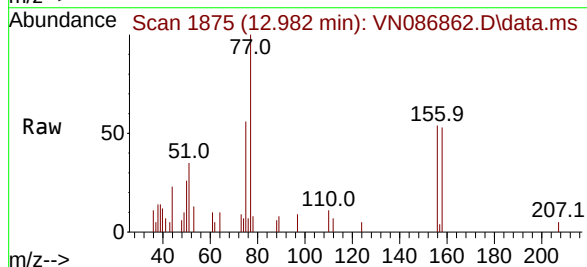
Manual Integrations
APPROVED

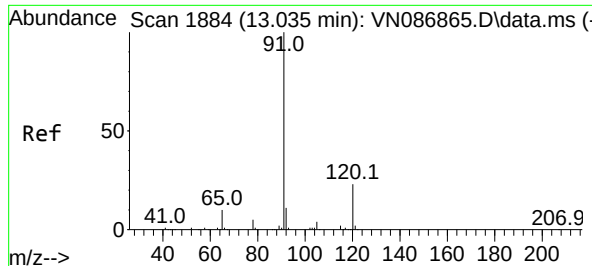
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#77
Bromobenzene
Concen: 1.042 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:156 Resp: 2913
Ion Ratio Lower Upper
156 100
77 230.2 117.7 353.1
158 102.5 48.1 144.4





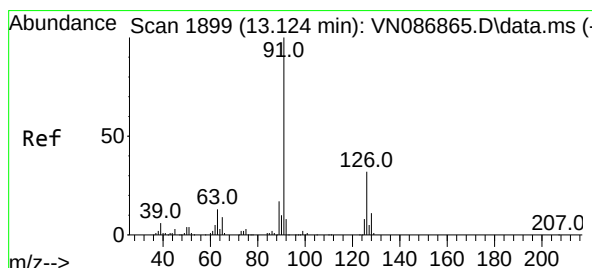
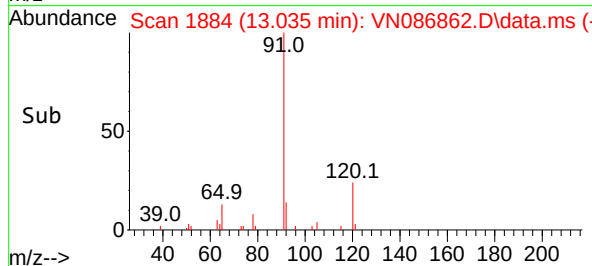
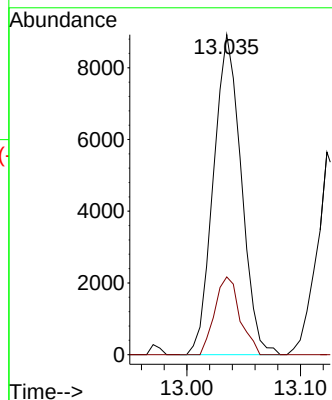
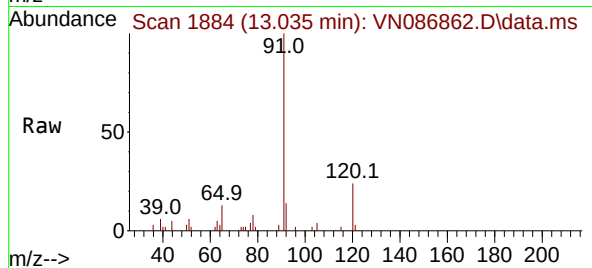
#78
n-propylbenzene
Concen: 1.023 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 1516
Ion Ratio Lower Upper
91 100
120 21.9 11.4 34.2

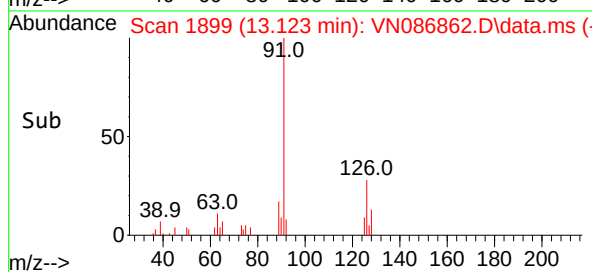
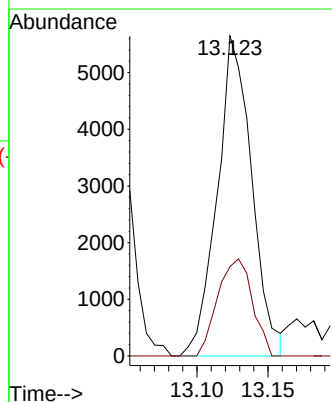
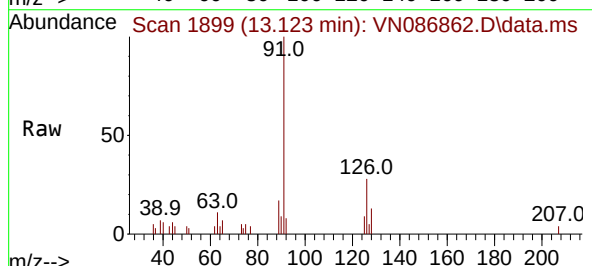
Manual Integrations
APPROVED

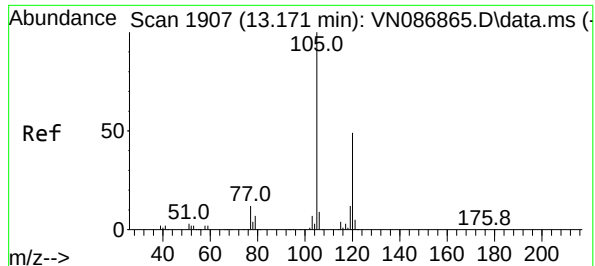
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#79
2-Chlorotoluene
Concen: 1.074 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion: 91 Resp: 9550
Ion Ratio Lower Upper
91 100
126 30.4 16.2 48.5





#80

1,3,5-Trimethylbenzene

Concen: 0.999 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 1005

Ion Ratio Lower Upper

105 100

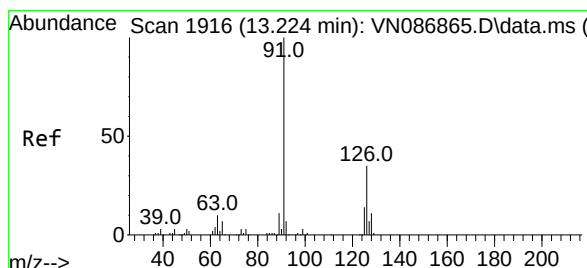
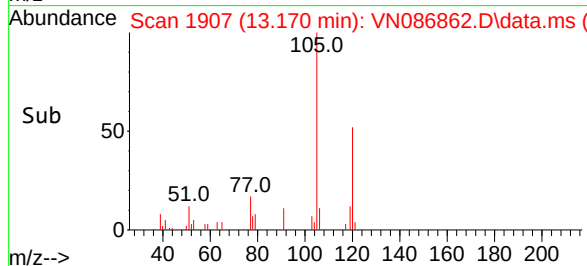
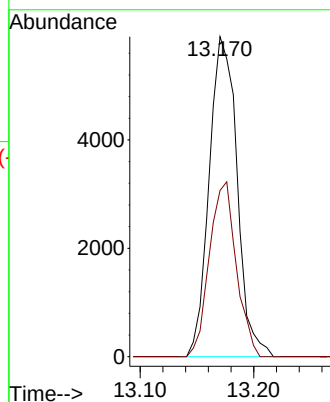
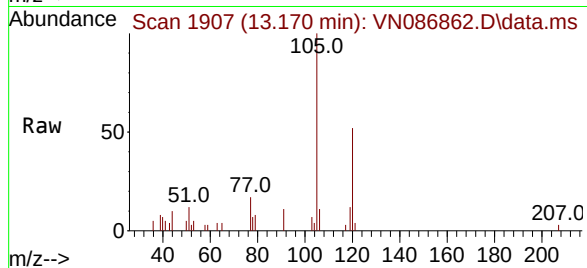
120 52.7 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#82

4-Chlorotoluene

Concen: 1.079 ug/l

RT: 13.223 min Scan# 1916

Delta R.T. -0.000 min

Lab File: VN086862.D

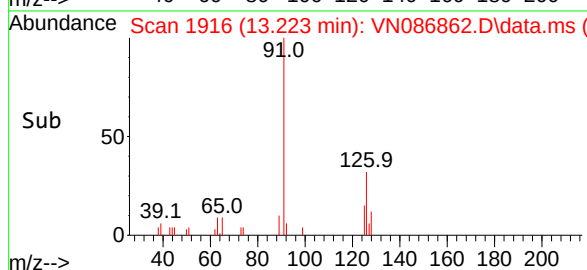
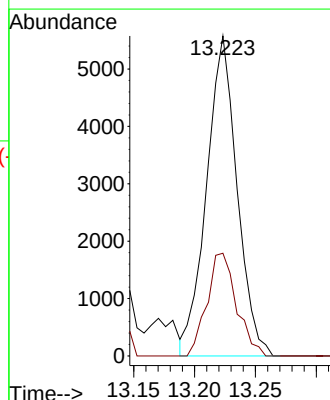
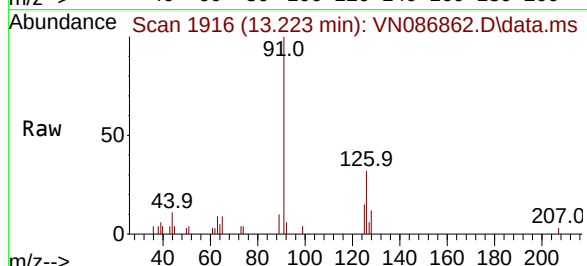
Acq: 06 Jun 2025 12:44

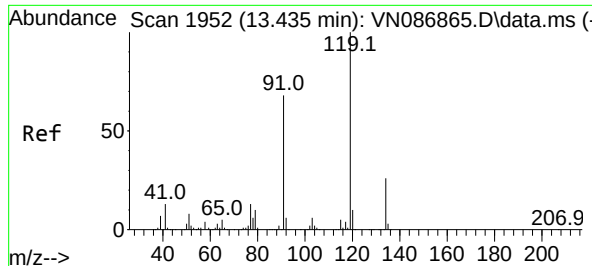
Tgt Ion: 91 Resp: 9706

Ion Ratio Lower Upper

91 100

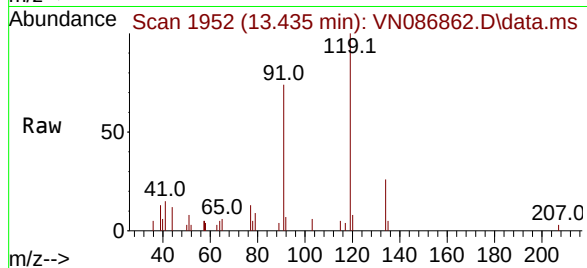
126 31.1 16.7 50.1





#83
tert-Butylbenzene
Concen: 1.069 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

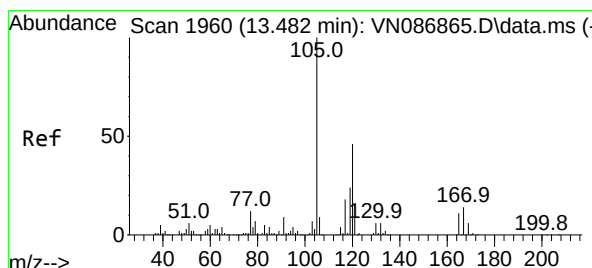
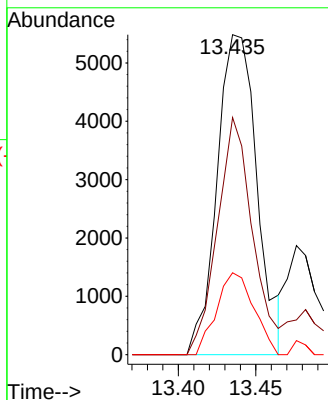
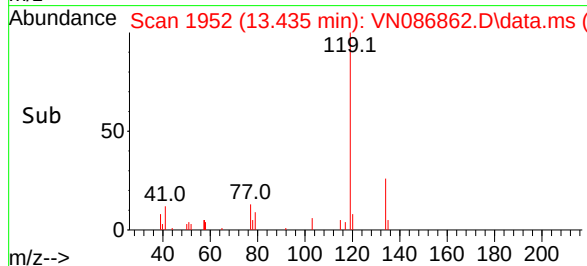
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001



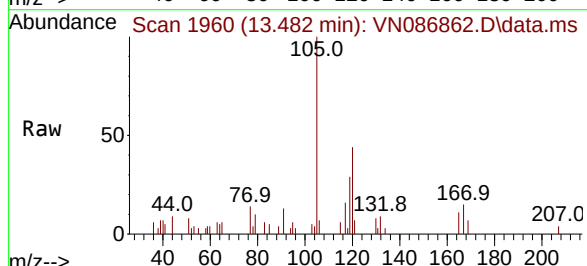
Tgt Ion:119 Resp: 9849
Ion Ratio Lower Upper
119 100
91 65.3 32.1 96.5
134 23.9 13.4 40.1

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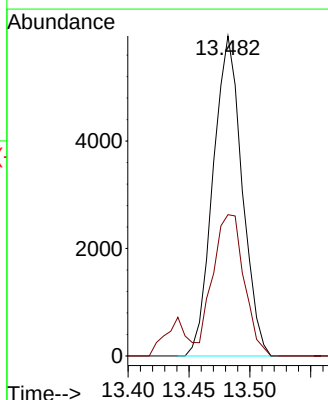
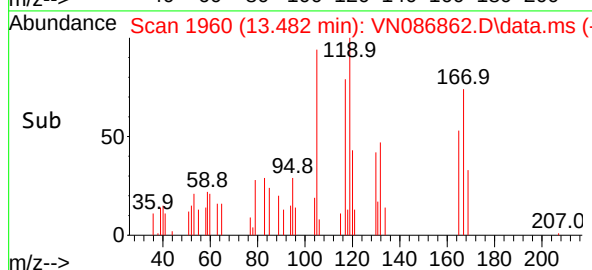
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

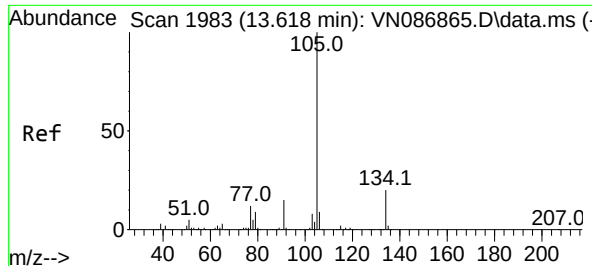


#84
1,2,4-Trimethylbenzene
Concen: 0.979 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44



Tgt Ion:105 Resp: 9882
Ion Ratio Lower Upper
105 100
120 47.2 23.2 69.6





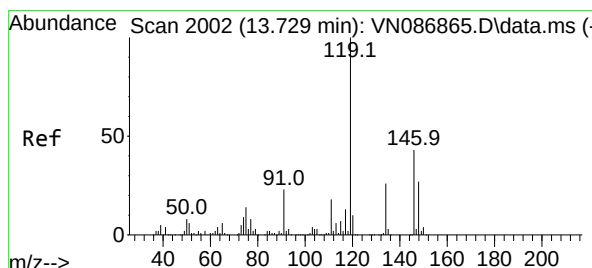
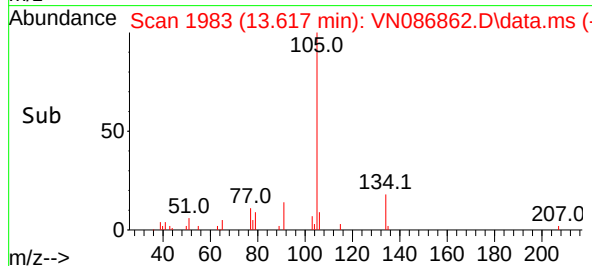
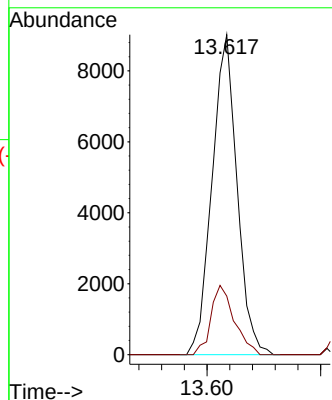
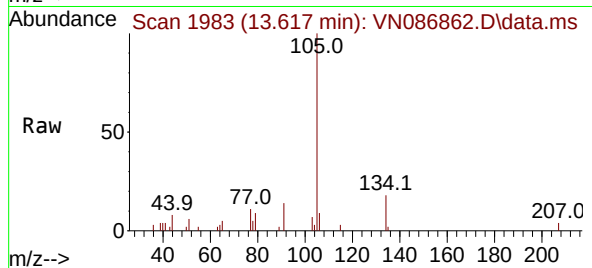
#85
sec-Butylbenzene
Concen: 1.029 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:105 Resp: 13775
Ion Ratio Lower Upper
105 100
134 20.2 10.0 30.0

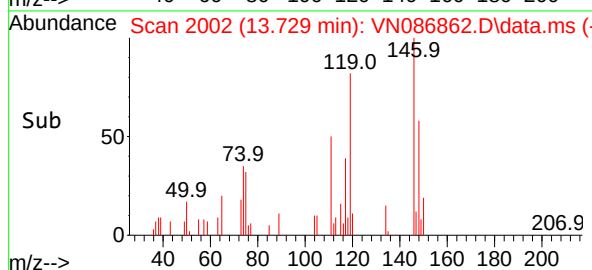
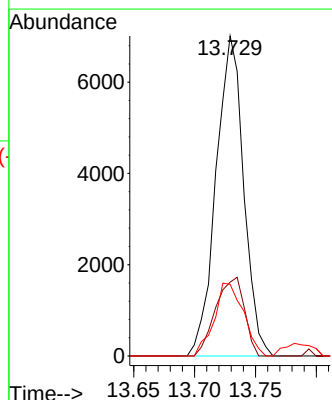
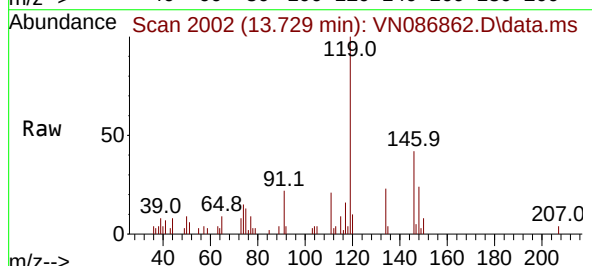
Manual Integrations
APPROVED

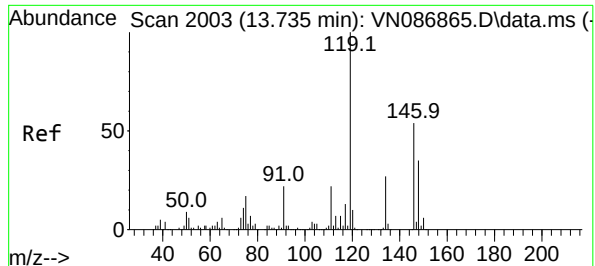
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#86
p-Isopropyltoluene
Concen: 1.000 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:119 Resp: 11065
Ion Ratio Lower Upper
119 100
134 25.4 13.5 40.4
91 24.1 11.5 34.4





#87

1,3-Dichlorobenzene

Concen: 1.073 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

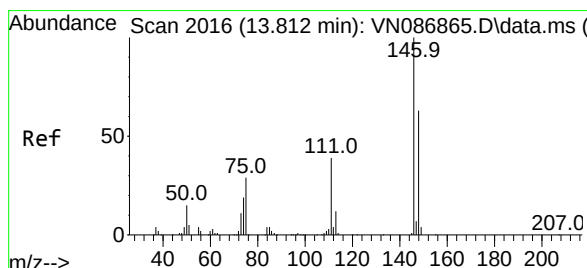
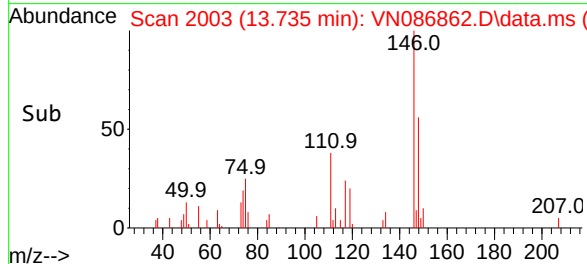
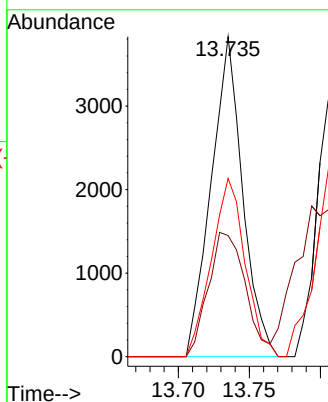
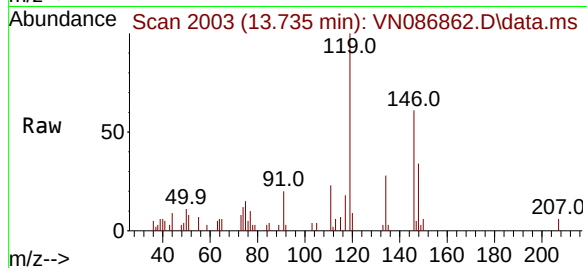
Tgt Ion:	146	Resp:	590
Ion	Ratio	Lower	Upper
146	100		
111	45.8	20.9	62.8
148	59.7	32.0	96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 1.086 ug/l m

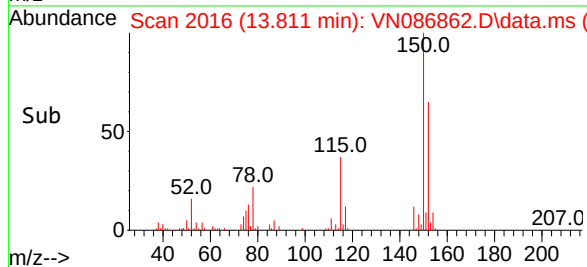
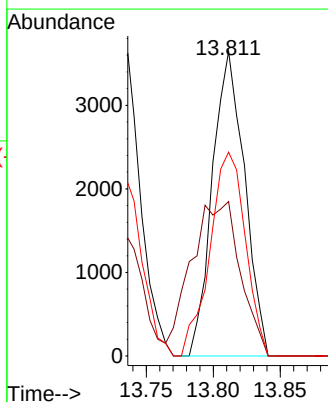
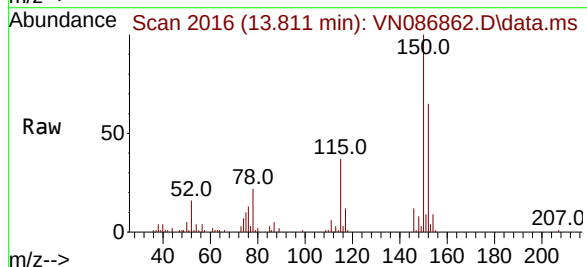
RT: 13.811 min Scan# 2016

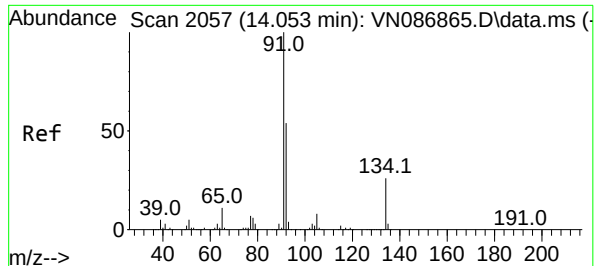
Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Tgt Ion:	146	Resp:	6094
Ion	Ratio	Lower	Upper
146	100		
111	44.4	19.9	59.7
148	57.8	31.8	95.4





#89

n-Butylbenzene

Concen: 1.085 ug/l

RT: 14.058 min Scan# 2057

Delta R.T. 0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

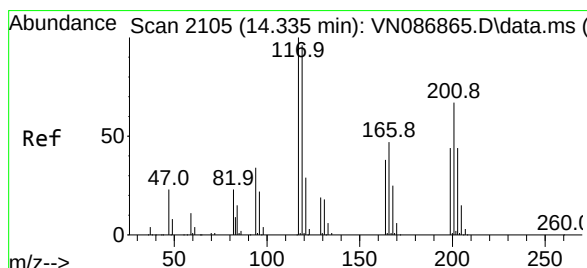
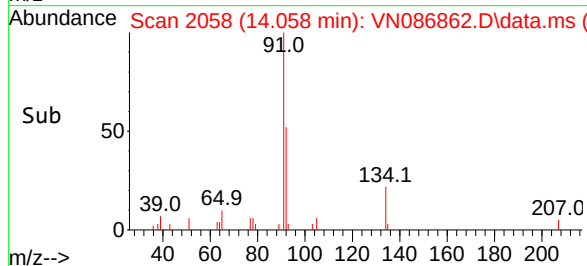
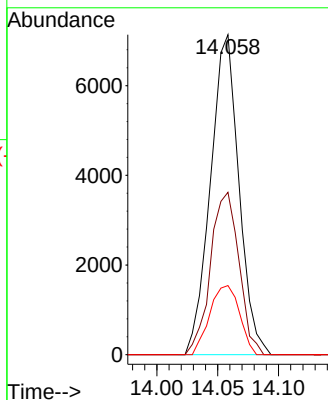
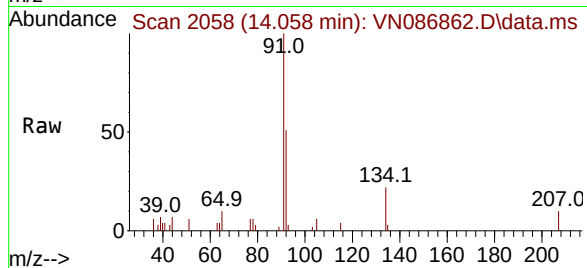
VSTDIC001

Tgt Ion:	91	Resp:	1162
Ion	Ratio	Lower	Upper
91	100		
92	50.8	27.5	82.4
134	22.6	13.0	39.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 1.036 ug/l

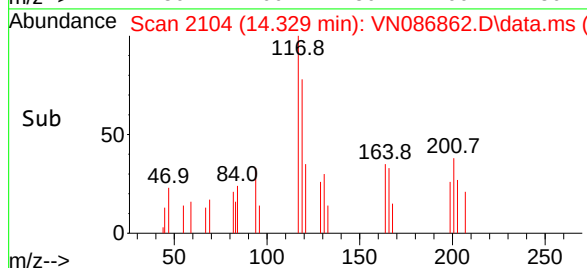
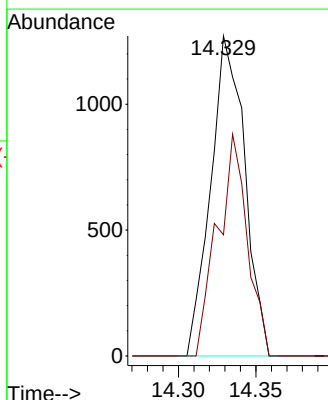
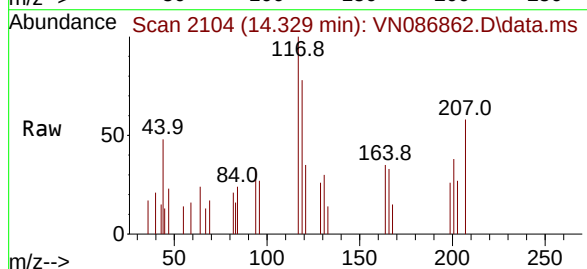
RT: 14.329 min Scan# 2104

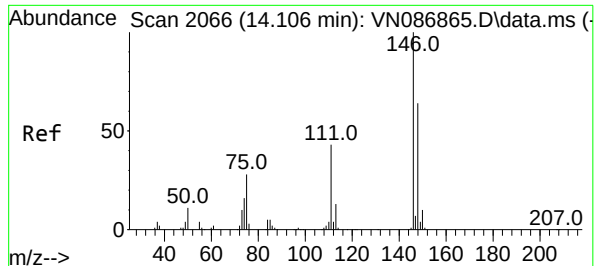
Delta R.T. -0.006 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Tgt Ion:	117	Resp:	1942
Ion	Ratio	Lower	Upper
117	100		
201	60.6	33.2	99.6





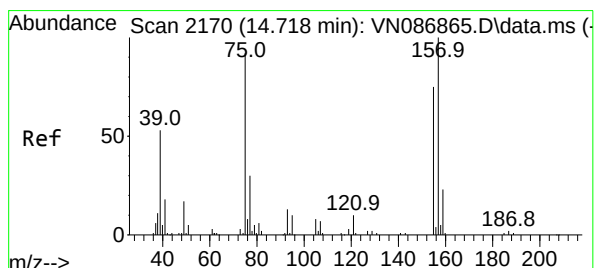
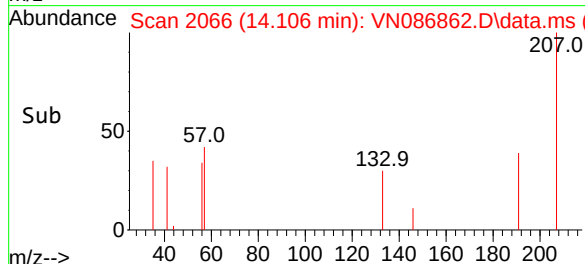
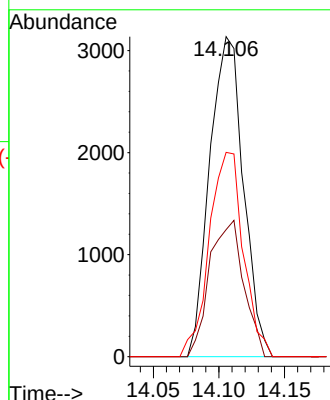
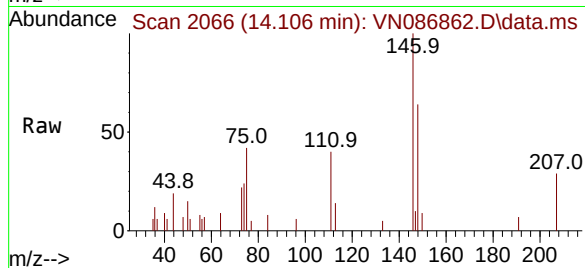
#91
1,2-Dichlorobenzene
Concen: 1.061 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:	146	Resp:	560
Ion Ratio	Lower	Upper	
146	100		
111	43.1	21.6	64.6
148	64.7	31.7	95.1

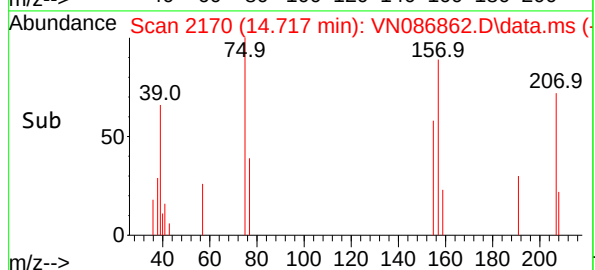
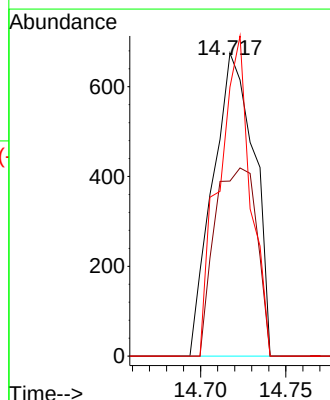
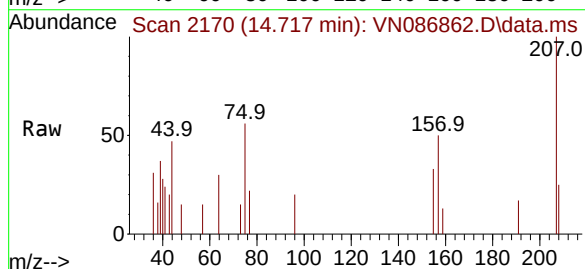
Manual Integrations
APPROVED

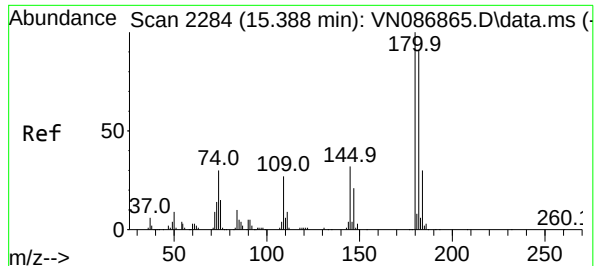
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.150 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:	75	Resp:	1136
Ion Ratio	Lower	Upper	
75	100		
155	63.6	41.1	123.4
157	81.0	52.7	158.1





#93

1,2,4-Trichlorobenzene

Concen: 1.034 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC001

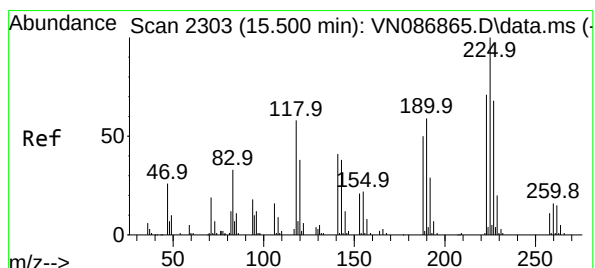
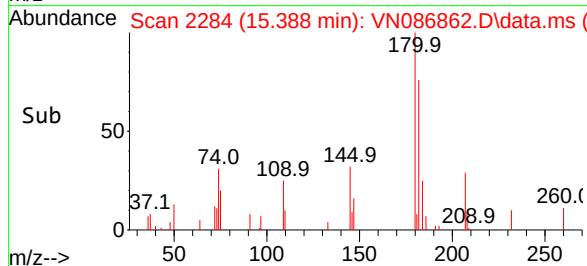
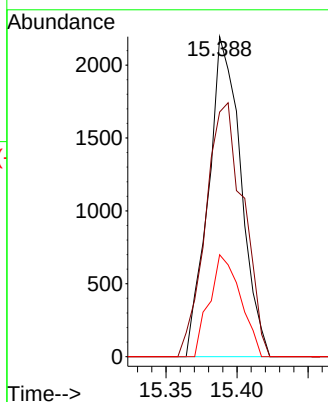
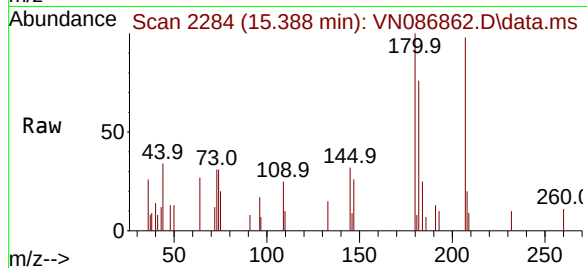
Tgt Ion:	180	Resp:	348
Ion Ratio	Lower	Upper	
180	100		
182	92.1	46.9	140.7
145	30.4	16.0	47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#94

Hexachlorobutadiene

Concen: 0.969 ug/l

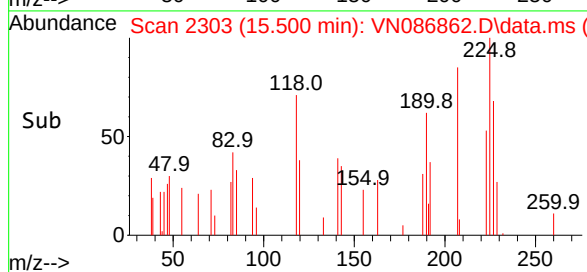
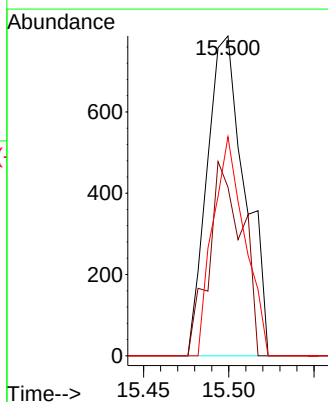
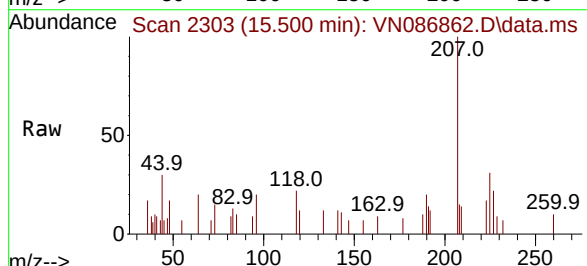
RT: 15.500 min Scan# 2303

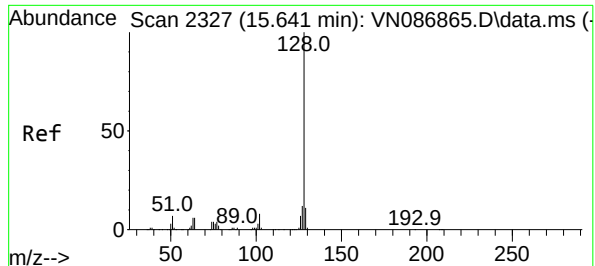
Delta R.T. -0.000 min

Lab File: VN086862.D

Acq: 06 Jun 2025 12:44

Tgt Ion:	225	Resp:	1219
Ion Ratio	Lower	Upper	
225	100		
223	53.6	33.5	100.4
227	57.5	31.1	93.5





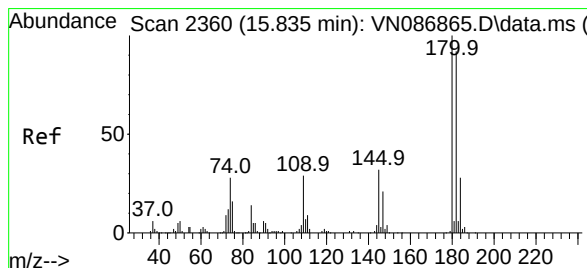
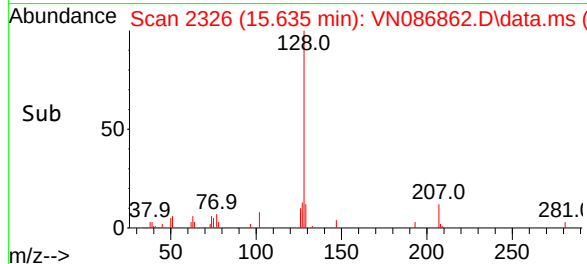
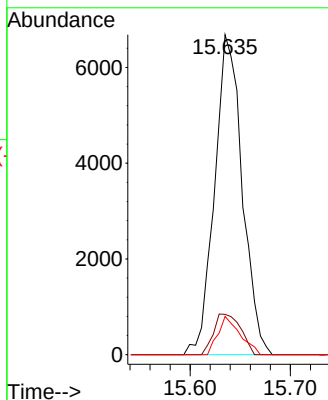
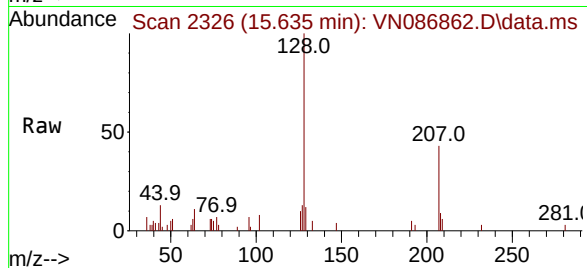
#95
Naphthalene
Concen: 1.018 ug/l
RT: 15.635 min Scan# 2327
Delta R.T. -0.006 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 12789
Ion Ratio Lower Upper
128 100
127 12.4 10.2 15.2
129 9.5 8.8 13.2

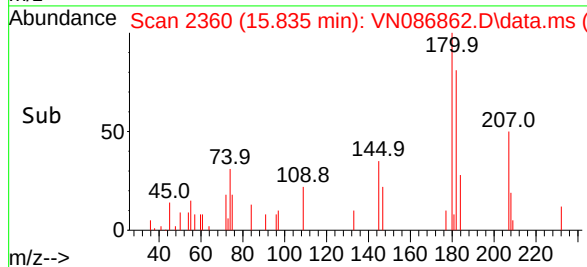
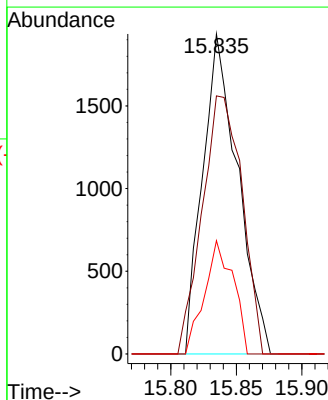
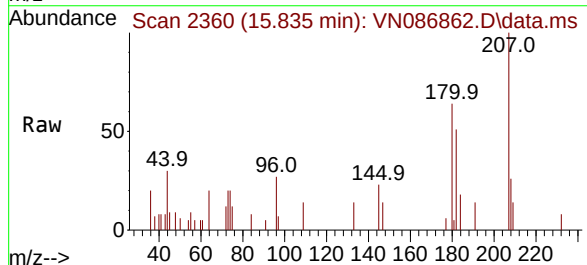
Manual Integrations
APPROVED

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



#96
1,2,3-Trichlorobenzene
Concen: 1.072 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086862.D
Acq: 06 Jun 2025 12:44

Tgt Ion:180 Resp: 3594
Ion Ratio Lower Upper
180 100
182 91.6 47.0 141.0
145 29.0 16.6 49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086863.D
 Acq On : 06 Jun 2025 13:17
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Jun 07 01:55:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	229701	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	423980	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	371851	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	181065	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.588	65	16818	5.468	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	10.940%#
35) Dibromofluoromethane	8.177	113	12867	5.121	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	10.240%#
50) Toluene-d8	10.571	98	52794	5.308	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	10.620%#
62) 4-Bromofluorobenzene	12.847	95	18697	5.059	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	10.120%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.154	85	10196	4.452	ug/l	93
3) Chloromethane	2.395	50	15025	5.080	ug/l	98
4) Vinyl Chloride	2.554	62	15384	5.043	ug/l	97
5) Bromomethane	2.989	94	8606	5.041	ug/l	97
6) Chloroethane	3.154	64	10190	5.171	ug/l	96
7) Trichlorofluoromethane	3.518	101	20740	5.203	ug/l	99
8) Diethyl Ether	3.971	74	9121	5.252	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.401	101	13034	5.205	ug/l	97
10) Methyl Iodide	4.606	142	16530	5.092	ug/l	98
11) Tert butyl alcohol	5.542	59	22000	26.363	ug/l	99
12) 1,1-Dichloroethene	4.359	96	13610	5.323	ug/l	94
13) Acrolein	4.195	56	8401	31.804	ug/l	99
14) Allyl chloride	5.042	41	20925	4.935	ug/l	99
15) Acrylonitrile	5.736	53	49826	25.545	ug/l	99
16) Acetone	4.448	43	41981	25.741	ug/l	99
17) Carbon Disulfide	4.736	76	37246	5.267	ug/l	97
18) Methyl Acetate	5.048	43	24096	5.070	ug/l	97
19) Methyl tert-butyl Ether	5.812	73	46823	5.058	ug/l	95
20) Methylene Chloride	5.300	84	15809	5.178	ug/l	96
21) trans-1,2-Dichloroethene	5.806	96	15480	5.442	ug/l #	81
22) Diisopropyl ether	6.689	45	46396	5.191	ug/l	99
23) Vinyl Acetate	6.618	43	194334	25.735	ug/l	100
24) 1,1-Dichloroethane	6.583	63	26473	5.147	ug/l	99
25) 2-Butanone	7.494	43	68629	25.888	ug/l	99
26) 2,2-Dichloropropane	7.500	77	18288	4.571	ug/l	100
27) cis-1,2-Dichloroethene	7.500	96	17594	5.172	ug/l	98
28) Bromochloromethane	7.830	49	12958	5.124	ug/l #	97
29) Tetrahydrofuran	7.853	42	44749	25.912	ug/l	98
30) Chloroform	7.977	83	26450	5.149	ug/l	95
31) Cyclohexane	8.271	56	29938	6.002	ug/l	95
32) 1,1,1-Trichloroethane	8.177	97	22857	5.232	ug/l #	50
36) 1,1-Dichloropropene	8.377	75	19410	5.184	ug/l	98
37) Ethyl Acetate	7.571	43	26073	5.470	ug/l	97
38) Carbon Tetrachloride	8.371	117	19056	5.184	ug/l	99
39) Methylcyclohexane	9.606	83	27353	5.333	ug/l	95
40) Benzene	8.612	78	63646	5.199	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086863.D
 Acq On : 06 Jun 2025 13:17
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:55:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M

Quant Title : SW846 8260

QLast Update : Sat Jun 07 01:51:02 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.783	41	13518	5.050	ug/l	99
42) 1,2-Dichloroethane	8.683	62	19329	5.205	ug/l	98
43) Isopropyl Acetate	8.700	43	40268	5.264	ug/l	98
44) Trichloroethene	9.359	130	15245	5.251	ug/l	96
45) 1,2-Dichloropropane	9.624	63	15632	5.248	ug/l	99
46) Dibromomethane	9.718	93	10241	5.176	ug/l	99
47) Bromodichloromethane	9.888	83	20512	5.039	ug/l	97
48) Methyl methacrylate	9.688	41	17591	4.996	ug/l	94
49) 1,4-Dioxane	9.700	88	6141	95.874	ug/l #	93
51) 4-Methyl-2-Pentanone	10.447	43	116434	25.283	ug/l	97
52) Toluene	10.630	92	38744	5.178	ug/l	99
53) t-1,3-Dichloropropene	10.841	75	22285	4.896	ug/l	98
54) cis-1,3-Dichloropropene	10.318	75	24477	5.026	ug/l	93
55) 1,1,2-Trichloroethane	11.018	97	15068	5.234	ug/l	97
56) Ethyl methacrylate	10.888	69	21893	4.774	ug/l	95
57) 1,3-Dichloropropane	11.165	76	25452	5.096	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.165	63	64722	23.664	ug/l	98
59) 2-Hexanone	11.212	43	59884	20.188	ug/l	99
60) Dibromochloromethane	11.359	129	14884	4.962	ug/l	98
61) 1,2-Dibromoethane	11.471	107	15172	5.141	ug/l	99
64) Tetrachloroethene	11.106	164	12322	5.236	ug/l	92
65) Chlorobenzene	11.894	112	42195	5.145	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.965	131	13897	5.271	ug/l	97
67) Ethyl Benzene	11.965	91	73443	5.199	ug/l	97
68) m/p-Xylenes	12.071	106	55859	10.330	ug/l	100
69) o-Xylene	12.400	106	26004	5.021	ug/l	96
70) Styrene	12.412	104	44380	5.008	ug/l	98
71) Bromoform	12.582	173	9890	5.063	ug/l #	96
73) Isopropylbenzene	12.694	105	67878	5.146	ug/l	100
74) N-amyl acetate	12.559	43	20096m	4.590	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.935	83	23516	5.262	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	21527m	4.986	ug/l	
77) Bromobenzene	12.976	156	15485	5.119	ug/l	92
78) n-propylbenzene	13.035	91	83781	5.226	ug/l	99
79) 2-Chlorotoluene	13.124	91	49297	5.128	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	55961	5.139	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.741	75	9234	4.939	ug/l	94
82) 4-Chlorotoluene	13.223	91	49924	5.132	ug/l	100
83) tert-Butylbenzene	13.435	119	50874	5.103	ug/l	98
84) 1,2,4-Trimethylbenzene	13.482	105	56525	5.176	ug/l	100
85) sec-Butylbenzene	13.618	105	74711	5.161	ug/l	99
86) p-Isopropyltoluene	13.729	119	62016	5.182	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	30949	5.200	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	32342	5.330	ug/l	96
89) n-Butylbenzene	14.053	91	59601	5.142	ug/l	99
90) Hexachloroethane	14.335	117	9725	4.794	ug/l	95
91) 1,2-Dichlorobenzene	14.106	146	29897	5.228	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	5731	5.363	ug/l	93
93) 1,2,4-Trichlorobenzene	15.394	180	18778	5.143	ug/l	99
94) Hexachlorobutadiene	15.500	225	7072	5.199	ug/l	99
95) Naphthalene	15.641	128	67481	4.965	ug/l	99
96) 1,2,3-Trichlorobenzene	15.841	180	18262	5.034	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086863.D
Acq On : 06 Jun 2025 13:17
Operator : JC\MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

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

Quant Time: Jun 07 01:55:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

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

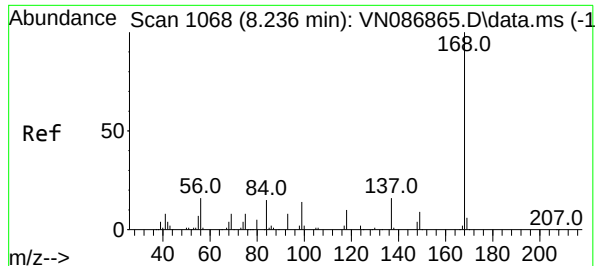
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 06/09/2025
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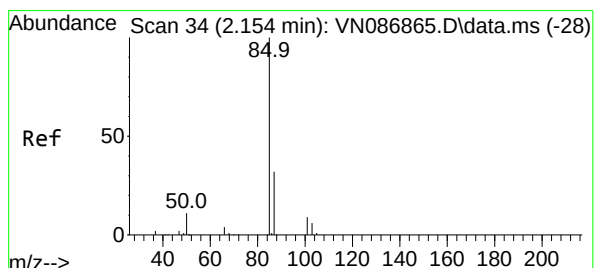
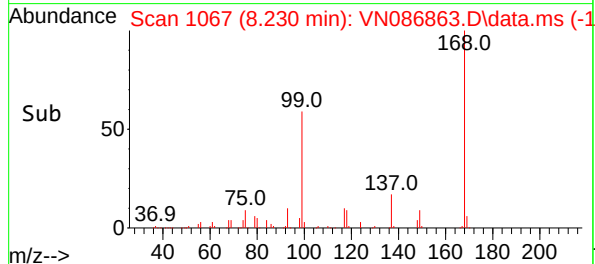
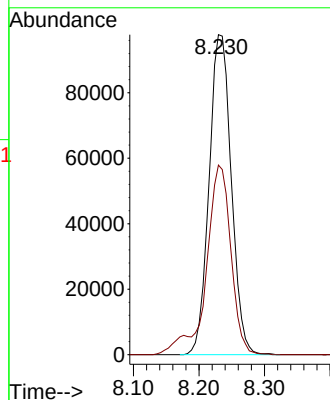
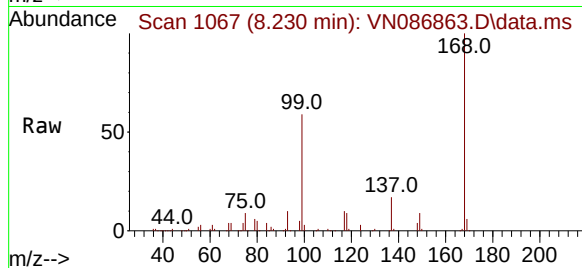
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005

Tgt Ion:168 Resp: 22970
Ion Ratio Lower Upper
168 100
99 59.2 49.1 73.7

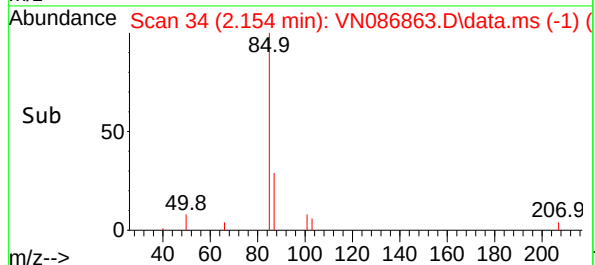
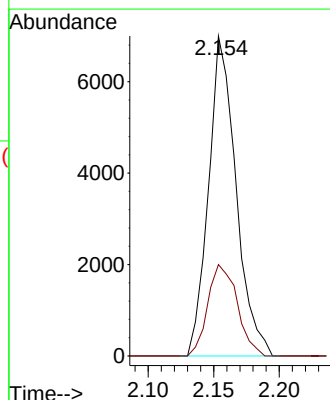
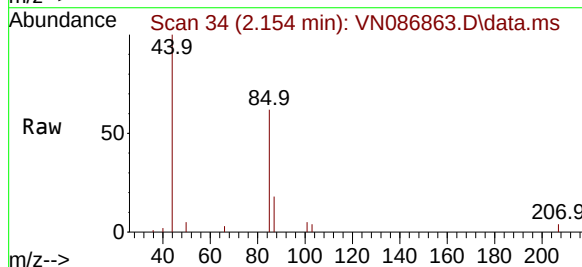
Manual Integrations
APPROVED

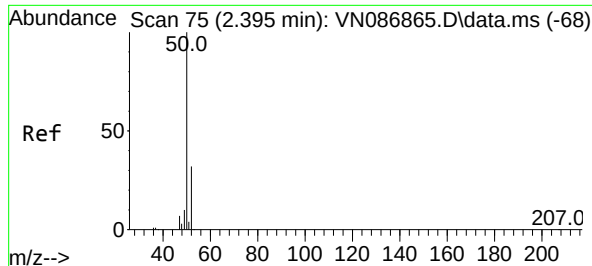
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 4.452 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 85 Resp: 10196
Ion Ratio Lower Upper
85 100
87 28.6 16.2 48.6





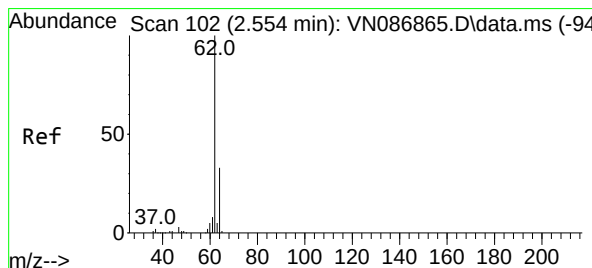
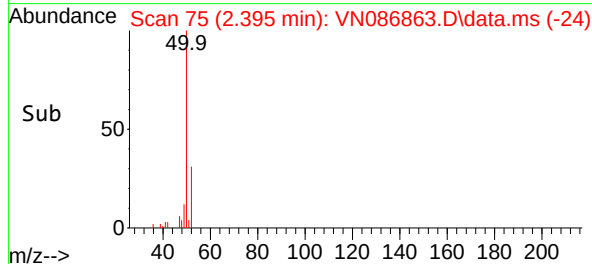
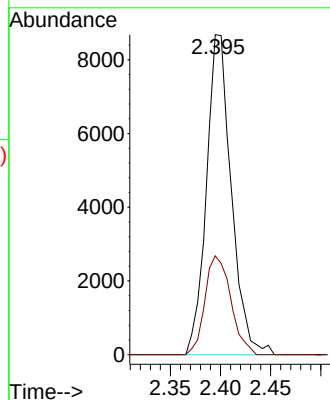
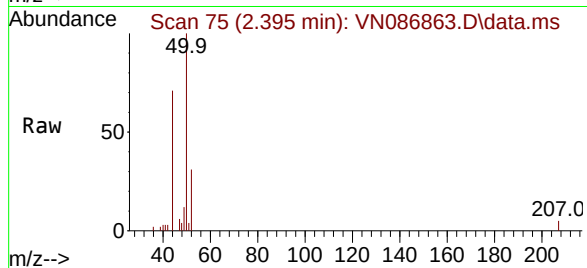
#3
Chloromethane
Concen: 5.080 ug/l
RT: 2.395 min Scan# 75
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 1502
Ion Ratio Lower Upper
50 100
52 30.9 25.7 38.5

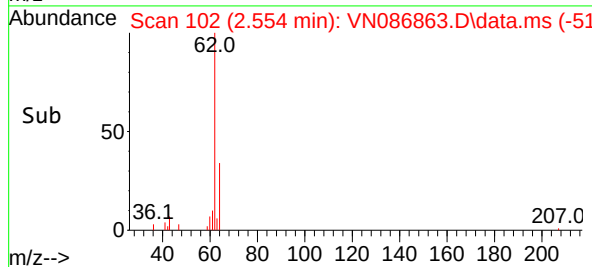
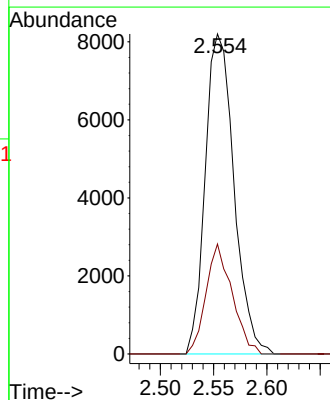
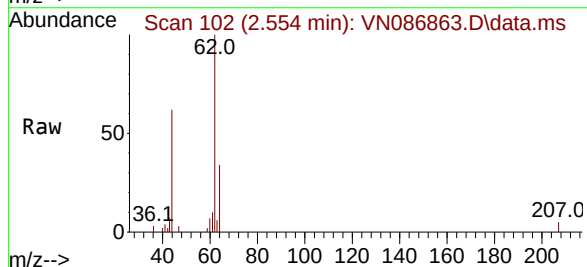
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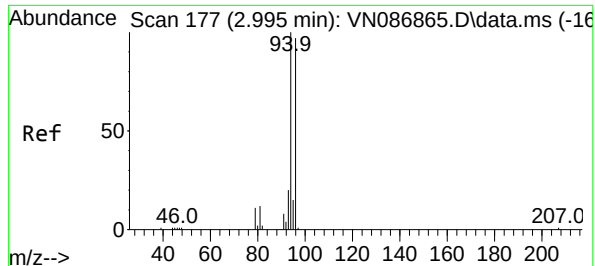
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 5.043 ug/l
RT: 2.554 min Scan# 102
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 62 Resp: 15384
Ion Ratio Lower Upper
62 100
64 34.3 26.0 39.0





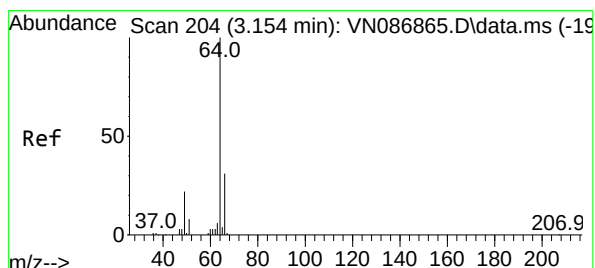
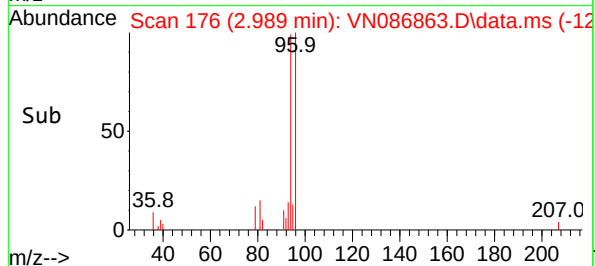
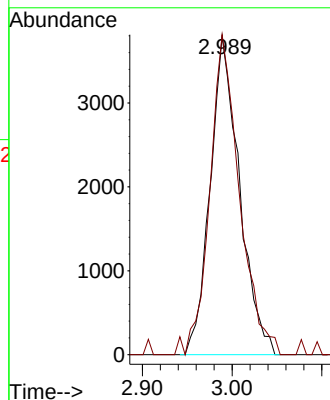
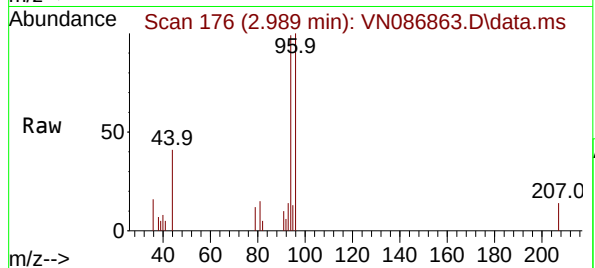
#5
Bromomethane
Concen: 5.041 ug/l
RT: 2.989 min Scan# 176
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 94 Resp: 8600
Ion Ratio Lower Upper
94 100
96 100.6 77.9 116.9

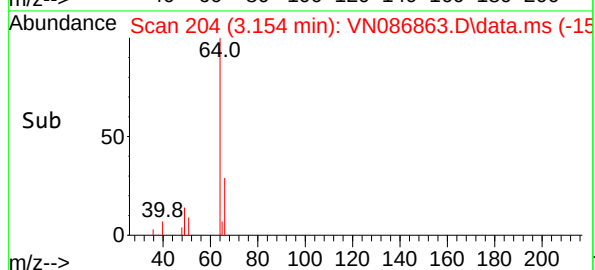
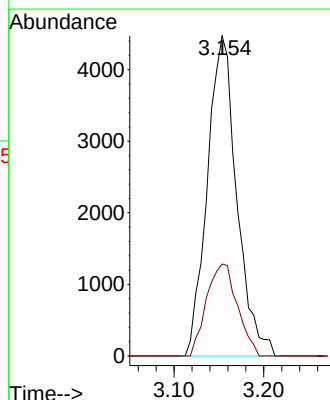
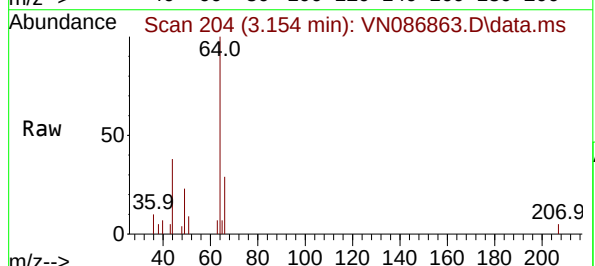
Manual Integrations
APPROVED

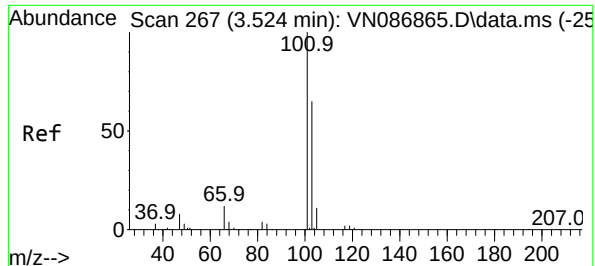
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#6
Chloroethane
Concen: 5.171 ug/l
RT: 3.154 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

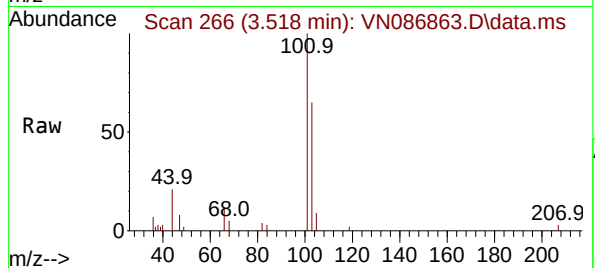
Tgt Ion: 64 Resp: 10190
Ion Ratio Lower Upper
64 100
66 28.8 24.6 36.8





#7
Trichlorofluoromethane
Concen: 5.203 ug/l
RT: 3.518 min Scan# 266
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

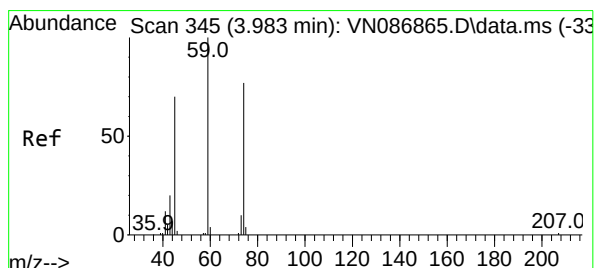
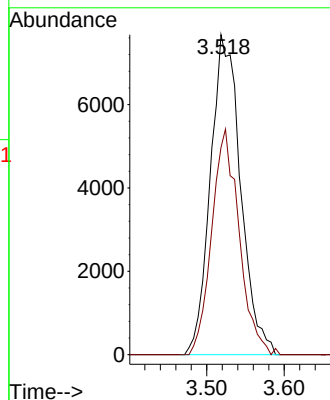
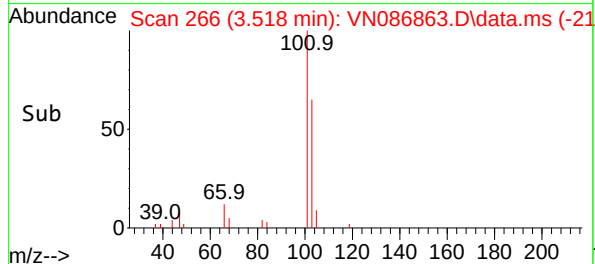
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion:101 Resp: 20740
Ion Ratio Lower Upper
101 100
103 64.8 52.2 78.2

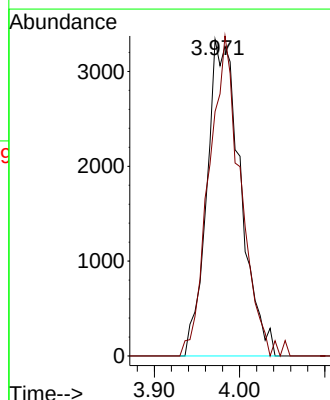
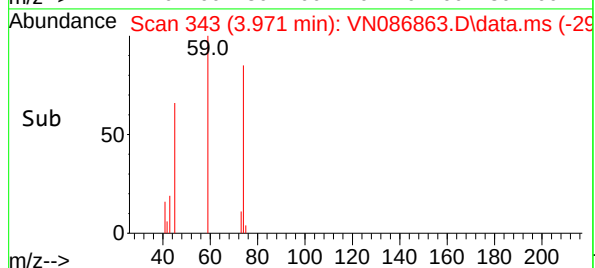
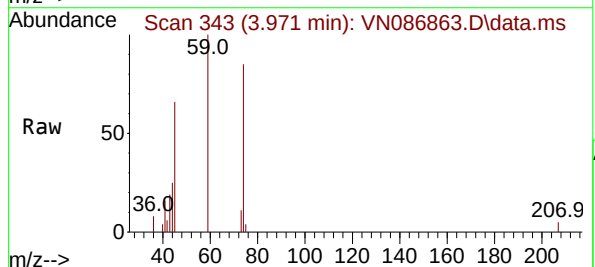
Manual Integrations
APPROVED

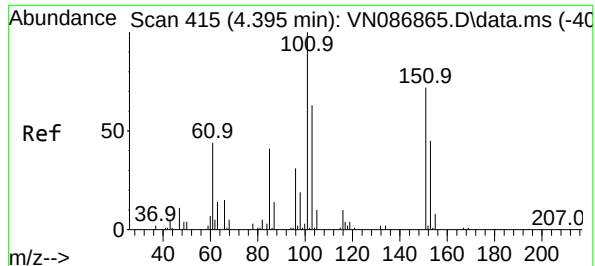
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#8
Diethyl Ether
Concen: 5.252 ug/l
RT: 3.971 min Scan# 343
Delta R.T. -0.012 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 74 Resp: 9121
Ion Ratio Lower Upper
74 100
45 95.8 45.5 136.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.205 ug/l

RT: 4.401 min Scan# 415

Delta R.T. 0.006 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

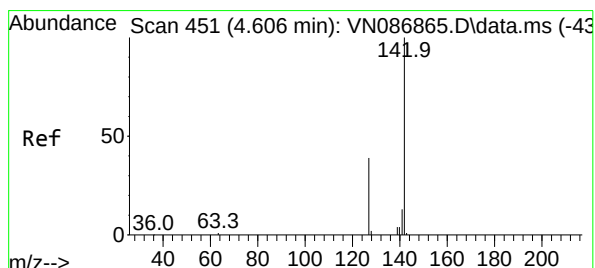
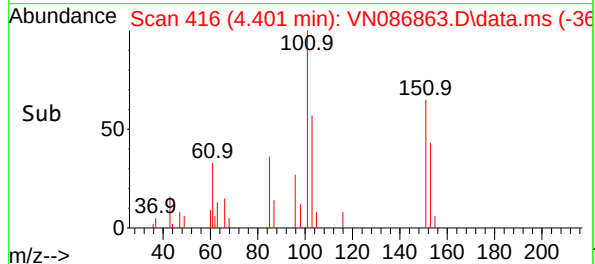
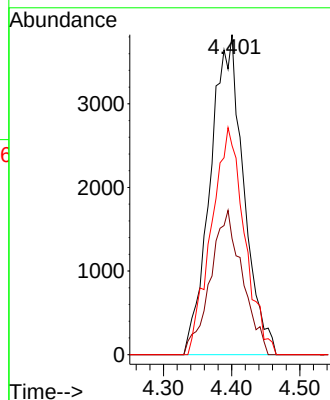
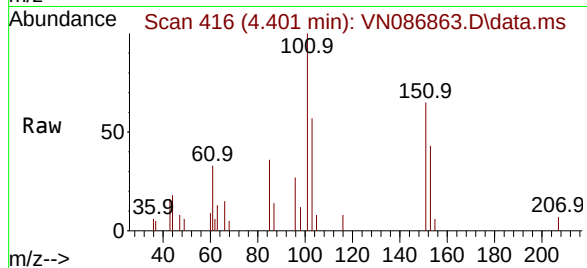
VSTDIC005

Tgt Ion:	101	Resp:	13034
Ion	Ratio	Lower	Upper
101	100		
85	43.3	33.8	50.8
151	70.8	58.7	88.1

Manual Integrations
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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#10

Methyl Iodide

Concen: 5.092 ug/l

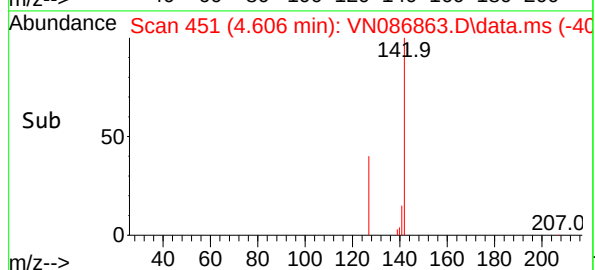
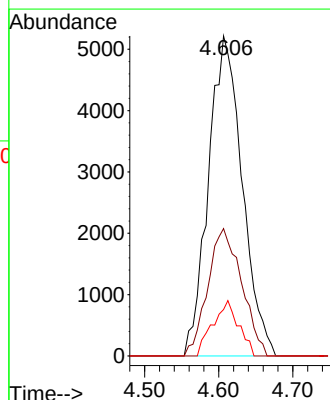
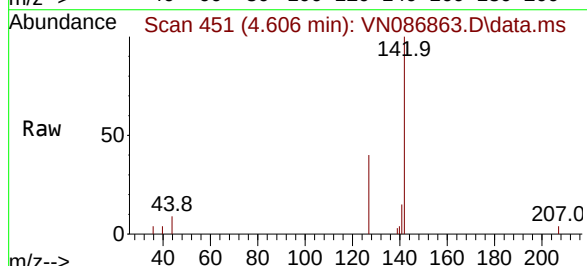
RT: 4.606 min Scan# 451

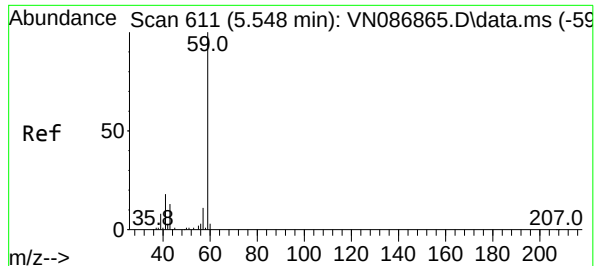
Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Tgt Ion:	142	Resp:	16530
Ion	Ratio	Lower	Upper
142	100		
127	39.8	30.9	46.3
141	14.5	10.4	15.6





#11

Tert butyl alcohol

Concen: 26.363 ug/l

RT: 5.542 min Scan# 611

Delta R.T. -0.006 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 22000

Ion Ratio Lower Upper

59 100

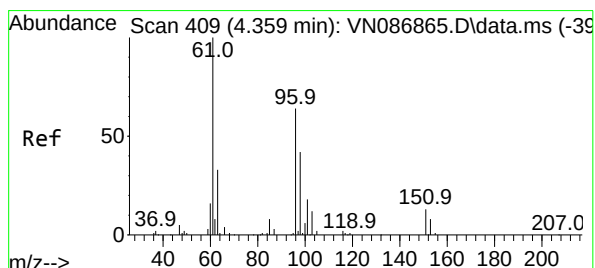
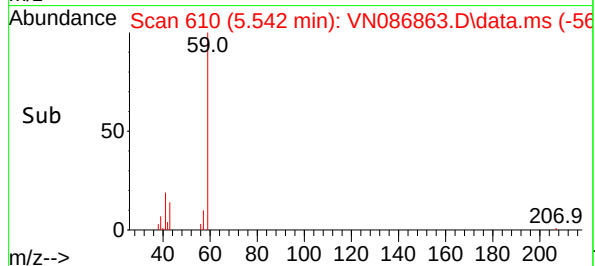
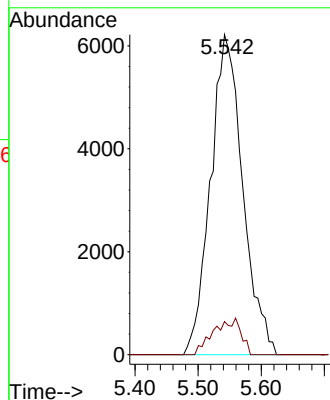
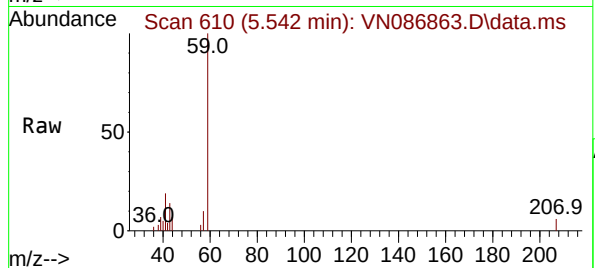
57 9.6 8.1 12.1

Manual Integrations

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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#12

1,1-Dichloroethene

Concen: 5.323 ug/l

RT: 4.359 min Scan# 409

Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

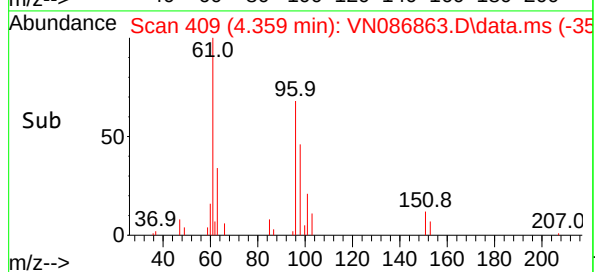
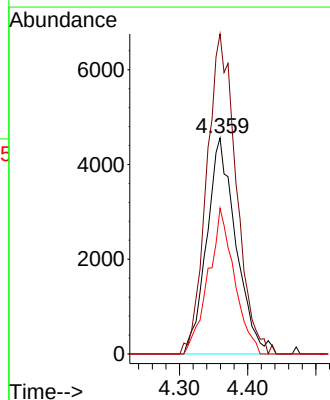
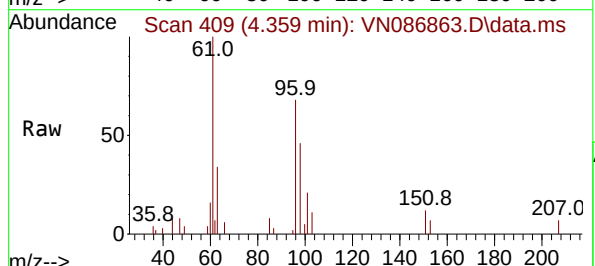
Tgt Ion: 96 Resp: 13610

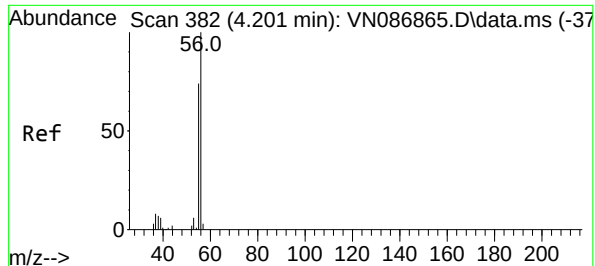
Ion Ratio Lower Upper

96 100

61 148.1 125.8 188.6

98 67.5 52.5 78.7





#13

Acrolein

Concen: 31.804 ug/l

RT: 4.195 min Scan# 381

Delta R.T. -0.006 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 840

Ion Ratio Lower Upper

56 100

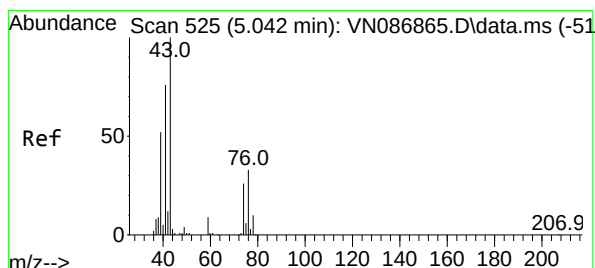
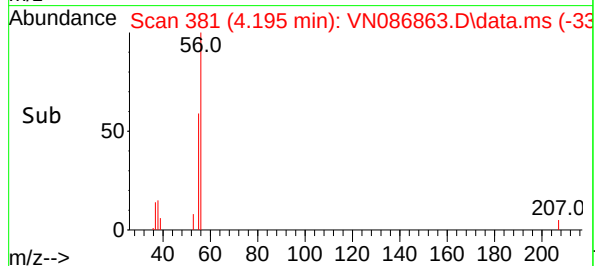
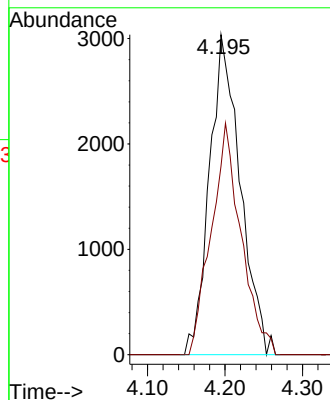
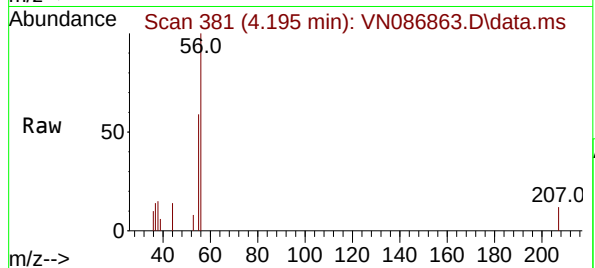
55 70.2 55.6 83.4

Manual Integrations

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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 4.935 ug/l

RT: 5.042 min Scan# 525

Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

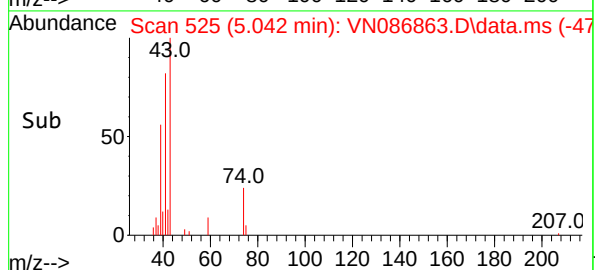
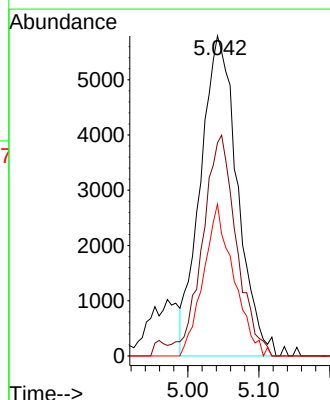
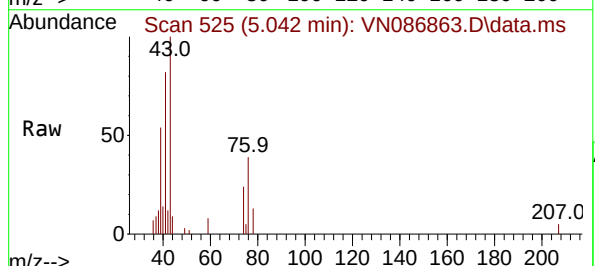
Tgt Ion: 41 Resp: 20925

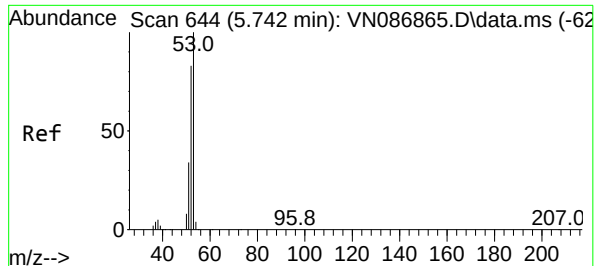
Ion Ratio Lower Upper

41 100

39 63.2 51.3 76.9

76 39.0 31.4 47.0





#15

Acrylonitrile

Concen: 25.545 ug/l

RT: 5.736 min Scan# 644

Delta R.T. -0.006 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

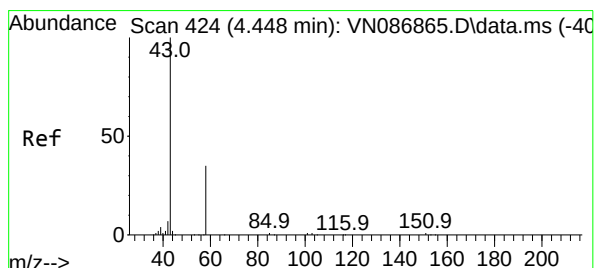
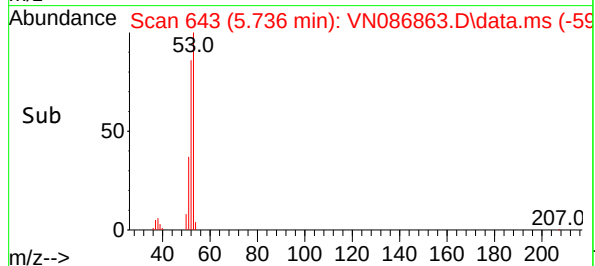
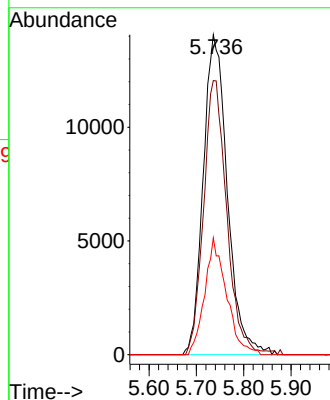
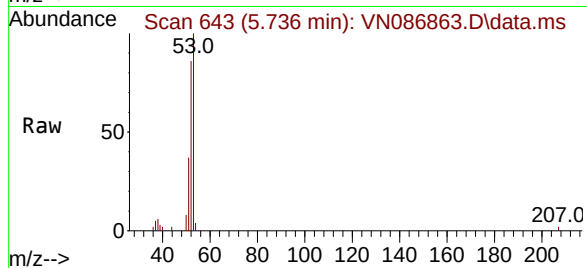
VSTDICC005

Tgt Ion: 53	Resp: 49820
Ion Ratio	Lower Upper
53 100	
52 82.4	65.0 97.6
51 32.9	27.2 40.8

Manual Integrations
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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#16

Acetone

Concen: 25.741 ug/l

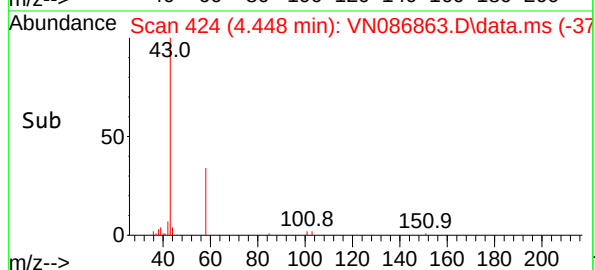
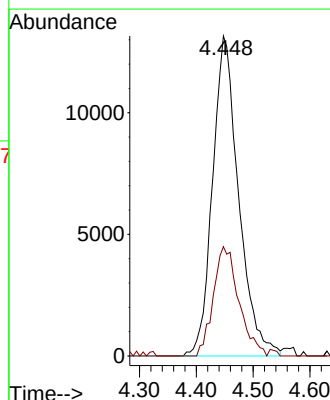
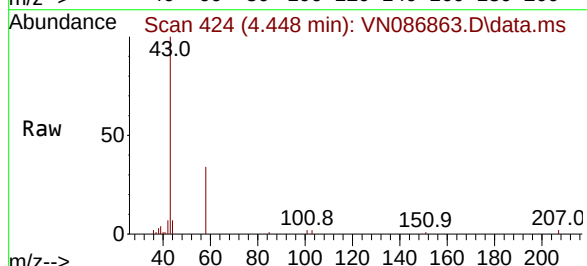
RT: 4.448 min Scan# 424

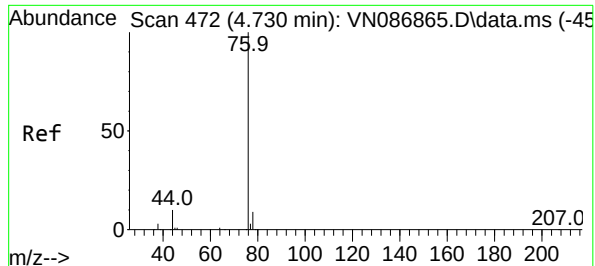
Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Tgt Ion: 43	Resp: 41981
Ion Ratio	Lower Upper
43 100	
58 34.1	28.0 42.0





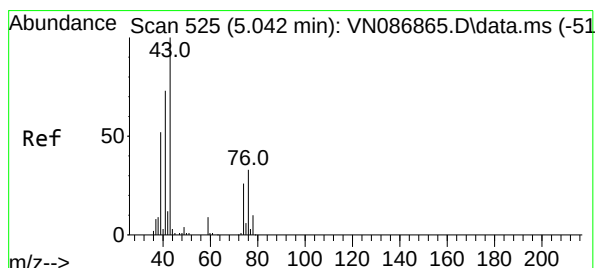
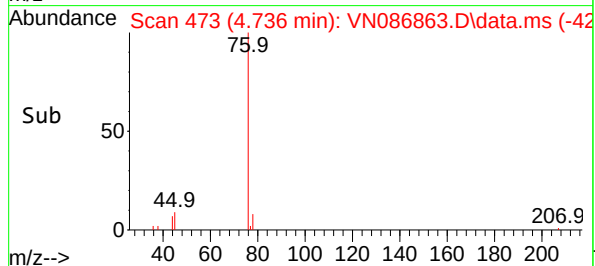
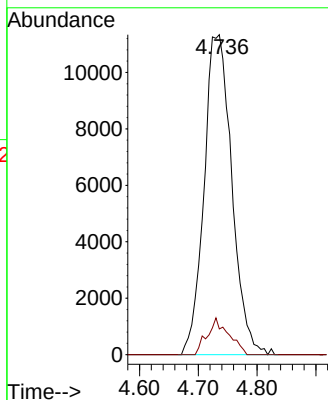
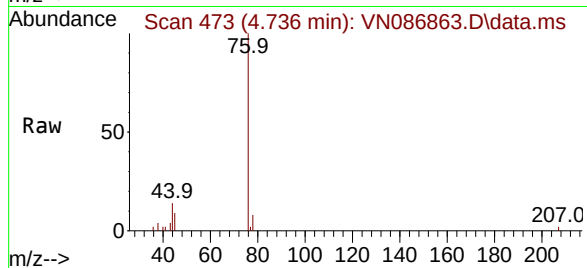
#17
Carbon Disulfide
Concen: 5.267 ug/l
RT: 4.736 min Scan# 473
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 3724
Ion Ratio Lower Upper
76 100
78 8.0 7.3 10.9

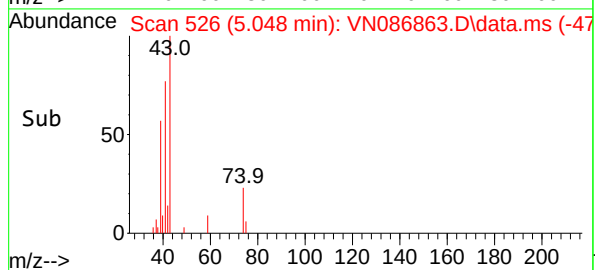
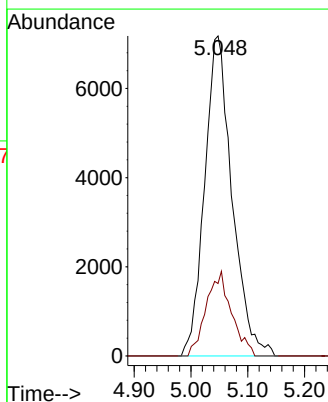
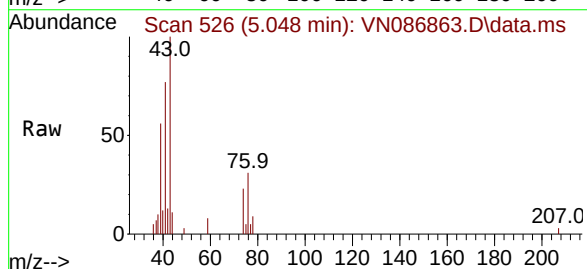
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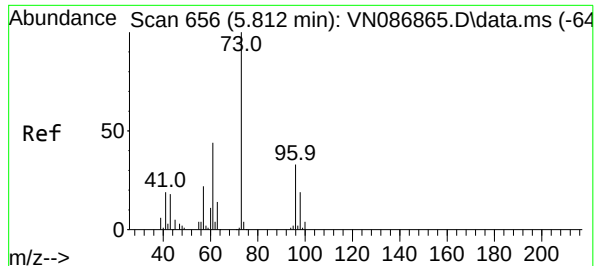
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#18
Methyl Acetate
Concen: 5.070 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 43 Resp: 24096
Ion Ratio Lower Upper
43 100
74 24.4 20.7 31.1





#19

Methyl tert-butyl Ether

Concen: 5.058 ug/l

RT: 5.812 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 4682

Ion Ratio Lower Upper

73 100

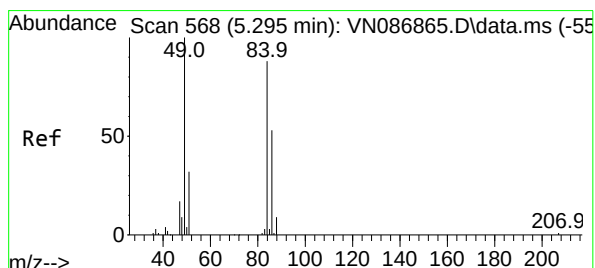
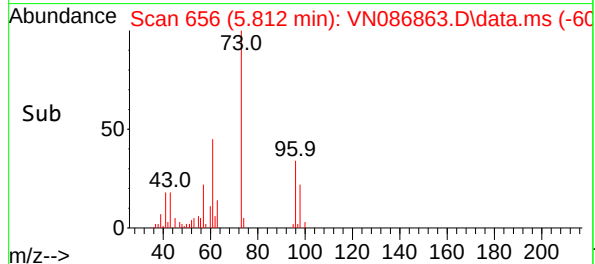
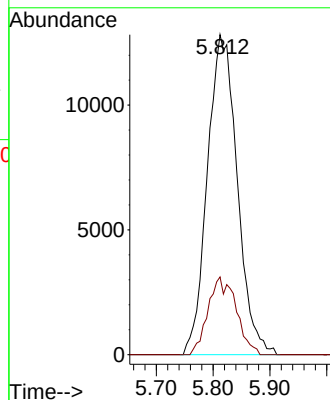
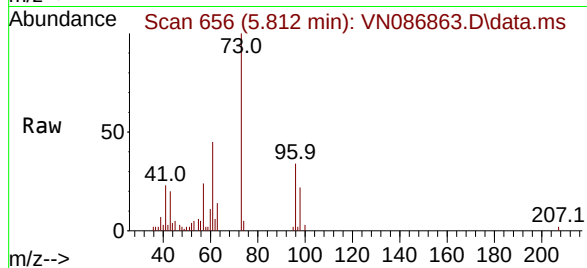
57 24.3 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#20

Methylene Chloride

Concen: 5.178 ug/l

RT: 5.300 min Scan# 569

Delta R.T. 0.006 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Tgt Ion: 84 Resp: 15809

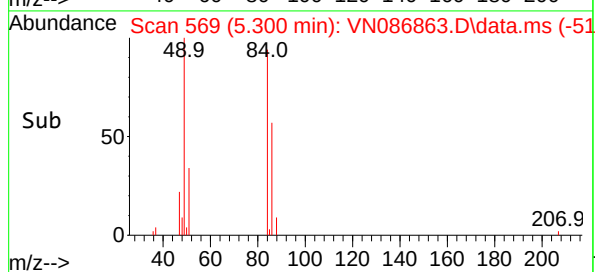
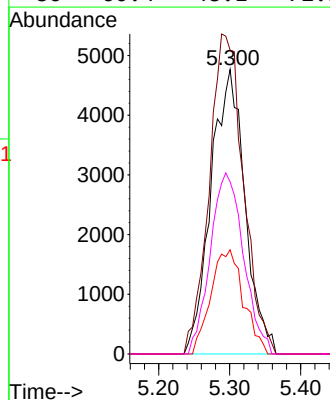
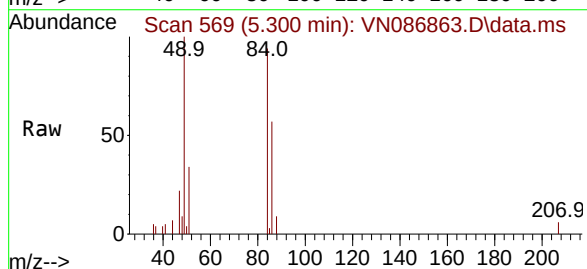
Ion Ratio Lower Upper

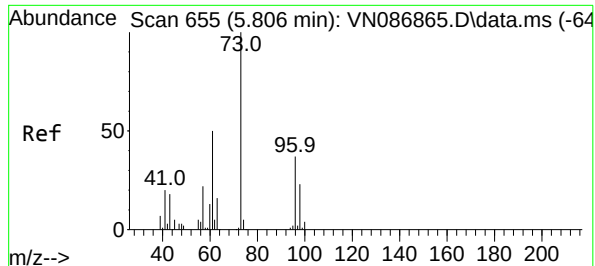
84 100

49 106.8 90.5 135.7

51 36.6 28.5 42.7

86 60.4 48.1 72.1





#21

trans-1,2-Dichloroethene

Concen: 5.442 ug/l

RT: 5.806 min Scan# 655

Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 15480

Ion Ratio Lower Upper

96 100

61 105.6 109.2 163.8

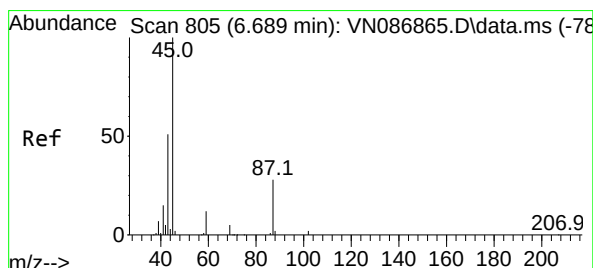
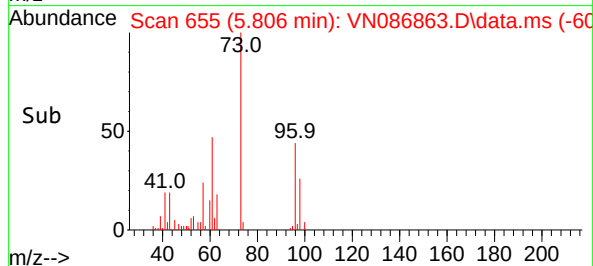
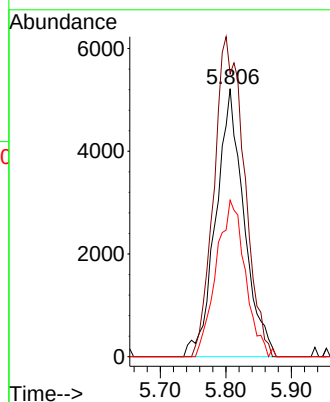
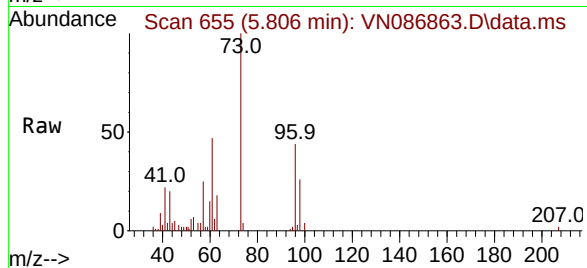
98 58.4 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#22

Diisopropyl ether

Concen: 5.191 ug/l

RT: 6.689 min Scan# 805

Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Tgt Ion: 45 Resp: 46396

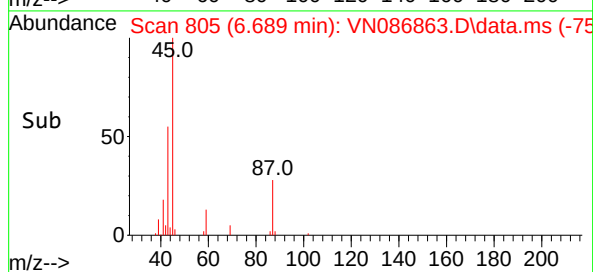
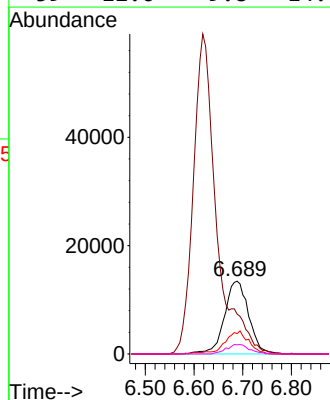
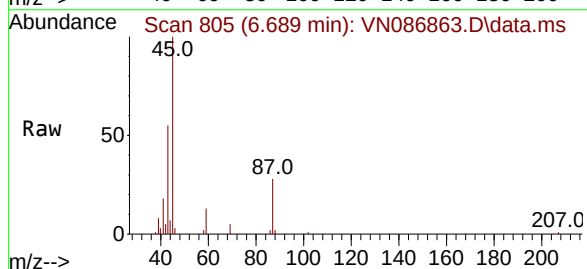
Ion Ratio Lower Upper

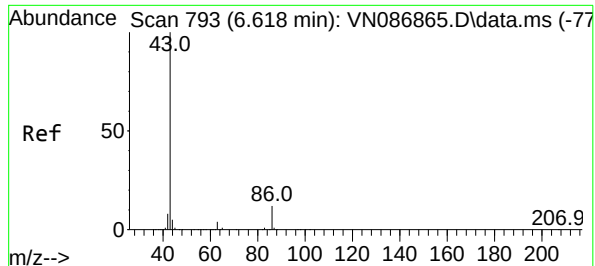
45 100

43 53.2 41.9 62.9

87 27.9 22.4 33.6

59 12.6 9.8 14.6





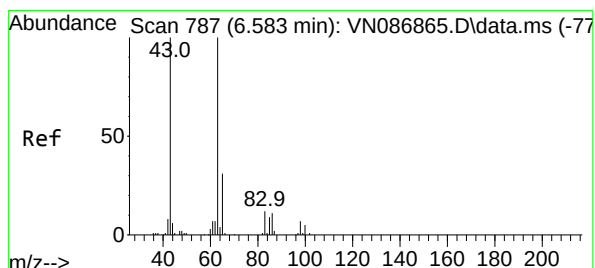
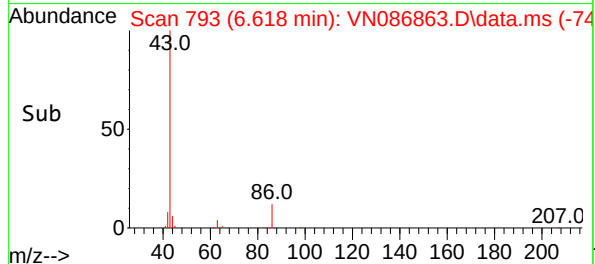
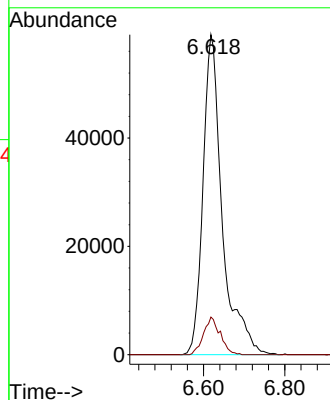
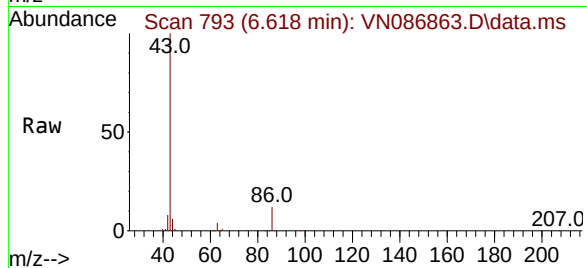
#23
Vinyl Acetate
Concen: 25.735 ug/l
RT: 6.618 min Scan# 793
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 194334
Ion Ratio Lower Upper
43 100
86 11.8 9.5 14.3

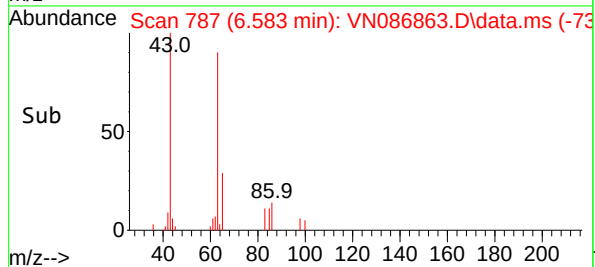
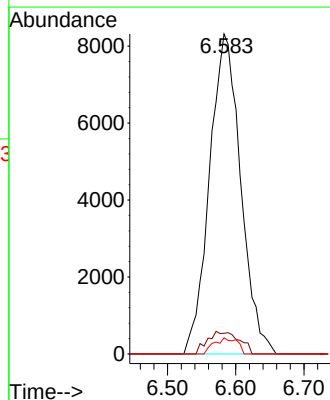
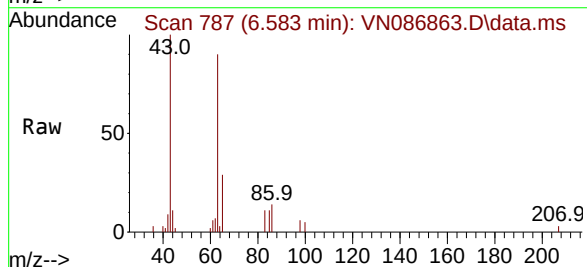
Manual Integrations
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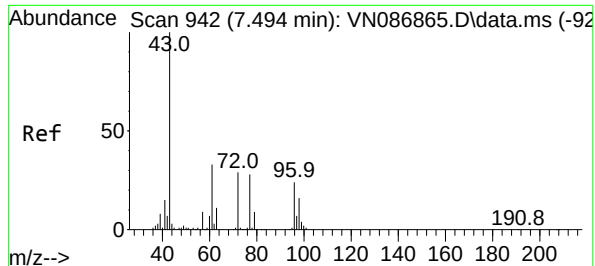
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#24
1,1-Dichloroethane
Concen: 5.147 ug/l
RT: 6.583 min Scan# 787
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 63 Resp: 26473
Ion Ratio Lower Upper
63 100
98 6.4 3.6 10.8
100 5.1 2.6 7.8





#25

2-Butanone

Concen: 25.888 ug/l

RT: 7.494 min Scan# 942

Delta R.T. 0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 68629

Ion Ratio Lower Upper

43 100

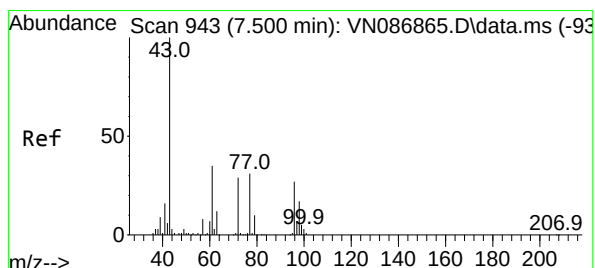
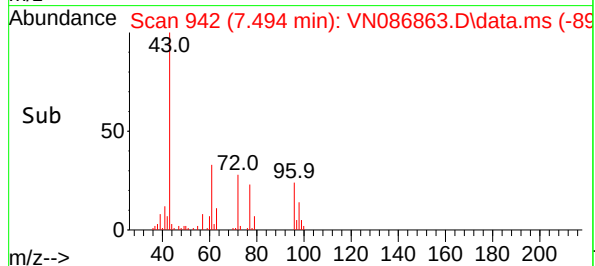
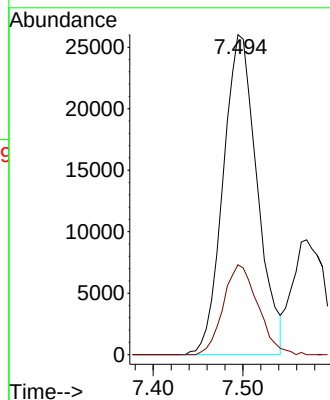
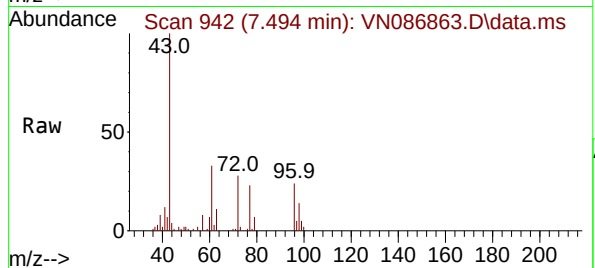
72 28.1 23.0 34.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 4.571 ug/l

RT: 7.500 min Scan# 943

Delta R.T. 0.000 min

Lab File: VN086863.D

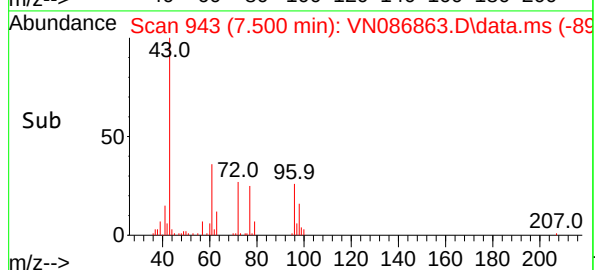
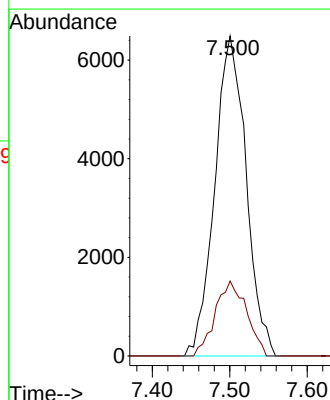
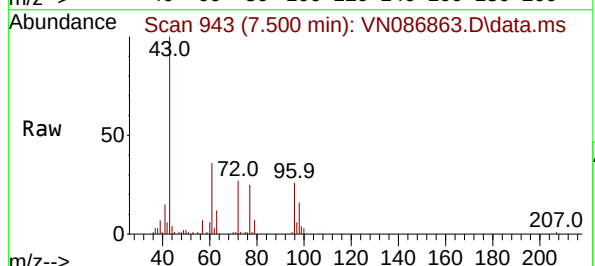
Acq: 06 Jun 2025 13:17

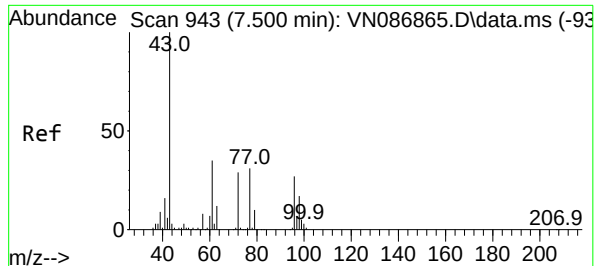
Tgt Ion: 77 Resp: 18288

Ion Ratio Lower Upper

77 100

97 23.3 11.6 34.7





#27

cis-1,2-Dichloroethene

Concen: 5.172 ug/l

RT: 7.500 min Scan# 943

Delta R.T. 0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

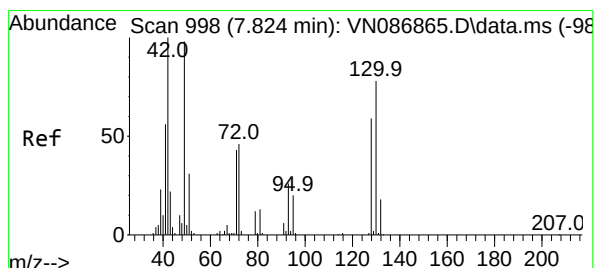
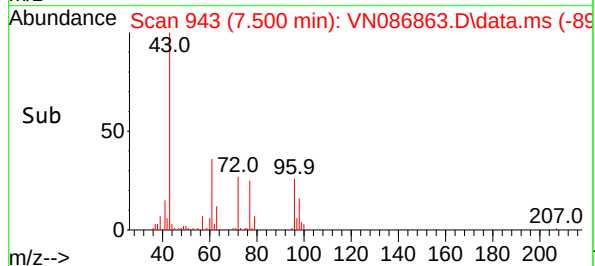
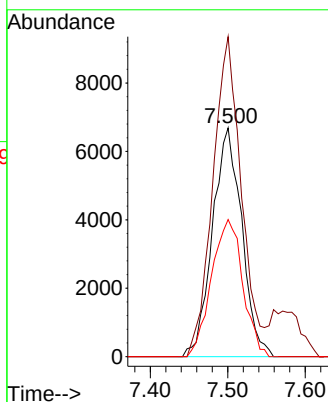
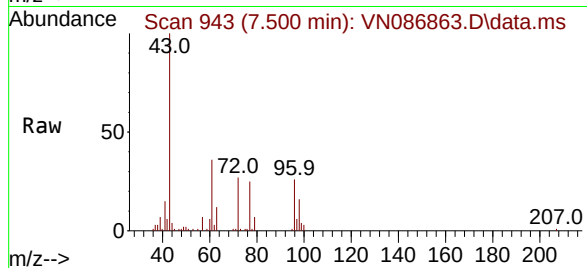
VSTDIC005

Tgt Ion:	96	Resp:	17594
Ion	Ratio	Lower	Upper
96	100		
61	136.0	0.0	278.0
98	64.0	0.0	128.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 5.124 ug/l

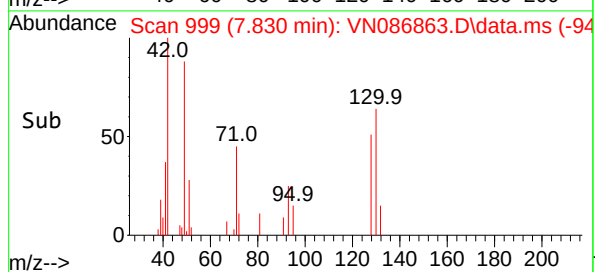
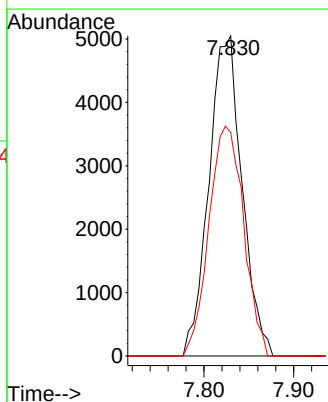
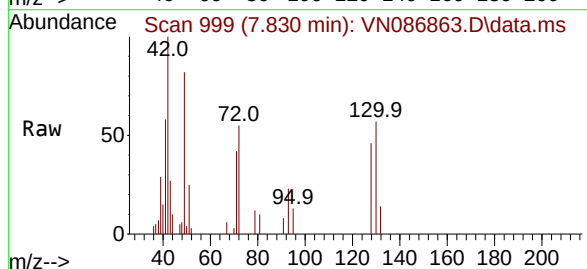
RT: 7.830 min Scan# 999

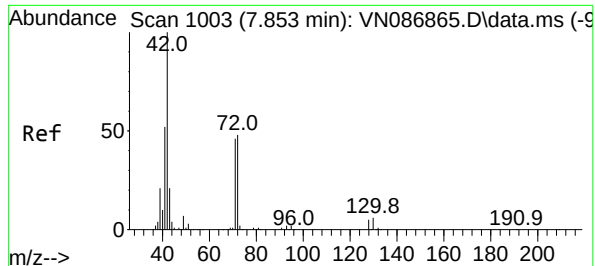
Delta R.T. 0.006 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Tgt Ion:	49	Resp:	12958
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	75.2	62.2	93.2





#29

Tetrahydrofuran

Concen: 25.912 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. 0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

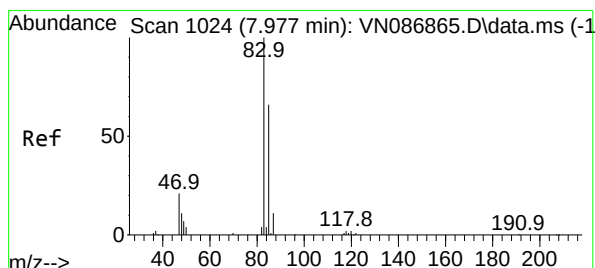
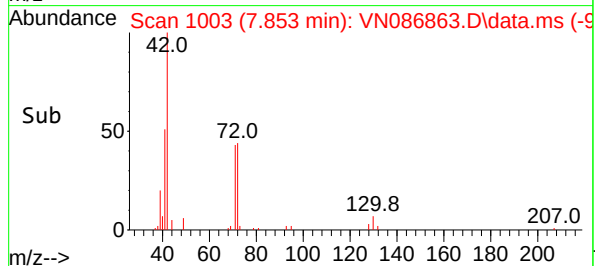
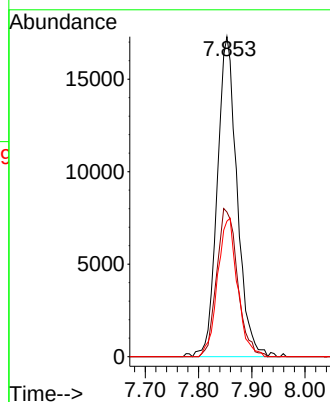
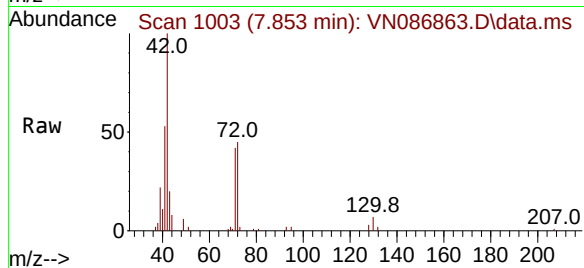
VSTDIC005

Tgt Ion:	42	Resp:	44749
Ion	Ratio	Lower	Upper
42	100		
72	48.6	37.8	56.6
71	43.5	35.6	53.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 5.149 ug/l

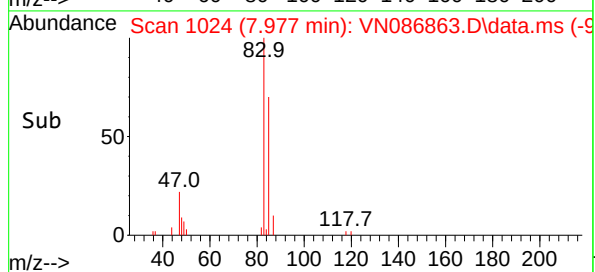
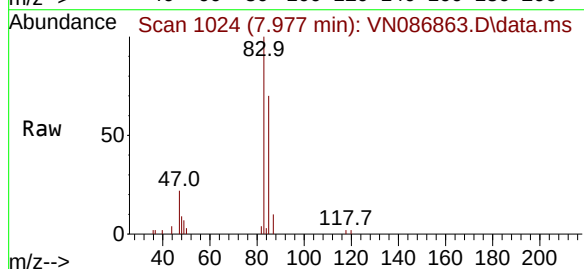
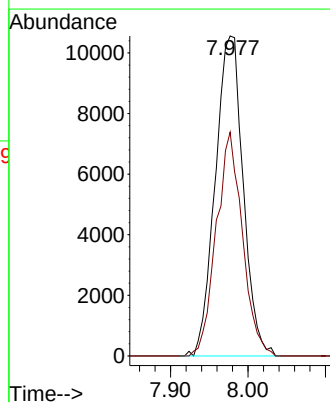
RT: 7.977 min Scan# 1024

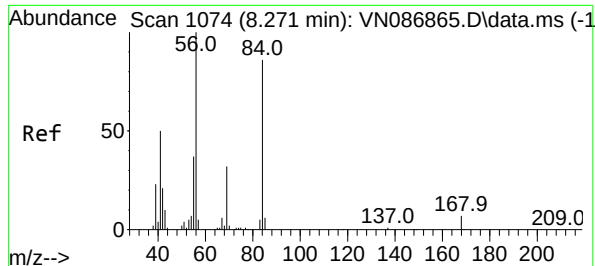
Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Tgt Ion:	83	Resp:	26450
Ion	Ratio	Lower	Upper
83	100		
85	69.9	52.9	79.3





#31

Cyclohexane

Concen: 6.002 ug/l

RT: 8.271 min Scan# 1074

Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

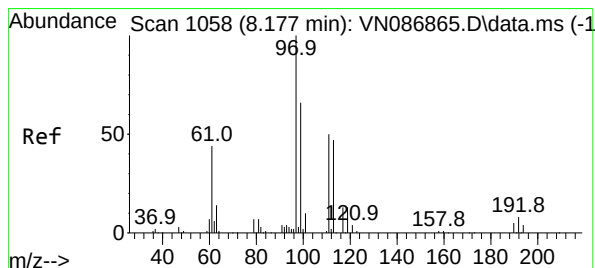
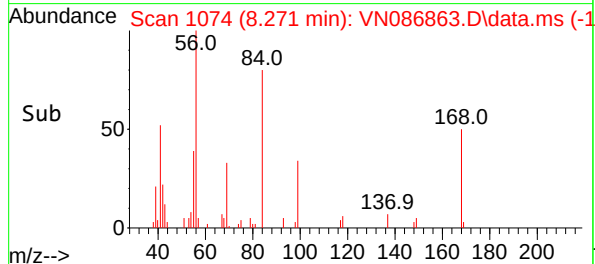
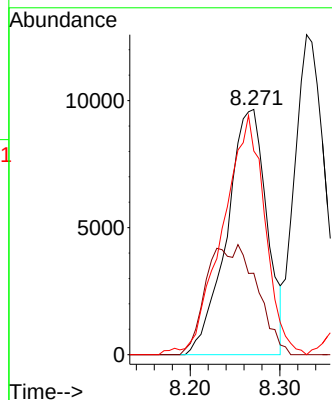
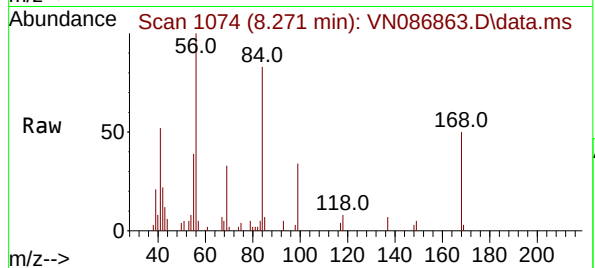
ClientSampleId :

VSTDIC005

Tgt Ion: 56	Resp: 29938
Ion Ratio	Lower Upper
56	100
69	33.2 25.4 38.0
84	81.1 68.8 103.2

Manual Integrations
APPROVED

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



#32

1,1,1-Trichloroethane

Concen: 5.232 ug/l

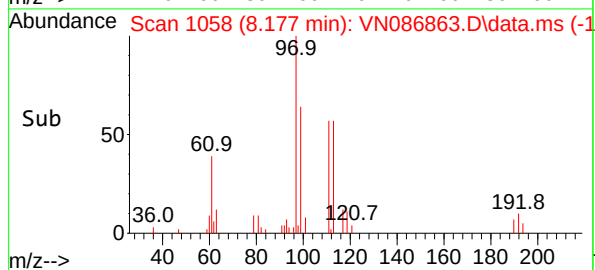
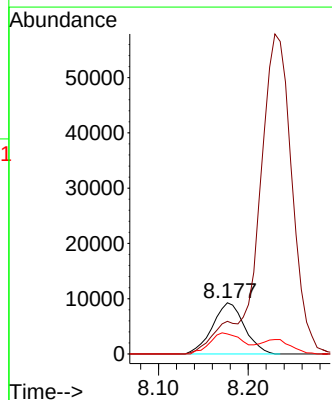
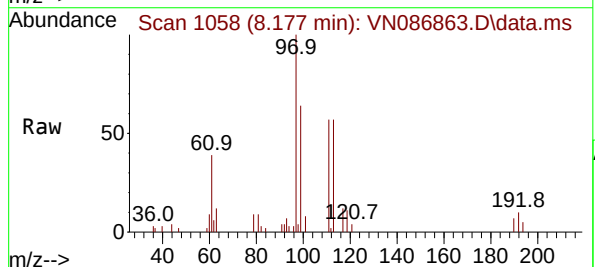
RT: 8.177 min Scan# 1058

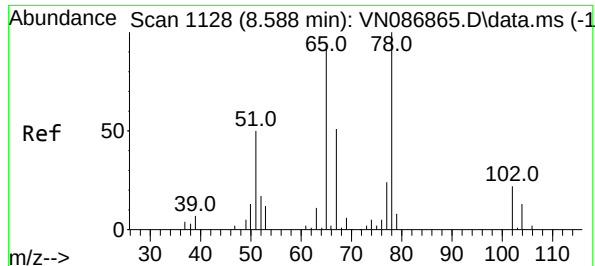
Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Tgt Ion: 97	Resp: 22857
Ion Ratio	Lower Upper
97	100
99	0.0 52.0 78.0
61	42.9 35.9 53.9





#33

1,2-Dichloroethane-d4

Concen: 5.468 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 16818

Ion Ratio Lower Upper

65 100

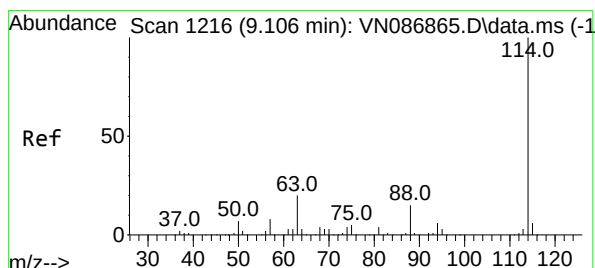
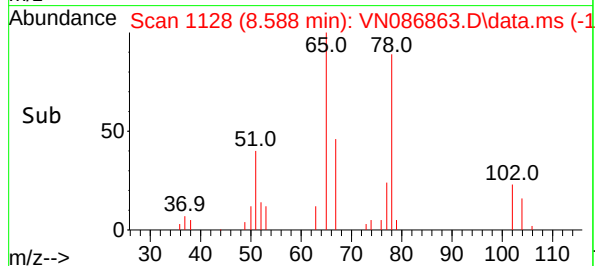
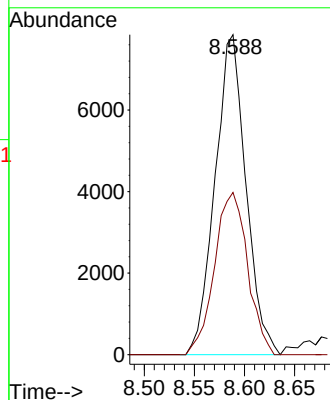
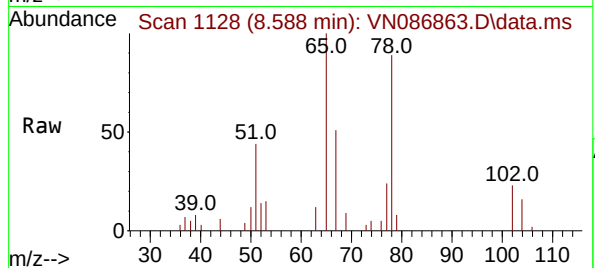
67 54.4 0.0 105.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

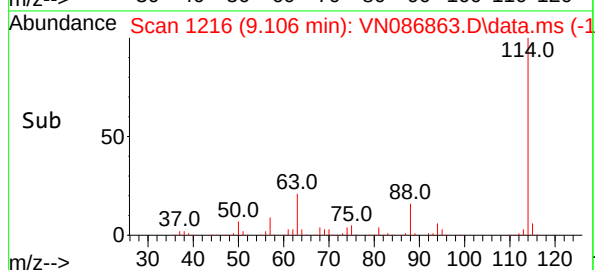
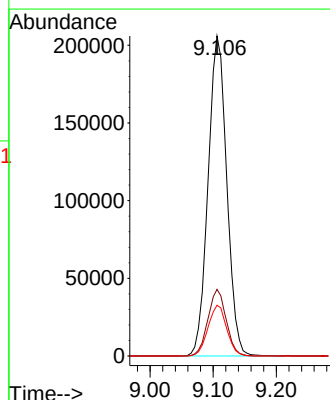
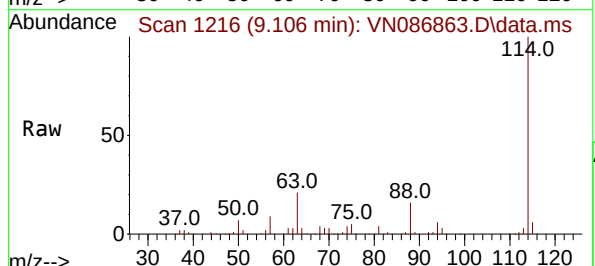
Tgt Ion:114 Resp: 423980

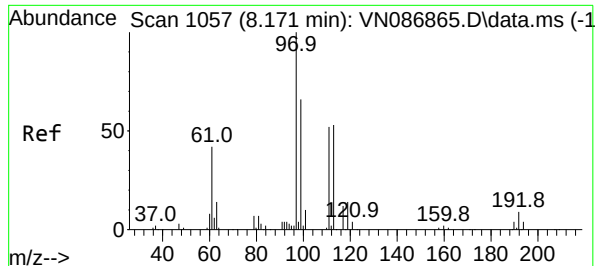
Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.6

88 15.9 0.0 30.2





#35

Dibromofluoromethane

Concen: 5.121 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

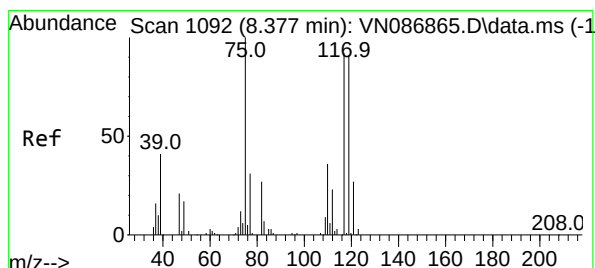
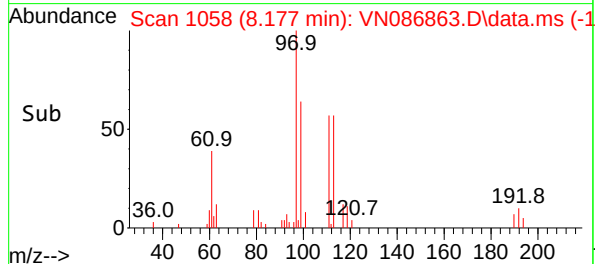
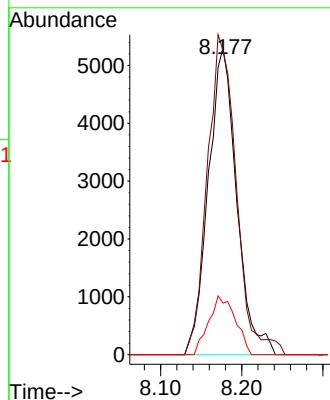
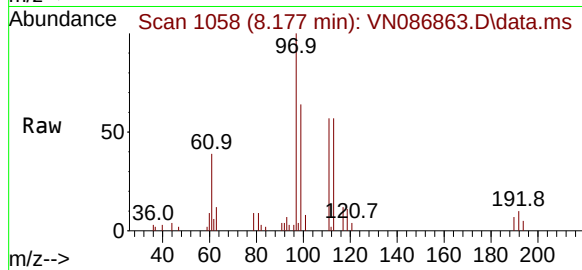
VSTDIC005

Tgt Ion:	113	Resp:	1286
Ion	Ratio	Lower	Upper
113	100		
111	106.5	84.2	126.2
192	18.0	14.2	21.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#36

1,1-Dichloropropene

Concen: 5.184 ug/l

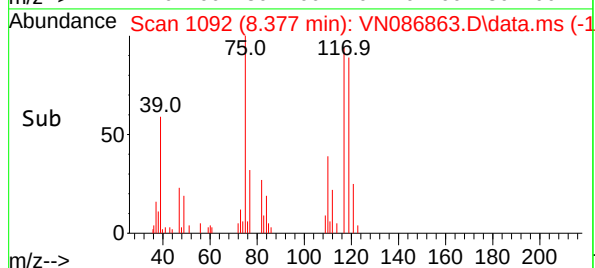
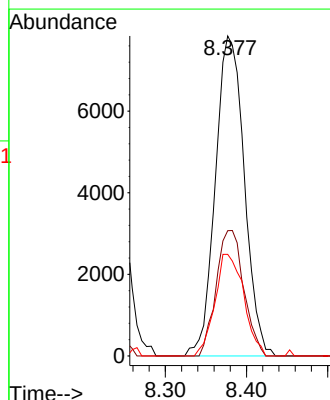
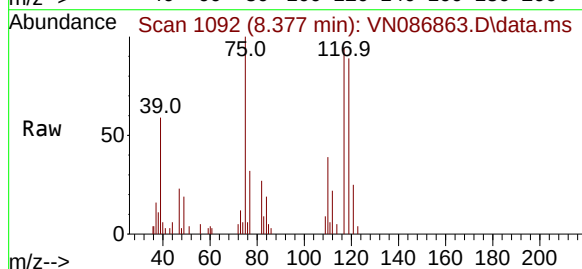
RT: 8.377 min Scan# 1092

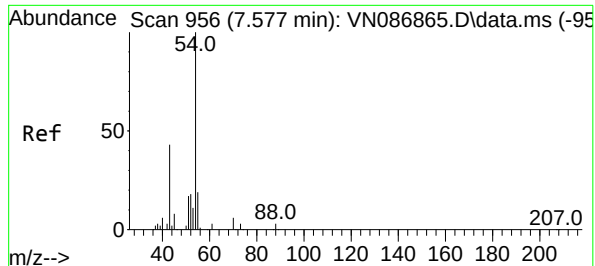
Delta R.T. 0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Tgt Ion:	75	Resp:	19410
Ion	Ratio	Lower	Upper
75	100		
110	37.4	17.6	52.9
77	31.7	25.3	37.9





#37

Ethyl Acetate

Concen: 5.470 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

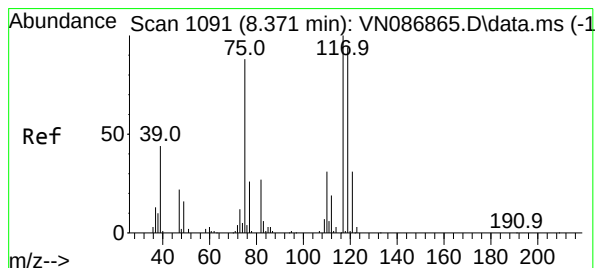
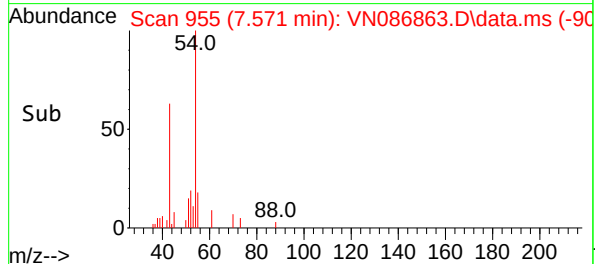
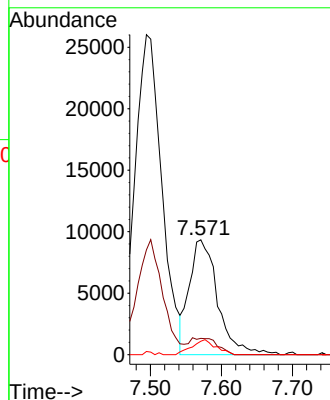
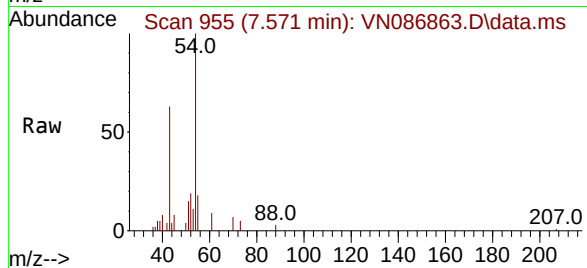
VSTDIC005

Tgt Ion:	43	Resp:	2607
Ion	Ratio	Lower	Upper
43	100		
61	14.1	12.1	18.1
70	10.9	9.8	14.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#38

Carbon Tetrachloride

Concen: 5.184 ug/l

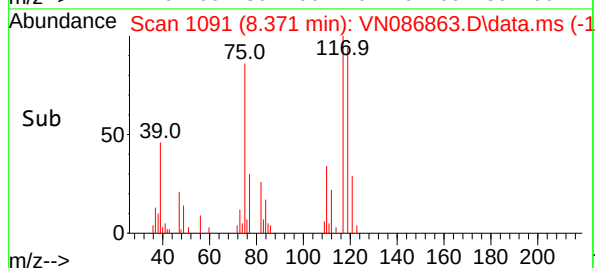
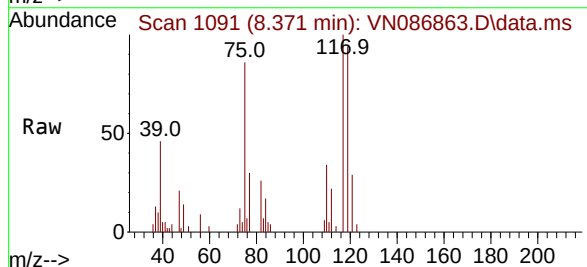
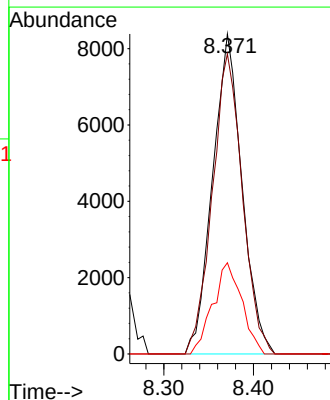
RT: 8.371 min Scan# 1091

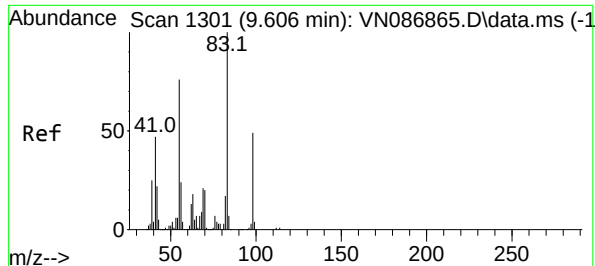
Delta R.T. 0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Tgt Ion:	117	Resp:	19056
Ion	Ratio	Lower	Upper
117	100		
119	93.8	75.0	112.6
121	28.5	24.9	37.3





#39

Methylcyclohexane

Concen: 5.333 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

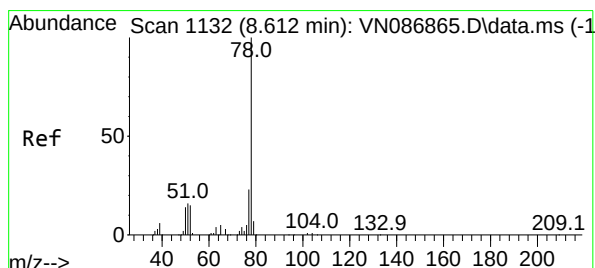
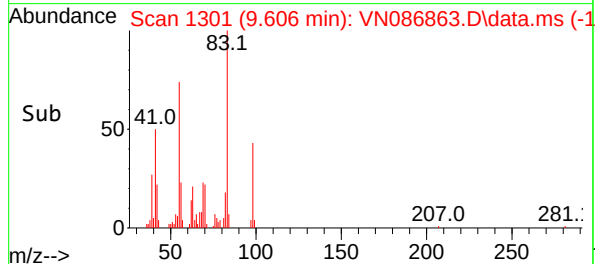
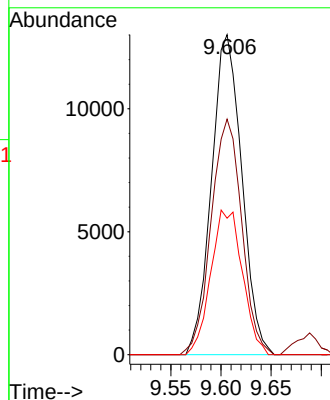
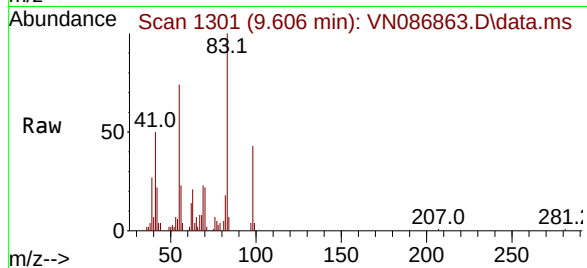
Tgt Ion:	83	Resp:	2735
Ion	Ratio	Lower	Upper
83	100		
55	73.6	61.0	91.6
98	42.6	38.9	58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#40

Benzene

Concen: 5.199 ug/l

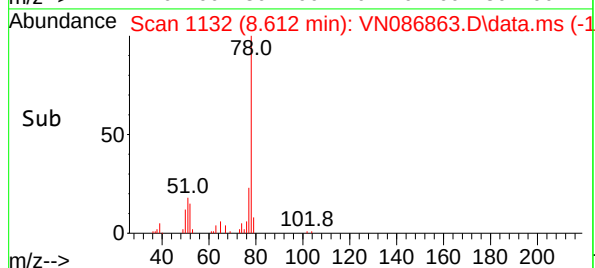
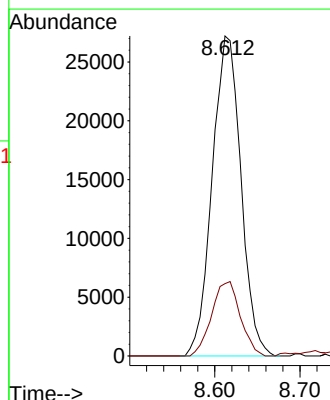
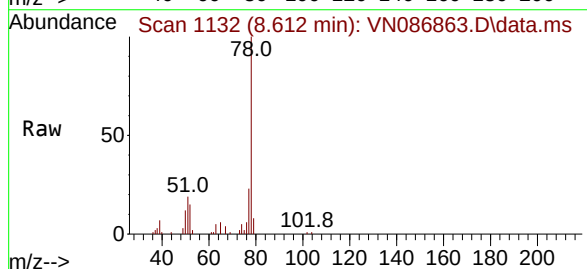
RT: 8.612 min Scan# 1132

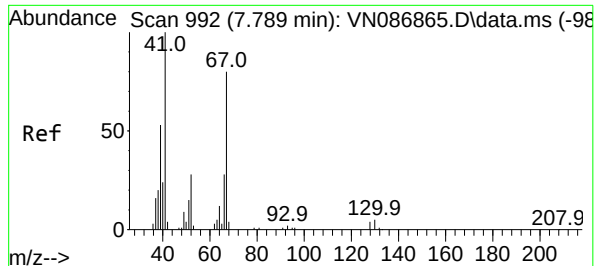
Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

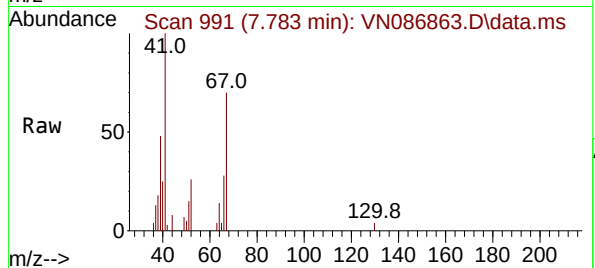
Tgt Ion:	78	Resp:	63646
Ion	Ratio	Lower	Upper
78	100		
77	22.6	18.7	28.1





#41
Methacrylonitrile
Concen: 5.050 ug/l
RT: 7.783 min Scan# 991
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

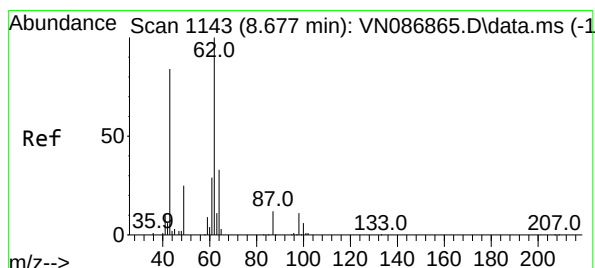
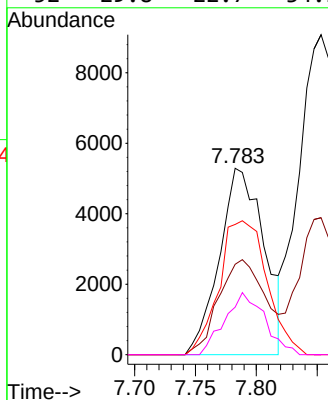
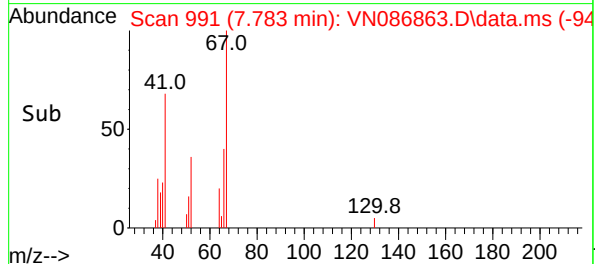
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



Tgt Ion:	41	Resp:	13518
Ion	Ratio	Lower	Upper
41	100		
39	53.1	41.2	61.8
67	77.0	61.4	92.2
52	29.8	22.7	34.1

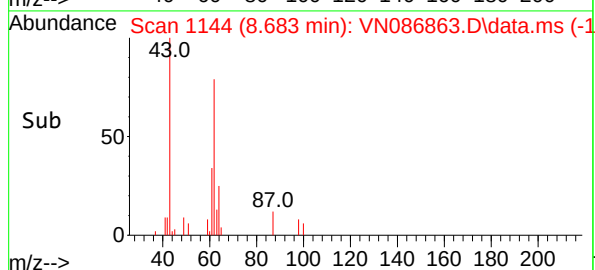
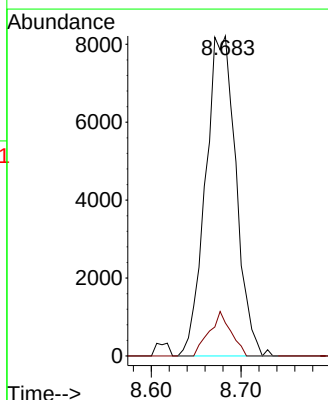
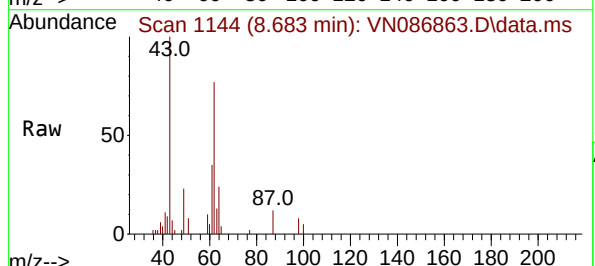
Manual Integrations
APPROVED

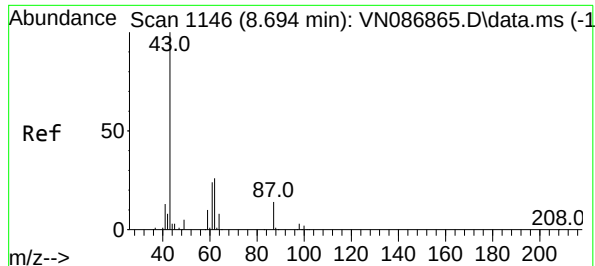
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#42
1,2-Dichloroethane
Concen: 5.205 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:	62	Resp:	19329
Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	21.2





#43

Isopropyl Acetate

Concen: 5.264 ug/l

RT: 8.700 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

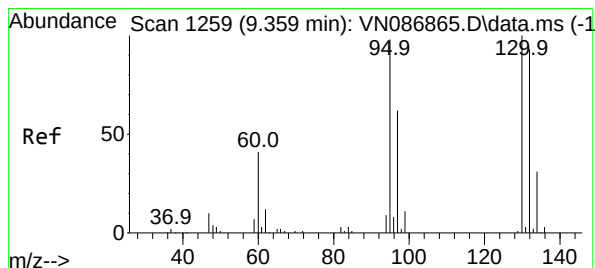
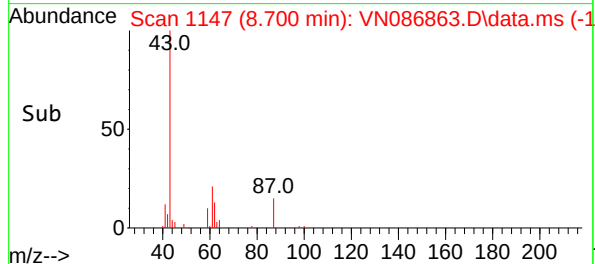
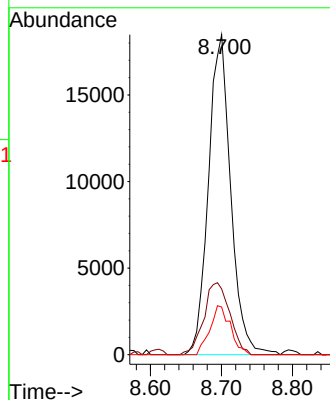
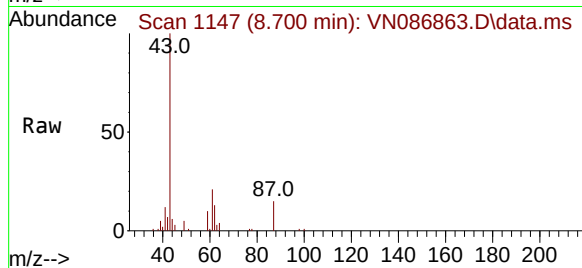
VSTDIC005

Tgt Ion: 43	Resp: 4026
Ion Ratio	Lower Upper
43 100	
61 26.2	22.1 33.1
87 14.1	11.8 17.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#44

Trichloroethene

Concen: 5.251 ug/l

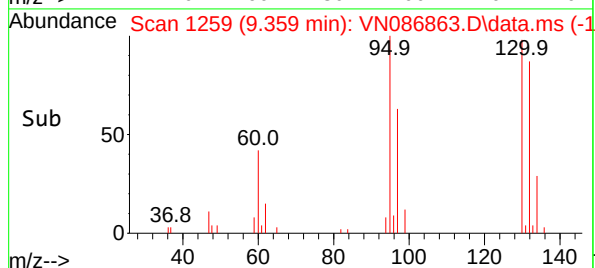
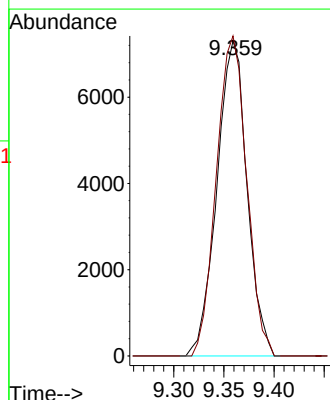
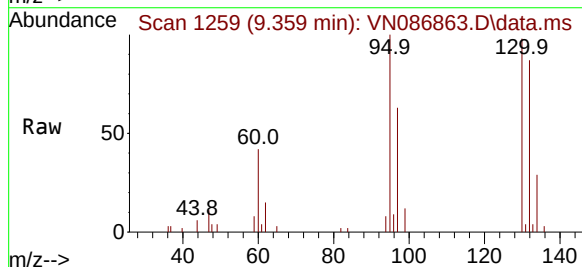
RT: 9.359 min Scan# 1259

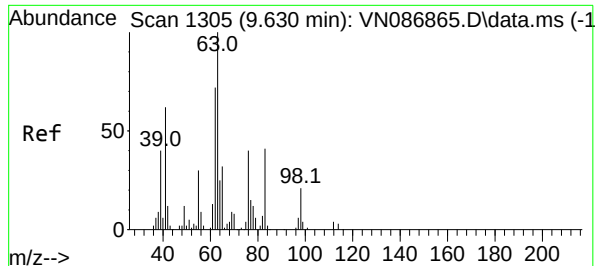
Delta R.T. 0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Tgt Ion:130	Resp: 15245
Ion Ratio	Lower Upper
130 100	
95 101.6	0.0 196.2





#45

1,2-Dichloropropane

Concen: 5.248 ug/l

RT: 9.624 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 1563

Ion Ratio Lower Upper

63 100

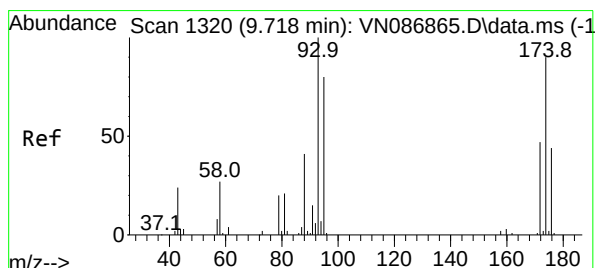
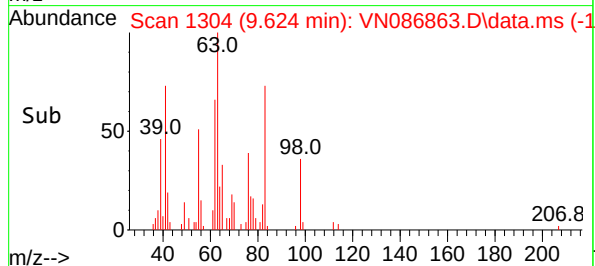
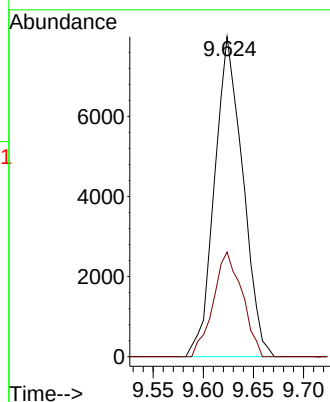
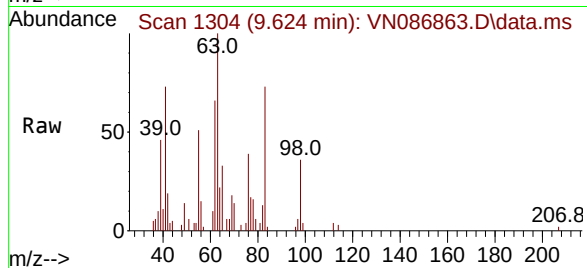
65 32.7 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#46

Dibromomethane

Concen: 5.176 ug/l

RT: 9.718 min Scan# 1320

Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

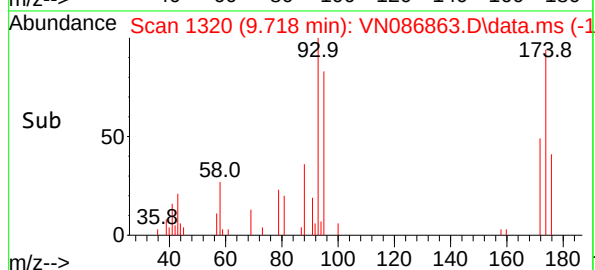
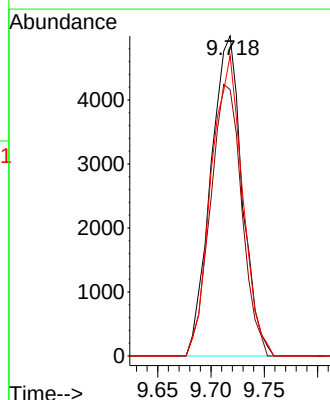
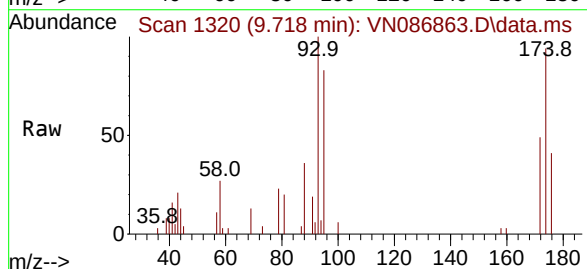
Tgt Ion: 93 Resp: 10241

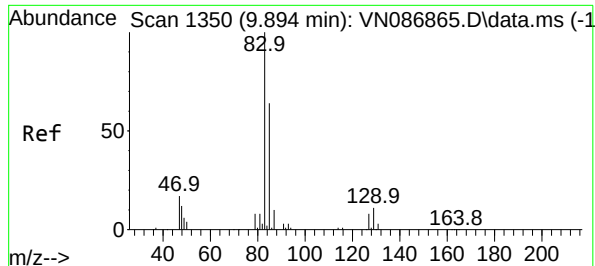
Ion Ratio Lower Upper

93 100

95 84.9 67.1 100.7

174 93.4 74.2 111.4





#47

Bromodichloromethane

Concen: 5.039 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.006 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

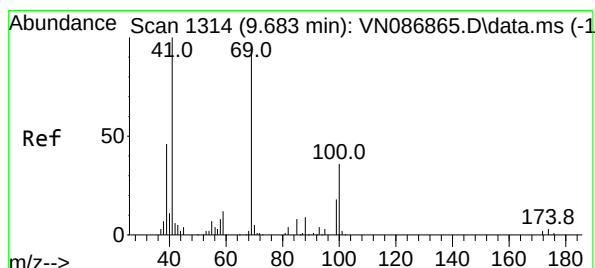
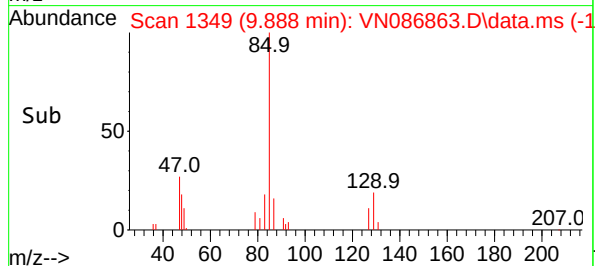
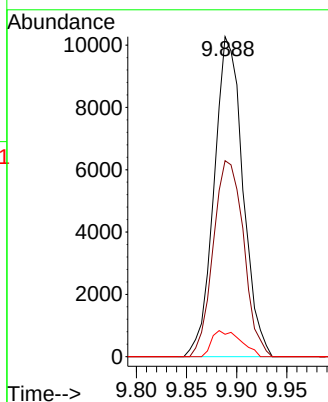
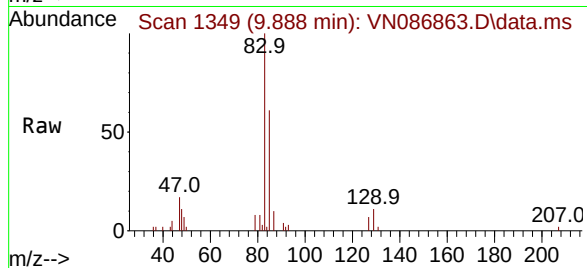
Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion:	83	Resp:	2051
Ion	Ratio	Lower	Upper
83	100		
85	61.3	50.9	76.3
127	7.0	6.6	10.0

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

#48

Methyl methacrylate

Concen: 4.996 ug/l

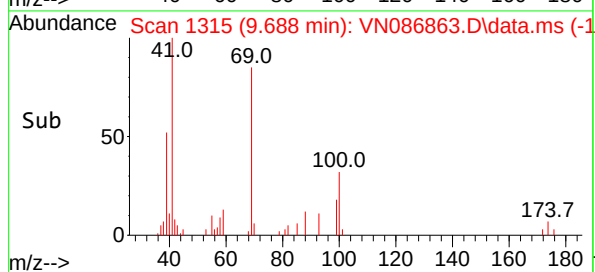
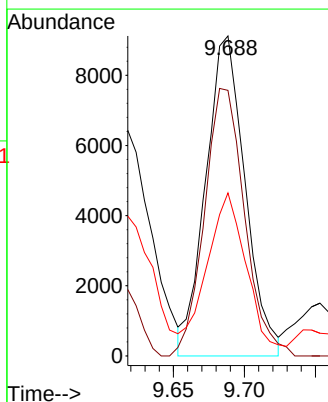
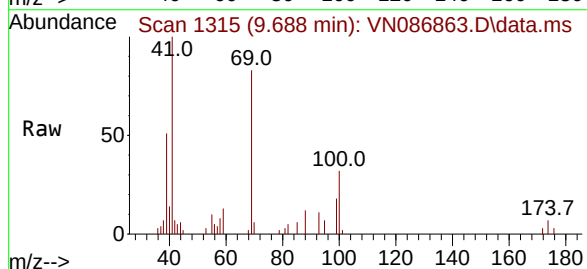
RT: 9.688 min Scan# 1315

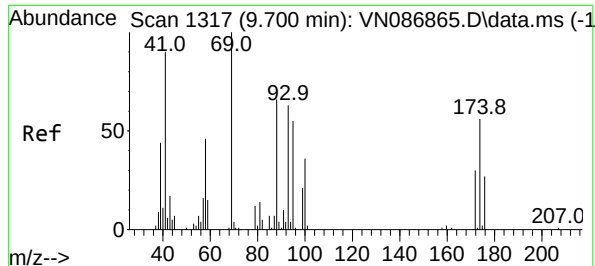
Delta R.T. 0.006 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Tgt Ion:	41	Resp:	17591
Ion	Ratio	Lower	Upper
41	100		
69	85.2	74.6	112.0
39	52.3	40.2	60.4





#49

1,4-Dioxane

Concen: 95.874 ug/l

RT: 9.700 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC005

Tgt Ion: 88 Resp: 614

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

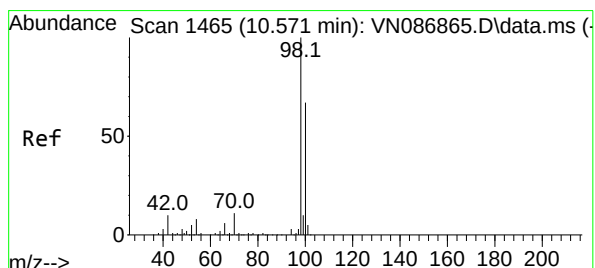
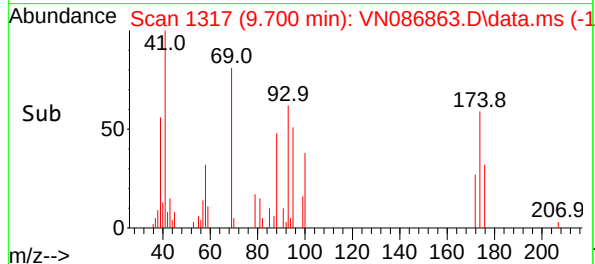
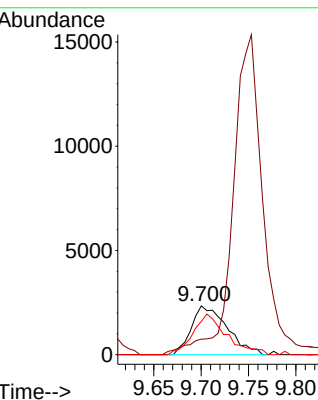
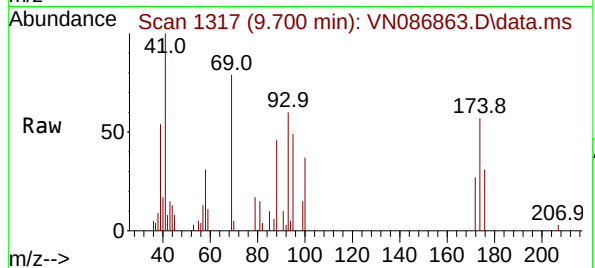
58 77.9 57.7 86.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#50

Toluene-d8

Concen: 5.308 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN086863.D

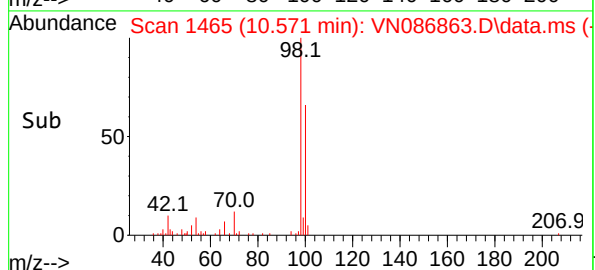
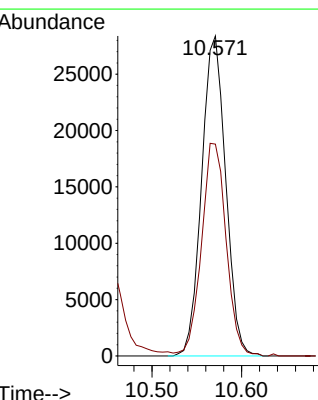
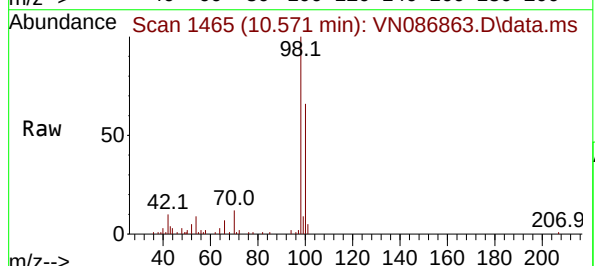
Acq: 06 Jun 2025 13:17

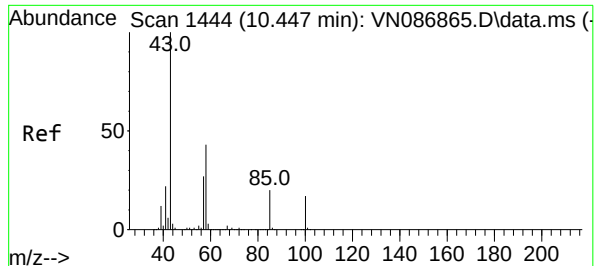
Tgt Ion: 98 Resp: 52794

Ion Ratio Lower Upper

98 100

100 68.1 53.4 80.0





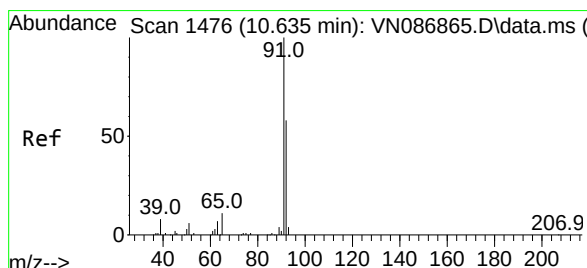
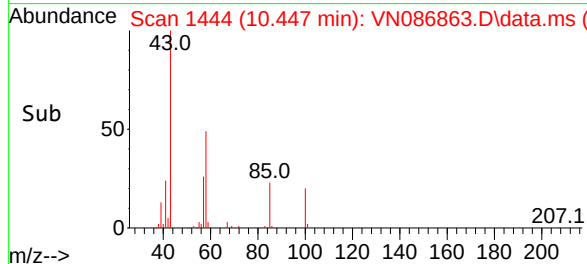
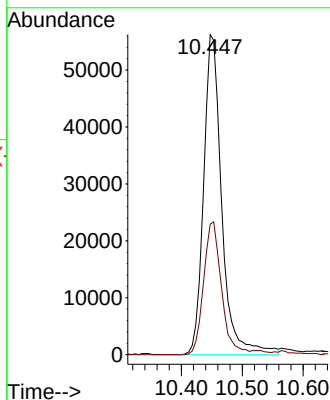
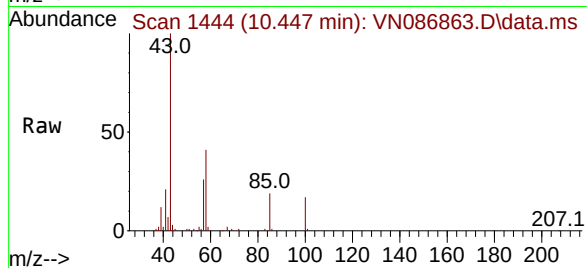
#51
4-Methyl-2-Pentanone
Concen: 25.283 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 116434
Ion Ratio Lower Upper
43 100
58 40.9 34.2 51.4

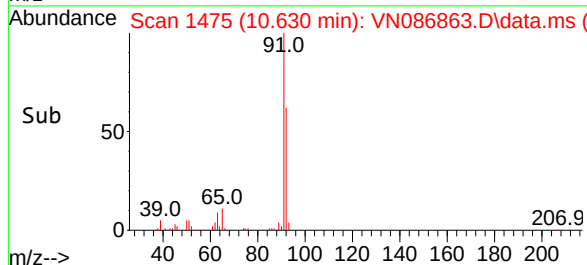
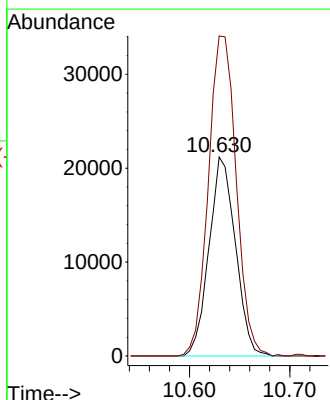
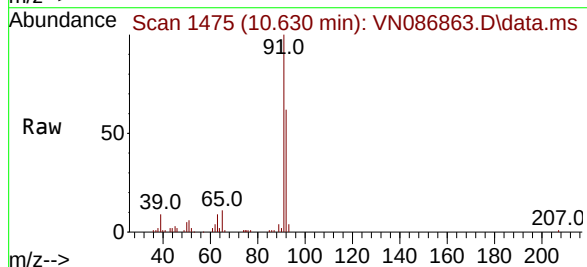
Manual Integrations
APPROVED

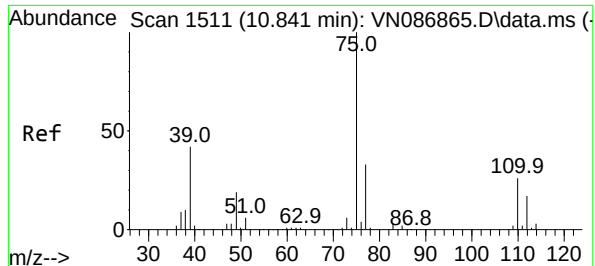
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#52
Toluene
Concen: 5.178 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

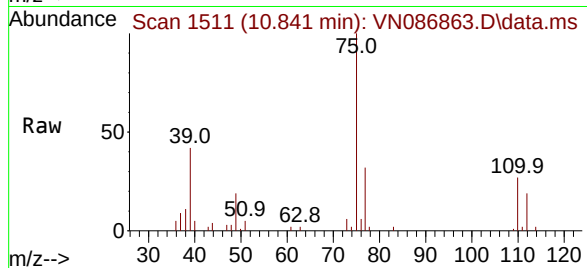
Tgt Ion: 92 Resp: 38744
Ion Ratio Lower Upper
92 100
91 169.5 136.5 204.7





#53
t-1,3-Dichloropropene
Concen: 4.896 ug/l
RT: 10.841 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

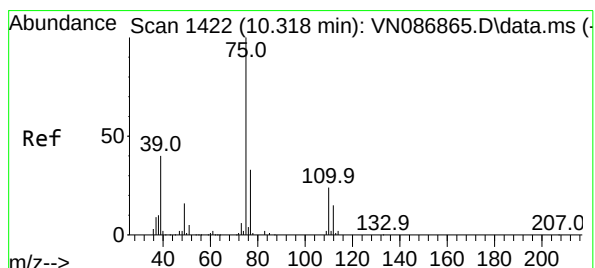
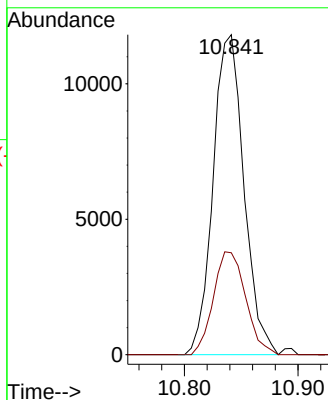
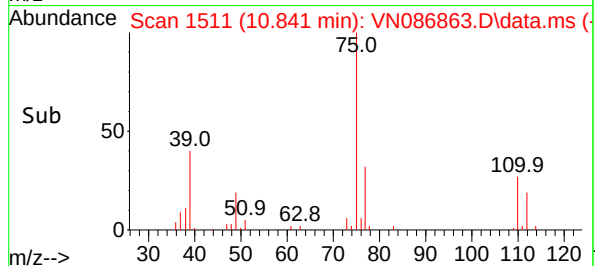
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



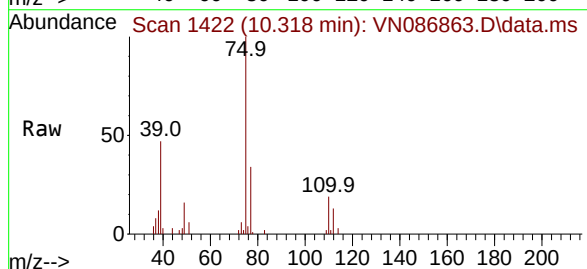
Tgt Ion: 75 Resp: 2228
Ion Ratio Lower Upper
75 100
77 31.9 26.4 39.6

Manual Integrations
APPROVED

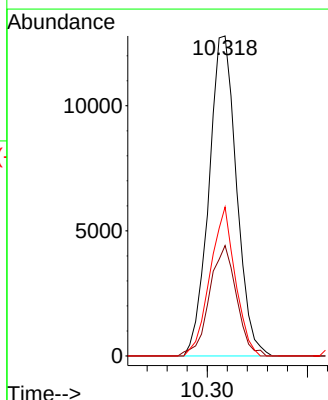
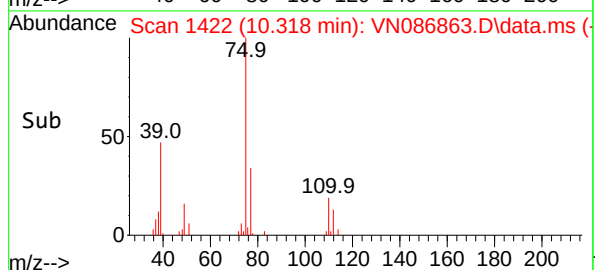
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

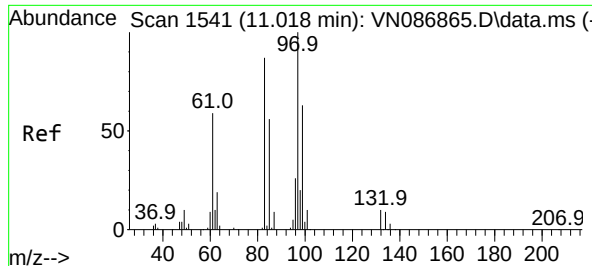


#54
cis-1,3-Dichloropropene
Concen: 5.026 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17



Tgt Ion: 75 Resp: 24477
Ion Ratio Lower Upper
75 100
77 34.5 26.2 39.4
39 46.5 32.3 48.5





#55

1,1,2-Trichloroethane

Concen: 5.234 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. 0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 1506

Ion Ratio Lower Upper

97 100

83 82.5 69.7 104.5

85 53.5 45.1 67.7

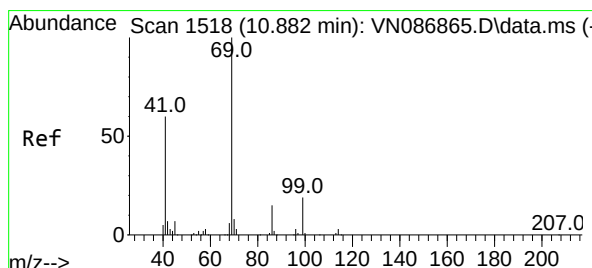
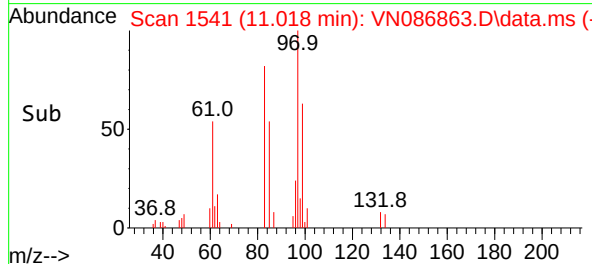
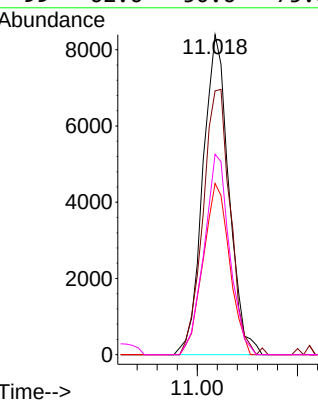
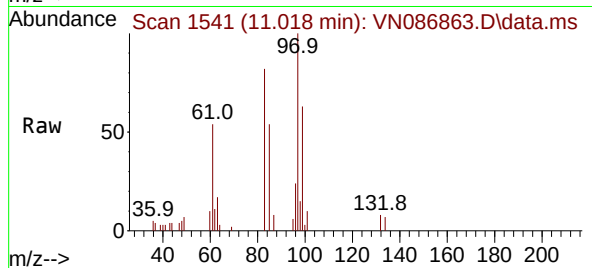
99 62.6 50.6 75.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#56

Ethyl methacrylate

Concen: 4.774 ug/l

RT: 10.888 min Scan# 1519

Delta R.T. 0.006 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

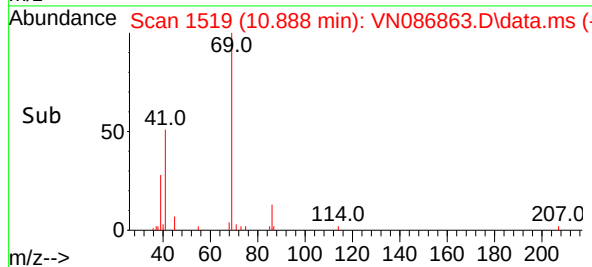
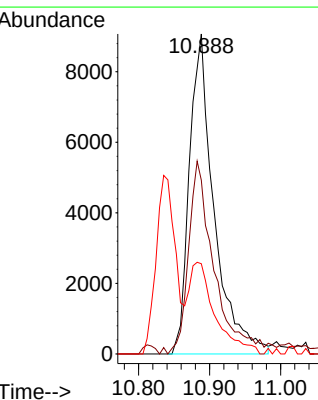
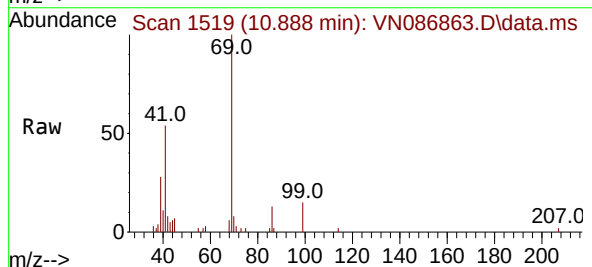
Tgt Ion: 69 Resp: 21893

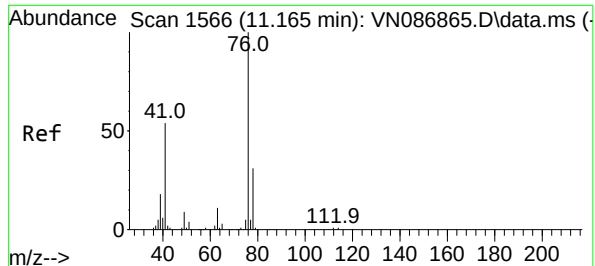
Ion Ratio Lower Upper

69 100

41 63.5 47.2 70.8

39 29.9 23.0 34.6





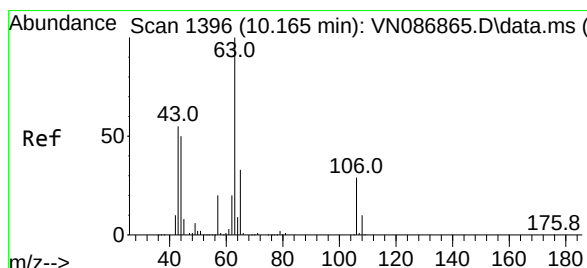
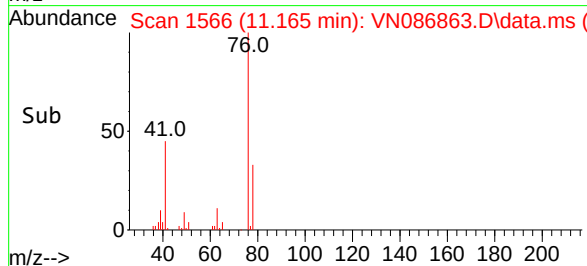
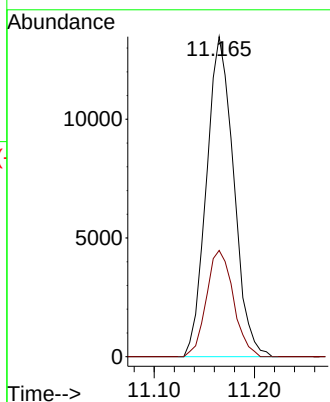
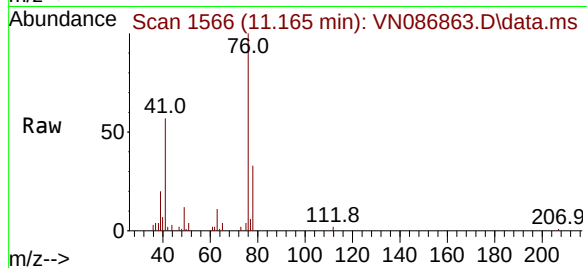
#57
1,3-Dichloropropane
Concen: 5.096 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 76 Resp: 25452
Ion Ratio Lower Upper
76 100
78 32.8 25.3 37.9

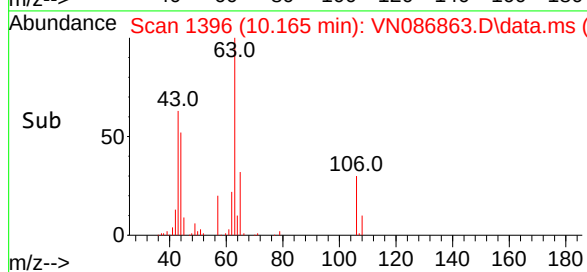
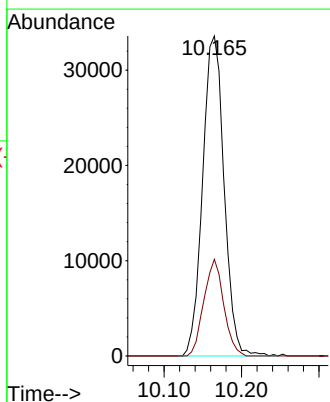
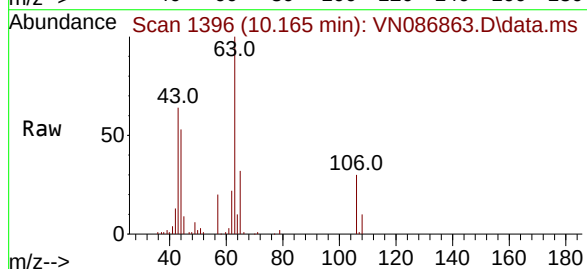
Manual Integrations
APPROVED

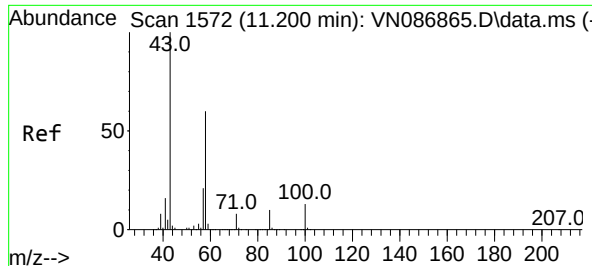
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#58
2-Chloroethyl Vinyl ether
Concen: 23.664 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 63 Resp: 64722
Ion Ratio Lower Upper
63 100
106 27.9 23.0 34.6





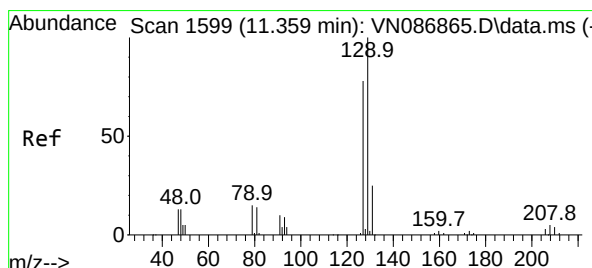
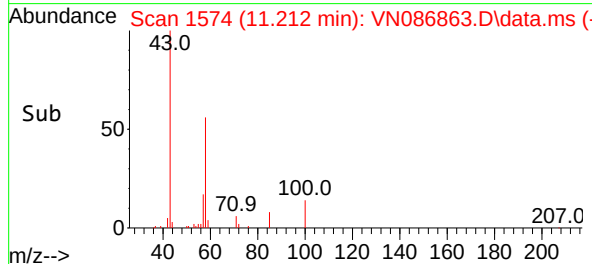
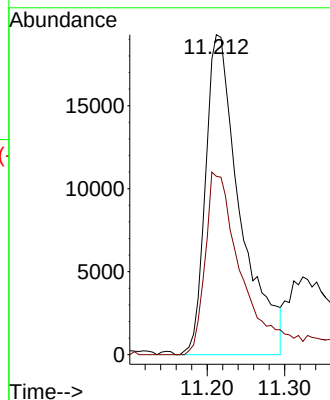
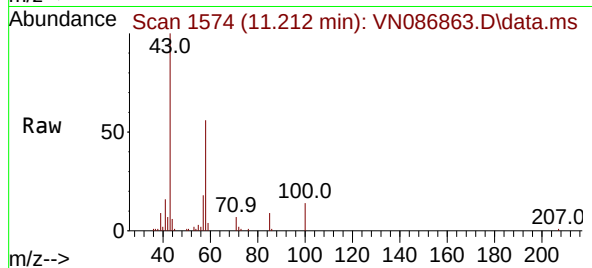
#59
2-Hexanone
Concen: 20.188 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 59884
Ion Ratio Lower Upper
43 100
58 60.5 30.4 91.3

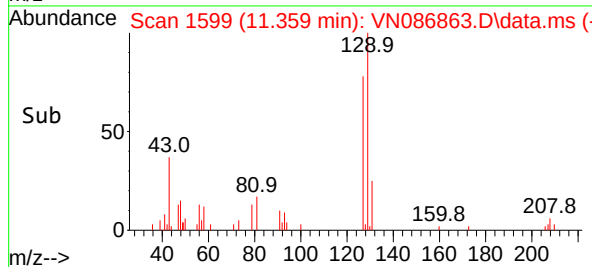
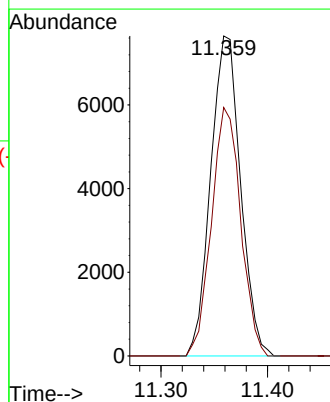
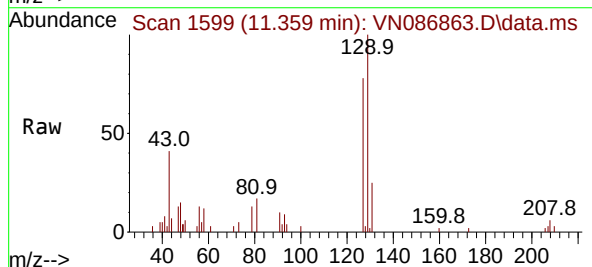
Manual Integrations
APPROVED

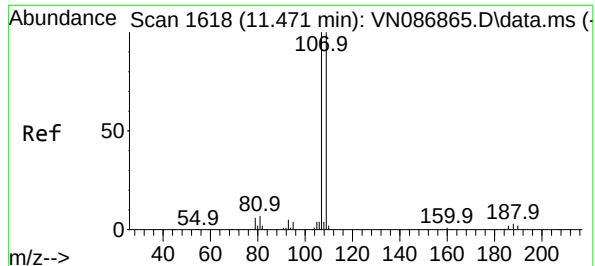
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#60
Dibromochloromethane
Concen: 4.962 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

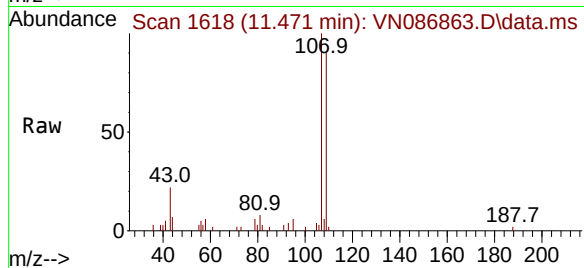
Tgt Ion:129 Resp: 14884
Ion Ratio Lower Upper
129 100
127 75.9 38.6 115.8





#61
1,2-Dibromoethane
Concen: 5.141 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

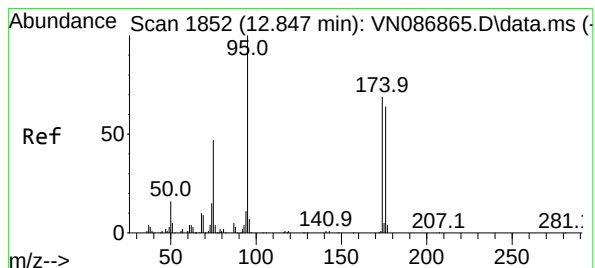
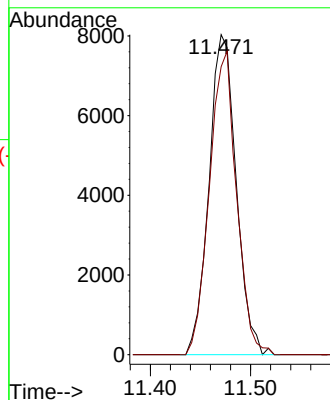
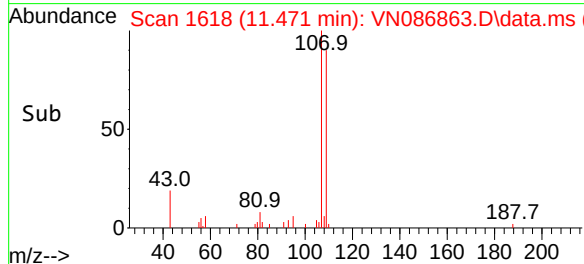
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC005



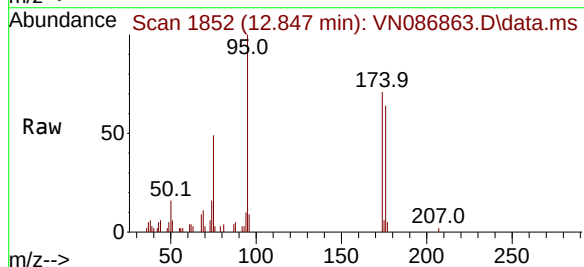
Tgt Ion: 107 Resp: 1517
Ion Ratio Lower Upper
107 100
109 94.2 76.3 114.5

Manual Integrations
APPROVED

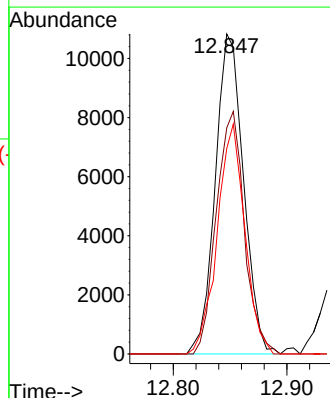
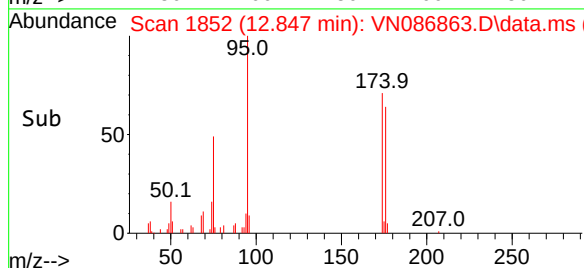
Reviewed By : John Carlone 06/09/2025
Supervised By : Mahesh Dadoda 06/09/2025

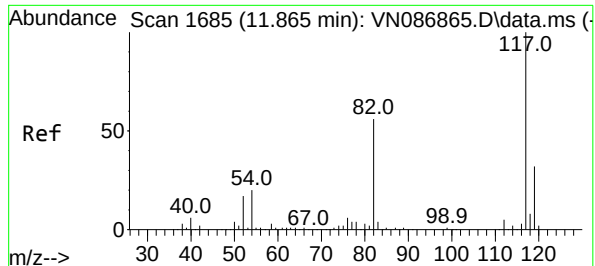


#62
4-Bromofluorobenzene
Concen: 5.059 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17



Tgt Ion: 95 Resp: 18697
Ion Ratio Lower Upper
95 100
174 75.5 0.0 141.8
176 70.2 0.0 132.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:117 Resp: 37185

Ion Ratio Lower Upper

117 100

82 57.3 44.6 67.0

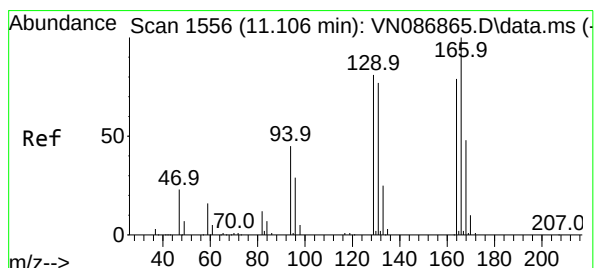
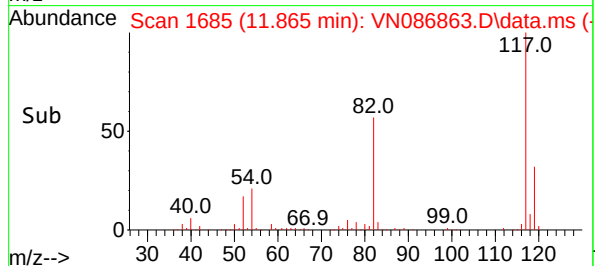
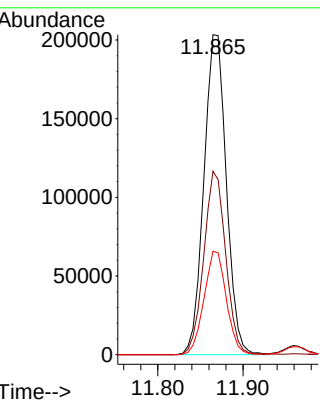
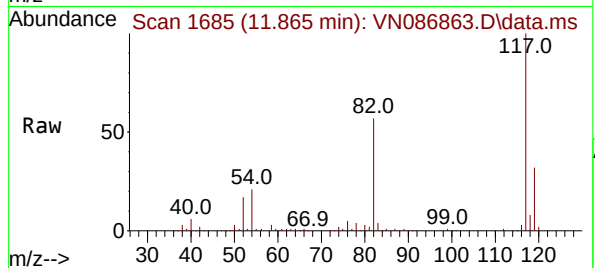
119 32.3 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#64

Tetrachloroethene

Concen: 5.236 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. 0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Tgt Ion:164 Resp: 12322

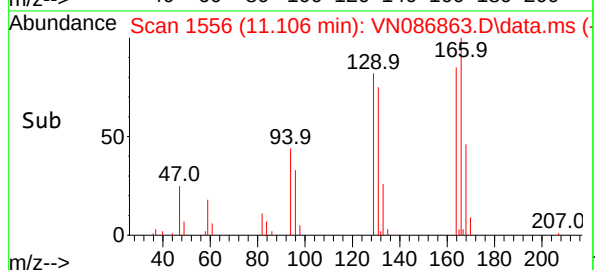
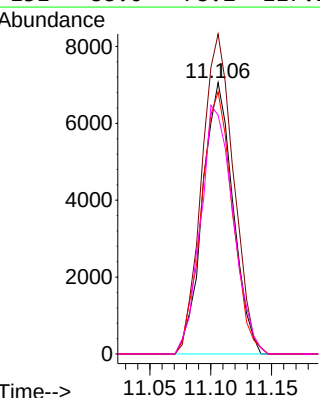
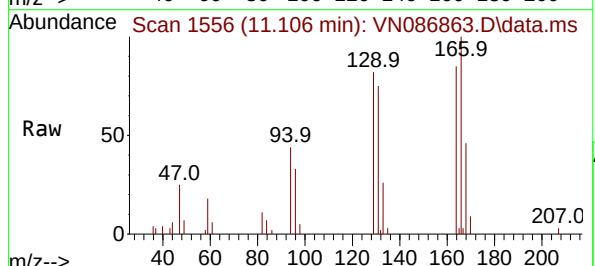
Ion Ratio Lower Upper

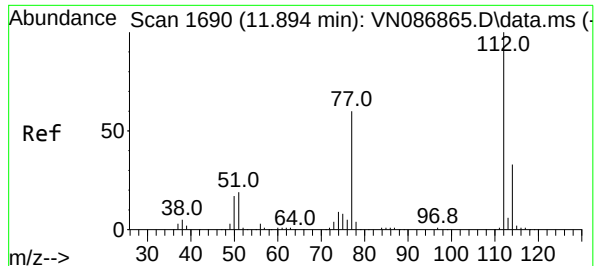
164 100

166 117.9 101.8 152.8

129 96.6 83.0 124.4

131 88.0 78.2 117.2





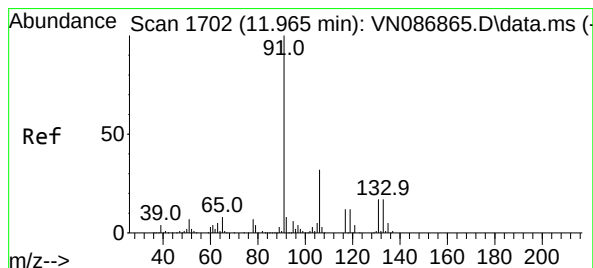
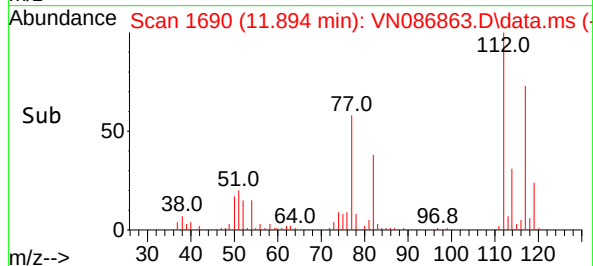
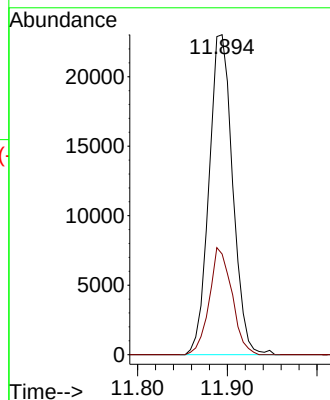
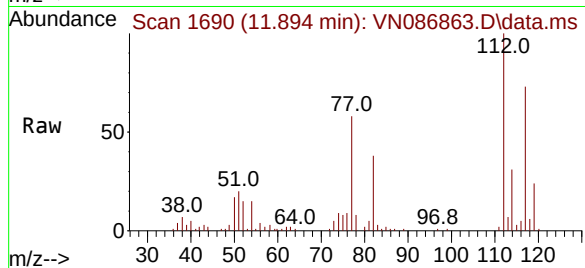
#65
Chlorobenzene
Concen: 5.145 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 4219
Ion Ratio Lower Upper
112 100
114 31.5 26.2 39.2

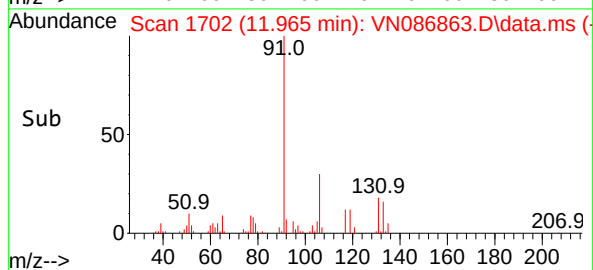
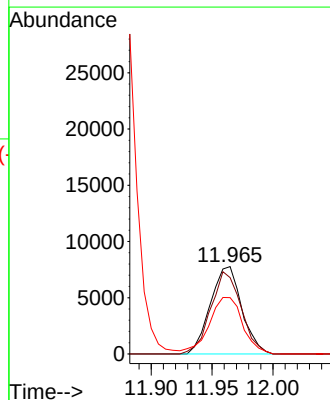
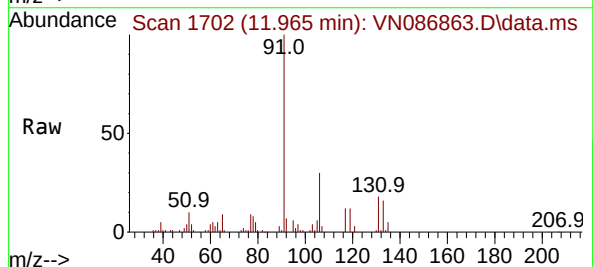
Manual Integrations
APPROVED

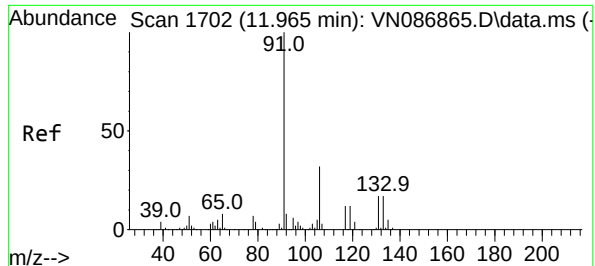
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 5.271 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:131 Resp: 13897
Ion Ratio Lower Upper
131 100
133 91.7 48.3 144.8
119 69.1 34.0 101.8





#67

Ethyl Benzene

Concen: 5.199 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. 0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 7344

Ion Ratio Lower Upper

91 100

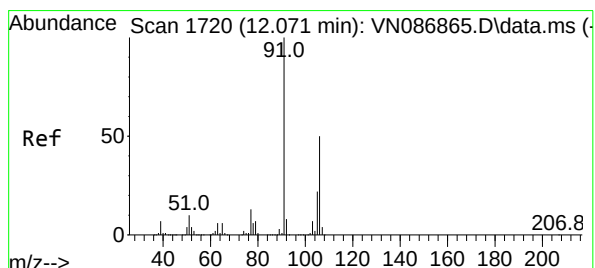
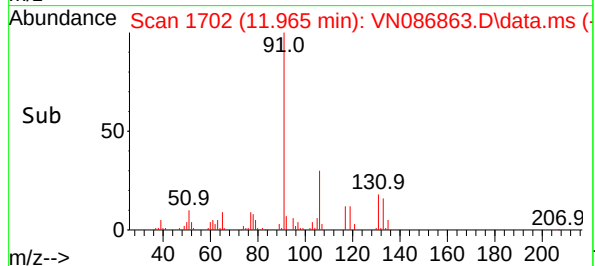
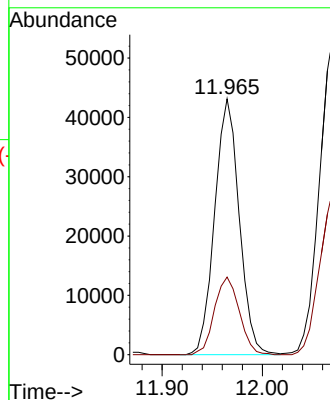
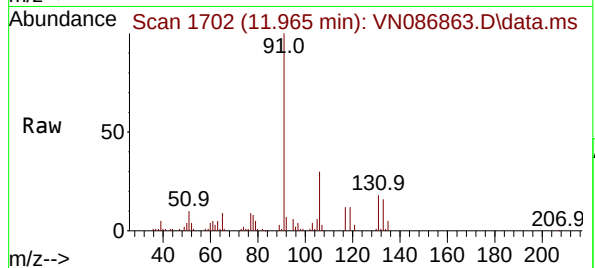
106 30.3 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#68

m/p-Xylenes

Concen: 10.330 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN086863.D

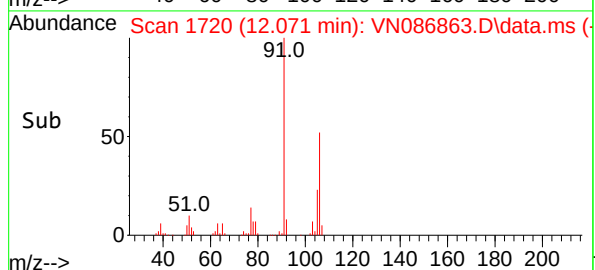
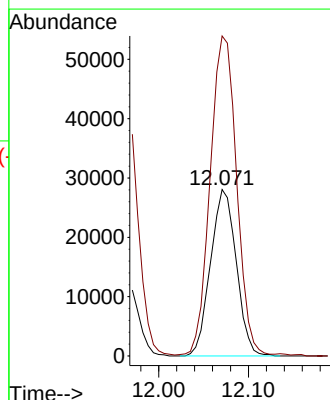
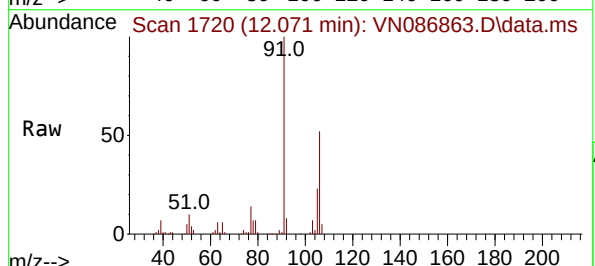
Acq: 06 Jun 2025 13:17

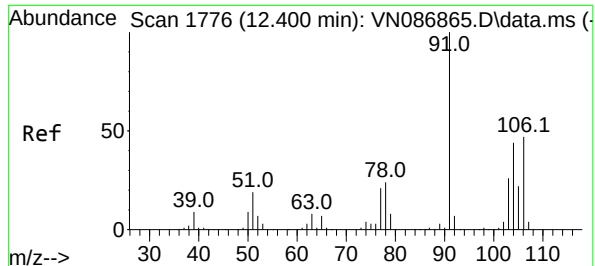
Tgt Ion:106 Resp: 55859

Ion Ratio Lower Upper

106 100

91 199.0 159.4 239.0





#69

o-Xylene

Concen: 5.021 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. 0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:106 Resp: 26004

Ion Ratio Lower Upper

106 100

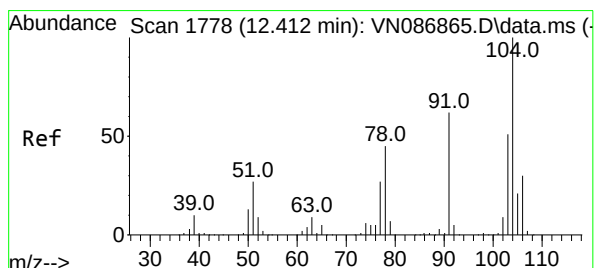
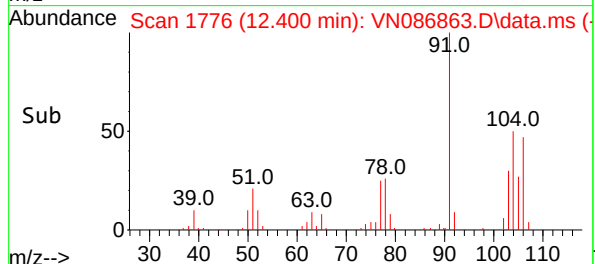
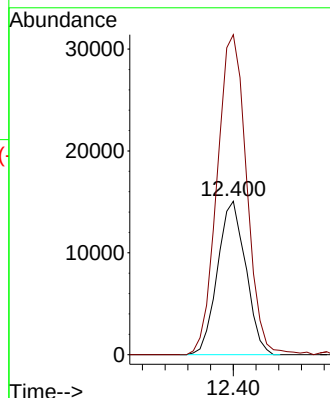
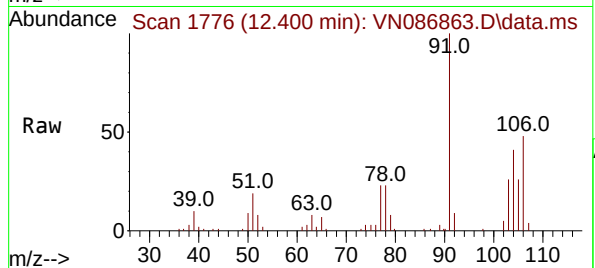
91 218.1 106.1 318.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#70

Styrene

Concen: 5.008 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

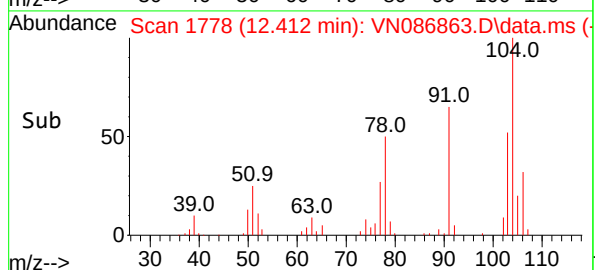
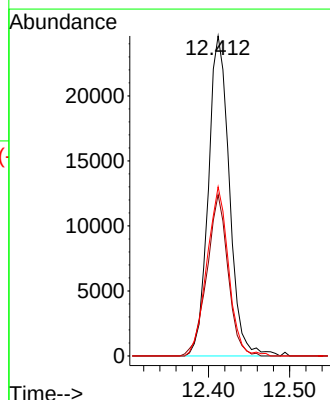
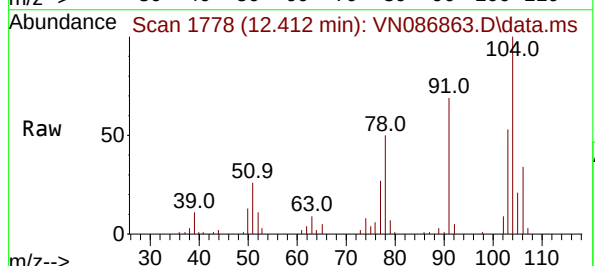
Tgt Ion:104 Resp: 44380

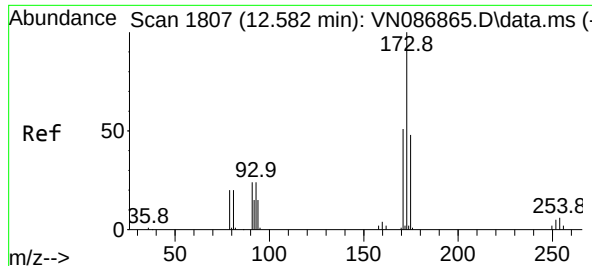
Ion Ratio Lower Upper

104 100

78 50.4 38.5 57.7

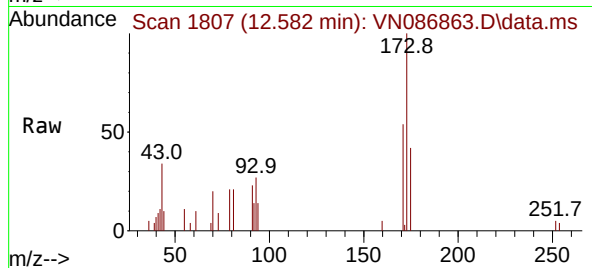
103 54.4 43.1 64.7





#71
Bromoform
Concen: 5.063 ug/l
RT: 12.582 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

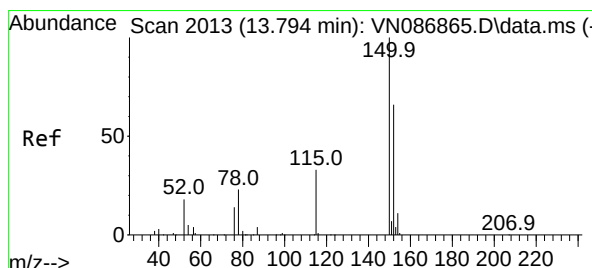
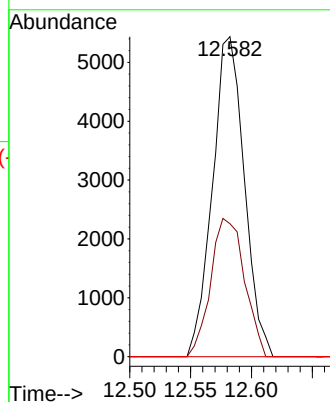
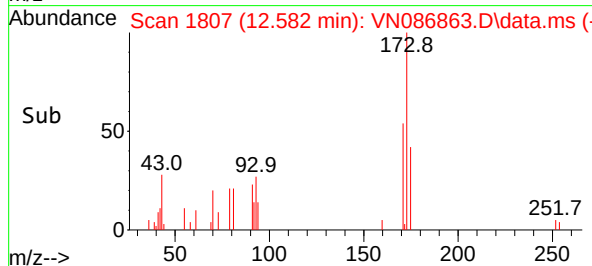
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005



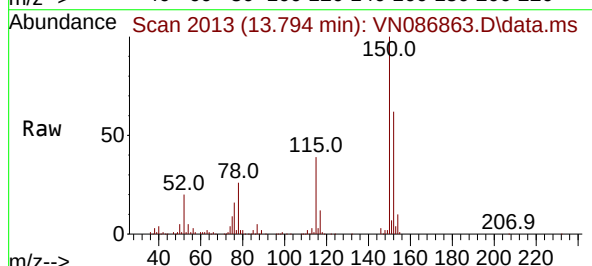
Tgt Ion:173 Resp: 9890
Ion Ratio Lower Upper
173 100
175 45.8 24.1 72.4
254 0.0 0.0 0.0

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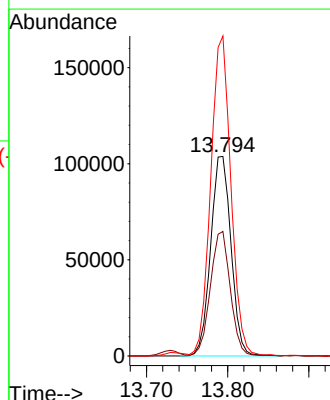
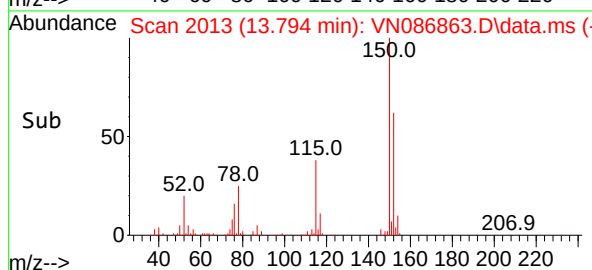
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

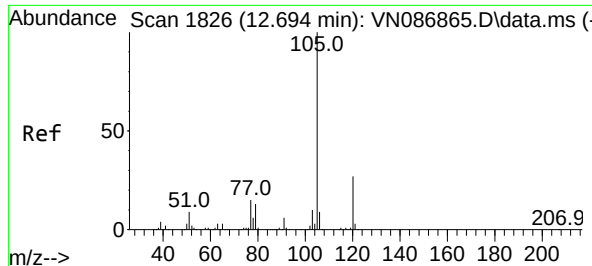


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17



Tgt Ion:152 Resp: 181065
Ion Ratio Lower Upper
152 100
115 61.2 30.1 90.5
150 157.8 0.0 345.0





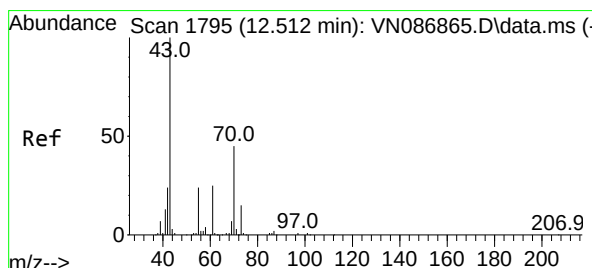
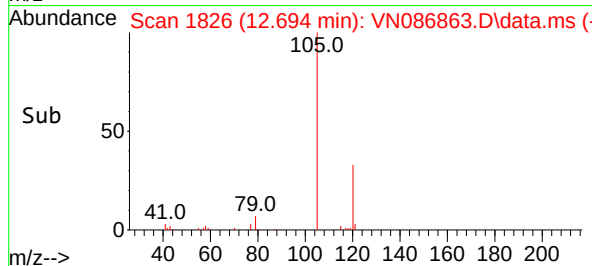
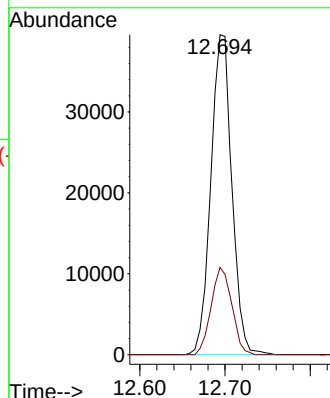
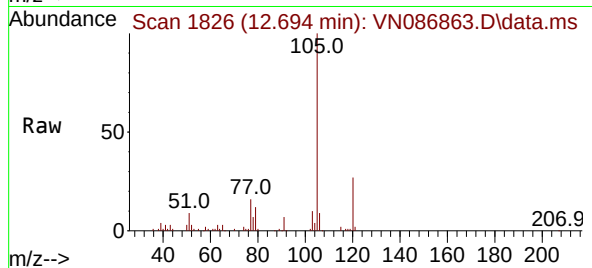
#73
Isopropylbenzene
Concen: 5.146 ug/l
RT: 12.694 min Scan# 1803
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 67878
Ion Ratio Lower Upper
105 100
120 26.8 13.5 40.4

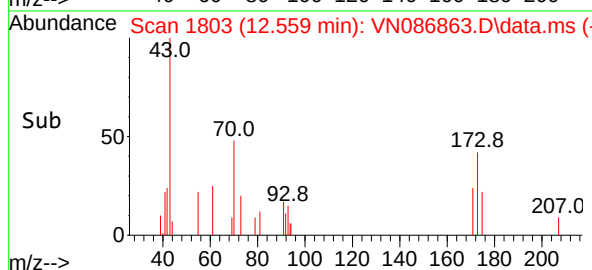
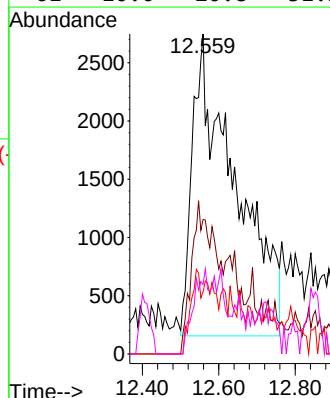
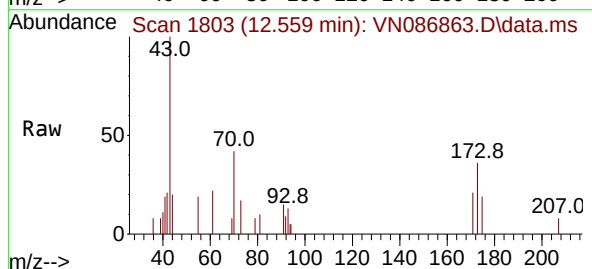
Manual Integrations
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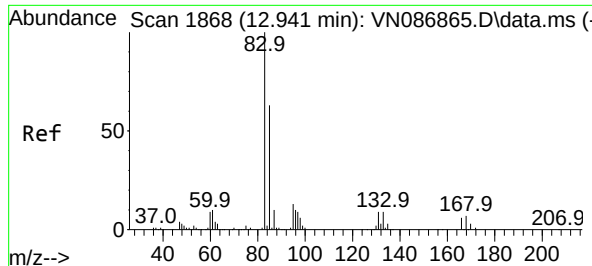
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#74
N-ethyl acetate
Concen: 4.590 ug/l m
RT: 12.559 min Scan# 1803
Delta R.T. 0.047 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 43 Resp: 20096
Ion Ratio Lower Upper
43 100
70 0.0 37.6 56.4#
55 0.0 19.0 28.6#
61 10.0 20.8 31.2#





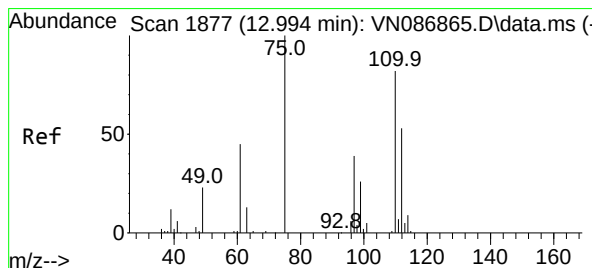
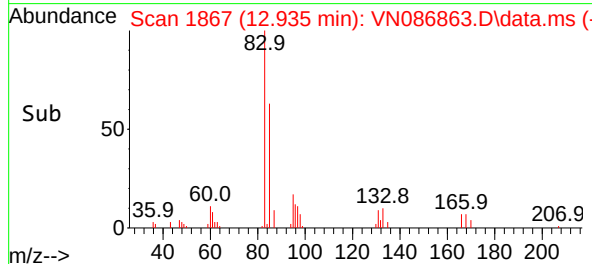
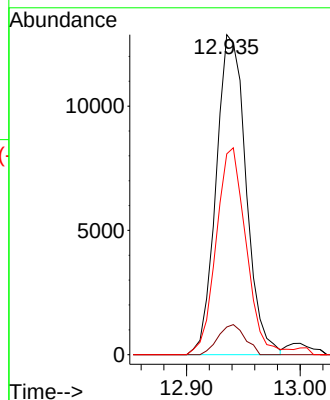
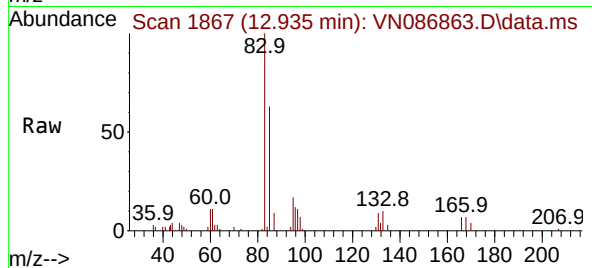
#75
1,1,2-Tetrachloroethane
Concen: 5.262 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 23510
Ion Ratio Lower Upper
83 100
131 8.4 4.9 14.7
85 65.1 32.0 96.0

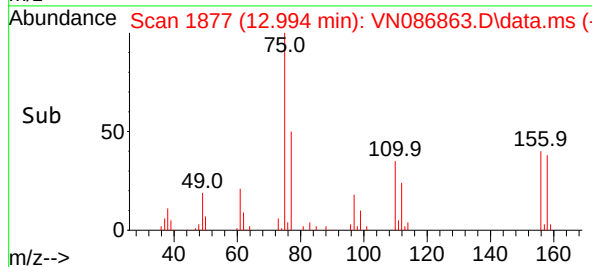
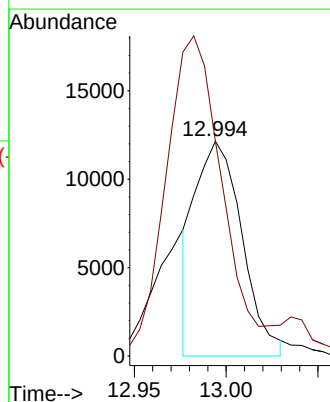
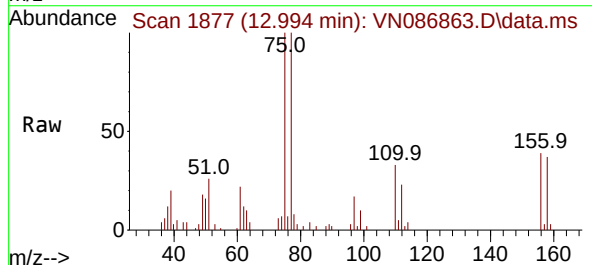
Manual Integrations
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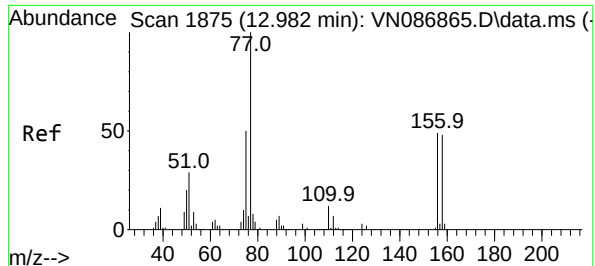
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#76
1,2,3-Trichloropropane
Concen: 4.986 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 75 Resp: 21527
Ion Ratio Lower Upper
75 100
77 179.7 79.3 237.9





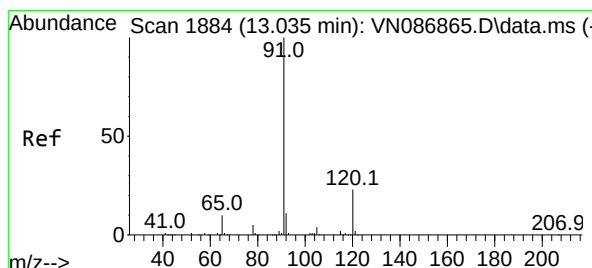
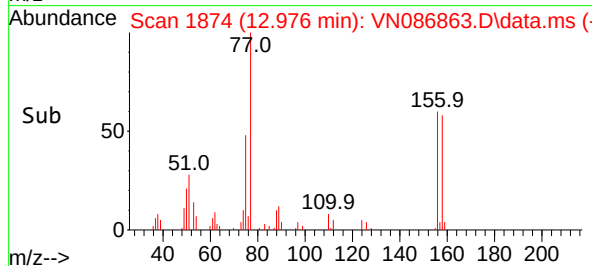
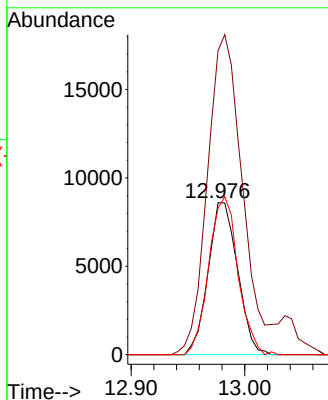
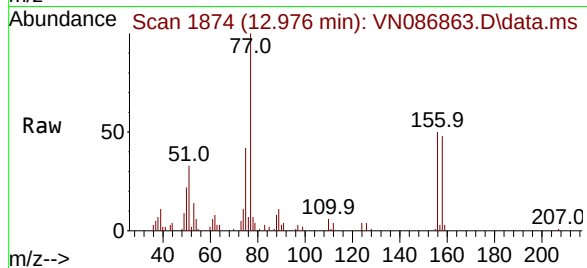
#77
Bromobenzene
Concen: 5.119 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:156 Resp: 1548
Ion Ratio Lower Upper
156 100
77 249.9 117.7 353.1
158 102.9 48.1 144.4

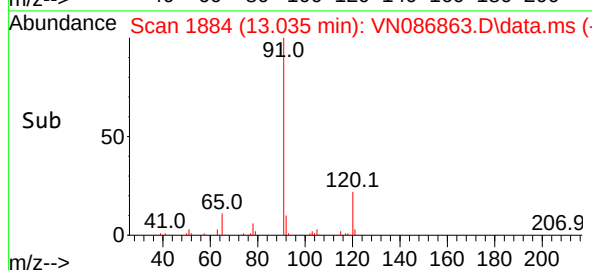
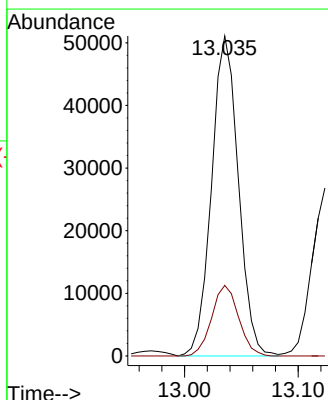
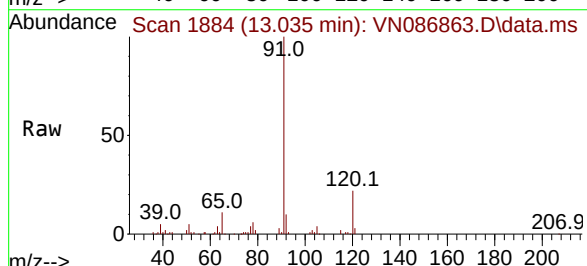
Manual Integrations
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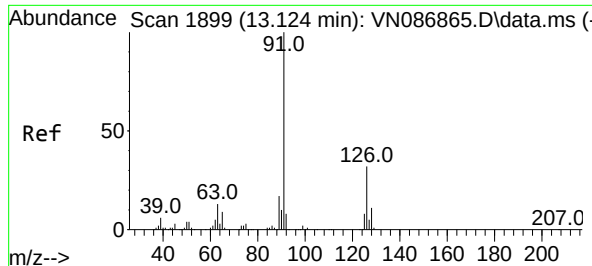
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#78
n-propylbenzene
Concen: 5.226 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion: 91 Resp: 83781
Ion Ratio Lower Upper
91 100
120 22.1 11.4 34.2





#79

2-Chlorotoluene

Concen: 5.128 ug/l

RT: 13.124 min Scan# 1899

Delta R.T. 0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 4929

Ion Ratio Lower Upper

91 100

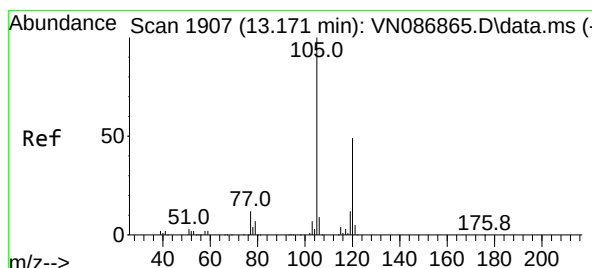
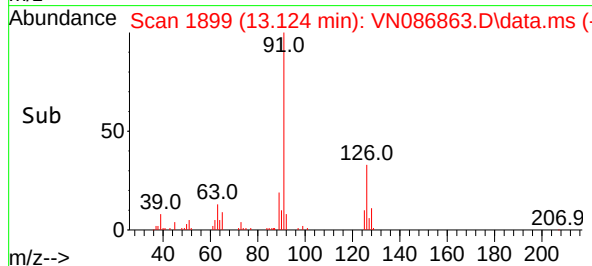
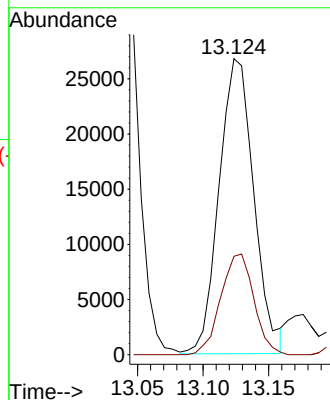
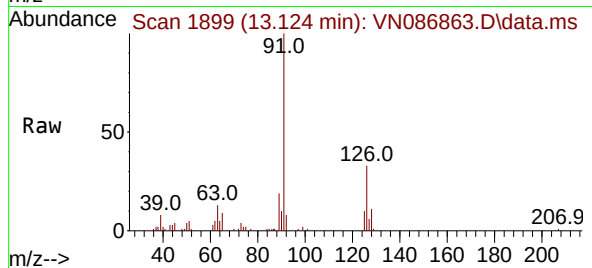
126 32.5 16.2 48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#80

1,3,5-Trimethylbenzene

Concen: 5.139 ug/l

RT: 13.171 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086863.D

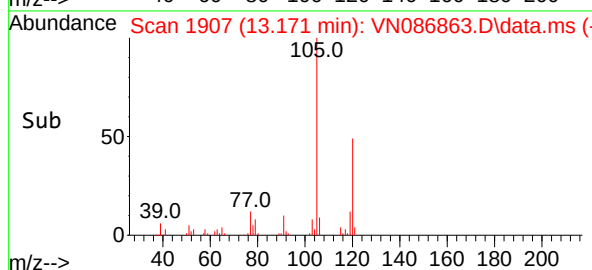
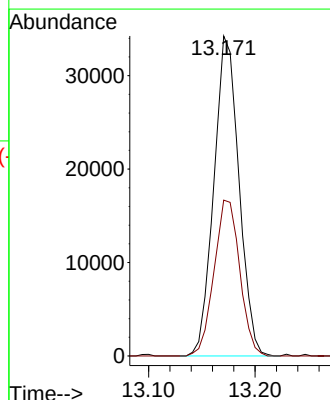
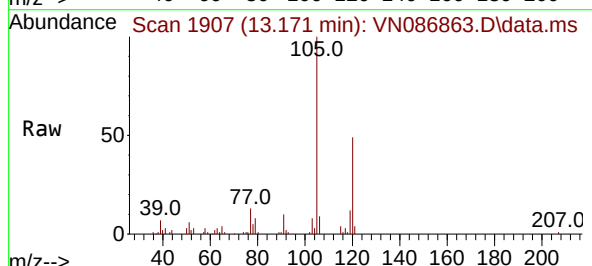
Acq: 06 Jun 2025 13:17

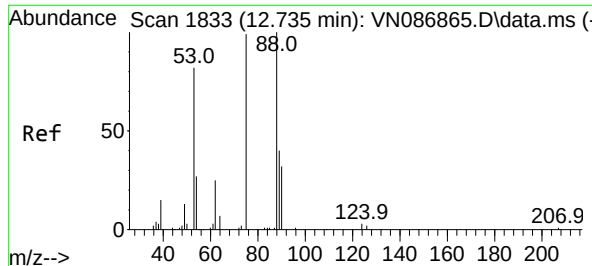
Tgt Ion:105 Resp: 55961

Ion Ratio Lower Upper

105 100

120 49.8 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 4.939 ug/l

RT: 12.741 min Scan# 1834

Delta R.T. 0.006 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

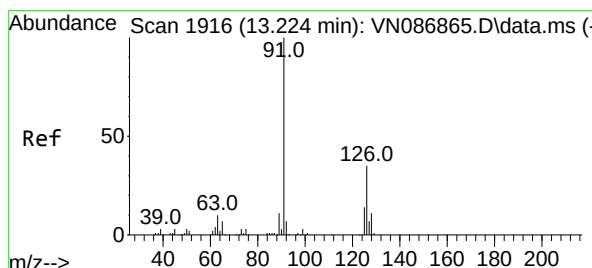
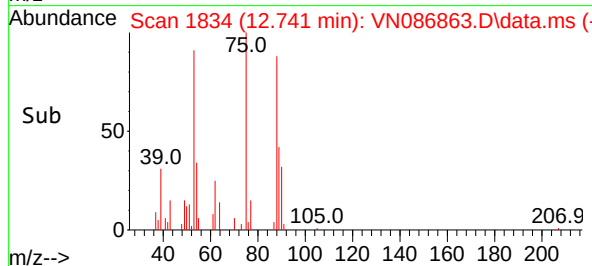
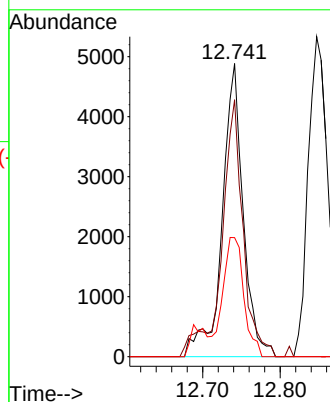
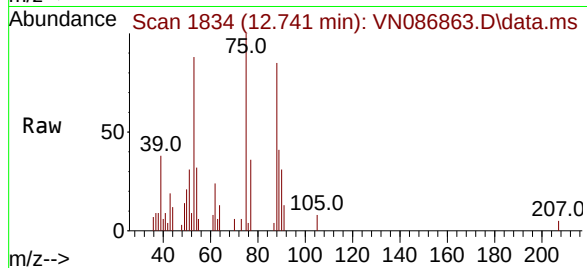
VSTDIC005

Tgt Ion:	75	Resp:	9234
Ion	Ratio	Lower	Upper
75	100		
53	88.6	66.6	99.8
89	41.4	36.7	55.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#82

4-Chlorotoluene

Concen: 5.132 ug/l

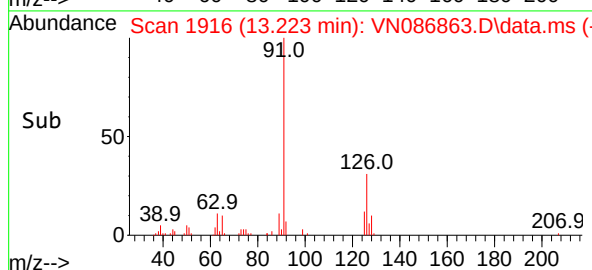
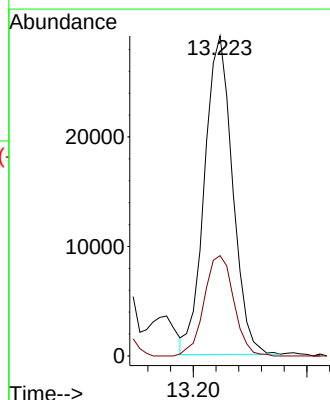
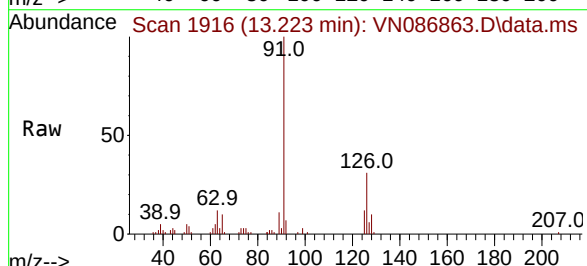
RT: 13.223 min Scan# 1916

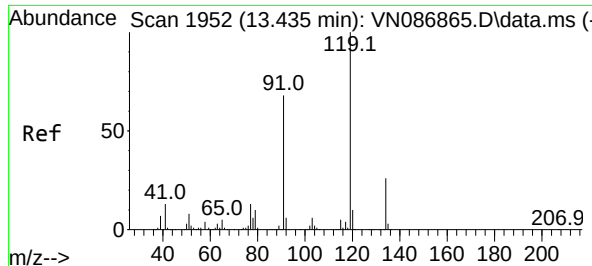
Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Tgt Ion:	91	Resp:	49924
Ion	Ratio	Lower	Upper
91	100		
126	33.3	16.7	50.1





#83

tert-Butylbenzene

Concen: 5.103 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

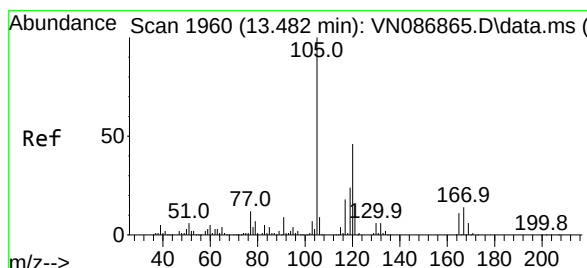
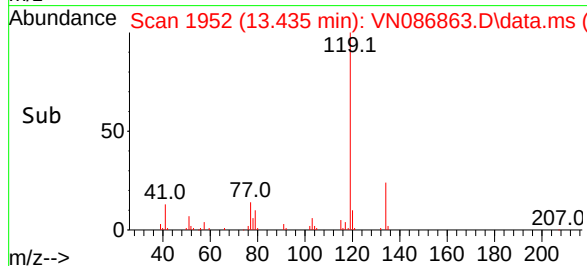
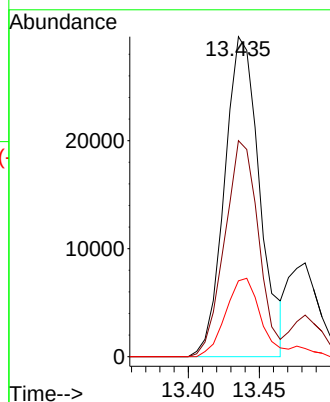
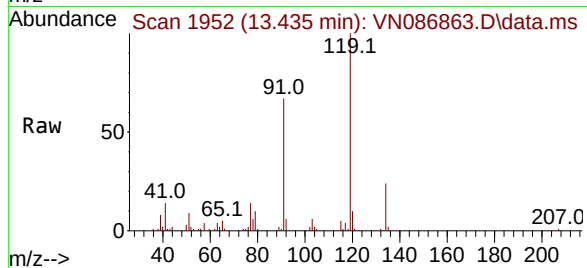
Tgt Ion:	119	Resp:	50874
Ion Ratio	Lower	Upper	
119	100		
91	65.3	32.1	96.5
134	24.5	13.4	40.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#84

1,2,4-Trimethylbenzene

Concen: 5.176 ug/l

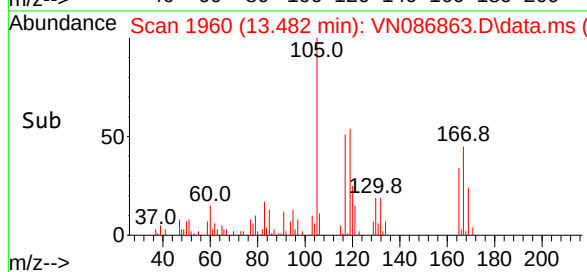
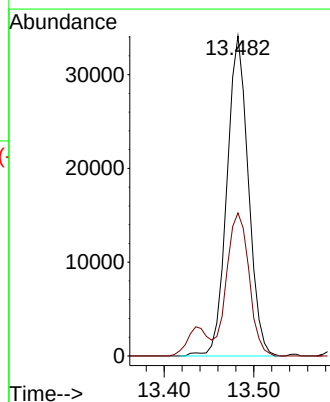
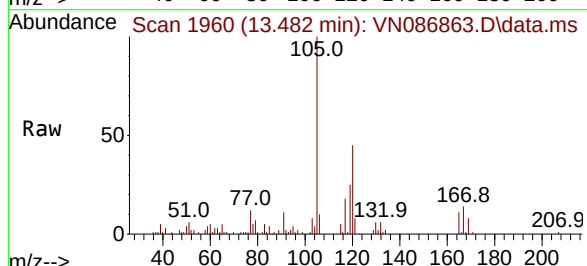
RT: 13.482 min Scan# 1960

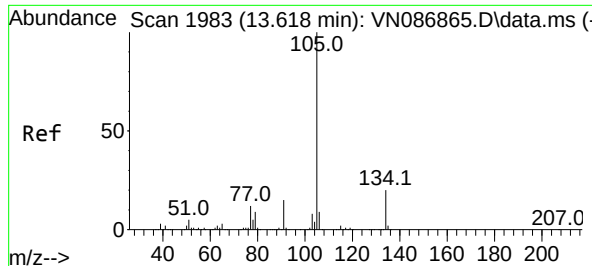
Delta R.T. 0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Tgt Ion:	105	Resp:	56525
Ion Ratio	Lower	Upper	
105	100		
120	46.6	23.2	69.6





#85

sec-Butylbenzene

Concen: 5.161 ug/l

RT: 13.618 min Scan# 1983

Delta R.T. 0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 7471

Ion Ratio Lower Upper

105 100

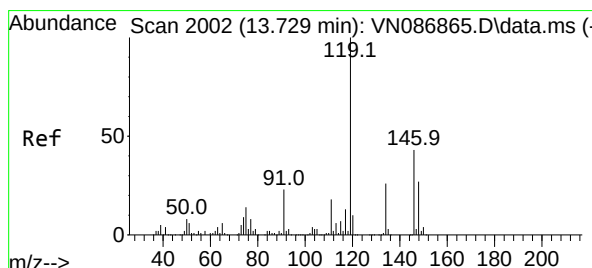
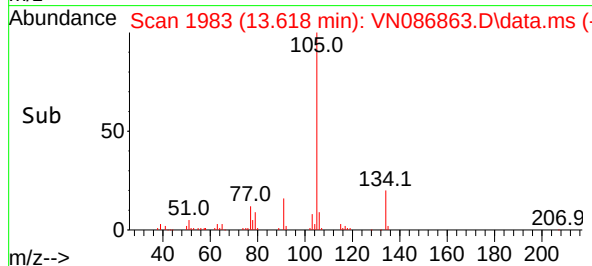
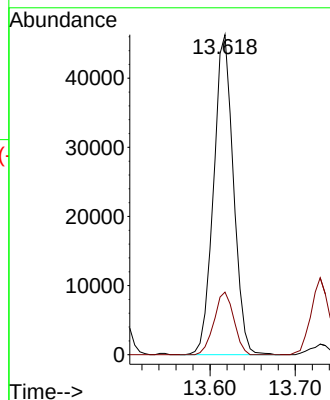
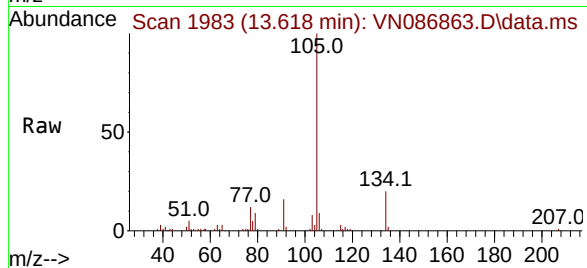
134 19.5 10.0 30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#86

p-Isopropyltoluene

Concen: 5.182 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

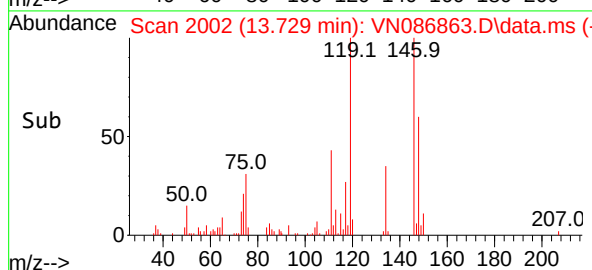
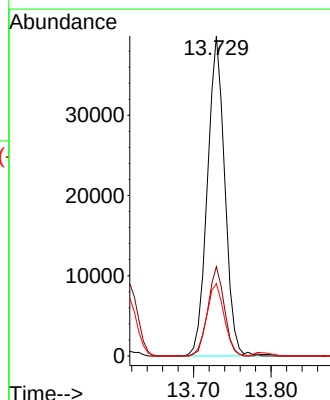
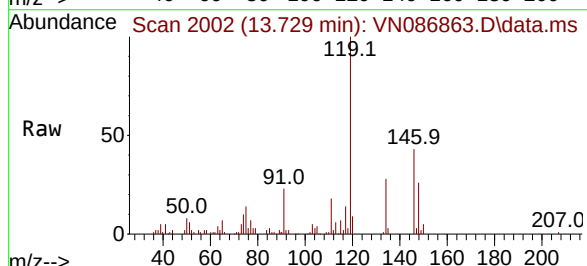
Tgt Ion:119 Resp: 62016

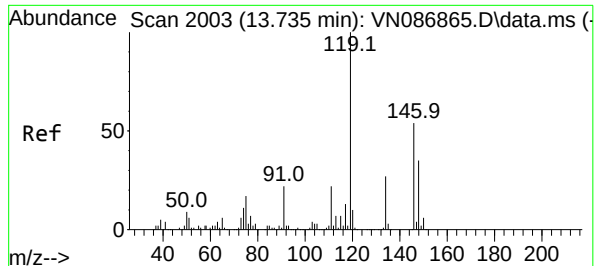
Ion Ratio Lower Upper

119 100

134 26.4 13.5 40.4

91 22.9 11.5 34.4





#87

1,3-Dichlorobenzene

Concen: 5.200 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

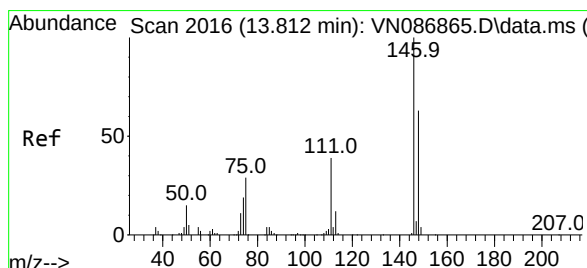
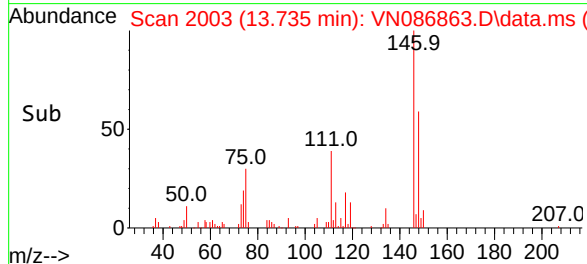
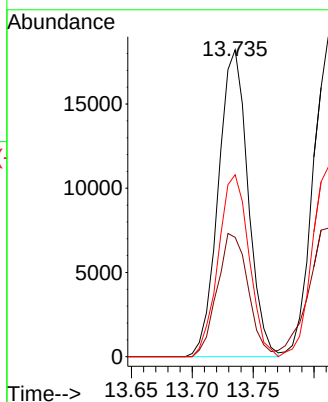
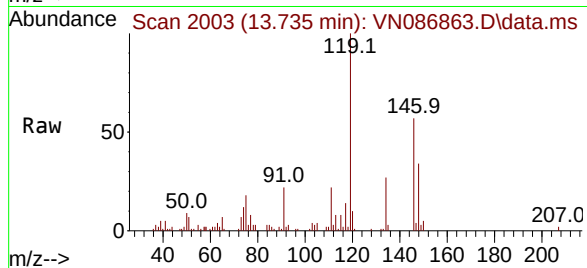
Tgt Ion:	146	Resp:	30949
Ion Ratio	Lower	Upper	
146	100		
111	41.6	20.9	62.8
148	61.1	32.0	96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 5.330 ug/l

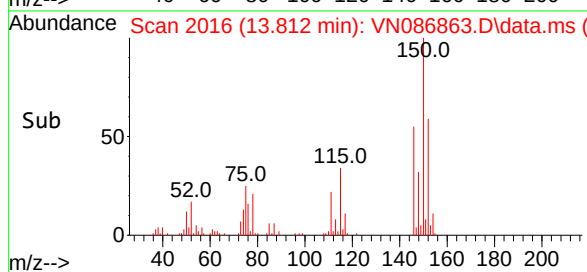
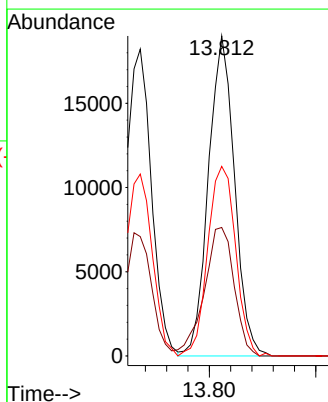
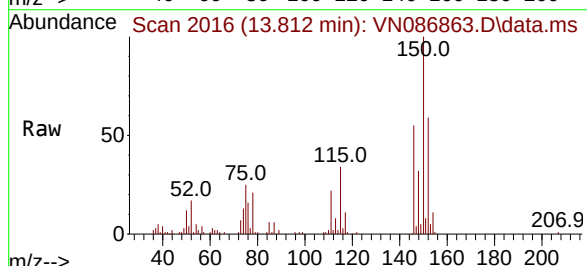
RT: 13.812 min Scan# 2016

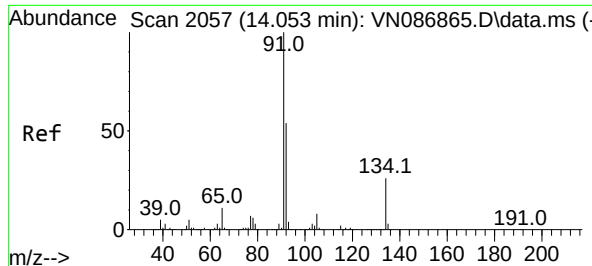
Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Tgt Ion:	146	Resp:	32342
Ion Ratio	Lower	Upper	
146	100		
111	46.1	19.9	59.7
148	63.3	31.8	95.4





#89

n-Butylbenzene

Concen: 5.142 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

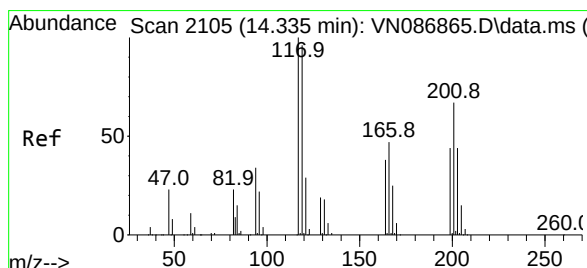
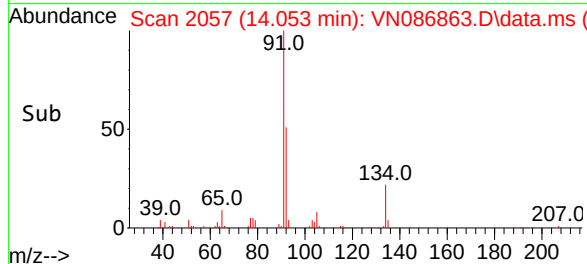
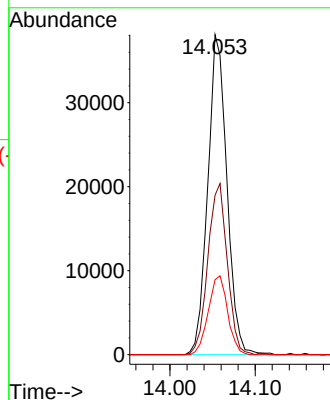
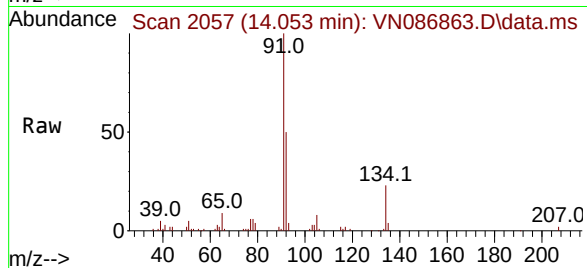
VSTDIC005

Tgt Ion:	91	Resp:	5960
Ion Ratio	Lower	Upper	
91	100		
92	54.1	27.5	82.4
134	24.9	13.0	39.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 4.794 ug/l

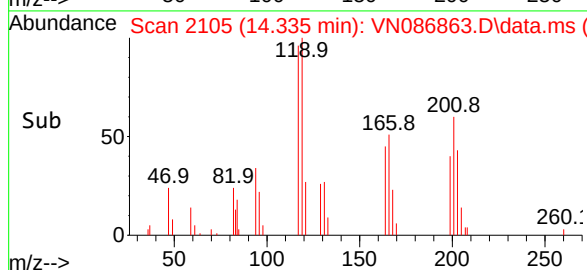
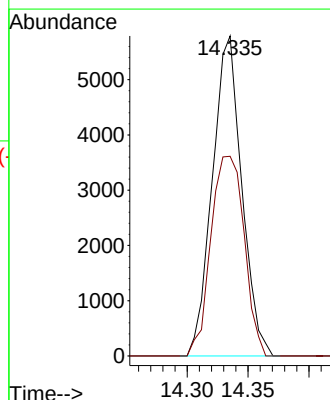
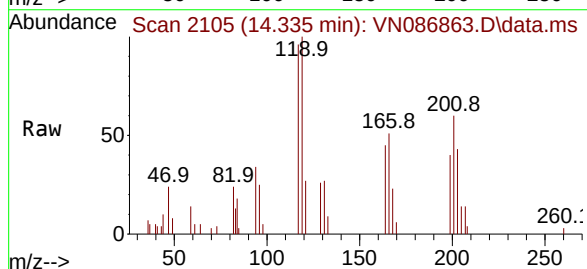
RT: 14.335 min Scan# 2105

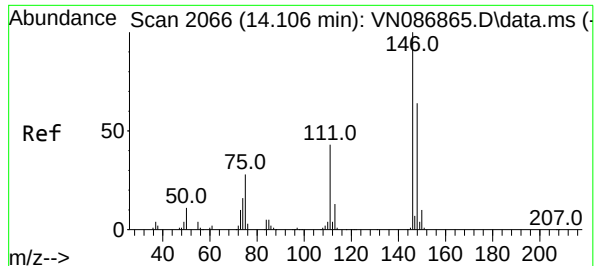
Delta R.T. 0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Tgt Ion:	117	Resp:	9725
Ion Ratio	Lower	Upper	
117	100		
201	70.6	33.2	99.6





#91

1,2-Dichlorobenzene

Concen: 5.228 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

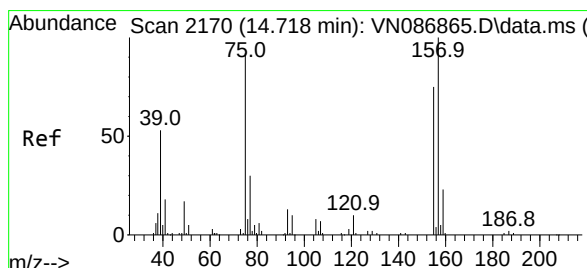
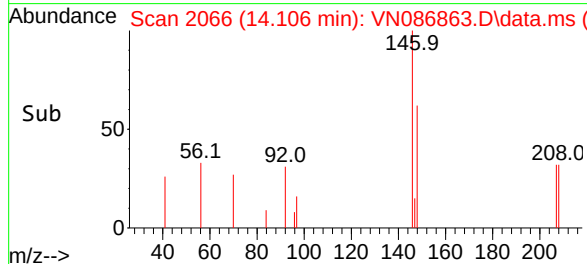
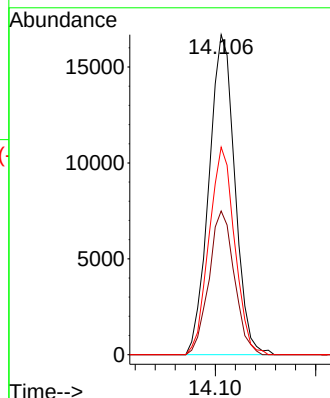
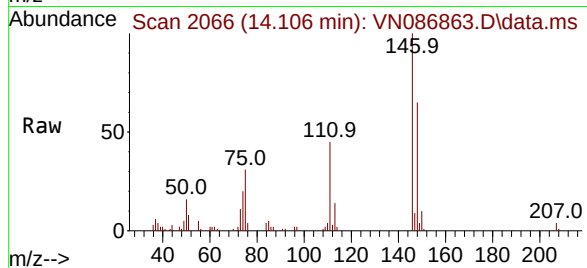
VSTDIC005

Tgt Ion:	146	Resp:	2989
Ion Ratio	Lower	Upper	
146	100		
111	44.0	21.6	64.6
148	64.3	31.7	95.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 5.363 ug/l

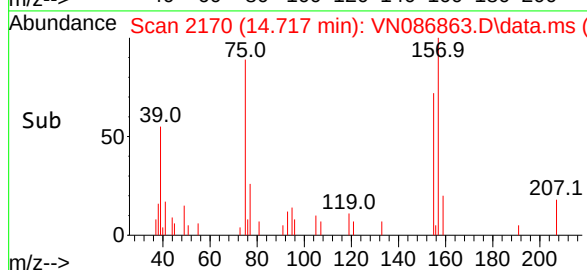
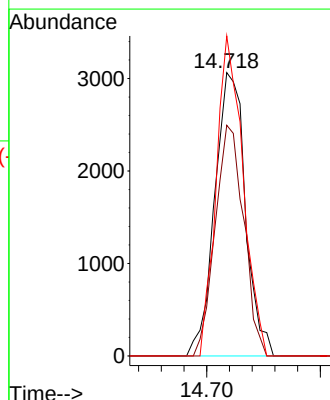
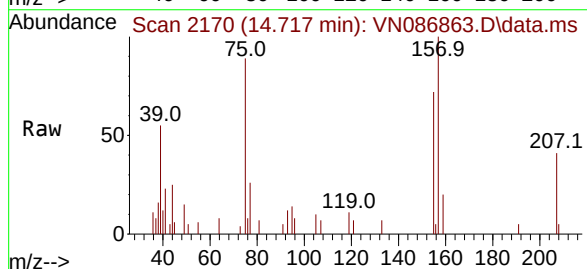
RT: 14.717 min Scan# 2170

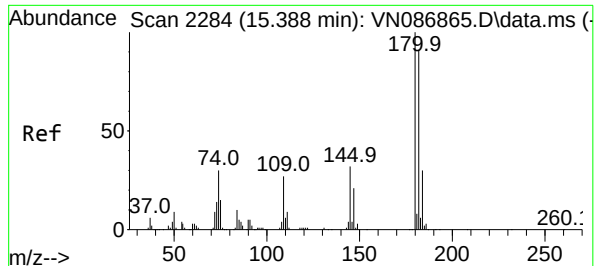
Delta R.T. -0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Tgt Ion:	75	Resp:	5731
Ion Ratio	Lower	Upper	
75	100		
155	76.0	41.1	123.4
157	98.8	52.7	158.1





#93

1,2,4-Trichlorobenzene

Concen: 5.143 ug/l

RT: 15.394 min Scan# 2284

Delta R.T. 0.006 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC005

Tgt Ion:180 Resp: 18778

Ion Ratio Lower Upper

180 100

182 92.6 46.9 140.7

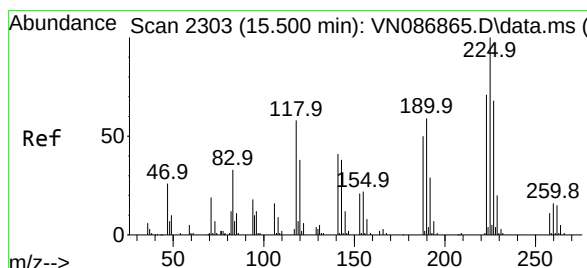
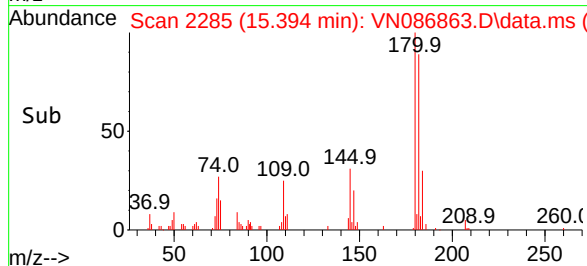
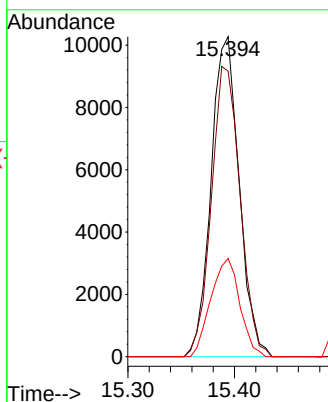
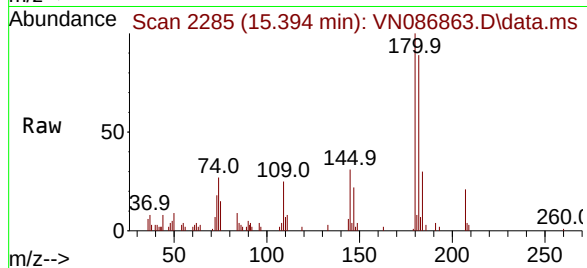
145 31.7 16.0 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#94

Hexachlorobutadiene

Concen: 5.199 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN086863.D

Acq: 06 Jun 2025 13:17

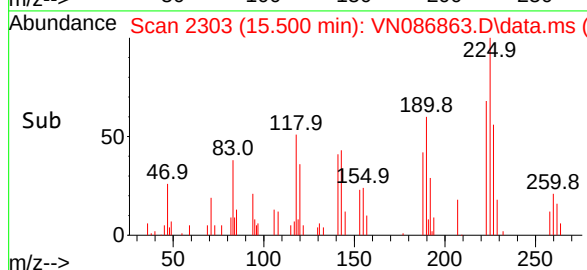
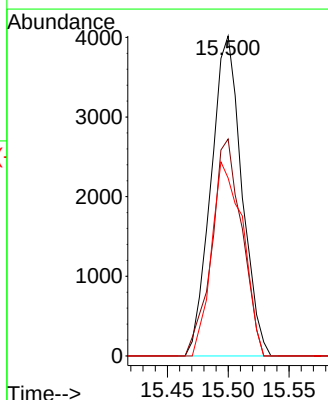
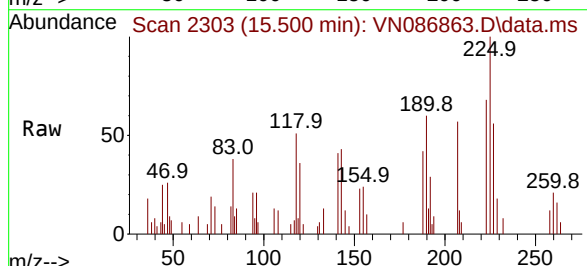
Tgt Ion:225 Resp: 7072

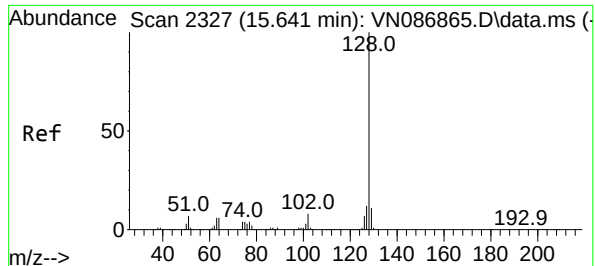
Ion Ratio Lower Upper

225 100

223 66.4 33.5 100.4

227 61.7 31.1 93.5





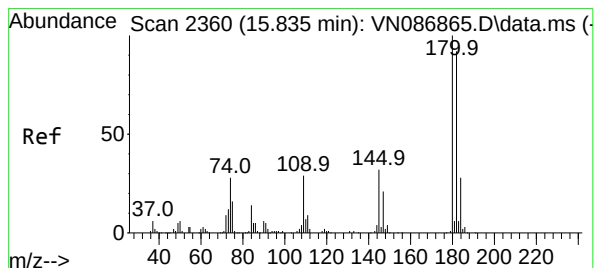
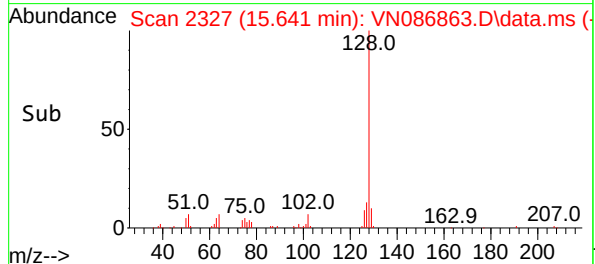
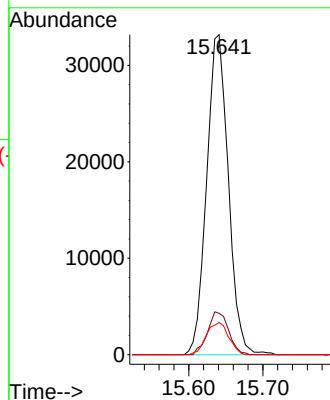
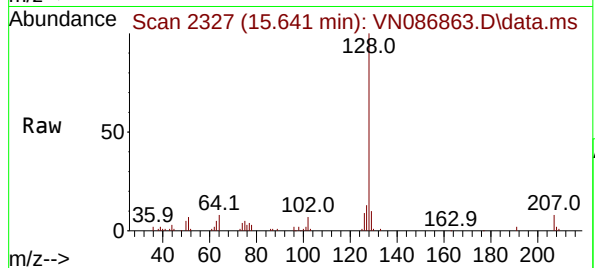
#95
Naphthalene
Concen: 4.965 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC005

Tgt Ion:128 Resp: 6748
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.2
129 10.3 8.8 13.2

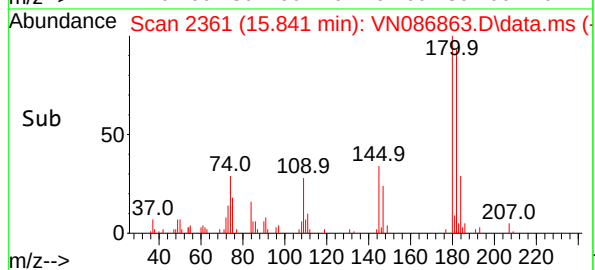
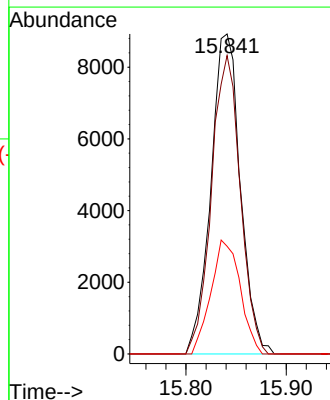
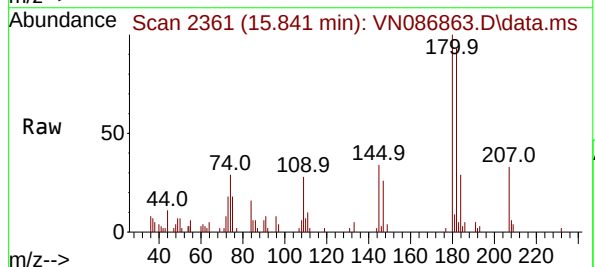
Manual Integrations
APPROVED

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



#96
1,2,3-Trichlorobenzene
Concen: 5.034 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086863.D
Acq: 06 Jun 2025 13:17

Tgt Ion:180 Resp: 18262
Ion Ratio Lower Upper
180 100
182 90.9 47.0 141.0
145 35.3 16.6 49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086864.D
 Acq On : 06 Jun 2025 13:40
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC020

Quant Time: Jun 07 01:56:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

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

Internal Standards						
1) Pentafluorobenzene	8.235	168	224006	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	418154	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	363172	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	181178	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.588	65	63390	21.136	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	42.280%#
35) Dibromofluoromethane	8.177	113	51797	20.902	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	41.800%#
50) Toluene-d8	10.571	98	201268	20.516	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	41.040%#
62) 4-Bromofluorobenzene	12.853	95	74622	20.474	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	40.940%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.159	85	48254	21.605	ug/l	92
3) Chloromethane	2.401	50	57778	20.033	ug/l	93
4) Vinyl Chloride	2.559	62	61254	20.589	ug/l	99
5) Bromomethane	3.006	94	34022	20.435	ug/l	95
6) Chloroethane	3.159	64	39625	20.619	ug/l	99
7) Trichlorofluoromethane	3.524	101	80978	20.832	ug/l	94
8) Diethyl Ether	3.983	74	34288	20.245	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.395	101	50458	20.661	ug/l	98
10) Methyl Iodide	4.612	142	65360	20.646	ug/l	98
11) Tert butyl alcohol	5.547	59	87102	107.031	ug/l	99
12) 1,1-Dichloroethene	4.359	96	50485	20.249	ug/l	96
13) Acrolein	4.200	56	22866	88.767	ug/l	97
14) Allyl chloride	5.047	41	82924	20.055	ug/l	98
15) Acrylonitrile	5.742	53	199498	104.881	ug/l	99
16) Acetone	4.447	43	163979	103.099	ug/l	98
17) Carbon Disulfide	4.736	76	138195	20.038	ug/l	97
18) Methyl Acetate	5.047	43	96547	20.830	ug/l	99
19) Methyl tert-butyl Ether	5.818	73	183780	20.358	ug/l	98
20) Methylene Chloride	5.294	84	57611	19.348	ug/l	98
21) trans-1,2-Dichloroethene	5.806	96	55643	20.059	ug/l	94
22) Diisopropyl ether	6.689	45	182472	20.935	ug/l	98
23) Vinyl Acetate	6.624	43	768556	104.365	ug/l	99
24) 1,1-Dichloroethane	6.583	63	103578	20.650	ug/l	99
25) 2-Butanone	7.494	43	270477	104.621	ug/l	100
26) 2,2-Dichloropropane	7.506	77	69692	17.862	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	68292	20.585	ug/l	98
28) Bromochloromethane	7.824	49	55196	22.381	ug/l	99
29) Tetrahydrofuran	7.853	42	178571	106.031	ug/l	99
30) Chloroform	7.977	83	102615	20.485	ug/l	93
31) Cyclohexane	8.271	56	100026	20.563	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	86810	20.376	ug/l	98
36) 1,1-Dichloropropene	8.383	75	73252	19.838	ug/l	100
37) Ethyl Acetate	7.571	43	96467	20.522	ug/l	98
38) Carbon Tetrachloride	8.377	117	72628	20.034	ug/l	97
39) Methylcyclohexane	9.606	83	98425	19.455	ug/l	99
40) Benzene	8.612	78	241444	19.996	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086864.D
 Acq On : 06 Jun 2025 13:40
 Operator : JC\MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:56:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M

Quant Title : SW846 8260

QLast Update : Sat Jun 07 01:51:02 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.788	41	53244	20.169	ug/l	98
42) 1,2-Dichloroethane	8.677	62	74238	20.270	ug/l	100
43) Isopropyl Acetate	8.694	43	151601	20.094	ug/l	99
44) Trichloroethene	9.359	130	57110	19.946	ug/l	96
45) 1,2-Dichloropropane	9.630	63	59293	20.184	ug/l	97
46) Dibromomethane	9.712	93	40290	20.648	ug/l	98
47) Bromodichloromethane	9.894	83	80353	20.015	ug/l	98
48) Methyl methacrylate	9.682	41	70457	20.290	ug/l	97
49) 1,4-Dioxane	9.706	88	28231	446.886	ug/l #	98
51) 4-Methyl-2-Pentanone	10.447	43	481741	106.066	ug/l	99
52) Toluene	10.635	92	148000	20.056	ug/l	98
53) t-1,3-Dichloropropene	10.841	75	87683	19.532	ug/l	99
54) cis-1,3-Dichloropropene	10.318	75	94315	19.636	ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	57195	20.143	ug/l	99
56) Ethyl methacrylate	10.882	69	94829	20.968	ug/l	98
57) 1,3-Dichloropropane	11.165	76	98205	19.938	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.165	63	278986	103.426	ug/l	99
59) 2-Hexanone	11.206	43	303686	103.803	ug/l	95
60) Dibromochloromethane	11.359	129	59961	20.268	ug/l	99
61) 1,2-Dibromoethane	11.471	107	59139	20.320	ug/l	97
64) Tetrachloroethene	11.106	164	45374	19.742	ug/l	96
65) Chlorobenzene	11.894	112	160803	20.076	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	52069	20.223	ug/l	99
67) Ethyl Benzene	11.965	91	277087	20.083	ug/l	98
68) m/p-Xylenes	12.071	106	215378	40.780	ug/l	100
69) o-Xylene	12.400	106	102050	20.175	ug/l	98
70) Styrene	12.412	104	178061	20.572	ug/l	99
71) Bromoform	12.576	173	40070	21.004	ug/l #	99
73) Isopropylbenzene	12.694	105	264442	20.035	ug/l	100
74) N-amyl acetate	12.523	43	86003	19.633	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.941	83	92264	20.634	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	81846m	18.945	ug/l	
77) Bromobenzene	12.982	156	60877	20.111	ug/l	98
78) n-propylbenzene	13.035	91	322436	20.102	ug/l	100
79) 2-Chlorotoluene	13.123	91	193774	20.144	ug/l	100
80) 1,3,5-Trimethylbenzene	13.170	105	219937	20.183	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	37808	20.209	ug/l	92
82) 4-Chlorotoluene	13.223	91	193544	19.885	ug/l	99
83) tert-Butylbenzene	13.435	119	198303	19.880	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	221990	20.315	ug/l	100
85) sec-Butylbenzene	13.617	105	292563	20.196	ug/l	100
86) p-Isopropyltoluene	13.729	119	240682	20.099	ug/l	100
87) 1,3-Dichlorobenzene	13.735	146	120099	20.166	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	120102	19.780	ug/l	97
89) n-Butylbenzene	14.053	91	227536	19.617	ug/l	100
90) Hexachloroethane	14.335	117	41202	20.299	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	115645	20.212	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	21025	19.661	ug/l	98
93) 1,2,4-Trichlorobenzene	15.388	180	71826	19.659	ug/l	98
94) Hexachlorobutadiene	15.500	225	27887	20.486	ug/l	97
95) Naphthalene	15.641	128	272584	20.043	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	71929	19.815	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086864.D
Acq On : 06 Jun 2025 13:40
Operator : JC\MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

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

Quant Time: Jun 07 01:56:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

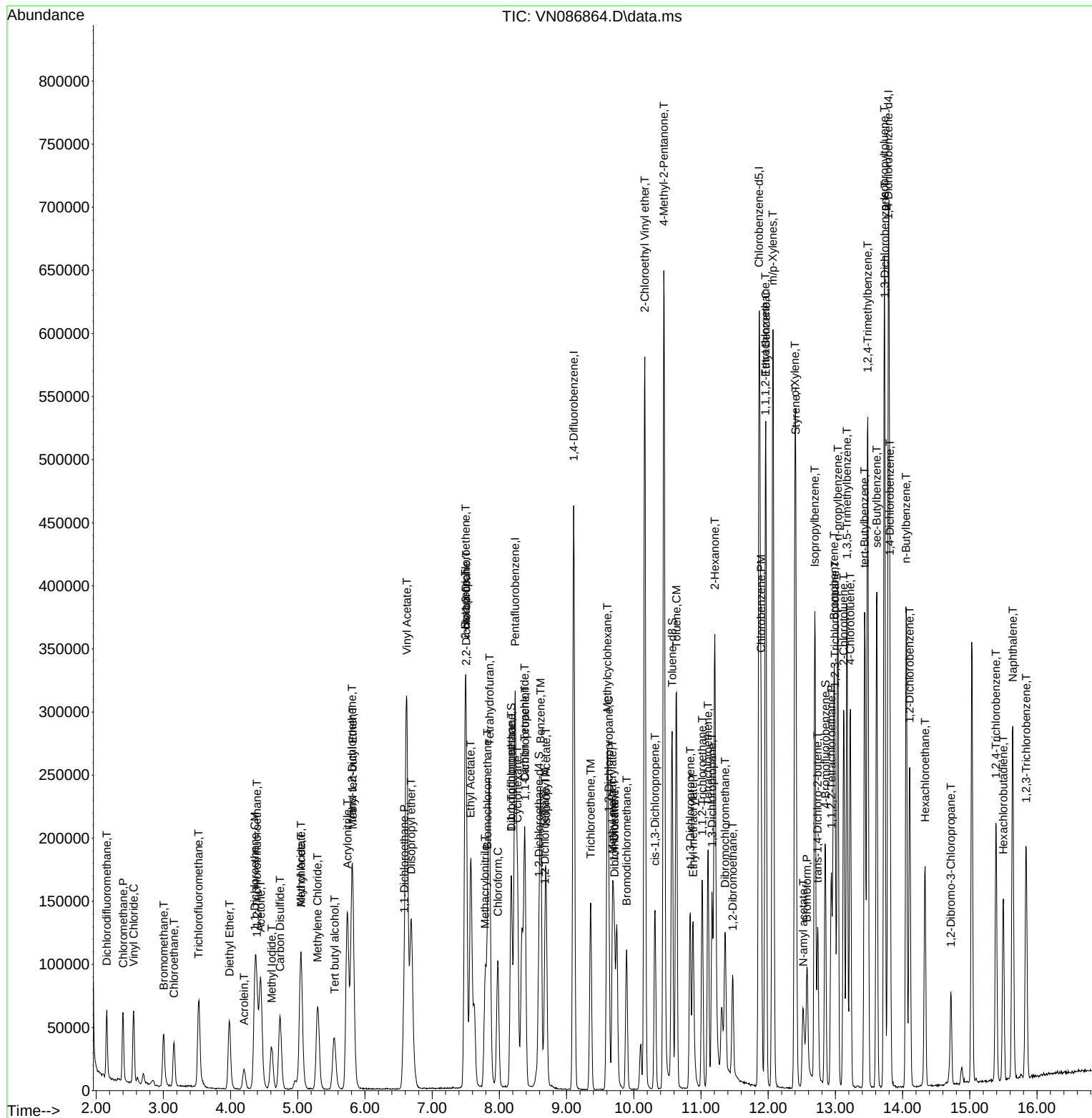
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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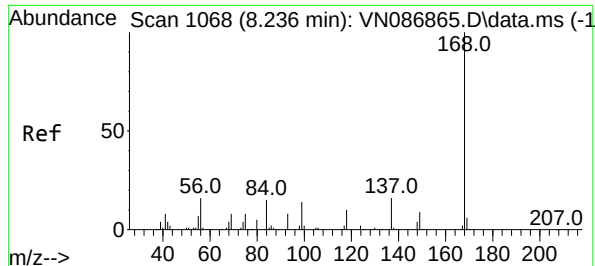
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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





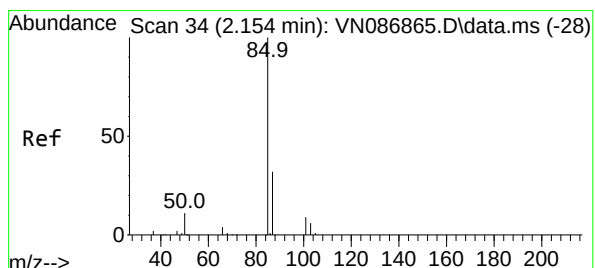
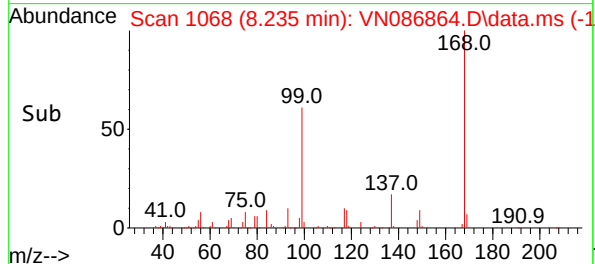
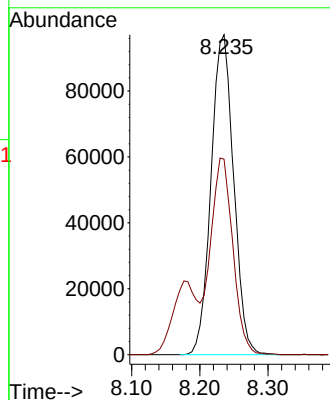
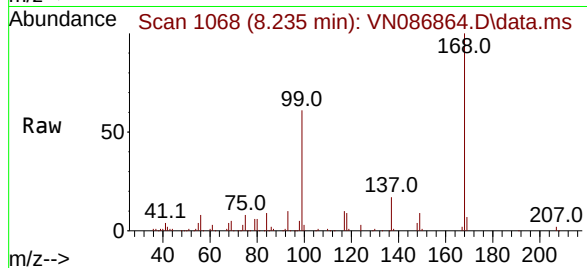
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:168 Resp: 224000
Ion Ratio Lower Upper
168 100
99 61.1 49.1 73.7

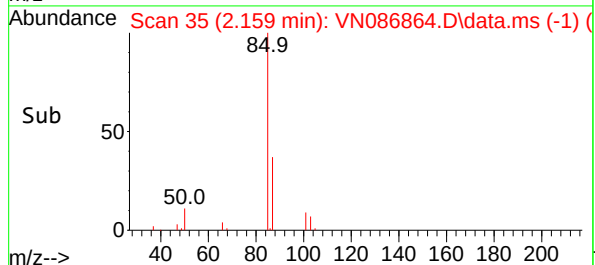
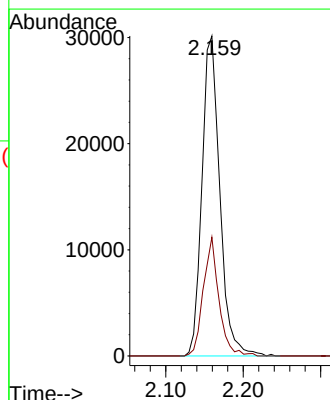
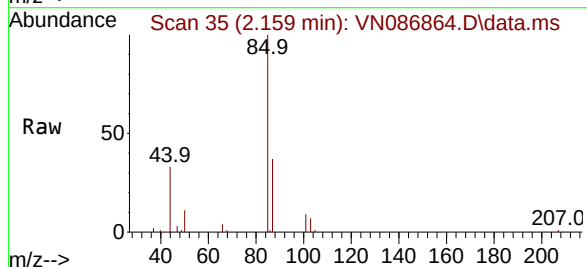
Manual Integrations
APPROVED

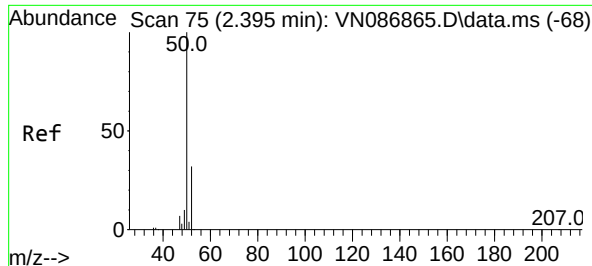
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 21.605 ug/l
RT: 2.159 min Scan# 35
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 85 Resp: 48254
Ion Ratio Lower Upper
85 100
87 37.1 16.2 48.6





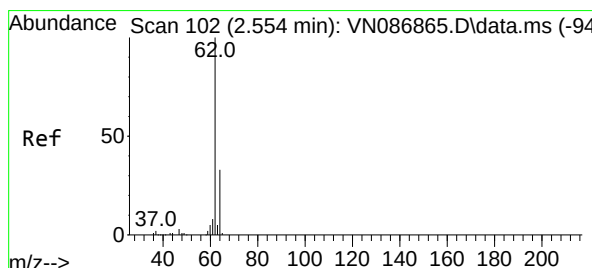
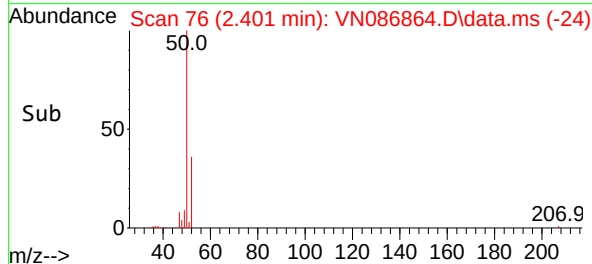
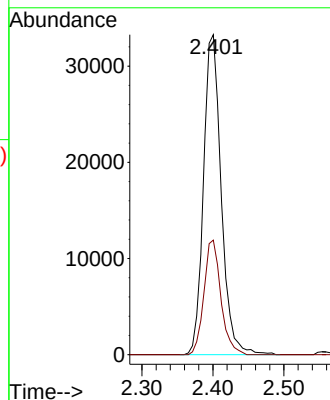
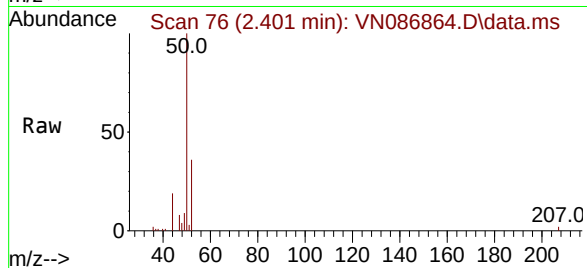
#3
Chloromethane
Concen: 20.033 ug/l
RT: 2.401 min Scan# 75
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 57778
Ion Ratio Lower Upper
50 100
52 35.8 25.7 38.5

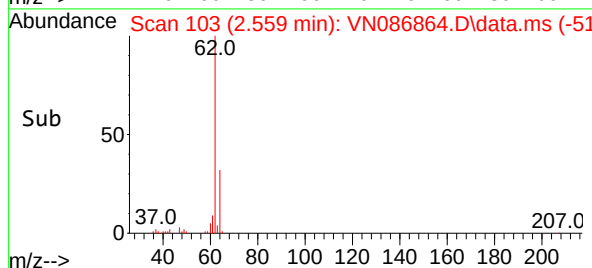
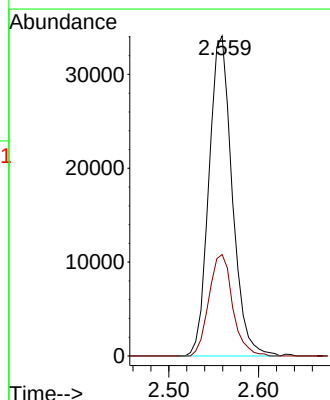
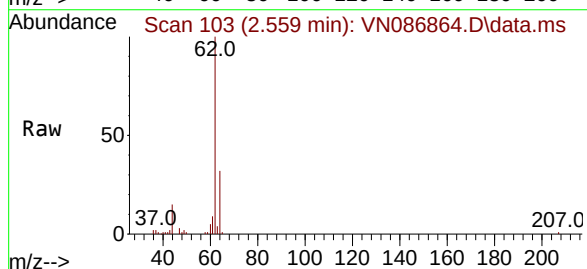
Manual Integrations
APPROVED

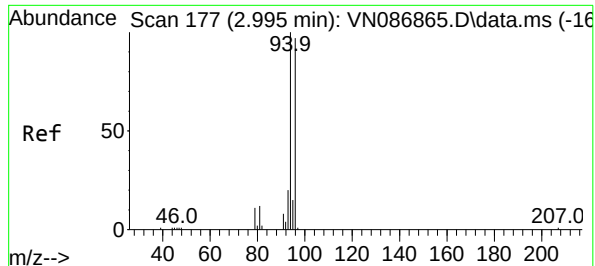
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 20.589 ug/l
RT: 2.559 min Scan# 103
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 62 Resp: 61254
Ion Ratio Lower Upper
62 100
64 31.7 26.0 39.0





#5

Bromomethane

Concen: 20.435 ug/l

RT: 3.006 min Scan# 1

Delta R.T. 0.012 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 94 Resp: 3402

Ion Ratio Lower Upper

94 100

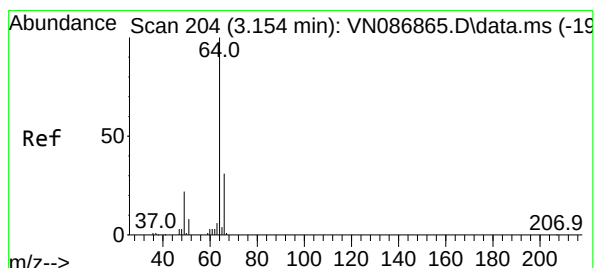
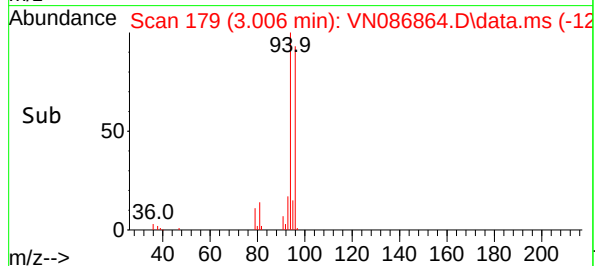
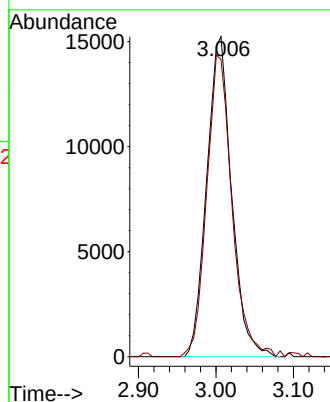
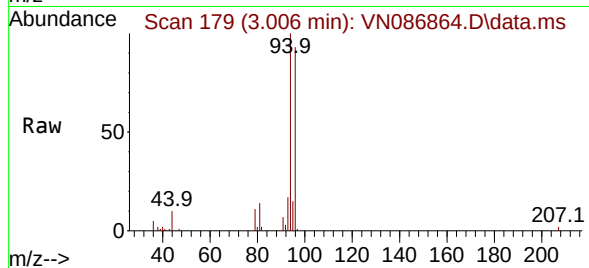
96 92.9 77.9 116.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#6

Chloroethane

Concen: 20.619 ug/l

RT: 3.159 min Scan# 205

Delta R.T. 0.006 min

Lab File: VN086864.D

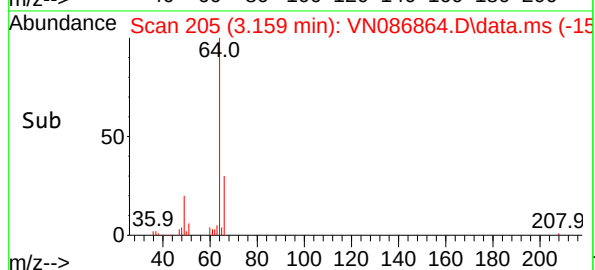
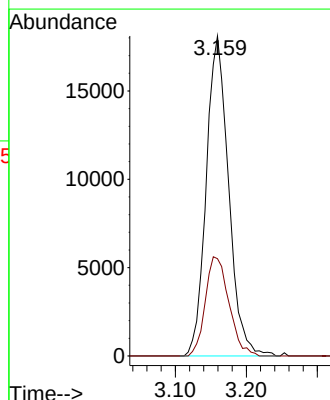
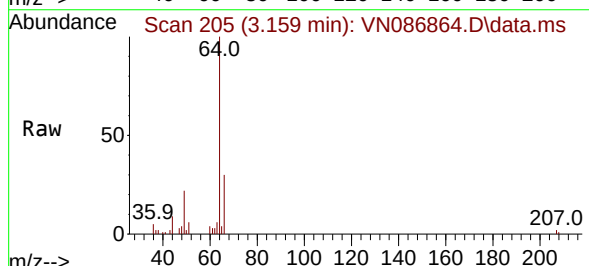
Acq: 06 Jun 2025 13:40

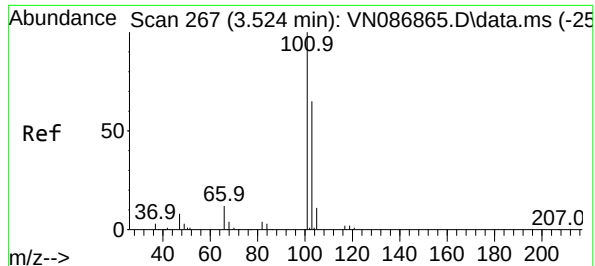
Tgt Ion: 64 Resp: 39625

Ion Ratio Lower Upper

64 100

66 30.4 24.6 36.8





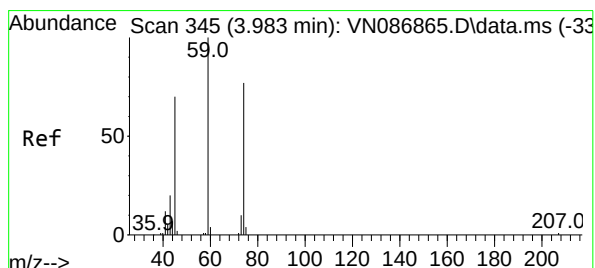
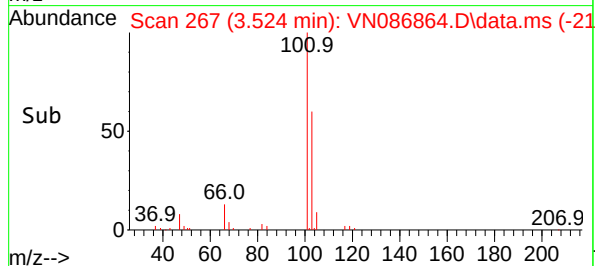
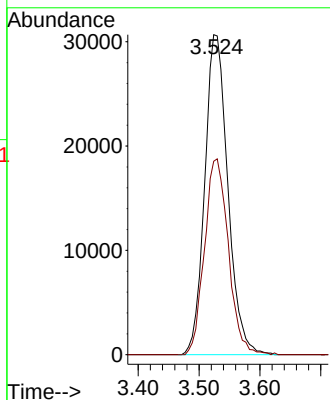
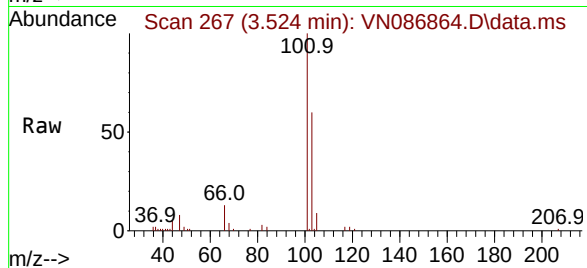
#7
Trichlorofluoromethane
Concen: 20.832 ug/l
RT: 3.524 min Scan# 207
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 80978
Ion Ratio Lower Upper
101 100
103 60.4 52.2 78.2

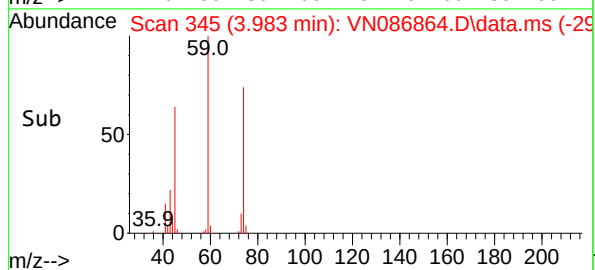
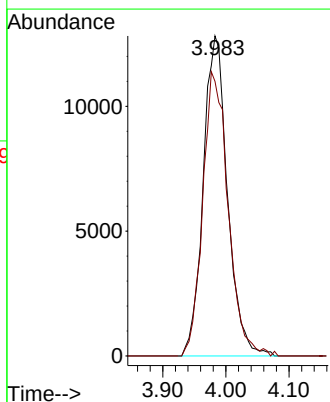
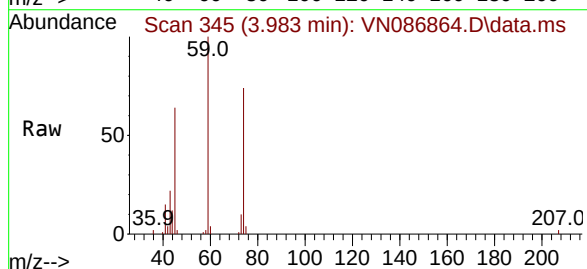
Manual Integrations
APPROVED

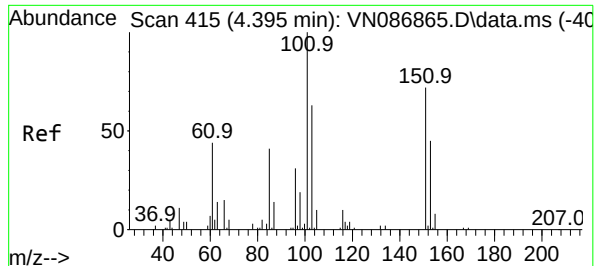
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#8
Diethyl Ether
Concen: 20.245 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 74 Resp: 34288
Ion Ratio Lower Upper
74 100
45 92.9 45.5 136.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.661 ug/l

RT: 4.395 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

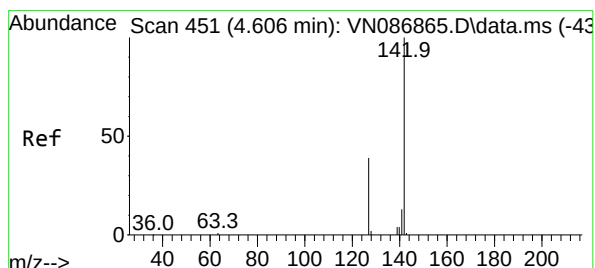
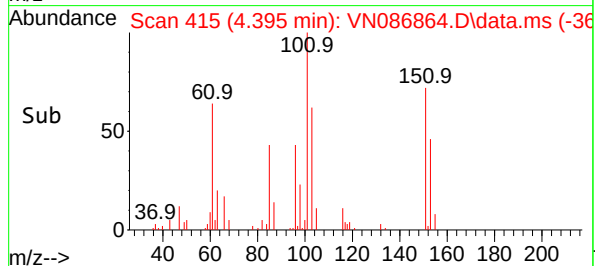
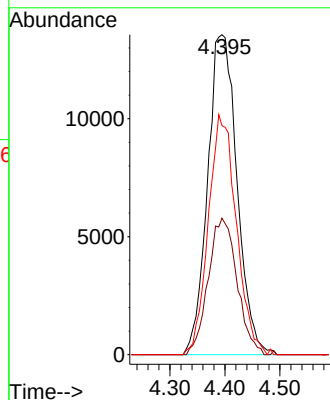
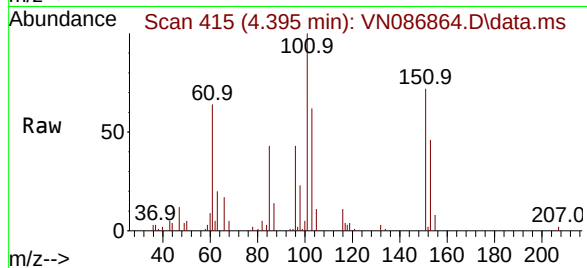
VSTDICC020

Tgt Ion:	101	Resp:	5045
Ion	Ratio	Lower	Upper
101	100		
85	41.7	33.8	50.8
151	71.3	58.7	88.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#10

Methyl Iodide

Concen: 20.646 ug/l

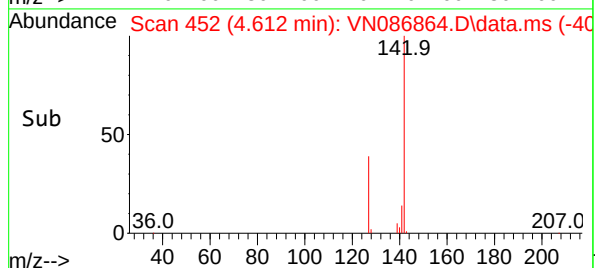
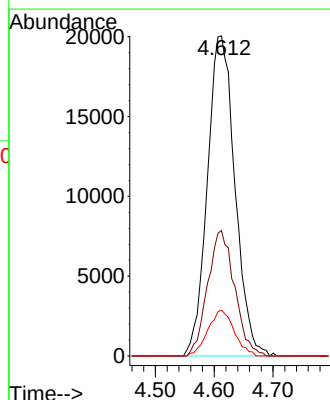
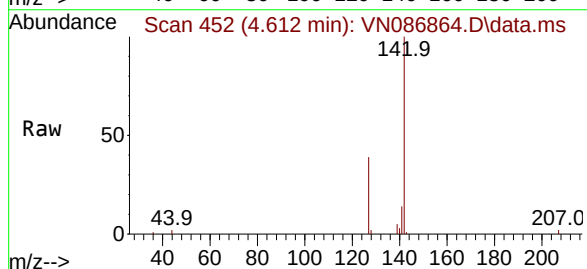
RT: 4.612 min Scan# 452

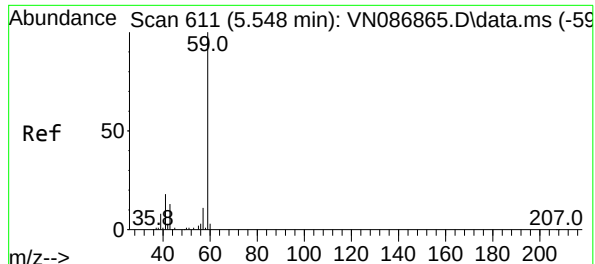
Delta R.T. 0.006 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Tgt Ion:	142	Resp:	65360
Ion	Ratio	Lower	Upper
142	100		
127	39.2	30.9	46.3
141	14.3	10.4	15.6





#11

Tert butyl alcohol

Concen: 107.031 ug/l

RT: 5.547 min Scan# 611

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 59 Resp: 8710

Ion Ratio Lower Upper

59 100

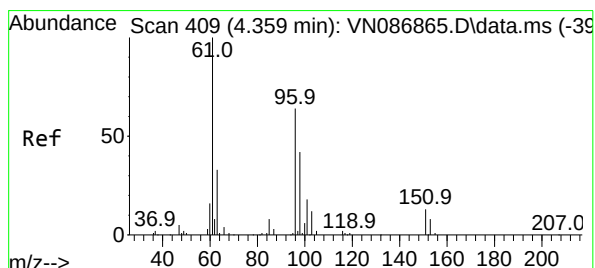
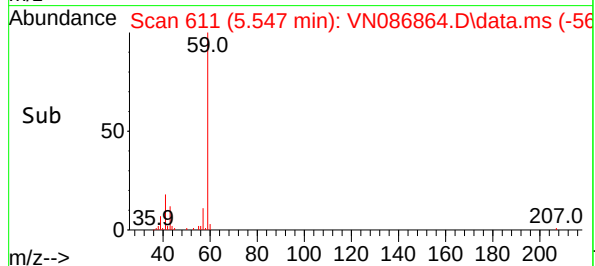
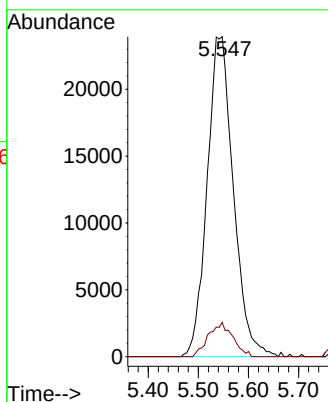
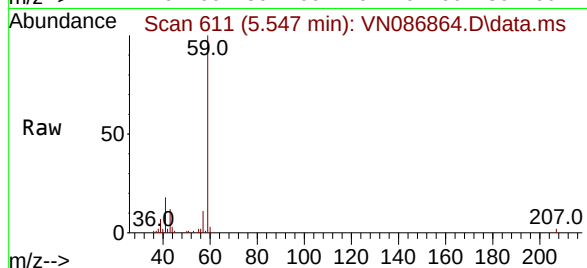
57 9.9 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#12

1,1-Dichloroethene

Concen: 20.249 ug/l

RT: 4.359 min Scan# 409

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

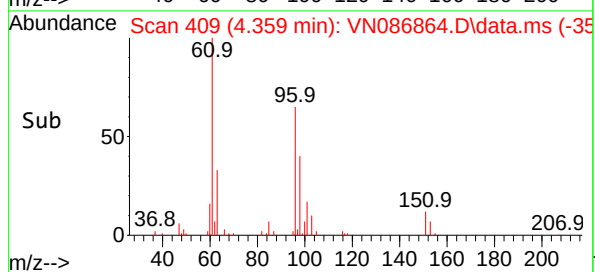
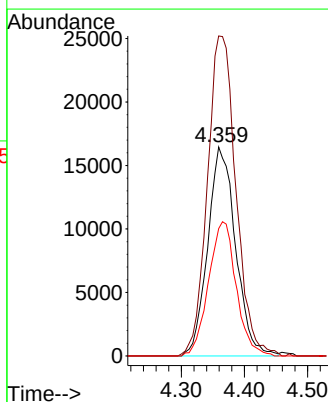
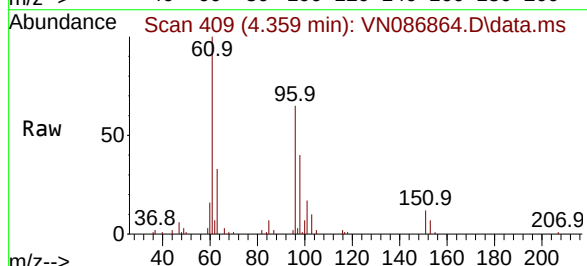
Tgt Ion: 96 Resp: 50485

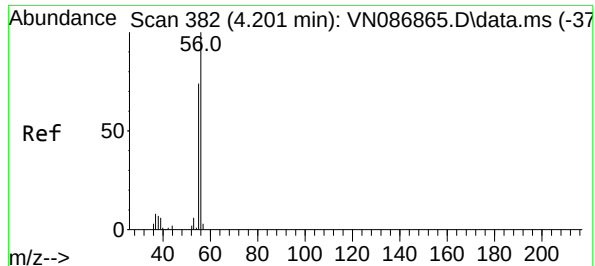
Ion Ratio Lower Upper

96 100

61 153.1 125.8 188.6

98 61.0 52.5 78.7





#13

Acrolein

Concen: 88.767 ug/l

RT: 4.200 min Scan# 382

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 2286

Ion Ratio Lower Upper

56 100

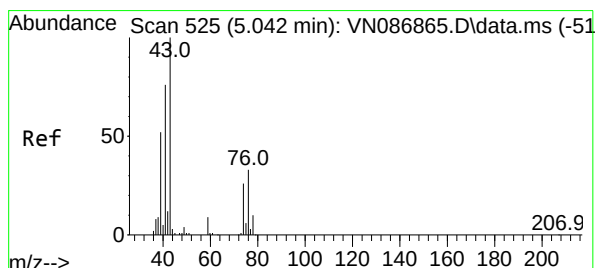
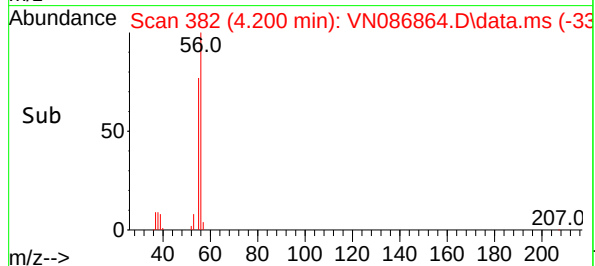
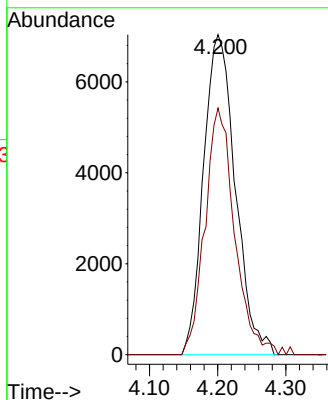
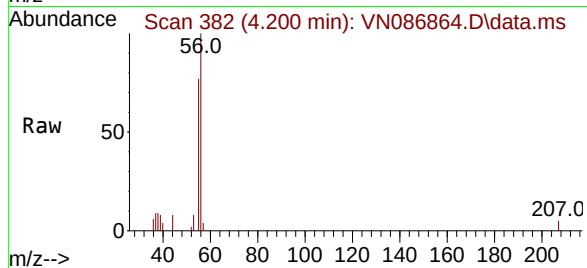
55 71.6 55.6 83.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 20.055 ug/l

RT: 5.047 min Scan# 526

Delta R.T. 0.006 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

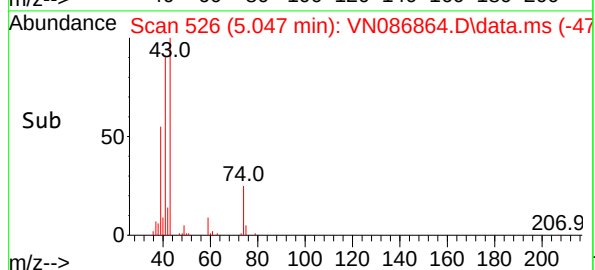
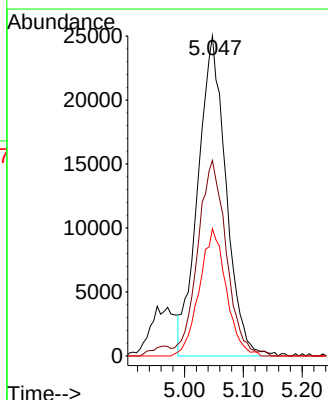
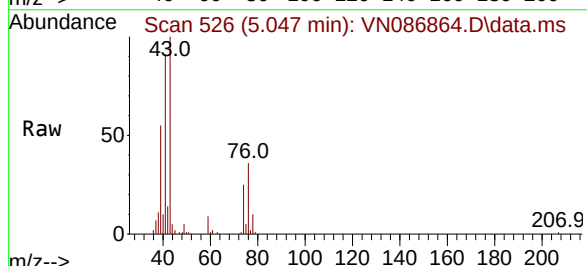
Tgt Ion: 41 Resp: 82924

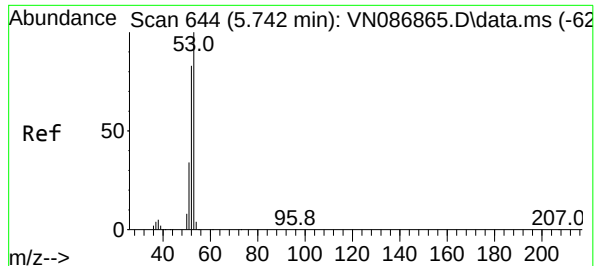
Ion Ratio Lower Upper

41 100

39 62.6 51.3 76.9

76 38.1 31.4 47.0





#15

Acrylonitrile

Concen: 104.881 ug/l

RT: 5.742 min Scan# 644

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 53 Resp: 199498

Ion Ratio Lower Upper

53 100

52 80.3 65.0 97.6

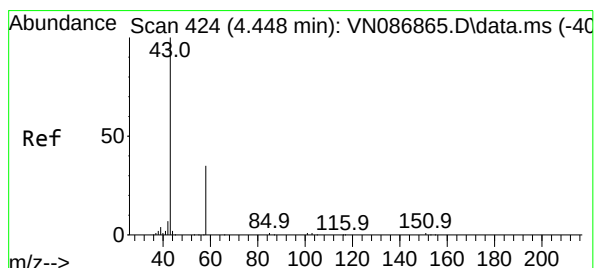
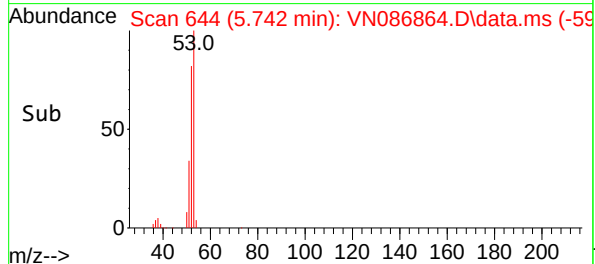
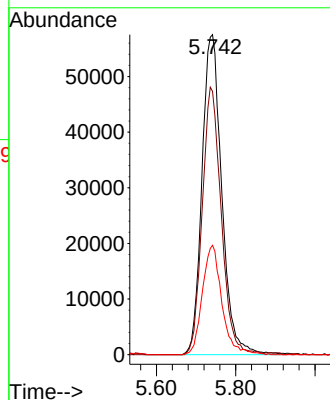
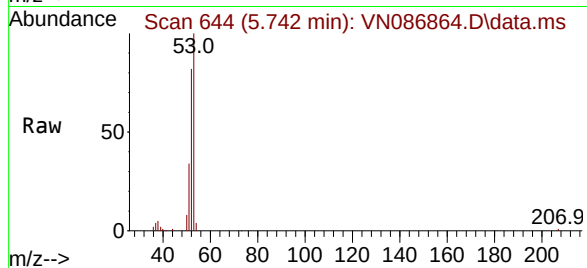
51 33.7 27.2 40.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#16

Acetone

Concen: 103.099 ug/l

RT: 4.447 min Scan# 424

Delta R.T. -0.000 min

Lab File: VN086864.D

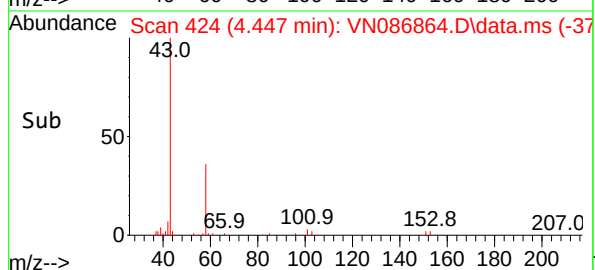
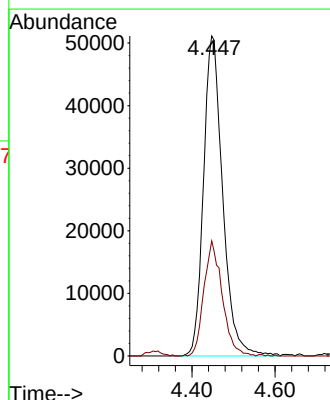
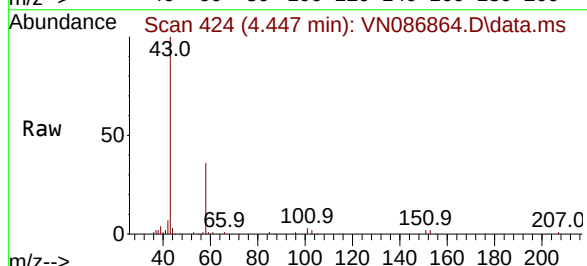
Acq: 06 Jun 2025 13:40

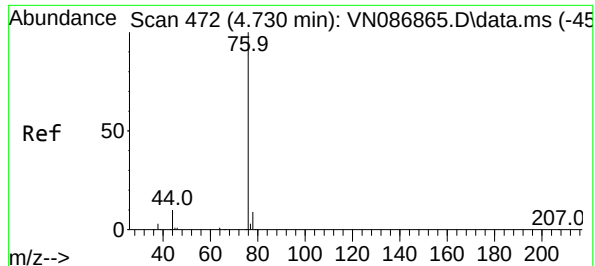
Tgt Ion: 43 Resp: 163979

Ion Ratio Lower Upper

43 100

58 35.9 28.0 42.0





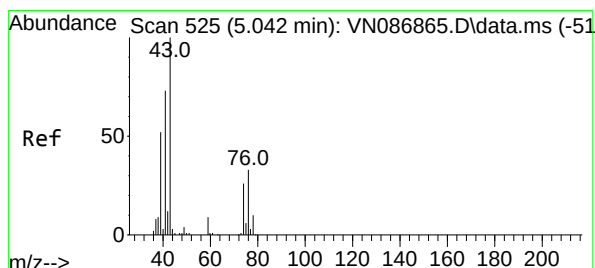
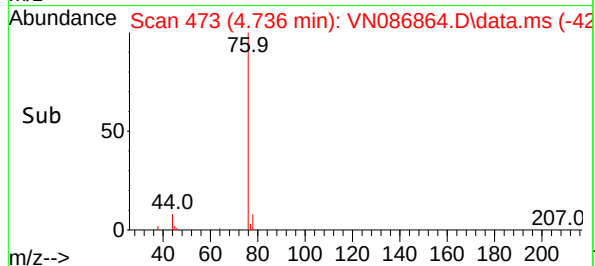
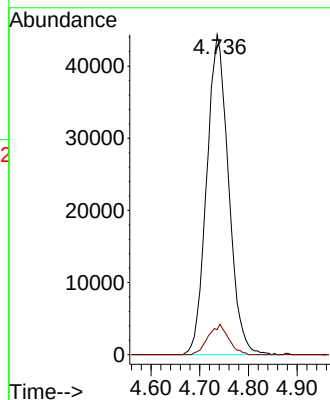
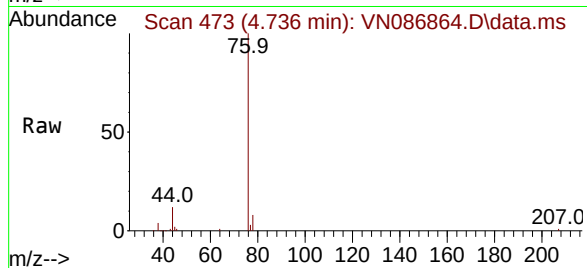
#17
Carbon Disulfide
Concen: 20.038 ug/l
RT: 4.736 min Scan# 473
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 13819
Ion Ratio Lower Upper
76 100
78 7.8 7.3 10.9

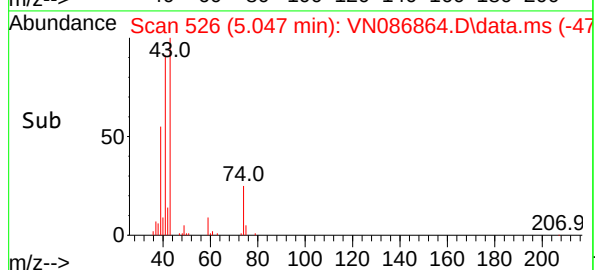
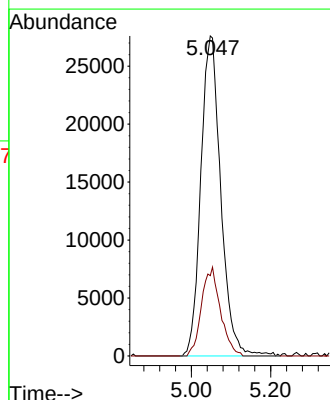
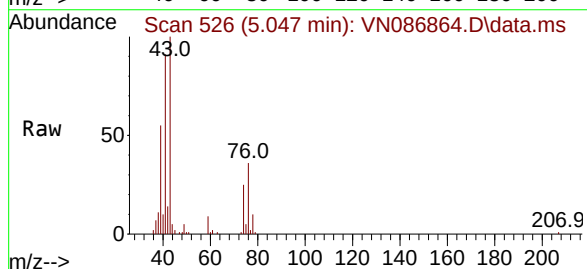
Manual Integrations
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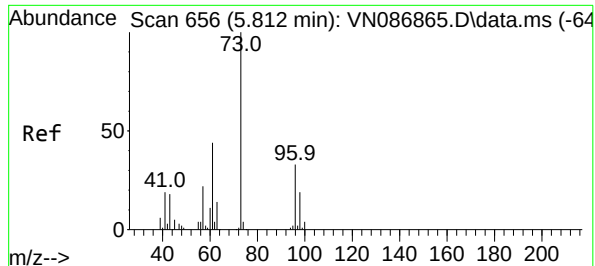
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#18
Methyl Acetate
Concen: 20.830 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 43 Resp: 96547
Ion Ratio Lower Upper
43 100
74 26.2 20.7 31.1





#19

Methyl tert-butyl Ether

Concen: 20.358 ug/l

RT: 5.818 min Scan# 656

Delta R.T. 0.006 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 73 Resp: 183780

Ion Ratio Lower Upper

73 100

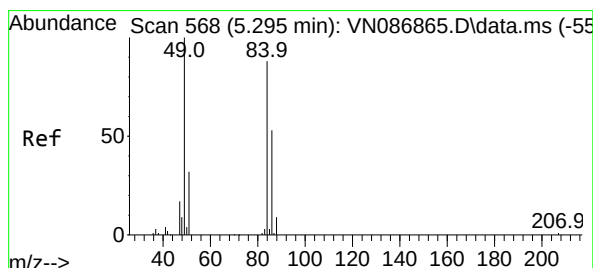
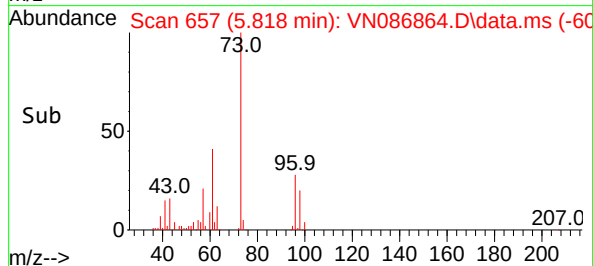
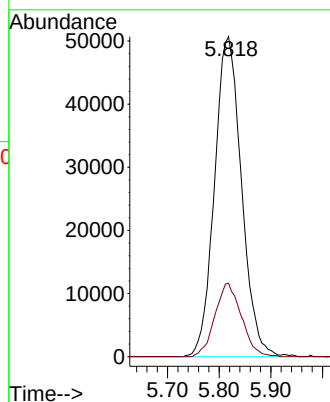
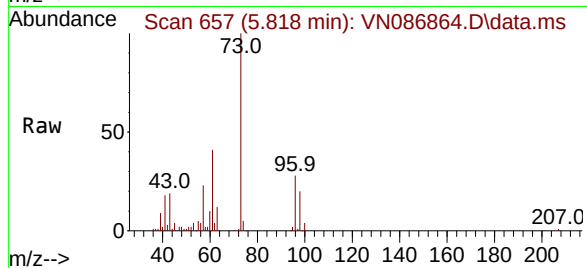
57 22.9 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#20

Methylene Chloride

Concen: 19.348 ug/l

RT: 5.294 min Scan# 568

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Tgt Ion: 84 Resp: 57611

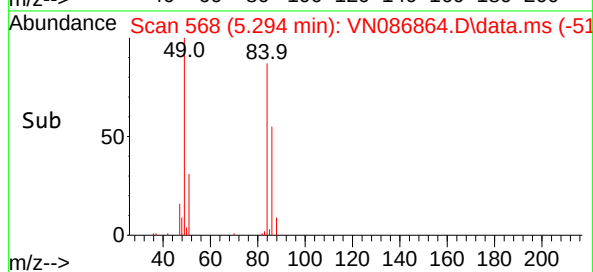
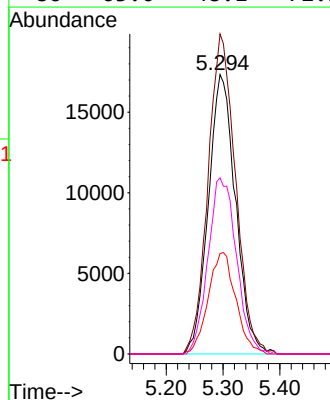
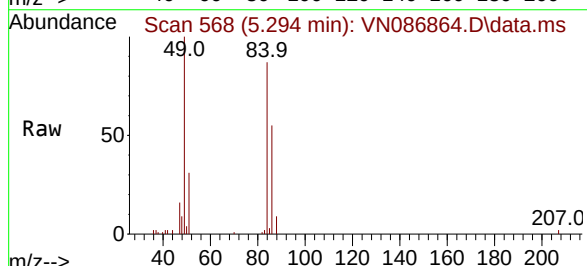
Ion Ratio Lower Upper

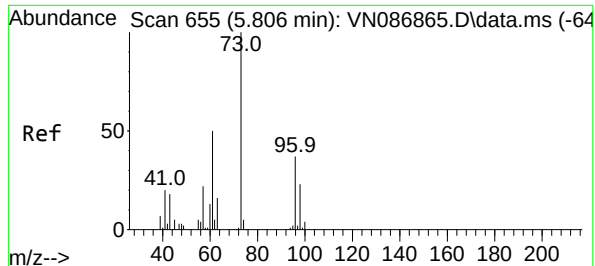
84 100

49 114.5 90.5 135.7

51 35.9 28.5 42.7

86 63.0 48.1 72.1





#21

trans-1,2-Dichloroethene

Concen: 20.059 ug/l

RT: 5.806 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 96 Resp: 5564

Ion Ratio Lower Upper

96 100

61 126.9 109.2 163.8

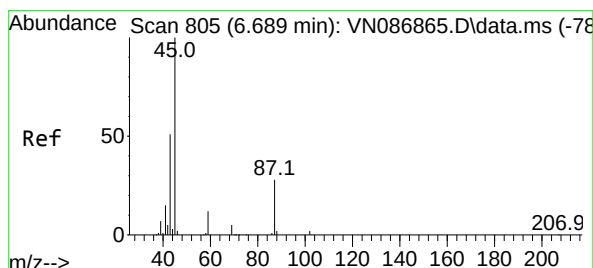
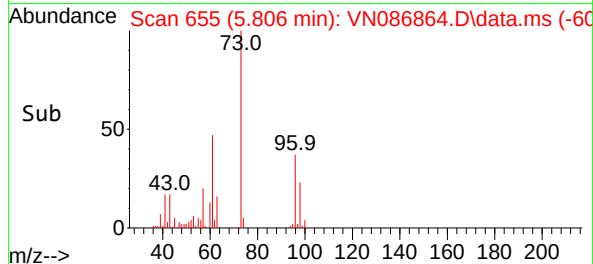
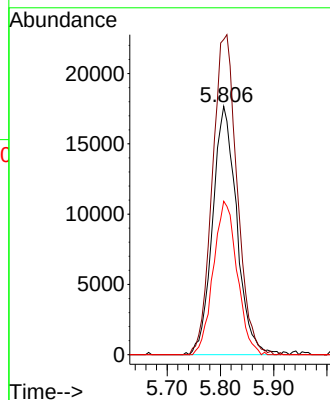
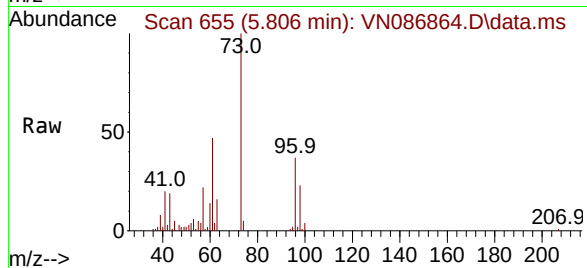
98 61.8 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#22

Diisopropyl ether

Concen: 20.935 ug/l

RT: 6.689 min Scan# 805

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Tgt Ion: 45 Resp: 182472

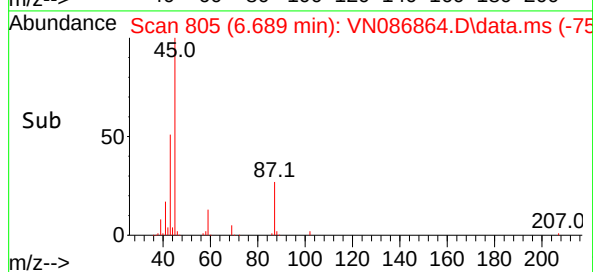
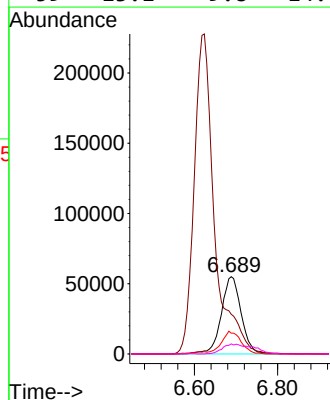
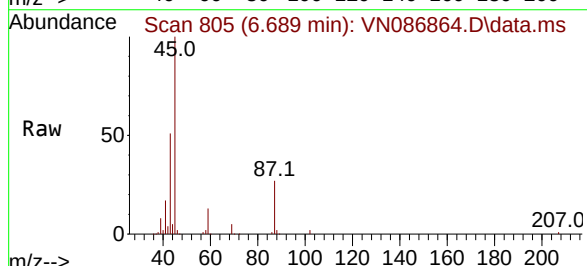
Ion Ratio Lower Upper

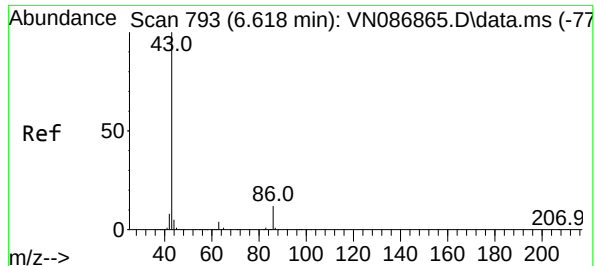
45 100

43 50.7 41.9 62.9

87 27.0 22.4 33.6

59 13.1 9.8 14.6





#23

Vinyl Acetate

Concen: 104.365 ug/l

RT: 6.624 min Scan# 794

Delta R.T. 0.006 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 768550

Ion Ratio Lower Upper

43 100

86 11.4

9.5

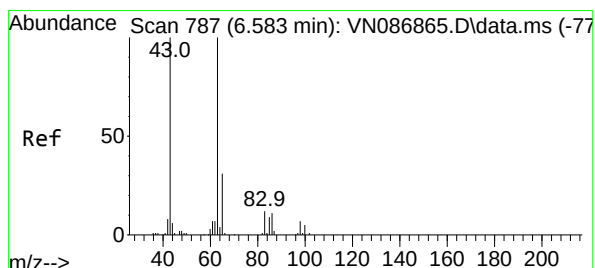
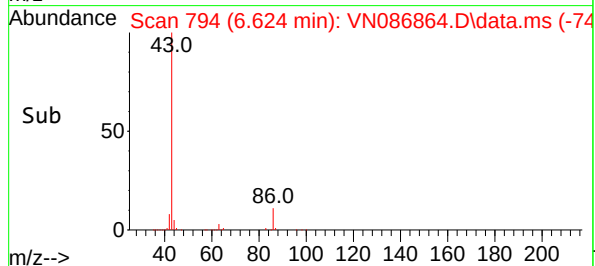
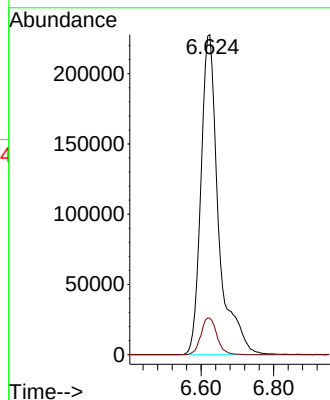
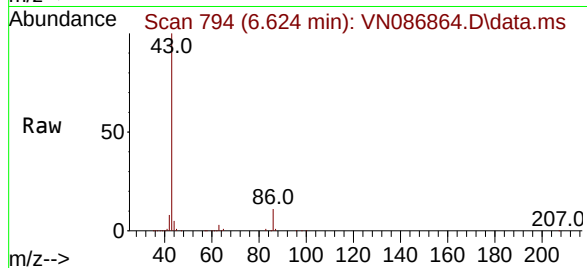
14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#24

1,1-Dichloroethane

Concen: 20.650 ug/l

RT: 6.583 min Scan# 787

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Tgt Ion: 63 Resp: 103578

Ion Ratio Lower Upper

63 100

98 7.5

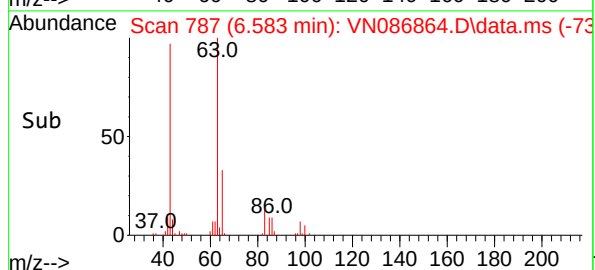
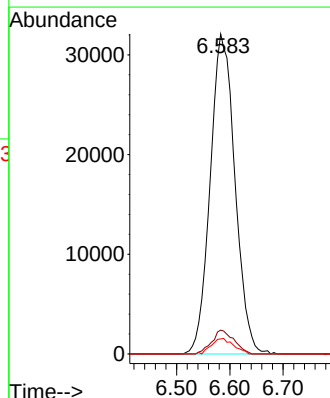
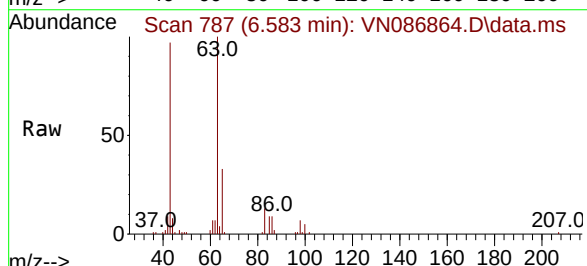
3.6

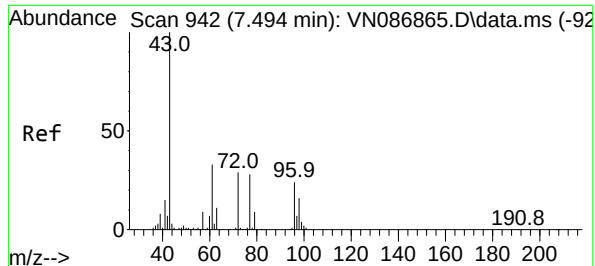
10.8

100 4.7

2.6

7.8





#25

2-Butanone

Concen: 104.621 ug/l

RT: 7.494 min Scan# 942

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 27047

Ion Ratio Lower Upper

43 100

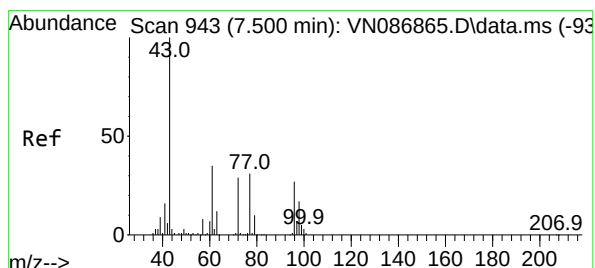
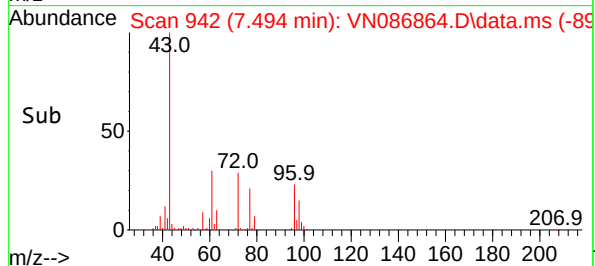
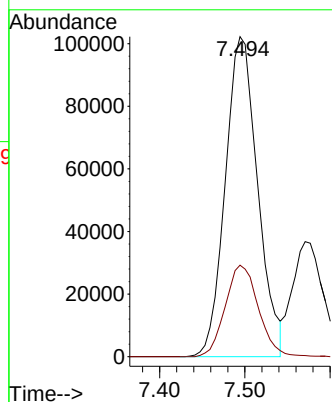
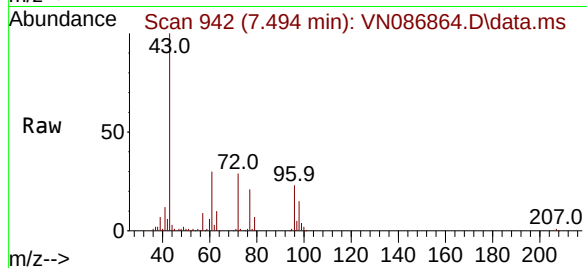
72 28.6 23.0 34.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 17.862 ug/l

RT: 7.506 min Scan# 944

Delta R.T. 0.006 min

Lab File: VN086864.D

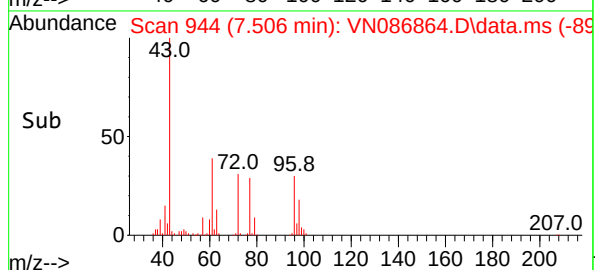
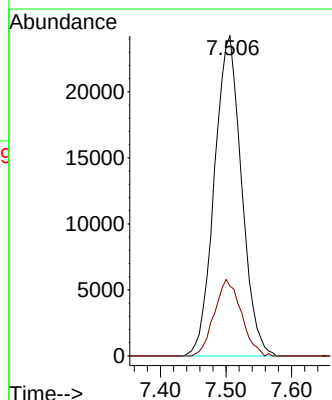
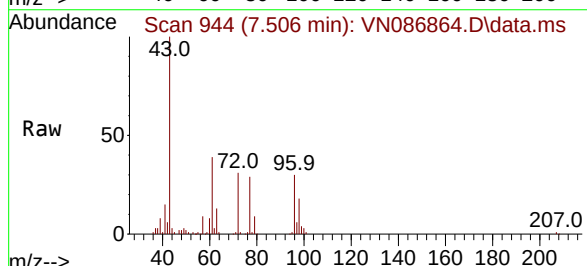
Acq: 06 Jun 2025 13:40

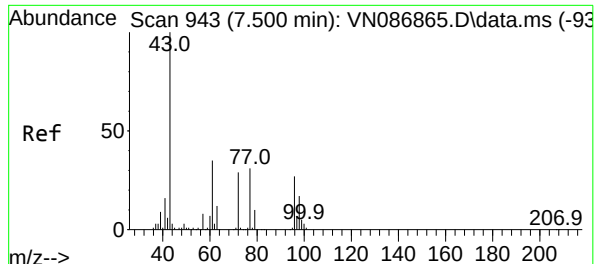
Tgt Ion: 77 Resp: 69692

Ion Ratio Lower Upper

77 100

97 23.7 11.6 34.7





#27

cis-1,2-Dichloroethene

Concen: 20.585 ug/l

RT: 7.500 min Scan# 943

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

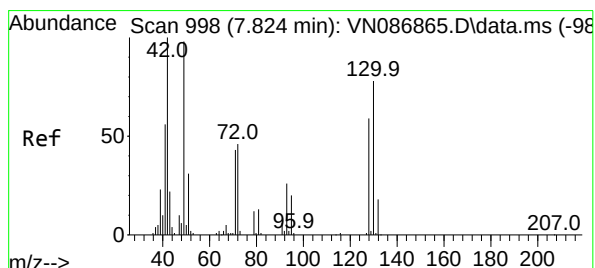
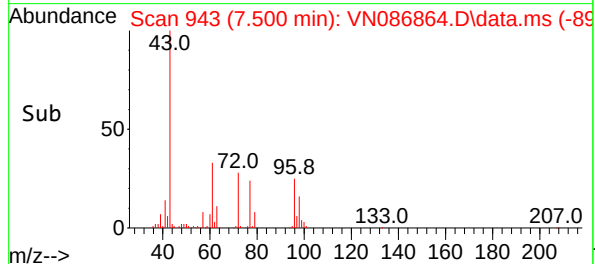
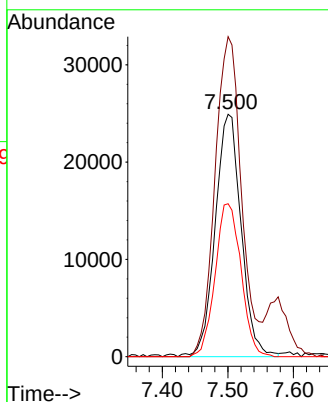
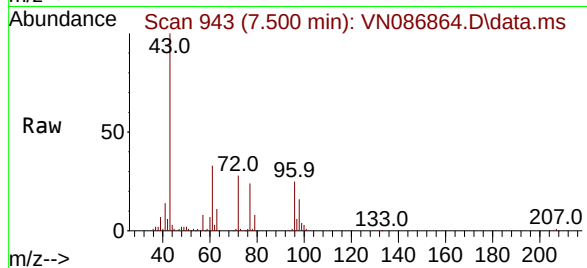
ClientSampleId :

VSTDICC020

Tgt Ion:	96	Resp:	6829
Ion	Ratio	Lower	Upper
96	100		
61	135.5	0.0	278.0
98	63.0	0.0	128.2

Manual Integrations
APPROVED

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



#28

Bromochloromethane

Concen: 22.381 ug/l

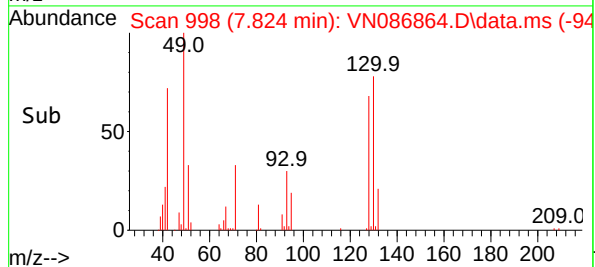
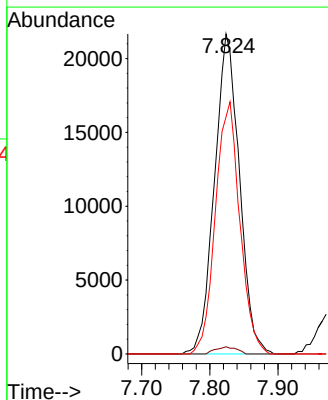
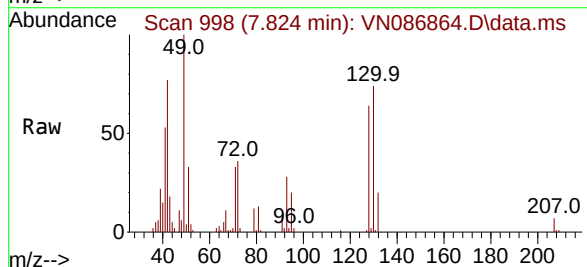
RT: 7.824 min Scan# 998

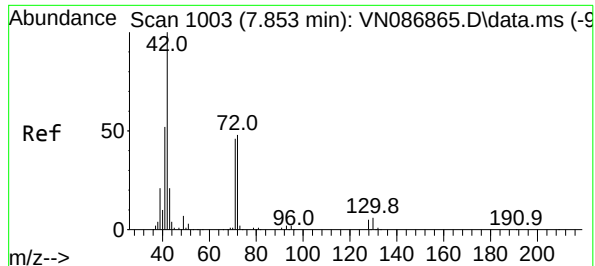
Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Tgt Ion:	49	Resp:	55196
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	77.1	62.2	93.2





#29

Tetrahydrofuran

Concen: 106.031 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 42 Resp: 17857

Ion Ratio Lower Upper

42 100

72 46.6 37.8 56.6

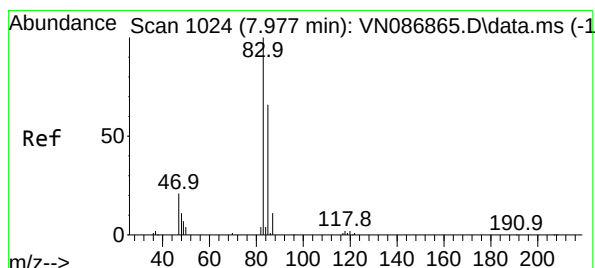
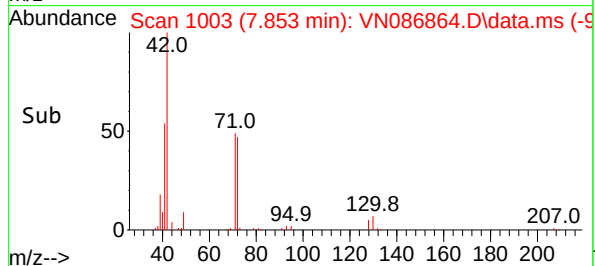
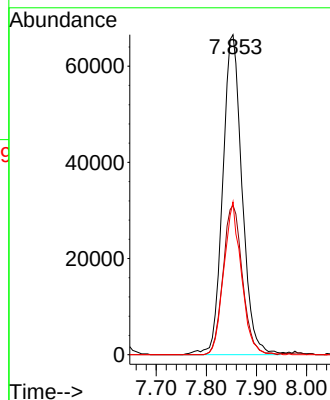
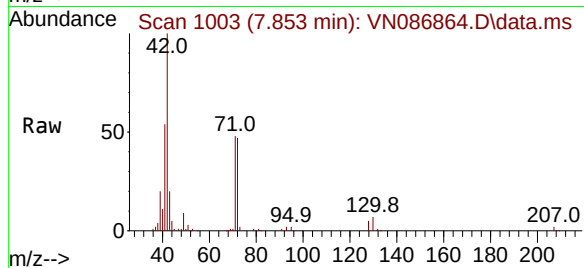
71 43.5 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 20.485 ug/l

RT: 7.977 min Scan# 1024

Delta R.T. -0.000 min

Lab File: VN086864.D

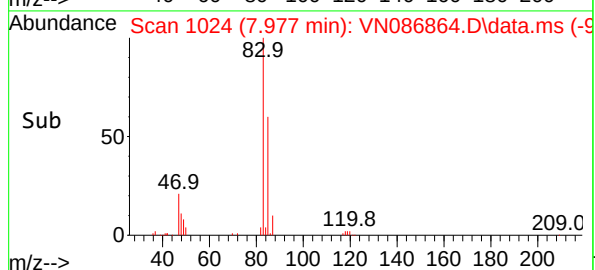
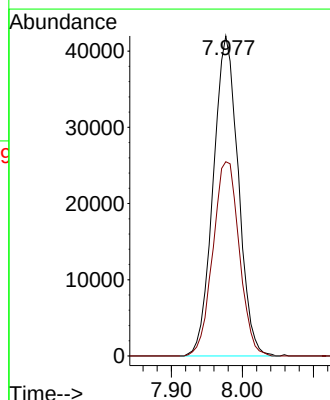
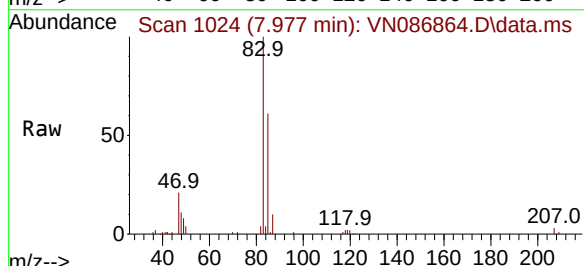
Acq: 06 Jun 2025 13:40

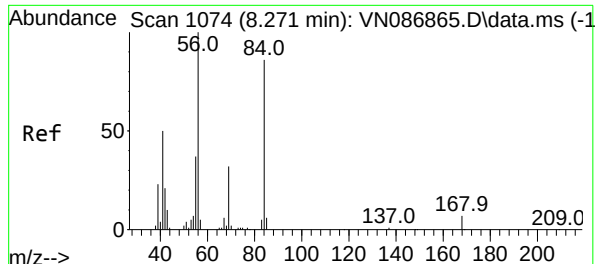
Tgt Ion: 83 Resp: 102615

Ion Ratio Lower Upper

83 100

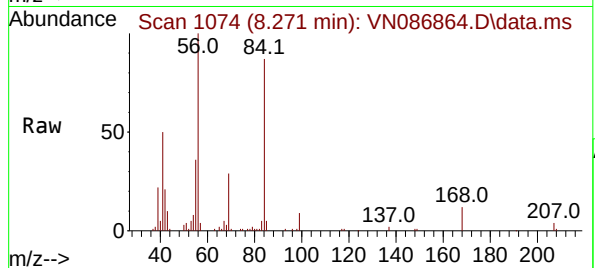
85 60.7 52.9 79.3





#31
Cyclohexane
Concen: 20.563 ug/l
RT: 8.271 min Scan# 1074
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

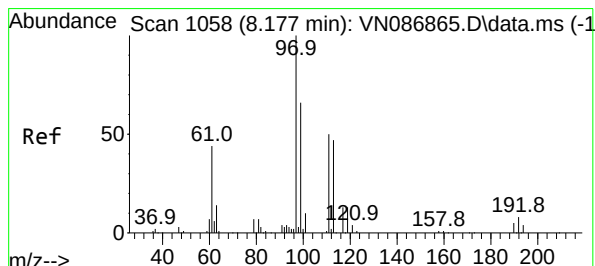
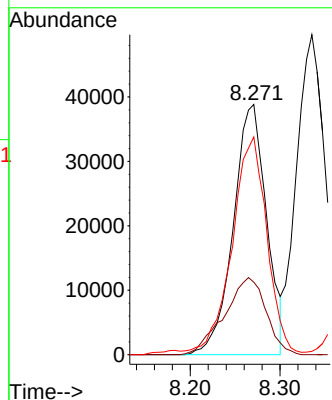
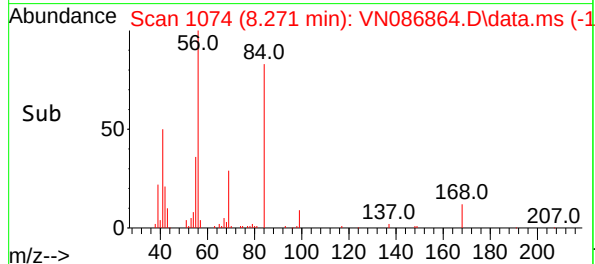
Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020



Tgt Ion: 56 Resp: 100020
Ion Ratio Lower Upper
56 100
69 29.0 25.4 38.0
84 85.6 68.8 103.2

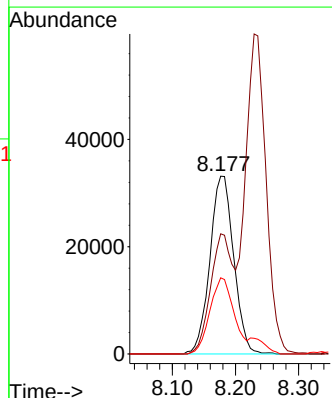
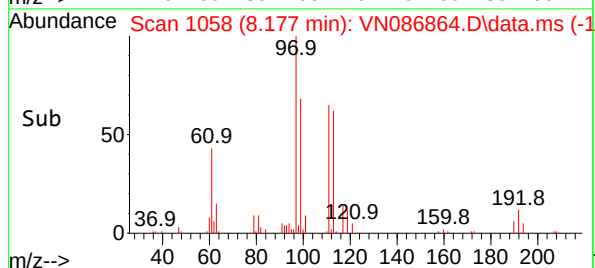
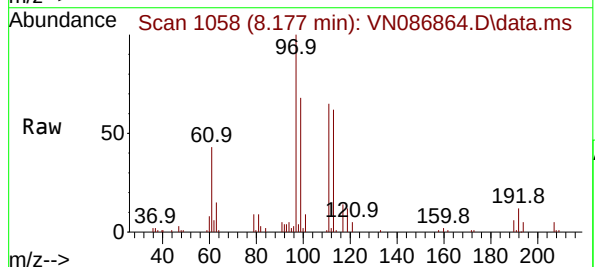
Manual Integrations
APPROVED

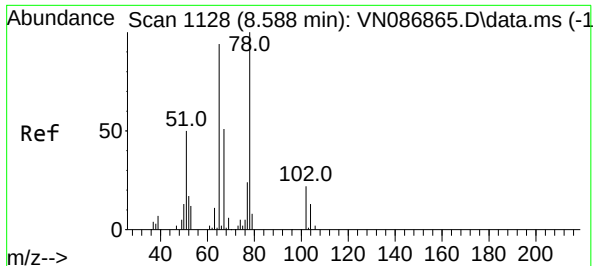
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#32
1,1,1-Trichloroethane
Concen: 20.376 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 97 Resp: 86810
Ion Ratio Lower Upper
97 100
99 63.8 52.0 78.0
61 43.3 35.9 53.9





#33

1,2-Dichloroethane-d4

Concen: 21.136 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 65 Resp: 63390

Ion Ratio Lower Upper

65 100

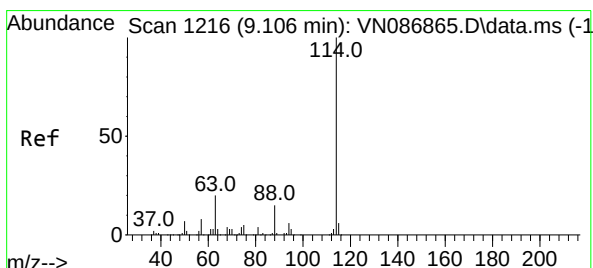
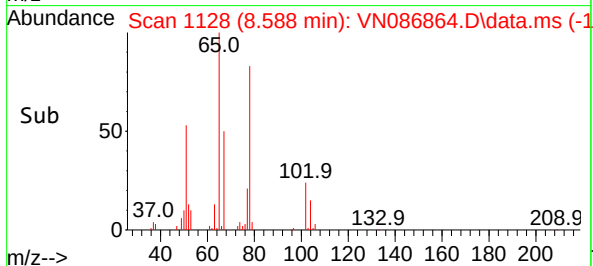
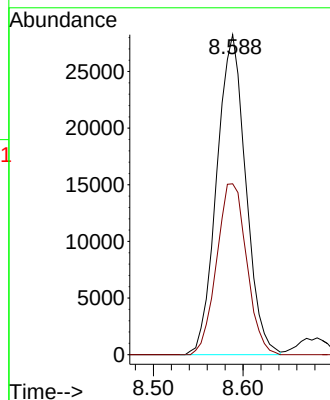
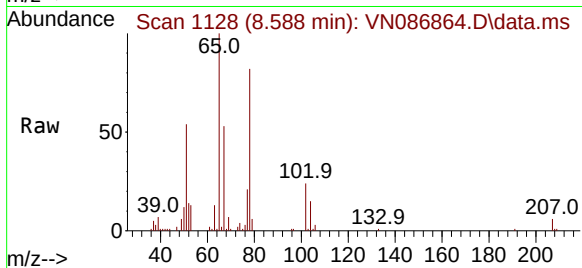
67 55.3 0.0 105.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

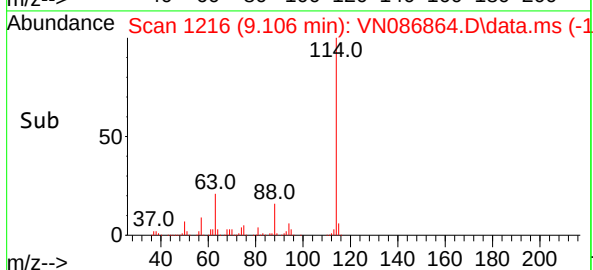
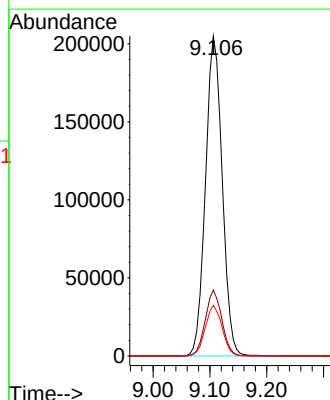
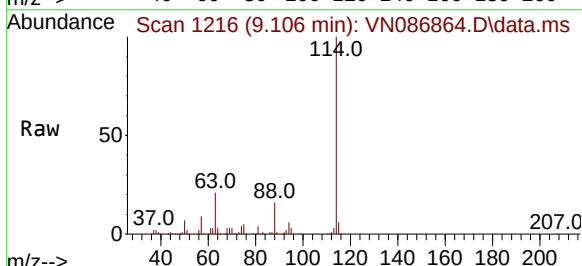
Tgt Ion:114 Resp: 418154

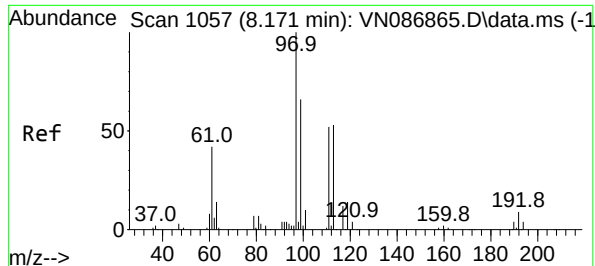
Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.6

88 15.8 0.0 30.2





#35

Dibromofluoromethane

Concen: 20.902 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

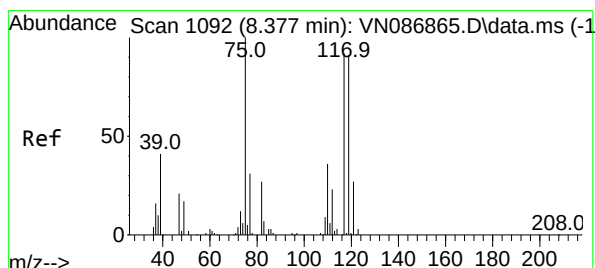
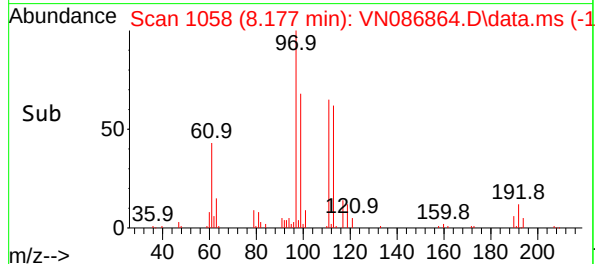
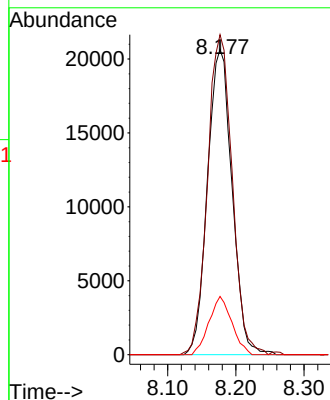
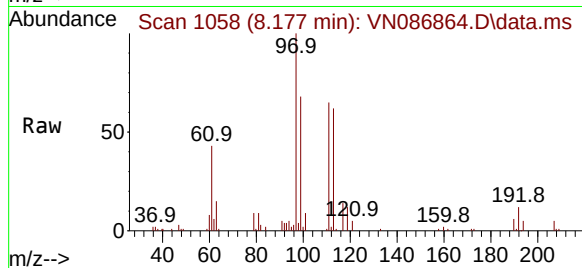
VSTDIC020

Tgt Ion:	113	Resp:	5179
Ion Ratio	Lower	Upper	
113	100		
111	105.1	84.2	126.2
192	17.7	14.2	21.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#36

1,1-Dichloropropene

Concen: 19.838 ug/l

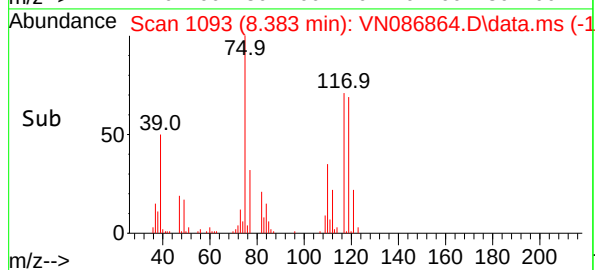
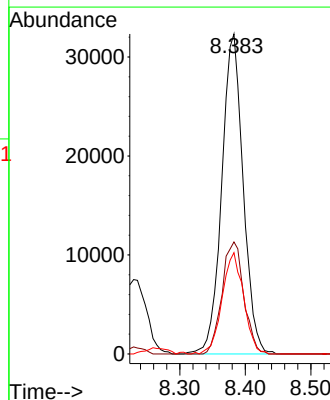
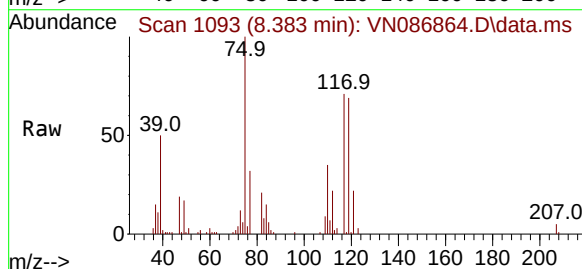
RT: 8.383 min Scan# 1093

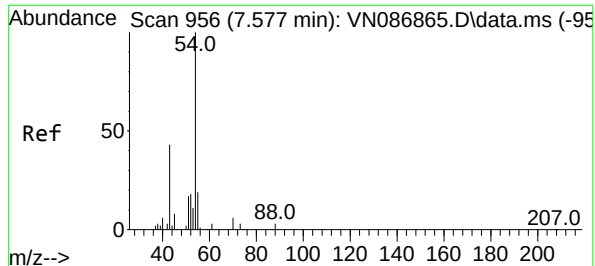
Delta R.T. 0.006 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Tgt Ion:	75	Resp:	73252
Ion Ratio	Lower	Upper	
75	100		
110	35.6	17.6	52.9
77	31.8	25.3	37.9





#37

Ethyl Acetate

Concen: 20.522 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

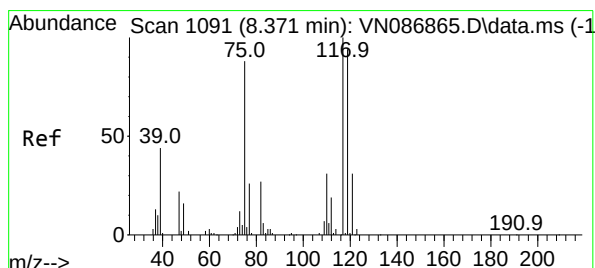
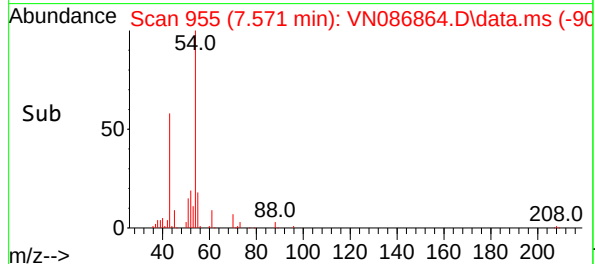
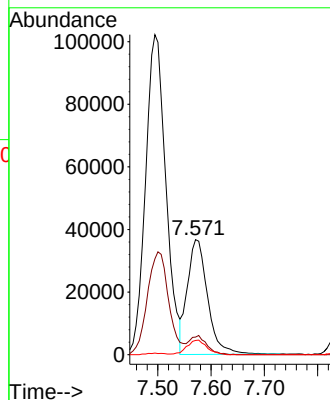
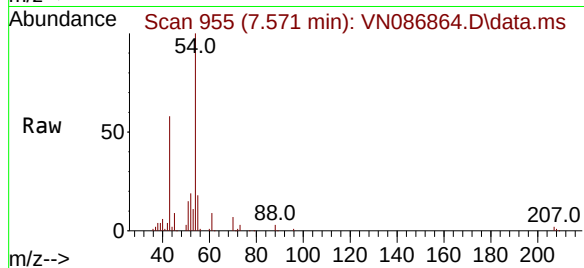
VSTDICC020

Tgt Ion:	43	Resp:	9646
Ion	Ratio	Lower	Upper
43	100		
61	13.9	12.1	18.1
70	12.6	9.8	14.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#38

Carbon Tetrachloride

Concen: 20.034 ug/l

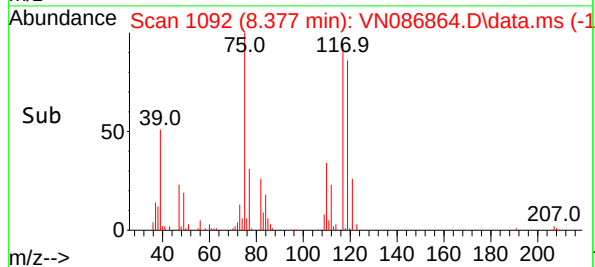
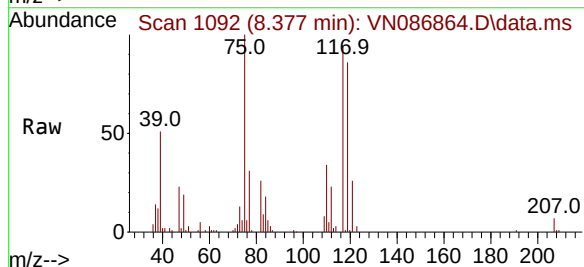
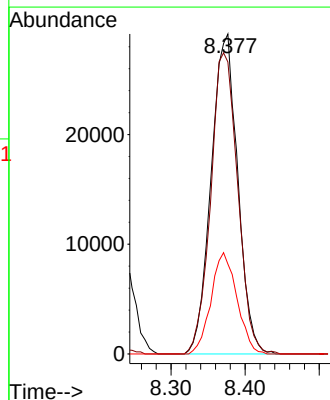
RT: 8.377 min Scan# 1092

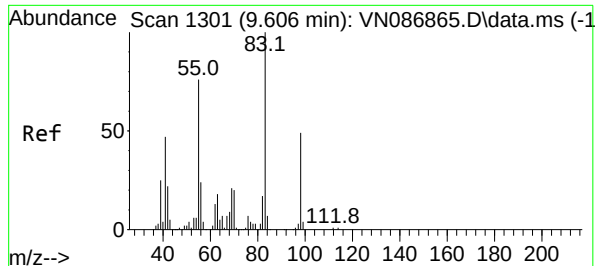
Delta R.T. 0.006 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Tgt Ion:	117	Resp:	72628
Ion	Ratio	Lower	Upper
117	100		
119	91.3	75.0	112.6
121	28.1	24.9	37.3





#39

Methylcyclohexane

Concen: 19.455 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

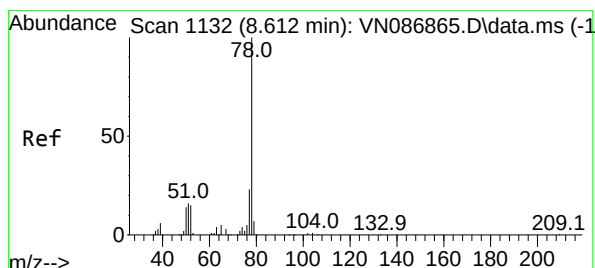
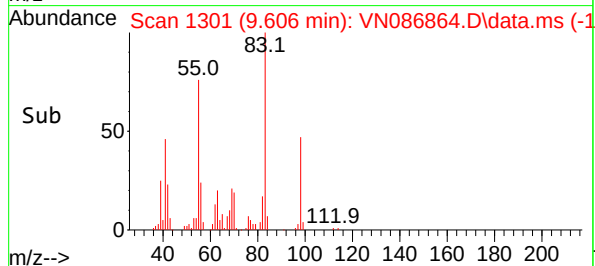
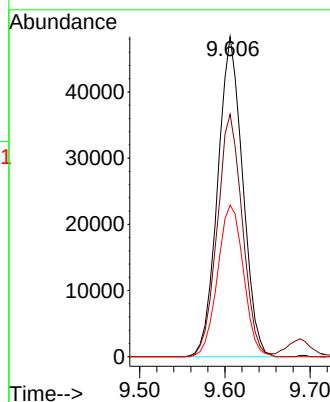
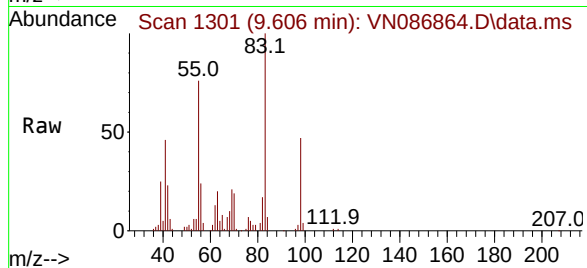
VSTDICC020

Tgt Ion: 83	Resp: 9842
Ion Ratio	Lower Upper
83 100	
55 75.7	61.0 91.6
98 47.4	38.9 58.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#40

Benzene

Concen: 19.996 ug/l

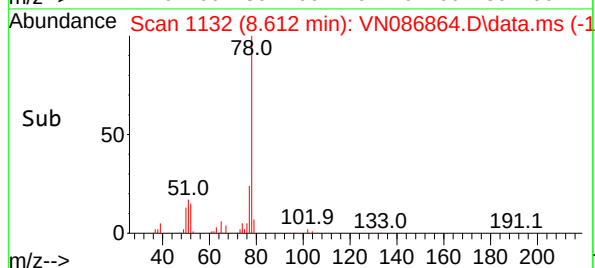
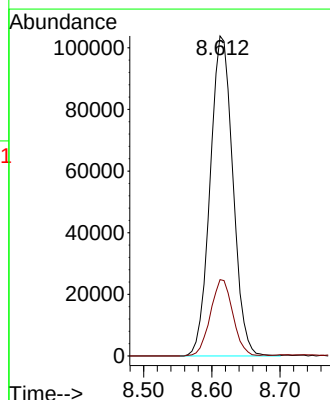
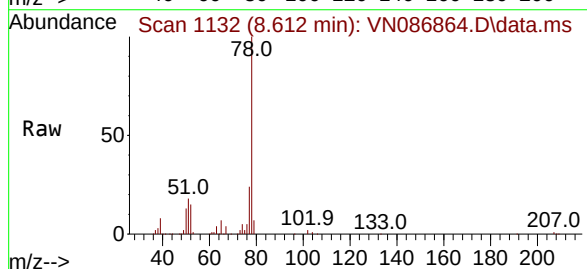
RT: 8.612 min Scan# 1132

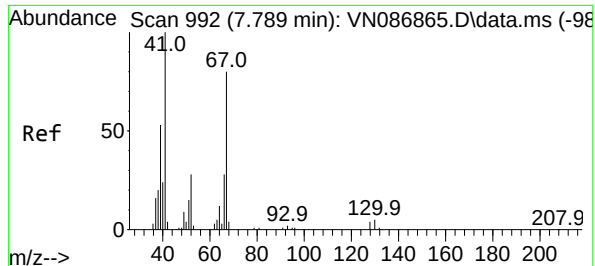
Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

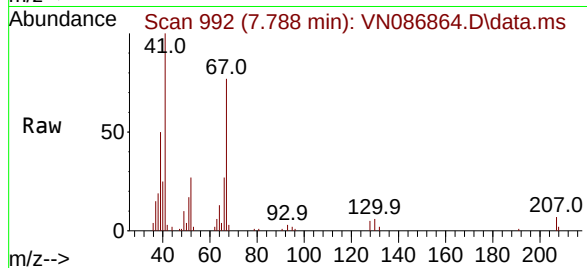
Tgt Ion: 78	Resp: 241444
Ion Ratio	Lower Upper
78 100	
77 23.8	18.7 28.1





#41
Methacrylonitrile
Concen: 20.169 ug/l
RT: 7.788 min Scan# 992
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

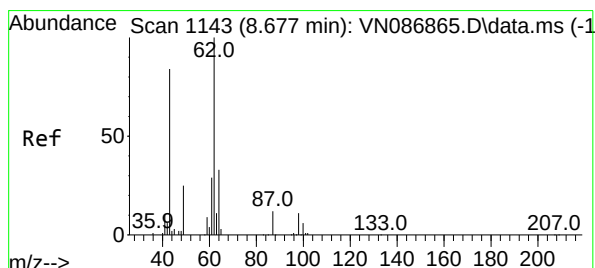
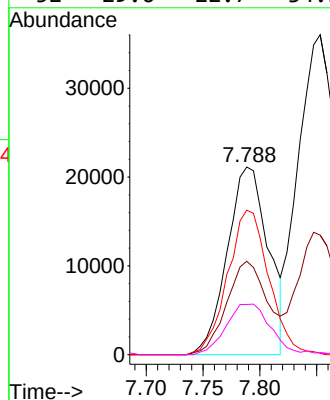
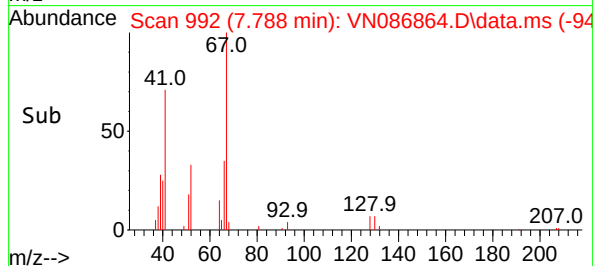
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 41 Resp: 53244
Ion Ratio Lower Upper
41 100
39 49.5 41.2 61.8
67 77.3 61.4 92.2
52 29.6 22.7 34.1

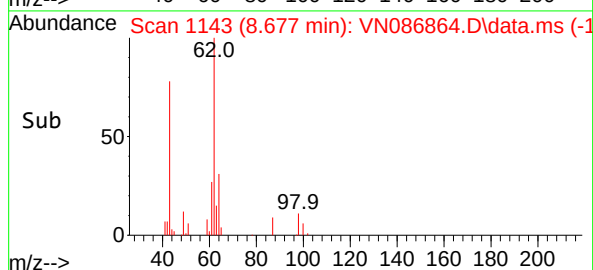
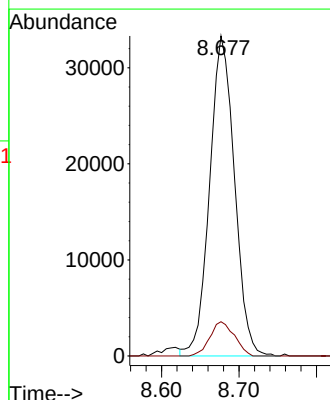
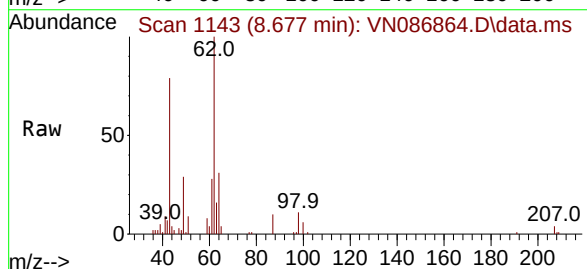
Manual Integrations
APPROVED

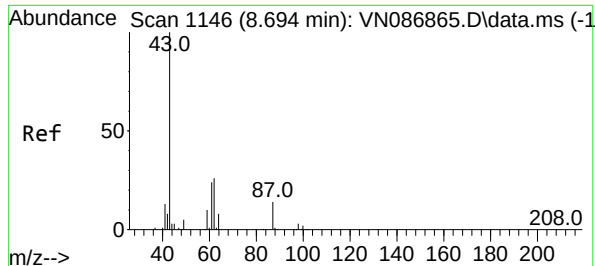
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#42
1,2-Dichloroethane
Concen: 20.270 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 62 Resp: 74238
Ion Ratio Lower Upper
62 100
98 10.6 0.0 21.2





#43

Isopropyl Acetate

Concen: 20.094 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 15160

Ion Ratio Lower Upper

43 100

61 27.9 22.1 33.1

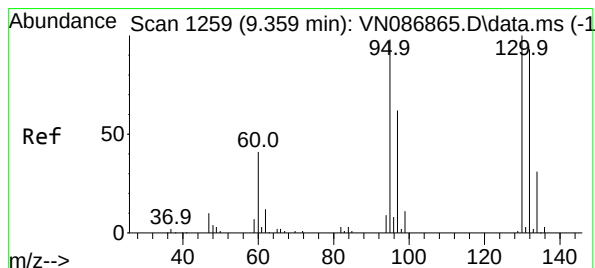
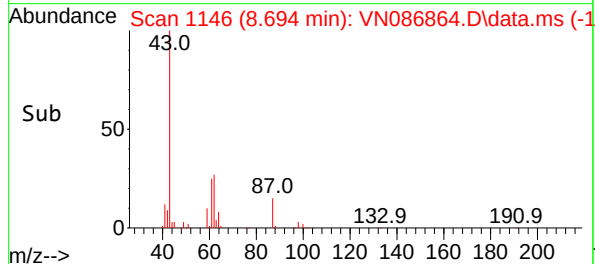
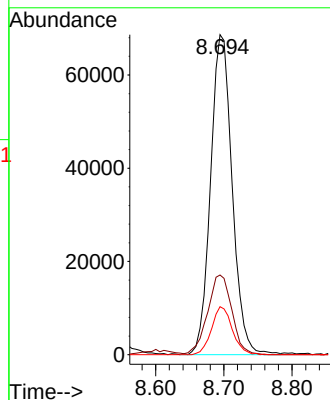
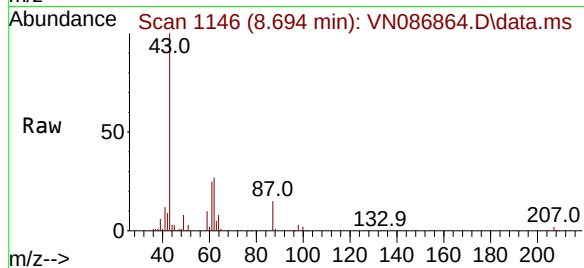
87 14.4 11.8 17.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#44

Trichloroethene

Concen: 19.946 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. -0.000 min

Lab File: VN086864.D

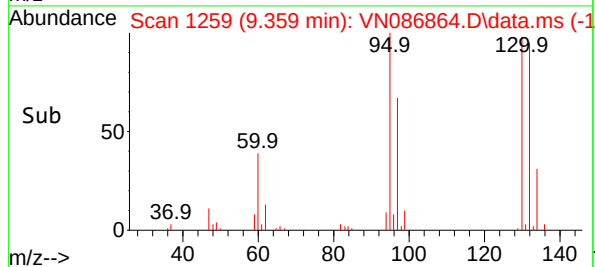
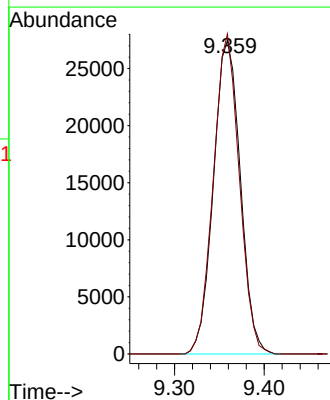
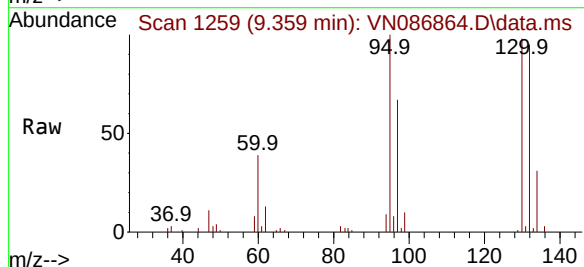
Acq: 06 Jun 2025 13:40

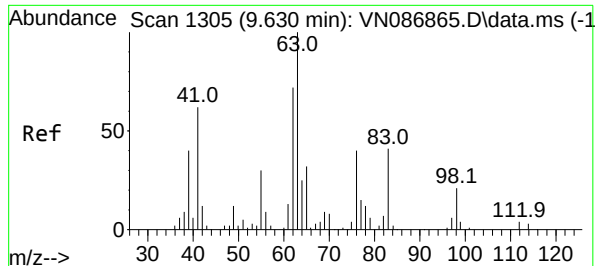
Tgt Ion:130 Resp: 57110

Ion Ratio Lower Upper

130 100

95 102.1 0.0 196.2





#45

1,2-Dichloropropane

Concen: 20.184 ug/l

RT: 9.630 min Scan# 1305

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 5929

Ion Ratio Lower Upper

63 100

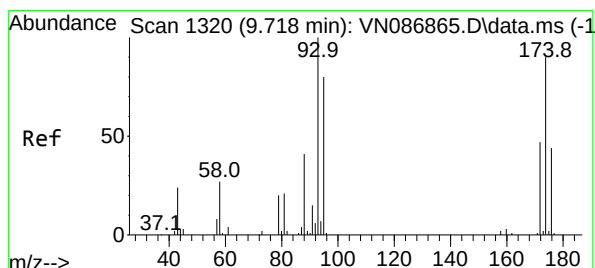
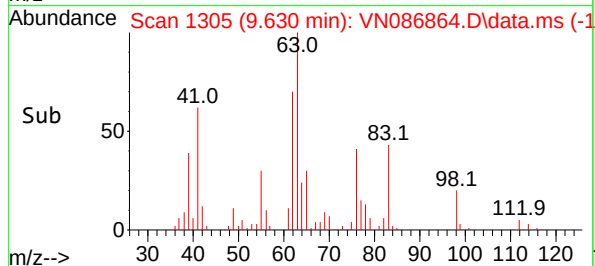
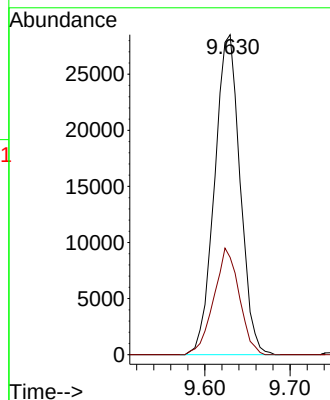
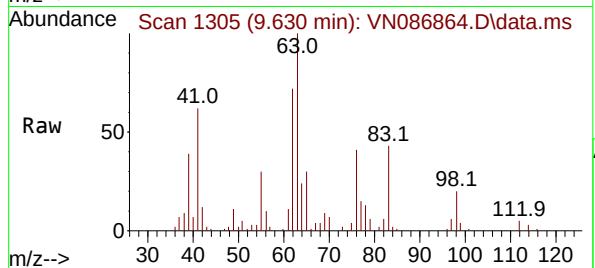
65 30.4 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#46

Dibromomethane

Concen: 20.648 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. -0.006 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

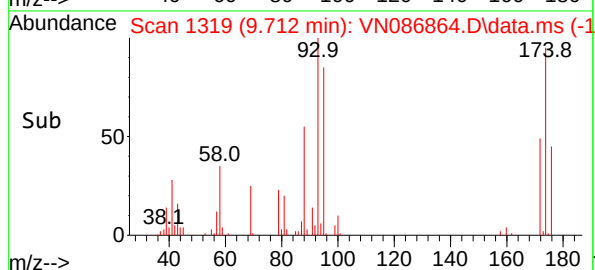
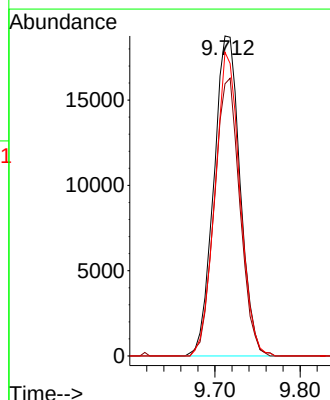
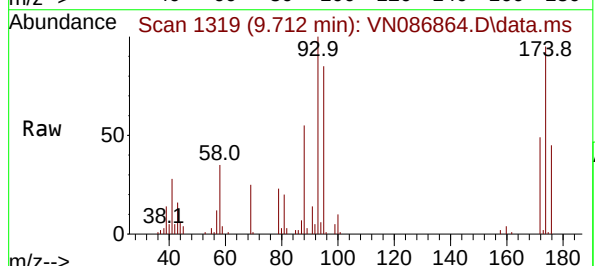
Tgt Ion: 93 Resp: 40290

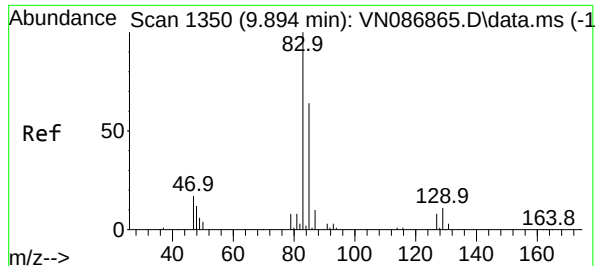
Ion Ratio Lower Upper

93 100

95 84.1 67.1 100.7

174 90.1 74.2 111.4





#47

Bromodichloromethane

Concen: 20.015 ug/l

RT: 9.894 min Scan# 1350

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

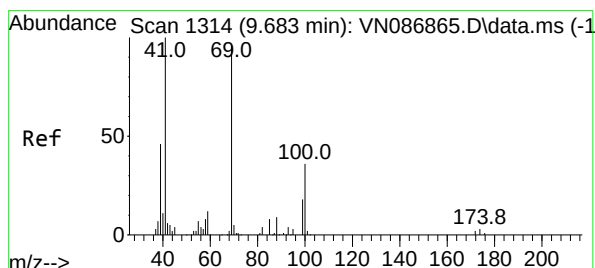
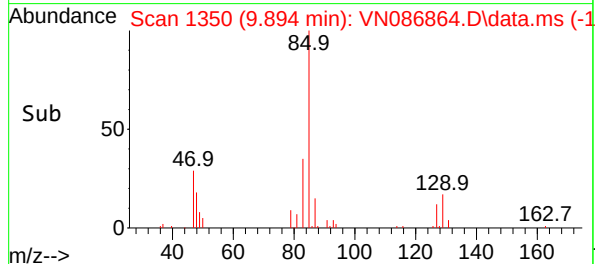
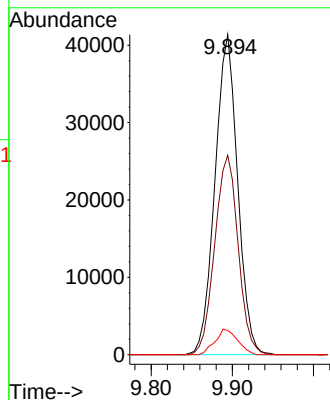
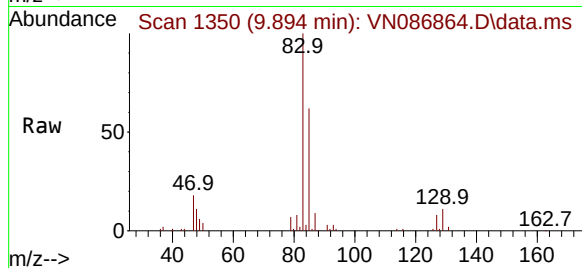
VSTDICC020

Tgt Ion:	83	Resp:	8035
Ion	Ratio	Lower	Upper
83	100		
85	62.3	50.9	76.3
127	7.6	6.6	10.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#48

Methyl methacrylate

Concen: 20.290 ug/l

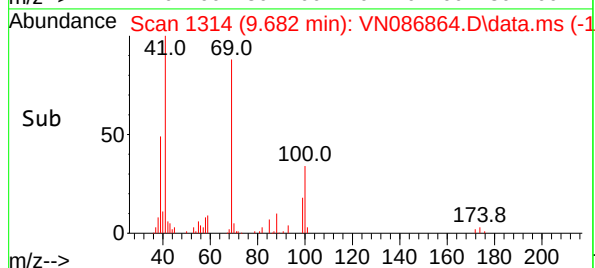
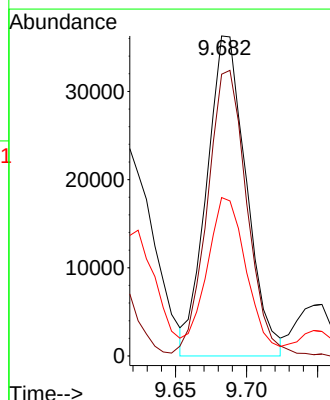
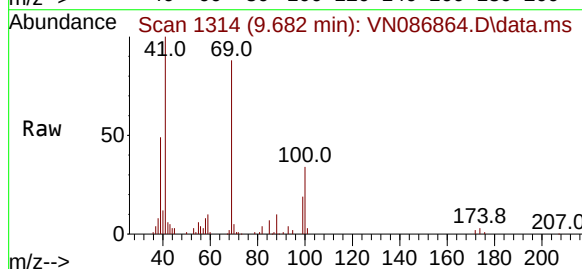
RT: 9.682 min Scan# 1314

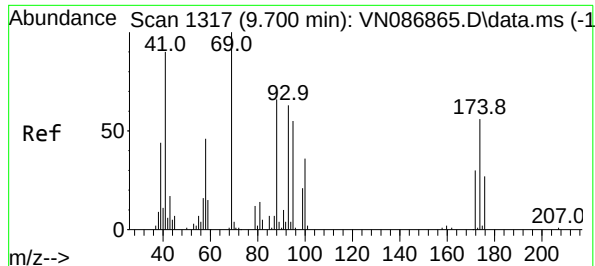
Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Tgt Ion:	41	Resp:	70457
Ion	Ratio	Lower	Upper
41	100		
69	89.4	74.6	112.0
39	50.3	40.2	60.4





#49

1,4-Dioxane

Concen: 446.886 ug/l

RT: 9.706 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 88 Resp: 2823

Ion Ratio Lower Upper

88 100

43 19.7 0.0 0.0

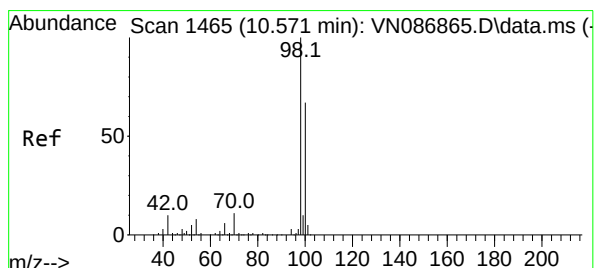
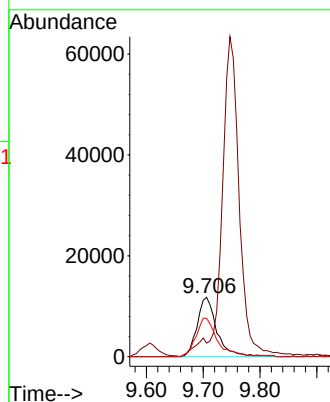
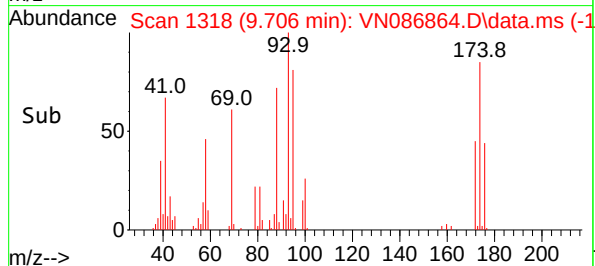
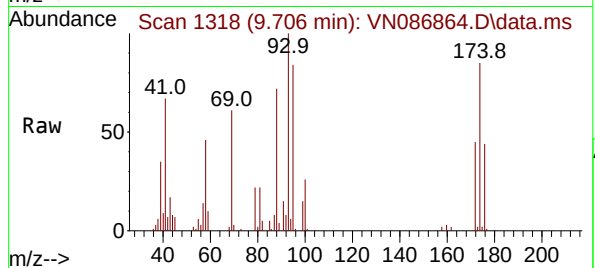
58 70.1 57.7 86.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#50

Toluene-d8

Concen: 20.516 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN086864.D

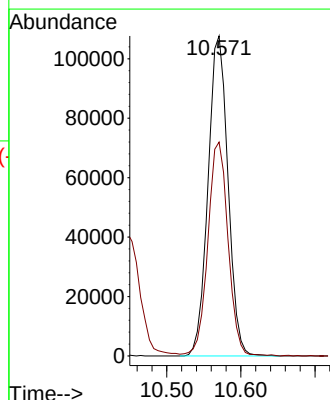
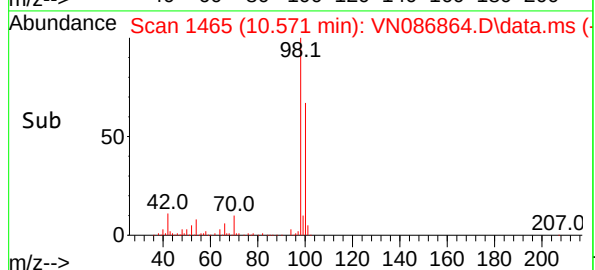
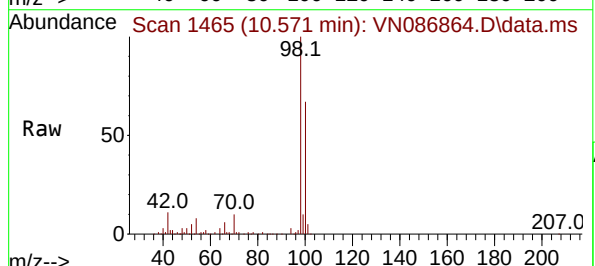
Acq: 06 Jun 2025 13:40

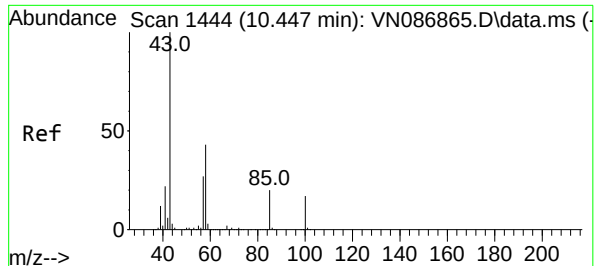
Tgt Ion: 98 Resp: 201268

Ion Ratio Lower Upper

98 100

100 67.8 53.4 80.0





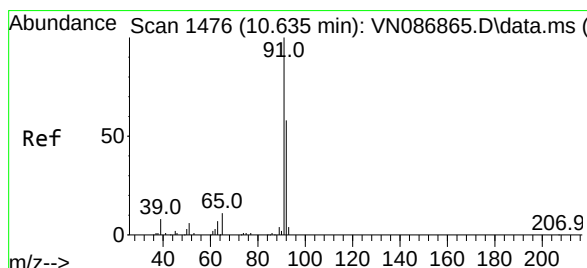
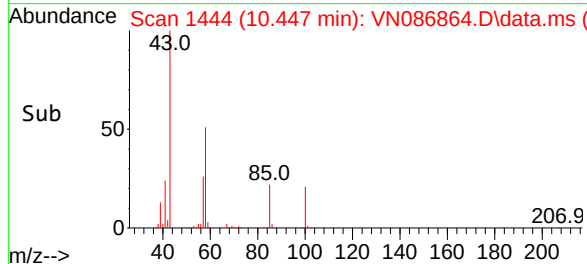
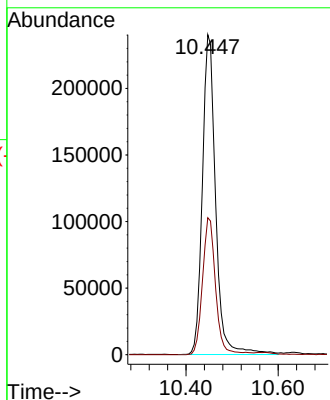
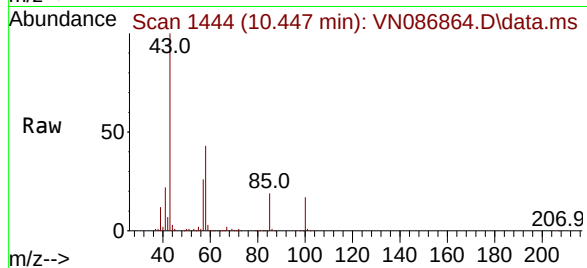
#51
4-Methyl-2-Pentanone
Concen: 106.066 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 48174
Ion Ratio Lower Upper
43 100
58 42.0 34.2 51.4

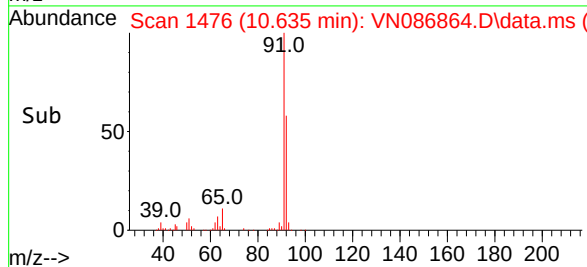
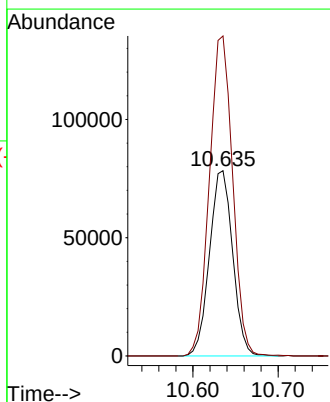
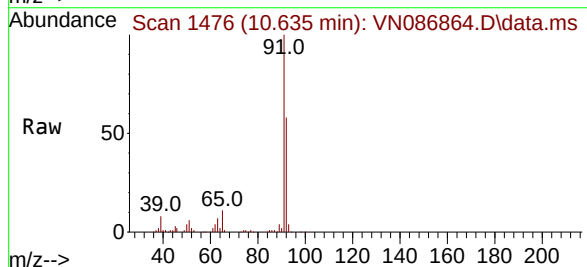
Manual Integrations
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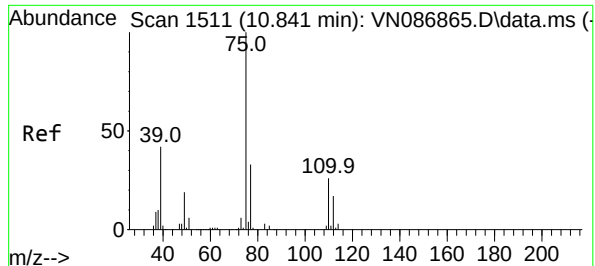
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#52
Toluene
Concen: 20.056 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 92 Resp: 148000
Ion Ratio Lower Upper
92 100
91 172.9 136.5 204.7





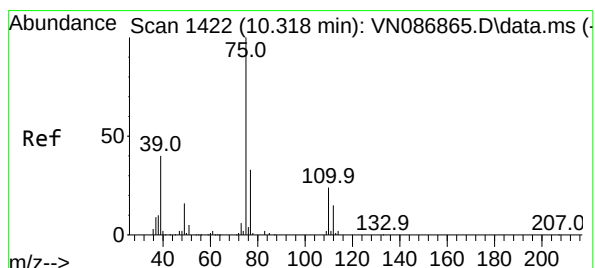
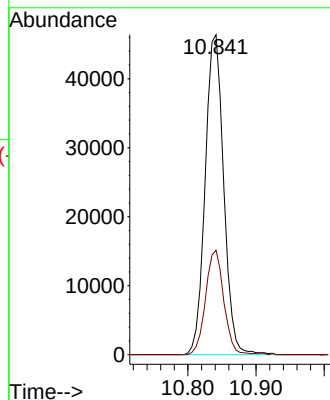
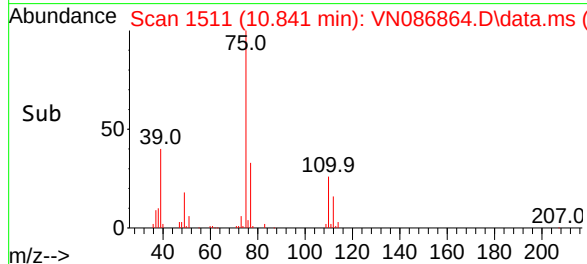
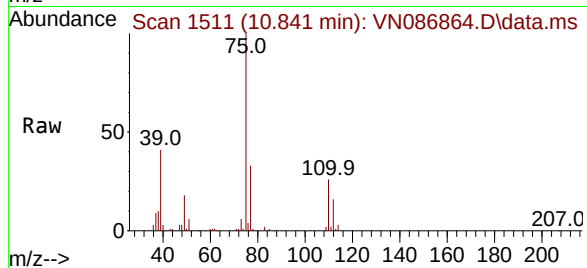
#53
t-1,3-Dichloropropene
Concen: 19.532 ug/l
RT: 10.841 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 8768
Ion Ratio Lower Upper
75 100
77 32.7 26.4 39.6

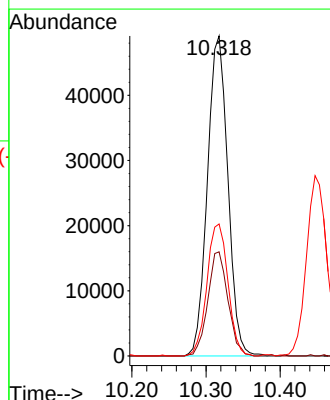
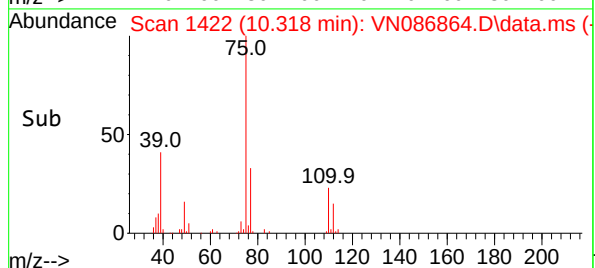
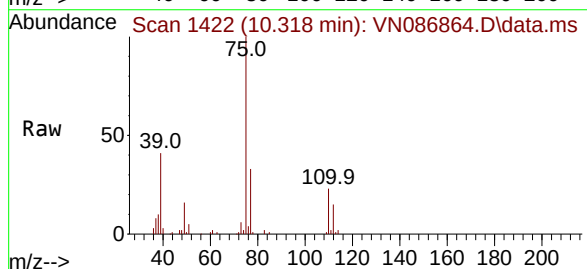
Manual Integrations
APPROVED

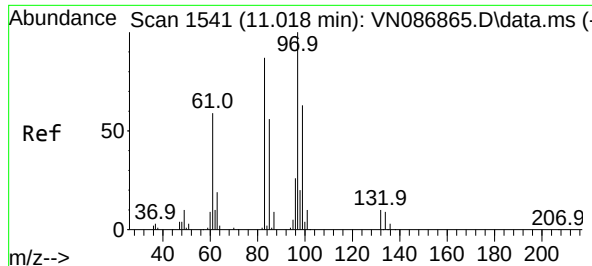
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#54
cis-1,3-Dichloropropene
Concen: 19.636 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

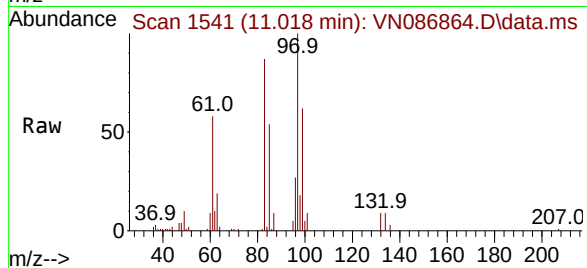
Tgt Ion: 75 Resp: 94315
Ion Ratio Lower Upper
75 100
77 32.5 26.2 39.4
39 41.3 32.3 48.5





#55
1,1,2-Trichloroethane
Concen: 20.143 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

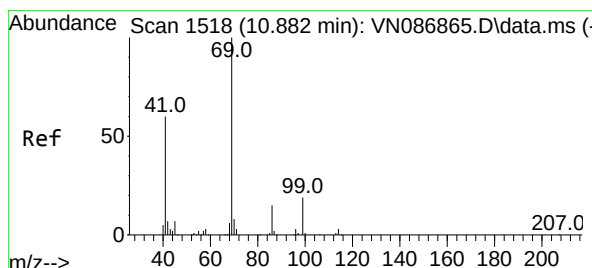
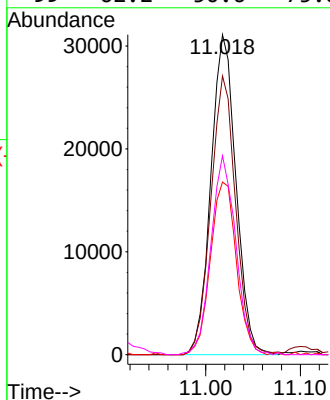
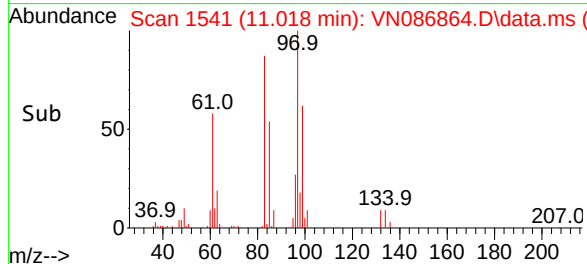
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 97 Resp: 5719
Ion Ratio Lower Upper
97 100
83 87.1 69.7 104.5
85 54.0 45.1 67.7
99 62.2 50.6 75.8

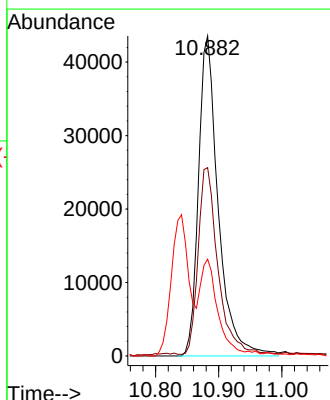
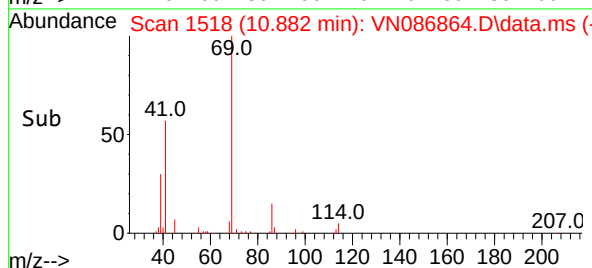
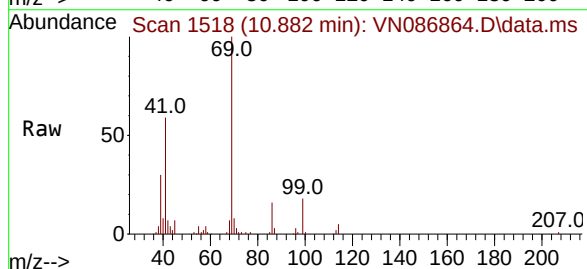
Manual Integrations
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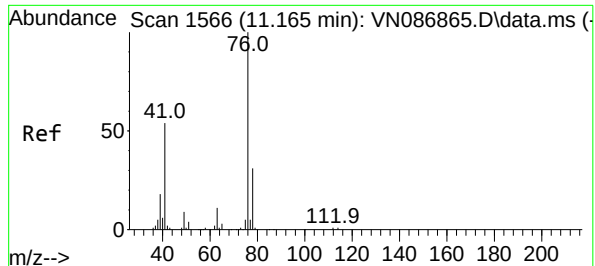
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#56
Ethyl methacrylate
Concen: 20.968 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 69 Resp: 94829
Ion Ratio Lower Upper
69 100
41 58.9 47.2 70.8
39 25.9 23.0 34.6





#57

1,3-Dichloropropane

Concen: 19.938 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 9820

Ion Ratio Lower Upper

76 100

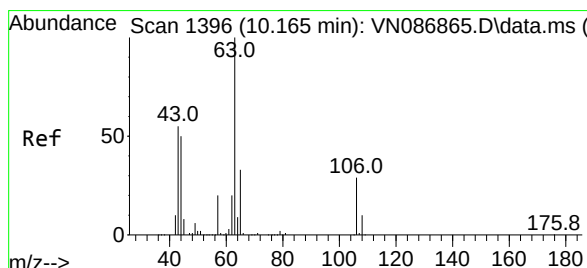
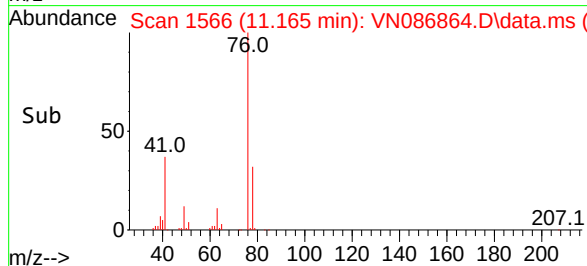
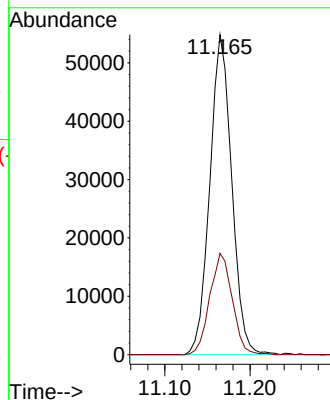
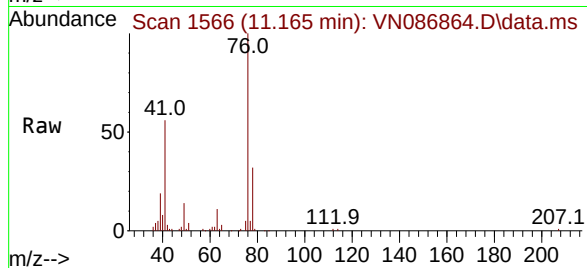
78 32.4 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#58

2-Chloroethyl Vinyl ether

Concen: 103.426 ug/l

RT: 10.165 min Scan# 1396

Delta R.T. -0.000 min

Lab File: VN086864.D

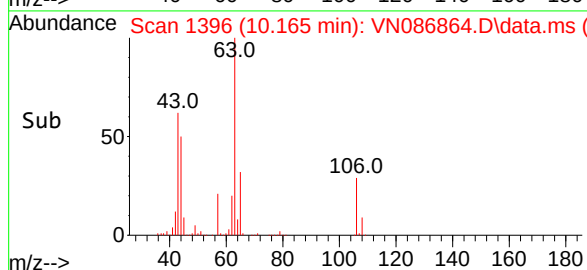
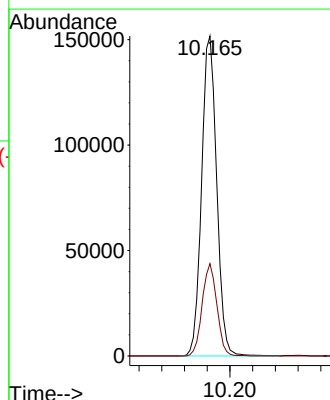
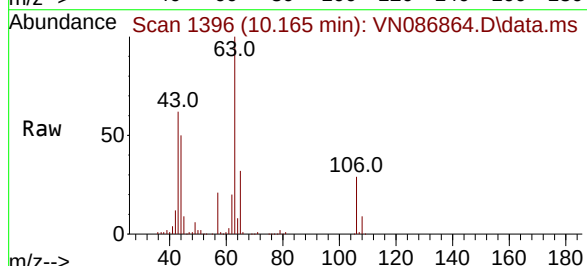
Acq: 06 Jun 2025 13:40

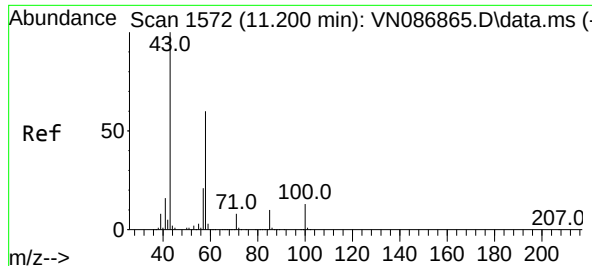
Tgt Ion: 63 Resp: 278986

Ion Ratio Lower Upper

63 100

106 28.1 23.0 34.6





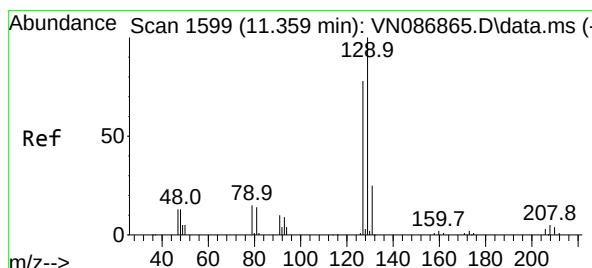
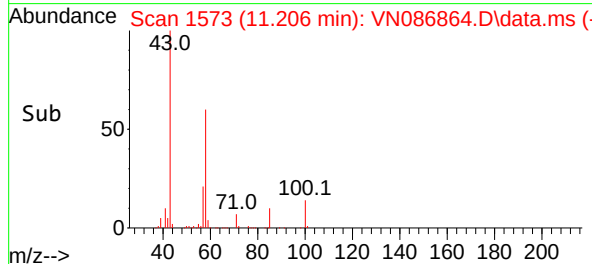
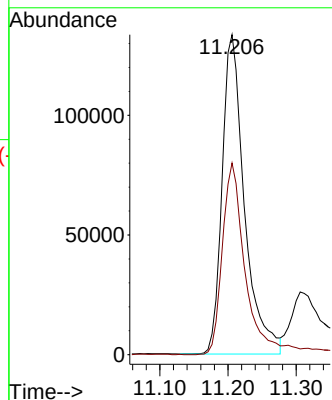
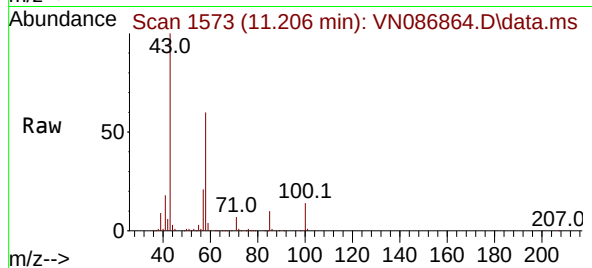
#59
2-Hexanone
Concen: 103.803 ug/l
RT: 11.206 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC020

Tgt Ion: 43 Resp: 30368
Ion Ratio Lower Upper
43 100
58 64.8 30.4 91.3

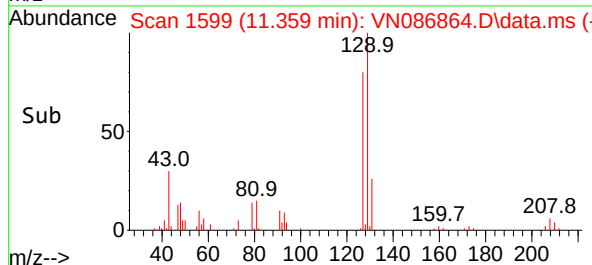
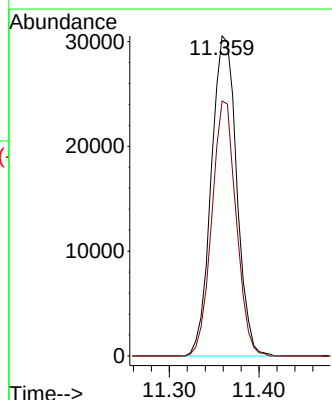
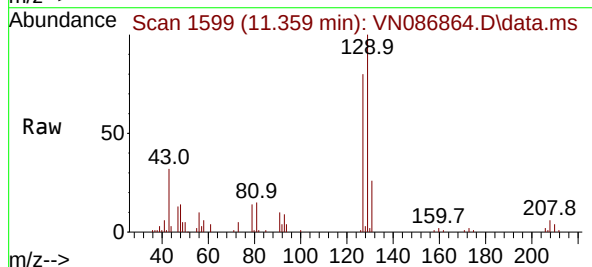
Manual Integrations
APPROVED

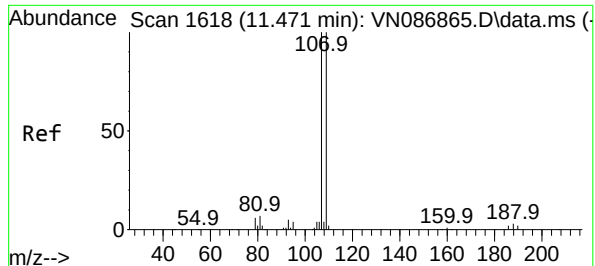
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#60
Dibromochloromethane
Concen: 20.268 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:129 Resp: 59961
Ion Ratio Lower Upper
129 100
127 76.3 38.6 115.8





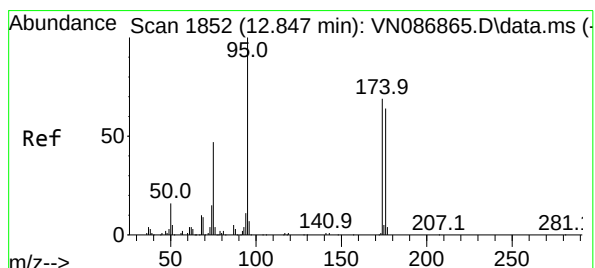
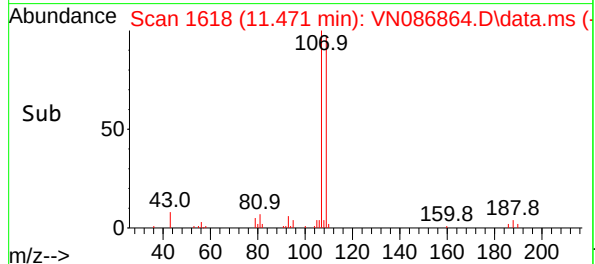
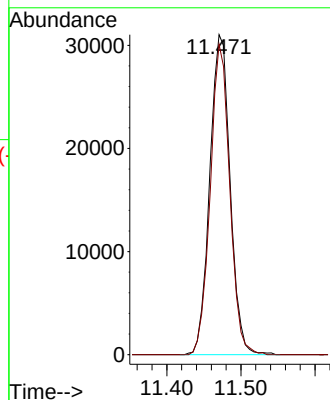
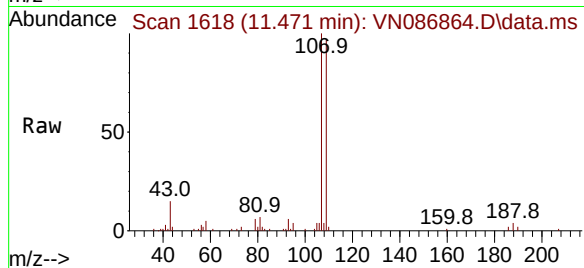
#61
1,2-Dibromoethane
Concen: 20.320 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 59139
Ion Ratio Lower Upper
107 100
109 93.0 76.3 114.5

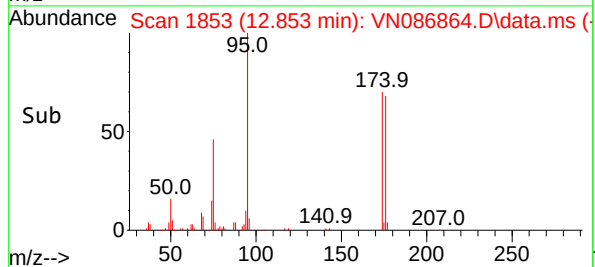
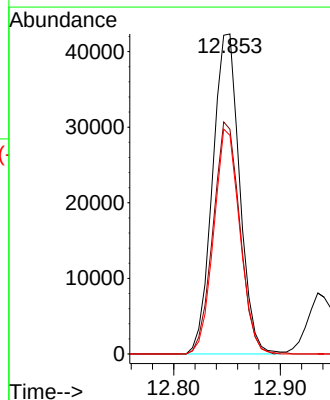
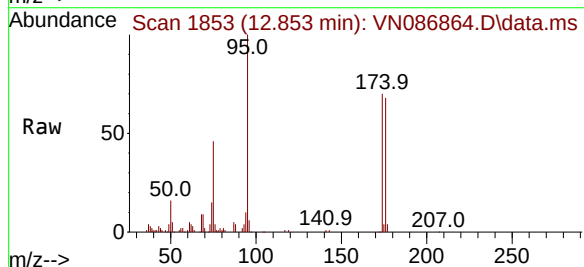
Manual Integrations
APPROVED

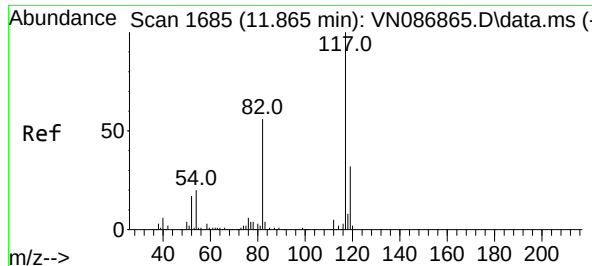
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#62
4-Bromofluorobenzene
Concen: 20.474 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

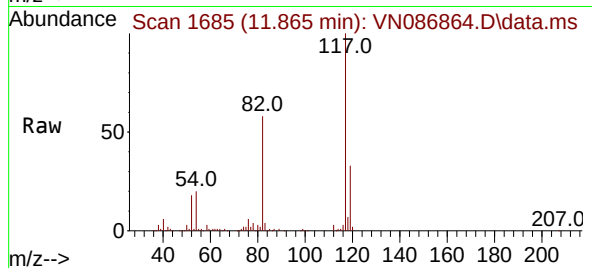
Tgt Ion: 95 Resp: 74622
Ion Ratio Lower Upper
95 100
174 71.7 0.0 141.8
176 68.0 0.0 132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

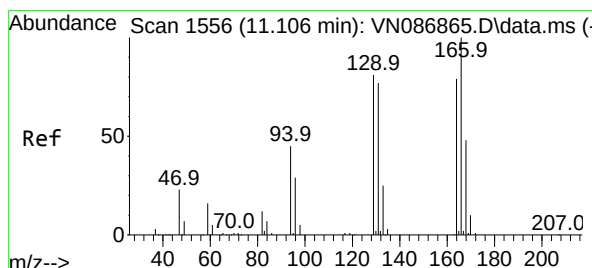
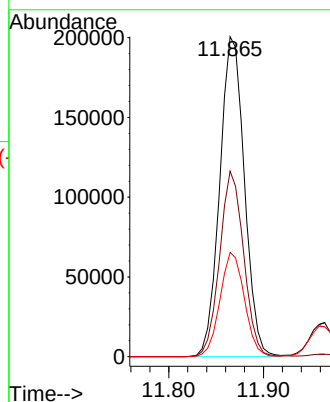
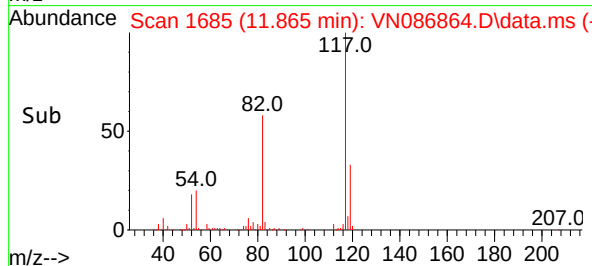
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:117 Resp: 363172
Ion Ratio Lower Upper
117 100
82 58.0 44.6 67.0
119 32.6 25.5 38.3

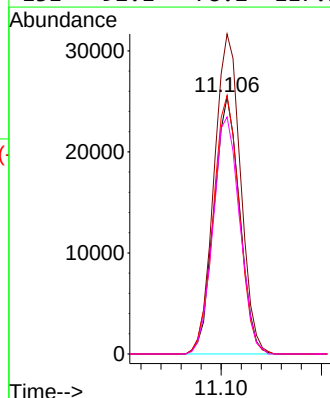
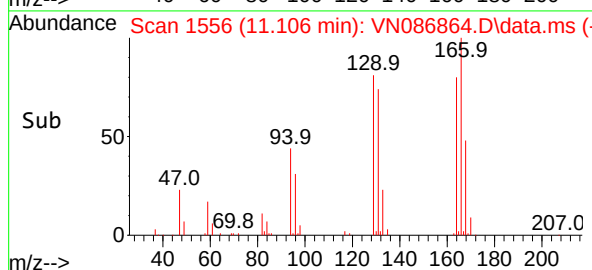
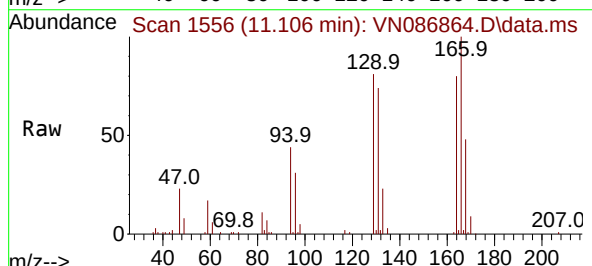
Manual Integrations
APPROVED

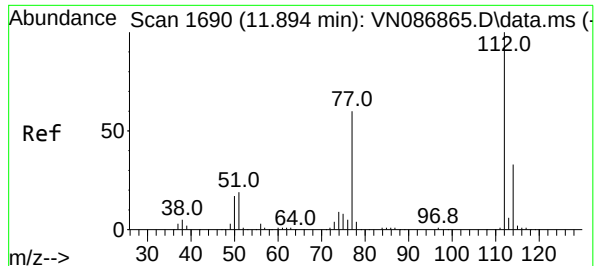
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#64
Tetrachloroethene
Concen: 19.742 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:164 Resp: 45374
Ion Ratio Lower Upper
164 100
166 124.4 101.8 152.8
129 100.4 83.0 124.4
131 92.1 78.2 117.2





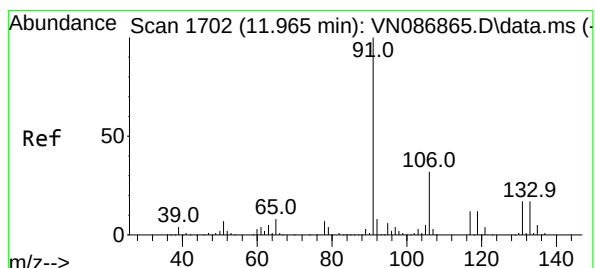
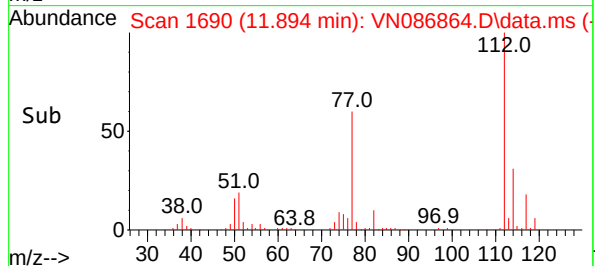
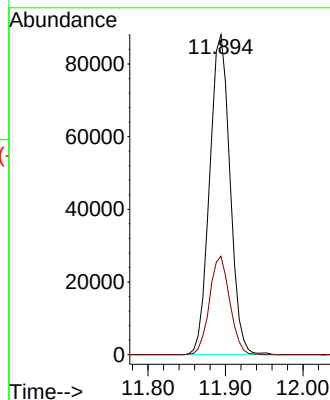
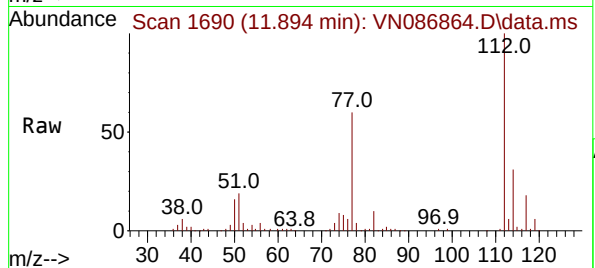
#65
Chlorobenzene
Concen: 20.076 ug/l
RT: 11.894 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 16080
Ion Ratio Lower Upper
112 100
114 30.8 26.2 39.2

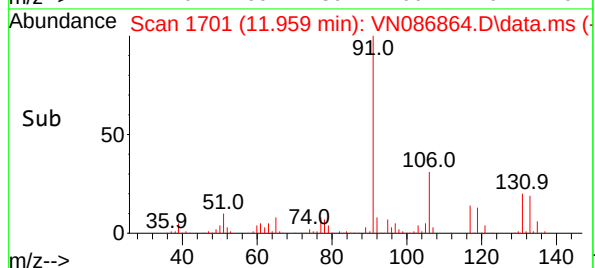
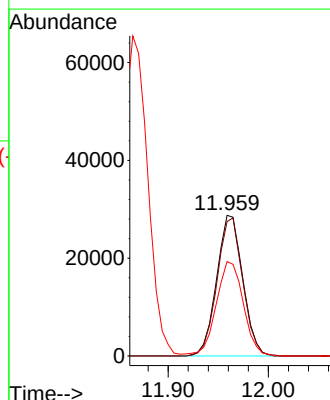
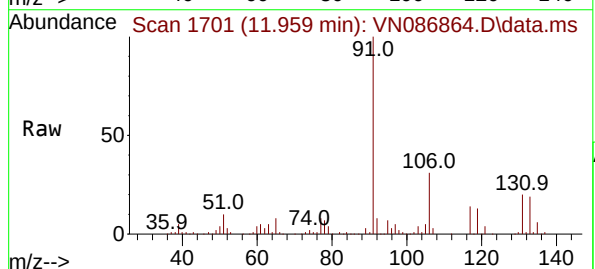
Manual Integrations
APPROVED

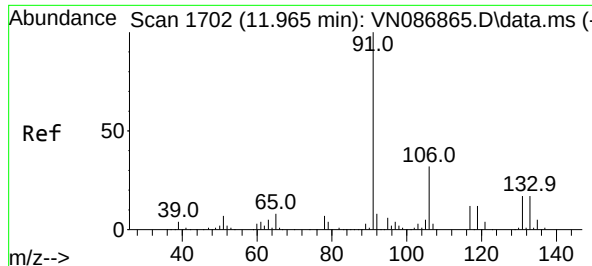
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 20.223 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:131 Resp: 52069
Ion Ratio Lower Upper
131 100
133 96.3 48.3 144.8
119 69.6 34.0 101.8





#67

Ethyl Benzene

Concen: 20.083 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 27708

Ion Ratio Lower Upper

91 100

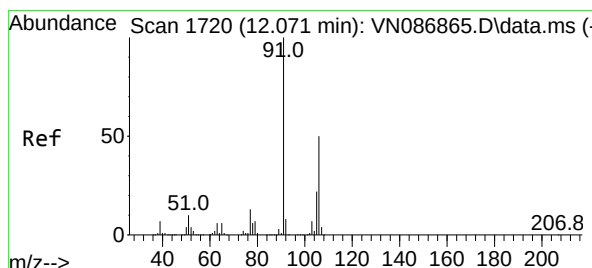
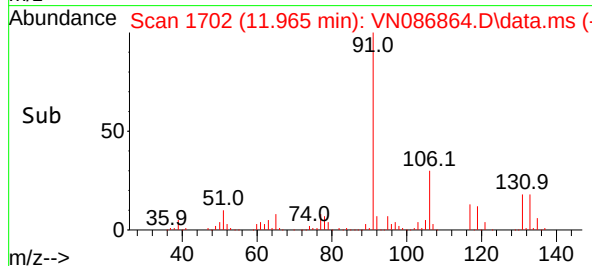
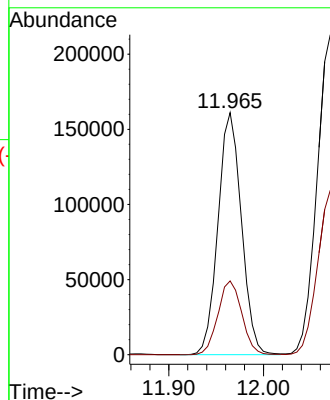
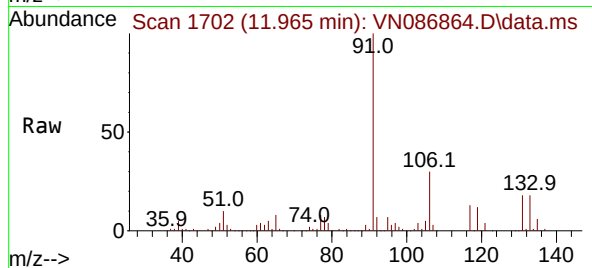
106 30.5 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#68

m/p-Xylenes

Concen: 40.780 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN086864.D

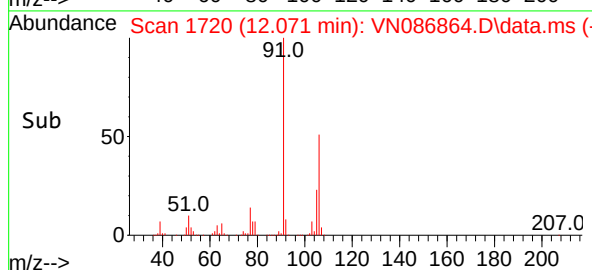
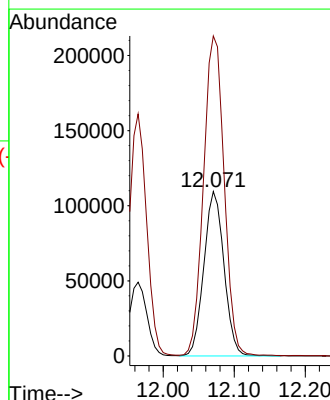
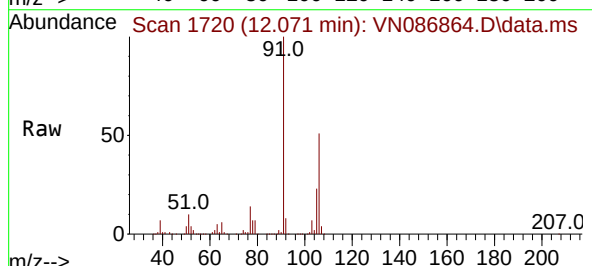
Acq: 06 Jun 2025 13:40

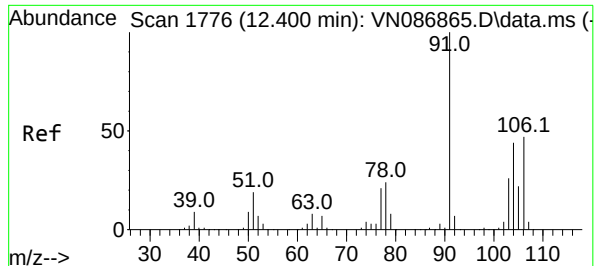
Tgt Ion:106 Resp: 215378

Ion Ratio Lower Upper

106 100

91 199.8 159.4 239.0





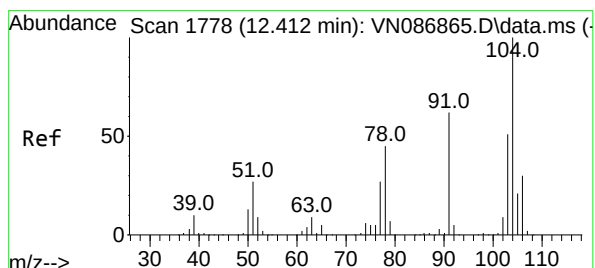
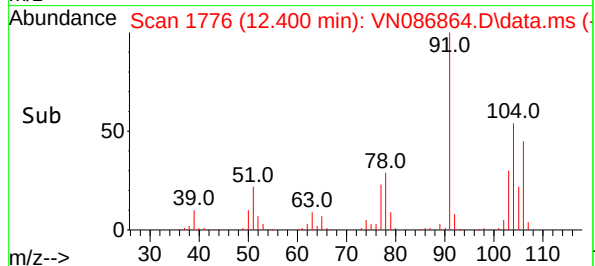
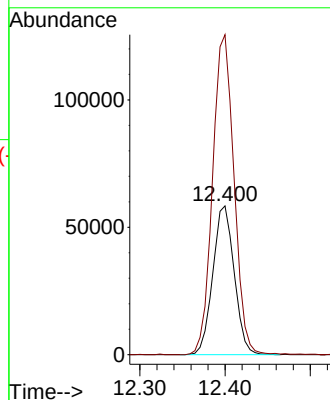
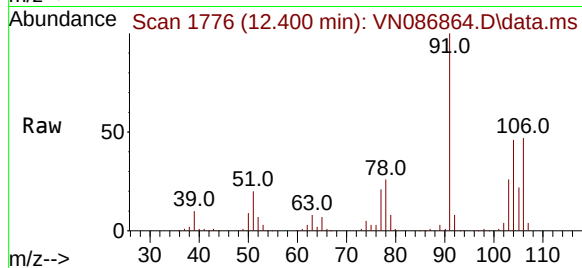
#69
o-Xylene
Concen: 20.175 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:106 Resp: 102050
Ion Ratio Lower Upper
106 100
91 215.9 106.1 318.1

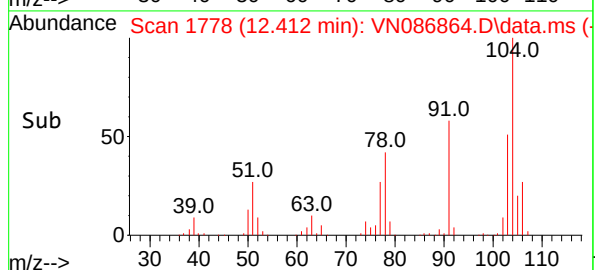
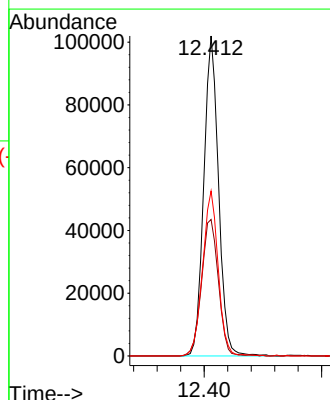
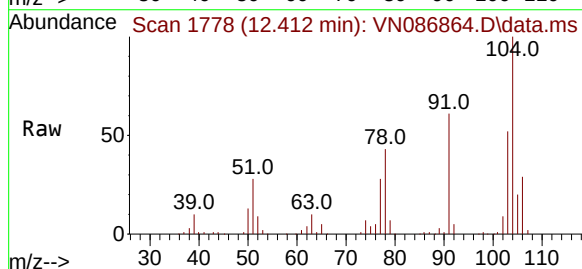
Manual Integrations
APPROVED

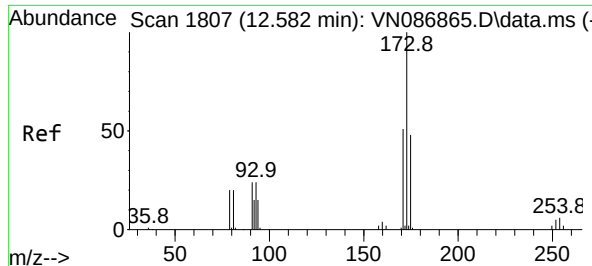
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#70
Styrene
Concen: 20.572 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

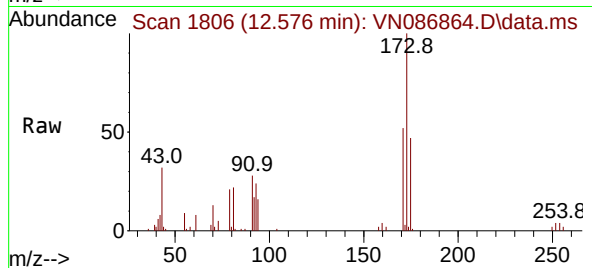
Tgt Ion:104 Resp: 178061
Ion Ratio Lower Upper
104 100
78 48.3 38.5 57.7
103 54.4 43.1 64.7





#71
Bromoform
Concen: 21.004 ug/l
RT: 12.576 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

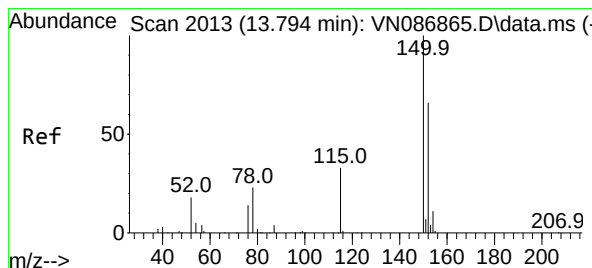
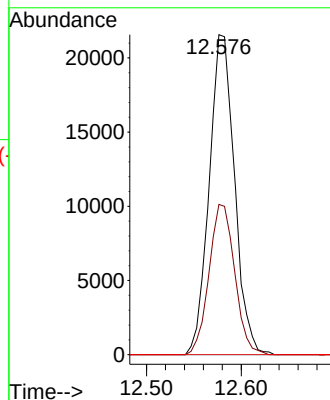
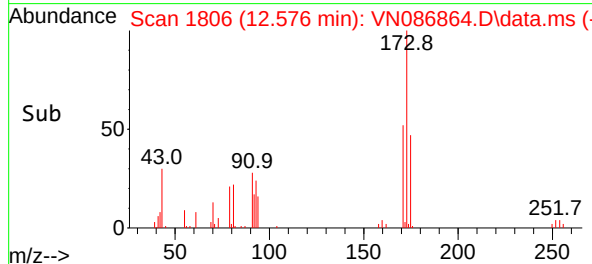
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



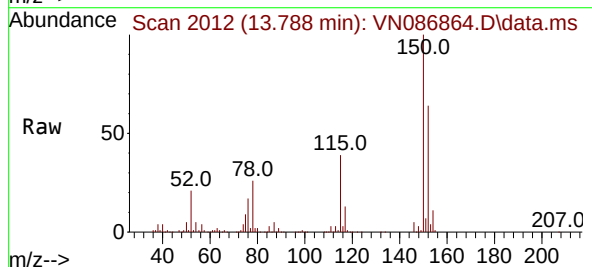
Tgt Ion:173 Resp: 40070
Ion Ratio Lower Upper
173 100
175 47.6 24.1 72.4
254 0.0 0.0 0.0

Manual Integrations
APPROVED

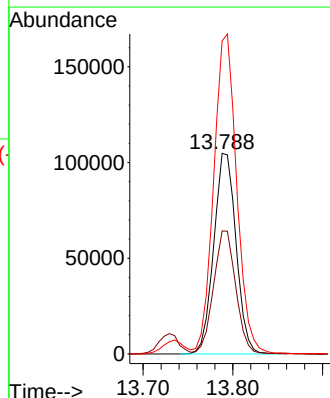
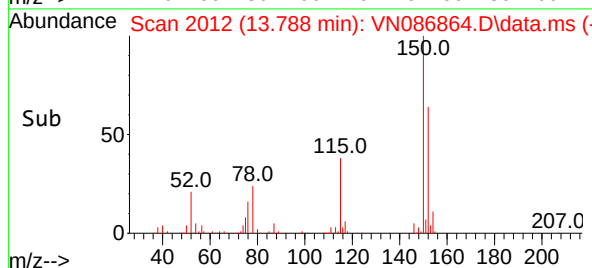
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

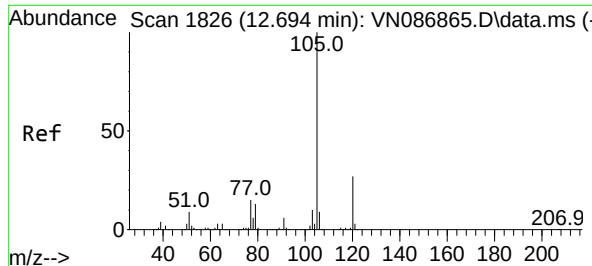


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40



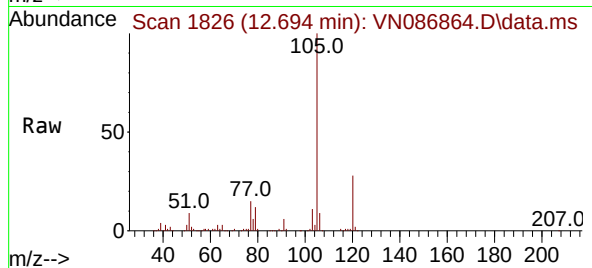
Tgt Ion:152 Resp: 181178
Ion Ratio Lower Upper
152 100
115 61.4 30.1 90.5
150 164.5 0.0 345.0





#73
Isopropylbenzene
Concen: 20.035 ug/l
RT: 12.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

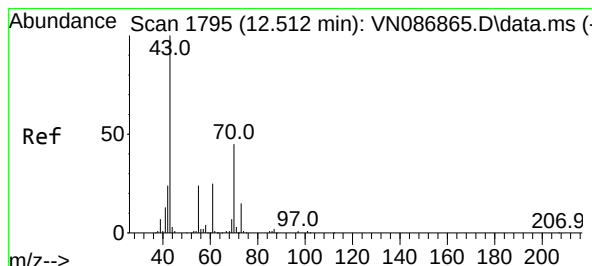
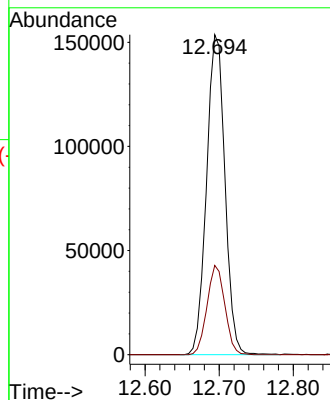
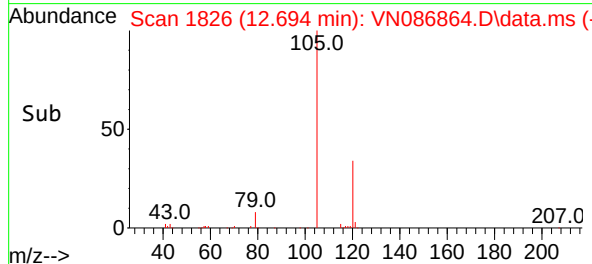
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:105 Resp: 26444
Ion Ratio Lower Upper
105 100
120 27.0 13.5 40.4

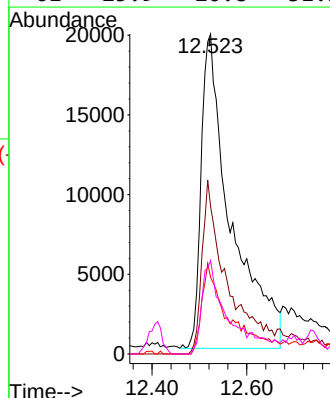
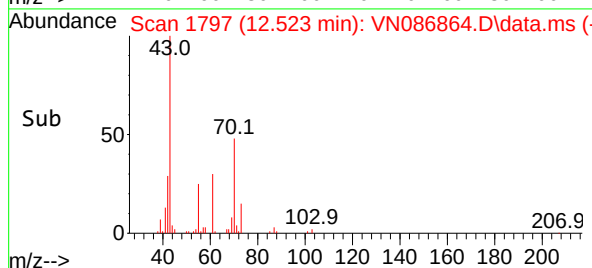
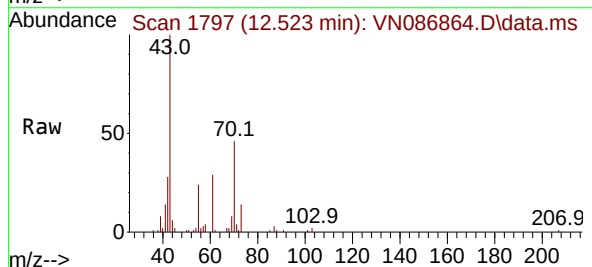
Manual Integrations
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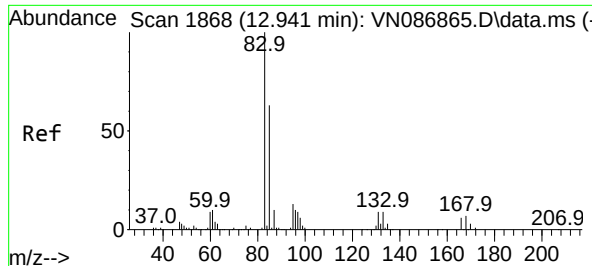
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#74
N-ethyl acetate
Concen: 19.633 ug/l
RT: 12.523 min Scan# 1797
Delta R.T. 0.012 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 43 Resp: 86003
Ion Ratio Lower Upper
43 100
70 47.7 37.6 56.4
55 26.6 19.0 28.6
61 25.9 20.8 31.2





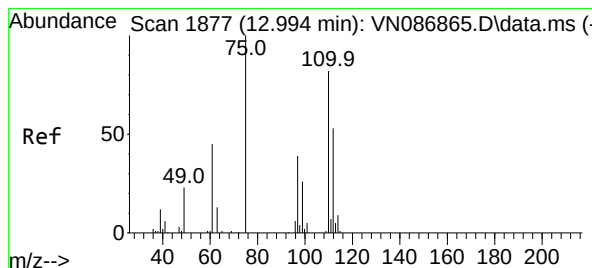
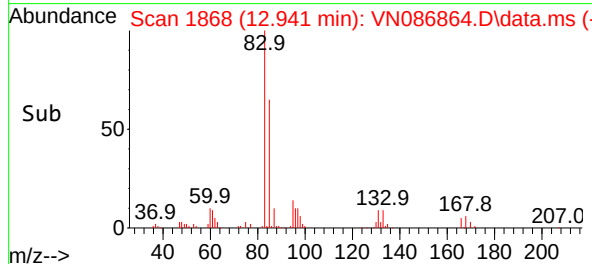
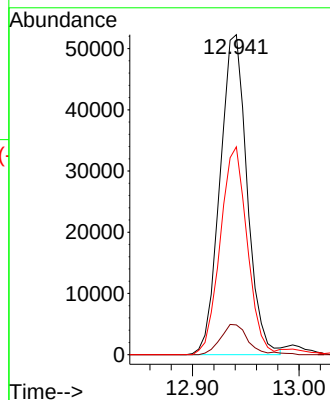
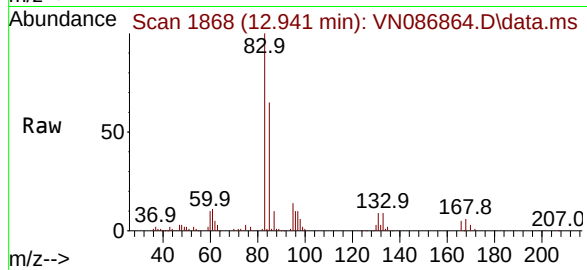
#75
1,1,2-Tetrachloroethane
Concen: 20.634 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 92264
Ion Ratio Lower Upper
83 100
131 9.8 4.9 14.7
85 64.5 32.0 96.0

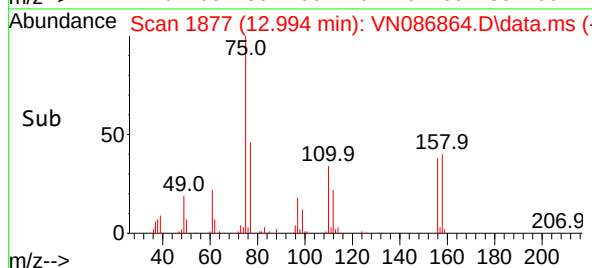
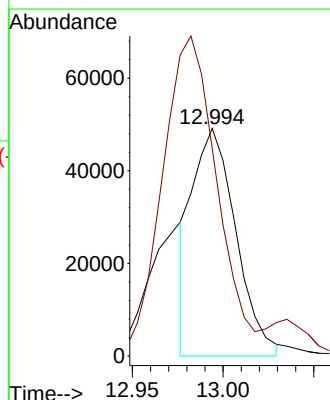
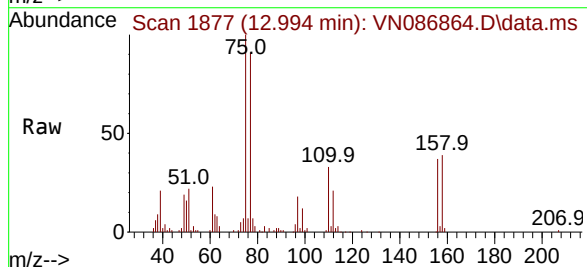
Manual Integrations
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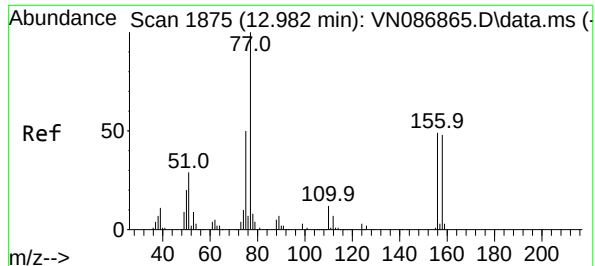
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#76
1,2,3-Trichloropropane
Concen: 18.945 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 75 Resp: 81846
Ion Ratio Lower Upper
75 100
77 176.5 79.3 237.9





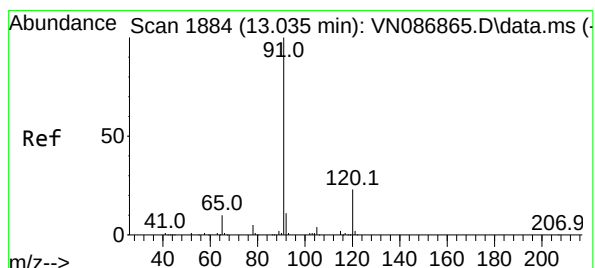
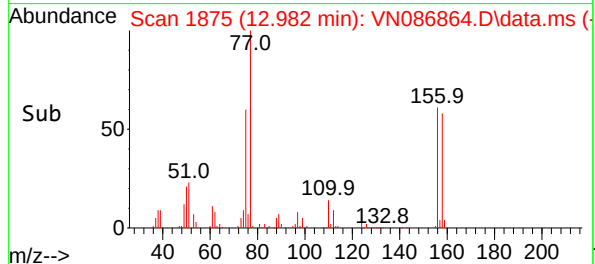
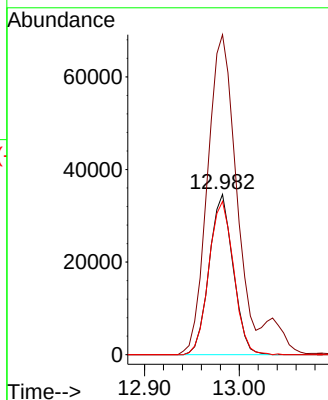
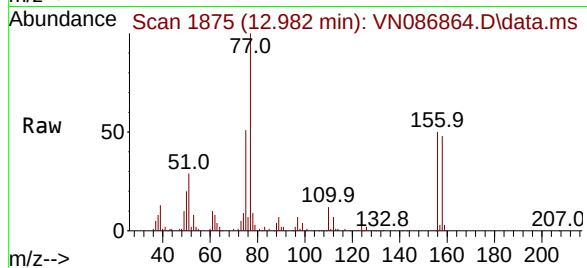
#77
Bromobenzene
Concen: 20.111 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:156 Resp: 6087
Ion Ratio Lower Upper
156 100
77 237.3 117.7 353.1
158 99.0 48.1 144.4

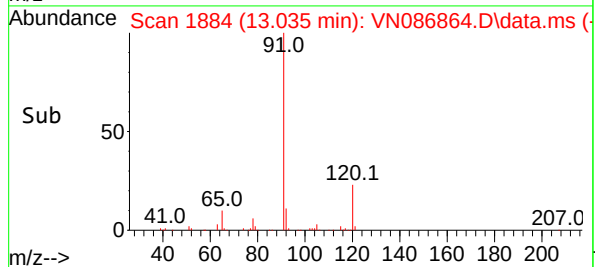
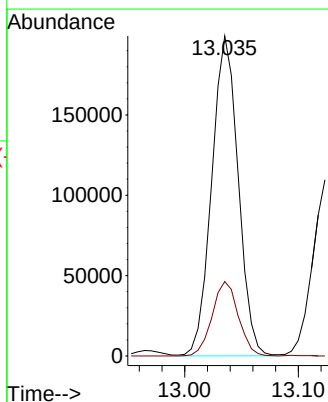
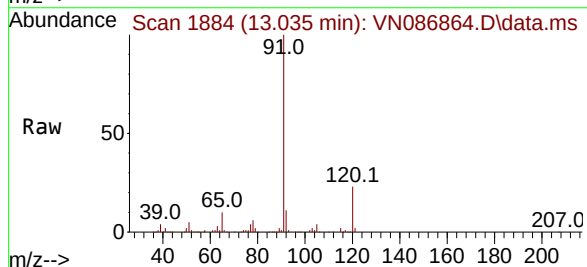
Manual Integrations
APPROVED

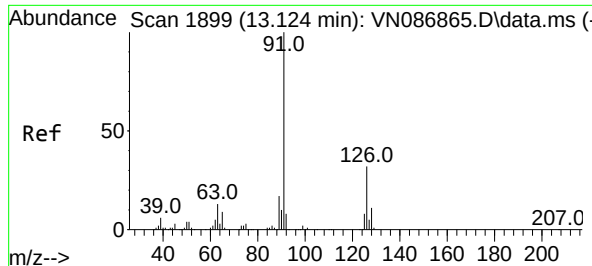
Reviewed By :John Carbone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#78
n-propylbenzene
Concen: 20.102 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion: 91 Resp: 322436
Ion Ratio Lower Upper
91 100
120 22.9 11.4 34.2





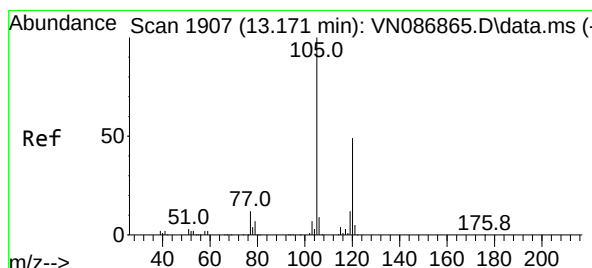
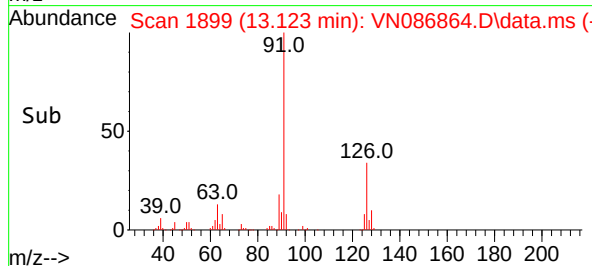
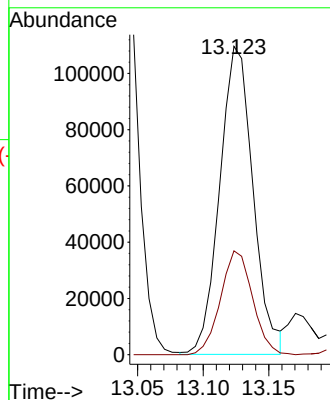
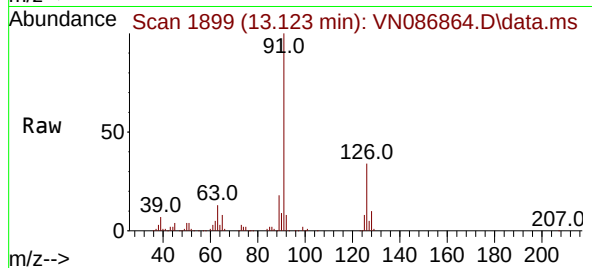
#79
2-Chlorotoluene
Concen: 20.144 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion: 91 Resp: 193774
Ion Ratio Lower Upper
91 100
126 32.3 16.2 48.5

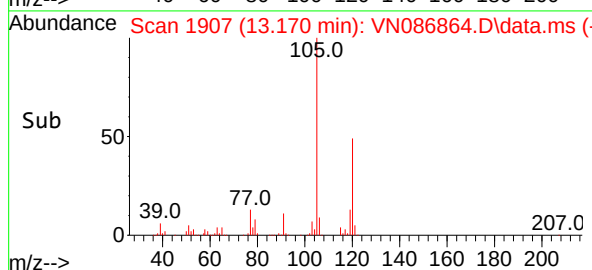
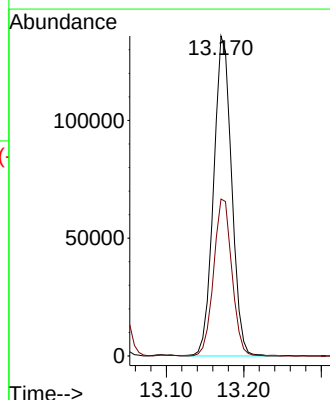
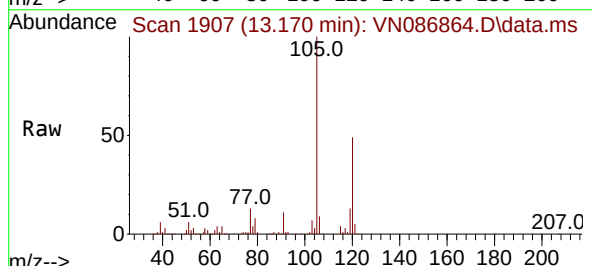
Manual Integrations
APPROVED

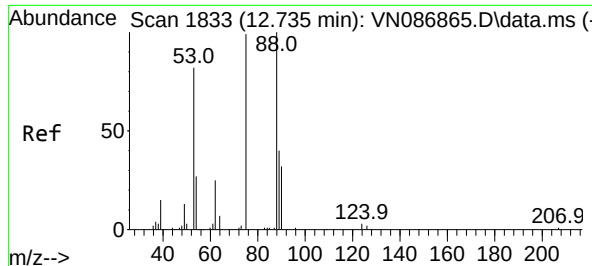
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#80
1,3,5-Trimethylbenzene
Concen: 20.183 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

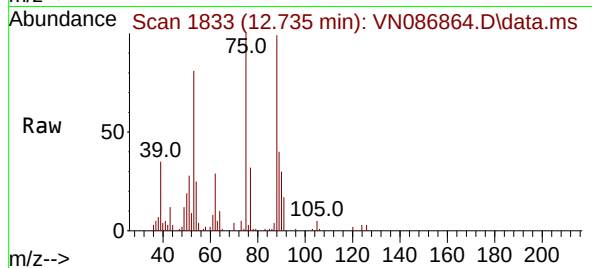
Tgt Ion:105 Resp: 219937
Ion Ratio Lower Upper
105 100
120 49.6 24.9 74.6





#81
trans-1,4-Dichloro-2-butene
Concen: 20.209 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

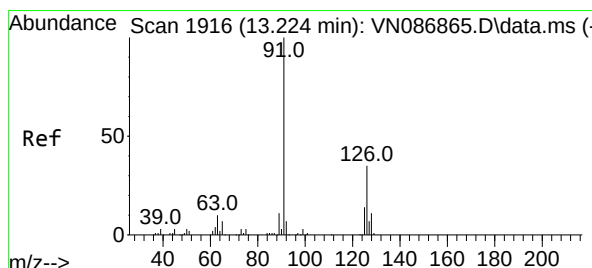
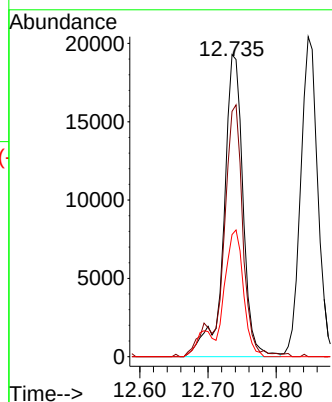
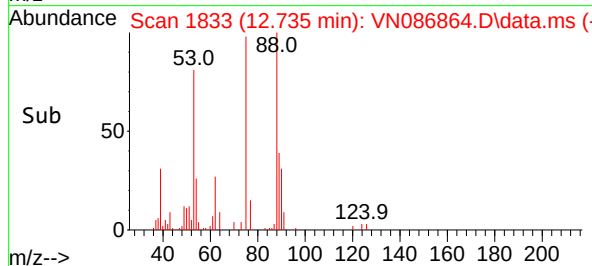
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion: 75 Resp: 37808
Ion Ratio Lower Upper
75 100
53 77.3 66.6 99.8
89 39.6 36.7 55.1

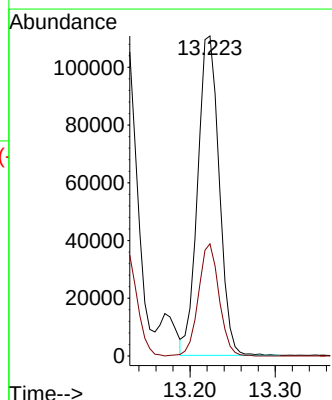
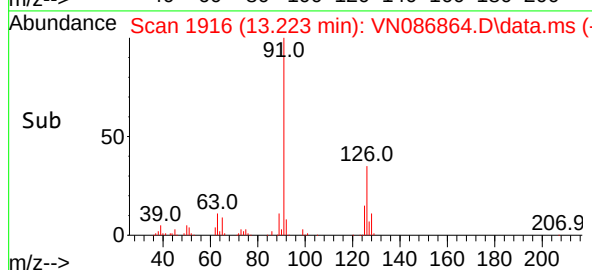
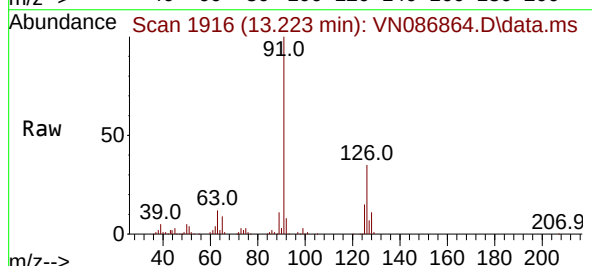
Manual Integrations
APPROVED

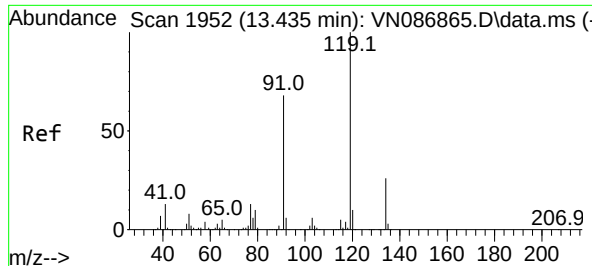
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#82
4-Chlorotoluene
Concen: 19.885 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

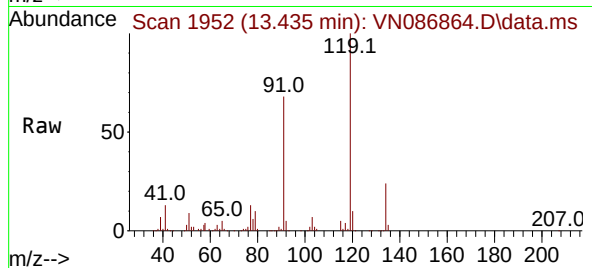
Tgt Ion: 91 Resp: 193544
Ion Ratio Lower Upper
91 100
126 33.7 16.7 50.1





#83
tert-Butylbenzene
Concen: 19.880 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

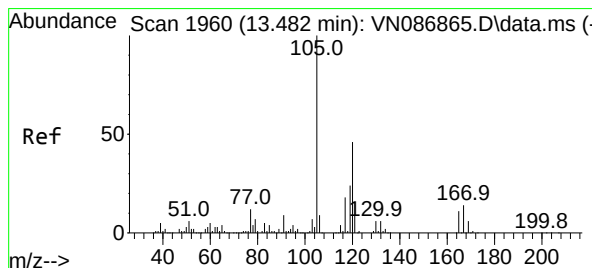
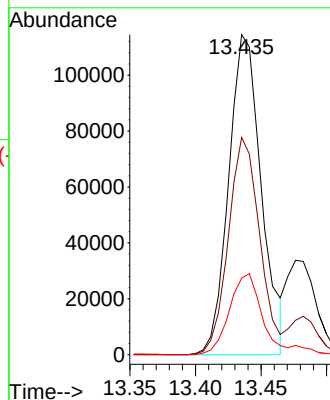
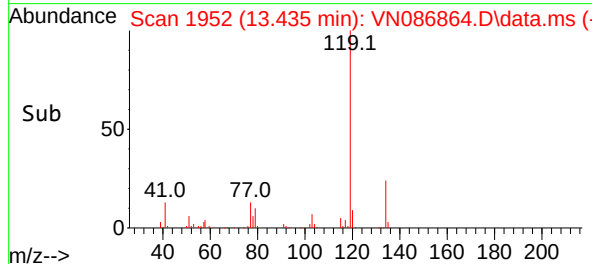
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020



Tgt Ion:119 Resp: 19830
Ion Ratio Lower Upper
119 100
91 65.2 32.1 96.5
134 26.5 13.4 40.1

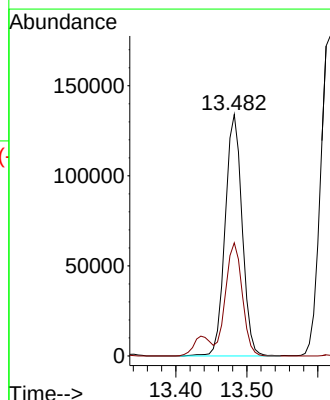
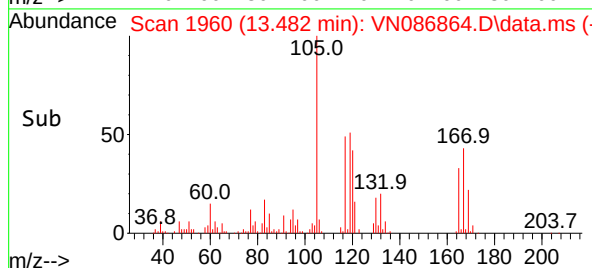
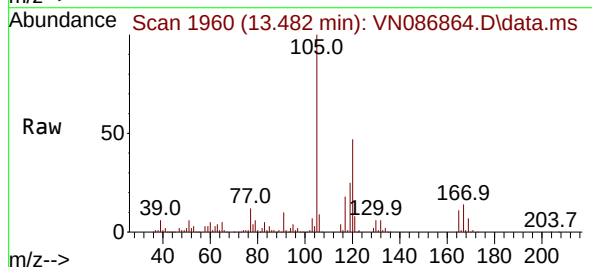
Manual Integrations
APPROVED

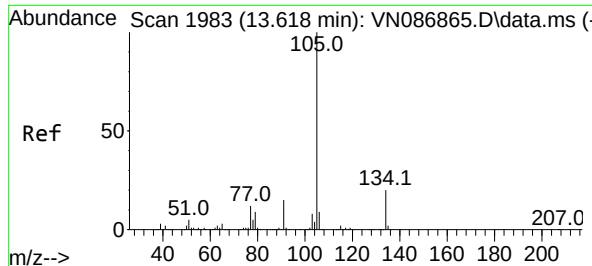
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#84
1,2,4-Trimethylbenzene
Concen: 20.315 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:105 Resp: 221990
Ion Ratio Lower Upper
105 100
120 46.1 23.2 69.6





#85

sec-Butylbenzene

Concen: 20.196 ug/l

RT: 13.617 min Scan# 1983

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

Tgt Ion:105 Resp: 29256

Ion Ratio Lower Upper

105 100

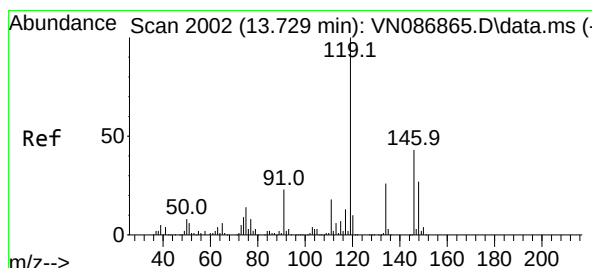
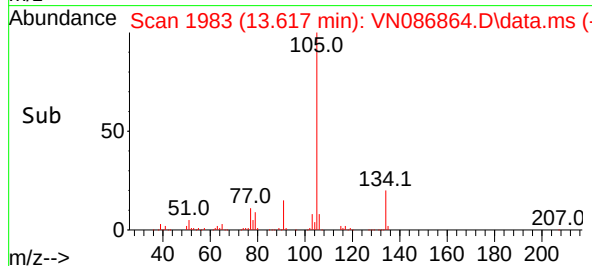
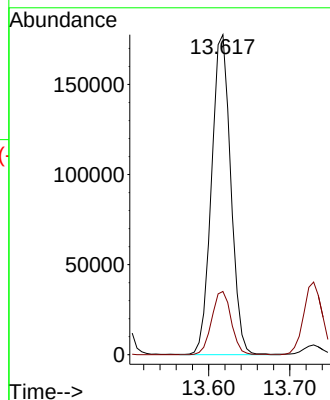
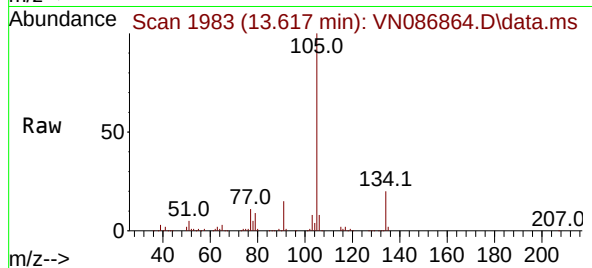
134 20.0 10.0 30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#86

p-Isopropyltoluene

Concen: 20.099 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

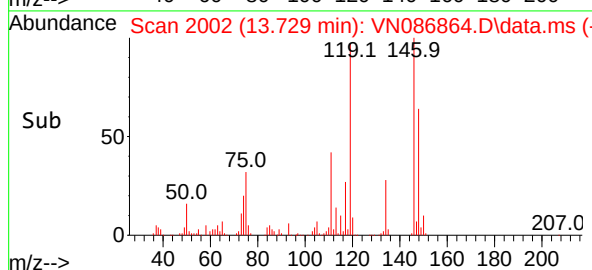
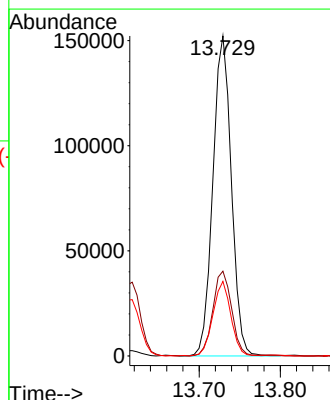
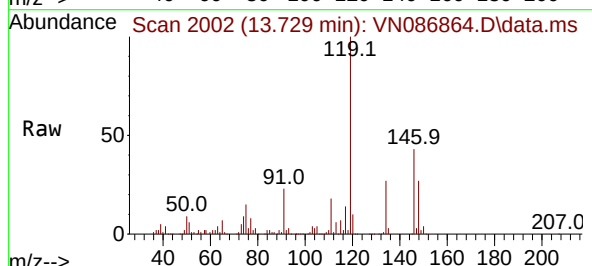
Tgt Ion:119 Resp: 240682

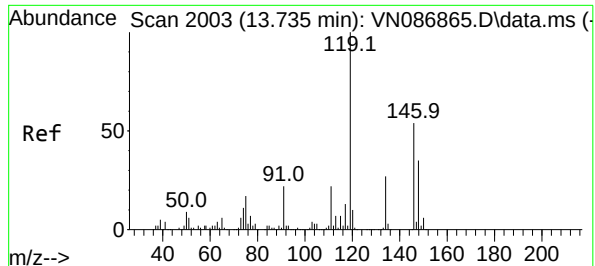
Ion Ratio Lower Upper

119 100

134 27.1 13.5 40.4

91 22.7 11.5 34.4





#87

1,3-Dichlorobenzene

Concen: 20.166 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC020

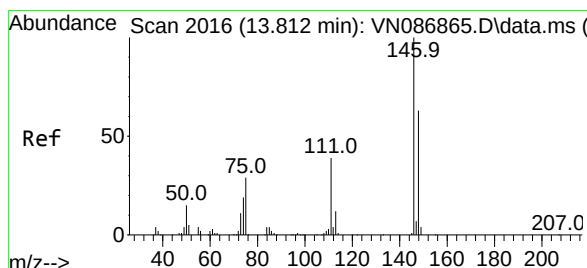
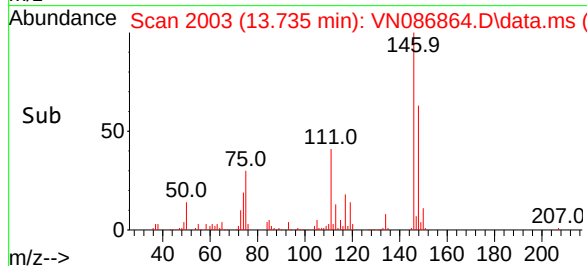
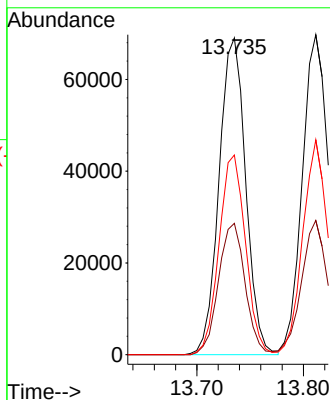
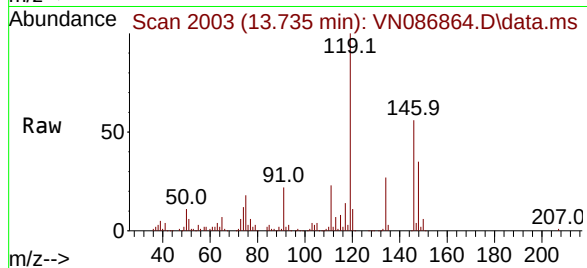
Tgt Ion:	146	Resp:	12009
Ion Ratio	Lower	Upper	
146	100		
111	41.5	20.9	62.8
148	62.5	32.0	96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 19.780 ug/l

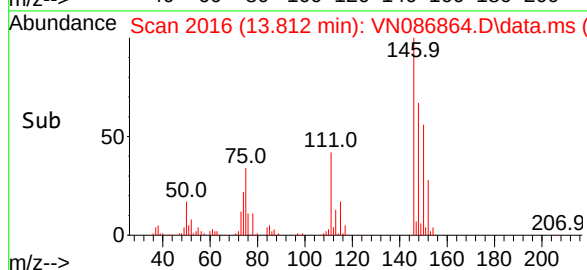
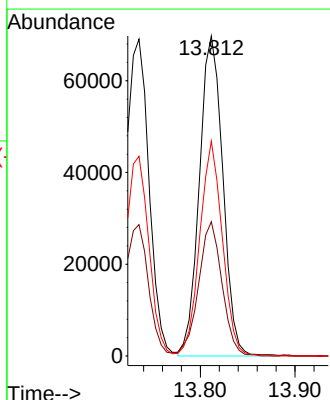
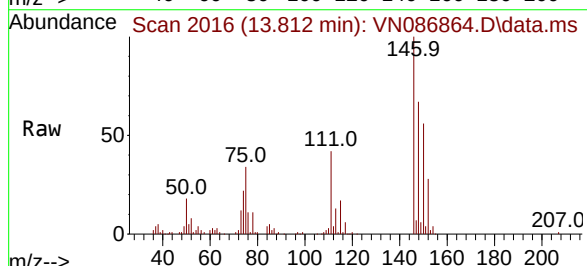
RT: 13.812 min Scan# 2016

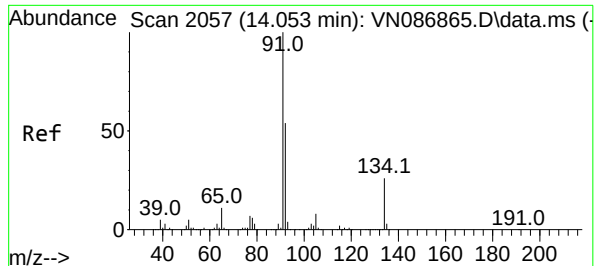
Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Tgt Ion:	146	Resp:	120102
Ion Ratio	Lower	Upper	
146	100		
111	42.5	19.9	59.7
148	64.7	31.8	95.4





#89

n-Butylbenzene

Concen: 19.617 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC020

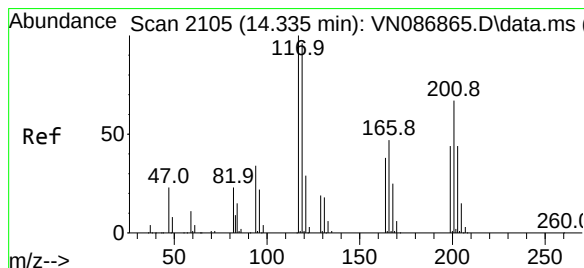
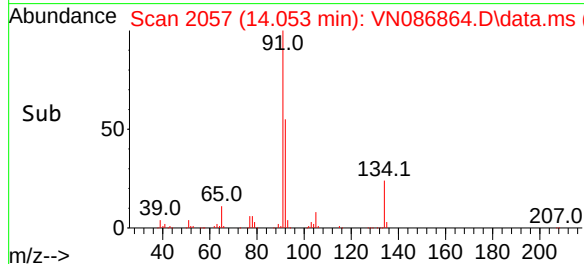
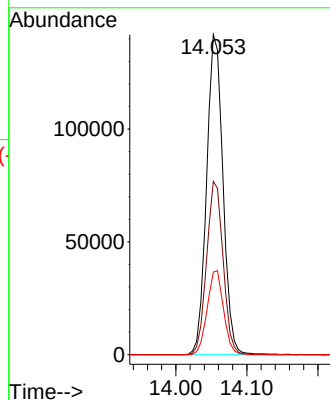
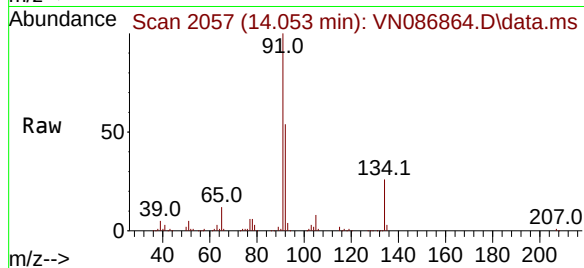
Tgt Ion:	91	Resp:	22753
Ion	Ratio	Lower	Upper
91	100		
92	54.5	27.5	82.4
134	26.2	13.0	39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 20.299 ug/l

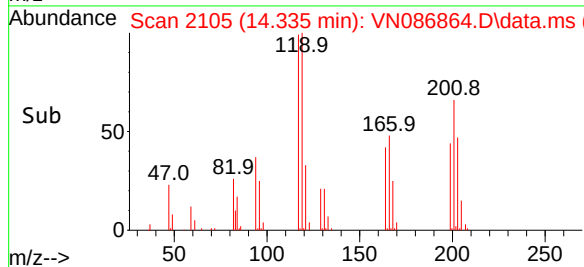
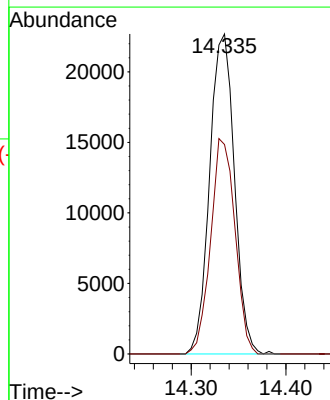
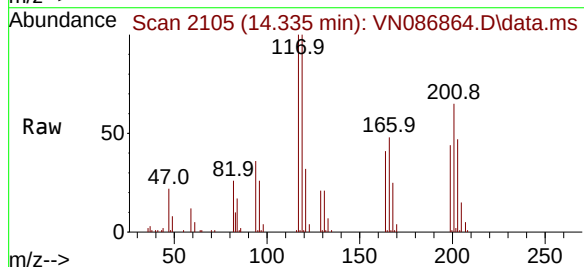
RT: 14.335 min Scan# 2105

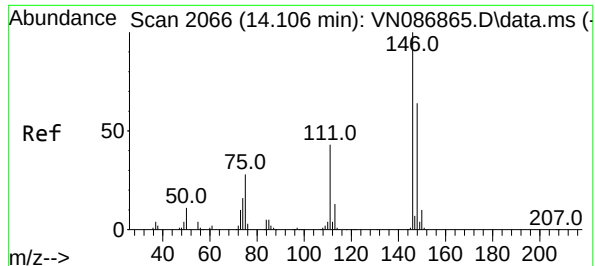
Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Tgt Ion:	117	Resp:	41202
Ion	Ratio	Lower	Upper
117	100		
201	66.2	33.2	99.6





#91

1,2-Dichlorobenzene

Concen: 20.212 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

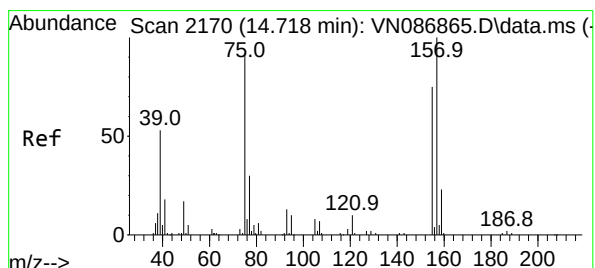
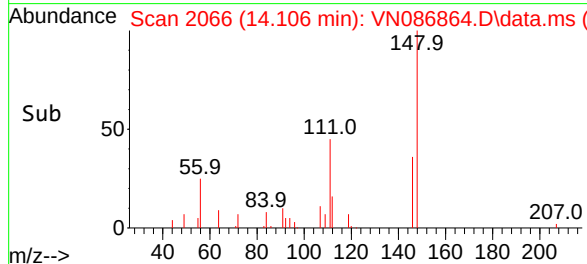
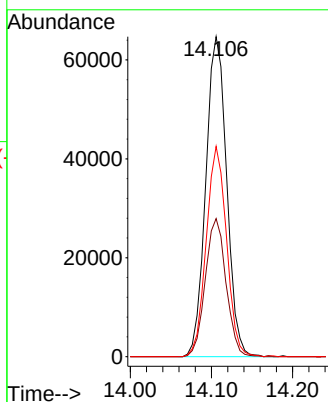
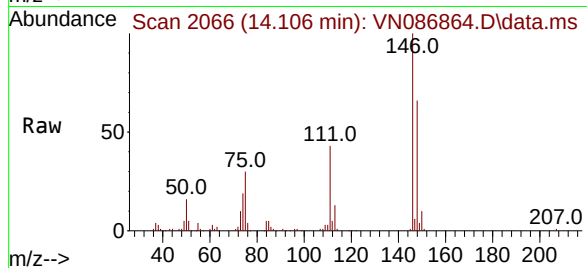
ClientSampleId :

VSTDICC020

Tgt Ion:	146	Resp:	11564
Ion Ratio	Lower	Upper	
146	100		
111	42.9	21.6	64.6
148	63.9	31.7	95.1

Manual Integrations
APPROVED

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



#92

1,2-Dibromo-3-Chloropropane

Concen: 19.661 ug/l

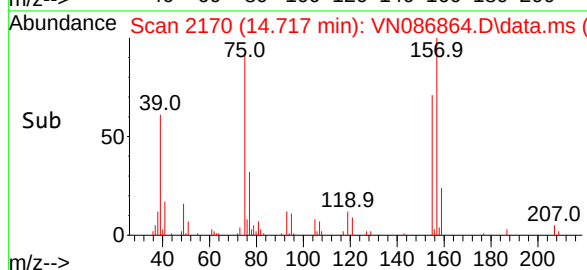
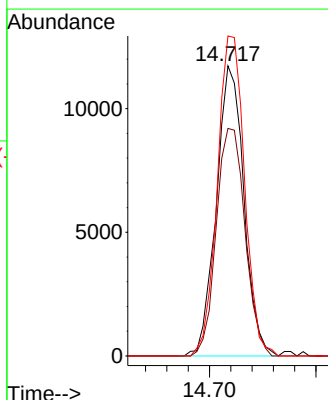
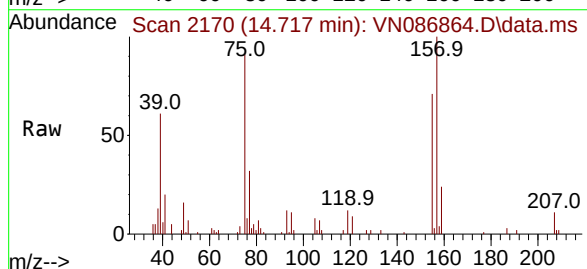
RT: 14.717 min Scan# 2170

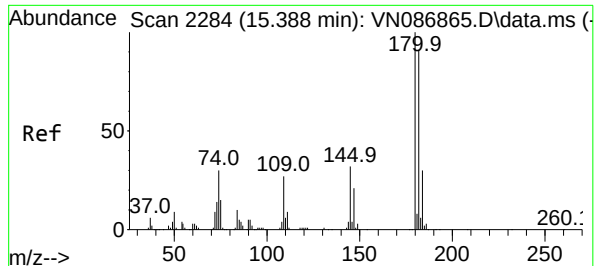
Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Tgt Ion:	75	Resp:	21025
Ion Ratio	Lower	Upper	
75	100		
155	81.8	41.1	123.4
157	109.0	52.7	158.1





#93

1,2,4-Trichlorobenzene

Concen: 19.659 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Instrument :

MSVOA_N

ClientSampleId :

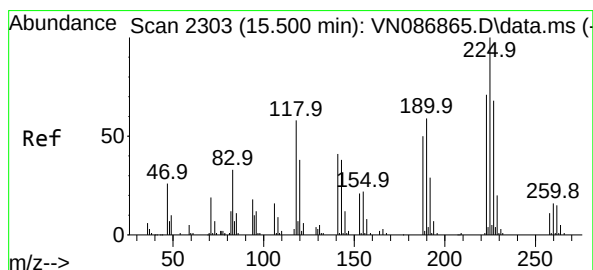
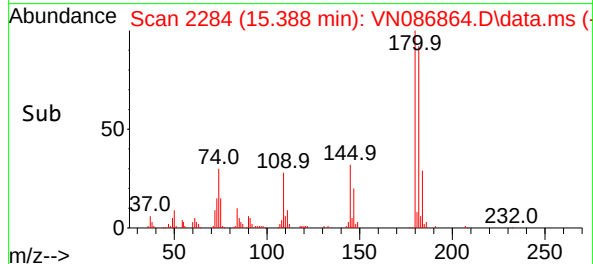
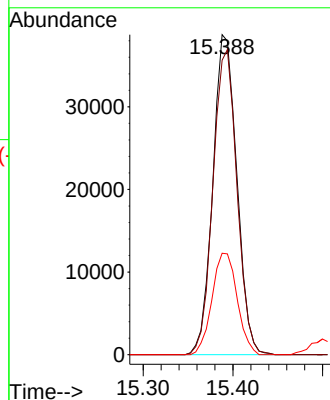
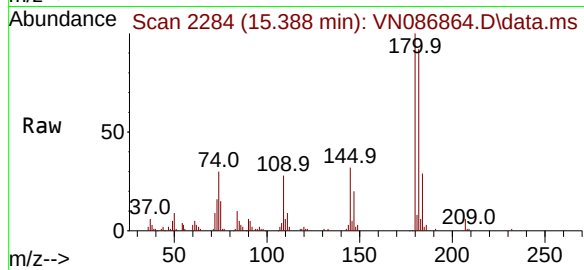
VSTDICC020

Tgt Ion:	180	Resp:	71820
Ion Ratio	Lower	Upper	
180	100		
182	95.4	46.9	140.7
145	33.3	16.0	47.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#94

Hexachlorobutadiene

Concen: 20.486 ug/l

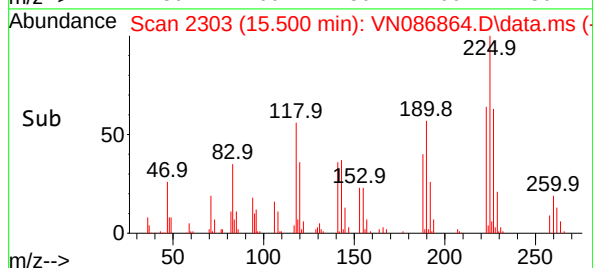
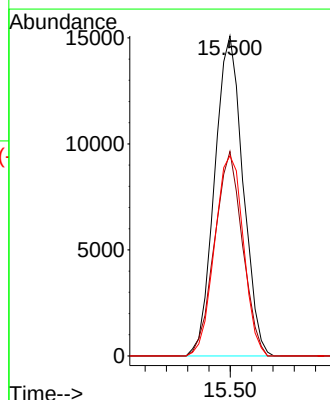
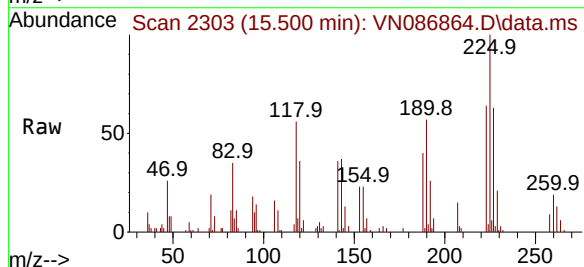
RT: 15.500 min Scan# 2303

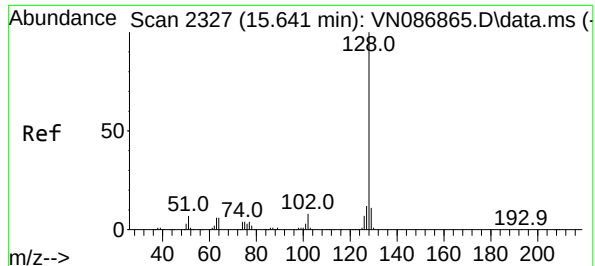
Delta R.T. -0.000 min

Lab File: VN086864.D

Acq: 06 Jun 2025 13:40

Tgt Ion:	225	Resp:	27887
Ion Ratio	Lower	Upper	
225	100		
223	63.0	33.5	100.4
227	63.3	31.1	93.5





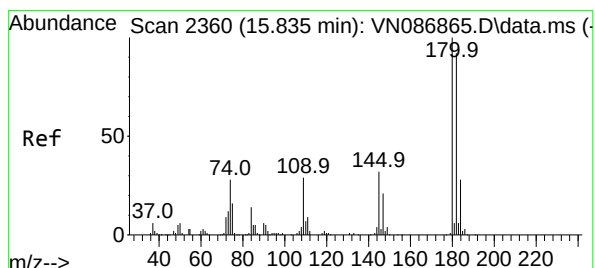
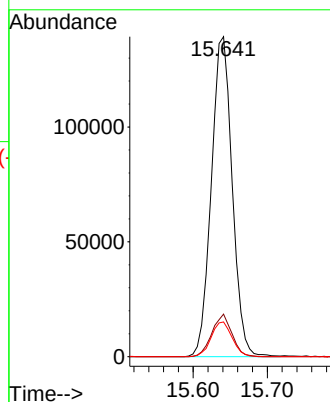
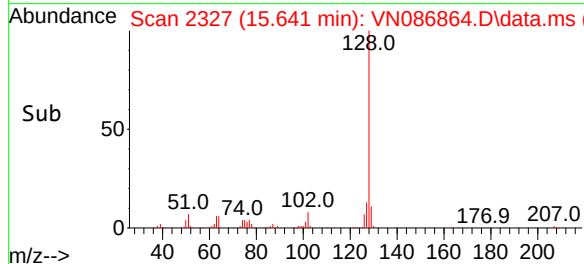
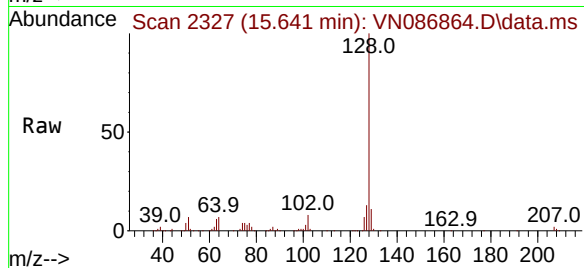
#95
Naphthalene
Concen: 20.043 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC020

Tgt Ion:128 Resp: 272584
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 11.0 8.8 13.2

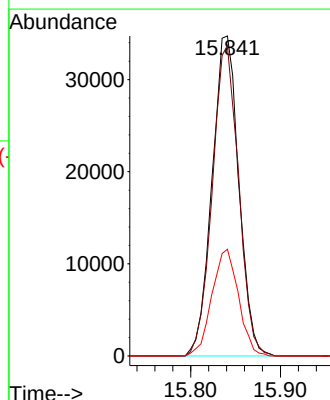
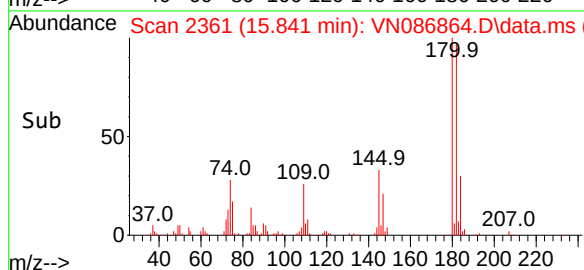
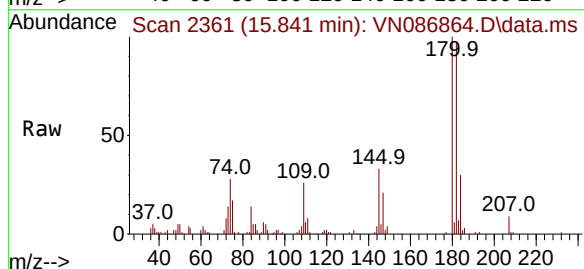
Manual Integrations
APPROVED

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



#96
1,2,3-Trichlorobenzene
Concen: 19.815 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086864.D
Acq: 06 Jun 2025 13:40

Tgt Ion:180 Resp: 71929
Ion Ratio Lower Upper
180 100
182 95.3 47.0 141.0
145 33.1 16.6 49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086865.D
 Acq On : 06 Jun 2025 14:03
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Manual Integrations APPROVED

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

Quant Time: Jun 07 01:57:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.236	168	207354	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	378587	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	332766	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	167532	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.588	65	103736	37.366	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	74.740%
35) Dibromofluoromethane	8.171	113	83058	37.020	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	74.040%#
50) Toluene-d8	10.571	98	326105	36.716	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	73.440%#
62) 4-Bromofluorobenzene	12.847	95	122965	37.264	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	74.520%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.154	85	103958	50.283	ug/l	100
3) Chloromethane	2.395	50	123866	46.397	ug/l	100
4) Vinyl Chloride	2.554	62	132783	48.215	ug/l	100
5) Bromomethane	2.995	94	73974	47.999	ug/l	100
6) Chloroethane	3.154	64	84505	47.504	ug/l	100
7) Trichlorofluoromethane	3.524	101	172860	48.041	ug/l	100
8) Diethyl Ether	3.983	74	75193	47.963	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.395	101	107695	47.640	ug/l	100
10) Methyl Iodide	4.606	142	141678	48.346	ug/l	100
11) Tert butyl alcohol	5.548	59	182315	242.020	ug/l	100
12) 1,1-Dichloroethene	4.359	96	110549	47.900	ug/l	100
13) Acrolein	4.201	56	47026	197.217	ug/l	100
14) Allyl chloride	5.042	41	179313	46.848	ug/l	100
15) Acrylonitrile	5.742	53	421941	239.638	ug/l	100
16) Acetone	4.448	43	333857	226.765	ug/l	100
17) Carbon Disulfide	4.730	76	295753	46.328	ug/l	100
18) Methyl Acetate	5.042	43	204538	47.673	ug/l	100
19) Methyl tert-butyl Ether	5.812	73	400775	47.960	ug/l	100
20) Methylene Chloride	5.295	84	125498	45.531	ug/l	100
21) trans-1,2-Dichloroethene	5.806	96	117660	45.822	ug/l	100
22) Diisopropyl ether	6.689	45	384939	47.711	ug/l	100
23) Vinyl Acetate	6.618	43	1649023	241.910	ug/l	100
24) 1,1-Dichloroethane	6.583	63	220477	47.485	ug/l	100
25) 2-Butanone	7.494	43	571221	238.693	ug/l	100
26) 2,2-Dichloropropane	7.500	77	187567	51.933	ug/l	100
27) cis-1,2-Dichloroethene	7.500	96	144911	47.189	ug/l	100
28) Bromochloromethane	7.824	49	96707	42.362	ug/l	100
29) Tetrahydrofuran	7.853	42	371357	238.210	ug/l	100
30) Chloroform	7.977	83	220093	47.467	ug/l	100
31) Cyclohexane	8.271	56	208105	46.217	ug/l	100
32) 1,1,1-Trichloroethane	8.177	97	185502	47.037	ug/l	100
36) 1,1-Dichloropropene	8.377	75	158341	47.362	ug/l	100
37) Ethyl Acetate	7.577	43	203091	47.720	ug/l	100
38) Carbon Tetrachloride	8.371	117	154677	47.126	ug/l	100
39) Methylcyclohexane	9.606	83	215849	47.126	ug/l	100
40) Benzene	8.612	78	509334	46.590	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086865.D
 Acq On : 06 Jun 2025 14:03
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC050

Quant Time: Jun 07 01:57:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.789	41	114727	48.000	ug/l	100
42) 1,2-Dichloroethane	8.677	62	155713	46.960	ug/l	100
43) Isopropyl Acetate	8.694	43	322741	47.248	ug/l	100
44) Trichloroethene	9.359	130	123847	47.776	ug/l	100
45) 1,2-Dichloropropane	9.630	63	125673	47.251	ug/l	100
46) Dibromomethane	9.718	93	83811	47.442	ug/l	100
47) Bromodichloromethane	9.894	83	173200	47.651	ug/l	100
48) Methyl methacrylate	9.683	41	149019	47.399	ug/l	100
49) 1,4-Dioxane	9.700	88	59060	1032.607	ug/l #	100
51) 4-Methyl-2-Pentanone	10.447	43	1017688	247.484	ug/l	100
52) Toluene	10.635	92	316219	47.331	ug/l	100
53) t-1,3-Dichloropropene	10.841	75	197475	48.587	ug/l	100
54) cis-1,3-Dichloropropene	10.318	75	208523	47.950	ug/l	100
55) 1,1,2-Trichloroethane	11.018	97	121969	47.445	ug/l	100
56) Ethyl methacrylate	10.882	69	210467	51.401	ug/l	100
57) 1,3-Dichloropropane	11.165	76	212243	47.593	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.165	63	519139	212.570	ug/l	100
59) 2-Hexanone	11.200	43	696567	262.977	ug/l	100
60) Dibromochloromethane	11.359	129	128715	48.056	ug/l	100
61) 1,2-Dibromoethane	11.471	107	124522	47.258	ug/l	100
64) Tetrachloroethene	11.106	164	97679	46.382	ug/l	100
65) Chlorobenzene	11.894	112	340439	46.386	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.965	131	112333	47.615	ug/l	100
67) Ethyl Benzene	11.965	91	597593	47.271	ug/l	100
68) m/p-Xylenes	12.071	106	466620	96.424	ug/l	100
69) o-Xylene	12.400	106	224299	48.395	ug/l	100
70) Styrene	12.412	104	386596	48.745	ug/l	100
71) Bromoform	12.582	173	88127	50.415	ug/l #	100
73) Isopropylbenzene	12.694	105	573905	47.023	ug/l	100
74) N-amyl acetate	12.512	43	212064	52.353	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.941	83	197360	47.732	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	196473m	49.183	ug/l	
77) Bromobenzene	12.982	156	132381	47.296	ug/l	100
78) n-propylbenzene	13.035	91	705524	47.567	ug/l	100
79) 2-Chlorotoluene	13.124	91	419986	47.216	ug/l	100
80) 1,3,5-Trimethylbenzene	13.171	105	485499	48.181	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	79732	46.089	ug/l	100
82) 4-Chlorotoluene	13.224	91	424066	47.117	ug/l	100
83) tert-Butylbenzene	13.435	119	438417	47.531	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	488189	48.314	ug/l	100
85) sec-Butylbenzene	13.618	105	641523	47.893	ug/l	100
86) p-Isopropyltoluene	13.729	119	533366	48.169	ug/l	100
87) 1,3-Dichlorobenzene	13.735	146	260310	47.269	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	263358	46.907	ug/l	100
89) n-Butylbenzene	14.053	91	512519	47.787	ug/l	100
90) Hexachloroethane	14.335	117	89896	47.896	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	251235	47.486	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.718	75	45535	46.049	ug/l	100
93) 1,2,4-Trichlorobenzene	15.388	180	162374	48.061	ug/l	100
94) Hexachlorobutadiene	15.500	225	60866	48.356	ug/l	100
95) Naphthalene	15.641	128	603088	47.958	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	159113	47.402	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086865.D
Acq On : 06 Jun 2025 14:03
Operator : JC\MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

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

Quant Time: Jun 07 01:57:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 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_N\Data\VN060625\
 Data File : VN086865.D
 Acq On : 06 Jun 2025 14:03
 Operator : JC\MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Manual Integrations

APPROVED

Reviewed By : John Carlone 06/09/2025

Supervised By : Mahesh Dadoda 06/09/2025

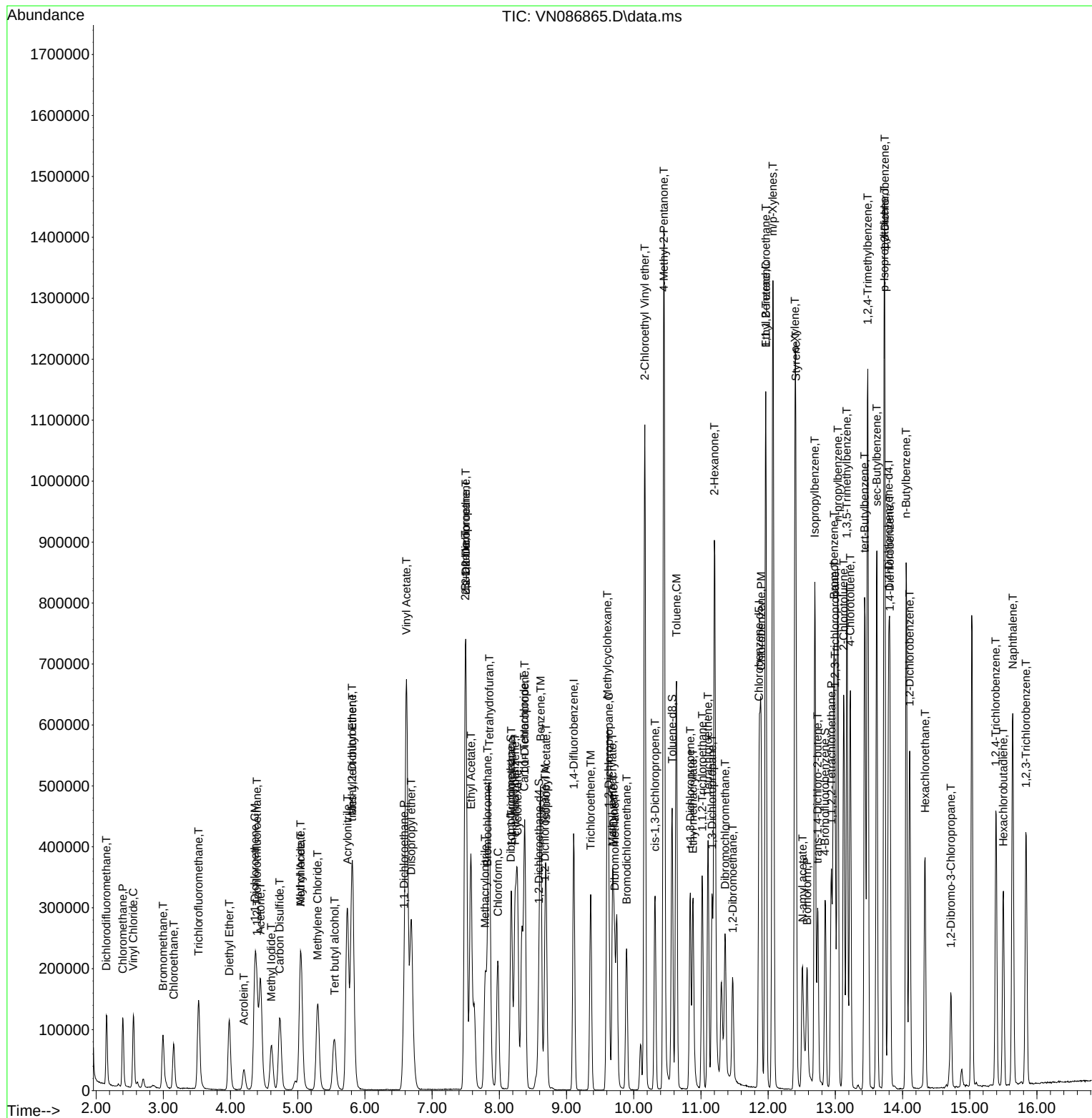
Quant Time: Jun 07 01:57:17 2025

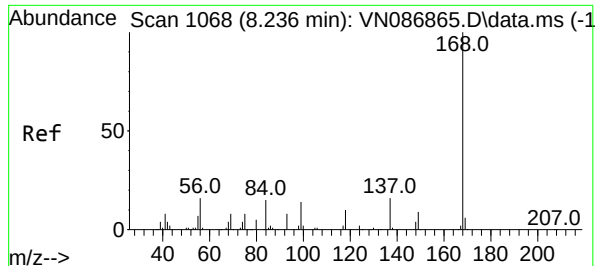
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M

Quant Title : SW846 8260

QLast Update : Sat Jun 07 01:51:02 2025

Response via : Initial Calibration





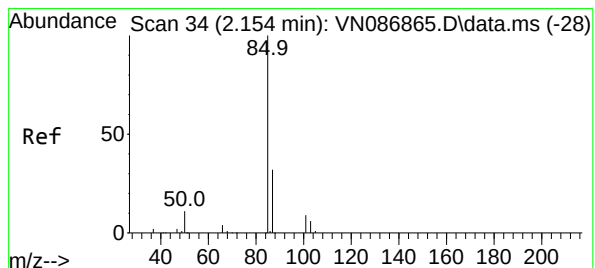
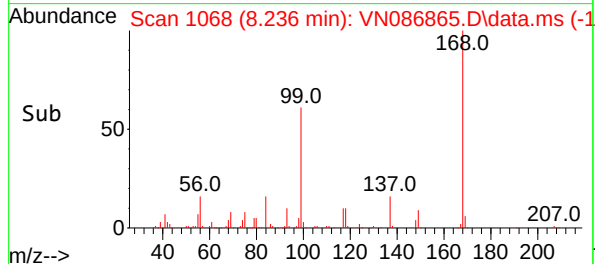
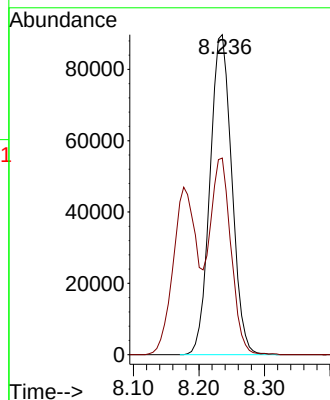
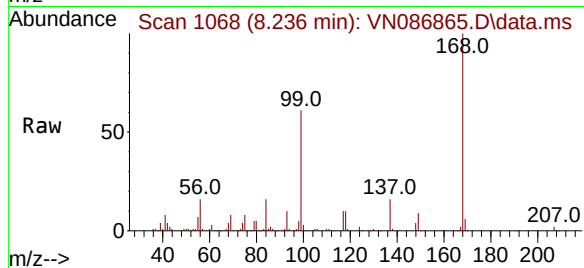
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 207354
Ion Ratio Lower Upper
168 100
99 61.4 49.1 73.7

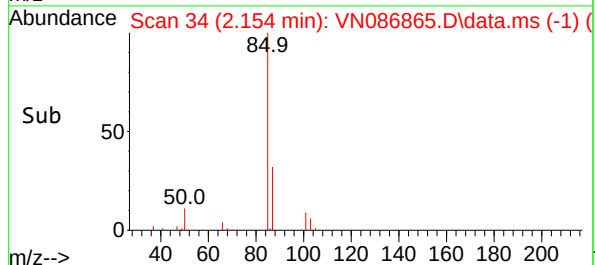
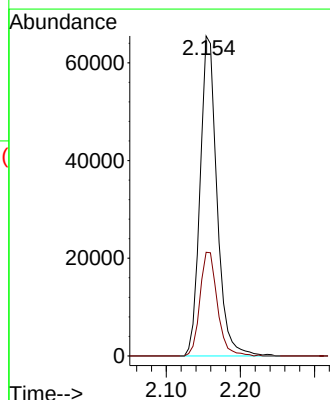
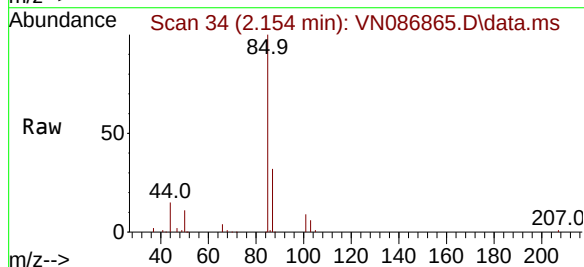
Manual Integrations
APPROVED

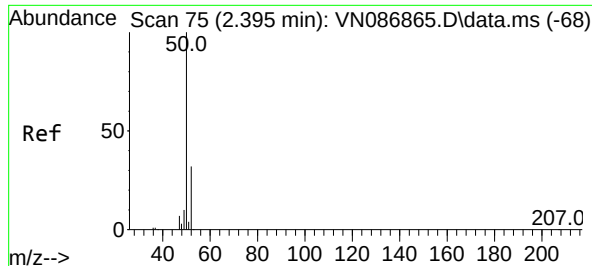
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 50.283 ug/l
RT: 2.154 min Scan# 34
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 85 Resp: 103958
Ion Ratio Lower Upper
85 100
87 32.4 16.2 48.6





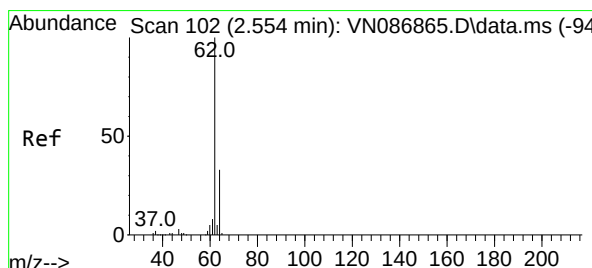
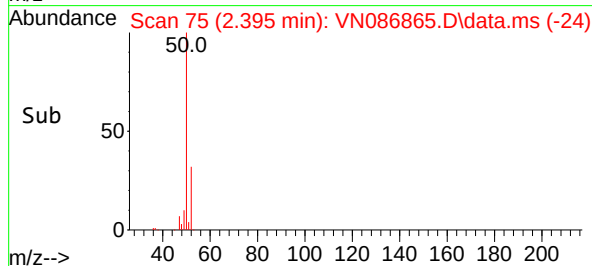
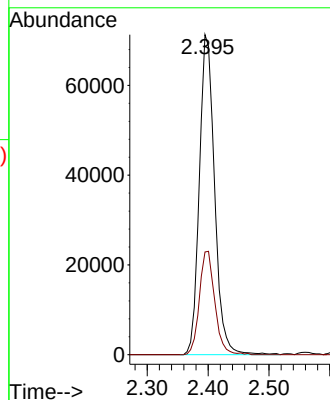
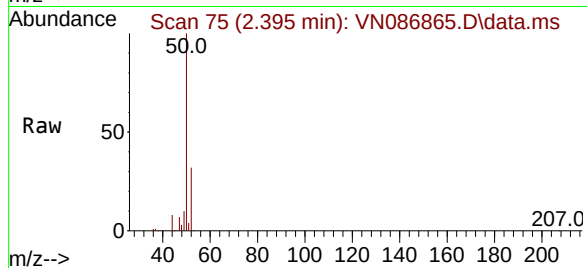
#3
Chloromethane
Concen: 46.397 ug/l
RT: 2.395 min Scan# 75
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 123860
Ion Ratio Lower Upper
50 100
52 32.1 25.7 38.5

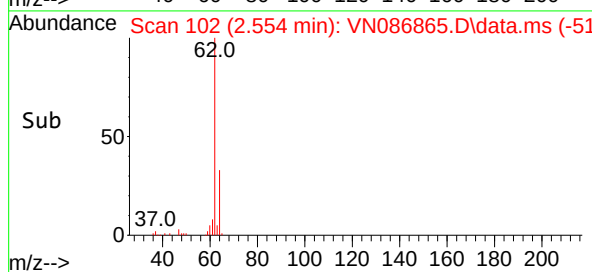
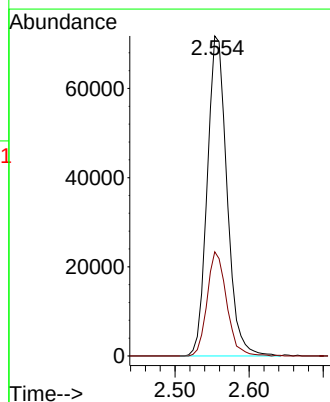
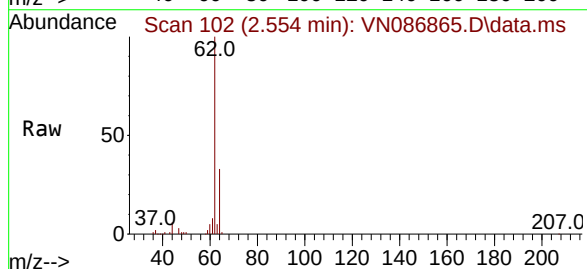
Manual Integrations
APPROVED

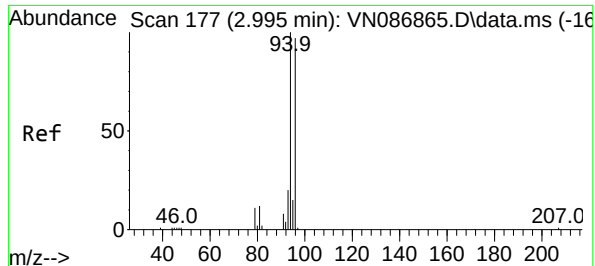
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 48.215 ug/l
RT: 2.554 min Scan# 102
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 62 Resp: 132783
Ion Ratio Lower Upper
62 100
64 32.5 26.0 39.0





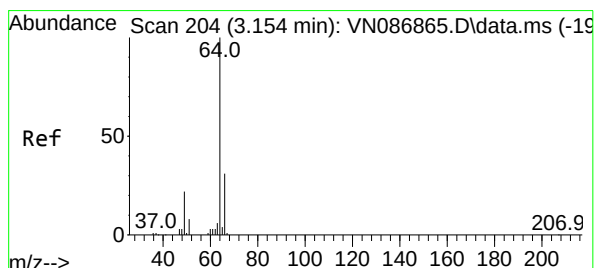
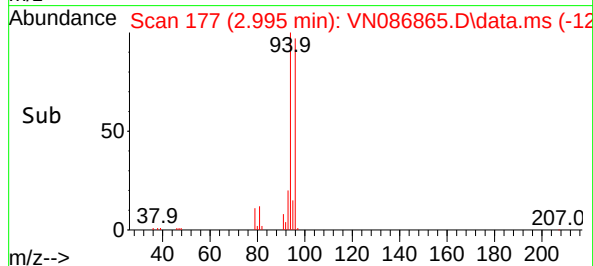
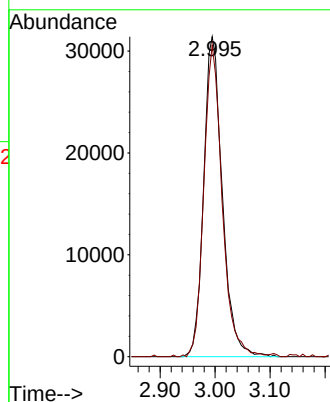
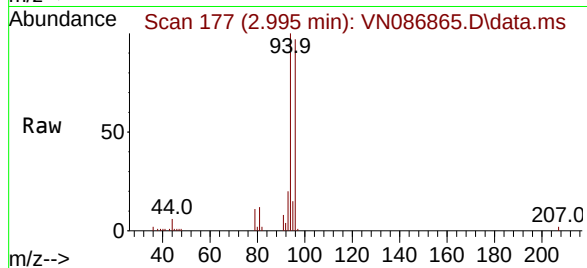
#5
Bromomethane
Concen: 47.999 ug/l
RT: 2.995 min Scan# 177
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 73974
Ion Ratio Lower Upper
94 100
96 97.4 77.9 116.9

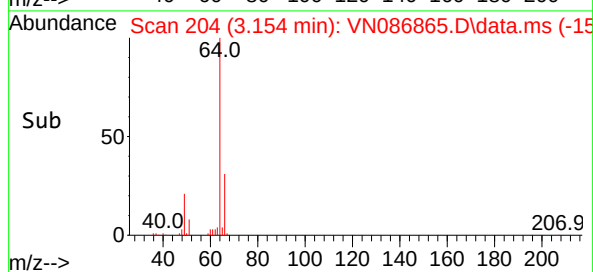
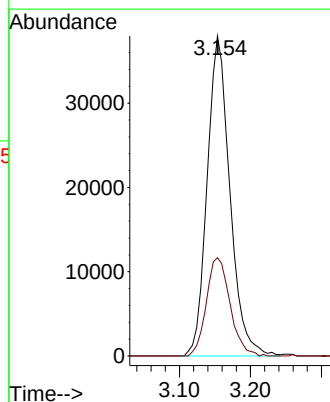
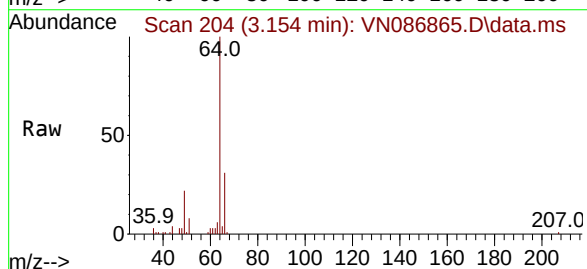
Manual Integrations
APPROVED

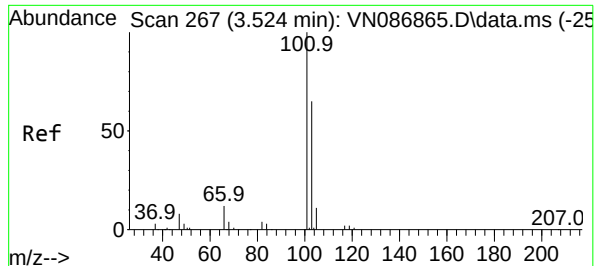
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#6
Chloroethane
Concen: 47.504 ug/l
RT: 3.154 min Scan# 204
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 64 Resp: 84505
Ion Ratio Lower Upper
64 100
66 30.7 24.6 36.8





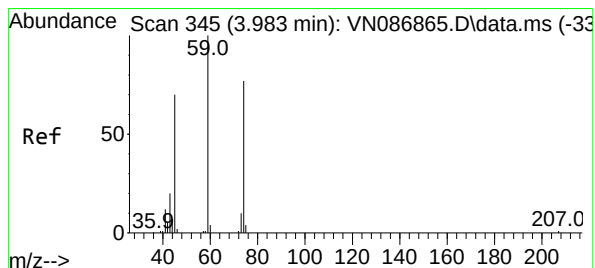
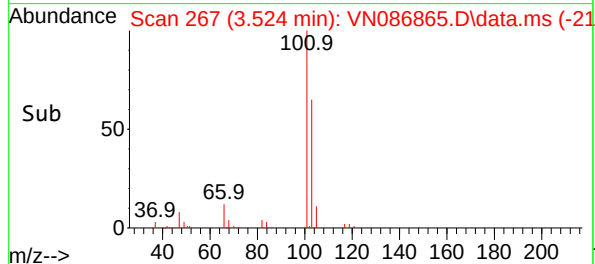
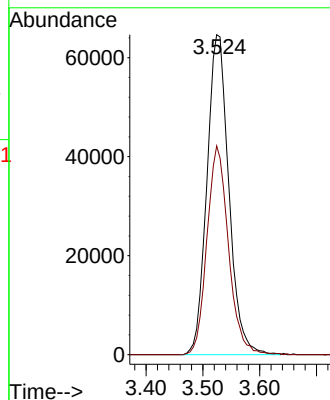
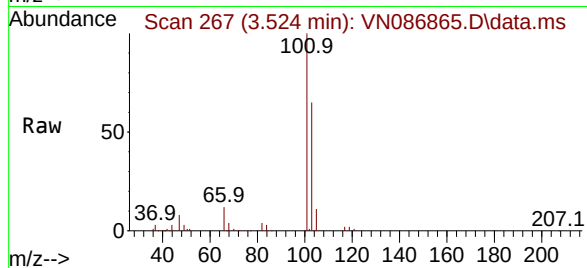
#7
Trichlorofluoromethane
Concen: 48.041 ug/l
RT: 3.524 min Scan# 267
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 101 Resp: 172860
Ion Ratio Lower Upper
101 100
103 65.2 52.2 78.2

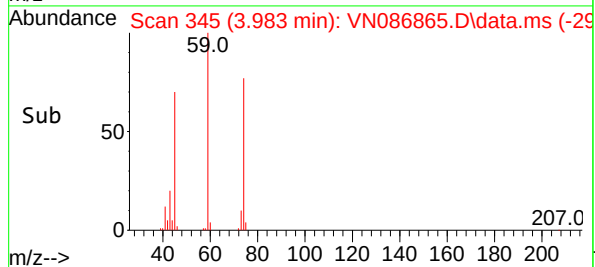
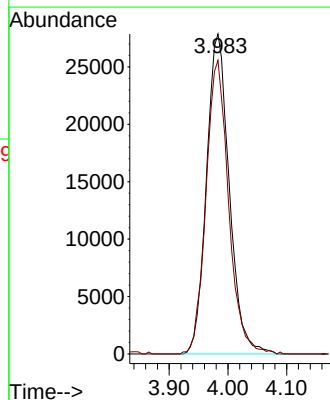
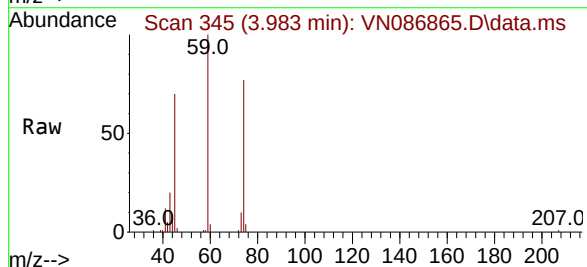
Manual Integrations
APPROVED

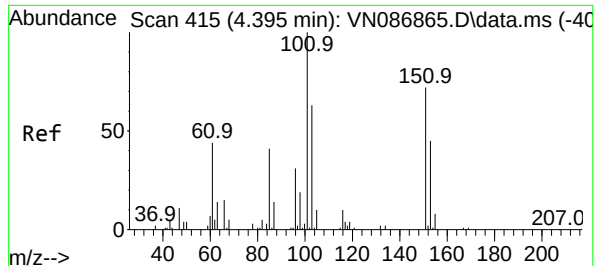
Reviewed By : John Carlone 06/09/2025
Supervised By : Mahesh Dadoda 06/09/2025



#8
Diethyl Ether
Concen: 47.963 ug/l
RT: 3.983 min Scan# 345
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 74 Resp: 75193
Ion Ratio Lower Upper
74 100
45 91.0 45.5 136.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.640 ug/l

RT: 4.395 min Scan# 415

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

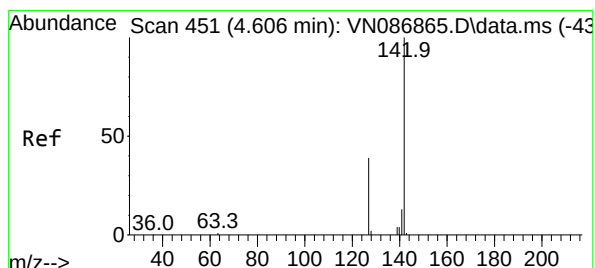
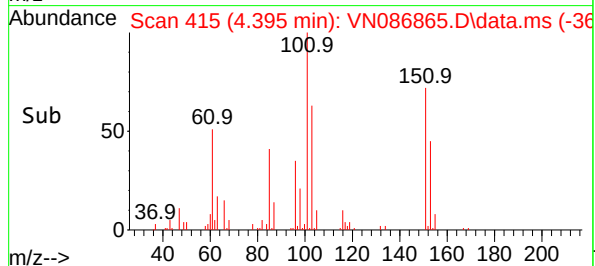
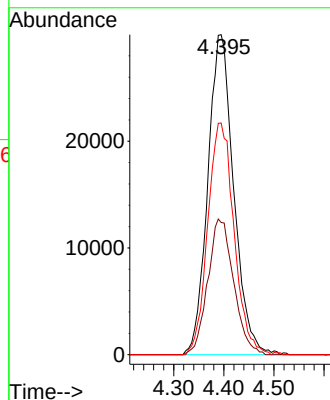
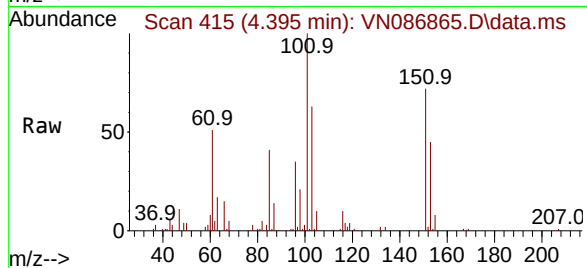
VSTDICCC050

Tgt Ion:	101	Resp:	10769
Ion	Ratio	Lower	Upper
101	100		
85	42.3	33.8	50.8
151	73.4	58.7	88.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#10

Methyl Iodide

Concen: 48.346 ug/l

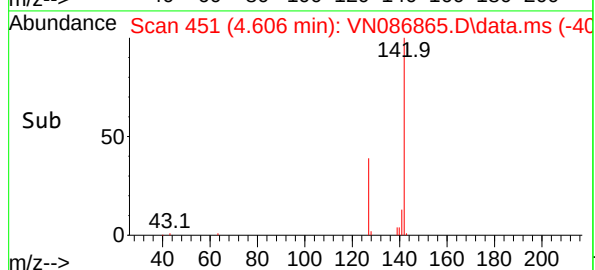
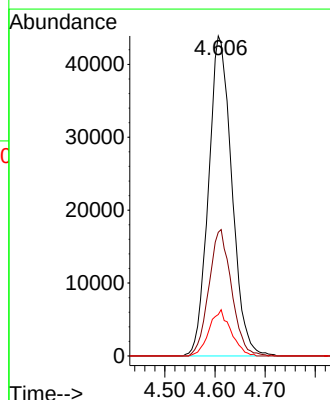
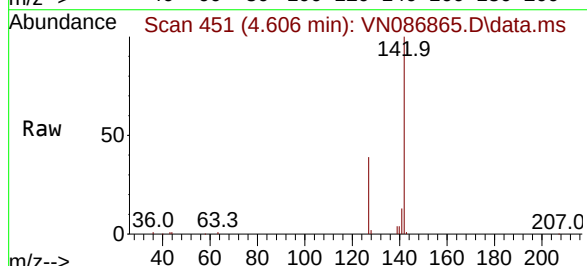
RT: 4.606 min Scan# 451

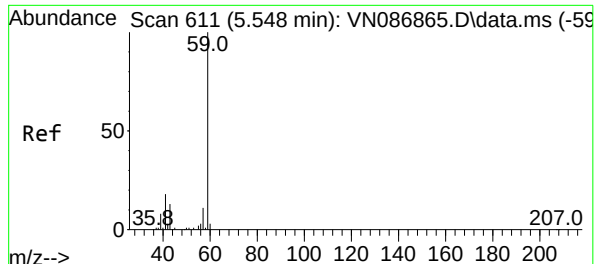
Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Tgt Ion:	142	Resp:	141678
Ion	Ratio	Lower	Upper
142	100		
127	38.6	30.9	46.3
141	13.0	10.4	15.6





#11

Tert butyl alcohol

Concen: 242.020 ug/l

RT: 5.548 min Scan# 611

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 18231

Ion Ratio Lower Upper

59 100

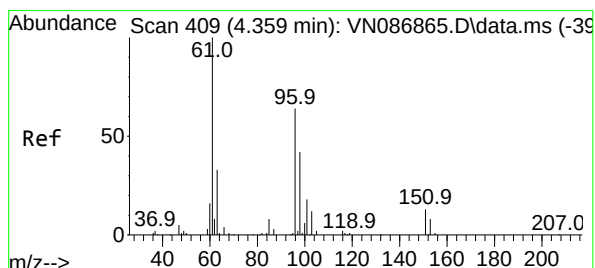
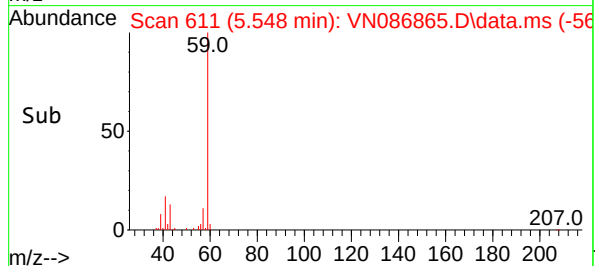
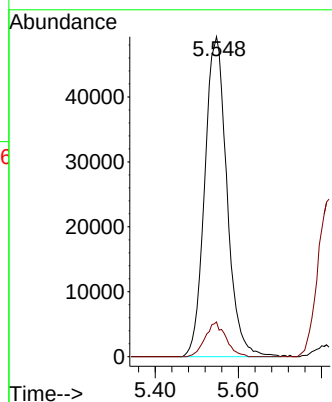
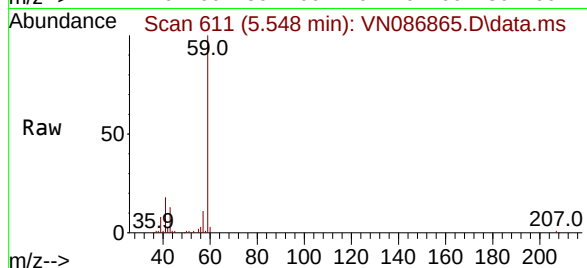
57 10.1 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#12

1,1-Dichloroethene

Concen: 47.900 ug/l

RT: 4.359 min Scan# 409

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

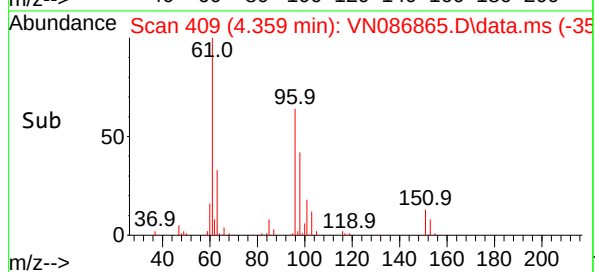
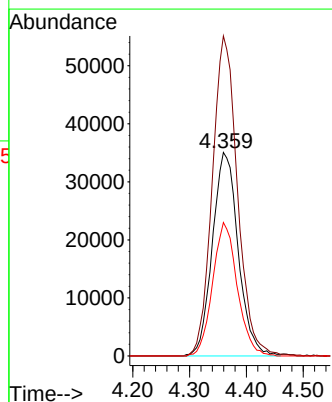
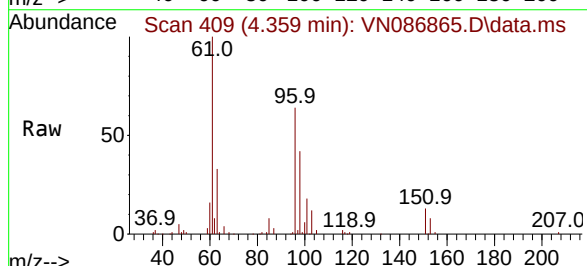
Tgt Ion: 96 Resp: 110549

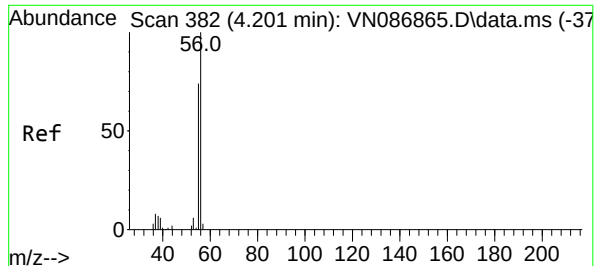
Ion Ratio Lower Upper

96 100

61 157.2 125.8 188.6

98 65.6 52.5 78.7





#13

Acrolein

Concen: 197.217 ug/l

RT: 4.201 min Scan# 382

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 47020

Ion Ratio Lower Upper

56 100

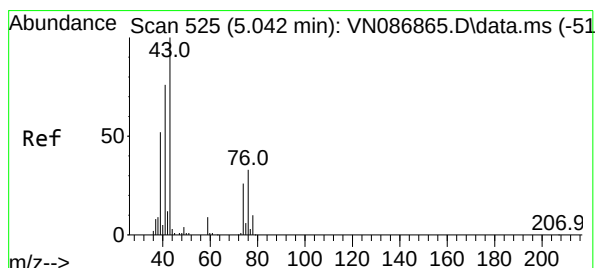
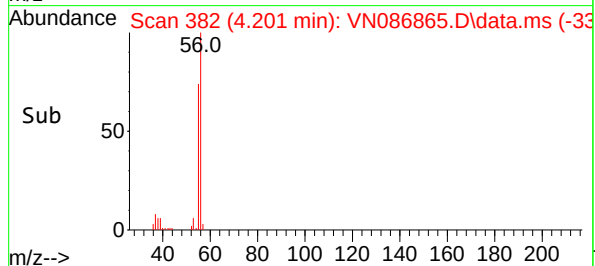
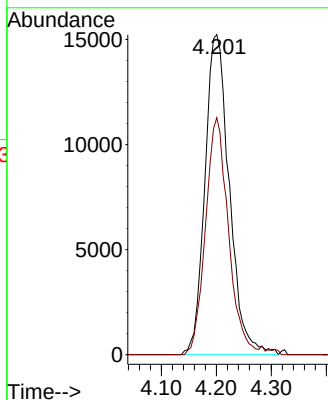
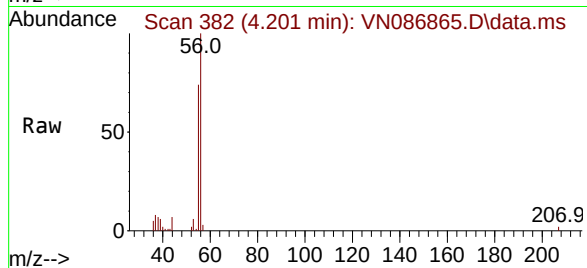
55 69.5 55.6 83.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 46.848 ug/l

RT: 5.042 min Scan# 525

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

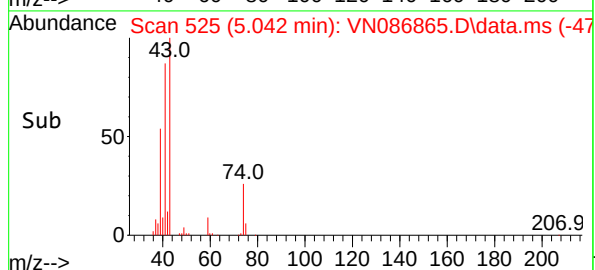
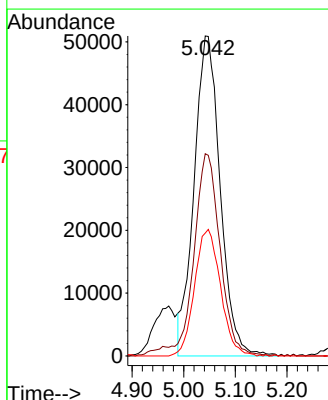
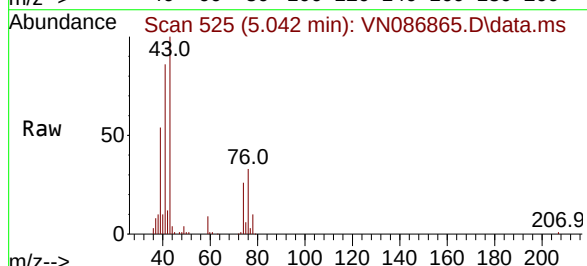
Tgt Ion: 41 Resp: 179313

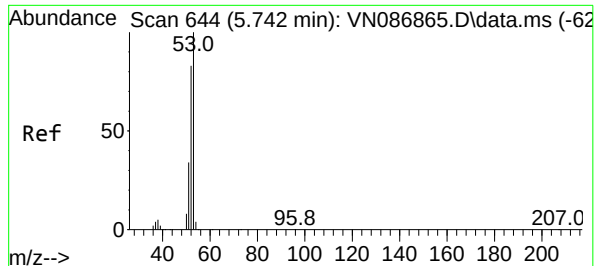
Ion Ratio Lower Upper

41 100

39 64.1 51.3 76.9

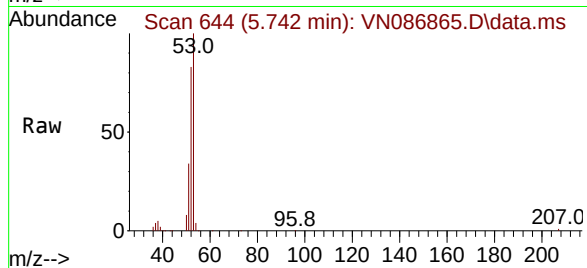
76 39.2 31.4 47.0





#15
Acrylonitrile
Concen: 239.638 ug/l
RT: 5.742 min Scan# 644
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

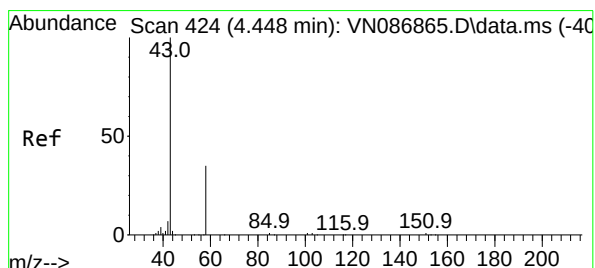
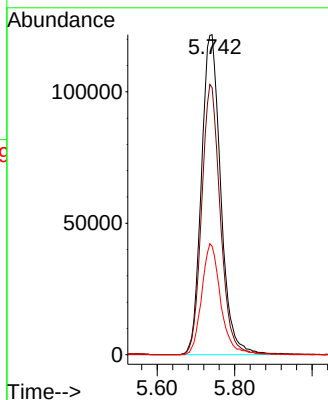
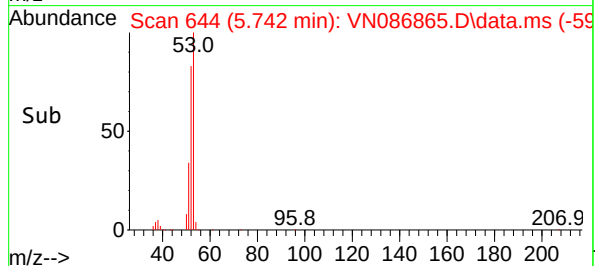
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 53 Resp: 42194
Ion Ratio Lower Upper
53 100
52 81.3 65.0 97.6
51 34.0 27.2 40.8

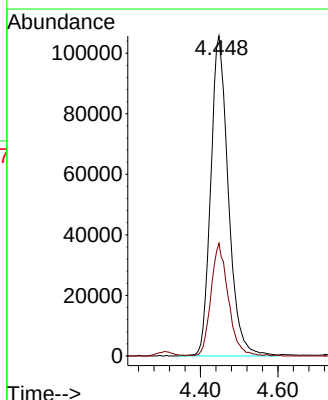
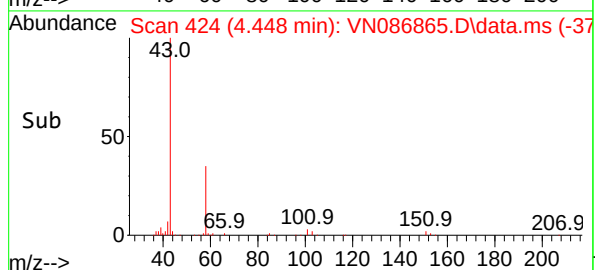
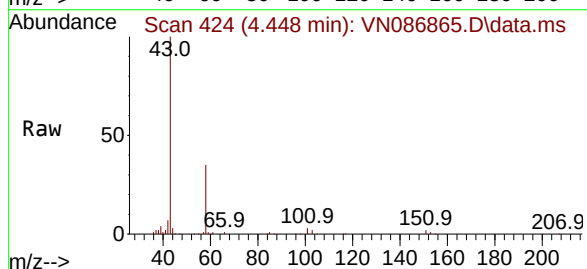
Manual Integrations
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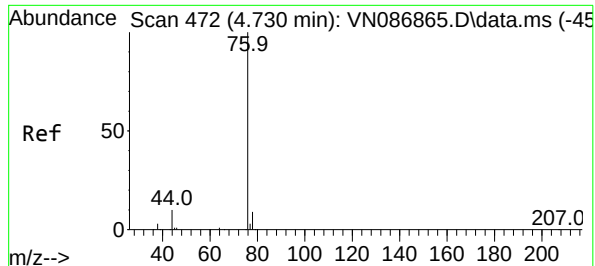
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#16
Acetone
Concen: 226.765 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 43 Resp: 333857
Ion Ratio Lower Upper
43 100
58 35.0 28.0 42.0





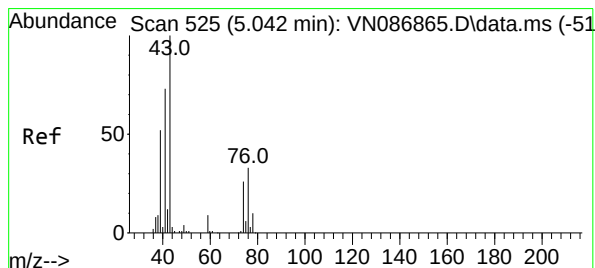
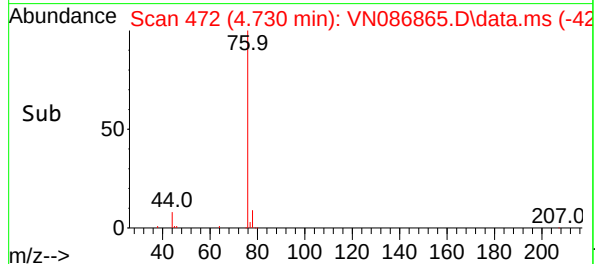
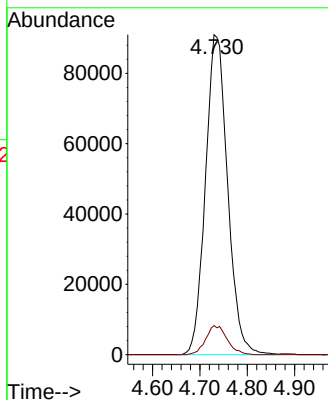
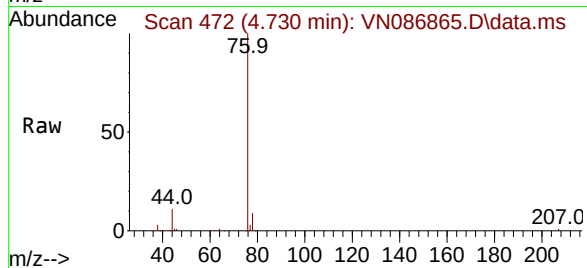
#17
Carbon Disulfide
Concen: 46.328 ug/l
RT: 4.730 min Scan# 472
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 29575
Ion Ratio Lower Upper
76 100
78 9.1 7.3 10.9

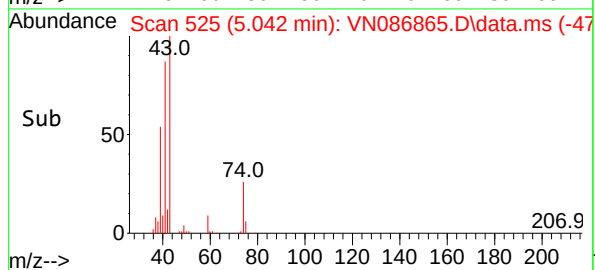
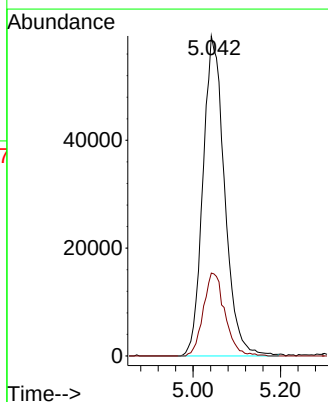
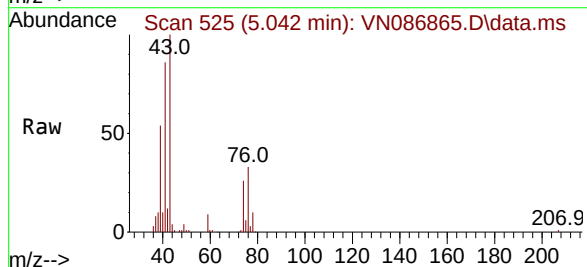
Manual Integrations
APPROVED

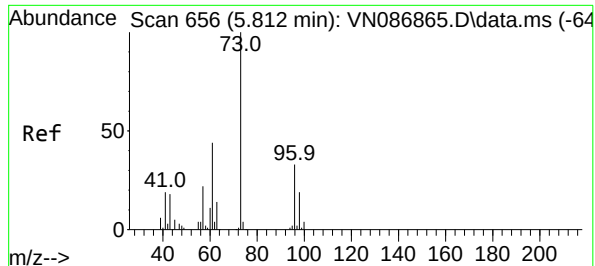
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#18
Methyl Acetate
Concen: 47.673 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 43 Resp: 204538
Ion Ratio Lower Upper
43 100
74 25.9 20.7 31.1





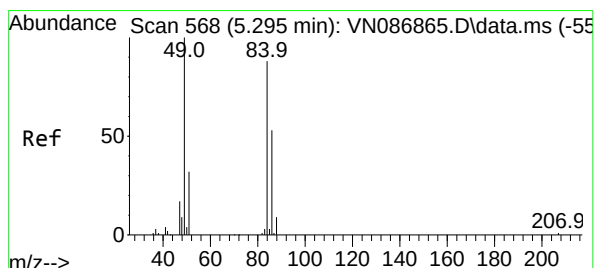
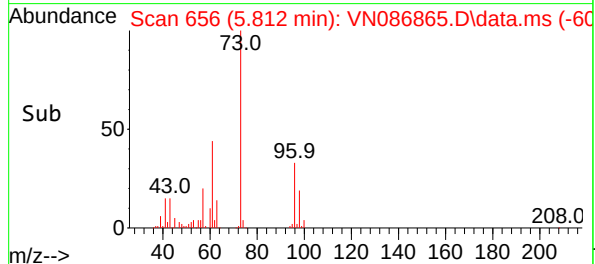
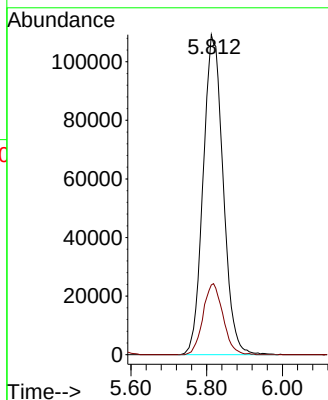
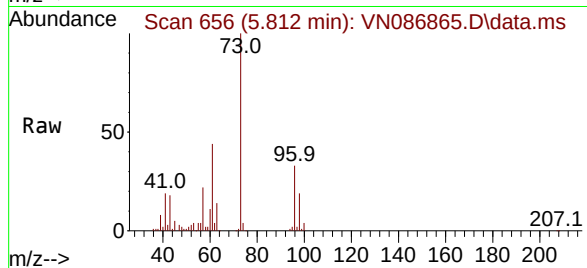
#19
Methyl tert-butyl Ether
Concen: 47.960 ug/l
RT: 5.812 min Scan# 656
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 400775
Ion Ratio Lower Upper
73 100
57 21.8 17.4 26.2

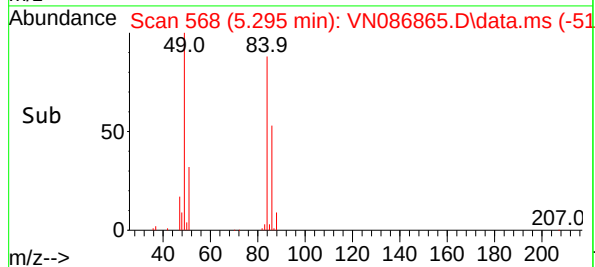
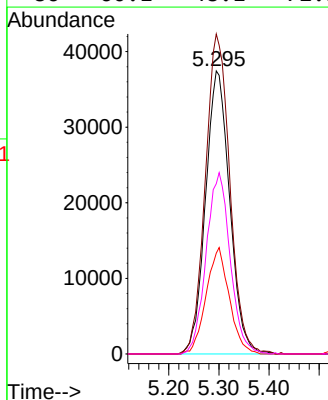
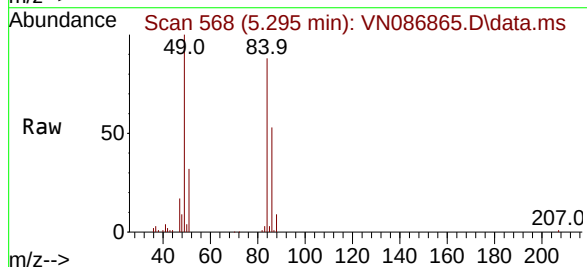
Manual Integrations
APPROVED

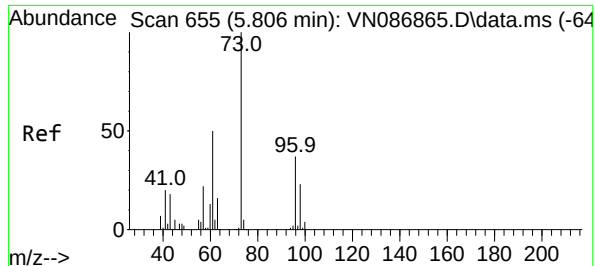
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#20
Methylene Chloride
Concen: 45.531 ug/l
RT: 5.295 min Scan# 568
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

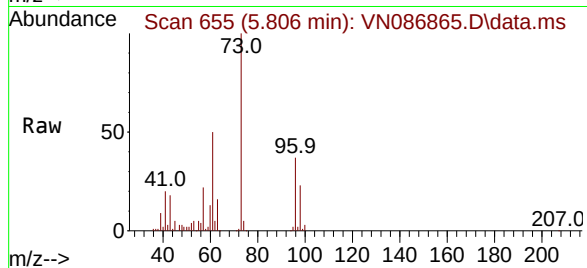
Tgt Ion: 84 Resp: 125498
Ion Ratio Lower Upper
84 100
49 113.1 90.5 135.7
51 35.6 28.5 42.7
86 60.1 48.1 72.1





#21
trans-1,2-Dichloroethene
Concen: 45.822 ug/l
RT: 5.806 min Scan# 611
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

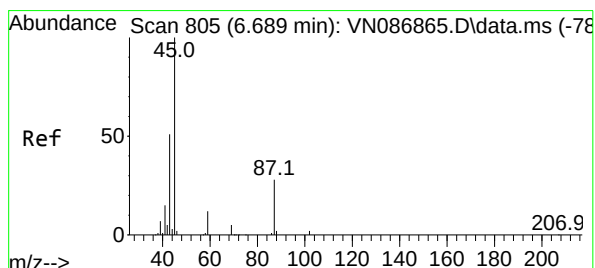
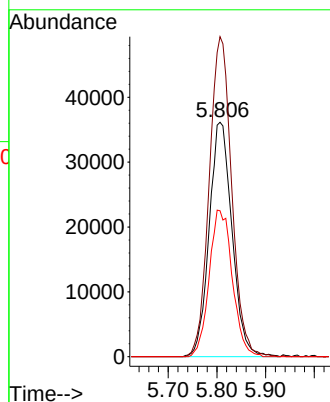
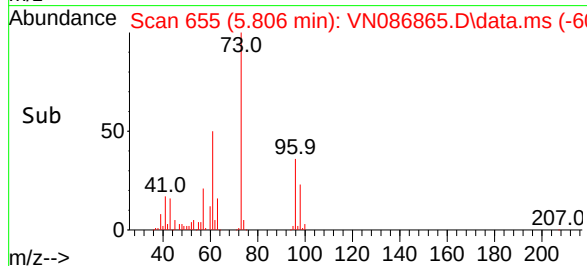
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 96 Resp: 117660
Ion Ratio Lower Upper
96 100
61 136.5 109.2 163.8
98 62.3 49.8 74.8

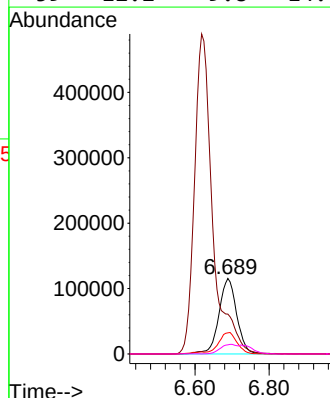
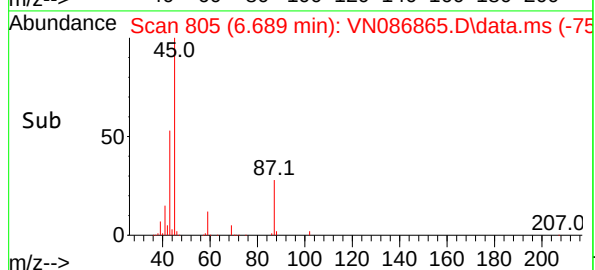
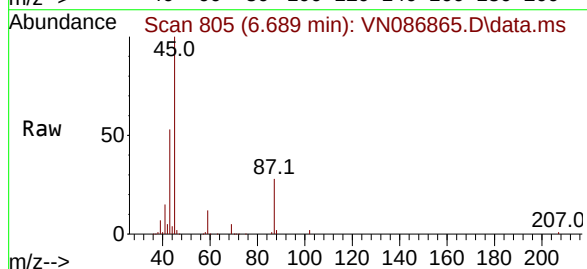
Manual Integrations
APPROVED

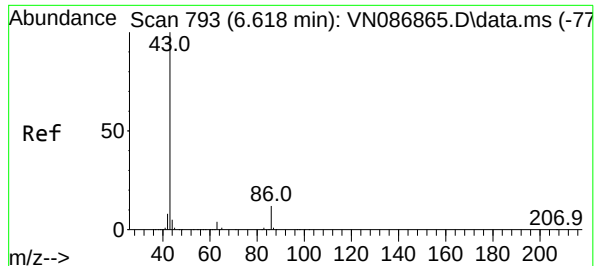
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#22
Diisopropyl ether
Concen: 47.711 ug/l
RT: 6.689 min Scan# 805
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 45 Resp: 384939
Ion Ratio Lower Upper
45 100
43 52.4 41.9 62.9
87 28.0 22.4 33.6
59 12.2 9.8 14.6





#23

Vinyl Acetate

Concen: 241.910 ug/l

RT: 6.618 min Scan# 793

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 164902

Ion Ratio Lower Upper

43

100

86

11.9

9.5

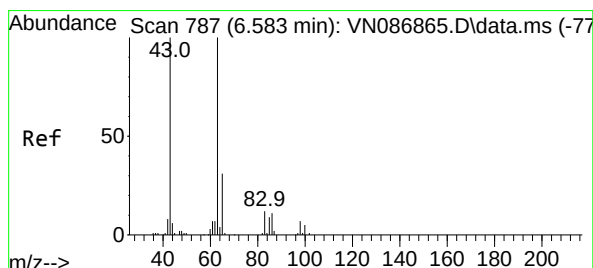
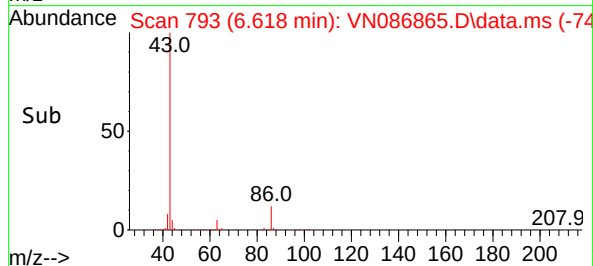
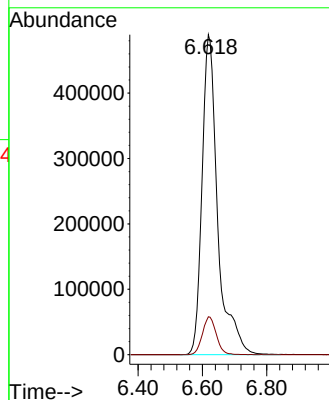
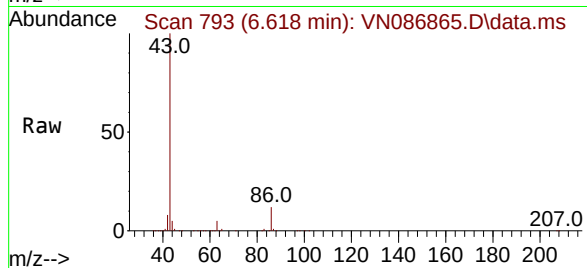
14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#24

1,1-Dichloroethane

Concen: 47.485 ug/l

RT: 6.583 min Scan# 787

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Tgt Ion: 63 Resp: 220477

Ion Ratio Lower Upper

63

100

98

7.2

3.6

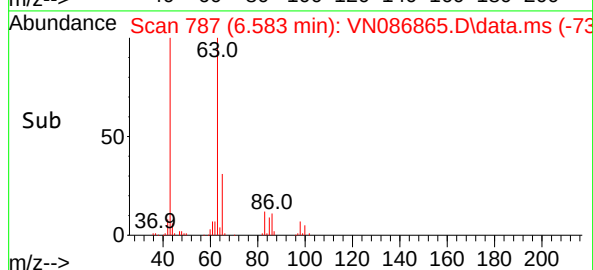
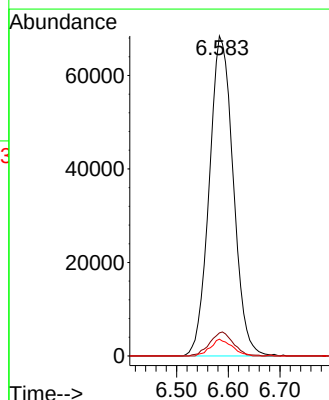
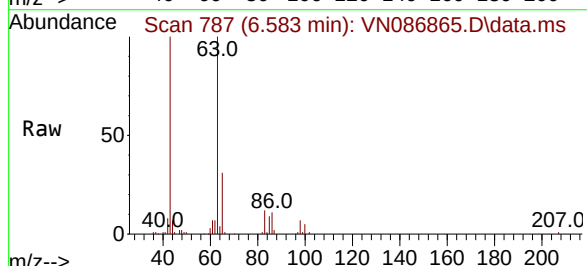
10.8

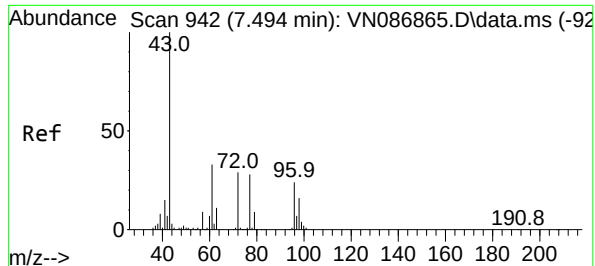
100

5.2

2.6

7.8





#25

2-Butanone

Concen: 238.693 ug/l

RT: 7.494 min Scan# 942

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 57122

Ion Ratio Lower Upper

43 100

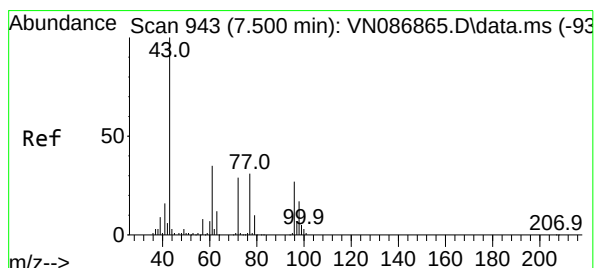
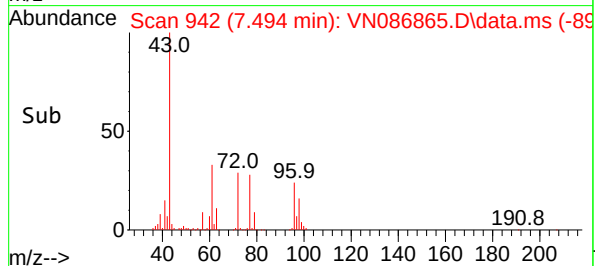
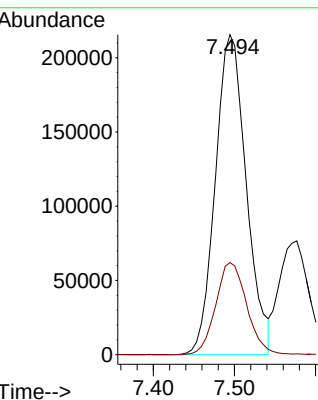
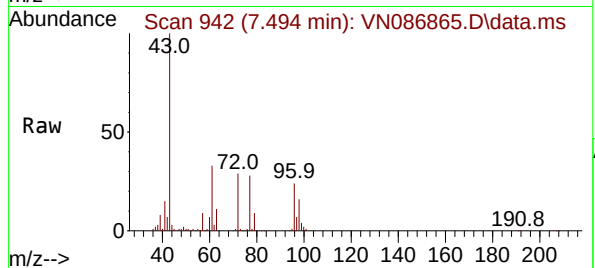
72 28.8 23.0 34.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 51.933 ug/l

RT: 7.500 min Scan# 943

Delta R.T. 0.000 min

Lab File: VN086865.D

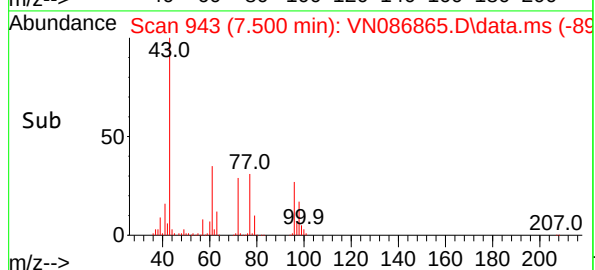
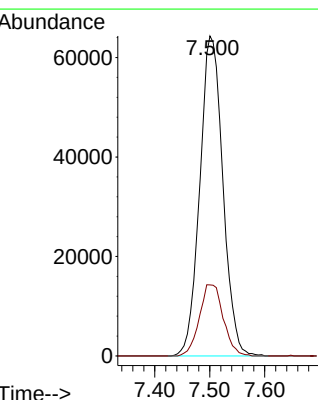
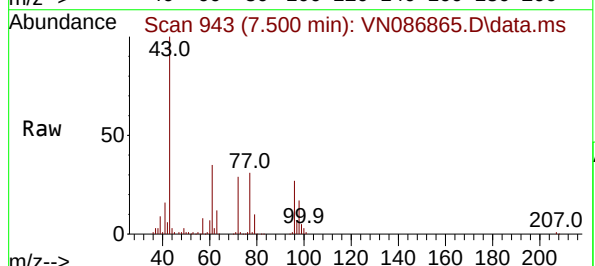
Acq: 06 Jun 2025 14:03

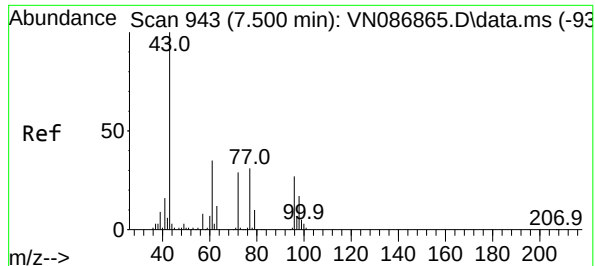
Tgt Ion: 77 Resp: 187567

Ion Ratio Lower Upper

77 100

97 23.1 11.6 34.7





#27

cis-1,2-Dichloroethene

Concen: 47.189 ug/l

RT: 7.500 min Scan# 943

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

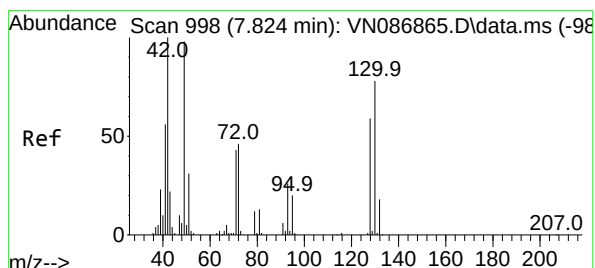
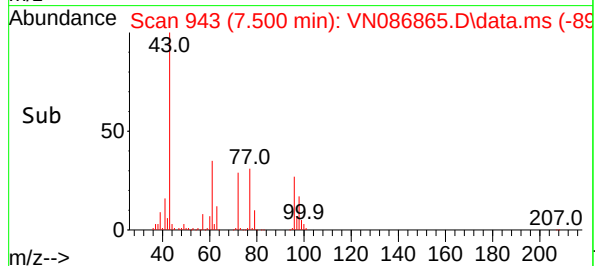
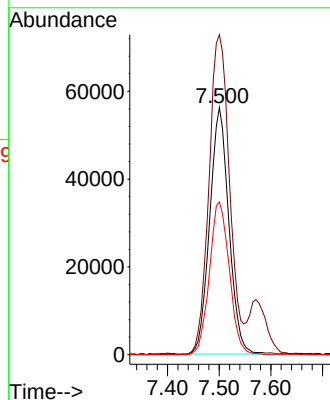
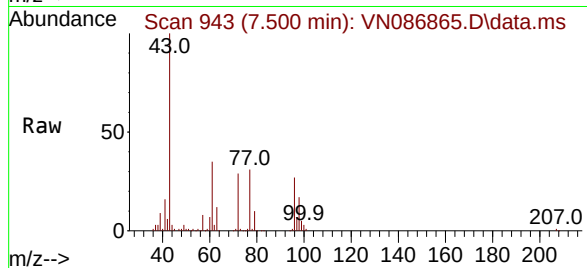
VSTDICCC050

Tgt Ion:	96	Resp:	14491
Ion	Ratio	Lower	Upper
96	100		
61	139.0	0.0	278.0
98	64.1	0.0	128.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 42.362 ug/l

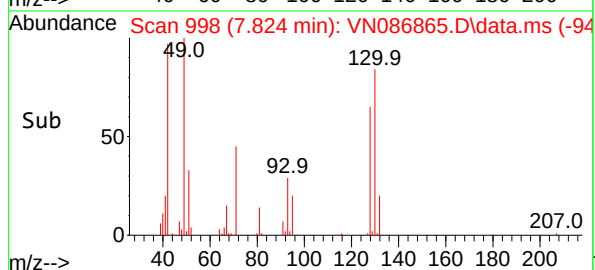
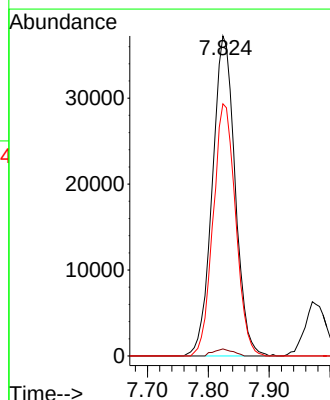
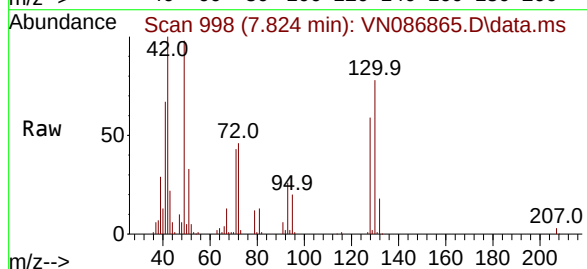
RT: 7.824 min Scan# 998

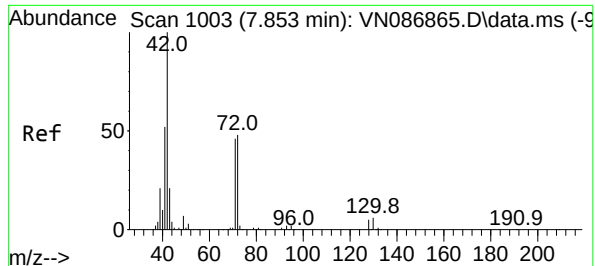
Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Tgt Ion:	49	Resp:	96707
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	77.7	62.2	93.2





#29

Tetrahydrofuran

Concen: 238.210 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

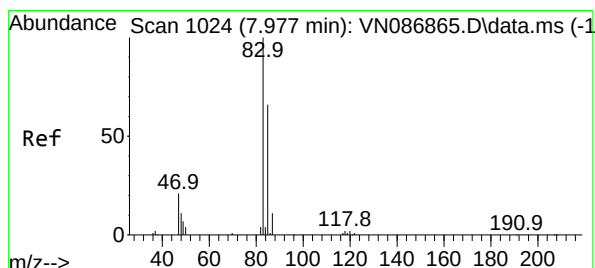
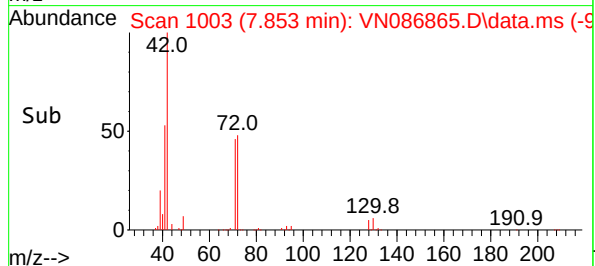
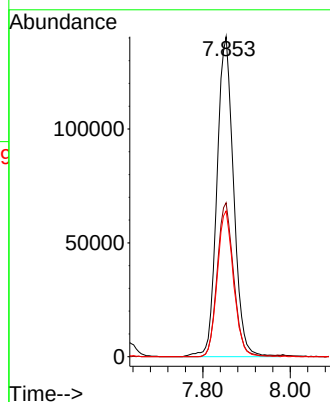
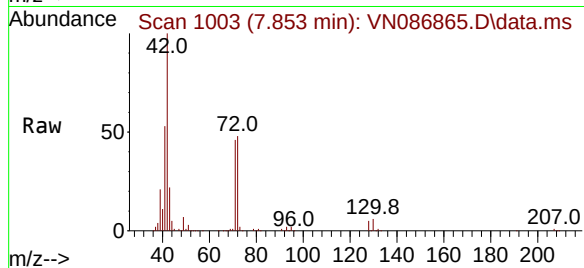
VSTDICCC050

Tgt Ion:	42	Resp:	37135
Ion	Ratio	Lower	Upper
42	100		
72	47.2	37.8	56.6
71	44.5	35.6	53.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 47.467 ug/l

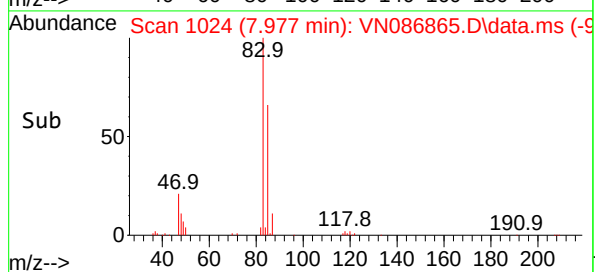
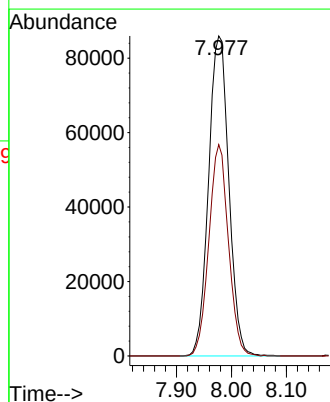
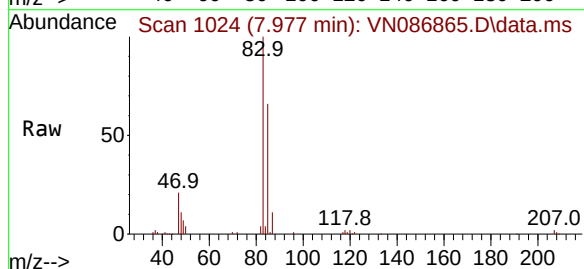
RT: 7.977 min Scan# 1024

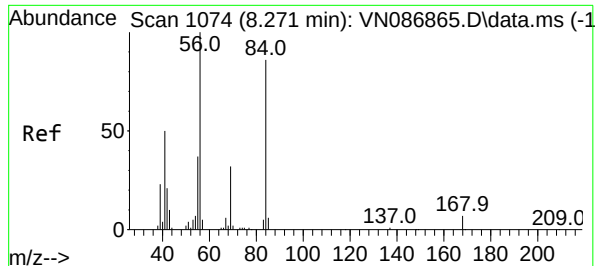
Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Tgt Ion:	83	Resp:	220093
Ion	Ratio	Lower	Upper
83	100		
85	66.1	52.9	79.3





#31

Cyclohexane

Concen: 46.217 ug/l

RT: 8.271 min Scan# 1074

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

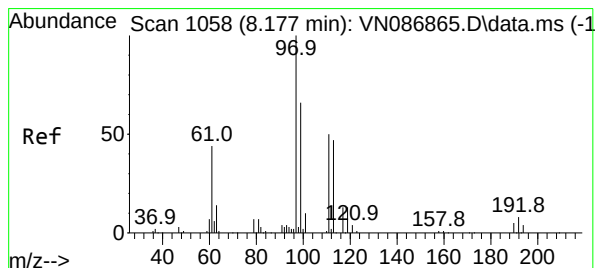
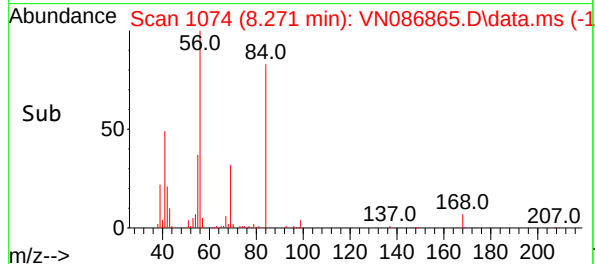
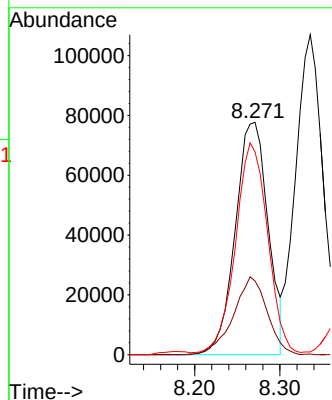
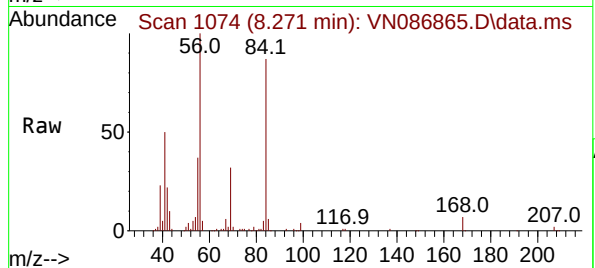
VSTDICCC050

Tgt Ion:	56	Resp:	20810
Ion Ratio	Lower	Upper	
56	100		
69	31.7	25.4	38.0
84	86.0	68.8	103.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#32

1,1,1-Trichloroethane

Concen: 47.037 ug/l

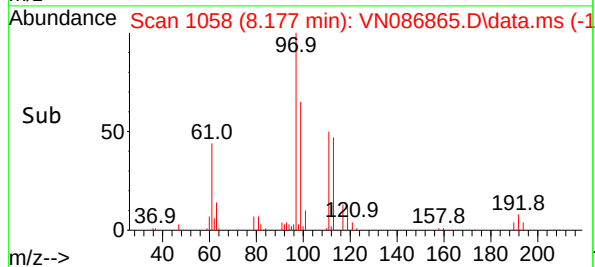
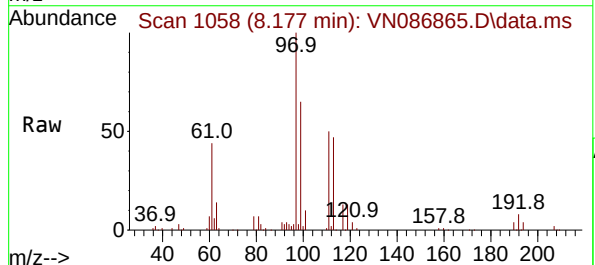
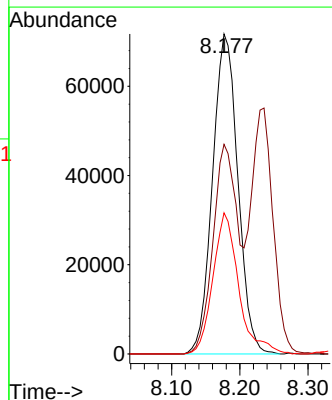
RT: 8.177 min Scan# 1058

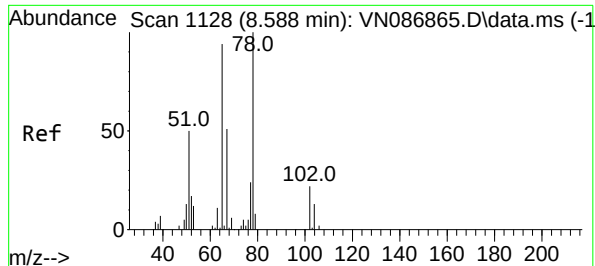
Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Tgt Ion:	97	Resp:	185502
Ion Ratio	Lower	Upper	
97	100		
99	65.0	52.0	78.0
61	44.9	35.9	53.9





#33

1,2-Dichloroethane-d4

Concen: 37.366 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 103730

Ion Ratio Lower Upper

65 100

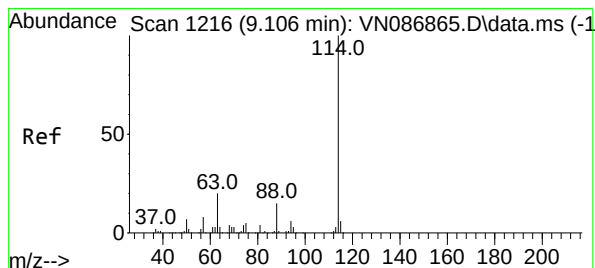
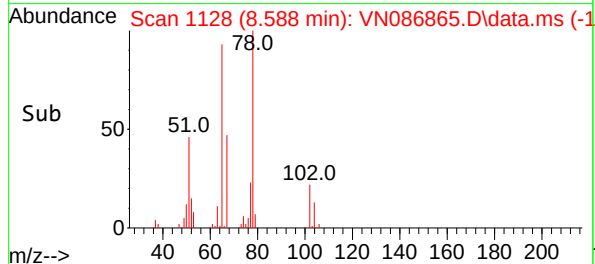
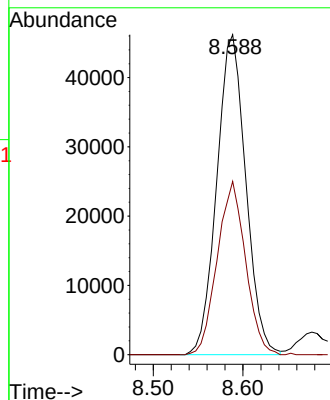
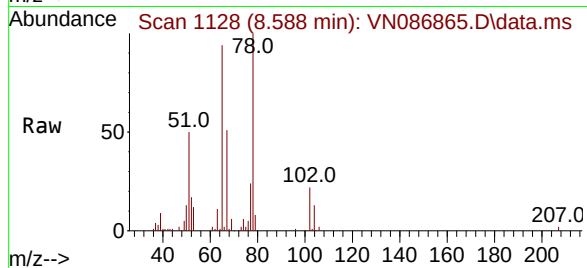
67 52.8 0.0 105.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

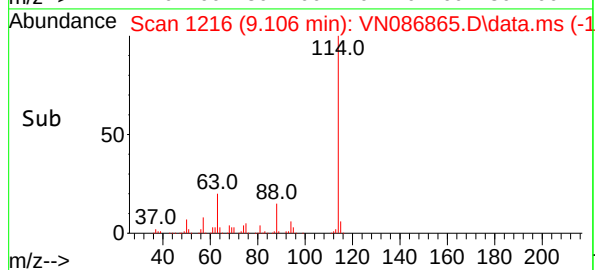
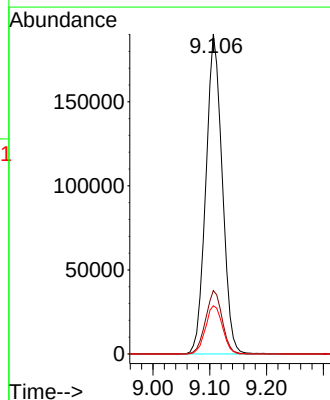
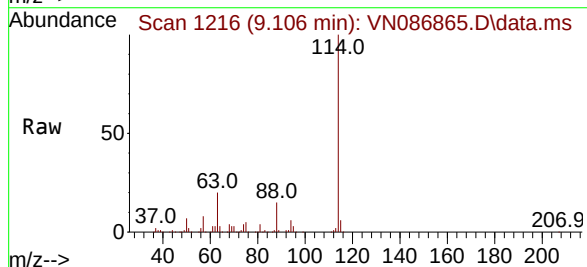
Tgt Ion:114 Resp: 378587

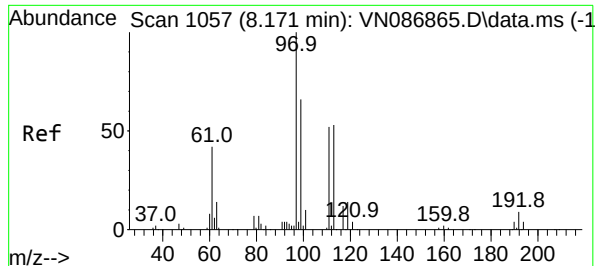
Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.6

88 15.1 0.0 30.2





#35

Dibromofluoromethane

Concen: 37.020 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

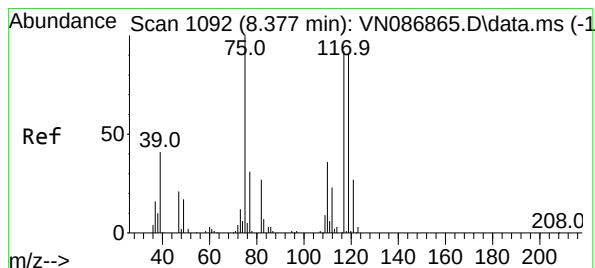
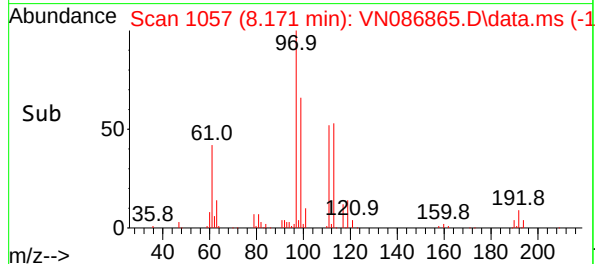
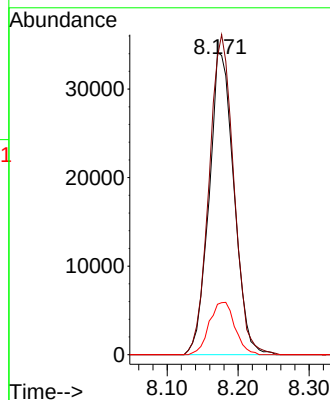
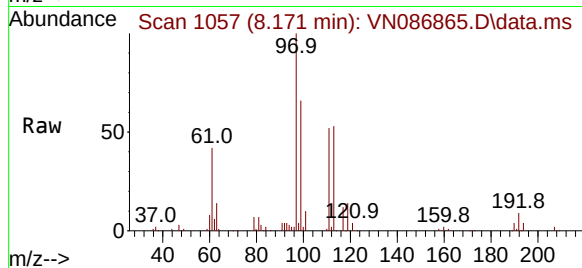
VSTDICCC050

Tgt Ion:	113	Resp:	83058
Ion Ratio	Lower	Upper	
113	100		
111	105.2	84.2	126.2
192	17.8	14.2	21.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#36

1,1-Dichloropropene

Concen: 47.362 ug/l

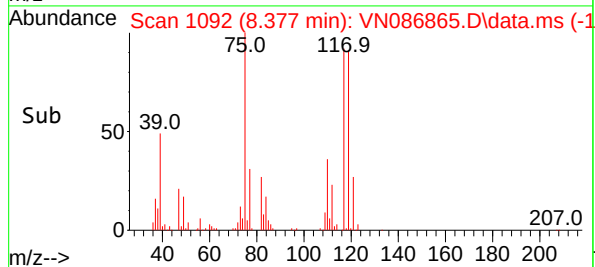
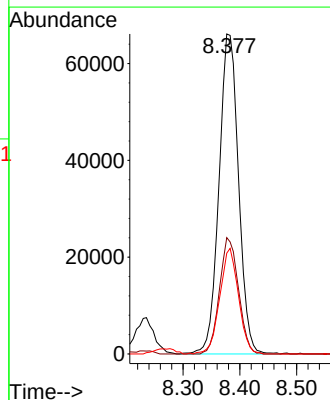
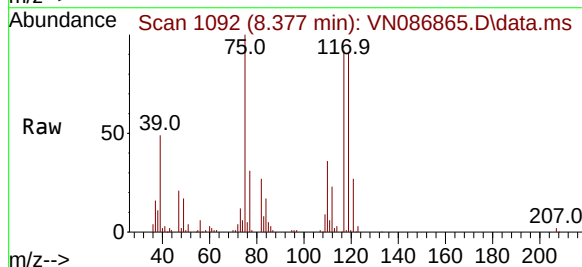
RT: 8.377 min Scan# 1092

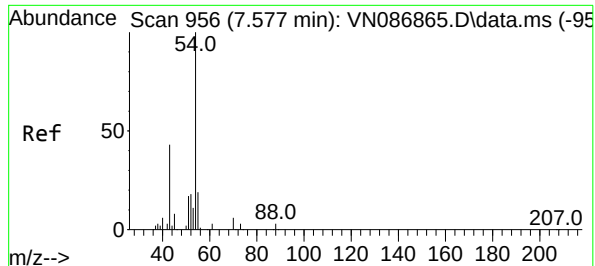
Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Tgt Ion:	75	Resp:	158341
Ion Ratio	Lower	Upper	
75	100		
110	35.3	17.6	52.9
77	31.6	25.3	37.9





#37

Ethyl Acetate

Concen: 47.720 ug/l

RT: 7.577 min Scan# 956

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 20309

Ion Ratio Lower Upper

43 100

61 15.1 12.1 18.1

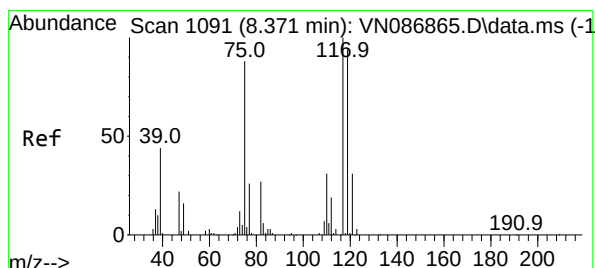
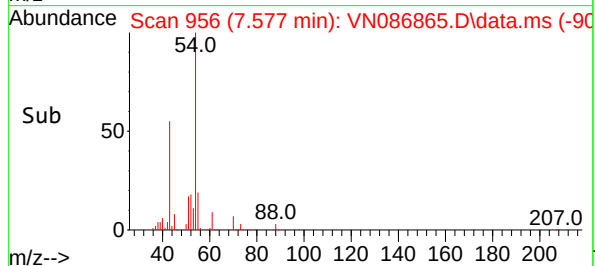
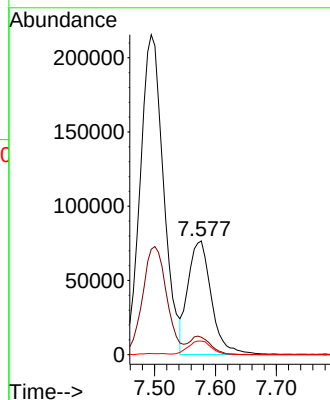
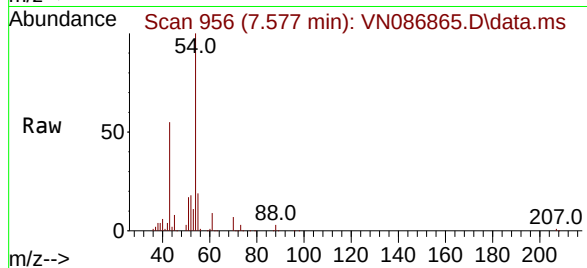
70 12.2 9.8 14.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#38

Carbon Tetrachloride

Concen: 47.126 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

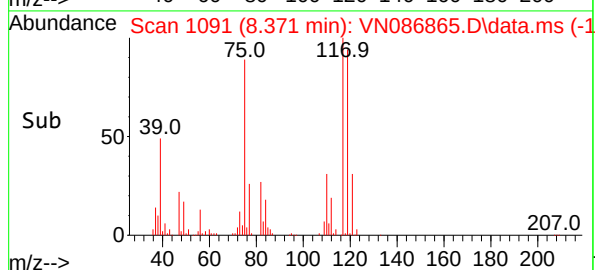
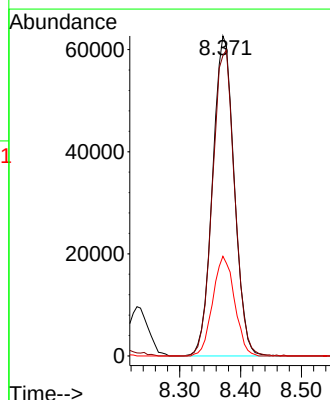
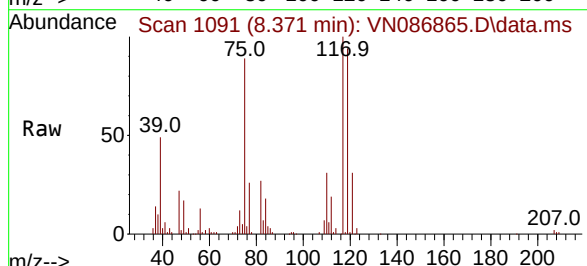
Tgt Ion:117 Resp: 154677

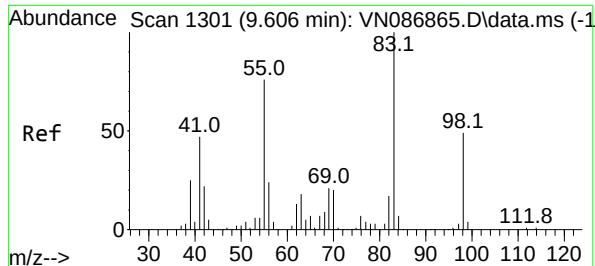
Ion Ratio Lower Upper

117 100

119 93.8 75.0 112.6

121 31.1 24.9 37.3





#39

Methylcyclohexane

Concen: 47.126 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 215849

Ion Ratio Lower Upper

83 100

55 76.3 61.0 91.6

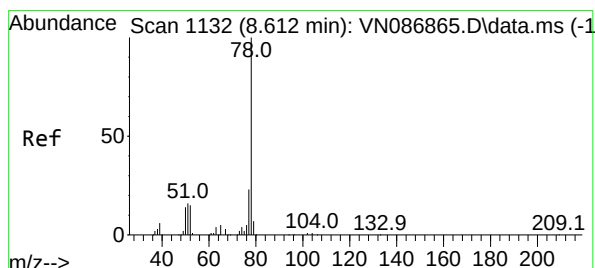
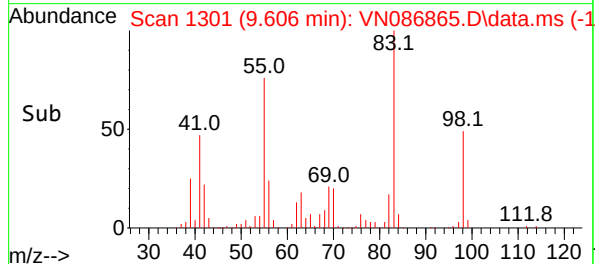
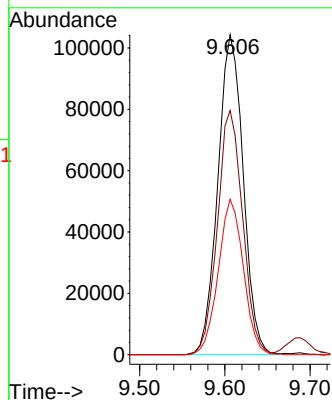
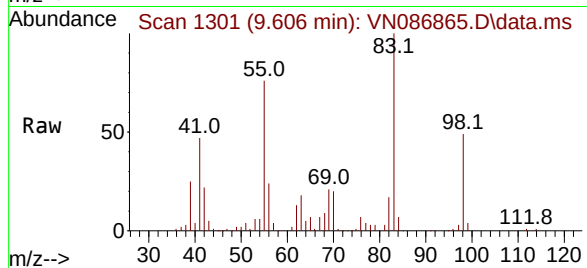
98 48.6 38.9 58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#40

Benzene

Concen: 46.590 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. 0.000 min

Lab File: VN086865.D

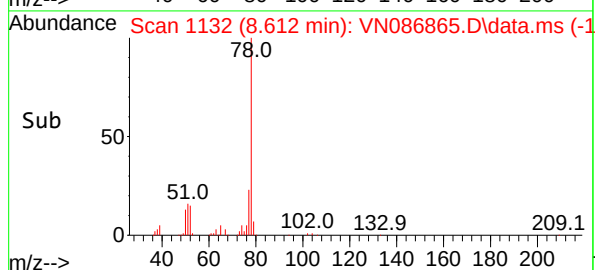
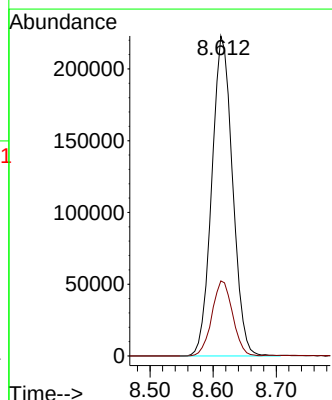
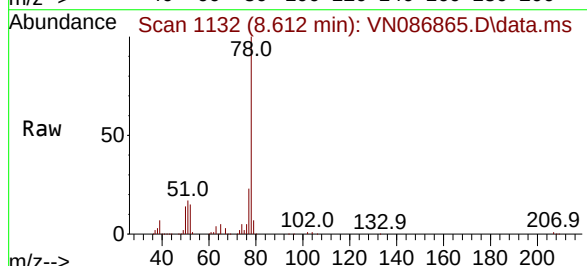
Acq: 06 Jun 2025 14:03

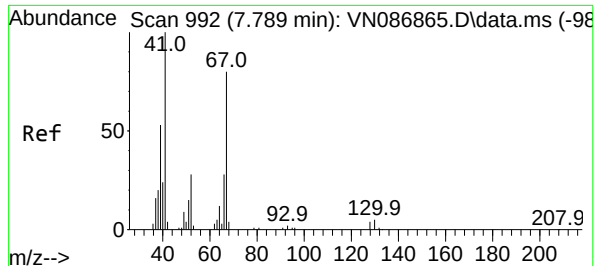
Tgt Ion: 78 Resp: 509334

Ion Ratio Lower Upper

78 100

77 23.4 18.7 28.1





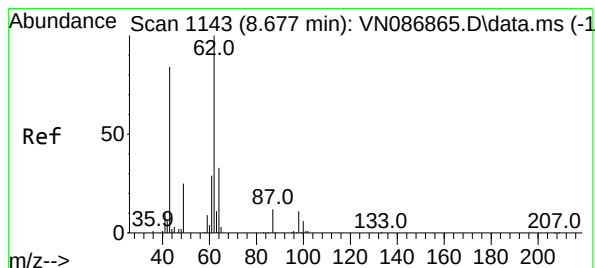
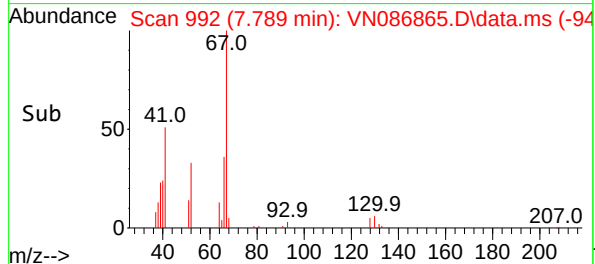
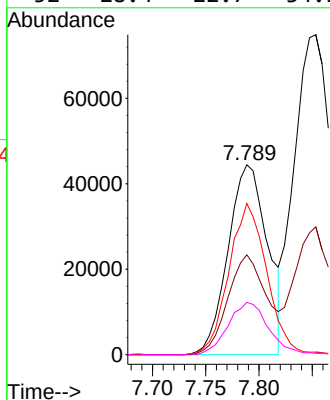
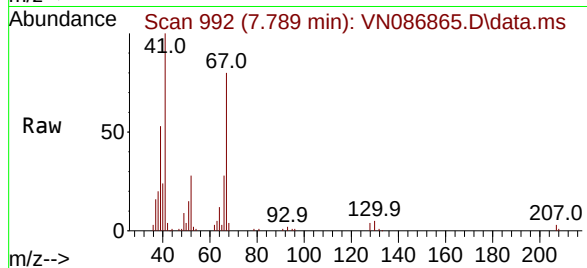
#41
Methacrylonitrile
Concen: 48.000 ug/l
RT: 7.789 min Scan# 992
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 11472
Ion Ratio Lower Upper
41 100
39 51.5 41.2 61.8
67 76.8 61.4 92.2
52 28.4 22.7 34.1

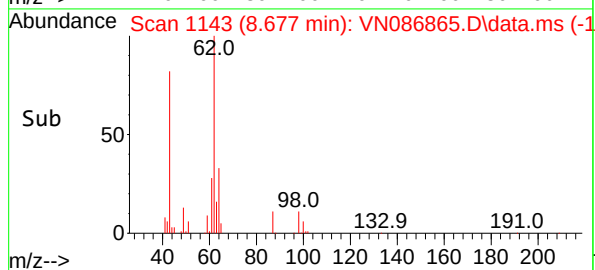
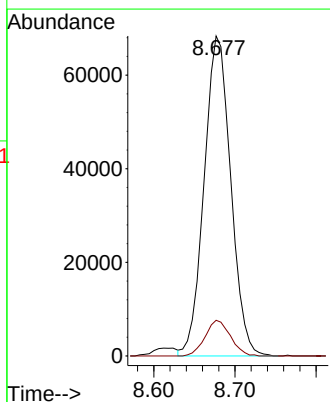
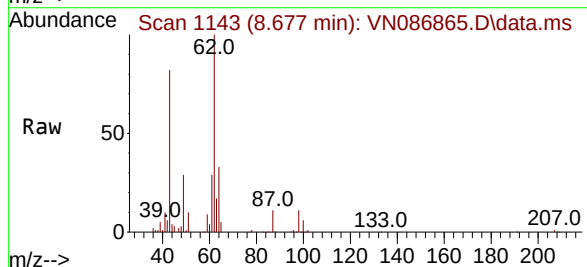
Manual Integrations
APPROVED

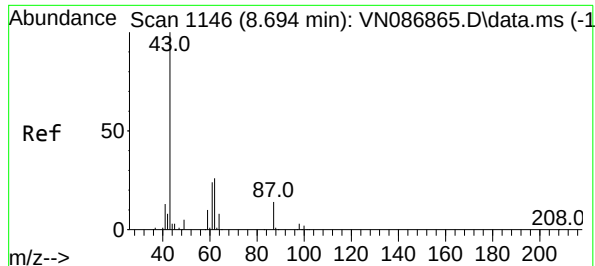
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#42
1,2-Dichloroethane
Concen: 46.960 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 62 Resp: 155713
Ion Ratio Lower Upper
62 100
98 10.6 0.0 21.2





#43

Isopropyl Acetate

Concen: 47.248 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

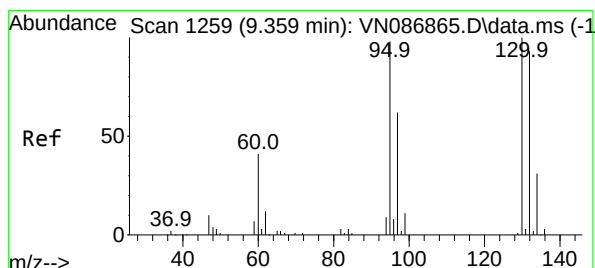
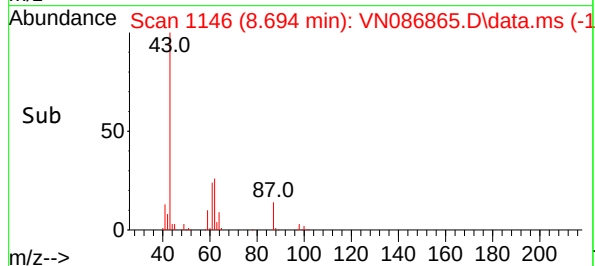
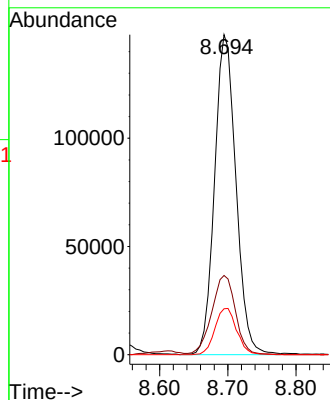
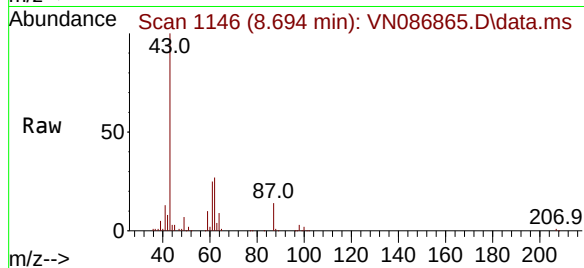
VSTDICCC050

Tgt Ion: 43	Resp: 32274
Ion Ratio	Lower Upper
43	100
61	27.6 22.1 33.1
87	14.7 11.8 17.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#44

Trichloroethene

Concen: 47.776 ug/l

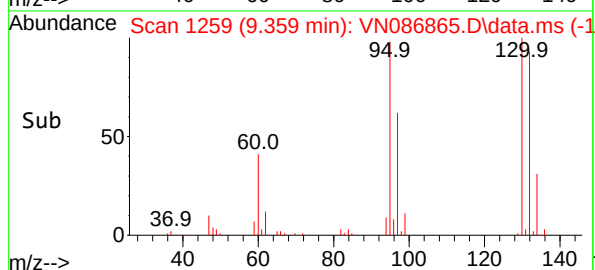
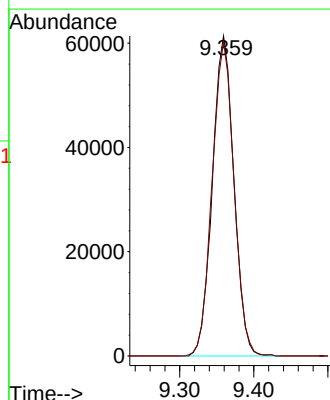
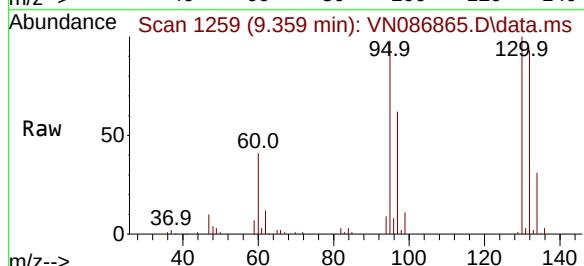
RT: 9.359 min Scan# 1259

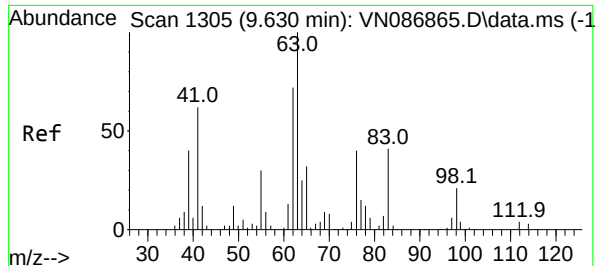
Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Tgt Ion:130	Resp: 123847
Ion Ratio	Lower Upper
130	100
95	98.1 0.0 196.2





#45

1,2-Dichloropropane

Concen: 47.251 ug/l

RT: 9.630 min Scan# 1305

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 12567

Ion Ratio Lower Upper

63 100

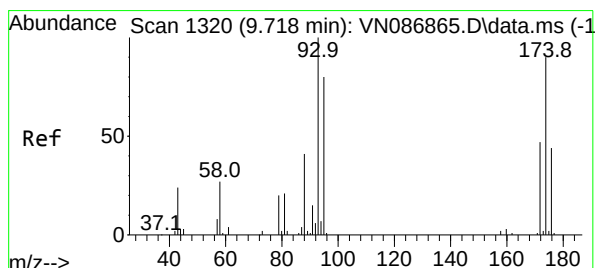
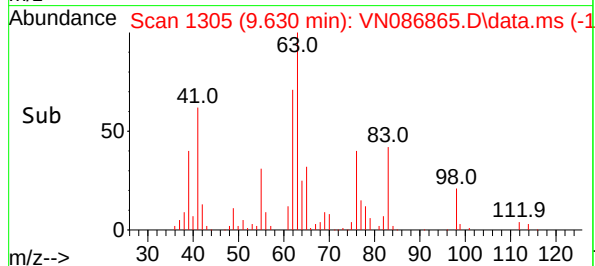
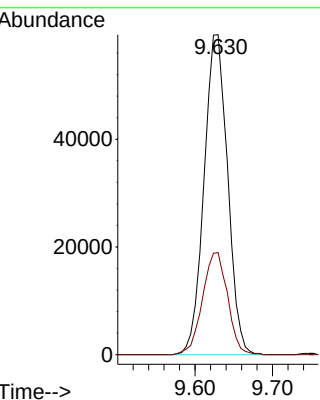
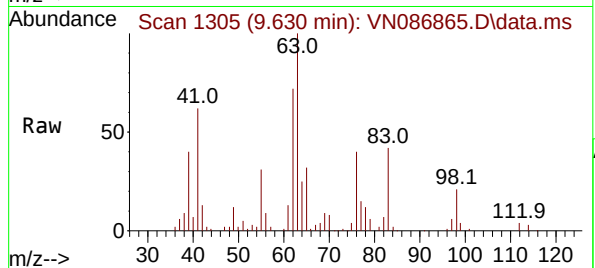
65 31.9 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#46

Dibromomethane

Concen: 47.442 ug/l

RT: 9.718 min Scan# 1320

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

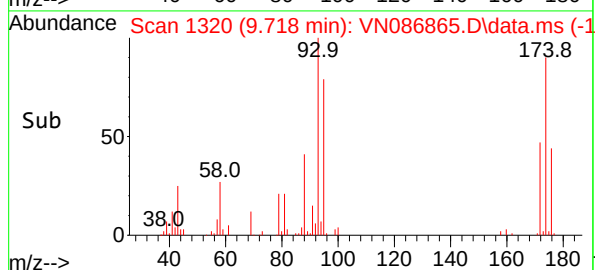
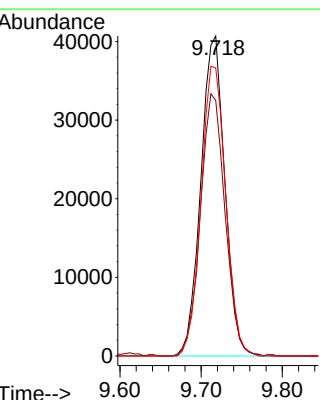
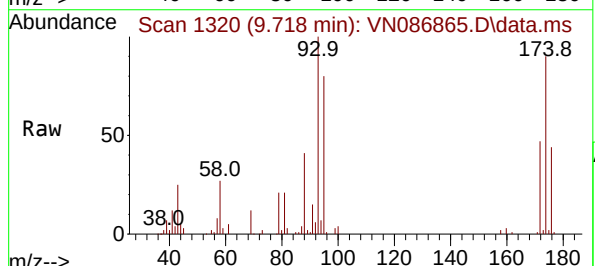
Tgt Ion: 93 Resp: 83811

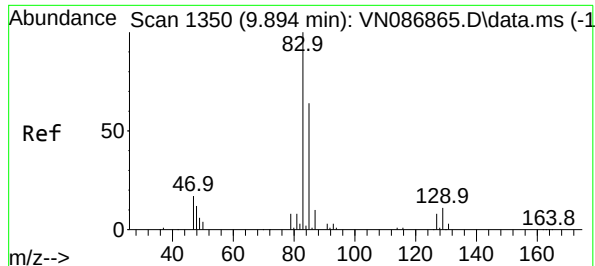
Ion Ratio Lower Upper

93 100

95 83.9 67.1 100.7

174 92.8 74.2 111.4





#47

Bromodichloromethane

Concen: 47.651 ug/l

RT: 9.894 min Scan# 1350

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

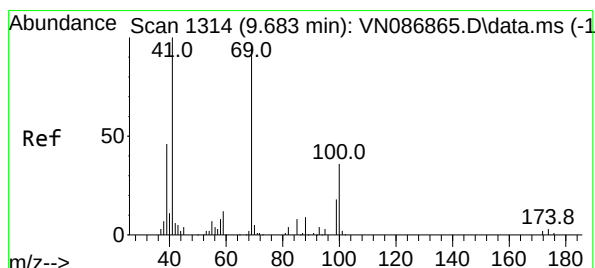
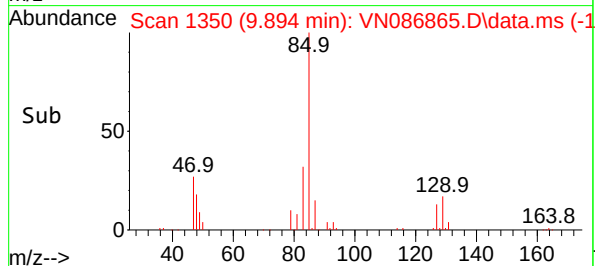
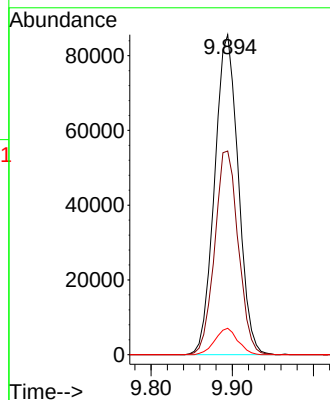
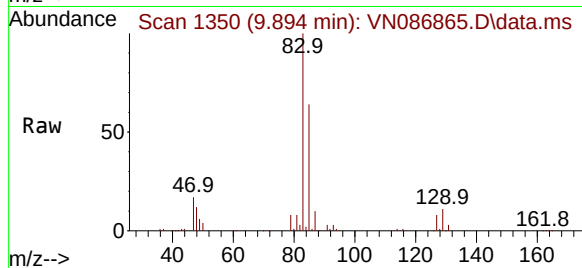
VSTDICCC050

Tgt Ion:	83	Resp:	173200
Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.9	76.3
127	8.3	6.6	10.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#48

Methyl methacrylate

Concen: 47.399 ug/l

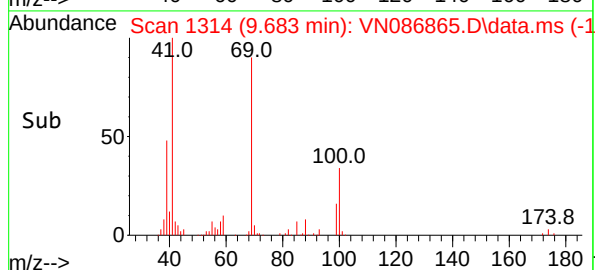
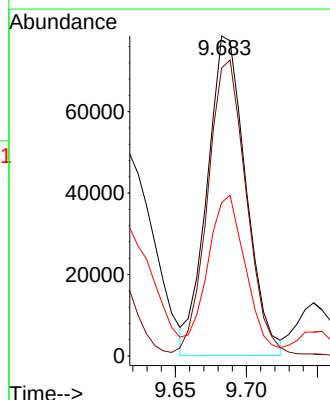
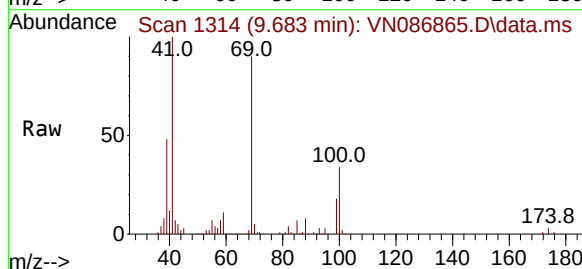
RT: 9.683 min Scan# 1314

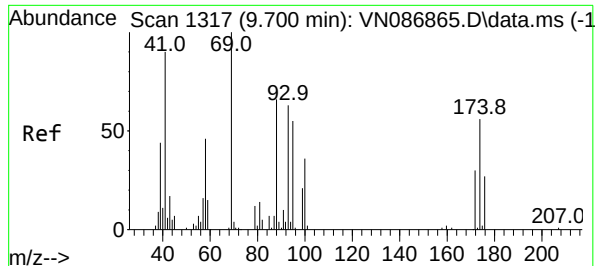
Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Tgt Ion:	41	Resp:	149019
Ion	Ratio	Lower	Upper
41	100		
69	93.3	74.6	112.0
39	50.3	40.2	60.4





#49

1,4-Dioxane

Concen: 1032.607 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 88 Resp: 59060

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

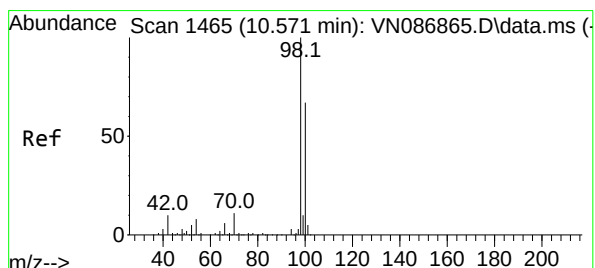
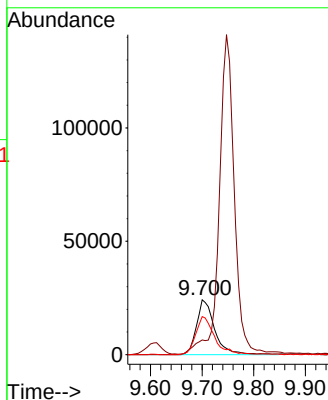
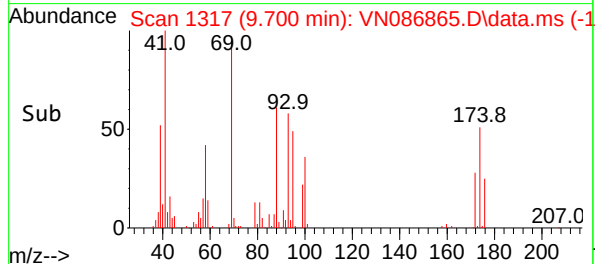
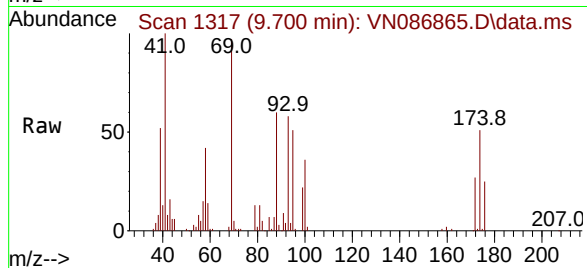
58 72.1 57.7 86.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#50

Toluene-d8

Concen: 36.716 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN086865.D

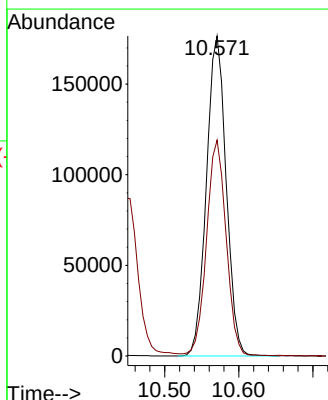
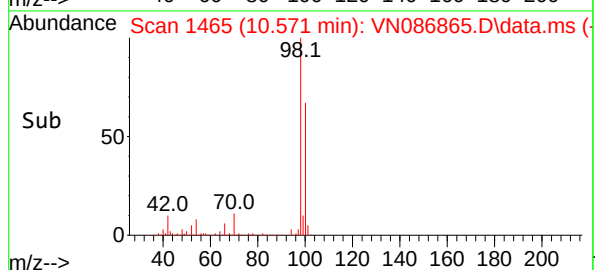
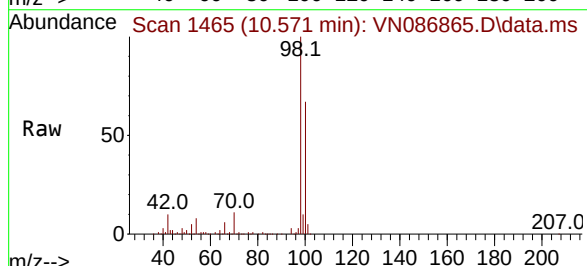
Acq: 06 Jun 2025 14:03

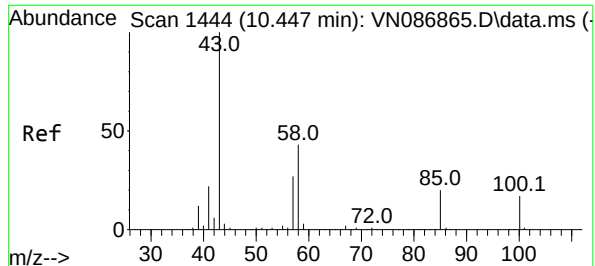
Tgt Ion: 98 Resp: 326105

Ion Ratio Lower Upper

98 100

100 66.7 53.4 80.0





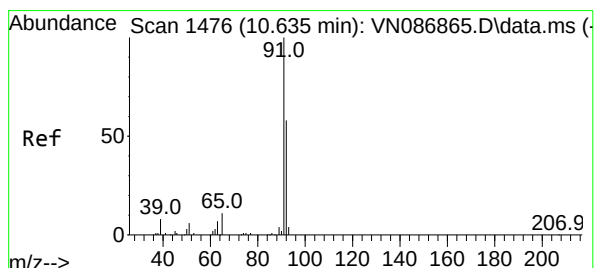
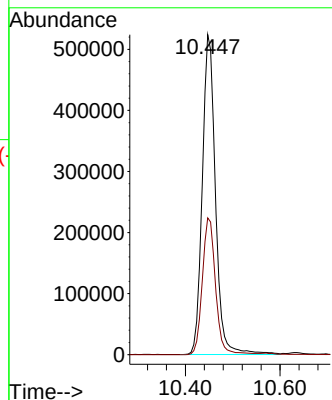
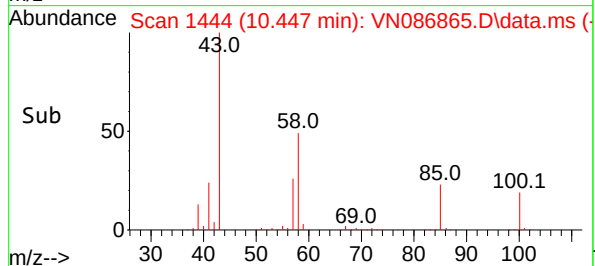
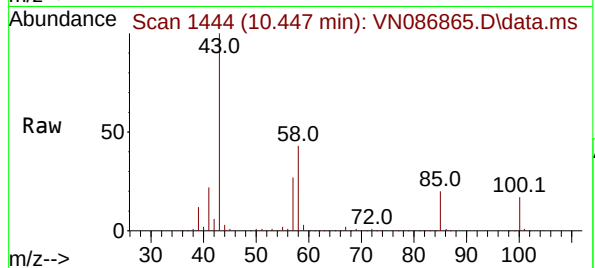
#51
4-Methyl-2-Pentanone
Concen: 247.484 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 101768
Ion Ratio Lower Upper
43 100
58 42.8 34.2 51.4

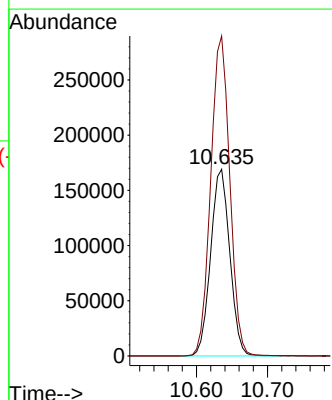
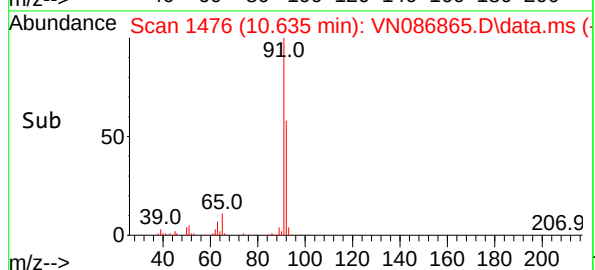
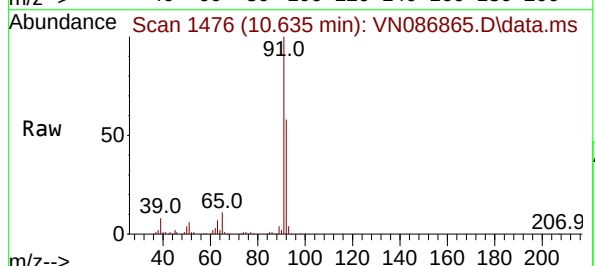
Manual Integrations
APPROVED

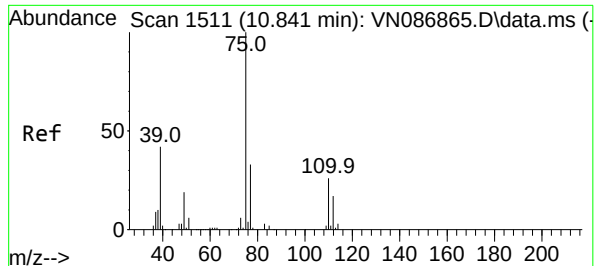
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#52
Toluene
Concen: 47.331 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 92 Resp: 316219
Ion Ratio Lower Upper
92 100
91 170.6 136.5 204.7





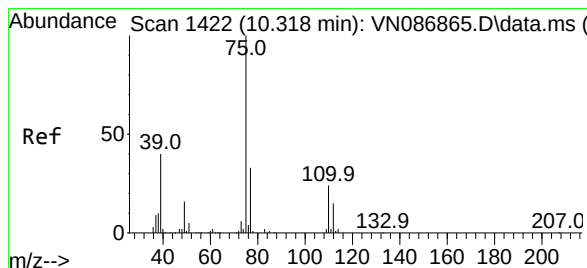
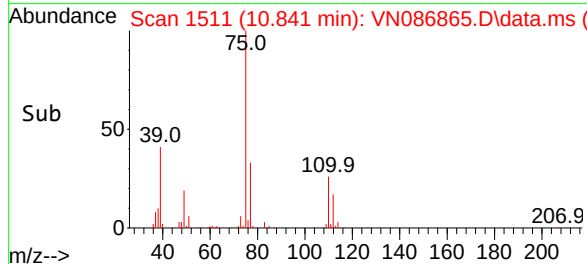
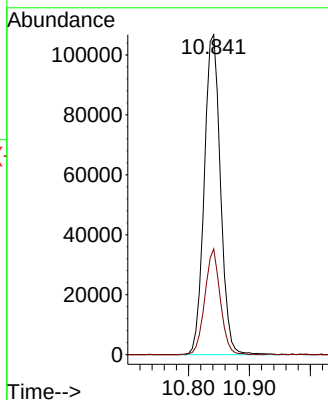
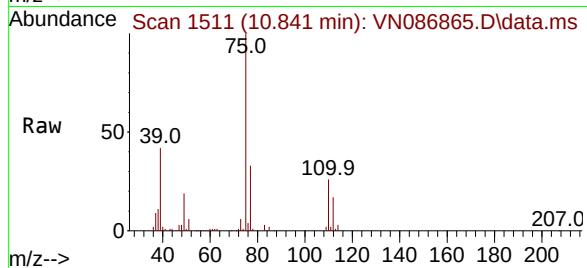
#53
t-1,3-Dichloropropene
Concen: 48.587 ug/l
RT: 10.841 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 197475
Ion Ratio Lower Upper
75 100
77 33.0 26.4 39.6

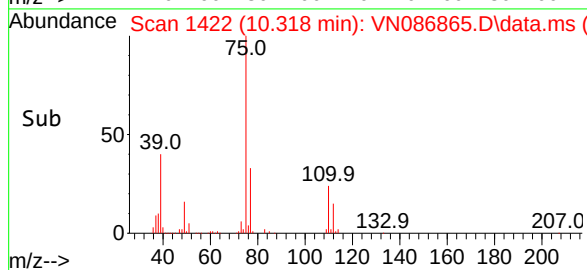
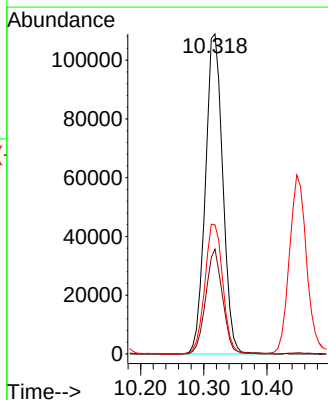
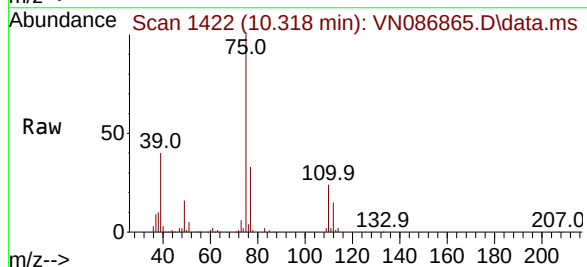
Manual Integrations
APPROVED

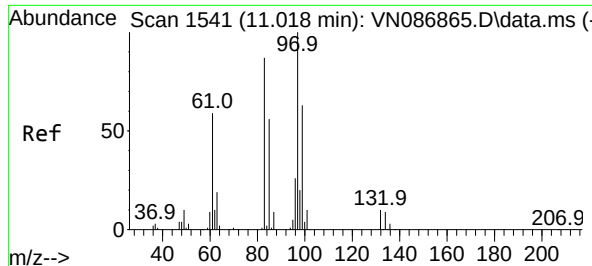
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#54
cis-1,3-Dichloropropene
Concen: 47.950 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

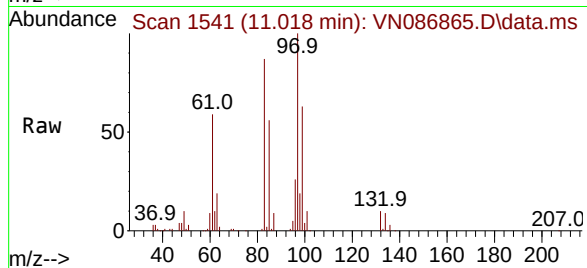
Tgt Ion: 75 Resp: 208523
Ion Ratio Lower Upper
75 100
77 32.8 26.2 39.4
39 40.4 32.3 48.5





#55
1,1,2-Trichloroethane
Concen: 47.445 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

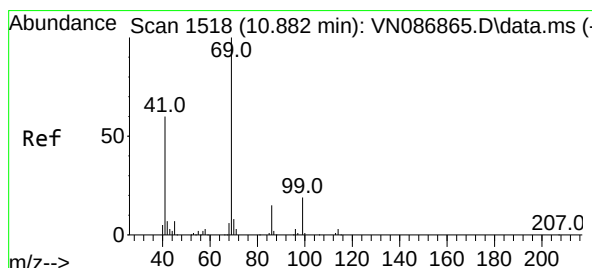
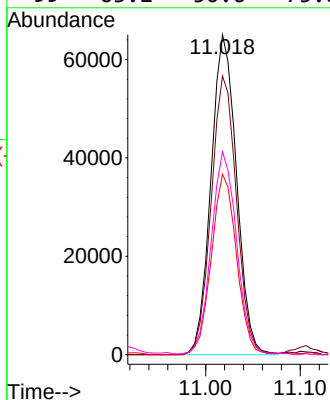
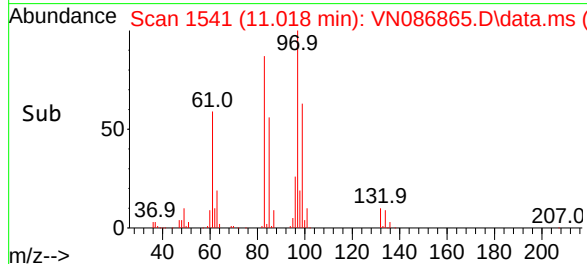
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



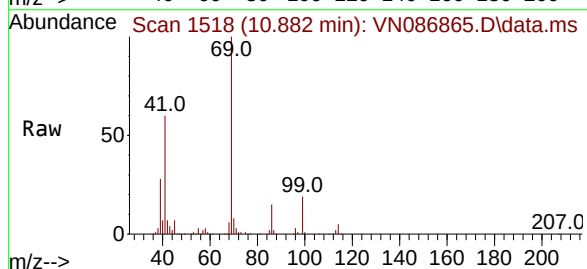
Tgt Ion: 97 Resp: 121969
Ion Ratio Lower Upper
97 100
83 87.1 69.7 104.5
85 56.4 45.1 67.7
99 63.2 50.6 75.8

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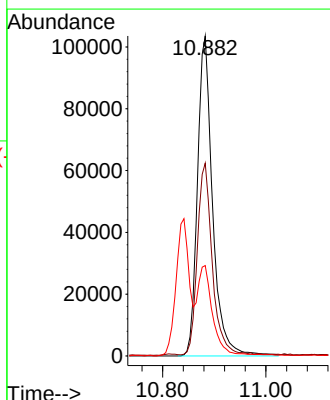
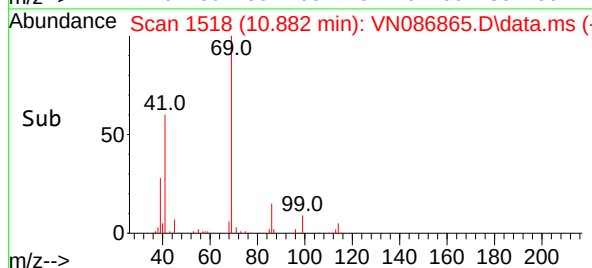
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

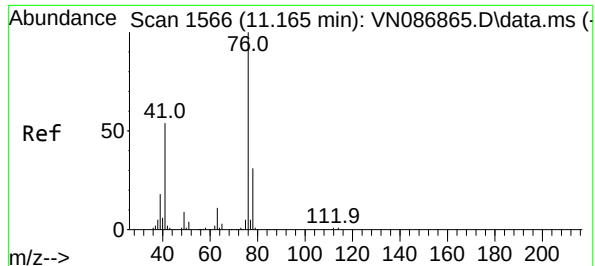


#56
Ethyl methacrylate
Concen: 51.401 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03



Tgt Ion: 69 Resp: 210467
Ion Ratio Lower Upper
69 100
41 59.0 47.2 70.8
39 28.8 23.0 34.6





#57

1,3-Dichloropropane

Concen: 47.593 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 21224

Ion Ratio Lower Upper

76 100

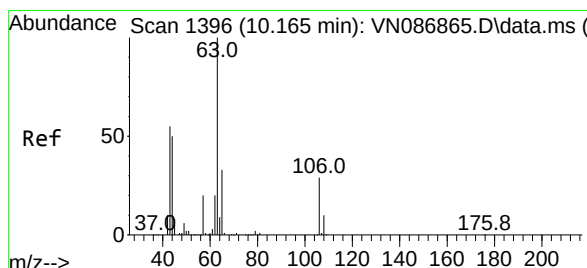
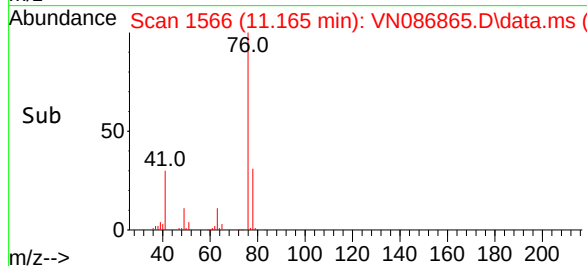
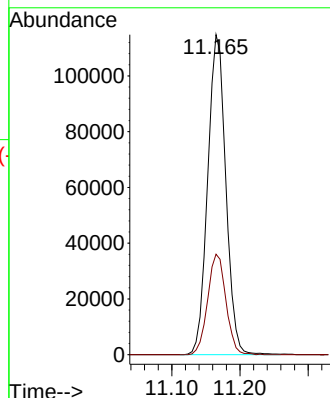
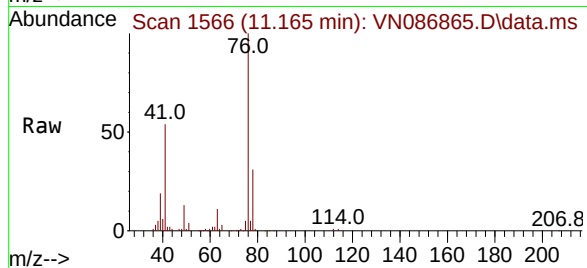
78 31.6 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#58

2-Chloroethyl Vinyl ether

Concen: 212.570 ug/l

RT: 10.165 min Scan# 1396

Delta R.T. 0.000 min

Lab File: VN086865.D

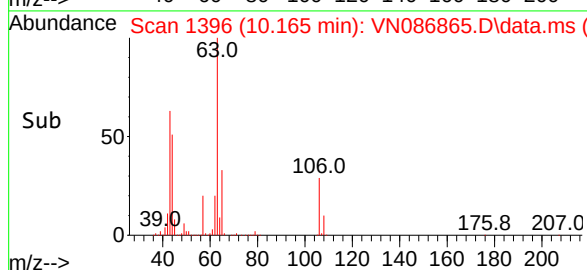
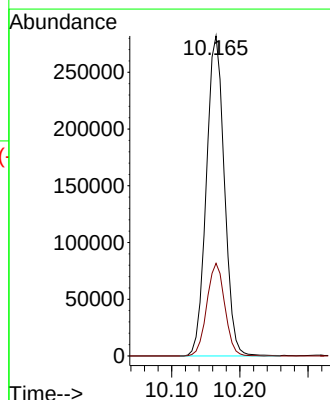
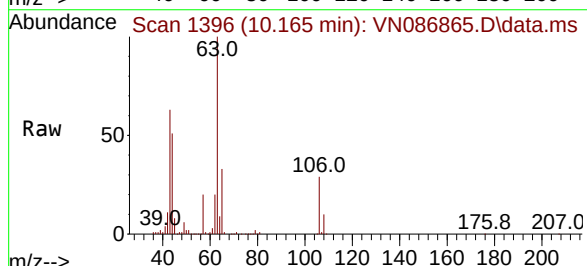
Acq: 06 Jun 2025 14:03

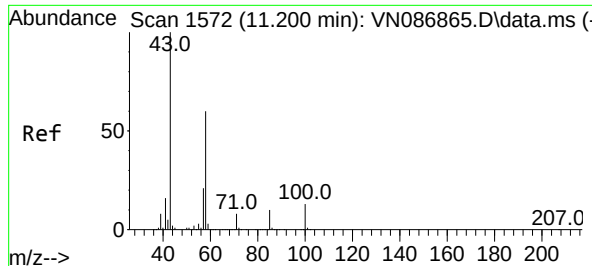
Tgt Ion: 63 Resp: 519139

Ion Ratio Lower Upper

63 100

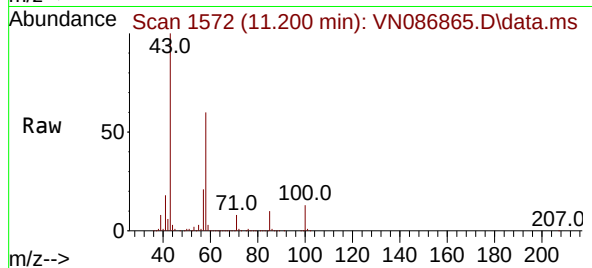
106 28.8 23.0 34.6





#59
2-Hexanone
Concen: 262.977 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

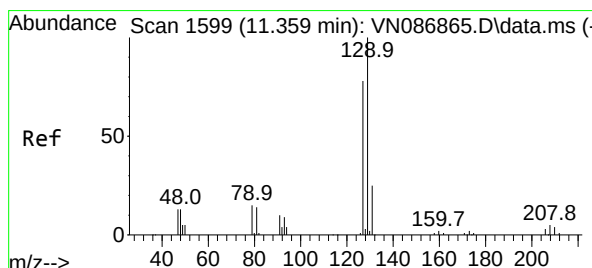
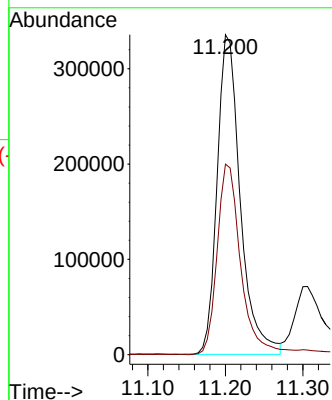
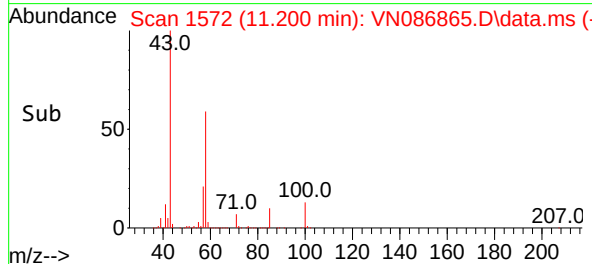
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 43 Resp: 69656
Ion Ratio Lower Upper
43 100
58 60.9 30.4 91.3

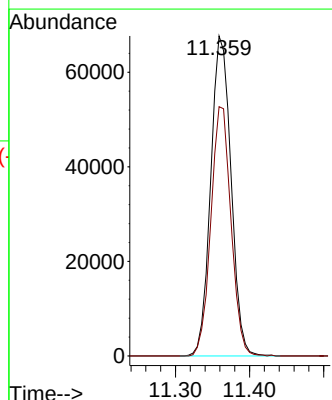
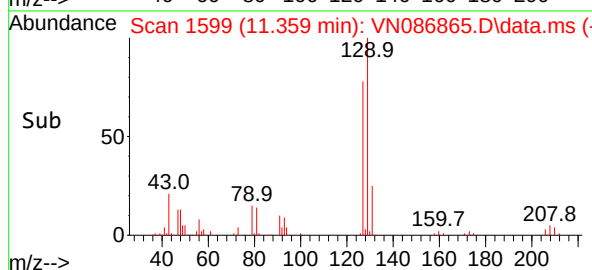
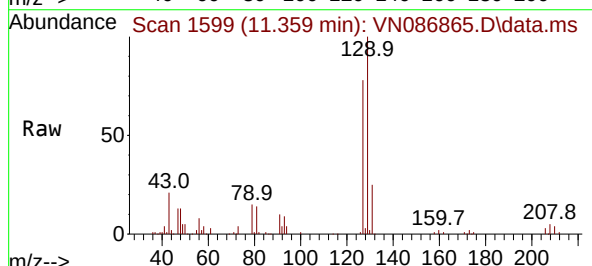
Manual Integrations
APPROVED

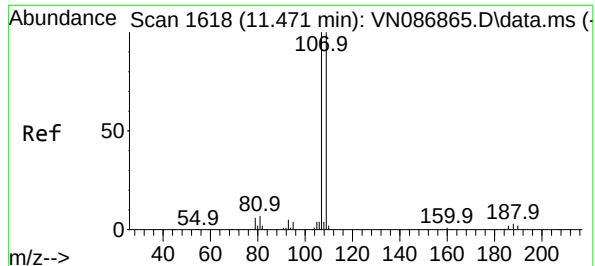
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#60
Dibromochloromethane
Concen: 48.056 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

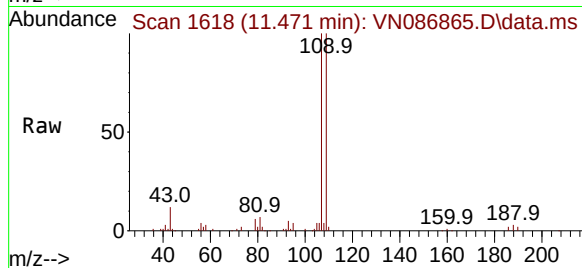
Tgt Ion:129 Resp: 128715
Ion Ratio Lower Upper
129 100
127 77.2 38.6 115.8





#61
1,2-Dibromoethane
Concen: 47.258 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

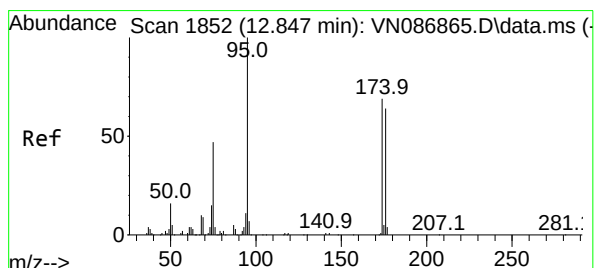
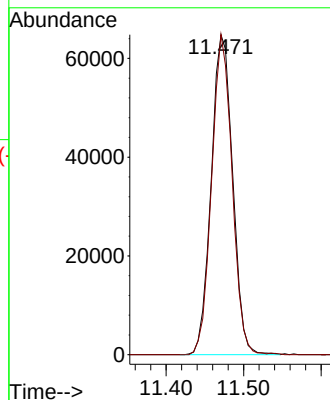
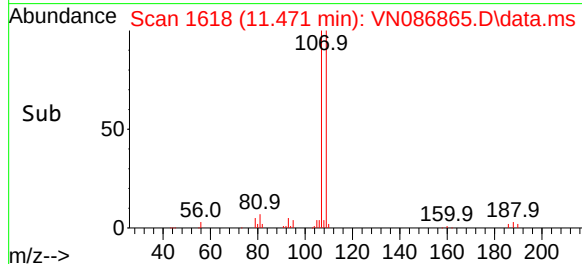
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 107 Resp: 12452
Ion Ratio Lower Upper
107 100
109 95.4 76.3 114.5

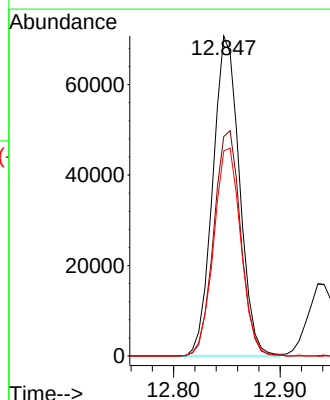
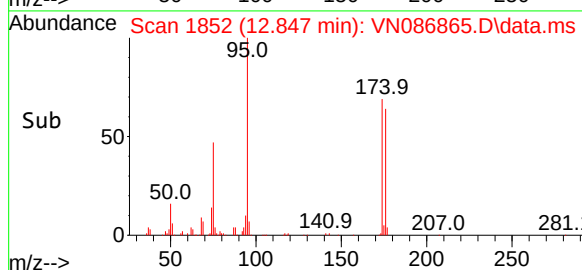
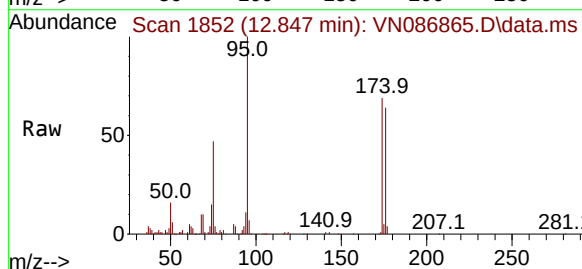
Manual Integrations
APPROVED

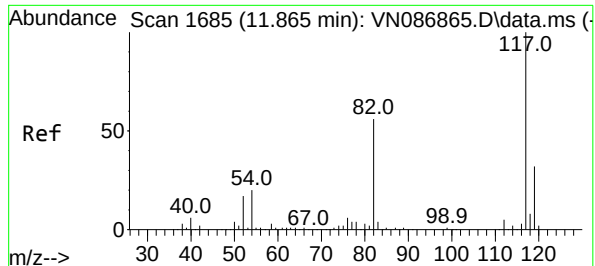
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#62
4-Bromofluorobenzene
Concen: 37.264 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 95 Resp: 122965
Ion Ratio Lower Upper
95 100
174 70.9 0.0 141.8
176 66.3 0.0 132.6





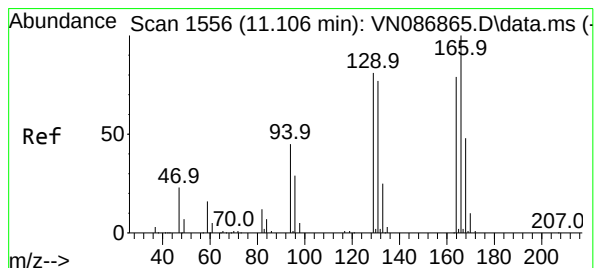
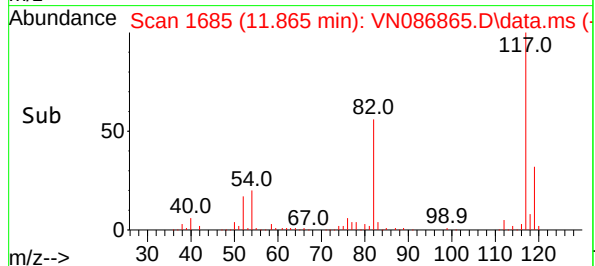
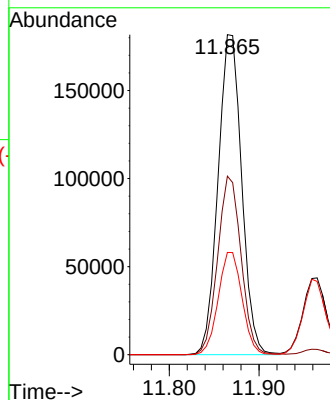
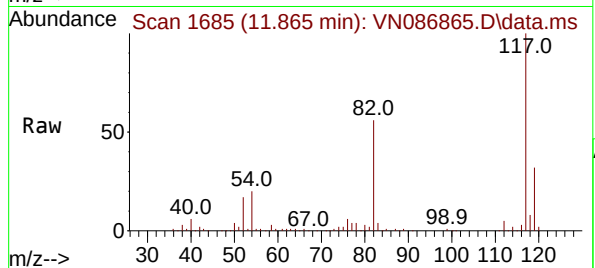
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:117 Resp: 332760
Ion Ratio Lower Upper
117 100
82 55.8 44.6 67.0
119 31.9 25.5 38.3

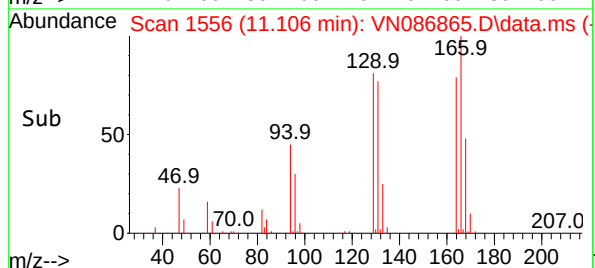
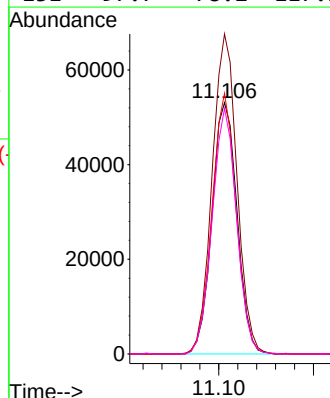
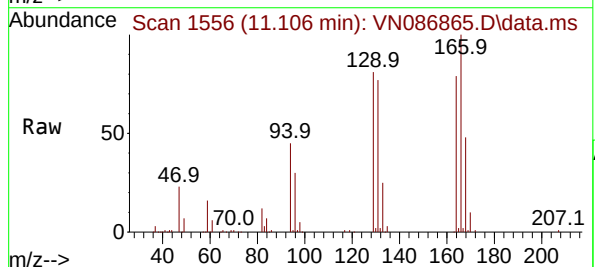
Manual Integrations
APPROVED

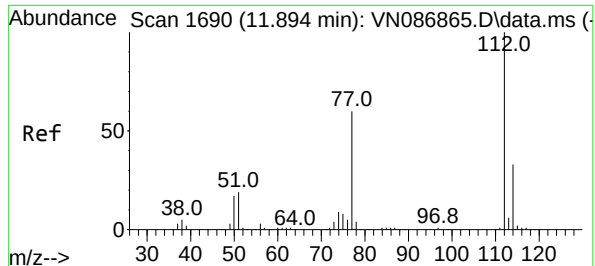
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#64
Tetrachloroethene
Concen: 46.382 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:164 Resp: 97679
Ion Ratio Lower Upper
164 100
166 127.3 101.8 152.8
129 103.7 83.0 124.4
131 97.7 78.2 117.2





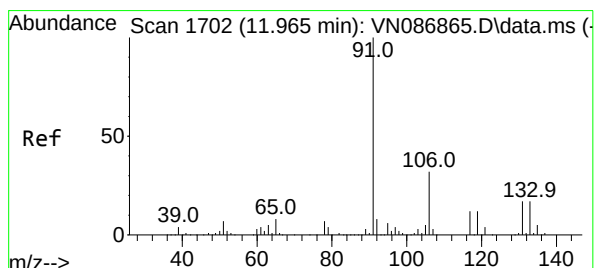
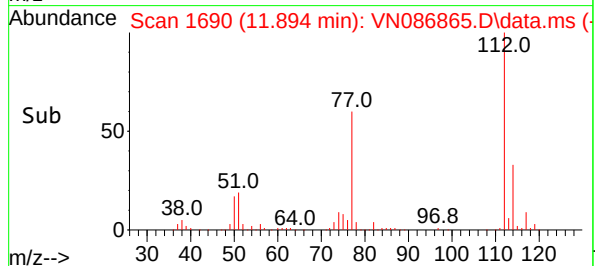
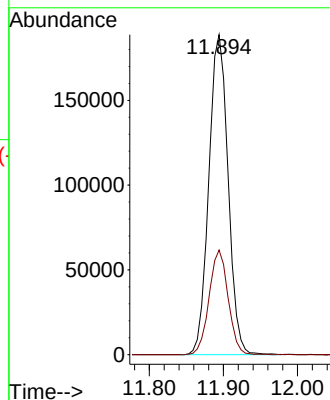
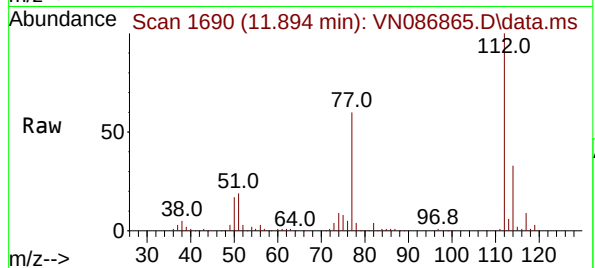
#65
Chlorobenzene
Concen: 46.386 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 340439
Ion Ratio Lower Upper
112 100
114 32.7 26.2 39.2

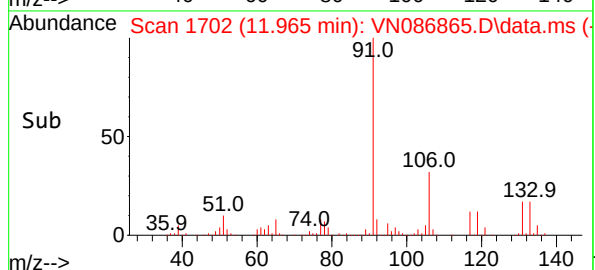
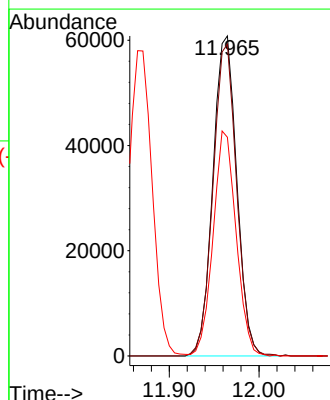
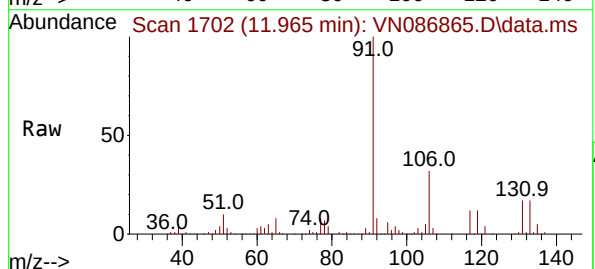
Manual Integrations
APPROVED

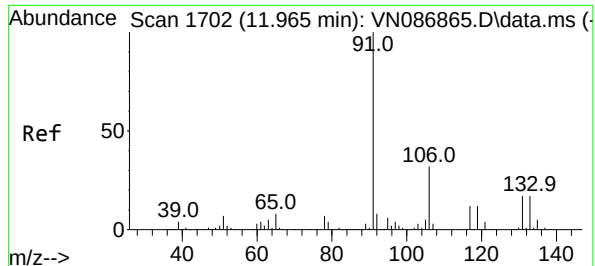
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 47.615 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:131 Resp: 112333
Ion Ratio Lower Upper
131 100
133 96.5 48.3 144.8
119 67.9 34.0 101.8





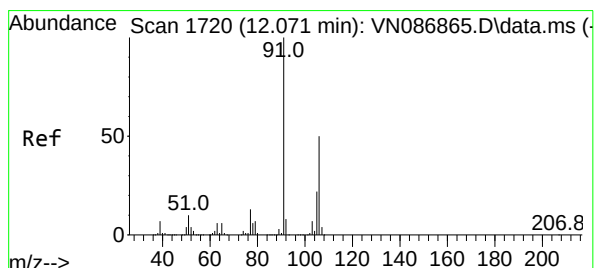
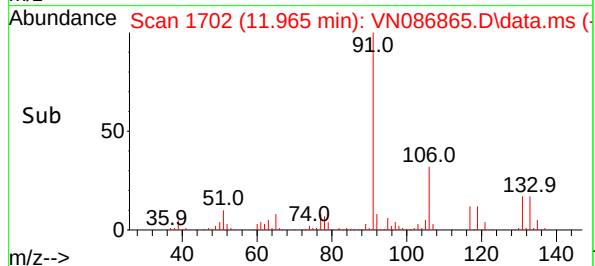
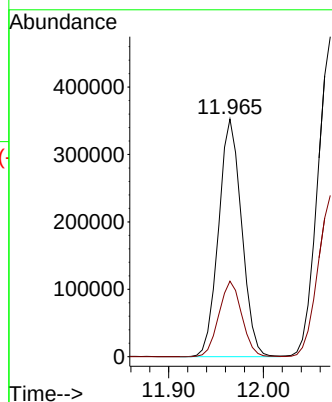
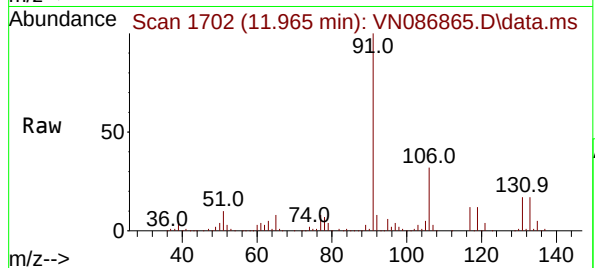
#67
Ethyl Benzene
Concen: 47.271 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 59759
Ion Ratio Lower Upper
91 100
106 31.8 25.4 38.2

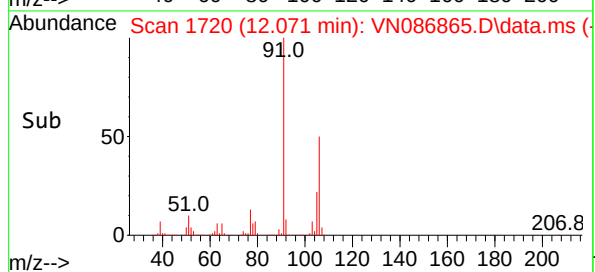
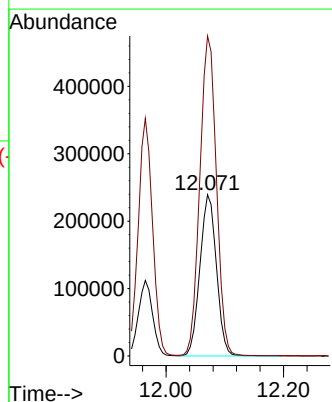
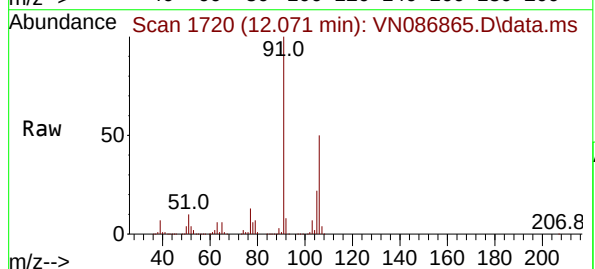
Manual Integrations
APPROVED

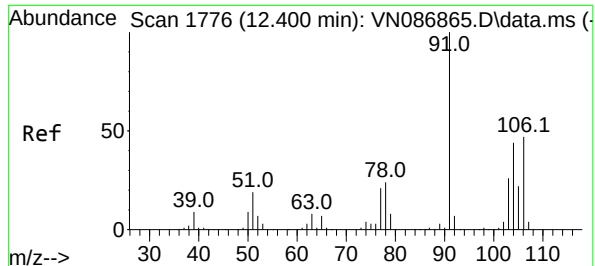
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#68
m/p-Xylenes
Concen: 96.424 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:106 Resp: 466620
Ion Ratio Lower Upper
106 100
91 199.2 159.4 239.0





#69

o-Xylene

Concen: 48.395 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:106 Resp: 224299

Ion Ratio Lower Upper

106 100

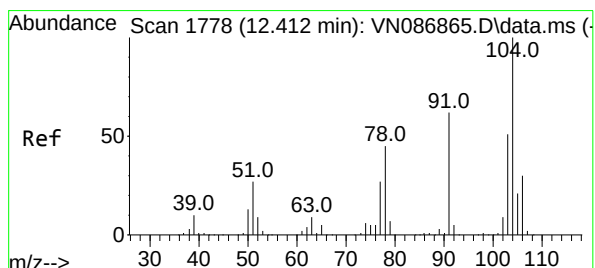
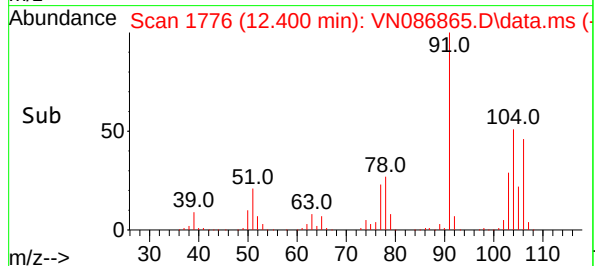
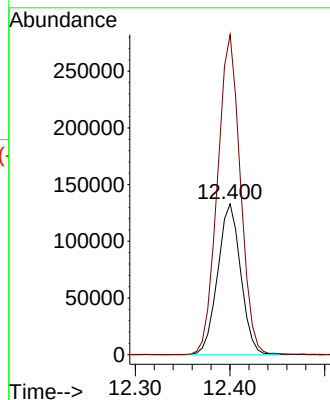
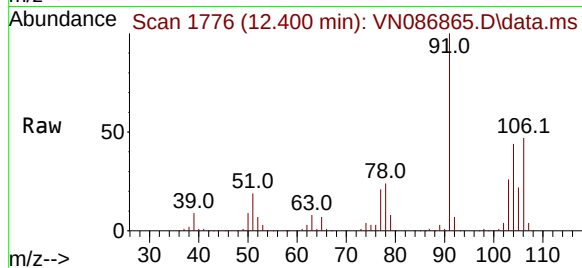
91 212.1 106.1 318.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#70

Styrene

Concen: 48.745 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

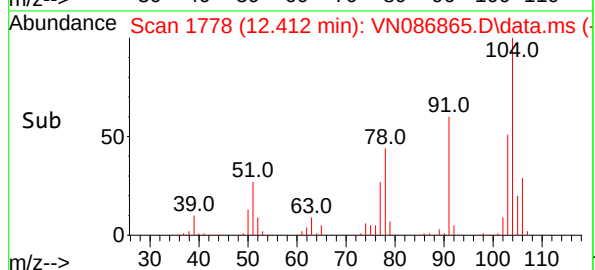
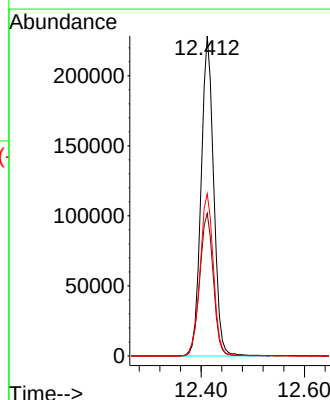
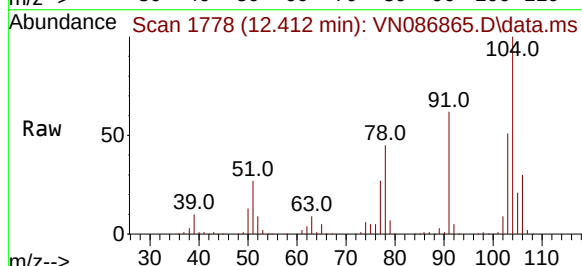
Tgt Ion:104 Resp: 386596

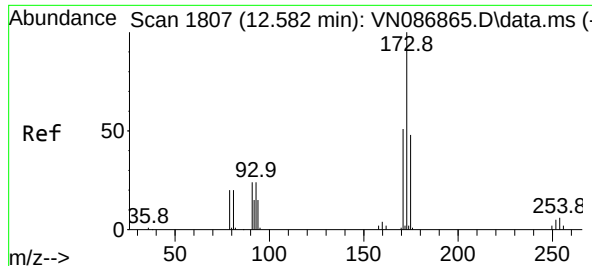
Ion Ratio Lower Upper

104 100

78 48.1 38.5 57.7

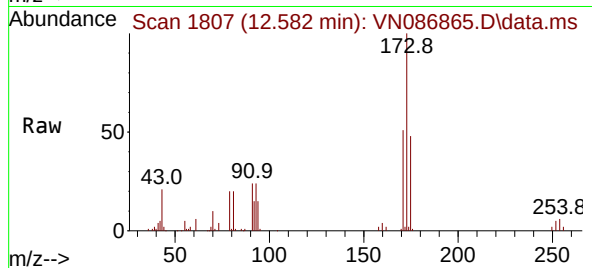
103 53.9 43.1 64.7





#71
Bromoform
Concen: 50.415 ug/l
RT: 12.582 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

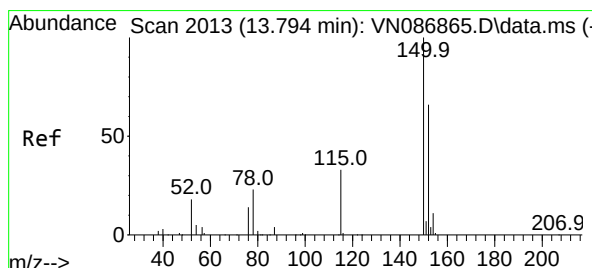
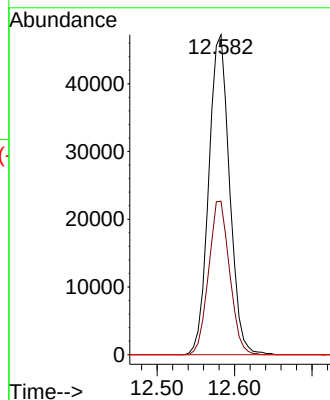
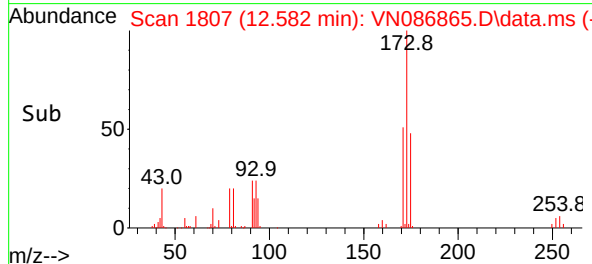
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



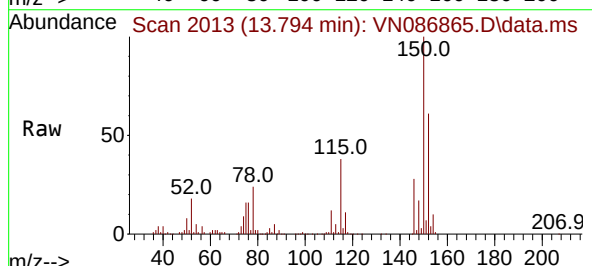
Tgt Ion:173 Resp: 8812
Ion Ratio Lower Upper
173 100
175 48.3 24.1 72.4
254 0.0 0.0 0.0

Manual Integrations
APPROVED

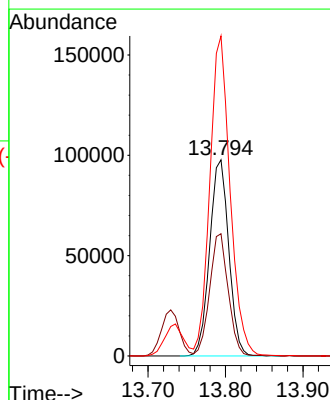
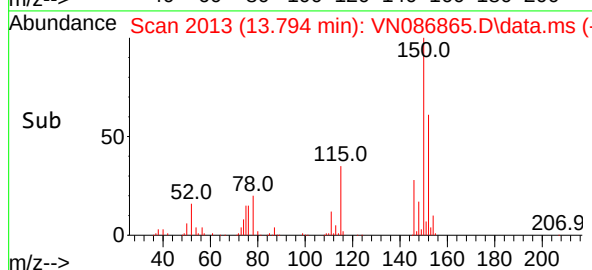
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

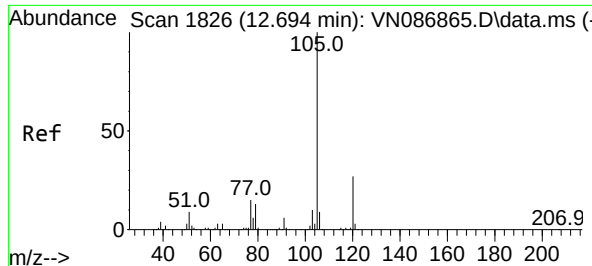


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03



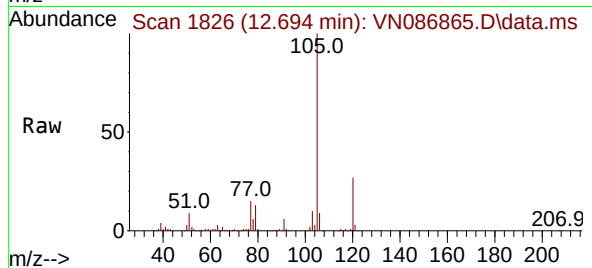
Tgt Ion:152 Resp: 167532
Ion Ratio Lower Upper
152 100
115 60.3 30.1 90.5
150 172.5 0.0 345.0





#73
Isopropylbenzene
Concen: 47.023 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

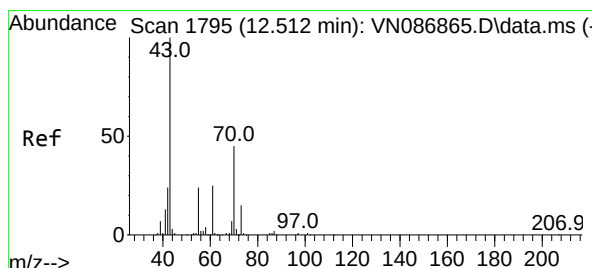
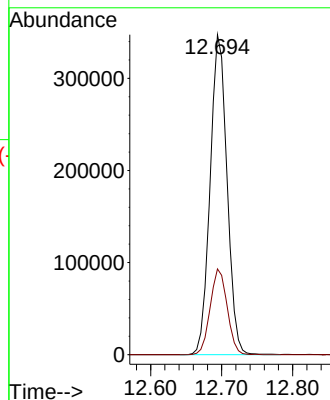
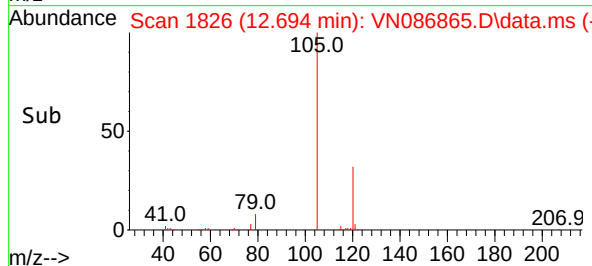
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



Tgt Ion: 105 Resp: 57390
Ion Ratio Lower Upper
105 100
120 26.9 13.5 40.4

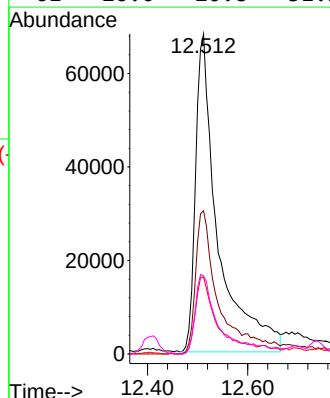
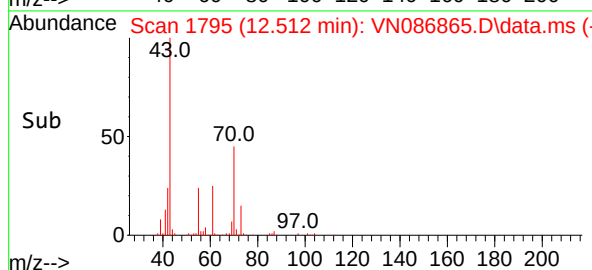
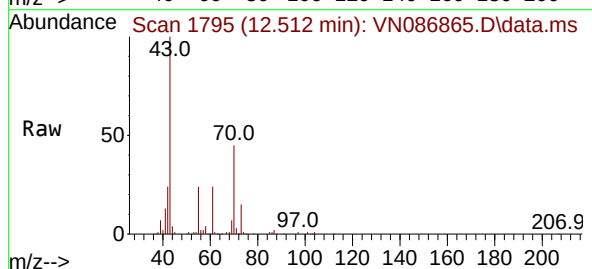
Manual Integrations
APPROVED

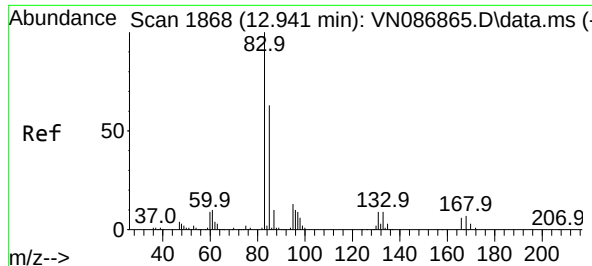
Reviewed By : John Carlone 06/09/2025
Supervised By : Mahesh Dadoda 06/09/2025



#74
N-ethyl acetate
Concen: 52.353 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 43 Resp: 212064
Ion Ratio Lower Upper
43 100
70 47.0 37.6 56.4
55 23.8 19.0 28.6
61 26.0 20.8 31.2





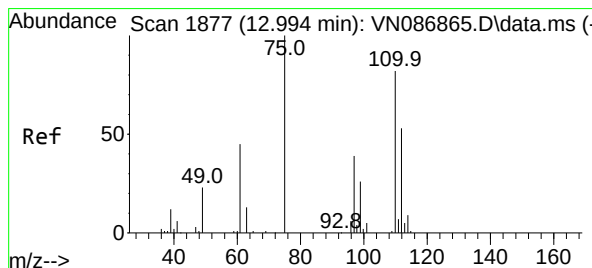
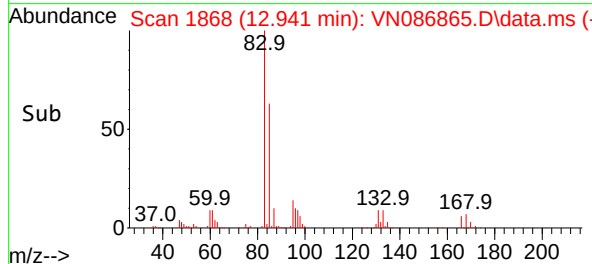
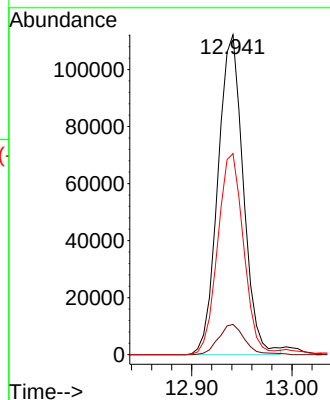
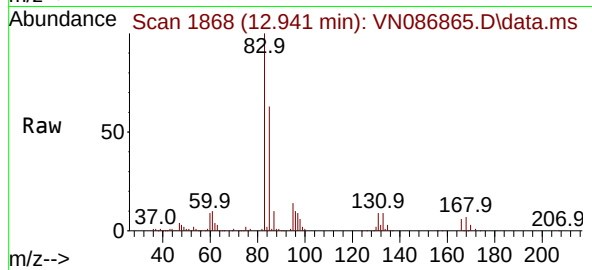
#75
1,1,2,2-Tetrachloroethane
Concen: 47.732 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 197360
Ion Ratio Lower Upper
83 100
131 9.8 4.9 14.7
85 64.0 32.0 96.0

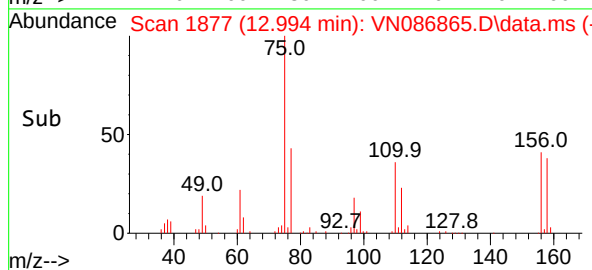
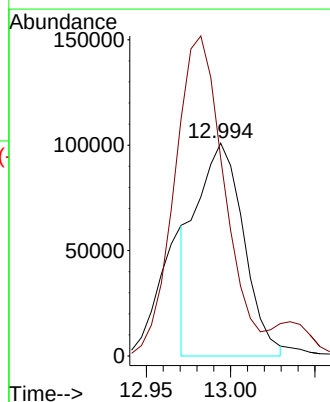
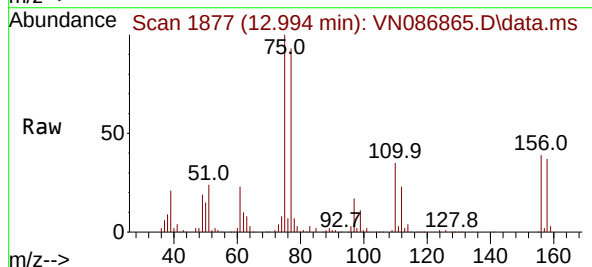
Manual Integrations
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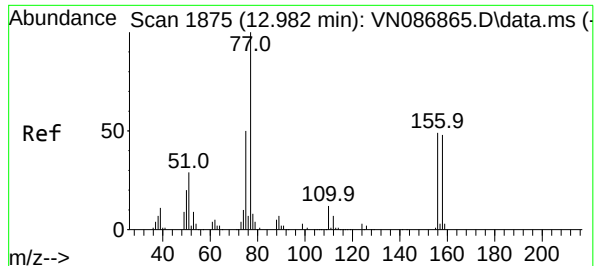
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#76
1,2,3-Trichloropropane
Concen: 49.183 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 75 Resp: 196473
Ion Ratio Lower Upper
75 100
77 158.6 79.3 237.9





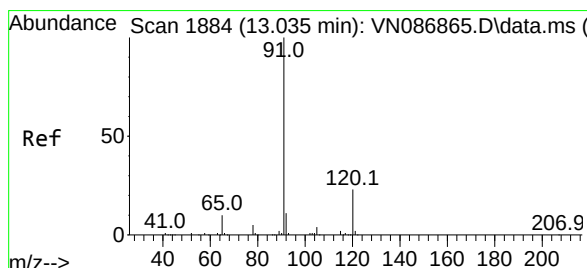
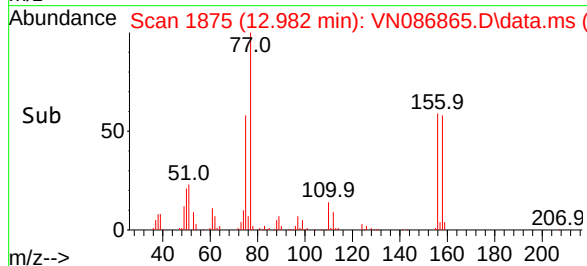
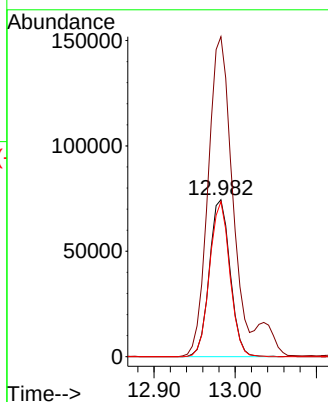
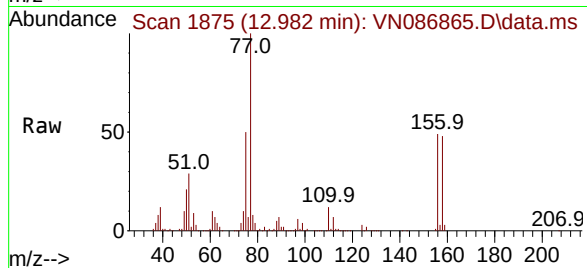
#77
Bromobenzene
Concen: 47.296 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:156 Resp: 13238
Ion Ratio Lower Upper
156 100
77 235.4 117.7 353.1
158 96.3 48.1 144.4

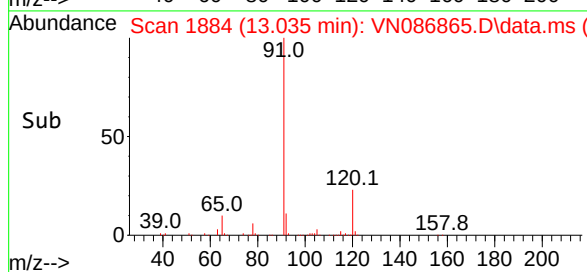
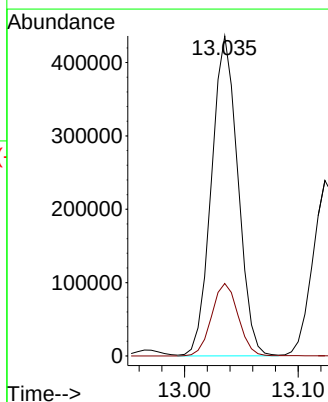
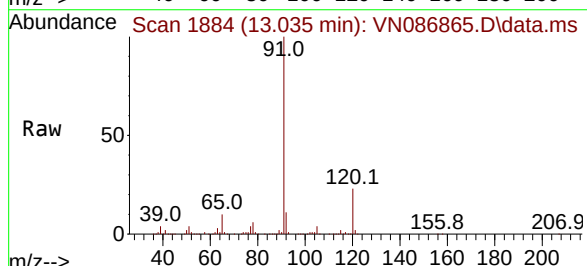
Manual Integrations
APPROVED

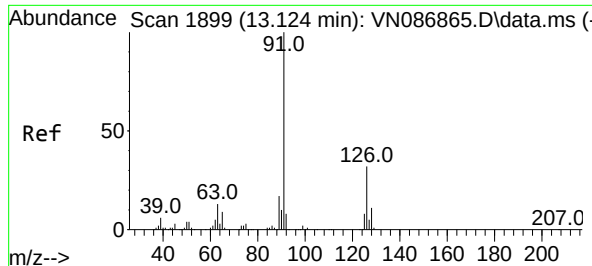
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#78
n-propylbenzene
Concen: 47.567 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion: 91 Resp: 705524
Ion Ratio Lower Upper
91 100
120 22.8 11.4 34.2





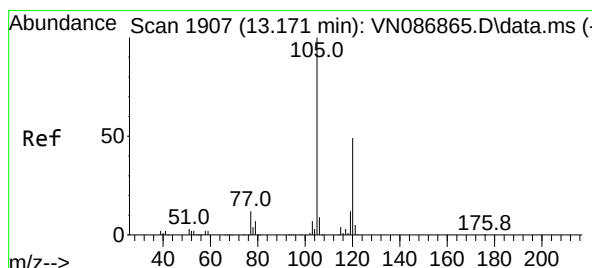
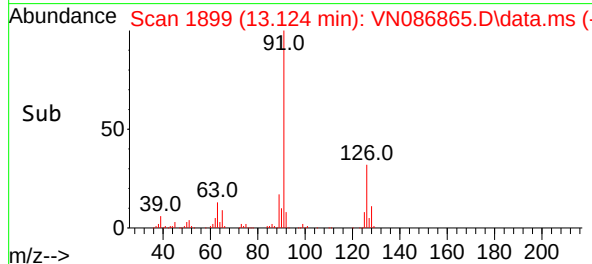
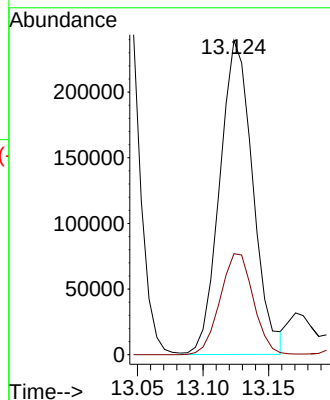
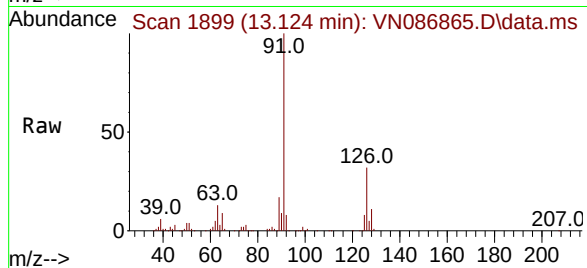
#79
2-Chlorotoluene
Concen: 47.216 ug/l
RT: 13.124 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 419980
Ion Ratio Lower Upper
91 100
126 32.3 16.2 48.5

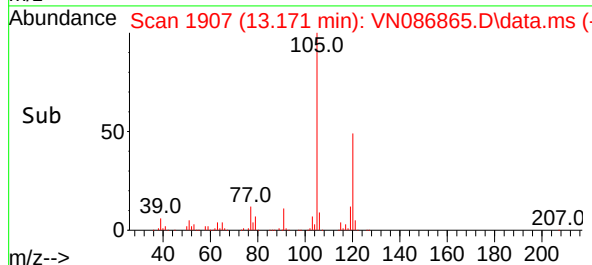
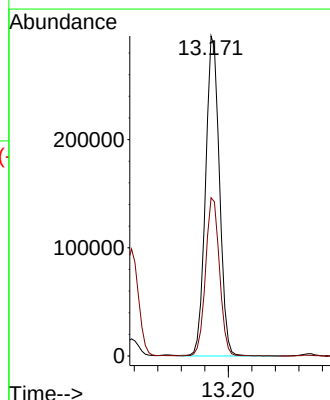
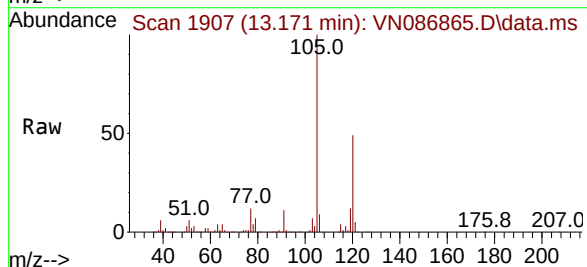
Manual Integrations
APPROVED

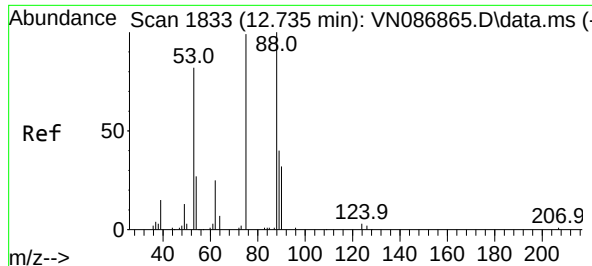
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#80
1,3,5-Trimethylbenzene
Concen: 48.181 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:105 Resp: 485499
Ion Ratio Lower Upper
105 100
120 49.7 24.9 74.6





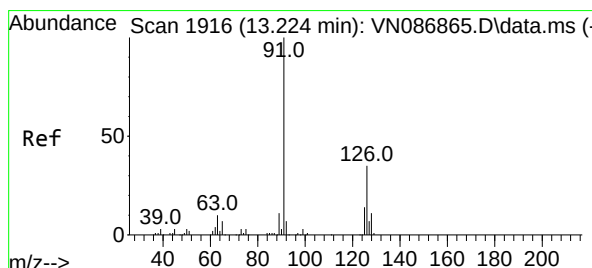
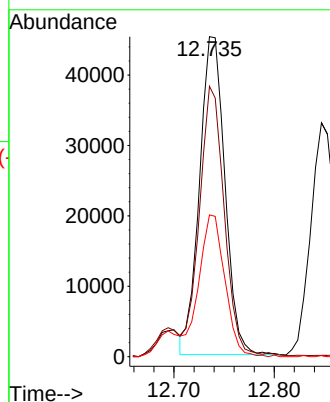
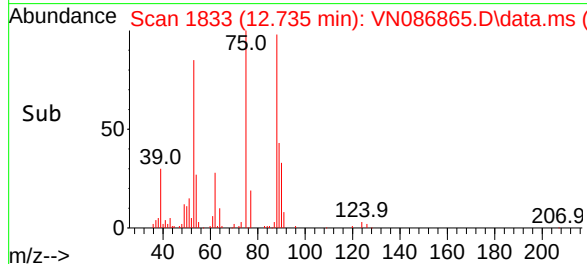
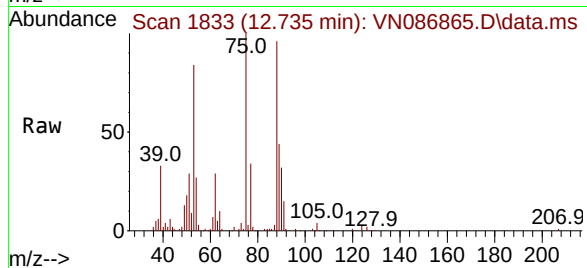
#81
trans-1,4-Dichloro-2-butene
Concen: 46.089 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 7973
Ion Ratio Lower Upper
75 100
53 83.2 66.6 99.8
89 45.9 36.7 55.1

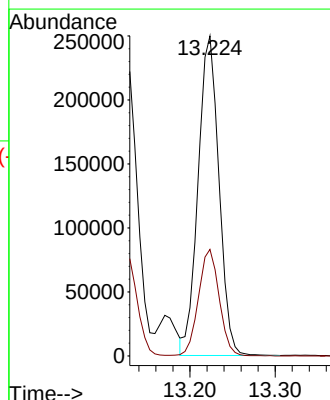
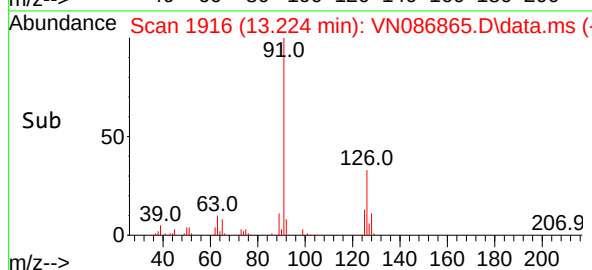
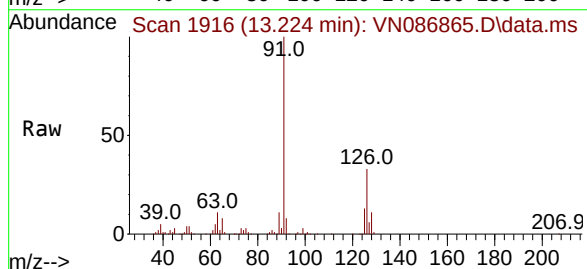
Manual Integrations
APPROVED

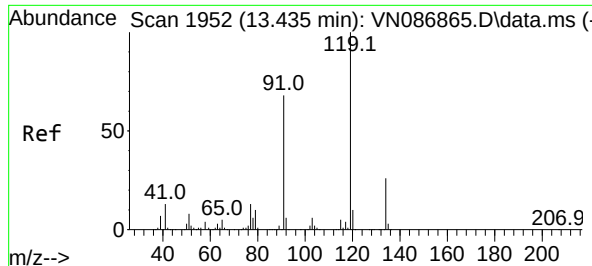
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#82
4-Chlorotoluene
Concen: 47.117 ug/l
RT: 13.224 min Scan# 1916
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

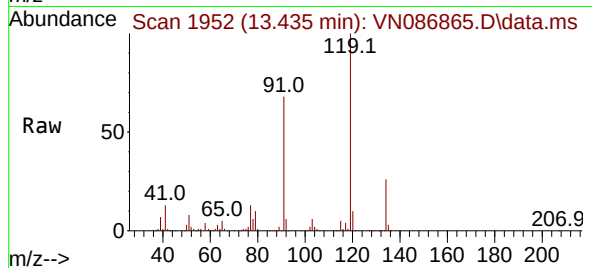
Tgt Ion: 91 Resp: 424066
Ion Ratio Lower Upper
91 100
126 33.4 16.7 50.1





#83
tert-Butylbenzene
Concen: 47.531 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

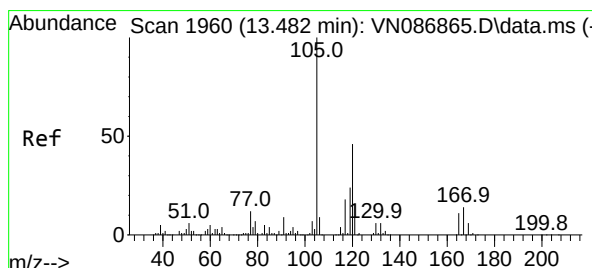
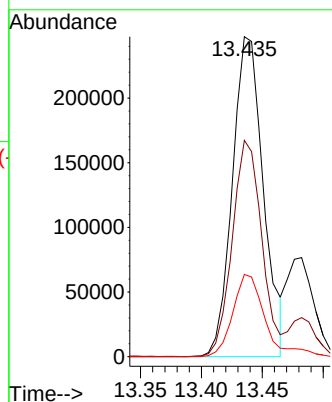
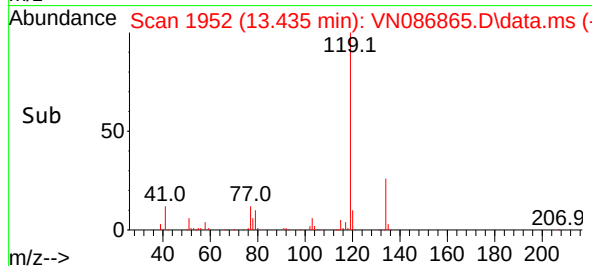
Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050



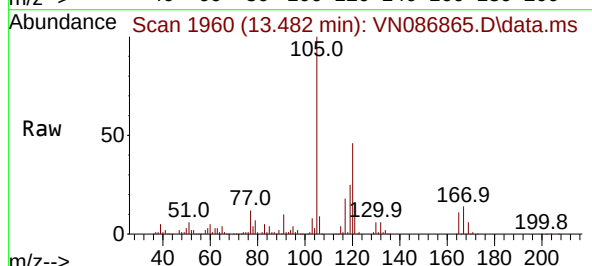
Tgt Ion:119 Resp: 43841
Ion Ratio Lower Upper
119 100
91 64.3 32.1 96.5
134 26.7 13.4 40.1

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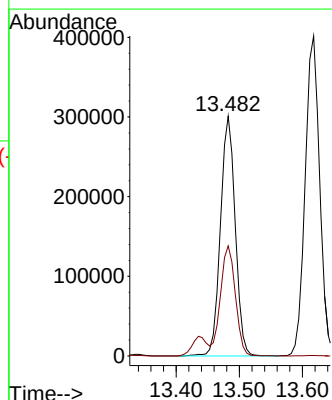
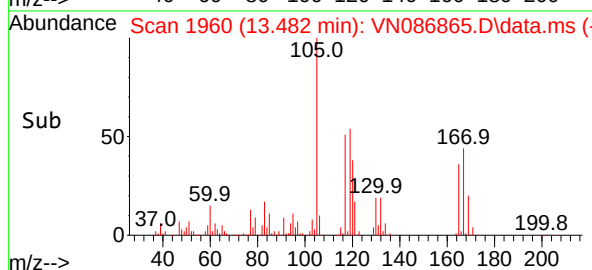
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

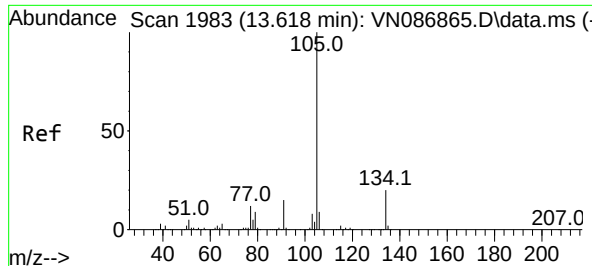


#84
1,2,4-Trimethylbenzene
Concen: 48.314 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03



Tgt Ion:105 Resp: 488189
Ion Ratio Lower Upper
105 100
120 46.4 23.2 69.6





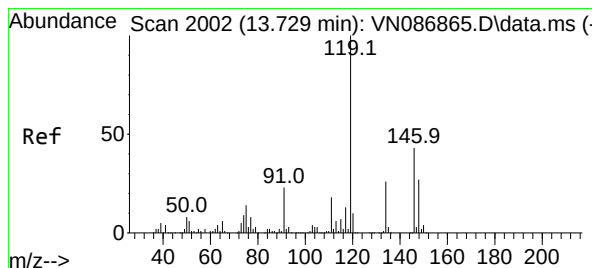
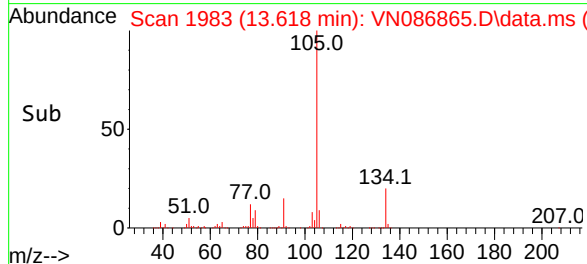
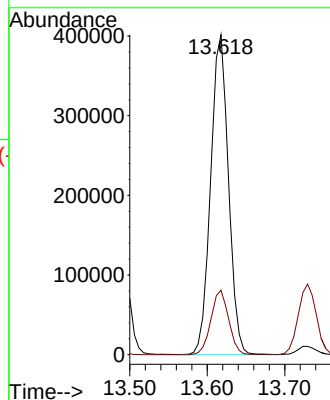
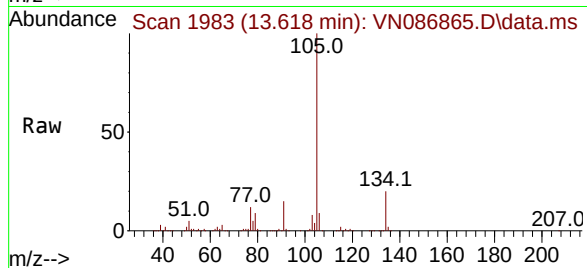
#85
sec-Butylbenzene
Concen: 47.893 ug/l
RT: 13.618 min Scan# 1983
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 64152
Ion Ratio Lower Upper
105 100
134 20.0 10.0 30.0

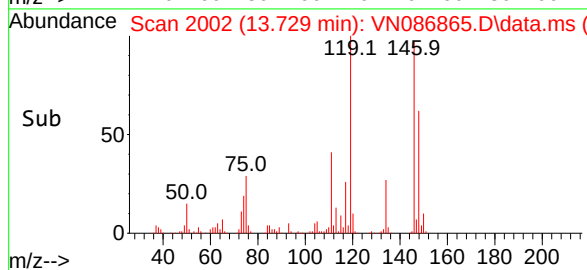
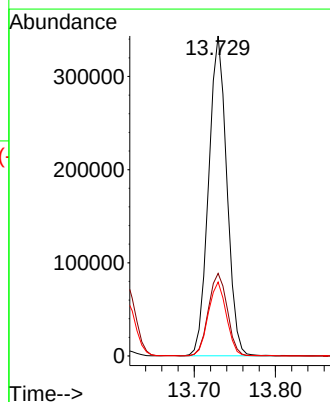
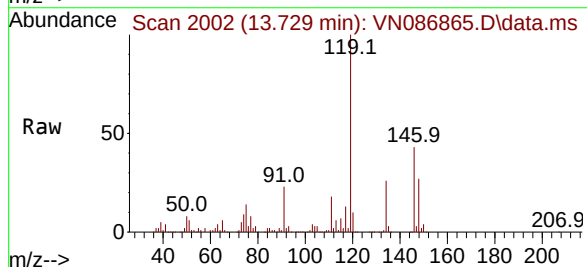
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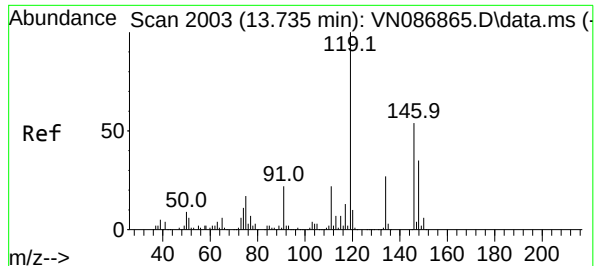
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#86
p-Isopropyltoluene
Concen: 48.169 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:119 Resp: 533366
Ion Ratio Lower Upper
119 100
134 26.9 13.5 40.4
91 22.9 11.5 34.4





#87

1,3-Dichlorobenzene

Concen: 47.269 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 260310

Ion Ratio Lower Upper

146 100

111 41.9 20.9 62.8

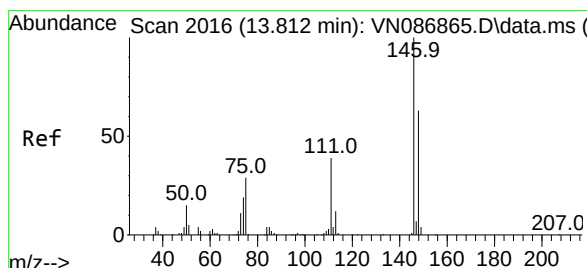
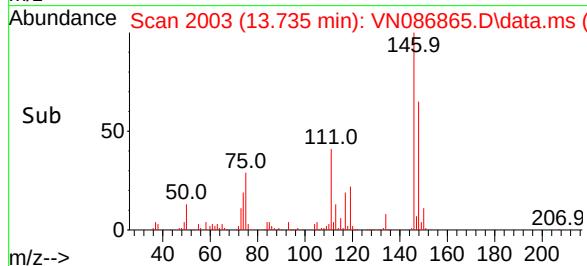
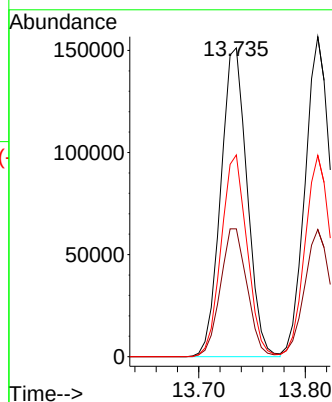
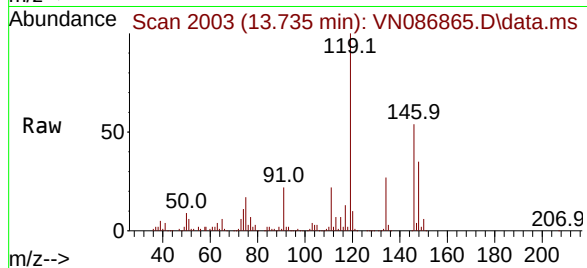
148 64.1 32.0 96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 46.907 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

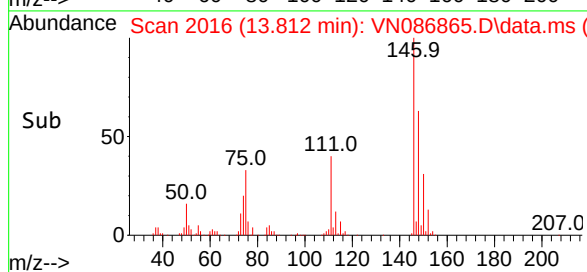
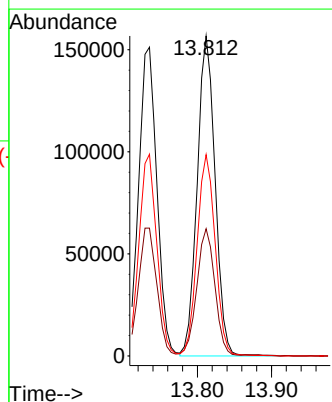
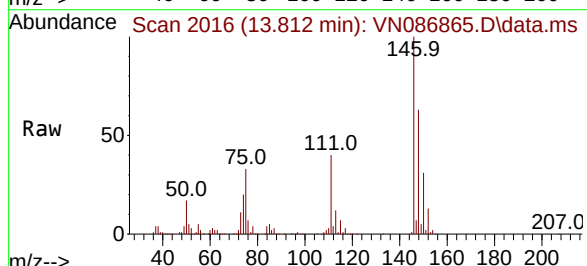
Tgt Ion:146 Resp: 263358

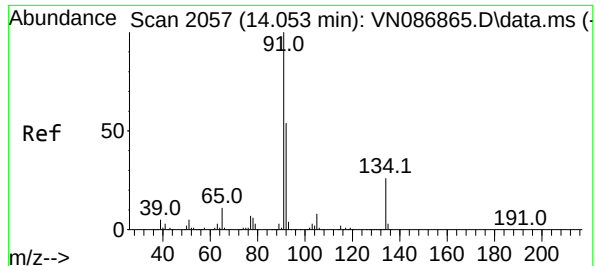
Ion Ratio Lower Upper

146 100

111 39.8 19.9 59.7

148 63.6 31.8 95.4





#89

n-Butylbenzene

Concen: 47.787 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

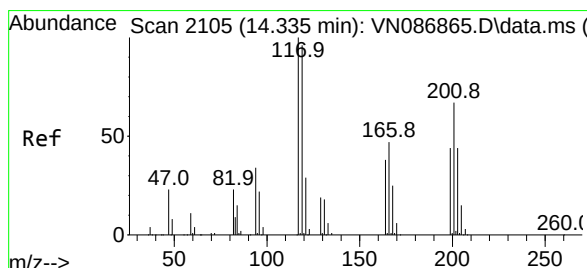
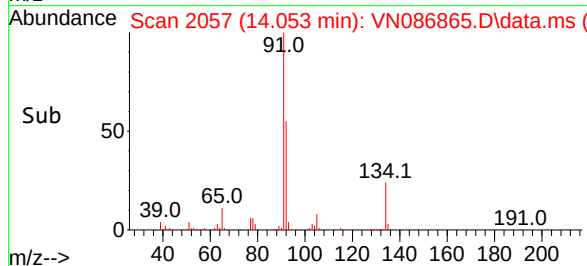
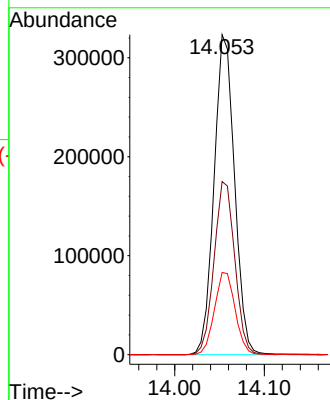
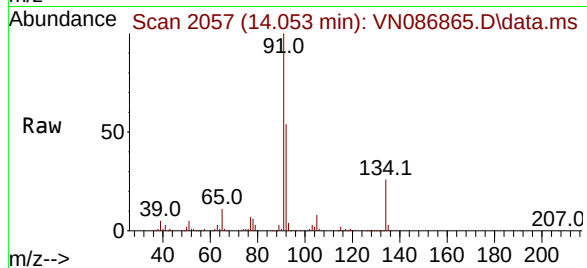
VSTDICCC050

Tgt Ion:	91	Resp:	512519
Ion Ratio	Lower	Upper	
91	100		
92	54.9	27.5	82.4
134	26.0	13.0	39.0

Manual Integrations
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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 47.896 ug/l

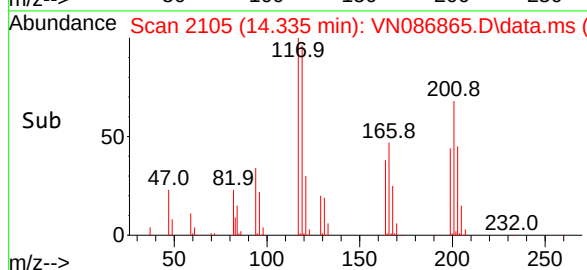
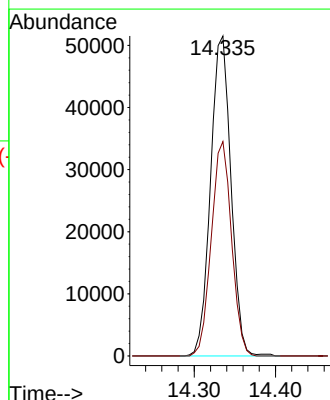
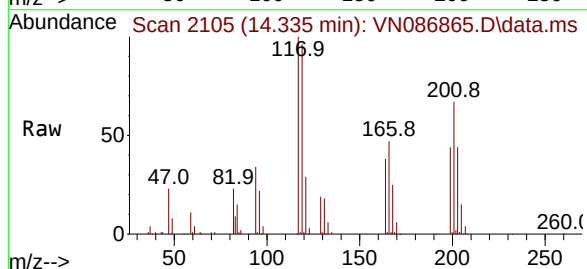
RT: 14.335 min Scan# 2105

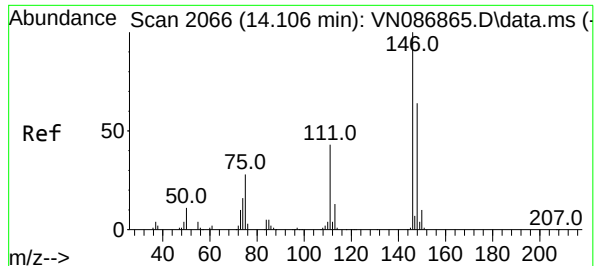
Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Tgt Ion:	117	Resp:	89896
Ion Ratio	Lower	Upper	
117	100		
201	66.4	33.2	99.6





#91

1,2-Dichlorobenzene

Concen: 47.486 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

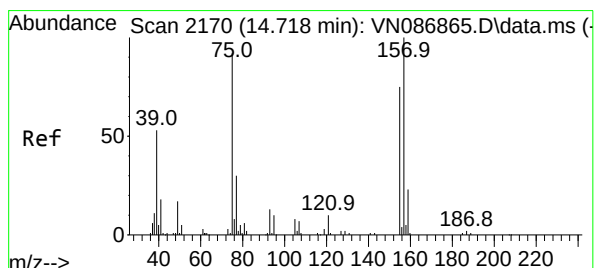
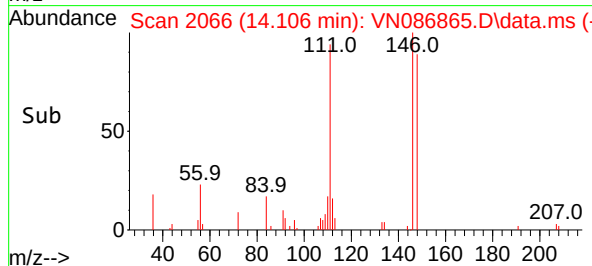
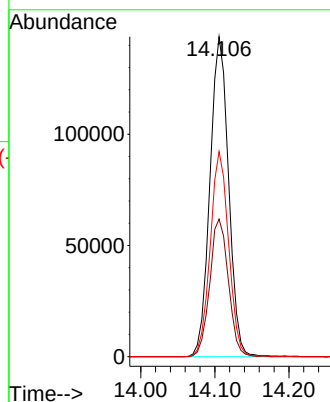
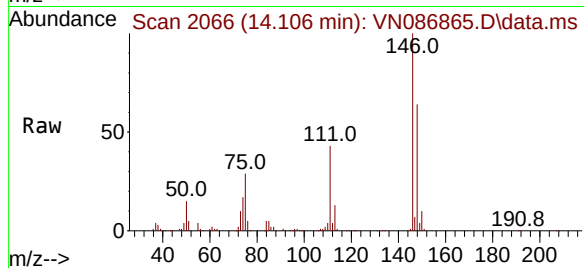
VSTDICCC050

Tgt Ion:	146	Resp:	25123
Ion Ratio	Lower	Upper	
146	100		
111	43.1	21.6	64.6
148	63.4	31.7	95.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 46.049 ug/l

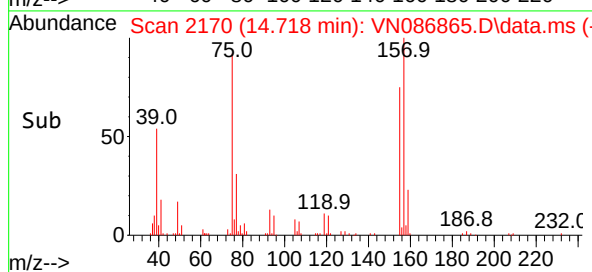
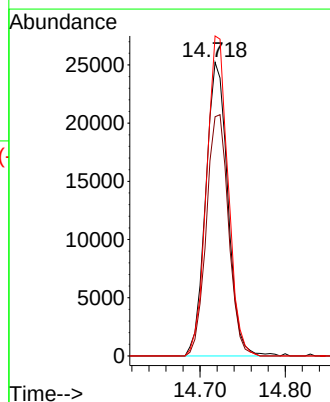
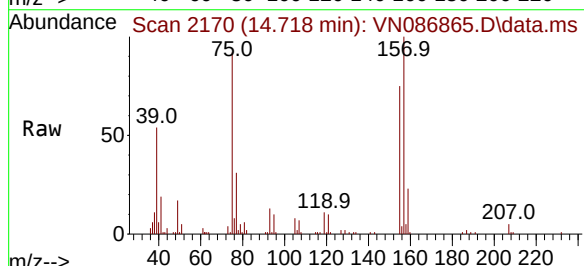
RT: 14.718 min Scan# 2170

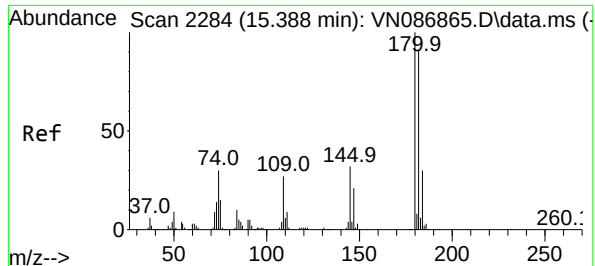
Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Tgt Ion:	75	Resp:	45535
Ion Ratio	Lower	Upper	
75	100		
155	82.3	41.1	123.4
157	105.4	52.7	158.1





#93

1,2,4-Trichlorobenzene

Concen: 48.061 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

Instrument :

MSVOA_N

ClientSampleId :

VSTDICCC050

Tgt Ion:180 Resp: 162374

Ion Ratio Lower Upper

180 100

182 93.8 46.9 140.7

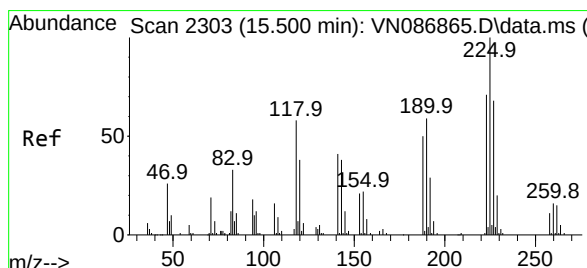
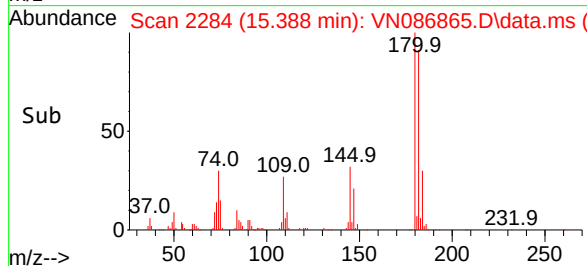
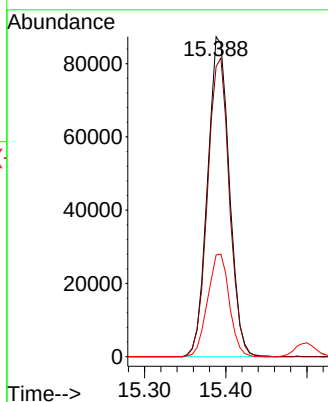
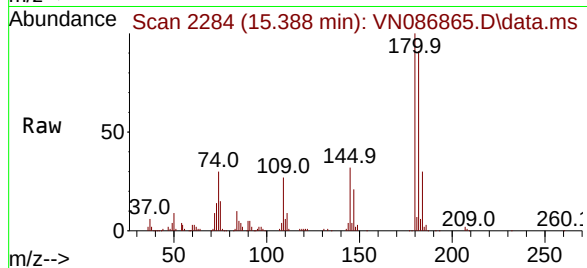
145 31.9 16.0 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#94

Hexachlorobutadiene

Concen: 48.356 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN086865.D

Acq: 06 Jun 2025 14:03

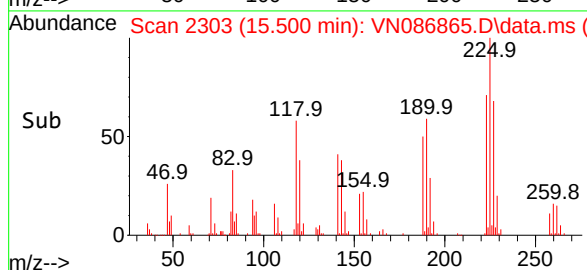
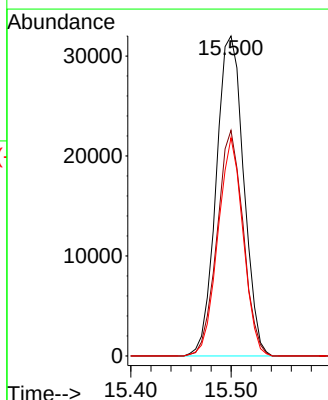
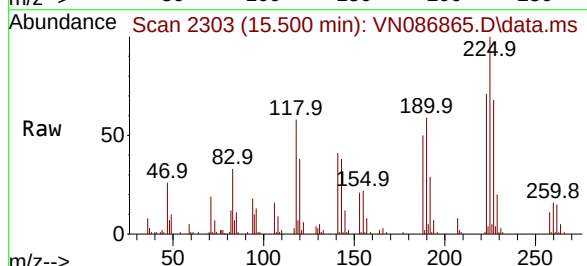
Tgt Ion:225 Resp: 60866

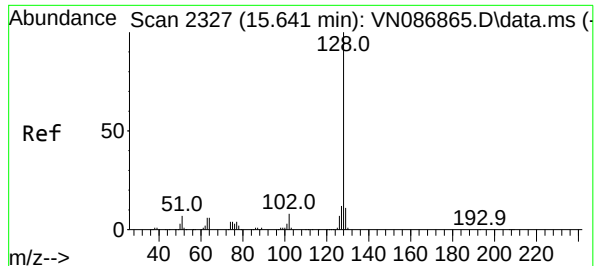
Ion Ratio Lower Upper

225 100

223 66.9 33.5 100.4

227 62.3 31.1 93.5





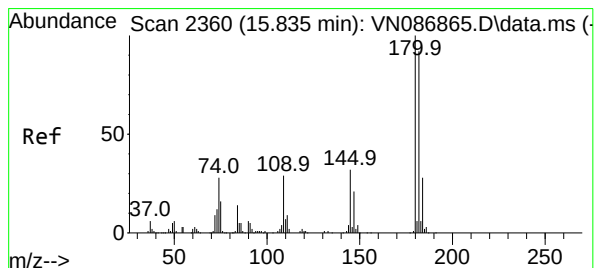
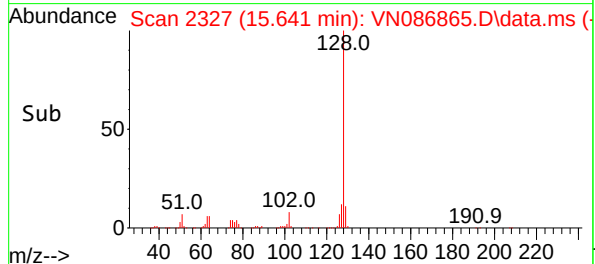
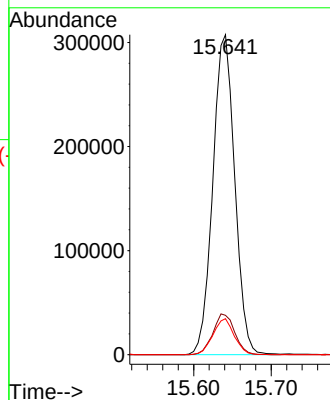
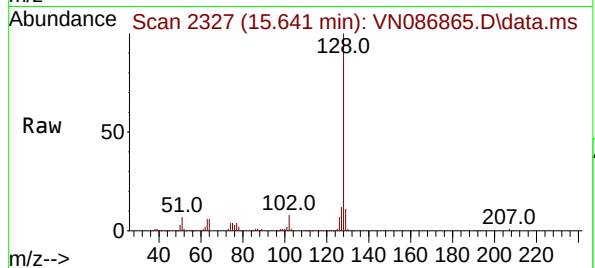
#95
Naphthalene
Concen: 47.958 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Instrument :
MSVOA_N
ClientSampleId :
VSTDICCC050

Tgt Ion:128 Resp: 603088
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.2
129 11.0 8.8 13.2

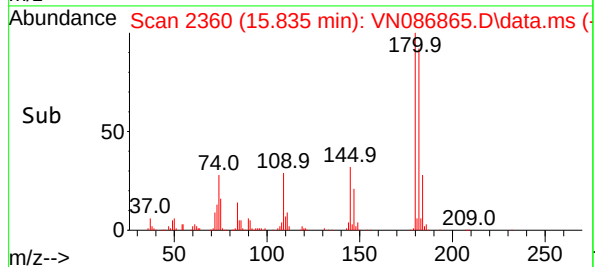
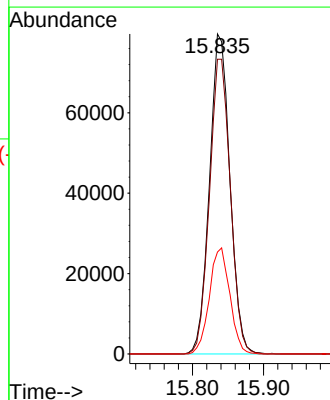
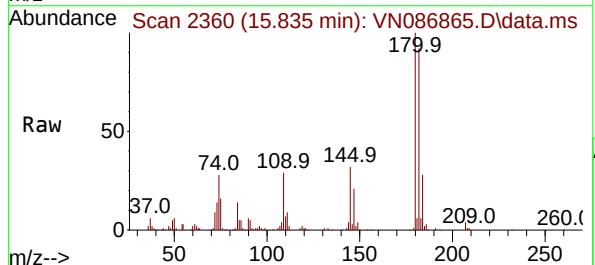
Manual Integrations
APPROVED

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



#96
1,2,3-Trichlorobenzene
Concen: 47.402 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086865.D
Acq: 06 Jun 2025 14:03

Tgt Ion:180 Resp: 159113
Ion Ratio Lower Upper
180 100
182 94.0 47.0 141.0
145 33.2 16.6 49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086866.D
 Acq On : 06 Jun 2025 14:26
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Jun 07 01:58:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	181996	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	327782	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	290313	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	147098	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	238957	98.065	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 196.120%#			
35) Dibromofluoromethane	8.177	113	195212	100.495	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 200.980%#			
50) Toluene-d8	10.570	98	772210	100.419	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 200.840%#			
62) 4-Bromofluorobenzene	12.847	95	292385	102.339	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 204.680%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.153	85	194799	107.350	ug/l	100
3) Chloromethane	2.395	50	224558	95.833	ug/l	98
4) Vinyl Chloride	2.553	62	245135	101.414	ug/l	98
5) Bromomethane	2.977	94	137967	101.996	ug/l	99
6) Chloroethane	3.147	64	152150	97.447	ug/l	97
7) Trichlorofluoromethane	3.524	101	312394	98.917	ug/l	99
8) Diethyl Ether	3.983	74	139844	101.631	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.389	101	198739	100.163	ug/l	99
10) Methyl Iodide	4.612	142	262771	102.162	ug/l	99
11) Tert butyl alcohol	5.547	59	327987	496.062	ug/l	99
12) 1,1-Dichloroethene	4.359	96	200212	98.838	ug/l	99
13) Acrolein	4.200	56	94171	449.961	ug/l	98
14) Allyl chloride	5.047	41	329412	98.055	ug/l	99
15) Acrylonitrile	5.735	53	770470	498.552	ug/l	99
16) Acetone	4.447	43	608178	470.648	ug/l	98
17) Carbon Disulfide	4.736	76	544511	97.179	ug/l	100
18) Methyl Acetate	5.047	43	381808	101.390	ug/l	100
19) Methyl tert-butyl Ether	5.818	73	735694	100.306	ug/l	100
20) Methylene Chloride	5.294	84	228800	94.575	ug/l	97
21) trans-1,2-Dichloroethene	5.806	96	215177	95.476	ug/l	99
22) Diisopropyl ether	6.688	45	696881	98.409	ug/l	98
23) Vinyl Acetate	6.618	43	2919350	487.936	ug/l	100
24) 1,1-Dichloroethane	6.588	63	404207	99.186	ug/l	99
25) 2-Butanone	7.494	43	1043385	496.743	ug/l	100
26) 2,2-Dichloropropane	7.500	77	331995	104.729	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	265248	98.410	ug/l	99
28) Bromochloromethane	7.824	49	188050	93.851	ug/l	99
29) Tetrahydrofuran	7.847	42	677636	495.240	ug/l	99
30) Chloroform	7.977	83	394927	97.040	ug/l	99
31) Cyclohexane	8.265	56	374933	94.869	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	336819	97.306	ug/l	99
36) 1,1-Dichloropropene	8.382	75	289907	100.156	ug/l	99
37) Ethyl Acetate	7.571	43	370652	100.591	ug/l	99
38) Carbon Tetrachloride	8.371	117	285325	100.404	ug/l	98
39) Methylcyclohexane	9.606	83	395603	99.758	ug/l	99
40) Benzene	8.612	78	927083	97.946	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086866.D
 Acq On : 06 Jun 2025 14:26
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations APPROVED

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

Quant Time: Jun 07 01:58:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.794	41	195946	94.688	ug/l	95
42) 1,2-Dichloroethane	8.676	62	282015	98.232	ug/l	100
43) Isopropyl Acetate	8.694	43	579464	97.981	ug/l	99
44) Trichloroethene	9.359	130	222822	99.280	ug/l	97
45) 1,2-Dichloropropane	9.629	63	230454	100.077	ug/l	98
46) Dibromomethane	9.712	93	155530	101.685	ug/l	99
47) Bromodichloromethane	9.894	83	316375	100.533	ug/l	100
48) Methyl methacrylate	9.682	41	275710	101.288	ug/l	99
49) 1,4-Dioxane	9.706	88	104771	2115.744	ug/l #	99
51) 4-Methyl-2-Pentanone	10.447	43	1843274	517.729	ug/l	99
52) Toluene	10.635	92	578978	100.092	ug/l	100
53) t-1,3-Dichloropropene	10.841	75	359200	102.077	ug/l	99
54) cis-1,3-Dichloropropene	10.318	75	383030	101.730	ug/l	99
55) 1,1,2-Trichloroethane	11.017	97	219922	98.808	ug/l	98
56) Ethyl methacrylate	10.882	69	389802	109.955	ug/l	99
57) 1,3-Dichloropropane	11.165	76	382510	99.069	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.165	63	1113523	526.621	ug/l	100
59) 2-Hexanone	11.200	43	1301539	567.535	ug/l	99
60) Dibromochloromethane	11.359	129	237965	102.616	ug/l	100
61) 1,2-Dibromoethane	11.470	107	232214	101.787	ug/l	98
64) Tetrachloroethene	11.106	164	181568	98.824	ug/l	94
65) Chlorobenzene	11.894	112	632563	98.793	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	206895	100.521	ug/l	100
67) Ethyl Benzene	11.964	91	1110803	100.717	ug/l	99
68) m/p-Xylenes	12.070	106	854557	202.411	ug/l	99
69) o-Xylene	12.400	106	412719	102.070	ug/l	100
70) Styrene	12.412	104	713548	103.127	ug/l	100
71) Bromoform	12.576	173	165781	108.707	ug/l #	99
73) Isopropylbenzene	12.694	105	1065297	99.410	ug/l	100
74) N-amyl acetate	12.506	43	403587	113.475	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.941	83	354386	97.616	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	353334m	100.738	ug/l	
77) Bromobenzene	12.982	156	246413	100.266	ug/l	99
78) n-propylbenzene	13.035	91	1301631	99.948	ug/l	100
79) 2-Chlorotoluene	13.123	91	770308	98.630	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	901317	101.873	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	160736	105.820	ug/l	92
82) 4-Chlorotoluene	13.223	91	783657	99.166	ug/l	100
83) tert-Butylbenzene	13.435	119	807528	99.710	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	904794	101.983	ug/l	100
85) sec-Butylbenzene	13.617	105	1182155	100.513	ug/l	99
86) p-Isopropyltoluene	13.729	119	990273	101.857	ug/l	100
87) 1,3-Dichlorobenzene	13.735	146	474162	98.063	ug/l	100
88) 1,4-Dichlorobenzene	13.811	146	483003	97.978	ug/l	99
89) n-Butylbenzene	14.053	91	937913	99.598	ug/l	100
90) Hexachloroethane	14.335	117	169772	103.019	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	458049	98.602	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	83243	95.877	ug/l	96
93) 1,2,4-Trichlorobenzene	15.394	180	298870	100.751	ug/l	99
94) Hexachlorobutadiene	15.500	225	112496	101.789	ug/l	98
95) Naphthalene	15.641	128	1129434	102.290	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	294127	99.796	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086866.D
Acq On : 06 Jun 2025 14:26
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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

Quant Time: Jun 07 01:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

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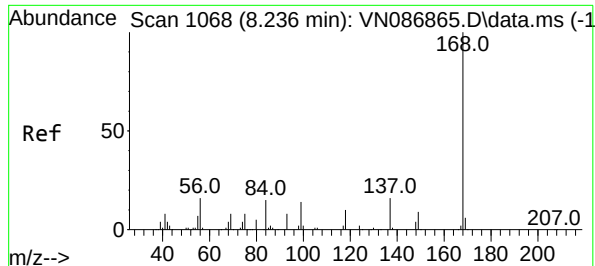
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

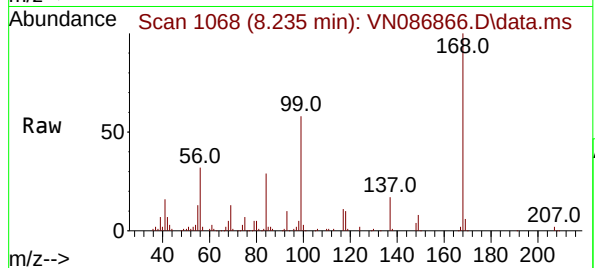
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

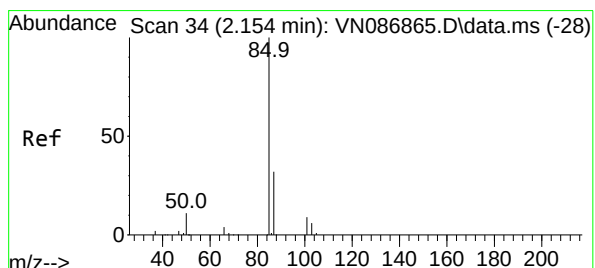
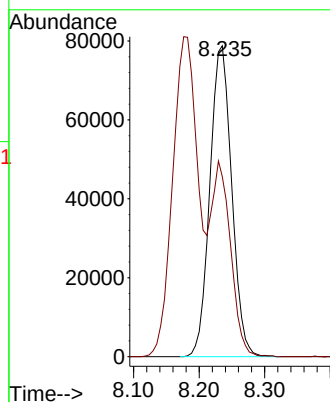
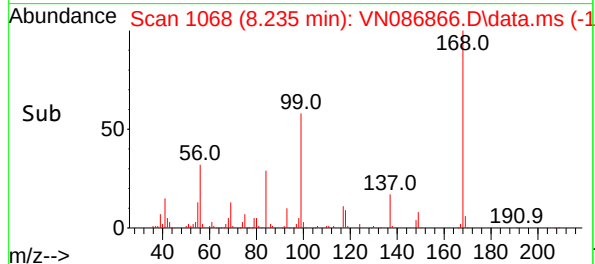
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:168 Resp: 181990
Ion Ratio Lower Upper
168 100
99 57.9 49.1 73.7

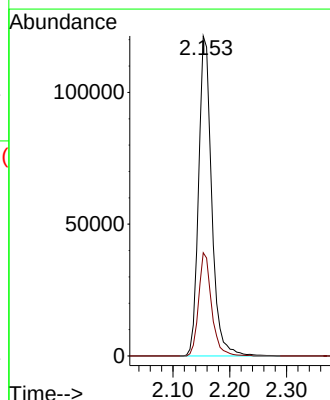
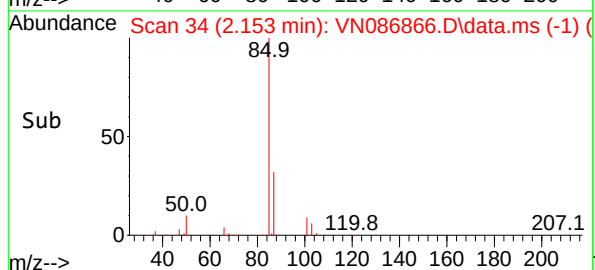
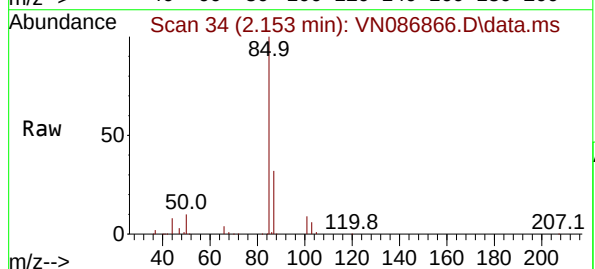
Manual Integrations
APPROVED

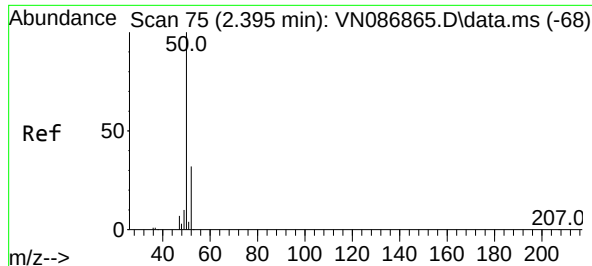
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 107.350 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 85 Resp: 194799
Ion Ratio Lower Upper
85 100
87 32.3 16.2 48.6





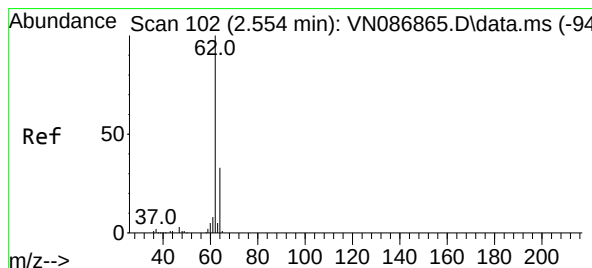
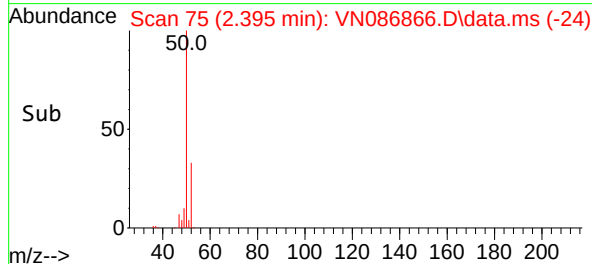
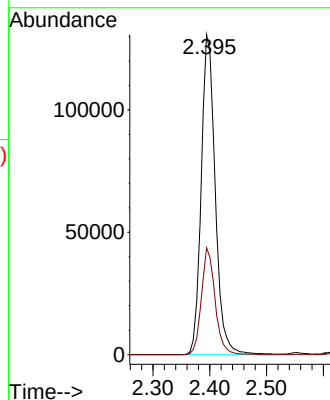
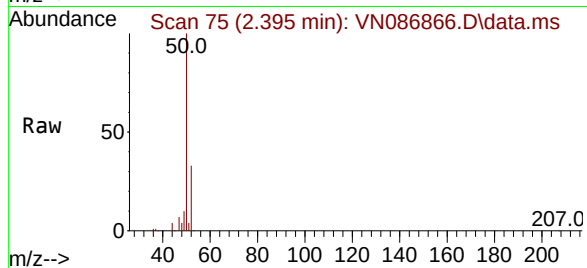
#3
Chloromethane
Concen: 95.833 ug/l
RT: 2.395 min Scan# 75
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 224558
Ion Ratio Lower Upper
50 100
52 33.4 25.7 38.5

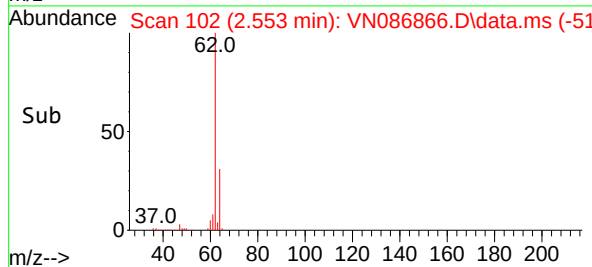
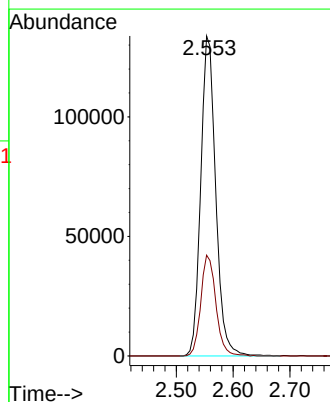
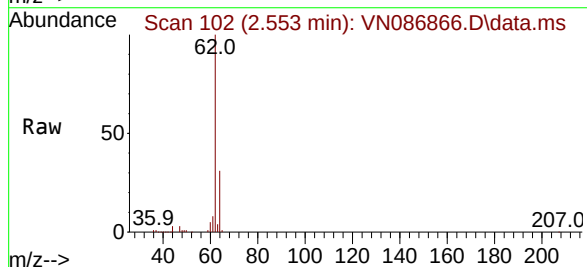
Manual Integrations
APPROVED

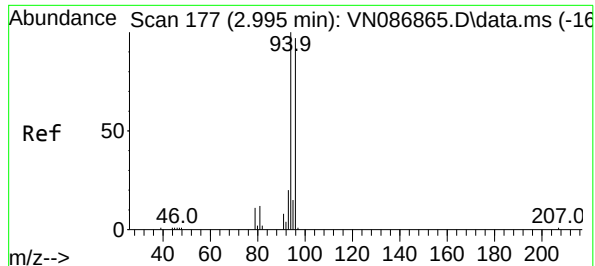
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 101.414 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

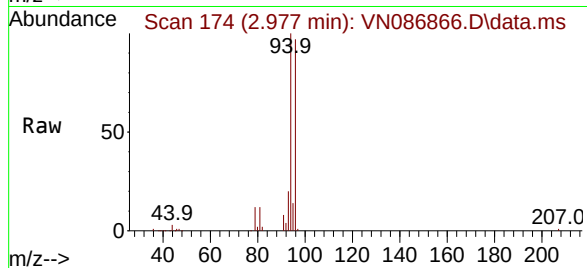
Tgt Ion: 62 Resp: 245135
Ion Ratio Lower Upper
62 100
64 31.5 26.0 39.0





#5
Bromomethane
Concen: 101.996 ug/l
RT: 2.977 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

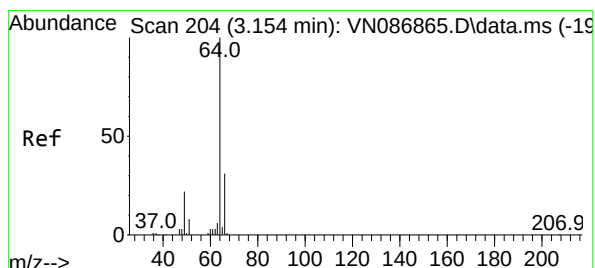
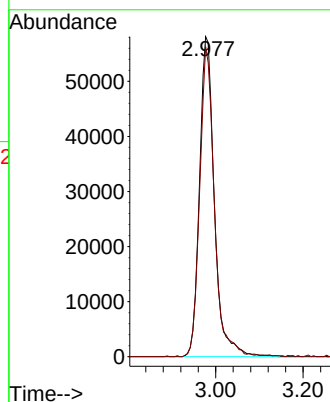
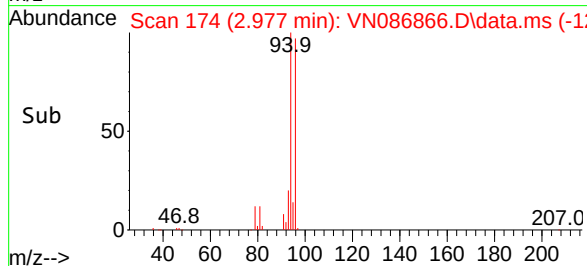
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 94 Resp: 13796
Ion Ratio Lower Upper
94 100
96 96.8 77.9 116.9

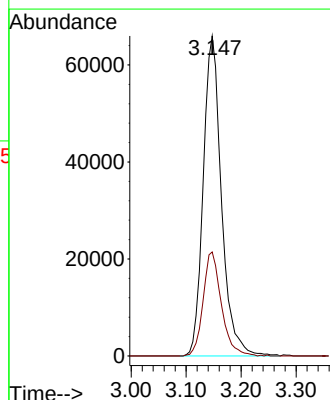
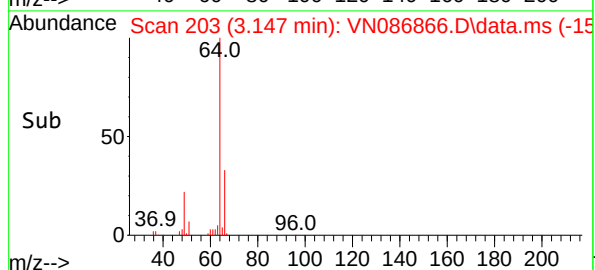
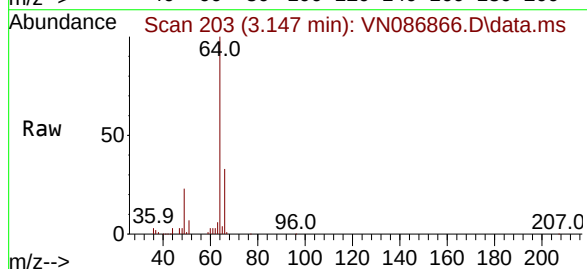
Manual Integrations
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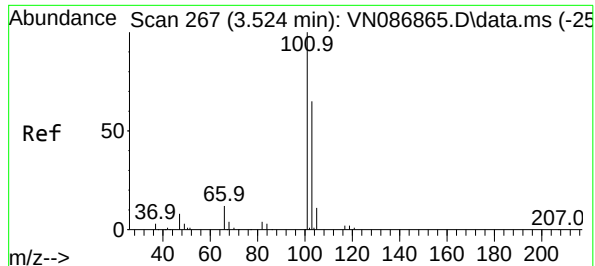
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#6
Chloroethane
Concen: 97.447 ug/l
RT: 3.147 min Scan# 203
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 64 Resp: 152150
Ion Ratio Lower Upper
64 100
66 32.5 24.6 36.8





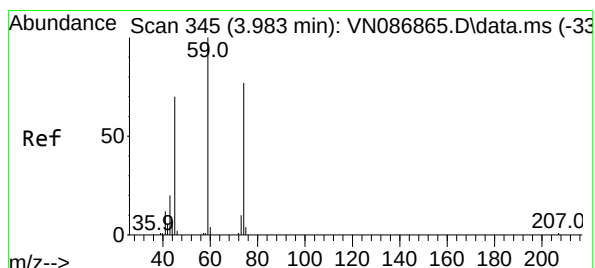
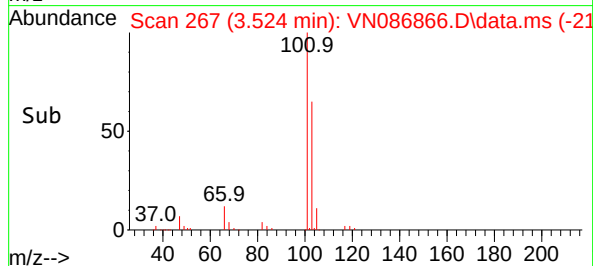
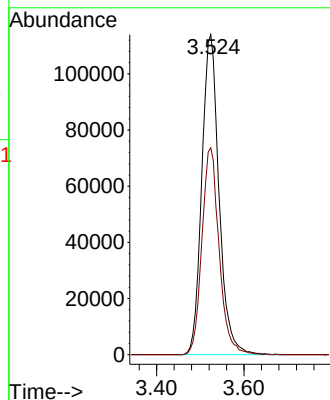
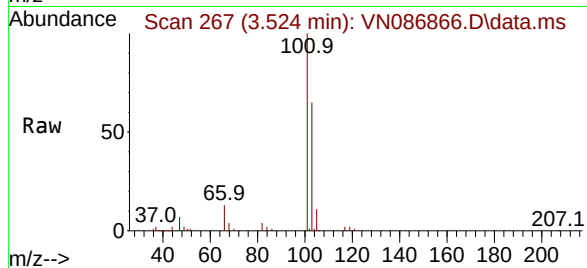
#7
Trichlorofluoromethane
Concen: 98.917 ug/l
RT: 3.524 min Scan# 267
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 312394
Ion Ratio Lower Upper
101 100
103 64.7 52.2 78.2

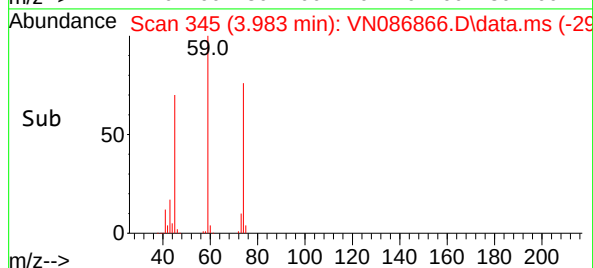
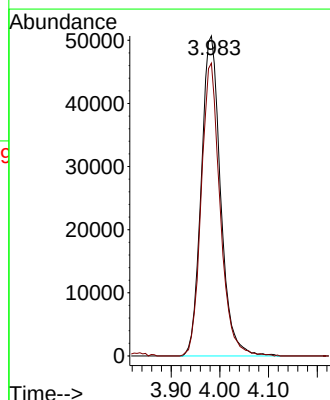
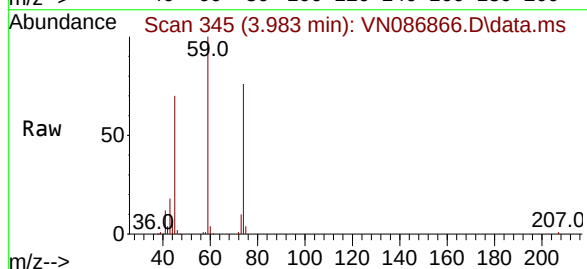
Manual Integrations
APPROVED

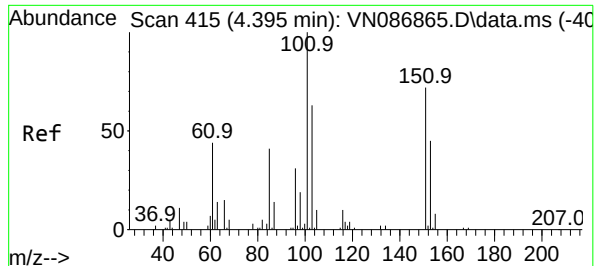
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#8
Diethyl Ether
Concen: 101.631 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 74 Resp: 139844
Ion Ratio Lower Upper
74 100
45 89.5 45.5 136.5





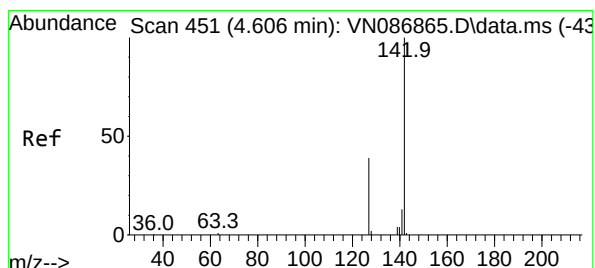
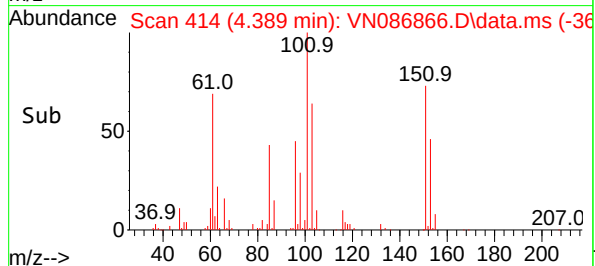
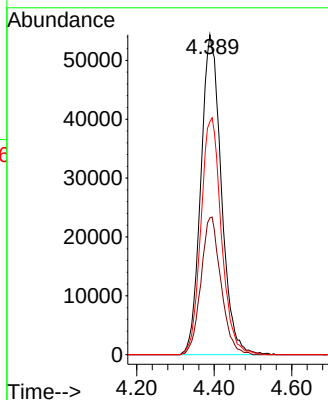
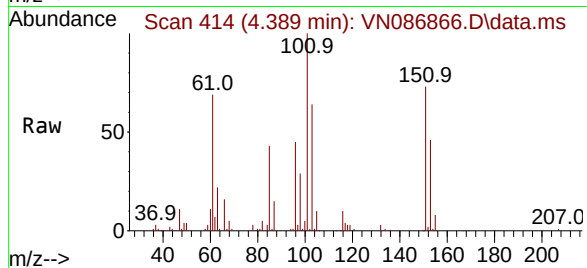
#9
1,1,2-Trichlorotrifluoroethane
Concen: 100.163 ug/l
RT: 4.389 min Scan# 415
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 198739
Ion Ratio Lower Upper
101 100
85 42.2 33.8 50.8
151 74.2 58.7 88.1

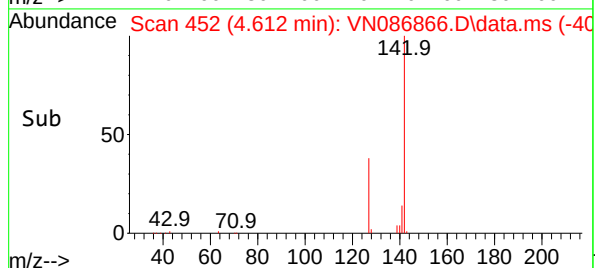
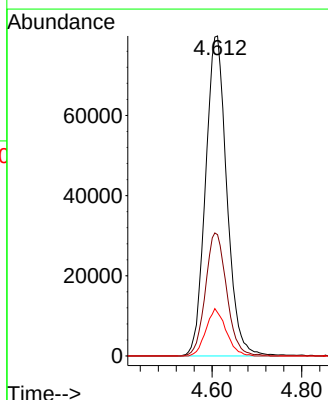
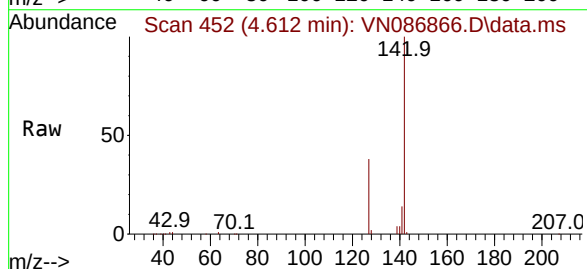
Manual Integrations
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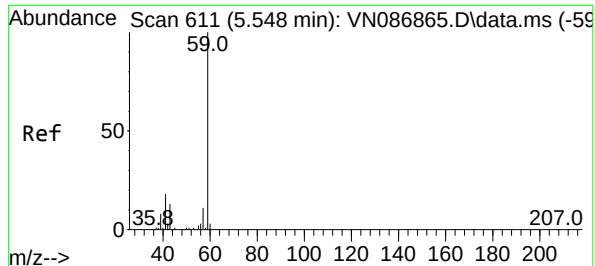
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#10
Methyl Iodide
Concen: 102.162 ug/l
RT: 4.612 min Scan# 452
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:142 Resp: 262771
Ion Ratio Lower Upper
142 100
127 37.9 30.9 46.3
141 13.6 10.4 15.6





#11

Tert butyl alcohol

Concen: 496.062 ug/l

RT: 5.547 min Scan# 611

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 59 Resp: 32798

Ion Ratio Lower Upper

59 100

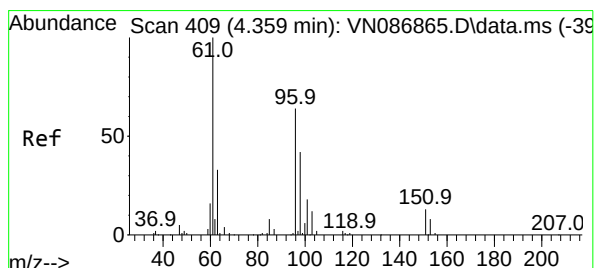
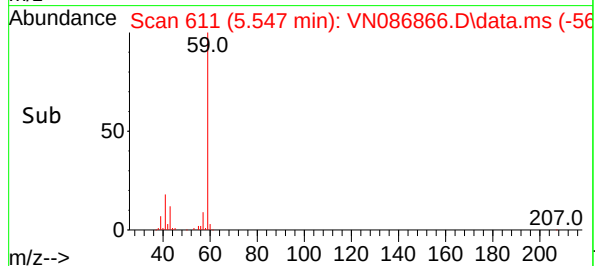
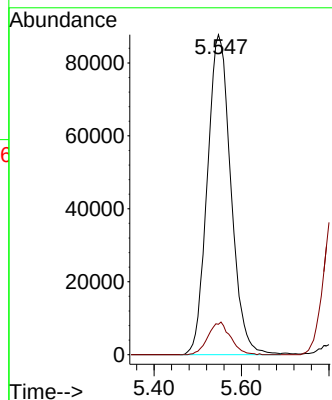
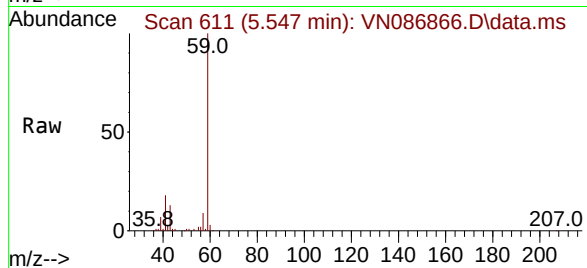
57 9.7 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#12

1,1-Dichloroethene

Concen: 98.838 ug/l

RT: 4.359 min Scan# 409

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

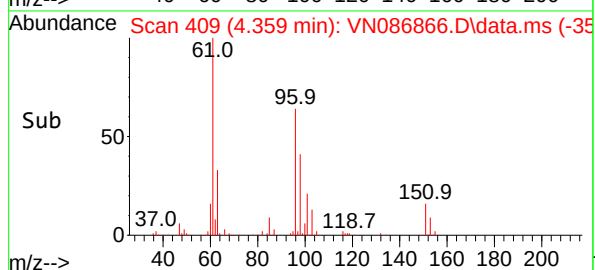
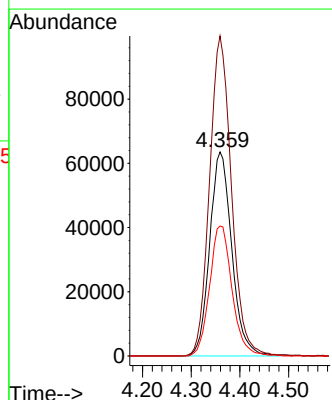
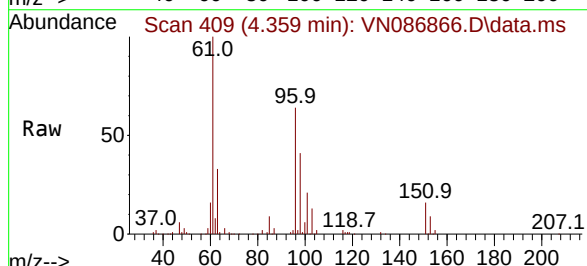
Tgt Ion: 96 Resp: 200212

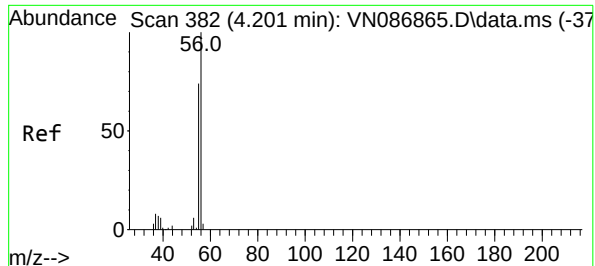
Ion Ratio Lower Upper

96 100

61 156.9 125.8 188.6

98 63.7 52.5 78.7





#13

Acrolein

Concen: 449.961 ug/l

RT: 4.200 min Scan# 382

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 9417

Ion Ratio Lower Upper

56 100

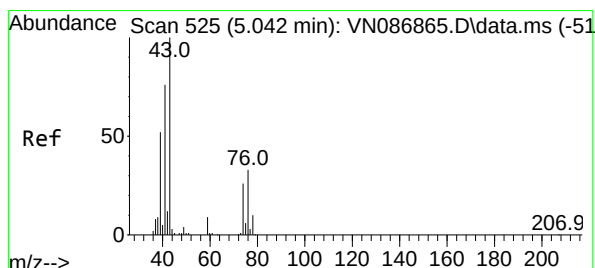
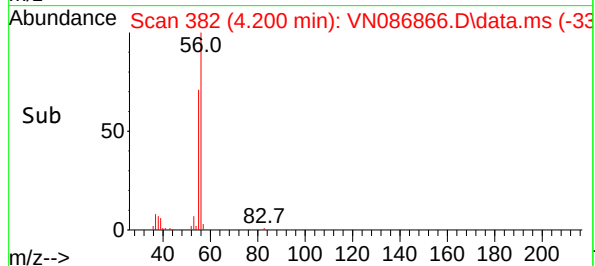
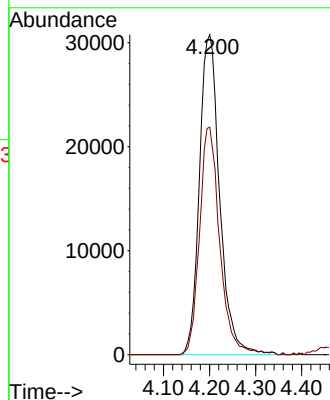
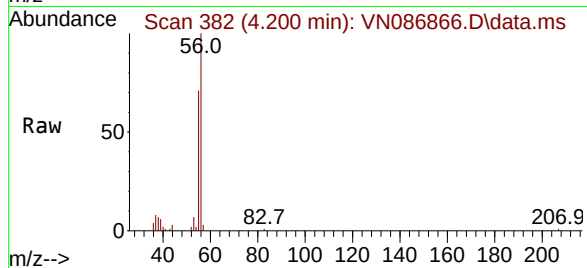
55 70.9 55.6 83.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 98.055 ug/l

RT: 5.047 min Scan# 526

Delta R.T. 0.006 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

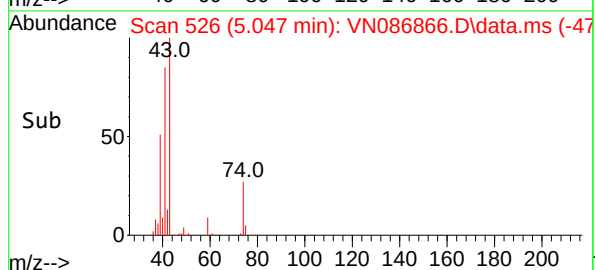
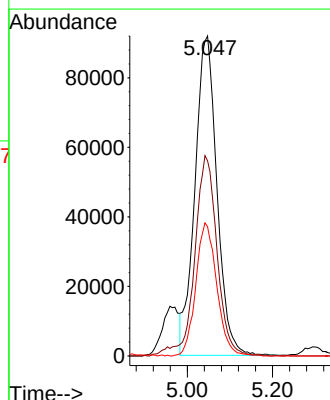
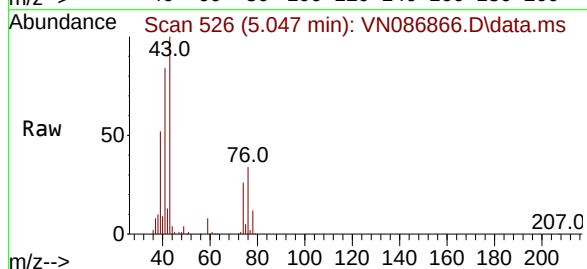
Tgt Ion: 41 Resp: 329412

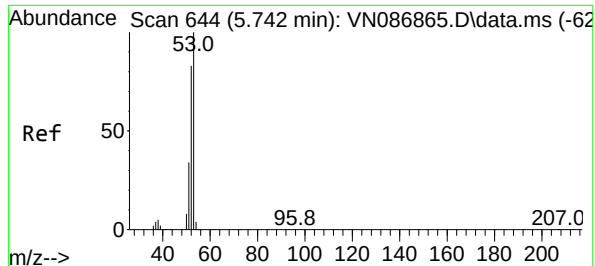
Ion Ratio Lower Upper

41 100

39 63.7 51.3 76.9

76 39.7 31.4 47.0





#15

Acrylonitrile

Concen: 498.552 ug/l

RT: 5.735 min Scan# 644

Delta R.T. -0.006 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 53 Resp: 770470

Ion Ratio Lower Upper

53 100

52 82.2 65.0 97.6

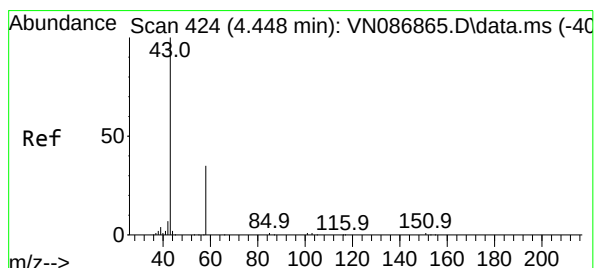
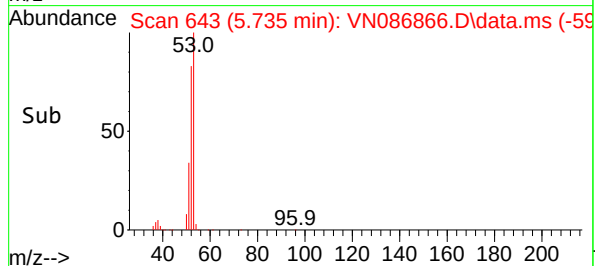
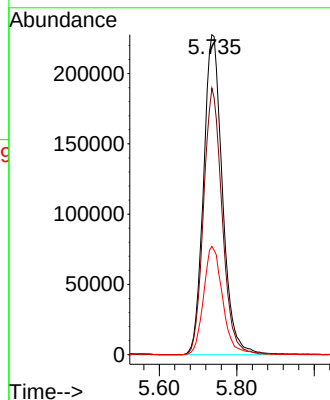
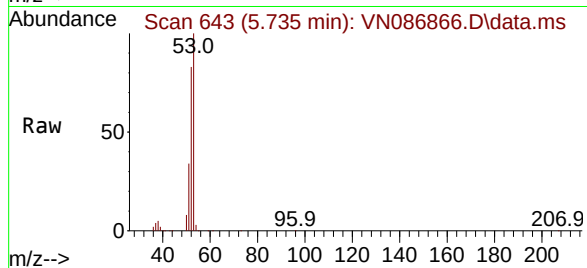
51 34.4 27.2 40.8

Manual Integrations

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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#16

Acetone

Concen: 470.648 ug/l

RT: 4.447 min Scan# 424

Delta R.T. -0.000 min

Lab File: VN086866.D

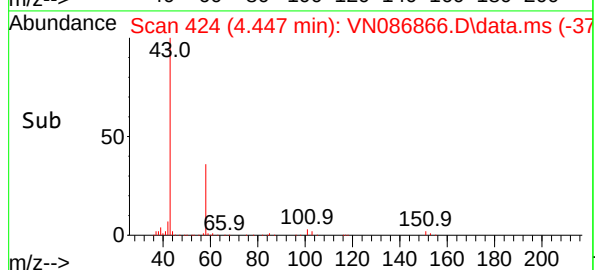
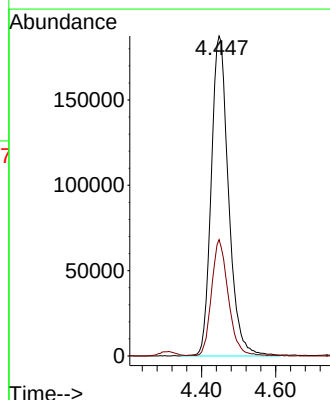
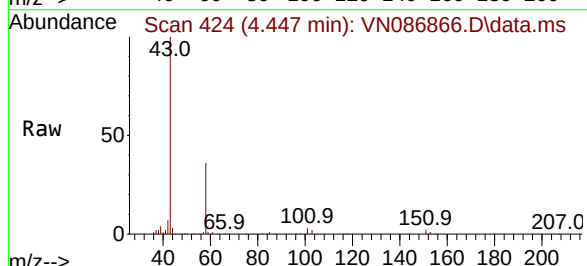
Acq: 06 Jun 2025 14:26

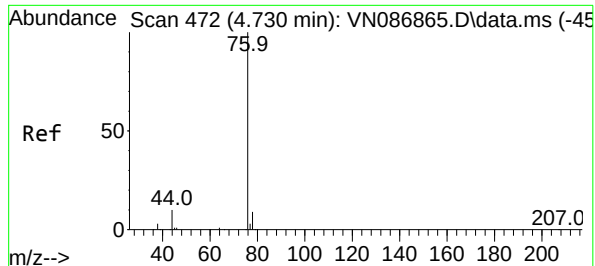
Tgt Ion: 43 Resp: 608178

Ion Ratio Lower Upper

43 100

58 36.2 28.0 42.0





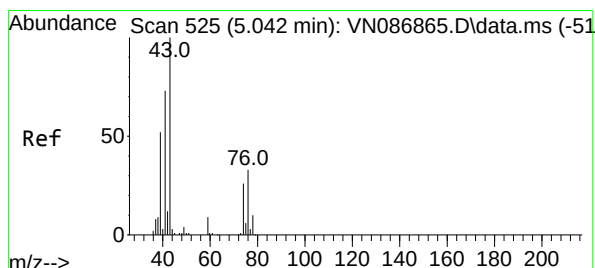
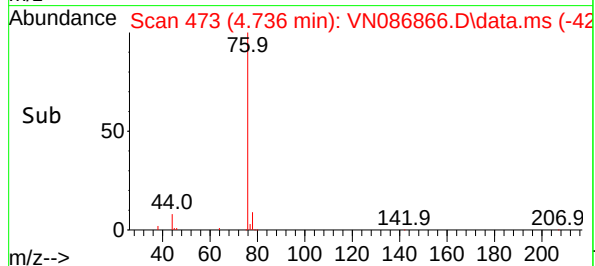
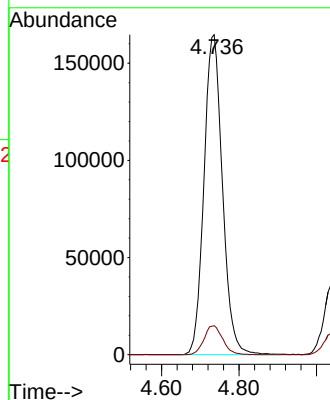
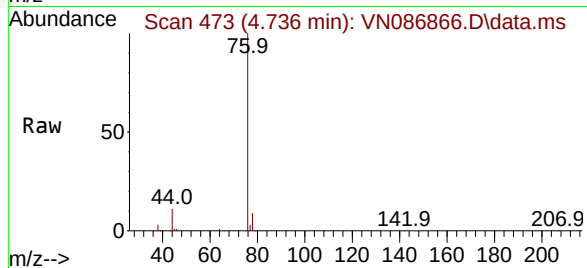
#17
Carbon Disulfide
Concen: 97.179 ug/l
RT: 4.736 min Scan# 473
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 54451
Ion Ratio Lower Upper
76 100
78 9.1 7.3 10.9

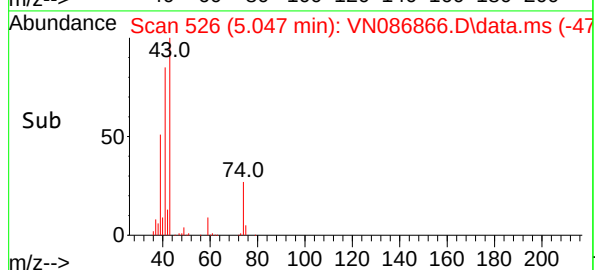
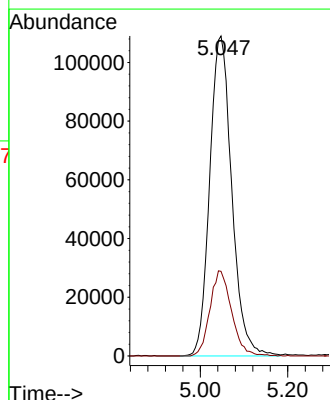
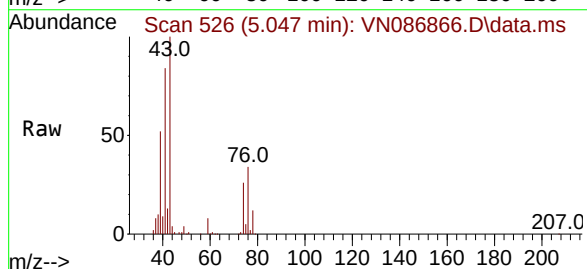
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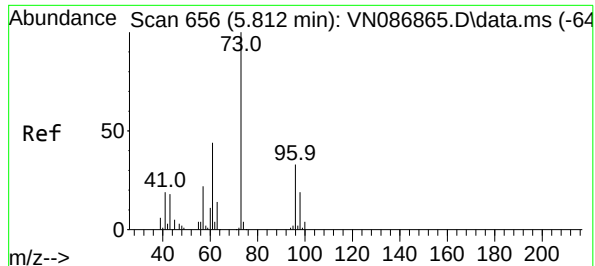
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#18
Methyl Acetate
Concen: 101.390 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 43 Resp: 381808
Ion Ratio Lower Upper
43 100
74 26.1 20.7 31.1





#19

Methyl tert-butyl Ether

Concen: 100.306 ug/l

RT: 5.818 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 73 Resp: 735694

Ion Ratio Lower Upper

73 100

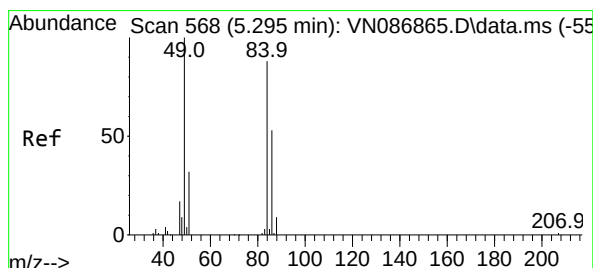
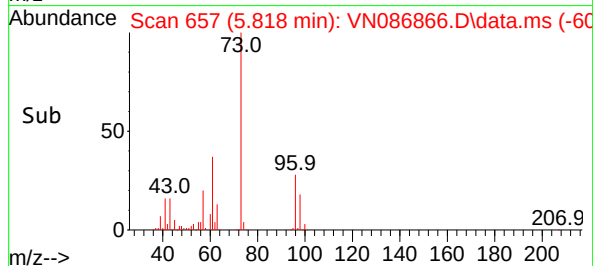
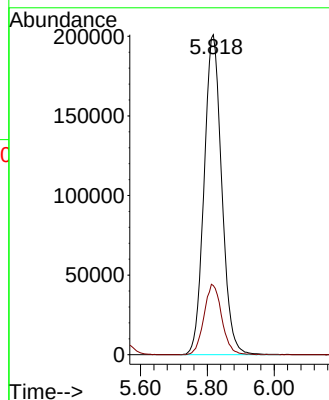
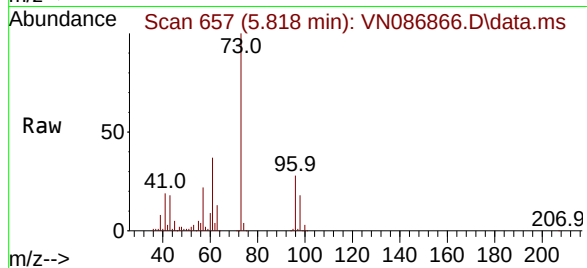
57 21.6 17.4 26.2

Manual Integrations

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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#20

Methylene Chloride

Concen: 94.575 ug/l

RT: 5.294 min Scan# 568

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Tgt Ion: 84 Resp: 228800

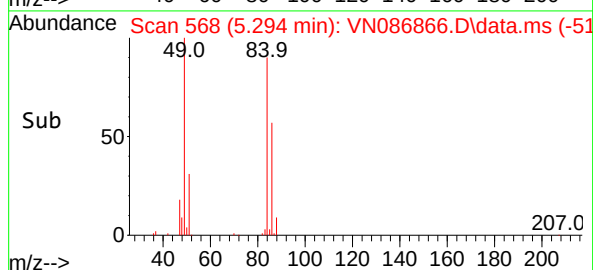
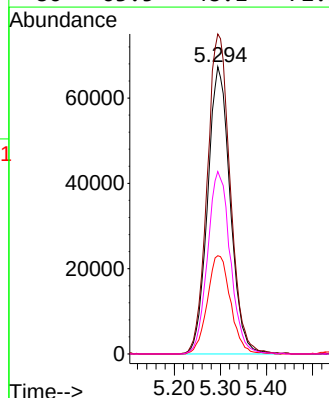
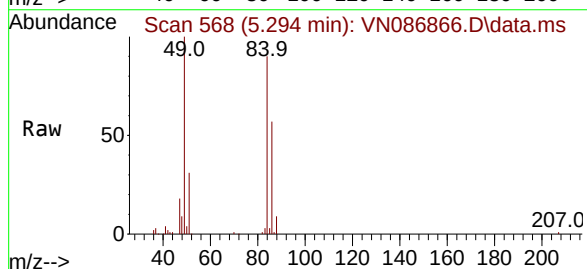
Ion Ratio Lower Upper

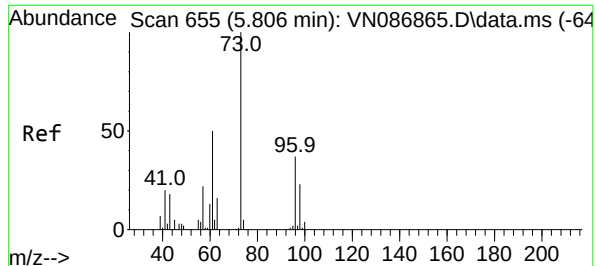
84 100

49 111.4 90.5 135.7

51 34.2 28.5 42.7

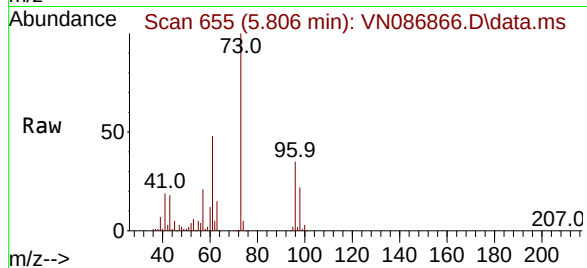
86 63.5 48.1 72.1





#21
trans-1,2-Dichloroethene
Concen: 95.476 ug/l
RT: 5.806 min Scan# 611
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

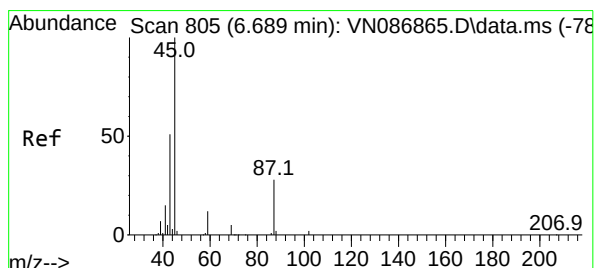
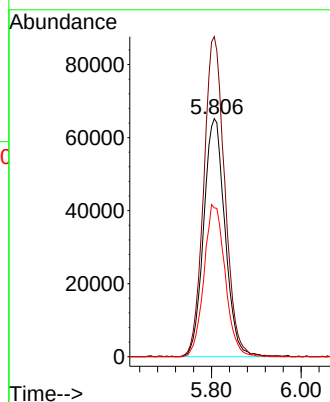
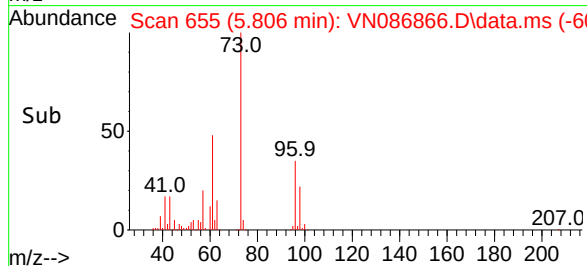
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 96 Resp: 21517
Ion Ratio Lower Upper
96 100
61 134.4 109.2 163.8
98 62.5 49.8 74.8

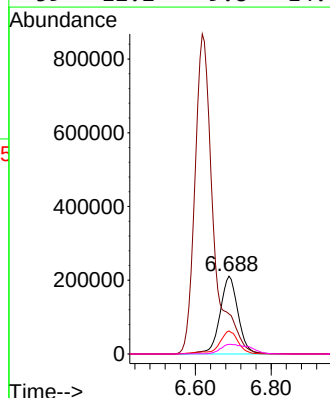
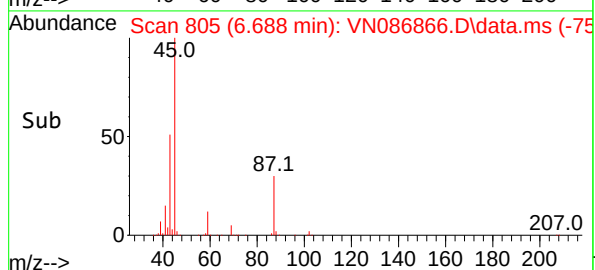
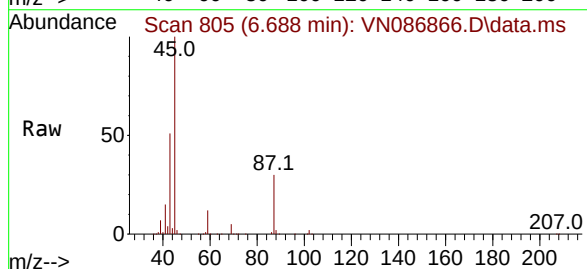
Manual Integrations
APPROVED

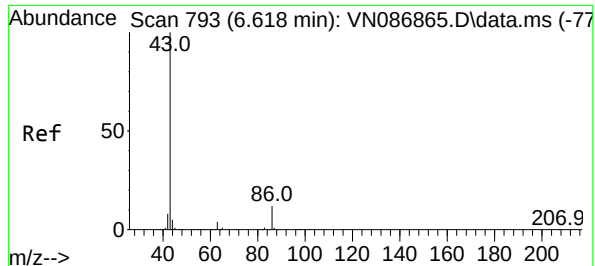
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#22
Diisopropyl ether
Concen: 98.409 ug/l
RT: 6.688 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 45 Resp: 696881
Ion Ratio Lower Upper
45 100
43 51.1 41.9 62.9
87 29.6 22.4 33.6
59 12.2 9.8 14.6





#23

Vinyl Acetate

Concen: 487.936 ug/l

RT: 6.618 min Scan# 793

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 2919350

Ion Ratio Lower Upper

43 100

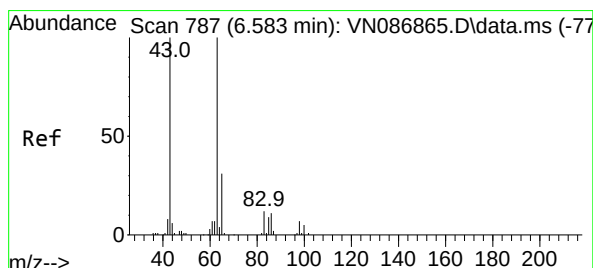
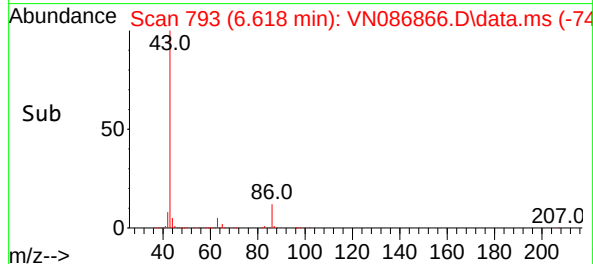
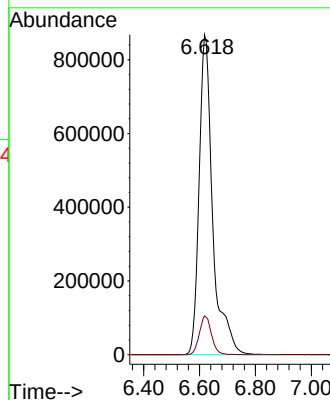
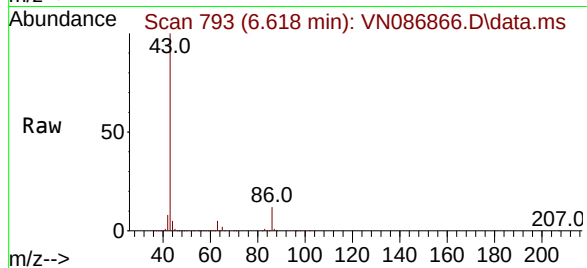
86 12.1 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#24

1,1-Dichloroethane

Concen: 99.186 ug/l

RT: 6.588 min Scan# 788

Delta R.T. 0.006 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

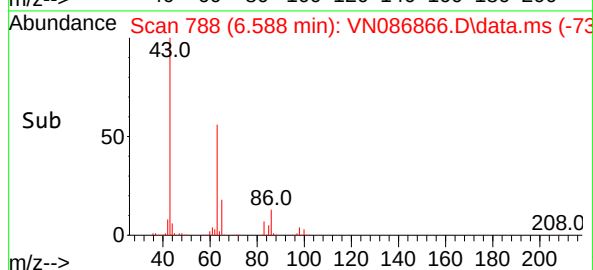
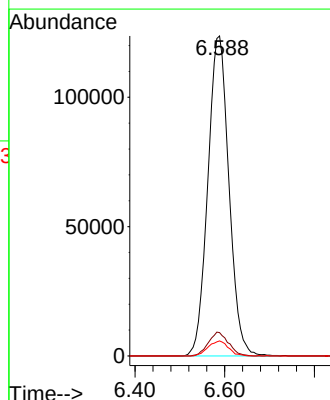
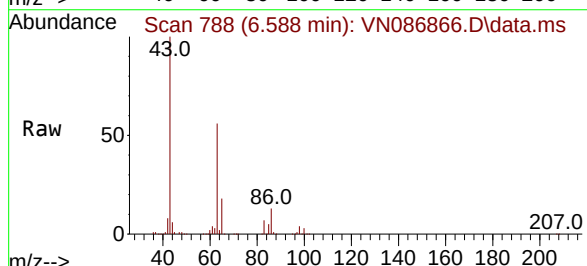
Tgt Ion: 63 Resp: 404207

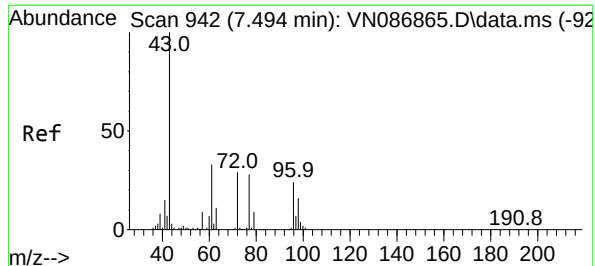
Ion Ratio Lower Upper

63 100

98 7.3 3.6 10.8

100 4.7 2.6 7.8





#25

2-Butanone

Concen: 496.743 ug/l

RT: 7.494 min Scan# 942

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 104338

Ion Ratio Lower Upper

43 100

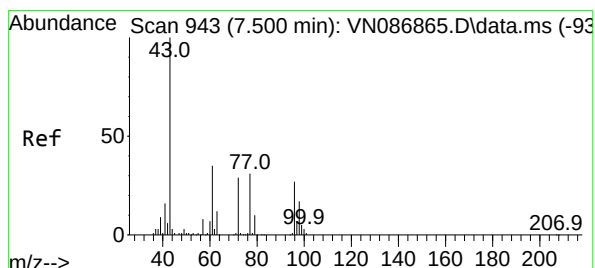
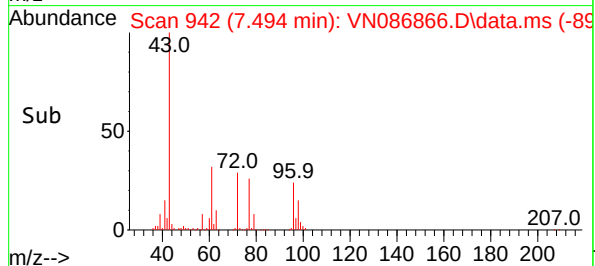
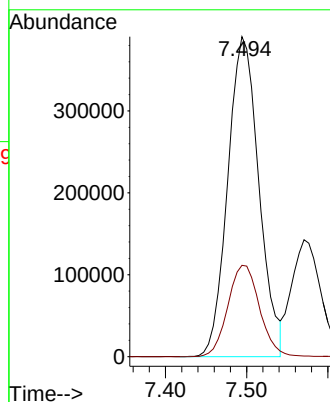
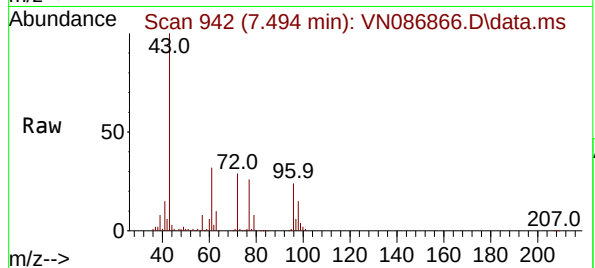
72 28.5 23.0 34.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 104.729 ug/l

RT: 7.500 min Scan# 943

Delta R.T. -0.000 min

Lab File: VN086866.D

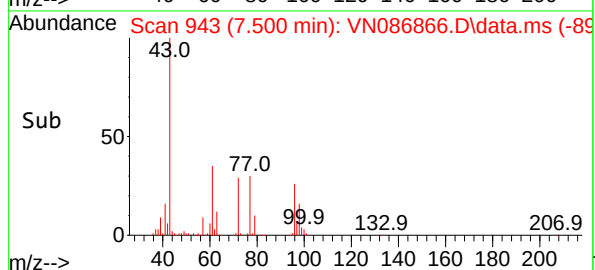
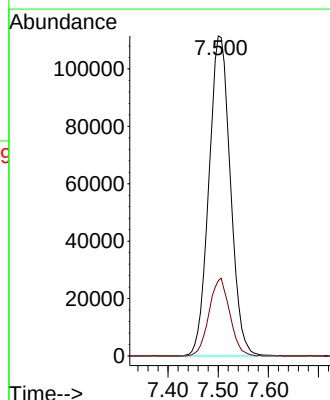
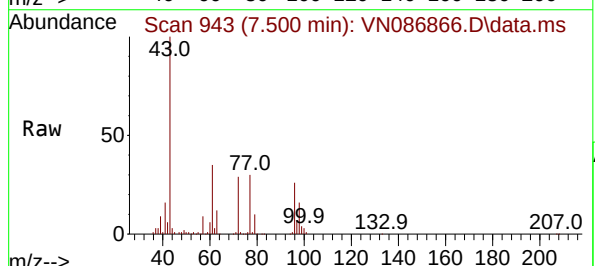
Acq: 06 Jun 2025 14:26

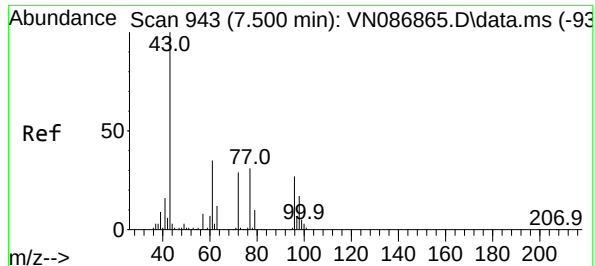
Tgt Ion: 77 Resp: 331995

Ion Ratio Lower Upper

77 100

97 23.4 11.6 34.7





#27

cis-1,2-Dichloroethene

Concen: 98.410 ug/l

RT: 7.500 min Scan# 943

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 96 Resp: 26524

Ion Ratio Lower Upper

96 100

61 137.9 0.0 278.0

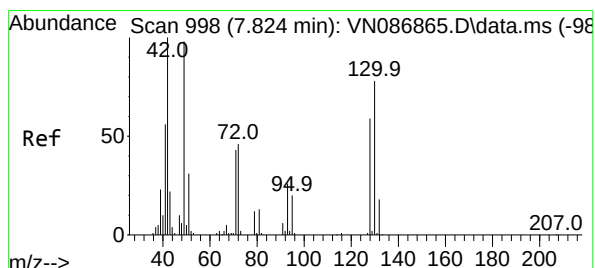
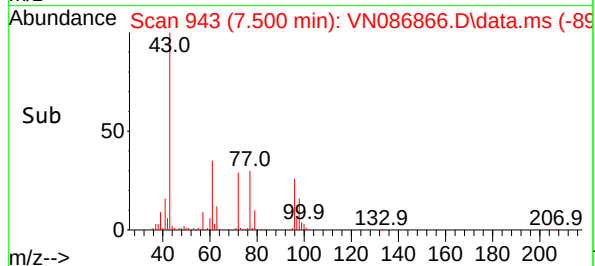
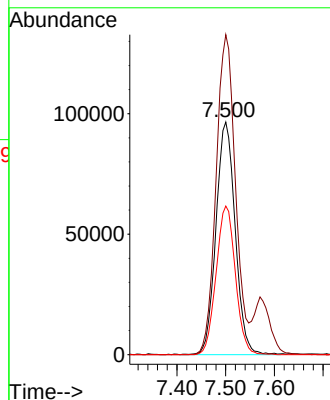
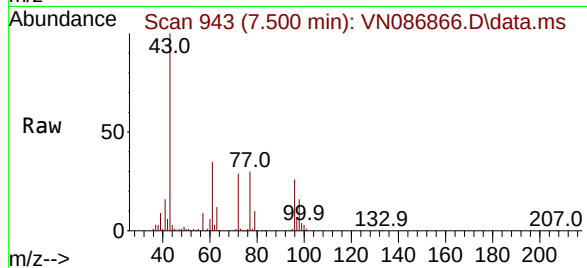
98 64.0 0.0 128.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 93.851 ug/l

RT: 7.824 min Scan# 998

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

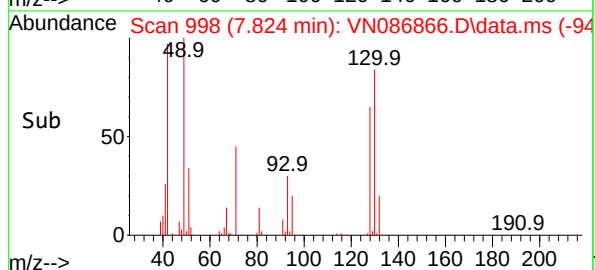
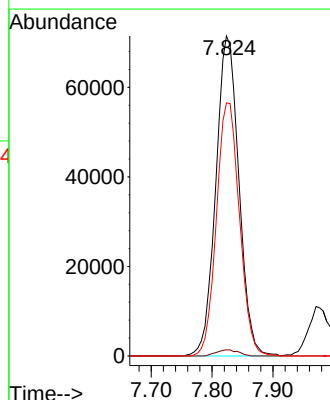
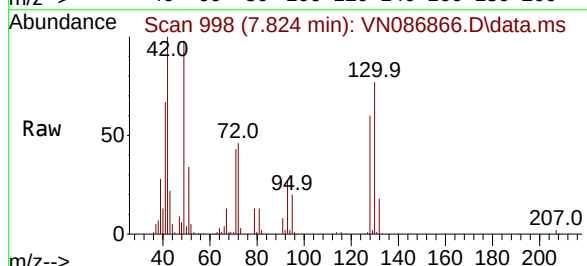
Tgt Ion: 49 Resp: 188050

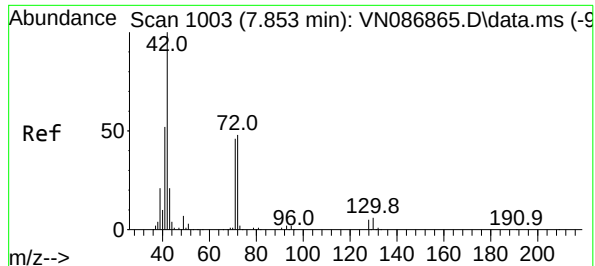
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.8

130 78.9 62.2 93.2





#29

Tetrahydrofuran

Concen: 495.240 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. -0.006 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 42 Resp: 677630

Ion Ratio Lower Upper

42 100

72 47.9 37.8 56.6

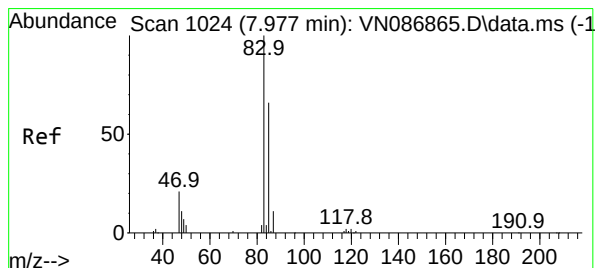
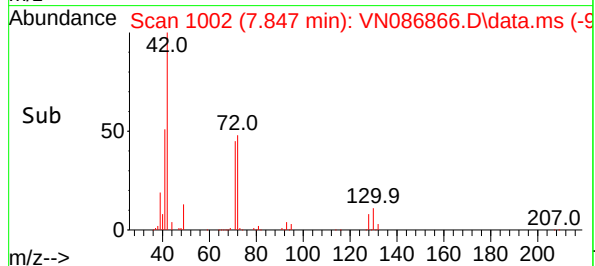
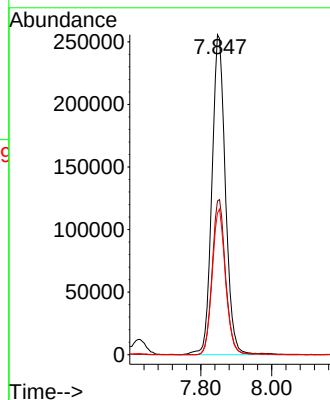
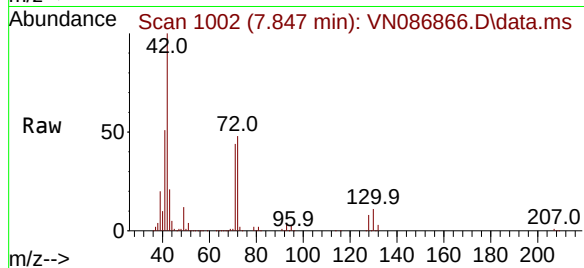
71 44.8 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 97.040 ug/l

RT: 7.977 min Scan# 1024

Delta R.T. -0.000 min

Lab File: VN086866.D

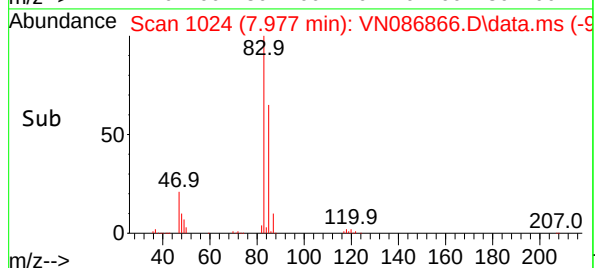
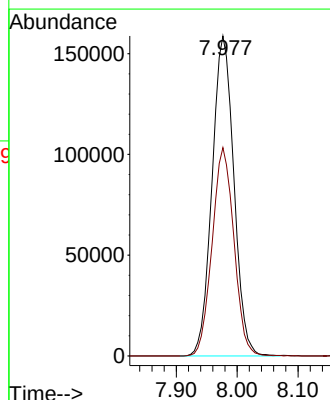
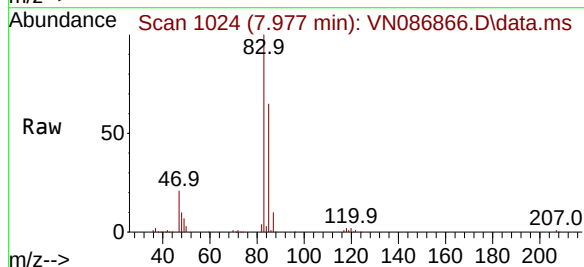
Acq: 06 Jun 2025 14:26

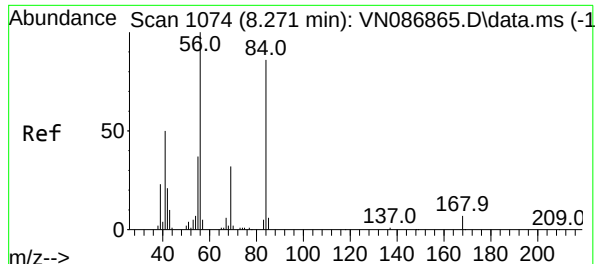
Tgt Ion: 83 Resp: 394927

Ion Ratio Lower Upper

83 100

85 65.1 52.9 79.3





#31

Cyclohexane

Concen: 94.869 ug/l

RT: 8.265 min Scan# 1073

Delta R.T. -0.006 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 37493

Ion Ratio Lower Upper

56 100

69 31.3 25.4 38.0

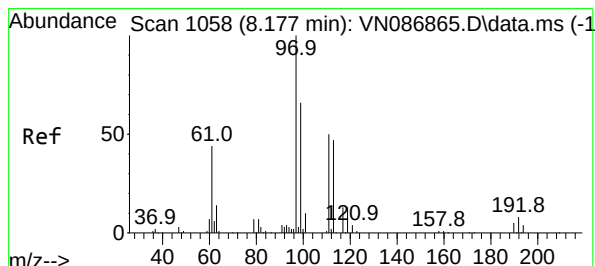
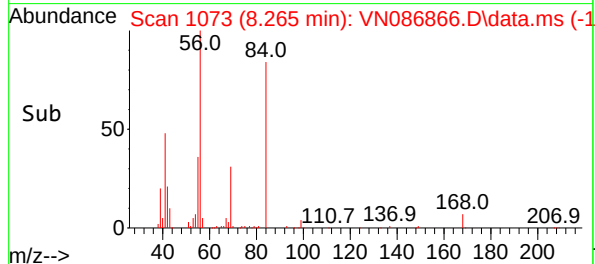
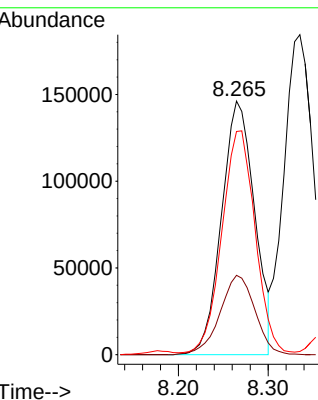
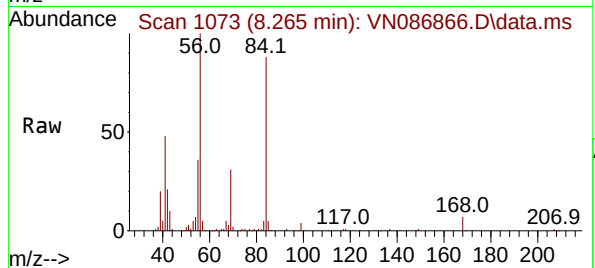
84 86.8 68.8 103.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#32

1,1,1-Trichloroethane

Concen: 97.306 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

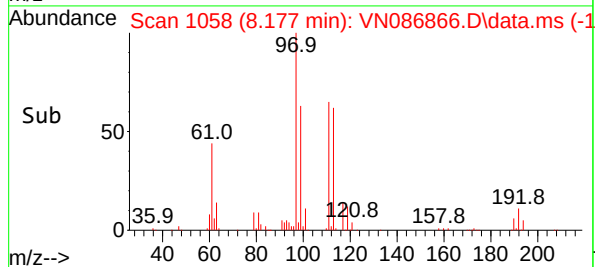
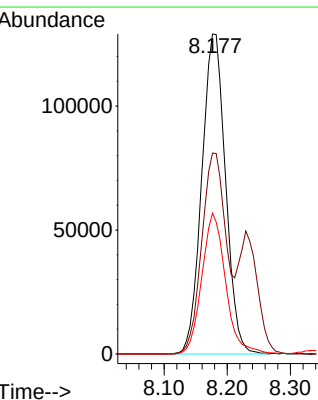
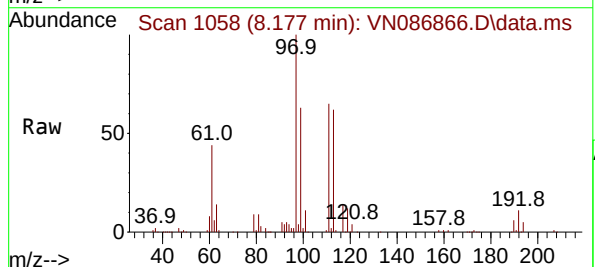
Tgt Ion: 97 Resp: 336819

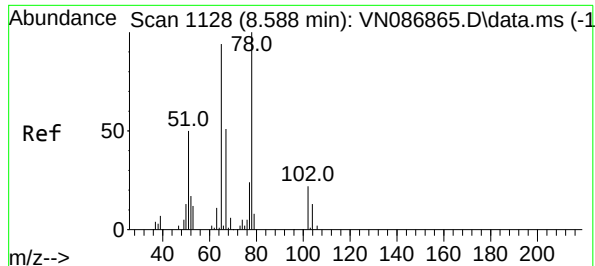
Ion Ratio Lower Upper

97 100

99 65.7 52.0 78.0

61 44.2 35.9 53.9





#33

1,2-Dichloroethane-d4

Concen: 98.065 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 65 Resp: 23895

Ion Ratio Lower Upper

65 100

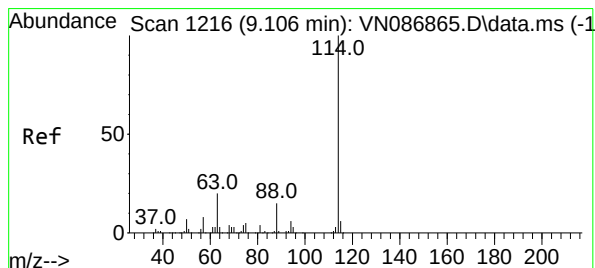
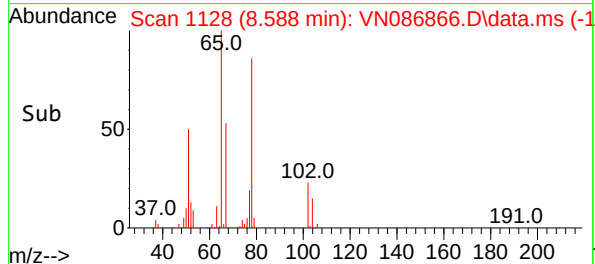
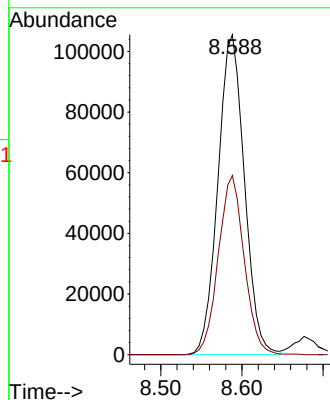
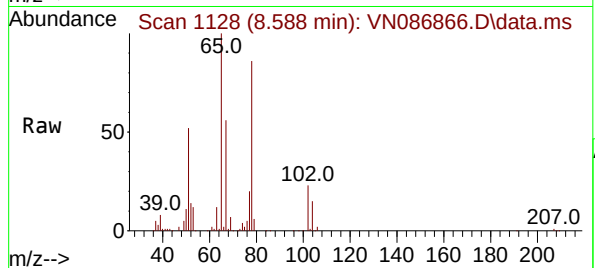
67 54.8 0.0 105.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

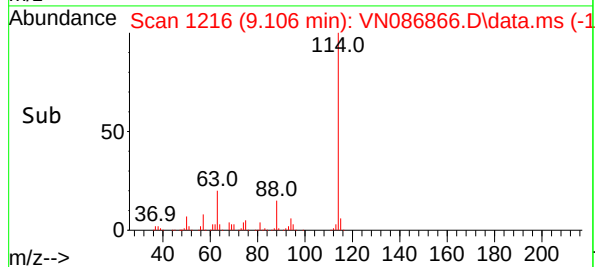
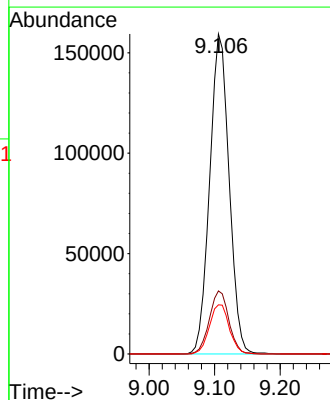
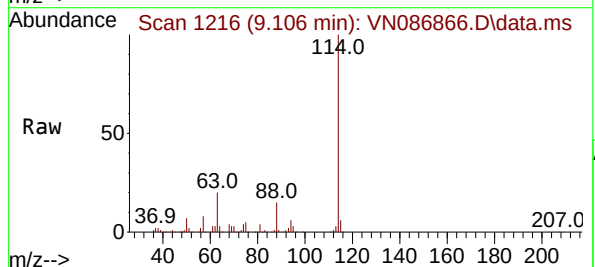
Tgt Ion:114 Resp: 327782

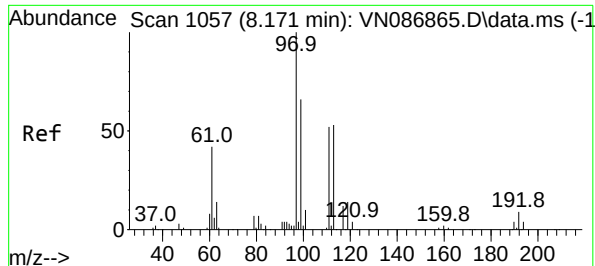
Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.6

88 15.4 0.0 30.2





#35

Dibromofluoromethane

Concen: 100.495 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:113 Resp: 19521

Ion Ratio Lower Upper

113 100

111 102.9 84.2 126.2

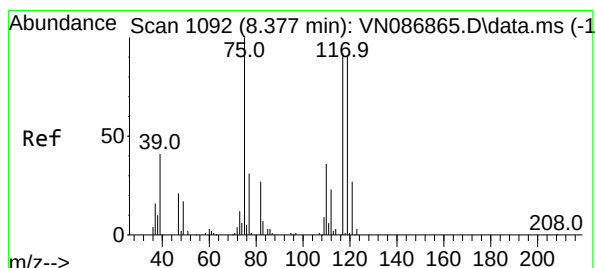
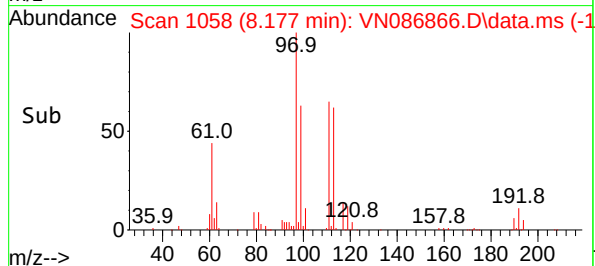
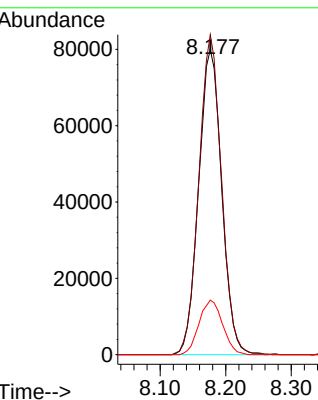
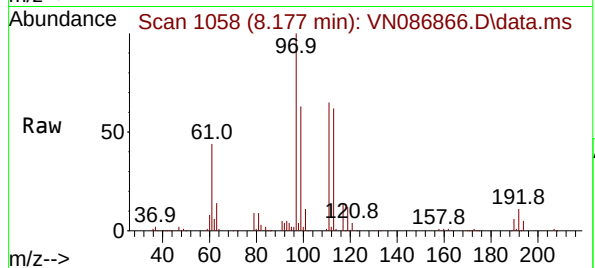
192 18.2 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#36

1,1-Dichloropropene

Concen: 100.156 ug/l

RT: 8.382 min Scan# 1093

Delta R.T. 0.006 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

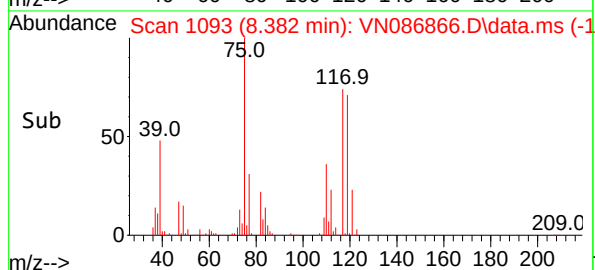
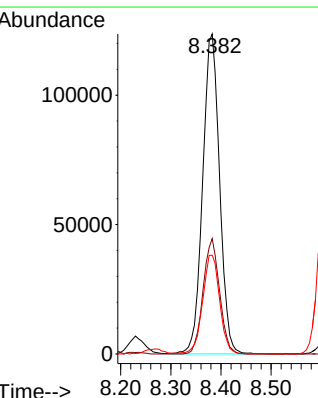
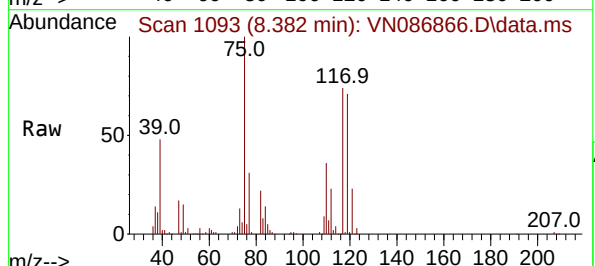
Tgt Ion: 75 Resp: 289907

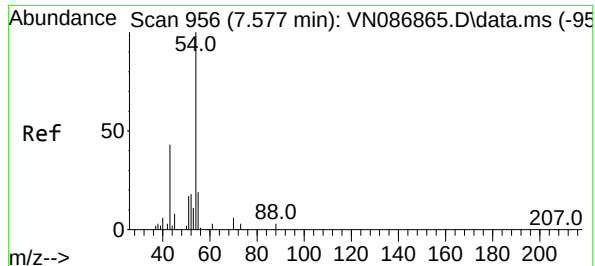
Ion Ratio Lower Upper

75 100

110 34.9 17.6 52.9

77 31.1 25.3 37.9





#37

Ethyl Acetate

Concen: 100.591 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 370652

Ion Ratio Lower Upper

43 100

61 15.3 12.1 18.1

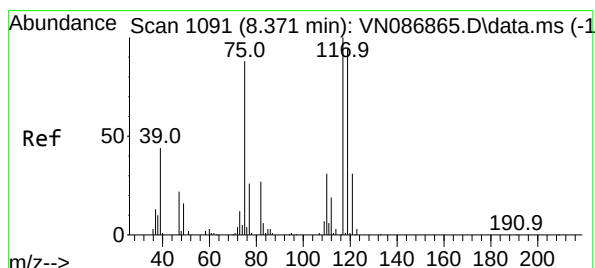
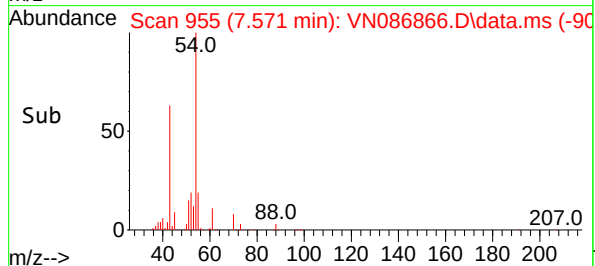
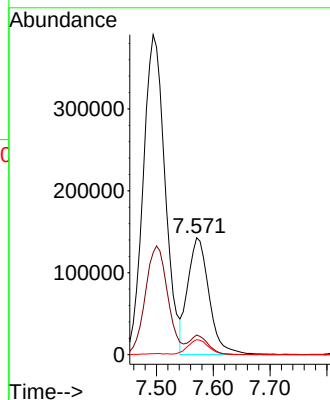
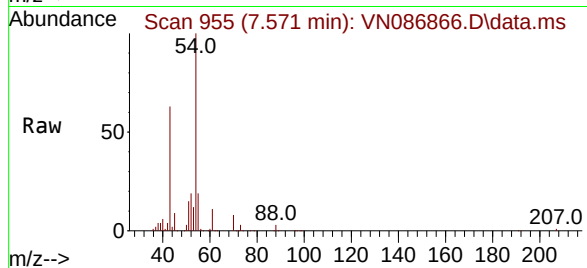
70 12.6 9.8 14.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#38

Carbon Tetrachloride

Concen: 100.404 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

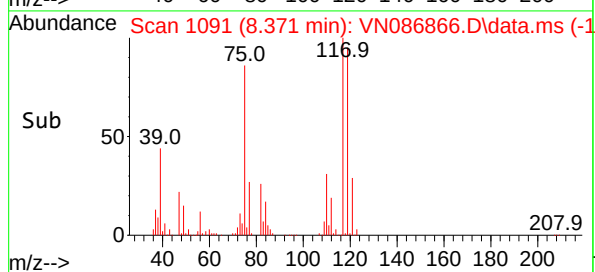
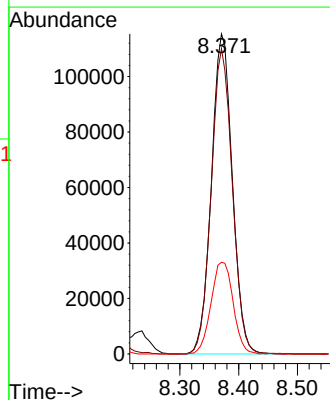
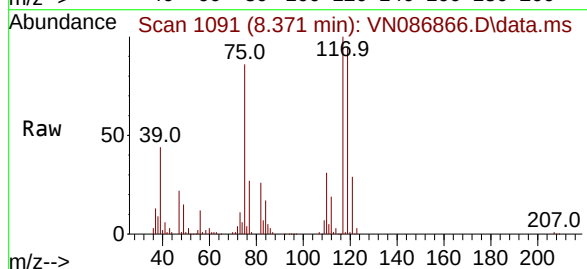
Tgt Ion:117 Resp: 285325

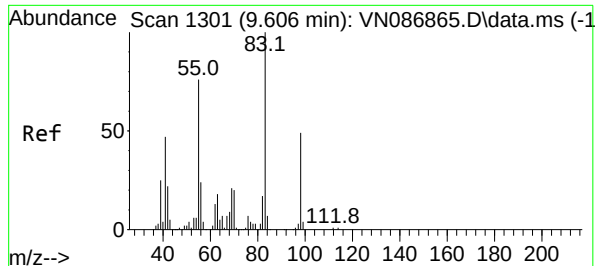
Ion Ratio Lower Upper

117 100

119 95.4 75.0 112.6

121 28.6 24.9 37.3





#39

Methylcyclohexane

Concen: 99.758 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

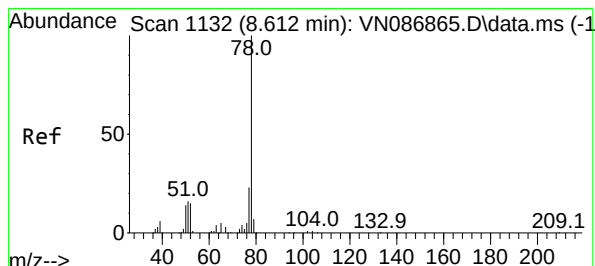
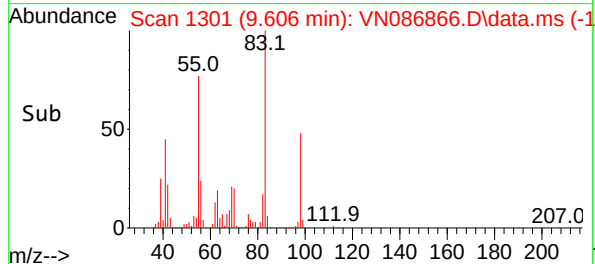
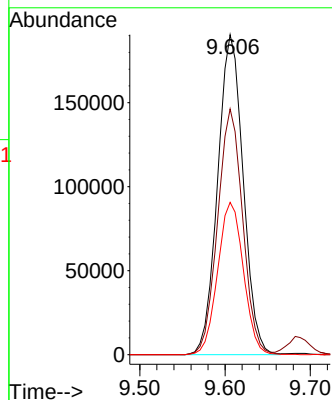
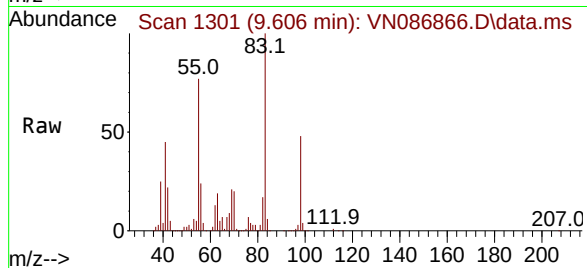
VSTDICC100

Tgt Ion:	83	Resp:	39560
Ion	Ratio	Lower	Upper
83	100		
55	76.8	61.0	91.6
98	47.6	38.9	58.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#40

Benzene

Concen: 97.946 ug/l

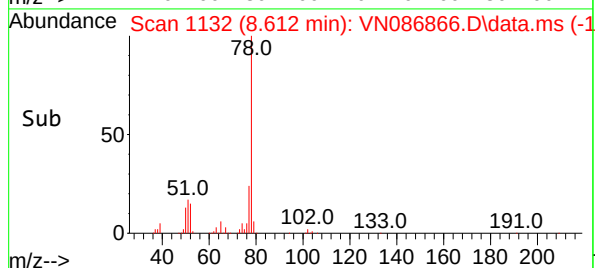
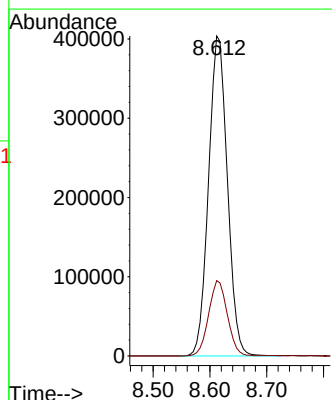
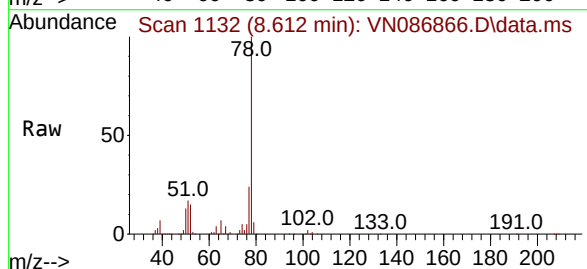
RT: 8.612 min Scan# 1132

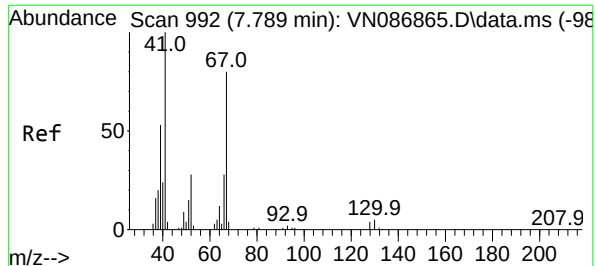
Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

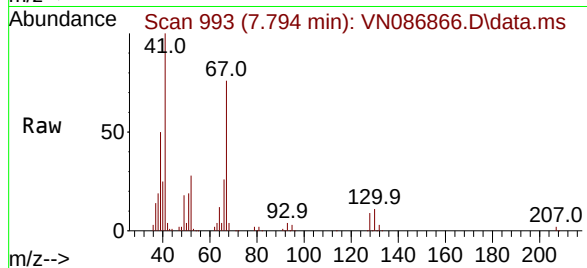
Tgt Ion:	78	Resp:	927083
Ion	Ratio	Lower	Upper
78	100		
77	23.6	18.7	28.1





#41
Methacrylonitrile
Concen: 94.688 ug/l
RT: 7.794 min Scan# 992
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

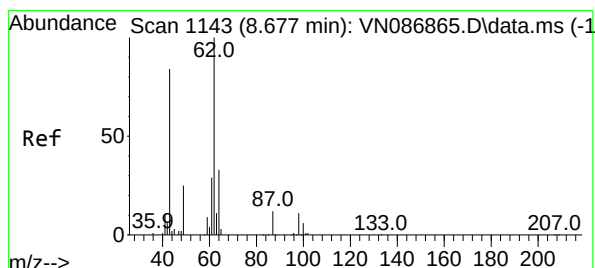
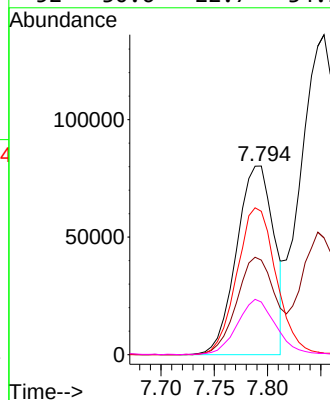
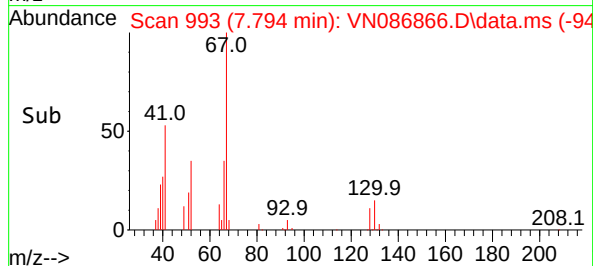
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 41 Resp: 195940
Ion Ratio Lower Upper
41 100
39 54.3 41.2 61.8
67 82.5 61.4 92.2
52 30.6 22.7 34.1

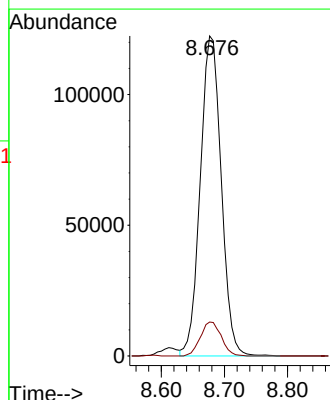
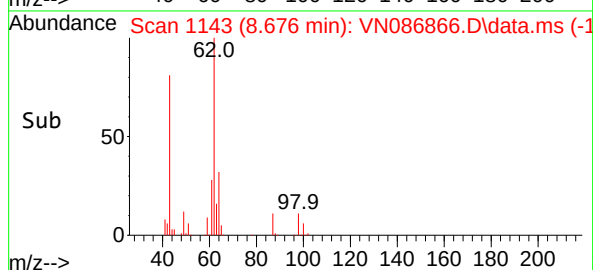
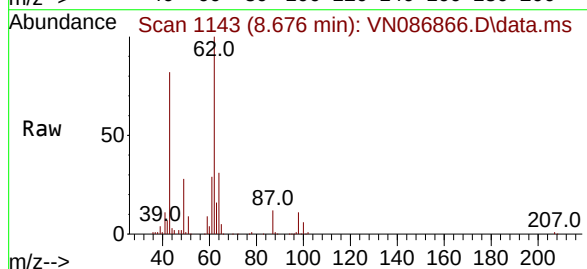
Manual Integrations
APPROVED

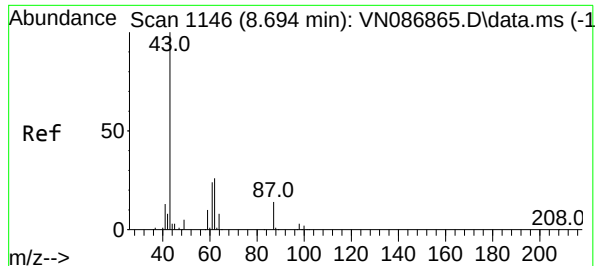
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#42
1,2-Dichloroethane
Concen: 98.232 ug/l
RT: 8.676 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 62 Resp: 282015
Ion Ratio Lower Upper
62 100
98 10.6 0.0 21.2





#43

Isopropyl Acetate

Concen: 97.981 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VN086866.D

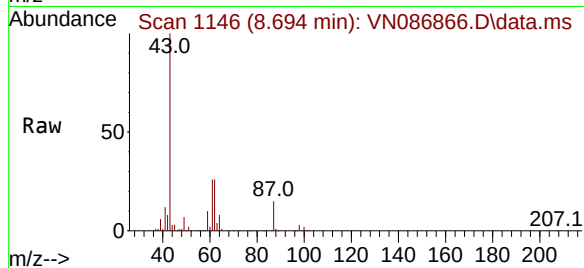
Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

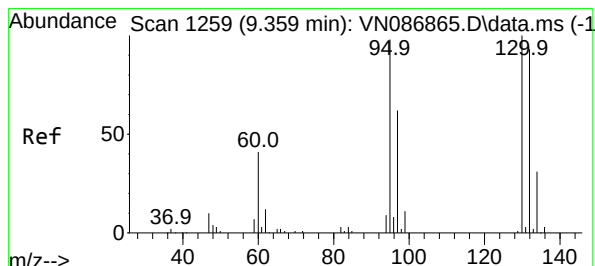
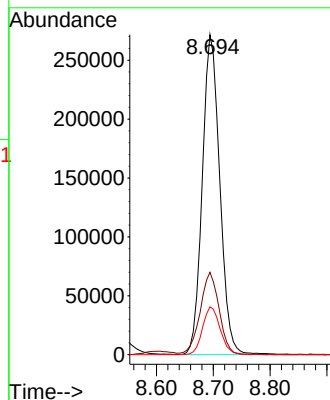
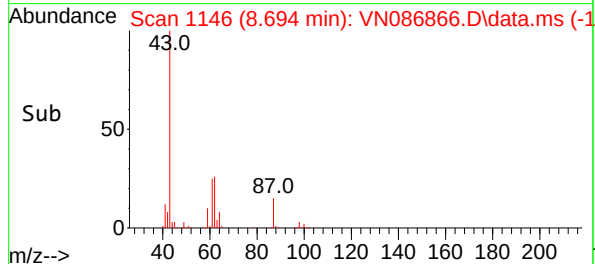


Tgt Ion: 43	Resp: 57946
Ion Ratio	Lower Upper
43	100
61	28.1 22.1 33.1
87	15.0 11.8 17.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#44

Trichloroethene

Concen: 99.280 ug/l

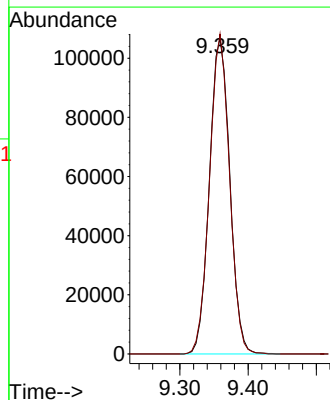
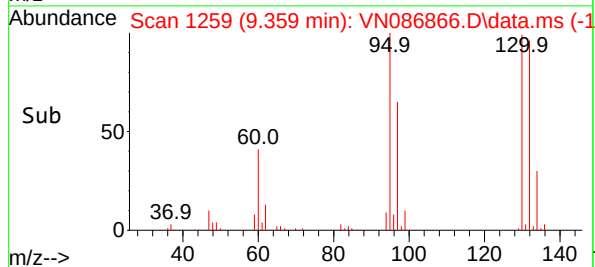
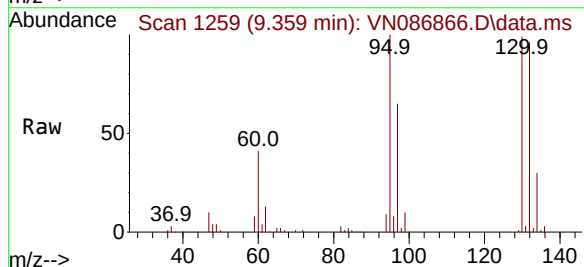
RT: 9.359 min Scan# 1259

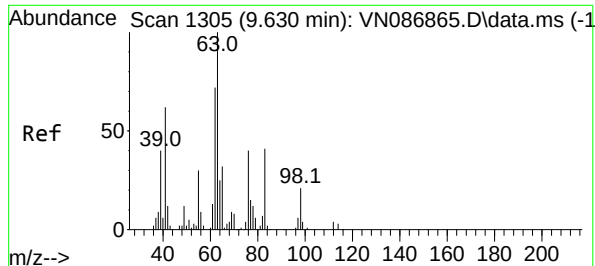
Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Tgt Ion:130	Resp: 222822
Ion Ratio	Lower Upper
130	100
95	101.4 0.0 196.2





#45

1,2-Dichloropropane

Concen: 100.077 ug/l

RT: 9.629 min Scan# 1305

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 230454

Ion Ratio Lower Upper

63 100

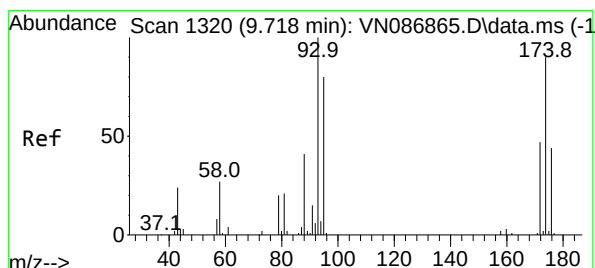
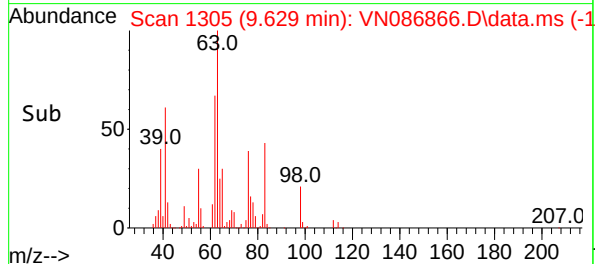
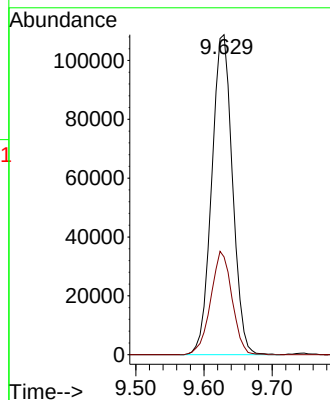
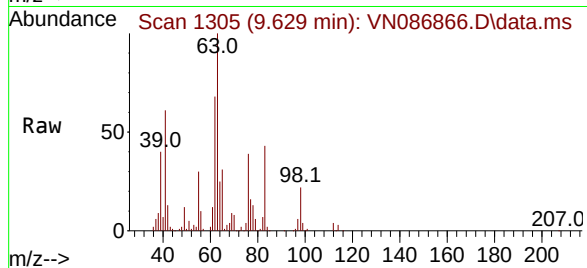
65 30.6 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#46

Dibromomethane

Concen: 101.685 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. -0.006 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

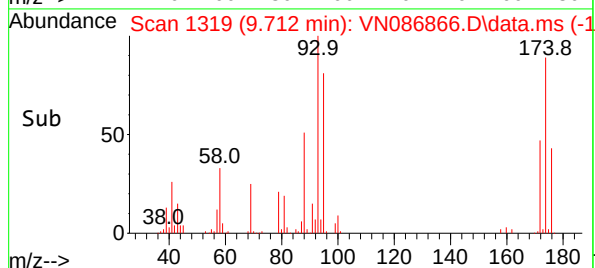
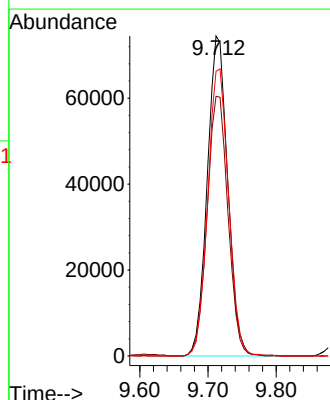
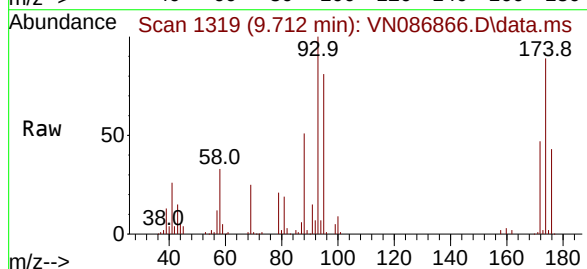
Tgt Ion: 93 Resp: 155530

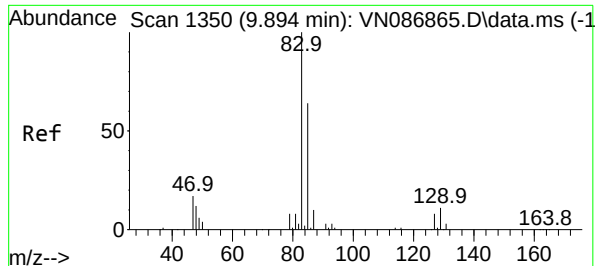
Ion Ratio Lower Upper

93 100

95 82.9 67.1 100.7

174 91.6 74.2 111.4





#47

Bromodichloromethane

Concen: 100.533 ug/l

RT: 9.894 min Scan# 1350

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

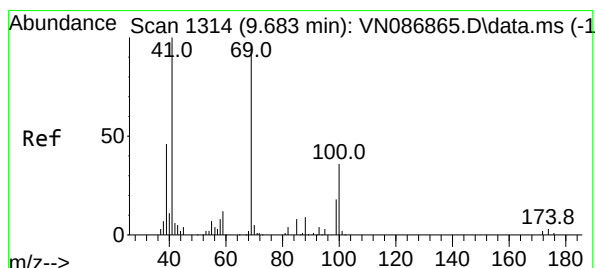
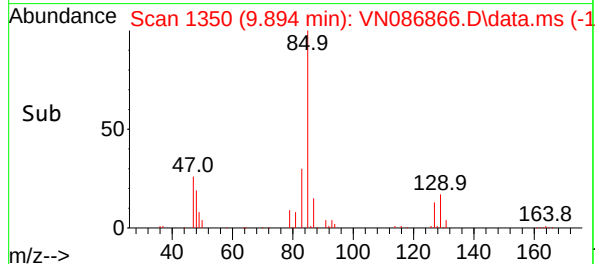
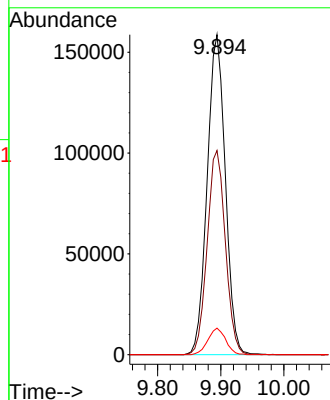
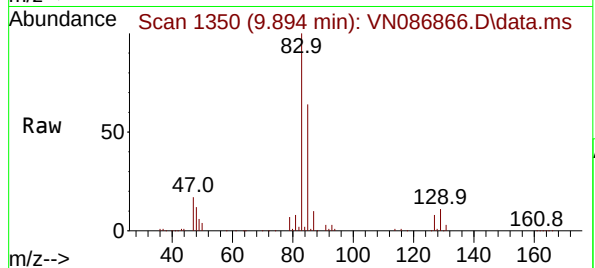
VSTDICC100

Tgt Ion:	83	Resp:	31637
Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.9	76.3
127	8.3	6.6	10.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#48

Methyl methacrylate

Concen: 101.288 ug/l

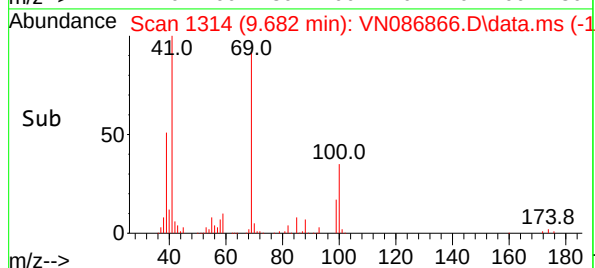
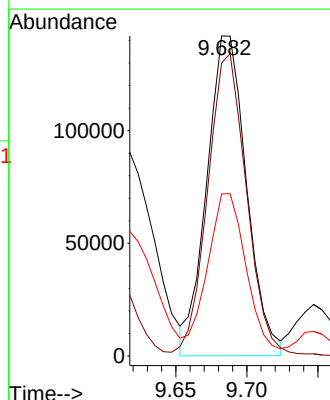
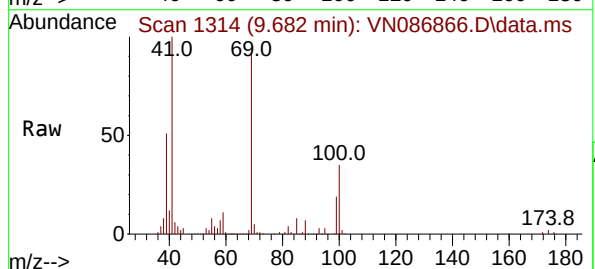
RT: 9.682 min Scan# 1314

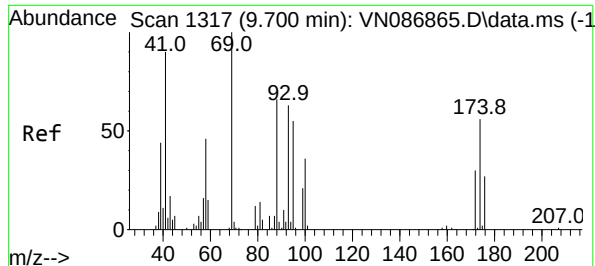
Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Tgt Ion:	41	Resp:	275710
Ion	Ratio	Lower	Upper
41	100		
69	92.4	74.6	112.0
39	50.1	40.2	60.4





#49

1,4-Dioxane

Concen: 2115.744 ug/l

RT: 9.706 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 88 Resp: 10477

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

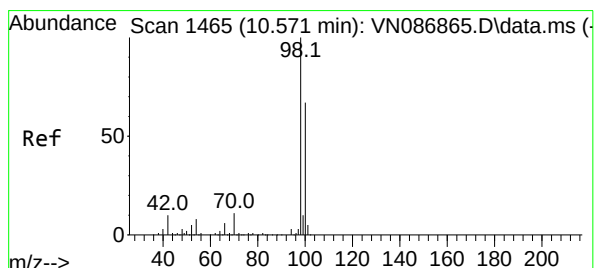
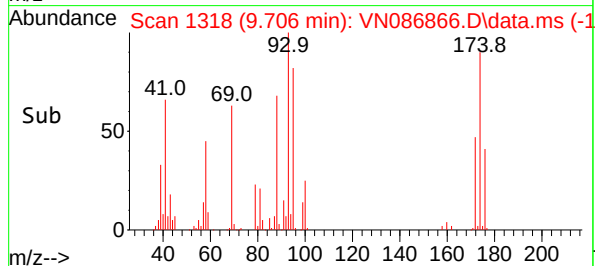
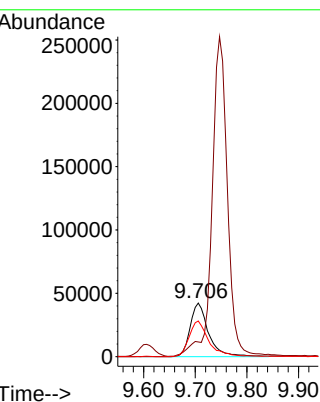
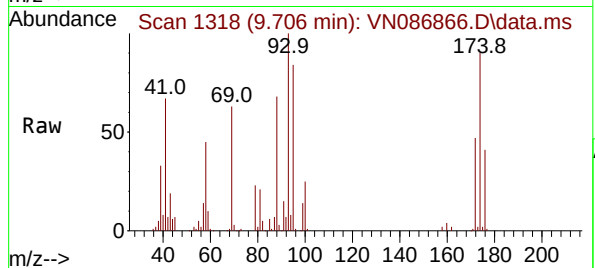
58 71.5 57.7 86.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#50

Toluene-d8

Concen: 100.419 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN086866.D

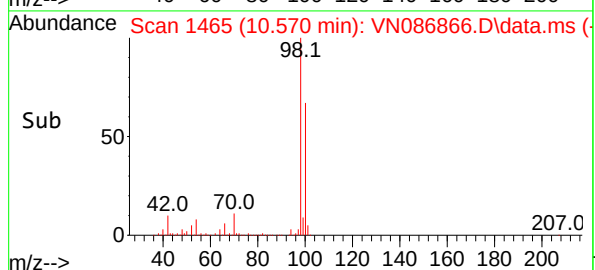
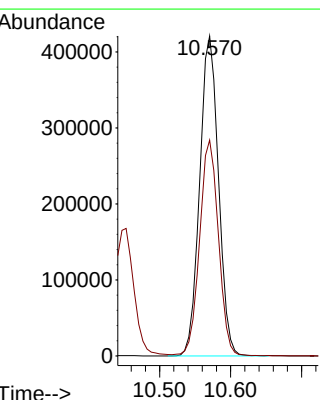
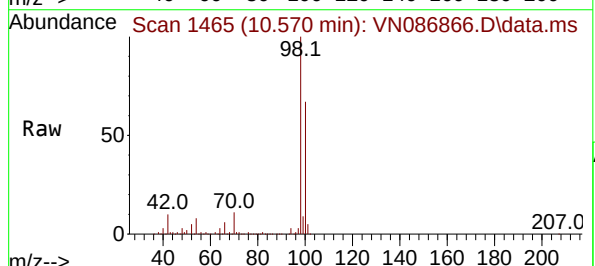
Acq: 06 Jun 2025 14:26

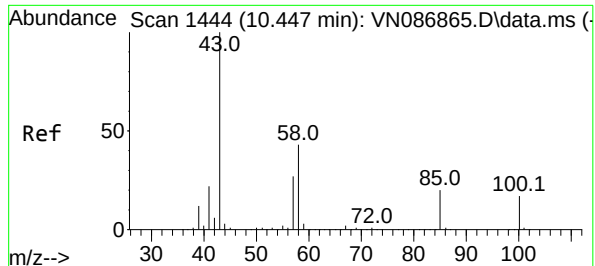
Tgt Ion: 98 Resp: 772210

Ion Ratio Lower Upper

98 100

100 67.6 53.4 80.0





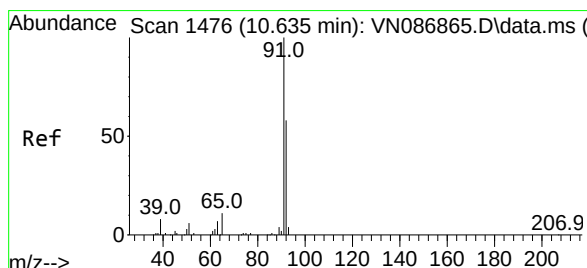
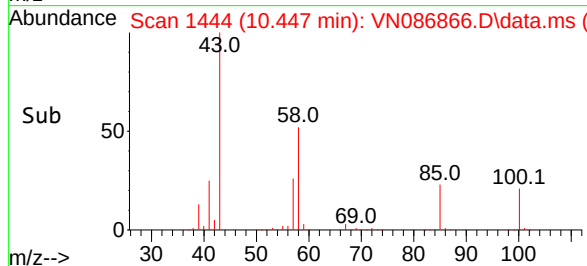
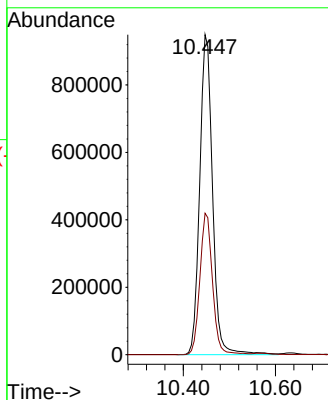
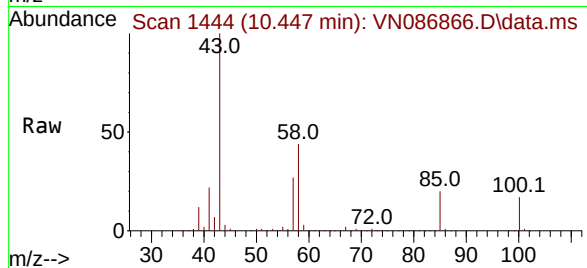
#51
4-Methyl-2-Pentanone
Concen: 517.729 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 1843274
Ion Ratio Lower Upper
43 100
58 43.6 34.2 51.4

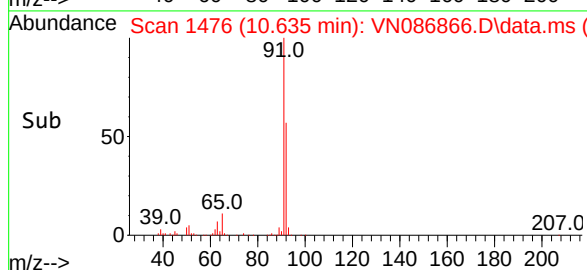
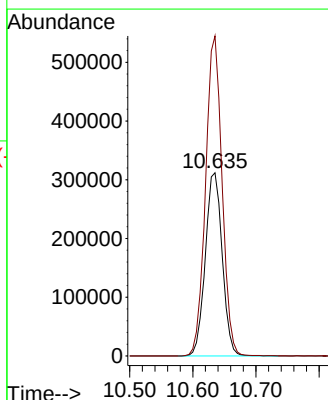
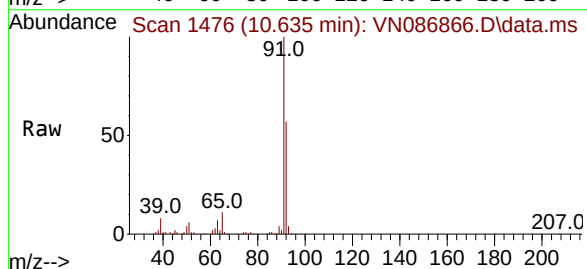
Manual Integrations
APPROVED

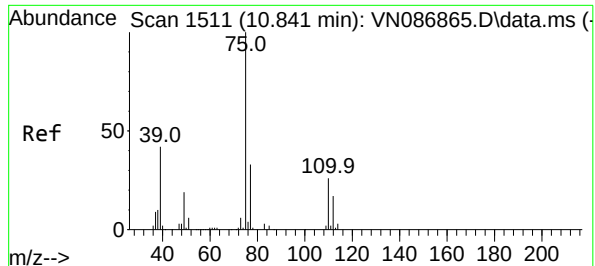
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#52
Toluene
Concen: 100.092 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 92 Resp: 578978
Ion Ratio Lower Upper
92 100
91 170.6 136.5 204.7





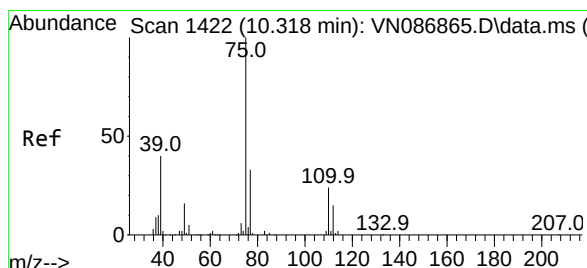
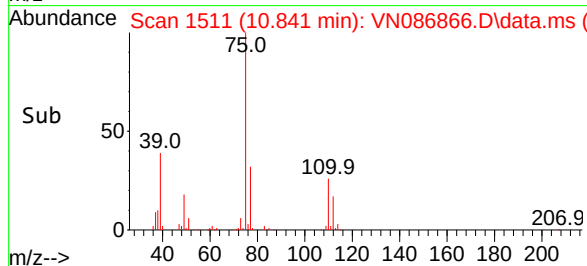
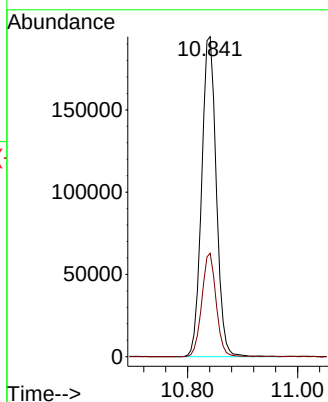
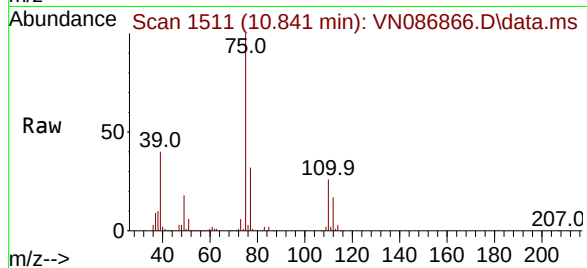
#53
t-1,3-Dichloropropene
Concen: 102.077 ug/l
RT: 10.841 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 359200
Ion Ratio Lower Upper
75 100
77 32.3 26.4 39.6

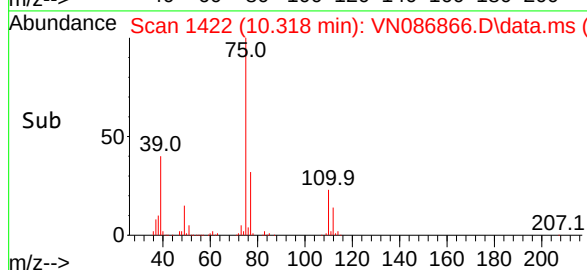
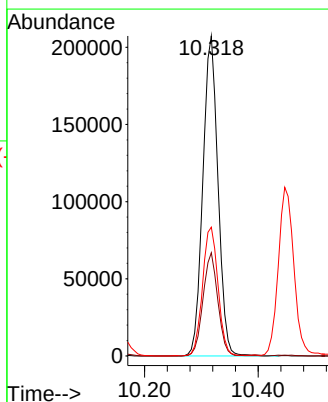
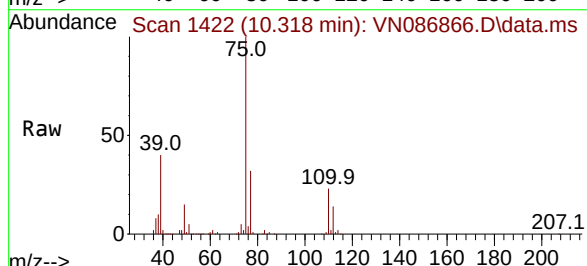
Manual Integrations
APPROVED

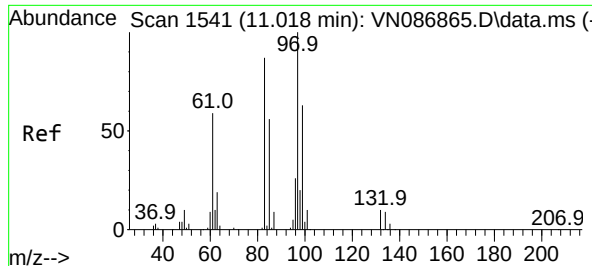
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#54
cis-1,3-Dichloropropene
Concen: 101.730 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

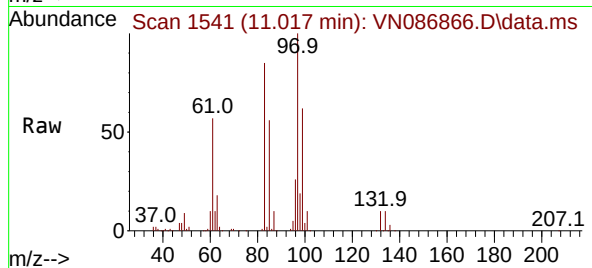
Tgt Ion: 75 Resp: 383030
Ion Ratio Lower Upper
75 100
77 32.3 26.2 39.4
39 40.1 32.3 48.5





#55
1,1,2-Trichloroethane
Concen: 98.808 ug/l
RT: 11.017 min Scan# 1541
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

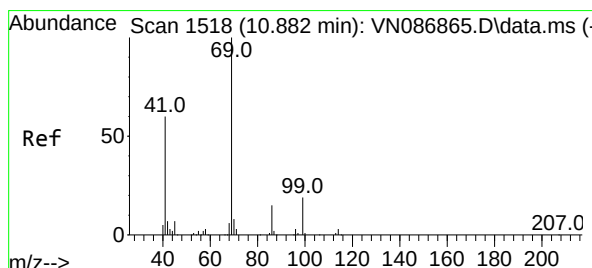
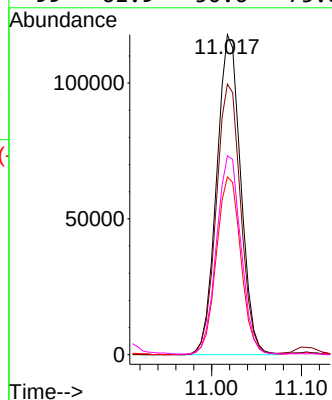
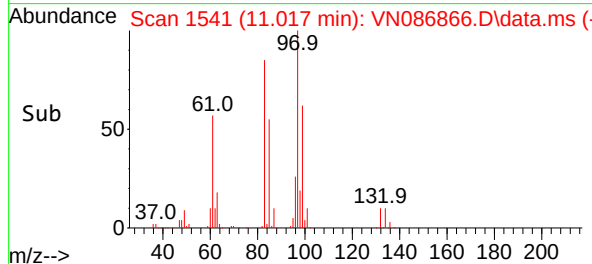
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 97 Resp: 21992
Ion Ratio Lower Upper
97 100
83 84.5 69.7 104.5
85 55.6 45.1 67.7
99 61.9 50.6 75.8

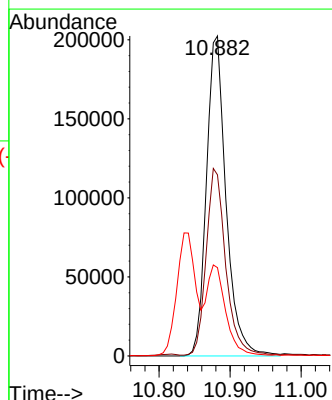
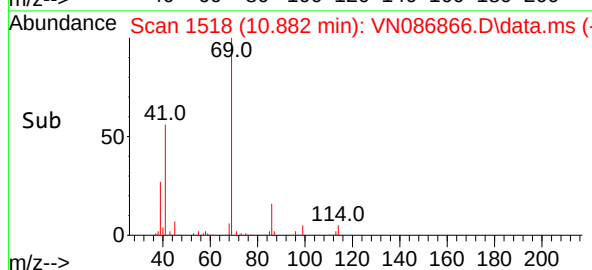
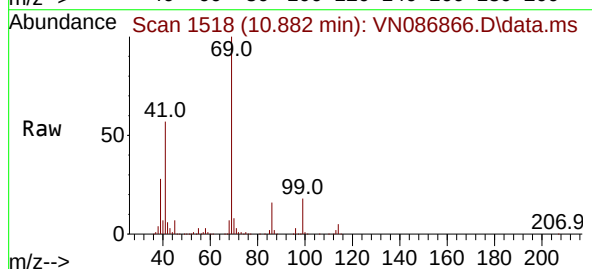
Manual Integrations
APPROVED

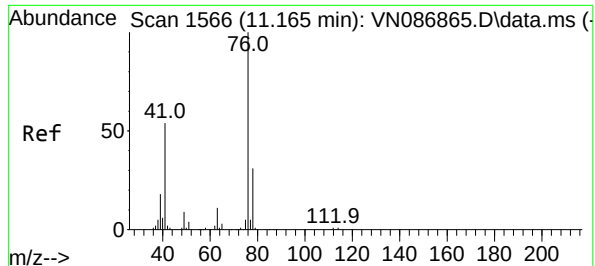
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#56
Ethyl methacrylate
Concen: 109.955 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 69 Resp: 389802
Ion Ratio Lower Upper
69 100
41 58.3 47.2 70.8
39 27.5 23.0 34.6





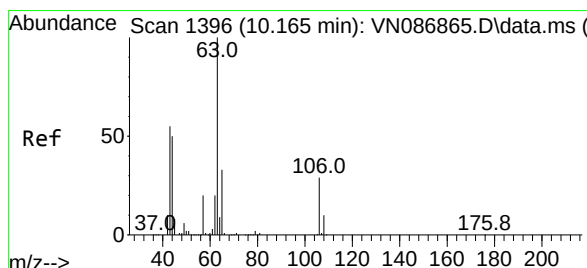
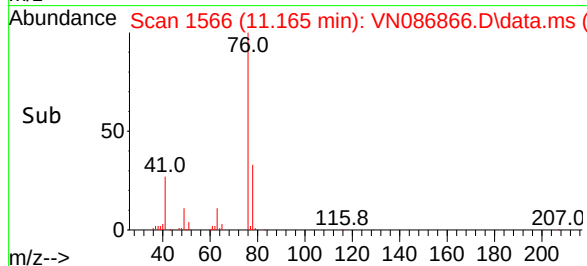
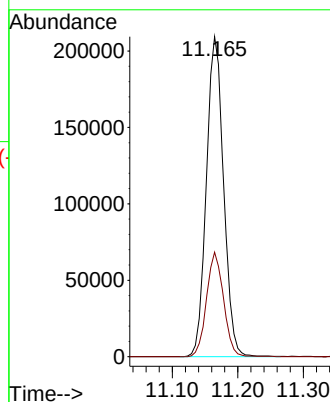
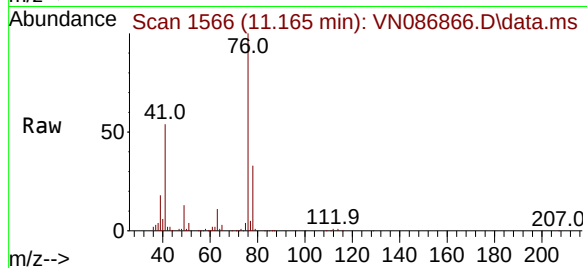
#57
1,3-Dichloropropane
Concen: 99.069 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 382510
Ion Ratio Lower Upper
76 100
78 32.2 25.3 37.9

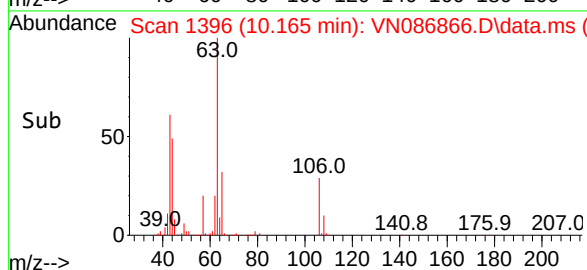
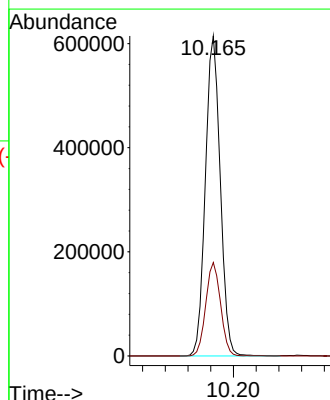
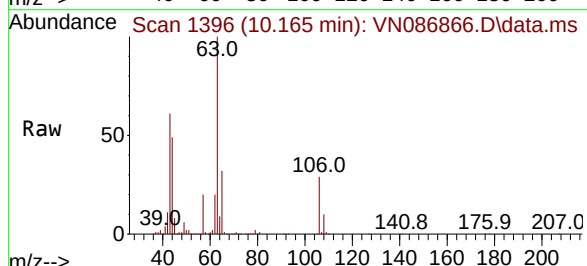
Manual Integrations
APPROVED

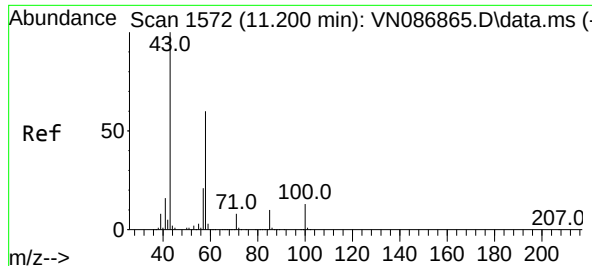
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#58
2-Chloroethyl Vinyl ether
Concen: 526.621 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 63 Resp: 1113523
Ion Ratio Lower Upper
63 100
106 29.1 23.0 34.6





#59

2-Hexanone

Concen: 567.535 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 1301539

Ion Ratio Lower Upper

43 100

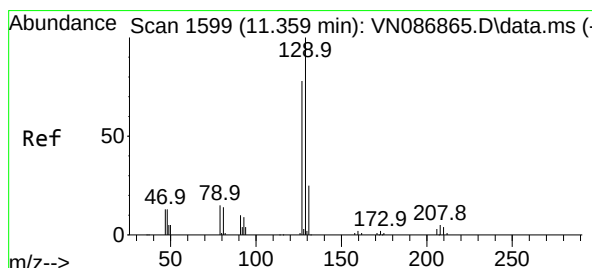
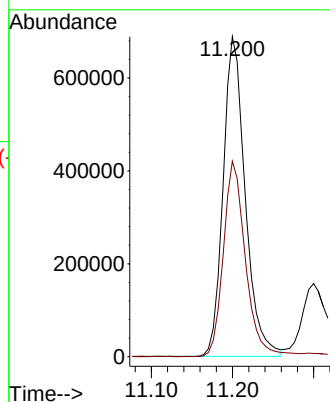
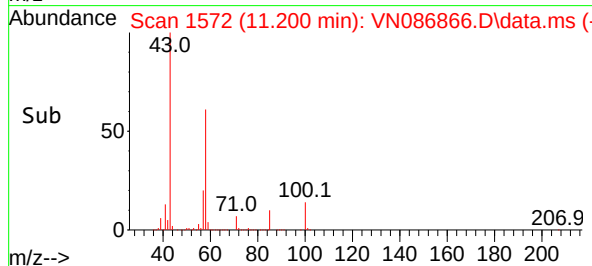
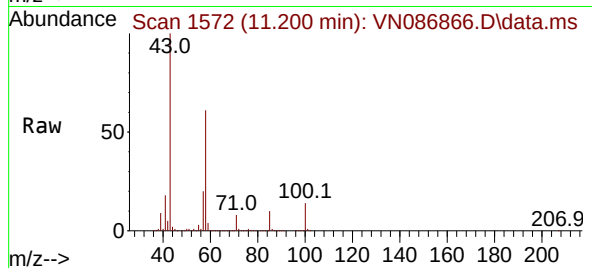
58 61.4 30.4 91.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#60

Dibromochloromethane

Concen: 102.616 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN086866.D

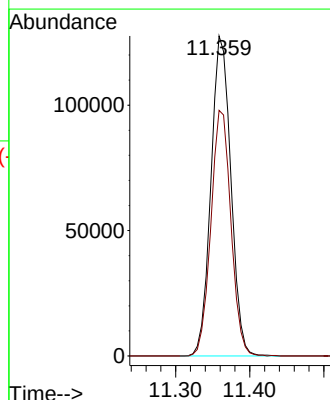
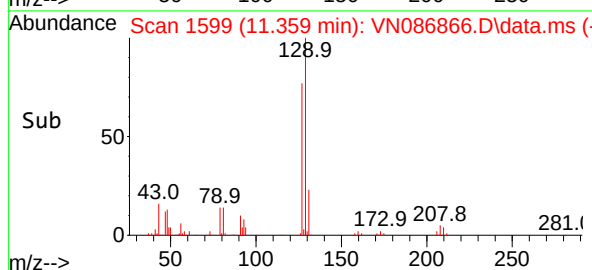
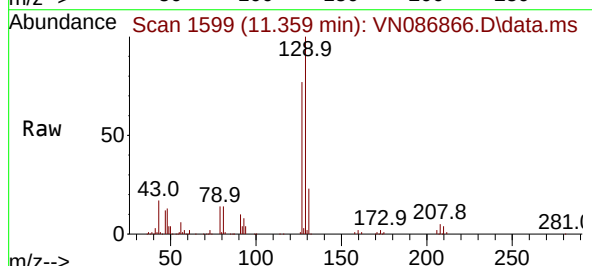
Acq: 06 Jun 2025 14:26

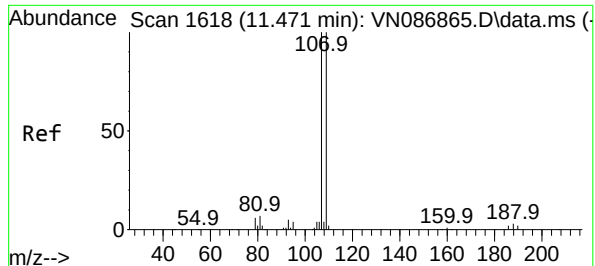
Tgt Ion:129 Resp: 237965

Ion Ratio Lower Upper

129 100

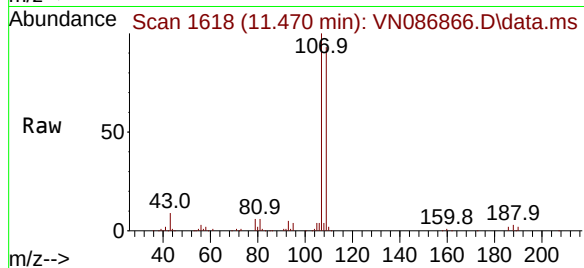
127 77.1 38.6 115.8





#61
1,2-Dibromoethane
Concen: 101.787 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

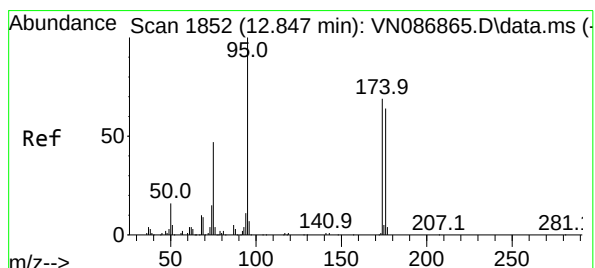
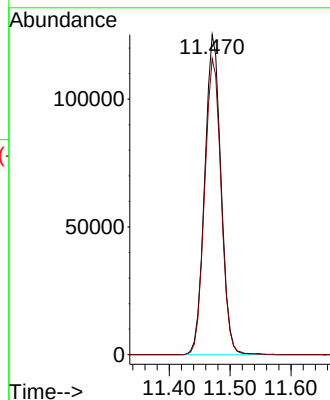
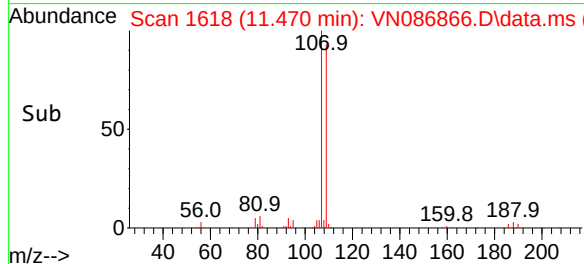
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



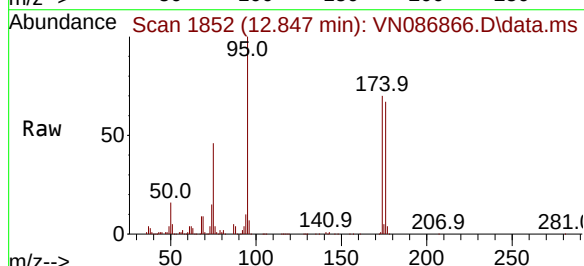
Tgt Ion:107 Resp: 232214
Ion Ratio Lower Upper
107 100
109 93.8 76.3 114.5

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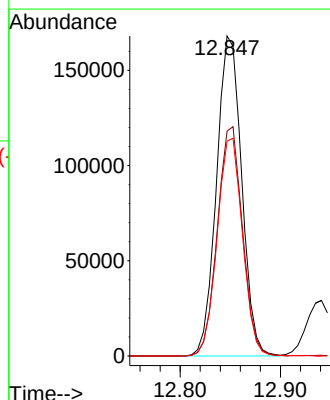
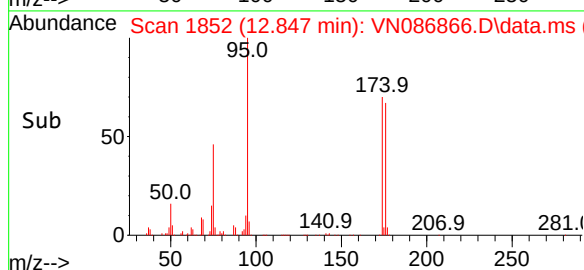
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

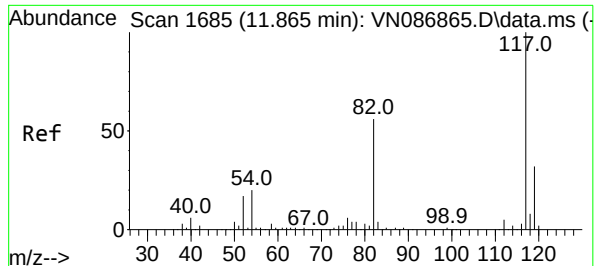


#62
4-Bromofluorobenzene
Concen: 102.339 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26



Tgt Ion: 95 Resp: 292385
Ion Ratio Lower Upper
95 100
174 71.6 0.0 141.8
176 68.6 0.0 132.6





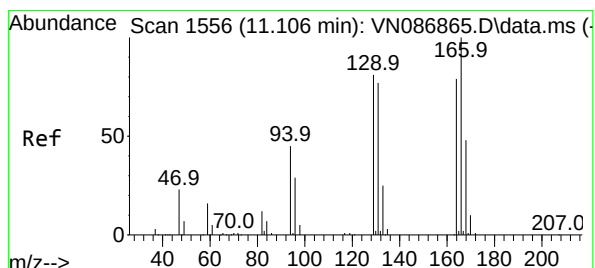
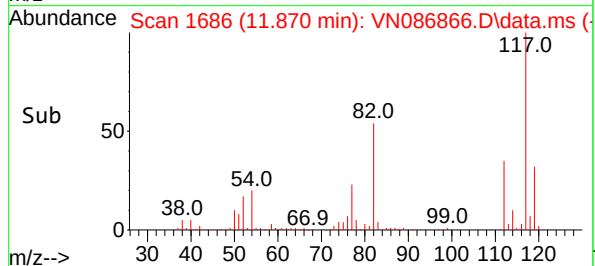
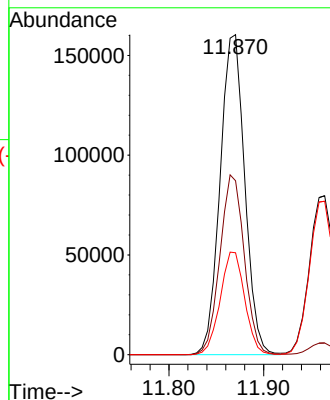
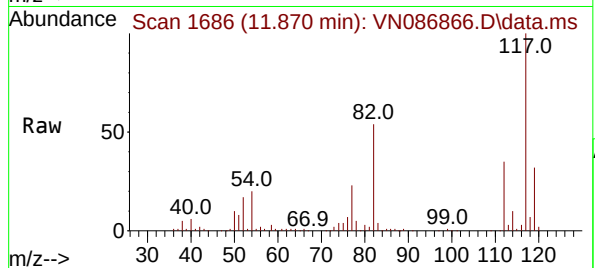
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 29031
Ion Ratio Lower Upper
117 100
82 54.3 44.6 67.0
119 31.9 25.5 38.3

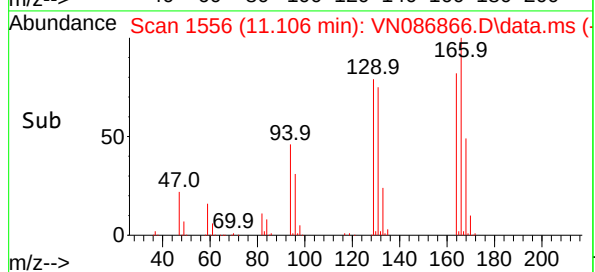
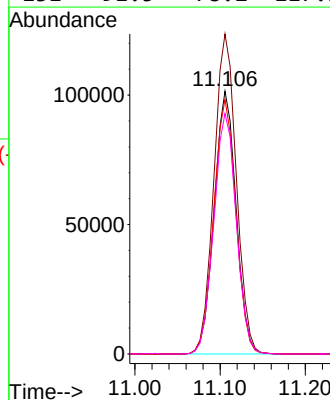
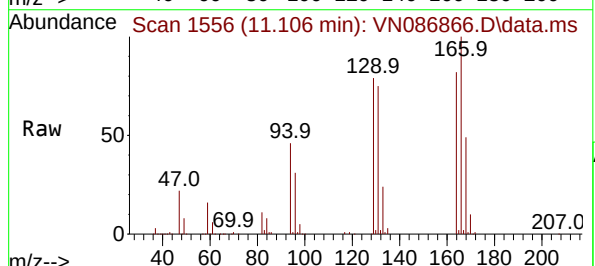
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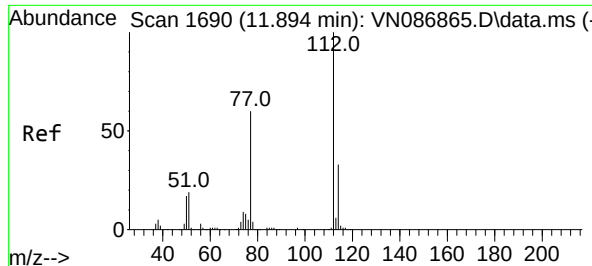
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#64
Tetrachloroethene
Concen: 98.824 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:164 Resp: 181568
Ion Ratio Lower Upper
164 100
166 121.8 101.8 152.8
129 96.8 83.0 124.4
131 91.5 78.2 117.2





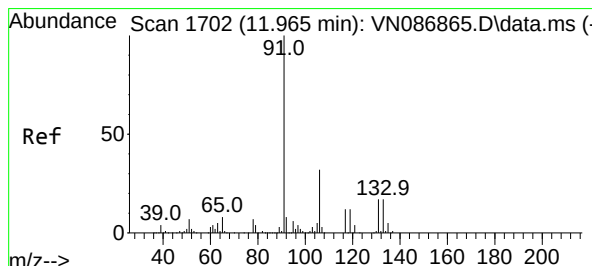
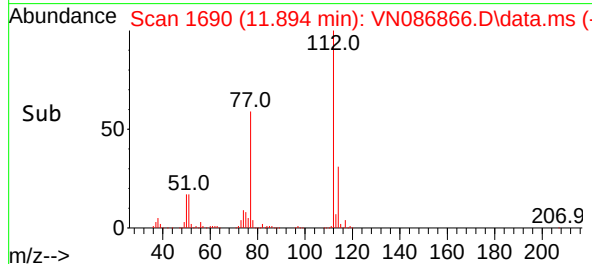
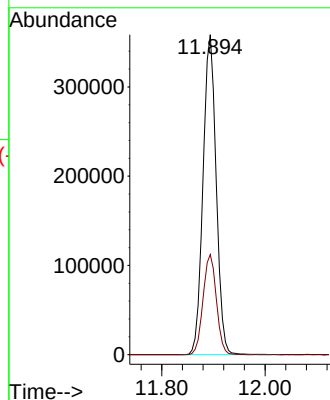
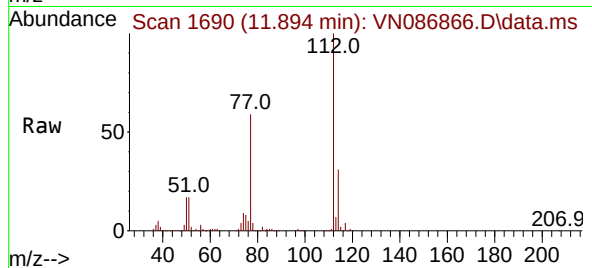
#65
Chlorobenzene
Concen: 98.793 ug/l
RT: 11.894 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:112 Resp: 63256
Ion Ratio Lower Upper
112 100
114 31.3 26.2 39.2

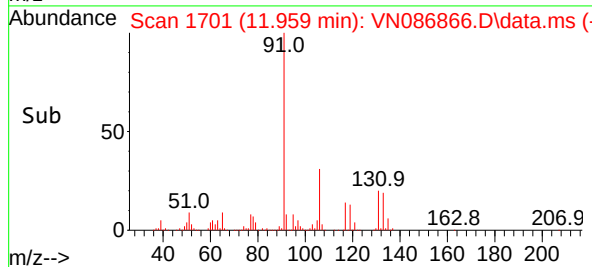
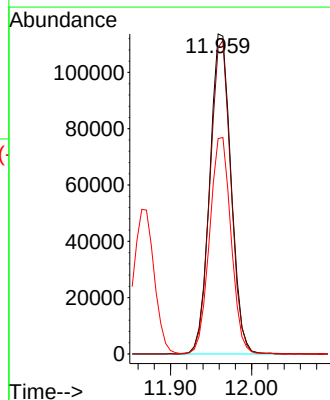
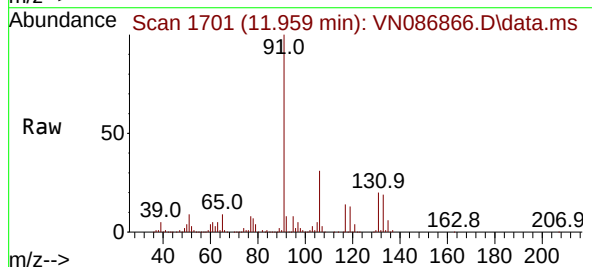
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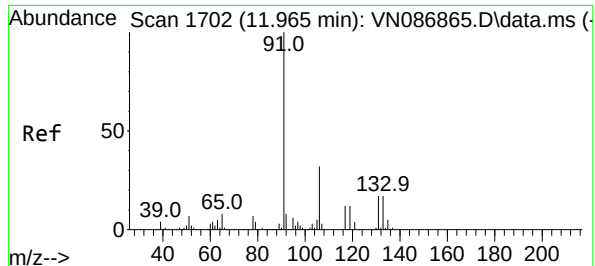
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 100.521 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:131 Resp: 206895
Ion Ratio Lower Upper
131 100
133 96.4 48.3 144.8
119 68.2 34.0 101.8





#67

Ethyl Benzene

Concen: 100.717 ug/l

RT: 11.964 min Scan# 1702

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 111080

Ion Ratio Lower Upper

91 100

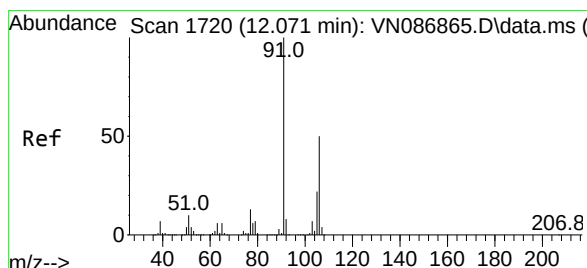
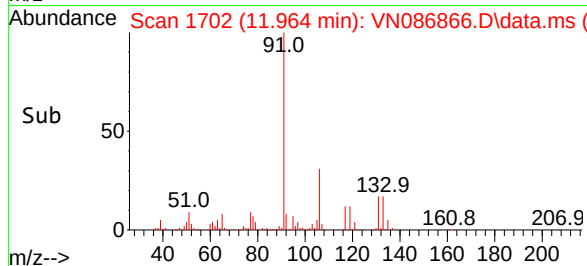
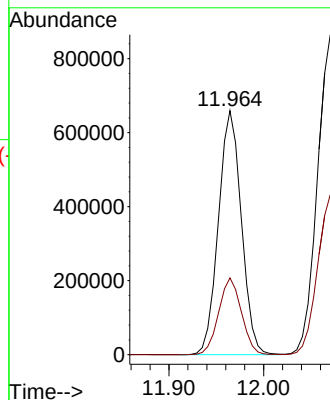
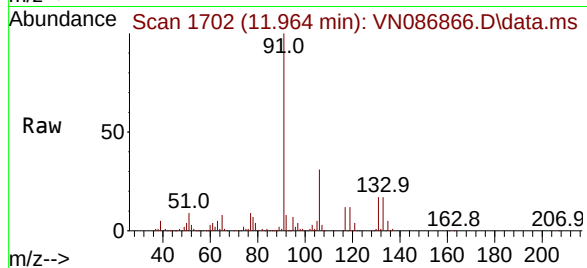
106 31.5 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#68

m/p-Xylenes

Concen: 202.411 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN086866.D

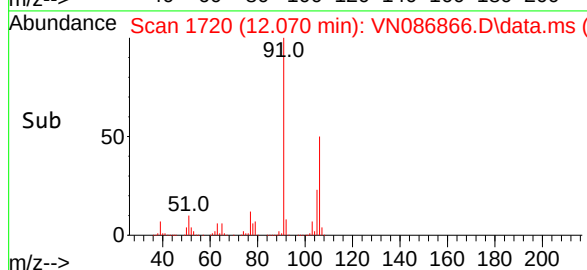
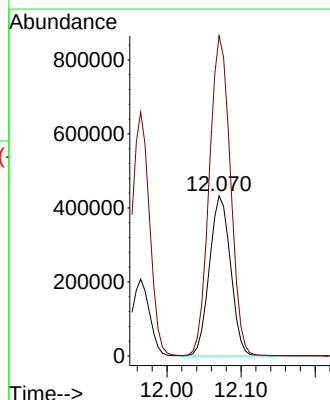
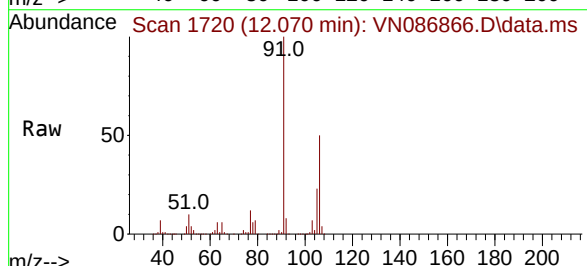
Acq: 06 Jun 2025 14:26

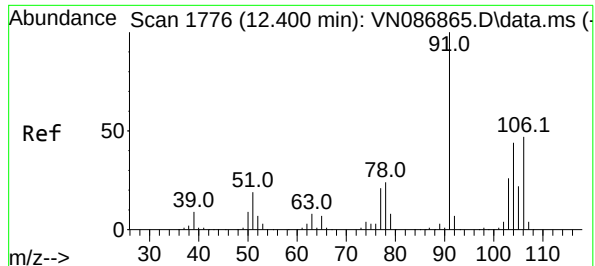
Tgt Ion:106 Resp: 854557

Ion Ratio Lower Upper

106 100

91 200.4 159.4 239.0





#69

o-Xylene

Concen: 102.070 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:106 Resp: 412719

Ion Ratio Lower Upper

106 100

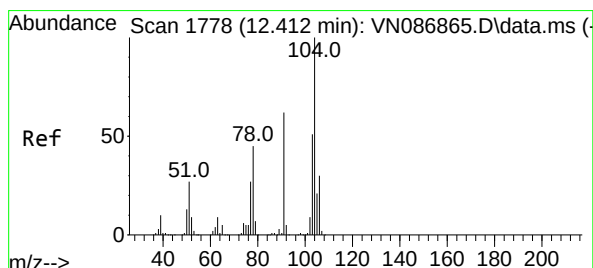
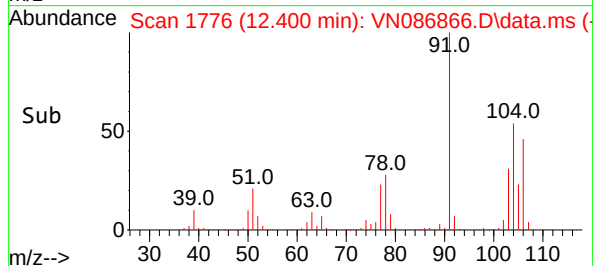
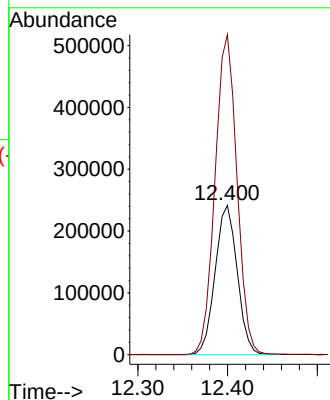
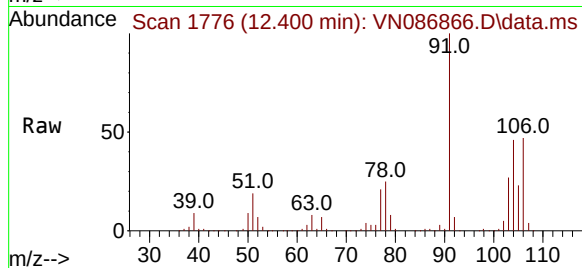
91 212.8 106.1 318.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#70

Styrene

Concen: 103.127 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

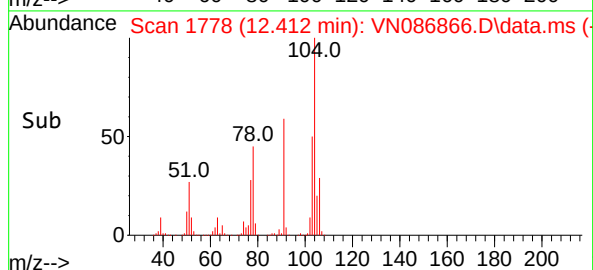
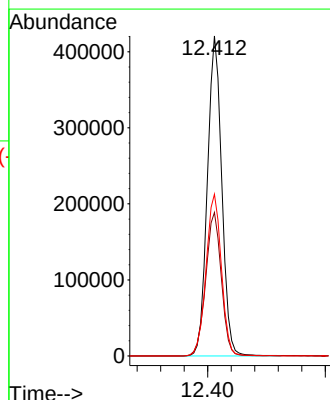
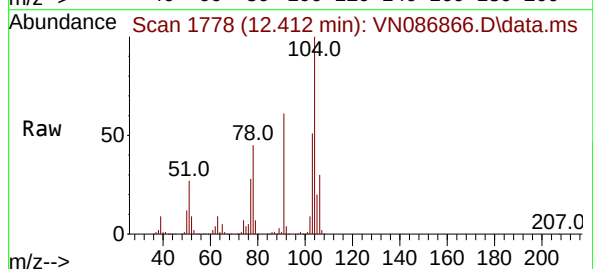
Tgt Ion:104 Resp: 713548

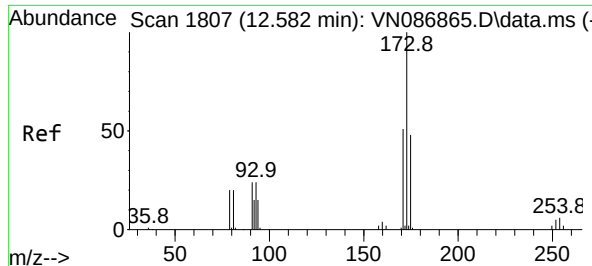
Ion Ratio Lower Upper

104 100

78 48.4 38.5 57.7

103 54.0 43.1 64.7





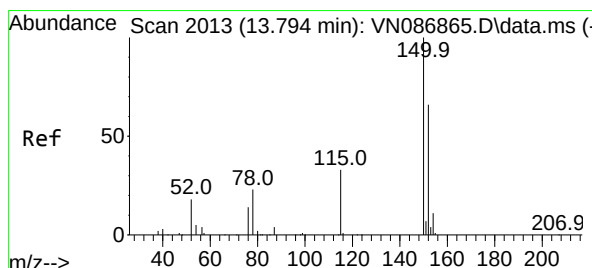
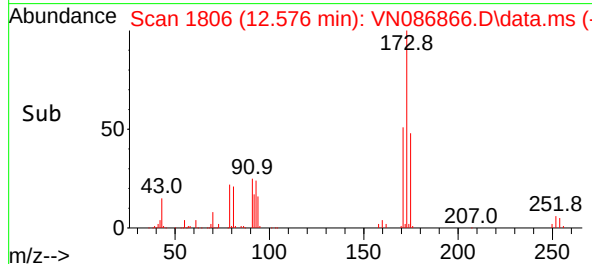
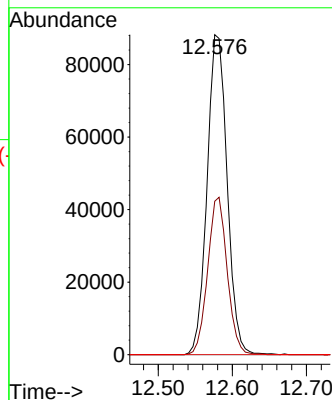
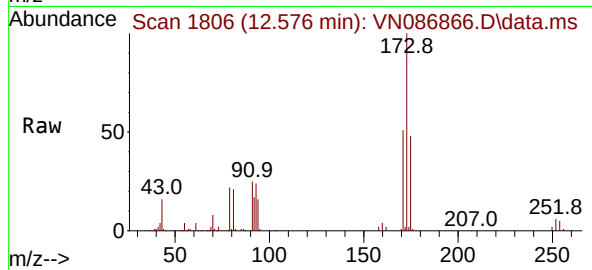
#71
Bromoform
Concen: 108.707 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:173 Resp: 16578
Ion Ratio Lower Upper
173 100
175 47.9 24.1 72.4
254 0.0 0.0 0.0

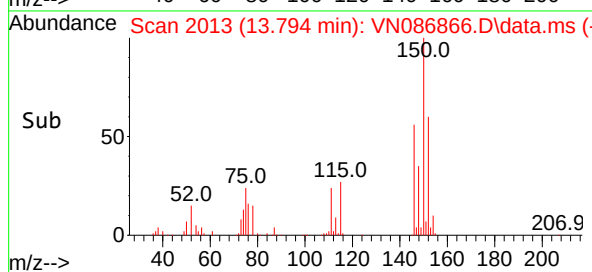
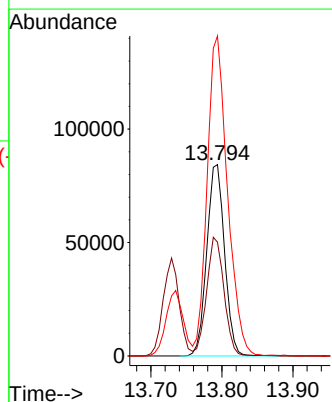
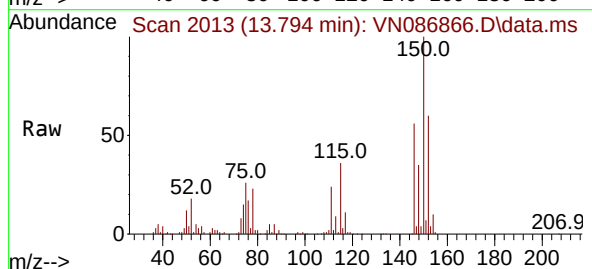
Manual Integrations
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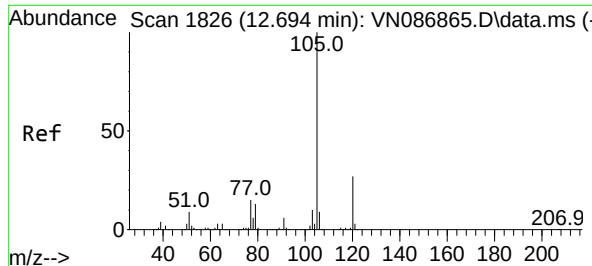
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

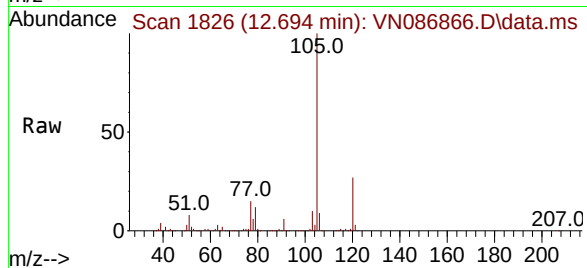
Tgt Ion:152 Resp: 147098
Ion Ratio Lower Upper
152 100
115 60.1 30.1 90.5
150 190.4 0.0 345.0





#73
Isopropylbenzene
Concen: 99.410 ug/l
RT: 12.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

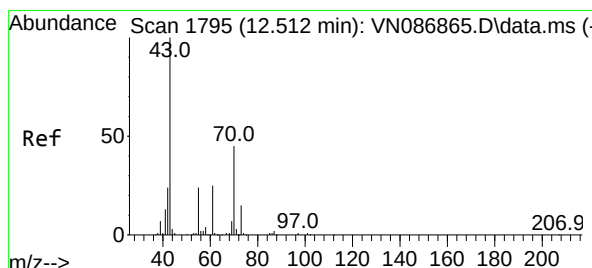
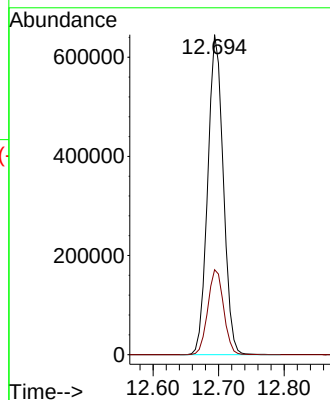
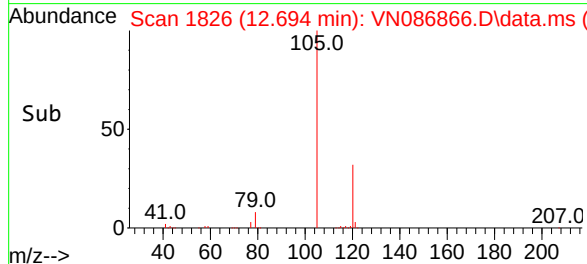
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



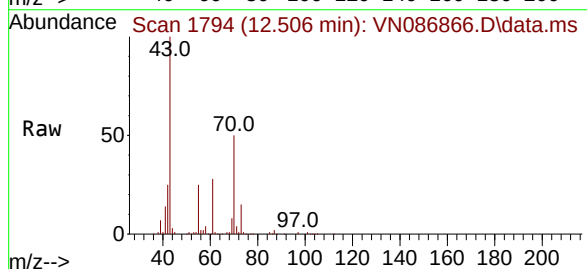
Tgt Ion:105 Resp: 106529
Ion Ratio Lower Upper
105 100
120 27.0 13.5 40.4

Manual Integrations
APPROVED

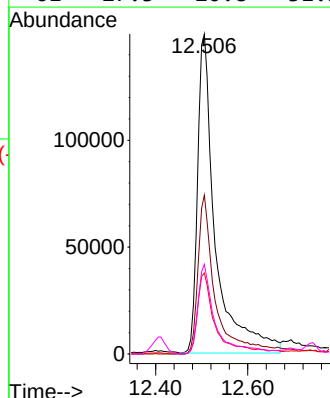
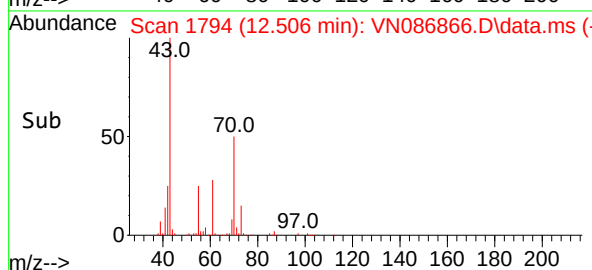
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

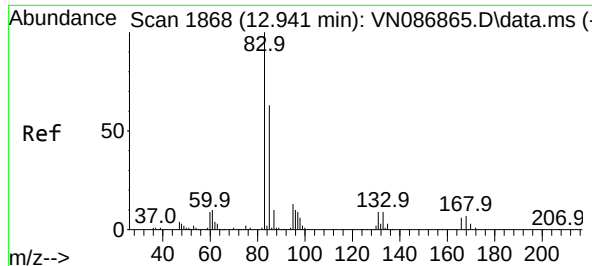


#74
N-ethyl acetate
Concen: 113.475 ug/l
RT: 12.506 min Scan# 1794
Delta R.T. -0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26



Tgt Ion: 43 Resp: 403587
Ion Ratio Lower Upper
43 100
70 47.7 37.6 56.4
55 25.0 19.0 28.6
61 27.3 20.8 31.2





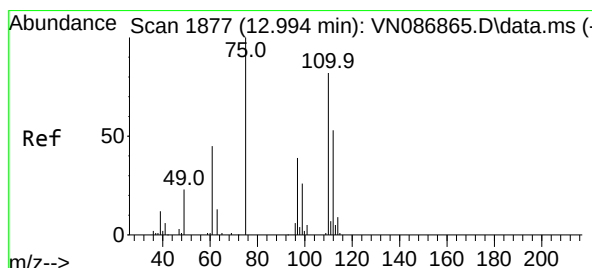
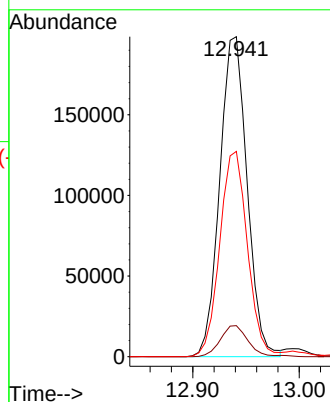
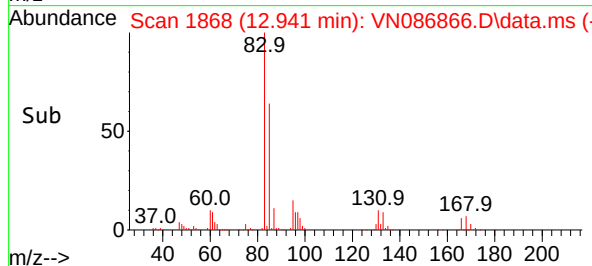
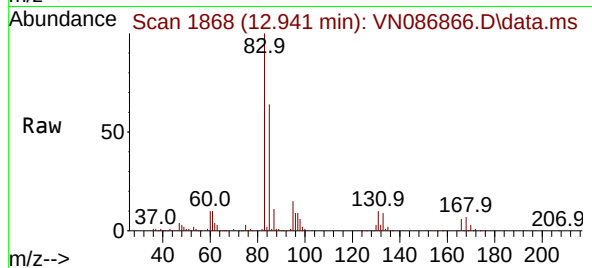
#75
1,1,2,2-Tetrachloroethane
Concen: 97.616 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion: 83 Resp: 354380
Ion Ratio Lower Upper
83 100
131 9.9 4.9 14.7
85 64.9 32.0 96.0

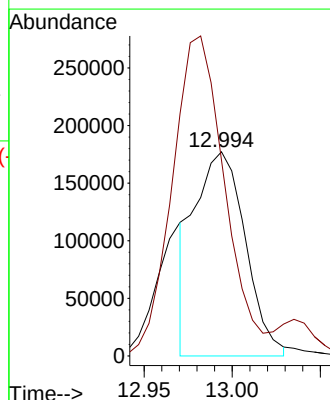
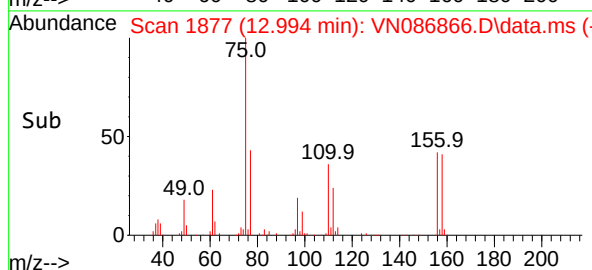
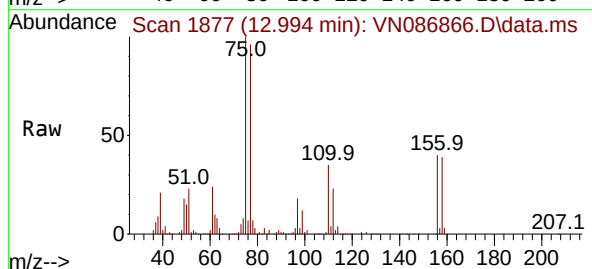
Manual Integrations
APPROVED

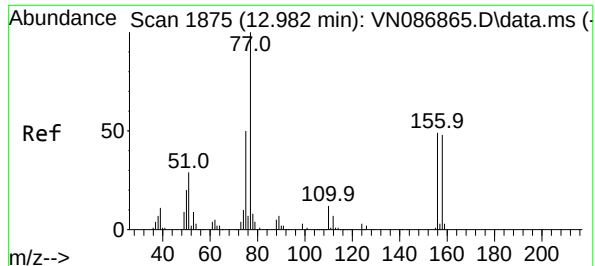
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#76
1,2,3-Trichloropropane
Concen: 100.738 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 75 Resp: 353334
Ion Ratio Lower Upper
75 100
77 162.2 79.3 237.9





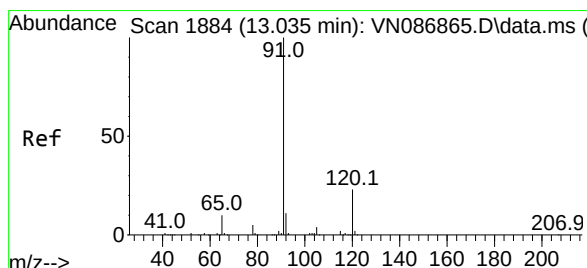
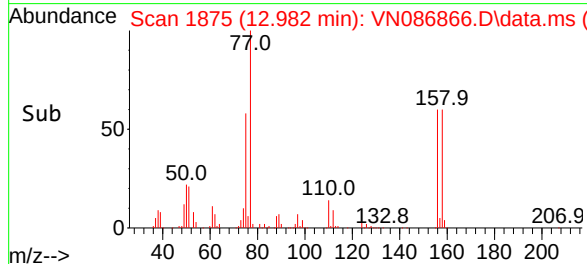
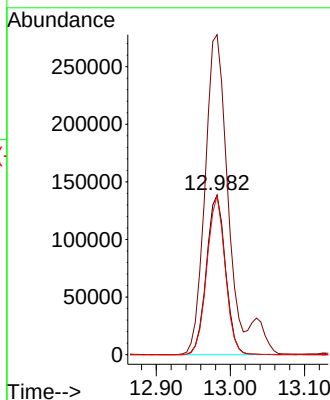
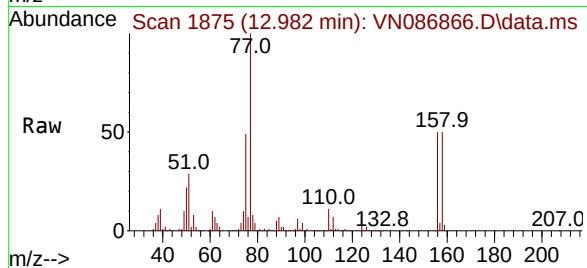
#77
Bromobenzene
Concen: 100.266 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:156 Resp: 24641
Ion Ratio Lower Upper
156 100
77 232.6 117.7 353.1
158 96.4 48.1 144.4

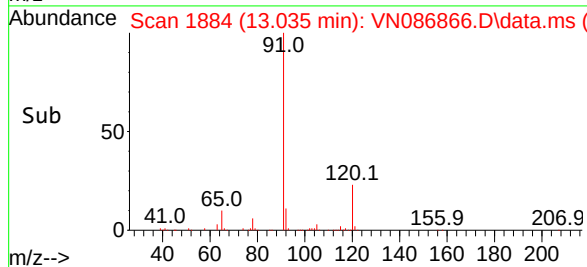
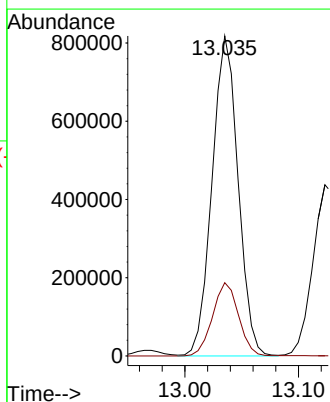
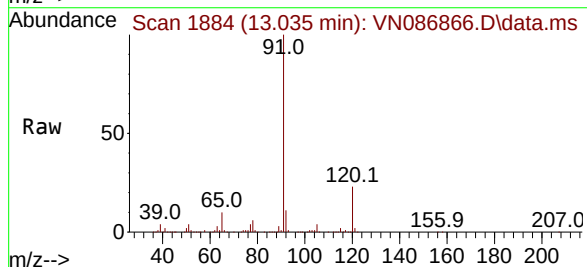
Manual Integrations
APPROVED

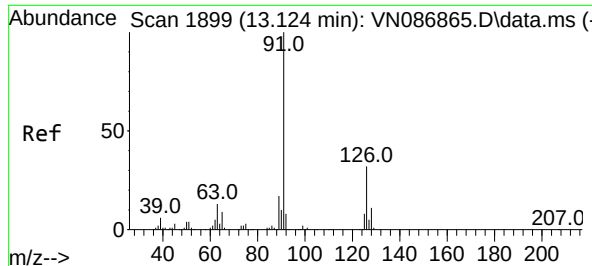
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#78
n-propylbenzene
Concen: 99.948 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 91 Resp: 1301631
Ion Ratio Lower Upper
91 100
120 22.9 11.4 34.2





#79

2-Chlorotoluene

Concen: 98.630 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 770308

Ion Ratio Lower Upper

91 100

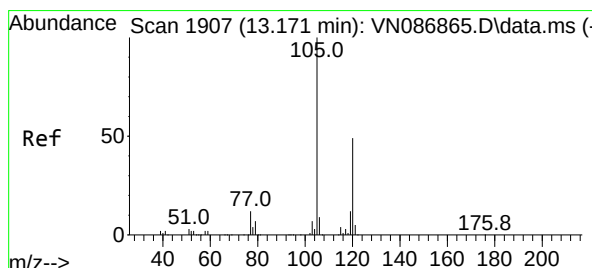
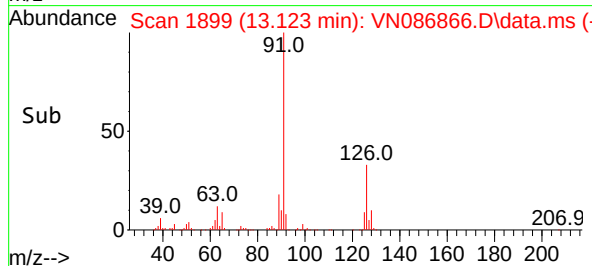
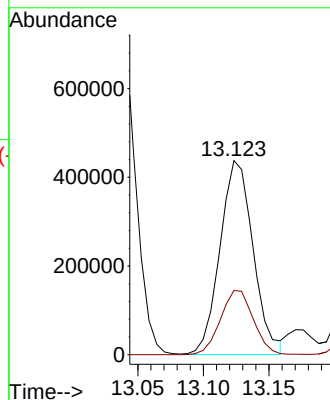
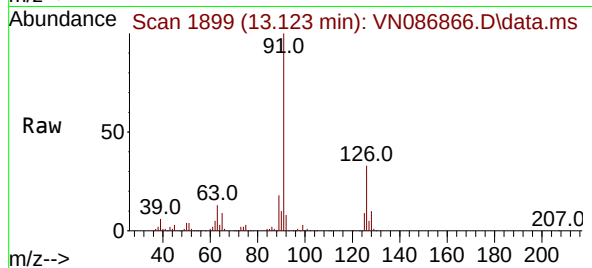
126 32.8 16.2 48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#80

1,3,5-Trimethylbenzene

Concen: 101.873 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086866.D

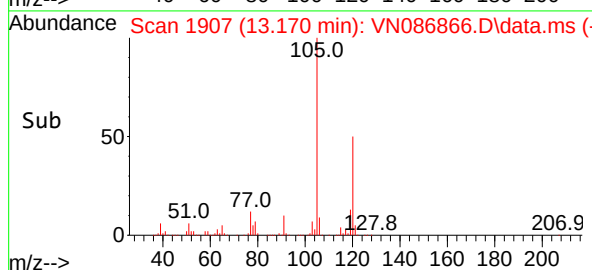
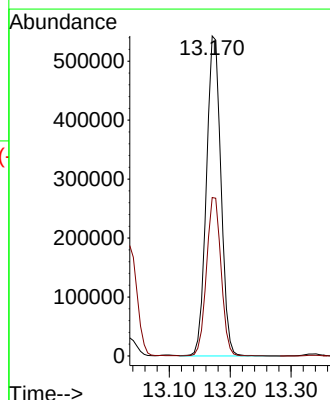
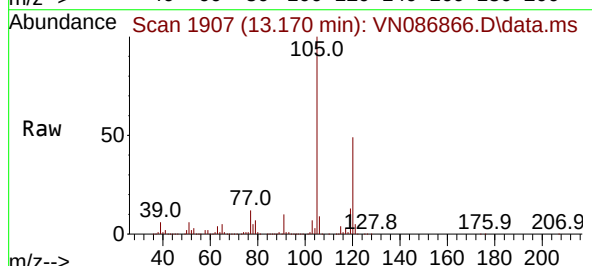
Acq: 06 Jun 2025 14:26

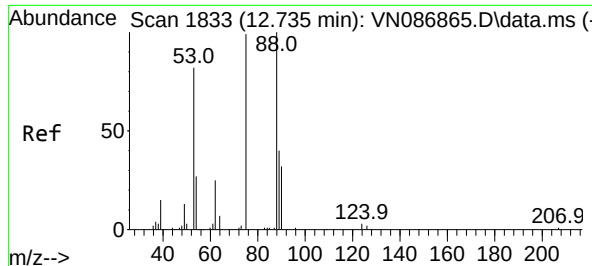
Tgt Ion:105 Resp: 901317

Ion Ratio Lower Upper

105 100

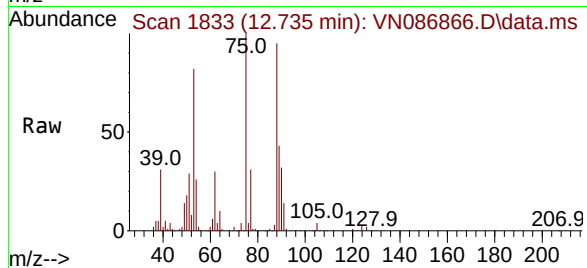
120 49.7 24.9 74.6





#81
trans-1,4-Dichloro-2-butene
Concen: 105.820 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

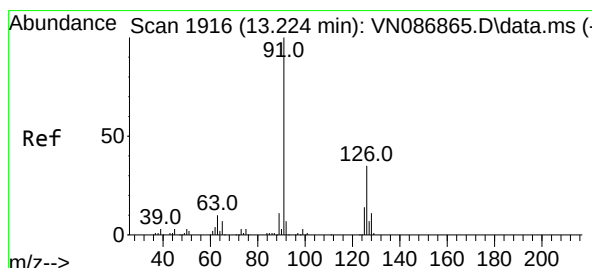
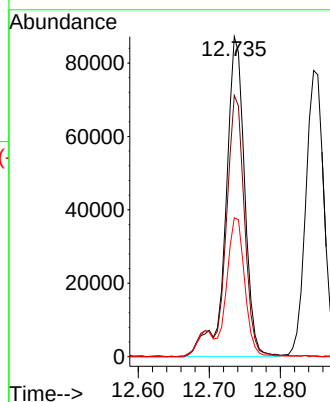
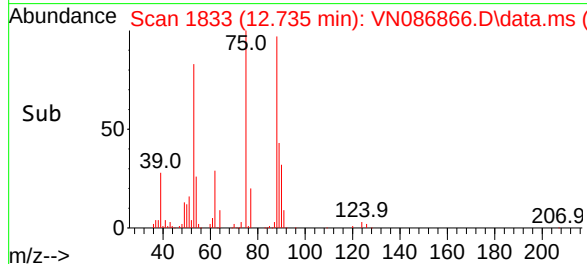
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion: 75 Resp: 160730
Ion Ratio Lower Upper
75 100
53 76.0 66.6 99.8
89 41.1 36.7 55.1

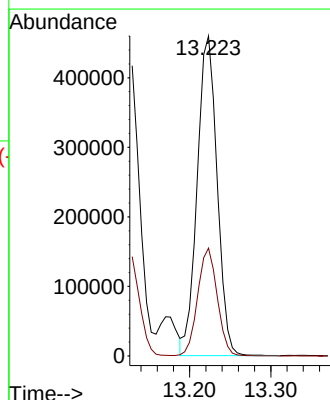
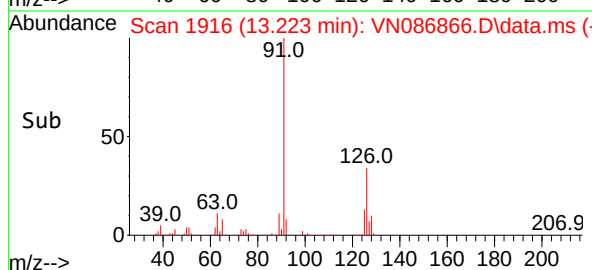
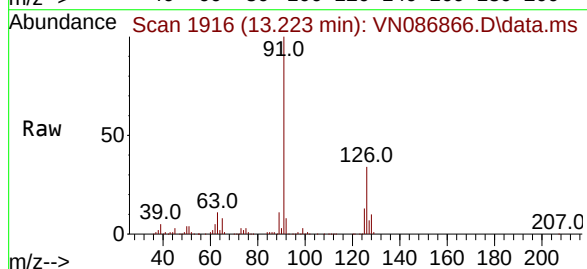
Manual Integrations
APPROVED

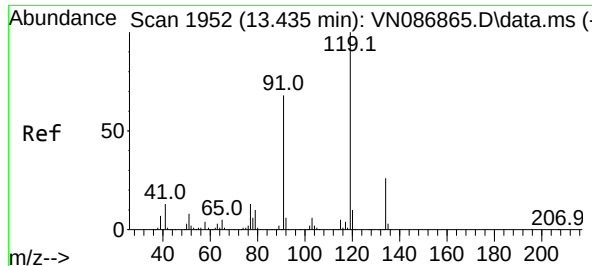
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#82
4-Chlorotoluene
Concen: 99.166 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion: 91 Resp: 783657
Ion Ratio Lower Upper
91 100
126 33.2 16.7 50.1





#83

tert-Butylbenzene

Concen: 99.710 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

Tgt Ion:119 Resp: 807528

Ion Ratio Lower Upper

119 100

91 64.6 32.1 96.5

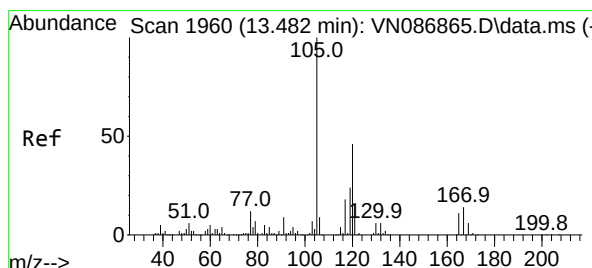
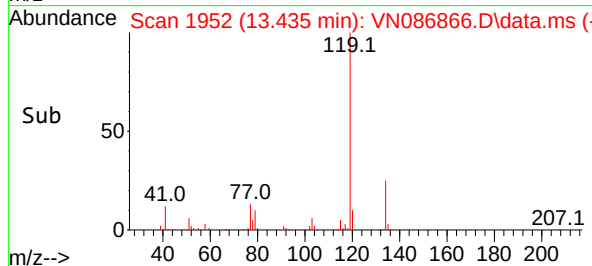
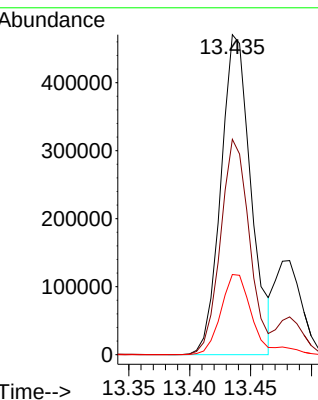
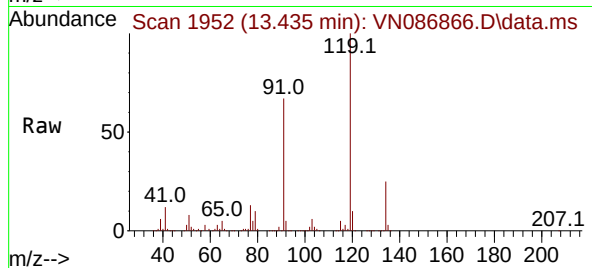
134 26.6 13.4 40.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#84

1,2,4-Trimethylbenzene

Concen: 101.983 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.000 min

Lab File: VN086866.D

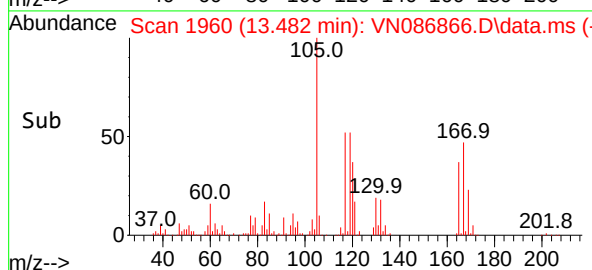
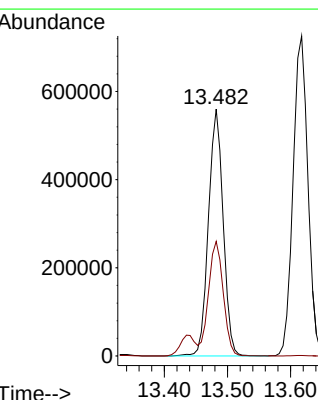
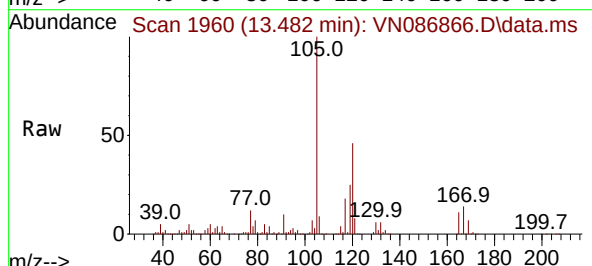
Acq: 06 Jun 2025 14:26

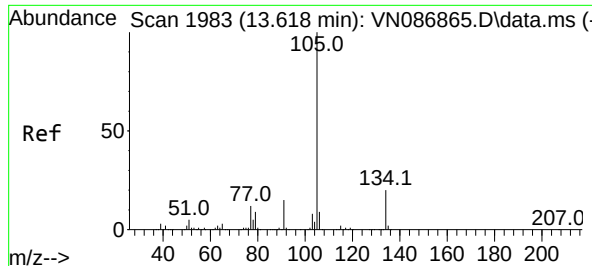
Tgt Ion:105 Resp: 904794

Ion Ratio Lower Upper

105 100

120 46.7 23.2 69.6





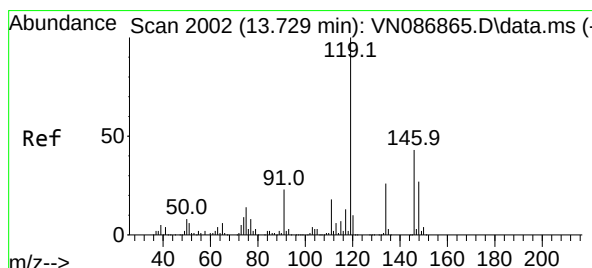
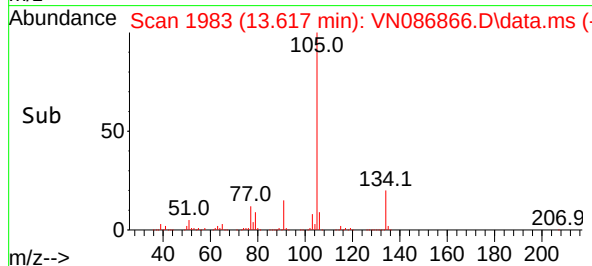
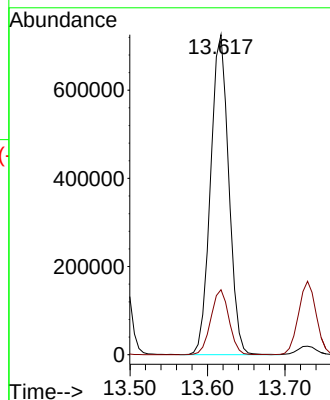
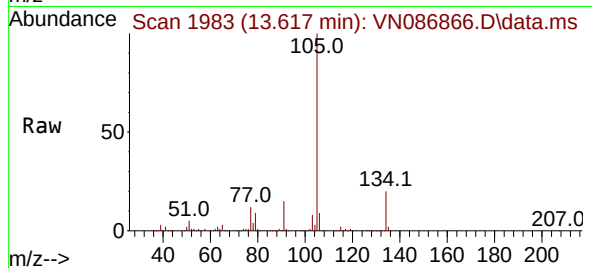
#85
sec-Butylbenzene
Concen: 100.513 ug/l
RT: 13.617 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 118215
Ion Ratio Lower Upper
105 100
134 20.2 10.0 30.0

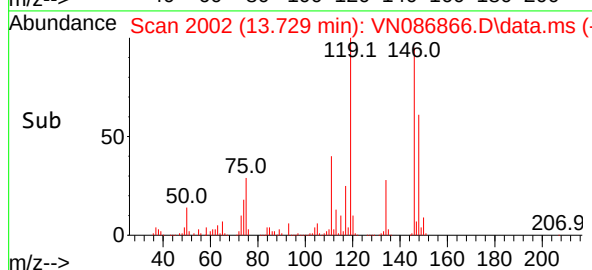
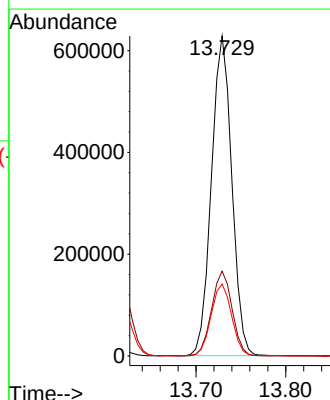
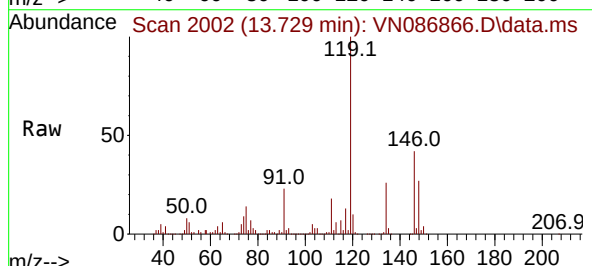
Manual Integrations
APPROVED

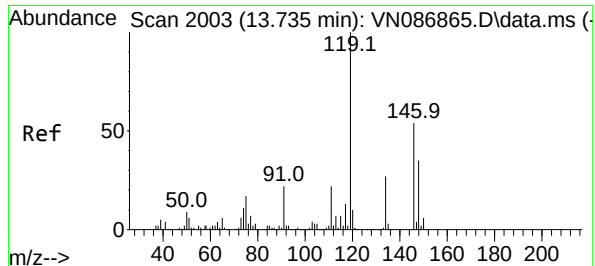
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#86
p-Isopropyltoluene
Concen: 101.857 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:119 Resp: 990273
Ion Ratio Lower Upper
119 100
134 26.7 13.5 40.4
91 22.6 11.5 34.4





#87

1,3-Dichlorobenzene

Concen: 98.063 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 47416

Ion Ratio Lower Upper

146 100

111 42.3 20.9 62.8

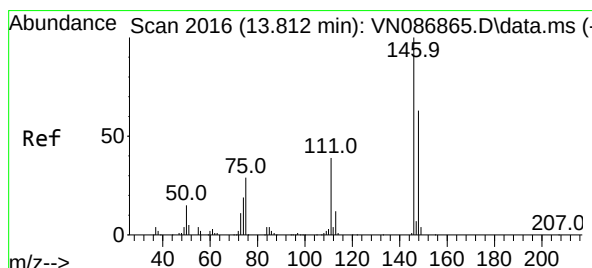
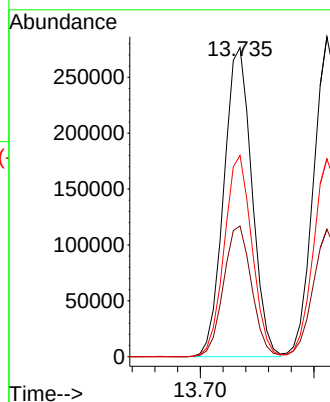
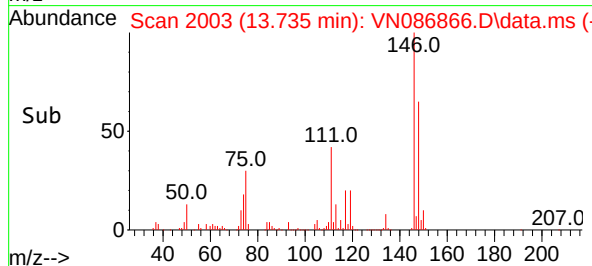
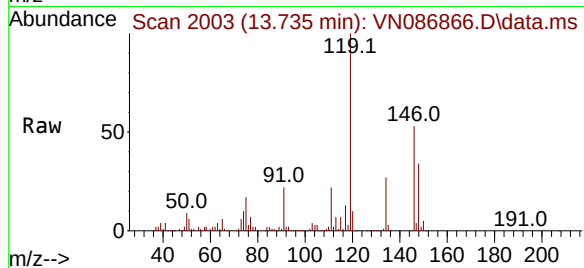
148 64.4 32.0 96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 97.978 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

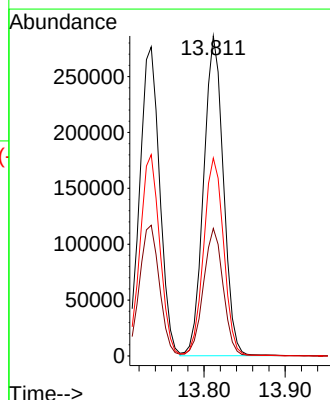
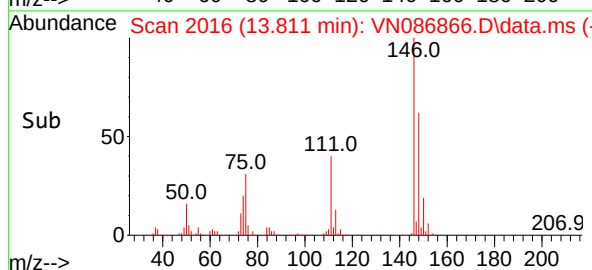
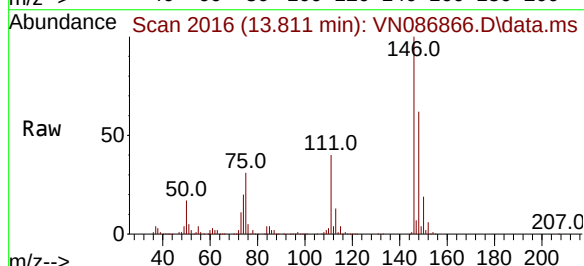
Tgt Ion:146 Resp: 483003

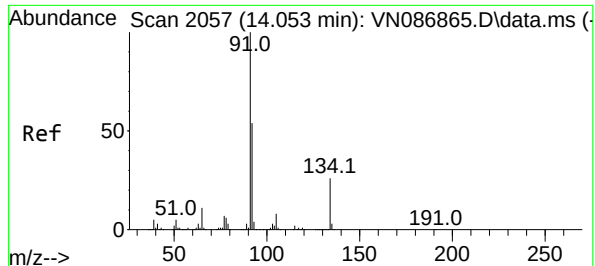
Ion Ratio Lower Upper

146 100

111 39.3 19.9 59.7

148 63.0 31.8 95.4





#89

n-Butylbenzene

Concen: 99.598 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC100

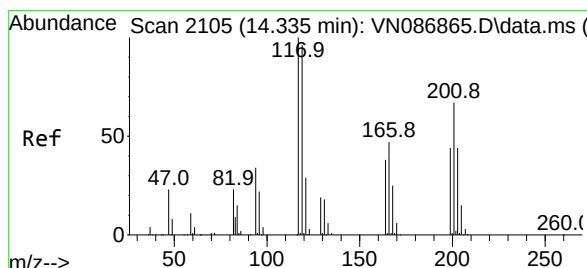
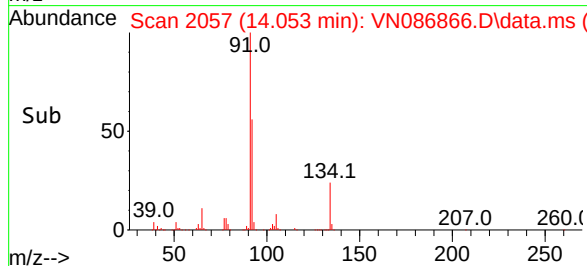
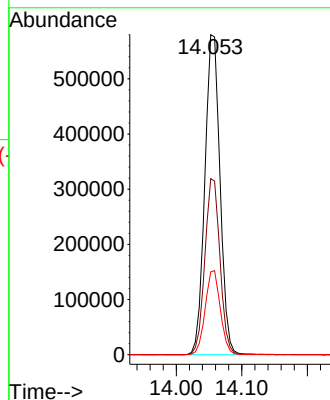
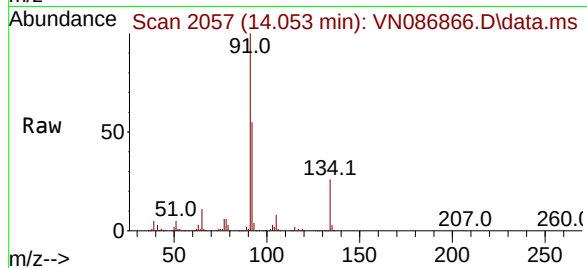
Tgt Ion:	91	Resp:	93791
Ion	Ratio	Lower	Upper
91	100		
92	54.7	27.5	82.4
134	26.2	13.0	39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 103.019 ug/l

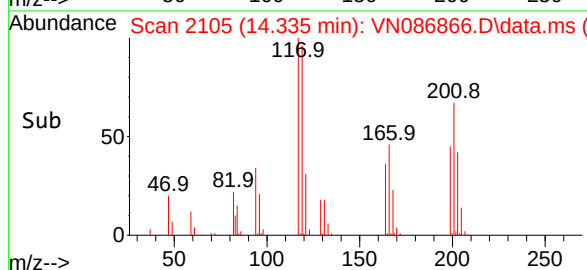
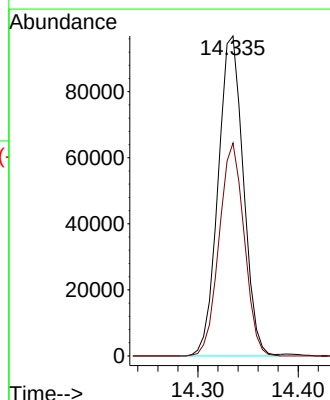
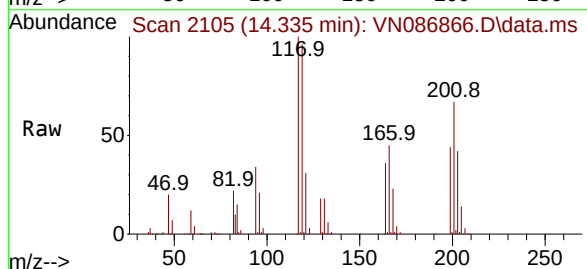
RT: 14.335 min Scan# 2105

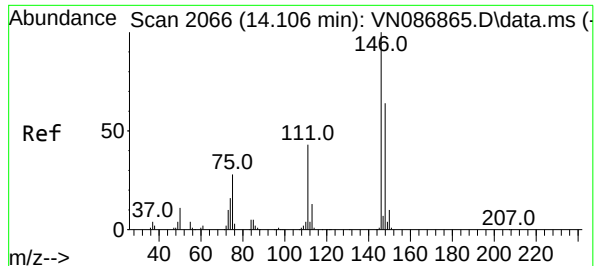
Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Tgt Ion:	117	Resp:	169772
Ion	Ratio	Lower	Upper
117	100		
201	65.8	33.2	99.6





#91

1,2-Dichlorobenzene

Concen: 98.602 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 458049

Ion Ratio Lower Upper

146 100

111 43.5 21.6 64.6

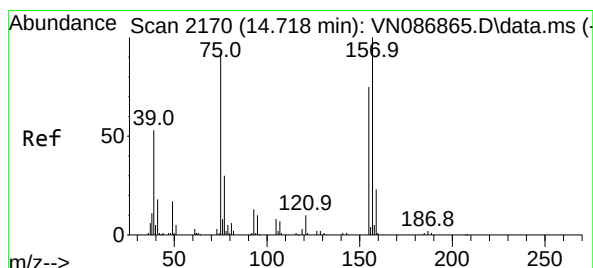
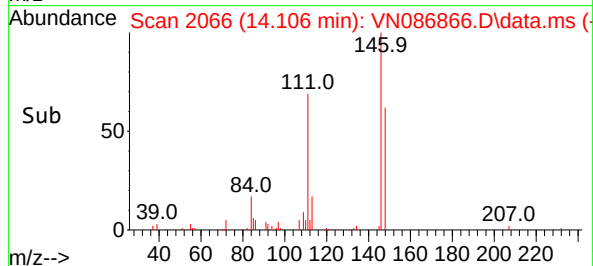
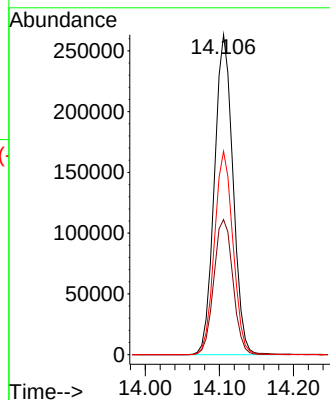
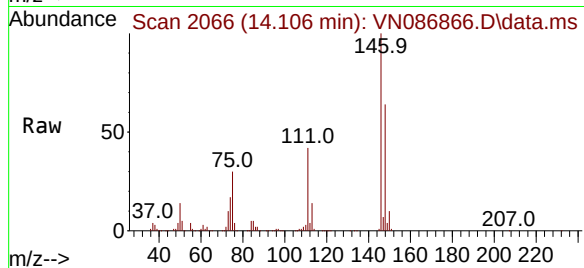
148 63.5 31.7 95.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#92

1,2-Dibromo-3-Chloropropane

Concen: 95.877 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

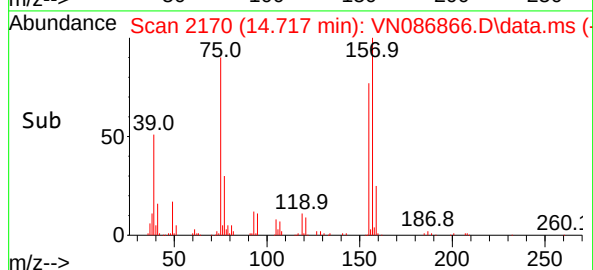
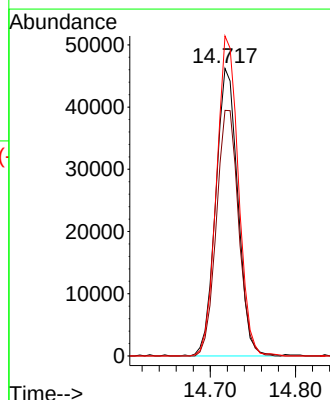
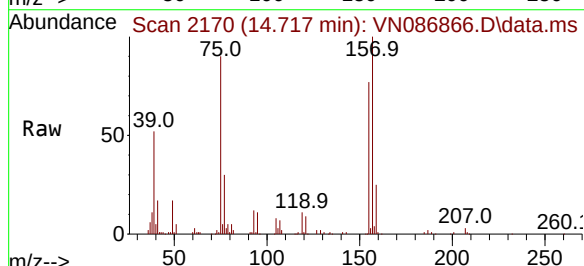
Tgt Ion: 75 Resp: 83243

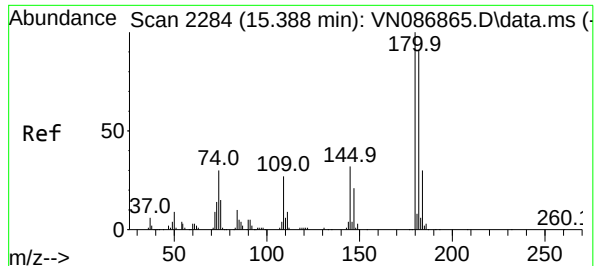
Ion Ratio Lower Upper

75 100

155 86.1 41.1 123.4

157 109.8 52.7 158.1





#93

1,2,4-Trichlorobenzene

Concen: 100.751 ug/l

RT: 15.394 min Scan# 2284

Delta R.T. 0.006 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC100

Tgt Ion:180 Resp: 298870

Ion Ratio Lower Upper

180 100

182 94.6 46.9 140.7

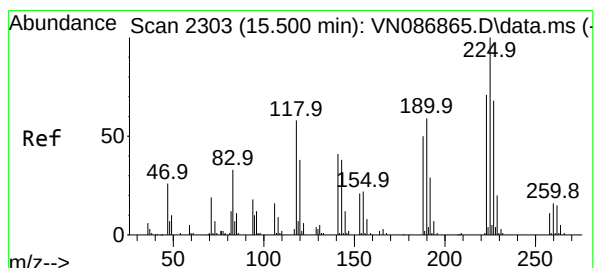
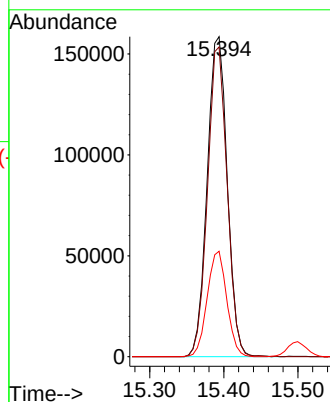
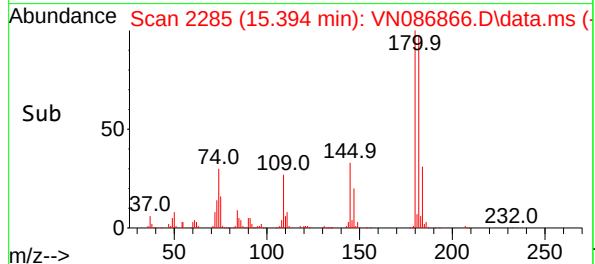
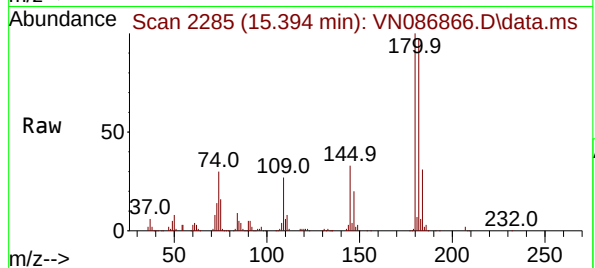
145 32.2 16.0 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#94

Hexachlorobutadiene

Concen: 101.789 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN086866.D

Acq: 06 Jun 2025 14:26

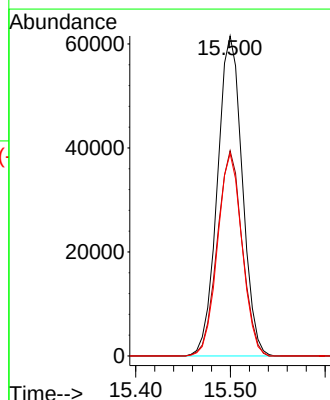
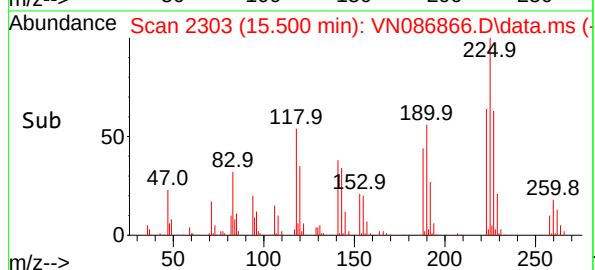
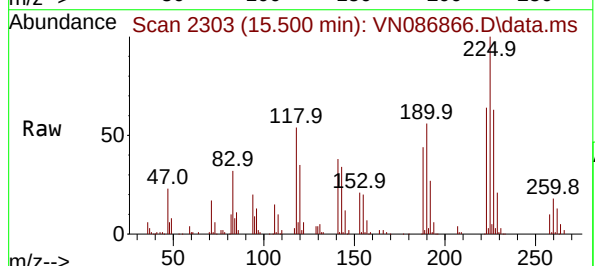
Tgt Ion:225 Resp: 112496

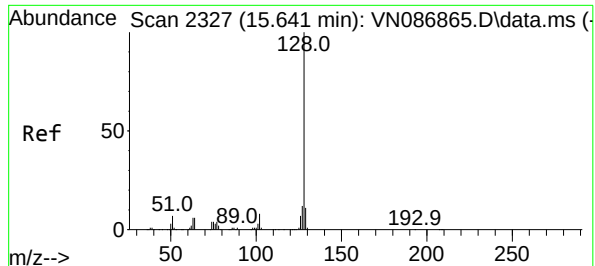
Ion Ratio Lower Upper

225 100

223 64.2 33.5 100.4

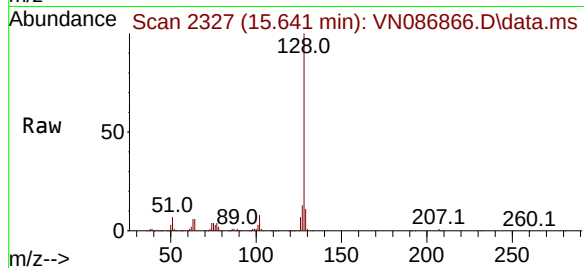
227 62.1 31.1 93.5





#95
Naphthalene
Concen: 102.290 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

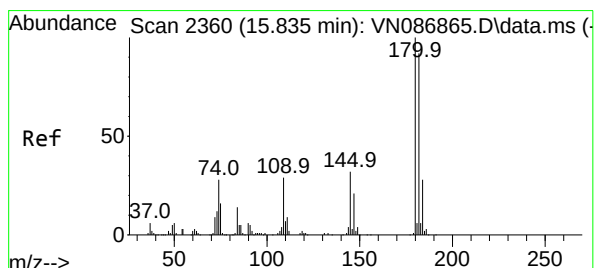
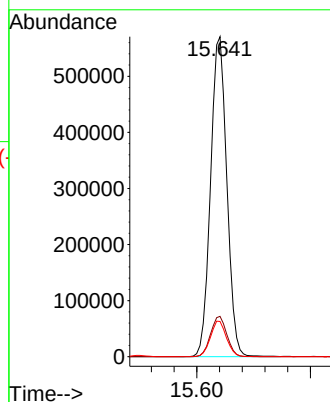
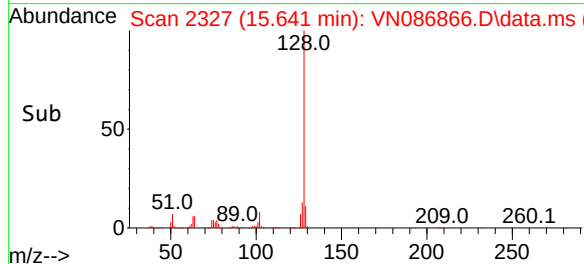
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100



Tgt Ion:128 Resp: 1129434
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.2
129 11.0 8.8 13.2

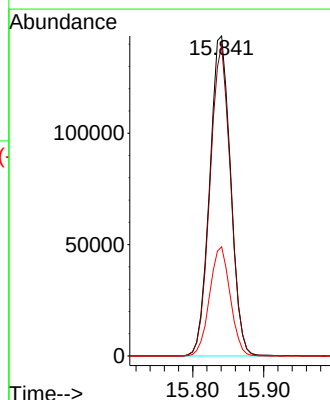
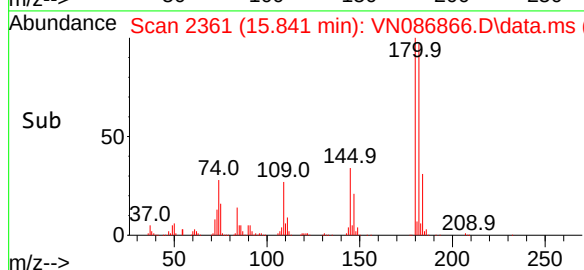
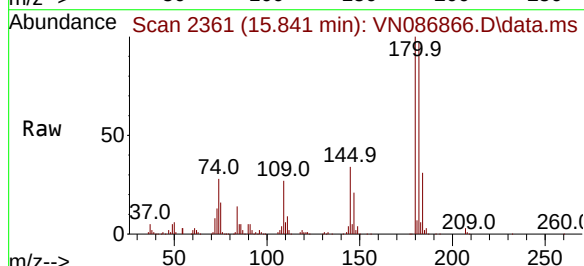
Manual Integrations
APPROVED

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



#96
1,2,3-Trichlorobenzene
Concen: 99.796 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086866.D
Acq: 06 Jun 2025 14:26

Tgt Ion:180 Resp: 294127
Ion Ratio Lower Upper
180 100
182 95.3 47.0 141.0
145 33.5 16.6 49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086867.D
 Acq On : 06 Jun 2025 14:49
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Quant Time: Jun 07 01:59:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 01:51:02 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.229	168	172832	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	307937	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.864	117	278552	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	136630	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	389297	168.233	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 336.460%#			
35) Dibromofluoromethane	8.176	113	324474	177.803	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 355.600%#			
50) Toluene-d8	10.570	98	1272348	176.120	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 352.240%#			
62) 4-Bromofluorobenzene	12.847	95	481421	179.364	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 358.720%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.153	85	262143	152.122	ug/l	100
3) Chloromethane	2.394	50	304558	136.865	ug/l	100
4) Vinyl Chloride	2.553	62	335834	146.303	ug/l	100
5) Bromomethane	2.965	94	190786	148.522	ug/l	98
6) Chloroethane	3.136	64	208568	140.664	ug/l	96
7) Trichlorofluoromethane	3.518	101	427871	142.666	ug/l	100
8) Diethyl Ether	3.983	74	191555	146.593	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.388	101	269810	143.192	ug/l	100
10) Methyl Iodide	4.606	142	352020	144.118	ug/l	99
11) Tert butyl alcohol	5.553	59	430866	686.213	ug/l	100
12) 1,1-Dichloroethene	4.353	96	273388	142.118	ug/l	98
13) Acrolein	4.194	56	171625	863.526	ug/l	99
14) Allyl chloride	5.035	41	490852	153.858	ug/l	92
15) Acrylonitrile	5.735	53	1048372	714.344	ug/l	99
16) Acetone	4.447	43	819041	667.435	ug/l	100
17) Carbon Disulfide	4.730	76	742788	139.594	ug/l	100
18) Methyl Acetate	5.041	43	523996	146.527	ug/l	100
19) Methyl tert-butyl Ether	5.818	73	998781	143.396	ug/l	99
20) Methylene Chloride	5.300	84	311597	135.628	ug/l	99
21) trans-1,2-Dichloroethene	5.806	96	290960	135.947	ug/l	97
22) Diisopropyl ether	6.688	45	947638	140.915	ug/l	98
23) Vinyl Acetate	6.618	43	3932872	692.189	ug/l	99
24) 1,1-Dichloroethane	6.582	63	540881	139.761	ug/l	99
25) 2-Butanone	7.494	43	1381940	692.809	ug/l	99
26) 2,2-Dichloropropane	7.500	77	450112	149.519	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	363398	141.974	ug/l	99
28) Bromochloromethane	7.824	49	290594	152.718	ug/l	98
29) Tetrahydrofuran	7.847	42	898159	691.211	ug/l	98
30) Chloroform	7.976	83	534038	138.179	ug/l	97
31) Cyclohexane	8.265	56	505795	134.766	ug/l	96
32) 1,1,1-Trichloroethane	8.176	97	462854	140.807	ug/l	99
36) 1,1-Dichloropropene	8.376	75	393166	144.584	ug/l	100
37) Ethyl Acetate	7.571	43	494000	142.706	ug/l	99
38) Carbon Tetrachloride	8.371	117	388595	145.557	ug/l	98
39) Methylcyclohexane	9.606	83	544437	146.136	ug/l	97
40) Benzene	8.612	78	1266139	142.388	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086867.D
 Acq On : 06 Jun 2025 14:49
 Operator : JC\MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 07 01:59:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M

Quant Title : SW846 8260

QLast Update : Sat Jun 07 01:51:02 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.788	41	276400	142.174	ug/l	98
42) 1,2-Dichloroethane	8.676	62	381516	141.455	ug/l	100
43) Isopropyl Acetate	8.694	43	780791	140.531	ug/l	99
44) Trichloroethene	9.359	130	302548	143.490	ug/l	96
45) 1,2-Dichloropropane	9.623	63	309047	142.856	ug/l	100
46) Dibromomethane	9.712	93	208461	145.074	ug/l	100
47) Bromodichloromethane	9.894	83	430011	145.449	ug/l	100
48) Methyl methacrylate	9.688	41	366967	143.502	ug/l	99
49) 1,4-Dioxane	9.712	88	138035	2967.116	ug/l #	100
51) 4-Methyl-2-Pentanone	10.447	43	2438311	728.995	ug/l	98
52) Toluene	10.635	92	793270	145.976	ug/l	100
53) t-1,3-Dichloropropene	10.841	75	489809	148.163	ug/l	97
54) cis-1,3-Dichloropropene	10.318	75	518092	146.469	ug/l	99
55) 1,1,2-Trichloroethane	11.017	97	298151	142.588	ug/l	99
56) Ethyl methacrylate	10.876	69	533912	160.311	ug/l	98
57) 1,3-Dichloropropane	11.165	76	516391	142.363	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.165	63	1869543	941.147	ug/l	99
59) 2-Hexanone	11.200	43	1735777	805.662	ug/l	99
60) Dibromochloromethane	11.365	129	322064	147.832	ug/l	98
61) 1,2-Dibromoethane	11.470	107	314606	146.790	ug/l	99
64) Tetrachloroethene	11.106	164	245122	139.048	ug/l	97
65) Chlorobenzene	11.894	112	860345	140.041	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	282739	143.171	ug/l	99
67) Ethyl Benzene	11.964	91	1517883	143.438	ug/l	98
68) m/p-Xylenes	12.070	106	1175378	290.155	ug/l	99
69) o-Xylene	12.400	106	566301	145.966	ug/l	100
70) Styrene	12.411	104	972318	146.459	ug/l	100
71) Bromoform	12.582	173	223200	152.538	ug/l #	99
73) Isopropylbenzene	12.694	105	1453651	146.042	ug/l	100
74) N-amyl acetate	12.500	43	543747	164.596	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.941	83	474426	140.693	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	468041m	143.665	ug/l	
77) Bromobenzene	12.982	156	335734	147.077	ug/l	98
78) n-propylbenzene	13.035	91	1769694	146.301	ug/l	99
79) 2-Chlorotoluene	13.123	91	1046916	144.317	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	1210325	147.279	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.735	75	216253	153.277	ug/l	95
82) 4-Chlorotoluene	13.223	91	1063581	144.900	ug/l	100
83) tert-Butylbenzene	13.435	119	1093406	145.352	ug/l	100
84) 1,2,4-Trimethylbenzene	13.482	105	1216529	147.626	ug/l	100
85) sec-Butylbenzene	13.617	105	1582762	144.885	ug/l	99
86) p-Isopropyltoluene	13.729	119	1322780	146.482	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	641966	142.939	ug/l	100
88) 1,4-Dichlorobenzene	13.811	146	646188	141.124	ug/l	99
89) n-Butylbenzene	14.053	91	1251819	143.117	ug/l	100
90) Hexachloroethane	14.335	117	230195	150.387	ug/l	98
91) 1,2-Dichlorobenzene	14.105	146	613177	142.108	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	110677	137.242	ug/l	96
93) 1,2,4-Trichlorobenzene	15.394	180	407621	147.940	ug/l	99
94) Hexachlorobutadiene	15.500	225	151172	147.264	ug/l	98
95) Naphthalene	15.641	128	1545981	150.743	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	404450	147.743	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086867.D
Acq On : 06 Jun 2025 14:49
Operator : JC\MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

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

Quant Time: Jun 07 01:59:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

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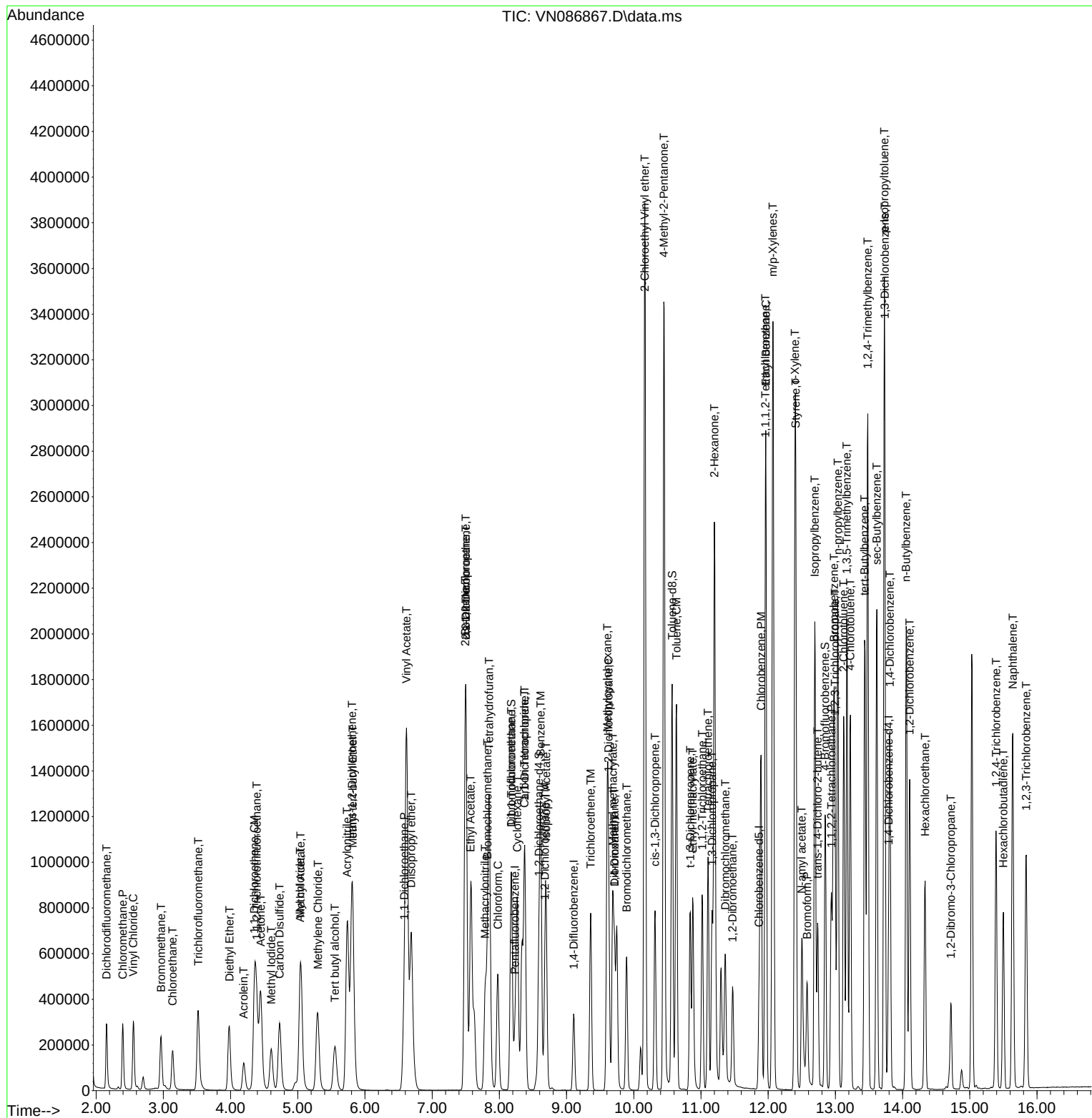
(#) = qualifier out of range (m) = manual integration (+) = signals summed

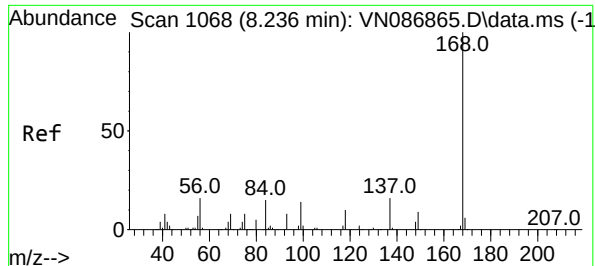
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Quant Time: Jun 07 01:59:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 01:51:02 2025
Response via : Initial Calibration

Manual Integrations

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





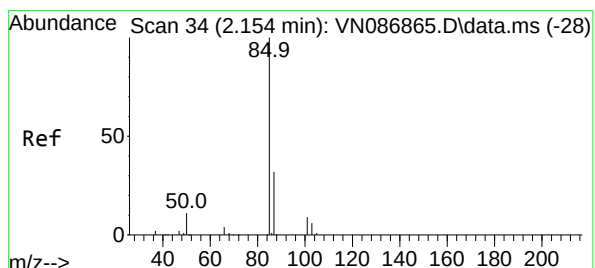
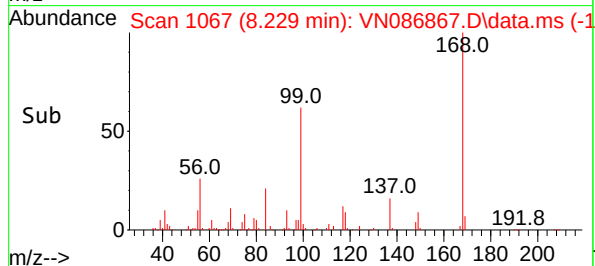
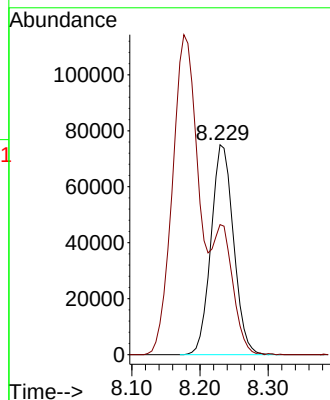
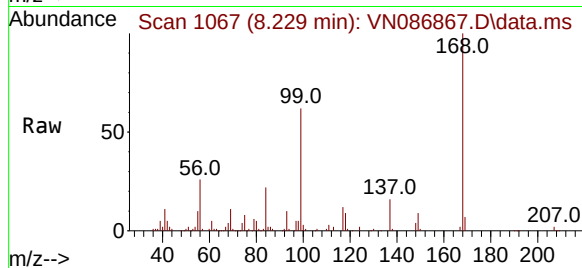
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1068
Delta R.T. -0.007 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 17283
Ion Ratio Lower Upper
168 100
99 61.8 49.1 73.7

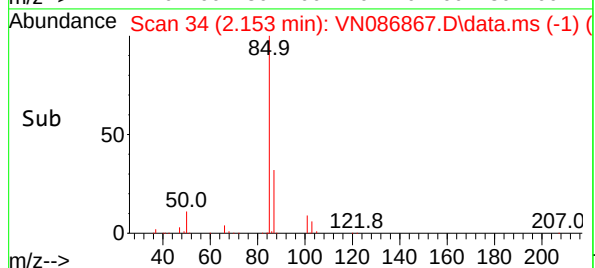
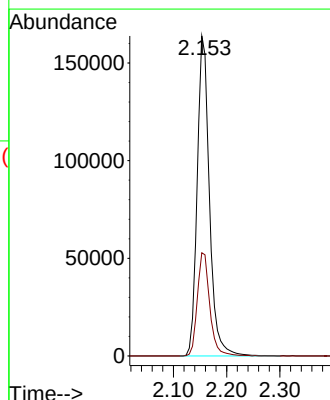
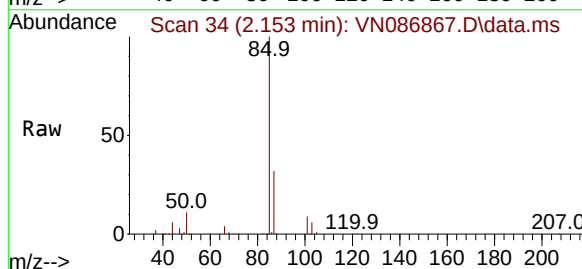
Manual Integrations
APPROVED

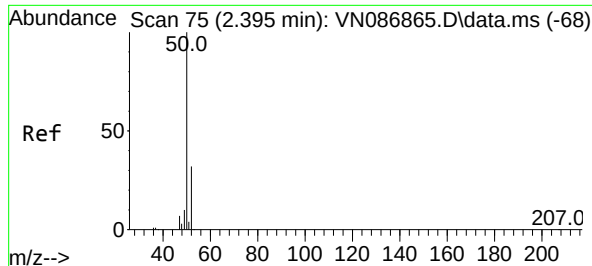
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 152.122 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

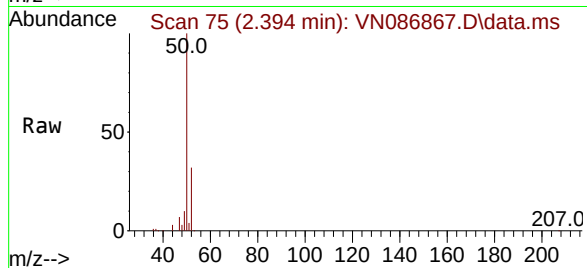
Tgt Ion: 85 Resp: 262143
Ion Ratio Lower Upper
85 100
87 32.3 16.2 48.6





#3
Chloromethane
Concen: 136.865 ug/l
RT: 2.394 min Scan# 75
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

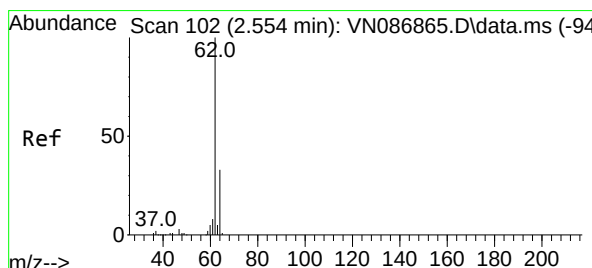
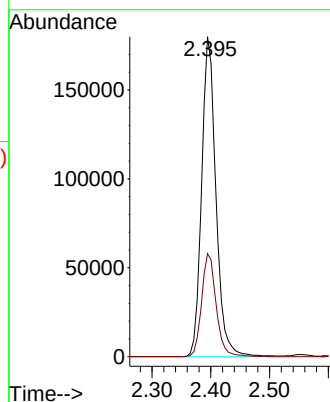
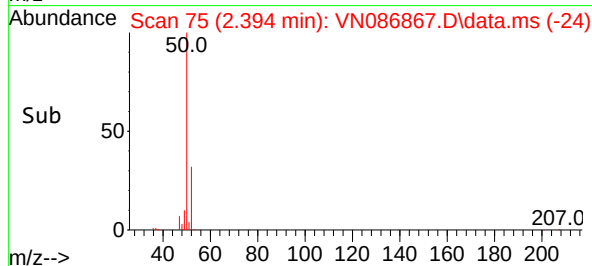
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



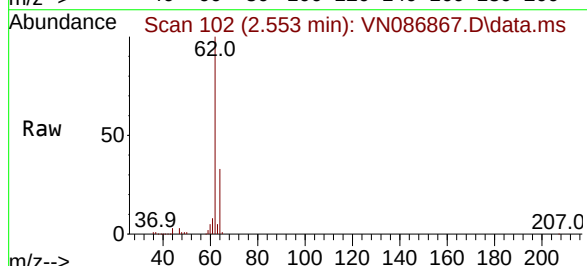
Tgt Ion: 50 Resp: 304558
Ion Ratio Lower Upper
50 100
52 32.2 25.7 38.5

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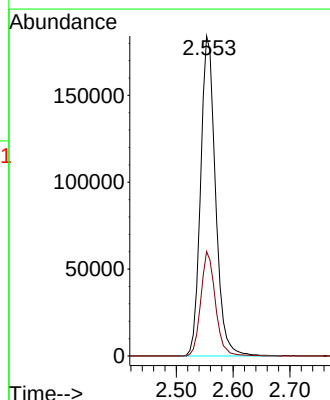
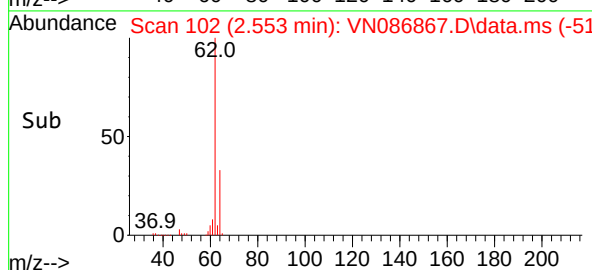
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

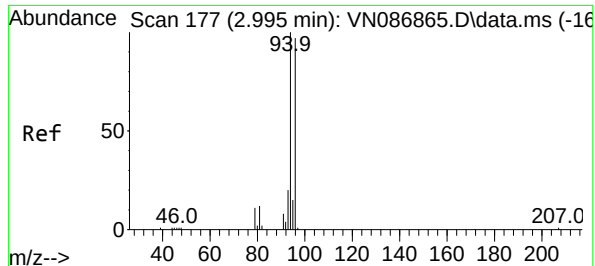


#4
Vinyl Chloride
Concen: 146.303 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49



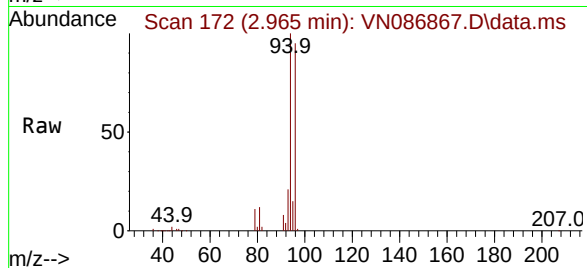
Tgt Ion: 62 Resp: 335834
Ion Ratio Lower Upper
62 100
64 32.6 26.0 39.0





#5
Bromomethane
Concen: 148.522 ug/l
RT: 2.965 min Scan# 11
Delta R.T. -0.030 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

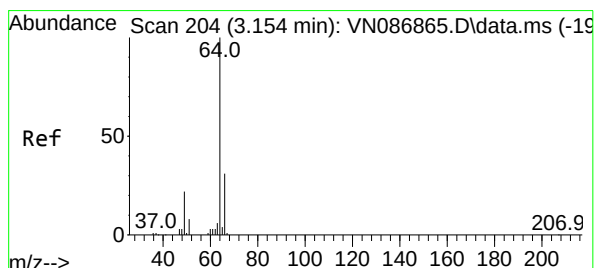
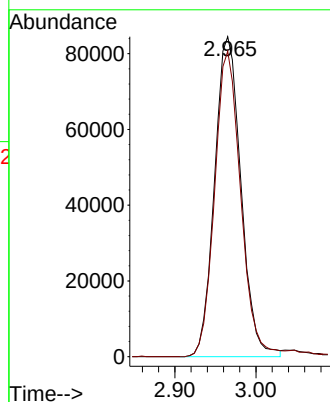
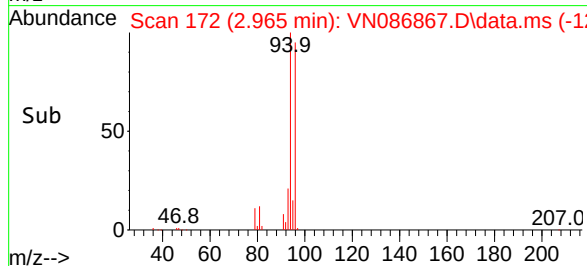
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion: 94 Resp: 190780
Ion Ratio Lower Upper
94 100
96 95.5 77.9 116.9

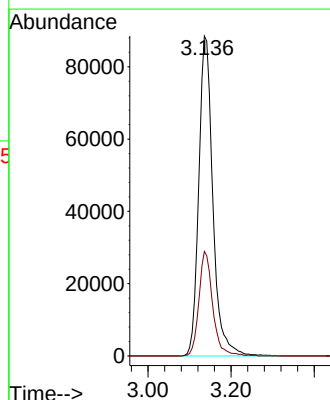
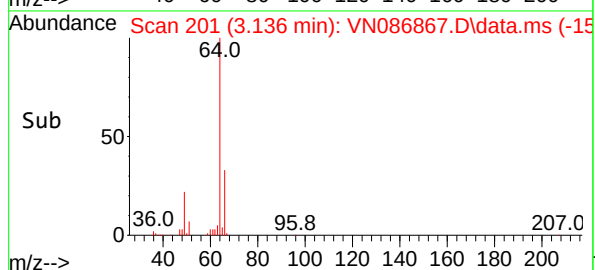
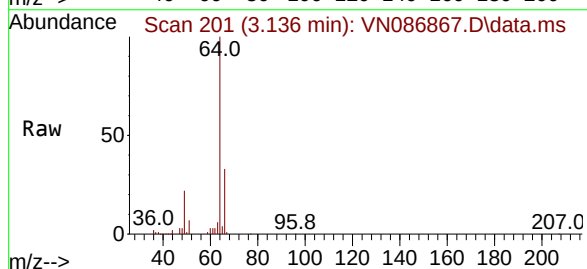
Manual Integrations
APPROVED

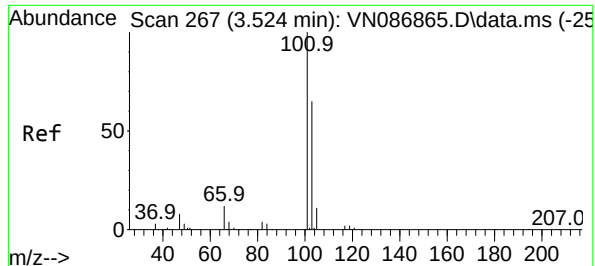
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#6
Chloroethane
Concen: 140.664 ug/l
RT: 3.136 min Scan# 201
Delta R.T. -0.018 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 64 Resp: 208568
Ion Ratio Lower Upper
64 100
66 32.7 24.6 36.8





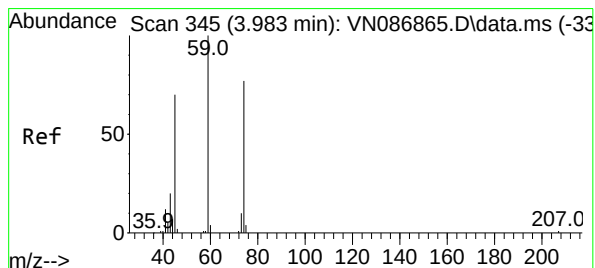
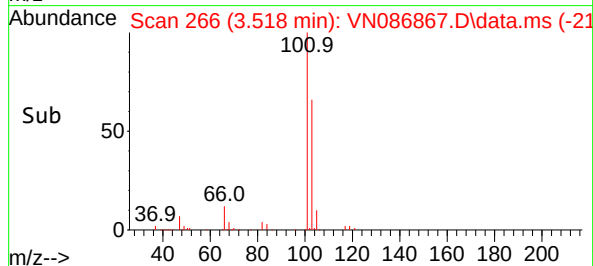
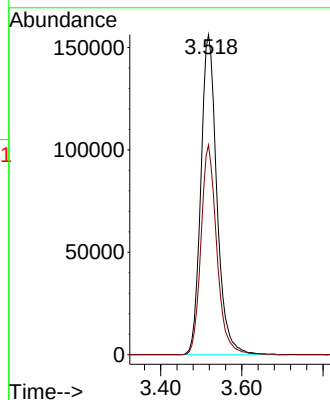
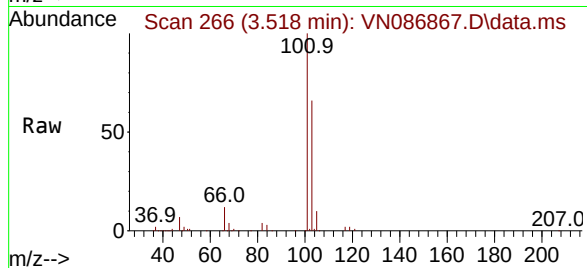
#7
Trichlorofluoromethane
Concen: 142.666 ug/l
RT: 3.518 min Scan# 266
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 42787
Ion Ratio Lower Upper
101 100
103 65.5 52.2 78.2

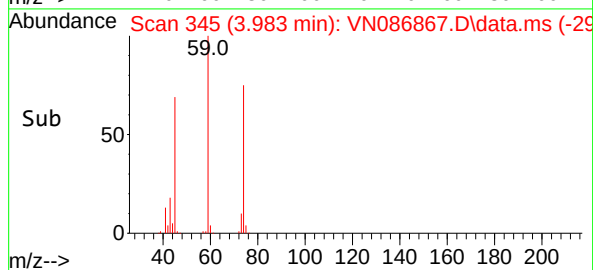
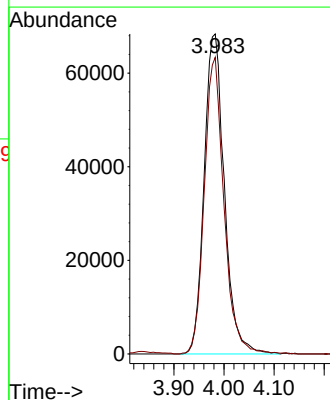
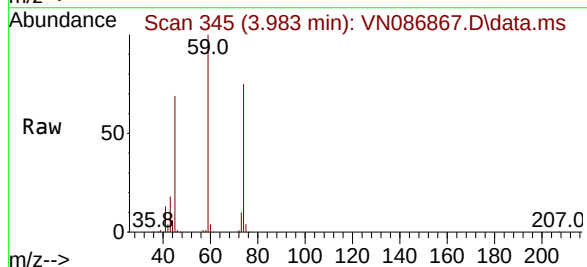
Manual Integrations
APPROVED

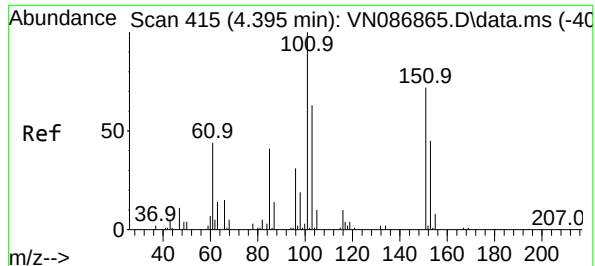
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#8
Diethyl Ether
Concen: 146.593 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 74 Resp: 191555
Ion Ratio Lower Upper
74 100
45 90.3 45.5 136.5





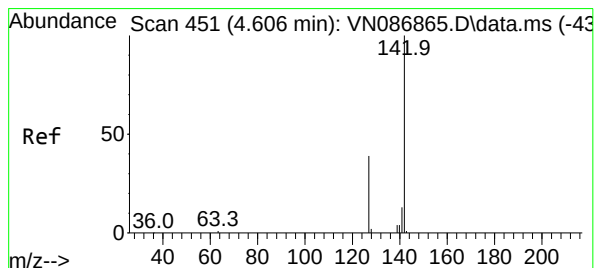
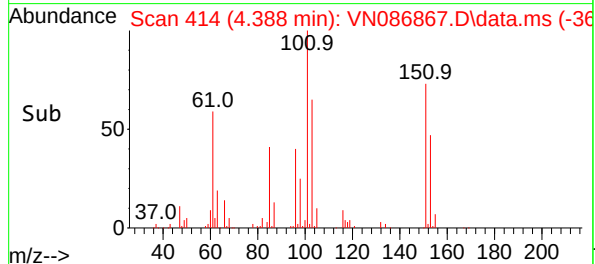
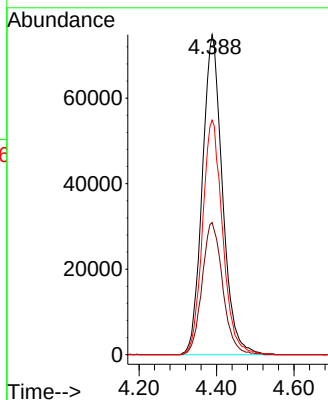
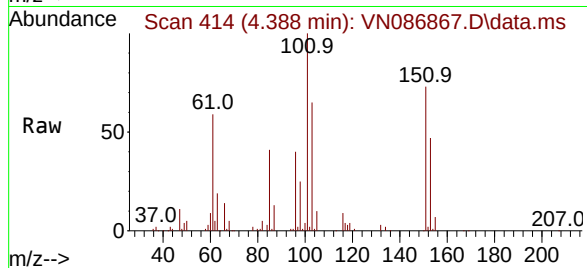
#9
1,1,2-Trichlorotrifluoroethane
Concen: 143.192 ug/l
RT: 4.388 min Scan# 415
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 269810
Ion Ratio Lower Upper
101 100
85 42.3 33.8 50.8
151 73.5 58.7 88.1

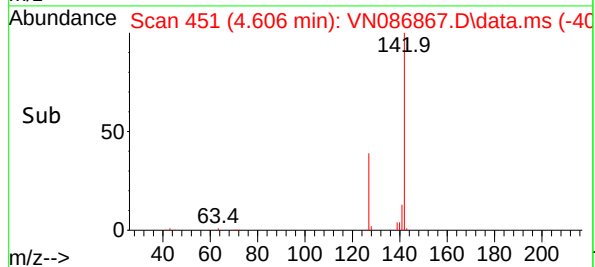
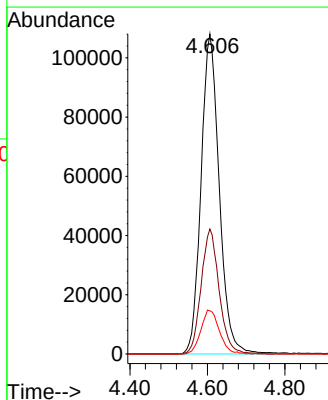
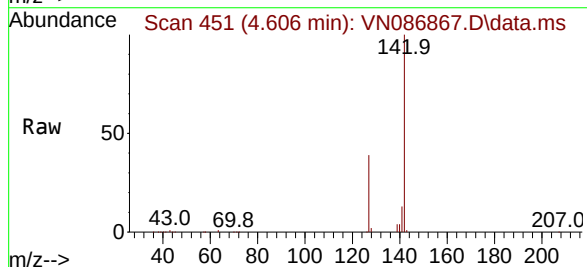
Manual Integrations
APPROVED

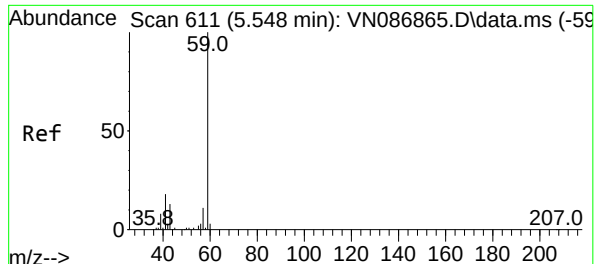
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#10
Methyl Iodide
Concen: 144.118 ug/l
RT: 4.606 min Scan# 451
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:142 Resp: 352020
Ion Ratio Lower Upper
142 100
127 39.1 30.9 46.3
141 13.5 10.4 15.6





#11

Tert butyl alcohol

Concen: 686.213 ug/l

RT: 5.553 min Scan# 611

Delta R.T. 0.006 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 59 Resp: 43086

Ion Ratio Lower Upper

59 100

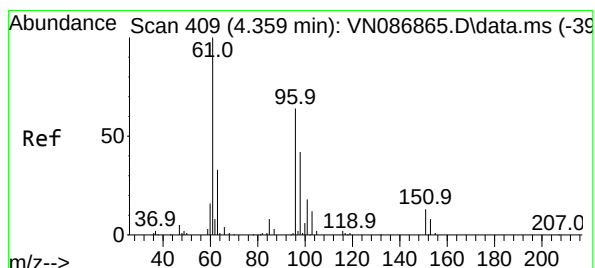
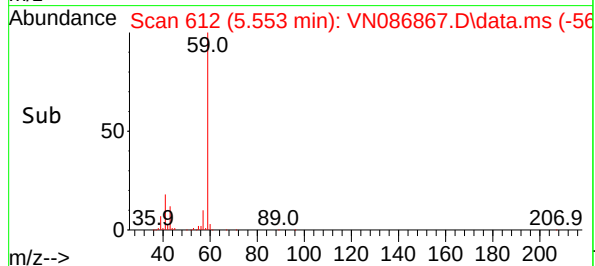
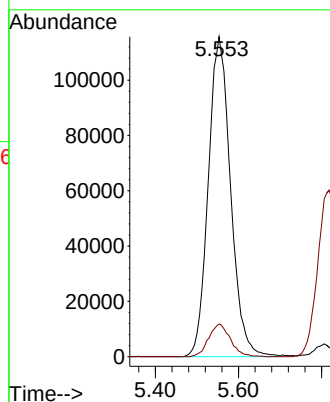
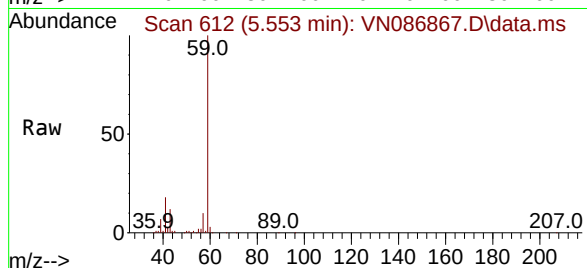
57 9.9 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#12

1,1-Dichloroethene

Concen: 142.118 ug/l

RT: 4.353 min Scan# 408

Delta R.T. -0.006 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

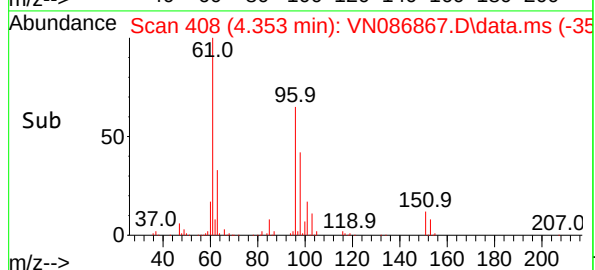
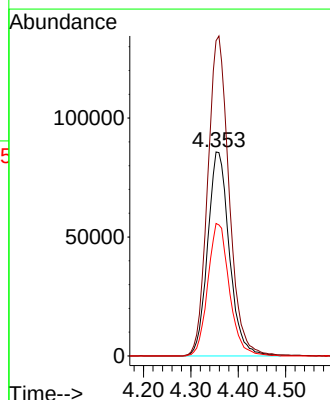
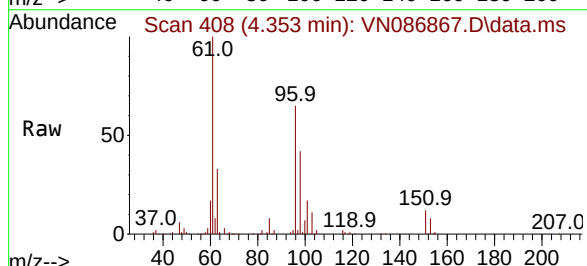
Tgt Ion: 96 Resp: 273388

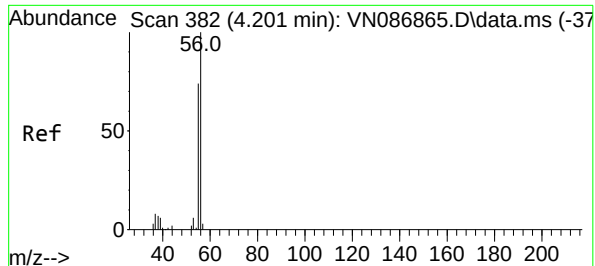
Ion Ratio Lower Upper

96 100

61 154.5 125.8 188.6

98 64.9 52.5 78.7





#13

Acrolein

Concen: 863.526 ug/l

RT: 4.194 min Scan# 381

Delta R.T. -0.006 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 56 Resp: 17162

Ion Ratio Lower Upper

56 100

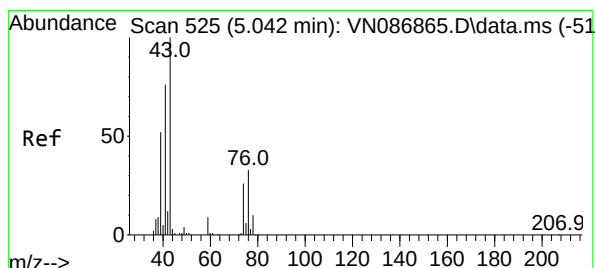
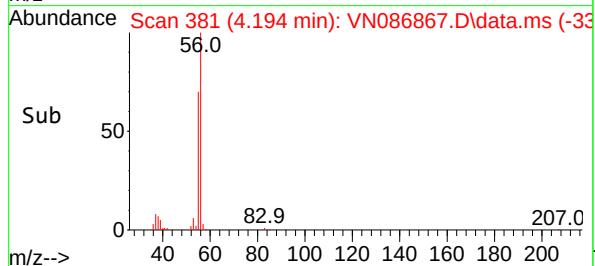
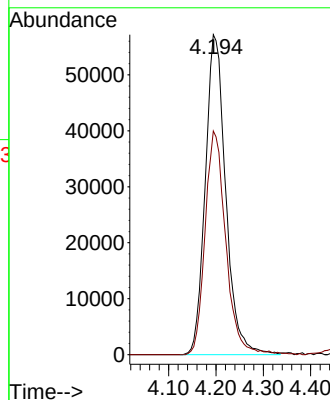
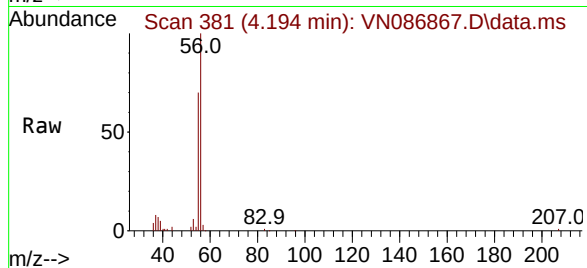
55 70.4 55.6 83.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 153.858 ug/l

RT: 5.035 min Scan# 524

Delta R.T. -0.006 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

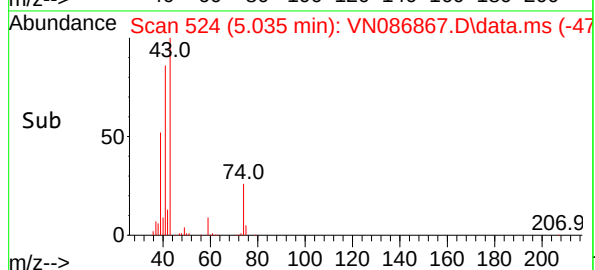
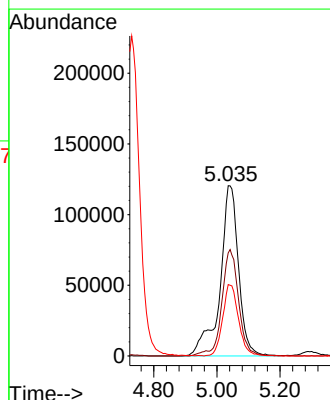
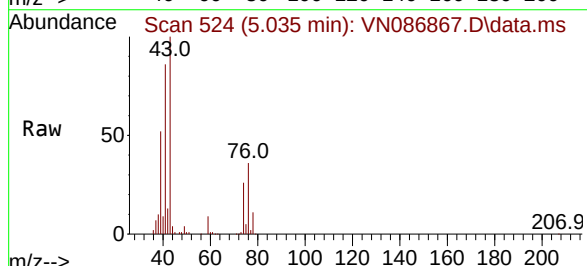
Tgt Ion: 41 Resp: 490852

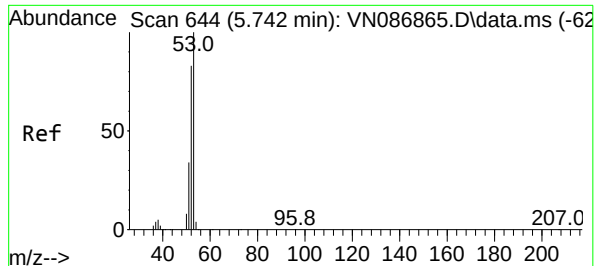
Ion Ratio Lower Upper

41 100

39 56.4 51.3 76.9

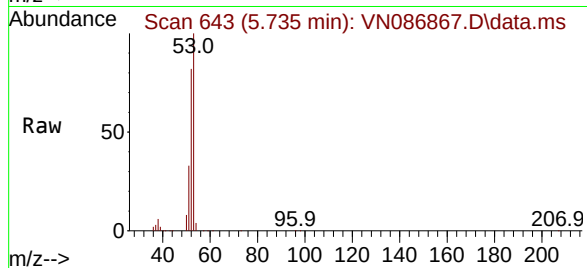
76 35.7 31.4 47.0





#15
Acrylonitrile
Concen: 714.344 ug/l
RT: 5.735 min Scan# 644
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

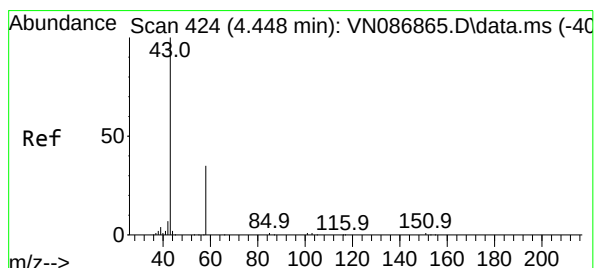
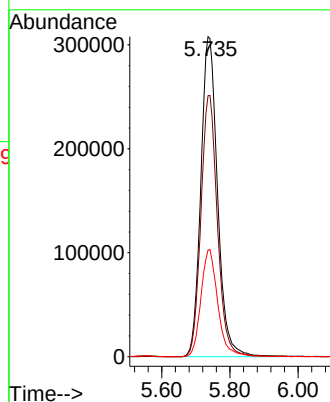
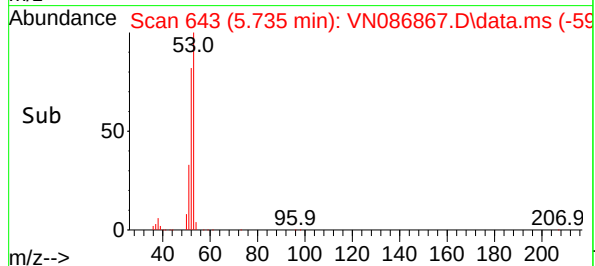
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion: 53 Resp: 1048372
Ion Ratio Lower Upper
53 100
52 80.7 65.0 97.6
51 33.8 27.2 40.8

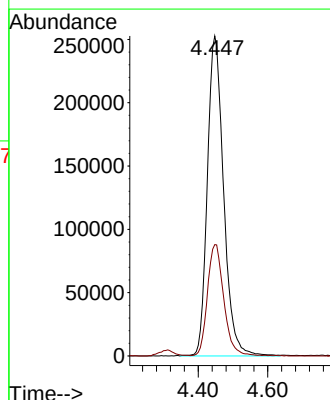
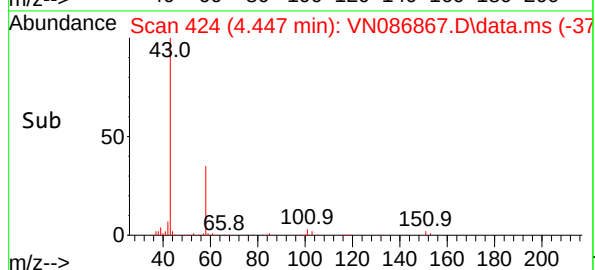
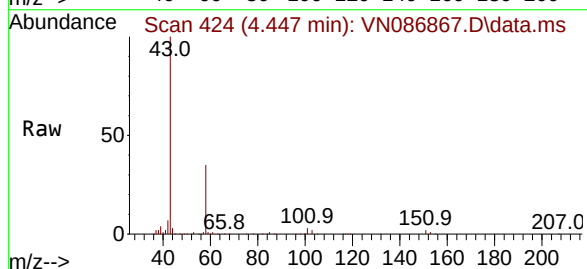
Manual Integrations
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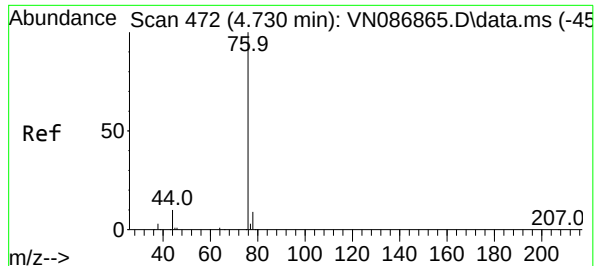
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#16
Acetone
Concen: 667.435 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 43 Resp: 819041
Ion Ratio Lower Upper
43 100
58 34.7 28.0 42.0





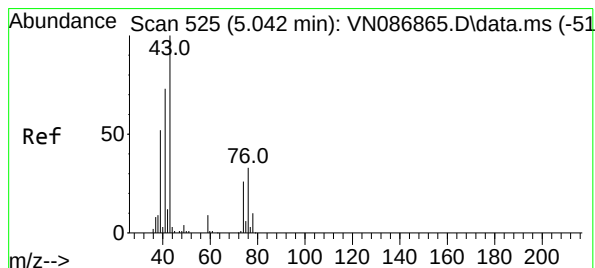
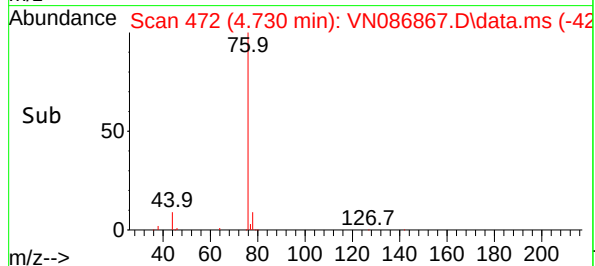
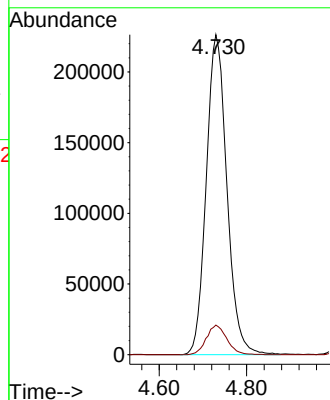
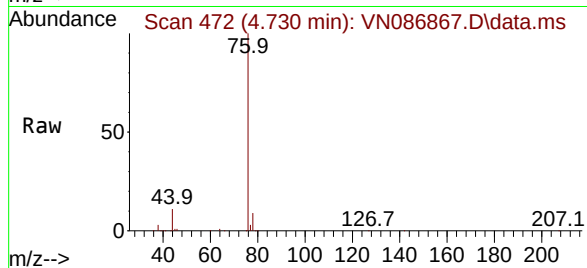
#17
Carbon Disulfide
Concen: 139.594 ug/l
RT: 4.730 min Scan# 472
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 76 Resp: 742788
Ion Ratio Lower Upper
76 100
78 9.3 7.3 10.9

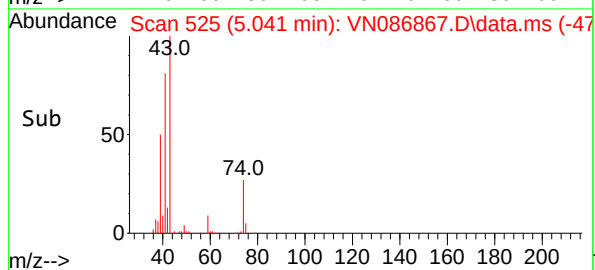
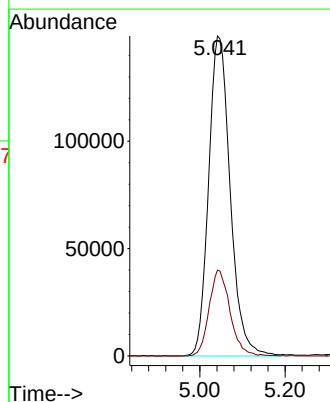
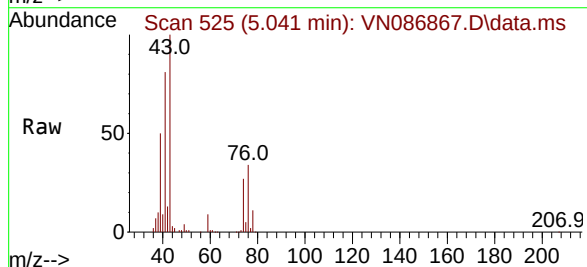
Manual Integrations
APPROVED

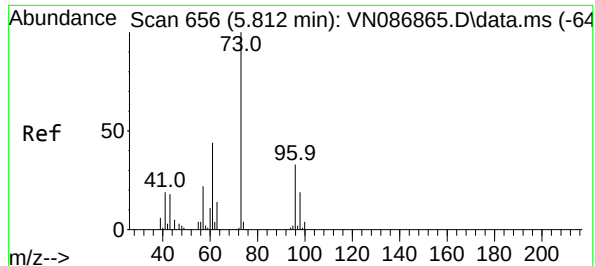
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#18
Methyl Acetate
Concen: 146.527 ug/l
RT: 5.041 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 43 Resp: 523996
Ion Ratio Lower Upper
43 100
74 26.1 20.7 31.1





#19

Methyl tert-butyl Ether

Concen: 143.396 ug/l

RT: 5.818 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 73 Resp: 99878

Ion Ratio Lower Upper

73 100

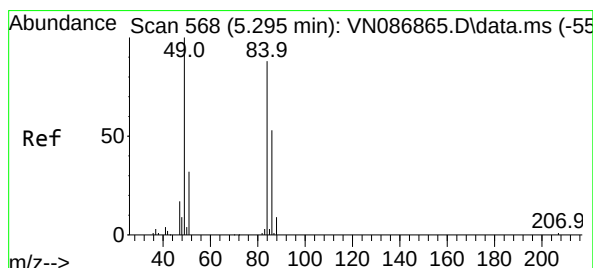
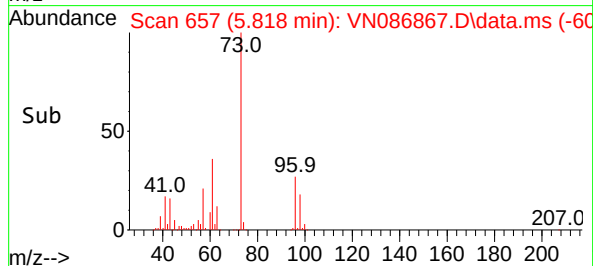
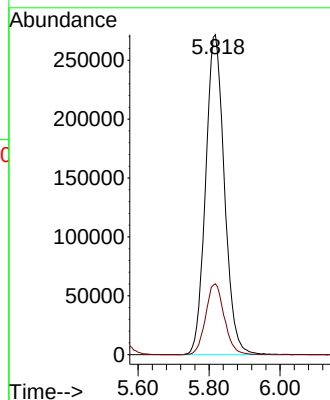
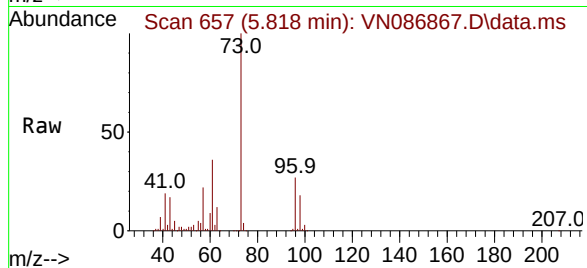
57 22.2 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#20

Methylene Chloride

Concen: 135.628 ug/l

RT: 5.300 min Scan# 569

Delta R.T. 0.006 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Tgt Ion: 84 Resp: 311597

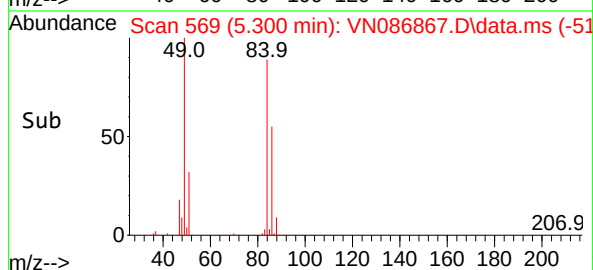
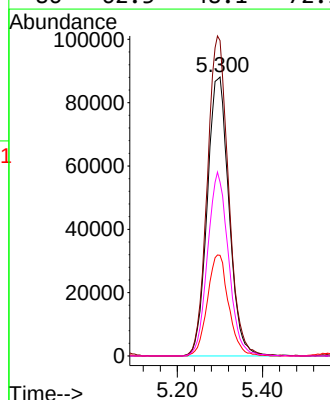
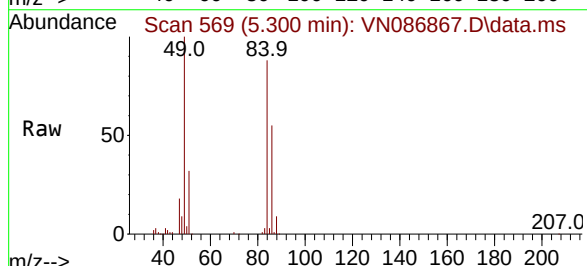
Ion Ratio Lower Upper

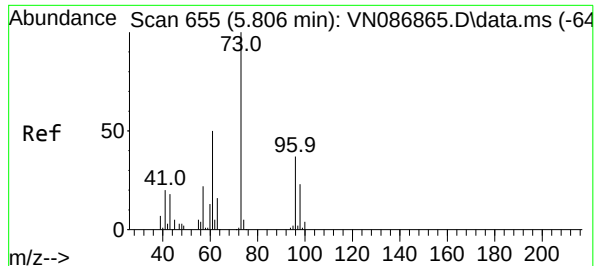
84 100

49 113.0 90.5 135.7

51 36.1 28.5 42.7

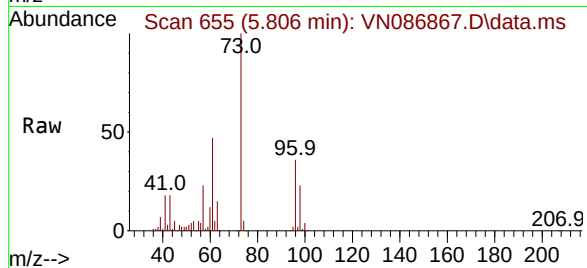
86 62.3 48.1 72.1





#21
trans-1,2-Dichloroethene
Concen: 135.947 ug/l
RT: 5.806 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

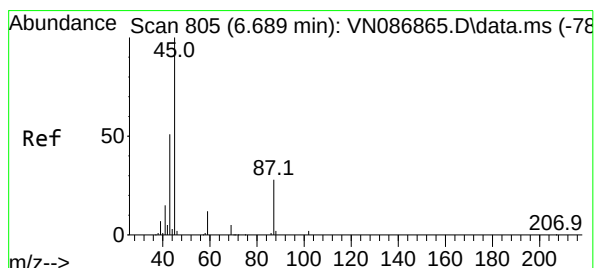
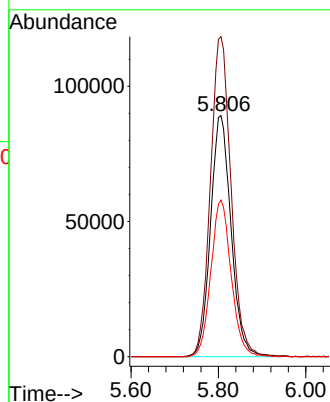
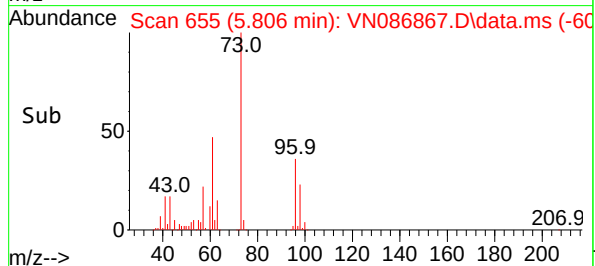
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion: 96 Resp: 290960
Ion Ratio Lower Upper
96 100
61 132.7 109.2 163.8
98 65.0 49.8 74.8

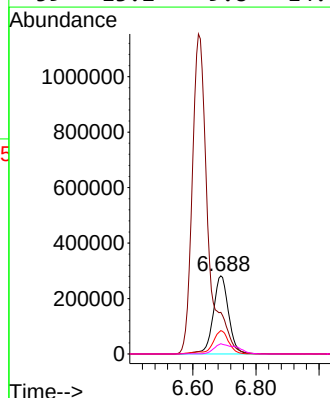
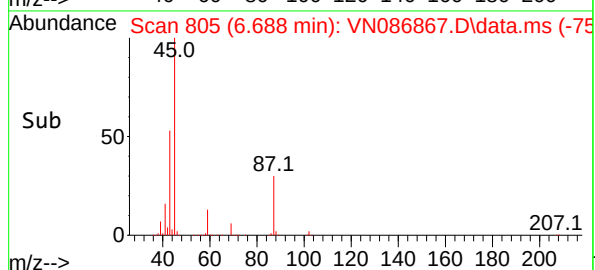
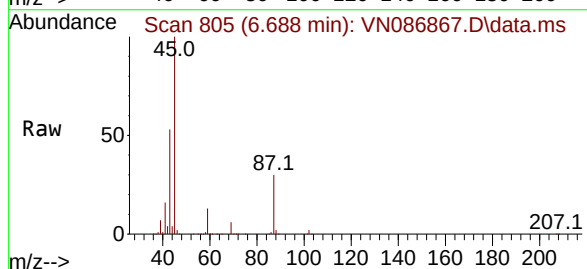
Manual Integrations
APPROVED

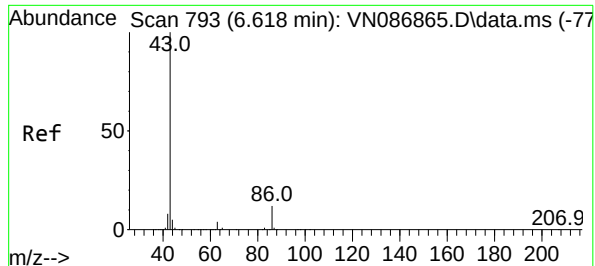
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#22
Diisopropyl ether
Concen: 140.915 ug/l
RT: 6.688 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 45 Resp: 947638
Ion Ratio Lower Upper
45 100
43 53.1 41.9 62.9
87 29.9 22.4 33.6
59 13.2 9.8 14.6





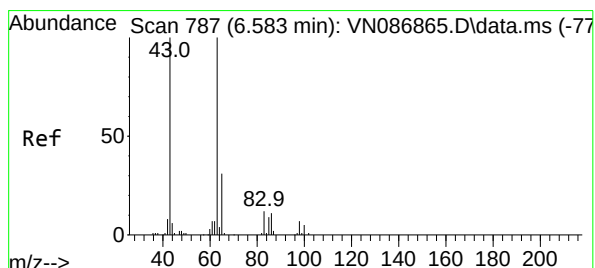
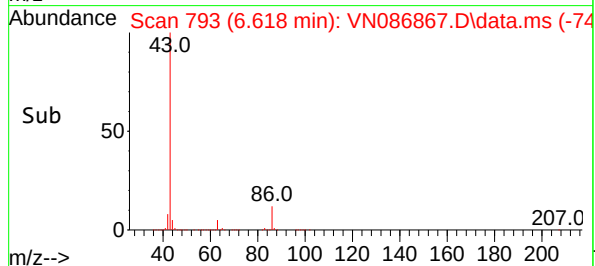
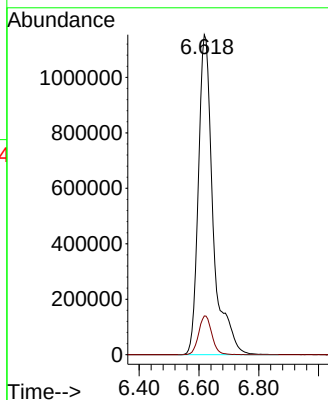
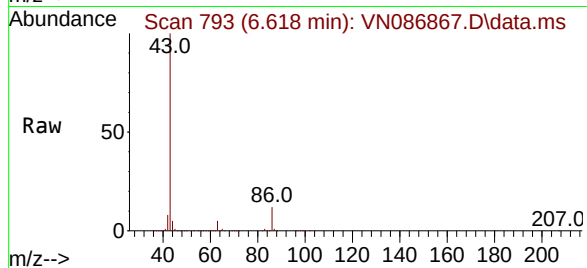
#23
Vinyl Acetate
Concen: 692.189 ug/l
RT: 6.618 min Scan# 793
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 393287
Ion Ratio Lower Upper
43 100
86 12.1 9.5 14.3

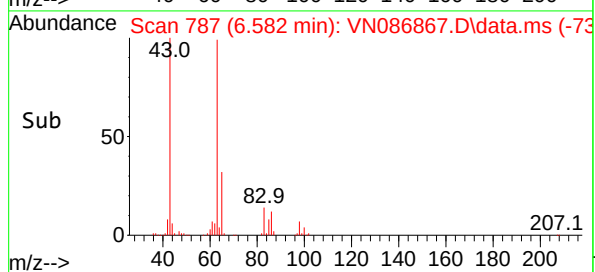
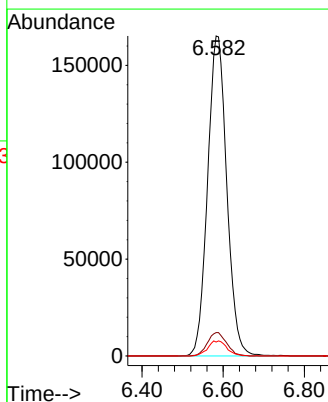
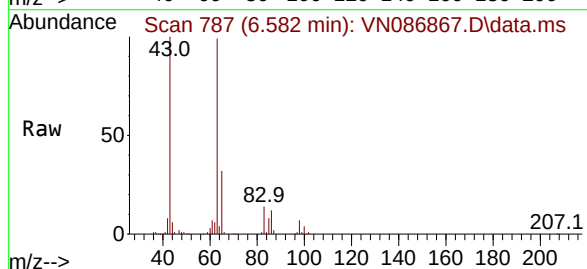
Manual Integrations
APPROVED

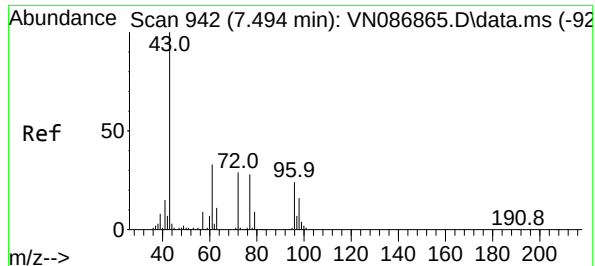
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#24
1,1-Dichloroethane
Concen: 139.761 ug/l
RT: 6.582 min Scan# 787
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 63 Resp: 540881
Ion Ratio Lower Upper
63 100
98 7.3 3.6 10.8
100 4.4 2.6 7.8





#25

2-Butanone

Concen: 692.809 ug/l

RT: 7.494 min Scan# 942

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 1381940

Ion Ratio Lower Upper

43 100

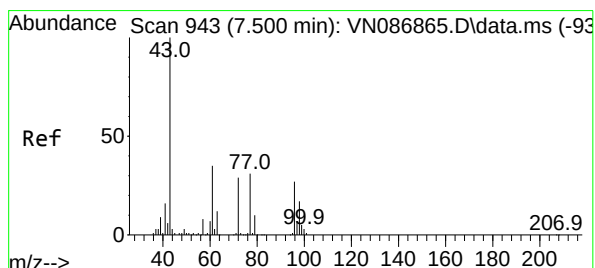
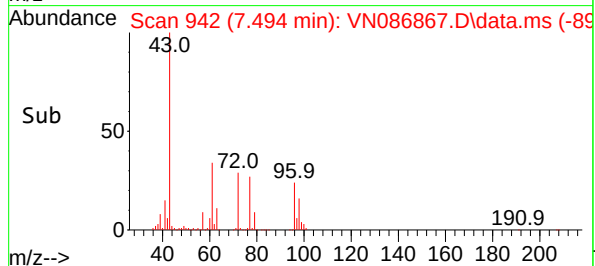
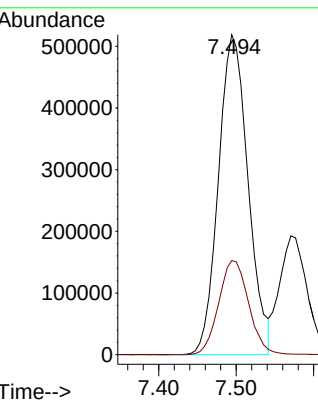
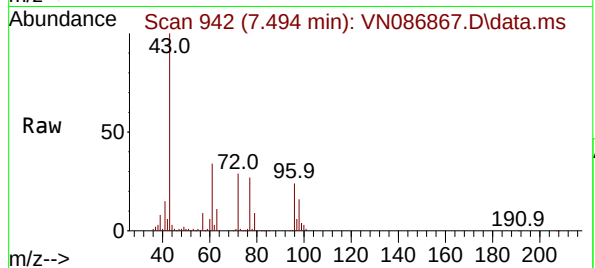
72 29.4 23.0 34.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 149.519 ug/l

RT: 7.500 min Scan# 943

Delta R.T. -0.000 min

Lab File: VN086867.D

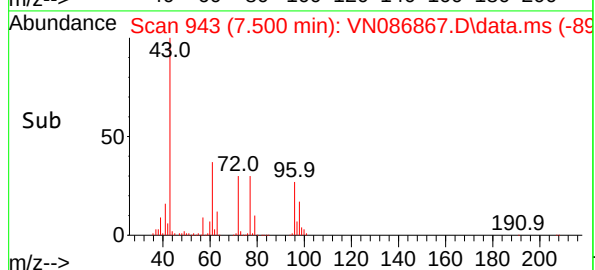
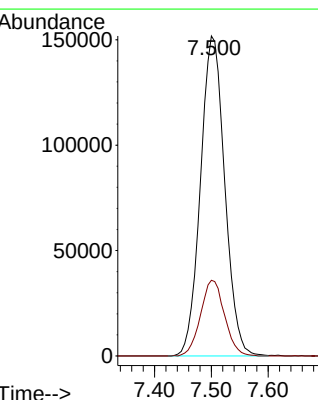
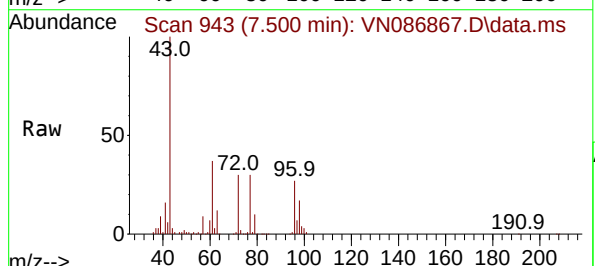
Acq: 06 Jun 2025 14:49

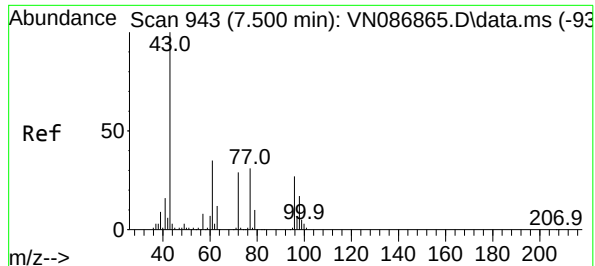
Tgt Ion: 77 Resp: 450112

Ion Ratio Lower Upper

77 100

97 23.4 11.6 34.7





#27

cis-1,2-Dichloroethene

Concen: 141.974 ug/l

RT: 7.500 min Scan# 943

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

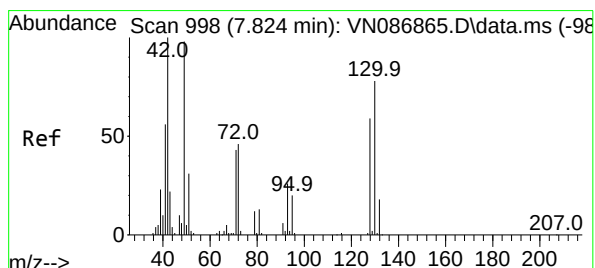
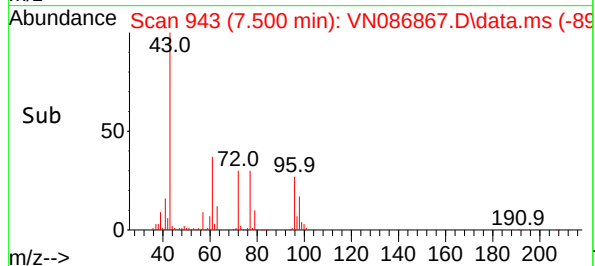
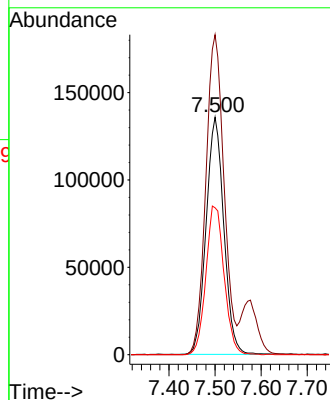
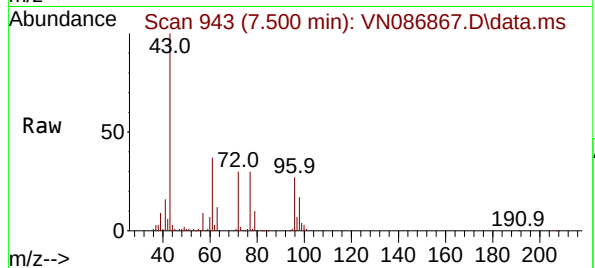
VSTDICC150

Tgt Ion:	96	Resp:	363398
Ion	Ratio	Lower	Upper
96	100		
61	138.0	0.0	278.0
98	64.5	0.0	128.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 152.718 ug/l

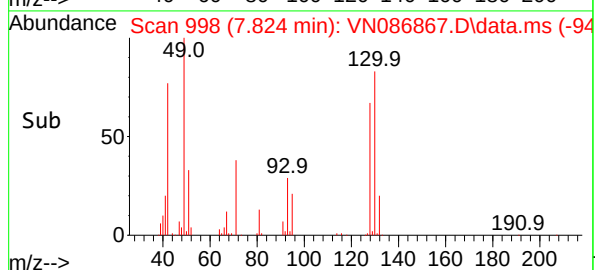
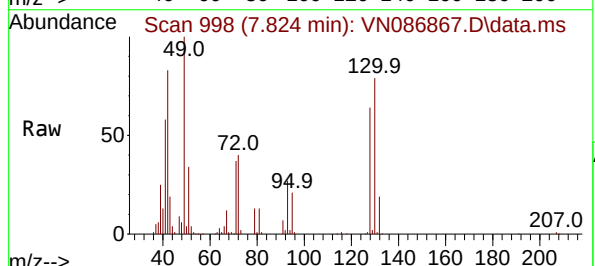
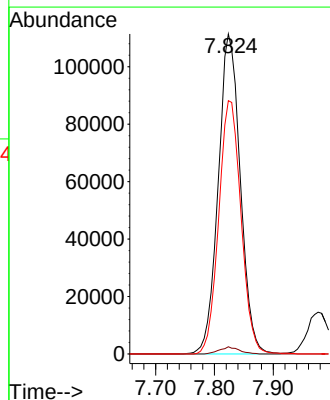
RT: 7.824 min Scan# 998

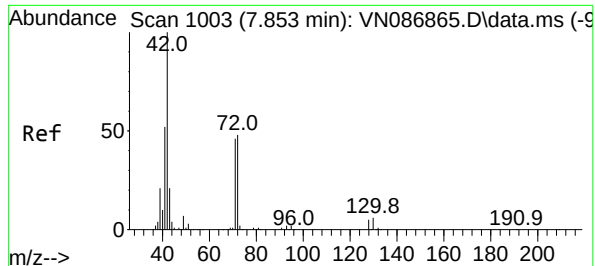
Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Tgt Ion:	49	Resp:	290594
Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.8
130	79.8	62.2	93.2





#29

Tetrahydrofuran

Concen: 691.211 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. -0.006 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

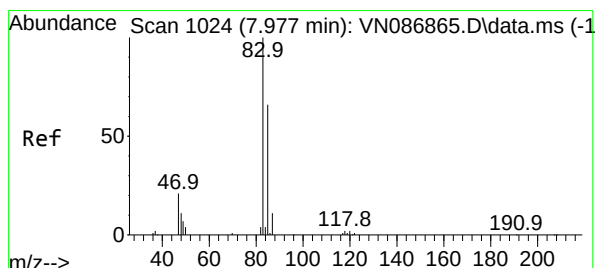
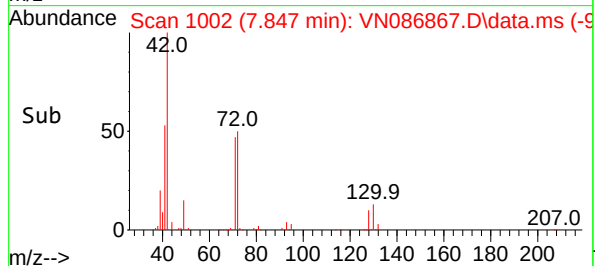
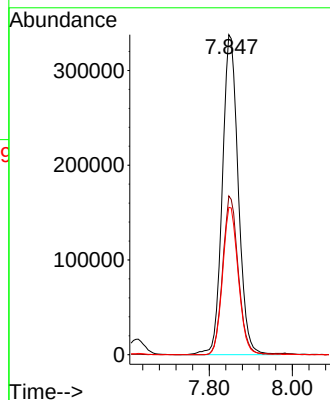
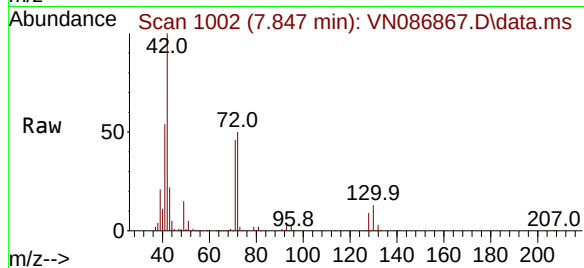
VSTDICC150

Tgt Ion:	42	Resp:	89815
Ion	Ratio	Lower	Upper
42	100		
72	48.5	37.8	56.6
71	45.4	35.6	53.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 138.179 ug/l

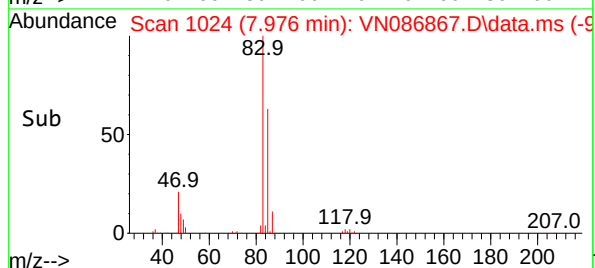
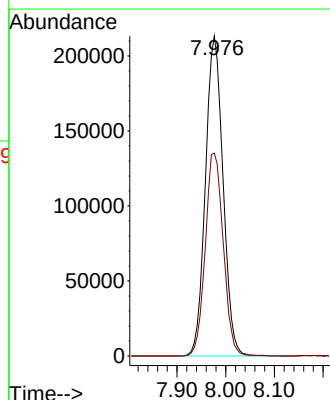
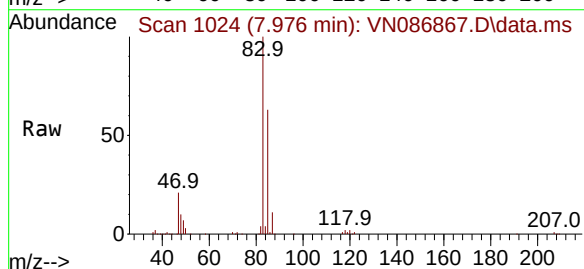
RT: 7.976 min Scan# 1024

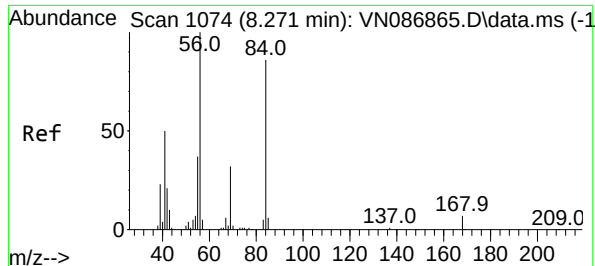
Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Tgt Ion:	83	Resp:	534038
Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.9	79.3





#31

Cyclohexane

Concen: 134.766 ug/l

RT: 8.265 min Scan# 1073

Delta R.T. -0.006 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

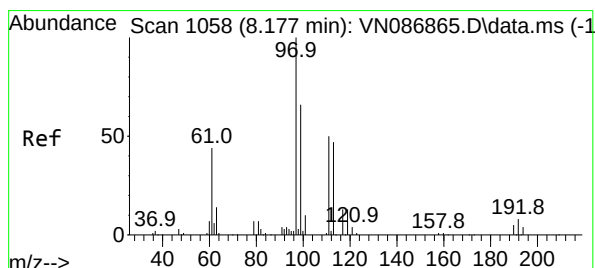
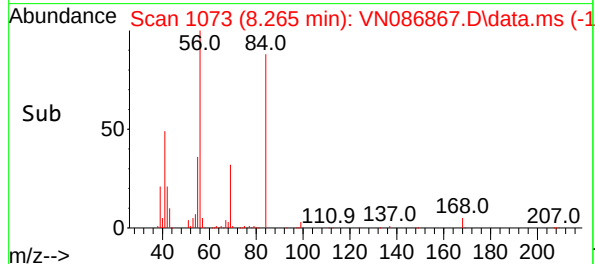
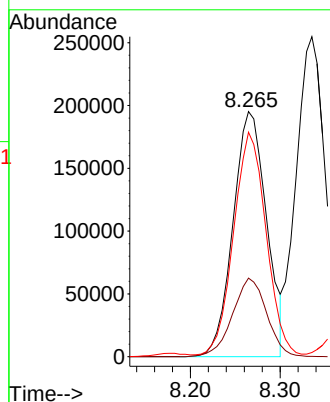
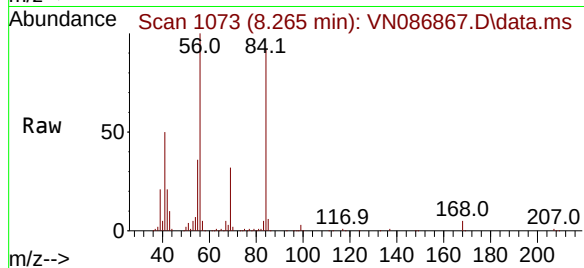
ClientSampleId :

VSTDIC150

Tgt Ion:	56	Resp:	50579
Ion Ratio	Lower	Upper	
56	100		
69	32.0	25.4	38.0
84	90.6	68.8	103.2

Manual Integrations
APPROVED

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



#32

1,1,1-Trichloroethane

Concen: 140.807 ug/l

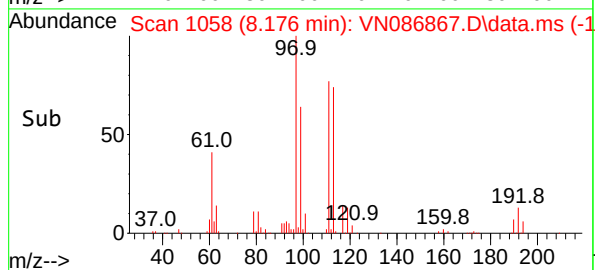
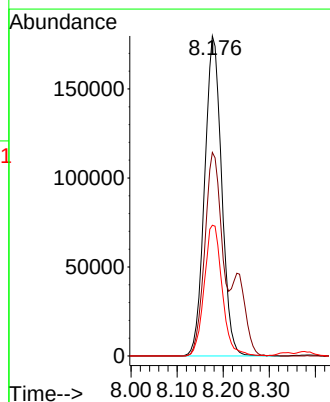
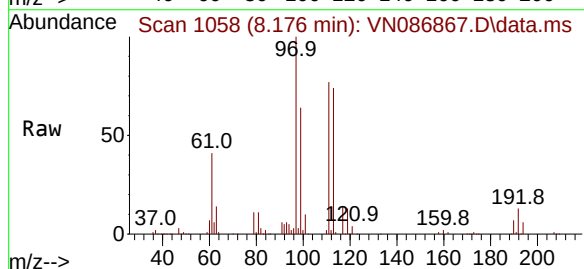
RT: 8.176 min Scan# 1058

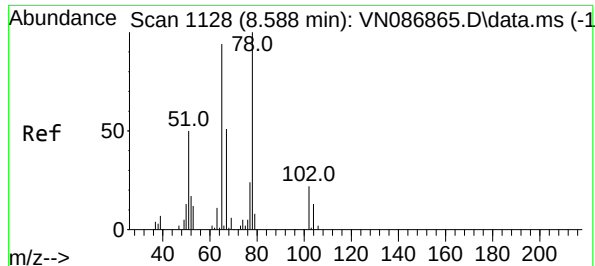
Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Tgt Ion:	97	Resp:	462854
Ion Ratio	Lower	Upper	
97	100		
99	64.9	52.0	78.0
61	43.2	35.9	53.9





#33

1,2-Dichloroethane-d4

Concen: 168.233 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 65 Resp: 38929

Ion Ratio Lower Upper

65 100

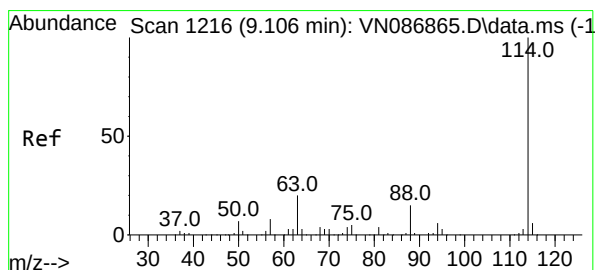
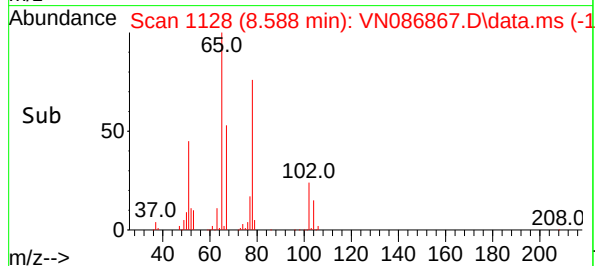
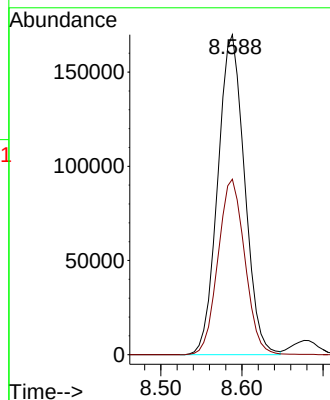
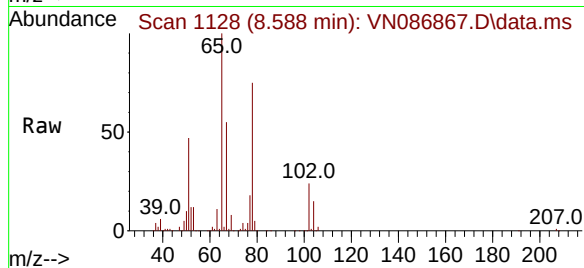
67 54.9 0.0 105.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

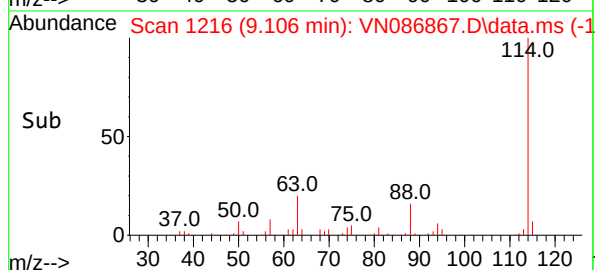
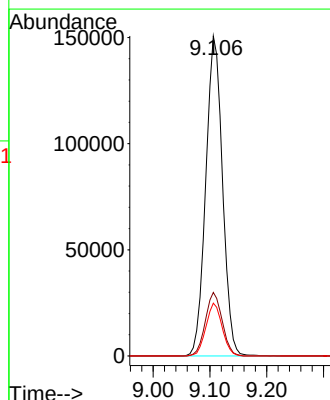
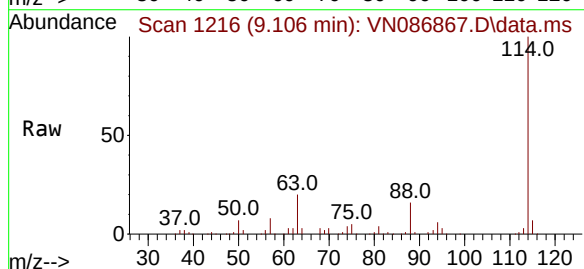
Tgt Ion:114 Resp: 307937

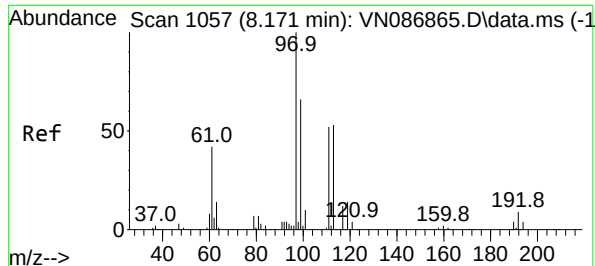
Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.6

88 16.5 0.0 30.2





#35

Dibromofluoromethane

Concen: 177.803 ug/l

RT: 8.176 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:113 Resp: 324474

Ion Ratio Lower Upper

113 100

111 102.5 84.2 126.2

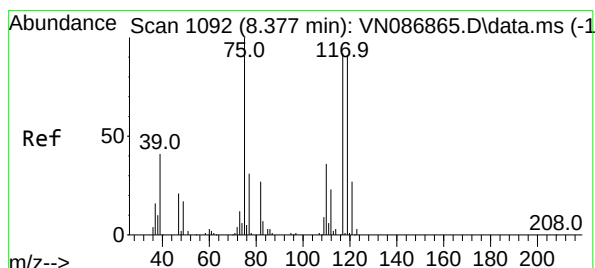
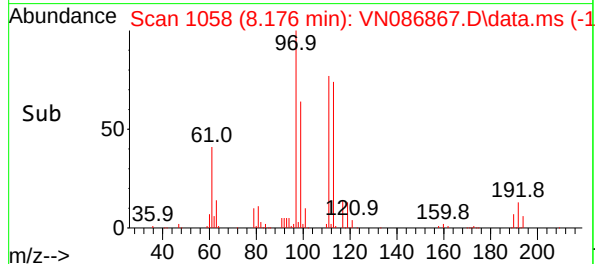
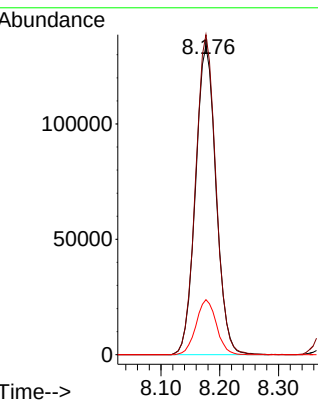
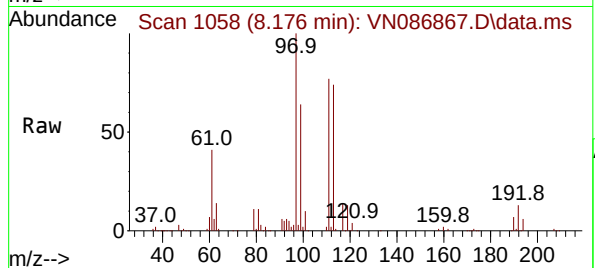
192 17.7 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#36

1,1-Dichloropropene

Concen: 144.584 ug/l

RT: 8.376 min Scan# 1092

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

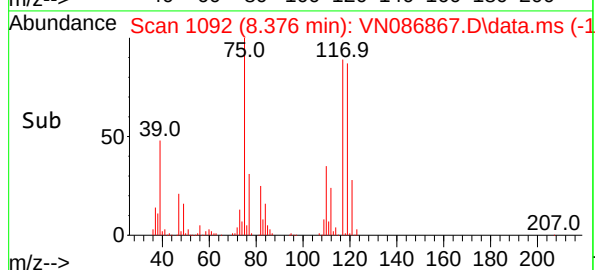
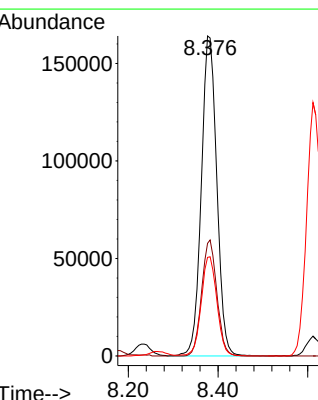
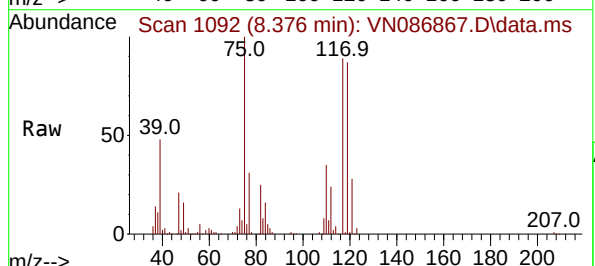
Tgt Ion: 75 Resp: 393166

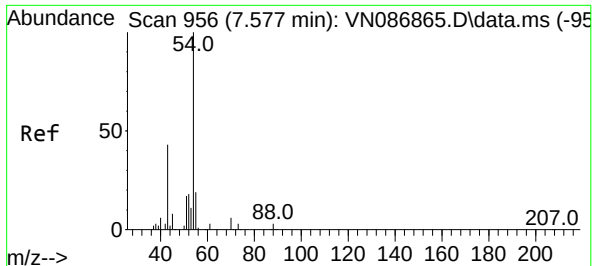
Ion Ratio Lower Upper

75 100

110 35.6 17.6 52.9

77 31.4 25.3 37.9





#37

Ethyl Acetate

Concen: 142.706 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 494000

Ion Ratio Lower Upper

43 100

61 15.4 12.1 18.1

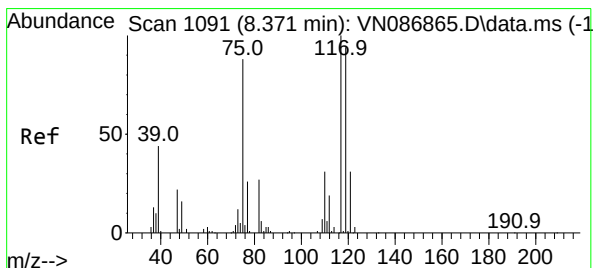
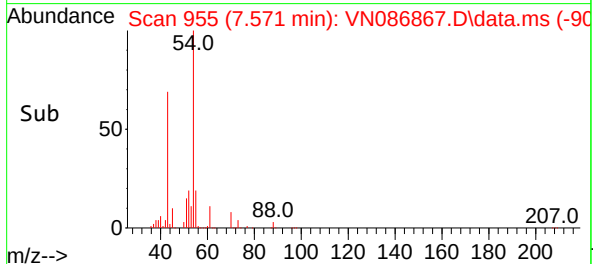
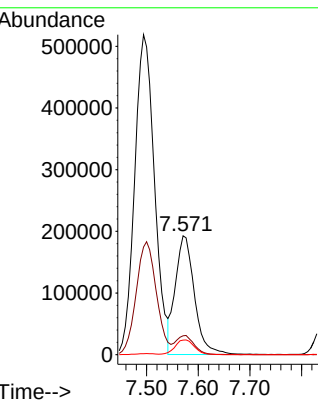
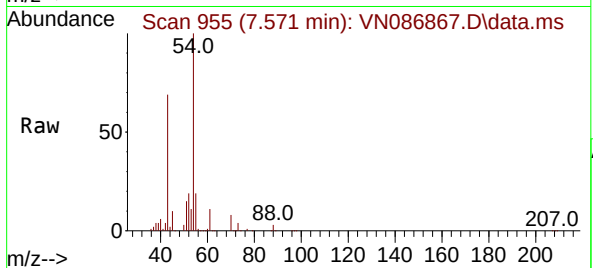
70 12.7 9.8 14.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#38

Carbon Tetrachloride

Concen: 145.557 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

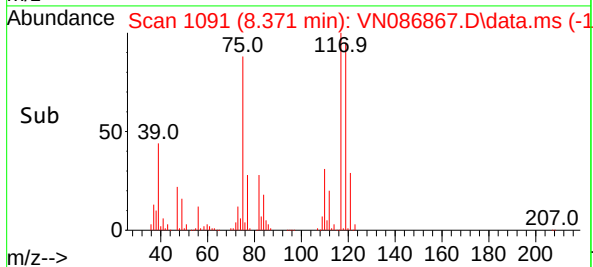
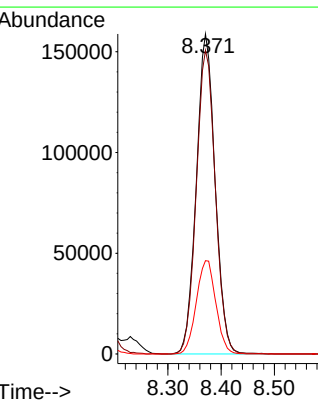
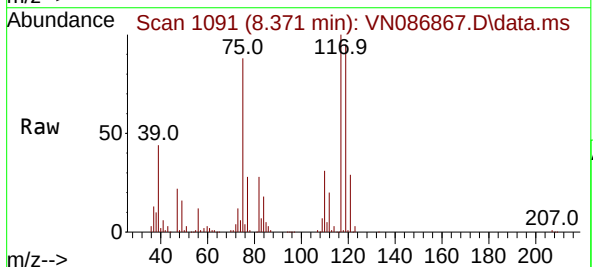
Tgt Ion:117 Resp: 388595

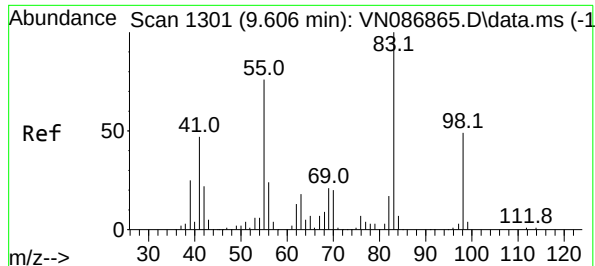
Ion Ratio Lower Upper

117 100

119 94.9 75.0 112.6

121 29.1 24.9 37.3





#39

Methylcyclohexane

Concen: 146.136 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 83 Resp: 54443

Ion Ratio Lower Upper

83 100

55 73.6 61.0 91.6

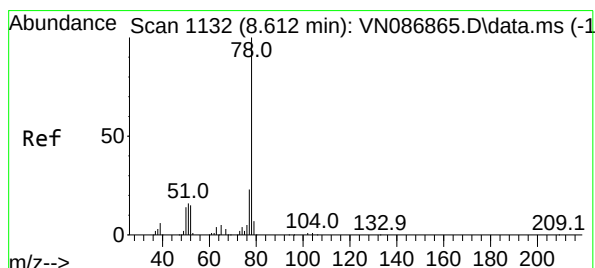
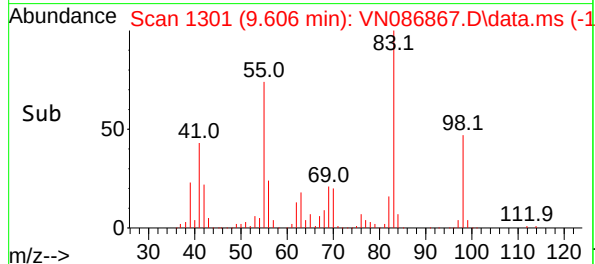
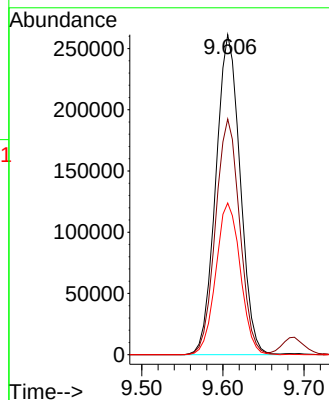
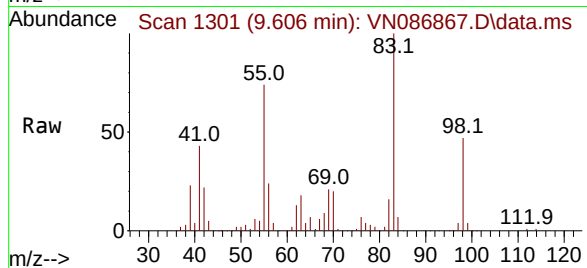
98 47.4 38.9 58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#40

Benzene

Concen: 142.388 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VN086867.D

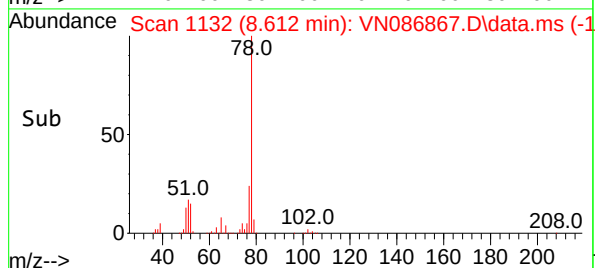
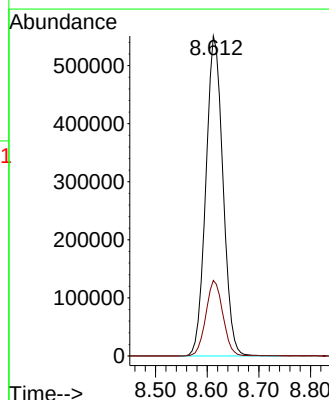
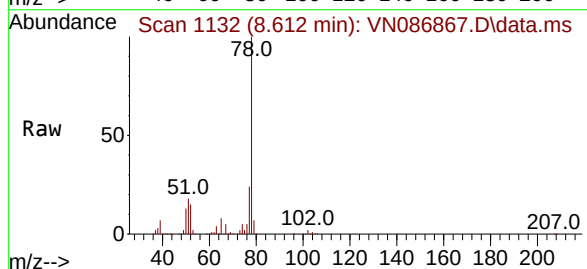
Acq: 06 Jun 2025 14:49

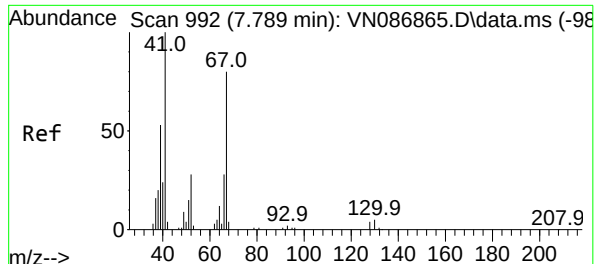
Tgt Ion: 78 Resp: 1266139

Ion Ratio Lower Upper

78 100

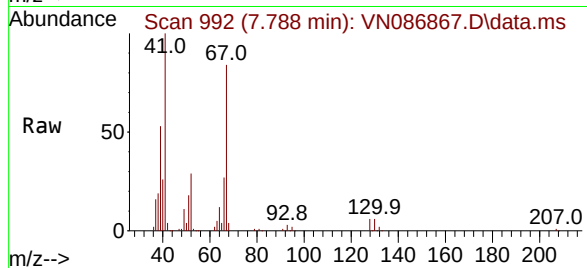
77 23.6 18.7 28.1





#41
Methacrylonitrile
Concen: 142.174 ug/l
RT: 7.788 min Scan# 992
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

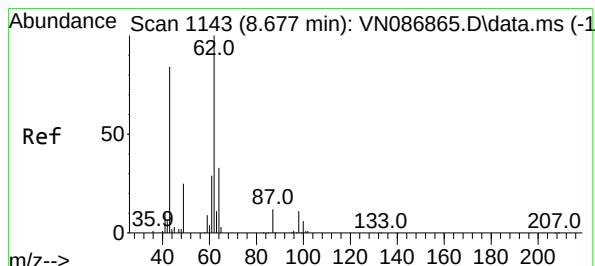
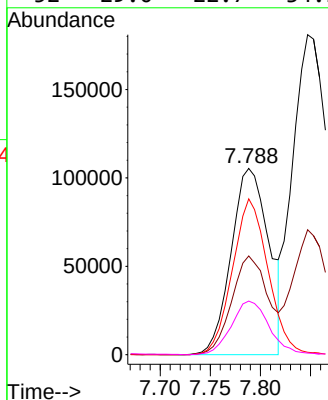
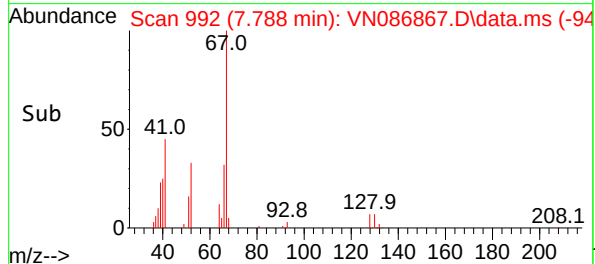
Instrument :
MSVOA_N
Client Sample Id :
VSTDICC150



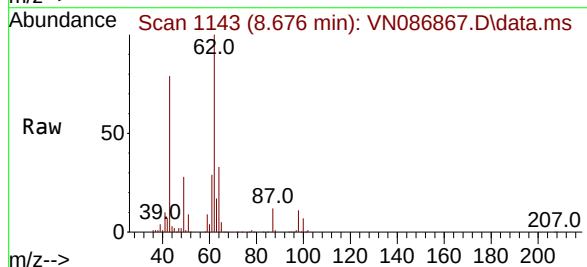
Tgt Ion: 41 Resp: 276400
Ion Ratio Lower Upper
41 100
39 50.9 41.2 61.8
67 79.4 61.4 92.2
52 29.0 22.7 34.1

Manual Integrations
APPROVED

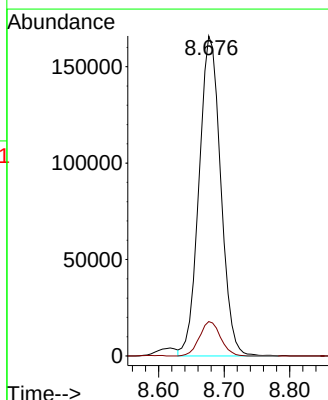
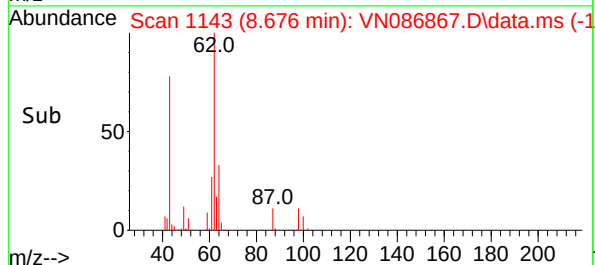
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

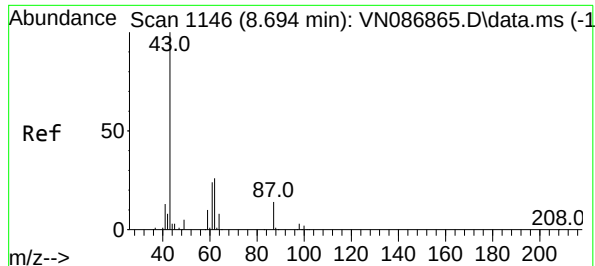


#42
1,2-Dichloroethane
Concen: 141.455 ug/l
RT: 8.676 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49



Tgt Ion: 62 Resp: 381516
Ion Ratio Lower Upper
62 100
98 10.5 0.0 21.2





#43

Isopropyl Acetate

Concen: 140.531 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 78079

Ion Ratio Lower Upper

43 100

61 28.3 22.1 33.1

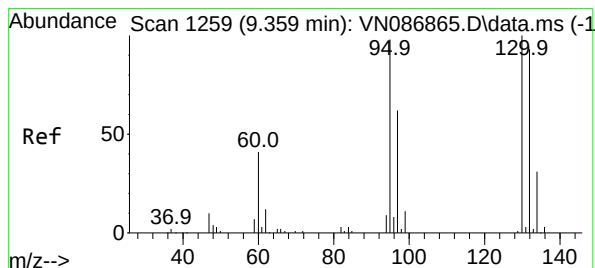
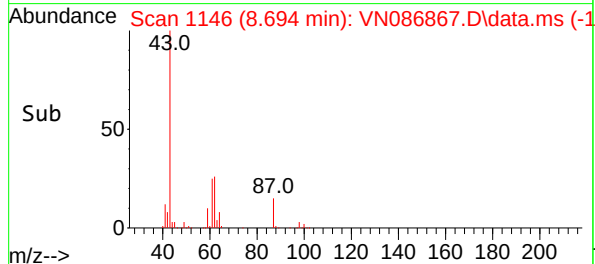
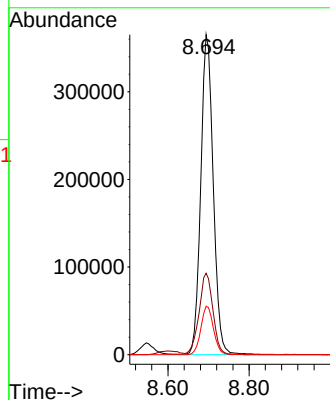
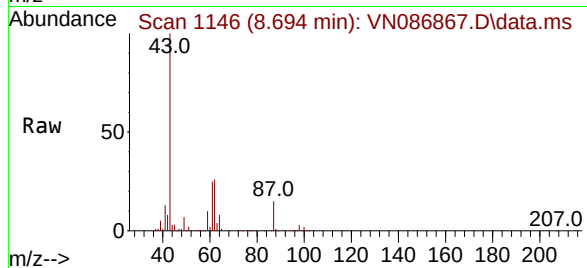
87 15.3 11.8 17.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#44

Trichloroethene

Concen: 143.490 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. -0.000 min

Lab File: VN086867.D

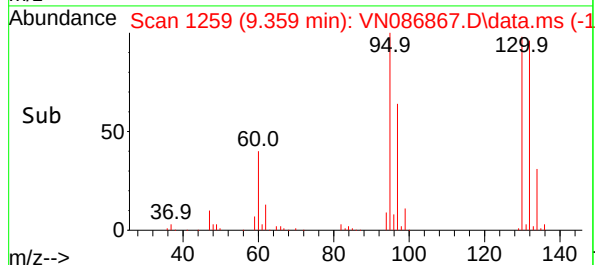
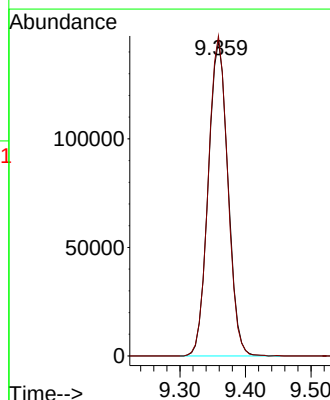
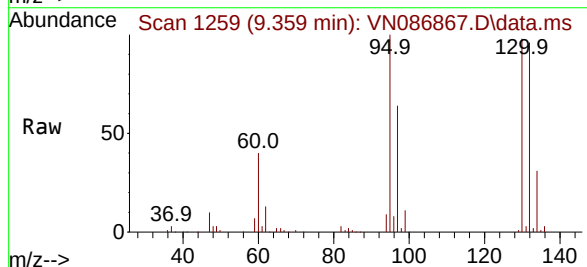
Acq: 06 Jun 2025 14:49

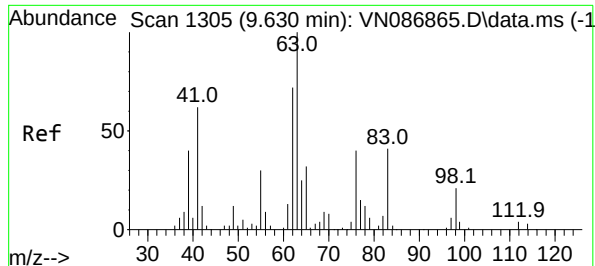
Tgt Ion:130 Resp: 302548

Ion Ratio Lower Upper

130 100

95 101.6 0.0 196.2





#45

1,2-Dichloropropane

Concen: 142.856 ug/l

RT: 9.623 min Scan# 1319

Delta R.T. -0.006 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 63 Resp: 30904

Ion Ratio Lower Upper

63 100

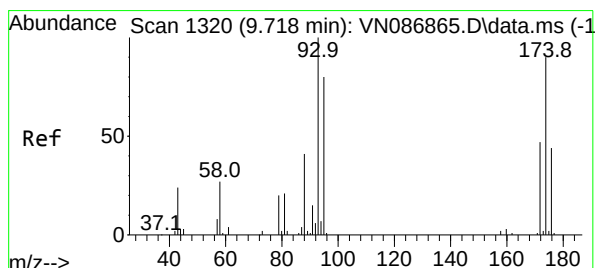
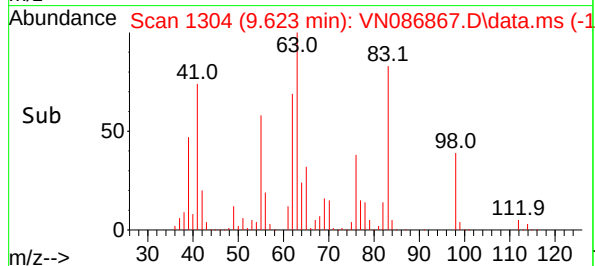
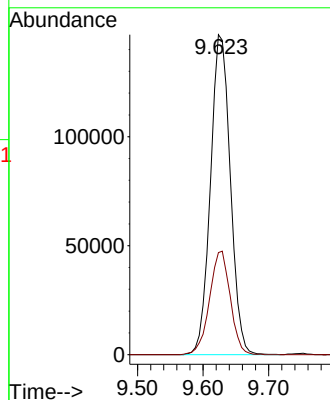
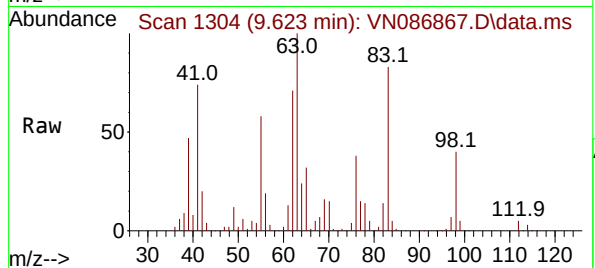
65 31.9 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#46

Dibromomethane

Concen: 145.074 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. -0.006 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

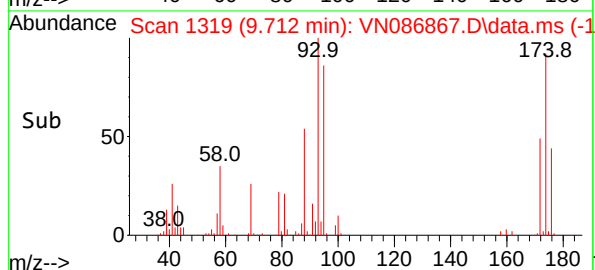
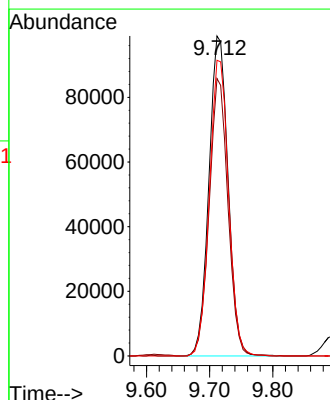
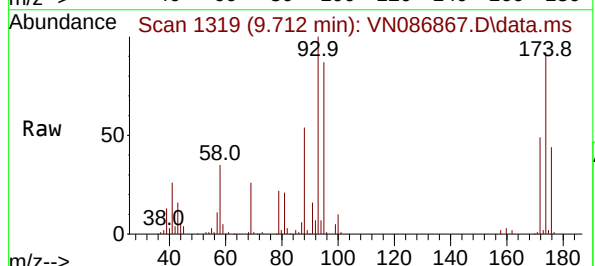
Tgt Ion: 93 Resp: 208461

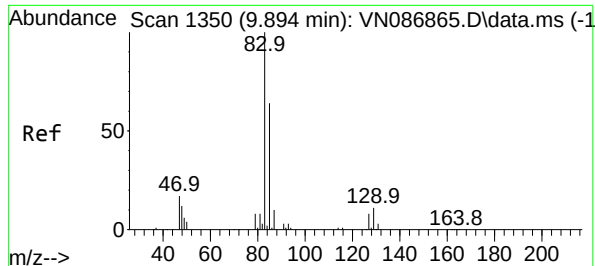
Ion Ratio Lower Upper

93 100

95 84.8 67.1 100.7

174 92.8 74.2 111.4





#47

Bromodichloromethane

Concen: 145.449 ug/l

RT: 9.894 min Scan# 1350

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

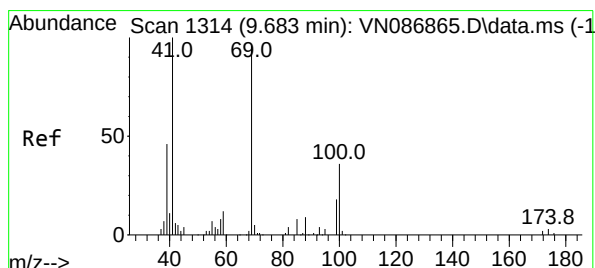
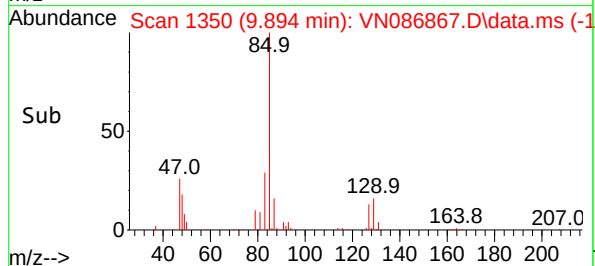
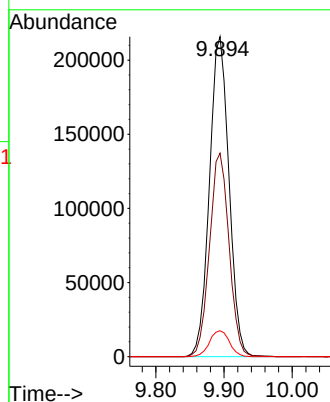
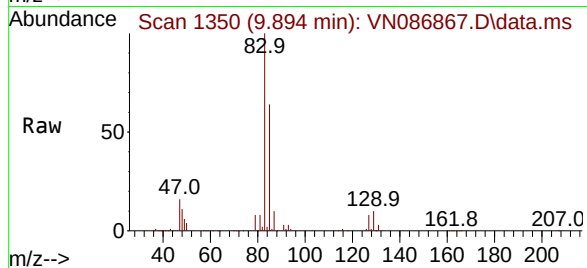
Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:	83	Resp:	43001
Ion	Ratio	Lower	Upper
83	100		
85	63.6	50.9	76.3
127	8.1	6.6	10.0

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

#48

Methyl methacrylate

Concen: 143.502 ug/l

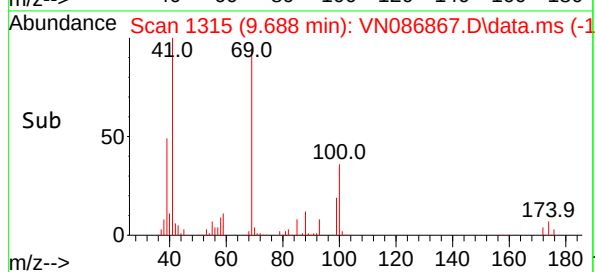
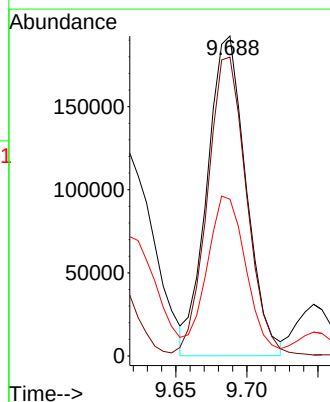
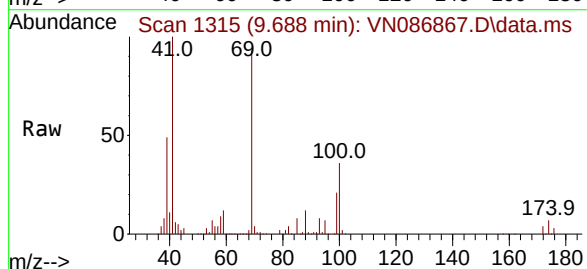
RT: 9.688 min Scan# 1315

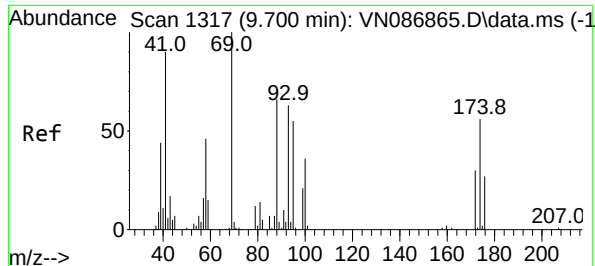
Delta R.T. 0.006 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Tgt Ion:	41	Resp:	366967
Ion	Ratio	Lower	Upper
41	100		
69	94.2	74.6	112.0
39	50.8	40.2	60.4





#49

1,4-Dioxane

Concen: 2967.116 ug/l

RT: 9.712 min Scan# 1317

Delta R.T. 0.011 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 88 Resp: 138035

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

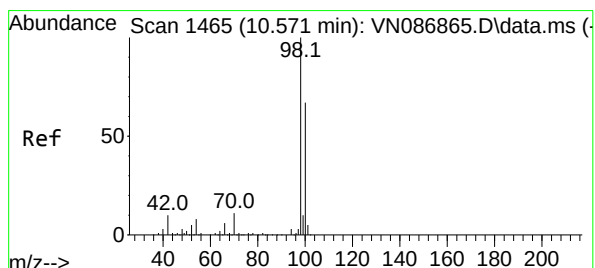
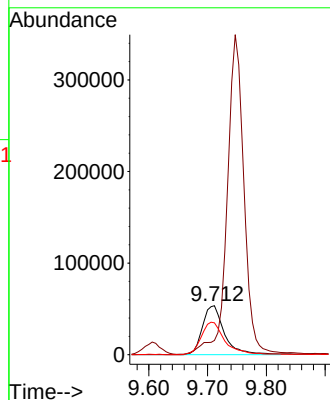
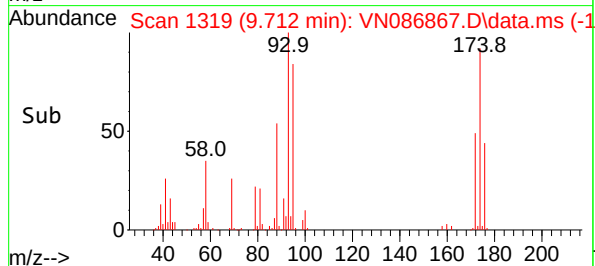
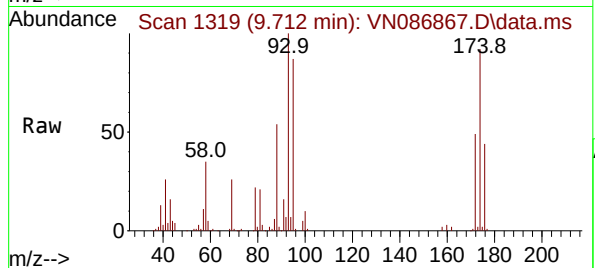
58 72.2 57.7 86.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#50

Toluene-d8

Concen: 176.120 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN086867.D

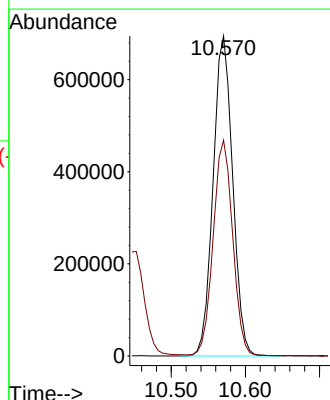
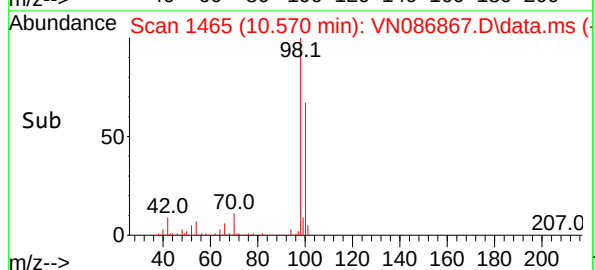
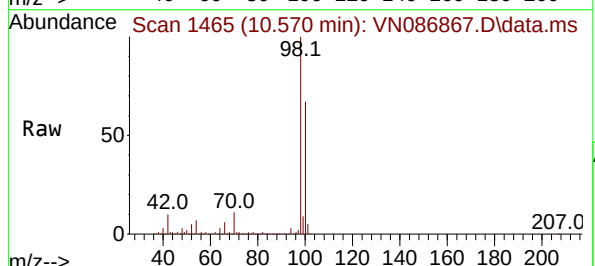
Acq: 06 Jun 2025 14:49

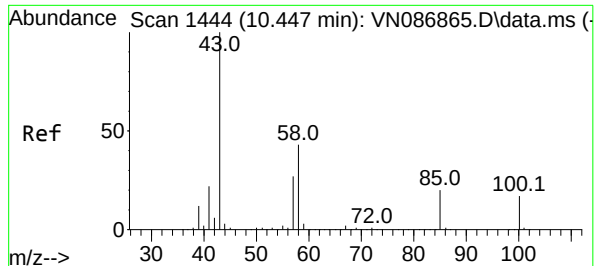
Tgt Ion: 98 Resp: 1272348

Ion Ratio Lower Upper

98 100

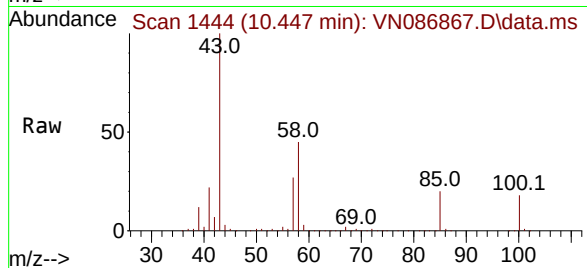
100 67.5 53.4 80.0





#51
4-Methyl-2-Pentanone
Concen: 728.995 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

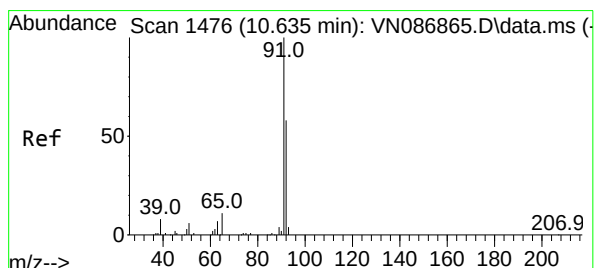
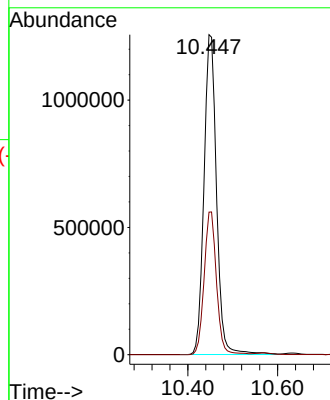
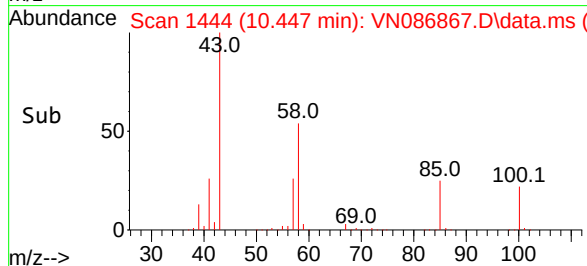
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion: 43 Resp: 243831
Ion Ratio Lower Upper
43 100
58 44.0 34.2 51.4

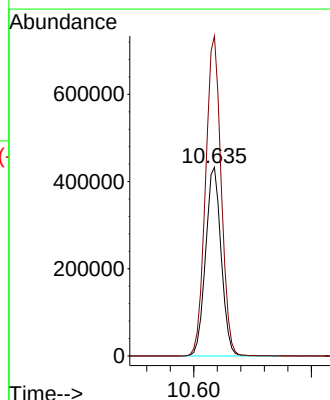
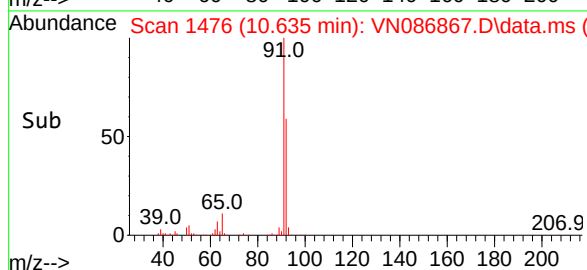
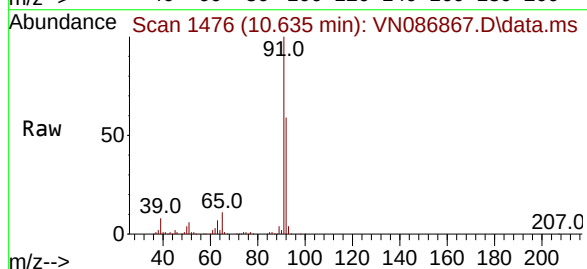
Manual Integrations
APPROVED

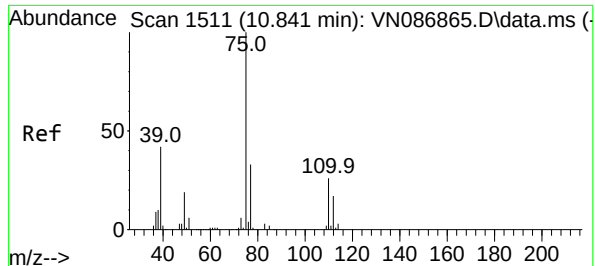
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#52
Toluene
Concen: 145.976 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

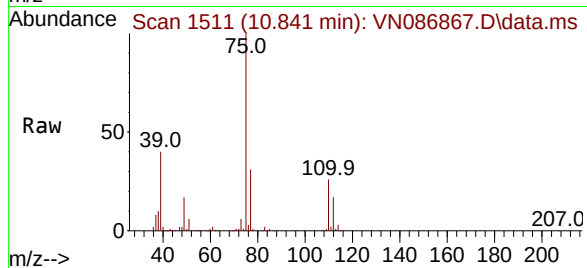
Tgt Ion: 92 Resp: 793270
Ion Ratio Lower Upper
92 100
91 170.2 136.5 204.7





#53
t-1,3-Dichloropropene
Concen: 148.163 ug/l
RT: 10.841 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

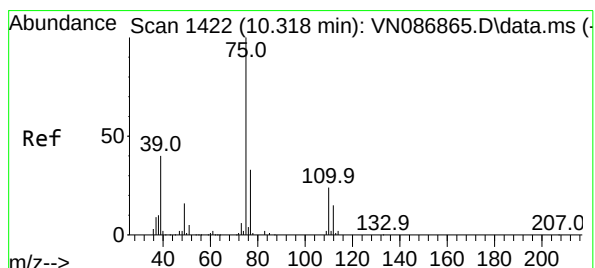
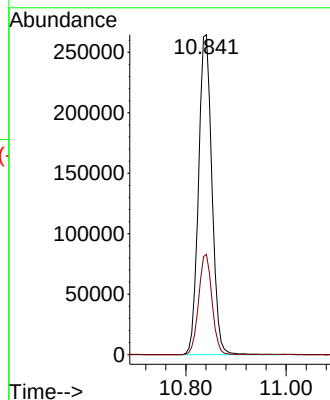
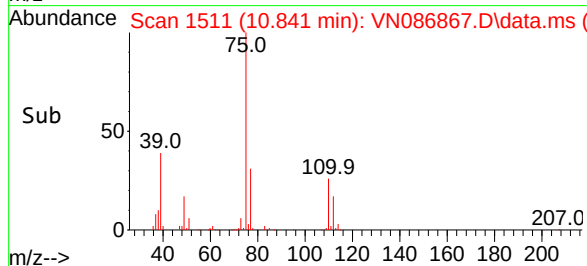
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



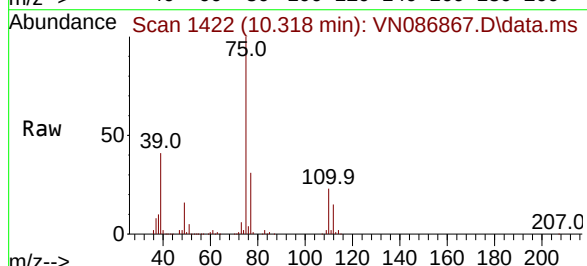
Tgt Ion: 75 Resp: 489809
Ion Ratio Lower Upper
75 100
77 31.4 26.4 39.6

Manual Integrations
APPROVED

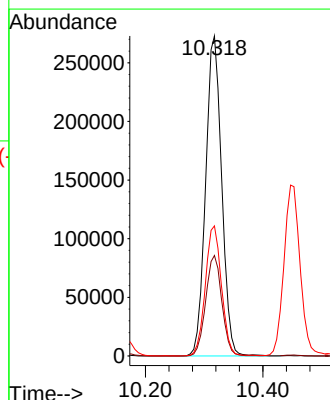
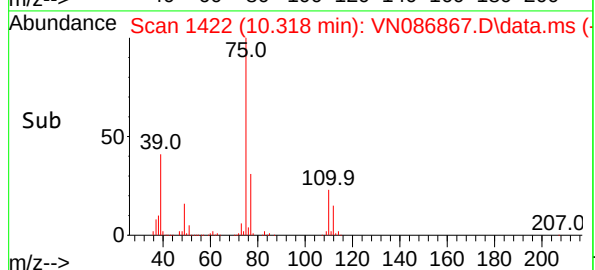
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

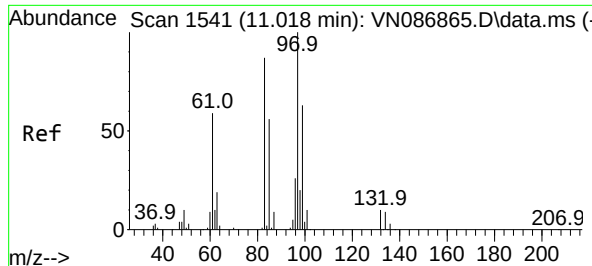


#54
cis-1,3-Dichloropropene
Concen: 146.469 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49



Tgt Ion: 75 Resp: 518092
Ion Ratio Lower Upper
75 100
77 31.4 26.2 39.4
39 40.6 32.3 48.5





#55

1,1,2-Trichloroethane

Concen: 142.588 ug/l

RT: 11.017 min Scan# 1541

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 97 Resp: 29815

Ion Ratio Lower Upper

97 100

83 85.6 69.7 104.5

85 55.2 45.1 67.7

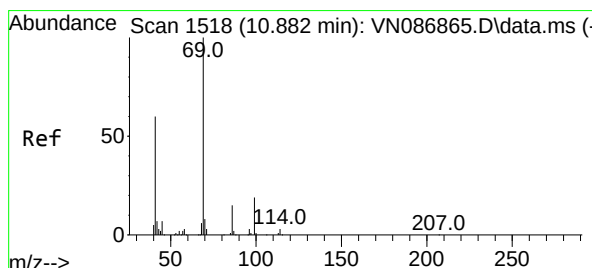
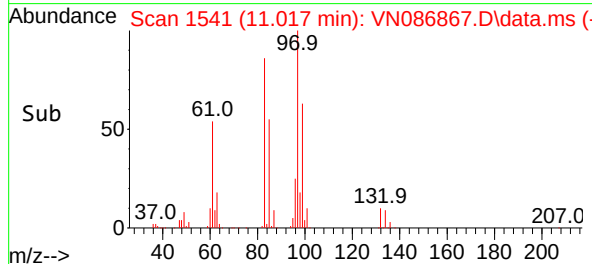
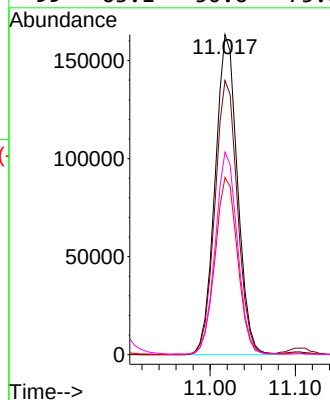
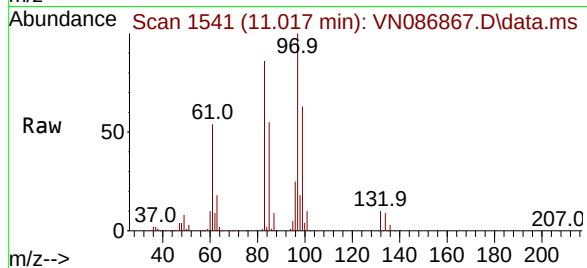
99 63.1 50.6 75.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#56

Ethyl methacrylate

Concen: 160.311 ug/l

RT: 10.876 min Scan# 1517

Delta R.T. -0.006 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

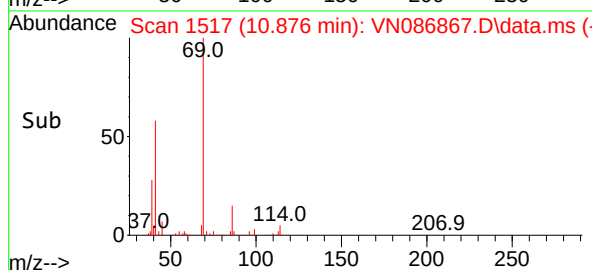
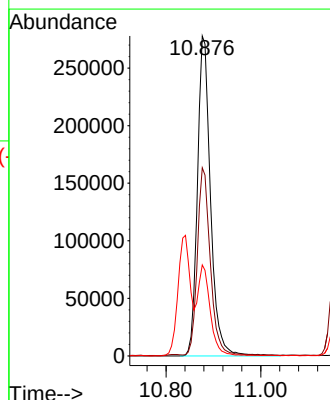
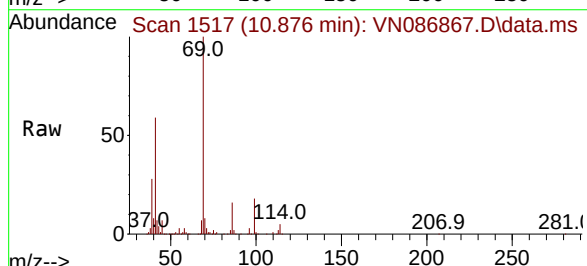
Tgt Ion: 69 Resp: 533912

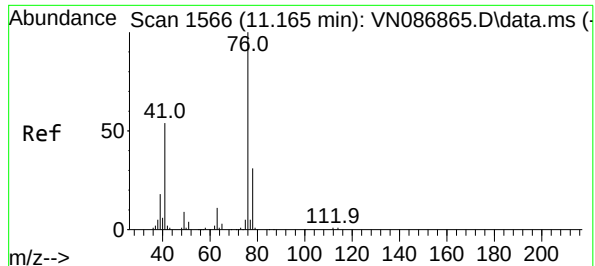
Ion Ratio Lower Upper

69 100

41 57.5 47.2 70.8

39 27.0 23.0 34.6





#57

1,3-Dichloropropane

Concen: 142.363 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 76 Resp: 51639

Ion Ratio Lower Upper

76 100

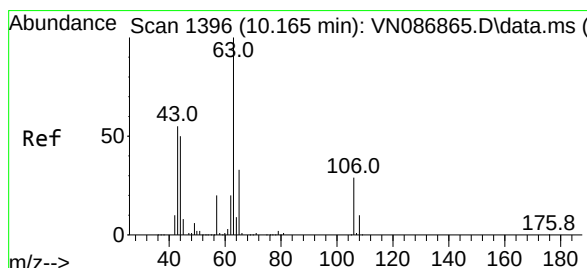
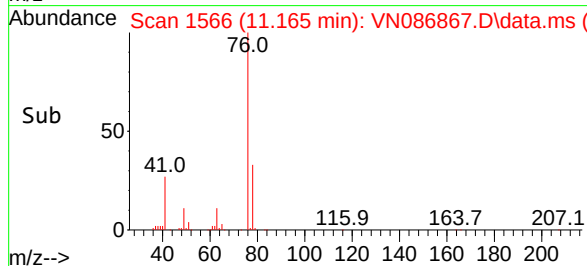
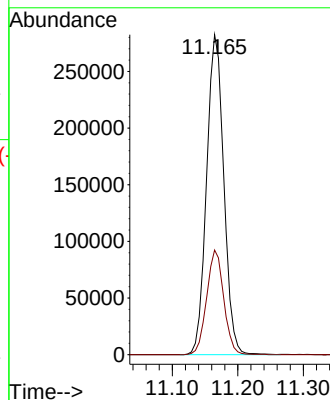
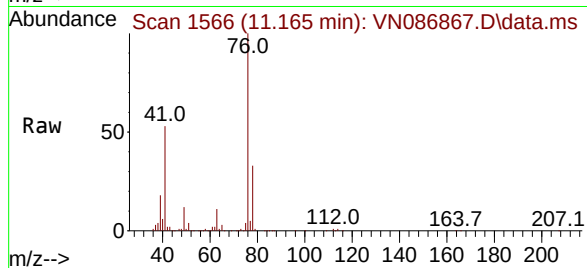
78 32.5 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#58

2-Chloroethyl Vinyl ether

Concen: 941.147 ug/l

RT: 10.165 min Scan# 1396

Delta R.T. -0.000 min

Lab File: VN086867.D

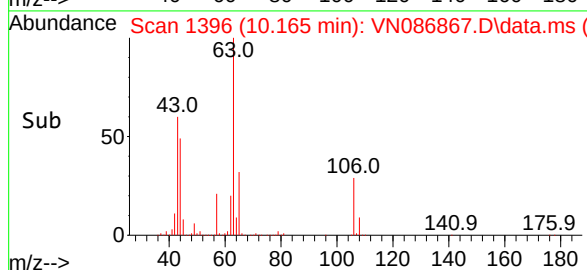
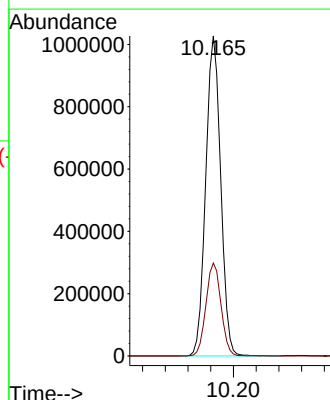
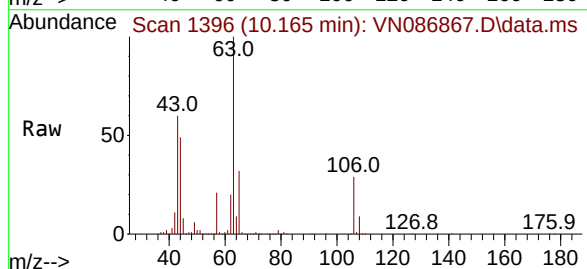
Acq: 06 Jun 2025 14:49

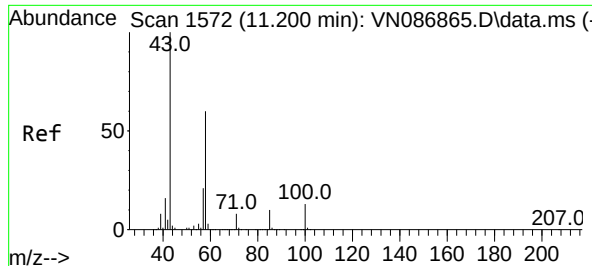
Tgt Ion: 63 Resp: 1869543

Ion Ratio Lower Upper

63 100

106 29.2 23.0 34.6





#59

2-Hexanone

Concen: 805.662 ug/l

RT: 11.200 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 173577

Ion Ratio Lower Upper

43 100

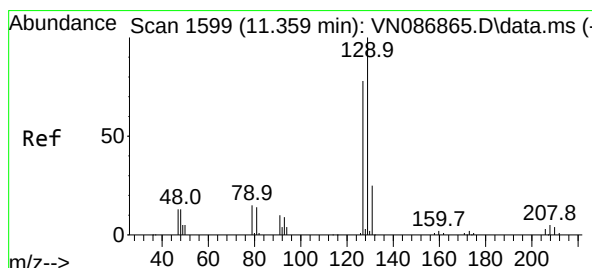
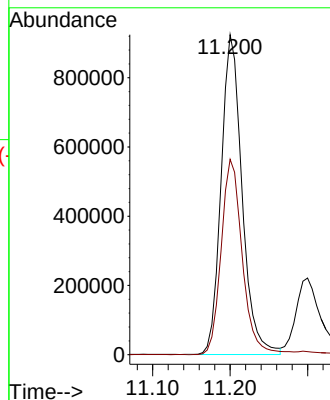
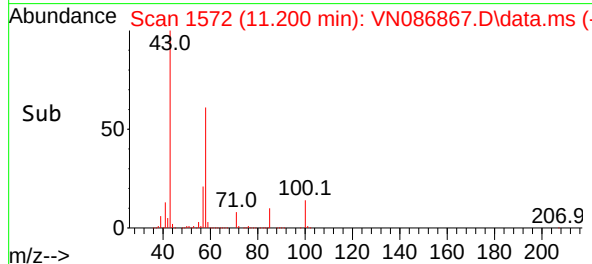
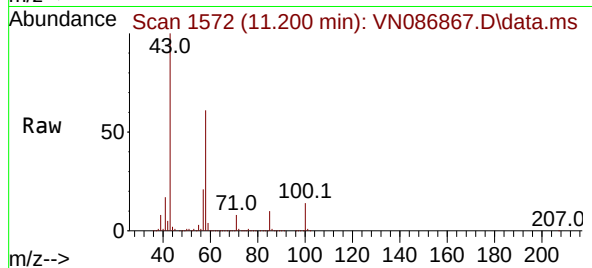
58 61.6 30.4 91.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#60

Dibromochloromethane

Concen: 147.832 ug/l

RT: 11.365 min Scan# 1600

Delta R.T. 0.006 min

Lab File: VN086867.D

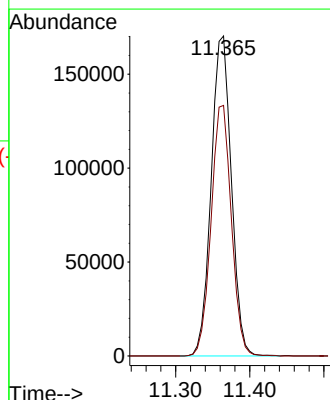
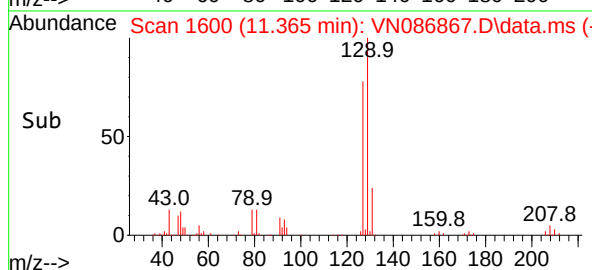
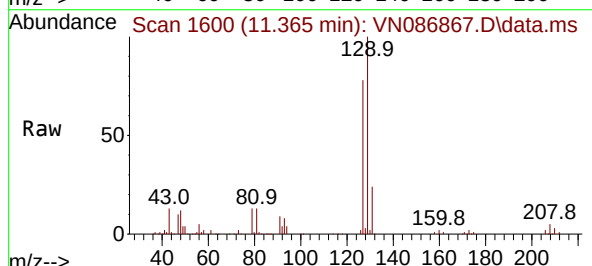
Acq: 06 Jun 2025 14:49

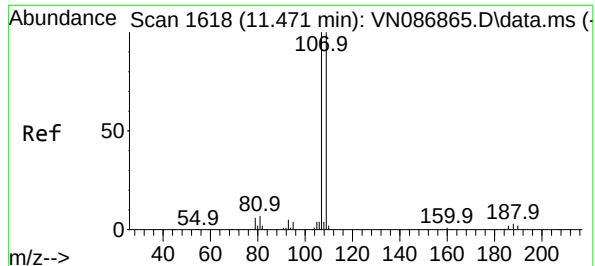
Tgt Ion:129 Resp: 322064

Ion Ratio Lower Upper

129 100

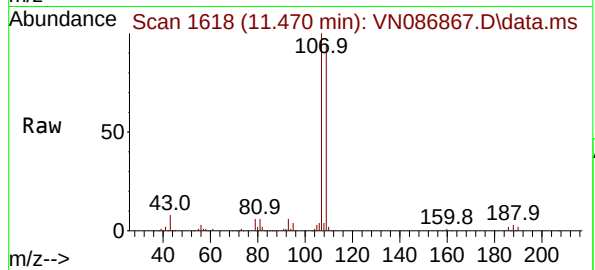
127 78.6 38.6 115.8





#61
1,2-Dibromoethane
Concen: 146.790 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

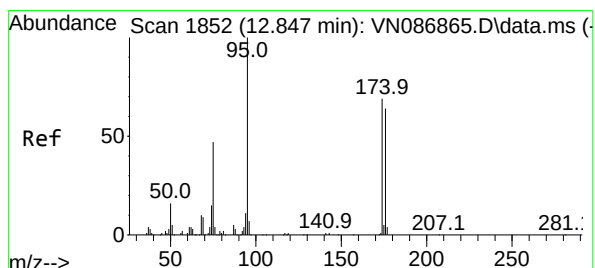
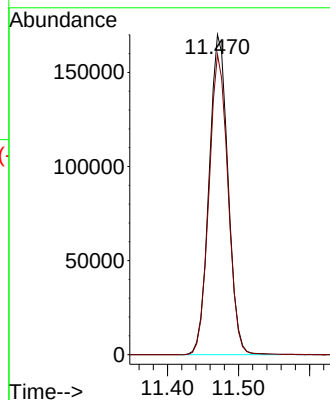
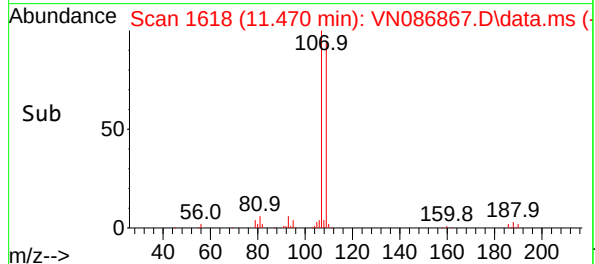
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion:107 Resp: 314600
Ion Ratio Lower Upper
107 100
109 94.0 76.3 114.5

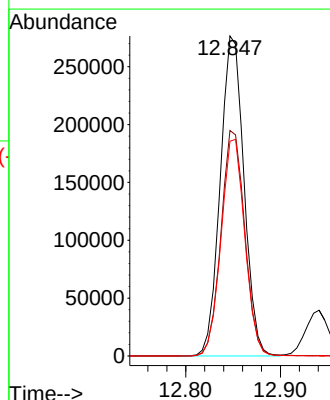
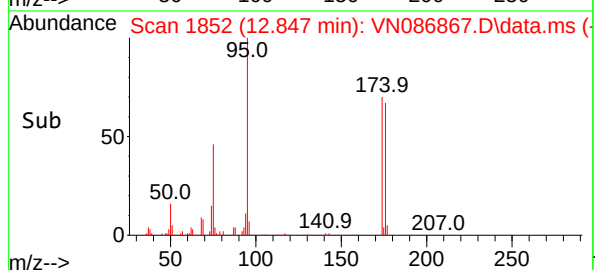
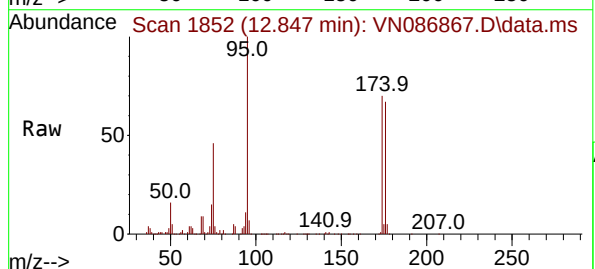
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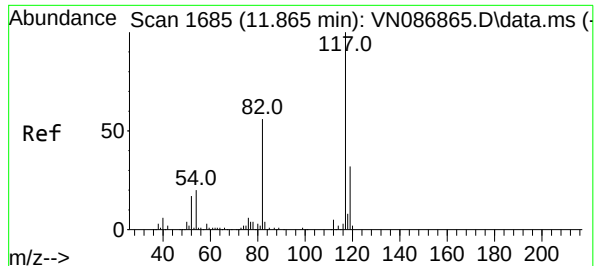
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#62
4-Bromofluorobenzene
Concen: 179.364 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

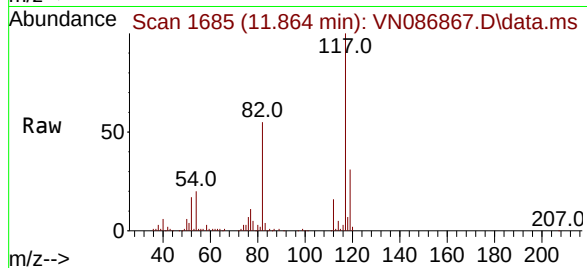
Tgt Ion: 95 Resp: 481421
Ion Ratio Lower Upper
95 100
174 70.7 0.0 141.8
176 67.8 0.0 132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.864 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

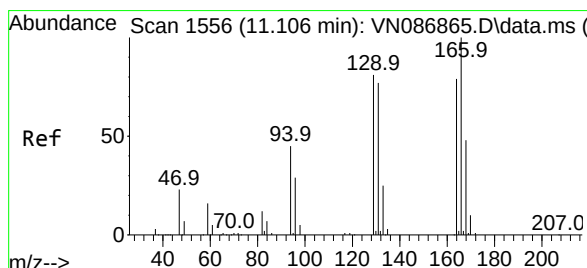
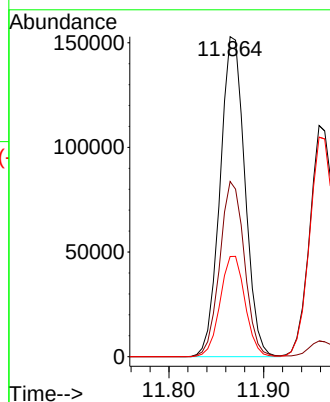
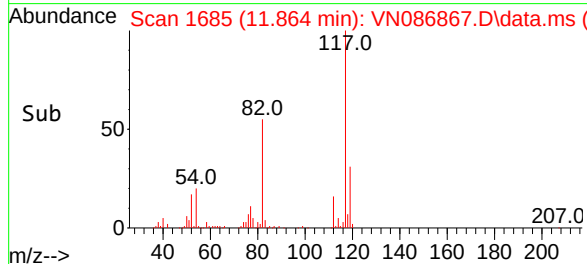
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion:117 Resp: 278552
Ion Ratio Lower Upper
117 100
82 54.7 44.6 67.0
119 31.3 25.5 38.3

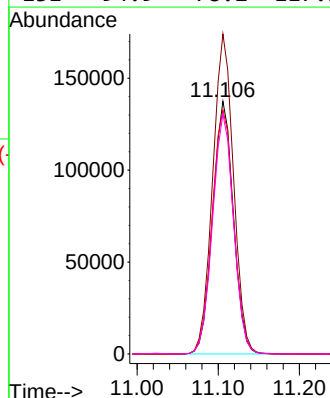
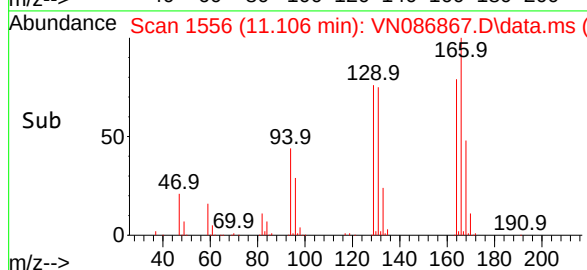
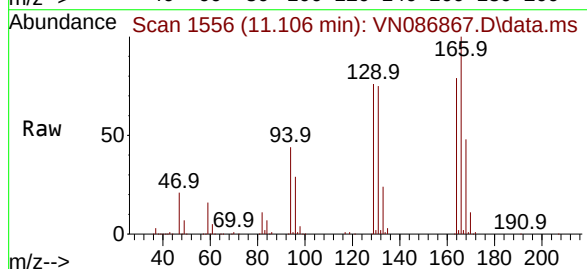
Manual Integrations
APPROVED

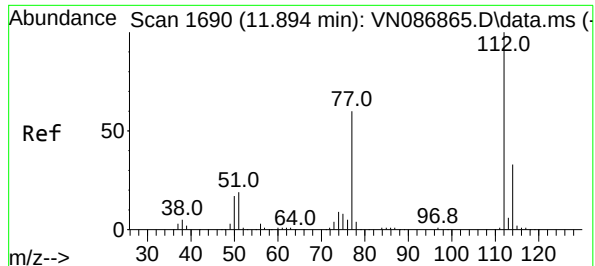
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#64
Tetrachloroethene
Concen: 139.048 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:164 Resp: 245122
Ion Ratio Lower Upper
164 100
166 126.7 101.8 152.8
129 96.6 83.0 124.4
131 94.9 78.2 117.2





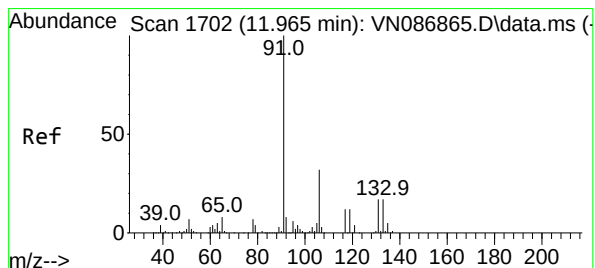
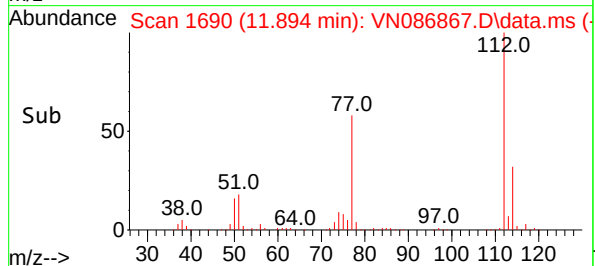
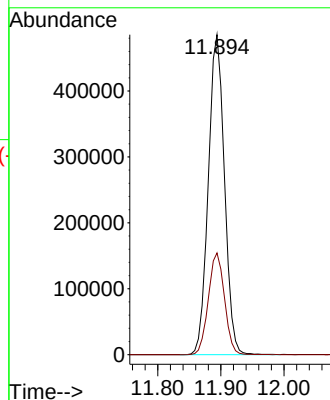
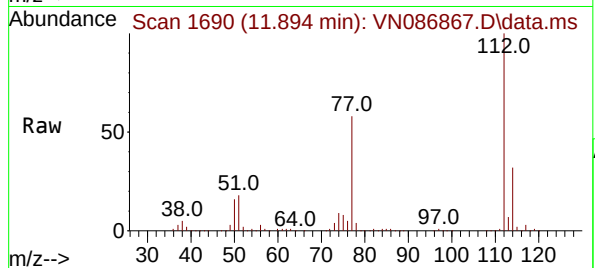
#65
Chlorobenzene
Concen: 140.041 ug/l
RT: 11.894 min Scan# 110
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:112 Resp: 860345
Ion Ratio Lower Upper
112 100
114 31.8 26.2 39.2

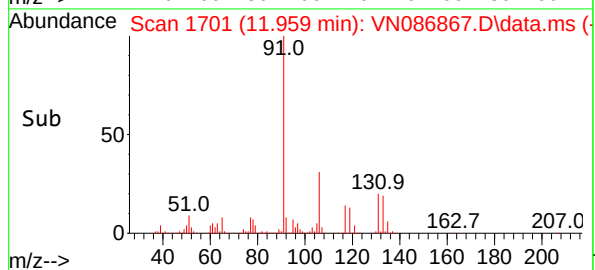
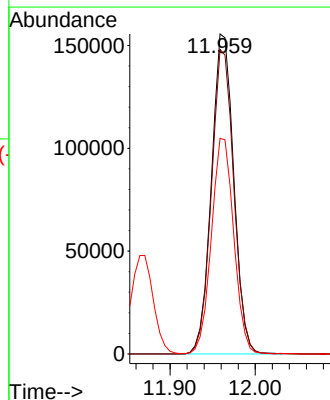
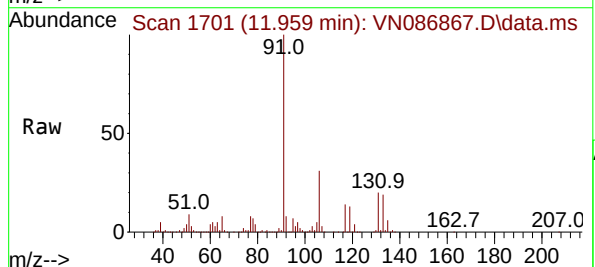
Manual Integrations
APPROVED

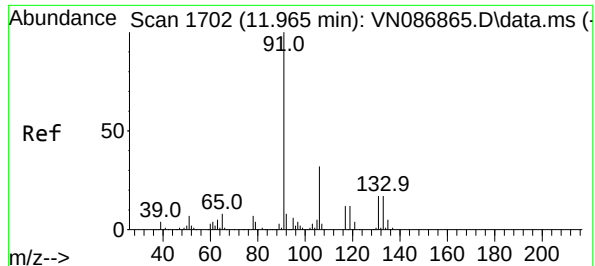
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 143.171 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:131 Resp: 282739
Ion Ratio Lower Upper
131 100
133 95.2 48.3 144.8
119 67.8 34.0 101.8





#67

Ethyl Benzene

Concen: 143.438 ug/l

RT: 11.964 min Scan# 1702

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 151788

Ion Ratio Lower Upper

91 100

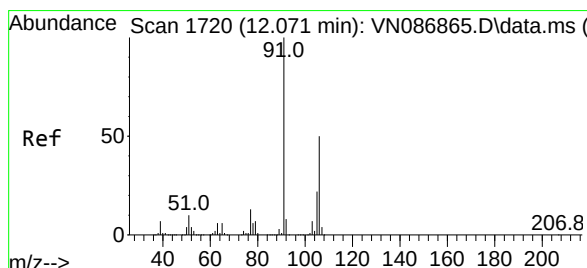
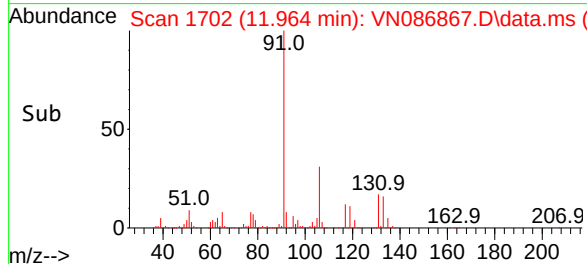
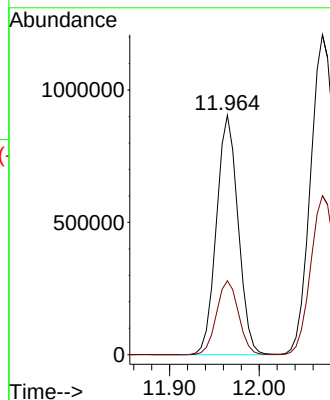
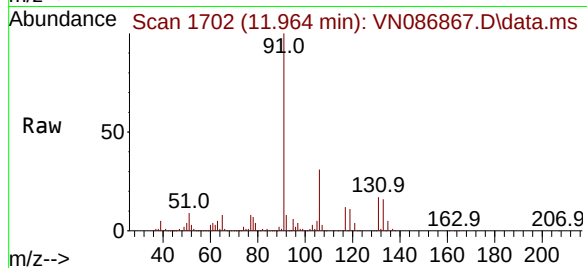
106 30.9 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#68

m/p-Xylenes

Concen: 290.155 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN086867.D

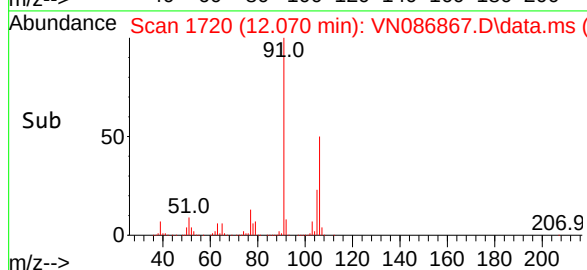
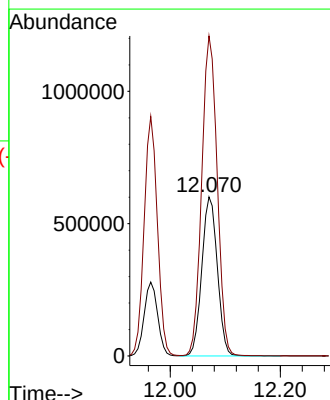
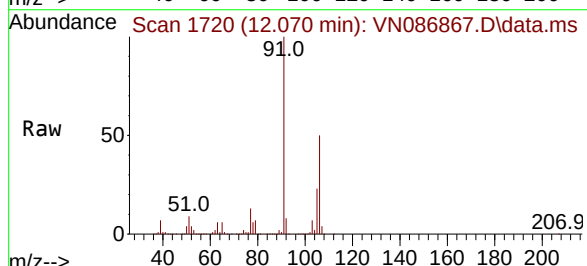
Acq: 06 Jun 2025 14:49

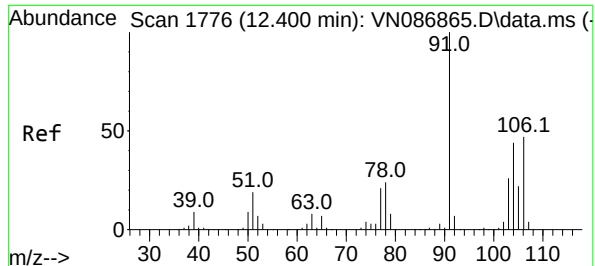
Tgt Ion:106 Resp: 1175378

Ion Ratio Lower Upper

106 100

91 200.8 159.4 239.0





#69

o-Xylene

Concen: 145.966 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion:106 Resp: 56630

Ion Ratio Lower Upper

106 100

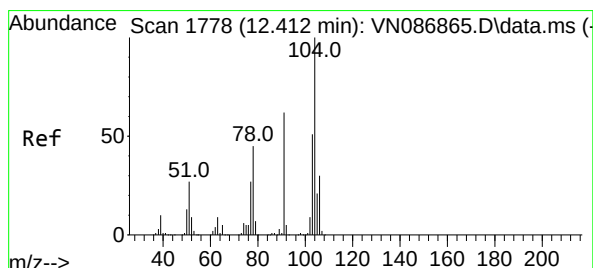
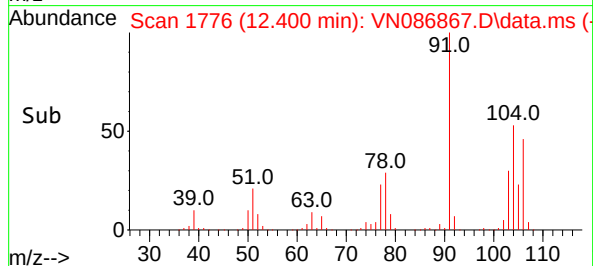
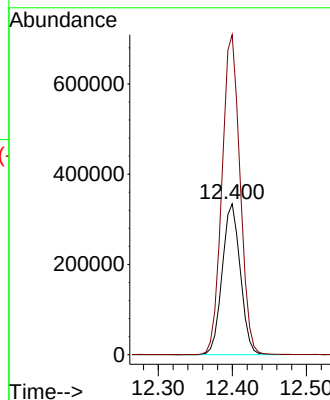
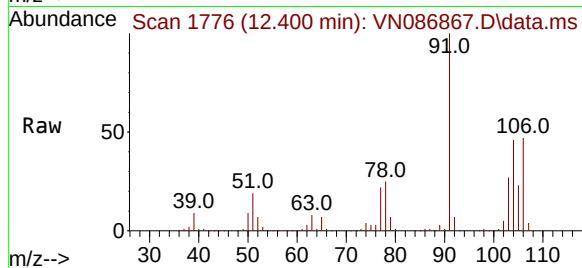
91 211.9 106.1 318.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#70

Styrene

Concen: 146.459 ug/l

RT: 12.411 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

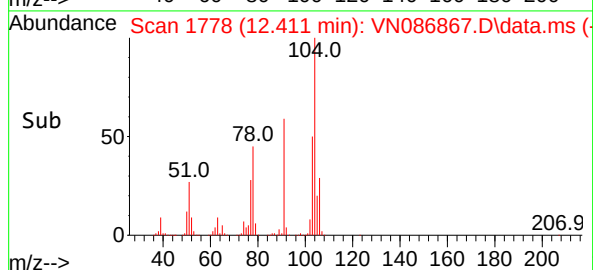
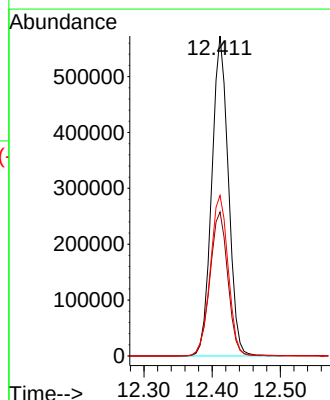
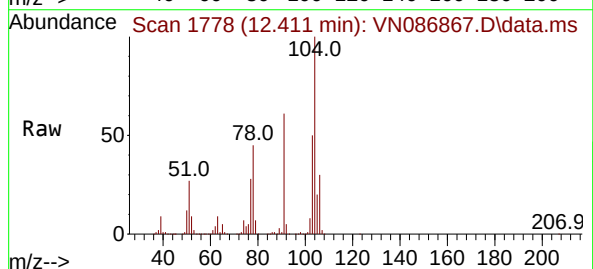
Tgt Ion:104 Resp: 972318

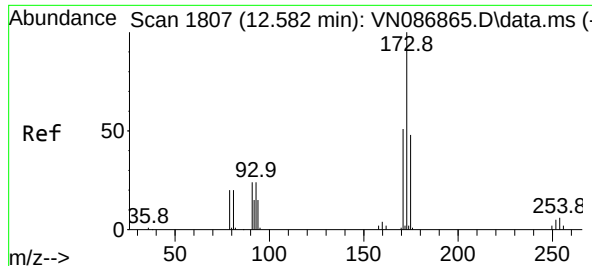
Ion Ratio Lower Upper

104 100

78 48.4 38.5 57.7

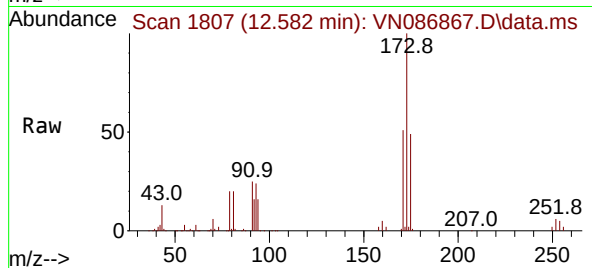
103 54.0 43.1 64.7





#71
Bromoform
Concen: 152.538 ug/l
RT: 12.582 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

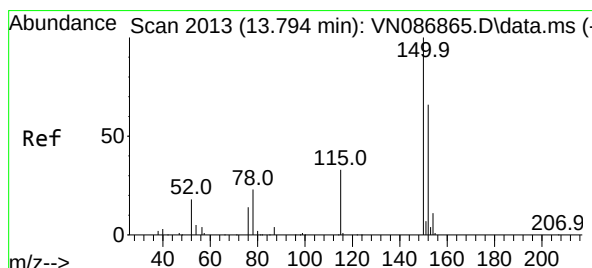
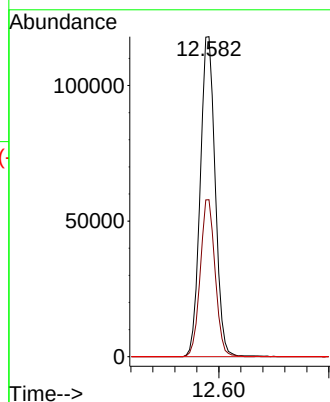
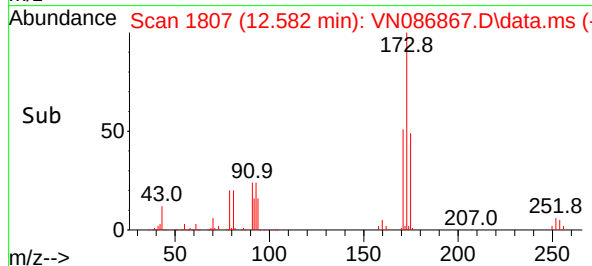
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



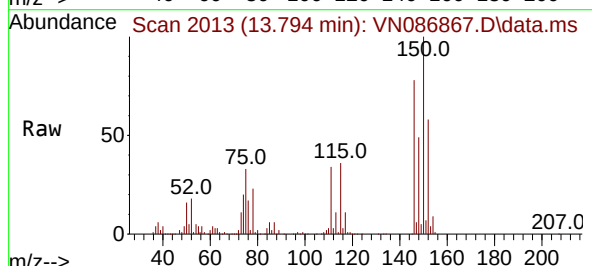
Tgt Ion:173 Resp: 223200
Ion Ratio Lower Upper
173 100
175 48.8 24.1 72.4
254 0.0 0.0 0.0

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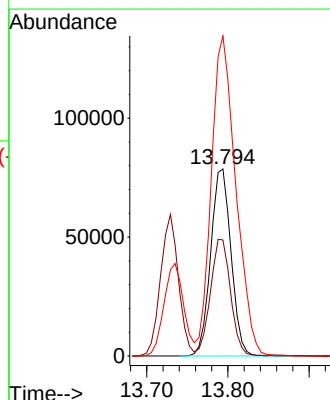
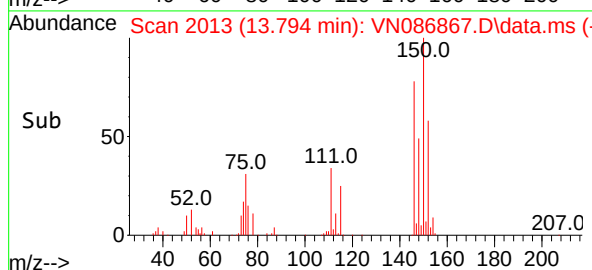
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

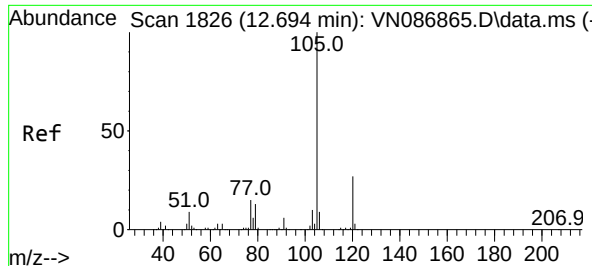


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49



Tgt Ion:152 Resp: 136630
Ion Ratio Lower Upper
152 100
115 61.1 30.1 90.5
150 206.7 0.0 345.0





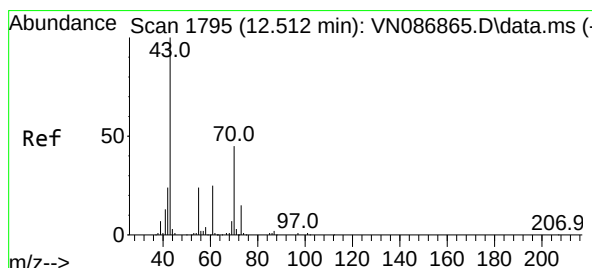
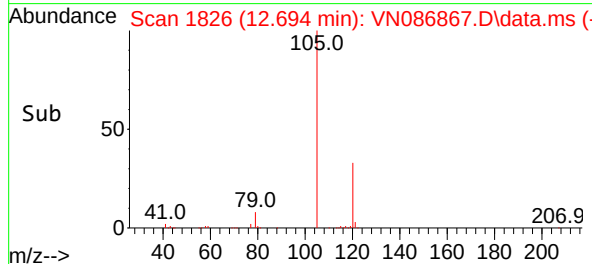
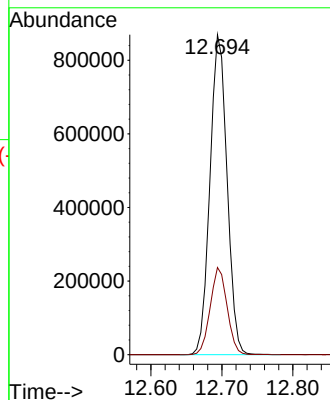
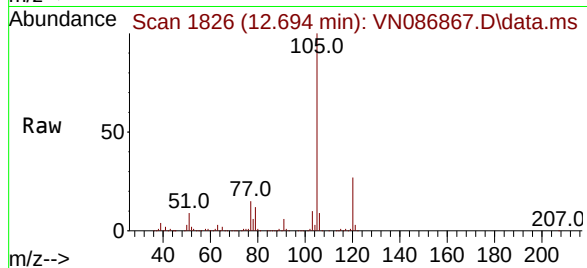
#73
Isopropylbenzene
Concen: 146.042 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDIC150

Tgt Ion:105 Resp: 145365
Ion Ratio Lower Upper
105 100
120 26.9 13.5 40.4

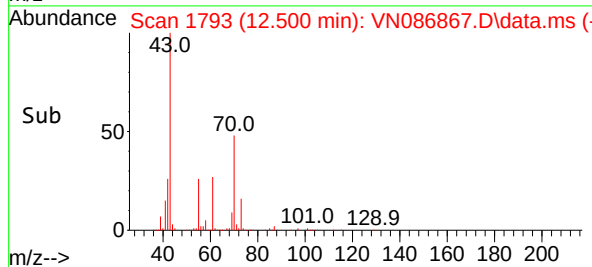
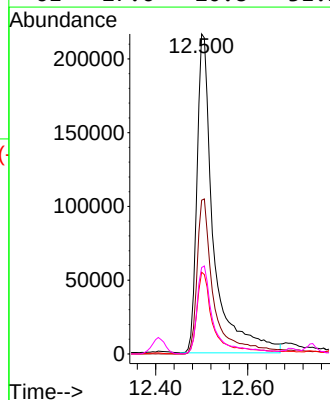
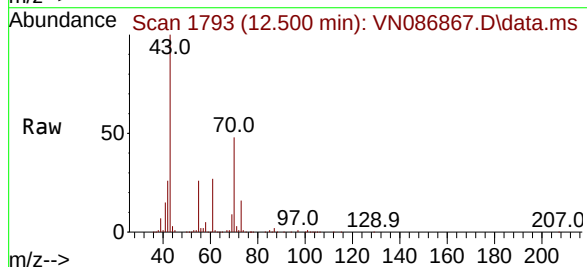
Manual Integrations
APPROVED

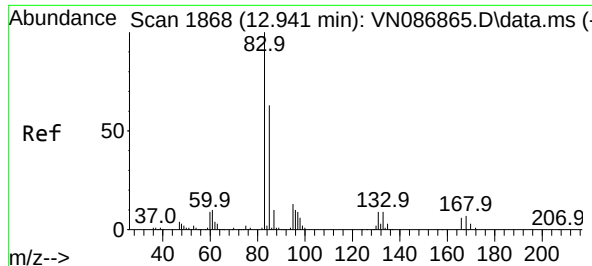
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#74
N-ethyl acetate
Concen: 164.596 ug/l
RT: 12.500 min Scan# 1793
Delta R.T. -0.012 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

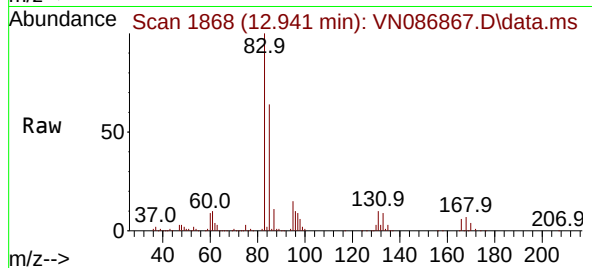
Tgt Ion: 43 Resp: 543747
Ion Ratio Lower Upper
43 100
70 50.0 37.6 56.4
55 26.1 19.0 28.6
61 27.6 20.8 31.2





#75
1,1,2-Tetrachloroethane
Concen: 140.693 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

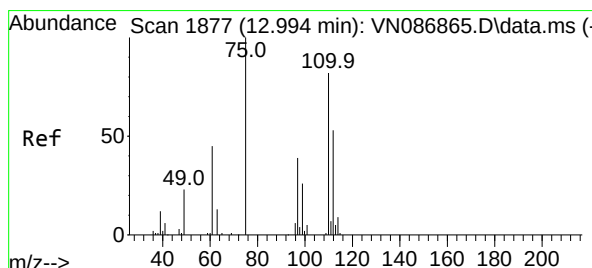
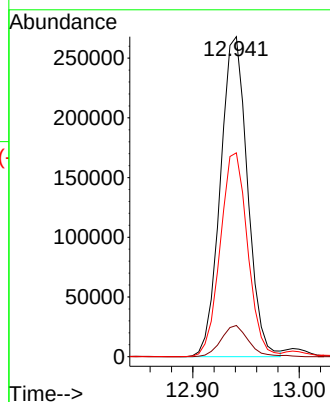
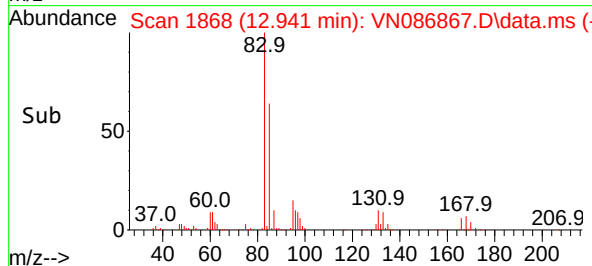
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion: 83 Resp: 474420
Ion Ratio Lower Upper
83 100
131 9.9 4.9 14.7
85 64.3 32.0 96.0

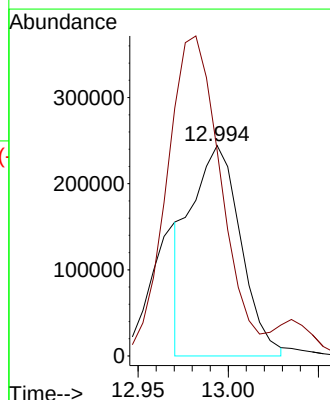
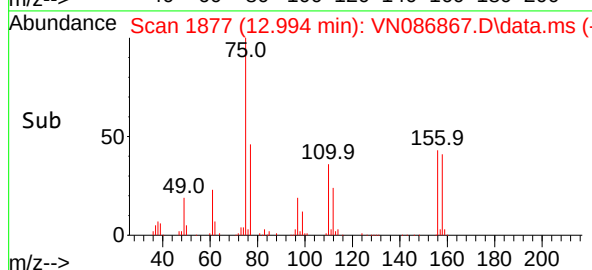
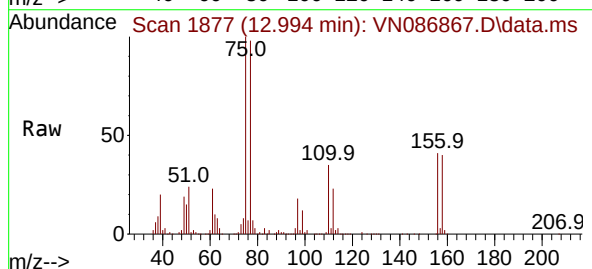
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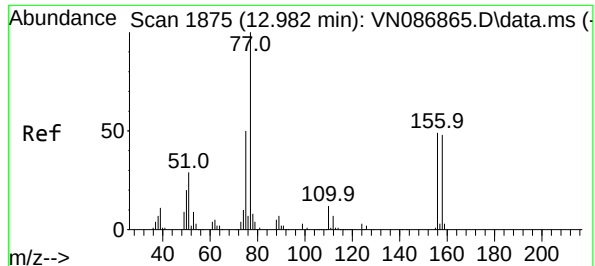
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#76
1,2,3-Trichloropropane
Concen: 143.665 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 75 Resp: 468041
Ion Ratio Lower Upper
75 100
77 166.0 79.3 237.9





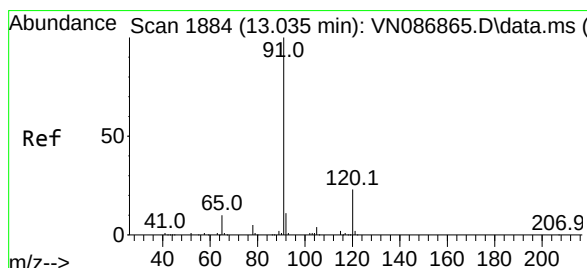
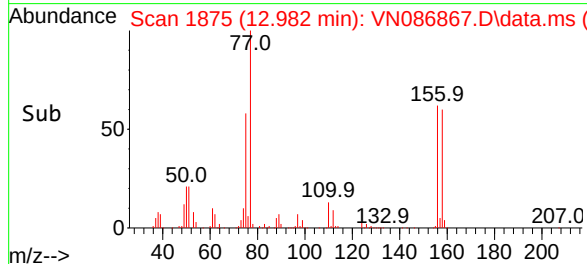
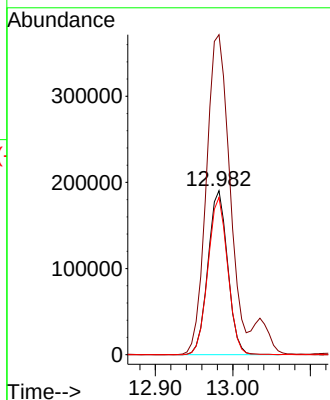
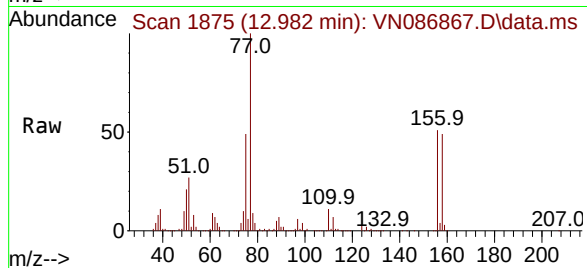
#77
Bromobenzene
Concen: 147.077 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:156 Resp: 335734
Ion Ratio Lower Upper
156 100
77 231.5 117.7 353.1
158 96.3 48.1 144.4

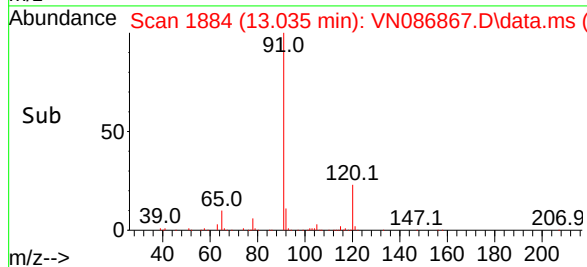
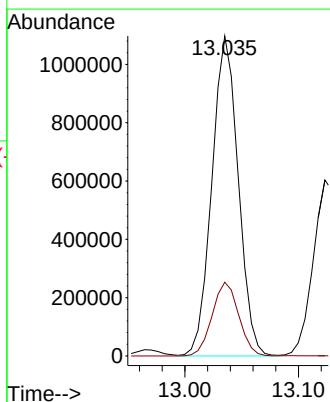
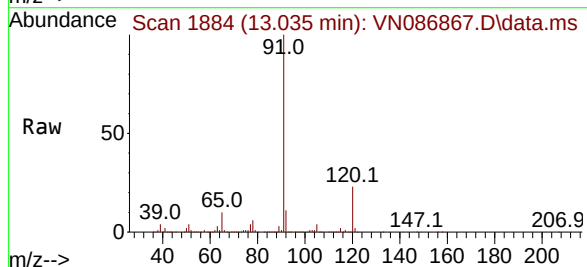
Manual Integrations
APPROVED

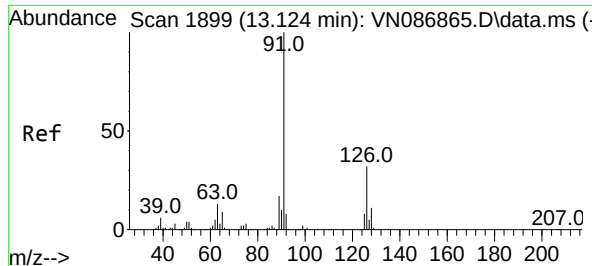
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#78
n-propylbenzene
Concen: 146.301 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 91 Resp: 1769694
Ion Ratio Lower Upper
91 100
120 23.2 11.4 34.2





#79

2-Chlorotoluene

Concen: 144.317 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 1046910

Ion Ratio Lower Upper

91 100

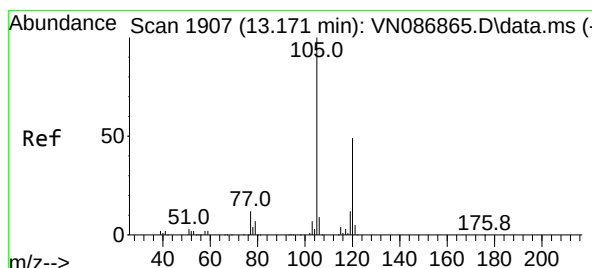
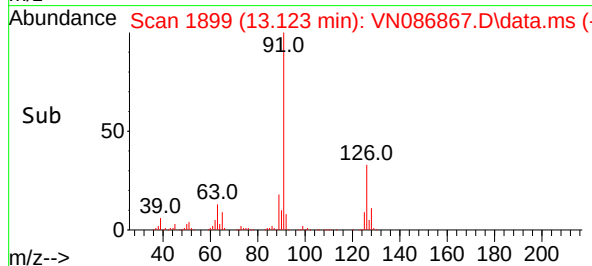
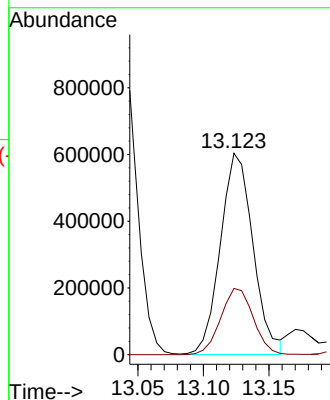
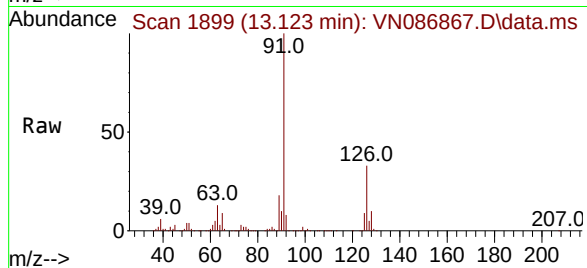
126 32.8 16.2 48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#80

1,3,5-Trimethylbenzene

Concen: 147.279 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086867.D

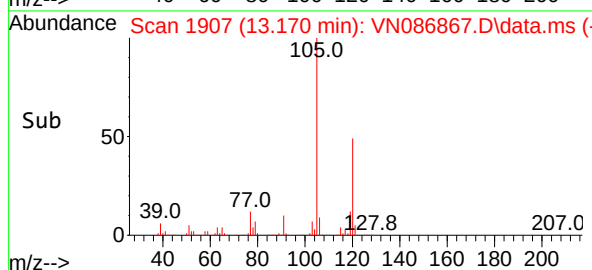
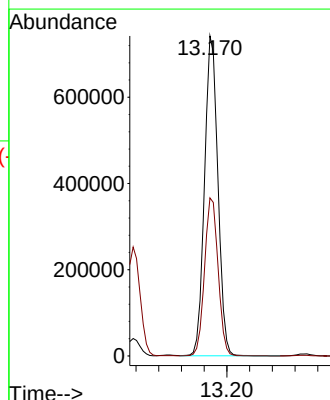
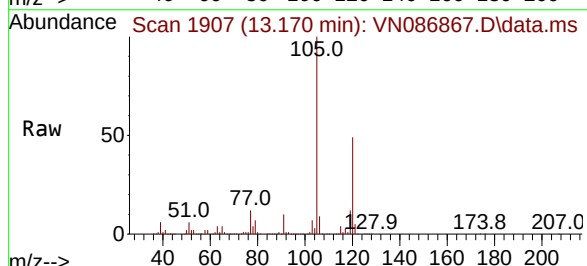
Acq: 06 Jun 2025 14:49

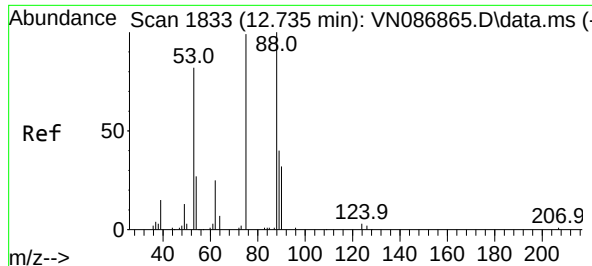
Tgt Ion:105 Resp: 1210325

Ion Ratio Lower Upper

105 100

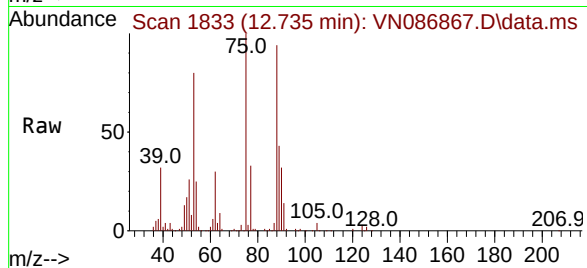
120 50.0 24.9 74.6





#81
trans-1,4-Dichloro-2-butene
Concen: 153.277 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

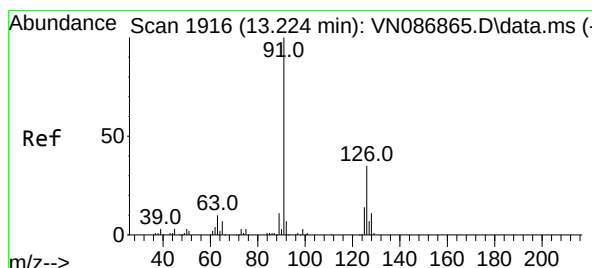
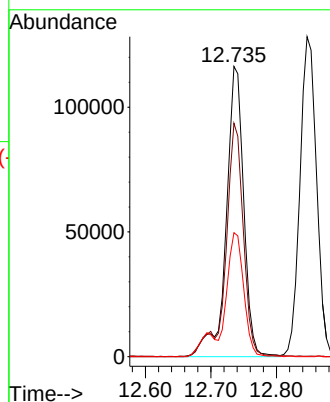
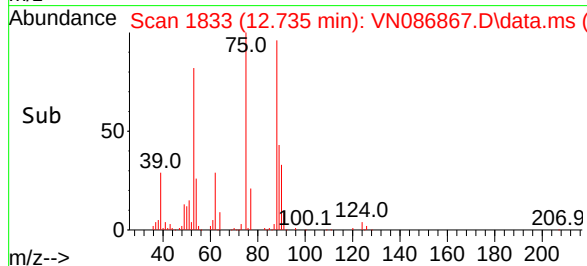
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion: 75 Resp: 21625
Ion Ratio Lower Upper
75 100
53 81.3 66.6 99.8
89 40.0 36.7 55.1

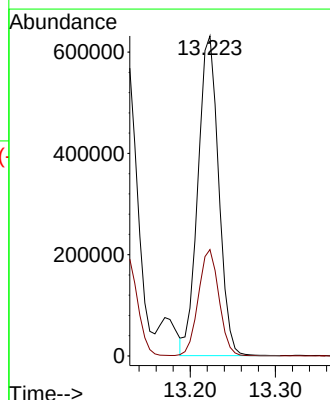
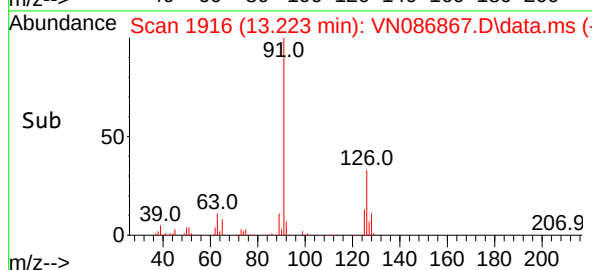
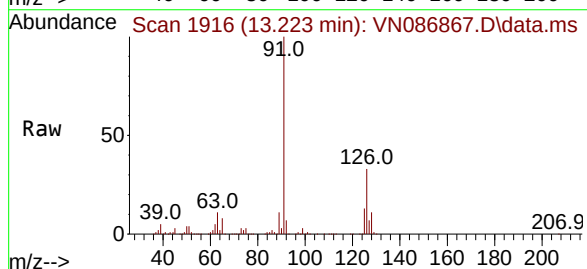
Manual Integrations
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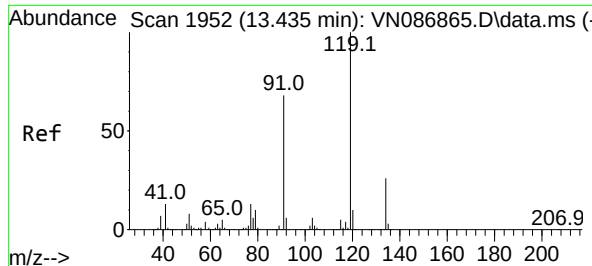
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#82
4-Chlorotoluene
Concen: 144.900 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

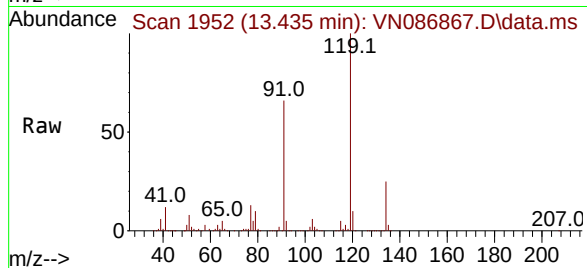
Tgt Ion: 91 Resp: 1063581
Ion Ratio Lower Upper
91 100
126 33.4 16.7 50.1





#83
tert-Butylbenzene
Concen: 145.352 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

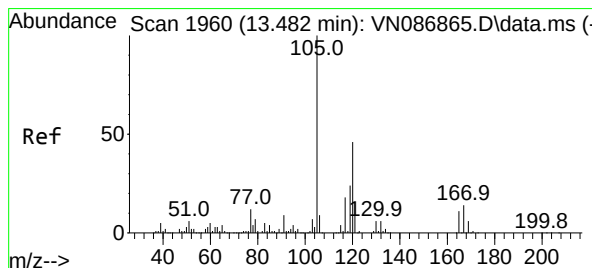
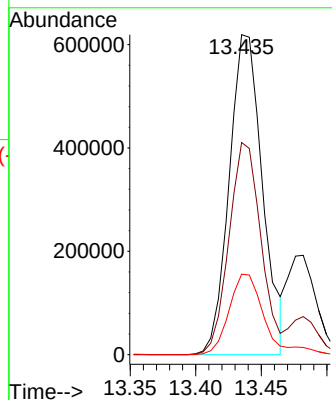
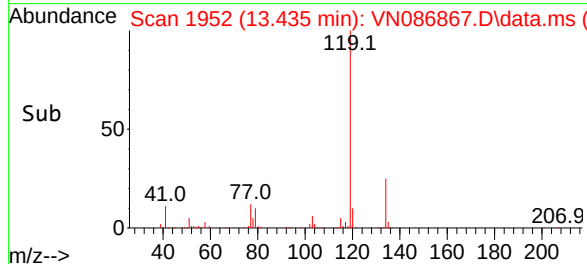
Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150



Tgt Ion:119 Resp: 1093400
Ion Ratio Lower Upper
119 100
91 63.8 32.1 96.5
134 26.7 13.4 40.1

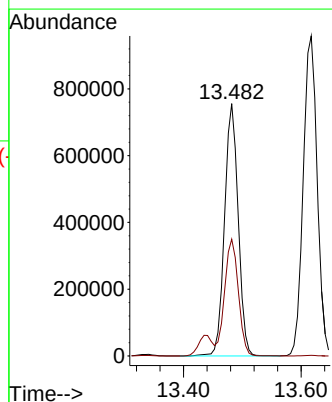
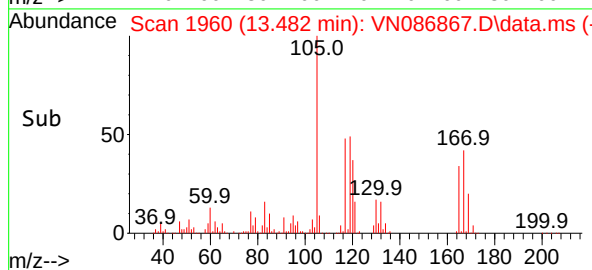
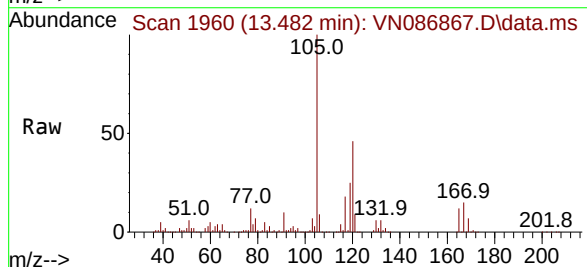
Manual Integrations
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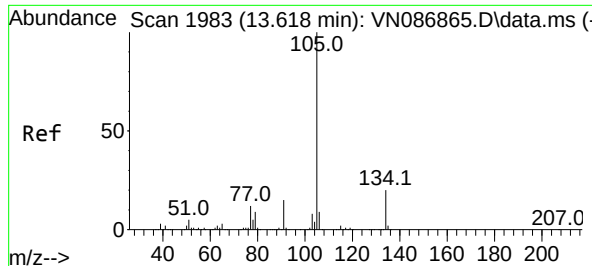
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#84
1,2,4-Trimethylbenzene
Concen: 147.626 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:105 Resp: 1216529
Ion Ratio Lower Upper
105 100
120 46.7 23.2 69.6





#85

sec-Butylbenzene

Concen: 144.885 ug/l

RT: 13.617 min Scan# 1983

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDICC150

Tgt Ion:105 Resp: 1582762

Ion Ratio Lower Upper

105 100

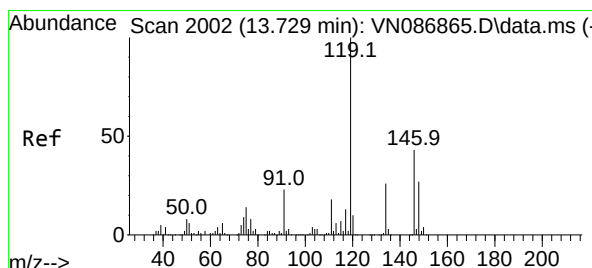
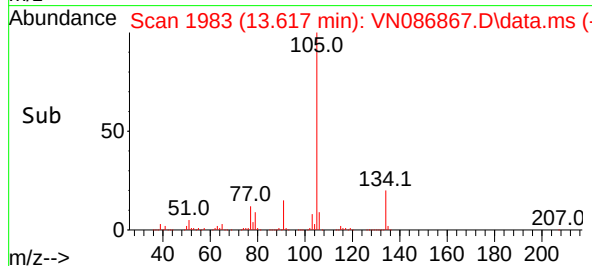
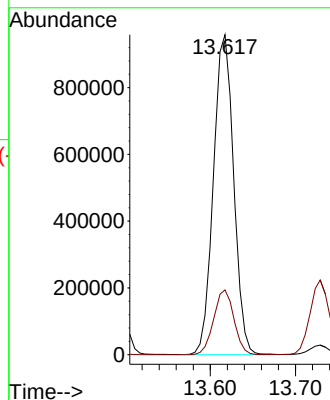
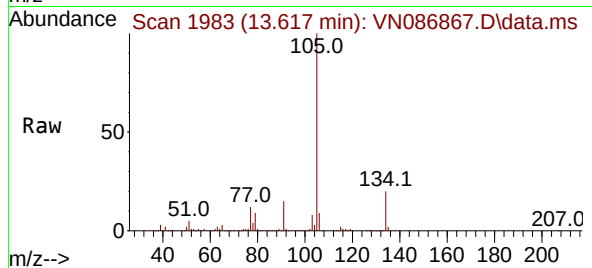
134 20.3 10.0 30.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#86

p-Isopropyltoluene

Concen: 146.482 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

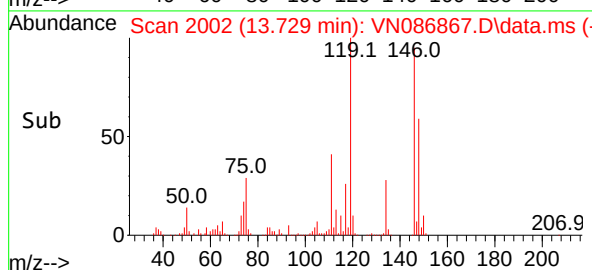
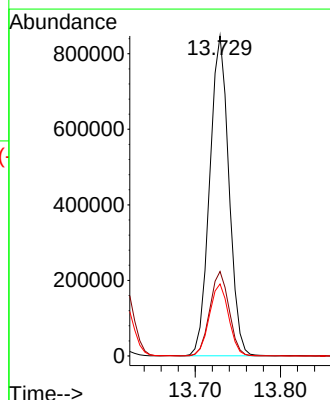
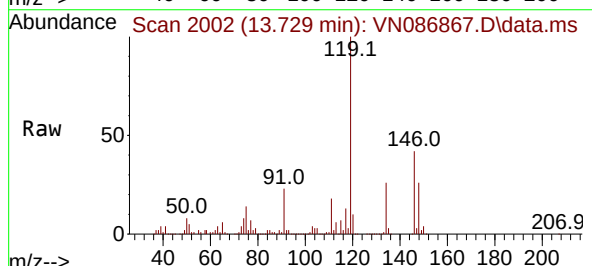
Tgt Ion:119 Resp: 1322780

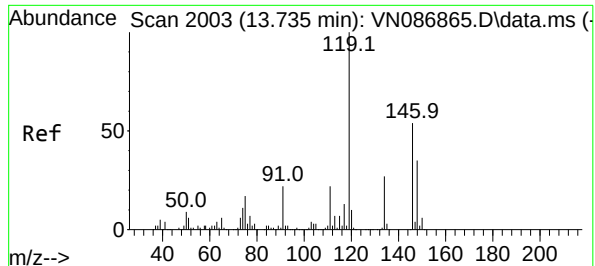
Ion Ratio Lower Upper

119 100

134 26.4 13.5 40.4

91 22.7 11.5 34.4





#87

1,3-Dichlorobenzene

Concen: 142.939 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 641960

Ion Ratio Lower Upper

146 100

111 42.1 20.9 62.8

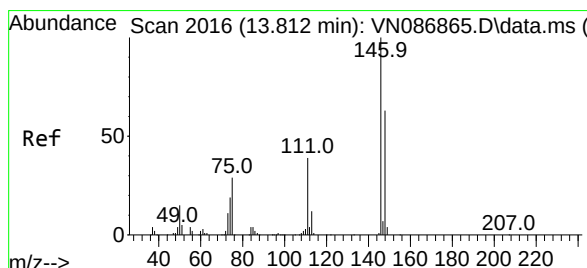
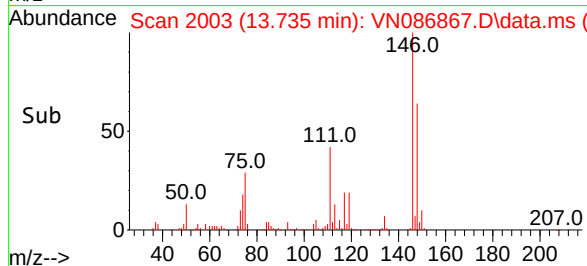
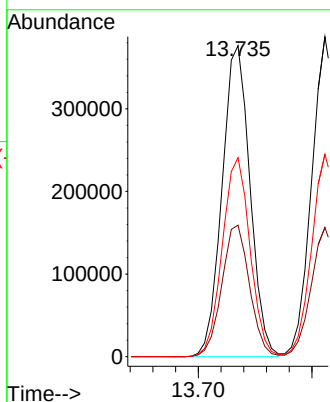
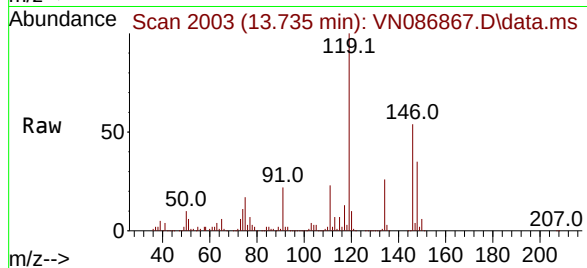
148 63.8 32.0 96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 141.124 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

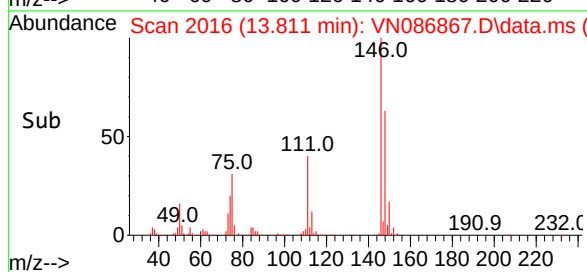
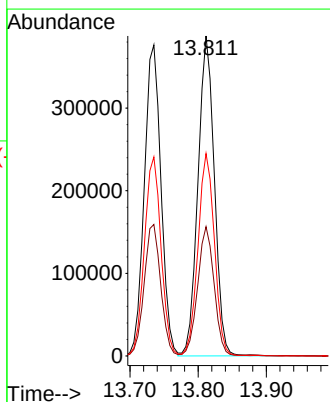
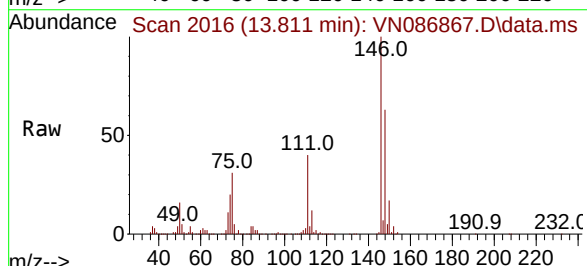
Tgt Ion:146 Resp: 646188

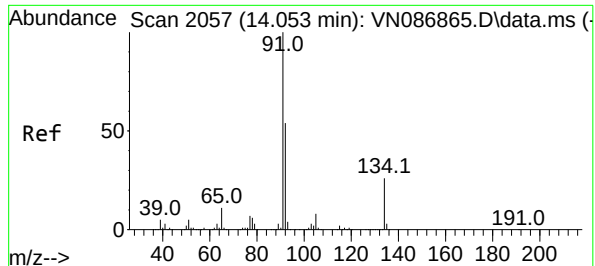
Ion Ratio Lower Upper

146 100

111 40.2 19.9 59.7

148 63.2 31.8 95.4





#89

n-Butylbenzene

Concen: 143.117 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 1251819

Ion Ratio Lower Upper

91 100

92 54.6 27.5 82.4

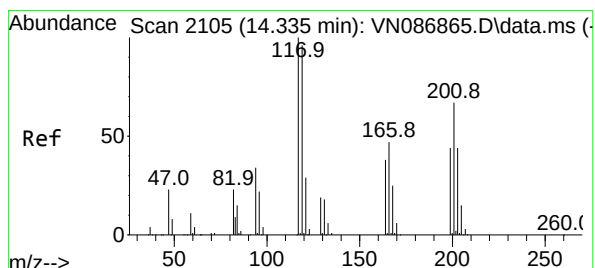
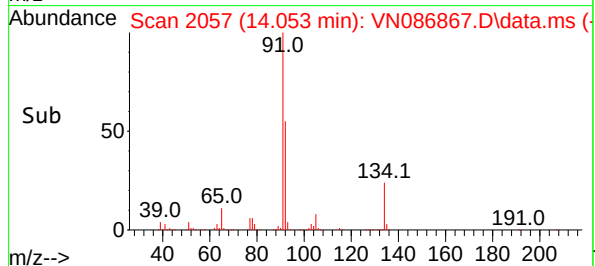
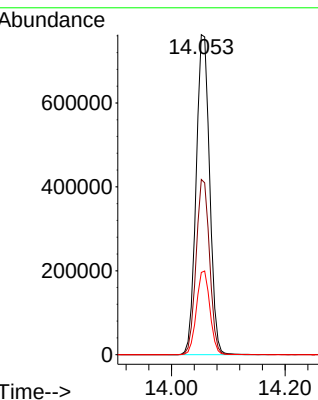
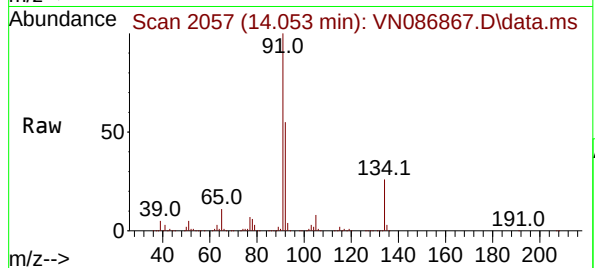
134 26.1 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 150.387 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. -0.000 min

Lab File: VN086867.D

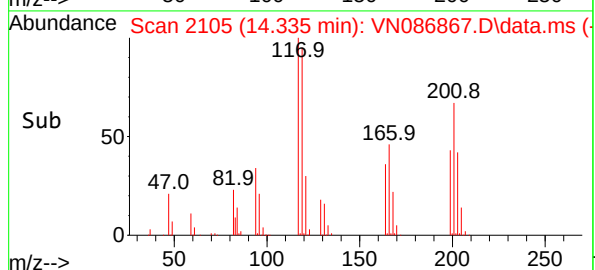
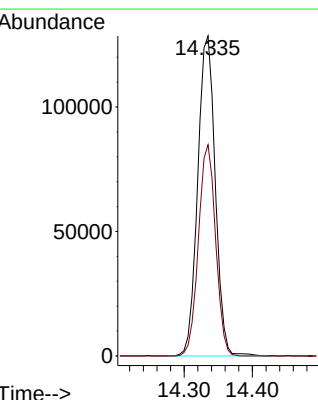
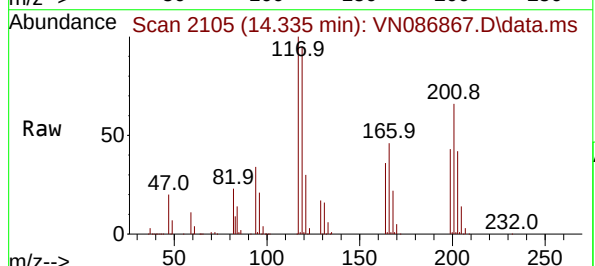
Acq: 06 Jun 2025 14:49

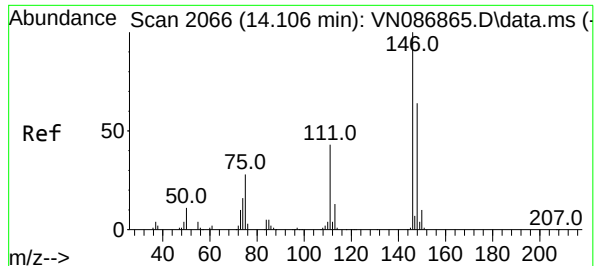
Tgt Ion:117 Resp: 230195

Ion Ratio Lower Upper

117 100

201 64.5 33.2 99.6





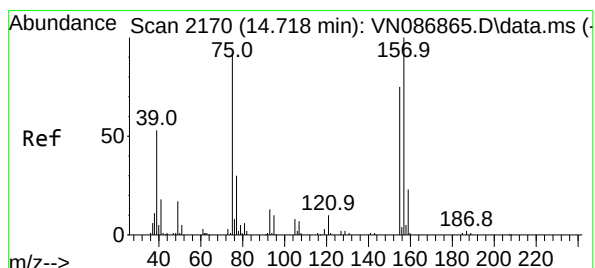
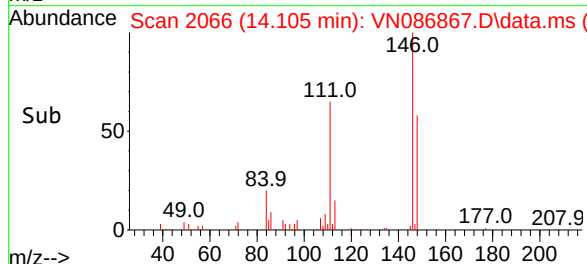
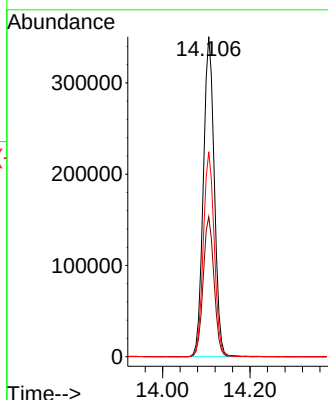
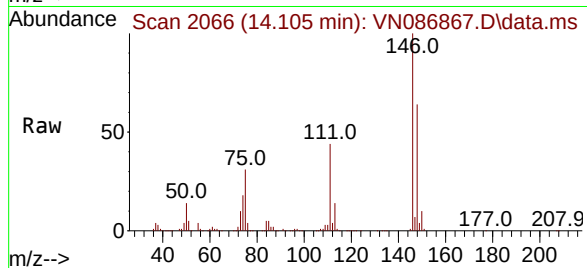
#91
1,2-Dichlorobenzene
Concen: 142.108 ug/l
RT: 14.105 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:146 Resp: 61317
Ion Ratio Lower Upper
146 100
111 43.4 21.6 64.6
148 63.8 31.7 95.1

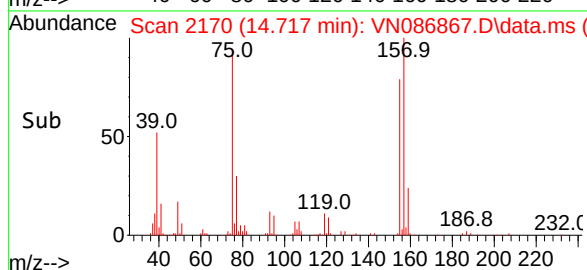
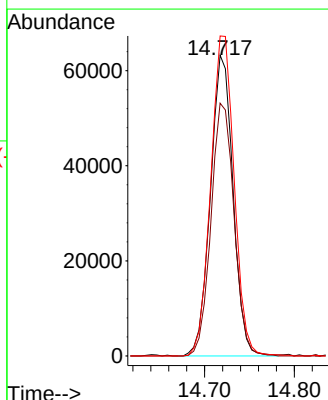
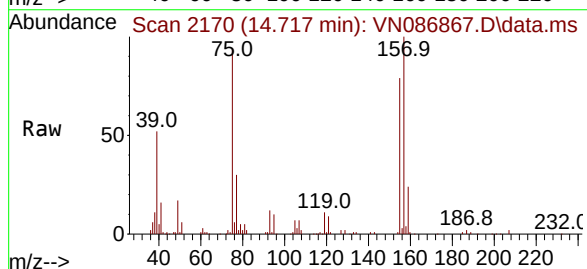
Manual Integrations
APPROVED

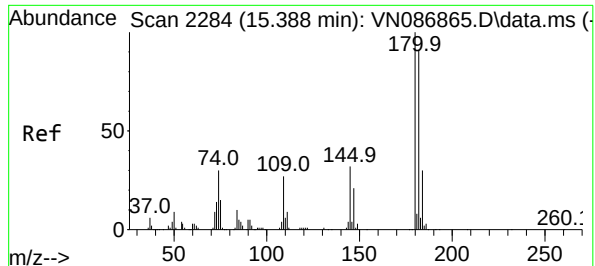
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 137.242 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion: 75 Resp: 110677
Ion Ratio Lower Upper
75 100
155 85.5 41.1 123.4
157 110.2 52.7 158.1





#93

1,2,4-Trichlorobenzene

Concen: 147.940 ug/l

RT: 15.394 min Scan# 2284

Delta R.T. 0.006 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

Instrument :

MSVOA_N

ClientSampleId :

VSTDIC150

Tgt Ion:180 Resp: 40762

Ion Ratio Lower Upper

180 100

182 95.0 46.9 140.7

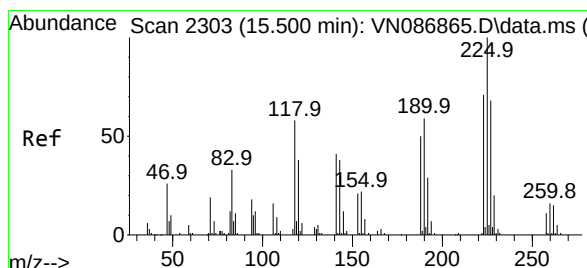
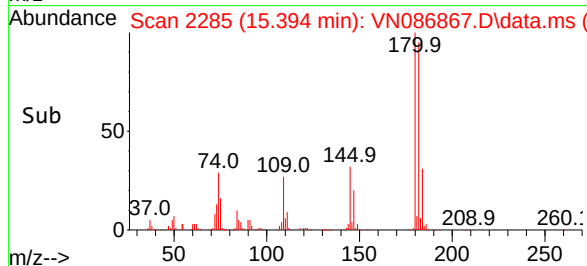
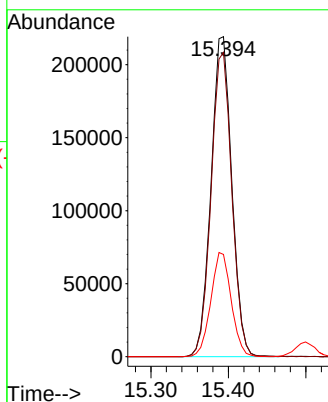
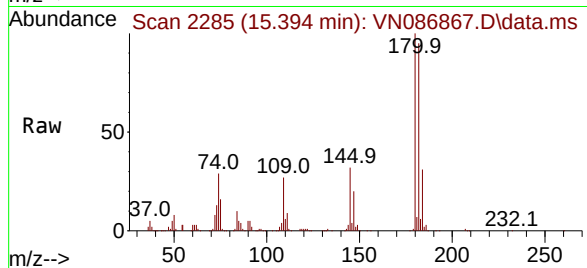
145 32.0 16.0 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#94

Hexachlorobutadiene

Concen: 147.264 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN086867.D

Acq: 06 Jun 2025 14:49

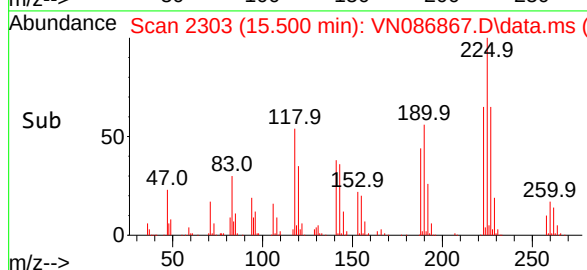
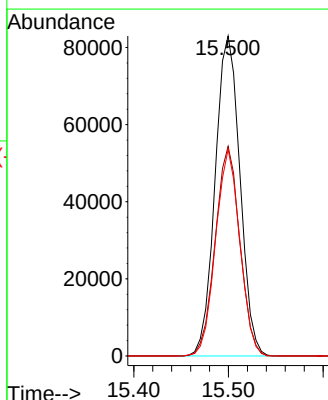
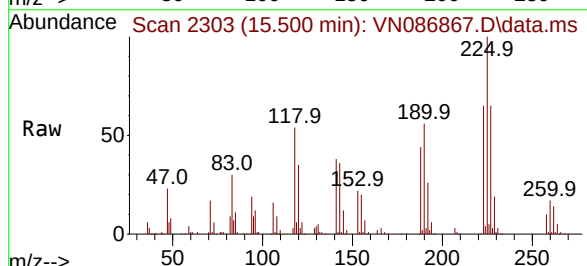
Tgt Ion:225 Resp: 151172

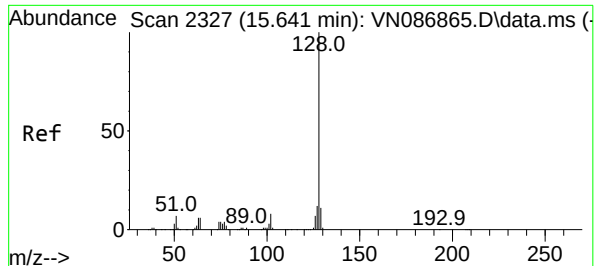
Ion Ratio Lower Upper

225 100

223 64.8 33.5 100.4

227 63.0 31.1 93.5





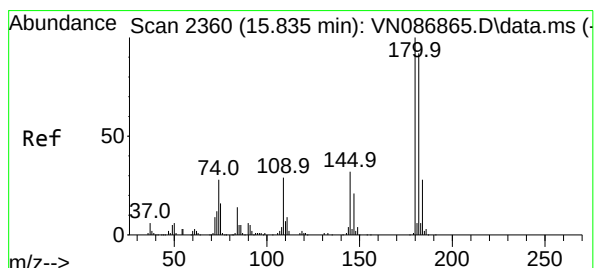
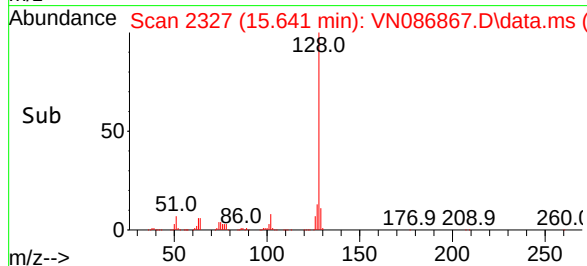
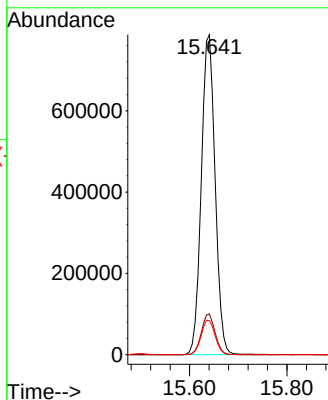
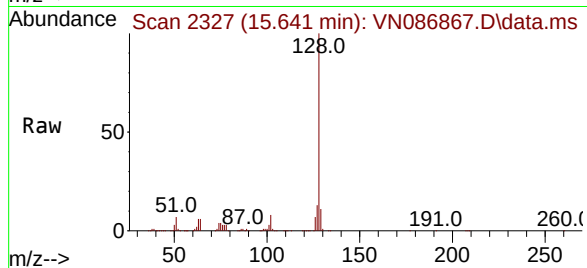
#95
Naphthalene
Concen: 150.743 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC150

Tgt Ion:128 Resp: 154598
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.2
129 10.9 8.8 13.2

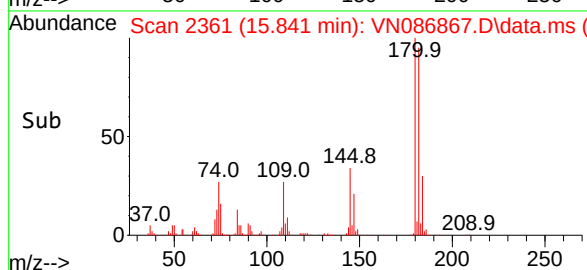
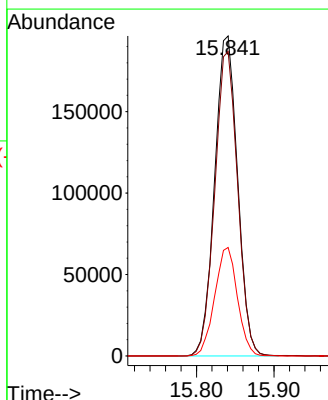
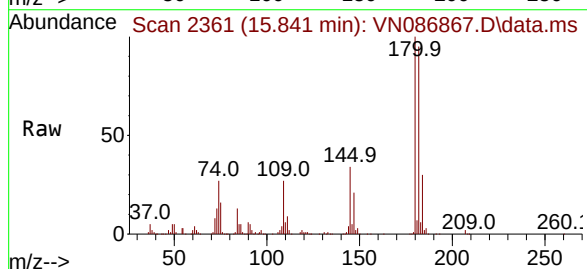
Manual Integrations
APPROVED

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



#96
1,2,3-Trichlorobenzene
Concen: 147.743 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086867.D
Acq: 06 Jun 2025 14:49

Tgt Ion:180 Resp: 404450
Ion Ratio Lower Upper
180 100
182 94.7 47.0 141.0
145 33.6 16.6 49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086869.D
 Acq On : 06 Jun 2025 15:54
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN060625

Quant Time: Jun 07 02:16:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

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

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	218122	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	394140	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	348935	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	172710	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.588	65	152255	52.135	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 104.260%	
35) Dibromofluoromethane	8.177	113	127102	54.416	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 108.840%	
50) Toluene-d8	10.571	98	491265	53.129	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 106.260%	
62) 4-Bromofluorobenzene	12.847	95	185792	54.081	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 108.160%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.154	85	120237	55.286	ug/l	99
3) Chloromethane	2.401	50	139027	49.505	ug/l	99
4) Vinyl Chloride	2.554	62	151951	52.451	ug/l	99
5) Bromomethane	2.989	94	89638	55.292	ug/l	95
6) Chloroethane	3.154	64	95654	51.117	ug/l	96
7) Trichlorofluoromethane	3.524	101	196138	51.819	ug/l	97
8) Diethyl Ether	3.983	74	87405	53.001	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.395	101	127498	53.615	ug/l	99
10) Methyl Iodide	4.612	142	164080	53.227	ug/l	97
11) Tert butyl alcohol	5.542	59	207768	262.193	ug/l	99
12) 1,1-Dichloroethene	4.359	96	125461	51.678	ug/l	99
13) Acrolein	4.195	56	60336	240.545	ug/l	98
14) Allyl chloride	5.042	41	203344	50.504	ug/l	98
15) Acrylonitrile	5.736	53	479502	258.885	ug/l	100
16) Acetone	4.448	43	382146	246.750	ug/l	98
17) Carbon Disulfide	4.736	76	339466	50.550	ug/l	100
18) Methyl Acetate	5.042	43	234290	51.912	ug/l	100
19) Methyl tert-butyl Ether	5.818	73	454641	51.720	ug/l	100
20) Methylene Chloride	5.295	84	143862	49.617	ug/l	97
21) trans-1,2-Dichloroethene	5.806	96	133535	49.437	ug/l	99
22) Diisopropyl ether	6.689	45	440080	51.853	ug/l	99
23) Vinyl Acetate	6.618	43	1828919	255.055	ug/l	99
24) 1,1-Dichloroethane	6.589	63	251473	51.487	ug/l	98
25) 2-Butanone	7.494	43	644194	255.897	ug/l	99
26) 2,2-Dichloropropane	7.500	77	216678	57.031	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	164985	51.073	ug/l	99
28) Bromochloromethane	7.824	49	108810	45.310	ug/l	99
29) Tetrahydrofuran	7.847	42	420891	256.656	ug/l	100
30) Chloroform	7.977	83	248429	50.933	ug/l	97
31) Cyclohexane	8.265	56	237836	50.212	ug/l	97
32) 1,1,1-Trichloroethane	8.177	97	209927	50.603	ug/l	97
36) 1,1-Dichloropropene	8.377	75	181414	52.123	ug/l	99
37) Ethyl Acetate	7.571	43	222090	50.125	ug/l	99
38) Carbon Tetrachloride	8.371	117	179281	52.466	ug/l	98
39) Methylcyclohexane	9.606	83	251231	52.686	ug/l	98
40) Benzene	8.612	78	579667	50.931	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
 Data File : VN086869.D
 Acq On : 06 Jun 2025 15:54
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN060625

Manual Integrations
 APPROVED

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

Quant Time: Jun 07 02:16:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.789	41	130903	52.607	ug/l	100
42) 1,2-Dichloroethane	8.677	62	177746	51.489	ug/l	100
43) Isopropyl Acetate	8.694	43	359378	50.536	ug/l	100
44) Trichloroethene	9.359	130	139763	51.788	ug/l	100
45) 1,2-Dichloropropane	9.624	63	142463	51.450	ug/l	99
46) Dibromomethane	9.712	93	97199	52.849	ug/l	98
47) Bromodichloromethane	9.894	83	196104	51.824	ug/l	100
48) Methyl methacrylate	9.688	41	168001	51.328	ug/l	98
49) 1,4-Dioxane	9.706	88	66102	1110.123	ug/l #	99
51) 4-Methyl-2-Pentanone	10.447	43	1146622	267.835	ug/l	99
52) Toluene	10.635	92	361963	52.040	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	224839	53.137	ug/l	99
54) cis-1,3-Dichloropropene	10.318	75	237774	52.519	ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	137998	51.562	ug/l	99
56) Ethyl methacrylate	10.882	69	241649	56.688	ug/l	98
57) 1,3-Dichloropropane	11.165	76	238572	51.386	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.165	63	625479	246.006	ug/l	100
59) 2-Hexanone	11.200	43	781717	283.478	ug/l	100
60) Dibromochloromethane	11.359	129	146749	52.627	ug/l	99
61) 1,2-Dibromoethane	11.471	107	142338	51.887	ug/l	99
64) Tetrachloroethene	11.106	164	111409	50.450	ug/l	98
65) Chlorobenzene	11.894	112	391661	50.892	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	129045	52.164	ug/l	99
67) Ethyl Benzene	11.965	91	683879	51.590	ug/l	98
68) m/p-Xylenes	12.071	106	527293	103.912	ug/l	98
69) o-Xylene	12.400	106	254600	52.387	ug/l	100
70) Styrene	12.412	104	438751	52.758	ug/l	99
71) Bromoform	12.582	173	100357	54.751	ug/l #	99
73) Isopropylbenzene	12.694	105	652045	51.823	ug/l	100
74) N-amyl acetate	12.506	43	238355	54.212	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.941	83	220643	51.763	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	220957m	53.821	ug/l	
77) Bromobenzene	12.982	156	150950	52.313	ug/l	100
78) n-propylbenzene	13.035	91	801180	52.397	ug/l	100
79) 2-Chlorotoluene	13.123	91	473629	51.650	ug/l	99
80) 1,3,5-Trimethylbenzene	13.171	105	548347	52.787	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	99341	55.702	ug/l	97
82) 4-Chlorotoluene	13.223	91	481403	51.884	ug/l	99
83) tert-Butylbenzene	13.441	119	499519	52.532	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	552333	53.024	ug/l	100
85) sec-Butylbenzene	13.618	105	723986	52.428	ug/l	100
86) p-Isopropyltoluene	13.729	119	606979	53.174	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	290810	51.224	ug/l	100
88) 1,4-Dichlorobenzene	13.812	146	298412	51.557	ug/l	100
89) n-Butylbenzene	14.059	91	579636	52.424	ug/l	100
90) Hexachloroethane	14.335	117	102254	52.847	ug/l	100
91) 1,2-Dichlorobenzene	14.106	146	280025	51.340	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.723	75	50115	49.161	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	181064	51.986	ug/l	99
94) Hexachlorobutadiene	15.500	225	68570	52.843	ug/l	99
95) Naphthalene	15.641	128	674187	52.005	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	174888	50.539	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Manual Integrations
APPROVED

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

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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_N\Data\VN060625\
 Data File : VN086869.D
 Acq On : 06 Jun 2025 15:54
 Operator : JC\MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

ICVNVN060625

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025

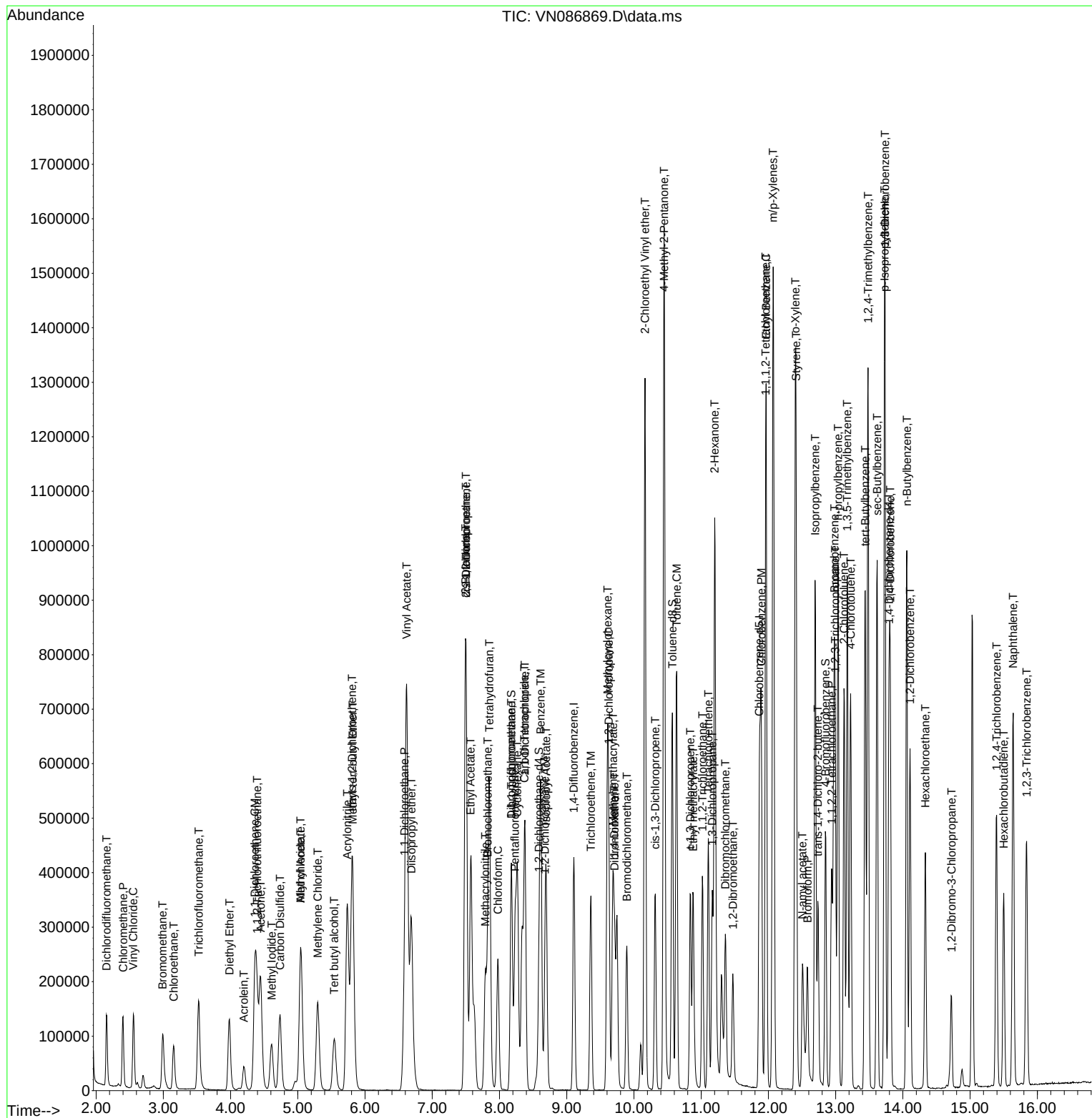
Quant Time: Jun 07 02:16:19 2025

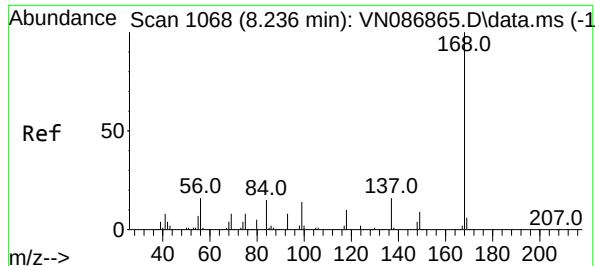
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M

Quant Title : SW846 8260

QLast Update : Sat Jun 07 02:12:50 2025

Response via : Initial Calibration





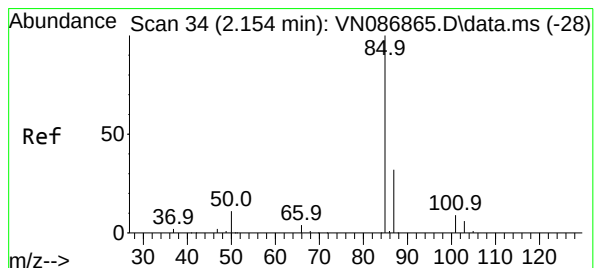
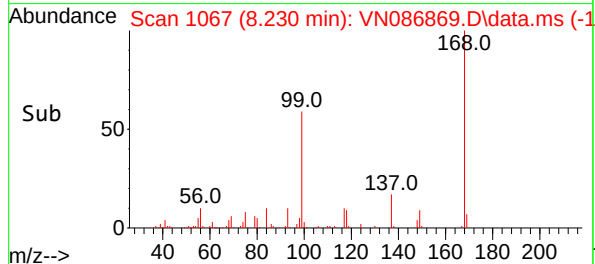
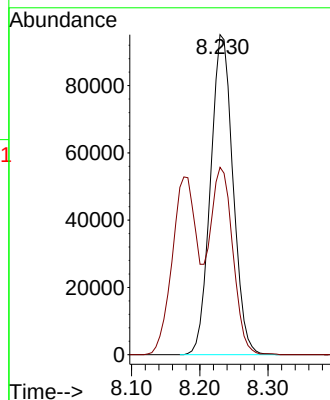
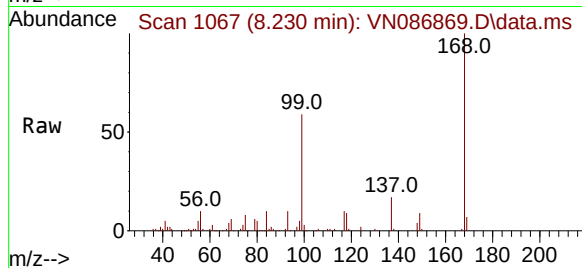
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:168 Resp: 21812
Ion Ratio Lower Upper
168 100
99 58.6 49.1 73.7

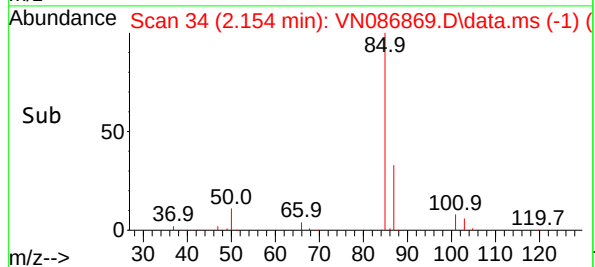
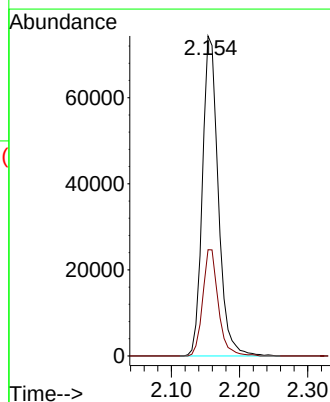
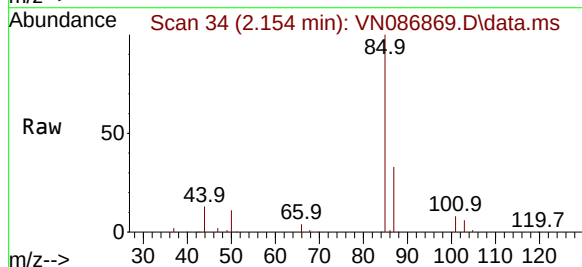
Manual Integrations
APPROVED

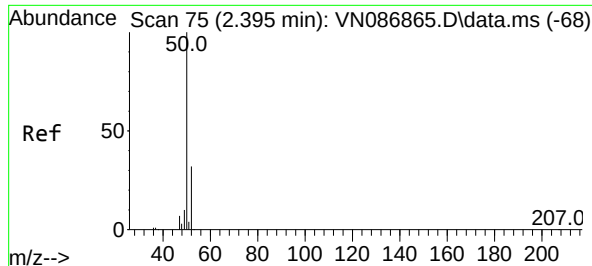
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 55.286 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

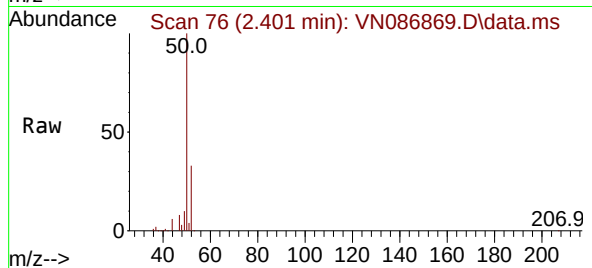
Tgt Ion: 85 Resp: 120237
Ion Ratio Lower Upper
85 100
87 33.2 16.2 48.6





#3
Chloromethane
Concen: 49.505 ug/l
RT: 2.401 min Scan# 75
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

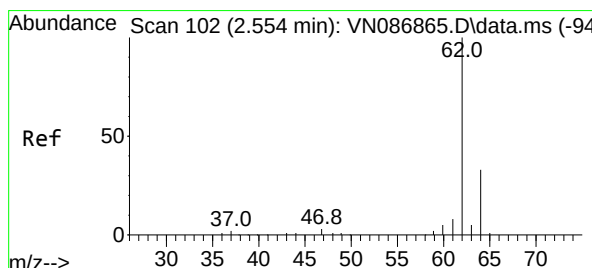
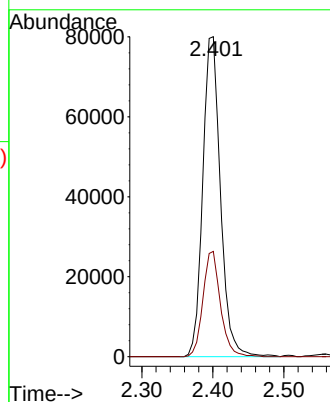
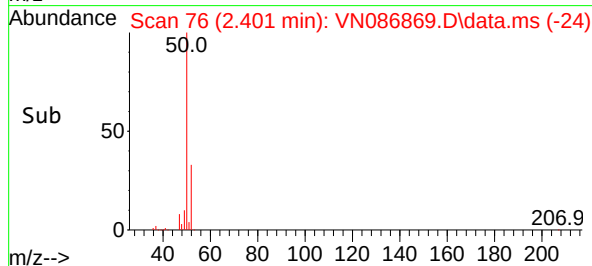
Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625



Tgt Ion: 50 Resp: 13902
Ion Ratio Lower Upper
50 100
52 32.9 25.7 38.5

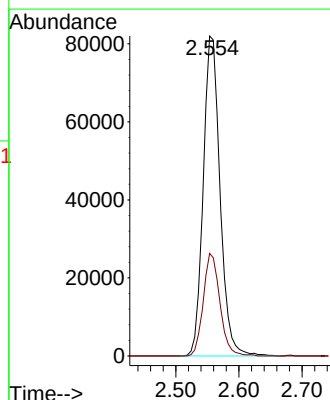
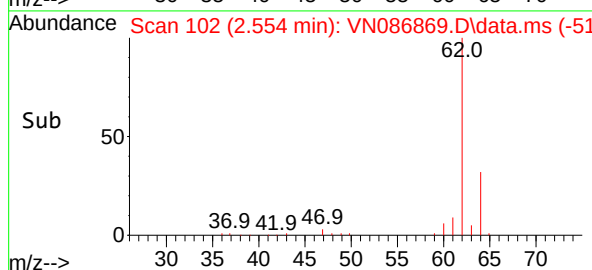
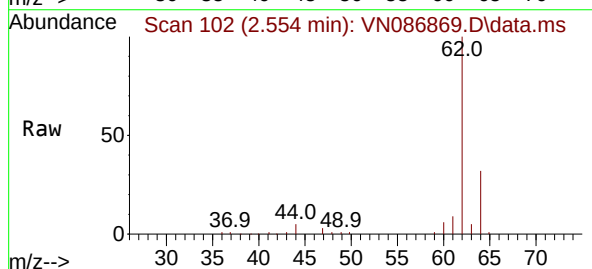
Manual Integrations
APPROVED

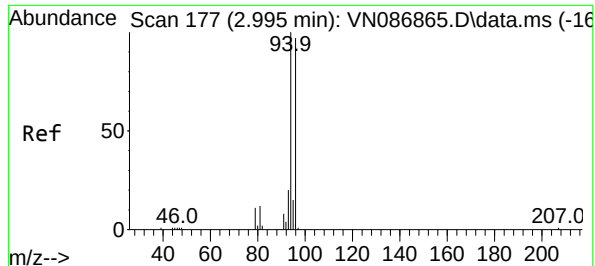
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 52.451 ug/l
RT: 2.554 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 62 Resp: 151951
Ion Ratio Lower Upper
62 100
64 32.0 26.0 39.0





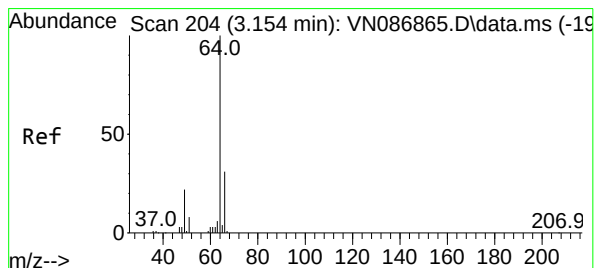
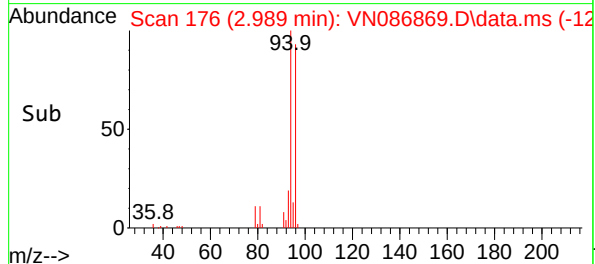
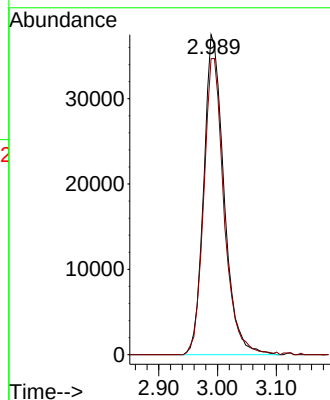
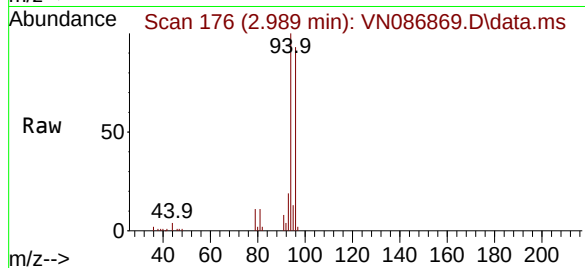
#5
Bromomethane
Concen: 55.292 ug/l
RT: 2.989 min Scan# 176
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 94 Resp: 89638
Ion Ratio Lower Upper
94 100
96 92.5 77.9 116.9

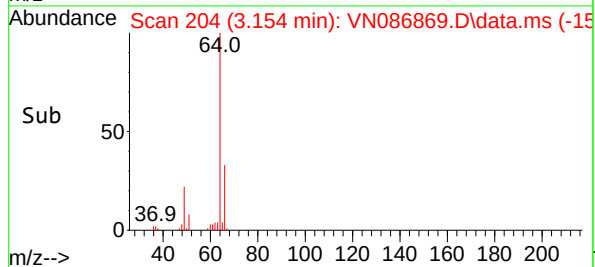
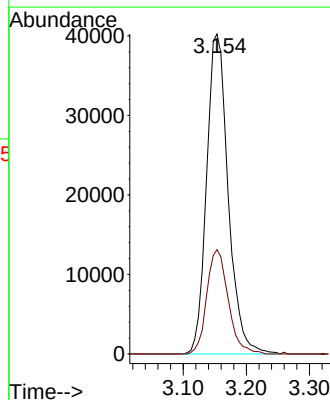
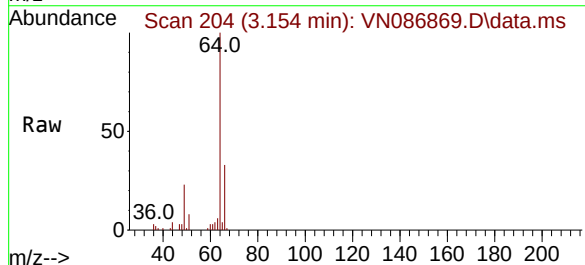
Manual Integrations
APPROVED

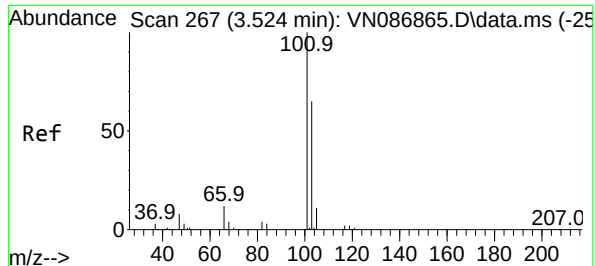
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#6
Chloroethane
Concen: 51.117 ug/l
RT: 3.154 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

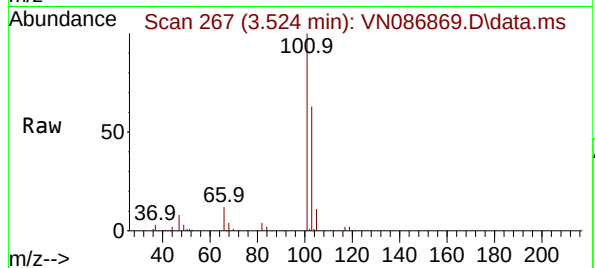
Tgt Ion: 64 Resp: 95654
Ion Ratio Lower Upper
64 100
66 32.6 24.6 36.8





#7
Trichlorofluoromethane
Concen: 51.819 ug/l
RT: 3.524 min Scan# 267
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

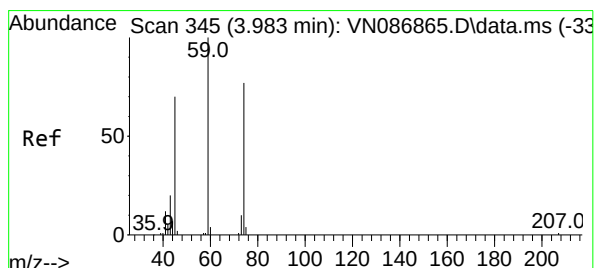
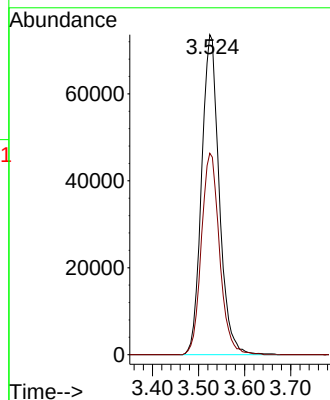
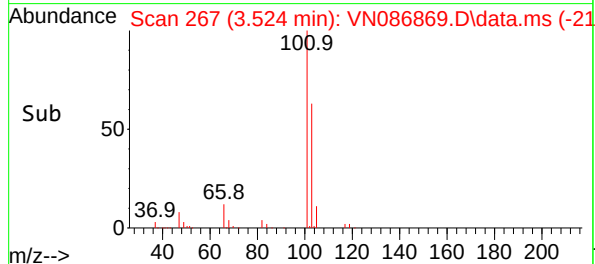
Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625



Tgt Ion: 101 Resp: 196138
Ion Ratio Lower Upper
101 100
103 62.9 52.2 78.2

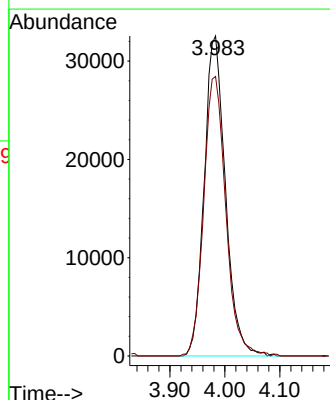
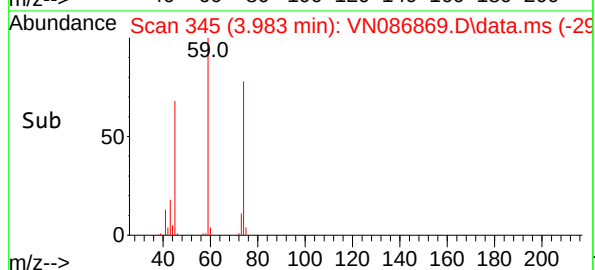
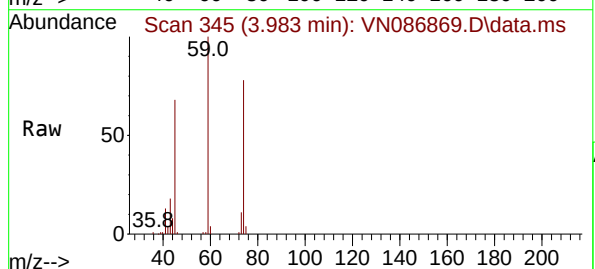
Manual Integrations
APPROVED

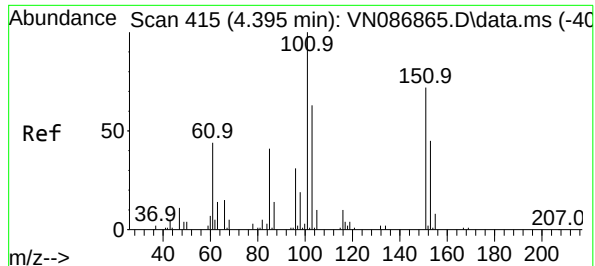
Reviewed By : John Carlone 06/09/2025
Supervised By : Mahesh Dadoda 06/09/2025



#8
Diethyl Ether
Concen: 53.001 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 74 Resp: 87405
Ion Ratio Lower Upper
74 100
45 90.9 45.5 136.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 53.615 ug/l

RT: 4.395 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

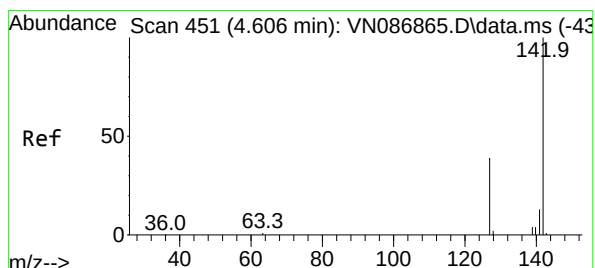
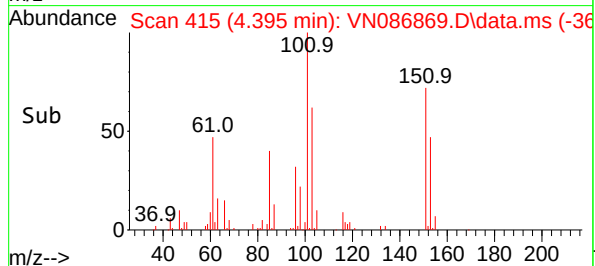
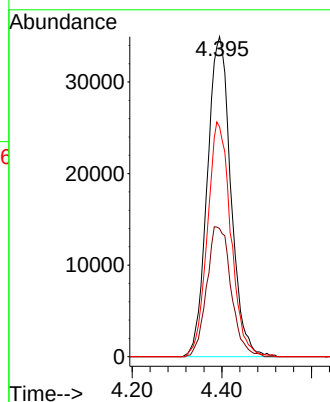
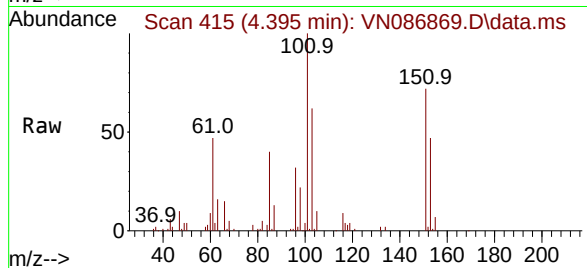
ICVVN060625

Tgt Ion:	101	Resp:	127498
Ion	Ratio	Lower	Upper
101	100		
85	41.9	33.8	50.8
151	72.8	58.7	88.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#10

Methyl Iodide

Concen: 53.227 ug/l

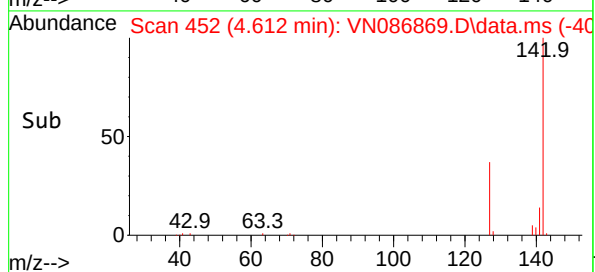
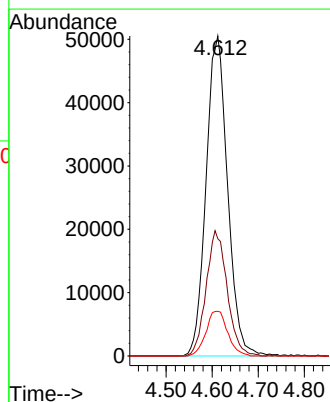
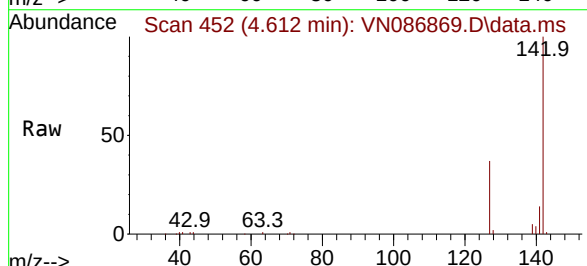
RT: 4.612 min Scan# 452

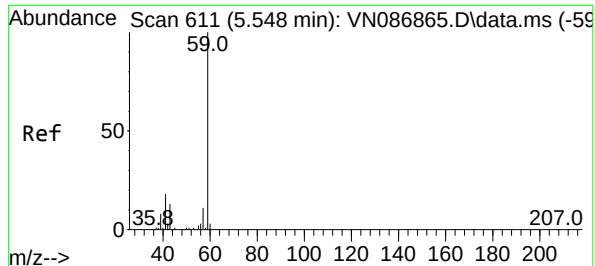
Delta R.T. 0.006 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Tgt Ion:	142	Resp:	164080
Ion	Ratio	Lower	Upper
142	100		
127	36.6	30.9	46.3
141	14.0	10.4	15.6





#11

Tert butyl alcohol

Concen: 262.193 ug/l

RT: 5.542 min Scan# 611

Delta R.T. -0.006 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

Tgt Ion: 59 Resp: 20776

Ion Ratio Lower Upper

59 100

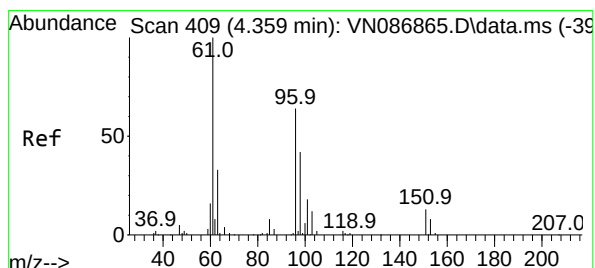
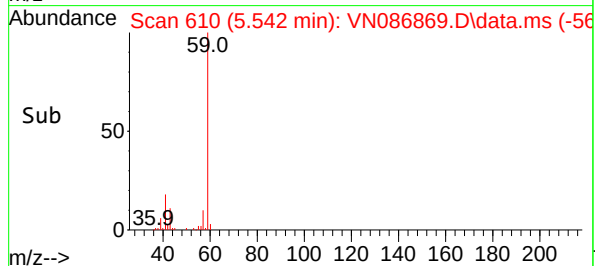
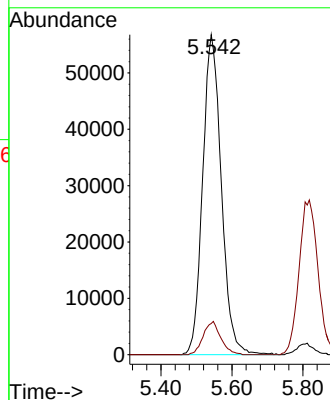
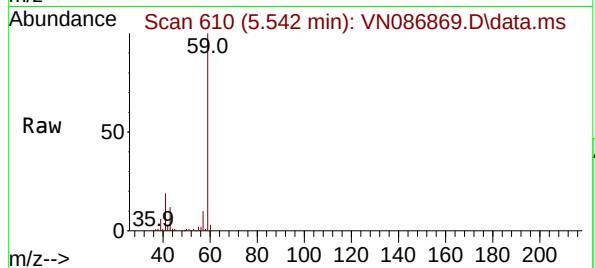
57 9.8 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#12

1,1-Dichloroethene

Concen: 51.678 ug/l

RT: 4.359 min Scan# 409

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

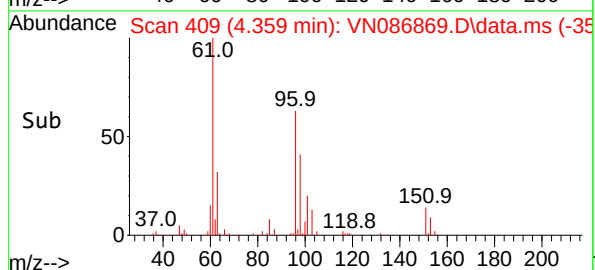
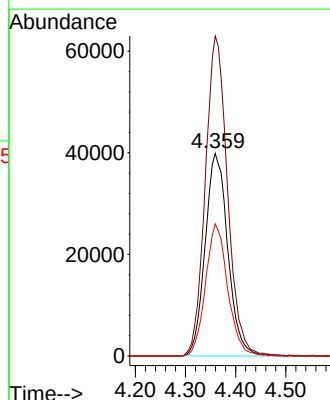
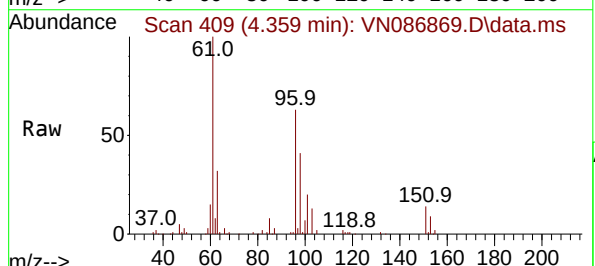
Tgt Ion: 96 Resp: 125461

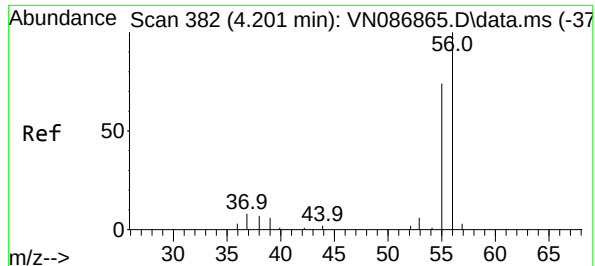
Ion Ratio Lower Upper

96 100

61 158.0 125.8 188.6

98 65.2 52.5 78.7





#13

Acrolein

Concen: 240.545 ug/l

RT: 4.195 min Scan# 381

Delta R.T. -0.006 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

Tgt Ion: 56 Resp: 60330

Ion Ratio Lower Upper

56 100

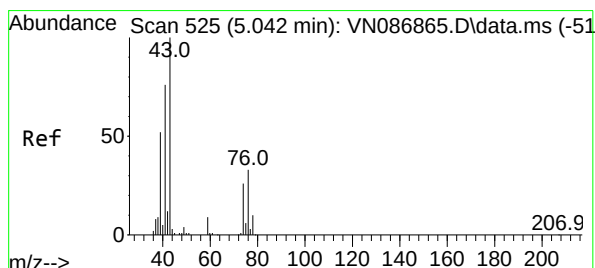
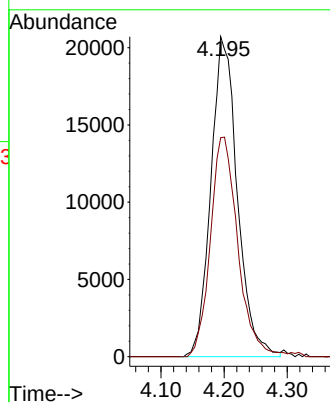
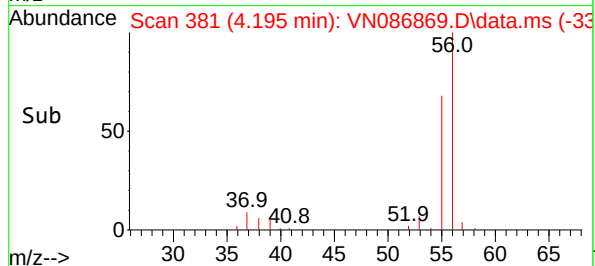
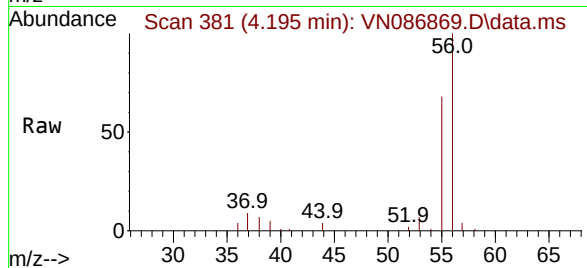
55 71.1 55.6 83.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 50.504 ug/l

RT: 5.042 min Scan# 525

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

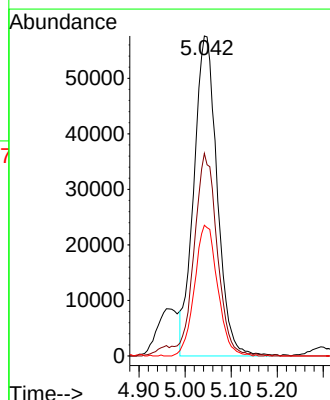
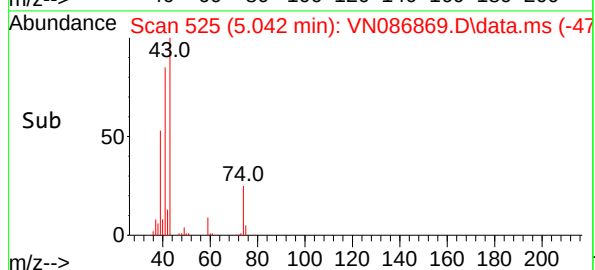
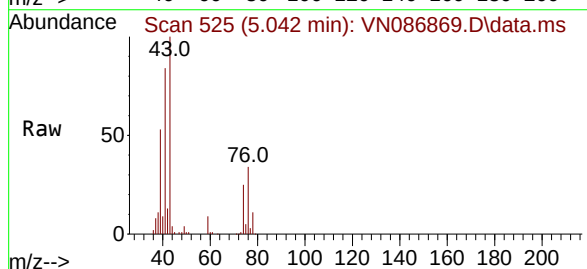
Tgt Ion: 41 Resp: 203344

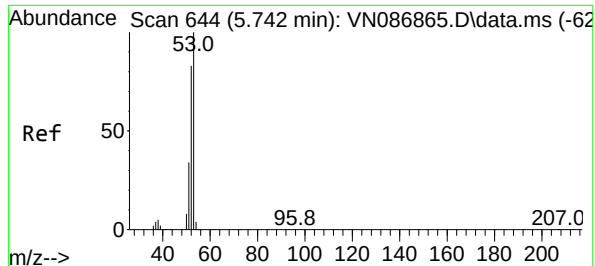
Ion Ratio Lower Upper

41 100

39 62.3 51.3 76.9

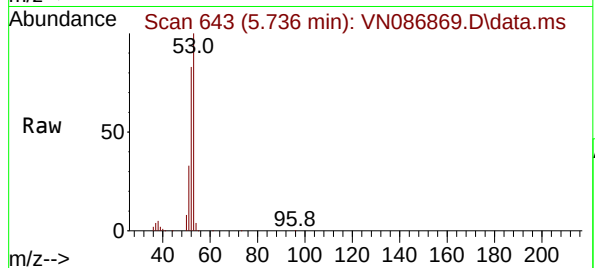
76 40.4 31.4 47.0





#15
Acrylonitrile
Concen: 258.885 ug/l
RT: 5.736 min Scan# 644
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

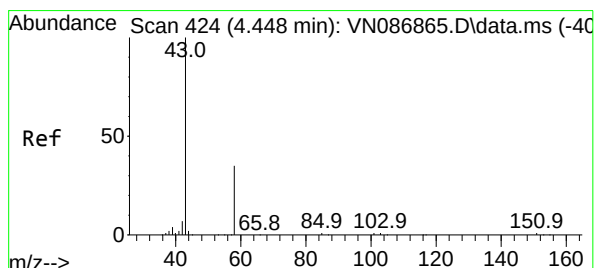
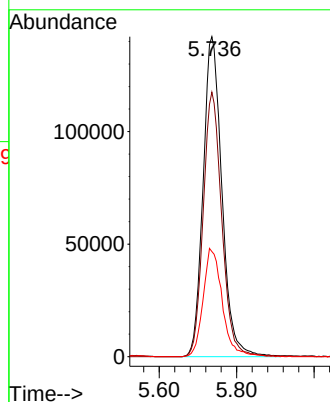
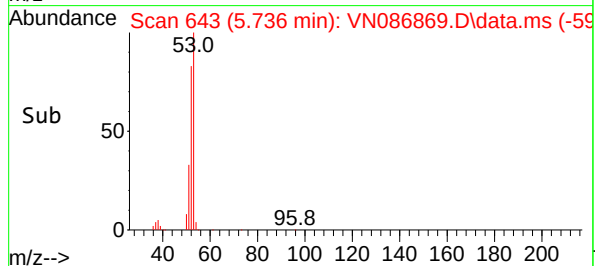
Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625



Tgt Ion: 53 Resp: 479502
Ion Ratio Lower Upper
53 100
52 81.3 65.0 97.6
51 34.5 27.2 40.8

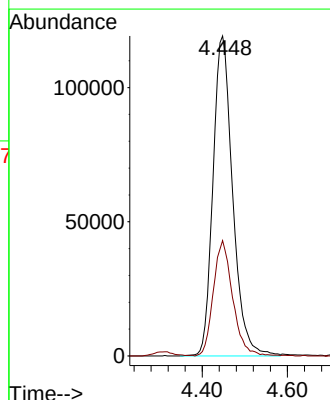
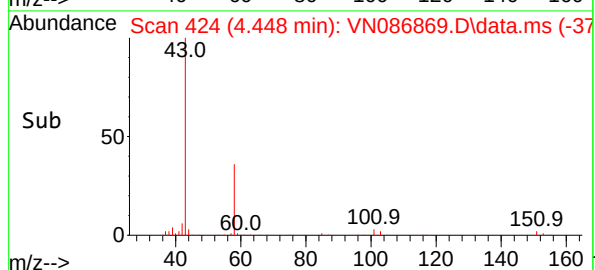
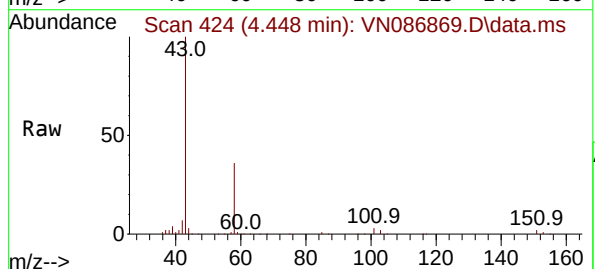
Manual Integrations
APPROVED

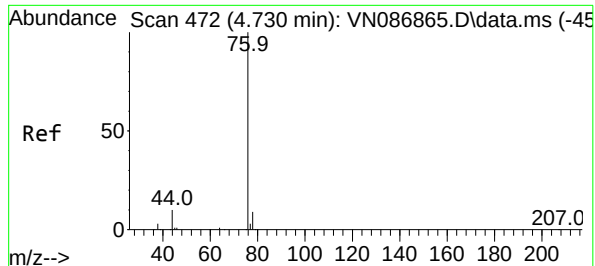
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#16
Acetone
Concen: 246.750 ug/l
RT: 4.448 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 43 Resp: 382146
Ion Ratio Lower Upper
43 100
58 35.9 28.0 42.0





#17

Carbon Disulfide

Concen: 50.550 ug/l

RT: 4.736 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

Tgt Ion: 76 Resp: 33946

Ion Ratio Lower Upper

76 100

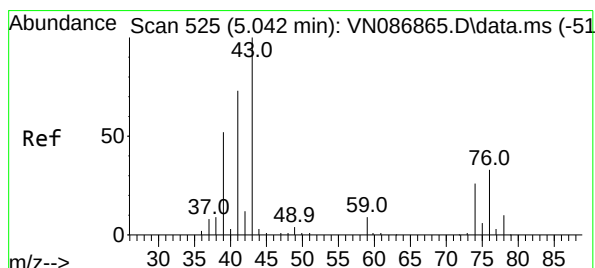
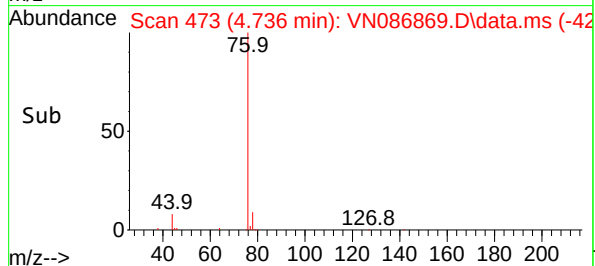
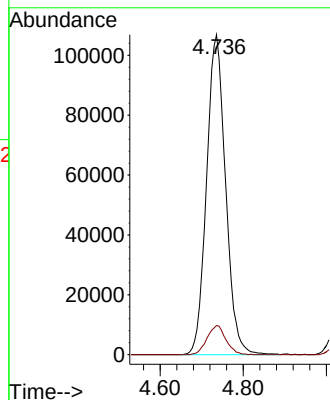
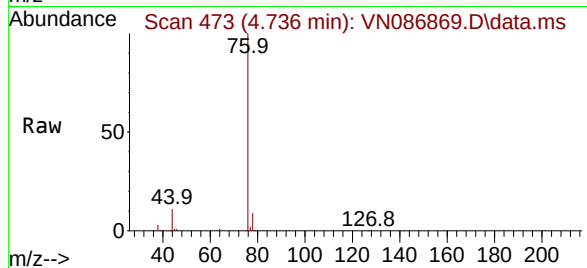
78 9.1 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#18

Methyl Acetate

Concen: 51.912 ug/l

RT: 5.042 min Scan# 525

Delta R.T. -0.000 min

Lab File: VN086869.D

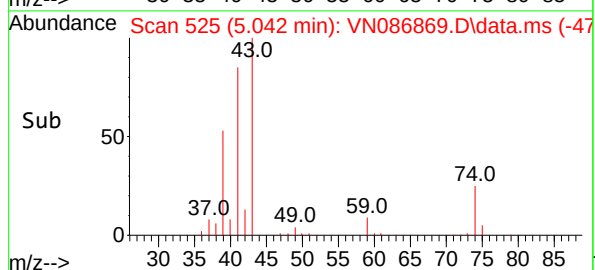
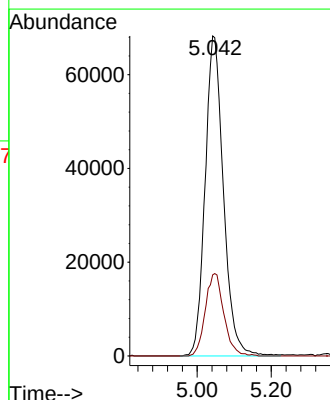
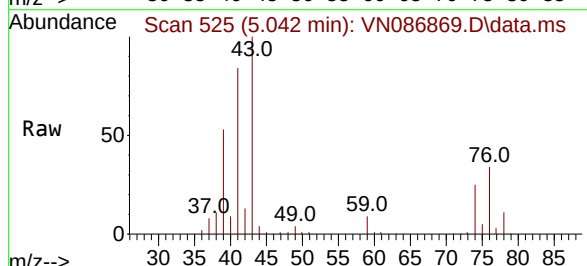
Acq: 06 Jun 2025 15:54

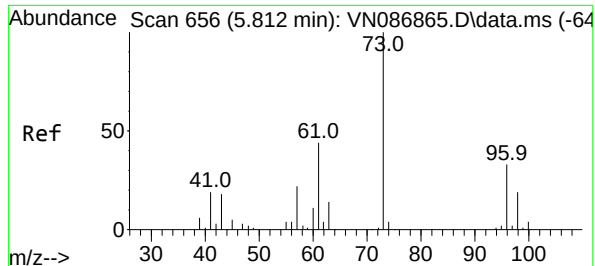
Tgt Ion: 43 Resp: 234290

Ion Ratio Lower Upper

43 100

74 25.9 20.7 31.1





#19

Methyl tert-butyl Ether

Concen: 51.720 ug/l

RT: 5.818 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

Tgt Ion: 73 Resp: 45464

Ion Ratio Lower Upper

73 100

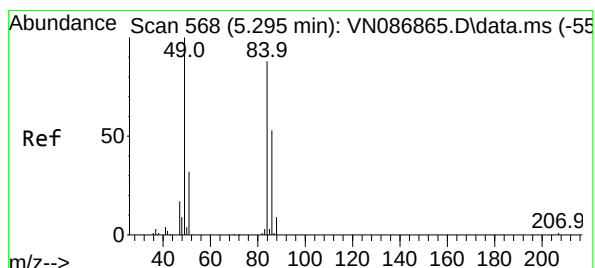
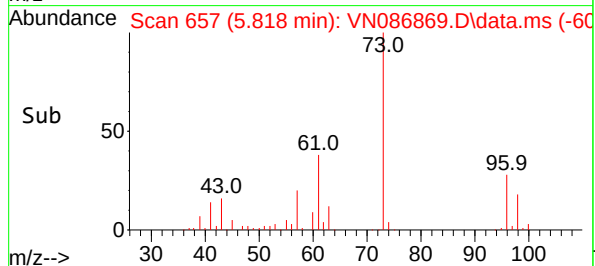
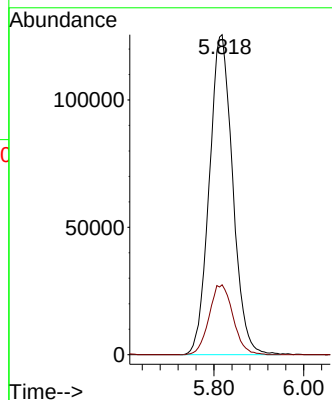
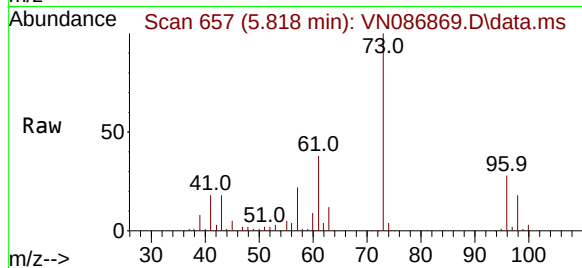
57 21.8 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#20

Methylene Chloride

Concen: 49.617 ug/l

RT: 5.295 min Scan# 568

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Tgt Ion: 84 Resp: 143862

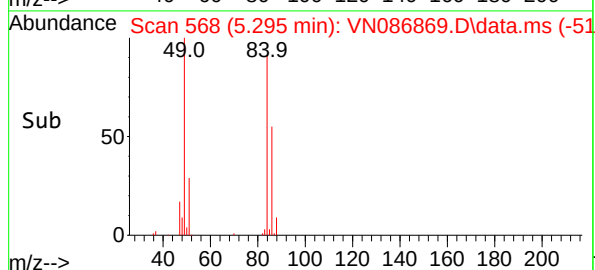
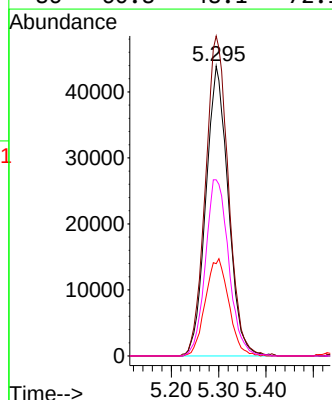
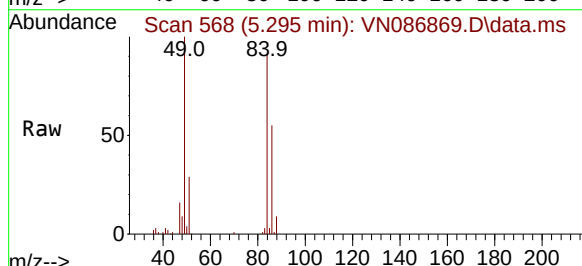
Ion Ratio Lower Upper

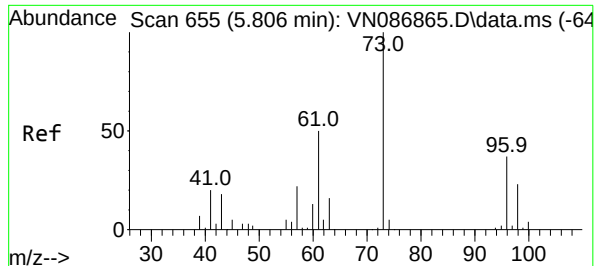
84 100

49 110.3 90.5 135.7

51 31.8 28.5 42.7

86 60.8 48.1 72.1





#21

trans-1,2-Dichloroethene

Concen: 49.437 ug/l

RT: 5.806 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

Tgt Ion: 96 Resp: 13353

Ion Ratio Lower Upper

96 100

61 136.8 109.2 163.8

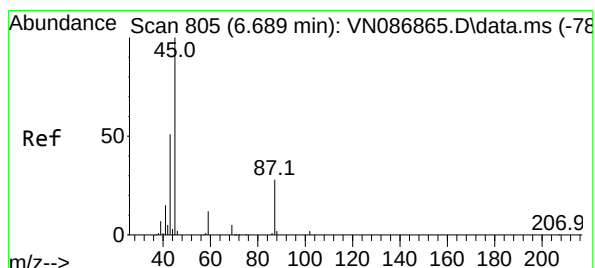
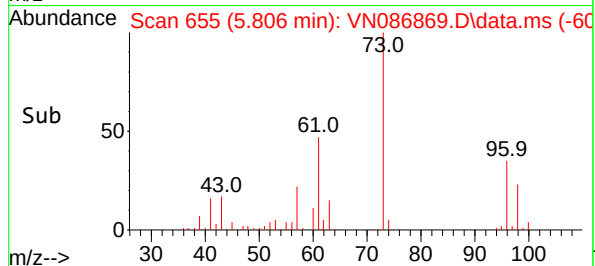
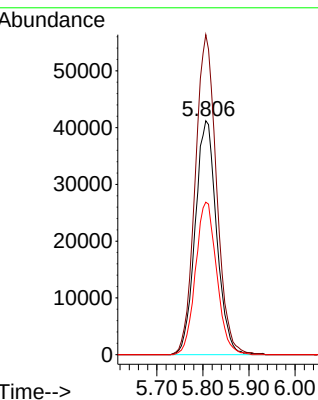
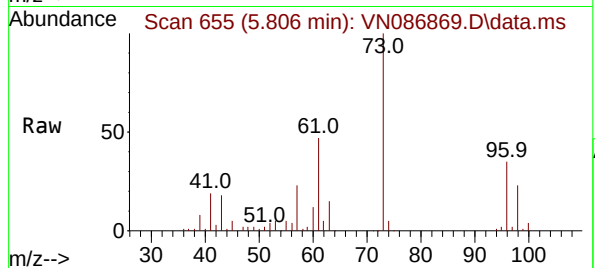
98 65.2 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#22

Diisopropyl ether

Concen: 51.853 ug/l

RT: 6.689 min Scan# 805

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Tgt Ion: 45 Resp: 440080

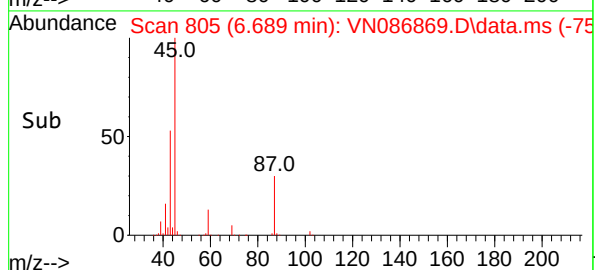
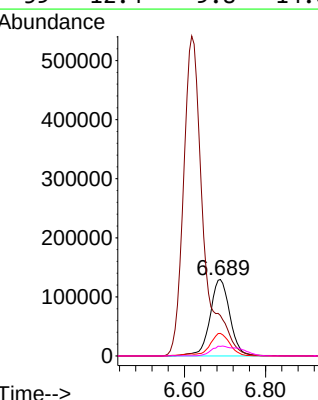
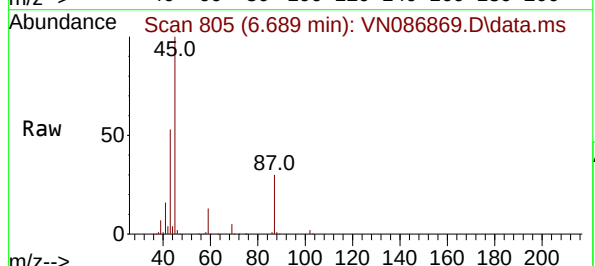
Ion Ratio Lower Upper

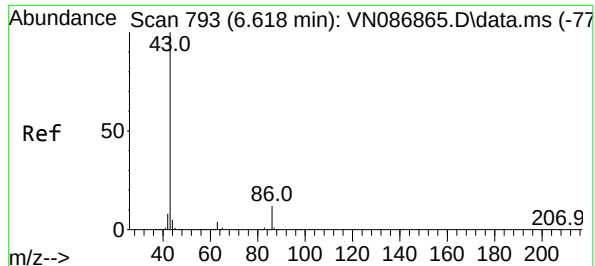
45 100

43 52.4 41.9 62.9

87 29.5 22.4 33.6

59 12.4 9.8 14.6





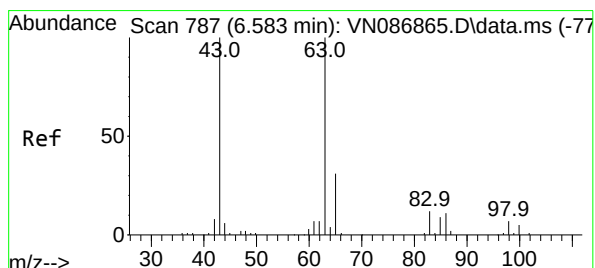
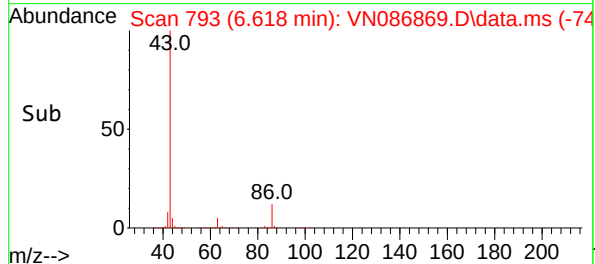
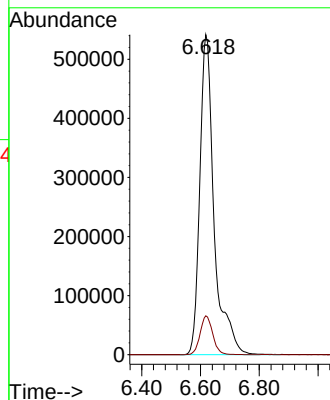
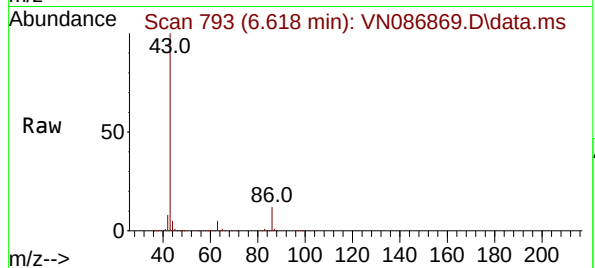
#23
Vinyl Acetate
Concen: 255.055 ug/l
RT: 6.618 min Scan# 793
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVNVN060625

Tgt Ion: 43 Resp: 1828919
Ion Ratio Lower Upper
43 100
86 12.1 9.5 14.3

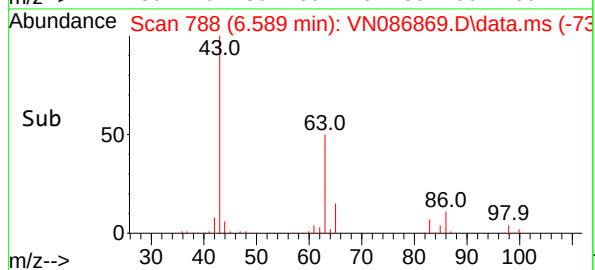
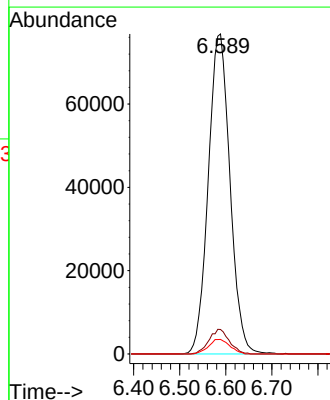
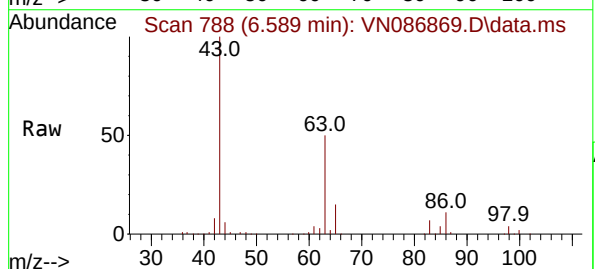
Manual Integrations
APPROVED

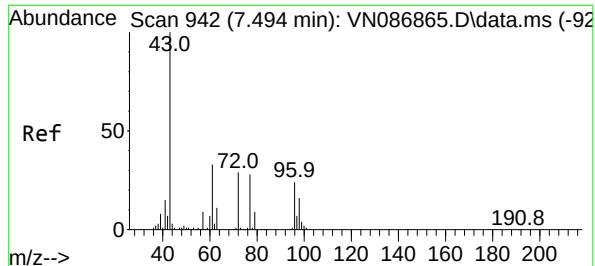
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#24
1,1-Dichloroethane
Concen: 51.487 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 63 Resp: 251473
Ion Ratio Lower Upper
63 100
98 7.7 3.6 10.8
100 4.6 2.6 7.8





#25

2-Butanone

Concen: 255.897 ug/l

RT: 7.494 min Scan# 942

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

Tgt Ion: 43 Resp: 644194

Ion Ratio Lower Upper

43 100

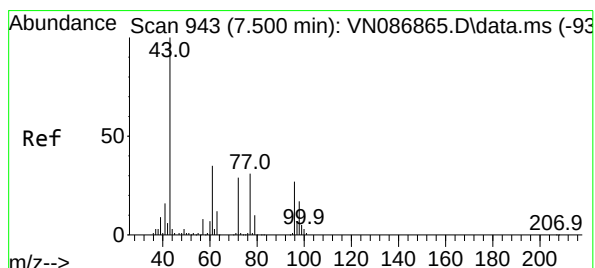
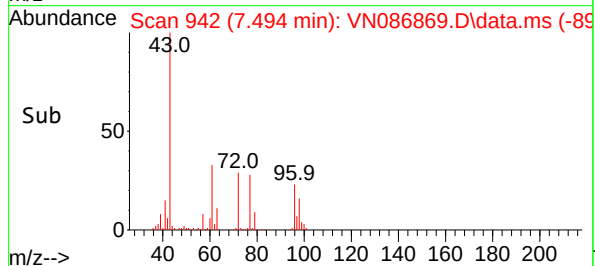
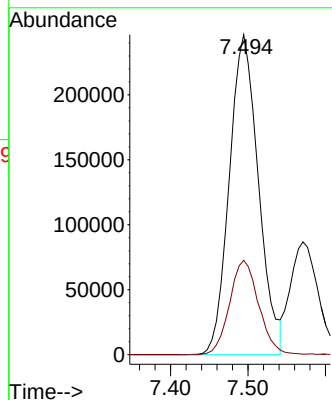
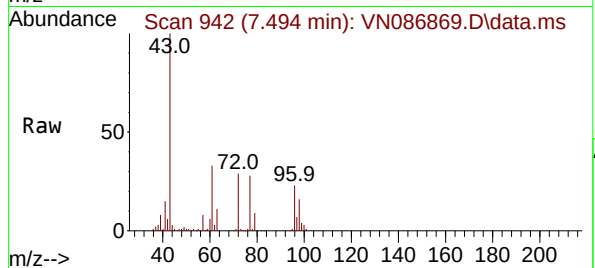
72 29.5 23.0 34.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 57.031 ug/l

RT: 7.500 min Scan# 943

Delta R.T. -0.000 min

Lab File: VN086869.D

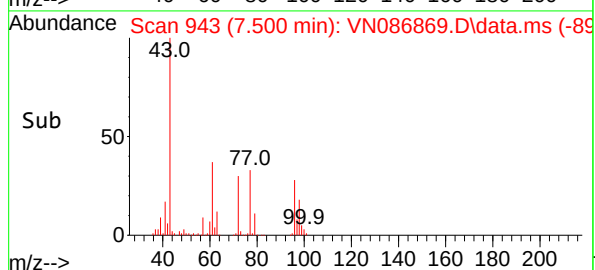
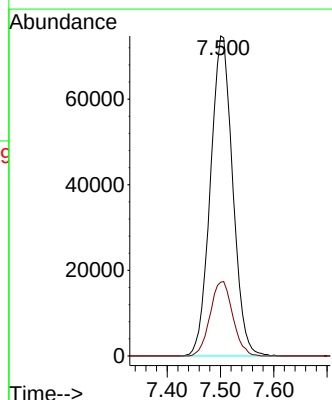
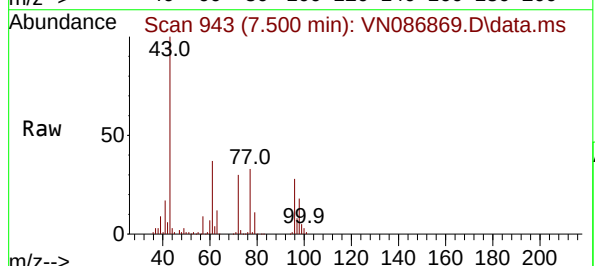
Acq: 06 Jun 2025 15:54

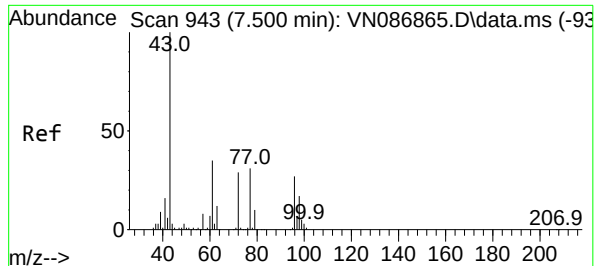
Tgt Ion: 77 Resp: 216678

Ion Ratio Lower Upper

77 100

97 23.7 11.6 34.7





#27

cis-1,2-Dichloroethene

Concen: 51.073 ug/l

RT: 7.500 min Scan# 943

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

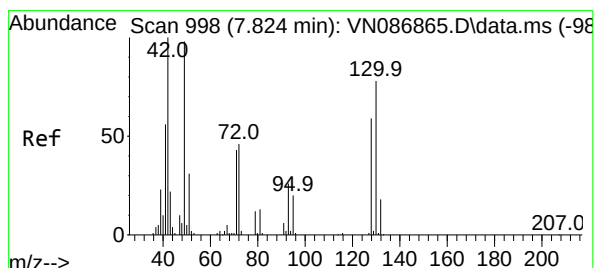
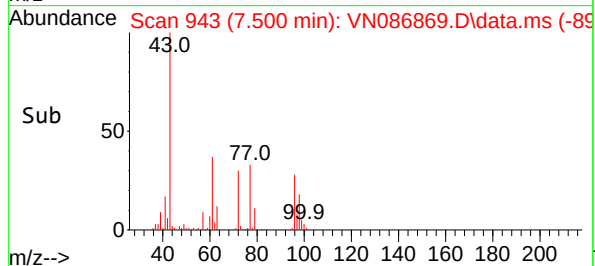
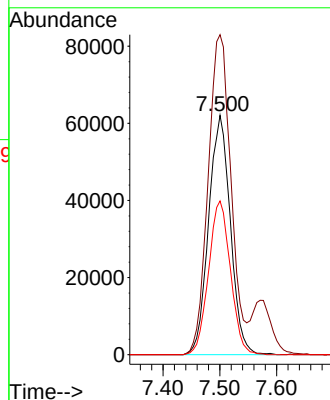
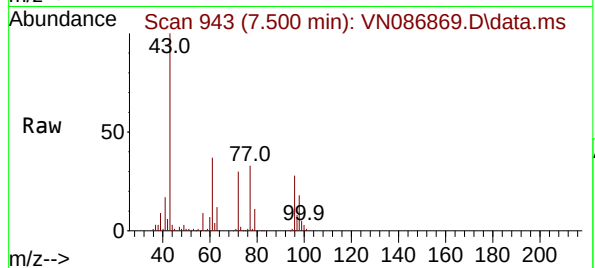
ICVNVN060625

Tgt Ion:	96	Resp:	16498
Ion	Ratio	Lower	Upper
96	100		
61	140.3	0.0	278.0
98	64.5	0.0	128.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 45.310 ug/l

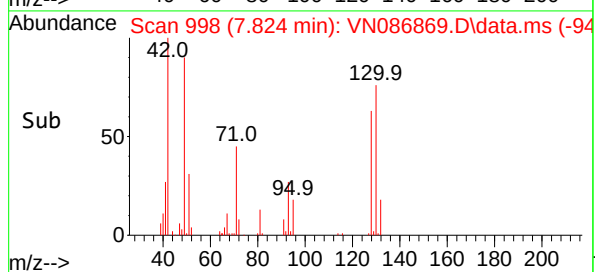
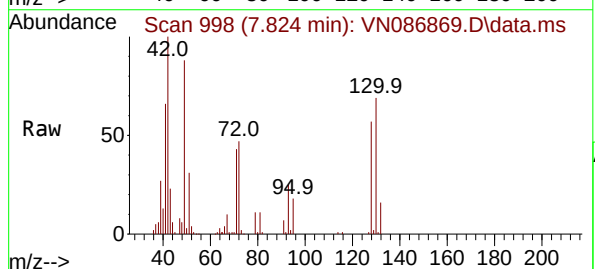
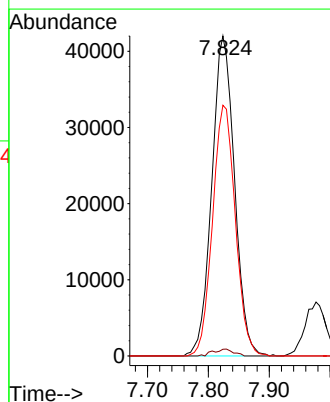
RT: 7.824 min Scan# 998

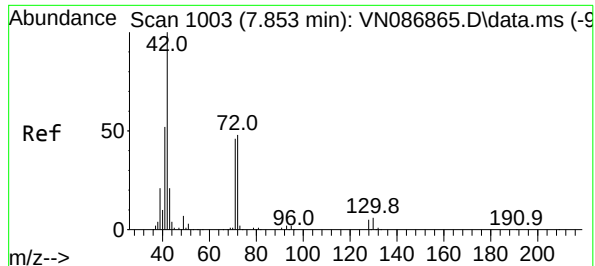
Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Tgt Ion:	49	Resp:	108810
Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	78.5	62.2	93.2





#29

Tetrahydrofuran

Concen: 256.656 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. -0.006 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

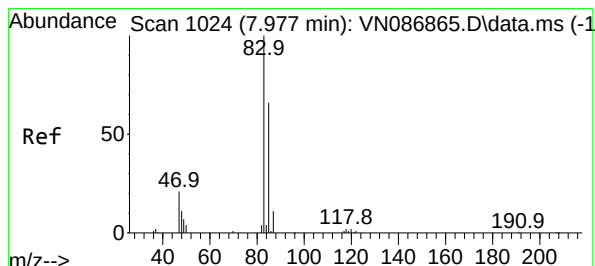
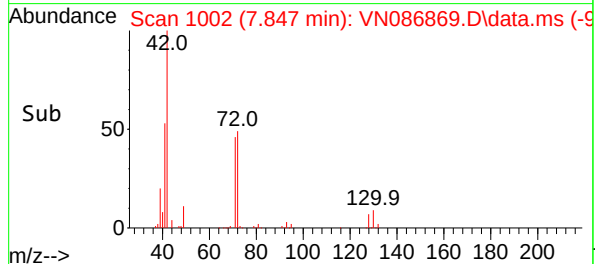
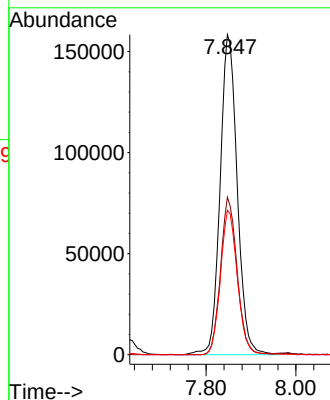
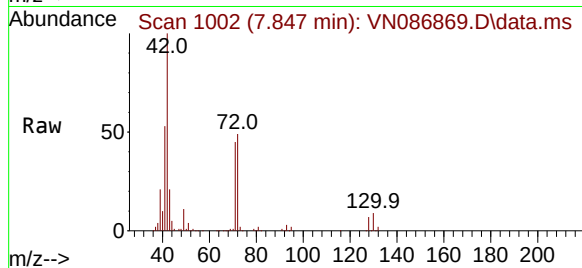
Tgt Ion:	42	Resp:	42089
Ion	Ratio	Lower	Upper
42	100		
72	47.5	37.8	56.6
71	44.5	35.6	53.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 50.933 ug/l

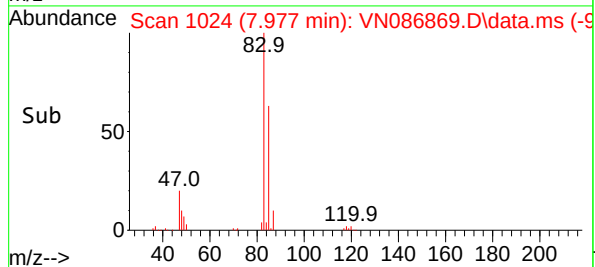
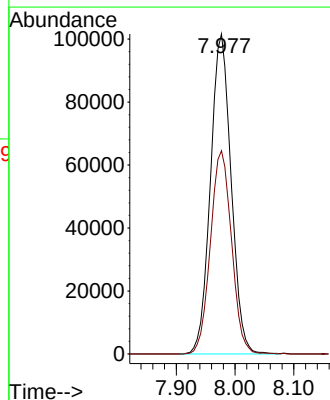
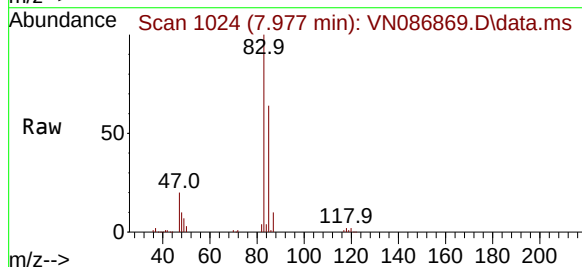
RT: 7.977 min Scan# 1024

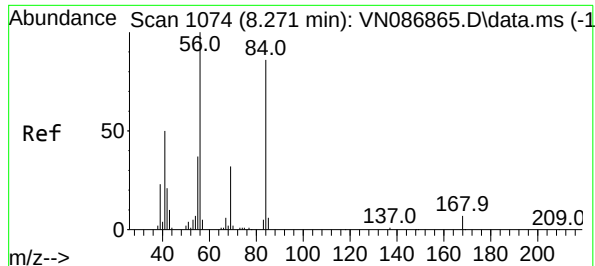
Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Tgt Ion:	83	Resp:	248429
Ion	Ratio	Lower	Upper
83	100		
85	63.5	52.9	79.3





#31

Cyclohexane

Concen: 50.212 ug/l

RT: 8.265 min Scan# 1073

Delta R.T. -0.006 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

Tgt Ion: 56 Resp: 237830

Ion Ratio Lower Upper

56 100

69 33.9 25.4 38.0

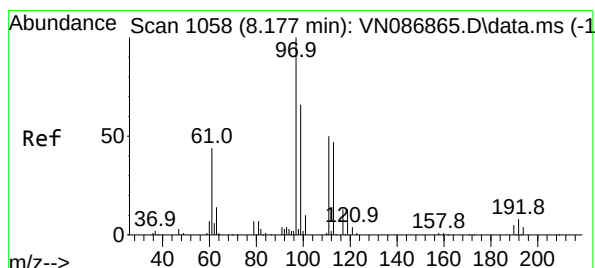
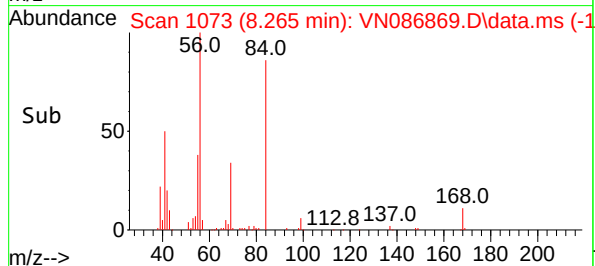
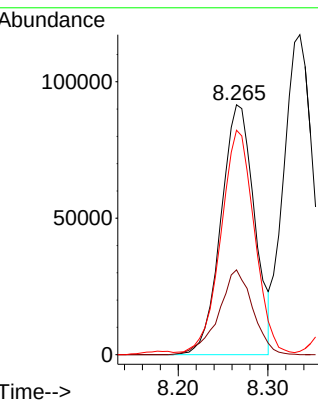
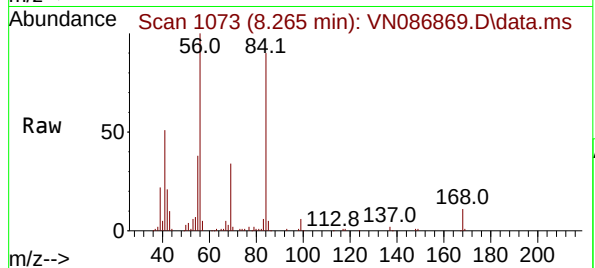
84 88.4 68.8 103.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#32

1,1,1-Trichloroethane

Concen: 50.603 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

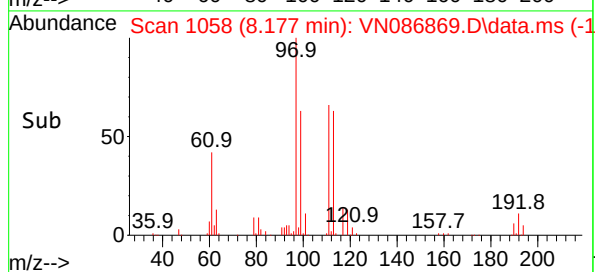
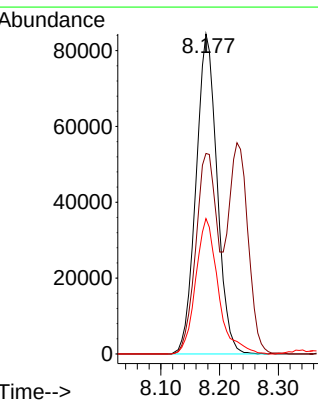
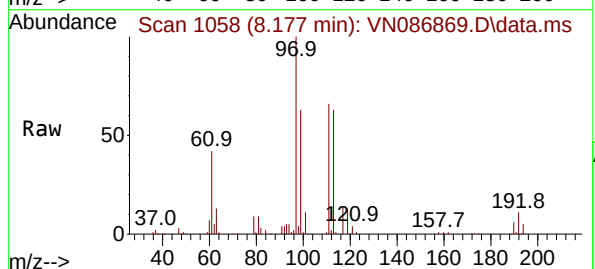
Tgt Ion: 97 Resp: 209927

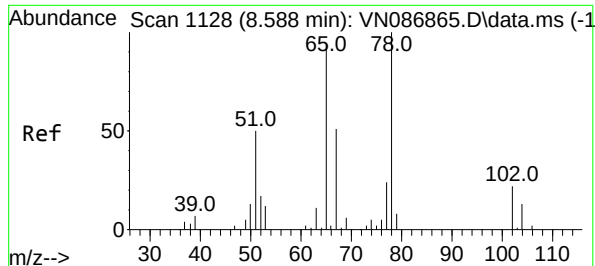
Ion Ratio Lower Upper

97 100

99 61.7 52.0 78.0

61 45.4 35.9 53.9





#33

1,2-Dichloroethane-d4

Concen: 52.135 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

Tgt Ion: 65 Resp: 15225

Ion Ratio Lower Upper

65 100

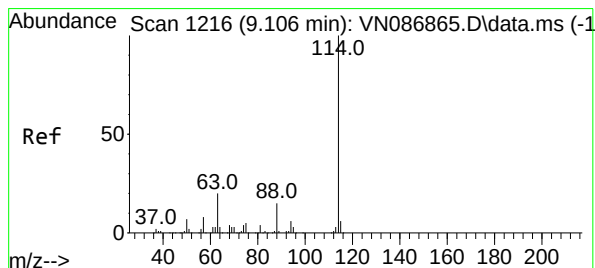
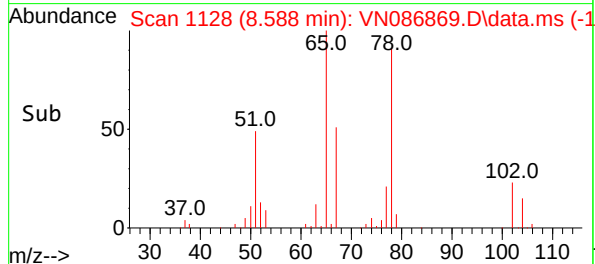
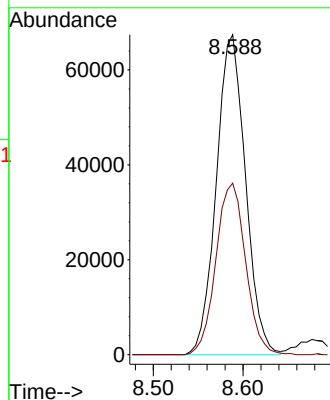
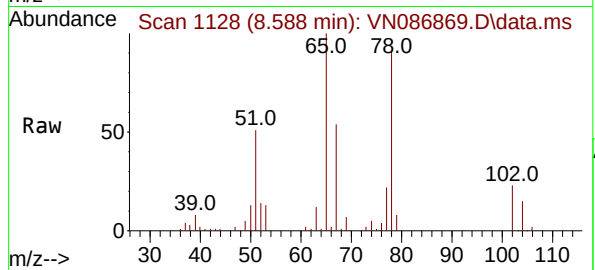
67 54.6 0.0 105.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

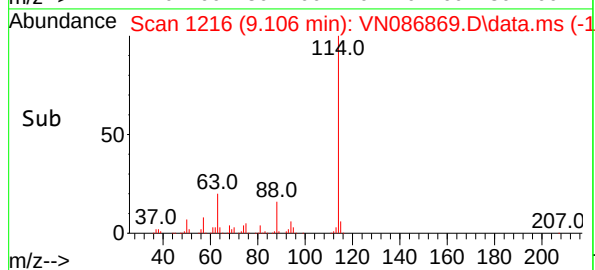
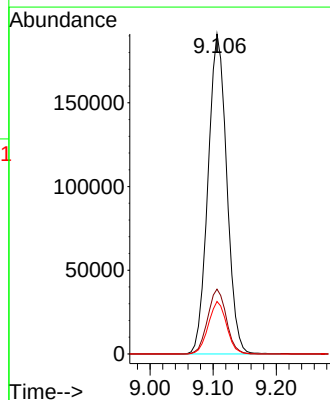
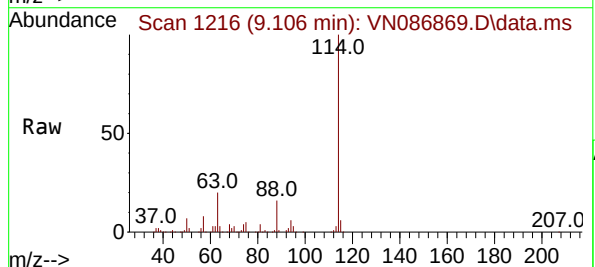
Tgt Ion:114 Resp: 394140

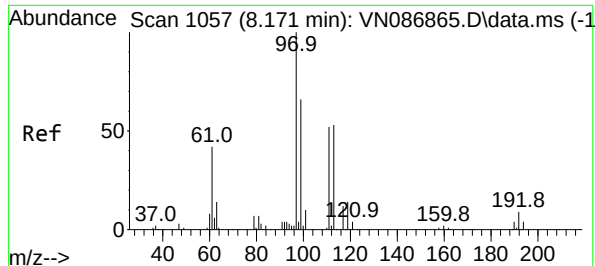
Ion Ratio Lower Upper

114 100

63 20.2 0.0 39.6

88 16.4 0.0 30.2





#35

Dibromofluoromethane

Concen: 54.416 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

Tgt Ion:113 Resp: 12710

Ion Ratio Lower Upper

113 100

111 103.4 84.2 126.2

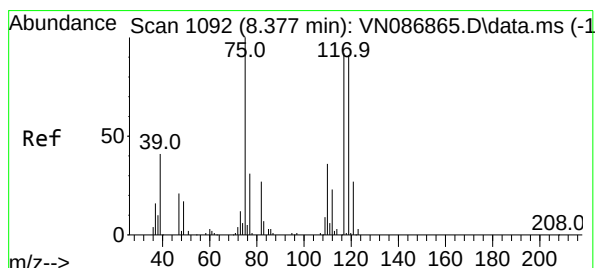
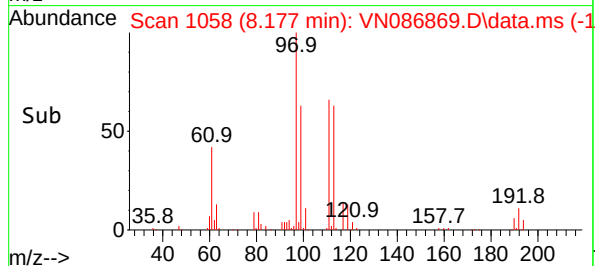
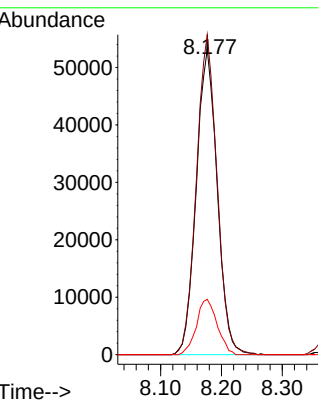
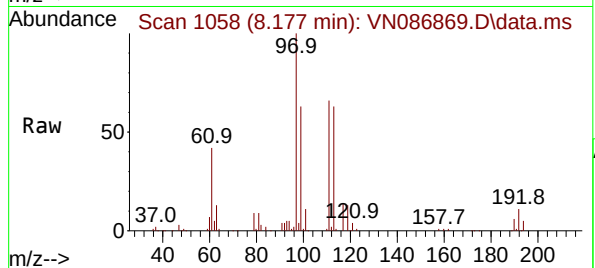
192 18.0 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#36

1,1-Dichloropropene

Concen: 52.123 ug/l

RT: 8.377 min Scan# 1092

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

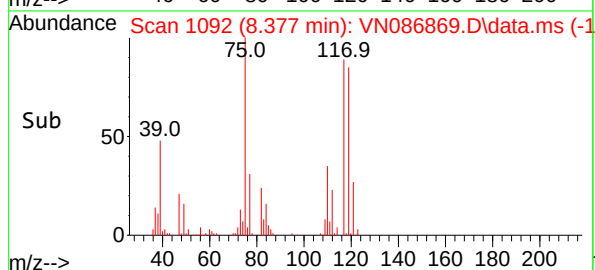
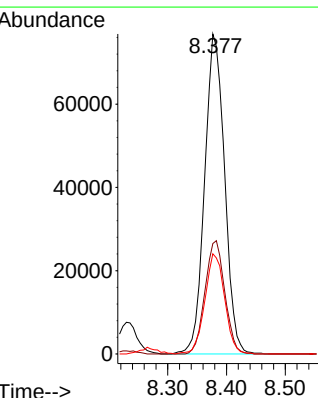
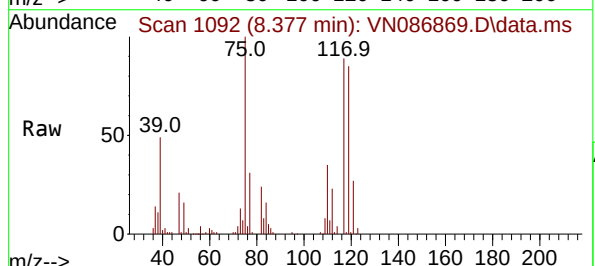
Tgt Ion: 75 Resp: 181414

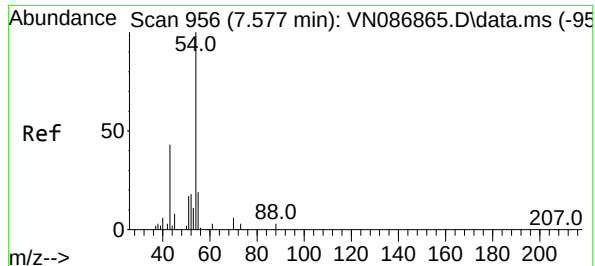
Ion Ratio Lower Upper

75 100

110 35.0 17.6 52.9

77 31.0 25.3 37.9





#37

Ethyl Acetate

Concen: 50.125 ug/l

RT: 7.571 min Scan# 9

Delta R.T. -0.006 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

Tgt Ion: 43 Resp: 222090

Ion Ratio Lower Upper

43 100

61 15.6 12.1 18.1

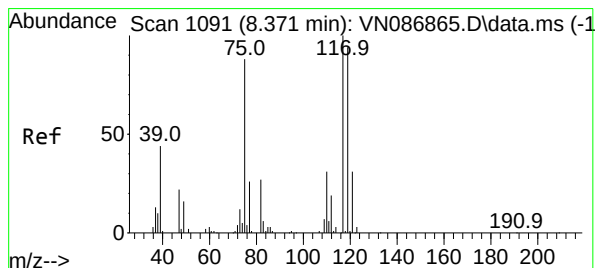
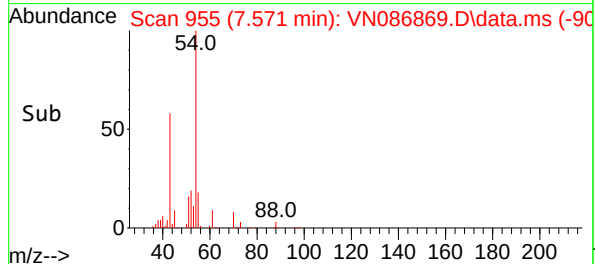
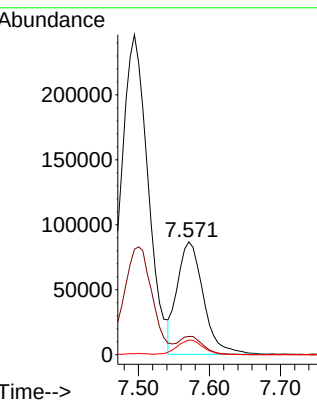
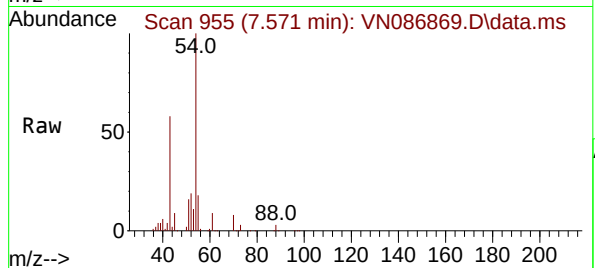
70 12.9 9.8 14.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#38

Carbon Tetrachloride

Concen: 52.466 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

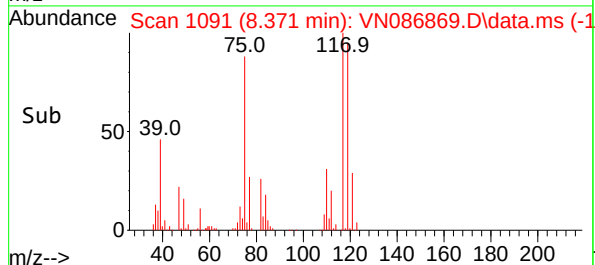
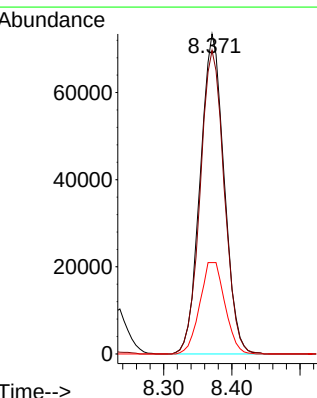
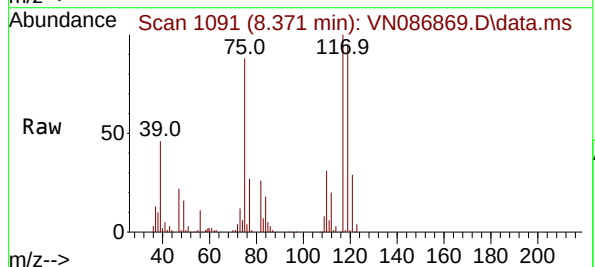
Tgt Ion:117 Resp: 179281

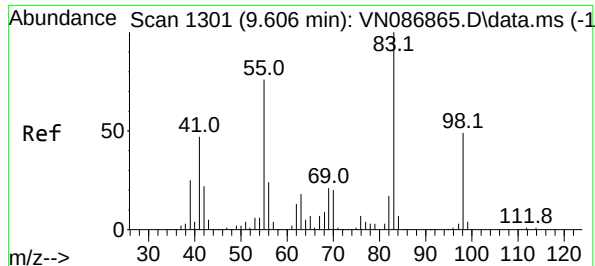
Ion Ratio Lower Upper

117 100

119 94.8 75.0 112.6

121 28.5 24.9 37.3





#39

Methylcyclohexane

Concen: 52.686 ug/l

RT: 9.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

Tgt Ion: 83 Resp: 25123

Ion Ratio Lower Upper

83 100

55 74.5 61.0 91.6

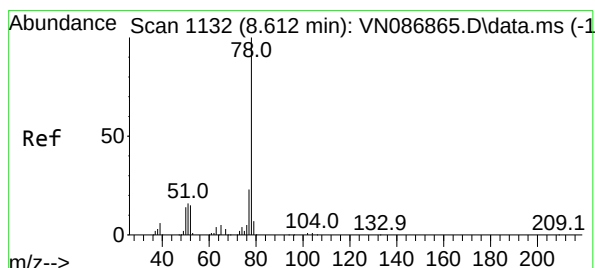
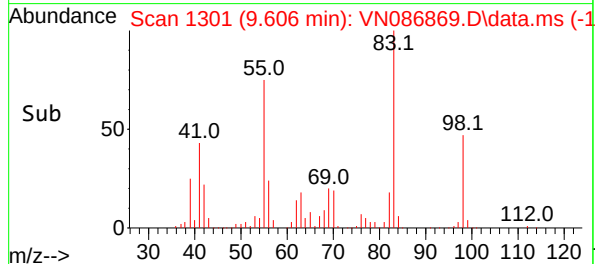
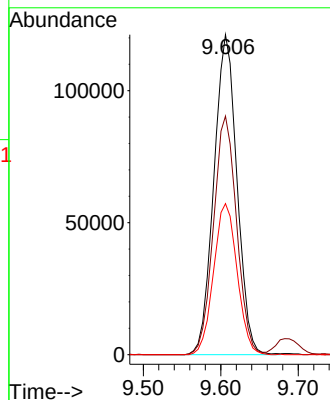
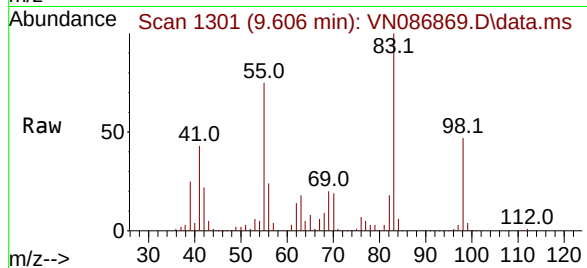
98 47.2 38.9 58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#40

Benzene

Concen: 50.931 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VN086869.D

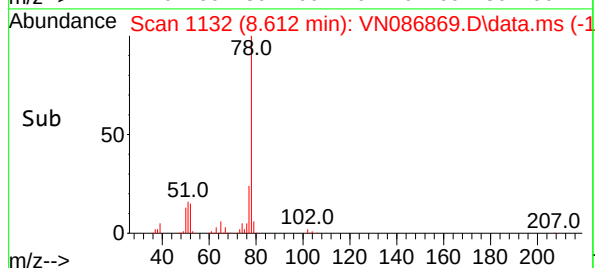
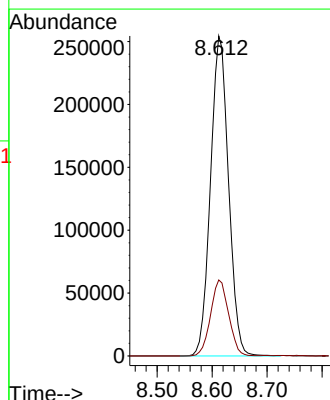
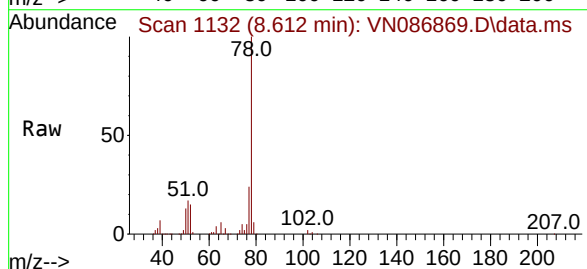
Acq: 06 Jun 2025 15:54

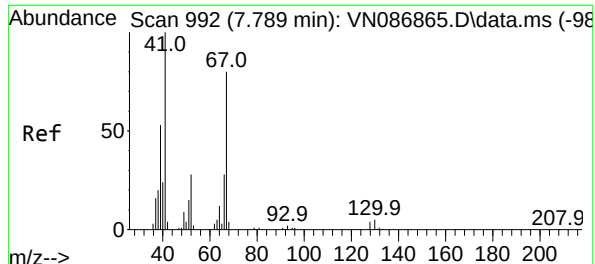
Tgt Ion: 78 Resp: 579667

Ion Ratio Lower Upper

78 100

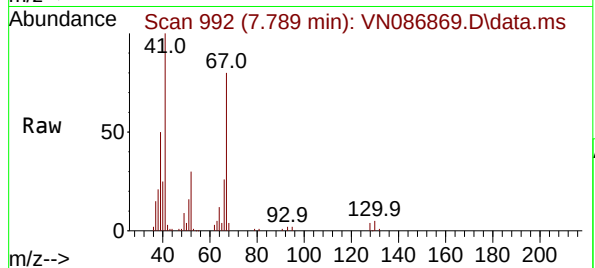
77 23.7 18.7 28.1





#41
Methacrylonitrile
Concen: 52.607 ug/l
RT: 7.789 min Scan# 992
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

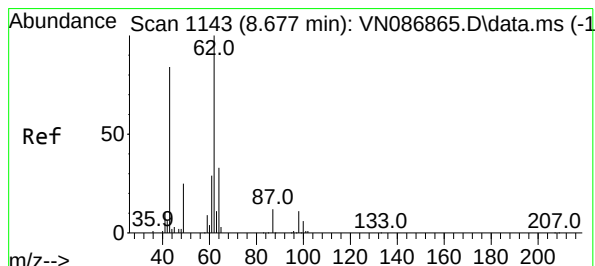
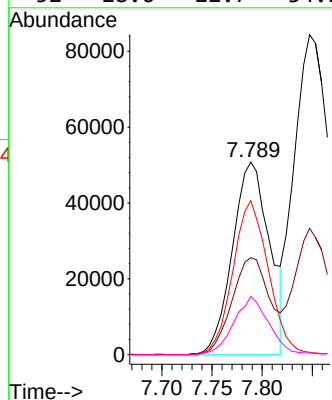
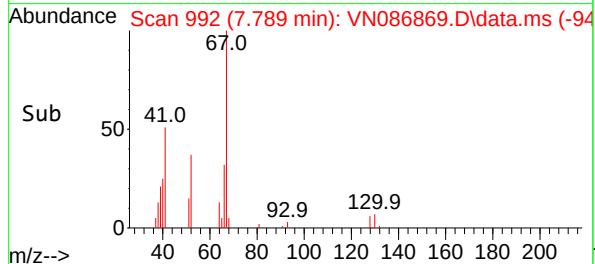
Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625



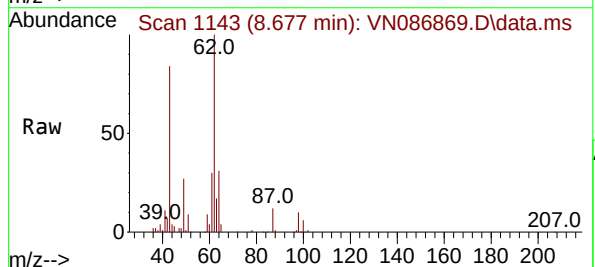
Tgt Ion: 41 Resp: 13090
Ion Ratio Lower Upper
41 100
39 51.3 41.2 61.8
67 76.9 61.4 92.2
52 28.6 22.7 34.1

Manual Integrations
APPROVED

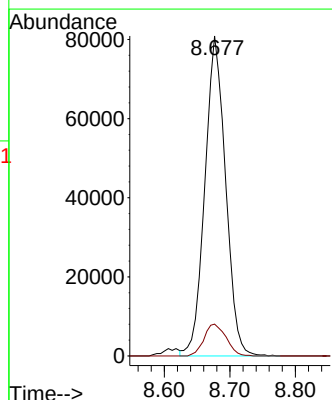
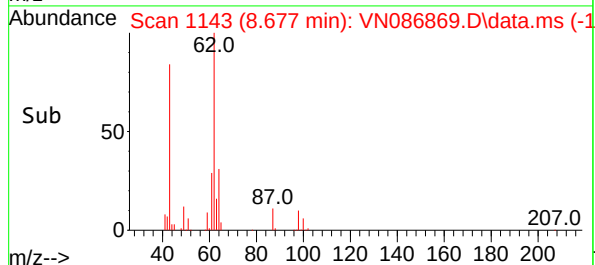
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

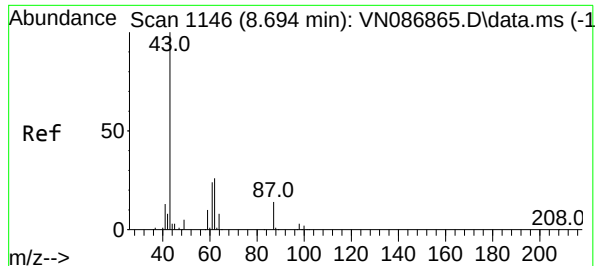


#42
1,2-Dichloroethane
Concen: 51.489 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54



Tgt Ion: 62 Resp: 177746
Ion Ratio Lower Upper
62 100
98 10.6 0.0 21.2





#43

Isopropyl Acetate

Concen: 50.536 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

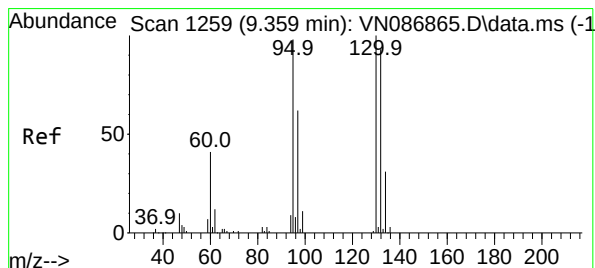
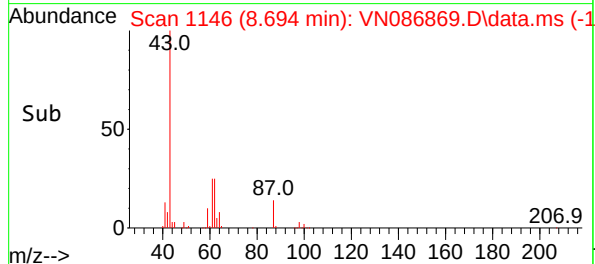
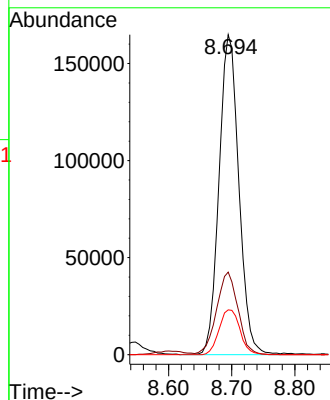
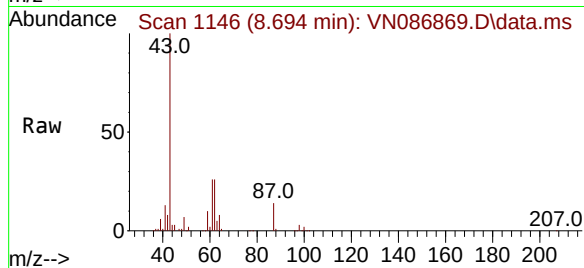
Tgt Ion:	43	Resp:	359378
Ion	Ratio	Lower	Upper
43	100		
61	27.9	22.1	33.1
87	14.8	11.8	17.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#44

Trichloroethene

Concen: 51.788 ug/l

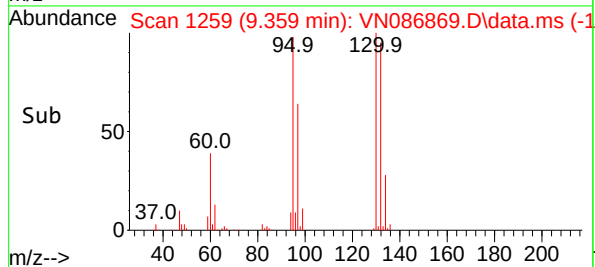
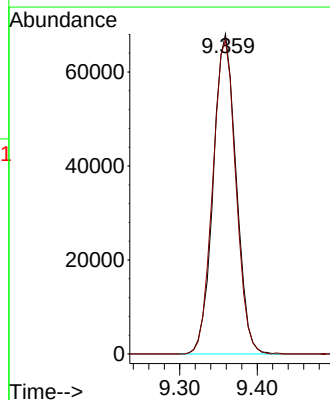
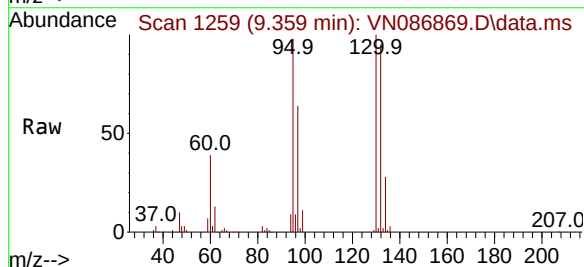
RT: 9.359 min Scan# 1259

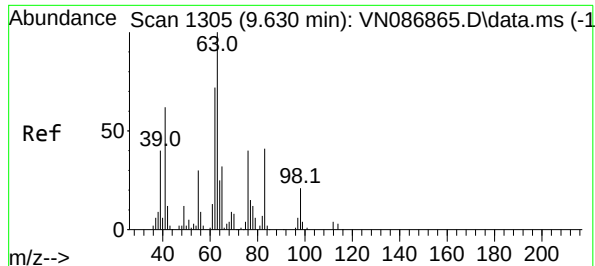
Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Tgt Ion:	130	Resp:	139763
Ion	Ratio	Lower	Upper
130	100		
95	98.0	0.0	196.2





#45

1,2-Dichloropropane

Concen: 51.450 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. -0.006 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

Tgt Ion: 63 Resp: 14246

Ion Ratio Lower Upper

63 100

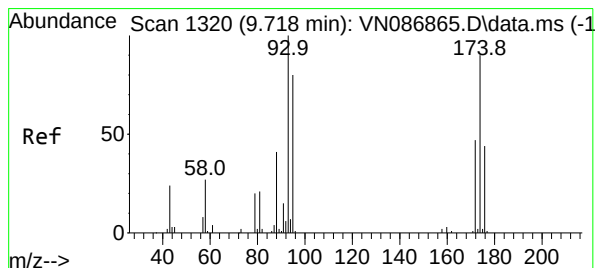
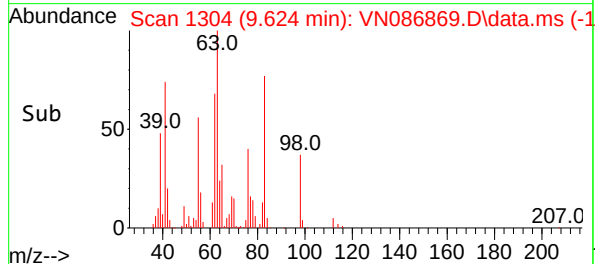
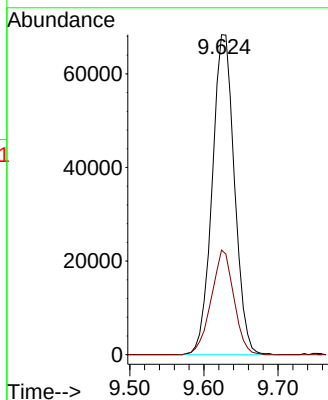
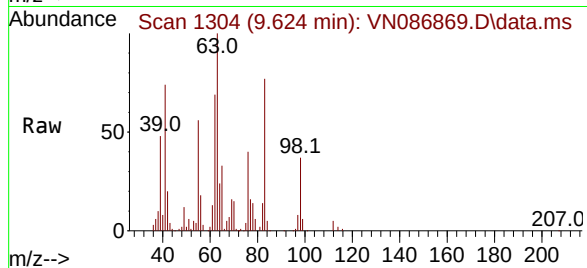
65 32.7 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#46

Dibromomethane

Concen: 52.849 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. -0.006 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

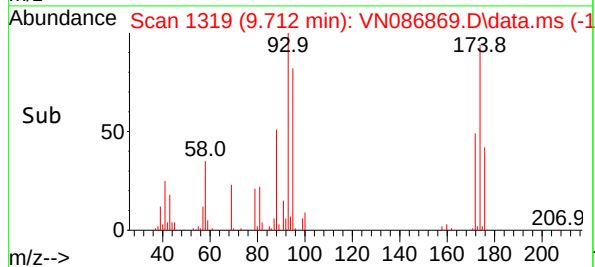
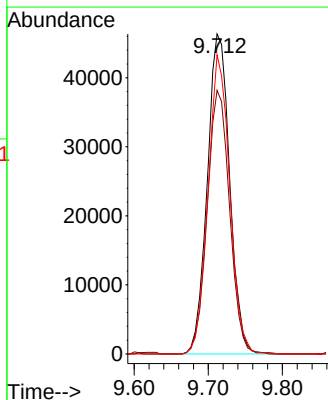
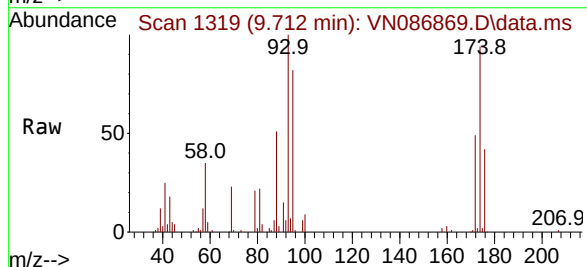
Tgt Ion: 93 Resp: 97199

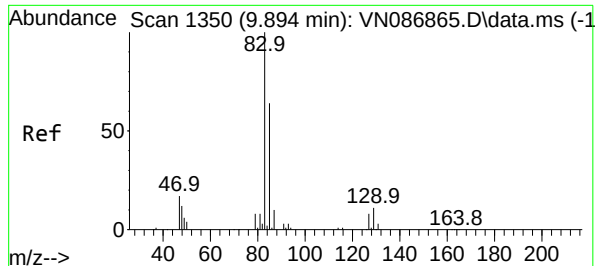
Ion Ratio Lower Upper

93 100

95 82.2 67.1 100.7

174 90.9 74.2 111.4





#47

Bromodichloromethane

Concen: 51.824 ug/l

RT: 9.894 min Scan# 1350

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

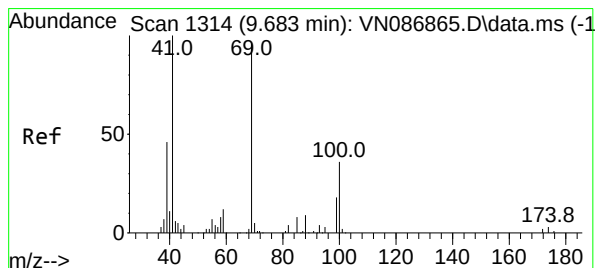
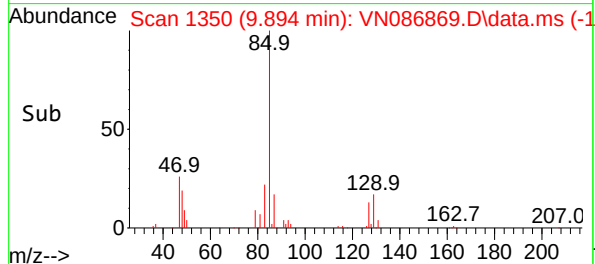
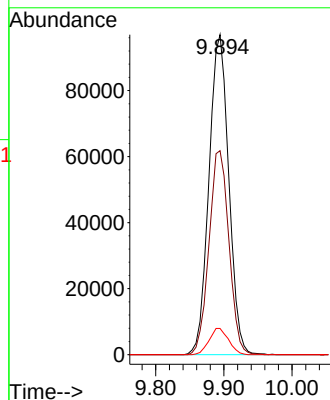
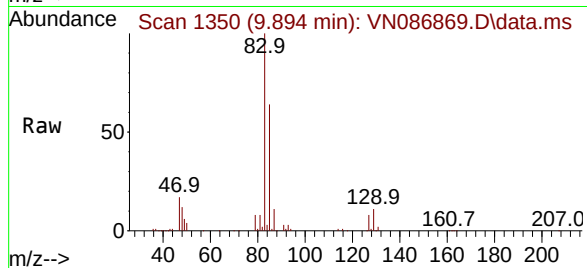
ICVVN060625

Tgt Ion:	83	Resp:	196104
Ion Ratio	Lower	Upper	
83	100		
85	63.8	50.9	76.3
127	8.2	6.6	10.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#48

Methyl methacrylate

Concen: 51.328 ug/l

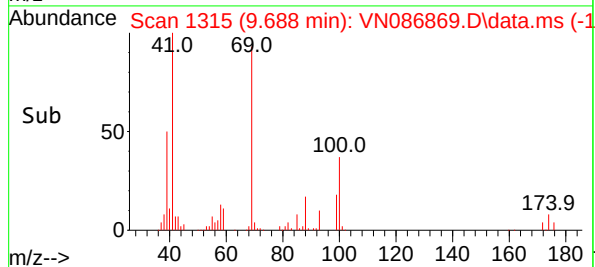
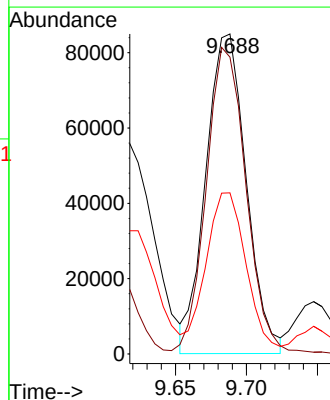
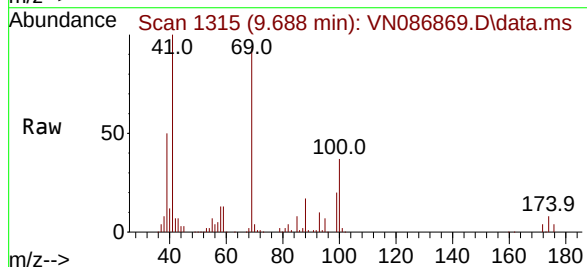
RT: 9.688 min Scan# 1315

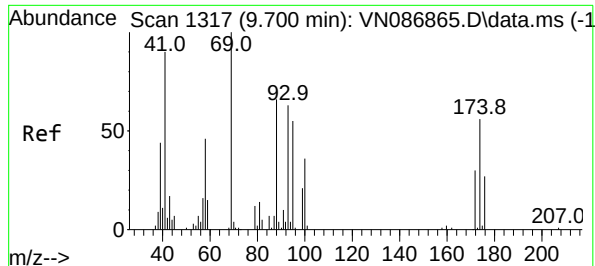
Delta R.T. 0.006 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Tgt Ion:	41	Resp:	168001
Ion Ratio	Lower	Upper	
41	100		
69	95.2	74.6	112.0
39	51.0	40.2	60.4





#49

1,4-Dioxane

Concen: 1110.123 ug/l

RT: 9.706 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

Tgt Ion: 88 Resp: 6610

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

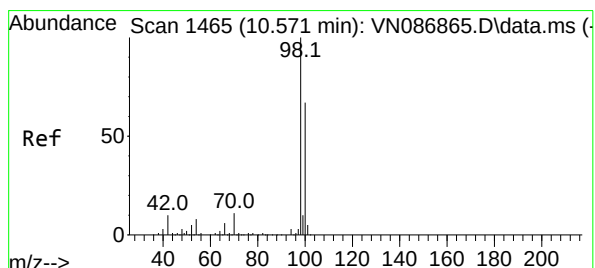
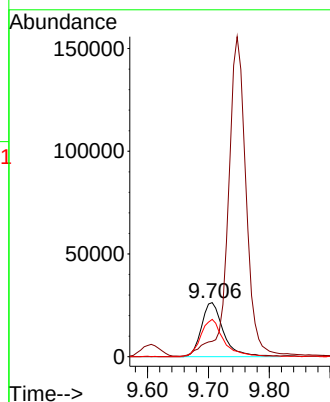
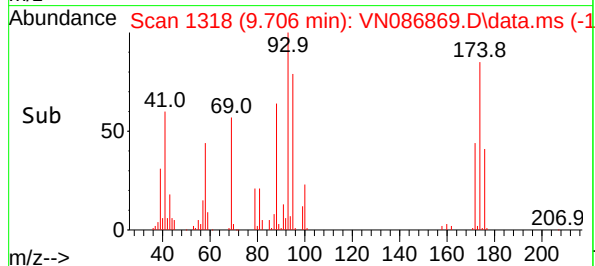
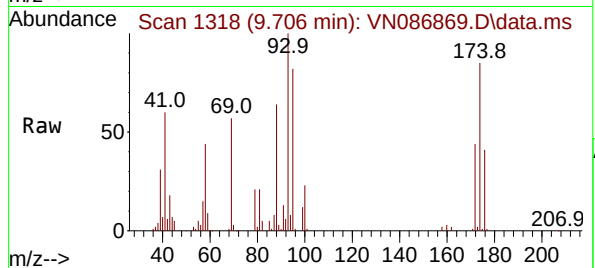
58 72.7 57.7 86.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#50

Toluene-d8

Concen: 53.129 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN086869.D

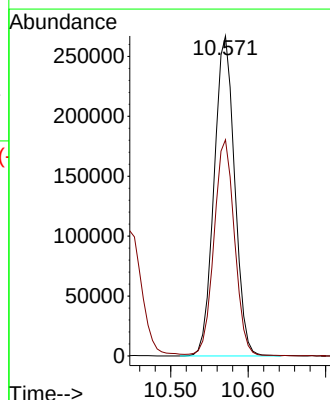
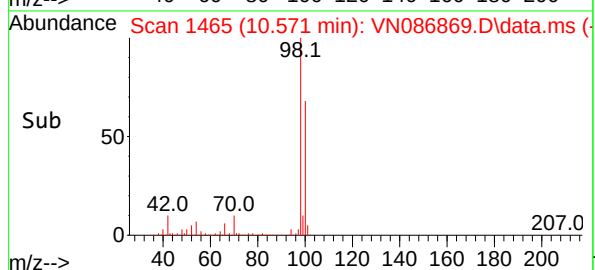
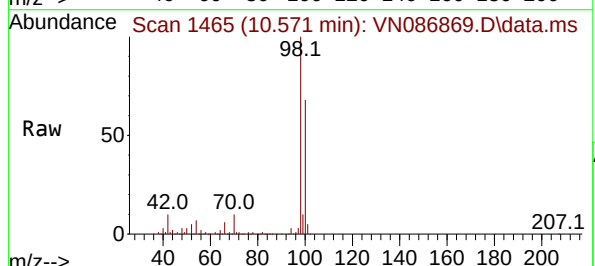
Acq: 06 Jun 2025 15:54

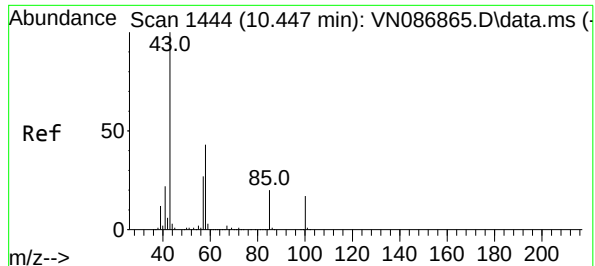
Tgt Ion: 98 Resp: 491265

Ion Ratio Lower Upper

98 100

100 67.6 53.4 80.0





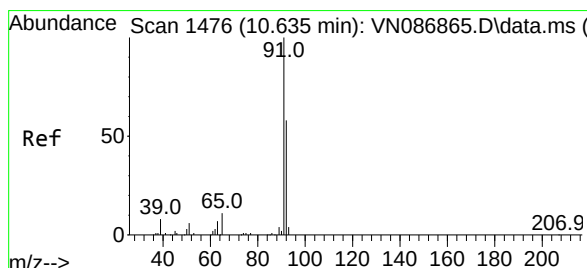
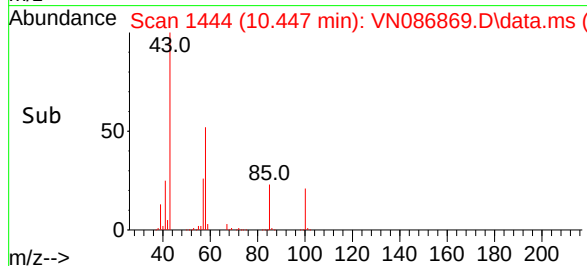
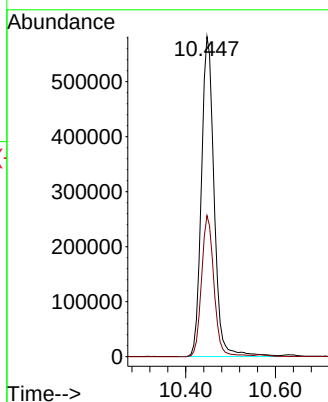
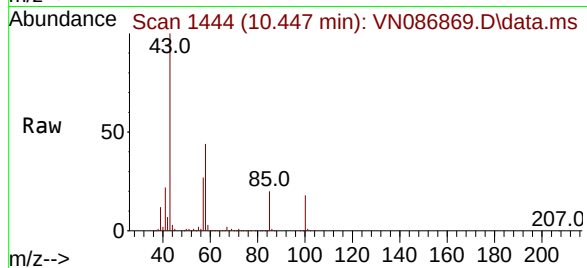
#51
4-Methyl-2-Pentanone
Concen: 267.835 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 43 Resp: 114662
Ion Ratio Lower Upper
43 100
58 43.2 34.2 51.4

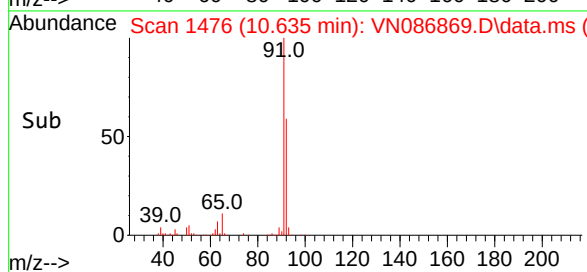
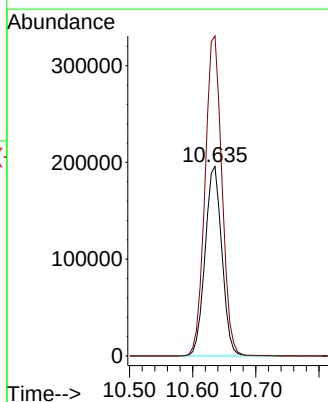
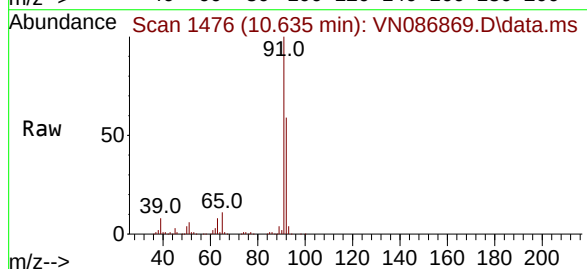
Manual Integrations
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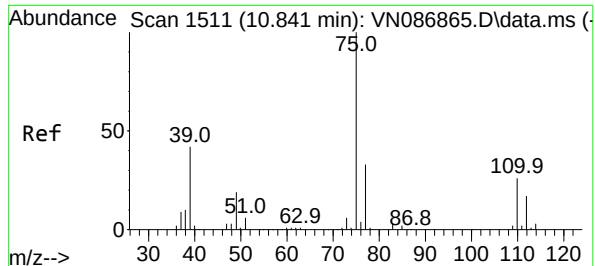
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#52
Toluene
Concen: 52.040 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

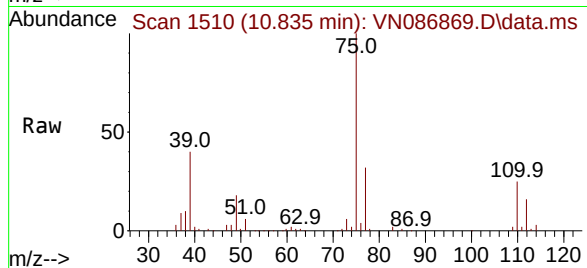
Tgt Ion: 92 Resp: 361963
Ion Ratio Lower Upper
92 100
91 169.8 136.5 204.7





#53
t-1,3-Dichloropropene
Concen: 53.137 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

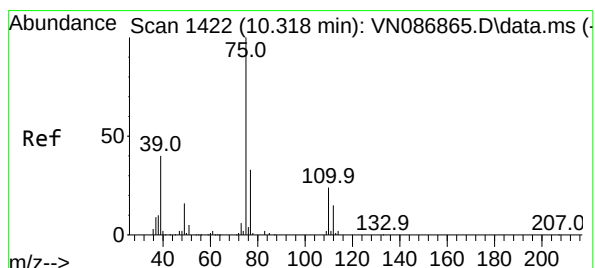
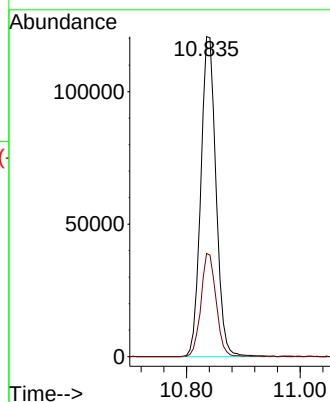
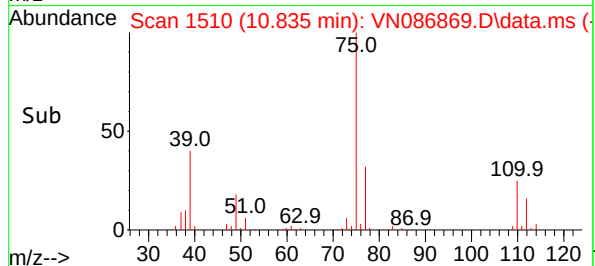
Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625



Tgt Ion: 75 Resp: 224839
Ion Ratio Lower Upper
75 100
77 32.3 26.4 39.6

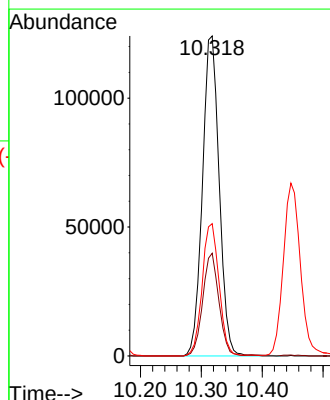
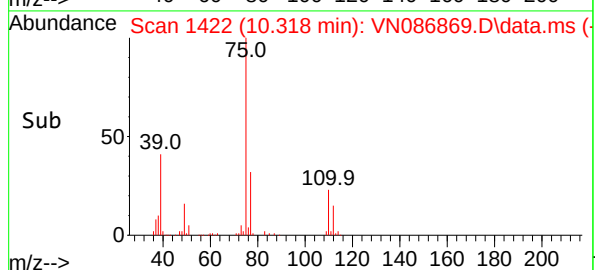
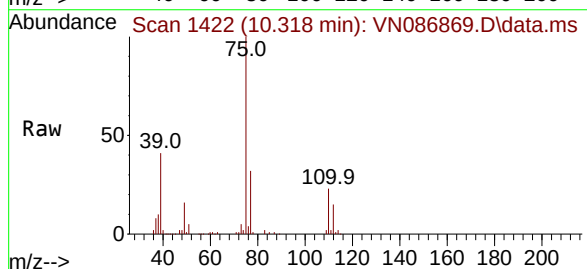
Manual Integrations
APPROVED

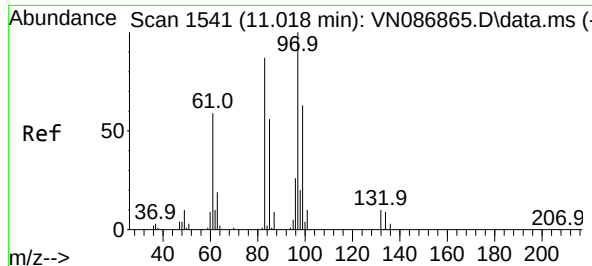
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#54
cis-1,3-Dichloropropene
Concen: 52.519 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 75 Resp: 237774
Ion Ratio Lower Upper
75 100
77 32.1 26.2 39.4
39 41.3 32.3 48.5





#55

1,1,2-Trichloroethane

Concen: 51.562 ug/l

RT: 11.018 min Scan# 1541

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

Tgt Ion: 97 Resp: 137998

Ion Ratio Lower Upper

97 100

83 87.4 69.7 104.5

85 54.1 45.1 67.7

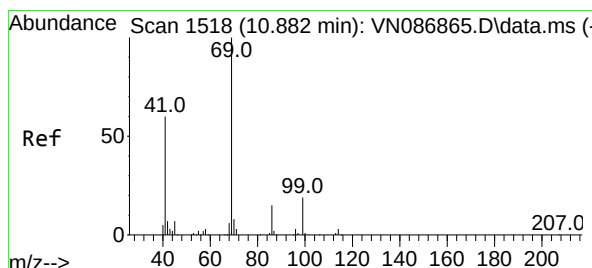
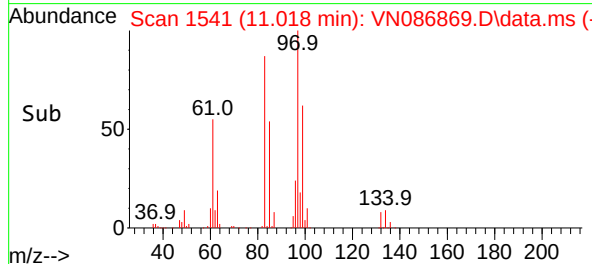
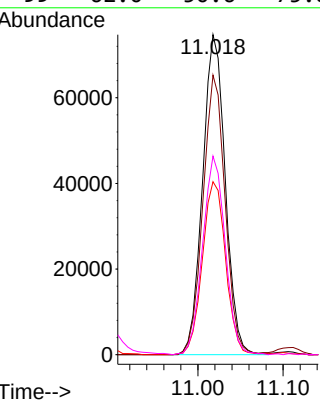
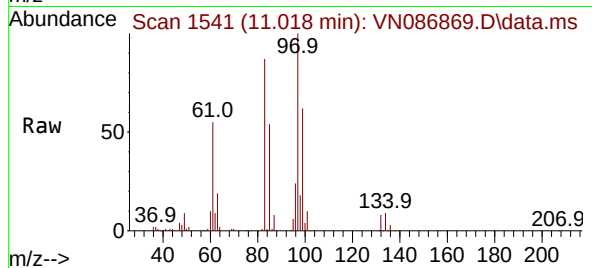
99 62.0 50.6 75.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#56

Ethyl methacrylate

Concen: 56.688 ug/l

RT: 10.882 min Scan# 1518

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

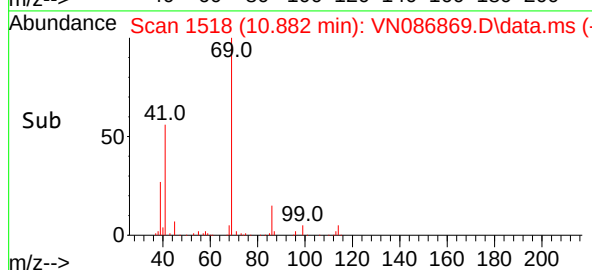
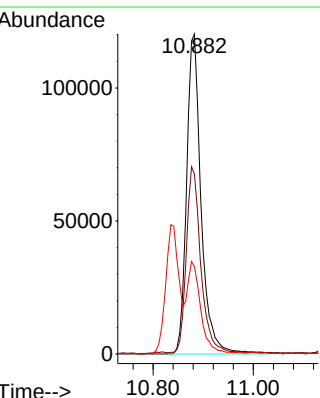
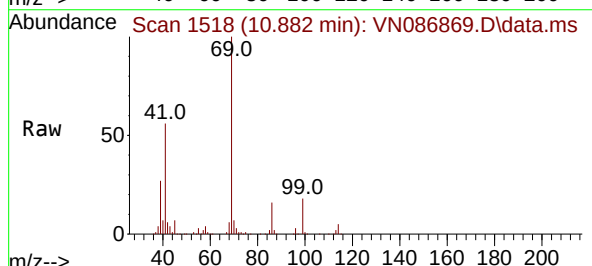
Tgt Ion: 69 Resp: 241649

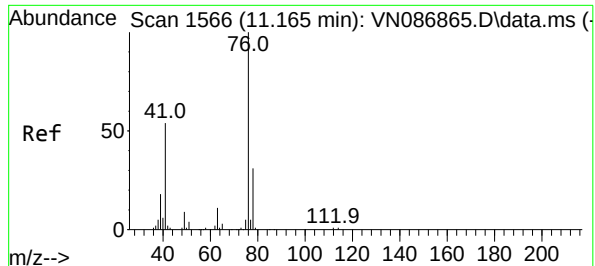
Ion Ratio Lower Upper

69 100

41 57.7 47.2 70.8

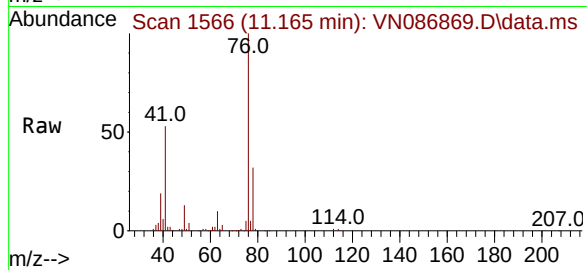
39 27.4 23.0 34.6





#57
1,3-Dichloropropane
Concen: 51.386 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

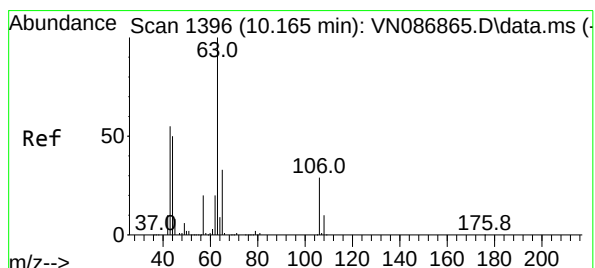
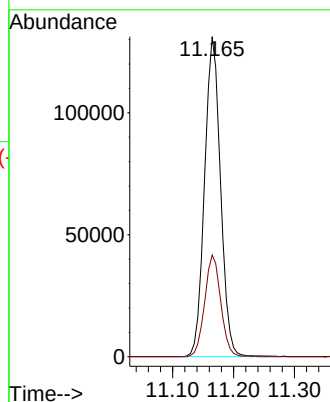
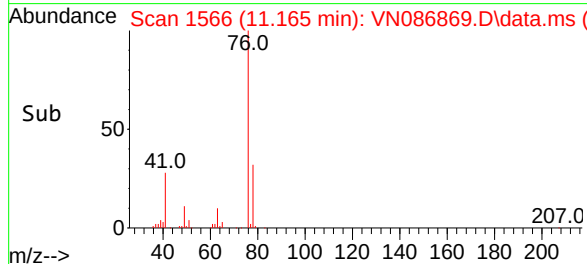
Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625



Tgt Ion: 76 Resp: 238572
Ion Ratio Lower Upper
76 100
78 32.0 25.3 37.9

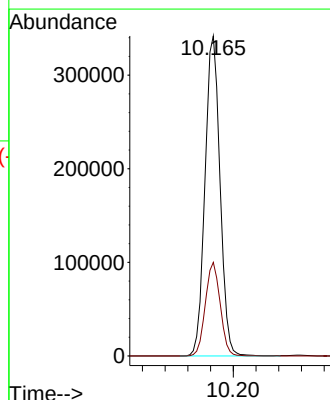
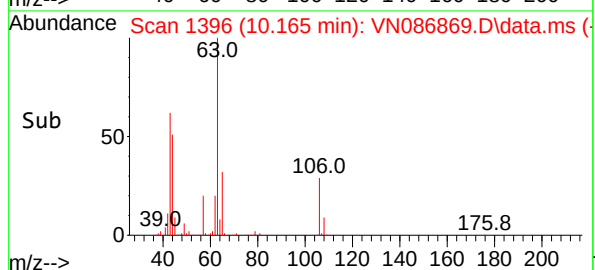
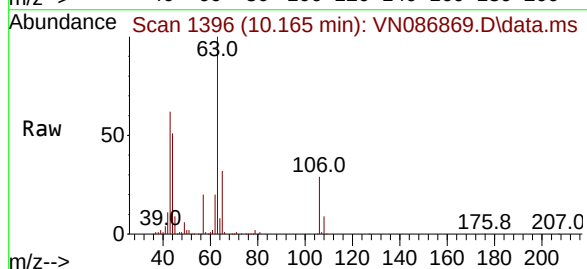
Manual Integrations
APPROVED

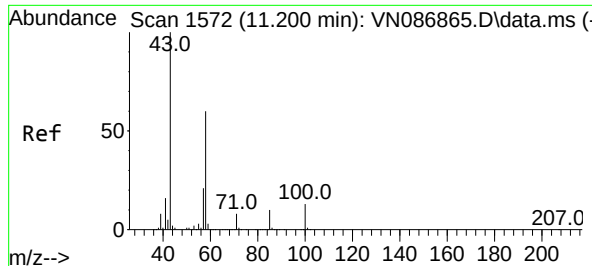
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#58
2-Chloroethyl Vinyl ether
Concen: 246.006 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 63 Resp: 625479
Ion Ratio Lower Upper
63 100
106 28.9 23.0 34.6





#59

2-Hexanone

Concen: 283.478 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

Tgt Ion: 43 Resp: 78171

Ion Ratio Lower Upper

43 100

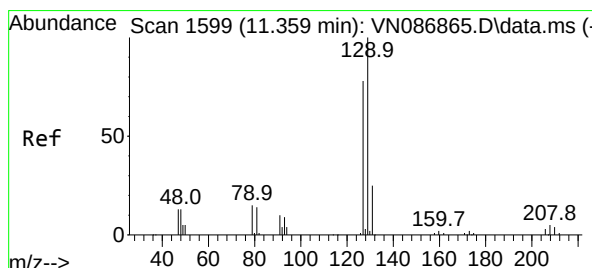
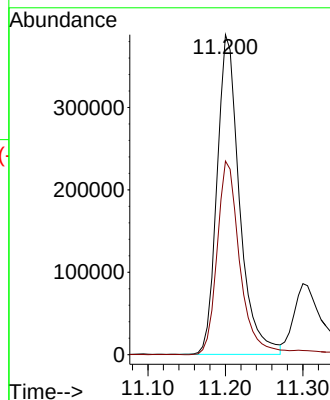
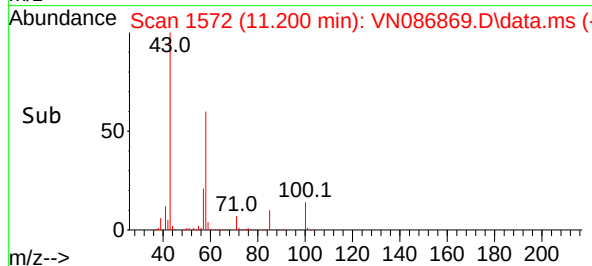
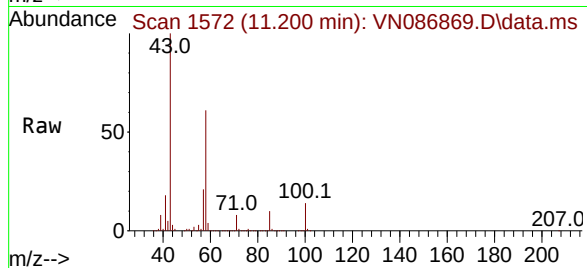
58 61.2 30.4 91.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#60

Dibromochloromethane

Concen: 52.627 ug/l

RT: 11.359 min Scan# 1599

Delta R.T. -0.000 min

Lab File: VN086869.D

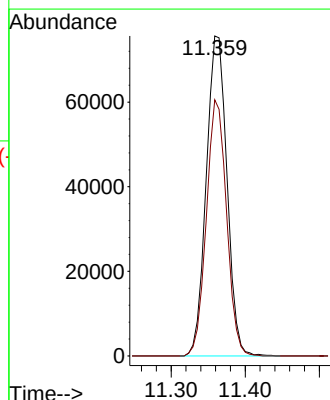
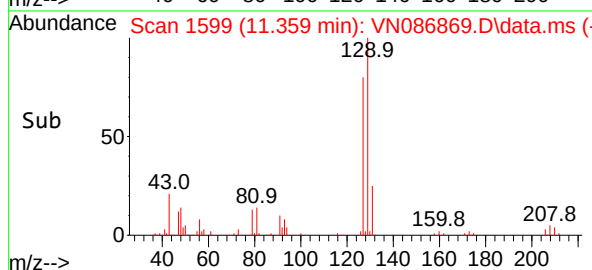
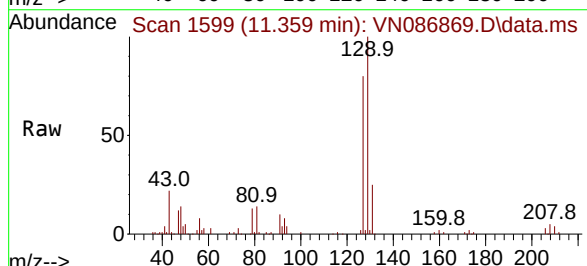
Acq: 06 Jun 2025 15:54

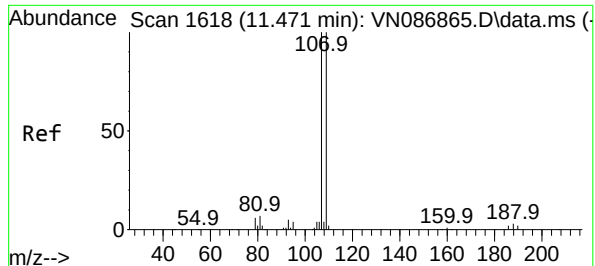
Tgt Ion:129 Resp: 146749

Ion Ratio Lower Upper

129 100

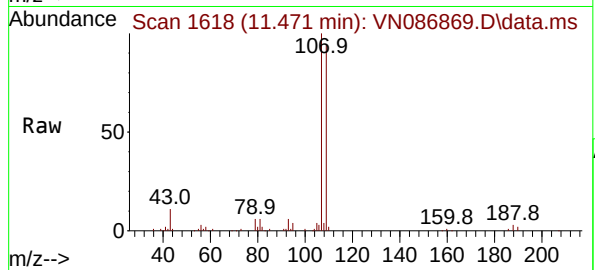
127 78.1 38.6 115.8





#61
1,2-Dibromoethane
Concen: 51.887 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

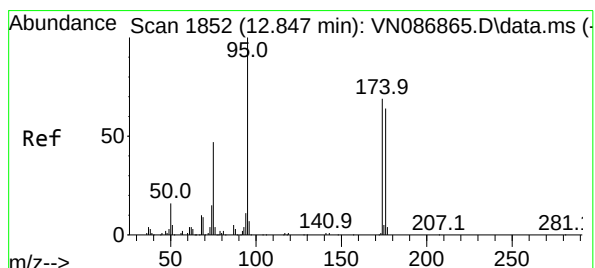
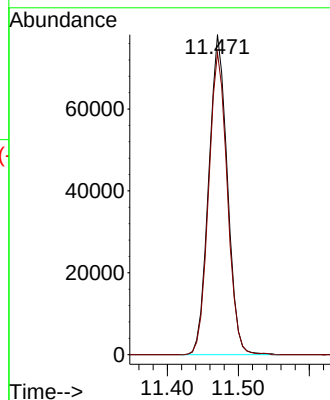
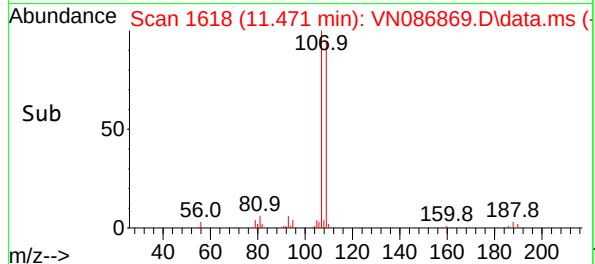
Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625



Tgt Ion: 107 Resp: 142338
Ion Ratio Lower Upper
107 100
109 94.5 76.3 114.5

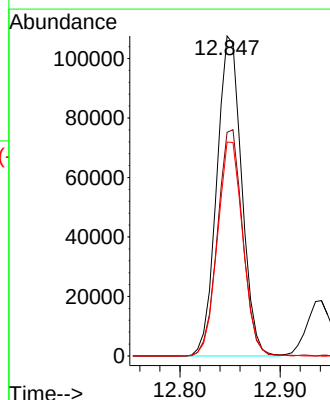
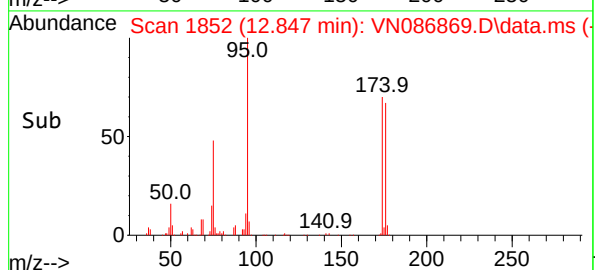
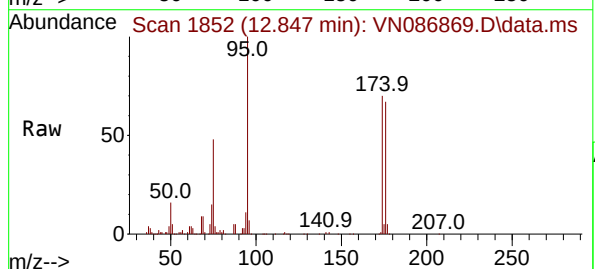
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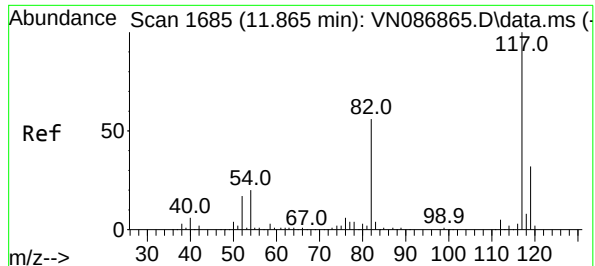
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#62
4-Bromofluorobenzene
Concen: 54.081 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 95 Resp: 185792
Ion Ratio Lower Upper
95 100
174 71.4 0.0 141.8
176 68.1 0.0 132.6





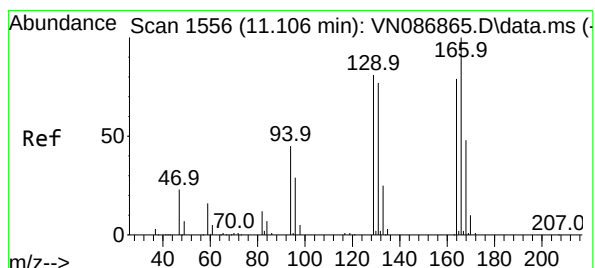
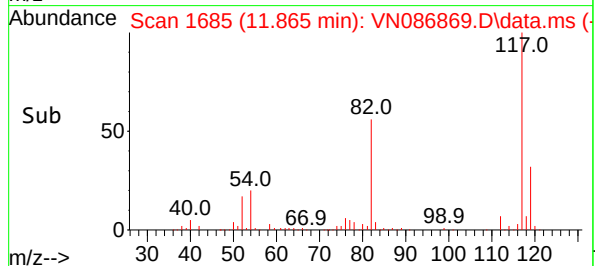
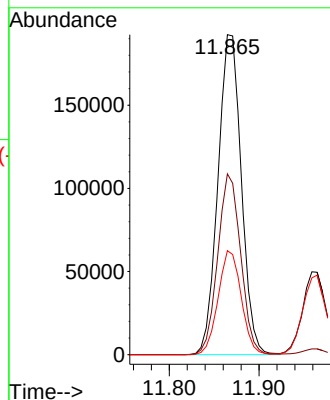
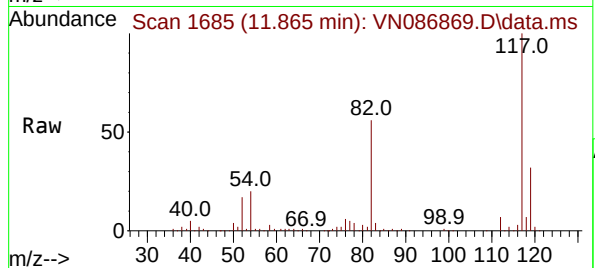
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:117 Resp: 34893
Ion Ratio Lower Upper
117 100
82 56.5 44.6 67.0
119 32.5 25.5 38.3

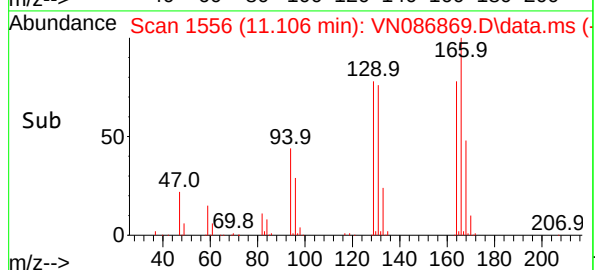
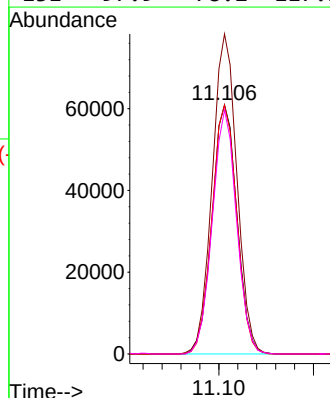
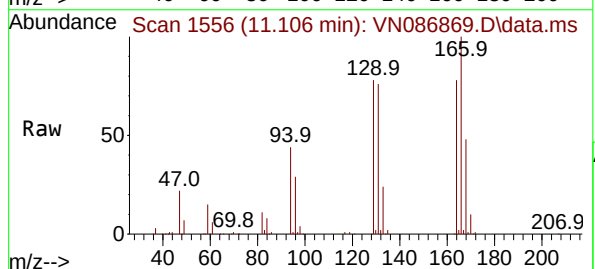
Manual Integrations
APPROVED

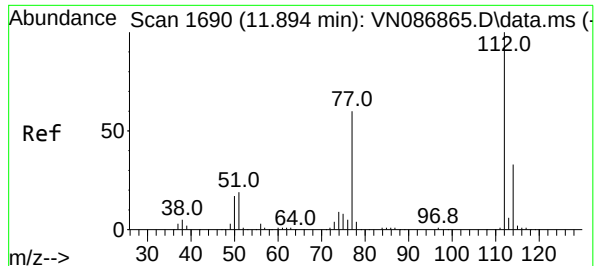
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#64
Tetrachloroethene
Concen: 50.450 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:164 Resp: 111409
Ion Ratio Lower Upper
164 100
166 128.5 101.8 152.8
129 99.9 83.0 124.4
131 97.9 78.2 117.2





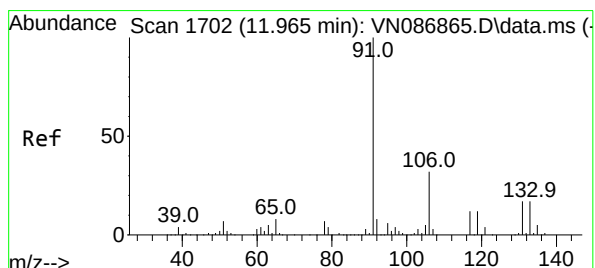
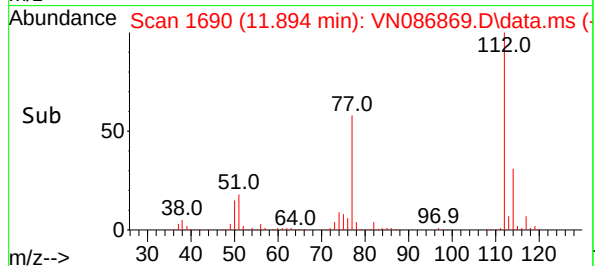
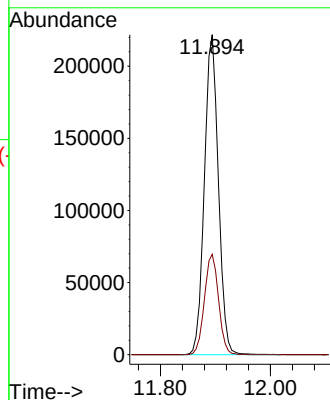
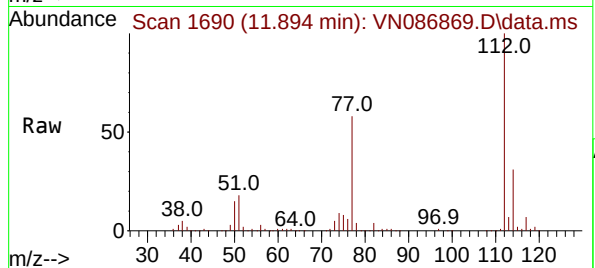
#65
Chlorobenzene
Concen: 50.892 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:112 Resp: 39166
Ion Ratio Lower Upper
112 100
114 31.3 26.2 39.2

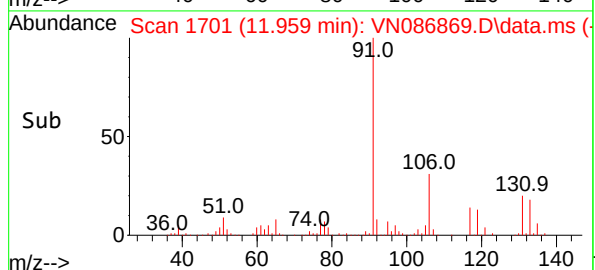
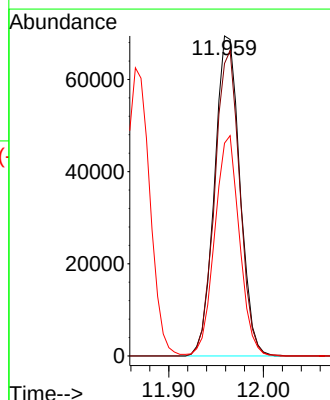
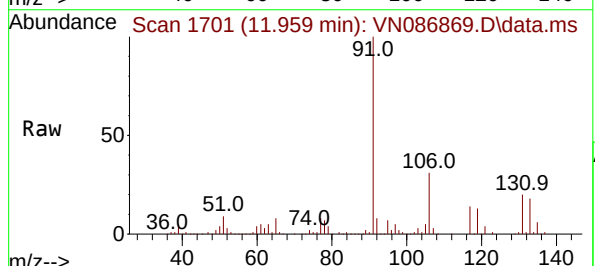
Manual Integrations
APPROVED

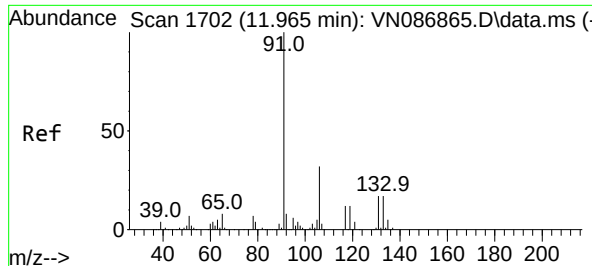
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 52.164 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:131 Resp: 129045
Ion Ratio Lower Upper
131 100
133 94.5 48.3 144.8
119 67.4 34.0 101.8





#67

Ethyl Benzene

Concen: 51.590 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

Tgt Ion: 91 Resp: 683879

Ion Ratio Lower Upper

91 100

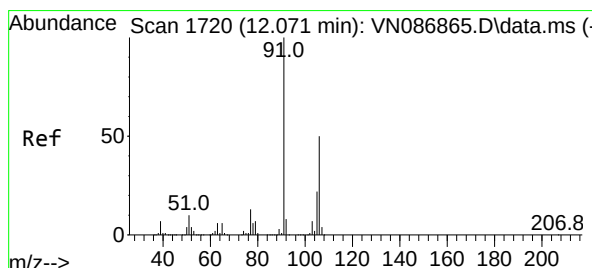
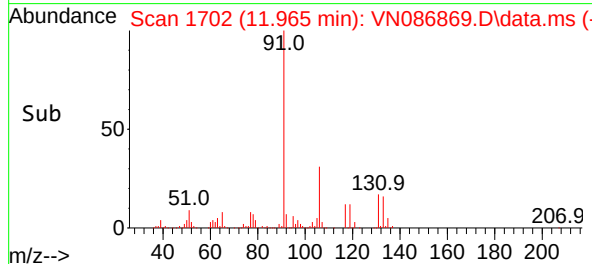
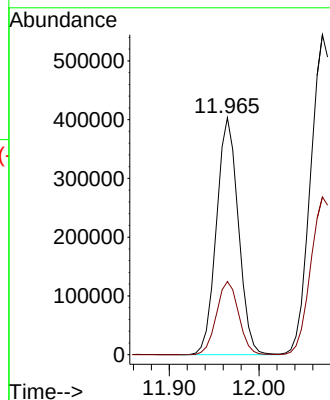
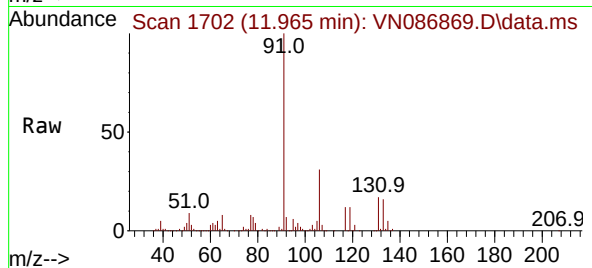
106 30.9 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#68

m/p-Xylenes

Concen: 103.912 ug/l

RT: 12.071 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN086869.D

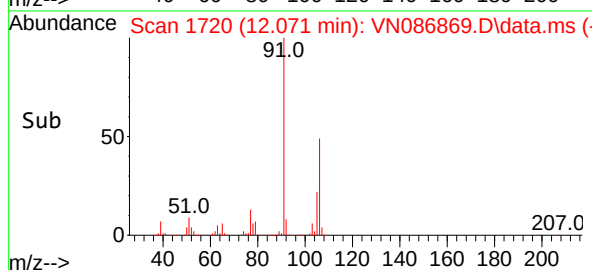
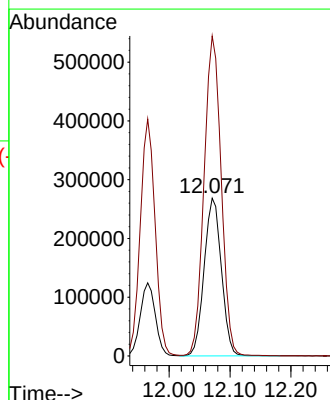
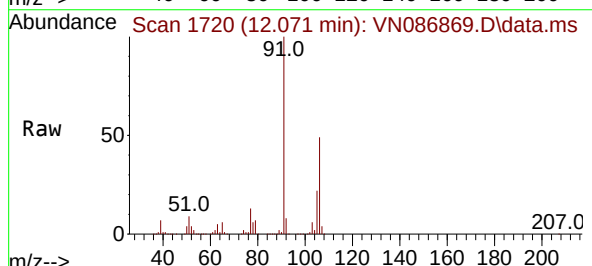
Acq: 06 Jun 2025 15:54

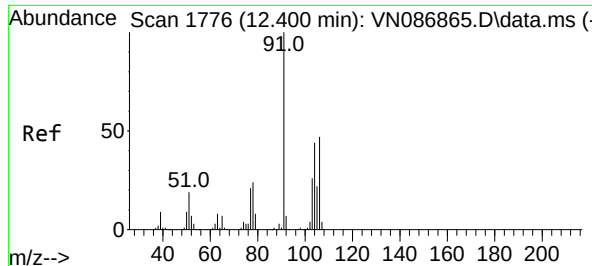
Tgt Ion:106 Resp: 527293

Ion Ratio Lower Upper

106 100

91 202.0 159.4 239.0





#69

o-Xylene

Concen: 52.387 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

Tgt Ion:106 Resp: 254600

Ion Ratio Lower Upper

106 100

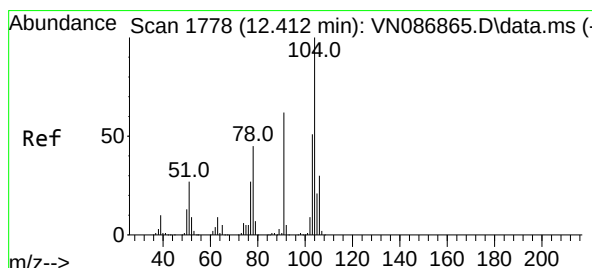
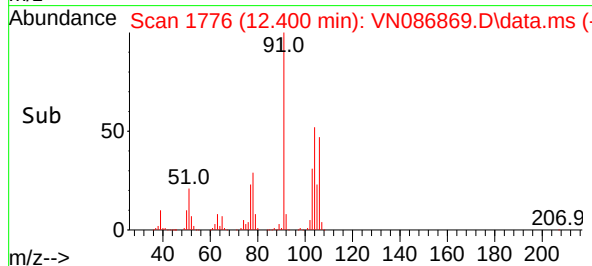
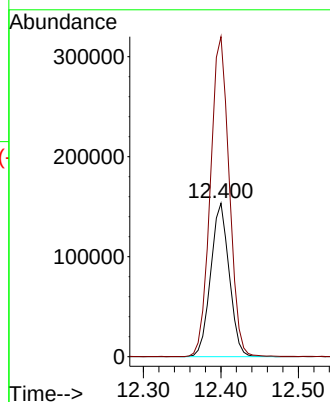
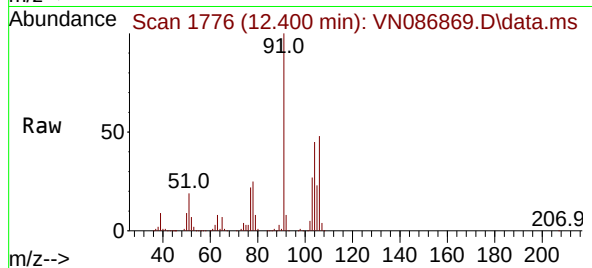
91 212.8 106.1 318.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#70

Styrene

Concen: 52.758 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

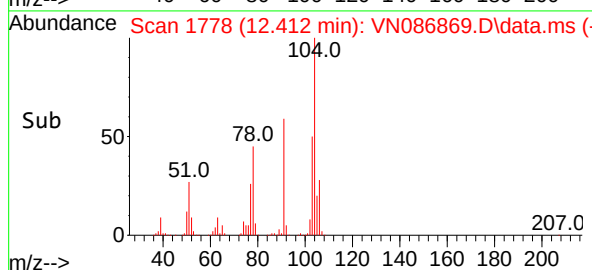
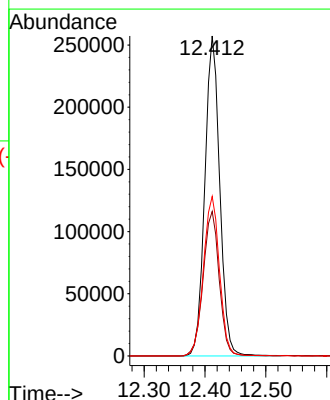
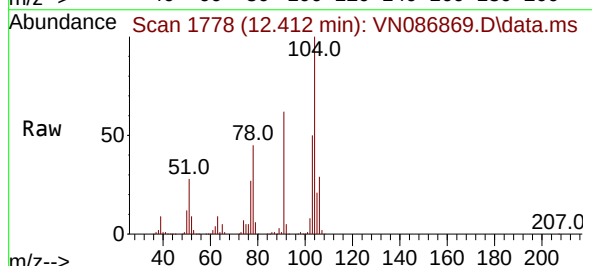
Tgt Ion:104 Resp: 438751

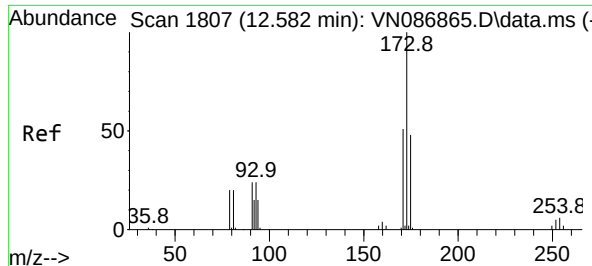
Ion Ratio Lower Upper

104 100

78 48.7 38.5 57.7

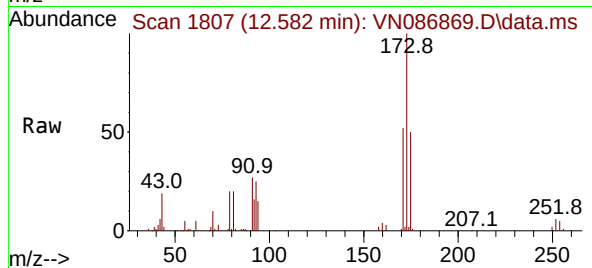
103 53.7 43.1 64.7





#71
Bromoform
Concen: 54.751 ug/l
RT: 12.582 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

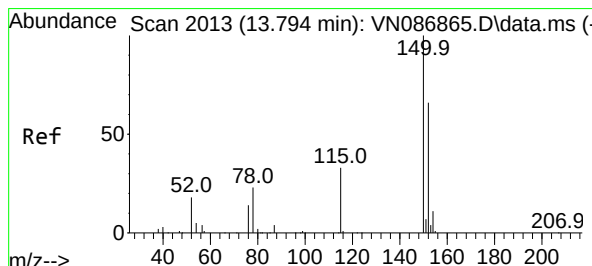
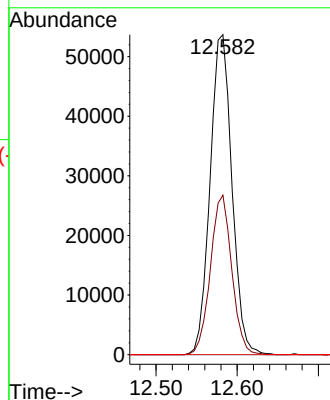
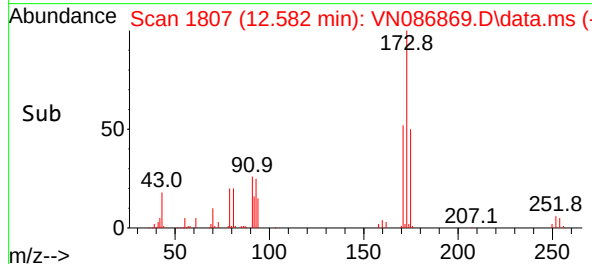
Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625



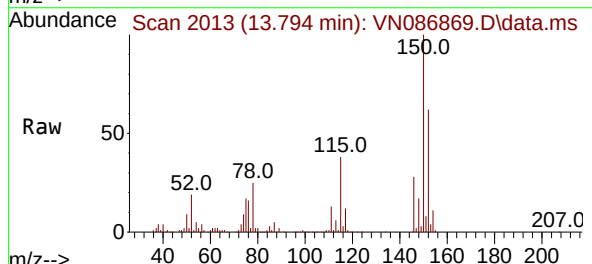
Tgt Ion:173 Resp: 10035
Ion Ratio Lower Upper
173 100
175 48.7 24.1 72.4
254 0.0 0.0 0.0

Manual Integrations
APPROVED

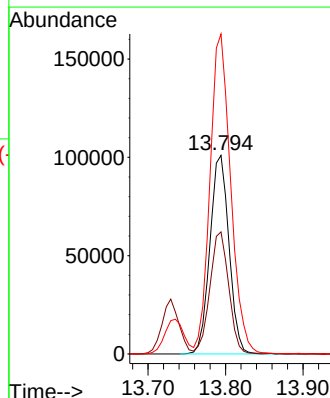
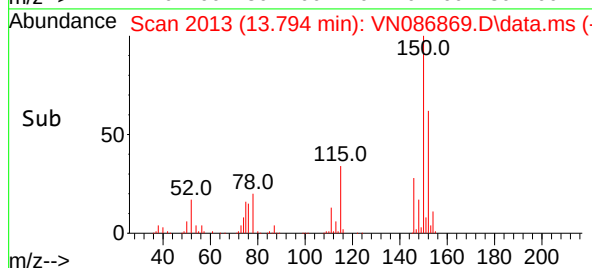
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

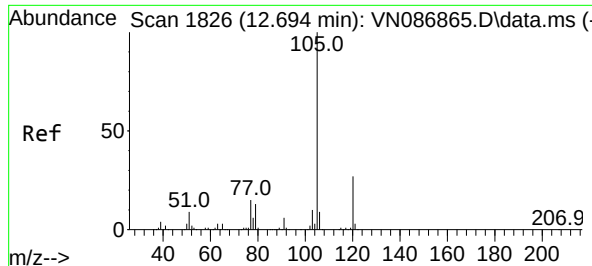


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1213
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54



Tgt Ion:152 Resp: 172710
Ion Ratio Lower Upper
152 100
115 60.6 30.1 90.5
150 174.0 0.0 345.0





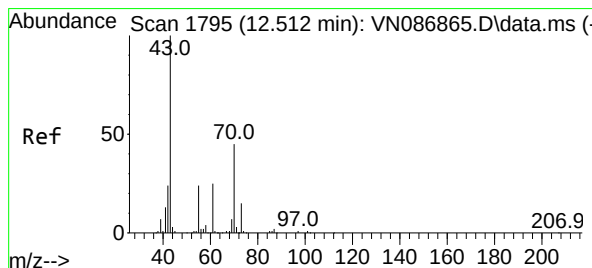
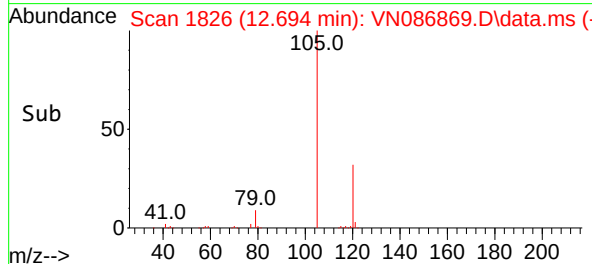
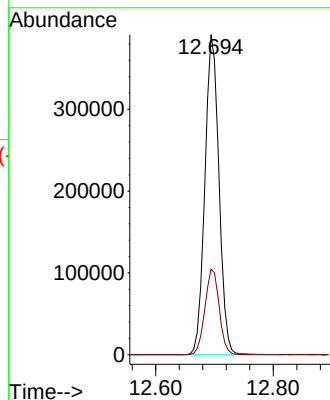
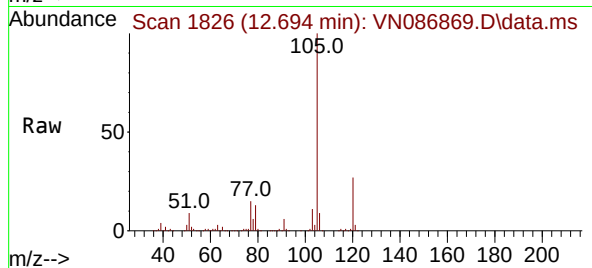
#73
Isopropylbenzene
Concen: 51.823 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:105 Resp: 65204
Ion Ratio Lower Upper
105 100
120 27.1 13.5 40.4

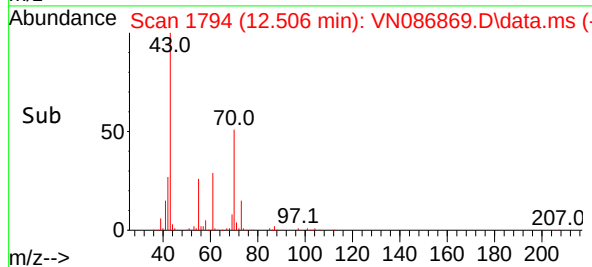
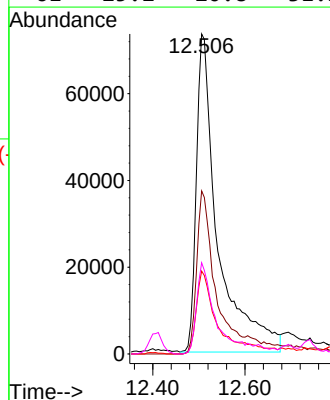
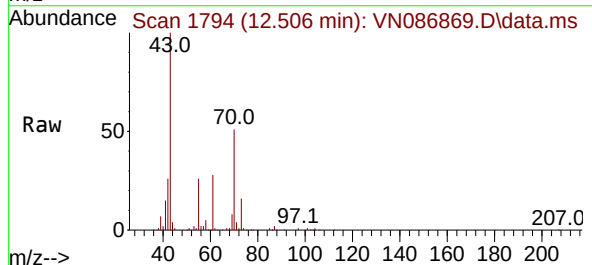
Manual Integrations
APPROVED

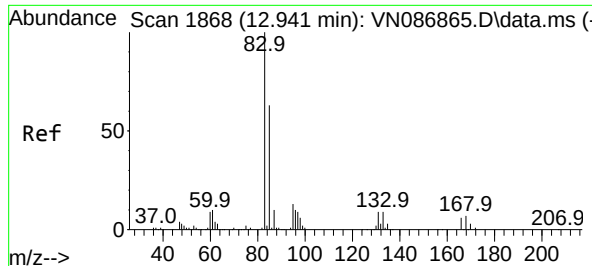
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#74
N-ethyl acetate
Concen: 54.212 ug/l
RT: 12.506 min Scan# 1794
Delta R.T. -0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

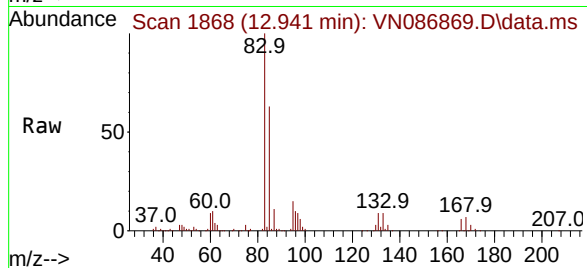
Tgt Ion: 43 Resp: 238355
Ion Ratio Lower Upper
43 100
70 49.3 37.6 56.4
55 25.3 19.0 28.6
61 25.2 20.8 31.2





#75
1,1,2,2-Tetrachloroethane
Concen: 51.763 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

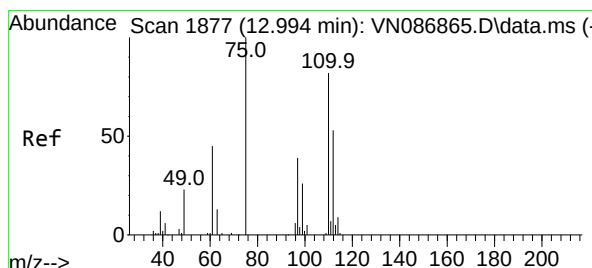
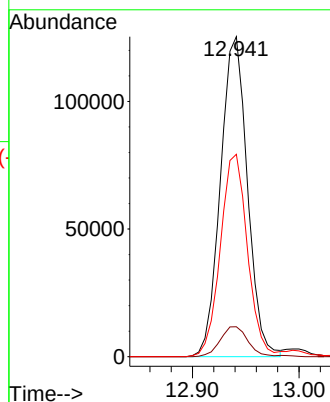
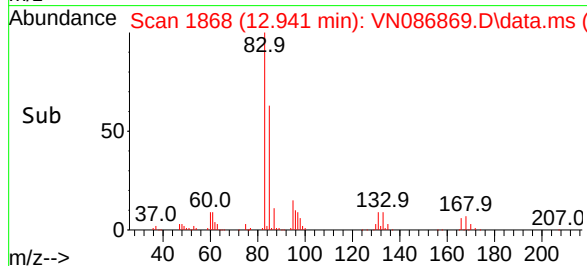
Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625



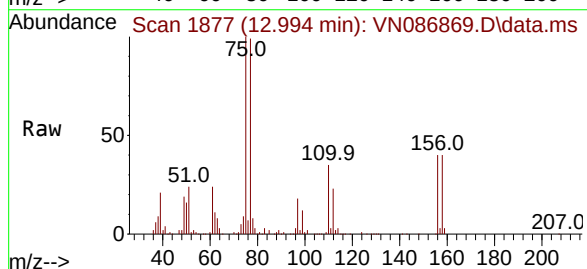
Tgt Ion: 83 Resp: 22064
Ion Ratio Lower Upper
83 100
131 9.8 4.9 14.7
85 63.9 32.0 96.0

Manual Integrations
APPROVED

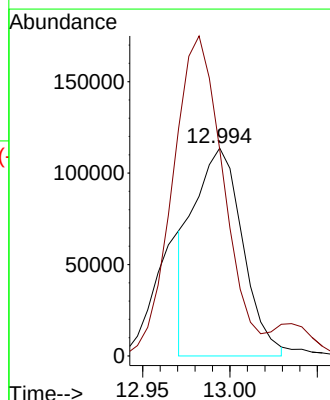
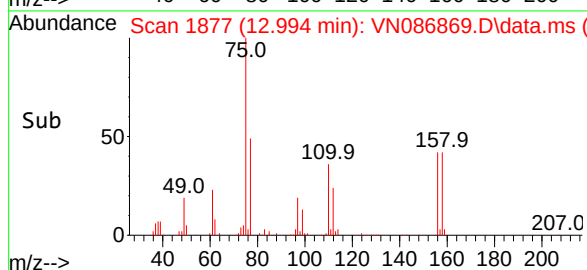
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

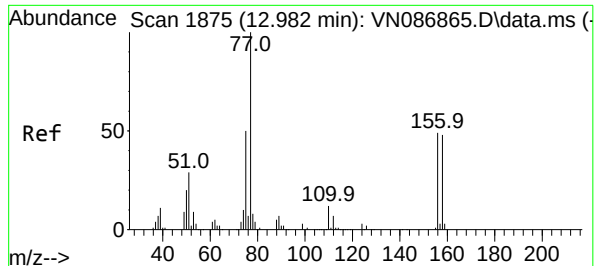


#76
1,2,3-Trichloropropane
Concen: 53.821 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54



Tgt Ion: 75 Resp: 220957
Ion Ratio Lower Upper
75 100
77 160.5 79.3 237.9





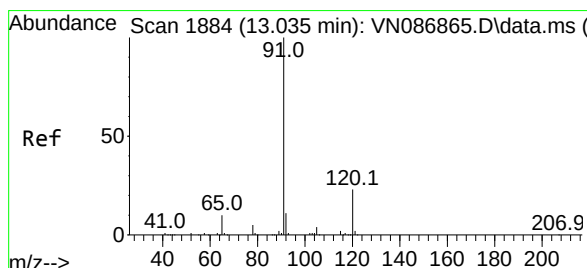
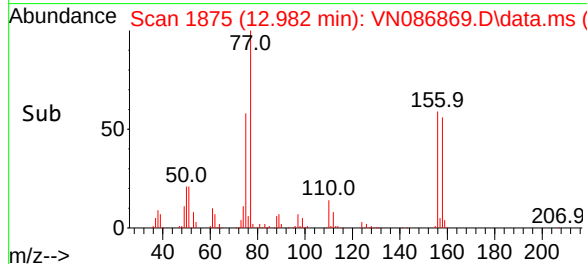
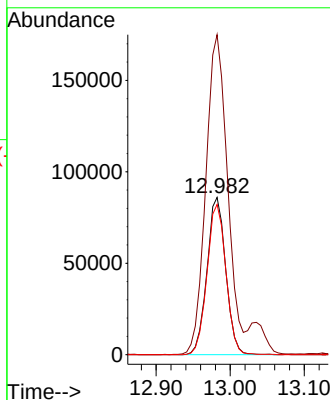
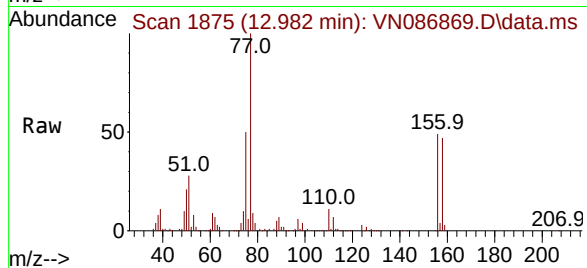
#77
Bromobenzene
Concen: 52.313 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:156 Resp: 150950
Ion Ratio Lower Upper
156 100
77 234.9 117.7 353.1
158 96.5 48.1 144.4

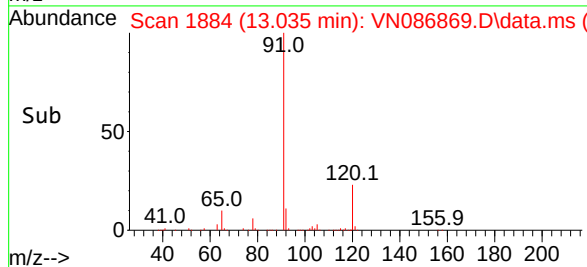
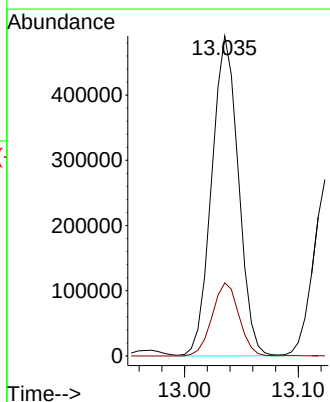
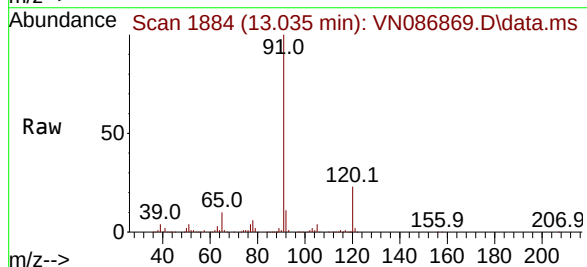
Manual Integrations
APPROVED

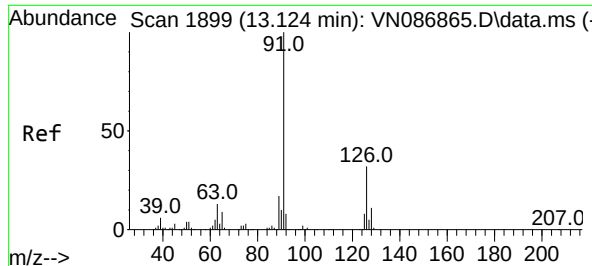
Reviewed By :John Carbone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#78
n-propylbenzene
Concen: 52.397 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 91 Resp: 801180
Ion Ratio Lower Upper
91 100
120 22.9 11.4 34.2





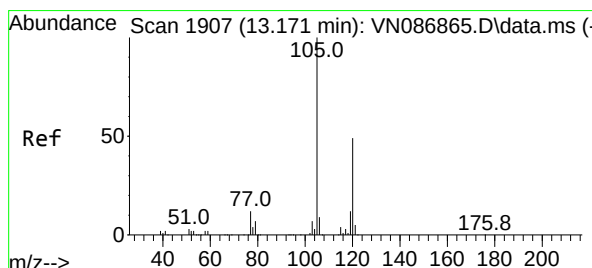
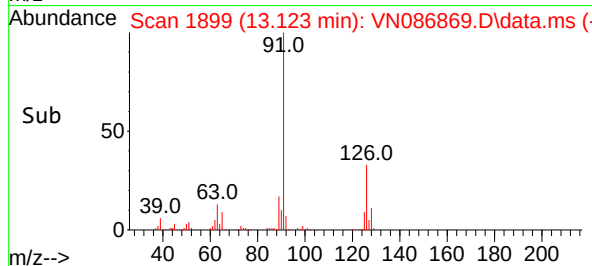
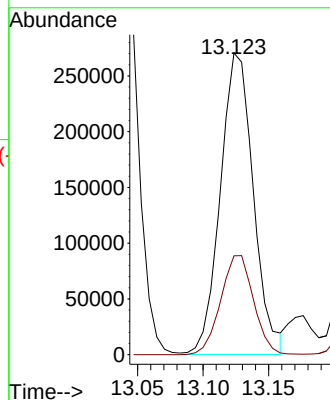
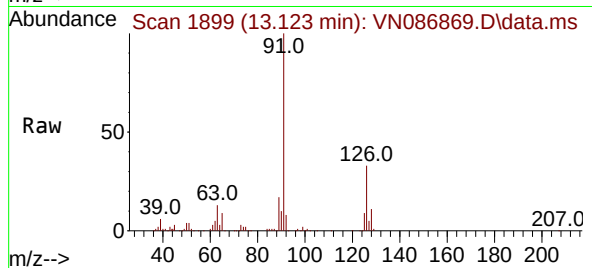
#79
2-Chlorotoluene
Concen: 51.650 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion: 91 Resp: 473629
Ion Ratio Lower Upper
91 100
126 32.8 16.2 48.5

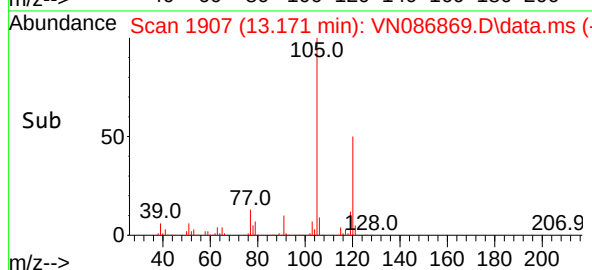
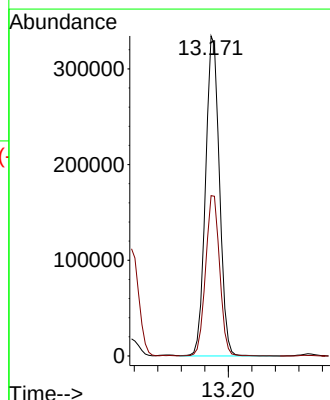
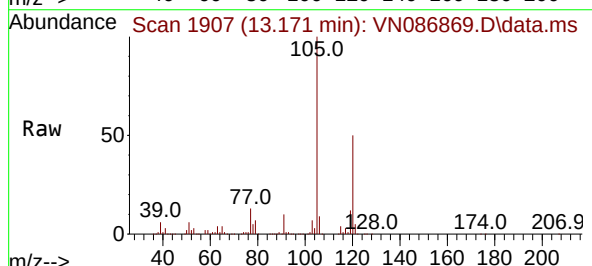
Manual Integrations
APPROVED

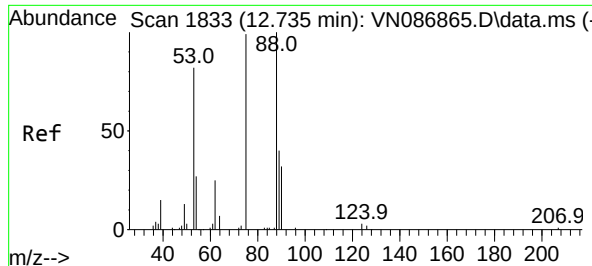
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#80
1,3,5-Trimethylbenzene
Concen: 52.787 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

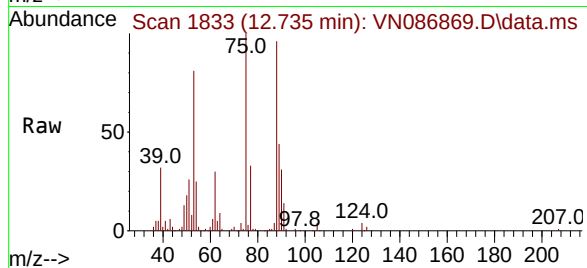
Tgt Ion:105 Resp: 548347
Ion Ratio Lower Upper
105 100
120 50.6 24.9 74.6





#81
trans-1,4-Dichloro-2-butene
Concen: 55.702 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

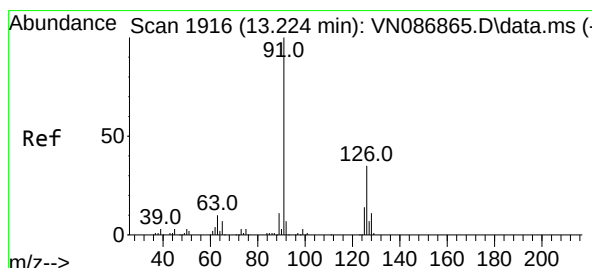
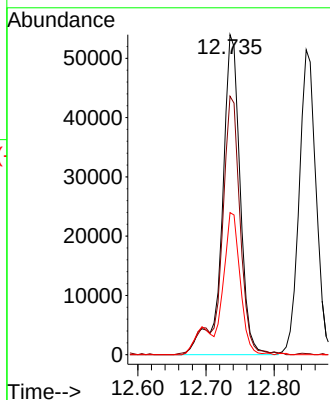
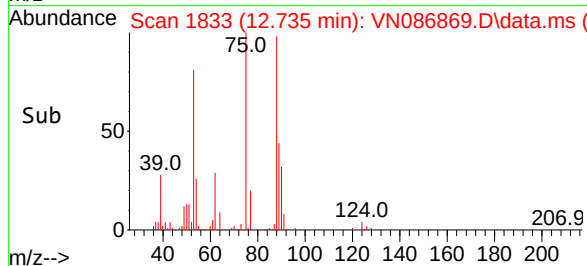
Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625



Tgt Ion: 75 Resp: 9934
Ion Ratio Lower Upper
75 100
53 83.7 66.6 99.8
89 40.4 36.7 55.1

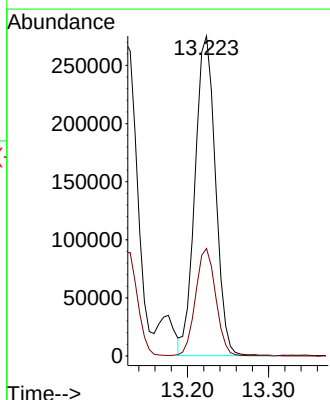
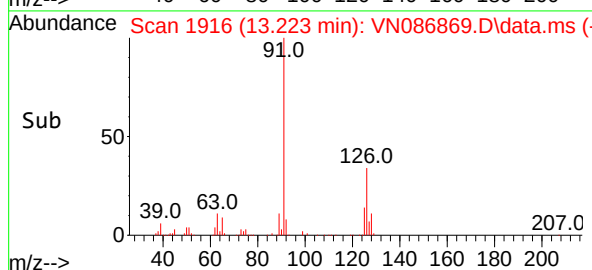
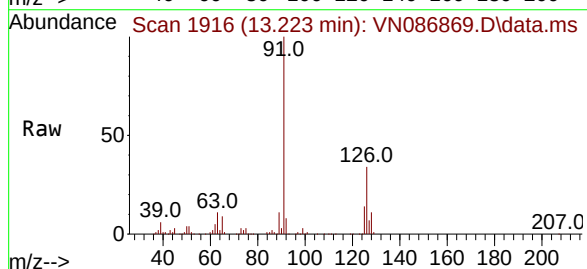
Manual Integrations
APPROVED

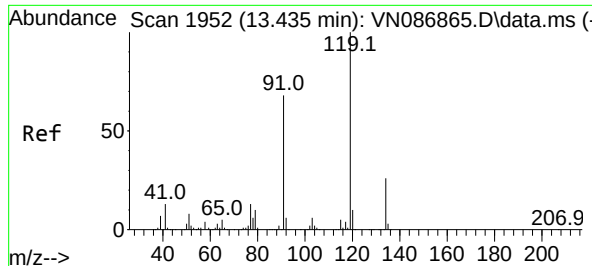
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#82
4-Chlorotoluene
Concen: 51.884 ug/l
RT: 13.223 min Scan# 1916
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

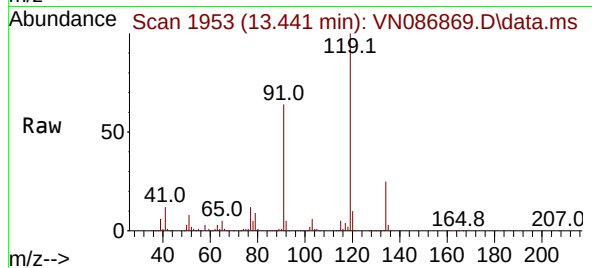
Tgt Ion: 91 Resp: 481403
Ion Ratio Lower Upper
91 100
126 33.1 16.7 50.1





#83
tert-Butylbenzene
Concen: 52.532 ug/l
RT: 13.441 min Scan# 1952
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

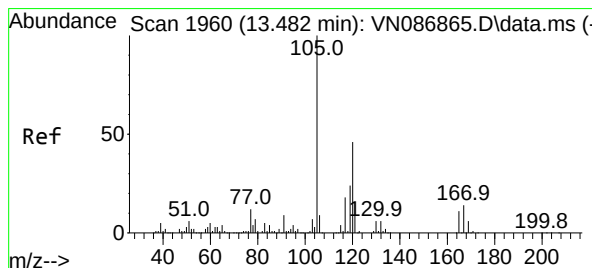
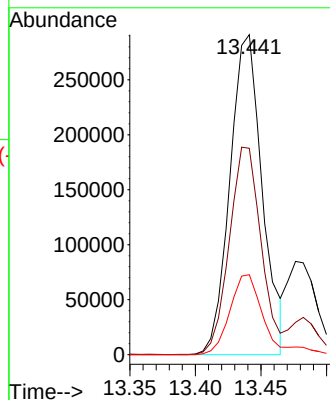
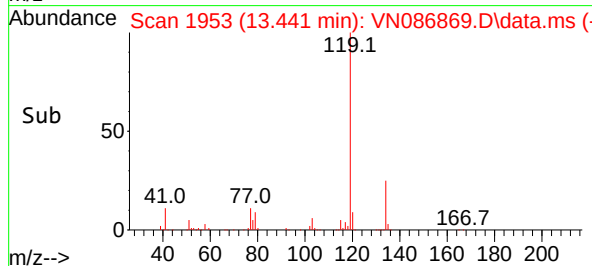
Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625



Tgt Ion:119 Resp: 499519
Ion Ratio Lower Upper
119 100
91 63.9 32.1 96.5
134 26.4 13.4 40.1

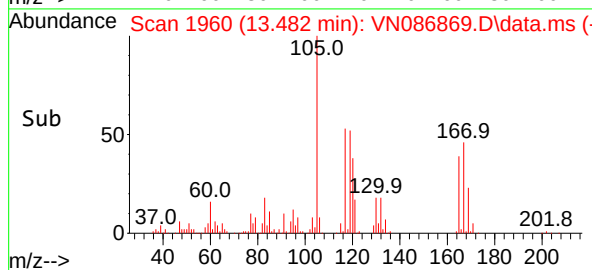
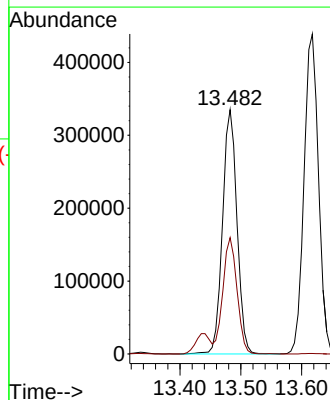
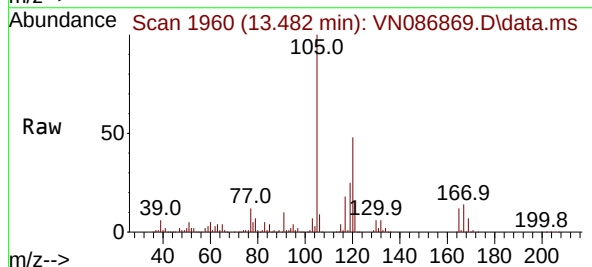
Manual Integrations
APPROVED

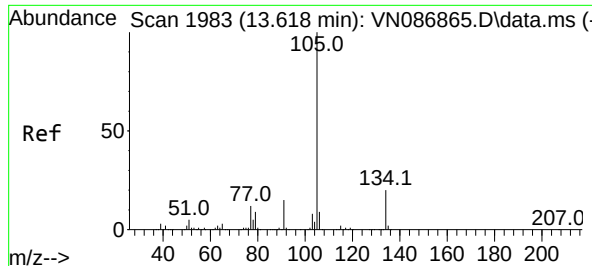
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#84
1,2,4-Trimethylbenzene
Concen: 53.024 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

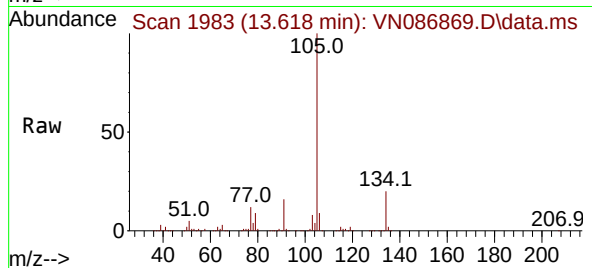
Tgt Ion:105 Resp: 552333
Ion Ratio Lower Upper
105 100
120 46.6 23.2 69.6





#85
sec-Butylbenzene
Concen: 52.428 ug/l
RT: 13.618 min Scan# 1983
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

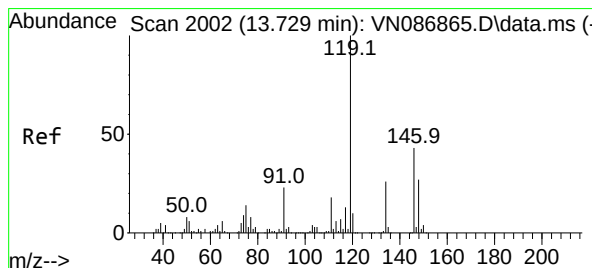
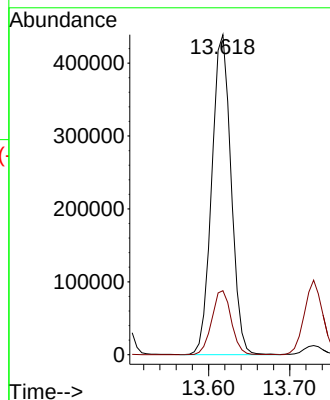
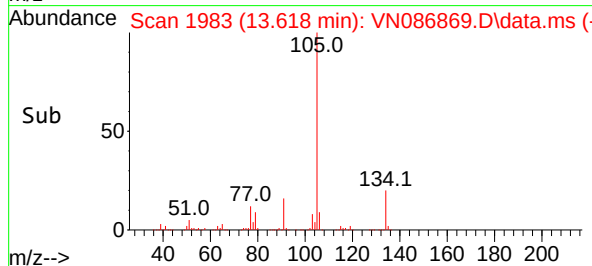
Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625



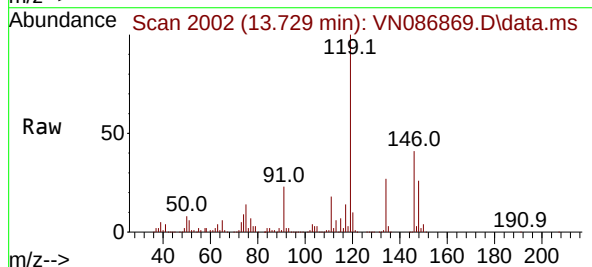
Tgt Ion:105 Resp: 723980
Ion Ratio Lower Upper
105 100
134 20.2 10.0 30.0

Manual Integrations
APPROVED

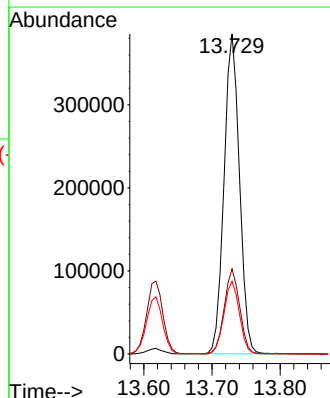
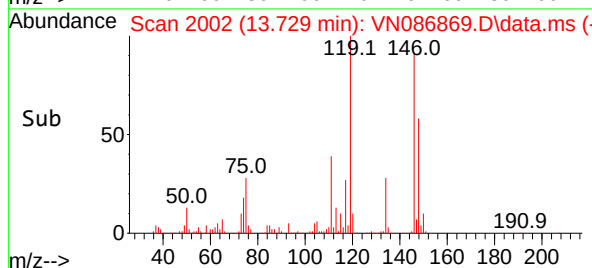
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

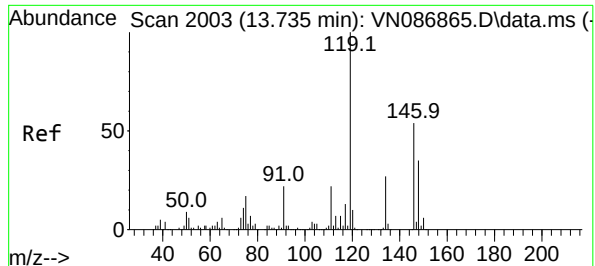


#86
p-Isopropyltoluene
Concen: 53.174 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54



Tgt Ion:119 Resp: 606979
Ion Ratio Lower Upper
119 100
134 26.5 13.5 40.4
91 22.7 11.5 34.4





#87

1,3-Dichlorobenzene

Concen: 51.224 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

ICVVN060625

Tgt Ion:146 Resp: 290810

Ion Ratio Lower Upper

146 100

111 42.1 20.9 62.8

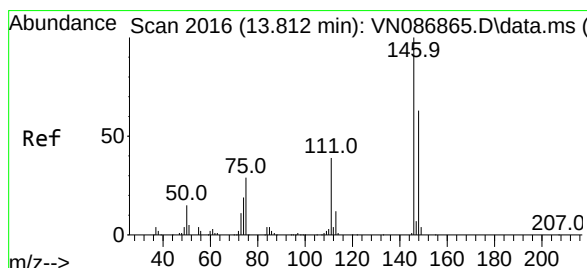
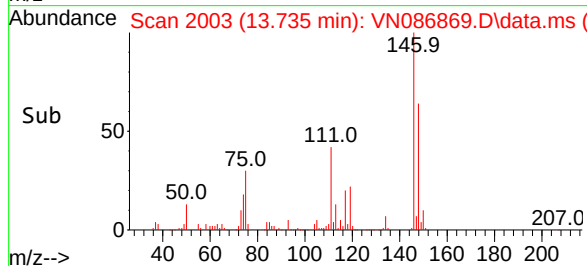
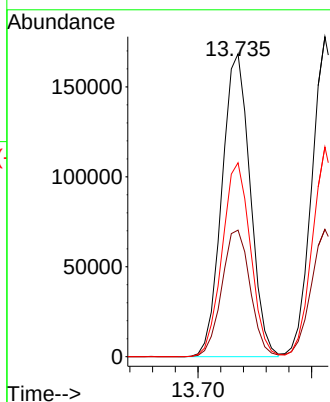
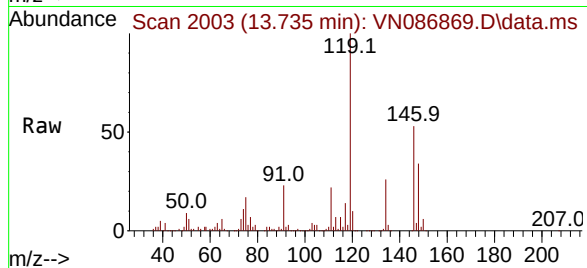
148 64.3 32.0 96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 51.557 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

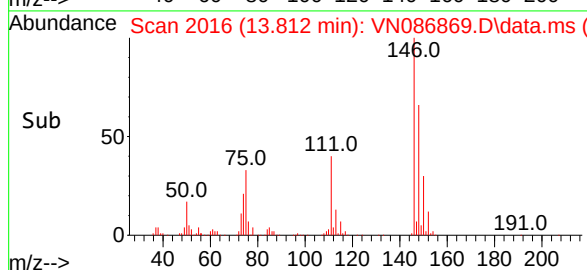
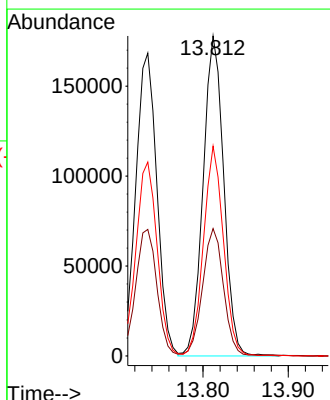
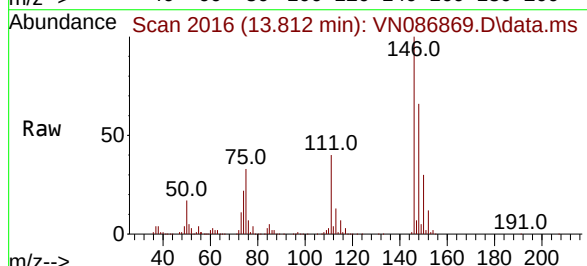
Tgt Ion:146 Resp: 298412

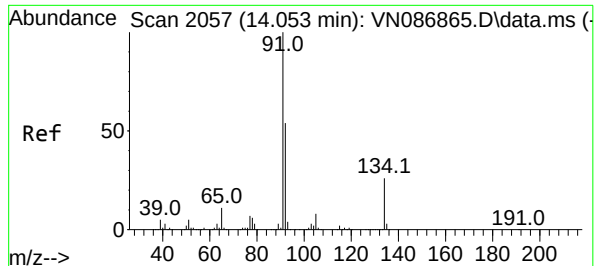
Ion Ratio Lower Upper

146 100

111 40.0 19.9 59.7

148 63.3 31.8 95.4





#89

n-Butylbenzene

Concen: 52.424 ug/l

RT: 14.059 min Scan# 2057

Delta R.T. 0.006 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

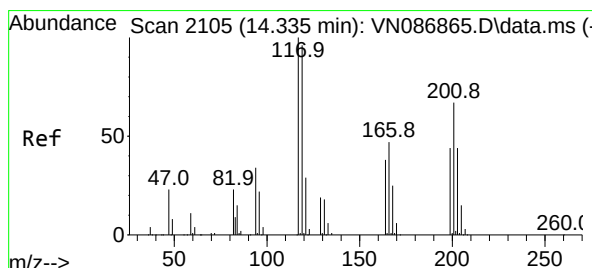
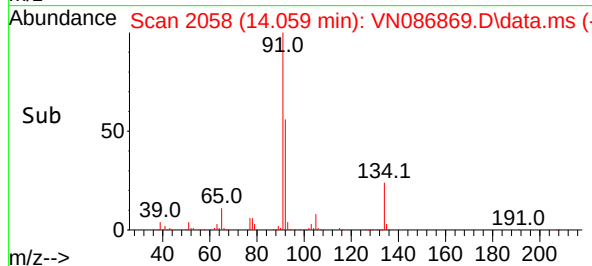
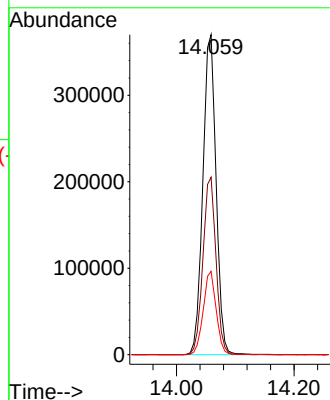
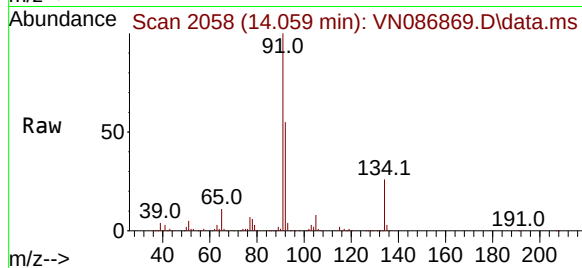
ICVVN060625

Tgt Ion:	91	Resp:	57963
Ion	Ratio	Lower	Upper
91	100		
92	55.0	27.5	82.4
134	25.5	13.0	39.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 52.847 ug/l

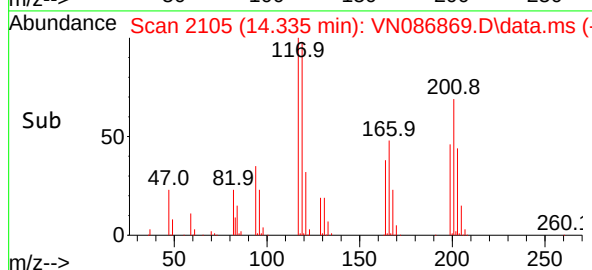
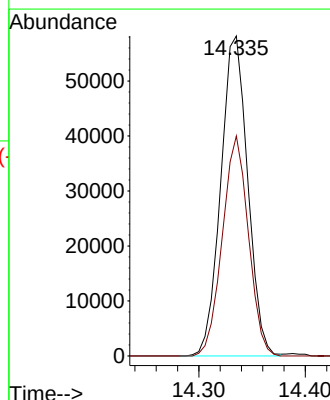
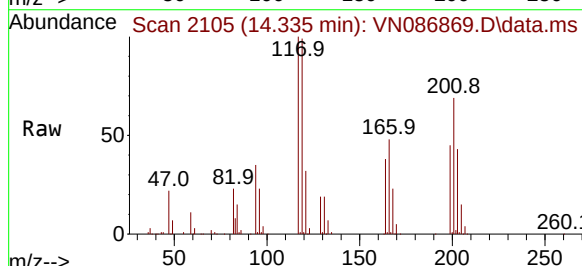
RT: 14.335 min Scan# 2105

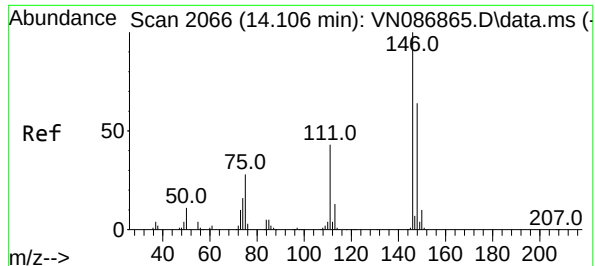
Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Tgt Ion:	117	Resp:	102254
Ion	Ratio	Lower	Upper
117	100		
201	66.4	33.2	99.6





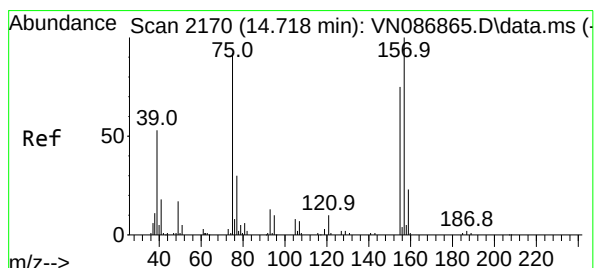
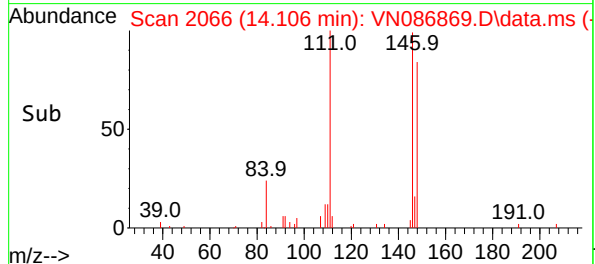
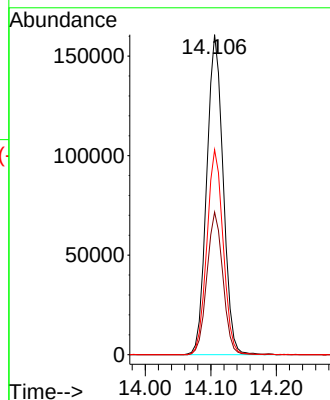
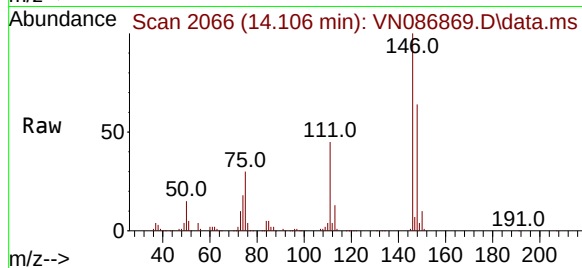
#91
1,2-Dichlorobenzene
Concen: 51.340 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Tgt Ion:146 Resp: 280025
Ion Ratio Lower Upper
146 100
111 43.5 21.6 64.6
148 63.4 31.7 95.1

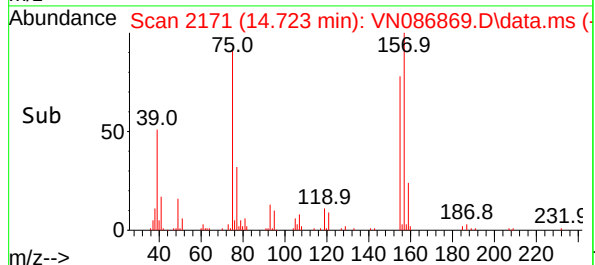
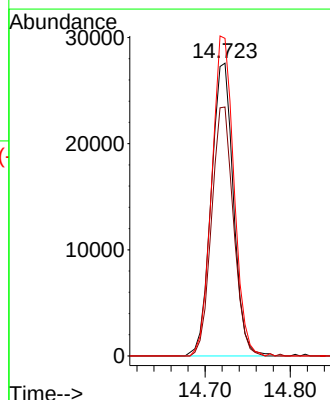
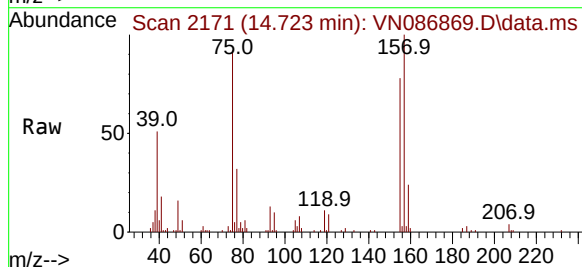
Manual Integrations
APPROVED

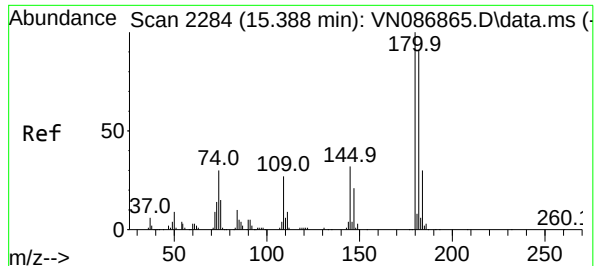
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 49.161 ug/l
RT: 14.723 min Scan# 2171
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion: 75 Resp: 50115
Ion Ratio Lower Upper
75 100
155 83.5 41.1 123.4
157 108.6 52.7 158.1





#93

1,2,4-Trichlorobenzene

Concen: 51.986 ug/l

RT: 15.394 min Scan# 2284

Delta R.T. 0.006 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

Instrument :

MSVOA_N

ClientSampleId :

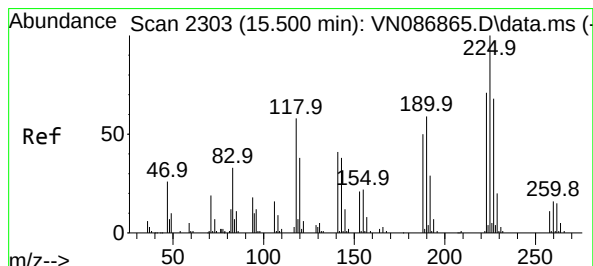
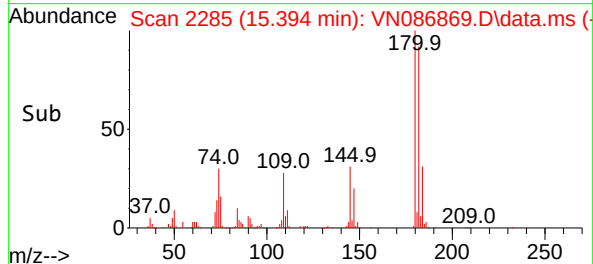
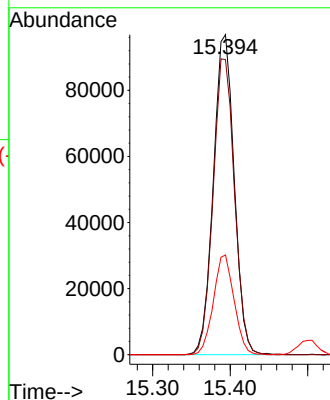
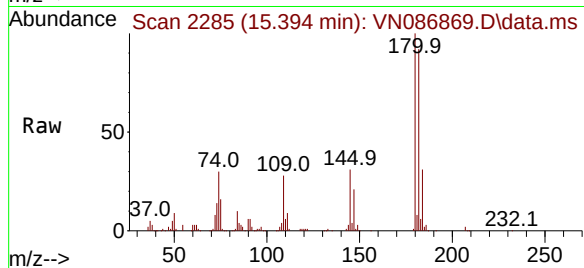
ICVVN060625

Tgt Ion:	180	Resp:	18106
Ion Ratio	Lower	Upper	
180	100		
182	94.6	46.9	140.7
145	30.8	16.0	47.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#94

Hexachlorobutadiene

Concen: 52.843 ug/l

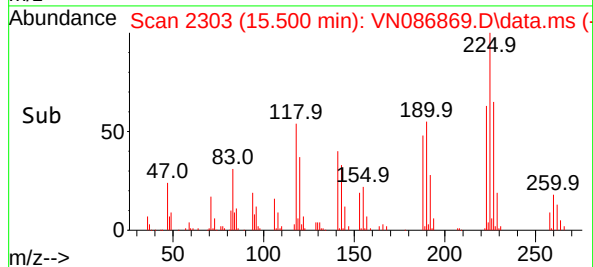
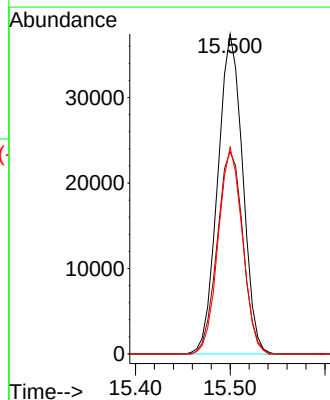
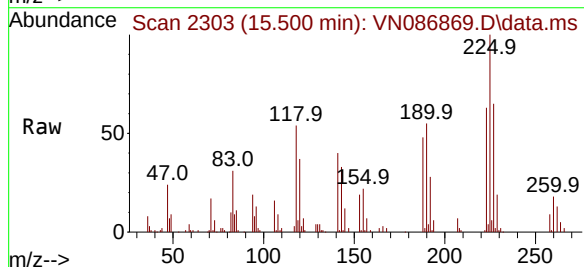
RT: 15.500 min Scan# 2303

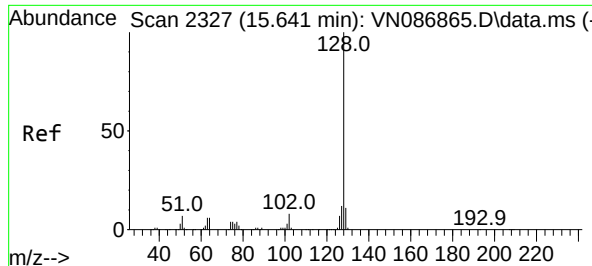
Delta R.T. -0.000 min

Lab File: VN086869.D

Acq: 06 Jun 2025 15:54

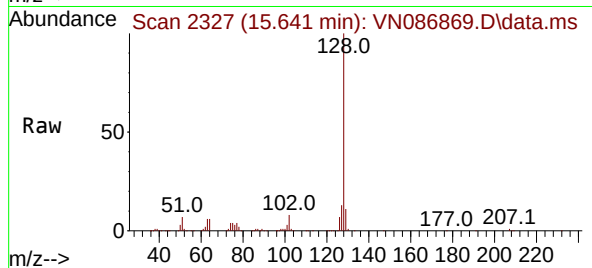
Tgt Ion:	225	Resp:	68570
Ion Ratio	Lower	Upper	
225	100		
223	65.3	33.5	100.4
227	62.5	31.1	93.5





#95
Naphthalene
Concen: 52.005 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

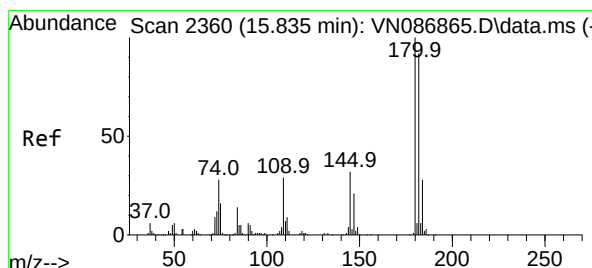
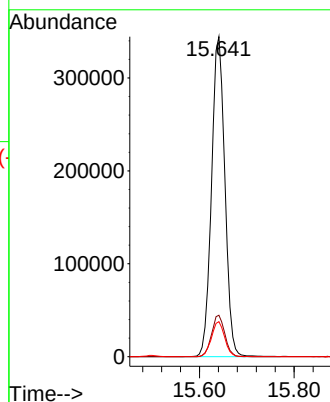
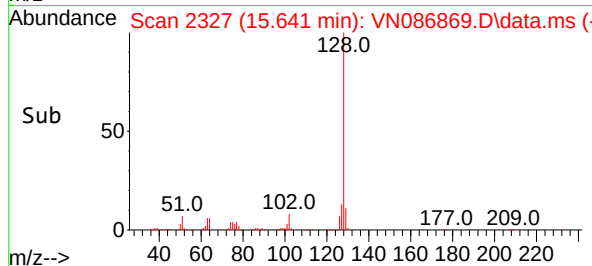
Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625



Tgt Ion:128 Resp: 67418
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.2
129 10.9 8.8 13.2

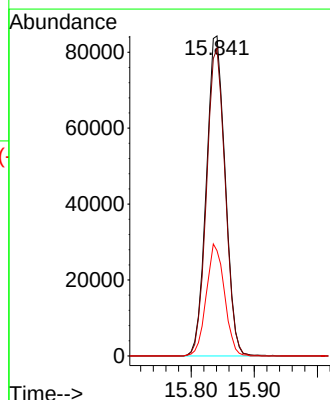
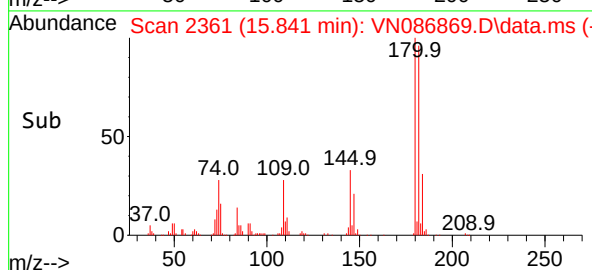
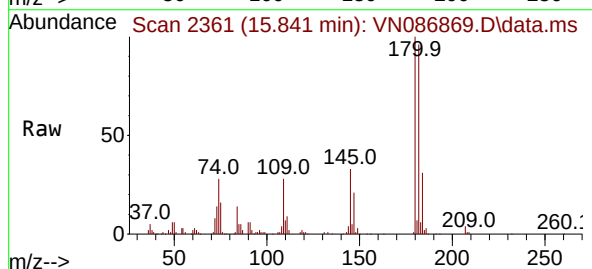
Manual Integrations
APPROVED

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



#96
1,2,3-Trichlorobenzene
Concen: 50.539 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086869.D
Acq: 06 Jun 2025 15:54

Tgt Ion:180 Resp: 174888
Ion Ratio Lower Upper
180 100
182 95.2 47.0 141.0
145 33.8 16.6 49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	105	0.00
2 T	Dichlorodifluoromethane	0.499	0.551	-10.4	116	0.00
3 P	Chloromethane	0.644	0.637	1.1	112	0.00
4 C	Vinyl Chloride	0.664	0.697	-5.0#	114	0.00
5 T	Bromomethane	0.372	0.411	-10.5	121	0.00
6 T	Chloroethane	0.429	0.439	-2.3	113	0.00
7 T	Trichlorofluoromethane	0.868	0.899	-3.6	113	0.00
8 T	Diethyl Ether	0.378	0.401	-6.1	116	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.545	0.585	-7.3	118	0.00
10 T	Methyl Iodide	0.707	0.752	-6.4	116	0.00
11 T	Tert butyl alcohol	0.182	0.191	-4.9	114	0.00
12 CM	1,1-Dichloroethene	0.557	0.575	-3.2#	113	0.00
13 T	Acrolein	0.057	0.055	3.5	128	0.00
14 T	Allyl chloride	0.923	0.932	-1.0	113	0.00
15 T	Acrylonitrile	0.425	0.440	-3.5	114	0.00
16 T	Acetone	0.355	0.350	1.4	114	0.00
17 T	Carbon Disulfide	1.539	1.556	-1.1	115	0.00
18 T	Methyl Acetate	1.035	1.074	-3.8	115	0.00
19 T	Methyl tert-butyl Ether	2.015	2.084	-3.4	113	0.00
20 T	Methylene Chloride	0.665	0.660	0.8	115	0.00
21 T	trans-1,2-Dichloroethene	0.619	0.612	1.1	113	0.00
22 T	Diisopropyl ether	1.945	2.018	-3.8	114	0.00
23 T	Vinyl Acetate	1.644	1.677	-2.0	111	0.00
24 P	1,1-Dichloroethane	1.120	1.153	-2.9	114	0.00
25 T	2-Butanone	0.577	0.591	-2.4	113	0.00
26 T	2,2-Dichloropropane	0.871	0.993	-14.0	116	0.00
27 T	cis-1,2-Dichloroethene	0.740	0.756	-2.2	114	0.00
28 T	Bromochloromethane	0.550	0.499	9.3	113	0.00
29 T	Tetrahydrofuran	0.376	0.386	-2.7	113	0.00
30 C	Chloroform	1.118	1.139	-1.9#	113	0.00
31 T	Cyclohexane	1.086	1.090	-0.4	114	0.00
32 T	1,1,1-Trichloroethane	0.951	0.962	-1.2	113	0.00
33 S	1,2-Dichloroethane-d4	0.669	0.698	-4.3	147	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
35 S	Dibromofluoromethane	0.296	0.322	-8.8	153#	0.00
36 T	1,1-Dichloropropene	0.442	0.460	-4.1	115	0.00
37 T	Ethyl Acetate	0.562	0.563	-0.2	109	0.00
38 T	Carbon Tetrachloride	0.433	0.455	-5.1	116	0.00
39 T	Methylcyclohexane	0.605	0.637	-5.3	116	0.00
40 TM	Benzene	1.444	1.471	-1.9	114	0.00
41 T	Methacrylonitrile	0.316	0.332	-5.1	114	0.00
42 TM	1,2-Dichloroethane	0.438	0.451	-3.0	114	0.00
43 T	Isopropyl Acetate	0.902	0.912	-1.1	111	0.00
44 TM	Trichloroethene	0.342	0.355	-3.8	113	0.00
45 C	1,2-Dichloropropane	0.351	0.361	-2.8#	113	0.00
46 T	Dibromomethane	0.233	0.247	-6.0	116	0.00
47 T	Bromodichloromethane	0.480	0.498	-3.8	113	0.00
48 T	Methyl methacrylate	0.415	0.426	-2.7	113	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	0.008	0.008	0.0	112	0.00
50 S	Toluene-d8	1.173	1.246	-6.2	151#	0.00
51 T	4-Methyl-2-Pentanone	0.543	0.582	-7.2	113	0.00
52 CM	Toluene	0.882	0.918	-4.1#	114	0.00
53 T	t-1,3-Dichloropropene	0.537	0.570	-6.1	114	0.00
54 T	cis-1,3-Dichloropropene	0.574	0.603	-5.1	114	0.00
55 T	1,1,2-Trichloroethane	0.340	0.350	-2.9	113	0.00
56 T	Ethyl methacrylate	0.541	0.613	-13.3	115	0.00
57 T	1,3-Dichloropropane	0.589	0.605	-2.7	112	0.00
58 T	2-Chloroethyl Vinyl ether	0.323	0.317	1.9	120	0.00
59 T	2-Hexanone	0.350	0.397	-13.4	112	0.00
60 T	Dibromochloromethane	0.354	0.372	-5.1	114	0.00
61 T	1,2-Dibromoethane	0.348	0.361	-3.7	114	0.00
62 S	4-Bromofluorobenzene	0.436	0.471	-8.0	151#	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
64 T	Tetrachloroethene	0.316	0.319	-0.9	114	0.00
65 PM	Chlorobenzene	1.103	1.122	-1.7	115	0.00
66 T	1,1,1,2-Tetrachloroethane	0.354	0.370	-4.5	115	0.00
67 C	Ethyl Benzene	1.899	1.960	-3.2#	114	0.00
68 T	m/p-Xylenes	0.727	0.756	-4.0	113	0.00
69 T	o-Xylene	0.696	0.730	-4.9	114	0.00
70 T	Styrene	1.192	1.257	-5.5	113	0.00
71 P	Bromoform	0.263	0.288	-9.5	114	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
73 T	Isopropylbenzene	3.643	3.775	-3.6	114	0.00
74 T	N-amyl acetate	1.273	1.380	-8.4	112	0.00
75 P	1,1,2,2-Tetrachloroethane	1.234	1.278	-3.6	112	0.00
76 T	1,2,3-Trichloropropane	1.189	1.279	-7.6	112	0.00
77 T	Bromobenzene	0.835	0.874	-4.7	114	0.00
78 T	n-propylbenzene	4.427	4.639	-4.8	114	0.00
79 T	2-Chlorotoluene	2.655	2.742	-3.3	113	0.00
80 T	1,3,5-Trimethylbenzene	3.007	3.175	-5.6	113	0.00
81 T	trans-1,4-Dichloro-2-butene	0.516	0.575	-11.4	125	0.00
82 T	4-Chlorotoluene	2.686	2.787	-3.8	114	0.00
83 T	tert-Butylbenzene	2.753	2.892	-5.0	114	0.00
84 T	1,2,4-Trimethylbenzene	3.016	3.198	-6.0	113	0.00
85 T	sec-Butylbenzene	3.998	4.192	-4.9	113	0.00
86 T	p-Isopropyltoluene	3.305	3.514	-6.3	114	0.00
87 T	1,3-Dichlorobenzene	1.644	1.684	-2.4	112	0.00
88 T	1,4-Dichlorobenzene	1.676	1.728	-3.1	113	0.00
89 T	n-Butylbenzene	3.201	3.356	-4.8	113	0.00
90 T	Hexachloroethane	0.560	0.592	-5.7	114	0.00
91 T	1,2-Dichlorobenzene	1.579	1.621	-2.7	111	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.295	0.290	1.7	110	0.00
93 T	1,2,4-Trichlorobenzene	1.008	1.048	-4.0	112	0.00
94 T	Hexachlorobutadiene	0.376	0.397	-5.6	113	0.00
95 T	Naphthalene	3.753	3.904	-4.0	112	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	1.013	-1.1	110	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	105	0.00
2 T	Dichlorodifluoromethane	50.000	55.286	-10.6	116	0.00
3 P	Chloromethane	50.000	49.505	1.0	112	0.00
4 C	Vinyl Chloride	50.000	52.451	-4.9#	114	0.00
5 T	Bromomethane	50.000	55.292	-10.6	121	0.00
6 T	Chloroethane	50.000	51.117	-2.2	113	0.00
7 T	Trichlorofluoromethane	50.000	51.819	-3.6	113	0.00
8 T	Diethyl Ether	50.000	53.001	-6.0	116	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	53.615	-7.2	118	0.00
10 T	Methyl Iodide	50.000	53.227	-6.5	116	0.00
11 T	Tert butyl alcohol	250.000	262.193	-4.9	114	0.00
12 CM	1,1-Dichloroethene	50.000	51.678	-3.4#	113	0.00
13 T	Acrolein	250.000	240.545	3.8	128	0.00
14 T	Allyl chloride	50.000	50.504	-1.0	113	0.00
15 T	Acrylonitrile	250.000	258.885	-3.6	114	0.00
16 T	Acetone	250.000	246.750	1.3	114	0.00
17 T	Carbon Disulfide	50.000	50.550	-1.1	115	0.00
18 T	Methyl Acetate	50.000	51.912	-3.8	115	0.00
19 T	Methyl tert-butyl Ether	50.000	51.720	-3.4	113	0.00
20 T	Methylene Chloride	50.000	49.617	0.8	115	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.437	1.1	113	0.00
22 T	Diisopropyl ether	50.000	51.853	-3.7	114	0.00
23 T	Vinyl Acetate	250.000	255.055	-2.0	111	0.00
24 P	1,1-Dichloroethane	50.000	51.487	-3.0	114	0.00
25 T	2-Butanone	250.000	255.897	-2.4	113	0.00
26 T	2,2-Dichloropropane	50.000	57.031	-14.1	116	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.073	-2.1	114	0.00
28 T	Bromochloromethane	50.000	45.310	9.4	113	0.00
29 T	Tetrahydrofuran	250.000	256.656	-2.7	113	0.00
30 C	Chloroform	50.000	50.933	-1.9#	113	0.00
31 T	Cyclohexane	50.000	50.212	-0.4	114	0.00
32 T	1,1,1-Trichloroethane	50.000	50.603	-1.2	113	0.00
33 S	1,2-Dichloroethane-d4	50.000	52.135	-4.3	147	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
35 S	Dibromofluoromethane	50.000	54.416	-8.8	153	0.00
36 T	1,1-Dichloropropene	50.000	52.123	-4.2	115	0.00
37 T	Ethyl Acetate	50.000	50.125	-0.3	109	0.00
38 T	Carbon Tetrachloride	50.000	52.466	-4.9	116	0.00
39 T	Methylcyclohexane	50.000	52.686	-5.4	116	0.00
40 TM	Benzene	50.000	50.931	-1.9	114	0.00
41 T	Methacrylonitrile	50.000	52.607	-5.2	114	0.00
42 TM	1,2-Dichloroethane	50.000	51.489	-3.0	114	0.00
43 T	Isopropyl Acetate	50.000	50.536	-1.1	111	0.00
44 TM	Trichloroethene	50.000	51.788	-3.6	113	0.00
45 C	1,2-Dichloropropane	50.000	51.450	-2.9#	113	0.00
46 T	Dibromomethane	50.000	52.849	-5.7	116	0.00
47 T	Bromodichloromethane	50.000	51.824	-3.6	113	0.00
48 T	Methyl methacrylate	50.000	51.328	-2.7	113	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	1110.123	-11.0	112	0.00
50 S	Toluene-d8	50.000	53.129	-6.3	151	0.00
51 T	4-Methyl-2-Pentanone	250.000	267.835	-7.1	113	0.00
52 CM	Toluene	50.000	52.040	-4.1#	114	0.00
53 T	t-1,3-Dichloropropene	50.000	53.137	-6.3	114	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.519	-5.0	114	0.00
55 T	1,1,2-Trichloroethane	50.000	51.562	-3.1	113	0.00
56 T	Ethyl methacrylate	50.000	56.688	-13.4	115	0.00
57 T	1,3-Dichloropropane	50.000	51.386	-2.8	112	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	246.006	1.6	120	0.00
59 T	2-Hexanone	250.000	283.478	-13.4	112	0.00
60 T	Dibromochloromethane	50.000	52.627	-5.3	114	0.00
61 T	1,2-Dibromoethane	50.000	51.887	-3.8	114	0.00
62 S	4-Bromofluorobenzene	50.000	54.081	-8.2	151	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	105	0.00
64 T	Tetrachloroethene	50.000	50.450	-0.9	114	0.00
65 PM	Chlorobenzene	50.000	50.892	-1.8	115	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	52.164	-4.3	115	0.00
67 C	Ethyl Benzene	50.000	51.590	-3.2#	114	0.00
68 T	m/p-Xylenes	100.000	103.912	-3.9	113	0.00
69 T	o-Xylene	50.000	52.387	-4.8	114	0.00
70 T	Styrene	50.000	52.758	-5.5	113	0.00
71 P	Bromoform	50.000	54.751	-9.5	114	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	103	0.00
73 T	Isopropylbenzene	50.000	51.823	-3.6	114	0.00
74 T	N-amyl acetate	50.000	54.212	-8.4	112	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	51.763	-3.5	112	0.00
76 T	1,2,3-Trichloropropane	50.000	53.821	-7.6	112	0.00
77 T	Bromobenzene	50.000	52.313	-4.6	114	0.00
78 T	n-propylbenzene	50.000	52.397	-4.8	114	0.00
79 T	2-Chlorotoluene	50.000	51.650	-3.3	113	0.00
80 T	1,3,5-Trimethylbenzene	50.000	52.787	-5.6	113	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	55.702	-11.4	125	0.00
82 T	4-Chlorotoluene	50.000	51.884	-3.8	114	0.00
83 T	tert-Butylbenzene	50.000	52.532	-5.1	114	0.00
84 T	1,2,4-Trimethylbenzene	50.000	53.024	-6.0	113	0.00
85 T	sec-Butylbenzene	50.000	52.428	-4.9	113	0.00
86 T	p-Isopropyltoluene	50.000	53.174	-6.3	114	0.00
87 T	1,3-Dichlorobenzene	50.000	51.224	-2.4	112	0.00
88 T	1,4-Dichlorobenzene	50.000	51.557	-3.1	113	0.00
89 T	n-Butylbenzene	50.000	52.424	-4.8	113	0.00
90 T	Hexachloroethane	50.000	52.847	-5.7	114	0.00
91 T	1,2-Dichlorobenzene	50.000	51.340	-2.7	111	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.161	1.7	110	0.00
93 T	1,2,4-Trichlorobenzene	50.000	51.986	-4.0	112	0.00
94 T	Hexachlorobutadiene	50.000	52.843	-5.7	113	0.00
95 T	Naphthalene	50.000	52.005	-4.0	112	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086869.D
Acq On : 06 Jun 2025 15:54
Operator : JC\MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
ICVVN060625

Quant Time: Jun 07 02:16:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.539	-1.1	110	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: JAC005
 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG No.: Q2250
 Instrument ID: MSVOA_N Calibration Date/Time: 06/10/2025 09:13
 Lab File ID: VN086913.D Init. Calib. Date(s): 06/06/2025 06/06/2025
 Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49
 GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.664	0.653		-1.66	20
1,1-Dichloroethene	0.557	0.548		-1.62	20
1,1-Dichloroethane	1.120	1.079	0.1	-3.66	20
cis-1,2-Dichloroethene	0.740	0.721		-2.57	20
1,1,1-Trichloroethane	0.951	0.894		-5.99	20
Benzene	1.444	1.400		-3.05	20
1,2-Dichloroethane	0.438	0.426		-2.74	20
Trichloroethene	0.342	0.345		0.88	20
1,1,2-Trichloroethane	0.340	0.338		-0.59	20
Tetrachloroethene	0.316	0.308		-2.53	20
1,2-Dichloroethane-d4	0.669	0.613		-8.37	20
Dibromofluoromethane	0.296	0.301		1.69	20
Toluene-d8	1.173	1.153		-1.71	20
4-Bromofluorobenzene	0.436	0.420		-3.67	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_N\Data\VN061025\
 Data File : VN086913.D
 Acq On : 10 Jun 2025 09:13
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations APPROVED

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

Quant Time: Jun 11 01:47:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	239452	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	422119	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	362285	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	170987	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.583	65	146800	45.789	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	91.580%
35) Dibromofluoromethane	8.171	113	127253	50.869	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.740%
50) Toluene-d8	10.565	98	486698	49.146	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	98.300%
62) 4-Bromofluorobenzene	12.847	95	177087	48.131	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	96.260%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.154	85	120199	50.345	ug/l	98
3) Chloromethane	2.395	50	132091	42.845	ug/l	99
4) Vinyl Chloride	2.554	62	156438	49.190	ug/l	98
5) Bromomethane	2.989	94	85611	48.104	ug/l	96
6) Chloroethane	3.154	64	100888	49.111	ug/l	96
7) Trichlorofluoromethane	3.530	101	203113	48.882	ug/l	99
8) Diethyl Ether	3.983	74	90847	50.181	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.395	101	126828	48.583	ug/l	98
10) Methyl Iodide	4.612	142	142941	42.239	ug/l	99
11) Tert butyl alcohol	5.536	59	177401	203.929	ug/l	99
12) 1,1-Dichloroethene	4.371	96	131127	49.200	ug/l	96
13) Acrolein	4.195	56	63063	229.021	ug/l	98
14) Allyl chloride	5.048	41	197016	44.573	ug/l	96
15) Acrylonitrile	5.736	53	467151	229.750	ug/l	100
16) Acetone	4.442	43	416888	245.204	ug/l	100
17) Carbon Disulfide	4.736	76	341962	46.386	ug/l	99
18) Methyl Acetate	5.042	43	225420	45.497	ug/l	98
19) Methyl tert-butyl Ether	5.812	73	478684	49.605	ug/l	99
20) Methylene Chloride	5.295	84	147723	46.410	ug/l	95
21) trans-1,2-Dichloroethene	5.806	96	140464	47.370	ug/l	97
22) Diisopropyl ether	6.683	45	439557	47.178	ug/l	98
23) Vinyl Acetate	6.618	43	1865051	236.925	ug/l	98
24) 1,1-Dichloroethane	6.589	63	258382	48.190	ug/l	100
25) 2-Butanone	7.489	43	590344	213.617	ug/l	96
26) 2,2-Dichloropropane	7.500	77	225847	54.150	ug/l	100
27) cis-1,2-Dichloroethene	7.500	96	172582	48.666	ug/l	99
28) Bromochloromethane	7.824	49	113231	42.951	ug/l	92
29) Tetrahydrofuran	7.847	42	389154	216.165	ug/l	96
30) Chloroform	7.977	83	252183	47.097	ug/l	99
31) Cyclohexane	8.265	56	217182	41.767	ug/l	94
32) 1,1,1-Trichloroethane	8.177	97	214121	47.016	ug/l	98
36) 1,1-Dichloropropene	8.377	75	184378	49.463	ug/l	99
37) Ethyl Acetate	7.571	43	220517	46.471	ug/l	98
38) Carbon Tetrachloride	8.371	117	181026	49.466	ug/l	99
39) Methylcyclohexane	9.606	83	220974	43.269	ug/l	93
40) Benzene	8.612	78	591102	48.493	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
 Data File : VN086913.D
 Acq On : 10 Jun 2025 09:13
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 01:47:05 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M

Quant Title : SW846 8260

QLast Update : Sat Jun 07 02:12:50 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.783	41	120605	45.256	ug/l	93
42) 1,2-Dichloroethane	8.677	62	179943	48.671	ug/l	100
43) Isopropyl Acetate	8.694	43	350324	45.998	ug/l	97
44) Trichloroethene	9.359	130	145683	50.404	ug/l	96
45) 1,2-Dichloropropane	9.624	63	145320	49.004	ug/l	100
46) Dibromomethane	9.712	93	99996	50.766	ug/l	99
47) Bromodichloromethane	9.888	83	202301	49.918	ug/l	99
48) Methyl methacrylate	9.683	41	159853	45.601	ug/l	96
49) 1,4-Dioxane	9.700	88	56947	892.983	ug/l #	97
51) 4-Methyl-2-Pentanone	10.447	43	1081942	235.975	ug/l	97
52) Toluene	10.630	92	367587	49.345	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	234554	51.759	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	249744	51.506	ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	142700	49.785	ug/l	98
56) Ethyl methacrylate	10.877	69	248574	54.447	ug/l	93
57) 1,3-Dichloropropane	11.165	76	244911	49.255	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	665707	244.474	ug/l	97
59) 2-Hexanone	11.200	43	715095	242.131	ug/l	93
60) Dibromochloromethane	11.359	129	153400	51.366	ug/l	99
61) 1,2-Dibromoethane	11.471	107	147800	50.307	ug/l	97
64) Tetrachloroethene	11.106	164	111601	48.675	ug/l	97
65) Chlorobenzene	11.888	112	404797	50.661	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.959	131	132787	51.699	ug/l	99
67) Ethyl Benzene	11.965	91	668179	48.548	ug/l	99
68) m/p-Xylenes	12.071	106	526722	99.975	ug/l	99
69) o-Xylene	12.394	106	258839	51.297	ug/l	95
70) Styrene	12.412	104	446437	51.704	ug/l	99
71) Bromoform	12.576	173	104086	54.693	ug/l #	100
73) Isopropylbenzene	12.694	105	621794	49.917	ug/l	99
74) N-amyl acetate	12.506	43	231590	53.204	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.935	83	216753	51.363	ug/l	98
76) 1,2,3-Trichloropropane	12.994	75	182840m	44.986	ug/l	
77) Bromobenzene	12.976	156	154418	54.054	ug/l	97
78) n-propylbenzene	13.035	91	736021	48.621	ug/l	98
79) 2-Chlorotoluene	13.124	91	443618	48.865	ug/l	97
80) 1,3,5-Trimethylbenzene	13.171	105	505593	49.161	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.735	75	91865m	52.029	ug/l	
82) 4-Chlorotoluene	13.218	91	463176	50.423	ug/l	99
83) tert-Butylbenzene	13.435	119	440956	46.840	ug/l	99
84) 1,2,4-Trimethylbenzene	13.476	105	509675	49.422	ug/l	98
85) sec-Butylbenzene	13.612	105	629702	46.060	ug/l	99
86) p-Isopropyltoluene	13.729	119	535293	47.367	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	286869	51.039	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	290947	50.774	ug/l	100
89) n-Butylbenzene	14.053	91	485793	44.380	ug/l	99
90) Hexachloroethane	14.329	117	92000	48.027	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	274399	50.816	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.718	75	47339	46.906	ug/l	93
93) 1,2,4-Trichlorobenzene	15.388	180	156993	45.529	ug/l	99
94) Hexachlorobutadiene	15.500	225	48622	37.848	ug/l	95
95) Naphthalene	15.635	128	625189	48.711	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	146962	42.897	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086913.D
Acq On : 10 Jun 2025 09:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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

Quant Time: Jun 11 01:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086913.D
Acq On : 10 Jun 2025 09:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 11 01:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :

MSVOA_N

ClientSampleId :

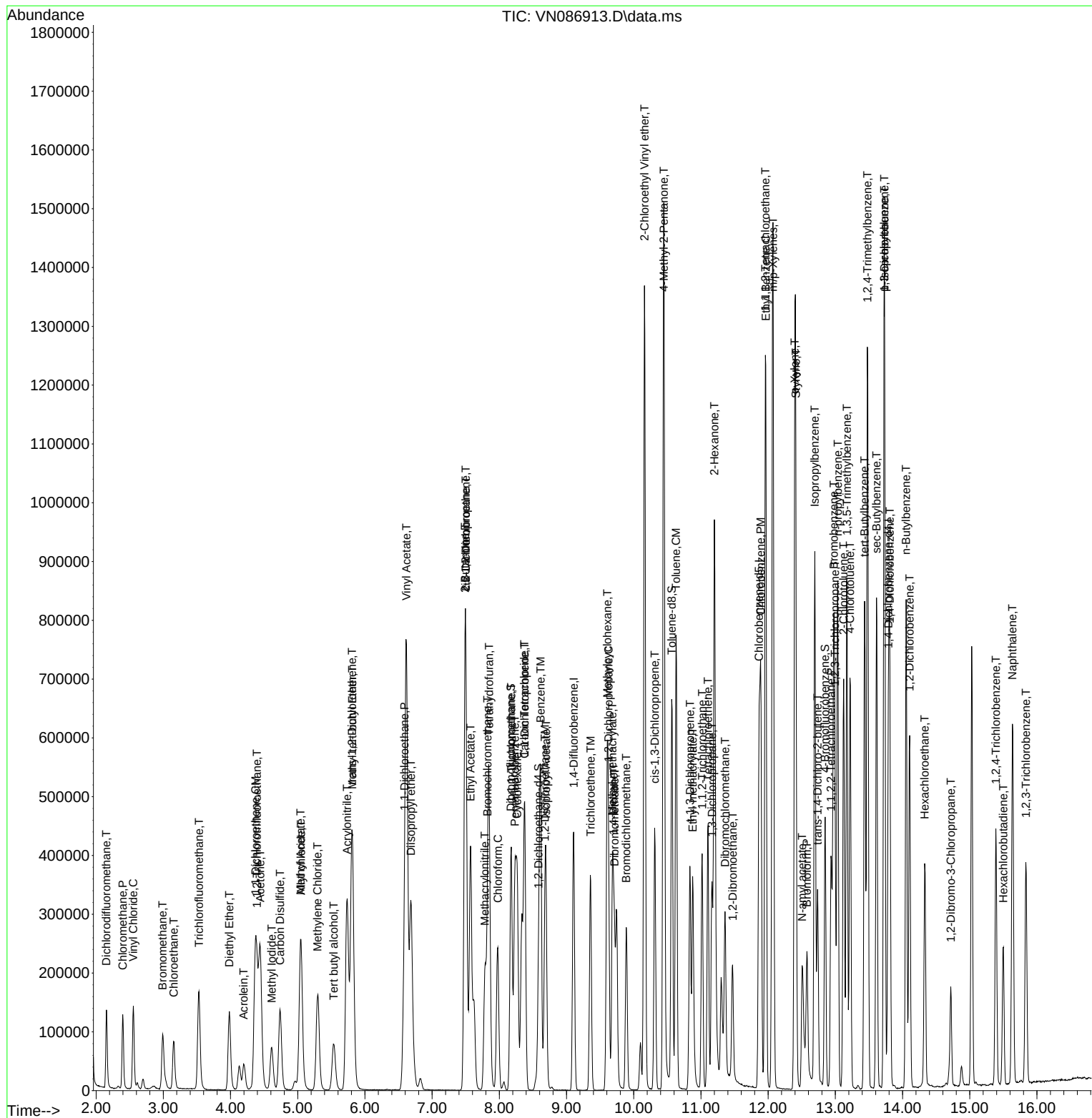
VSTDCCC050

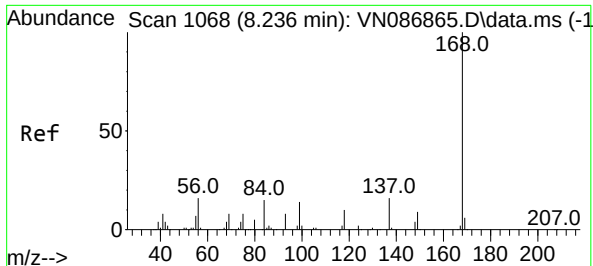
Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

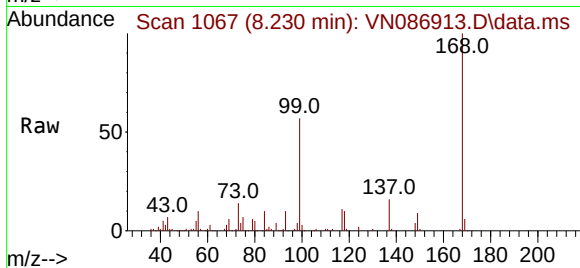
Supervised By :Mahesh Dadoda 06/11/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

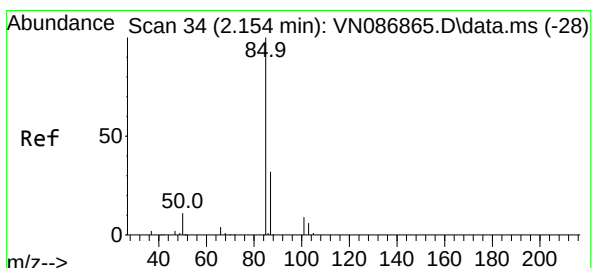
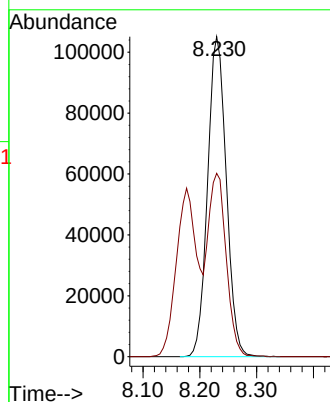
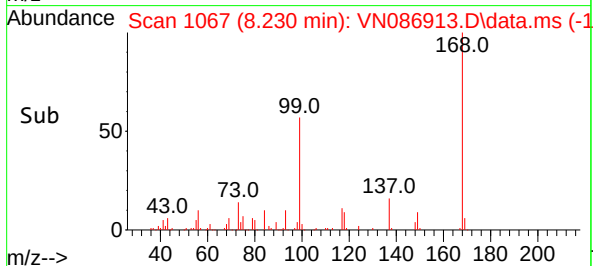
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:168 Resp: 23945
Ion Ratio Lower Upper
168 100
99 57.3 49.1 73.7

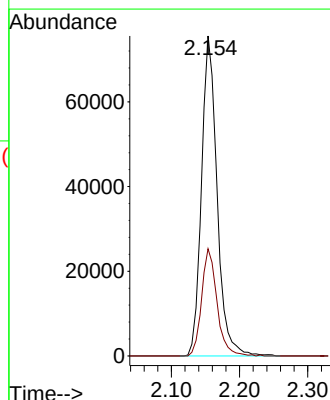
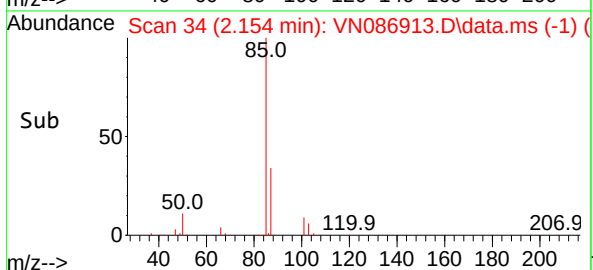
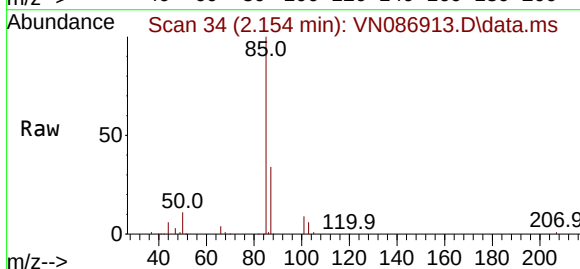
Manual Integrations
APPROVED

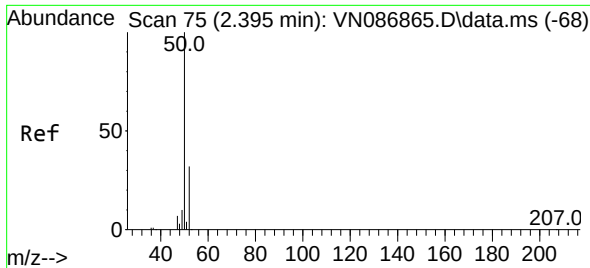
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#2
Dichlorodifluoromethane
Concen: 50.345 ug/l
RT: 2.154 min Scan# 34
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

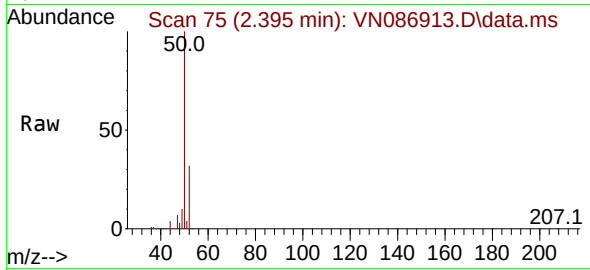
Tgt Ion: 85 Resp: 120199
Ion Ratio Lower Upper
85 100
87 33.5 16.2 48.6





#3
Chloromethane
Concen: 42.845 ug/l
RT: 2.395 min Scan# 75
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

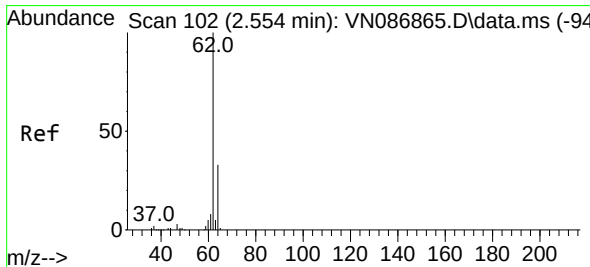
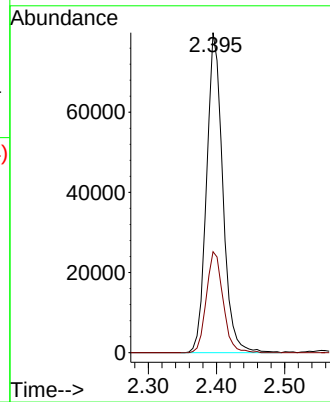
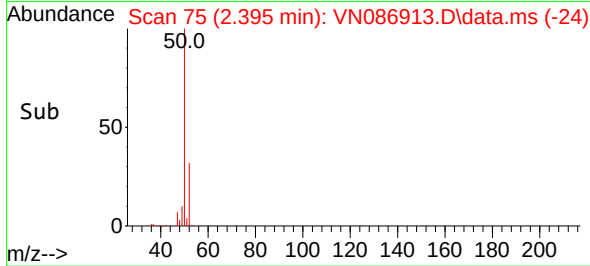
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



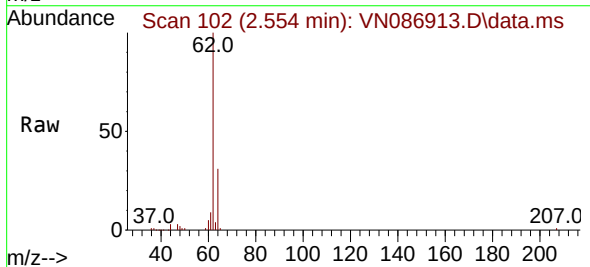
Tgt Ion: 50 Resp: 13209
Ion Ratio Lower Upper
50 100
52 31.6 25.7 38.5

Manual Integrations
APPROVED

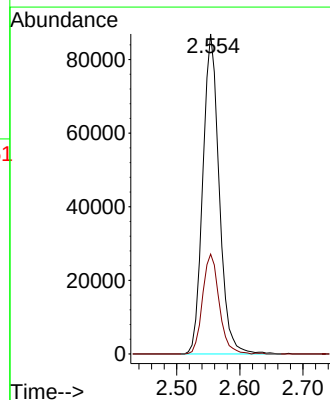
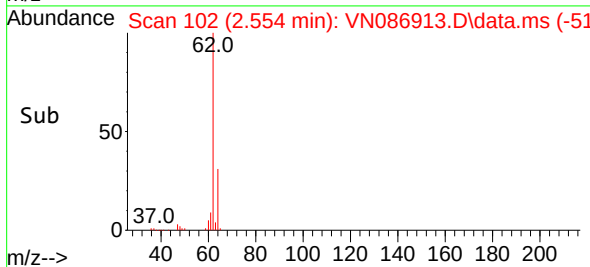
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

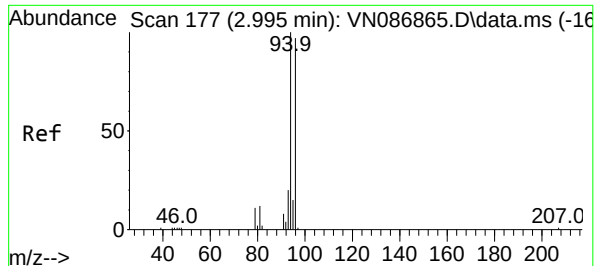


#4
Vinyl Chloride
Concen: 49.190 ug/l
RT: 2.554 min Scan# 102
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13



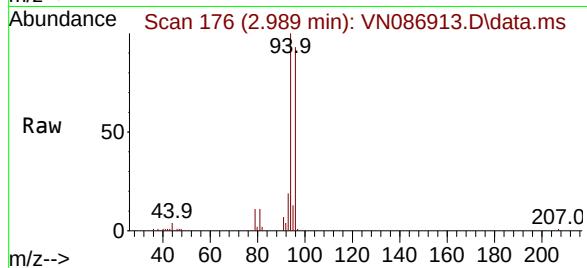
Tgt Ion: 62 Resp: 156438
Ion Ratio Lower Upper
62 100
64 31.2 26.0 39.0





#5
Bromomethane
Concen: 48.104 ug/l
RT: 2.989 min Scan# 177
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

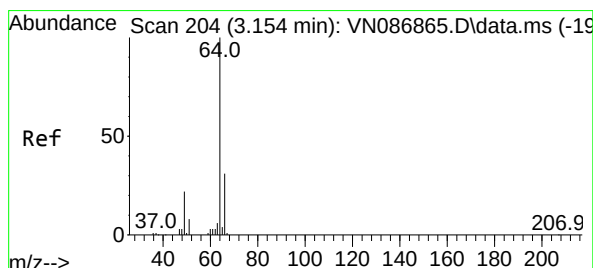
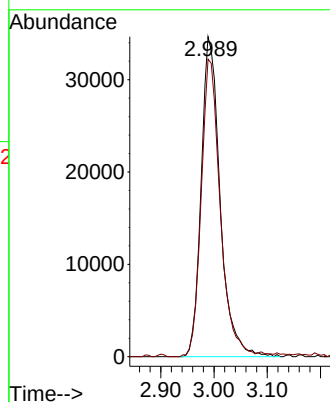
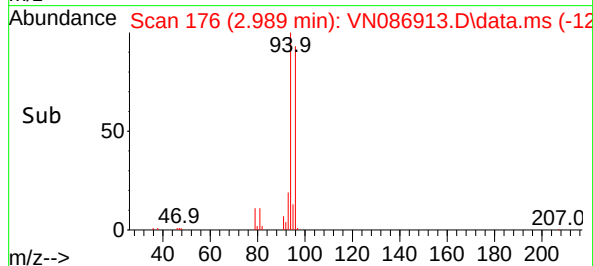
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 94 Resp: 8561
Ion Ratio Lower Upper
94 100
96 93.0 77.9 116.9

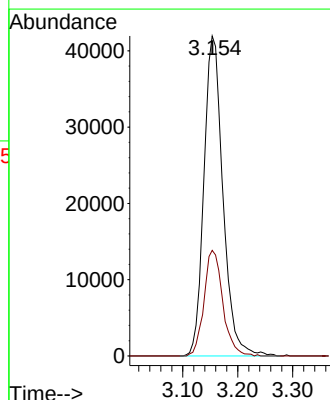
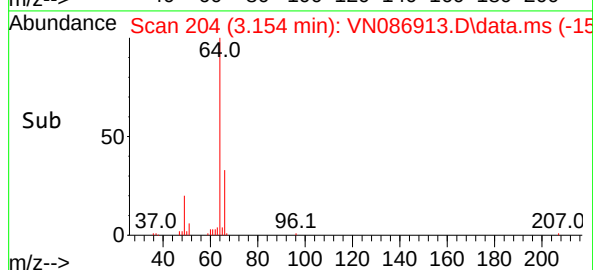
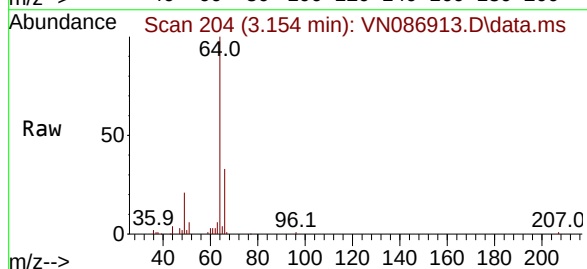
Manual Integrations
APPROVED

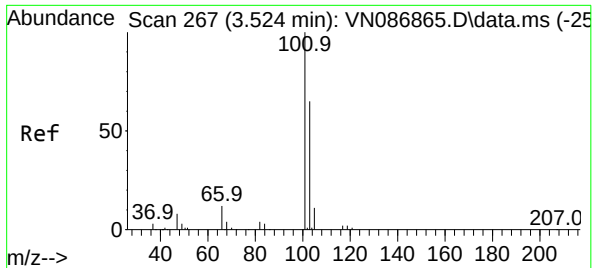
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#6
Chloroethane
Concen: 49.111 ug/l
RT: 3.154 min Scan# 204
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Tgt Ion: 64 Resp: 100888
Ion Ratio Lower Upper
64 100
66 33.0 24.6 36.8





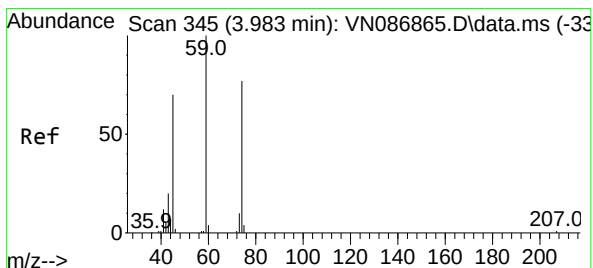
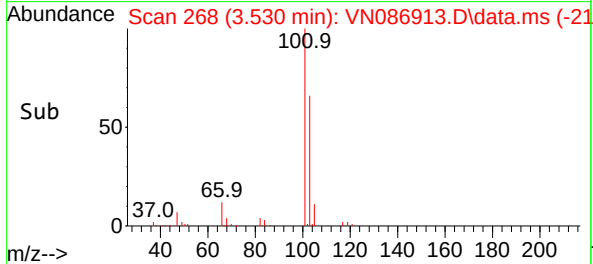
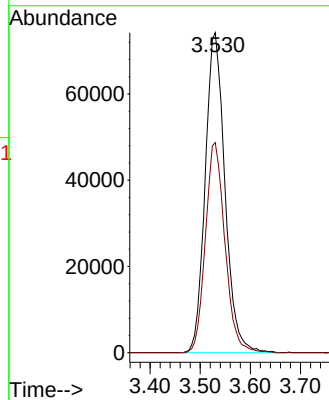
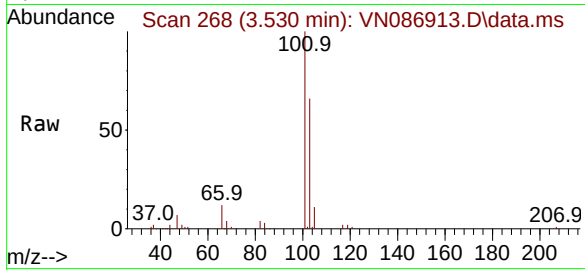
#7
Trichlorofluoromethane
Concen: 48.882 ug/l
RT: 3.530 min Scan# 267
Delta R.T. 0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 20311
Ion Ratio Lower Upper
101 100
103 65.6 52.2 78.2

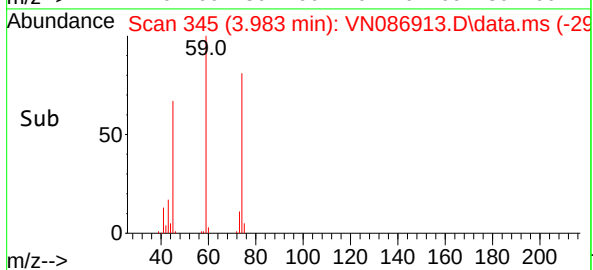
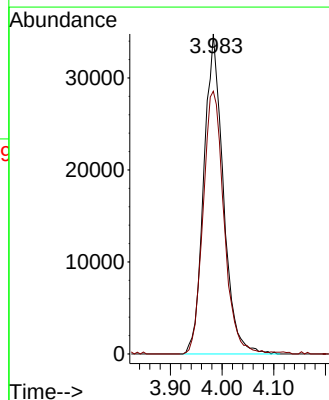
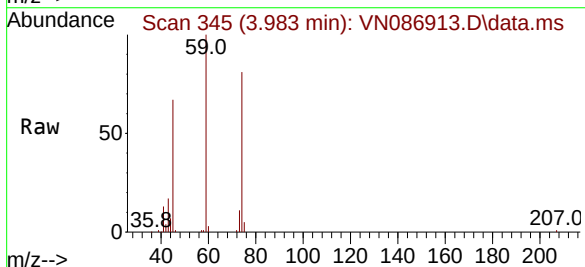
Manual Integrations
APPROVED

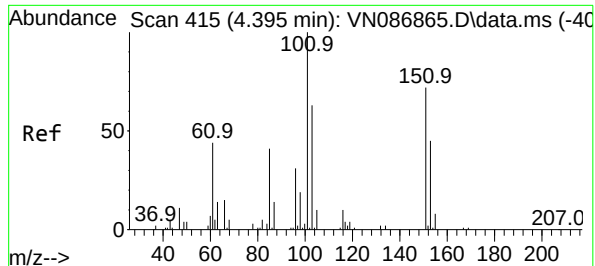
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#8
Diethyl Ether
Concen: 50.181 ug/l
RT: 3.983 min Scan# 345
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Tgt Ion: 74 Resp: 90847
Ion Ratio Lower Upper
74 100
45 88.0 45.5 136.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 48.583 ug/l

RT: 4.395 min Scan# 415

Delta R.T. -0.000 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:101 Resp: 126828

Ion Ratio Lower Upper

101 100

85 41.5 33.8 50.8

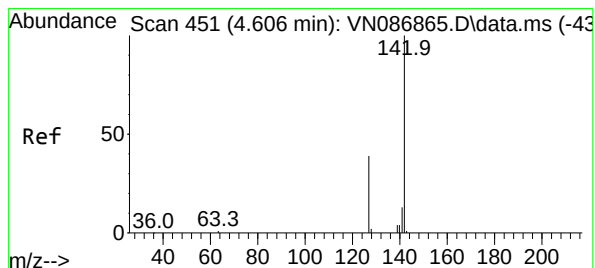
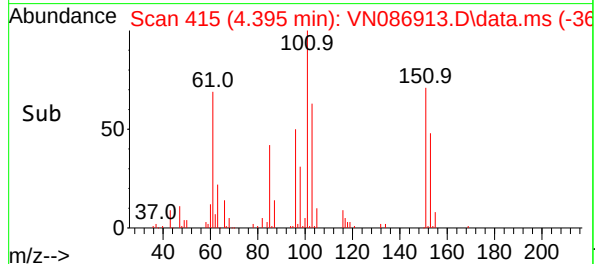
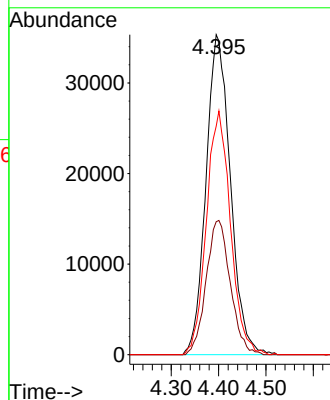
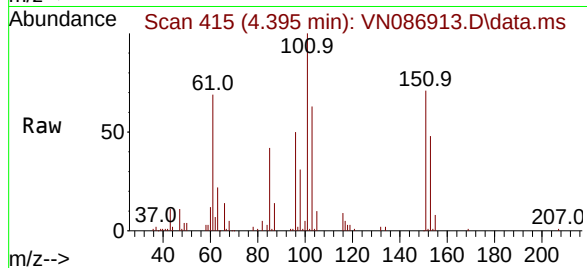
151 75.0 58.7 88.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#10

Methyl Iodide

Concen: 42.239 ug/l

RT: 4.612 min Scan# 452

Delta R.T. 0.006 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

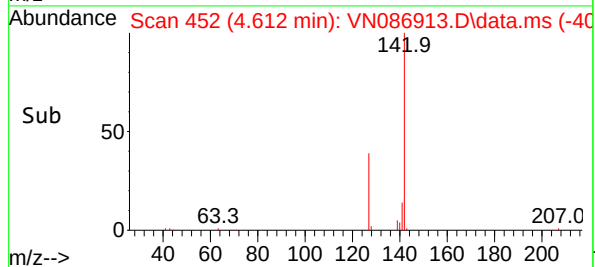
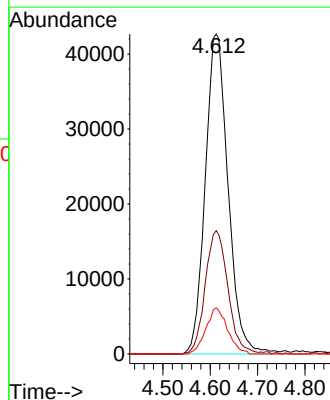
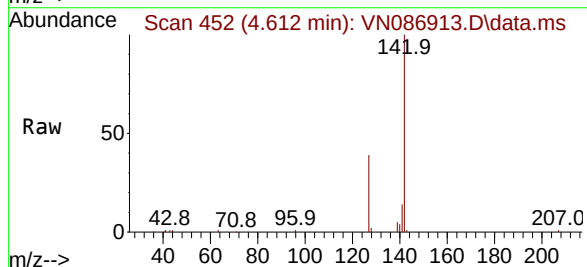
Tgt Ion:142 Resp: 142941

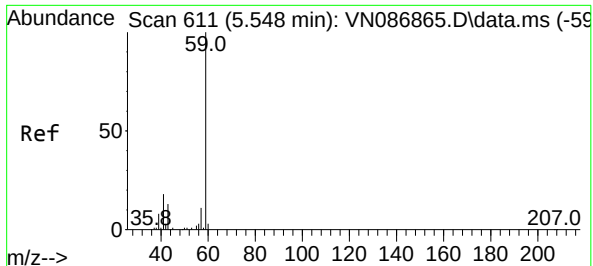
Ion Ratio Lower Upper

142 100

127 38.6 30.9 46.3

141 14.4 10.4 15.6





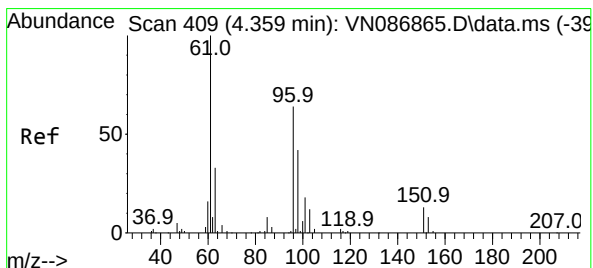
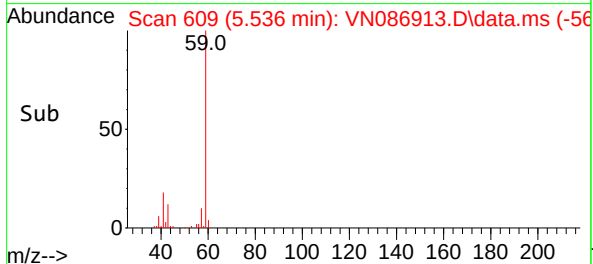
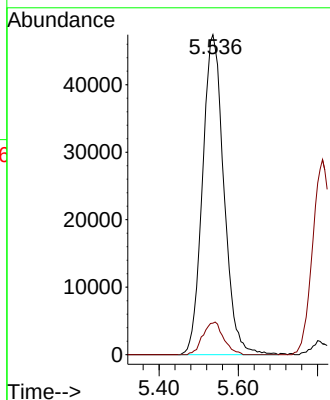
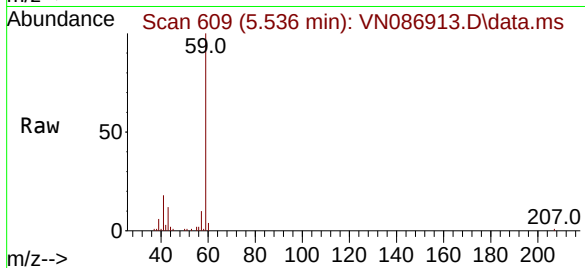
#11
Tert butyl alcohol
Concen: 203.929 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 59 Resp: 17740
Ion Ratio Lower Upper
59 100
57 9.9 8.1 12.1

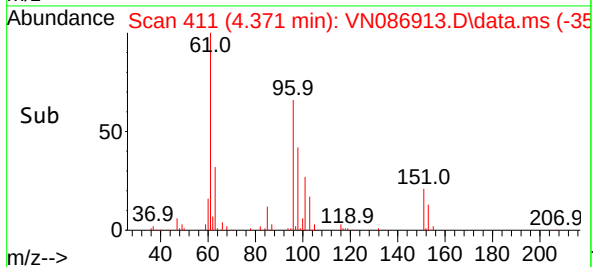
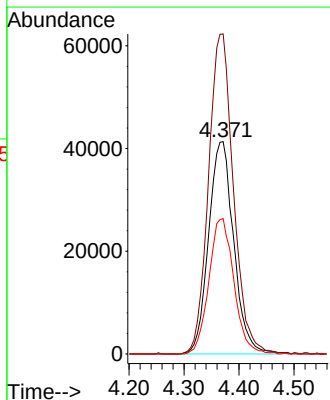
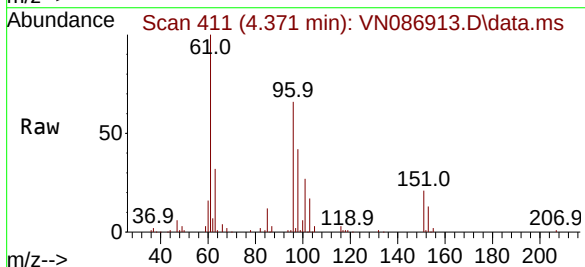
Manual Integrations
APPROVED

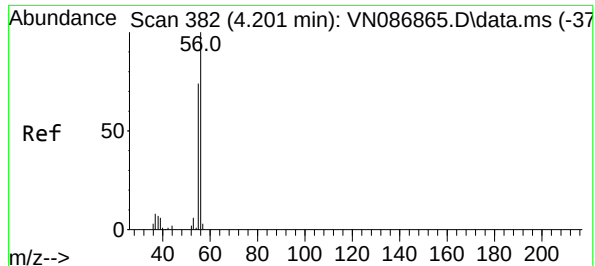
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#12
1,1-Dichloroethene
Concen: 49.200 ug/l
RT: 4.371 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Tgt Ion: 96 Resp: 131127
Ion Ratio Lower Upper
96 100
61 150.8 125.8 188.6
98 63.8 52.5 78.7





#13

Acrolein

Concen: 229.021 ug/l

RT: 4.195 min Scan# 381

Delta R.T. -0.006 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 6306

Ion Ratio Lower Upper

56 100

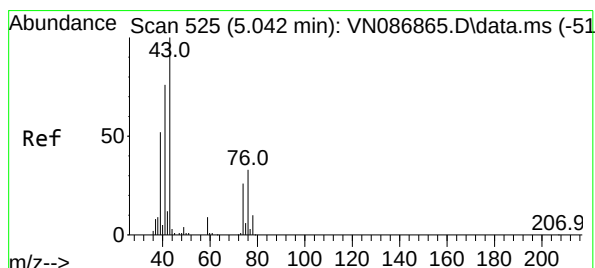
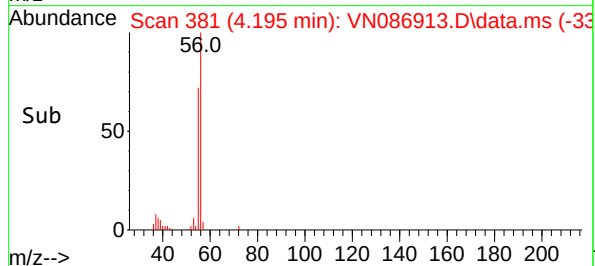
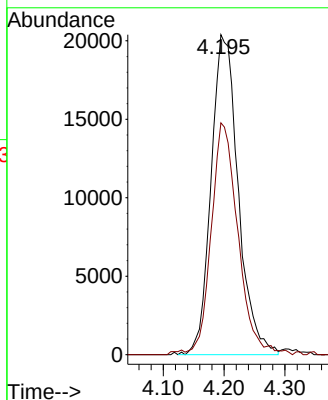
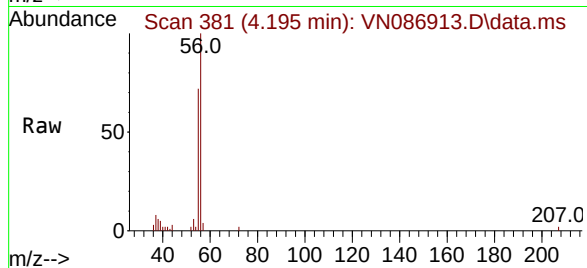
55 71.2 55.6 83.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#14

Allyl chloride

Concen: 44.573 ug/l

RT: 5.048 min Scan# 526

Delta R.T. 0.006 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

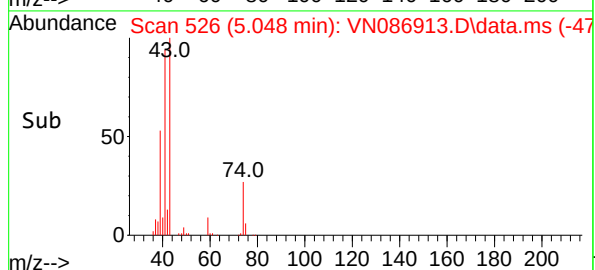
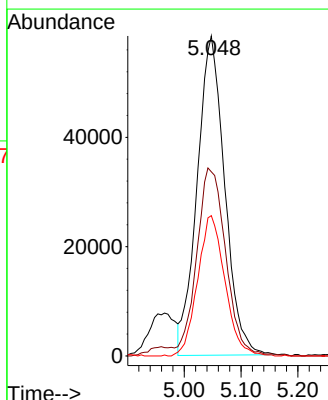
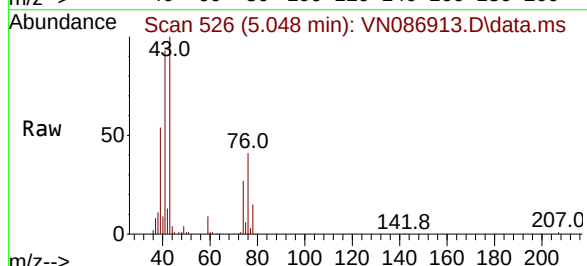
Tgt Ion: 41 Resp: 197016

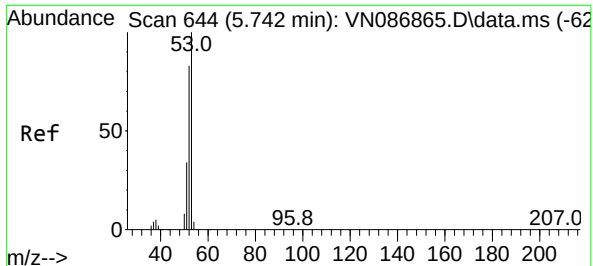
Ion Ratio Lower Upper

41 100

39 62.2 51.3 76.9

76 43.5 31.4 47.0





#15

Acrylonitrile

Concen: 229.750 ug/l

RT: 5.736 min Scan# 644

Delta R.T. -0.006 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 53 Resp: 46715

Ion Ratio Lower Upper

53 100

52 80.7 65.0 97.6

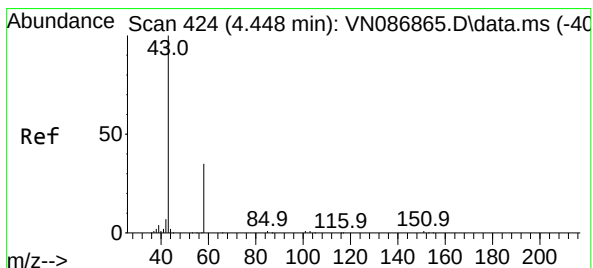
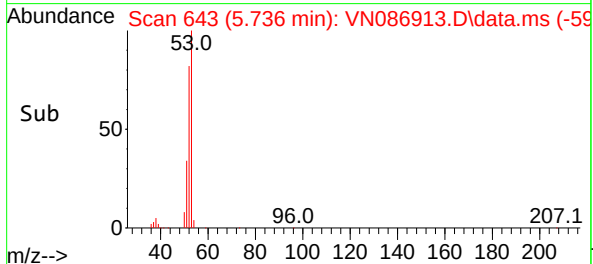
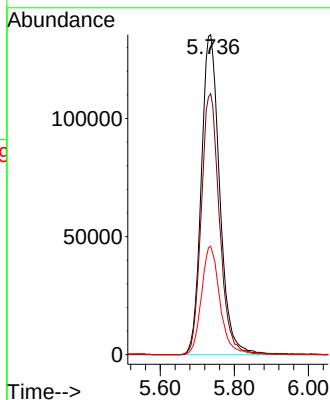
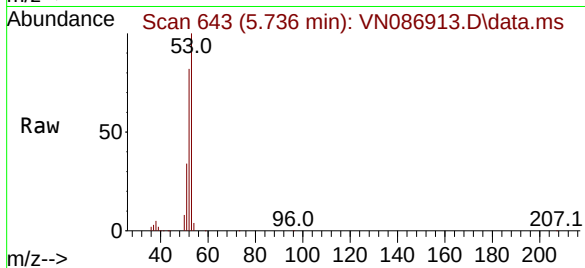
51 34.0 27.2 40.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#16

Acetone

Concen: 245.204 ug/l

RT: 4.442 min Scan# 423

Delta R.T. -0.006 min

Lab File: VN086913.D

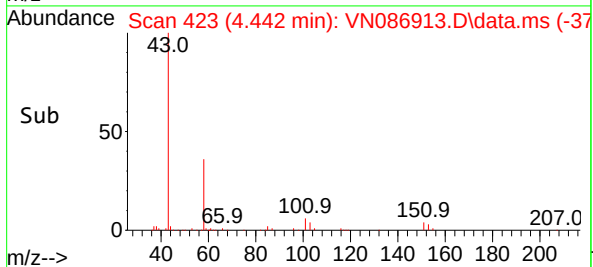
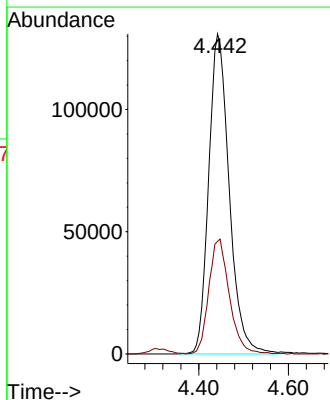
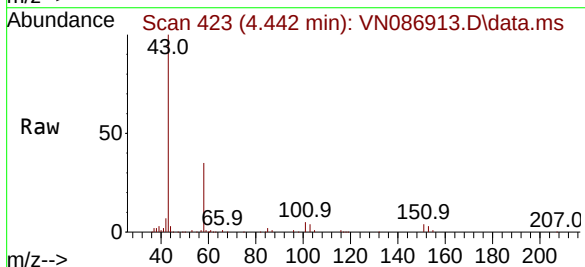
Acq: 10 Jun 2025 09:13

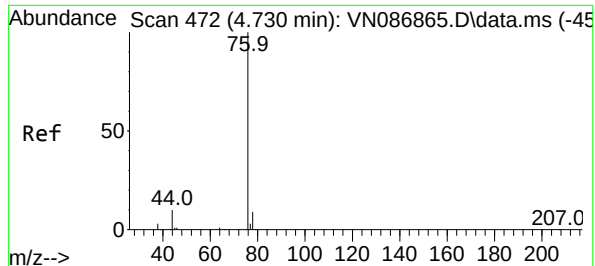
Tgt Ion: 43 Resp: 416888

Ion Ratio Lower Upper

43 100

58 35.0 28.0 42.0





#17

Carbon Disulfide

Concen: 46.386 ug/l

RT: 4.736 min Scan# 472

Delta R.T. 0.006 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 341962

Ion Ratio Lower Upper

76 100

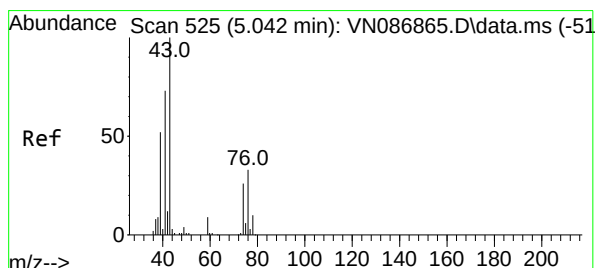
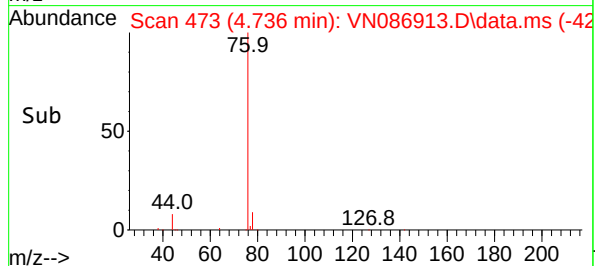
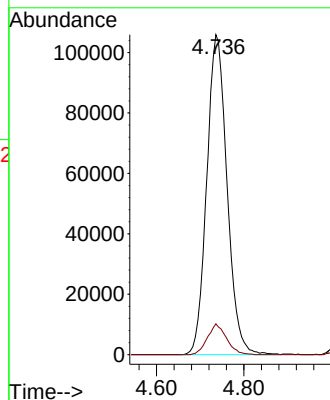
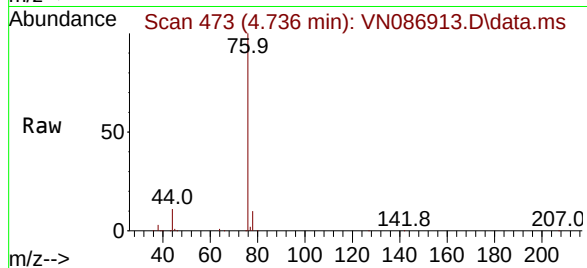
78 9.6 7.3 10.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#18

Methyl Acetate

Concen: 45.497 ug/l

RT: 5.042 min Scan# 525

Delta R.T. -0.000 min

Lab File: VN086913.D

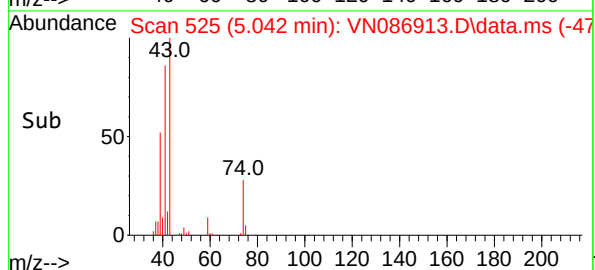
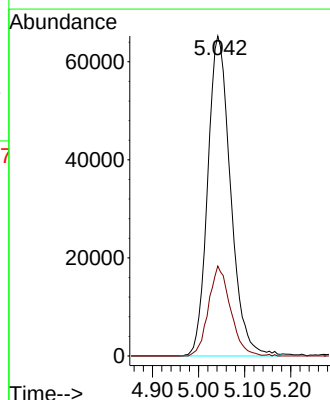
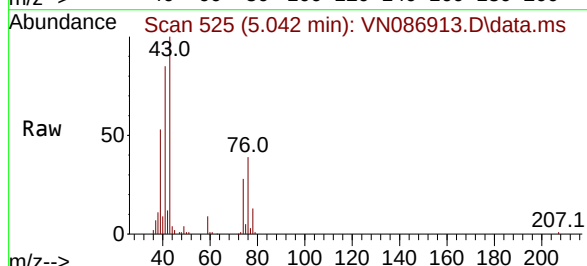
Acq: 10 Jun 2025 09:13

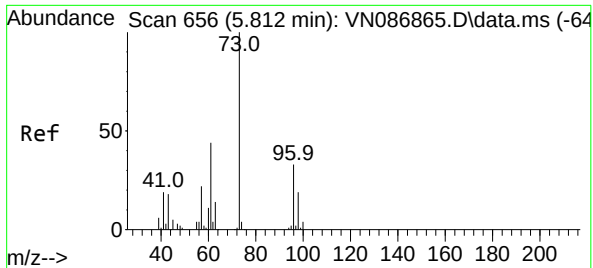
Tgt Ion: 43 Resp: 225420

Ion Ratio Lower Upper

43 100

74 27.0 20.7 31.1





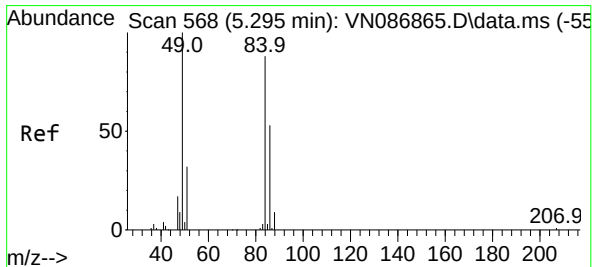
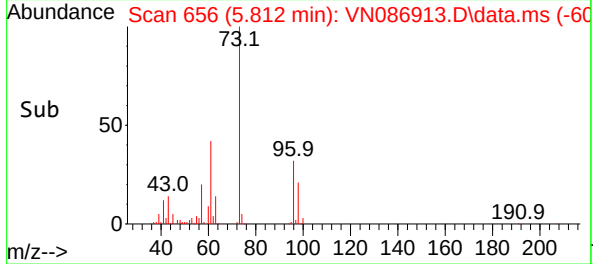
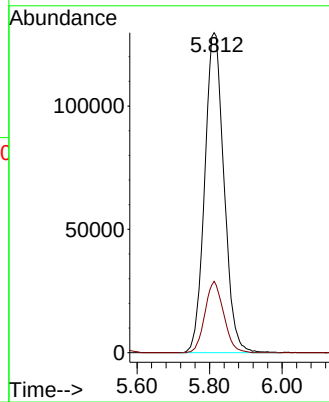
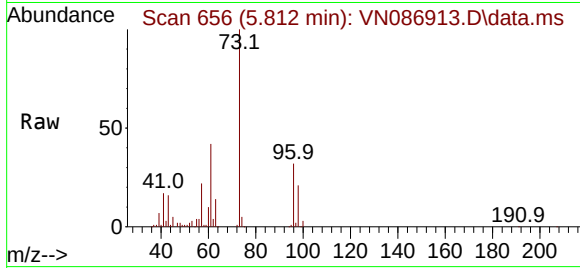
#19
Methyl tert-butyl Ether
Concen: 49.605 ug/l
RT: 5.812 min Scan# 61
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 478684
Ion Ratio Lower Upper
73 100
57 22.3 17.4 26.2

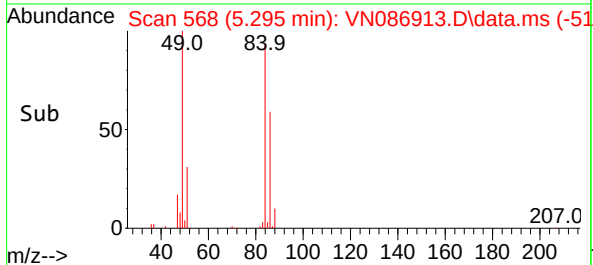
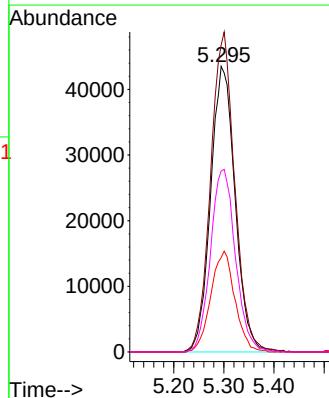
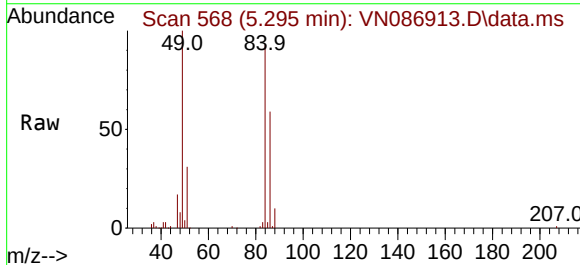
Manual Integrations
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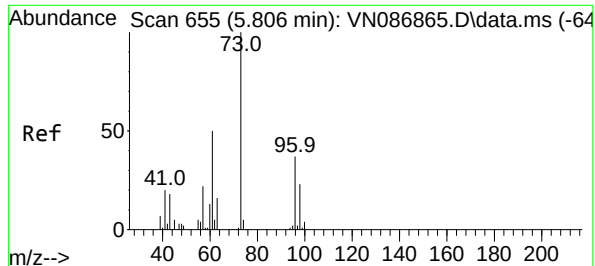
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#20
Methylene Chloride
Concen: 46.410 ug/l
RT: 5.295 min Scan# 568
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Tgt Ion: 84 Resp: 147723
Ion Ratio Lower Upper
84 100
49 107.5 90.5 135.7
51 33.1 28.5 42.7
86 63.4 48.1 72.1





#21

trans-1,2-Dichloroethene

Concen: 47.370 ug/l

RT: 5.806 min Scan# 61

Delta R.T. 0.000 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 140464

Ion Ratio Lower Upper

96 100

61 133.3 109.2 163.8

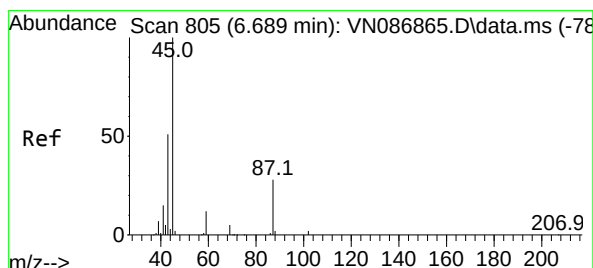
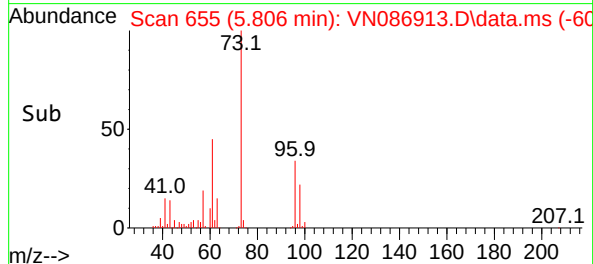
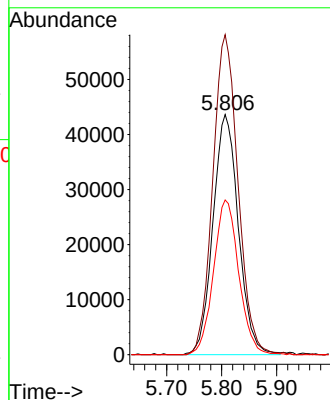
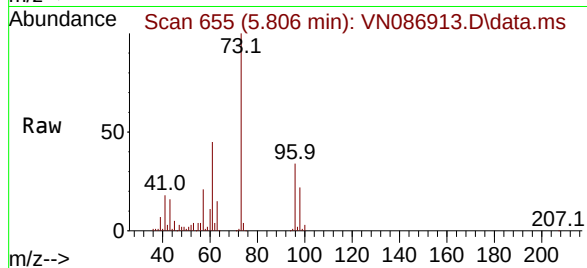
98 64.4 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#22

Diisopropyl ether

Concen: 47.178 ug/l

RT: 6.683 min Scan# 804

Delta R.T. -0.006 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

Tgt Ion: 45 Resp: 439557

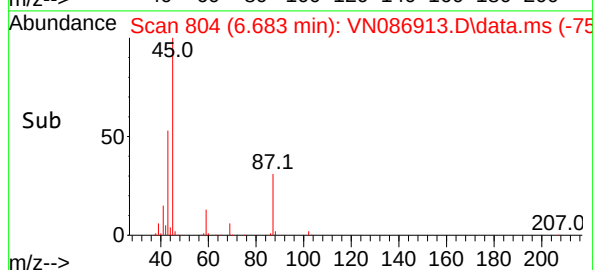
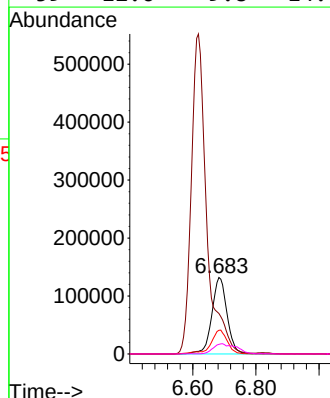
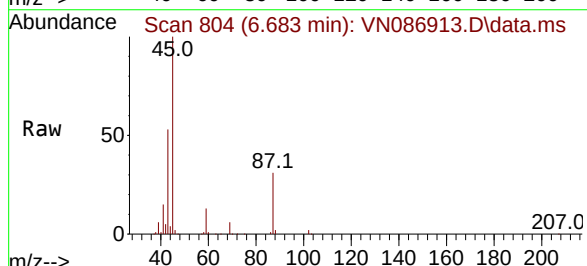
Ion Ratio Lower Upper

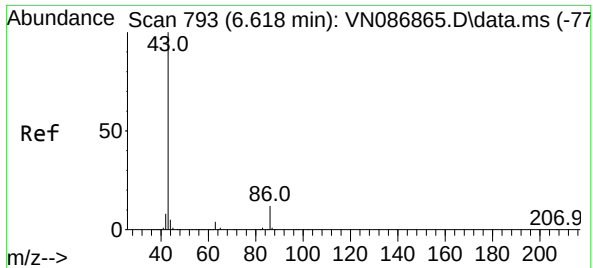
45 100

43 52.7 41.9 62.9

87 30.9 22.4 33.6

59 12.6 9.8 14.6





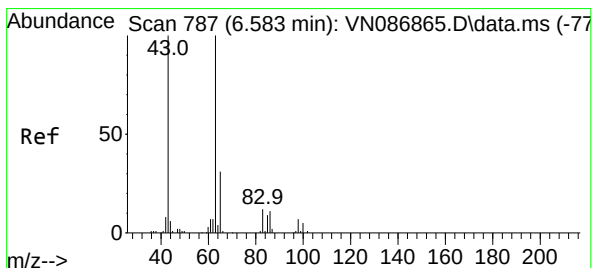
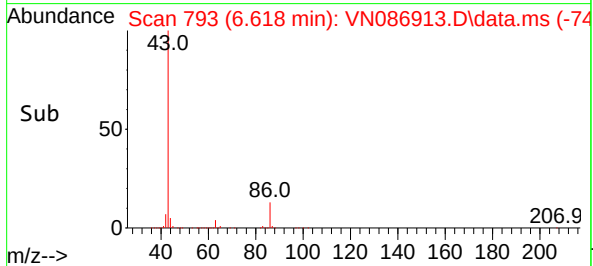
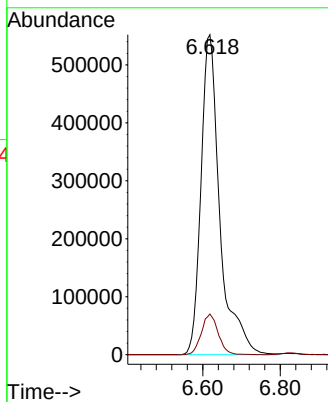
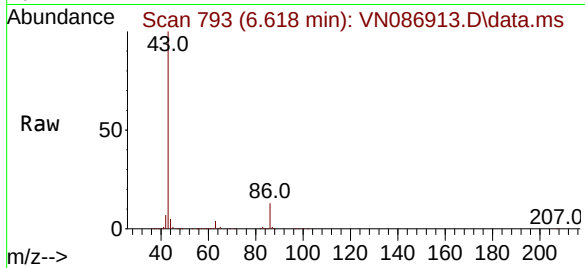
#23
Vinyl Acetate
Concen: 236.925 ug/l
RT: 6.618 min Scan# 793
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 186505
Ion Ratio Lower Upper
43 100
86 12.7 9.5 14.3

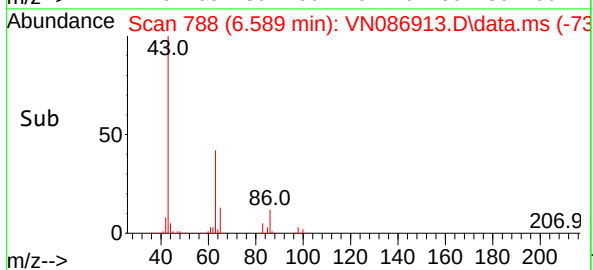
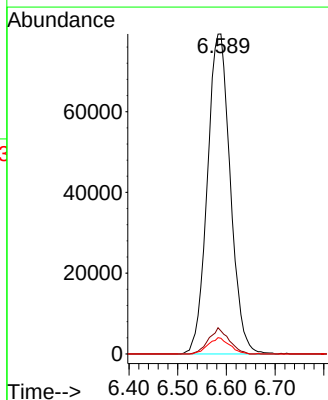
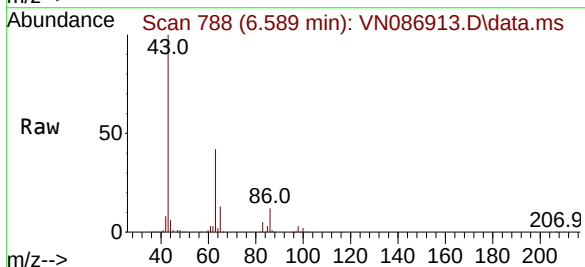
Manual Integrations
APPROVED

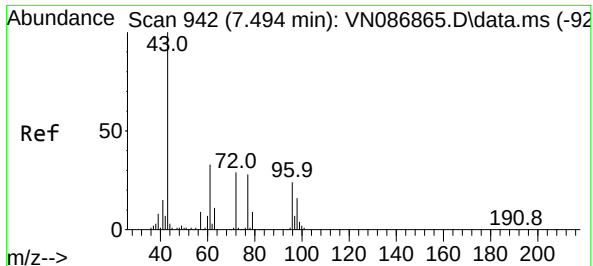
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#24
1,1-Dichloroethane
Concen: 48.190 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Tgt Ion: 63 Resp: 258382
Ion Ratio Lower Upper
63 100
98 7.2 3.6 10.8
100 4.9 2.6 7.8





#25

2-Butanone

Concen: 213.617 ug/l

RT: 7.489 min Scan# 941

Delta R.T. -0.006 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 590344

Ion Ratio Lower Upper

43 100

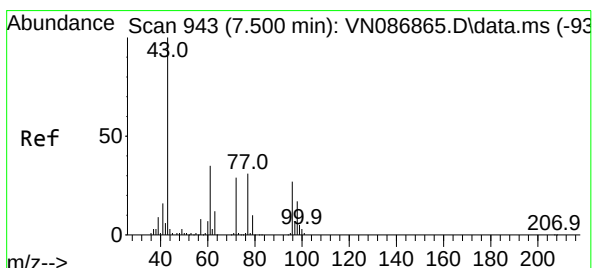
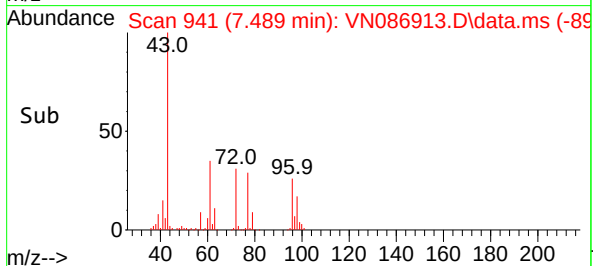
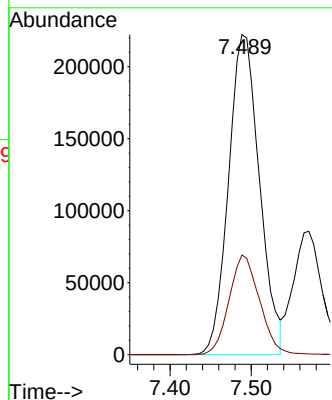
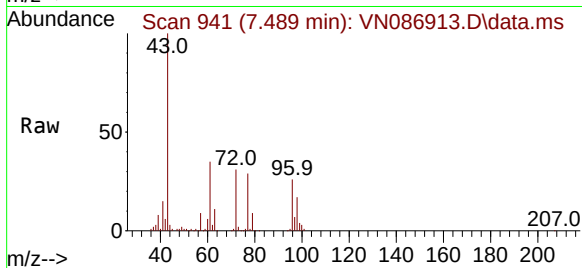
72 31.2 23.0 34.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#26

2,2-Dichloropropane

Concen: 54.150 ug/l

RT: 7.500 min Scan# 943

Delta R.T. 0.000 min

Lab File: VN086913.D

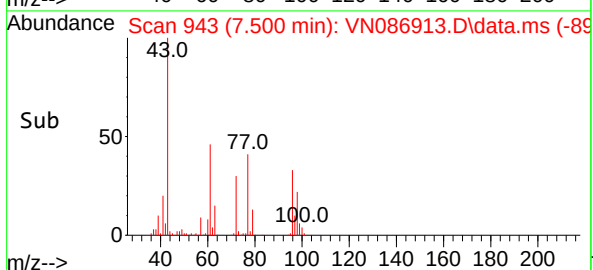
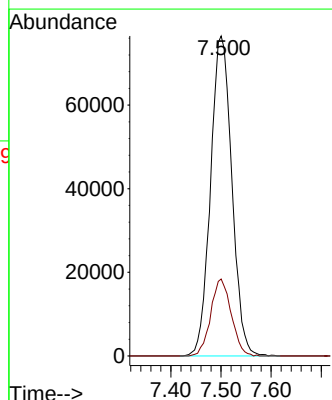
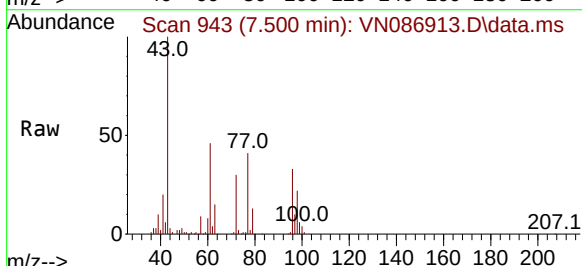
Acq: 10 Jun 2025 09:13

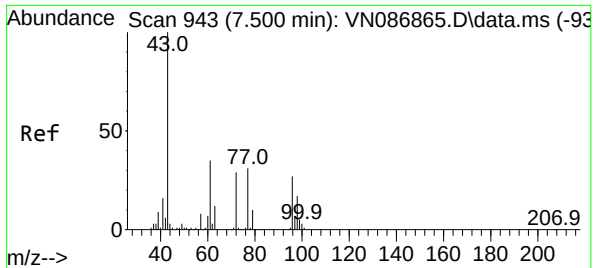
Tgt Ion: 77 Resp: 225847

Ion Ratio Lower Upper

77 100

97 23.2 11.6 34.7





#27

cis-1,2-Dichloroethene

Concen: 48.666 ug/l

RT: 7.500 min Scan# 943

Delta R.T. 0.000 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDC050

Tgt Ion: 96 Resp: 17258

Ion Ratio Lower Upper

96 100

61 137.5 0.0 278.0

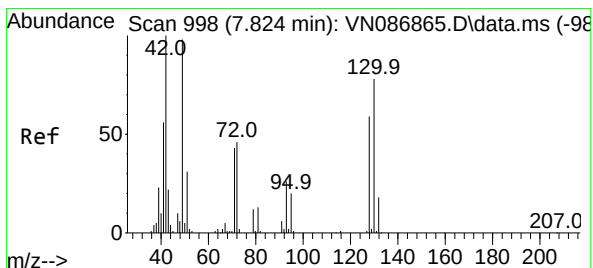
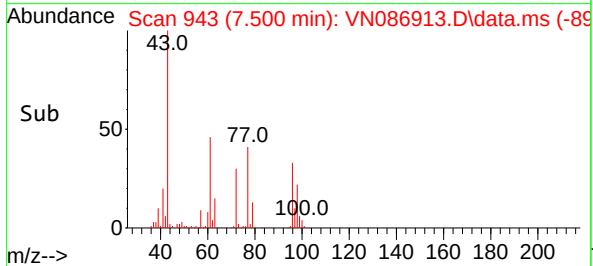
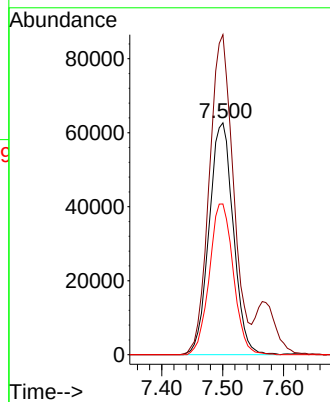
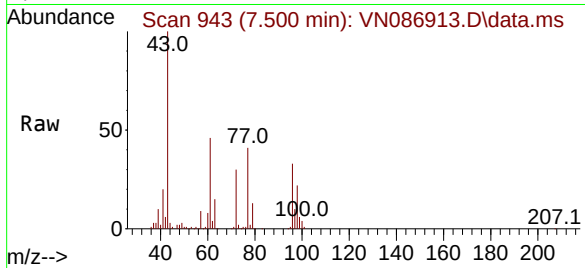
98 64.6 0.0 128.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#28

Bromochloromethane

Concen: 42.951 ug/l

RT: 7.824 min Scan# 998

Delta R.T. 0.000 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

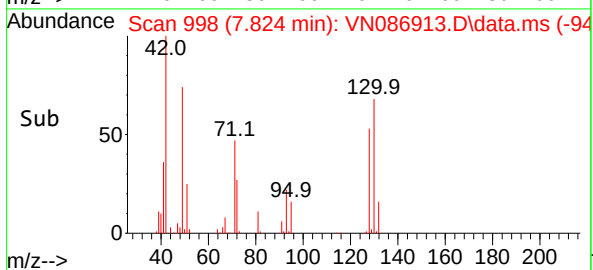
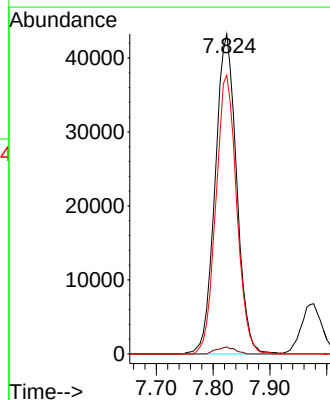
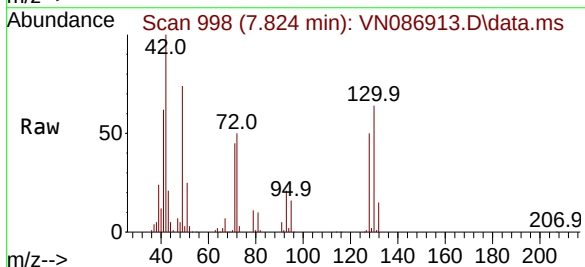
Tgt Ion: 49 Resp: 113231

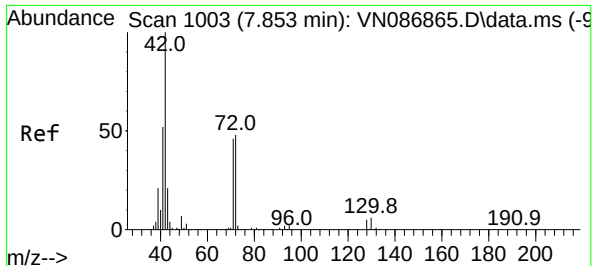
Ion Ratio Lower Upper

49 100

129 1.9 0.0 3.8

130 84.6 62.2 93.2





#29

Tetrahydrofuran

Concen: 216.165 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. -0.006 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

Instrument :

MSVOA_N

ClientSampleId :

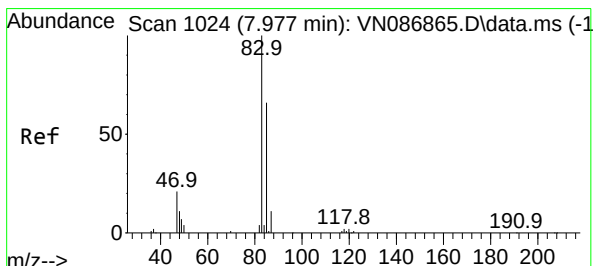
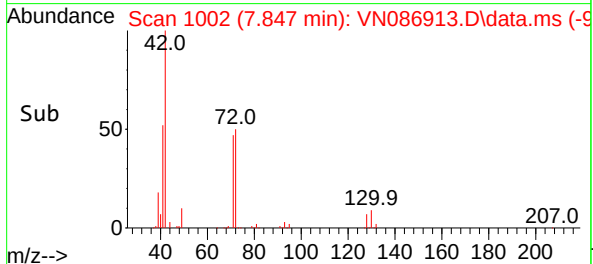
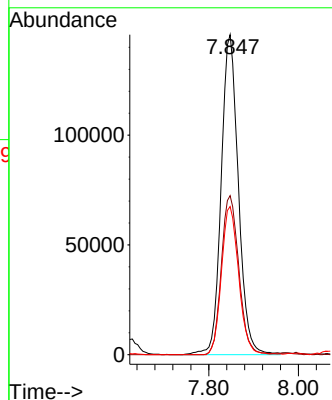
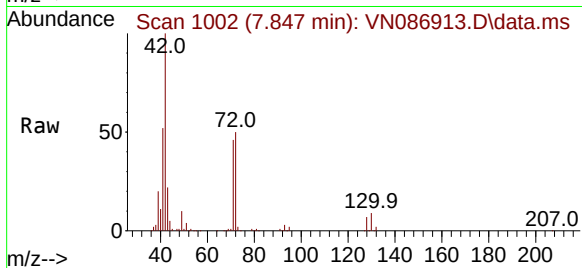
VSTDCCC050

Tgt Ion:	42	Resp:	389154
Ion	Ratio	Lower	Upper
42	100		
72	50.5	37.8	56.6
71	46.5	35.6	53.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#30

Chloroform

Concen: 47.097 ug/l

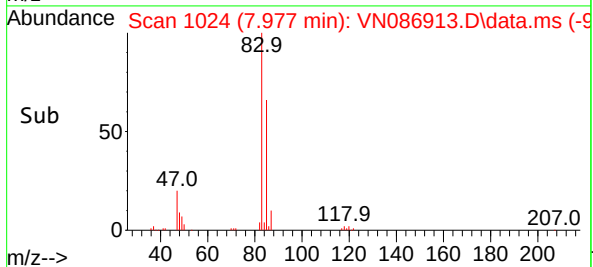
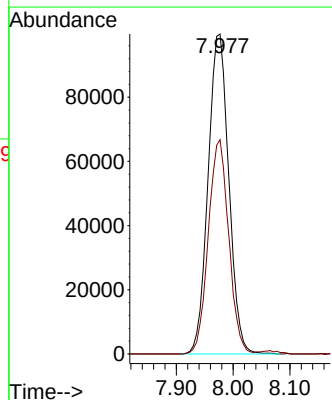
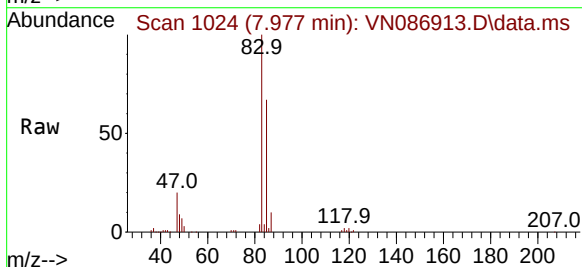
RT: 7.977 min Scan# 1024

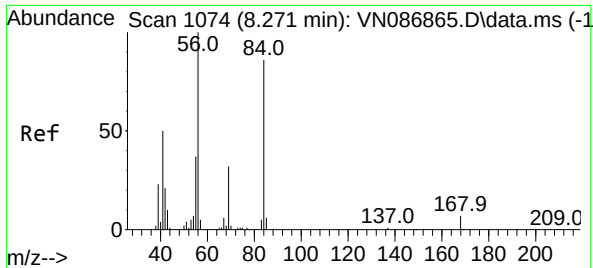
Delta R.T. 0.000 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

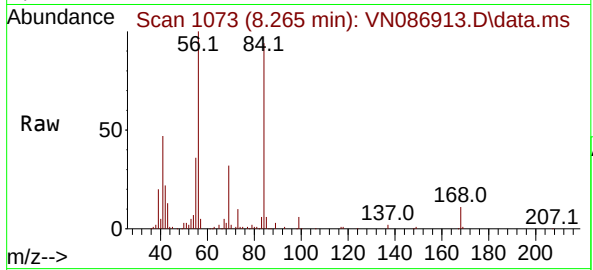
Tgt Ion:	83	Resp:	252183
Ion	Ratio	Lower	Upper
83	100		
85	67.0	52.9	79.3





#31
Cyclohexane
Concen: 41.767 ug/l
RT: 8.265 min Scan# 1073
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

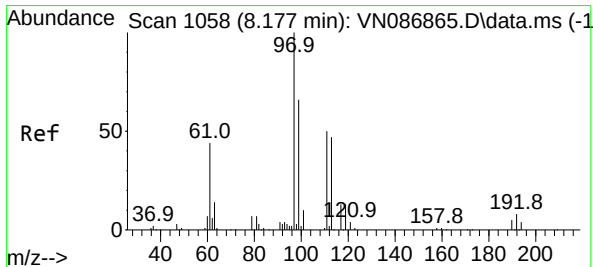
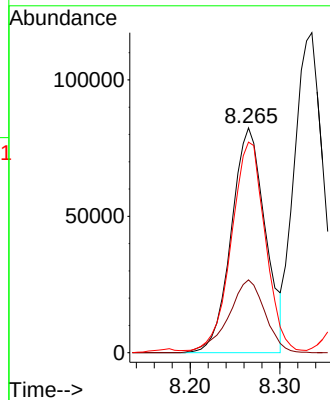
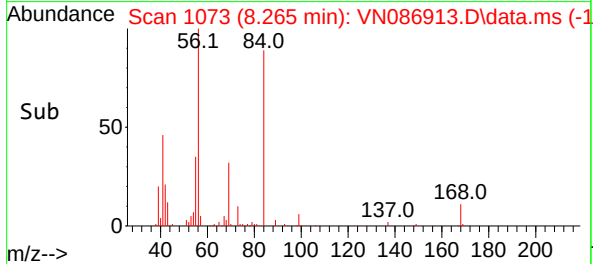
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 56 Resp: 21718
Ion Ratio Lower Upper
56 100
69 32.4 25.4 38.0
84 92.7 68.8 103.2

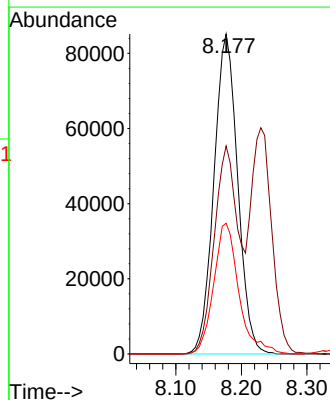
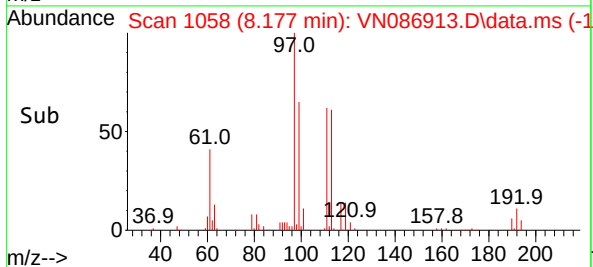
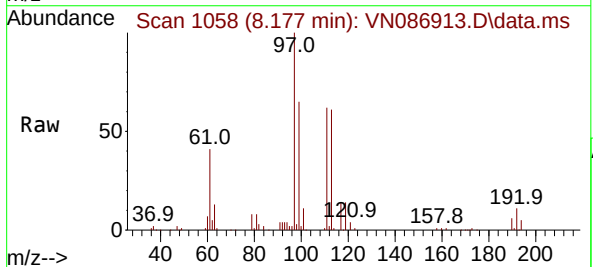
Manual Integrations
APPROVED

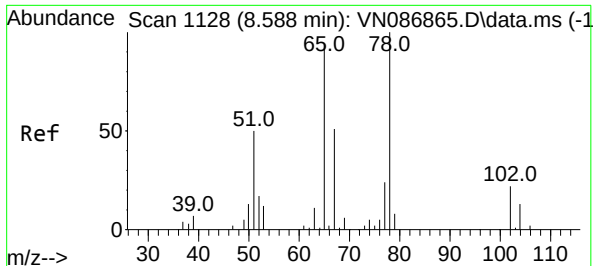
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#32
1,1,1-Trichloroethane
Concen: 47.016 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Tgt Ion: 97 Resp: 214121
Ion Ratio Lower Upper
97 100
99 66.9 52.0 78.0
61 43.4 35.9 53.9





#33

1,2-Dichloroethane-d4

Concen: 45.789 ug/l

RT: 8.583 min Scan# 1128

Delta R.T. -0.006 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 146800

Ion Ratio Lower Upper

65 100

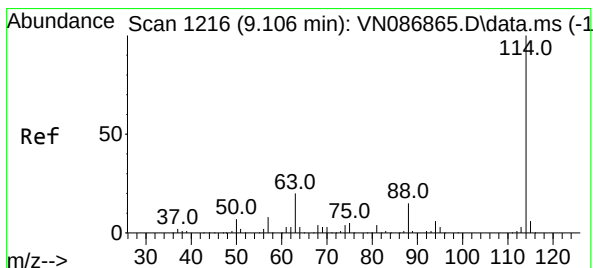
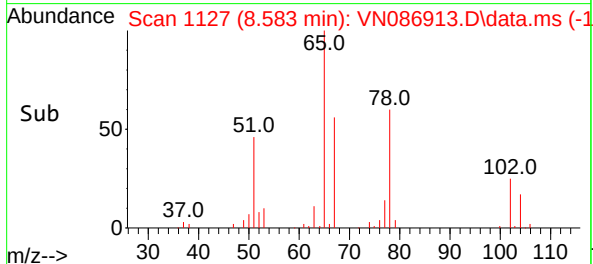
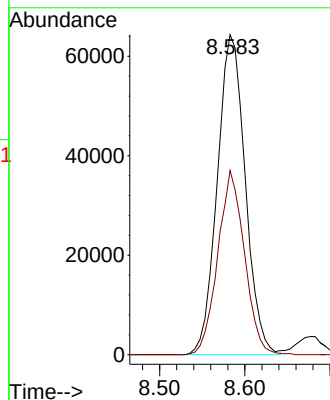
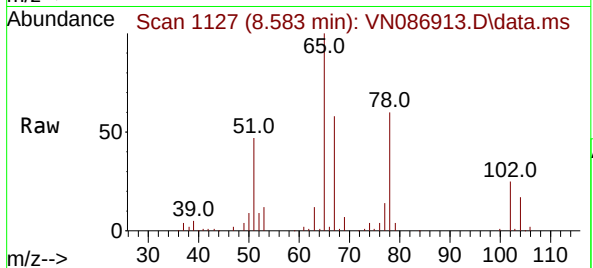
67 54.9 0.0 105.6

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: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

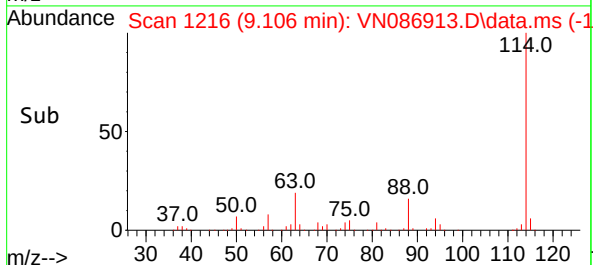
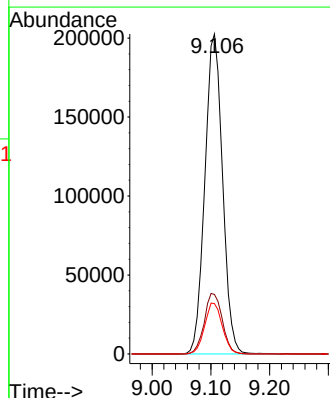
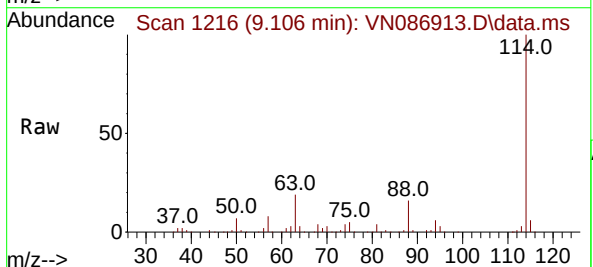
Tgt Ion:114 Resp: 422119

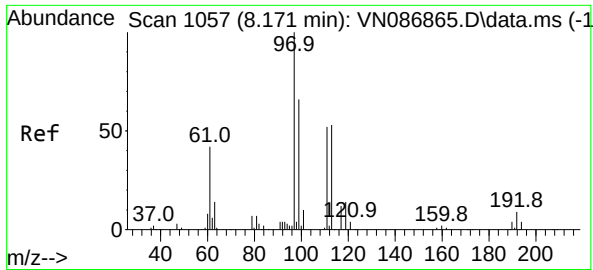
Ion Ratio Lower Upper

114 100

63 18.6 0.0 39.6

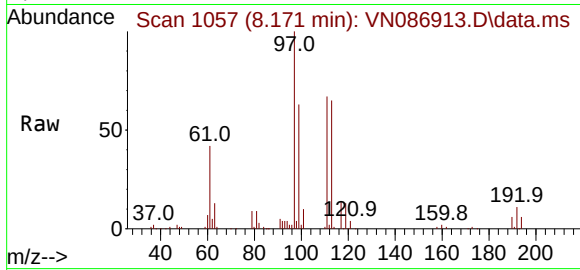
88 15.8 0.0 30.2





#35
Dibromofluoromethane
Concen: 50.869 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

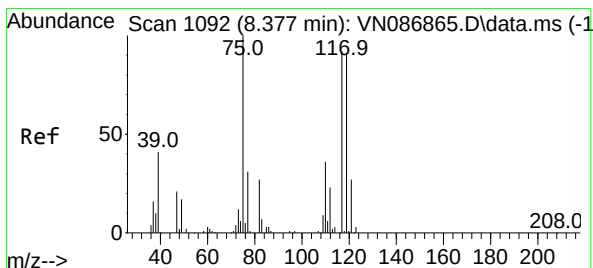
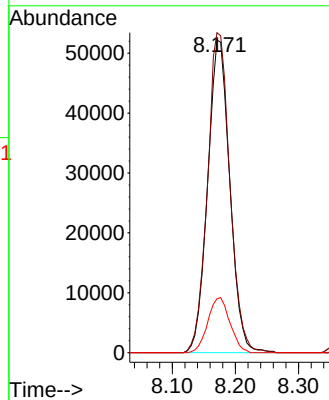
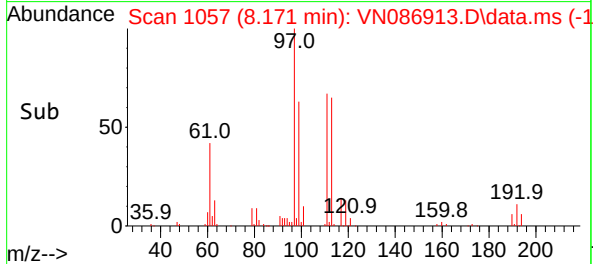
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 113 Resp: 12725
Ion Ratio Lower Upper
113 100
111 103.6 84.2 126.2
192 17.6 14.2 21.4

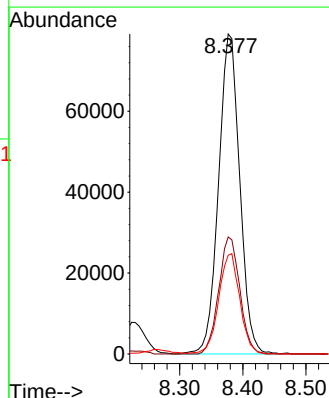
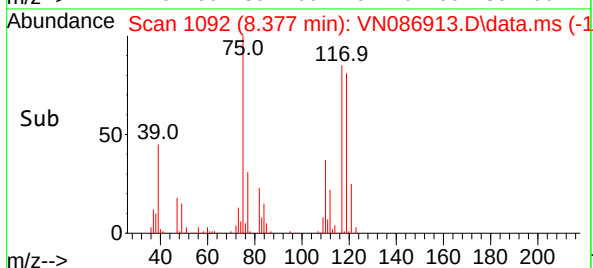
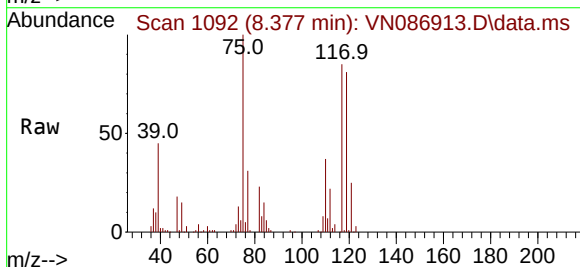
Manual Integrations
APPROVED

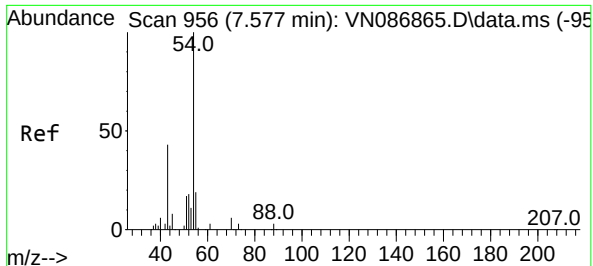
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#36
1,1-Dichloropropene
Concen: 49.463 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Tgt Ion: 75 Resp: 184378
Ion Ratio Lower Upper
75 100
110 36.2 17.6 52.9
77 31.3 25.3 37.9





#37

Ethyl Acetate

Concen: 46.471 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 22051

Ion Ratio Lower Upper

43 100

61 15.0 12.1 18.1

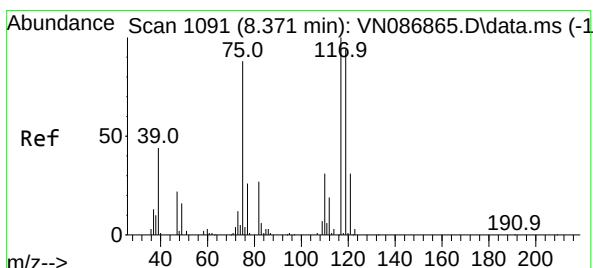
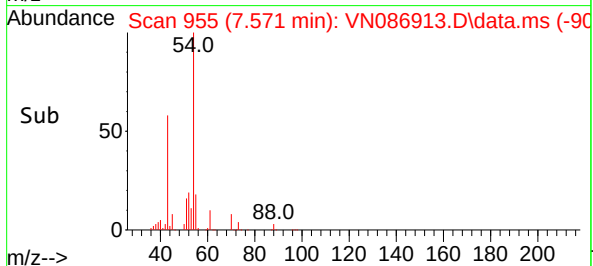
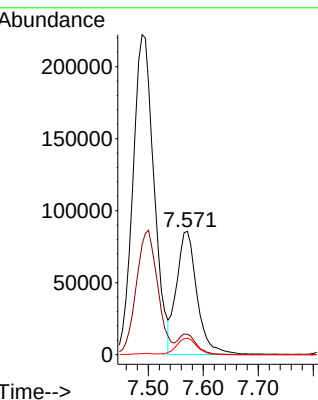
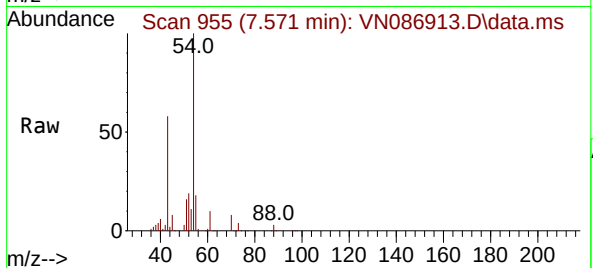
70 13.4 9.8 14.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#38

Carbon Tetrachloride

Concen: 49.466 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. 0.000 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

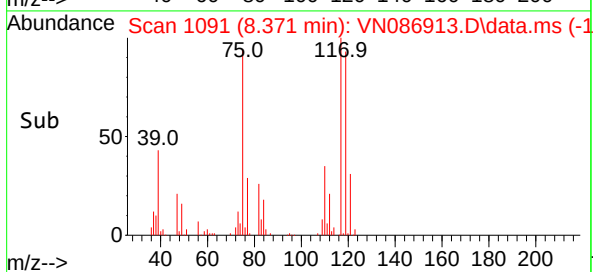
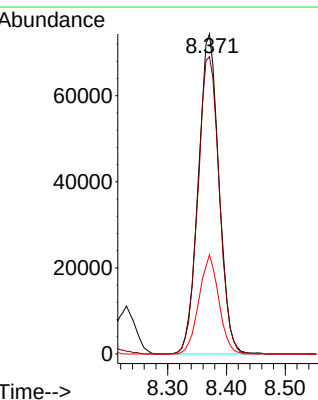
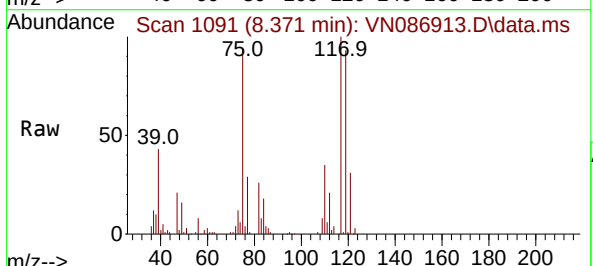
Tgt Ion:117 Resp: 181026

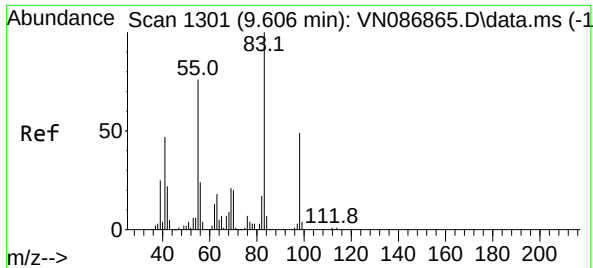
Ion Ratio Lower Upper

117 100

119 92.9 75.0 112.6

121 31.1 24.9 37.3





#39

Methylcyclohexane

Concen: 43.269 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

Instrument :

MSVOA_N

ClientSampleId :

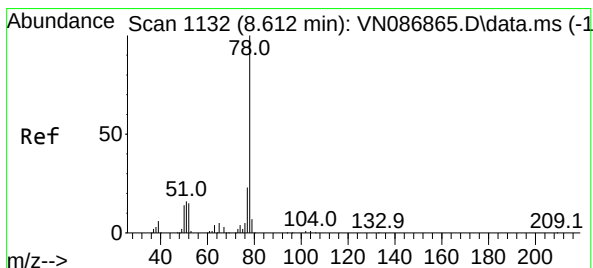
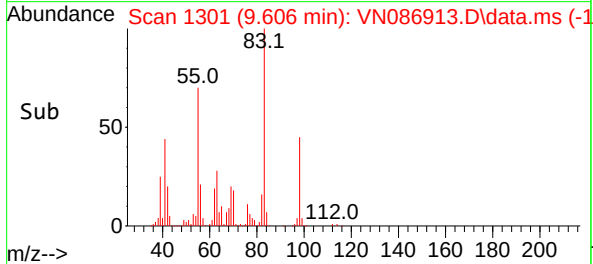
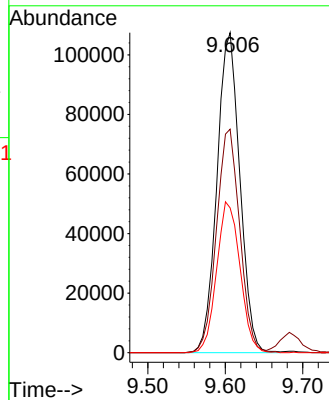
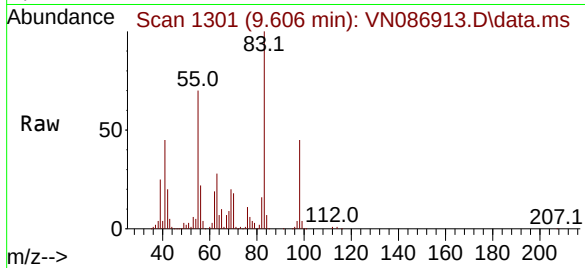
VSTDCCC050

Tgt Ion:	83	Resp:	220974
Ion	Ratio	Lower	Upper
83	100		
55	69.9	61.0	91.6
98	45.2	38.9	58.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#40

Benzene

Concen: 48.493 ug/l

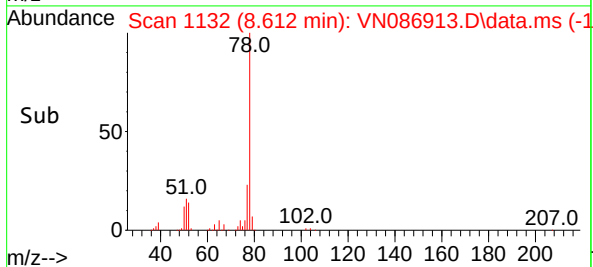
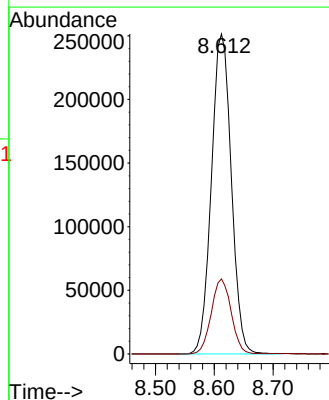
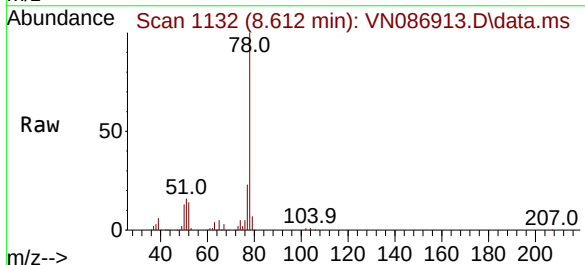
RT: 8.612 min Scan# 1132

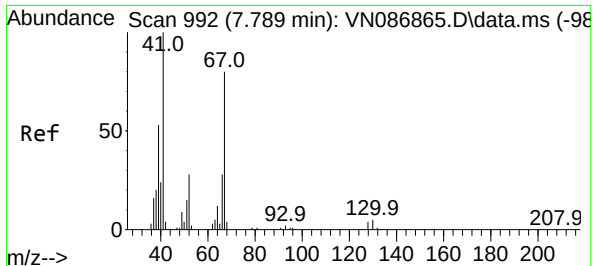
Delta R.T. 0.000 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

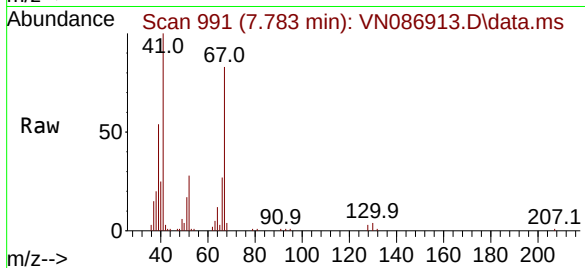
Tgt Ion:	78	Resp:	591102
Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.7	28.1





#41
Methacrylonitrile
Concen: 45.256 ug/l
RT: 7.783 min Scan# 991
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

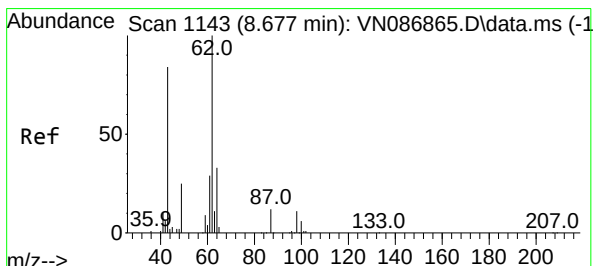
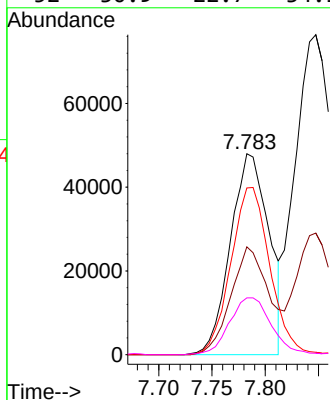
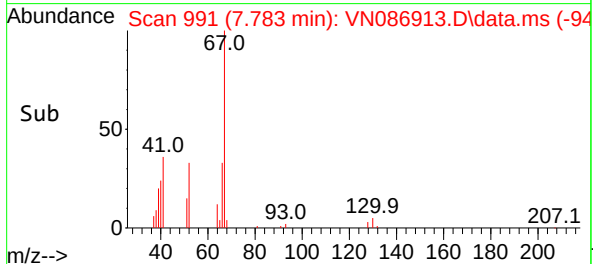
Instrument :
MSVOA_N
ClientSampleId :
VSTDC050



Tgt Ion: 41 Resp: 120609
Ion Ratio Lower Upper
41 100
39 54.3 41.2 61.8
67 84.7 61.4 92.2
52 30.9 22.7 34.1

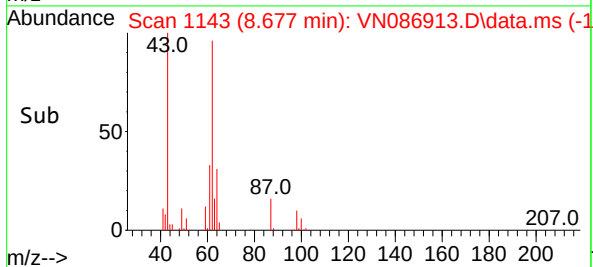
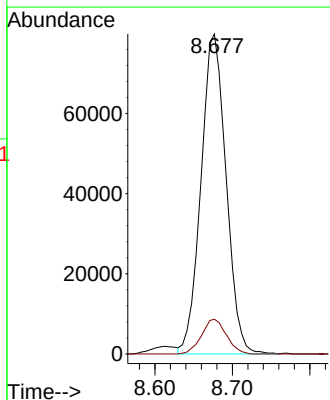
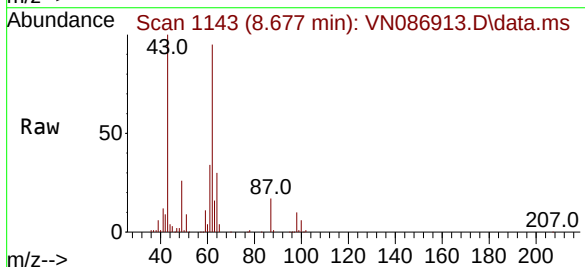
Manual Integrations
APPROVED

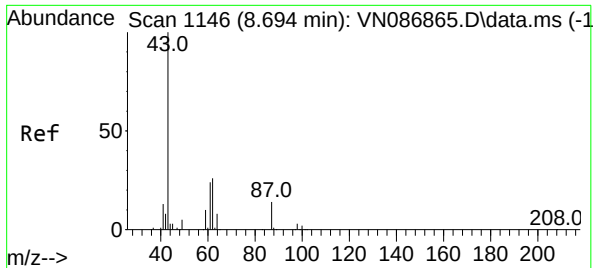
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#42
1,2-Dichloroethane
Concen: 48.671 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

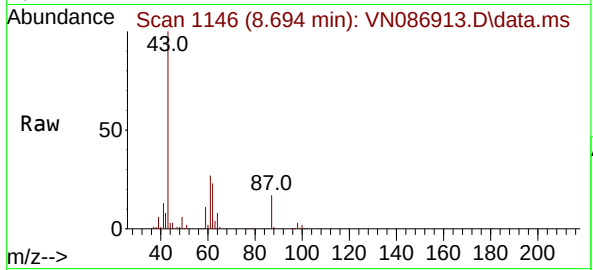
Tgt Ion: 62 Resp: 179943
Ion Ratio Lower Upper
62 100
98 10.7 0.0 21.2





#43
Isopropyl Acetate
Concen: 45.998 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

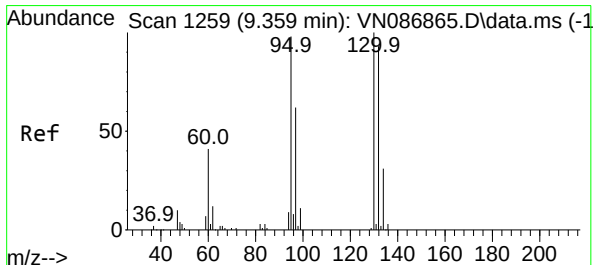
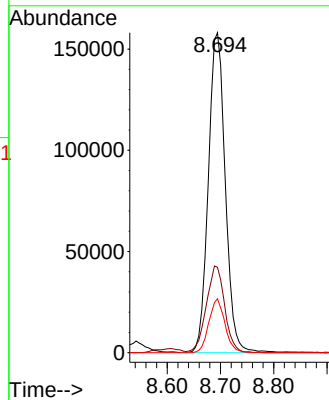
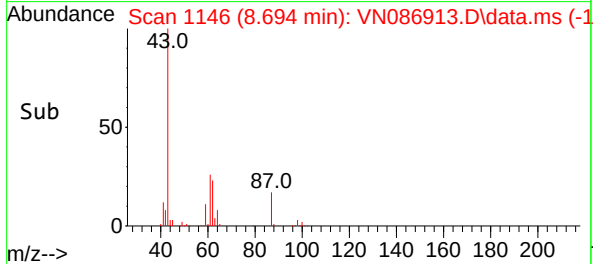
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 350324
Ion Ratio Lower Upper
43 100
61 29.4 22.1 33.1
87 15.9 11.8 17.6

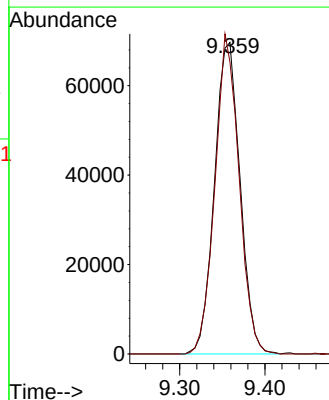
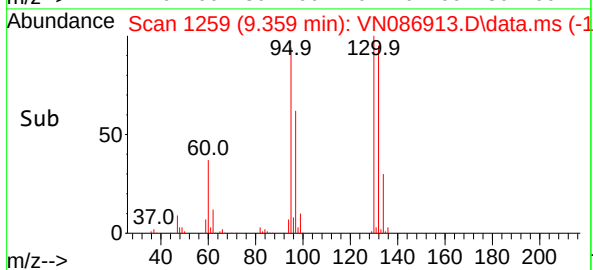
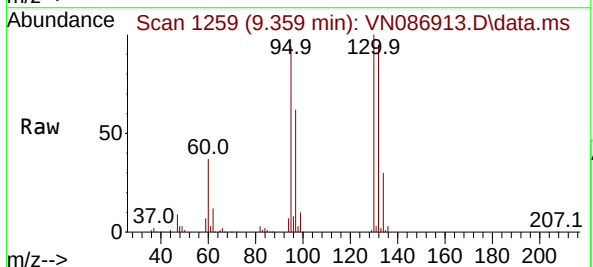
Manual Integrations
APPROVED

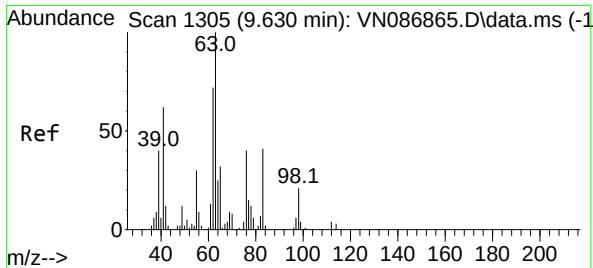
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#44
Trichloroethene
Concen: 50.404 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Tgt Ion:130 Resp: 145683
Ion Ratio Lower Upper
130 100
95 93.7 0.0 196.2





#45

1,2-Dichloropropane

Concen: 49.004 ug/l

RT: 9.624 min Scan# 1319

Delta R.T. -0.006 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDC050

Tgt Ion: 63 Resp: 145320

Ion Ratio Lower Upper

63 100

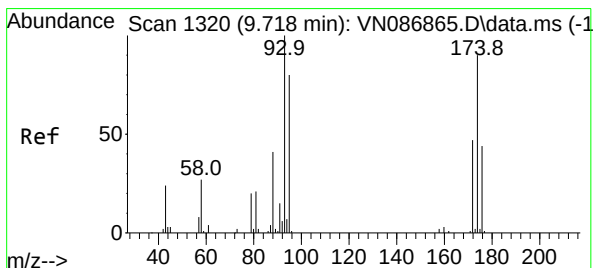
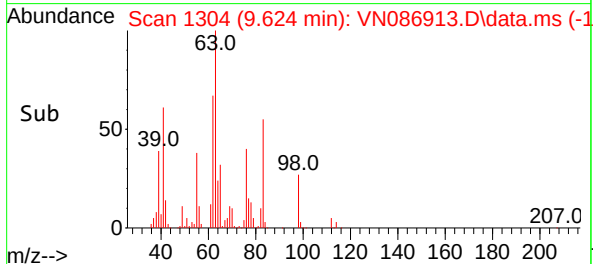
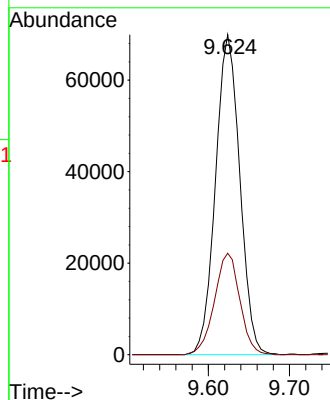
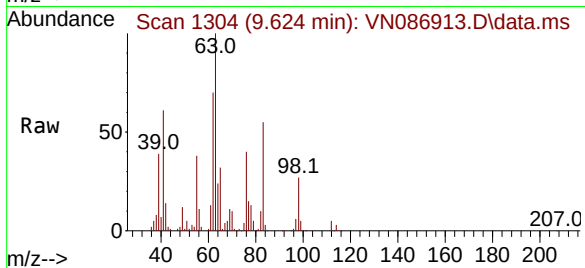
65 31.7 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#46

Dibromomethane

Concen: 50.766 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. -0.006 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

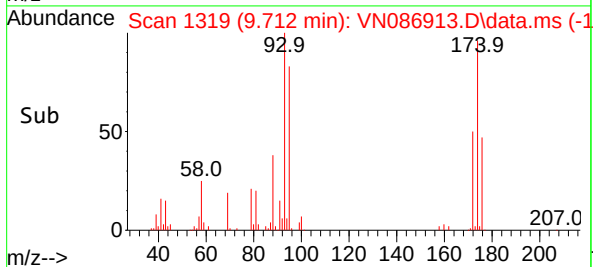
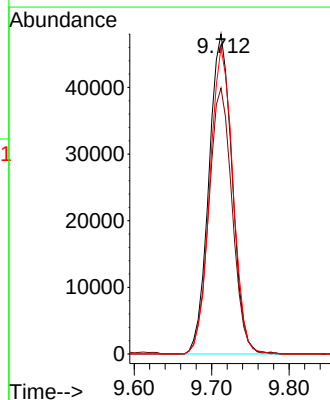
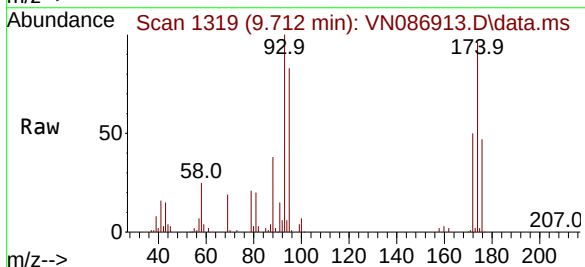
Tgt Ion: 93 Resp: 99996

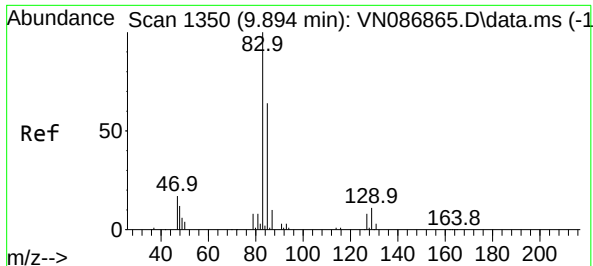
Ion Ratio Lower Upper

93 100

95 83.6 67.1 100.7

174 94.8 74.2 111.4





#47

Bromodichloromethane

Concen: 49.918 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.006 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 20230

Ion Ratio Lower Upper

83 100

85 62.9 50.9 76.3

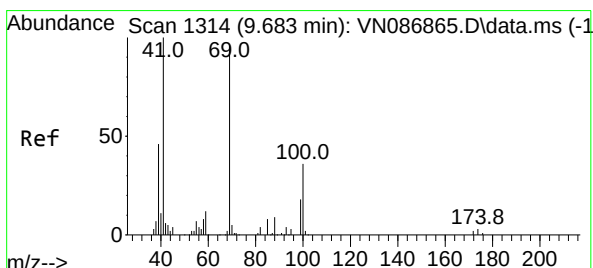
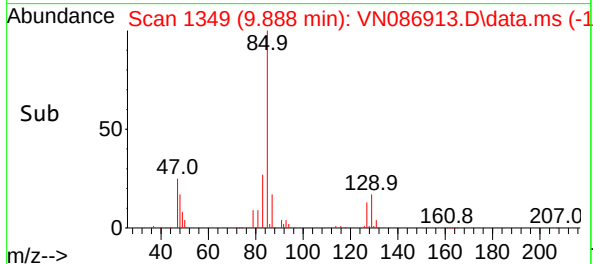
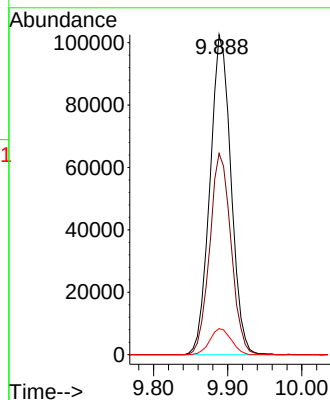
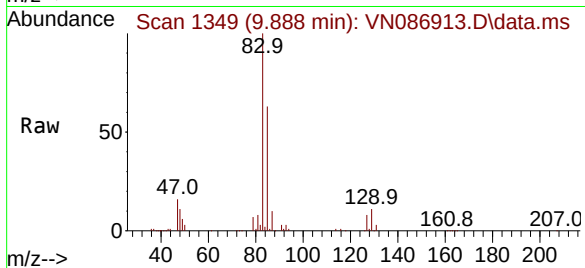
127 8.2 6.6 10.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#48

Methyl methacrylate

Concen: 45.601 ug/l

RT: 9.683 min Scan# 1314

Delta R.T. 0.000 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

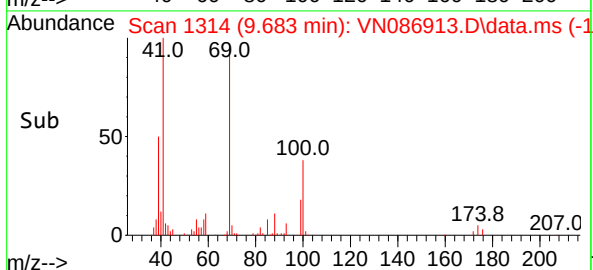
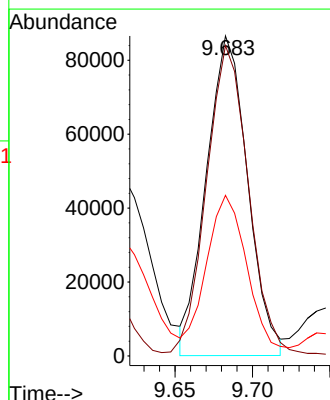
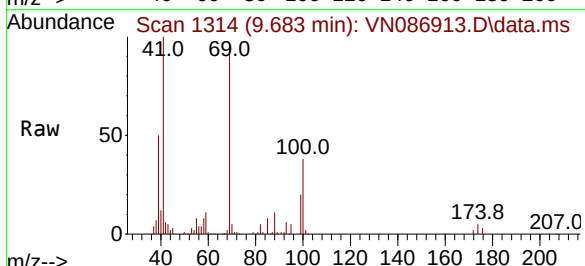
Tgt Ion: 41 Resp: 159853

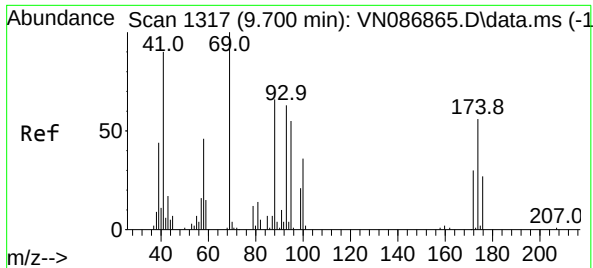
Ion Ratio Lower Upper

41 100

69 99.2 74.6 112.0

39 50.8 40.2 60.4





#49

1,4-Dioxane

Concen: 892.983 ug/l

RT: 9.700 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

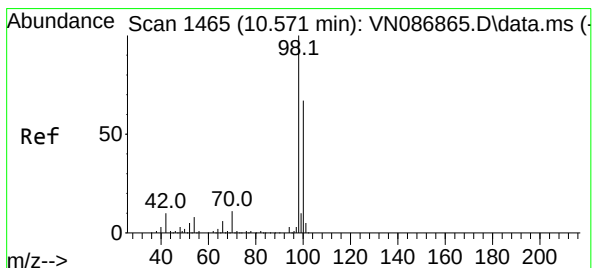
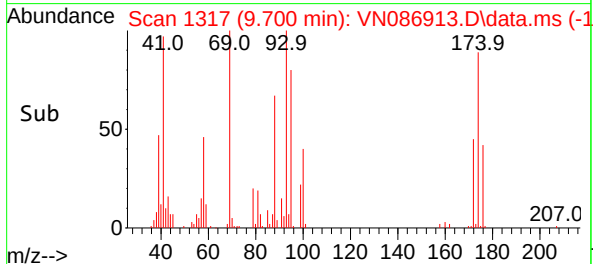
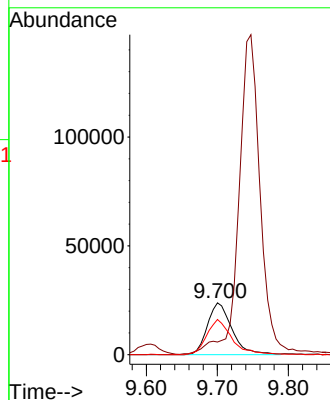
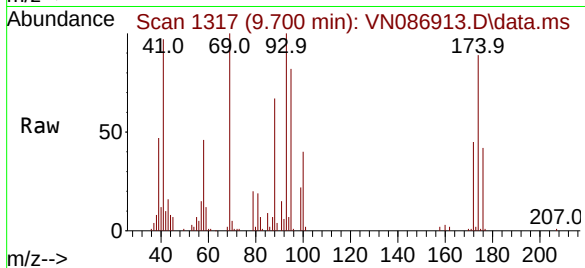
Tgt Ion: 88 Resp: 5694

Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	70.0	57.7	86.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#50

Toluene-d8

Concen: 49.146 ug/l

RT: 10.565 min Scan# 1464

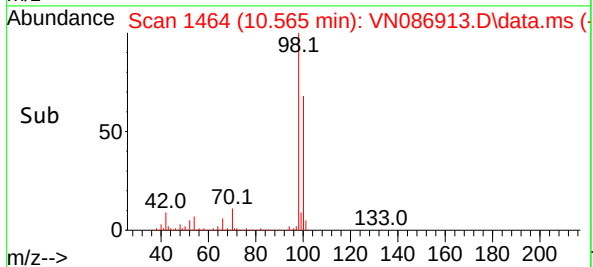
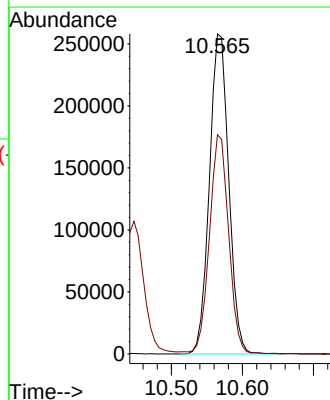
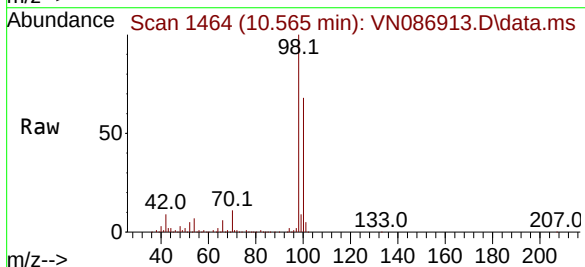
Delta R.T. -0.006 min

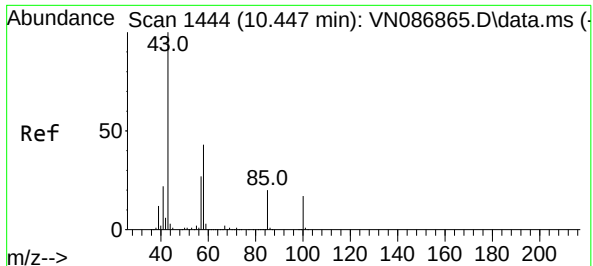
Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

Tgt Ion: 98 Resp: 486698

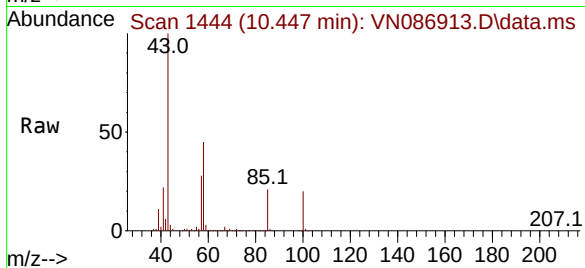
Ion	Ratio	Lower	Upper
98	100		
100	67.9	53.4	80.0





#51
4-Methyl-2-Pentanone
Concen: 235.975 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

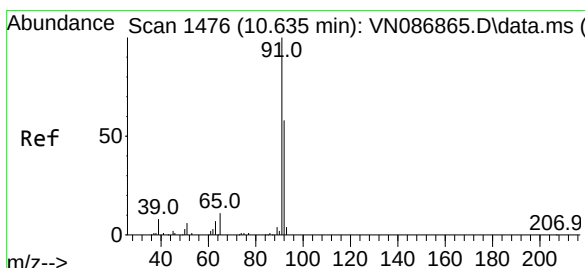
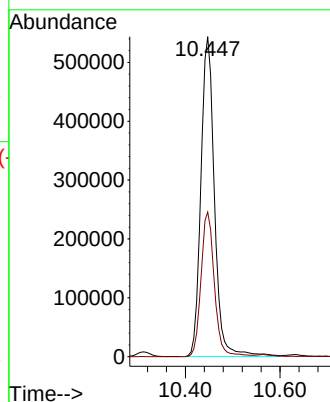
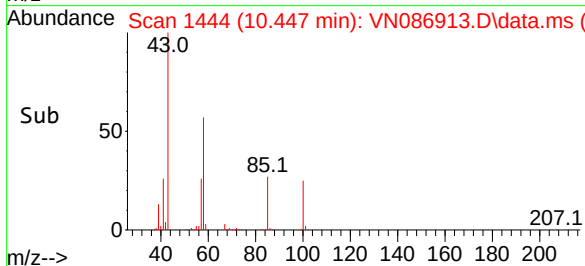
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



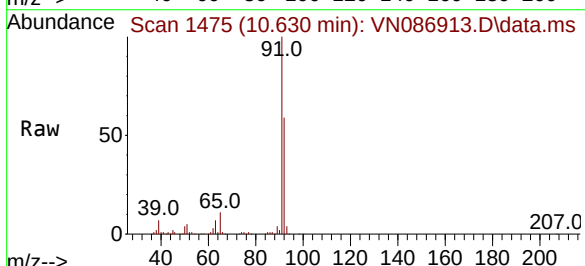
Tgt Ion: 43 Resp: 108194
Ion Ratio Lower Upper
43 100
58 44.4 34.2 51.4

Manual Integrations
APPROVED

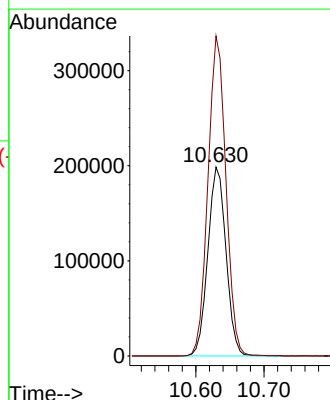
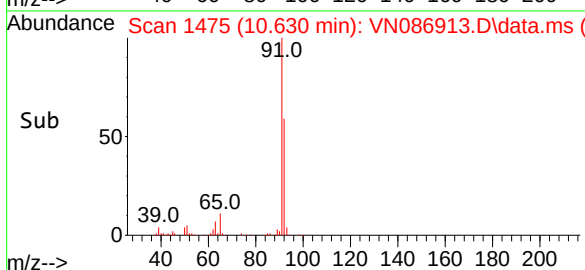
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

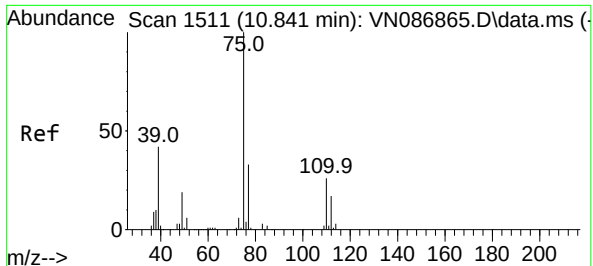


#52
Toluene
Concen: 49.345 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13



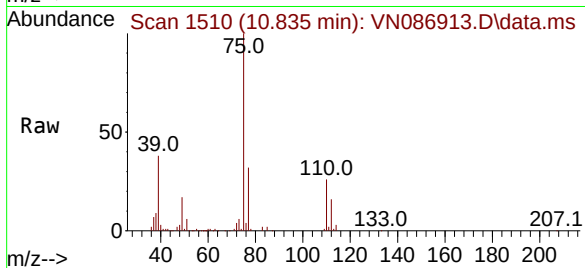
Tgt Ion: 92 Resp: 367587
Ion Ratio Lower Upper
92 100
91 167.7 136.5 204.7





#53
t-1,3-Dichloropropene
Concen: 51.759 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

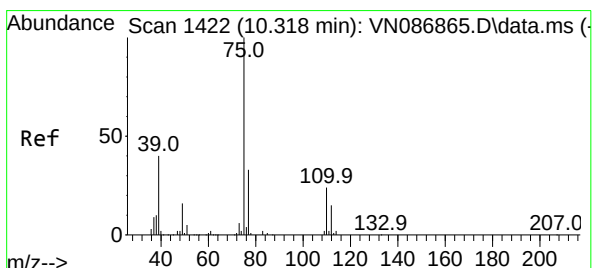
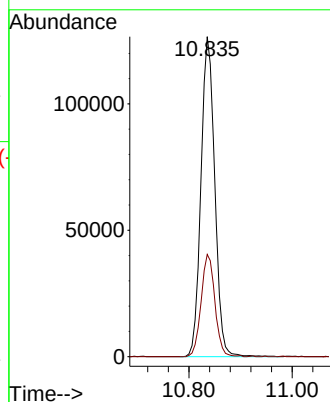
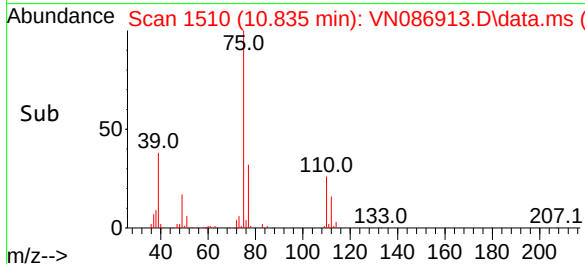
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



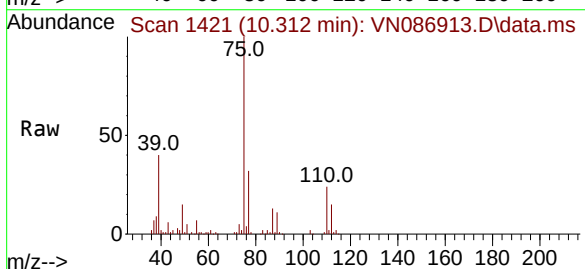
Tgt Ion: 75 Resp: 234554
Ion Ratio Lower Upper
75 100
77 31.9 26.4 39.6

Manual Integrations
APPROVED

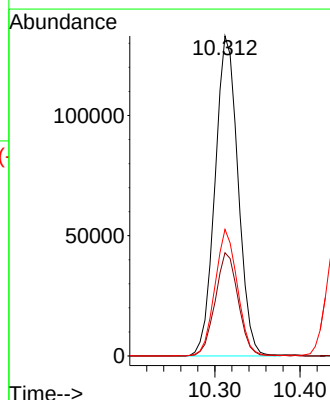
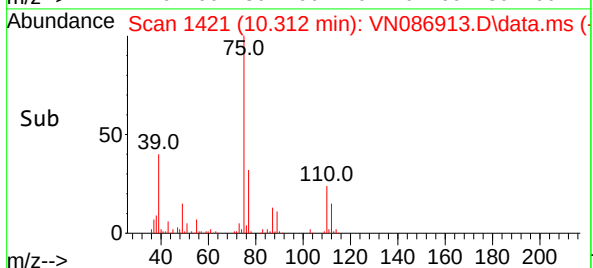
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

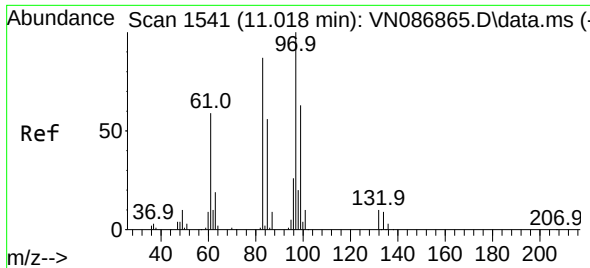


#54
cis-1,3-Dichloropropene
Concen: 51.506 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13



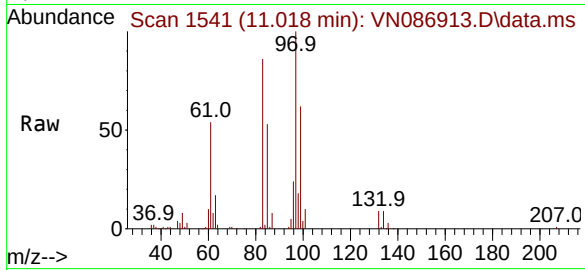
Tgt Ion: 75 Resp: 249744
Ion Ratio Lower Upper
75 100
77 32.3 26.2 39.4
39 39.4 32.3 48.5





#55
1,1,2-Trichloroethane
Concen: 49.785 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

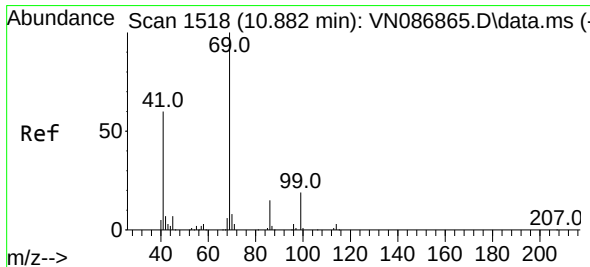
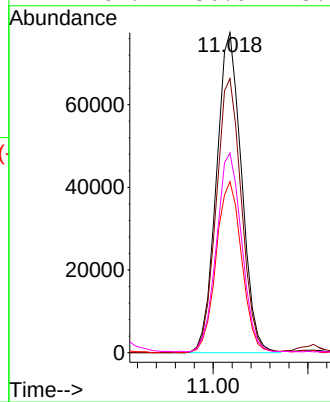
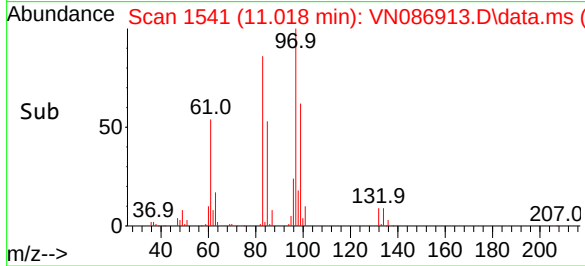
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



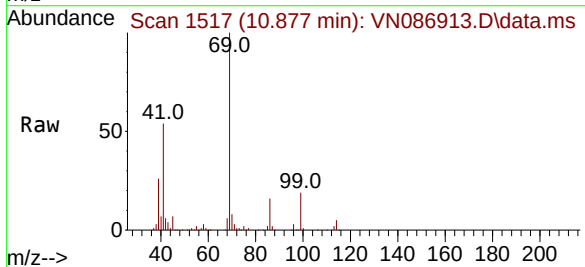
Tgt Ion: 97 Resp: 142700
Ion Ratio Lower Upper
97 100
83 85.6 69.7 104.5
85 53.4 45.1 67.7
99 62.1 50.6 75.8

Manual Integrations
APPROVED

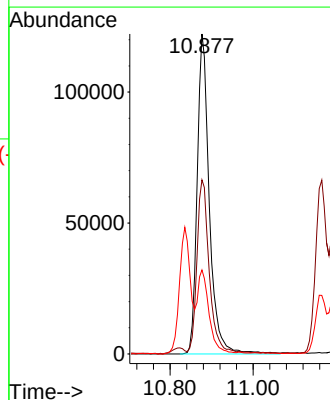
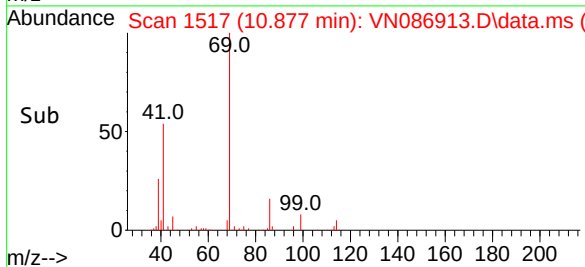
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

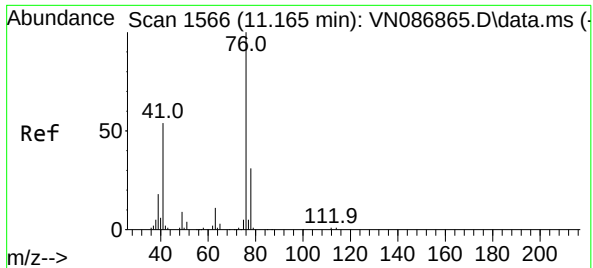


#56
Ethyl methacrylate
Concen: 54.447 ug/l
RT: 10.877 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13



Tgt Ion: 69 Resp: 248574
Ion Ratio Lower Upper
69 100
41 54.6 47.2 70.8
39 24.1 23.0 34.6





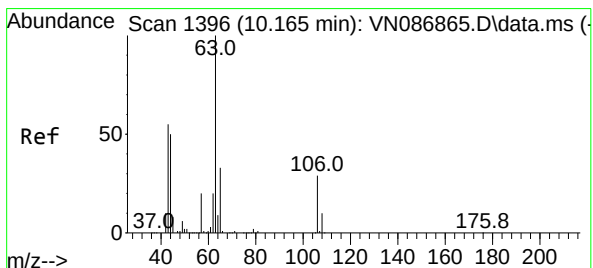
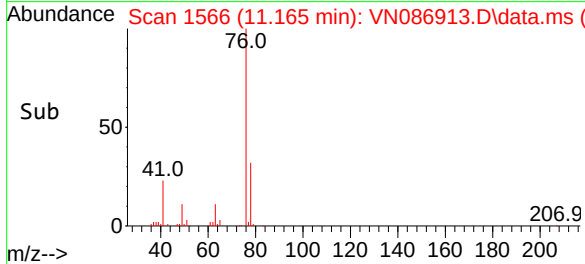
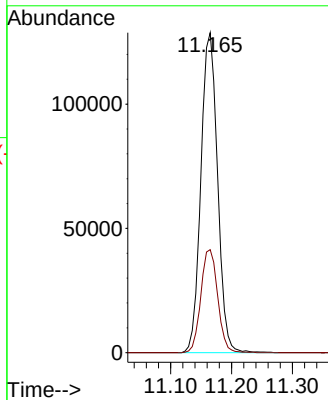
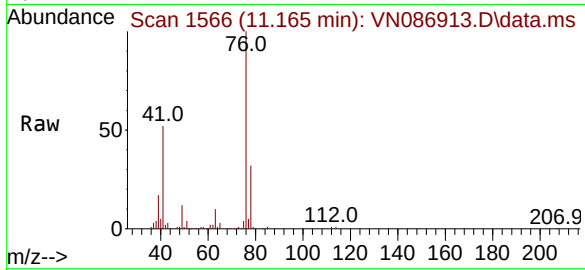
#57
1,3-Dichloropropane
Concen: 49.255 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 24491
Ion Ratio Lower Upper
76 100
78 32.6 25.3 37.9

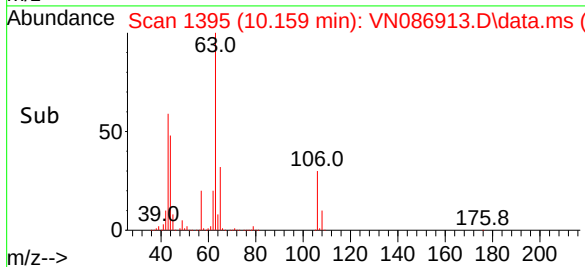
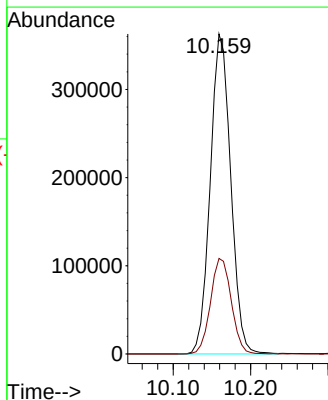
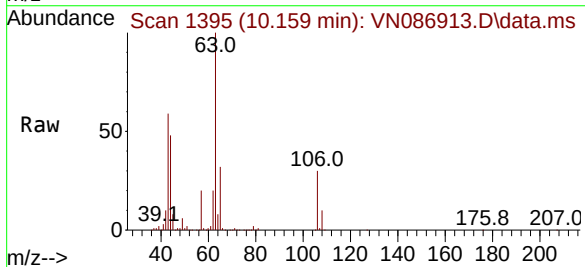
Manual Integrations
APPROVED

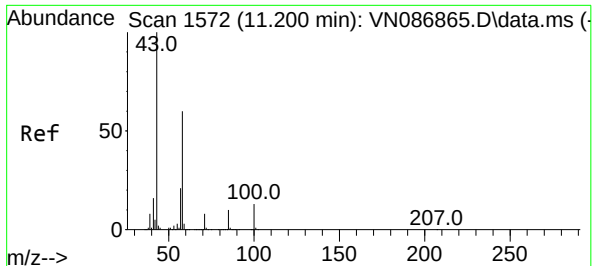
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#58
2-Chloroethyl Vinyl ether
Concen: 244.474 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

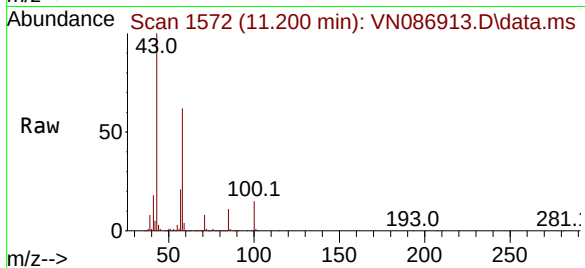
Tgt Ion: 63 Resp: 665707
Ion Ratio Lower Upper
63 100
106 30.3 23.0 34.6





#59
2-Hexanone
Concen: 242.131 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

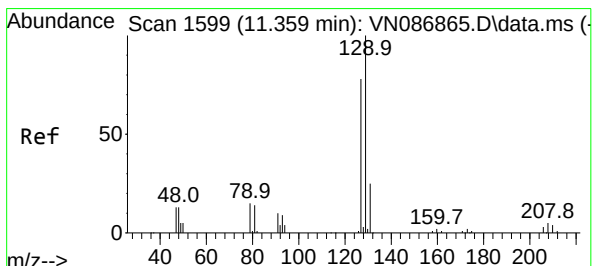
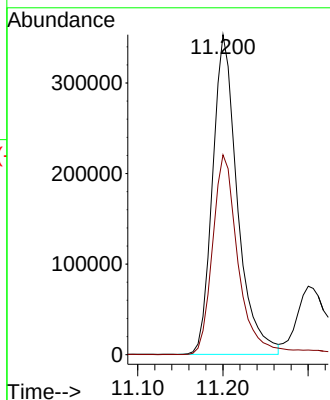
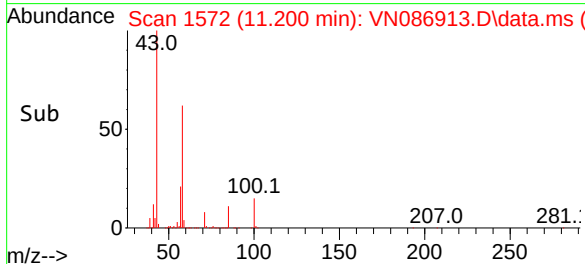
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



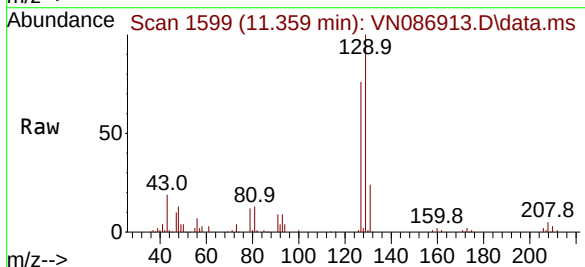
Tgt Ion: 43 Resp: 71509
Ion Ratio Lower Upper
43 100
58 66.5 30.4 91.3

Manual Integrations
APPROVED

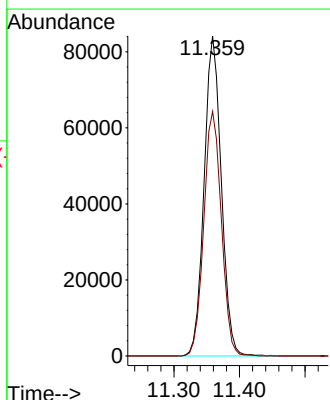
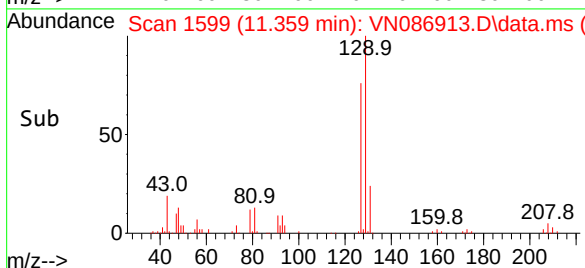
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

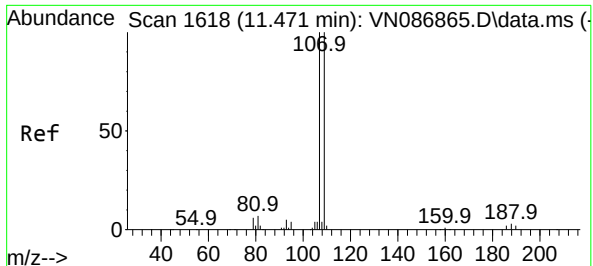


#60
Dibromochloromethane
Concen: 51.366 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13



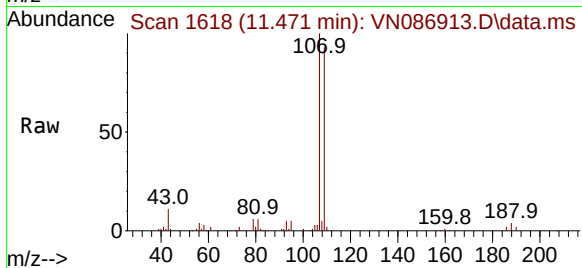
Tgt Ion:129 Resp: 153400
Ion Ratio Lower Upper
129 100
127 78.2 38.6 115.8





#61
1,2-Dibromoethane
Concen: 50.307 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

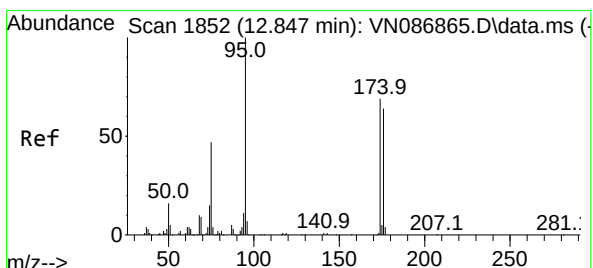
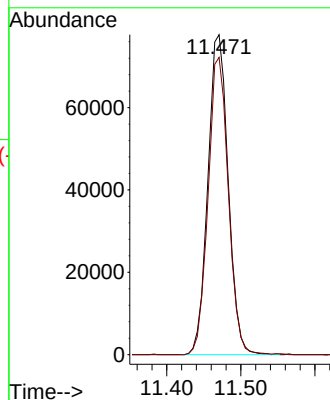
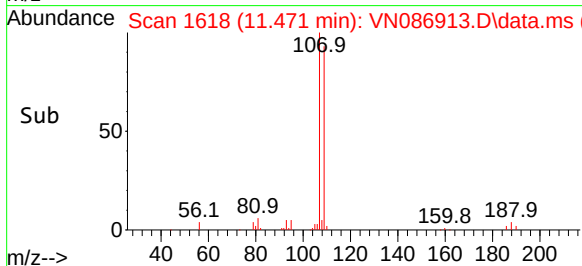
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



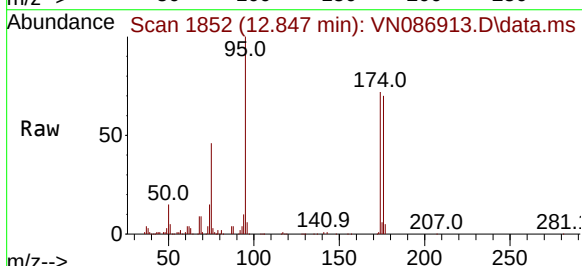
Tgt Ion: 107 Resp: 147800
Ion Ratio Lower Upper
107 100
109 92.7 76.3 114.5

Manual Integrations
APPROVED

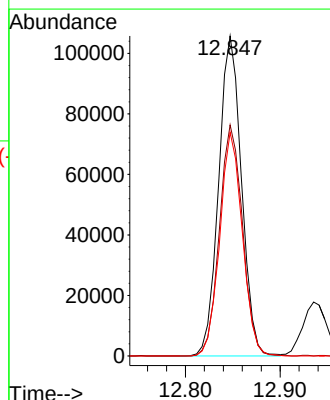
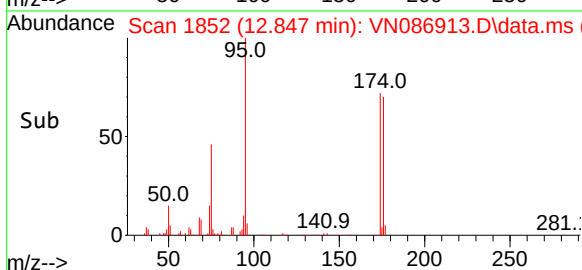
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

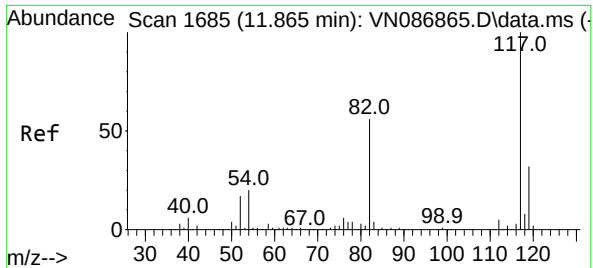


#62
4-Bromofluorobenzene
Concen: 48.131 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13



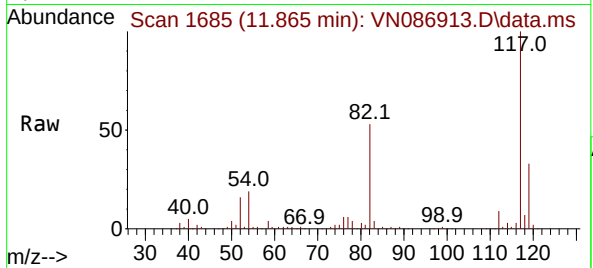
Tgt Ion: 95 Resp: 177087
Ion Ratio Lower Upper
95 100
174 72.9 0.0 141.8
176 69.1 0.0 132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

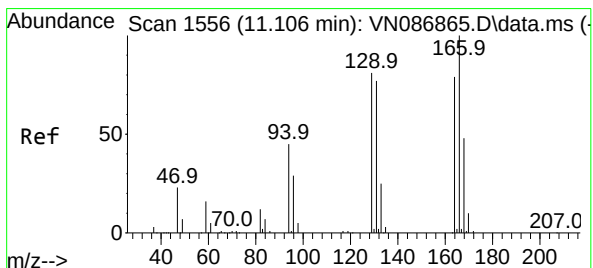
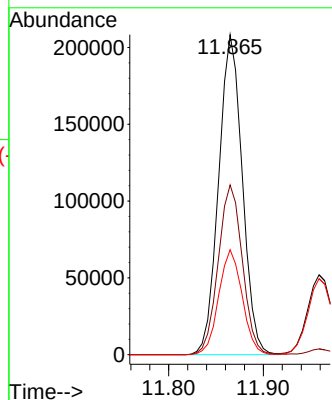
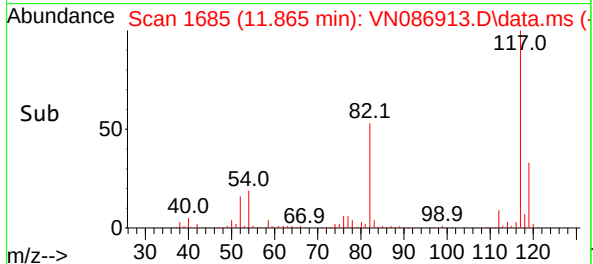
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:117 Resp: 362285
Ion Ratio Lower Upper
117 100
82 53.0 44.6 67.0
119 32.8 25.5 38.3

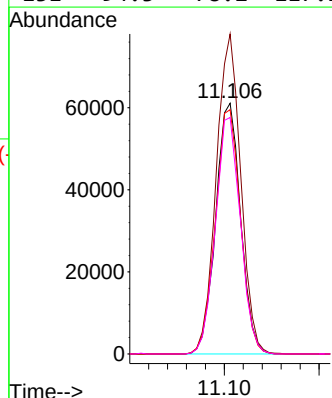
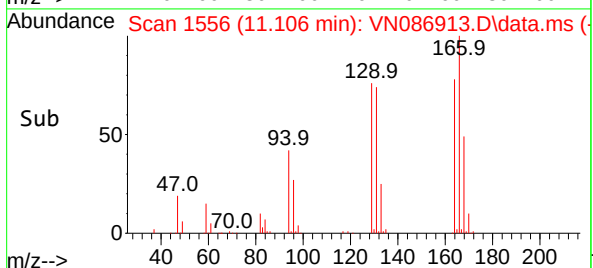
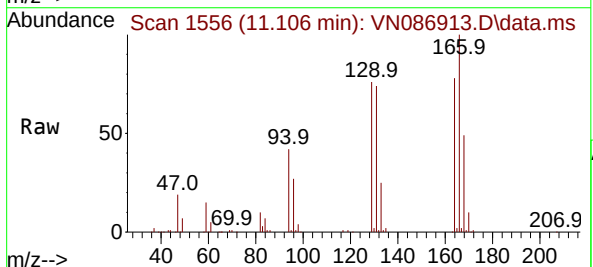
Manual Integrations
APPROVED

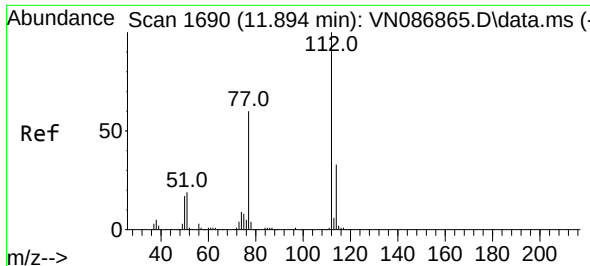
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#64
Tetrachloroethene
Concen: 48.675 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Tgt Ion:164 Resp: 111601
Ion Ratio Lower Upper
164 100
166 127.6 101.8 152.8
129 97.4 83.0 124.4
131 94.3 78.2 117.2





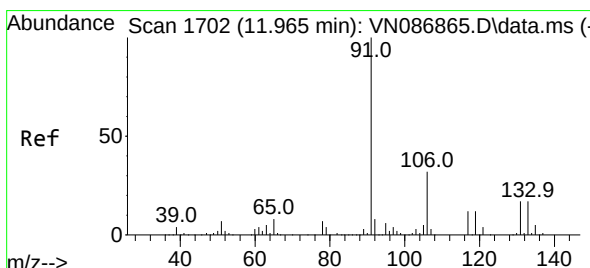
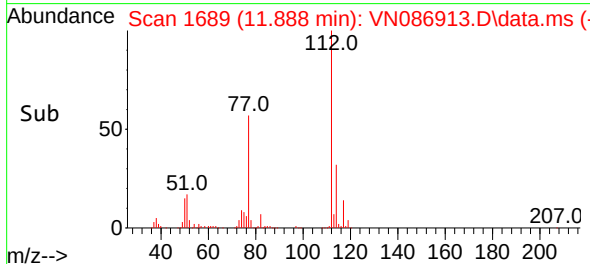
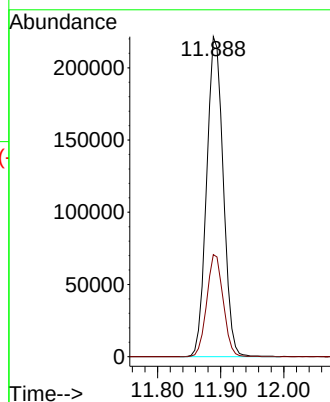
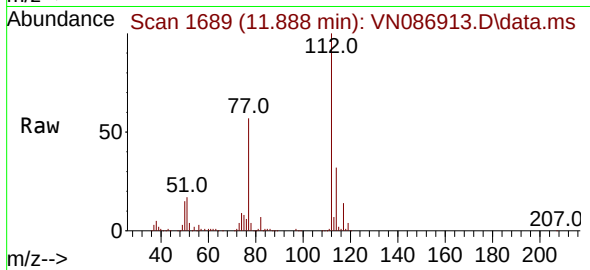
#65
Chlorobenzene
Concen: 50.661 ug/l
RT: 11.888 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:112 Resp: 40479
Ion Ratio Lower Upper
112 100
114 31.9 26.2 39.2

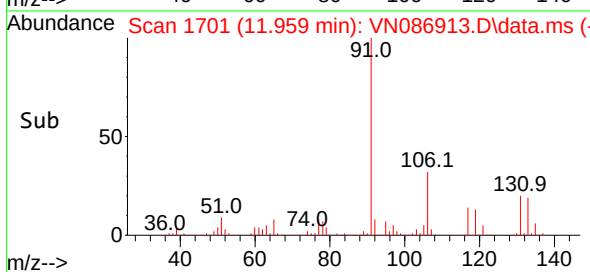
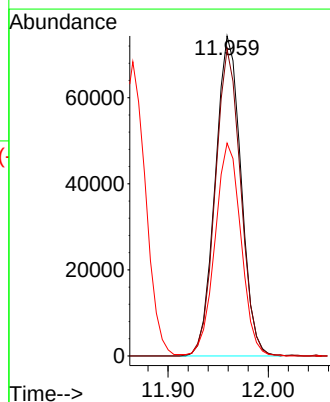
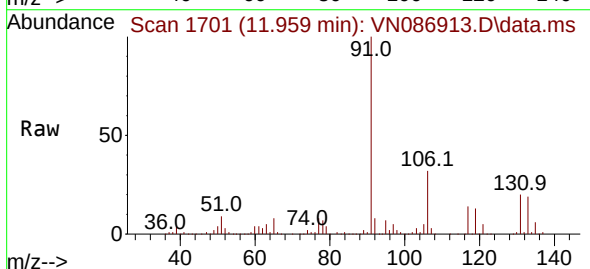
Manual Integrations
APPROVED

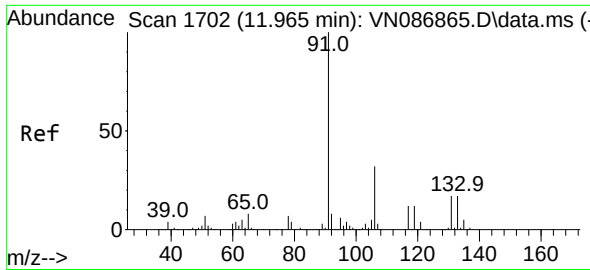
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 51.699 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Tgt Ion:131 Resp: 132787
Ion Ratio Lower Upper
131 100
133 94.8 48.3 144.8
119 67.2 34.0 101.8





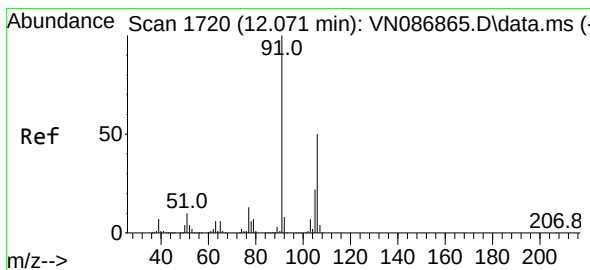
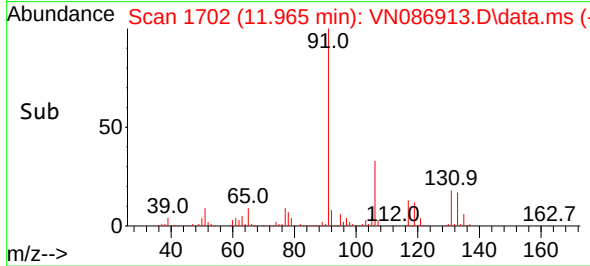
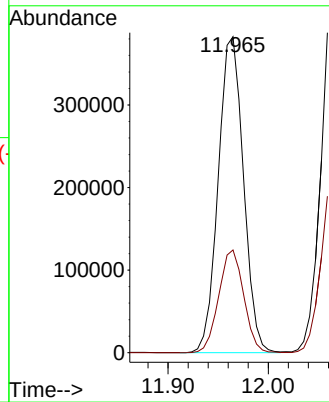
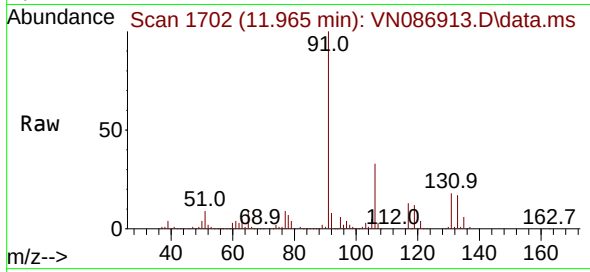
#67
Ethyl Benzene
Concen: 48.548 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 668179
Ion Ratio Lower Upper
91 100
106 32.5 25.4 38.2

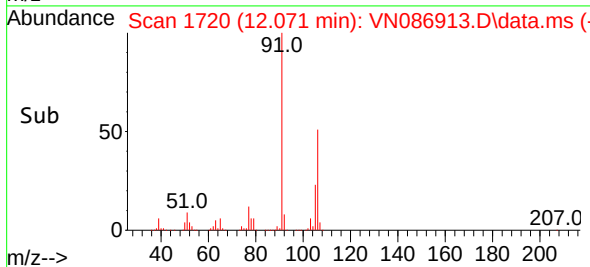
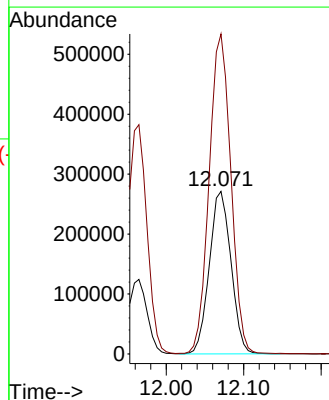
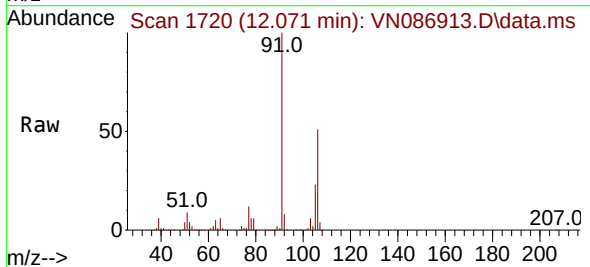
Manual Integrations
APPROVED

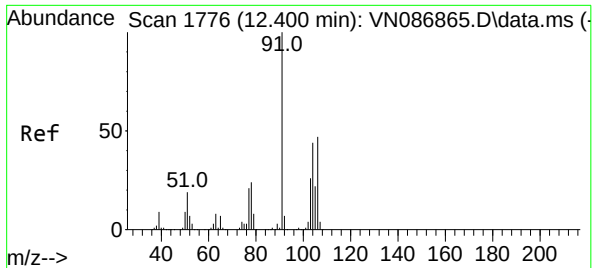
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#68
m/p-Xylenes
Concen: 99.975 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Tgt Ion:106 Resp: 526722
Ion Ratio Lower Upper
106 100
91 198.0 159.4 239.0





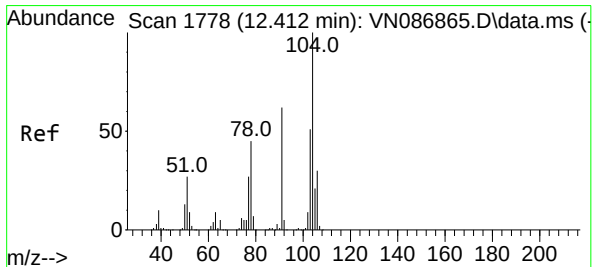
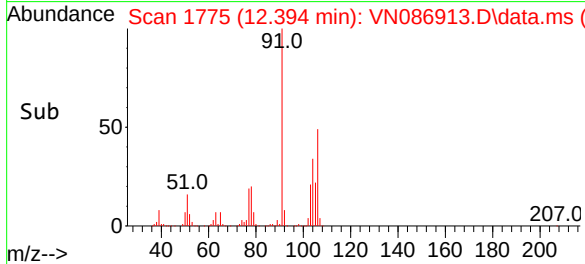
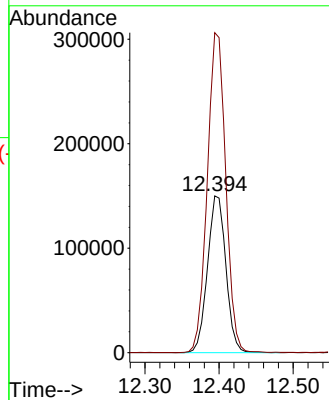
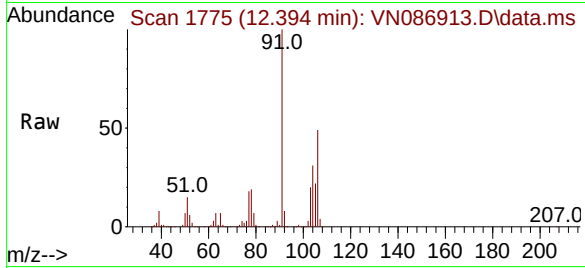
#69
o-Xylene
Concen: 51.297 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 258839
Ion Ratio Lower Upper
106 100
91 204.6 106.1 318.1

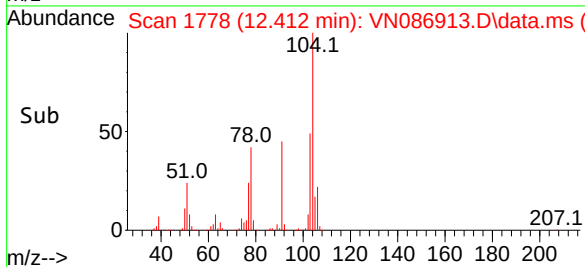
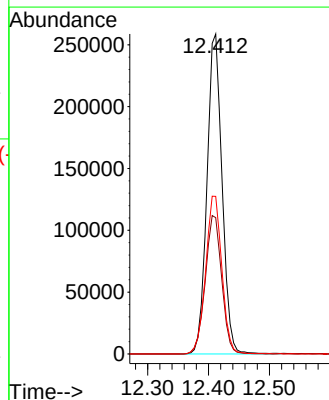
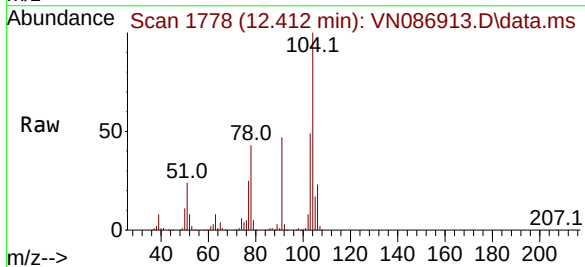
Manual Integrations
APPROVED

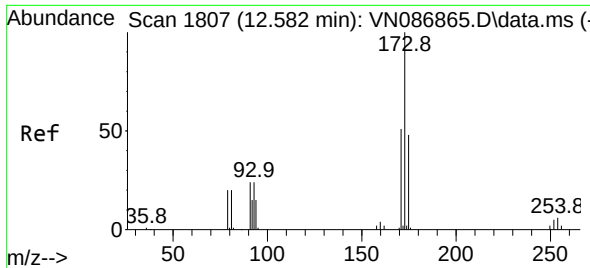
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#70
Styrene
Concen: 51.704 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

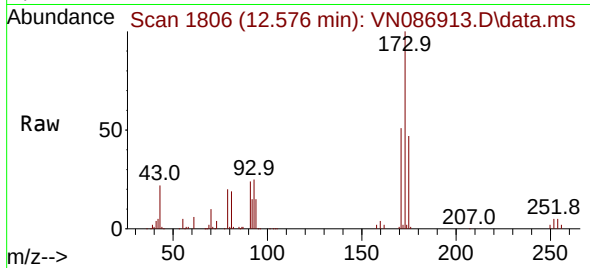
Tgt Ion:104 Resp: 446437
Ion Ratio Lower Upper
104 100
78 46.9 38.5 57.7
103 53.0 43.1 64.7





#71
Bromoform
Concen: 54.693 ug/l
RT: 12.576 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

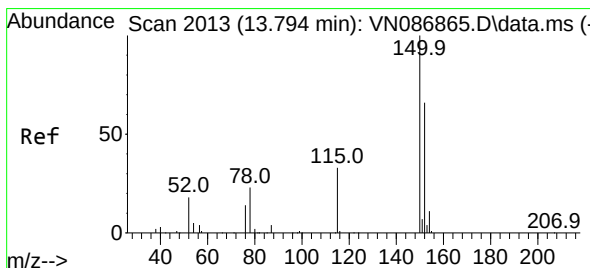
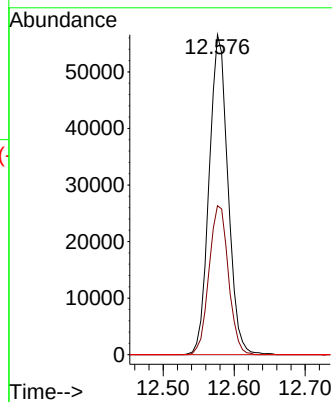
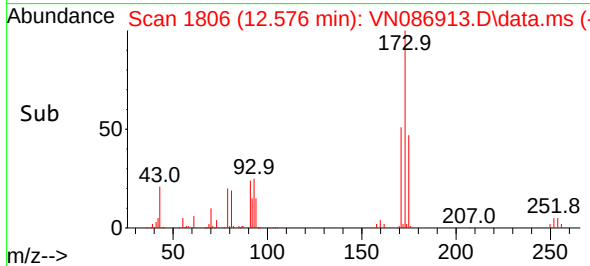
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



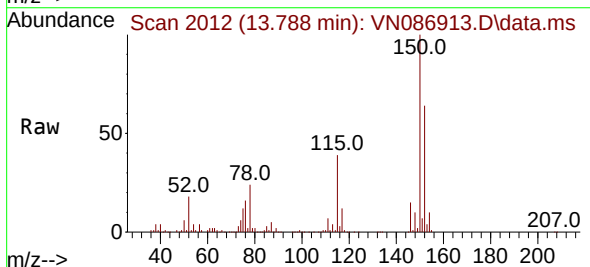
Tgt Ion:173 Resp: 104086
Ion Ratio Lower Upper
173 100
175 48.0 24.1 72.4
254 0.0 0.0 0.0

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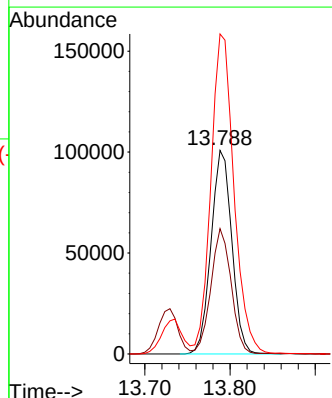
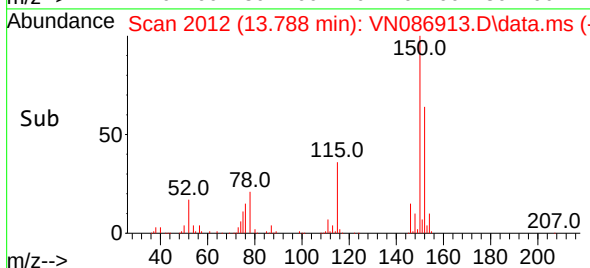
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

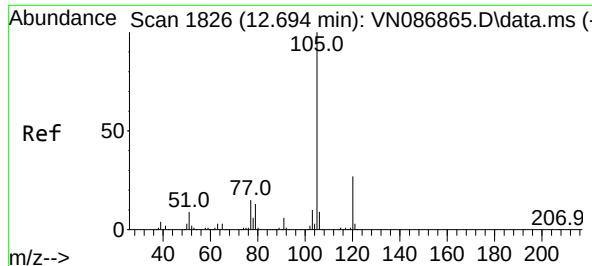


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13



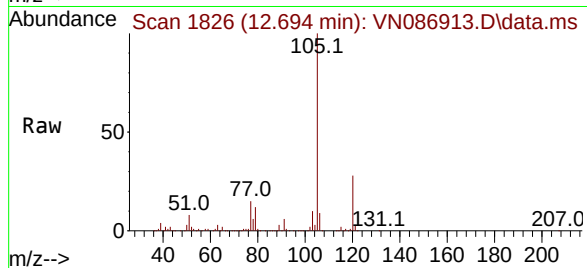
Tgt Ion:152 Resp: 170987
Ion Ratio Lower Upper
152 100
115 59.8 30.1 90.5
150 174.7 0.0 345.0





#73
Isopropylbenzene
Concen: 49.917 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

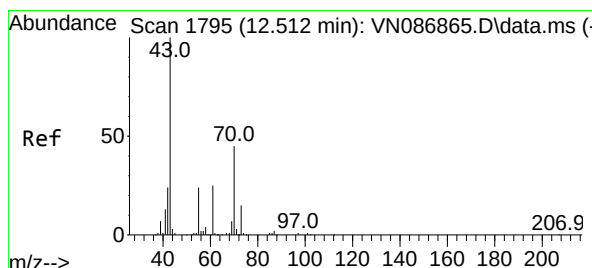
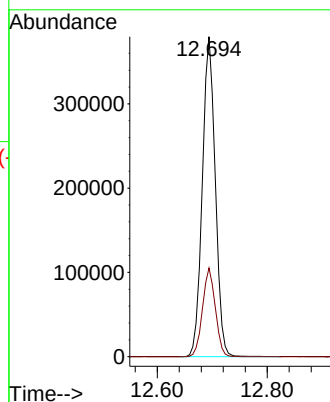
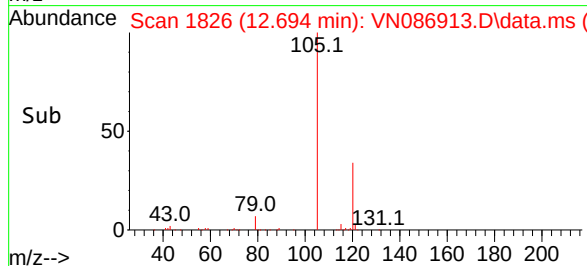
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:105 Resp: 621794
Ion Ratio Lower Upper
105 100
120 27.3 13.5 40.4

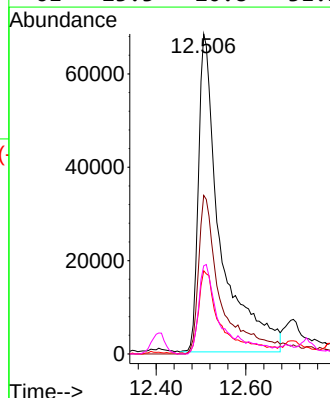
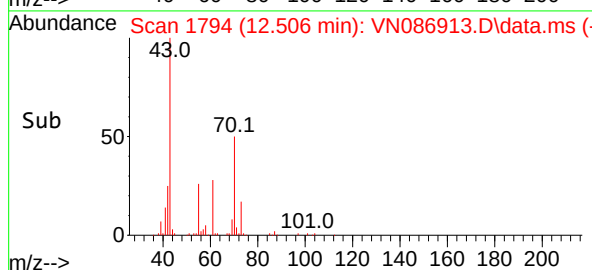
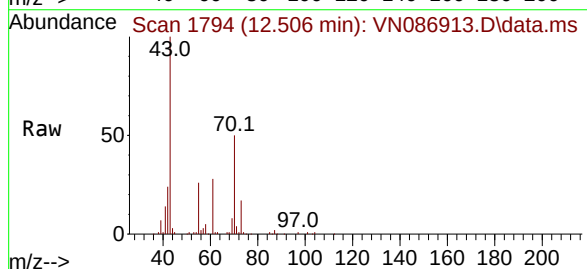
Manual Integrations
APPROVED

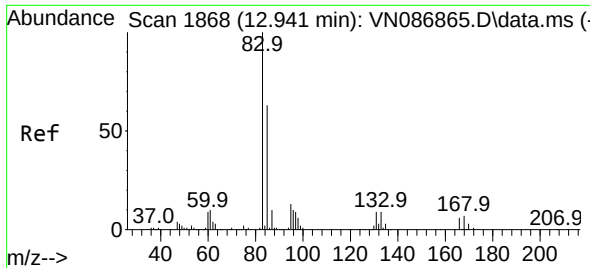
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#74
N-ethyl acetate
Concen: 53.204 ug/l
RT: 12.506 min Scan# 1794
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

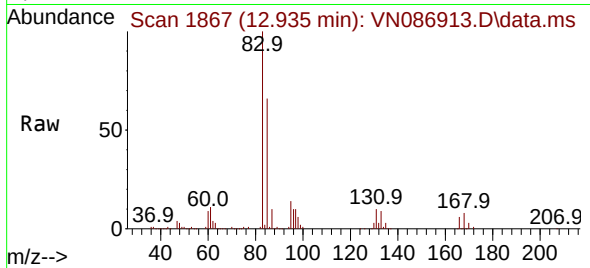
Tgt Ion: 43 Resp: 231590
Ion Ratio Lower Upper
43 100
70 52.9 37.6 56.4
55 27.1 19.0 28.6
61 23.3 20.8 31.2





#75
1,1,2,2-Tetrachloroethane
Concen: 51.363 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

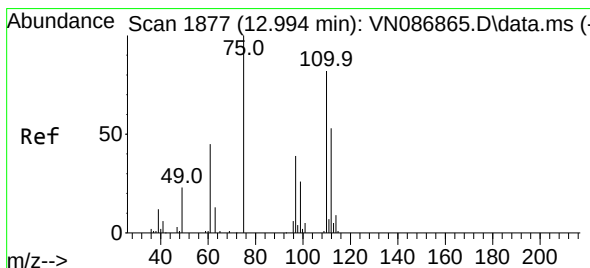
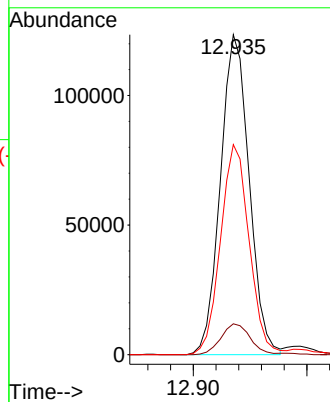
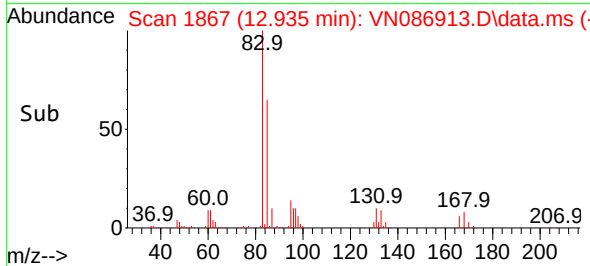
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 83 Resp: 21675
Ion Ratio Lower Upper
83 100
131 10.1 4.9 14.7
85 65.6 32.0 96.0

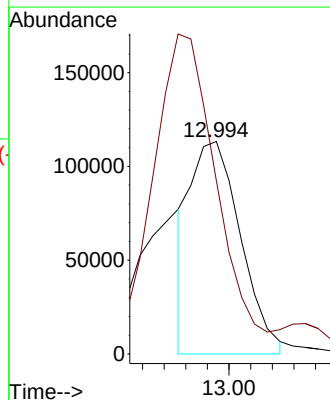
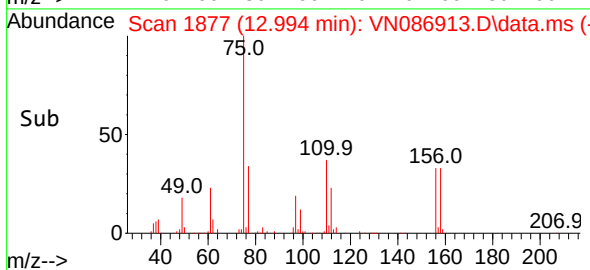
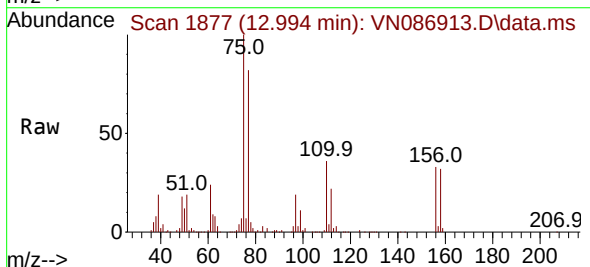
Manual Integrations
APPROVED

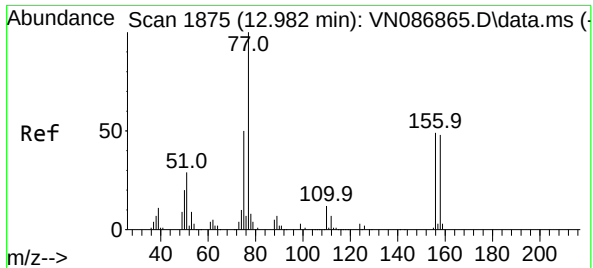
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#76
1,2,3-Trichloropropane
Concen: 44.986 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

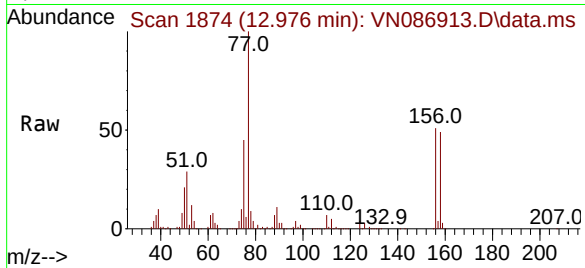
Tgt Ion: 75 Resp: 182840
Ion Ratio Lower Upper
75 100
77 192.1 79.3 237.9





#77
Bromobenzene
Concen: 54.054 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

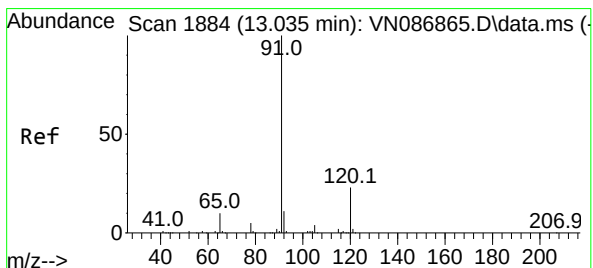
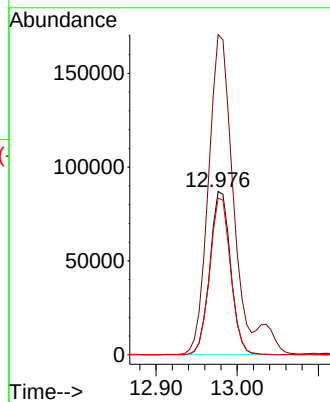
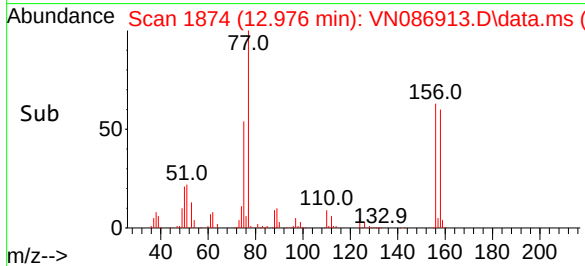
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:156 Resp: 154418
Ion Ratio Lower Upper
156 100
77 227.4 117.7 353.1
158 96.3 48.1 144.4

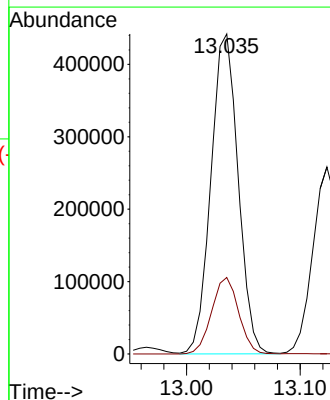
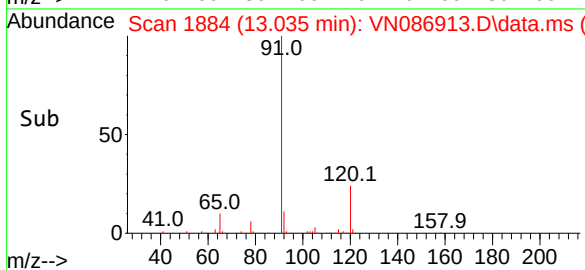
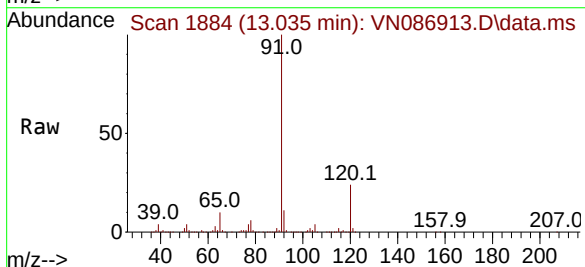
Manual Integrations
APPROVED

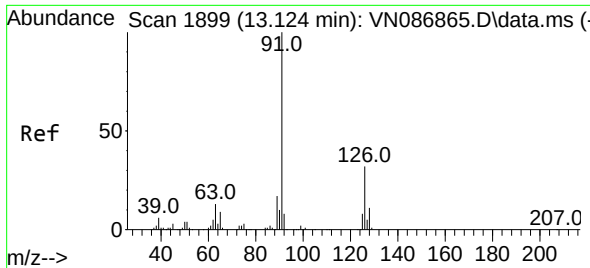
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#78
n-propylbenzene
Concen: 48.621 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Tgt Ion: 91 Resp: 736021
Ion Ratio Lower Upper
91 100
120 23.6 11.4 34.2





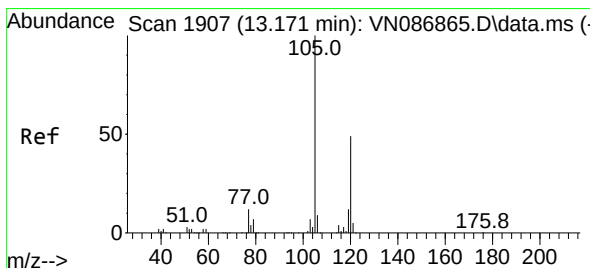
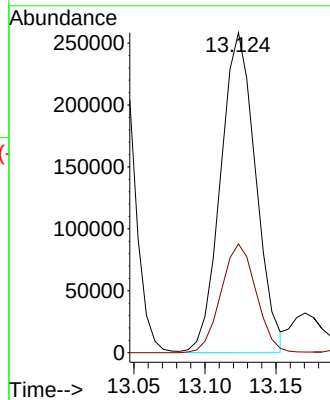
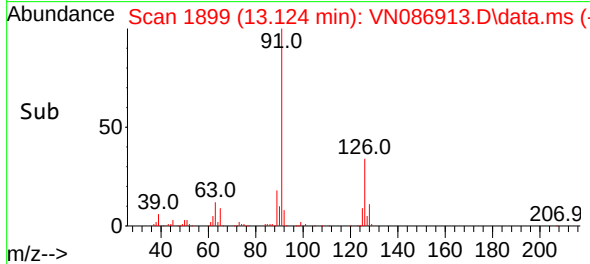
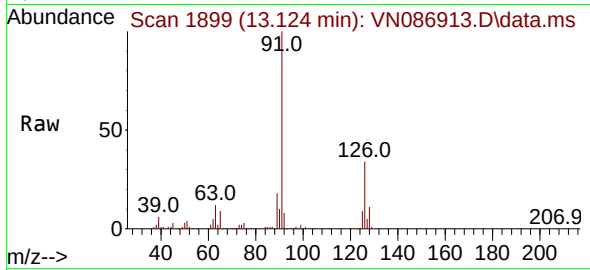
#79
2-Chlorotoluene
Concen: 48.865 ug/l
RT: 13.124 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 443618
Ion Ratio Lower Upper
91 100
126 34.0 16.2 48.5

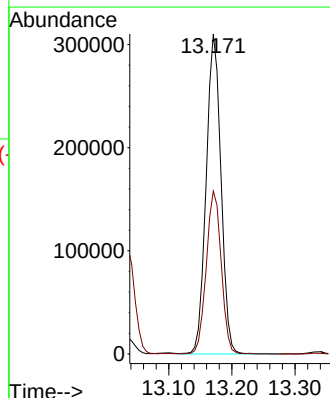
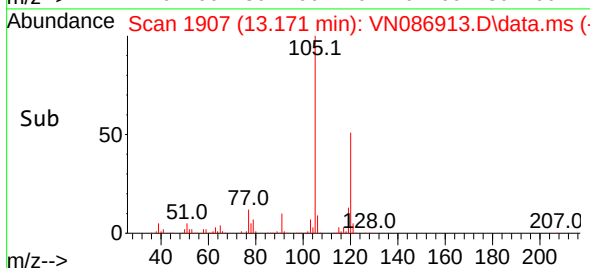
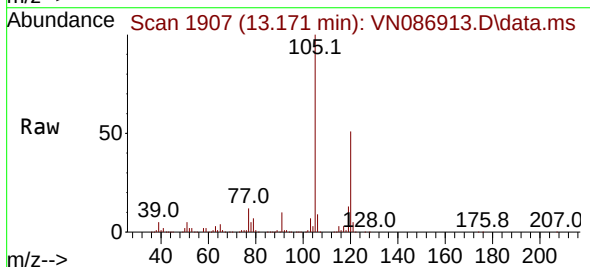
Manual Integrations
APPROVED

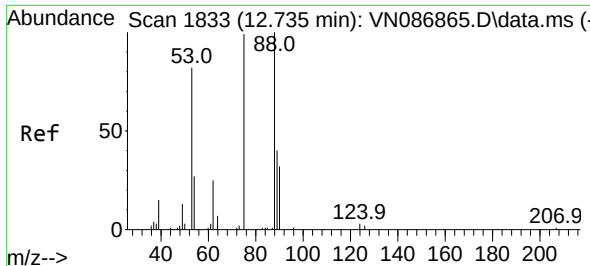
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#80
1,3,5-Trimethylbenzene
Concen: 49.161 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

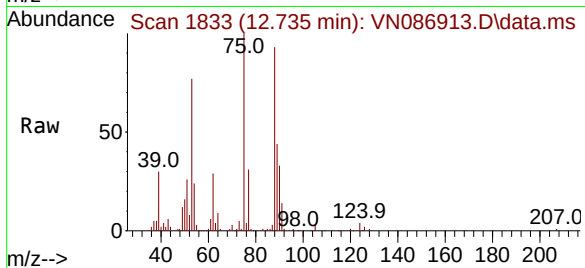
Tgt Ion:105 Resp: 505593
Ion Ratio Lower Upper
105 100
120 51.4 24.9 74.6





#81
trans-1,4-Dichloro-2-butene
Concen: 52.029 ug/l m
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

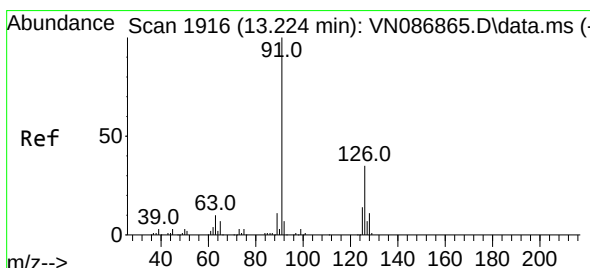
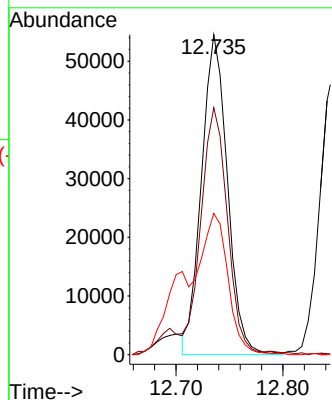
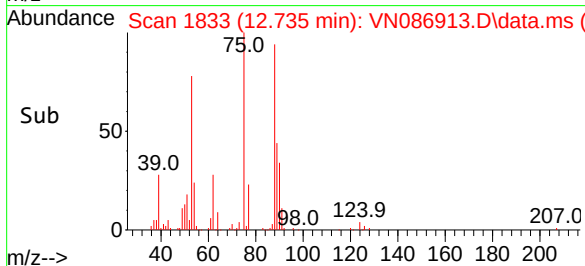
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 75 Resp: 9186
Ion Ratio Lower Upper
75 100
53 80.7 66.6 99.8
89 48.3 36.7 55.1

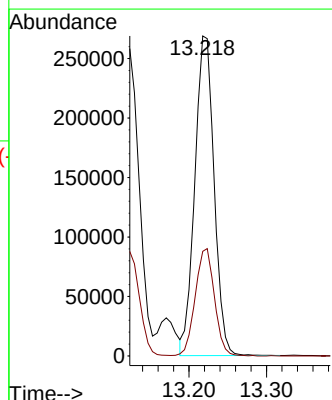
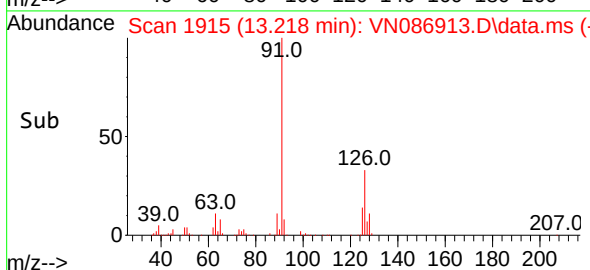
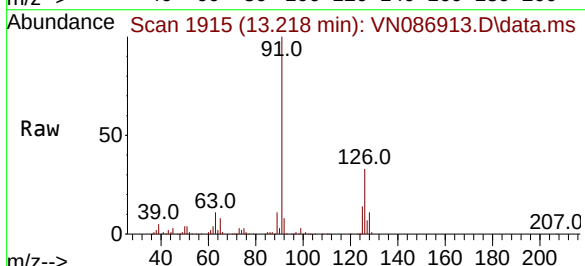
Manual Integrations
APPROVED

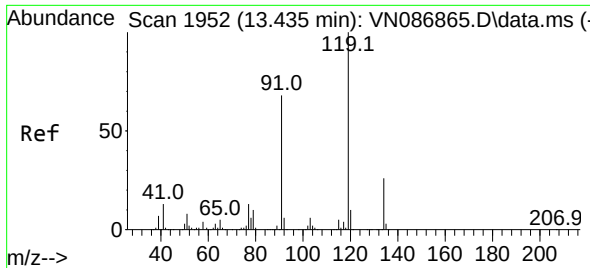
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#82
4-Chlorotoluene
Concen: 50.423 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

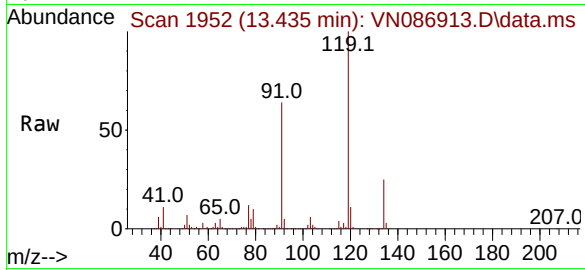
Tgt Ion: 91 Resp: 463176
Ion Ratio Lower Upper
91 100
126 33.7 16.7 50.1





#83
tert-Butylbenzene
Concen: 46.840 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

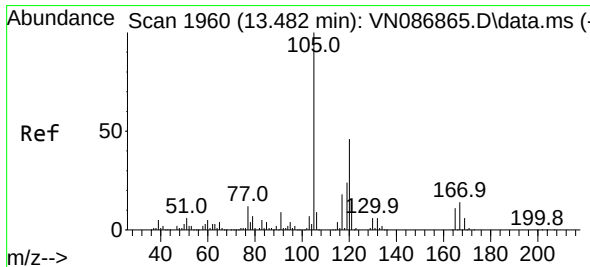
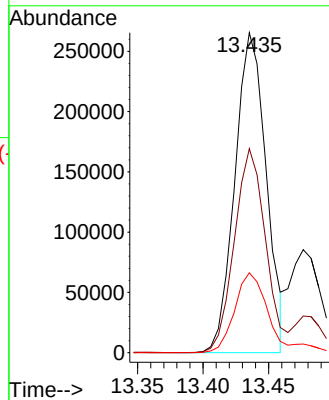
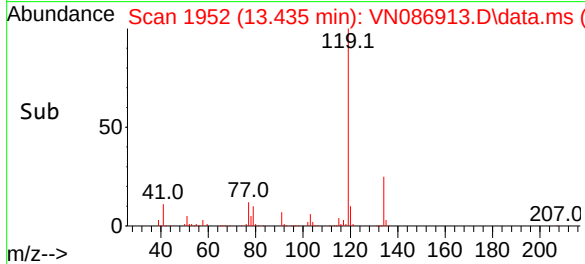
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



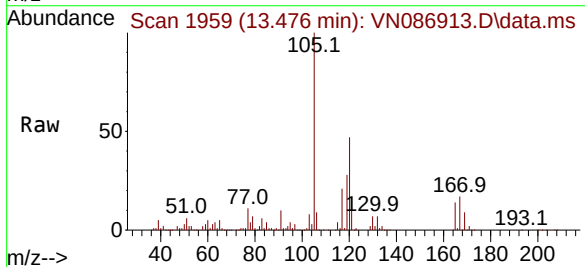
Tgt Ion:119 Resp: 440950
Ion Ratio Lower Upper
119 100
91 63.7 32.1 96.5
134 27.5 13.4 40.1

Manual Integrations
APPROVED

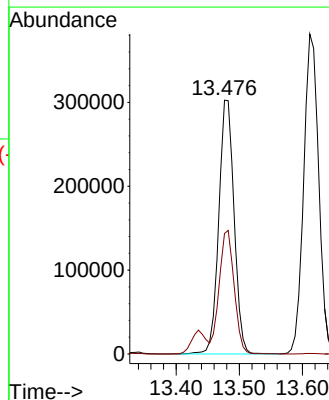
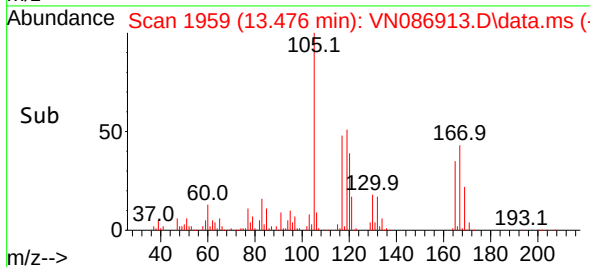
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

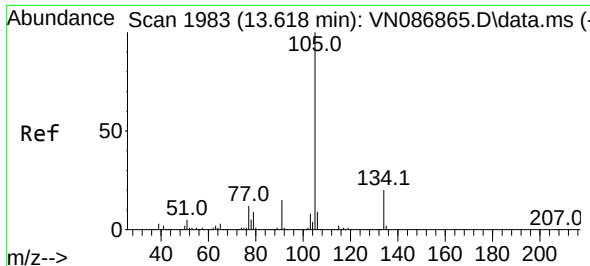


#84
1,2,4-Trimethylbenzene
Concen: 49.422 ug/l
RT: 13.476 min Scan# 1959
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13



Tgt Ion:105 Resp: 509675
Ion Ratio Lower Upper
105 100
120 47.5 23.2 69.6





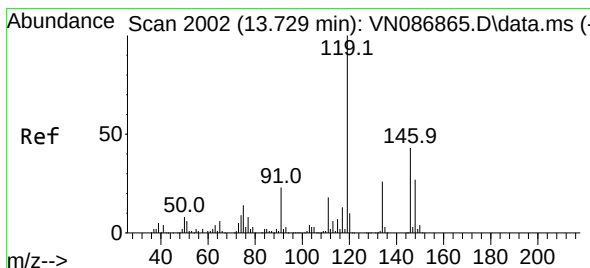
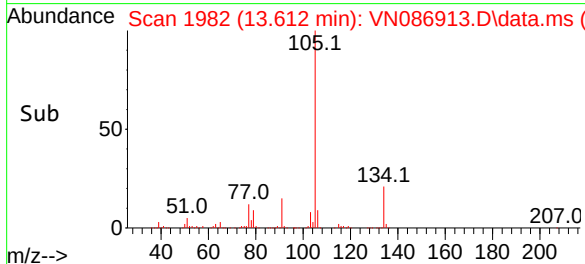
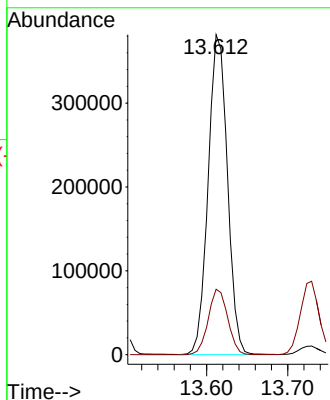
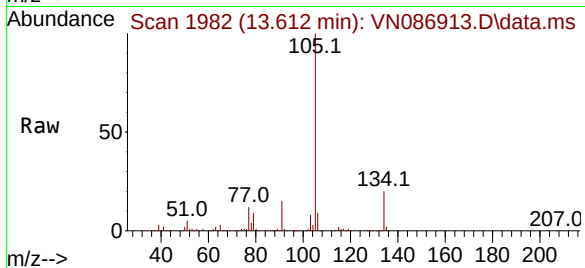
#85
sec-Butylbenzene
Concen: 46.060 ug/l
RT: 13.612 min Scan# 1983
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 629702
Ion Ratio Lower Upper
105 100
134 20.6 10.0 30.0

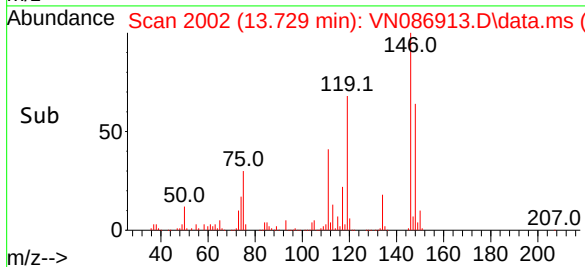
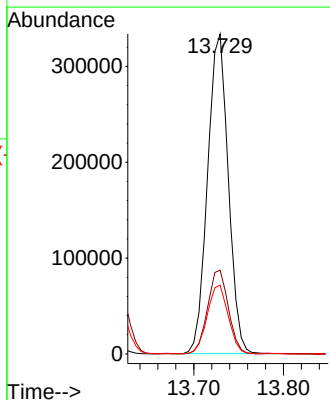
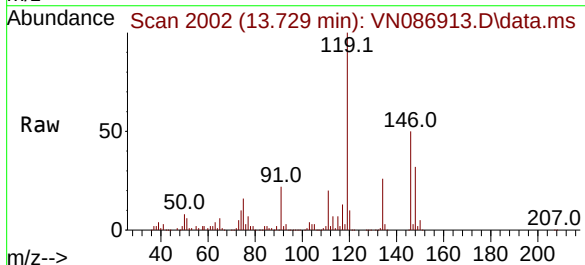
Manual Integrations
APPROVED

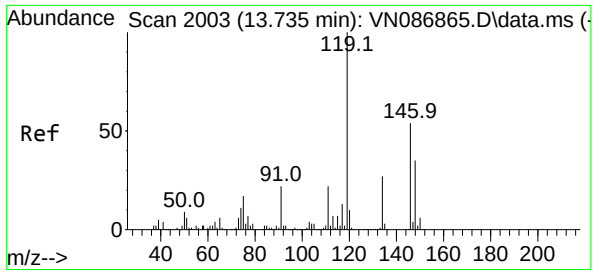
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#86
p-Isopropyltoluene
Concen: 47.367 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Tgt Ion:119 Resp: 535293
Ion Ratio Lower Upper
119 100
134 26.2 13.5 40.4
91 21.7 11.5 34.4





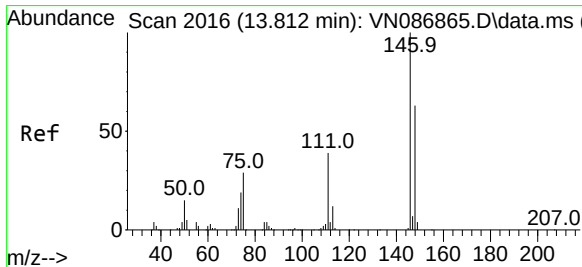
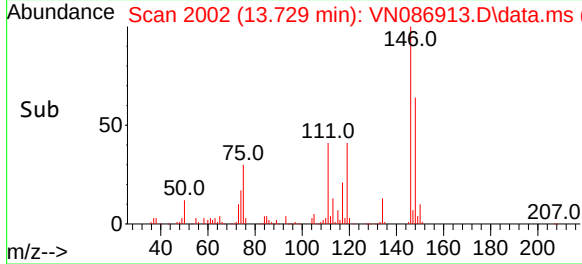
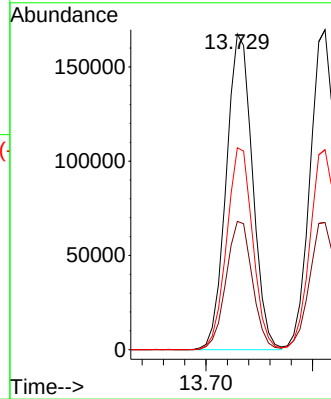
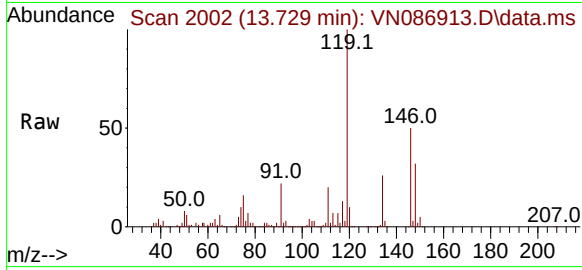
#87
1,3-Dichlorobenzene
Concen: 51.039 ug/l
RT: 13.729 min Scan# 2003
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 286869
Ion Ratio Lower Upper
146 100
111 40.7 20.9 62.8
148 63.5 32.0 96.2

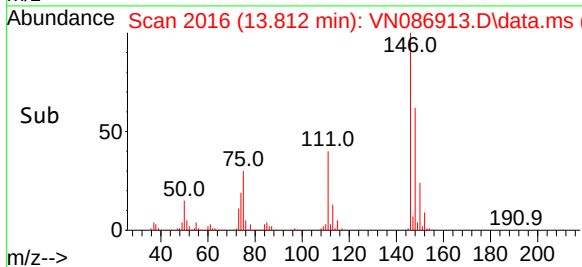
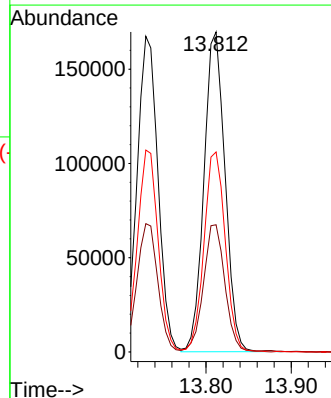
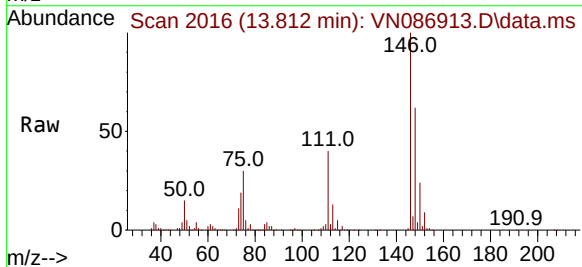
Manual Integrations
APPROVED

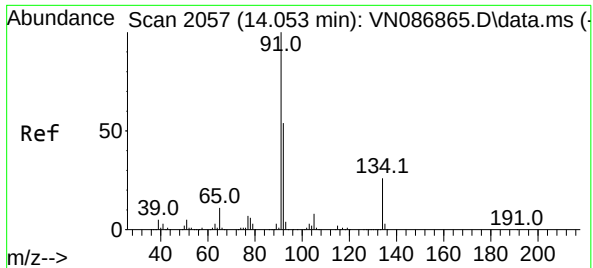
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#88
1,4-Dichlorobenzene
Concen: 50.774 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

Tgt Ion:146 Resp: 290947
Ion Ratio Lower Upper
146 100
111 40.0 19.9 59.7
148 63.4 31.8 95.4





#89

n-Butylbenzene

Concen: 44.380 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. 0.000 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

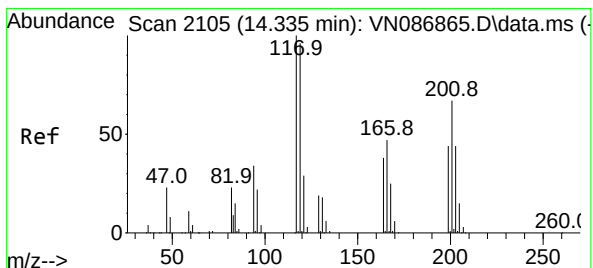
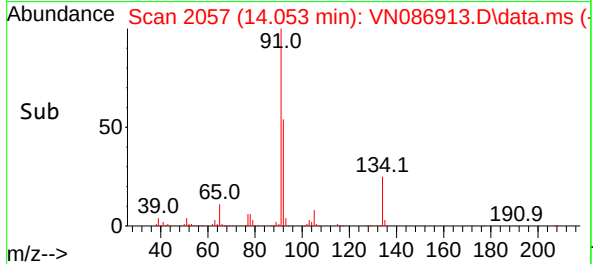
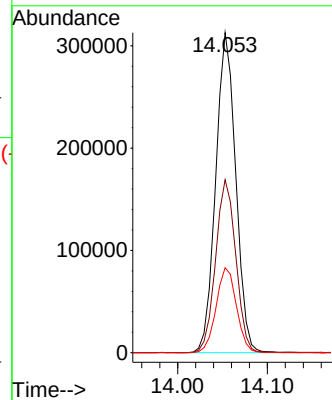
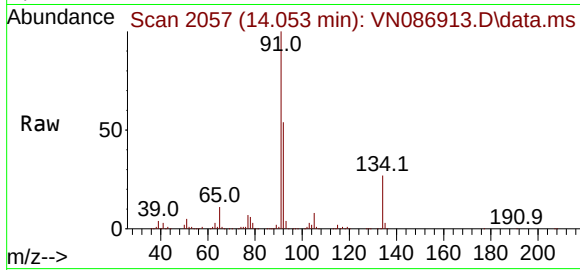
Tgt Ion:	91	Resp:	48579
Ion	Ratio	Lower	Upper
91	100		
92	54.5	27.5	82.4
134	26.9	13.0	39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#90

Hexachloroethane

Concen: 48.027 ug/l

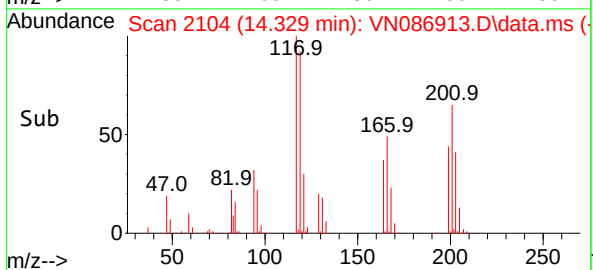
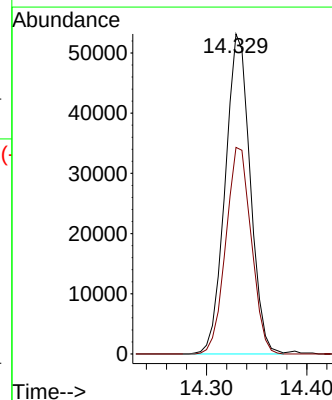
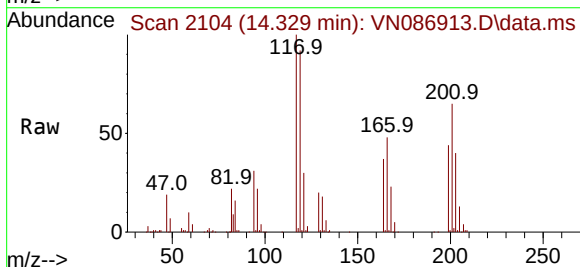
RT: 14.329 min Scan# 2104

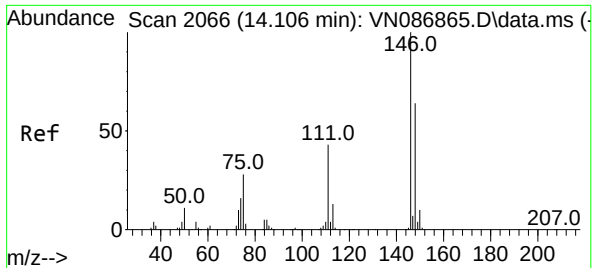
Delta R.T. -0.006 min

Lab File: VN086913.D

Acq: 10 Jun 2025 09:13

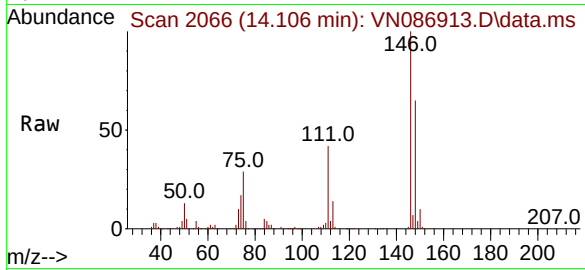
Tgt Ion:	117	Resp:	92000
Ion	Ratio	Lower	Upper
117	100		
201	65.8	33.2	99.6





#91
1,2-Dichlorobenzene
Concen: 50.816 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

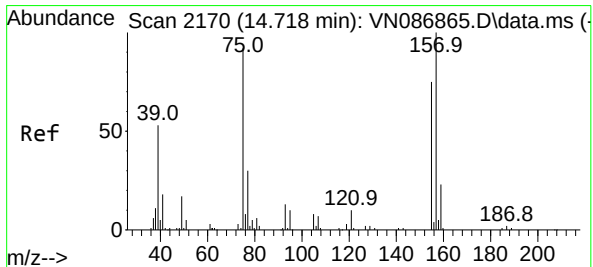
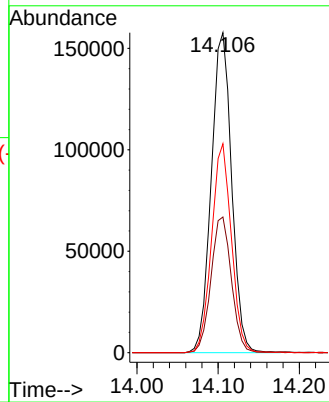
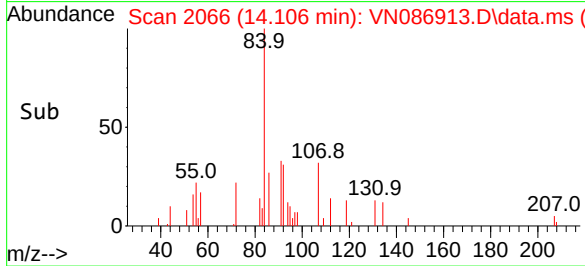
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 274399
Ion Ratio Lower Upper
146 100
111 42.7 21.6 64.6
148 63.7 31.7 95.1

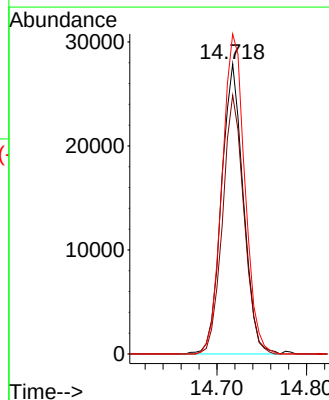
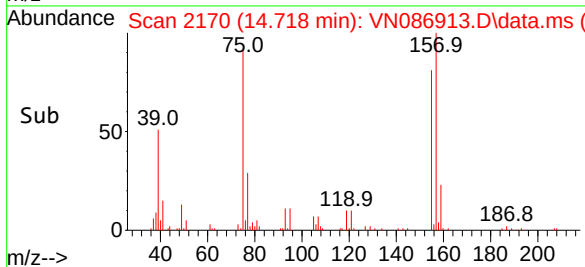
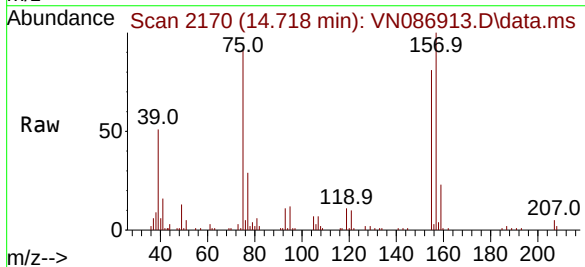
Manual Integrations
APPROVED

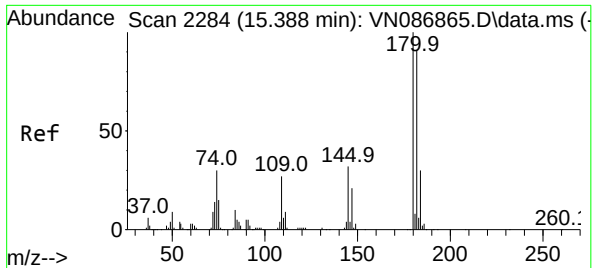
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 46.906 ug/l
RT: 14.718 min Scan# 2170
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

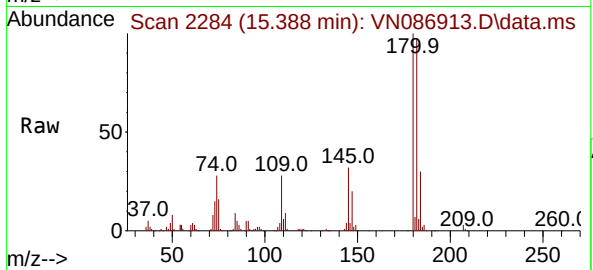
Tgt Ion: 75 Resp: 47339
Ion Ratio Lower Upper
75 100
155 87.0 41.1 123.4
157 114.2 52.7 158.1





#93
1,2,4-Trichlorobenzene
Concen: 45.529 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

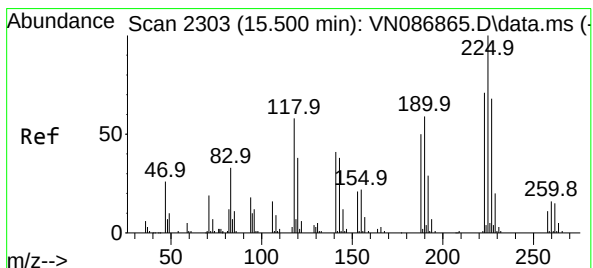
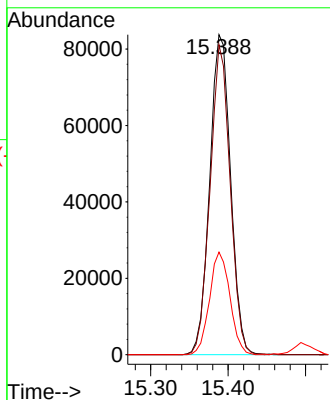
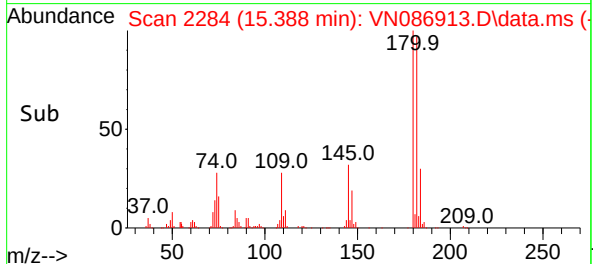
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



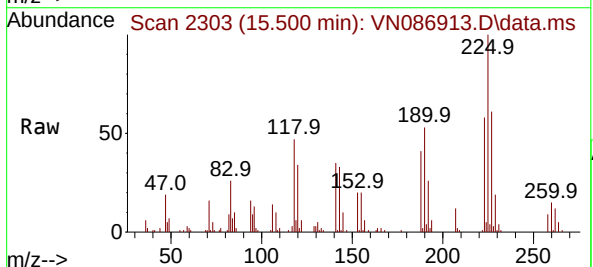
Tgt Ion:180 Resp: 15699
Ion Ratio Lower Upper
180 100
182 93.4 46.9 140.7
145 31.4 16.0 47.9

Manual Integrations
APPROVED

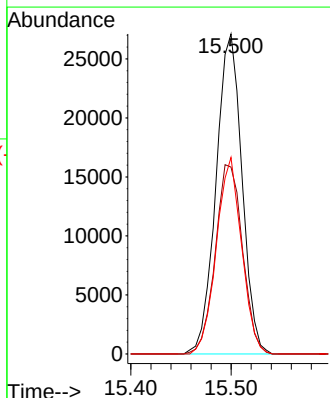
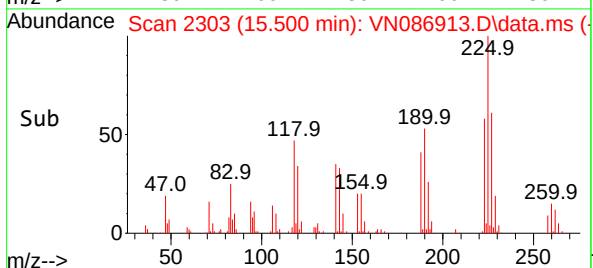
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

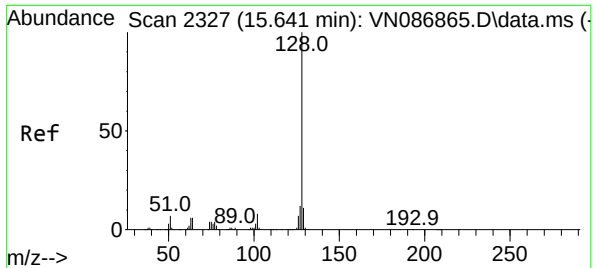


#94
Hexachlorobutadiene
Concen: 37.848 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13



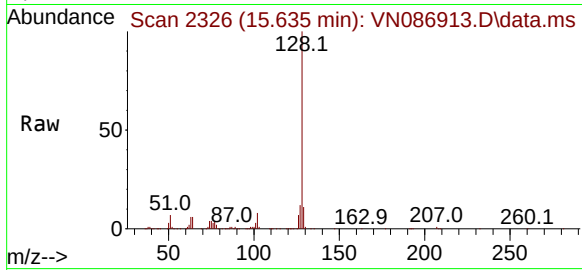
Tgt Ion:225 Resp: 48622
Ion Ratio Lower Upper
225 100
223 62.1 33.5 100.4
227 59.7 31.1 93.5





#95
Naphthalene
Concen: 48.711 ug/l
RT: 15.635 min Scan# 2327
Delta R.T. -0.006 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13

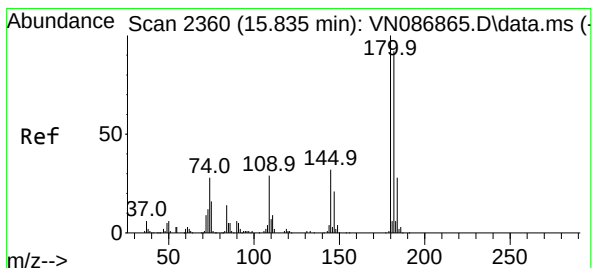
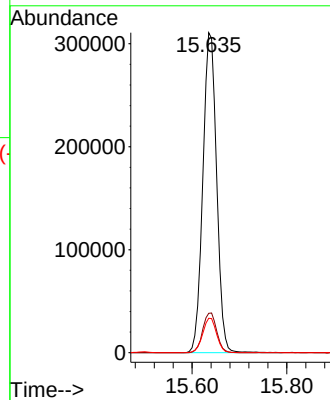
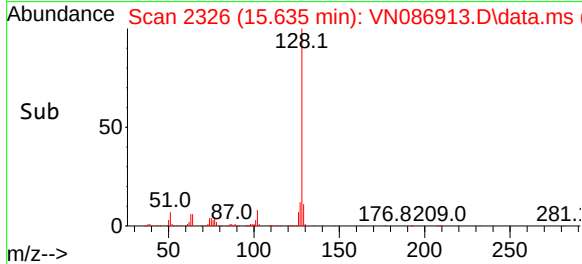
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



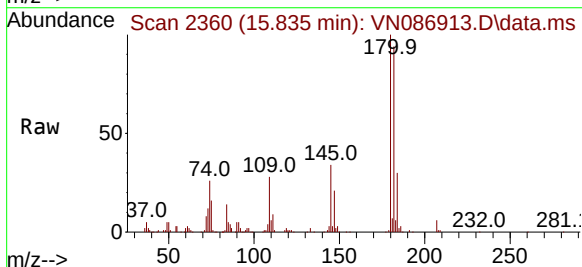
Tgt Ion:128 Resp: 625189
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.2
129 10.9 8.8 13.2

Manual Integrations
APPROVED

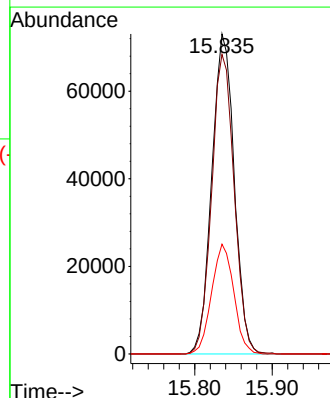
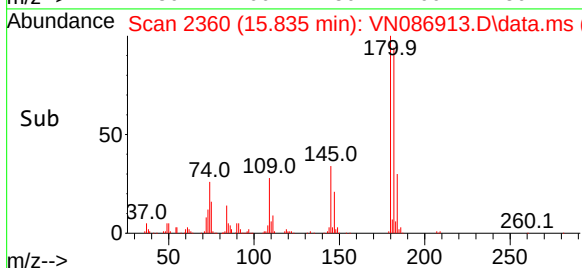
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 42.897 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. 0.000 min
Lab File: VN086913.D
Acq: 10 Jun 2025 09:13



Tgt Ion:180 Resp: 146962
Ion Ratio Lower Upper
180 100
182 93.7 47.0 141.0
145 33.9 16.6 49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086913.D
Acq On : 10 Jun 2025 09:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 11 01:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	115	0.00
2 T	Dichlorodifluoromethane	0.499	0.502	-0.6	116	0.00
3 P	Chloromethane	0.644	0.552	14.3	107	0.00
4 C	Vinyl Chloride	0.664	0.653	1.7#	118	0.00
5 T	Bromomethane	0.372	0.358	3.8	116	0.00
6 T	Chloroethane	0.429	0.421	1.9	119	0.00
7 T	Trichlorofluoromethane	0.868	0.848	2.3	118	0.00
8 T	Diethyl Ether	0.378	0.379	-0.3	121	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.545	0.530	2.8	118	0.00
10 T	Methyl Iodide	0.707	0.597	15.6	101	0.00
11 T	Tert butyl alcohol	0.182	0.148	18.7	97	-0.01
12 CM	1,1-Dichloroethene	0.557	0.548	1.6#	119	0.01
13 T	Acrolein	0.057	0.053	7.0	134	0.00
14 T	Allyl chloride	0.923	0.823	10.8	110	0.00
15 T	Acrylonitrile	0.425	0.390	8.2	111	0.00
16 T	Acetone	0.355	0.348	2.0	125	0.00
17 T	Carbon Disulfide	1.539	1.428	7.2	116	0.00
18 T	Methyl Acetate	1.035	0.941	9.1	110	0.00
19 T	Methyl tert-butyl Ether	2.015	1.999	0.8	119	0.00
20 T	Methylene Chloride	0.665	0.617	7.2	118	0.00
21 T	trans-1,2-Dichloroethene	0.619	0.587	5.2	119	0.00
22 T	Diisopropyl ether	1.945	1.836	5.6	114	0.00
23 T	Vinyl Acetate	1.644	1.558	5.2	113	0.00
24 P	1,1-Dichloroethane	1.120	1.079	3.7	117	0.00
25 T	2-Butanone	0.577	0.493	14.6	103	0.00
26 T	2,2-Dichloropropane	0.871	0.943	-8.3	120	0.00
27 T	cis-1,2-Dichloroethene	0.740	0.721	2.6	119	0.00
28 T	Bromochloromethane	0.550	0.473	14.0	117	0.00
29 T	Tetrahydrofuran	0.376	0.325	13.6	105	0.00
30 C	Chloroform	1.118	1.053	5.8#	115	0.00
31 T	Cyclohexane	1.086	0.907	16.5	104	0.00
32 T	1,1,1-Trichloroethane	0.951	0.894	6.0	115	0.00
33 S	1,2-Dichloroethane-d4	0.669	0.613	8.4	142	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	111	0.00
35 S	Dibromofluoromethane	0.296	0.301	-1.7	153#	0.00
36 T	1,1-Dichloropropene	0.442	0.437	1.1	116	0.00
37 T	Ethyl Acetate	0.562	0.522	7.1	109	0.00
38 T	Carbon Tetrachloride	0.433	0.429	0.9	117	0.00
39 T	Methylcyclohexane	0.605	0.523	13.6	102	0.00
40 TM	Benzene	1.444	1.400	3.0	116	0.00
41 T	Methacrylonitrile	0.316	0.286	9.5	105	0.00
42 TM	1,2-Dichloroethane	0.438	0.426	2.7	116	0.00
43 T	Isopropyl Acetate	0.902	0.830	8.0	109	0.00
44 TM	Trichloroethene	0.342	0.345	-0.9	118	0.00
45 C	1,2-Dichloropropane	0.351	0.344	2.0#	116	0.00
46 T	Dibromomethane	0.233	0.237	-1.7	119	0.00
47 T	Bromodichloromethane	0.480	0.479	0.2	117	0.00
48 T	Methyl methacrylate	0.415	0.379	8.7	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086913.D
Acq On : 10 Jun 2025 09:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 11 01:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	0.008	0.007	12.5	96	0.00
50 S	Toluene-d8	1.173	1.153	1.7	149	0.00
51 T	4-Methyl-2-Pentanone	0.543	0.513	5.5	106	0.00
52 CM	Toluene	0.882	0.871	1.2#	116	0.00
53 T	t-1,3-Dichloropropene	0.537	0.556	-3.5	119	0.00
54 T	cis-1,3-Dichloropropene	0.574	0.592	-3.1	120	0.00
55 T	1,1,2-Trichloroethane	0.340	0.338	0.6	117	0.00
56 T	Ethyl methacrylate	0.541	0.589	-8.9	118	0.00
57 T	1,3-Dichloropropane	0.589	0.580	1.5	115	0.00
58 T	2-Chloroethyl Vinyl ether	0.323	0.315	2.5	128	0.00
59 T	2-Hexanone	0.350	0.339	3.1	103	0.00
60 T	Dibromochloromethane	0.354	0.363	-2.5	119	0.00
61 T	1,2-Dibromoethane	0.348	0.350	-0.6	119	0.00
62 S	4-Bromofluorobenzene	0.436	0.420	3.7	144	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	109	0.00
64 T	Tetrachloroethene	0.316	0.308	2.5	114	0.00
65 PM	Chlorobenzene	1.103	1.117	-1.3	119	0.00
66 T	1,1,1,2-Tetrachloroethane	0.354	0.367	-3.7	118	0.00
67 C	Ethyl Benzene	1.899	1.844	2.9#	112	0.00
68 T	m/p-Xylenes	0.727	0.727	0.0	113	0.00
69 T	o-Xylene	0.696	0.714	-2.6	115	0.00
70 T	Styrene	1.192	1.232	-3.4	115	0.00
71 P	Bromoform	0.263	0.287	-9.1	118	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00
73 T	Isopropylbenzene	3.643	3.636	0.2	108	0.00
74 T	N-amyl acetate	1.273	1.354	-6.4	109	0.00
75 P	1,1,2,2-Tetrachloroethane	1.234	1.268	-2.8	110	0.00
76 T	1,2,3-Trichloropropane	1.189	1.069	10.1	93	0.00
77 T	Bromobenzene	0.835	0.903	-8.1	117	0.00
78 T	n-propylbenzene	4.427	4.305	2.8	104	0.00
79 T	2-Chlorotoluene	2.655	2.594	2.3	106	0.00
80 T	1,3,5-Trimethylbenzene	3.007	2.957	1.7	104	0.00
81 T	trans-1,4-Dichloro-2-butene	0.516	0.537	-4.1	115	0.00
82 T	4-Chlorotoluene	2.686	2.709	-0.9	109	0.00
83 T	tert-Butylbenzene	2.753	2.579	6.3	101	0.00
84 T	1,2,4-Trimethylbenzene	3.016	2.981	1.2	104	0.00
85 T	sec-Butylbenzene	3.998	3.683	7.9	98	0.00
86 T	p-Isopropyltoluene	3.305	3.131	5.3	100	0.00
87 T	1,3-Dichlorobenzene	1.644	1.678	-2.1	110	0.00
88 T	1,4-Dichlorobenzene	1.676	1.702	-1.6	110	0.00
89 T	n-Butylbenzene	3.201	2.841	11.2	95	0.00
90 T	Hexachloroethane	0.560	0.538	3.9	102	0.00
91 T	1,2-Dichlorobenzene	1.579	1.605	-1.6	109	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.295	0.277	6.1	104	0.00
93 T	1,2,4-Trichlorobenzene	1.008	0.918	8.9	97	0.00
94 T	Hexachlorobutadiene	0.376	0.284	24.5	80	0.00
95 T	Naphthalene	3.753	3.656	2.6	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086913.D
Acq On : 10 Jun 2025 09:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 11 01:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	0.859	14.3	92	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086913.D
Acq On : 10 Jun 2025 09:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 11 01:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	115	0.00
2 T	Dichlorodifluoromethane	50.000	50.345	-0.7	116	0.00
3 P	Chloromethane	50.000	42.845	14.3	107	0.00
4 C	Vinyl Chloride	50.000	49.190	1.6#	118	0.00
5 T	Bromomethane	50.000	48.104	3.8	116	0.00
6 T	Chloroethane	50.000	49.111	1.8	119	0.00
7 T	Trichlorofluoromethane	50.000	48.882	2.2	118	0.00
8 T	Diethyl Ether	50.000	50.181	-0.4	121	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.583	2.8	118	0.00
10 T	Methyl Iodide	50.000	42.239	15.5	101	0.00
11 T	Tert butyl alcohol	250.000	203.929	18.4	97	-0.01
12 CM	1,1-Dichloroethene	50.000	49.200	1.6#	119	0.01
13 T	Acrolein	250.000	229.021	8.4	134	0.00
14 T	Allyl chloride	50.000	44.573	10.9	110	0.00
15 T	Acrylonitrile	250.000	229.750	8.1	111	0.00
16 T	Acetone	250.000	245.204	1.9	125	0.00
17 T	Carbon Disulfide	50.000	46.386	7.2	116	0.00
18 T	Methyl Acetate	50.000	45.497	9.0	110	0.00
19 T	Methyl tert-butyl Ether	50.000	49.605	0.8	119	0.00
20 T	Methylene Chloride	50.000	46.410	7.2	118	0.00
21 T	trans-1,2-Dichloroethene	50.000	47.370	5.3	119	0.00
22 T	Diisopropyl ether	50.000	47.178	5.6	114	0.00
23 T	Vinyl Acetate	250.000	236.925	5.2	113	0.00
24 P	1,1-Dichloroethane	50.000	48.190	3.6	117	0.00
25 T	2-Butanone	250.000	213.617	14.6	103	0.00
26 T	2,2-Dichloropropane	50.000	54.150	-8.3	120	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.666	2.7	119	0.00
28 T	Bromochloromethane	50.000	42.951	14.1	117	0.00
29 T	Tetrahydrofuran	250.000	216.165	13.5	105	0.00
30 C	Chloroform	50.000	47.097	5.8#	115	0.00
31 T	Cyclohexane	50.000	41.767	16.5	104	0.00
32 T	1,1,1-Trichloroethane	50.000	47.016	6.0	115	0.00
33 S	1,2-Dichloroethane-d4	50.000	45.789	8.4	142	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	111	0.00
35 S	Dibromofluoromethane	50.000	50.869	-1.7	153	0.00
36 T	1,1-Dichloropropene	50.000	49.463	1.1	116	0.00
37 T	Ethyl Acetate	50.000	46.471	7.1	109	0.00
38 T	Carbon Tetrachloride	50.000	49.466	1.1	117	0.00
39 T	Methylcyclohexane	50.000	43.269	13.5	102	0.00
40 TM	Benzene	50.000	48.493	3.0	116	0.00
41 T	Methacrylonitrile	50.000	45.256	9.5	105	0.00
42 TM	1,2-Dichloroethane	50.000	48.671	2.7	116	0.00
43 T	Isopropyl Acetate	50.000	45.998	8.0	109	0.00
44 TM	Trichloroethene	50.000	50.404	-0.8	118	0.00
45 C	1,2-Dichloropropane	50.000	49.004	2.0#	116	0.00
46 T	Dibromomethane	50.000	50.766	-1.5	119	0.00
47 T	Bromodichloromethane	50.000	49.918	0.2	117	0.00
48 T	Methyl methacrylate	50.000	45.601	8.8	107	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086913.D
Acq On : 10 Jun 2025 09:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 11 01:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	892.983	10.7	96	0.00
50 S	Toluene-d8	50.000	49.146	1.7	149	0.00
51 T	4-Methyl-2-Pentanone	250.000	235.975	5.6	106	0.00
52 CM	Toluene	50.000	49.345	1.3#	116	0.00
53 T	t-1,3-Dichloropropene	50.000	51.759	-3.5	119	0.00
54 T	cis-1,3-Dichloropropene	50.000	51.506	-3.0	120	0.00
55 T	1,1,2-Trichloroethane	50.000	49.785	0.4	117	0.00
56 T	Ethyl methacrylate	50.000	54.447	-8.9	118	0.00
57 T	1,3-Dichloropropane	50.000	49.255	1.5	115	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	244.474	2.2	128	0.00
59 T	2-Hexanone	250.000	242.131	3.1	103	0.00
60 T	Dibromochloromethane	50.000	51.366	-2.7	119	0.00
61 T	1,2-Dibromoethane	50.000	50.307	-0.6	119	0.00
62 S	4-Bromofluorobenzene	50.000	48.131	3.7	144	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	109	0.00
64 T	Tetrachloroethene	50.000	48.675	2.7	114	0.00
65 PM	Chlorobenzene	50.000	50.661	-1.3	119	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	51.699	-3.4	118	0.00
67 C	Ethyl Benzene	50.000	48.548	2.9#	112	0.00
68 T	m/p-Xylenes	100.000	99.975	0.0	113	0.00
69 T	o-Xylene	50.000	51.297	-2.6	115	0.00
70 T	Styrene	50.000	51.704	-3.4	115	0.00
71 P	Bromoform	50.000	54.693	-9.4	118	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	102	0.00
73 T	Isopropylbenzene	50.000	49.917	0.2	108	0.00
74 T	N-ethyl acetate	50.000	53.204	-6.4	109	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	51.363	-2.7	110	0.00
76 T	1,2,3-Trichloropropane	50.000	44.986	10.0	93	0.00
77 T	Bromobenzene	50.000	54.054	-8.1	117	0.00
78 T	n-propylbenzene	50.000	48.621	2.8	104	0.00
79 T	2-Chlorotoluene	50.000	48.865	2.3	106	0.00
80 T	1,3,5-Trimethylbenzene	50.000	49.161	1.7	104	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.029	-4.1	115	0.00
82 T	4-Chlorotoluene	50.000	50.423	-0.8	109	0.00
83 T	tert-Butylbenzene	50.000	46.840	6.3	101	0.00
84 T	1,2,4-Trimethylbenzene	50.000	49.422	1.2	104	0.00
85 T	sec-Butylbenzene	50.000	46.060	7.9	98	0.00
86 T	p-Isopropyltoluene	50.000	47.367	5.3	100	0.00
87 T	1,3-Dichlorobenzene	50.000	51.039	-2.1	110	0.00
88 T	1,4-Dichlorobenzene	50.000	50.774	-1.5	110	0.00
89 T	n-Butylbenzene	50.000	44.380	11.2	95	0.00
90 T	Hexachloroethane	50.000	48.027	3.9	102	0.00
91 T	1,2-Dichlorobenzene	50.000	50.816	-1.6	109	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	46.906	6.2	104	0.00
93 T	1,2,4-Trichlorobenzene	50.000	45.529	8.9	97	0.00
94 T	Hexachlorobutadiene	50.000	37.848	24.3	80	0.00
95 T	Naphthalene	50.000	48.711	2.6	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086913.D
Acq On : 10 Jun 2025 09:13
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 11 01:47:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	42.897	14.2	92	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: JAC005
 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG No.: Q2250
 Instrument ID: MSVOA_N Calibration Date/Time: 06/11/2025 11:32
 Lab File ID: VN086940.D Init. Calib. Date(s): 06/06/2025 06/06/2025
 Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49
 GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.664	0.701		5.57	20
1,1-Dichloroethene	0.557	0.593		6.46	20
1,1-Dichloroethane	1.120	1.178	0.1	5.18	20
cis-1,2-Dichloroethene	0.740	0.793		7.16	20
1,1,1-Trichloroethane	0.951	0.976		2.63	20
Benzene	1.444	1.554		7.55	20
1,2-Dichloroethane	0.438	0.472		7.76	20
Trichloroethene	0.342	0.382		11.7	20
1,1,2-Trichloroethane	0.340	0.383		12.65	20
Tetrachloroethene	0.316	0.337		6.65	20
1,2-Dichloroethane-d4	0.669	0.622		-7.03	20
Dibromofluoromethane	0.296	0.309		4.39	20
Toluene-d8	1.173	1.181		0.68	20
4-Bromofluorobenzene	0.436	0.440		0.92	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_N\Data\VN061125\
 Data File : VN086940.D
 Acq On : 11 Jun 2025 11:32
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/12/2025
 Supervised By :Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:28:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	205098	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	357643	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	312173	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	152136	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	127629	46.478	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 92.960%			
35) Dibromofluoromethane	8.177	113	110532	52.151	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.300%			
50) Toluene-d8	10.565	98	422391	50.342	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.680%			
62) 4-Bromofluorobenzene	12.847	95	157388	50.489	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.980%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.154	85	110255	53.916	ug/l	100
3) Chloromethane	2.395	50	113731	43.069	ug/l	94
4) Vinyl Chloride	2.554	62	143755	52.773	ug/l	99
5) Bromomethane	2.989	94	63914	41.928	ug/l	96
6) Chloroethane	3.154	64	93702	53.253	ug/l	99
7) Trichlorofluoromethane	3.524	101	190657	53.570	ug/l	99
8) Diethyl Ether	3.983	74	85722	55.281	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.401	101	119322	53.364	ug/l	99
10) Methyl Iodide	4.618	142	115825	39.959	ug/l	97
11) Tert butyl alcohol	5.542	59	183049	245.667	ug/l	99
12) 1,1-Dichloroethene	4.365	96	121690	53.307	ug/l	94
13) Acrolein	4.201	56	68006	288.340	ug/l	99
14) Allyl chloride	5.048	41	187099	49.420	ug/l	96
15) Acrylonitrile	5.736	53	456903	262.349	ug/l	99
16) Acetone	4.442	43	393802	270.423	ug/l	97
17) Carbon Disulfide	4.736	76	308706	48.889	ug/l	100
18) Methyl Acetate	5.042	43	222452	52.419	ug/l	98
19) Methyl tert-butyl Ether	5.812	73	445459	53.894	ug/l	98
20) Methylene Chloride	5.295	84	138117	50.660	ug/l	95
21) trans-1,2-Dichloroethene	5.806	96	129921	51.154	ug/l	98
22) Diisopropyl ether	6.683	45	412097	51.639	ug/l	99
23) Vinyl Acetate	6.618	43	1766271	261.960	ug/l	98
24) 1,1-Dichloroethane	6.589	63	241575	52.602	ug/l	99
25) 2-Butanone	7.489	43	582343	246.018	ug/l	95
26) 2,2-Dichloropropane	7.506	77	215080	60.206	ug/l	99
27) cis-1,2-Dichloroethene	7.500	96	162658	53.551	ug/l	98
28) Bromochloromethane	7.824	49	118461	52.462	ug/l	95
29) Tetrahydrofuran	7.847	42	380103	246.502	ug/l	96
30) Chloroform	7.977	83	241191	52.589	ug/l	98
31) Cyclohexane	8.265	56	208644	46.846	ug/l	97
32) 1,1,1-Trichloroethane	8.177	97	200139	51.307	ug/l	97
36) 1,1-Dichloropropene	8.377	75	172642	54.664	ug/l	99
37) Ethyl Acetate	7.571	43	211755	52.670	ug/l	99
38) Carbon Tetrachloride	8.371	117	168940	54.485	ug/l	94
39) Methylcyclohexane	9.606	83	206018	47.613	ug/l	96
40) Benzene	8.612	78	555597	53.798	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086940.D
 Acq On : 11 Jun 2025 11:32
 Operator : JC\MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:28:53 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M

Quant Title : SW846 8260

QLast Update : Sat Jun 07 02:12:50 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.789	41	115191	51.017	ug/l	93
42) 1,2-Dichloroethane	8.677	62	168630	53.833	ug/l	99
43) Isopropyl Acetate	8.694	43	338399	52.442	ug/l	97
44) Trichloroethene	9.353	130	136748	55.842	ug/l	98
45) 1,2-Dichloropropane	9.624	63	137250	54.626	ug/l	100
46) Dibromomethane	9.712	93	94620	56.697	ug/l	99
47) Bromodichloromethane	9.888	83	190362	55.440	ug/l	100
48) Methyl methacrylate	9.683	41	154138	51.898	ug/l	96
49) 1,4-Dioxane	9.700	88	60969	1128.409	ug/l #	96
51) 4-Methyl-2-Pentanone	10.447	43	1054797	271.529	ug/l	98
52) Toluene	10.630	92	349873	55.435	ug/l	98
53) t-1,3-Dichloropropene	10.835	75	217752	56.714	ug/l	100
54) cis-1,3-Dichloropropene	10.312	75	236296	57.518	ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	137099	56.454	ug/l	99
56) Ethyl methacrylate	10.877	69	231226	59.778	ug/l	95
57) 1,3-Dichloropropane	11.165	76	232746	55.247	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.159	63	665780	288.579	ug/l	99
59) 2-Hexanone	11.200	43	705660	282.011	ug/l	97
60) Dibromochloromethane	11.359	129	148069	58.520	ug/l	99
61) 1,2-Dibromoethane	11.471	107	137779	55.351	ug/l	99
64) Tetrachloroethene	11.106	164	105084	53.190	ug/l	95
65) Chlorobenzene	11.888	112	381598	55.424	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.959	131	124964	56.463	ug/l	99
67) Ethyl Benzene	11.965	91	642857	54.206	ug/l	99
68) m/p-Xylenes	12.071	106	500895	110.334	ug/l	99
69) o-Xylene	12.400	106	244038	56.127	ug/l	98
70) Styrene	12.412	104	424060	56.996	ug/l	100
71) Bromoform	12.576	173	99616	60.747	ug/l #	100
73) Isopropylbenzene	12.694	105	593080	53.511	ug/l	99
74) N-amyl acetate	12.512	43	208229	53.765	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.935	83	213329	56.816	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	179987m	49.771	ug/l	
77) Bromobenzene	12.976	156	146181	57.512	ug/l	98
78) n-propylbenzene	13.035	91	717012	53.234	ug/l	99
79) 2-Chlorotoluene	13.123	91	439522	54.413	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	490727	53.628	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.735	75	93790	59.701	ug/l #	87
82) 4-Chlorotoluene	13.218	91	446237	54.598	ug/l	99
83) tert-Butylbenzene	13.435	119	448106	53.498	ug/l	97
84) 1,2,4-Trimethylbenzene	13.482	105	495936	54.048	ug/l	99
85) sec-Butylbenzene	13.612	105	617792	50.788	ug/l	99
86) p-Isopropyltoluene	13.729	119	524440	52.156	ug/l	98
87) 1,3-Dichlorobenzene	13.729	146	280357	56.062	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	287122	56.315	ug/l	99
89) n-Butylbenzene	14.053	91	477306	49.007	ug/l	100
90) Hexachloroethane	14.329	117	89886	52.738	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	267932	55.766	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	47326	52.704	ug/l	92
93) 1,2,4-Trichlorobenzene	15.388	180	160030	52.161	ug/l	99
94) Hexachlorobutadiene	15.500	225	51073	44.682	ug/l	99
95) Naphthalene	15.635	128	624421	54.679	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	151411	49.672	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086940.D
Acq On : 11 Jun 2025 11:32
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:28:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

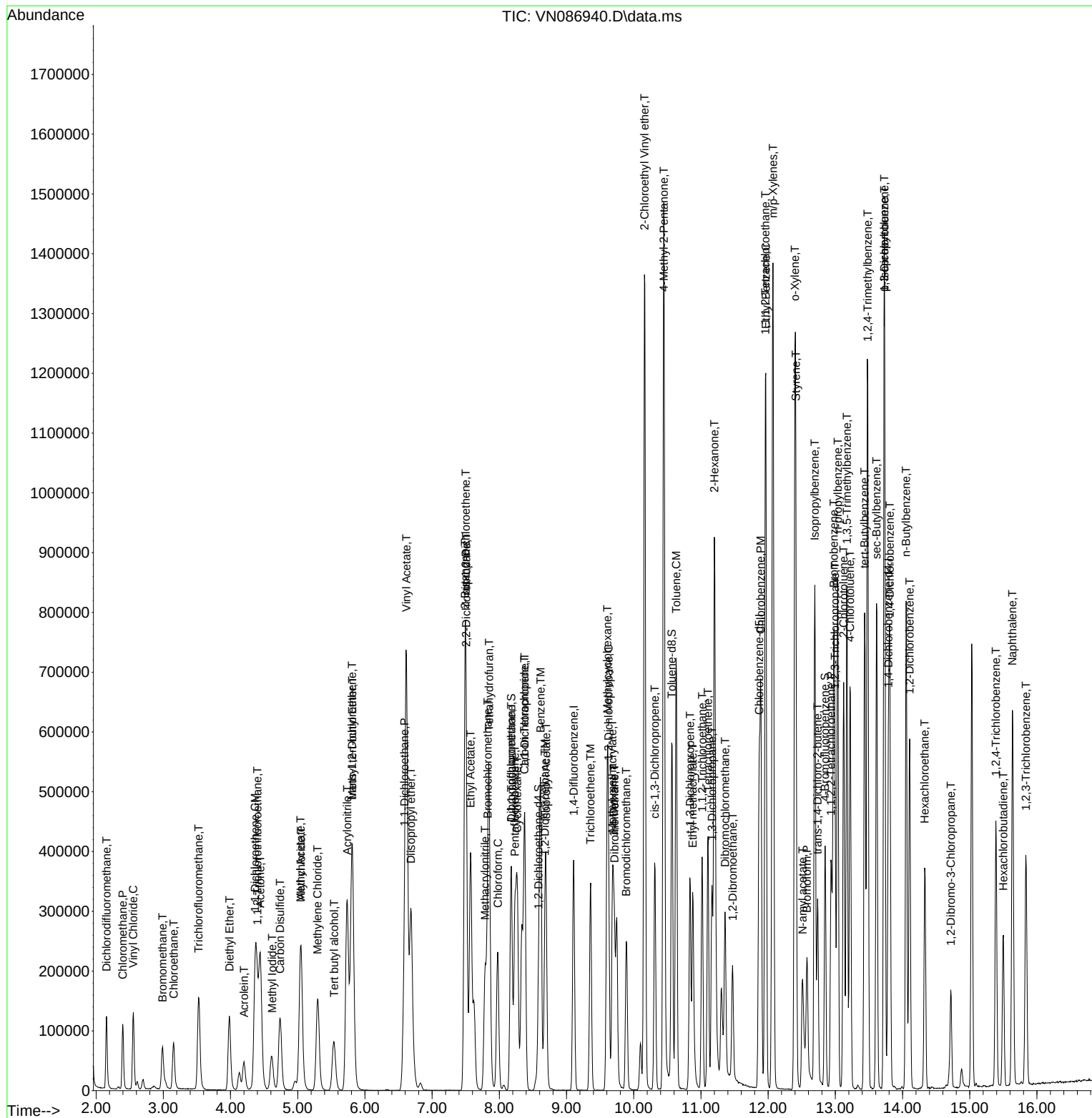
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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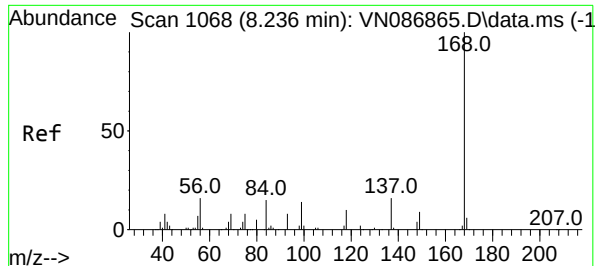
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025





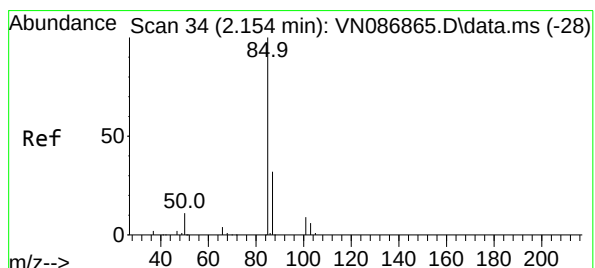
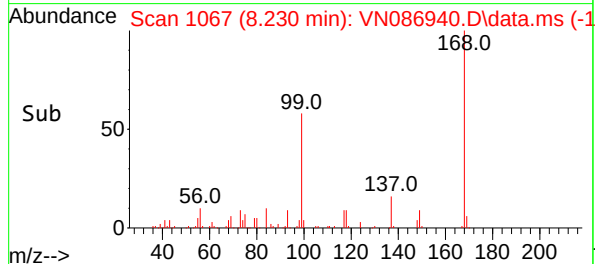
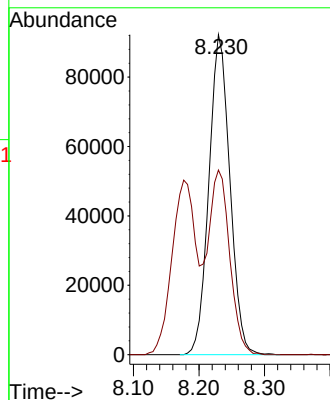
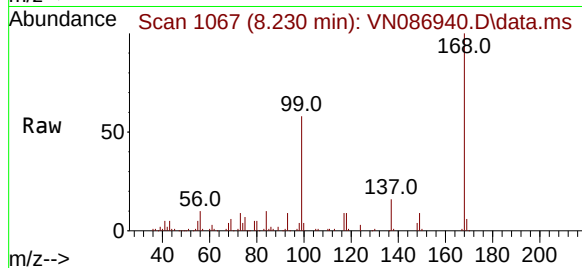
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 205098
Ion Ratio Lower Upper
168 100
99 57.7 49.1 73.7

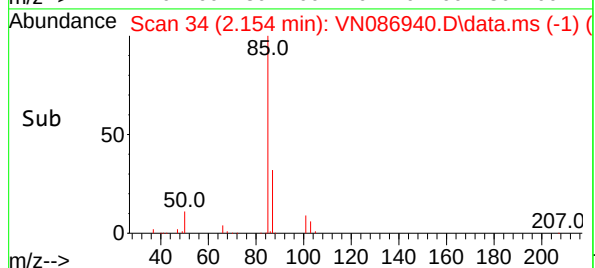
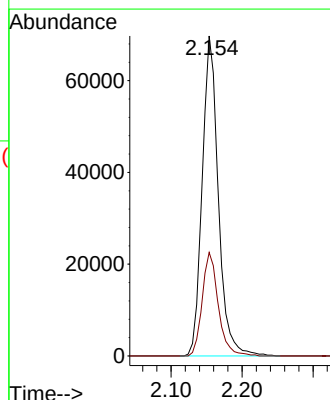
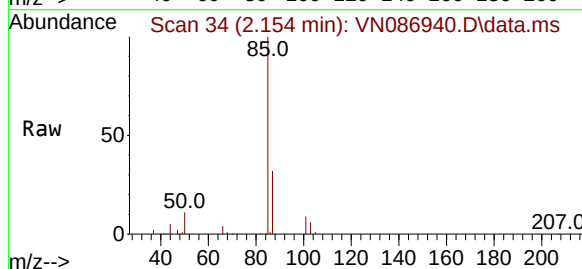
Manual Integrations
APPROVED

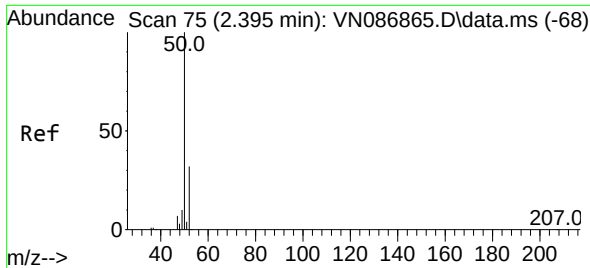
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#2
Dichlorodifluoromethane
Concen: 53.916 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

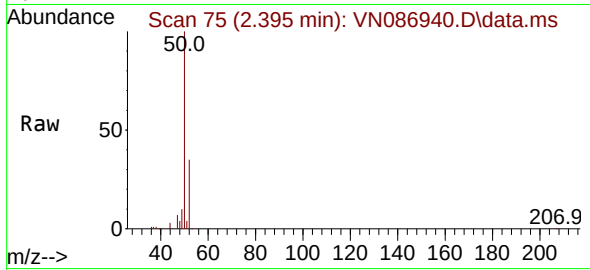
Tgt Ion: 85 Resp: 110255
Ion Ratio Lower Upper
85 100
87 32.4 16.2 48.6





#3
Chloromethane
Concen: 43.069 ug/l
RT: 2.395 min Scan# 75
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

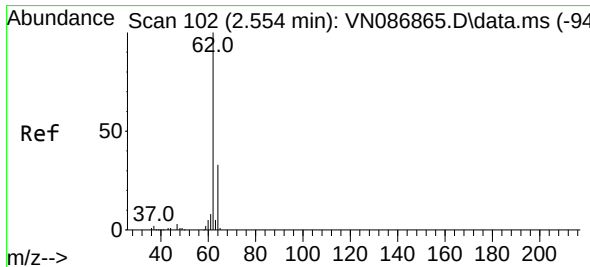
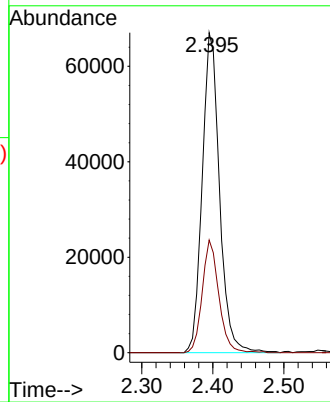
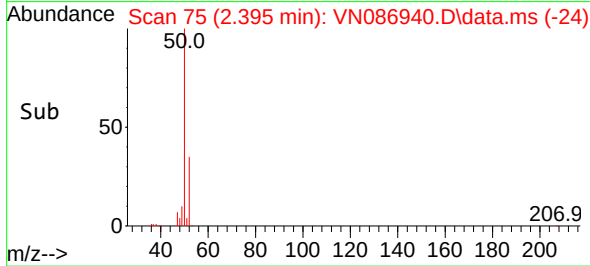
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



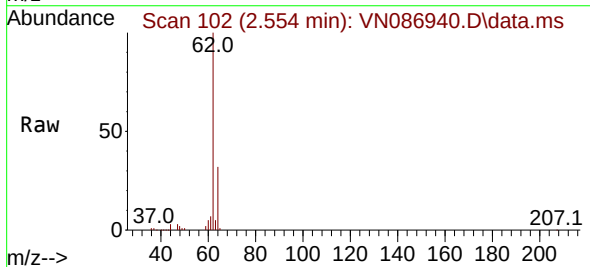
Tgt Ion: 50 Resp: 11373
Ion Ratio Lower Upper
50 100
52 35.2 25.7 38.5

Manual Integrations
APPROVED

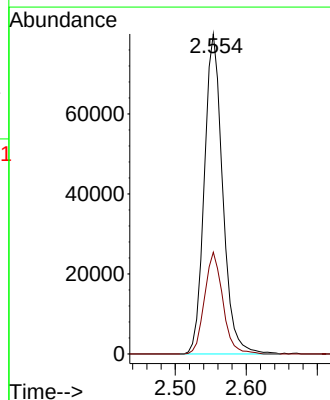
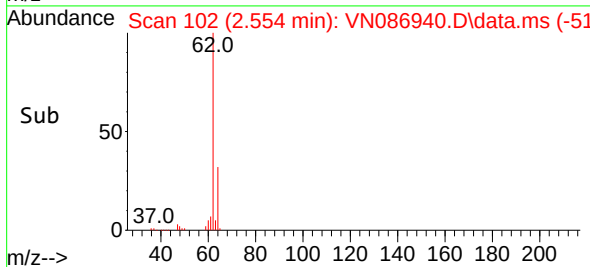
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

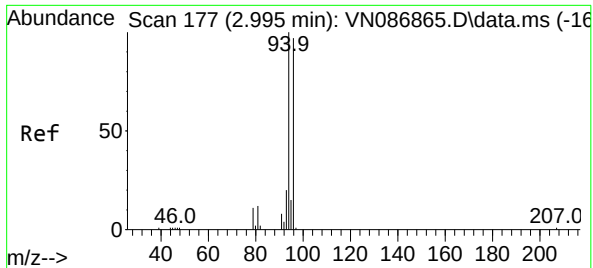


#4
Vinyl Chloride
Concen: 52.773 ug/l
RT: 2.554 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32



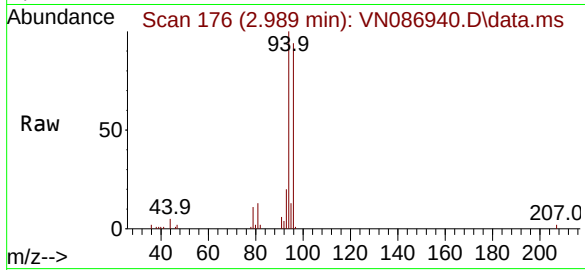
Tgt Ion: 62 Resp: 143755
Ion Ratio Lower Upper
62 100
64 31.8 26.0 39.0





#5
Bromomethane
Concen: 41.928 ug/l
RT: 2.989 min Scan# 176
Delta R.T. -0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

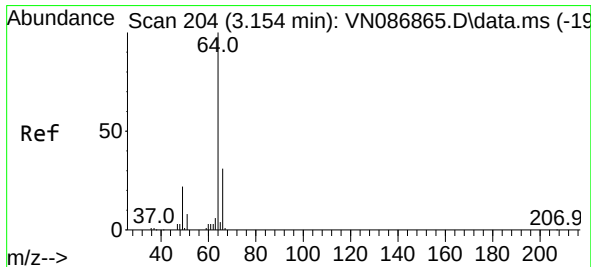
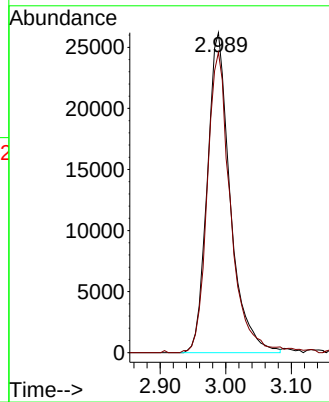
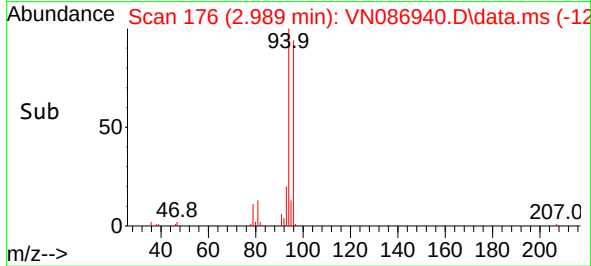
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 94 Resp: 63914
Ion Ratio Lower Upper
94 100
96 93.9 77.9 116.9

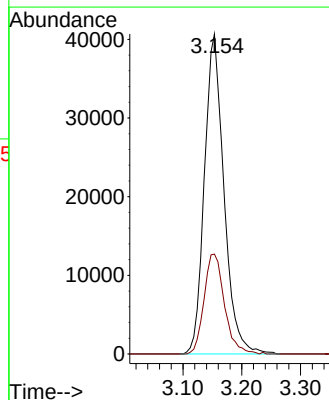
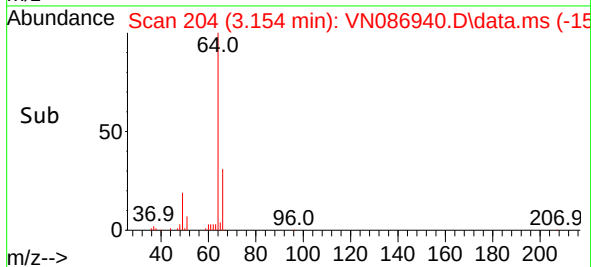
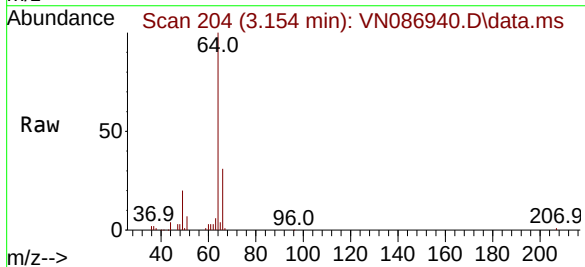
Manual Integrations
APPROVED

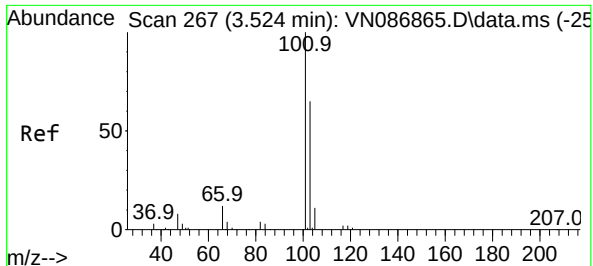
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#6
Chloroethane
Concen: 53.253 ug/l
RT: 3.154 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

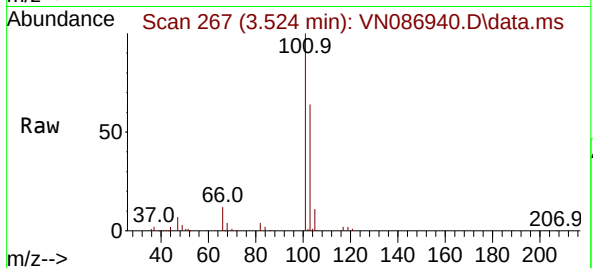
Tgt Ion: 64 Resp: 93702
Ion Ratio Lower Upper
64 100
66 31.2 24.6 36.8





#7
Trichlorofluoromethane
Concen: 53.570 ug/l
RT: 3.524 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

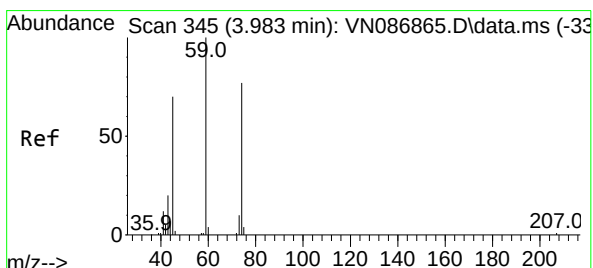
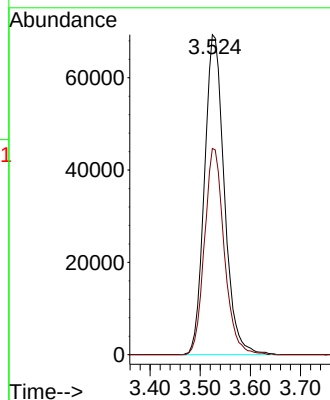
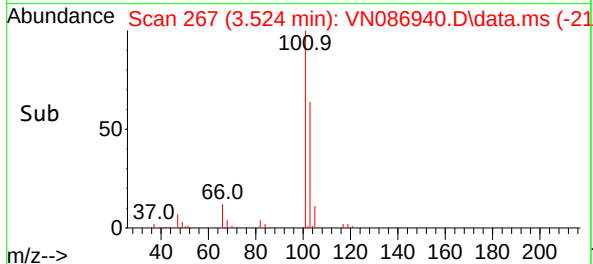
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:101 Resp: 19065
Ion Ratio Lower Upper
101 100
103 64.5 52.2 78.2

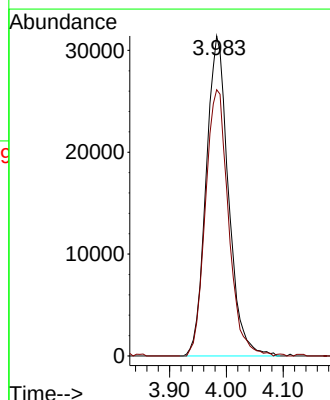
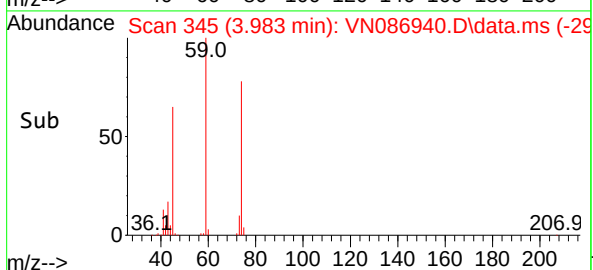
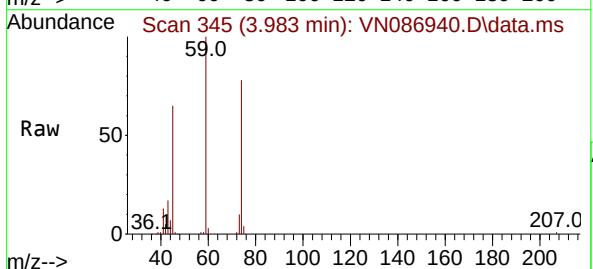
Manual Integrations
APPROVED

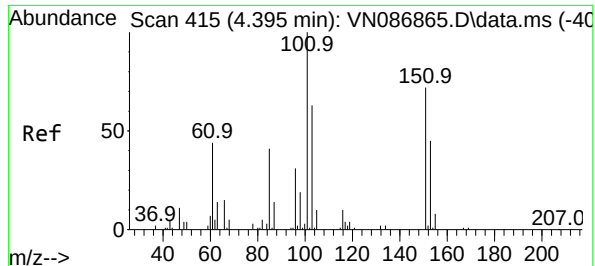
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#8
Diethyl Ether
Concen: 55.281 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Tgt Ion: 74 Resp: 85722
Ion Ratio Lower Upper
74 100
45 85.9 45.5 136.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 53.364 ug/l

RT: 4.401 min Scan# 415

Delta R.T. 0.006 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:101 Resp: 11932

Ion Ratio Lower Upper

101 100

85 42.3 33.8 50.8

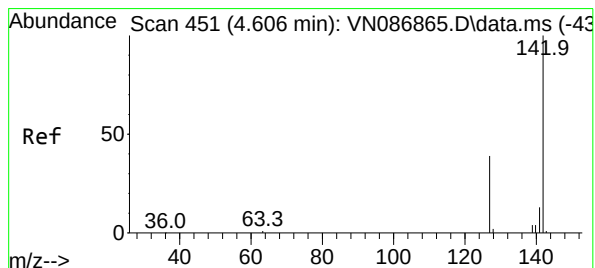
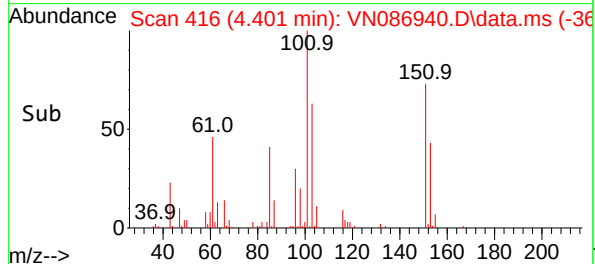
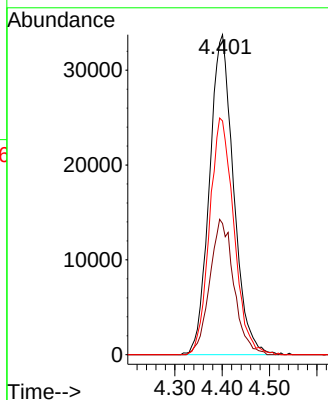
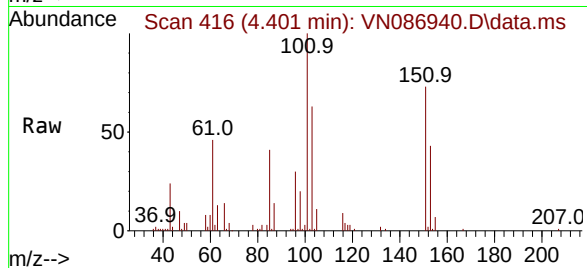
151 74.7 58.7 88.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#10

Methyl Iodide

Concen: 39.959 ug/l

RT: 4.618 min Scan# 453

Delta R.T. 0.012 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

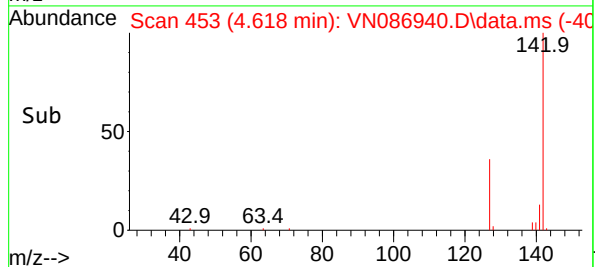
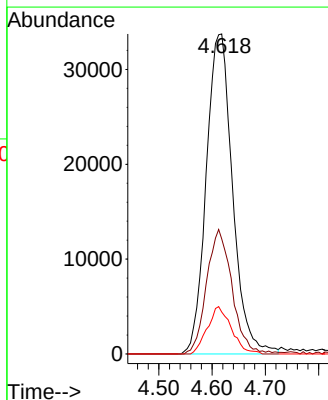
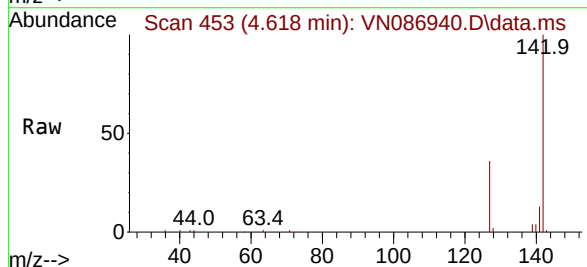
Tgt Ion:142 Resp: 115825

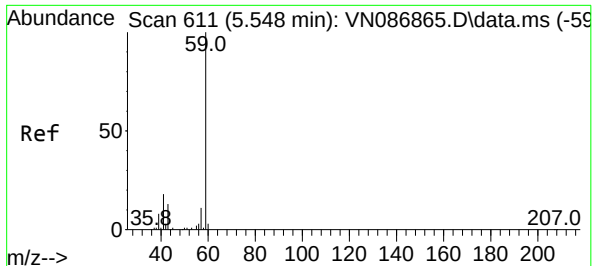
Ion Ratio Lower Upper

142 100

127 36.0 30.9 46.3

141 13.1 10.4 15.6





#11

Tert butyl alcohol

Concen: 245.667 ug/l

RT: 5.542 min Scan# 611

Delta R.T. -0.006 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 183049

Ion Ratio Lower Upper

59 100

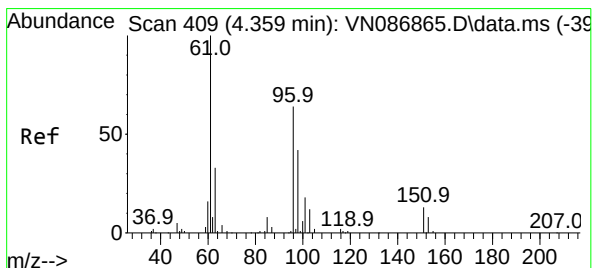
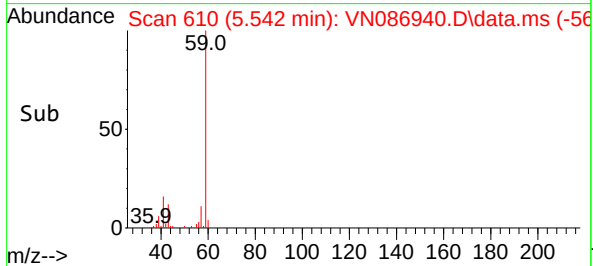
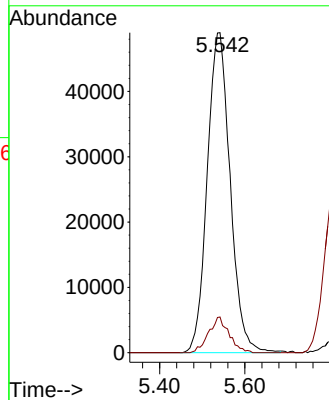
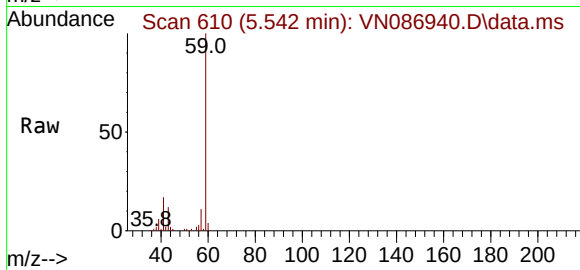
57 9.9 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#12

1,1-Dichloroethene

Concen: 53.307 ug/l

RT: 4.365 min Scan# 410

Delta R.T. 0.006 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

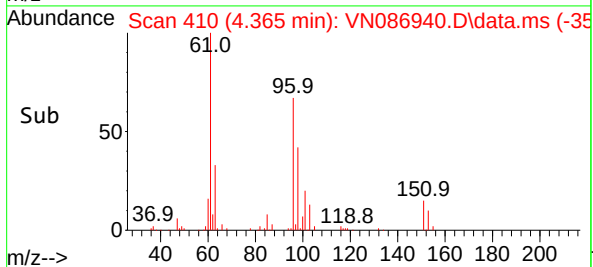
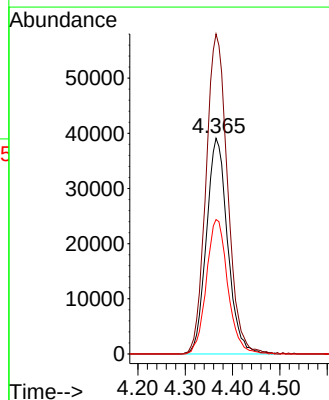
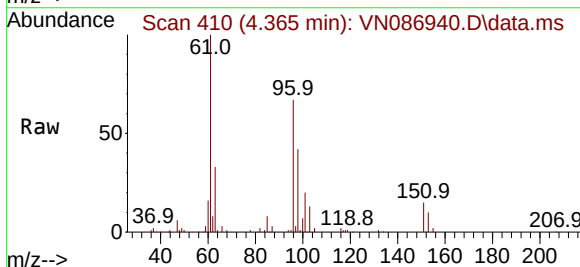
Tgt Ion: 96 Resp: 121690

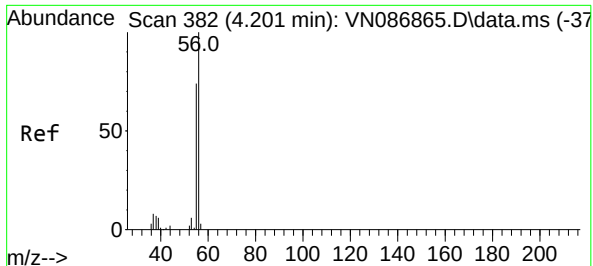
Ion Ratio Lower Upper

96 100

61 148.3 125.8 188.6

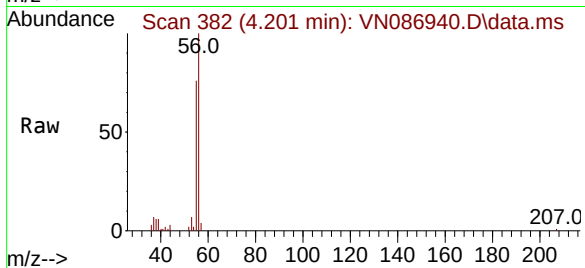
98 62.3 52.5 78.7





#13
Acrolein
Concen: 288.340 ug/l
RT: 4.201 min Scan# 382
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

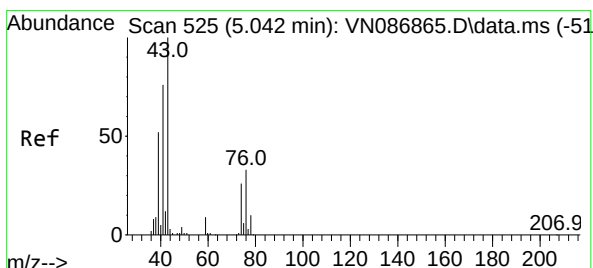
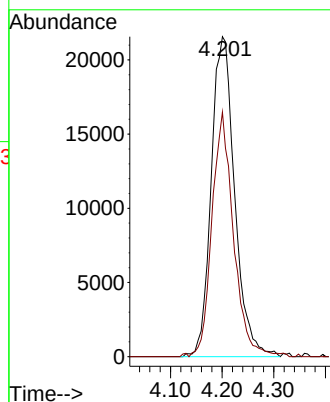
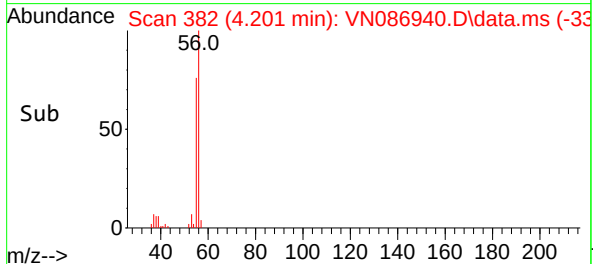
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



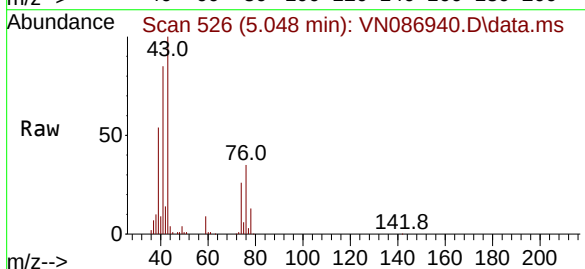
Tgt Ion: 56 Resp: 68000
Ion Ratio Lower Upper
56 100
55 70.2 55.6 83.4

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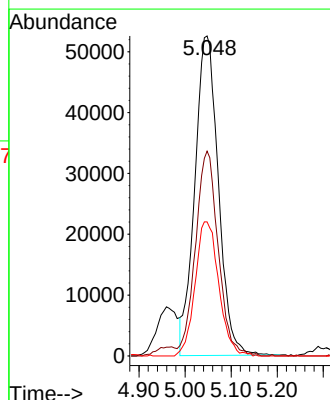
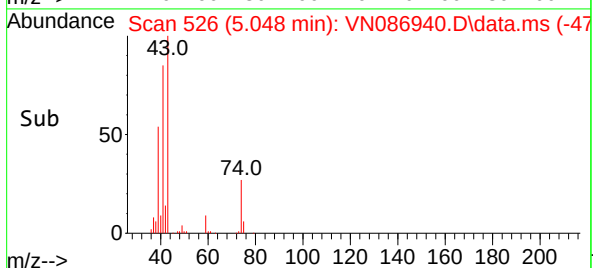
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

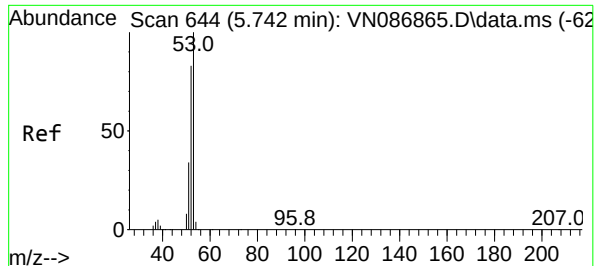


#14
Allyl chloride
Concen: 49.420 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32



Tgt Ion: 41 Resp: 187099
Ion Ratio Lower Upper
41 100
39 62.0 51.3 76.9
76 42.2 31.4 47.0





#15

Acrylonitrile

Concen: 262.349 ug/l

RT: 5.736 min Scan# 644

Delta R.T. -0.006 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 53 Resp: 45690

Ion Ratio Lower Upper

53 100

52 80.2 65.0 97.6

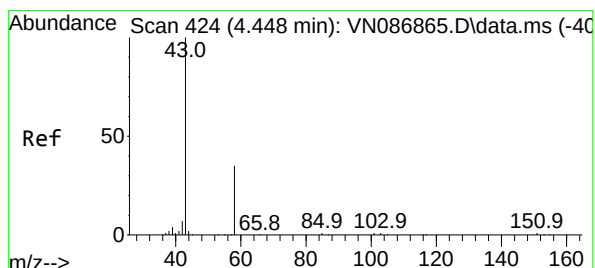
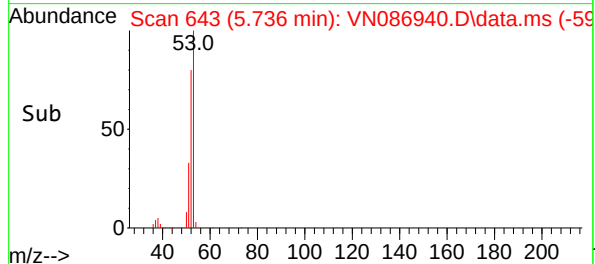
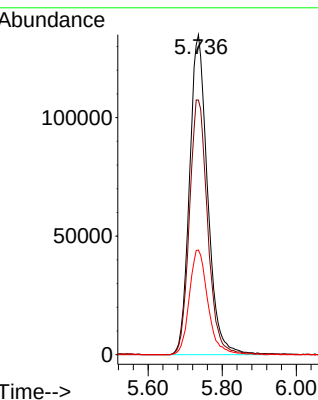
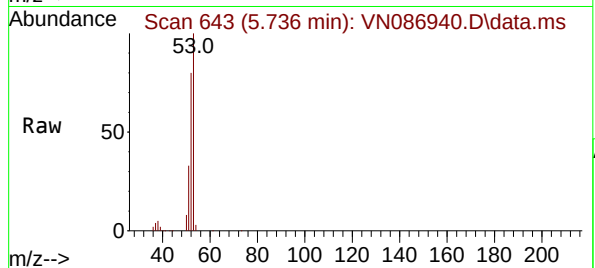
51 33.6 27.2 40.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#16

Acetone

Concen: 270.423 ug/l

RT: 4.442 min Scan# 423

Delta R.T. -0.006 min

Lab File: VN086940.D

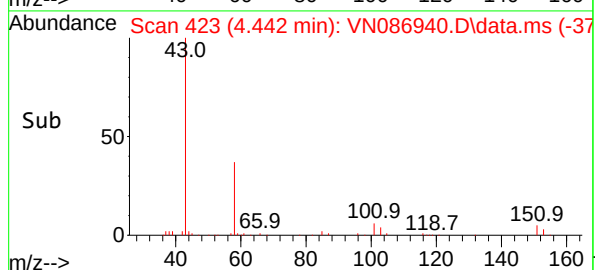
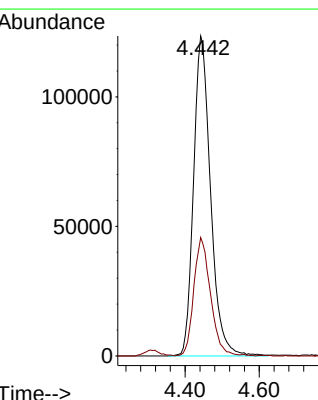
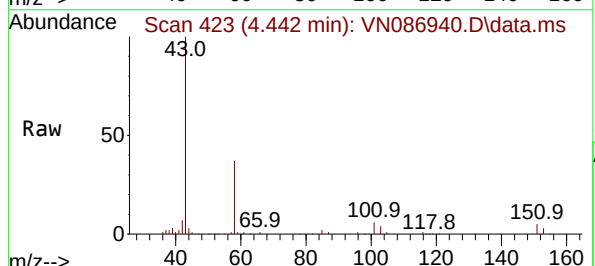
Acq: 11 Jun 2025 11:32

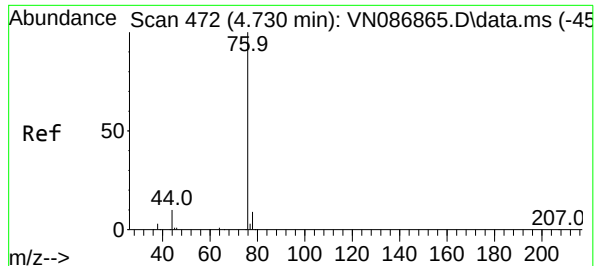
Tgt Ion: 43 Resp: 393802

Ion Ratio Lower Upper

43 100

58 36.9 28.0 42.0





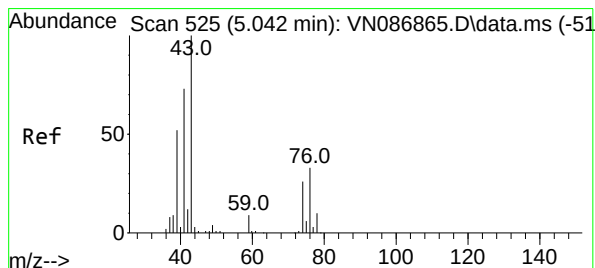
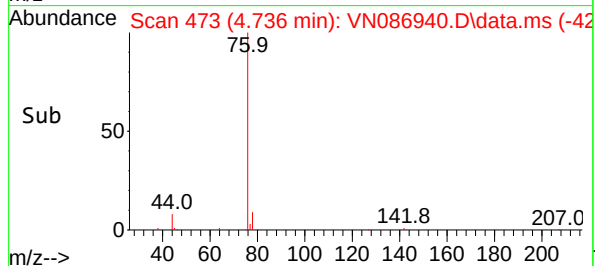
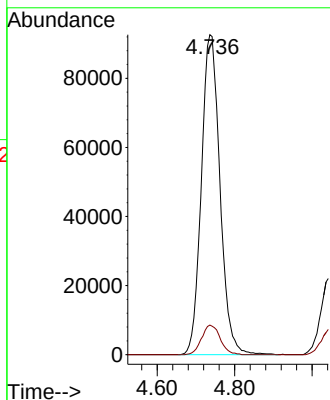
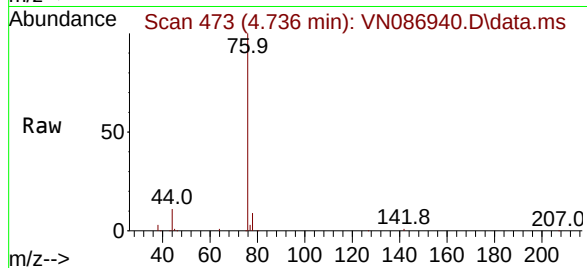
#17
Carbon Disulfide
Concen: 48.889 ug/l
RT: 4.736 min Scan# 472
Delta R.T. 0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 308700
Ion Ratio Lower Upper
76 100
78 9.2 7.3 10.9

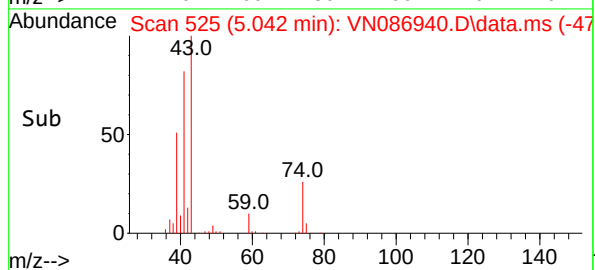
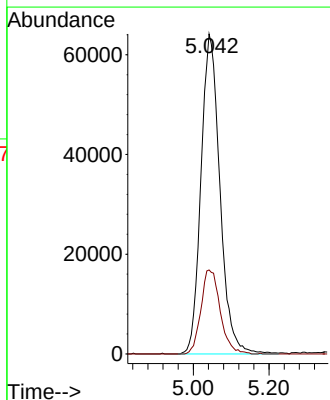
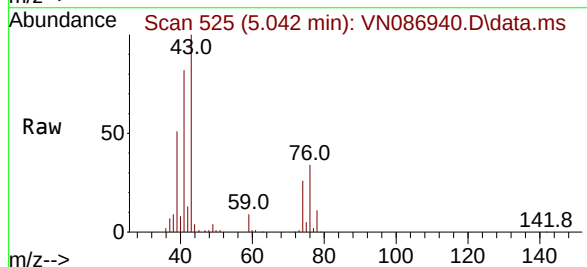
Manual Integrations
APPROVED

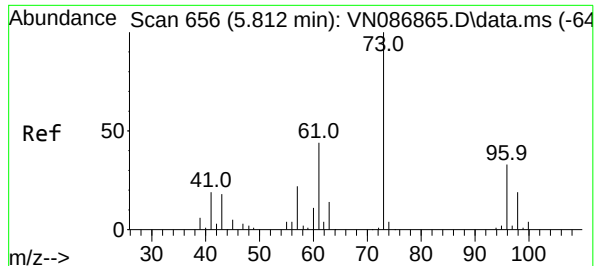
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#18
Methyl Acetate
Concen: 52.419 ug/l
RT: 5.042 min Scan# 525
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Tgt Ion: 43 Resp: 222452
Ion Ratio Lower Upper
43 100
74 26.7 20.7 31.1





#19

Methyl tert-butyl Ether

Concen: 53.894 ug/l

RT: 5.812 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 44545

Ion Ratio Lower Upper

73 100

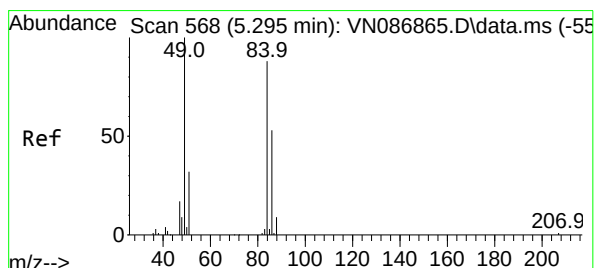
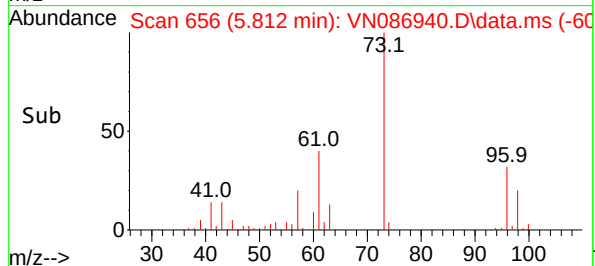
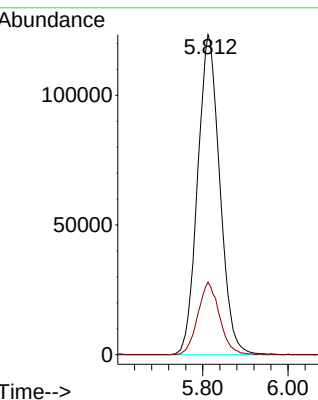
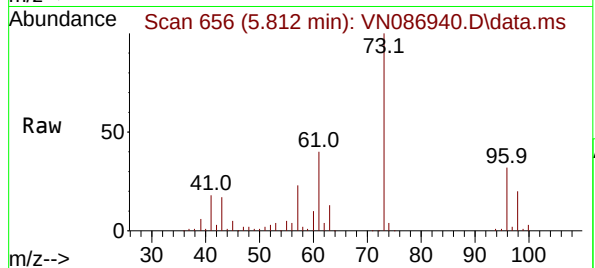
57 22.7 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#20

Methylene Chloride

Concen: 50.660 ug/l

RT: 5.295 min Scan# 568

Delta R.T. -0.000 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Tgt Ion: 84 Resp: 138117

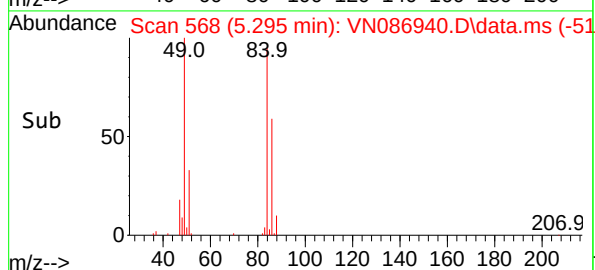
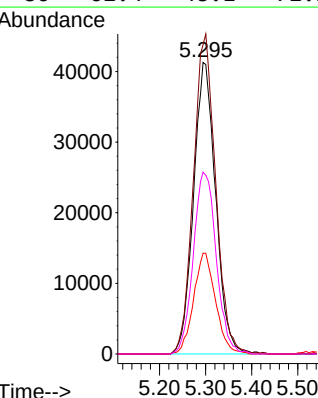
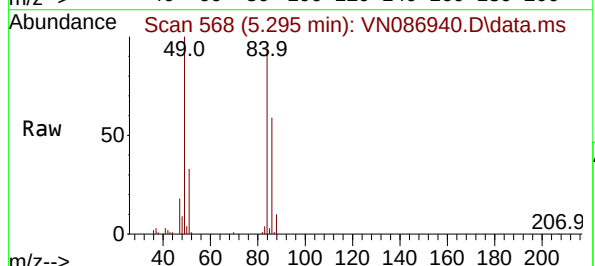
Ion Ratio Lower Upper

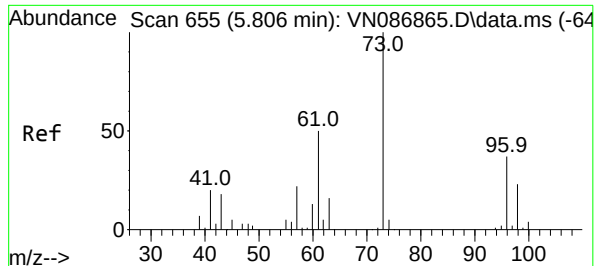
84 100

49 106.1 90.5 135.7

51 34.5 28.5 42.7

86 62.4 48.1 72.1





#21

trans-1,2-Dichloroethene

Concen: 51.154 ug/l

RT: 5.806 min Scan# 61

Delta R.T. -0.000 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 12992

Ion Ratio Lower Upper

96 100

61 132.3 109.2 163.8

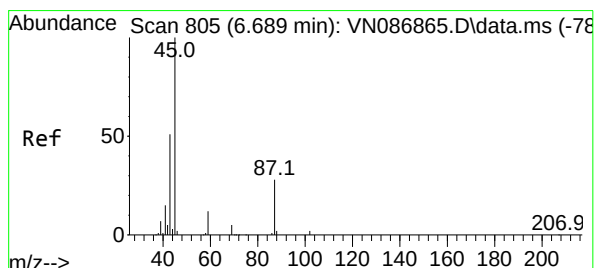
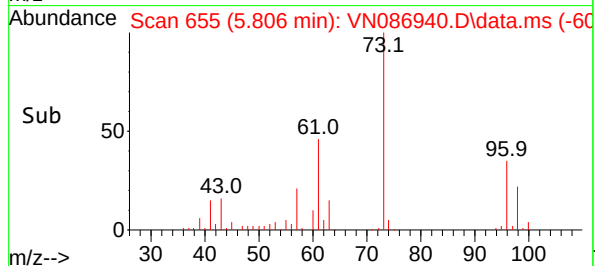
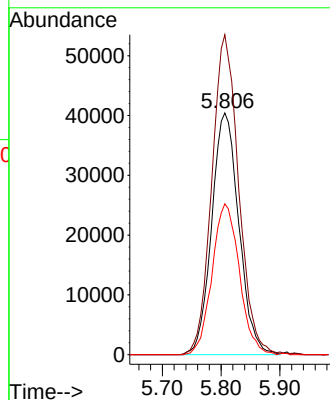
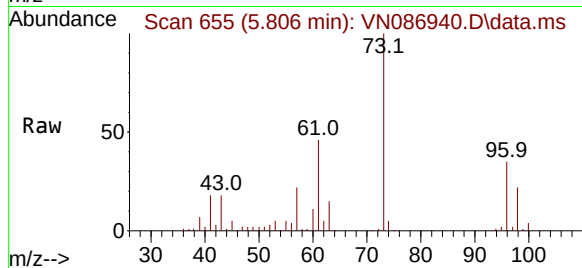
98 62.4 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#22

Diisopropyl ether

Concen: 51.639 ug/l

RT: 6.683 min Scan# 804

Delta R.T. -0.006 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Tgt Ion: 45 Resp: 412097

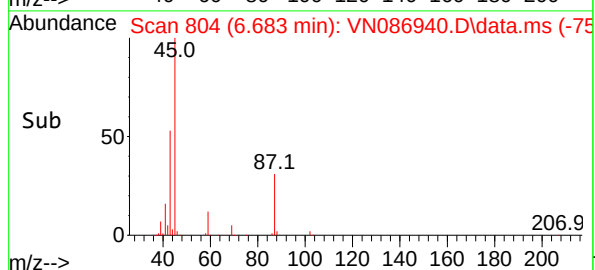
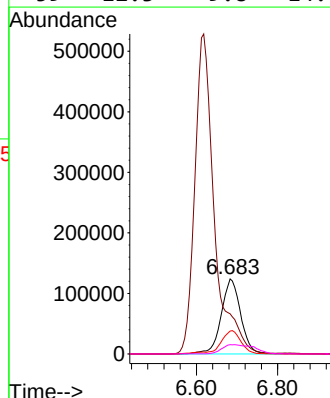
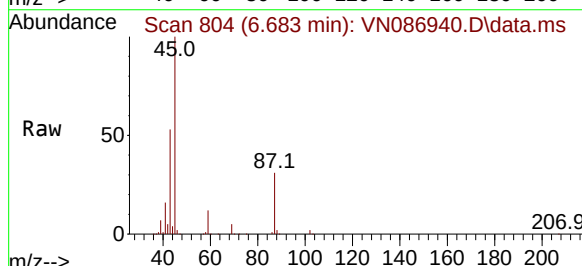
Ion Ratio Lower Upper

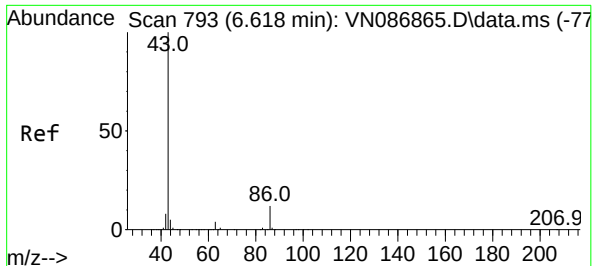
45 100

43 52.4 41.9 62.9

87 30.3 22.4 33.6

59 12.3 9.8 14.6





#23

Vinyl Acetate

Concen: 261.960 ug/l

RT: 6.618 min Scan# 793

Delta R.T. -0.000 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 176627

Ion Ratio Lower Upper

43 100

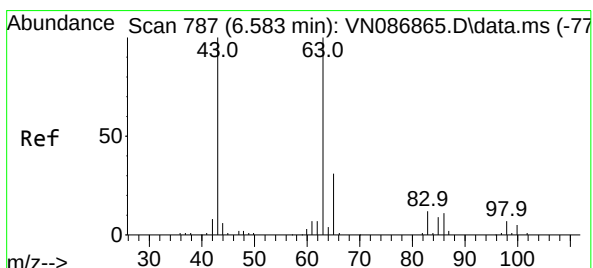
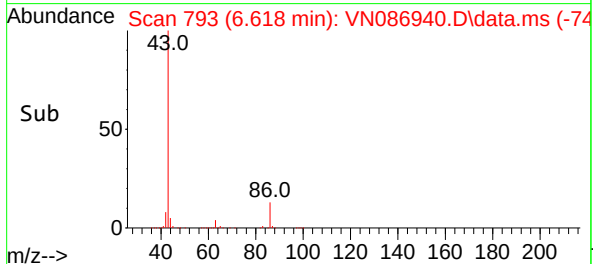
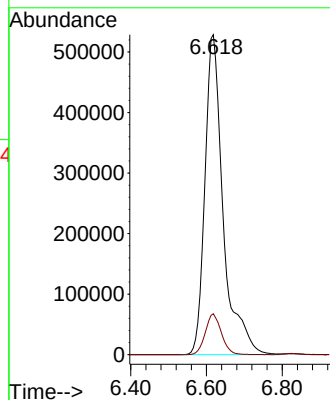
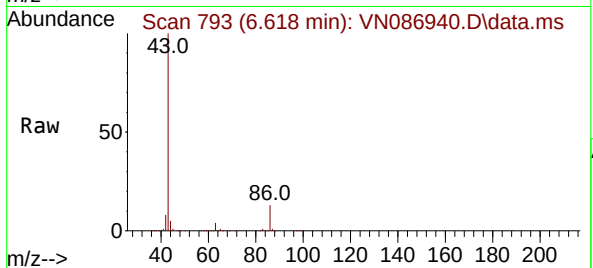
86 12.8 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#24

1,1-Dichloroethane

Concen: 52.602 ug/l

RT: 6.589 min Scan# 788

Delta R.T. 0.006 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

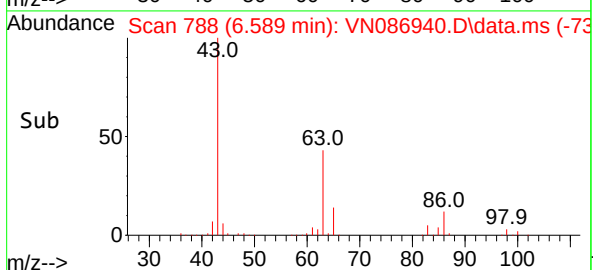
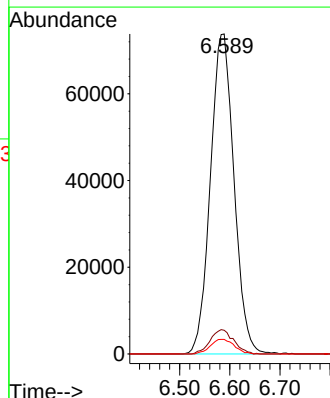
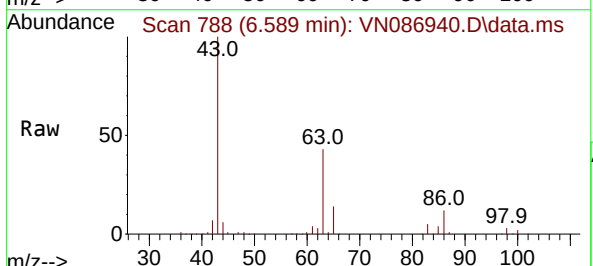
Tgt Ion: 63 Resp: 241575

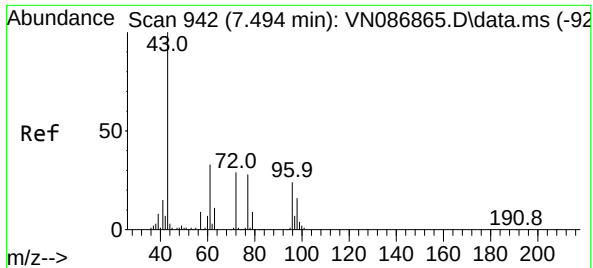
Ion Ratio Lower Upper

63 100

98 7.4 3.6 10.8

100 4.5 2.6 7.8





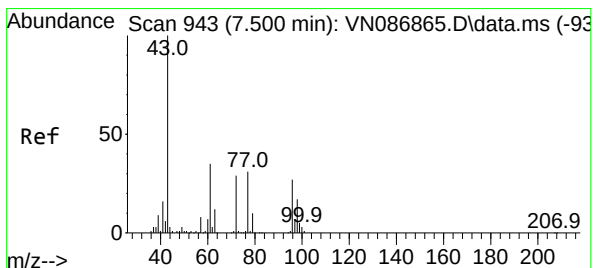
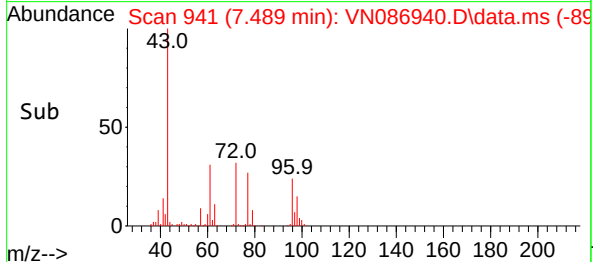
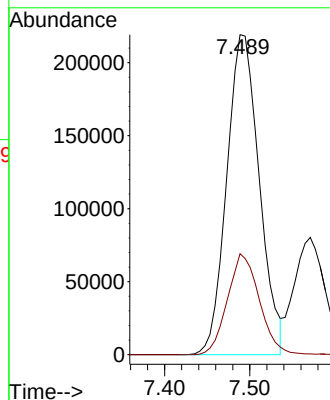
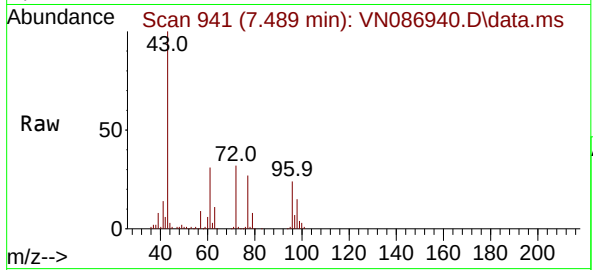
#25
2-Butanone
Concen: 246.018 ug/l
RT: 7.489 min Scan# 941
Delta R.T. -0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 58234
Ion Ratio Lower Upper
43 100
72 31.5 23.0 34.6

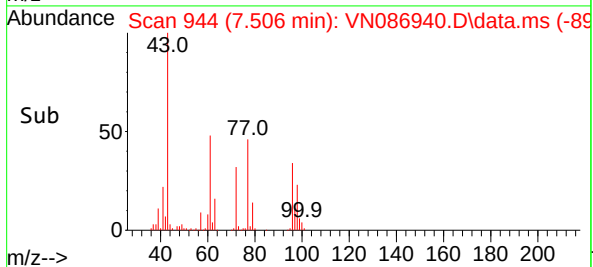
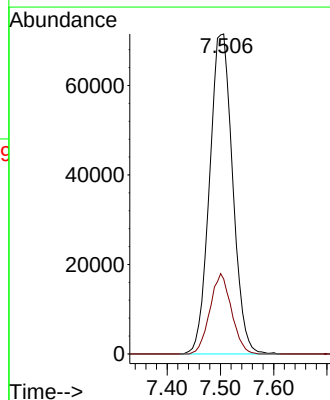
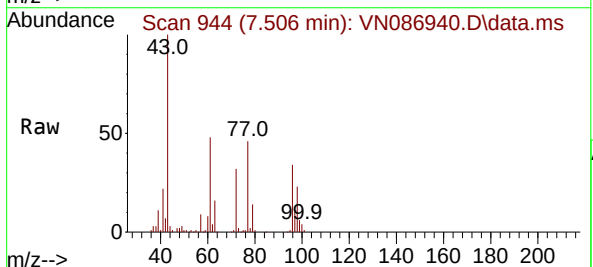
Manual Integrations
APPROVED

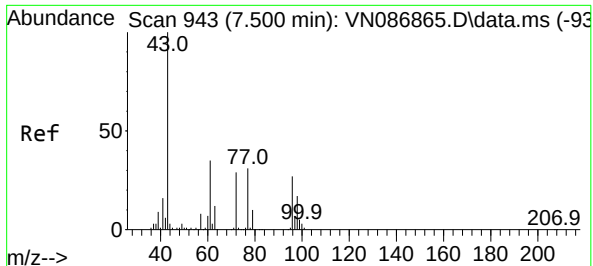
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#26
2,2-Dichloropropane
Concen: 60.206 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Tgt Ion: 77 Resp: 215080
Ion Ratio Lower Upper
77 100
97 23.4 11.6 34.7





#27

cis-1,2-Dichloroethene

Concen: 53.551 ug/l

RT: 7.500 min Scan# 943

Delta R.T. -0.000 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDC050

Tgt Ion: 96 Resp: 162658

Ion Ratio Lower Upper

96 100

61 136.9 0.0 278.0

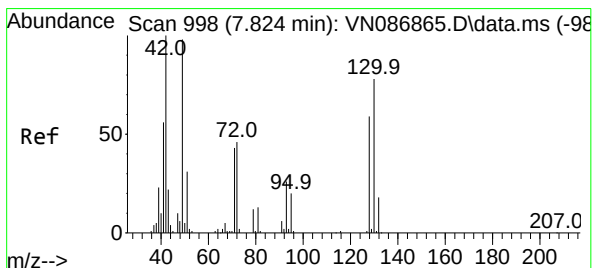
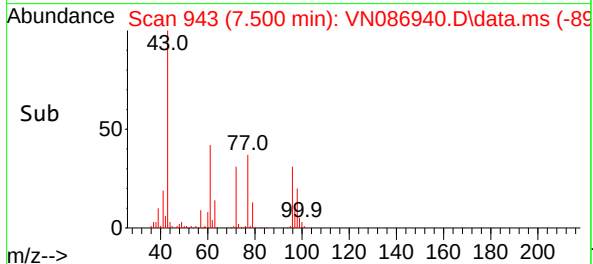
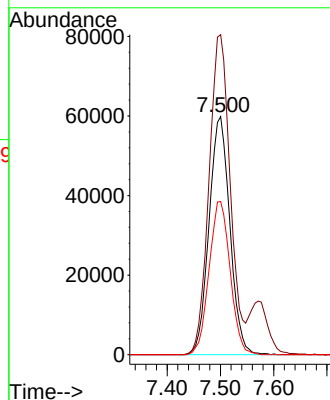
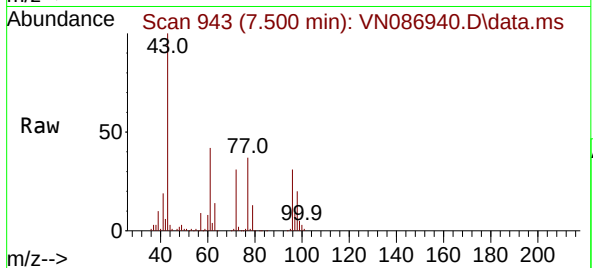
98 65.1 0.0 128.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#28

Bromochloromethane

Concen: 52.462 ug/l

RT: 7.824 min Scan# 998

Delta R.T. -0.000 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

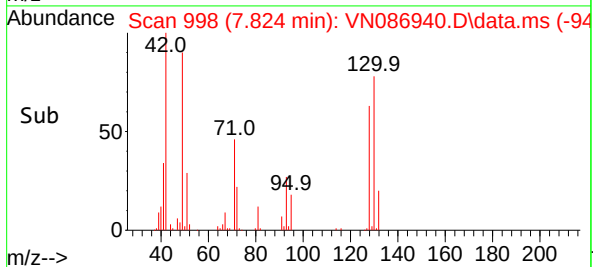
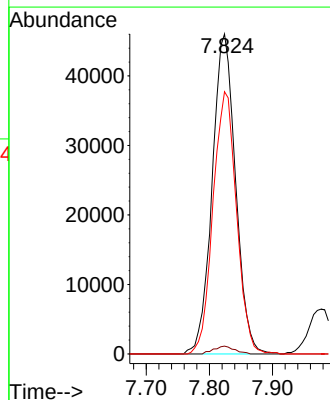
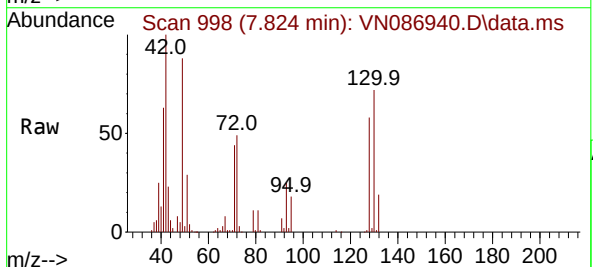
Tgt Ion: 49 Resp: 118461

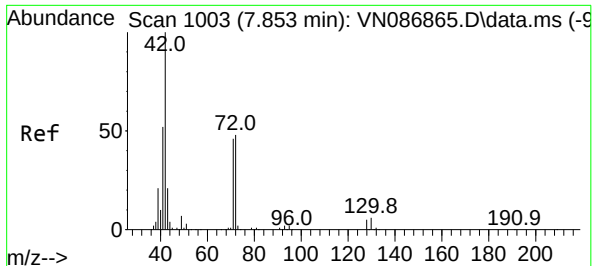
Ion Ratio Lower Upper

49 100

129 2.2 0.0 3.8

130 82.4 62.2 93.2





#29

Tetrahydrofuran

Concen: 246.502 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. -0.006 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 38010

Ion Ratio Lower Upper

42 100

72 50.1 37.8 56.6

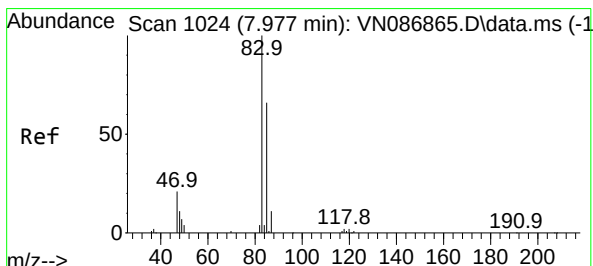
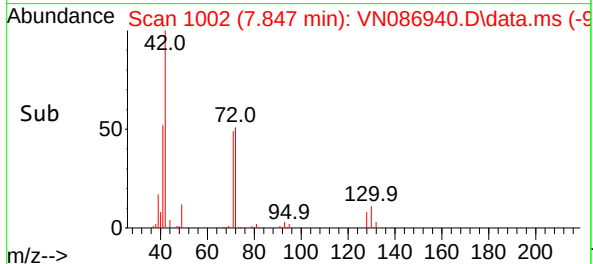
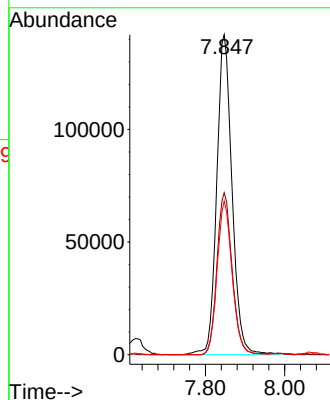
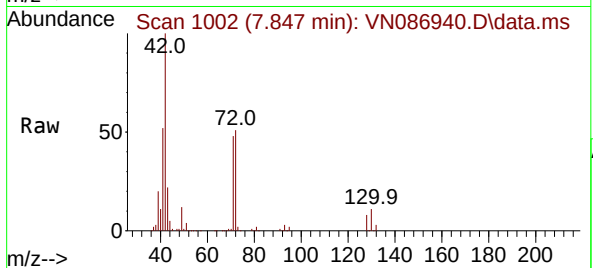
71 47.0 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#30

Chloroform

Concen: 52.589 ug/l

RT: 7.977 min Scan# 1024

Delta R.T. -0.000 min

Lab File: VN086940.D

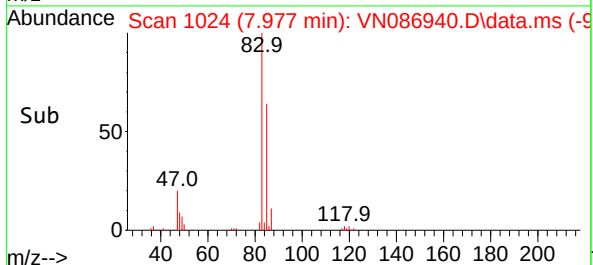
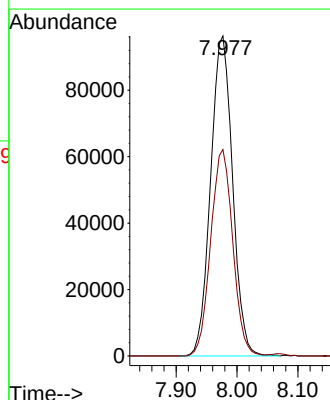
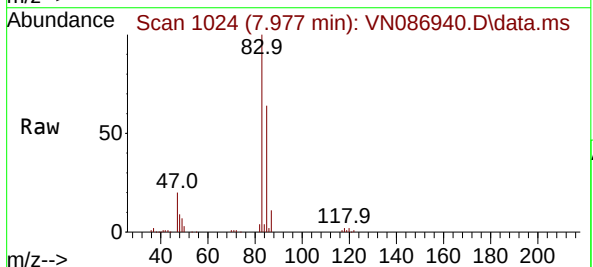
Acq: 11 Jun 2025 11:32

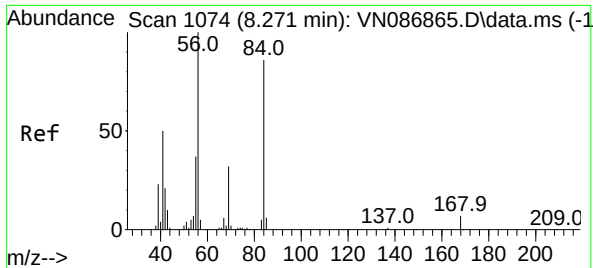
Tgt Ion: 83 Resp: 241191

Ion Ratio Lower Upper

83 100

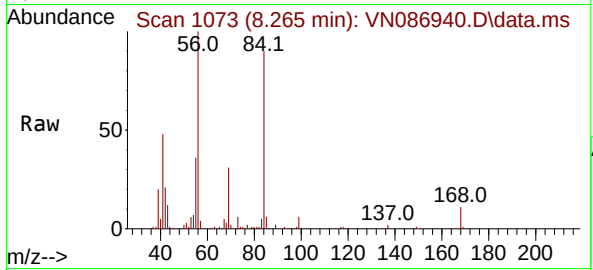
85 64.5 52.9 79.3





#31
Cyclohexane
Concen: 46.846 ug/l
RT: 8.265 min Scan# 1073
Delta R.T. -0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

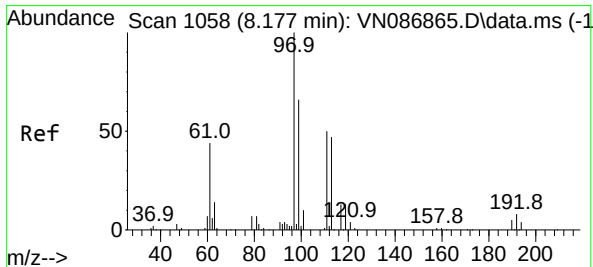
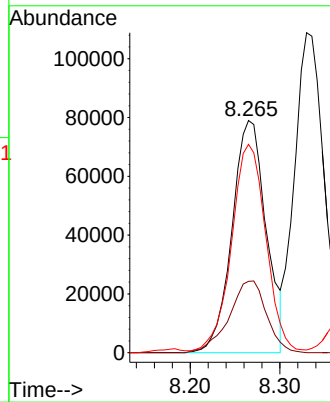
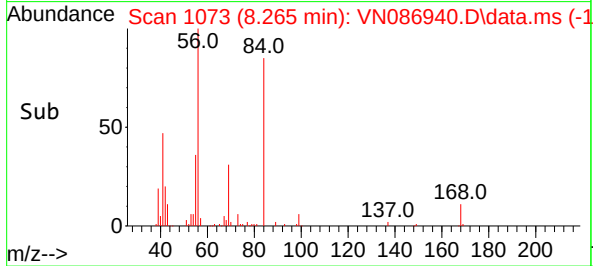
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 56 Resp: 208644
Ion Ratio Lower Upper
56 100
69 30.7 25.4 38.0
84 88.6 68.8 103.2

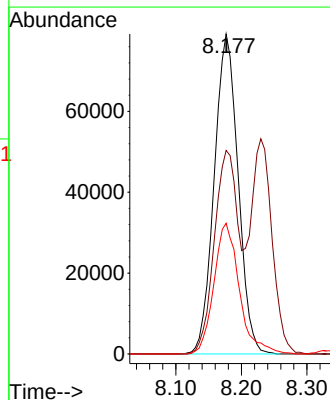
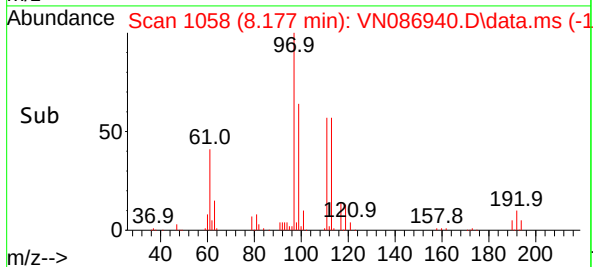
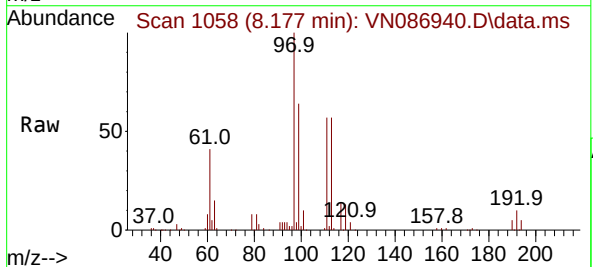
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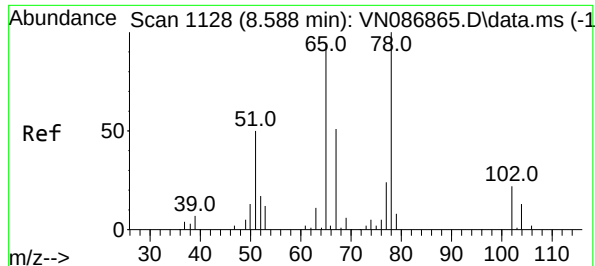
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#32
1,1,1-Trichloroethane
Concen: 51.307 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Tgt Ion: 97 Resp: 200139
Ion Ratio Lower Upper
97 100
99 62.4 52.0 78.0
61 43.5 35.9 53.9





#33

1,2-Dichloroethane-d4

Concen: 46.478 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 127629

Ion Ratio Lower Upper

65 100

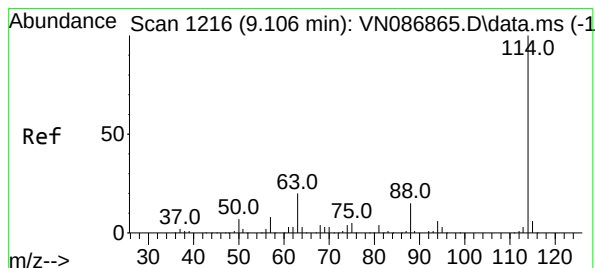
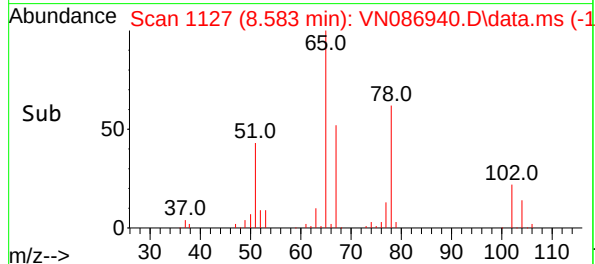
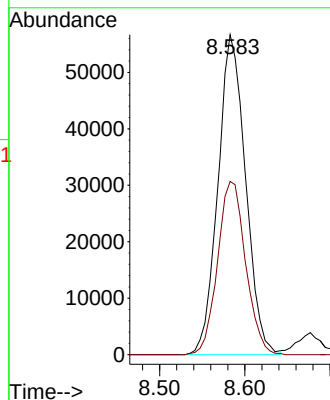
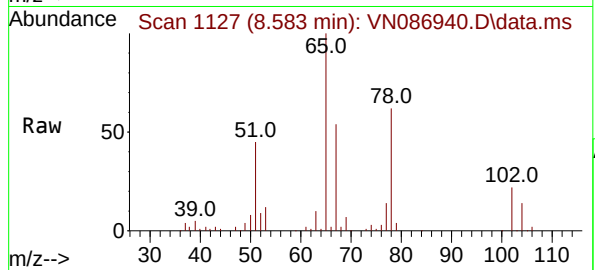
67 55.0 0.0 105.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

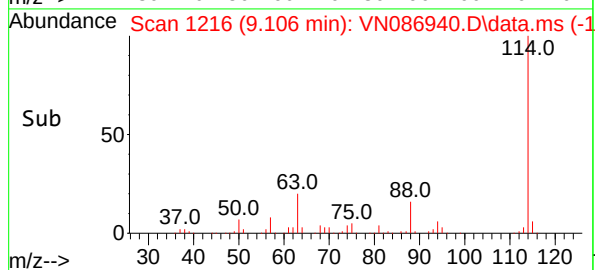
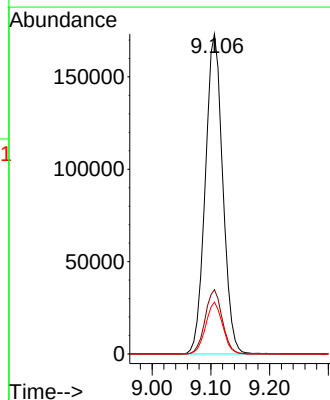
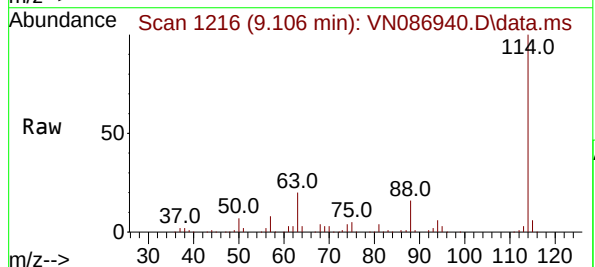
Tgt Ion:114 Resp: 357643

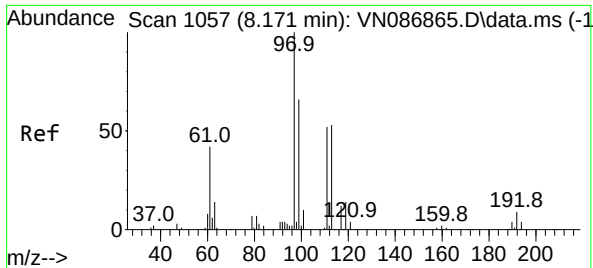
Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.6

88 16.2 0.0 30.2





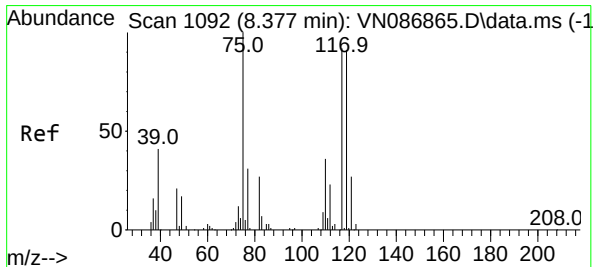
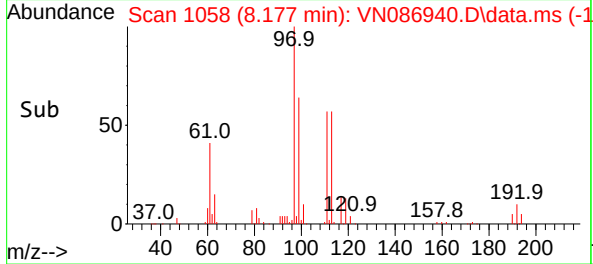
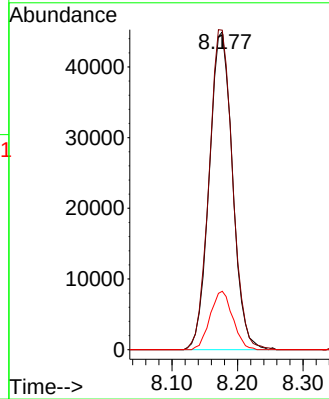
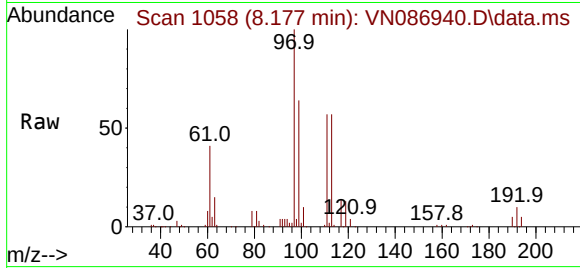
#35
Dibromofluoromethane
Concen: 52.151 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 113 Resp: 11053
Ion Ratio Lower Upper
113 100
111 101.8 84.2 126.2
192 17.9 14.2 21.4

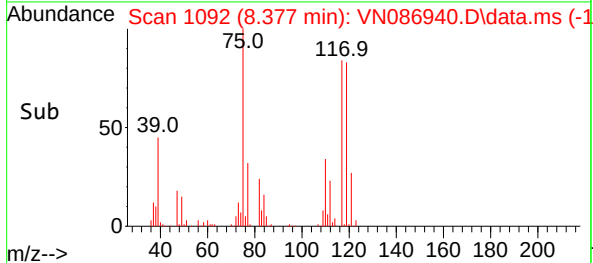
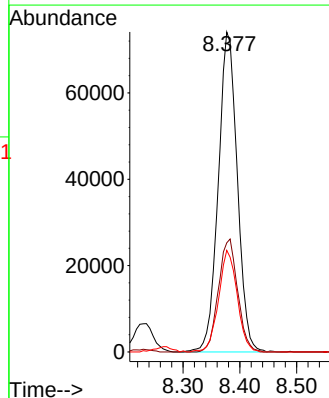
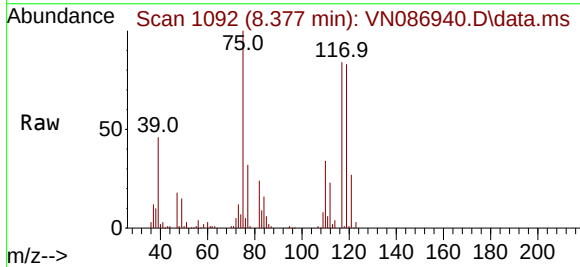
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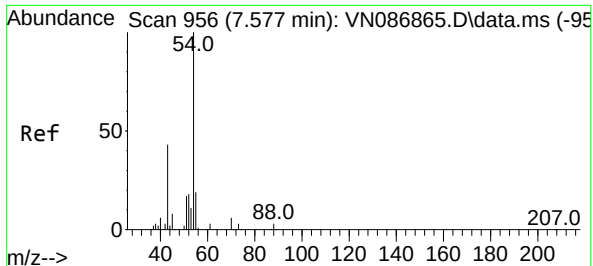
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#36
1,1-Dichloropropene
Concen: 54.664 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Tgt Ion: 75 Resp: 172642
Ion Ratio Lower Upper
75 100
110 35.6 17.6 52.9
77 31.1 25.3 37.9





#37

Ethyl Acetate

Concen: 52.670 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 21175

Ion Ratio Lower Upper

43 100

61 15.2 12.1 18.1

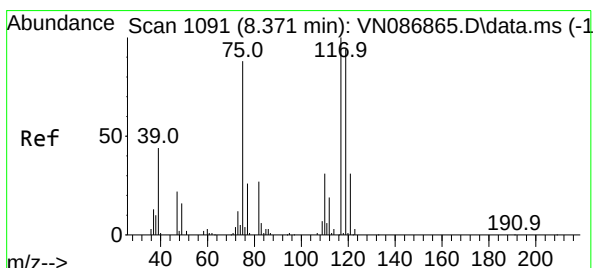
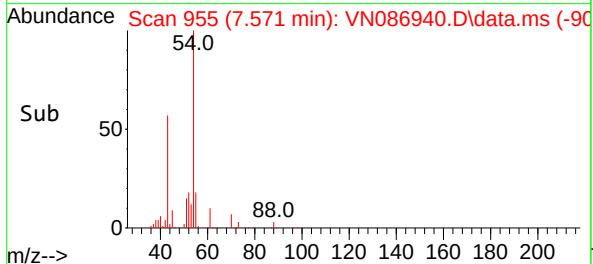
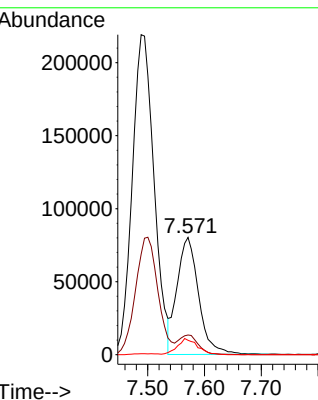
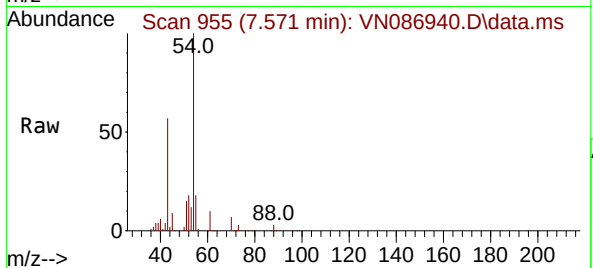
70 12.8 9.8 14.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#38

Carbon Tetrachloride

Concen: 54.485 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

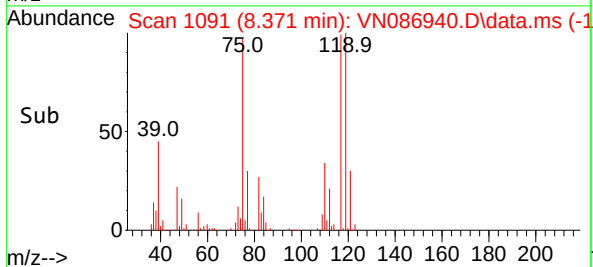
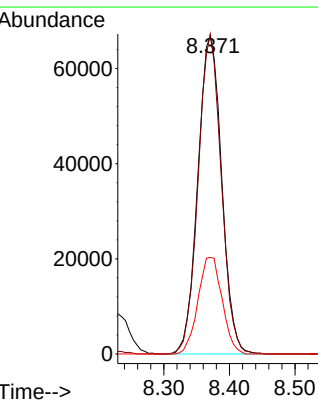
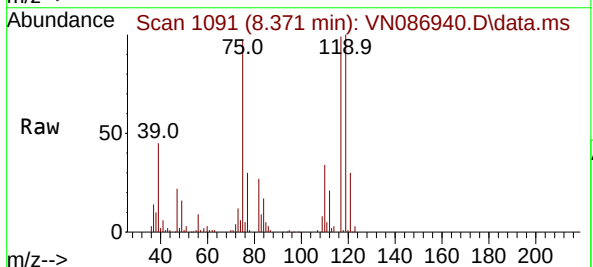
Tgt Ion:117 Resp: 168940

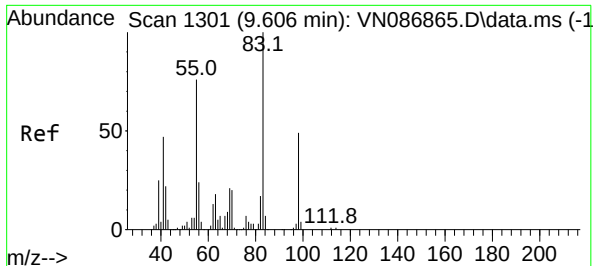
Ion Ratio Lower Upper

117 100

119 100.6 75.0 112.6

121 30.4 24.9 37.3





#39

Methylcyclohexane

Concen: 47.613 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 206018

Ion Ratio Lower Upper

83 100

55 71.2 61.0 91.6

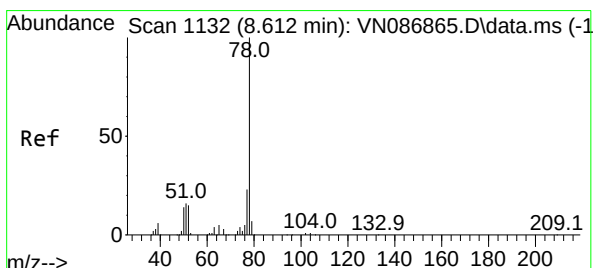
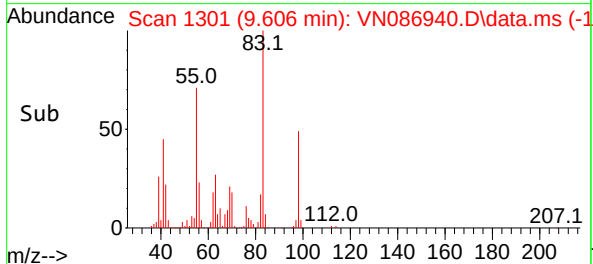
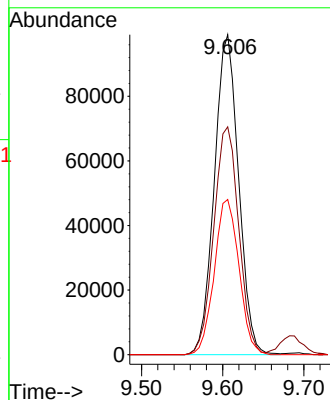
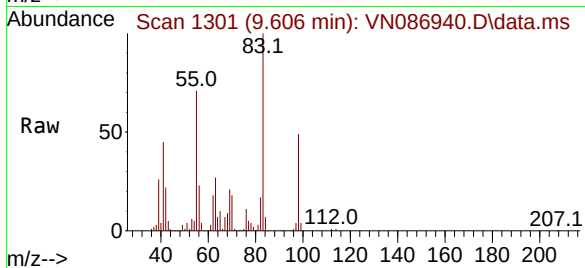
98 48.5 38.9 58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#40

Benzene

Concen: 53.798 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VN086940.D

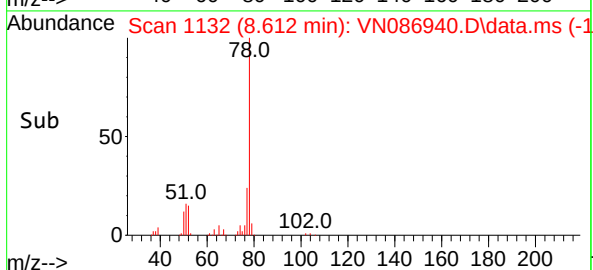
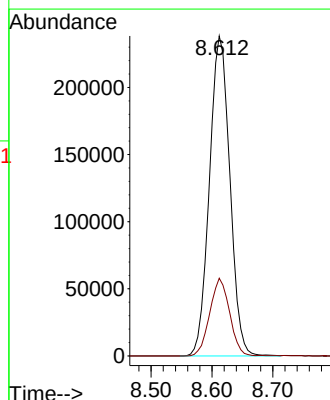
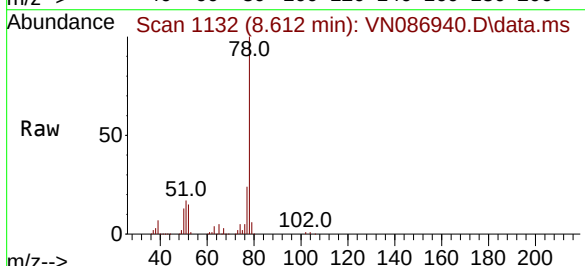
Acq: 11 Jun 2025 11:32

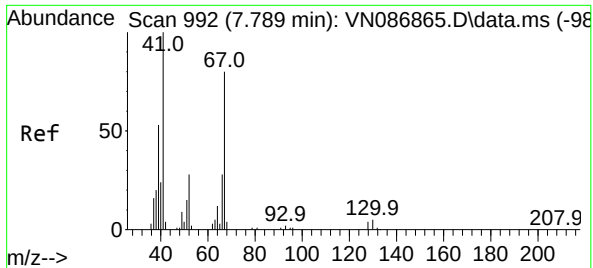
Tgt Ion: 78 Resp: 555597

Ion Ratio Lower Upper

78 100

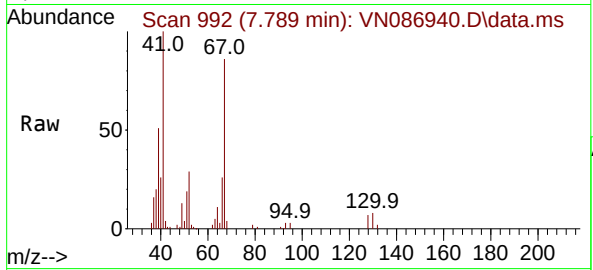
77 24.3 18.7 28.1





#41
Methacrylonitrile
Concen: 51.017 ug/l
RT: 7.789 min Scan# 992
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

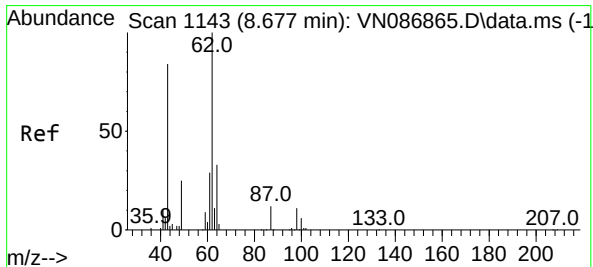
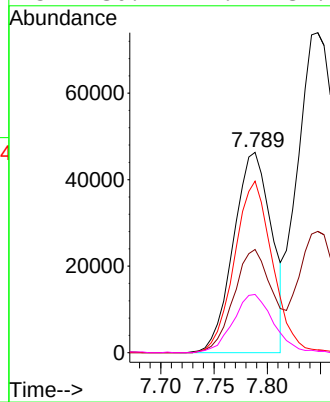
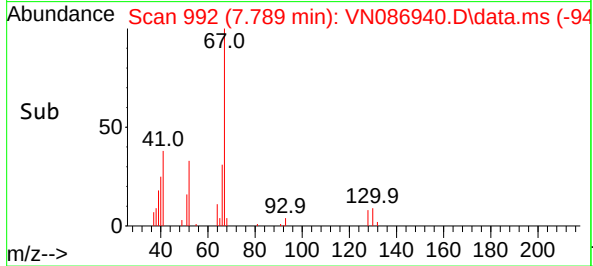
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 41 Resp: 11519
Ion Ratio Lower Upper
41 100
39 53.8 41.2 61.8
67 85.5 61.4 92.2
52 30.7 22.7 34.1

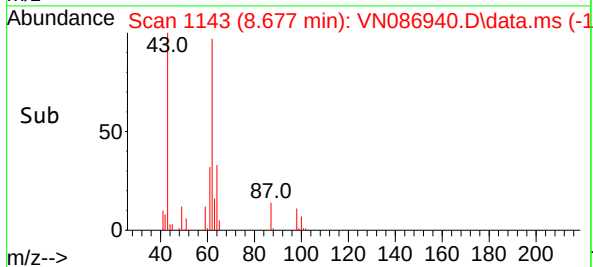
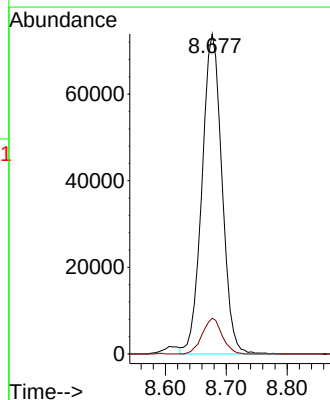
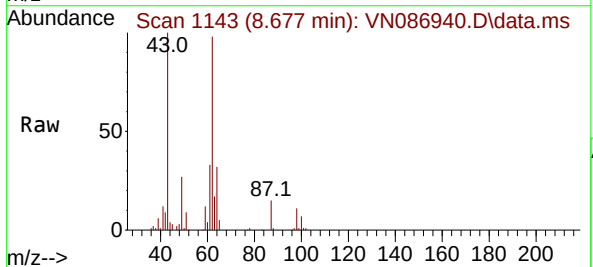
Manual Integrations
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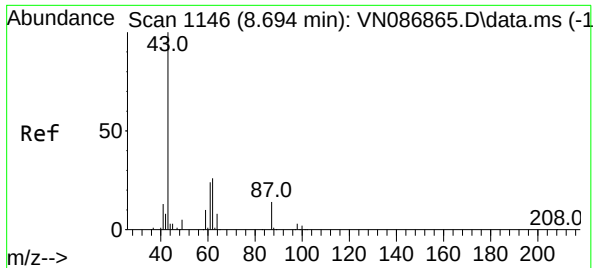
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#42
1,2-Dichloroethane
Concen: 53.833 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

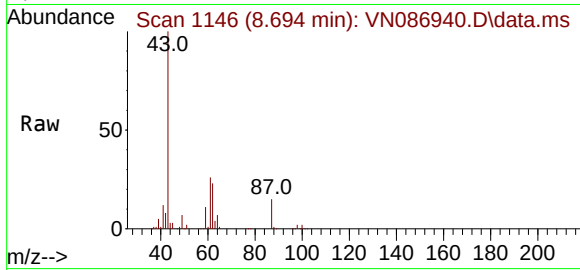
Tgt Ion: 62 Resp: 168630
Ion Ratio Lower Upper
62 100
98 11.0 0.0 21.2





#43
Isopropyl Acetate
Concen: 52.442 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

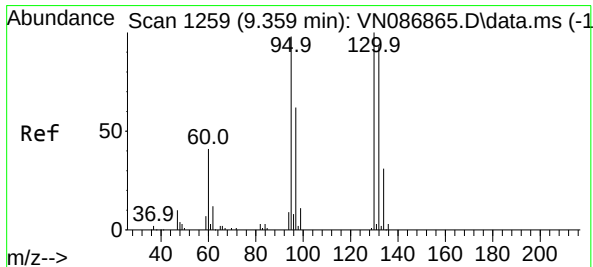
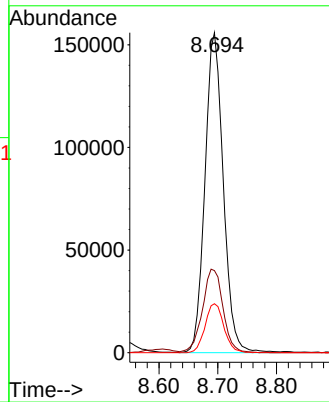
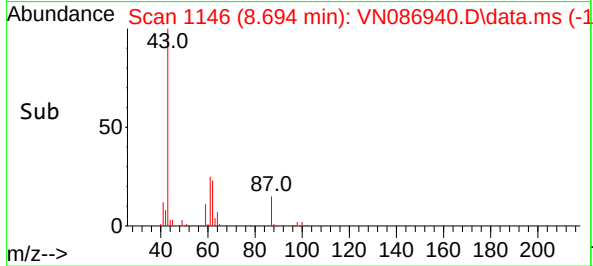
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 338399
Ion Ratio Lower Upper
43 100
61 29.2 22.1 33.1
87 15.7 11.8 17.6

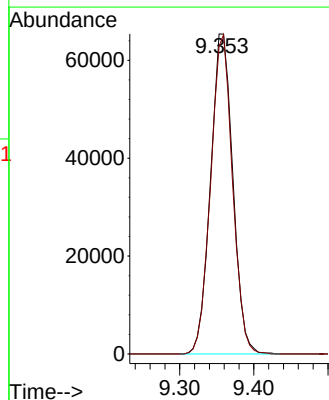
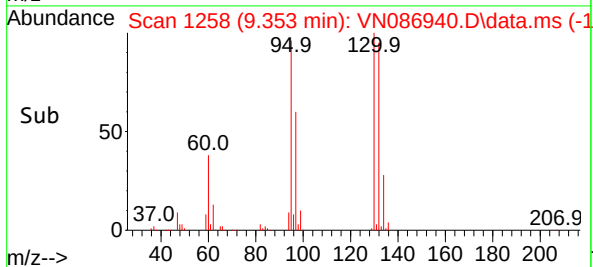
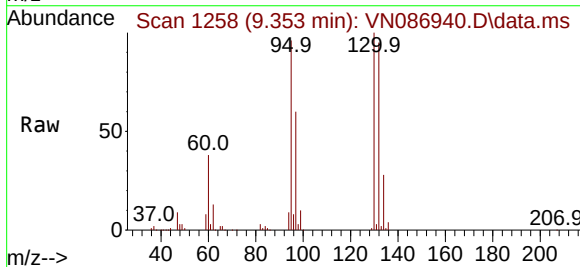
Manual Integrations
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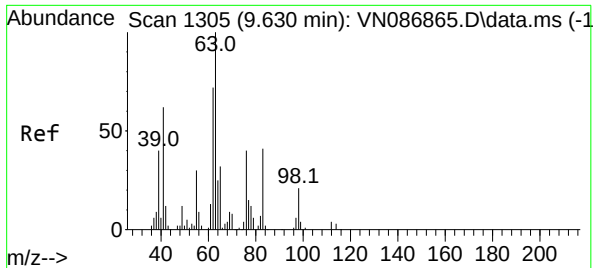
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#44
Trichloroethene
Concen: 55.842 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. -0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Tgt Ion:130 Resp: 136748
Ion Ratio Lower Upper
130 100
95 96.1 0.0 196.2





#45

1,2-Dichloropropane

Concen: 54.626 ug/l

RT: 9.624 min Scan# 1319

Delta R.T. -0.006 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDC050

Tgt Ion: 63 Resp: 137250

Ion Ratio Lower Upper

63 100

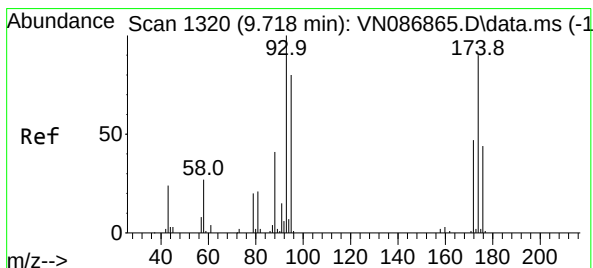
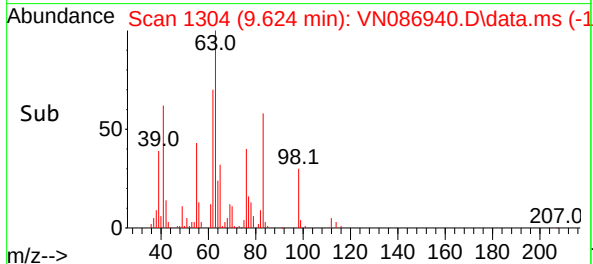
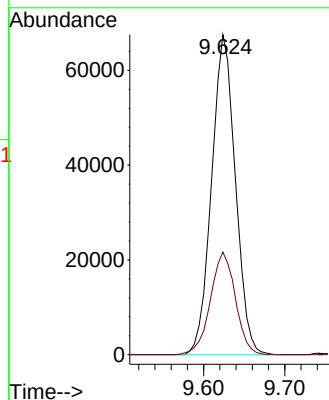
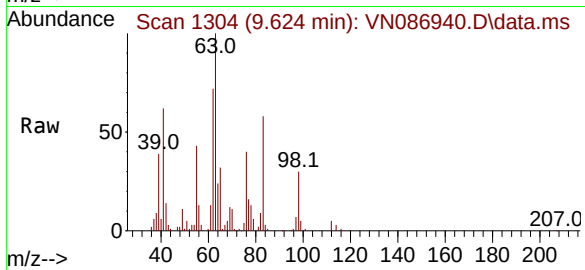
65 32.0 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#46

Dibromomethane

Concen: 56.697 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. -0.006 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

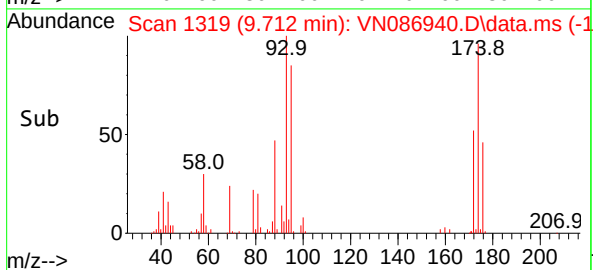
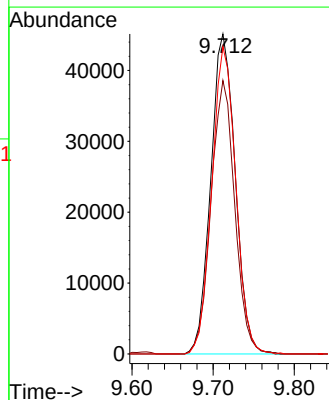
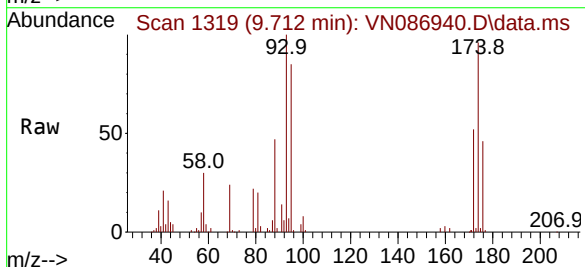
Tgt Ion: 93 Resp: 94620

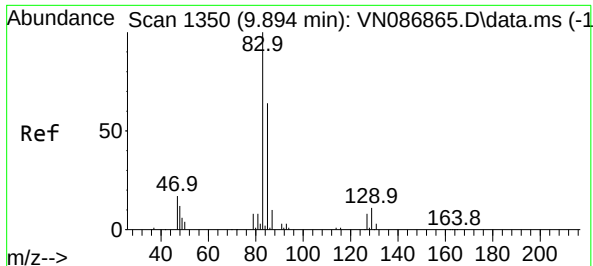
Ion Ratio Lower Upper

93 100

95 82.9 67.1 100.7

174 94.1 74.2 111.4





#47

Bromodichloromethane

Concen: 55.440 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.006 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 190362

Ion Ratio Lower Upper

83 100

85 63.3 50.9 76.3

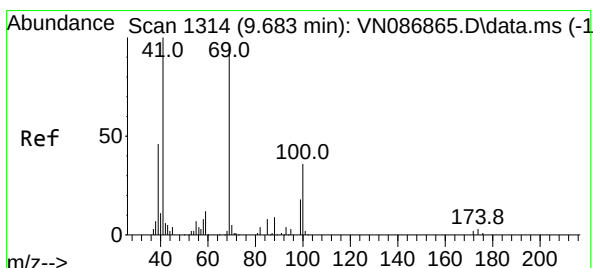
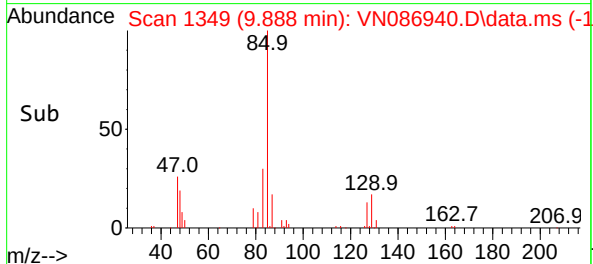
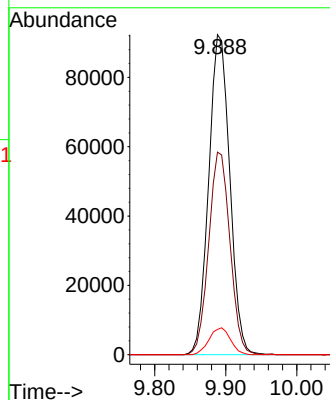
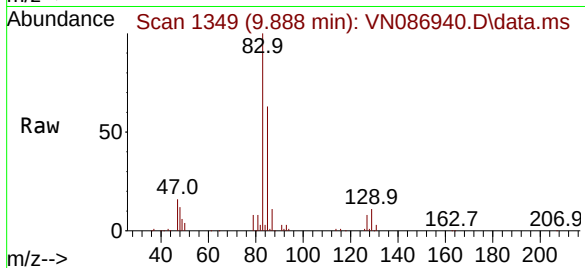
127 7.9 6.6 10.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#48

Methyl methacrylate

Concen: 51.898 ug/l

RT: 9.683 min Scan# 1314

Delta R.T. -0.000 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

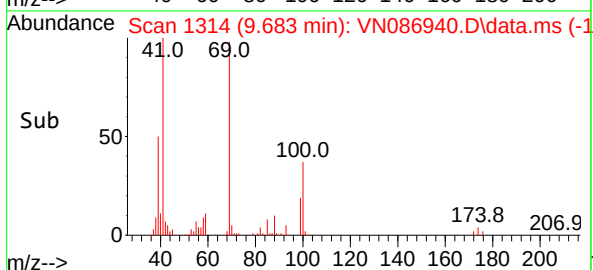
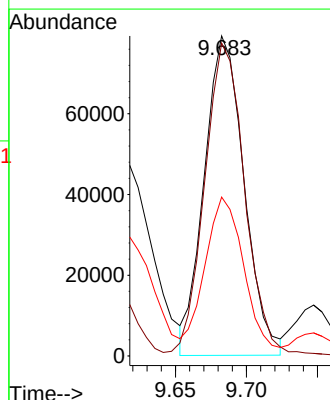
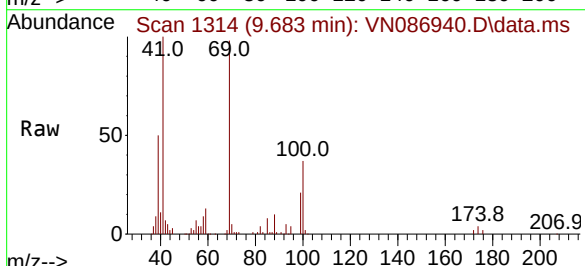
Tgt Ion: 41 Resp: 154138

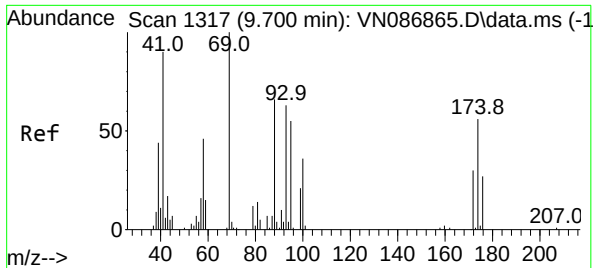
Ion Ratio Lower Upper

41 100

69 98.4 74.6 112.0

39 49.7 40.2 60.4





#49

1,4-Dioxane

Concen: 1128.409 ug/l

RT: 9.700 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 60969

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

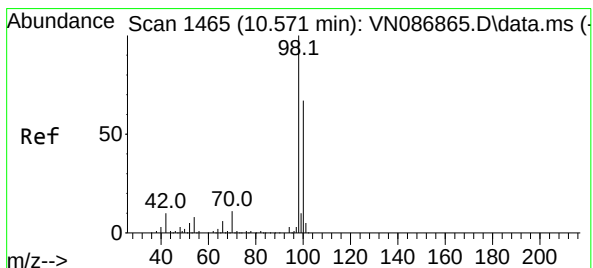
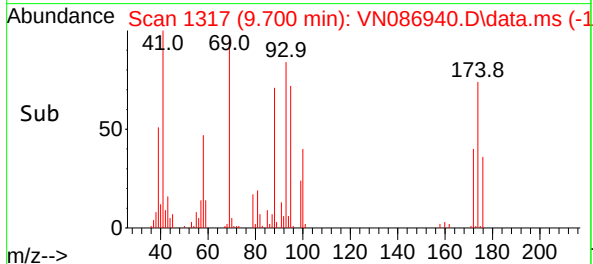
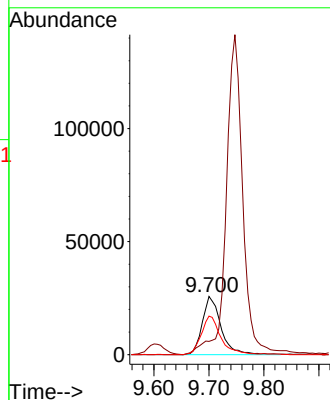
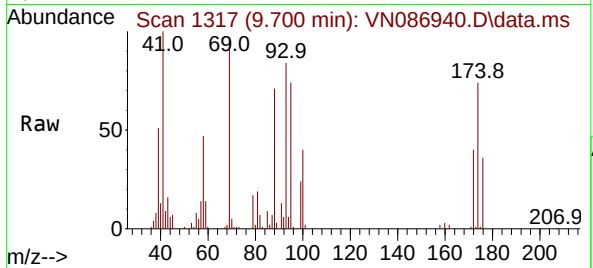
58 68.8 57.7 86.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#50

Toluene-d8

Concen: 50.342 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.006 min

Lab File: VN086940.D

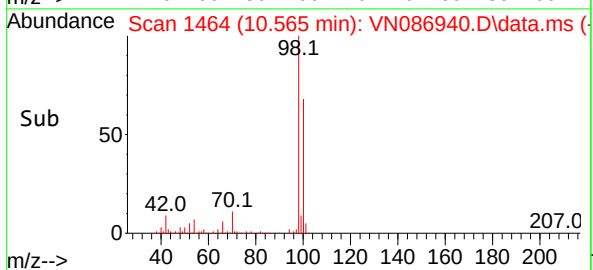
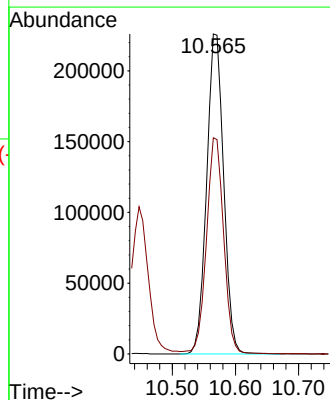
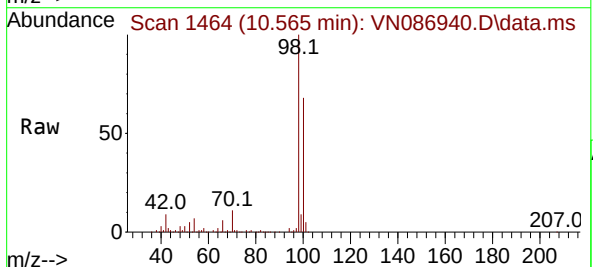
Acq: 11 Jun 2025 11:32

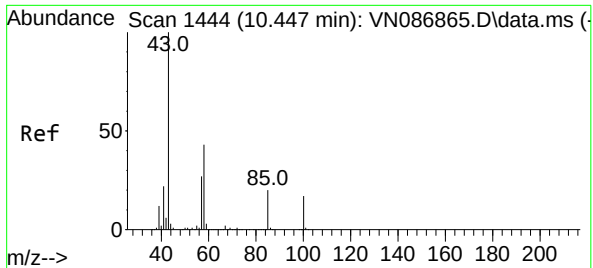
Tgt Ion: 98 Resp: 422391

Ion Ratio Lower Upper

98 100

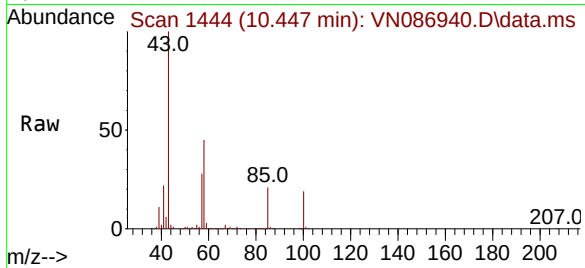
100 68.2 53.4 80.0





#51
4-Methyl-2-Pentanone
Concen: 271.529 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

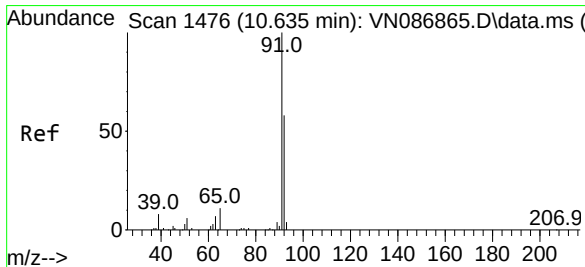
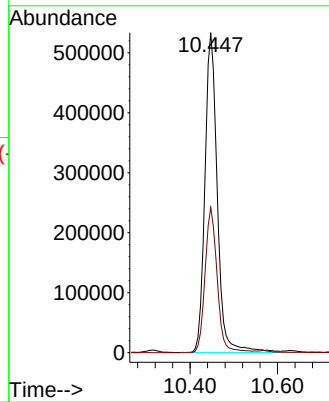
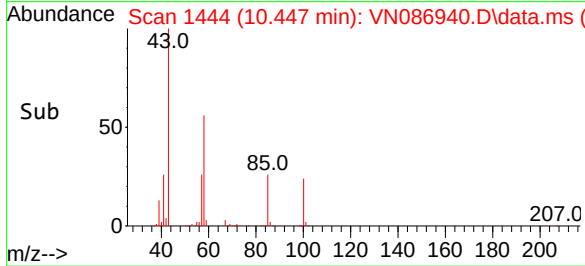
Instrument :
MSVOA_N
ClientSampleId :
VSTDC050



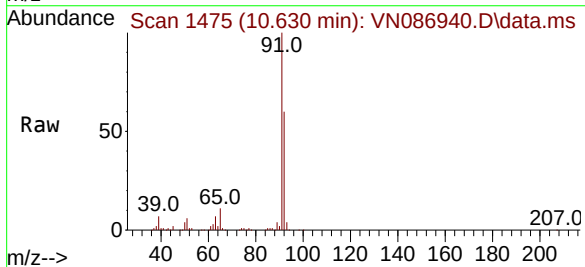
Tgt Ion: 43 Resp: 105479
Ion Ratio Lower Upper
43 100
58 44.3 34.2 51.4

Manual Integrations
APPROVED

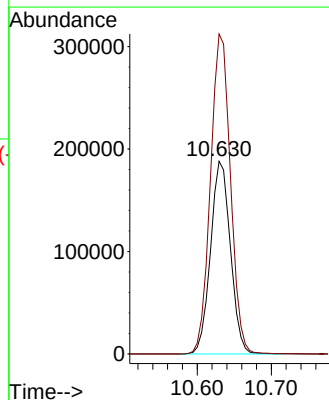
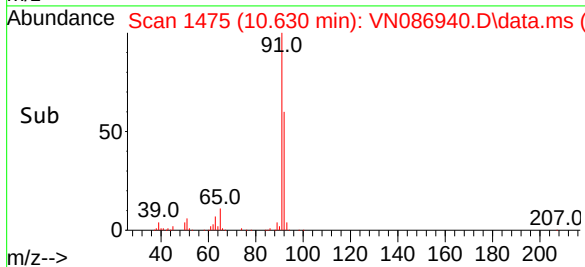
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

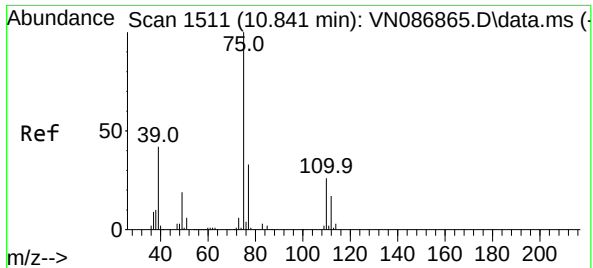


#52
Toluene
Concen: 55.435 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32



Tgt Ion: 92 Resp: 349873
Ion Ratio Lower Upper
92 100
91 167.2 136.5 204.7





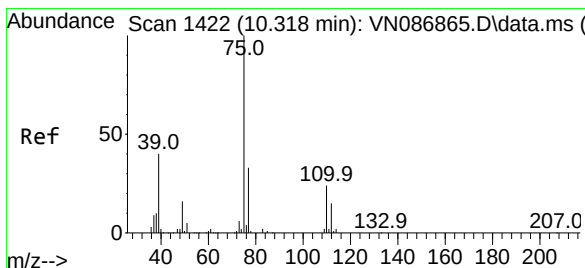
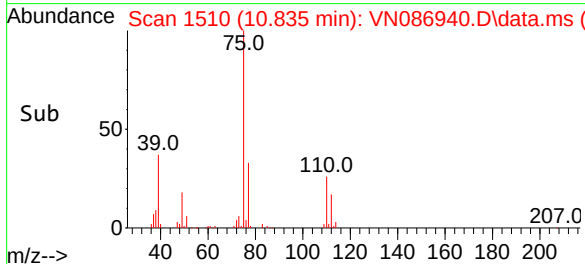
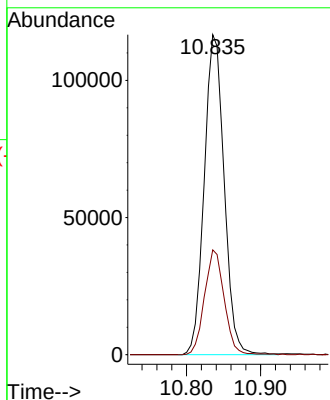
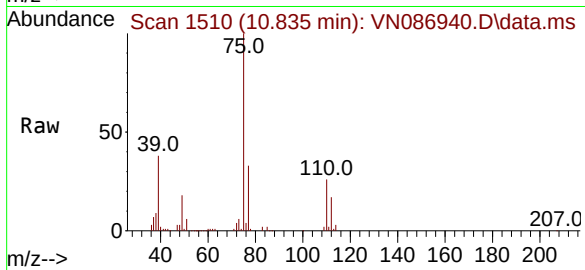
#53
t-1,3-Dichloropropene
Concen: 56.714 ug/l
RT: 10.835 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 21775
Ion Ratio Lower Upper
75 100
77 32.7 26.4 39.6

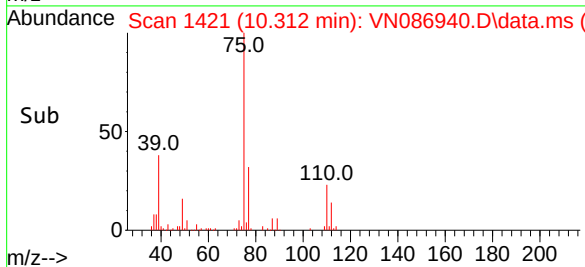
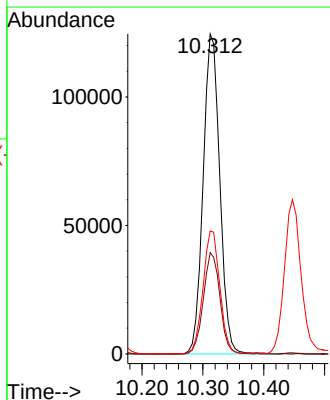
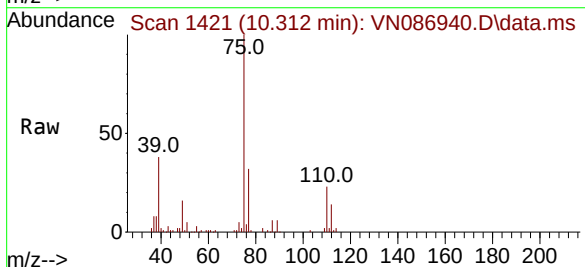
Manual Integrations
APPROVED

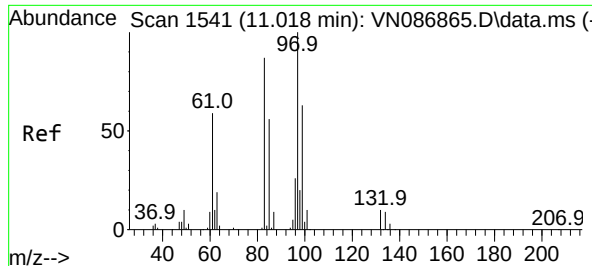
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#54
cis-1,3-Dichloropropene
Concen: 57.518 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

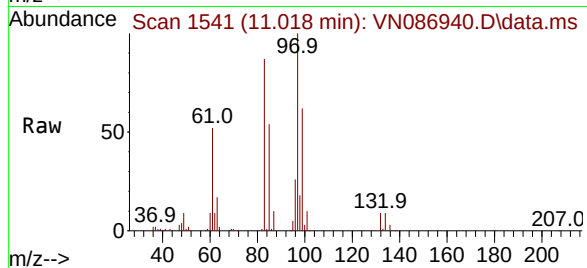
Tgt Ion: 75 Resp: 236296
Ion Ratio Lower Upper
75 100
77 31.6 26.2 39.4
39 38.5 32.3 48.5





#55
1,1,2-Trichloroethane
Concen: 56.454 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

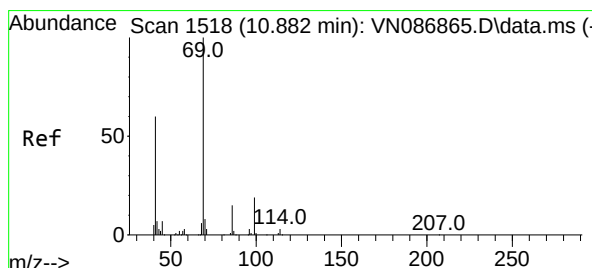
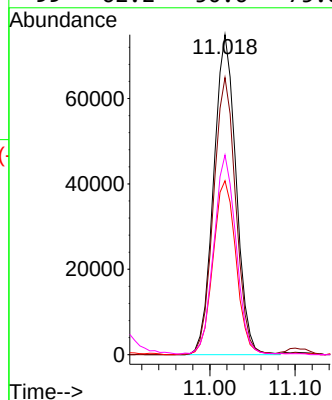
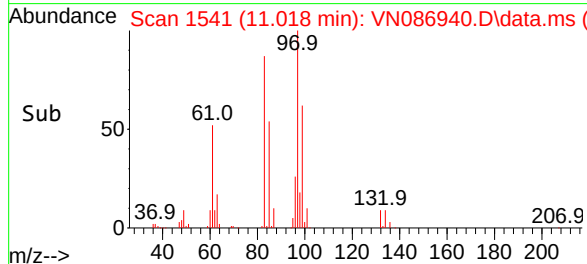
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 97 Resp: 137099
Ion Ratio Lower Upper
97 100
83 86.6 69.7 104.5
85 54.1 45.1 67.7
99 62.2 50.6 75.8

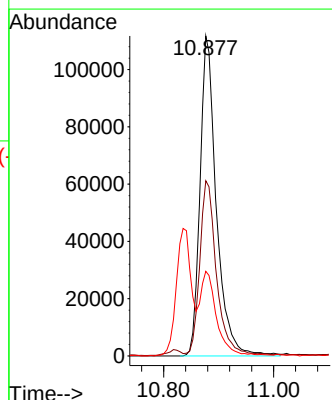
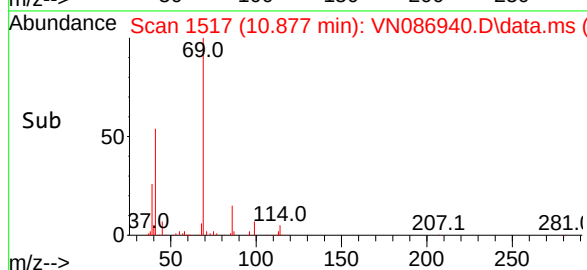
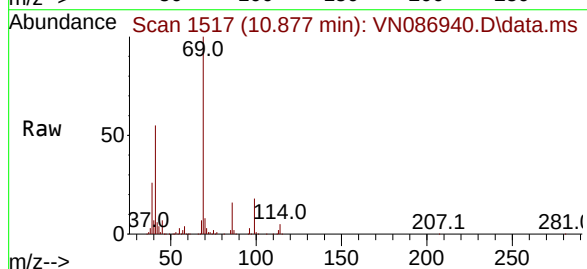
Manual Integrations
APPROVED

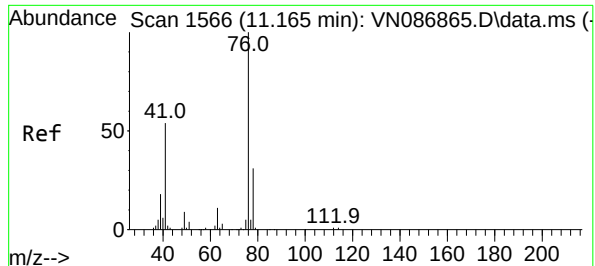
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#56
Ethyl methacrylate
Concen: 59.778 ug/l
RT: 10.877 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Tgt Ion: 69 Resp: 231226
Ion Ratio Lower Upper
69 100
41 55.6 47.2 70.8
39 26.0 23.0 34.6





#57

1,3-Dichloropropane

Concen: 55.247 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. -0.000 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 232740

Ion Ratio Lower Upper

76 100

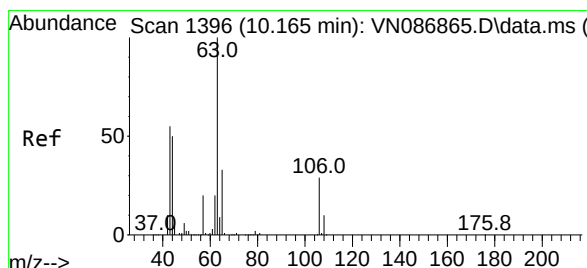
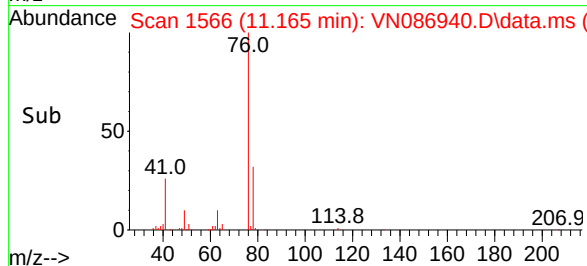
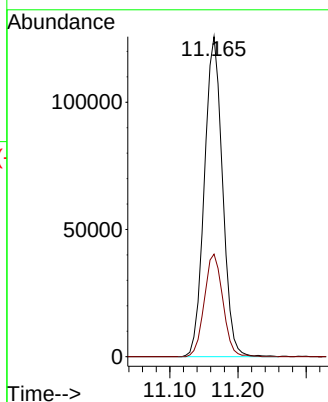
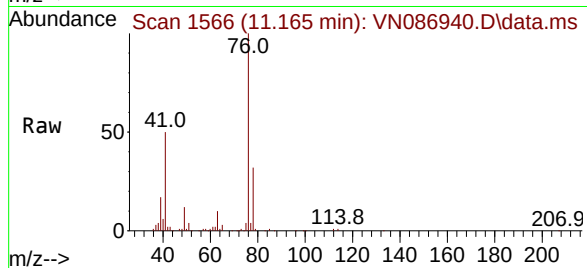
78 32.8 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#58

2-Chloroethyl Vinyl ether

Concen: 288.579 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. -0.006 min

Lab File: VN086940.D

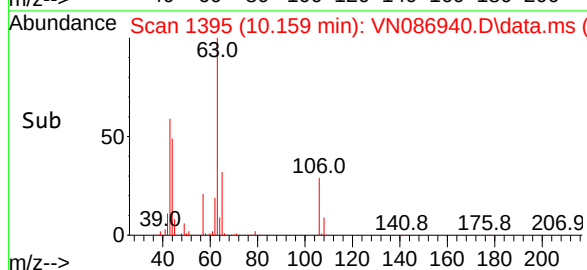
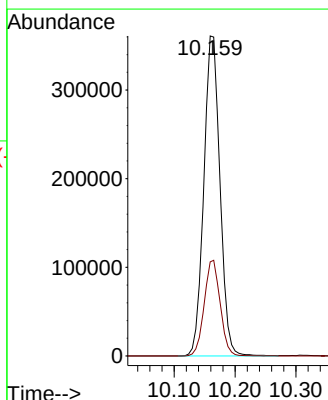
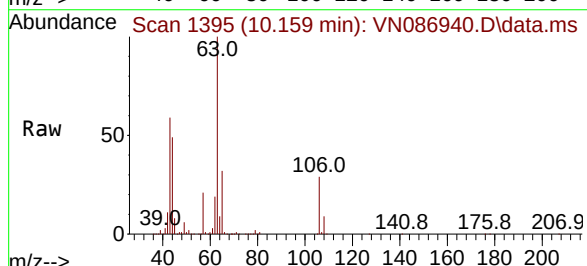
Acq: 11 Jun 2025 11:32

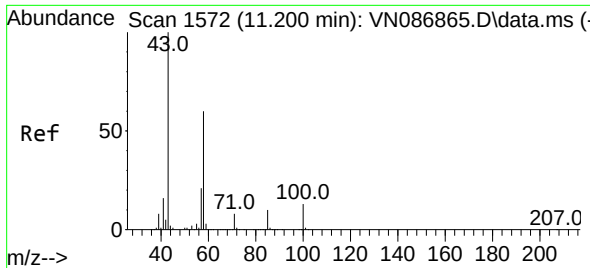
Tgt Ion: 63 Resp: 665780

Ion Ratio Lower Upper

63 100

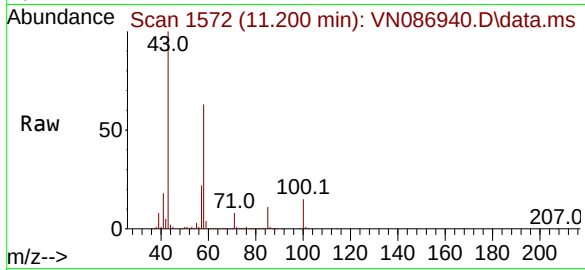
106 29.5 23.0 34.6





#59
2-Hexanone
Concen: 282.011 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

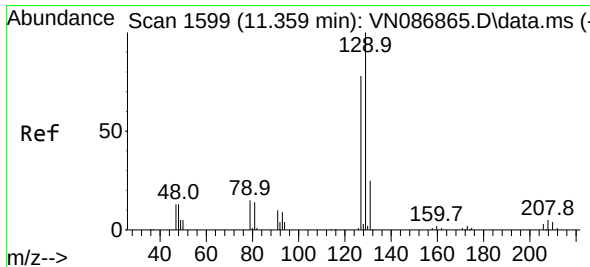
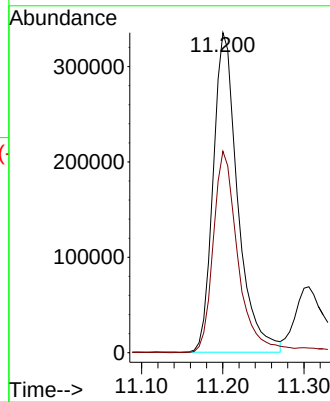
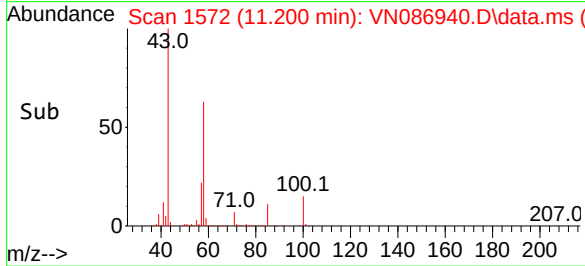
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 705660
Ion Ratio Lower Upper
43 100
58 63.5 30.4 91.3

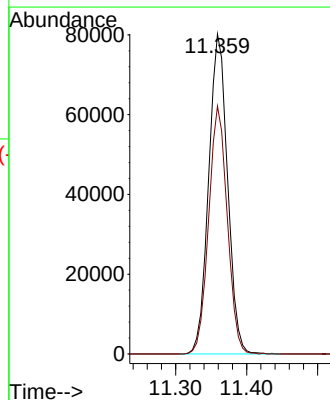
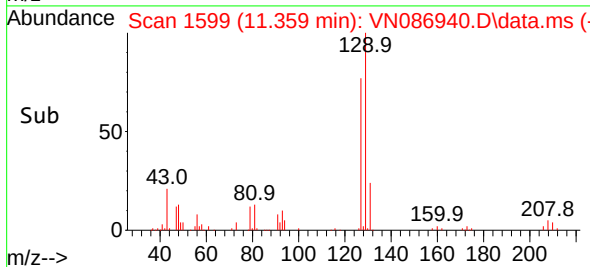
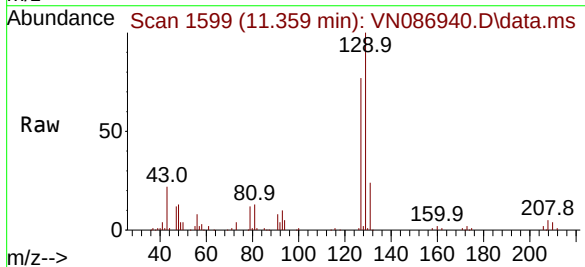
Manual Integrations
APPROVED

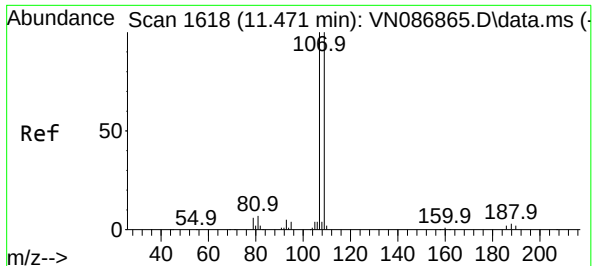
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#60
Dibromochloromethane
Concen: 58.520 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

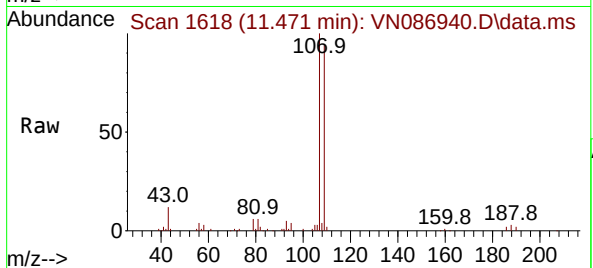
Tgt Ion:129 Resp: 148069
Ion Ratio Lower Upper
129 100
127 76.4 38.6 115.8





#61
1,2-Dibromoethane
Concen: 55.351 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

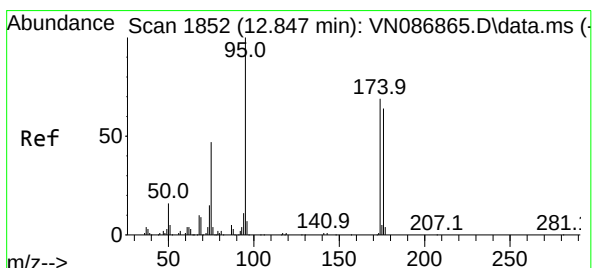
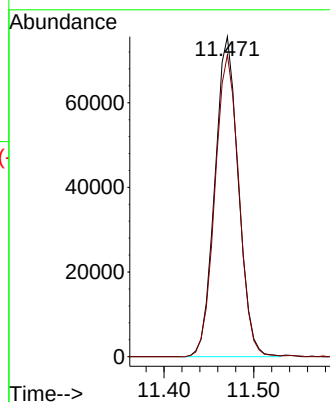
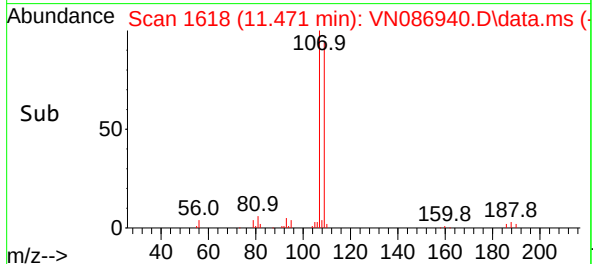
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 107 Resp: 137779
Ion Ratio Lower Upper
107 100
109 96.1 76.3 114.5

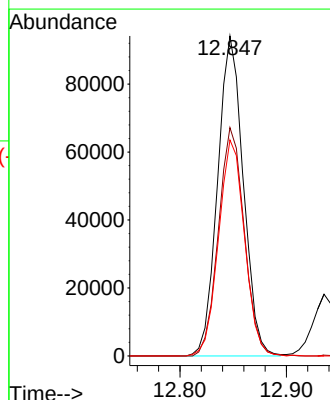
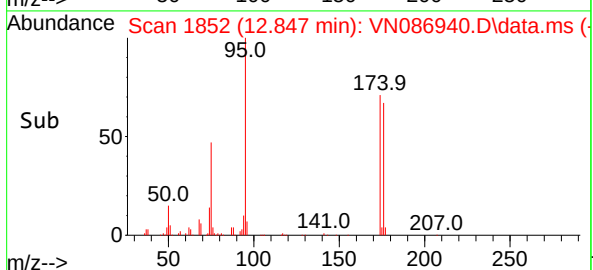
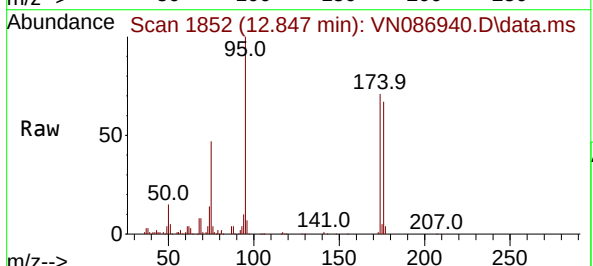
Manual Integrations
APPROVED

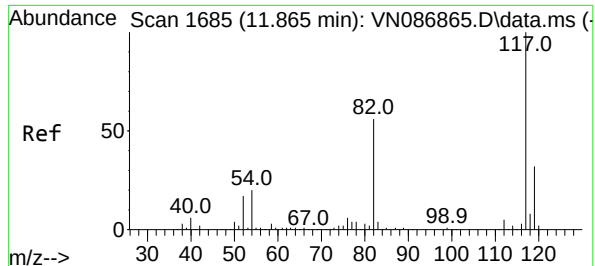
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#62
4-Bromofluorobenzene
Concen: 50.489 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

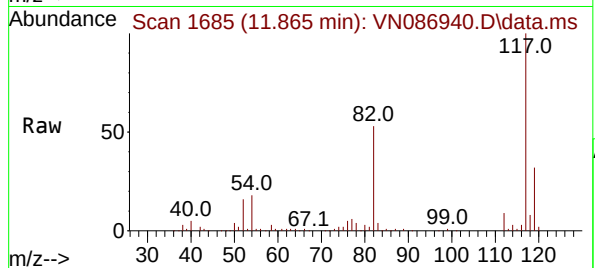
Tgt Ion: 95 Resp: 157388
Ion Ratio Lower Upper
95 100
174 71.7 0.0 141.8
176 68.2 0.0 132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

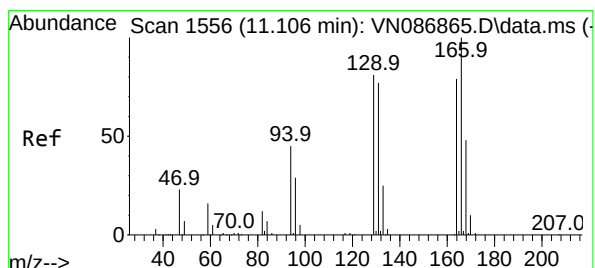
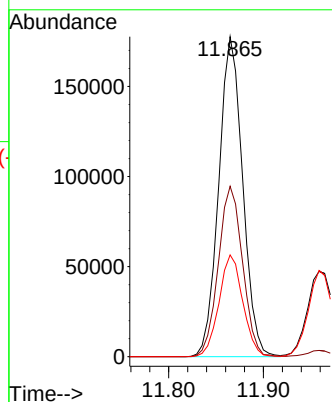
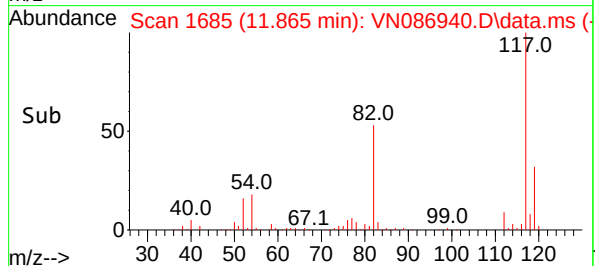
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:117 Resp: 31217
Ion Ratio Lower Upper
117 100
82 53.3 44.6 67.0
119 31.8 25.5 38.3

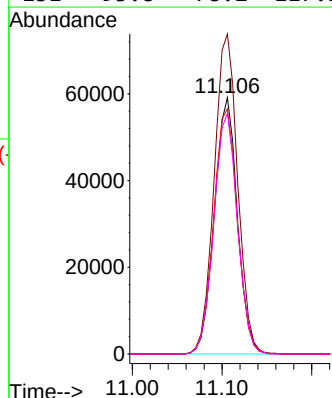
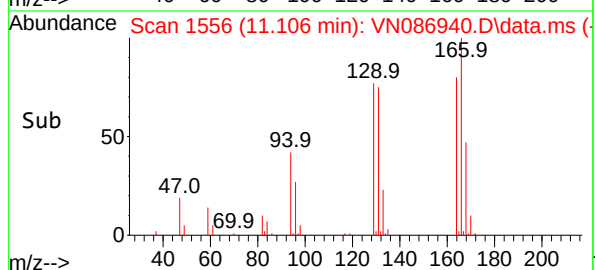
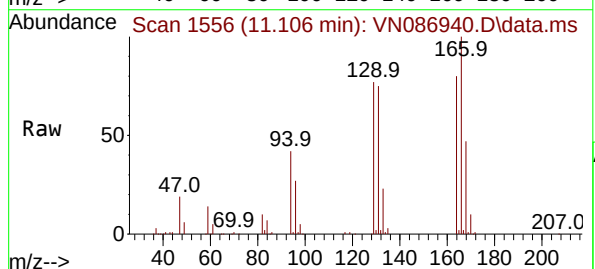
Manual Integrations
APPROVED

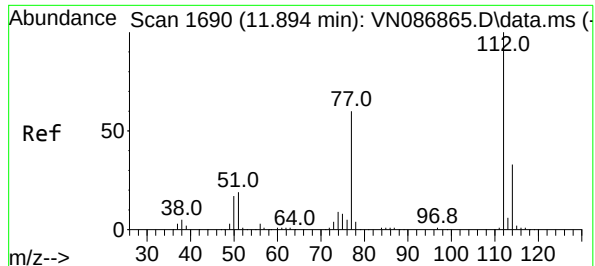
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#64
Tetrachloroethene
Concen: 53.190 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

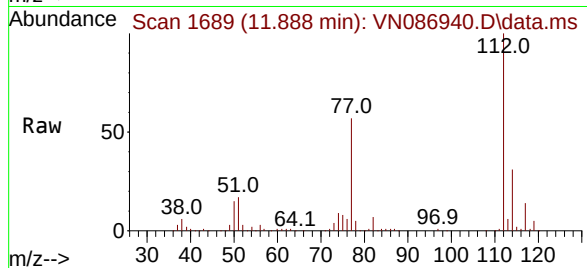
Tgt Ion:164 Resp: 105084
Ion Ratio Lower Upper
164 100
166 124.8 101.8 152.8
129 95.6 83.0 124.4
131 93.8 78.2 117.2





#65
Chlorobenzene
Concen: 55.424 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

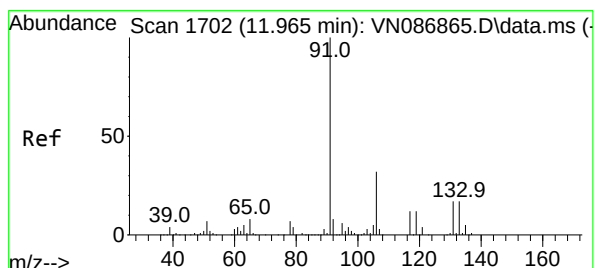
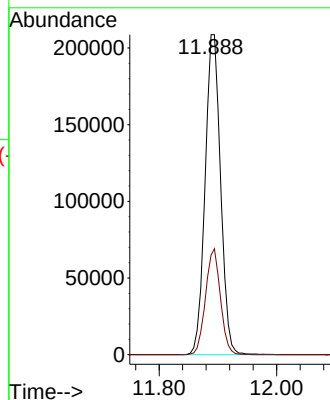
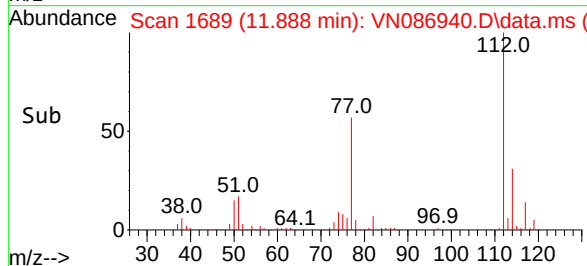
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



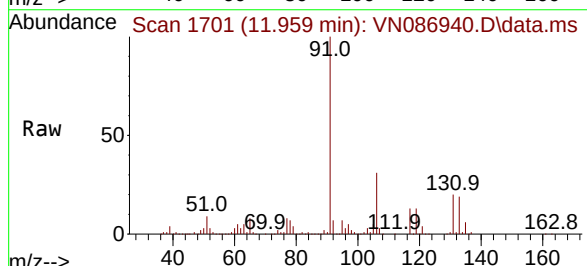
Tgt Ion:112 Resp: 381598
Ion Ratio Lower Upper
112 100
114 31.1 26.2 39.2

Manual Integrations
APPROVED

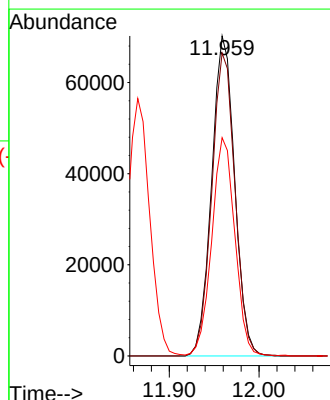
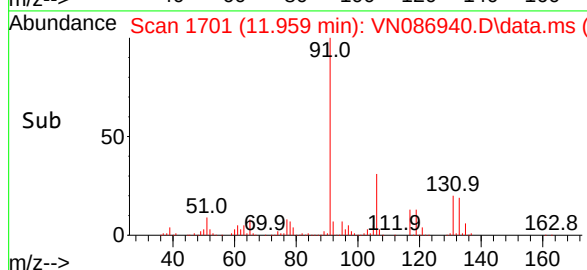
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

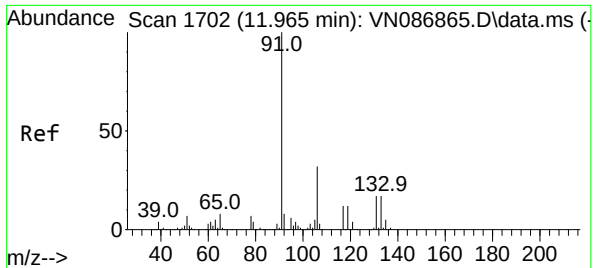


#66
1,1,1,2-Tetrachloroethane
Concen: 56.463 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32



Tgt Ion:131 Resp: 124964
Ion Ratio Lower Upper
131 100
133 95.4 48.3 144.8
119 68.5 34.0 101.8





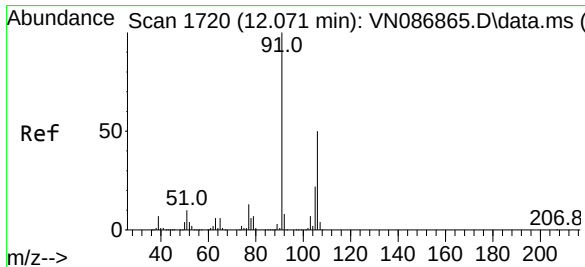
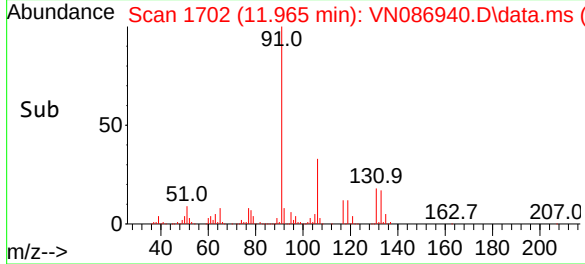
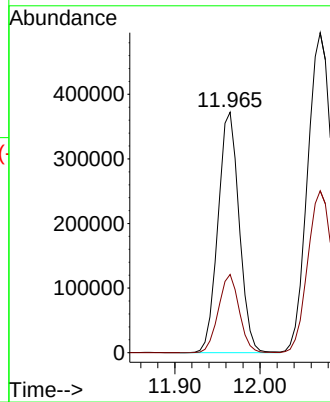
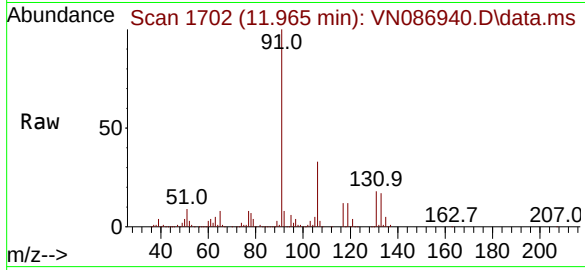
#67
Ethyl Benzene
Concen: 54.206 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 64285
Ion Ratio Lower Upper
91 100
106 32.5 25.4 38.2

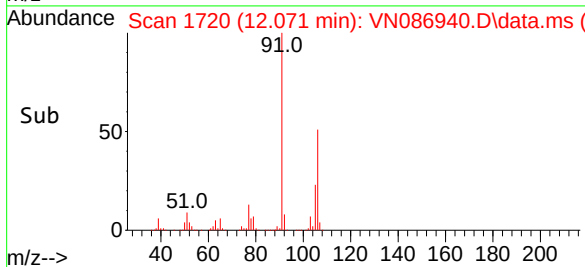
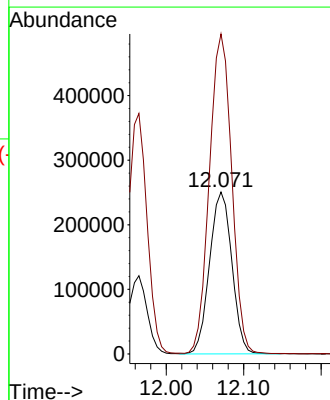
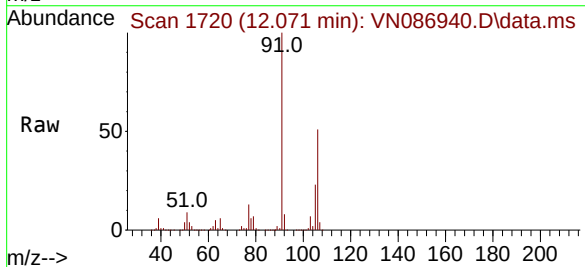
Manual Integrations
APPROVED

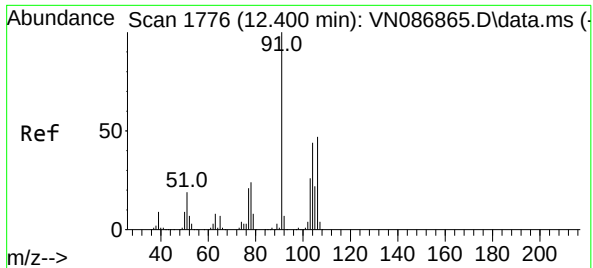
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#68
m/p-Xylenes
Concen: 110.334 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Tgt Ion:106 Resp: 500895
Ion Ratio Lower Upper
106 100
91 198.0 159.4 239.0





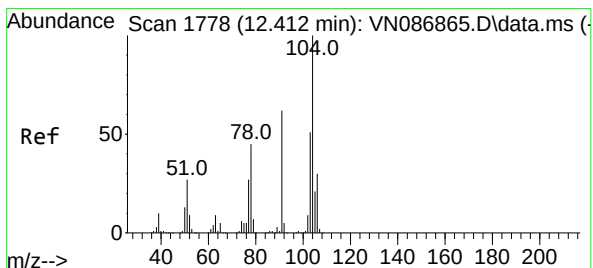
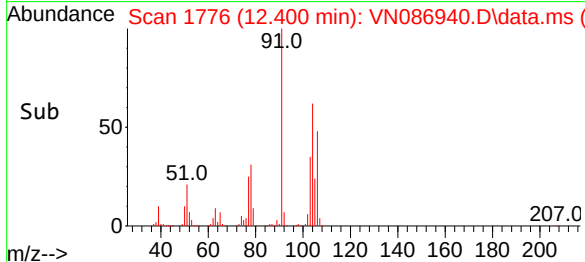
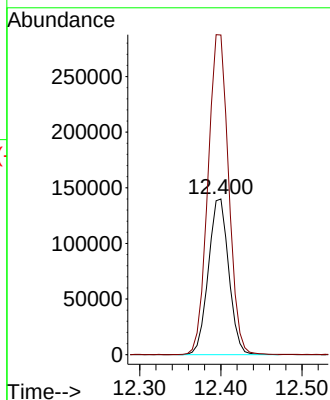
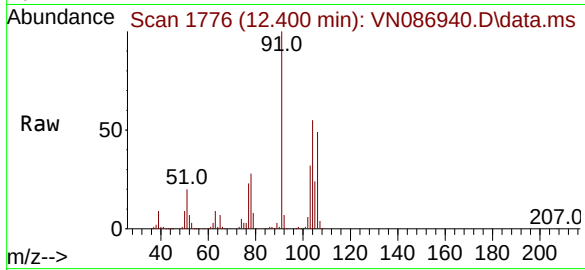
#69
o-Xylene
Concen: 56.127 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 244038
Ion Ratio Lower Upper
106 100
91 208.5 106.1 318.1

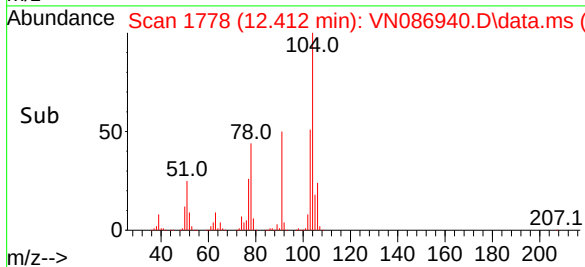
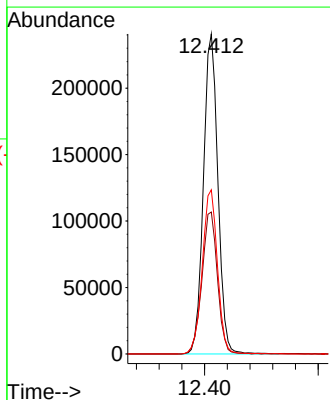
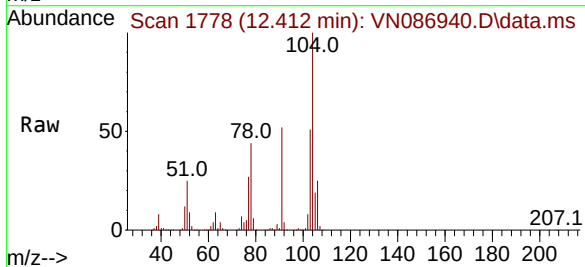
Manual Integrations
APPROVED

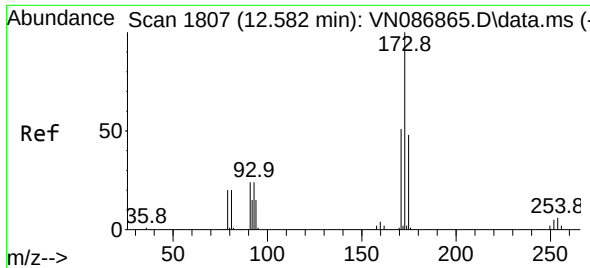
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#70
Styrene
Concen: 56.996 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

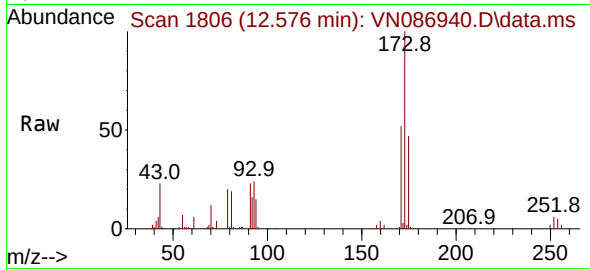
Tgt Ion:104 Resp: 424060
Ion Ratio Lower Upper
104 100
78 47.4 38.5 57.7
103 53.9 43.1 64.7





#71
Bromoform
Concen: 60.747 ug/l
RT: 12.576 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

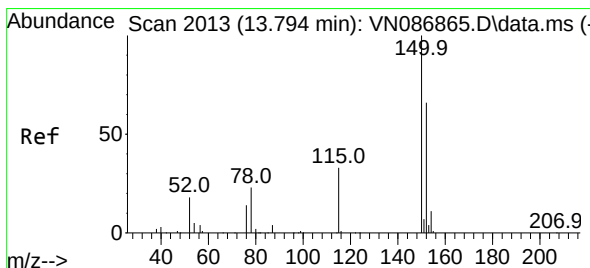
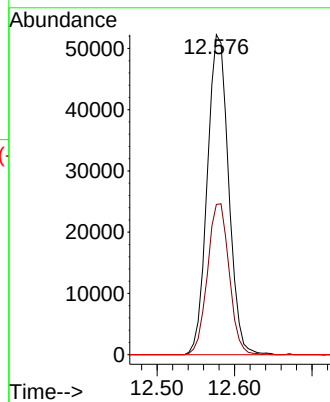
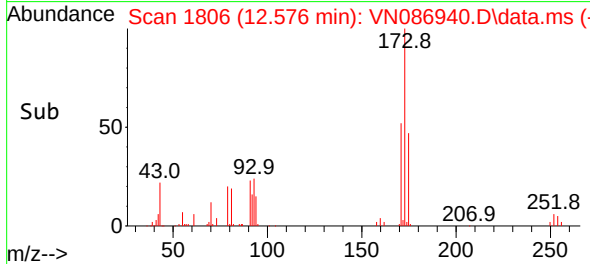
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



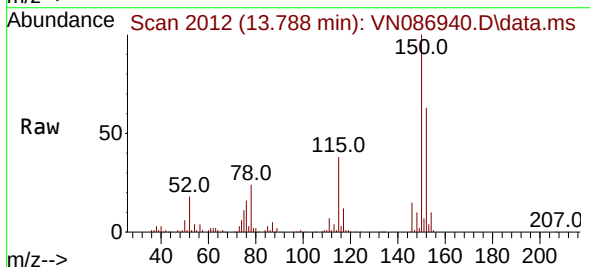
Tgt Ion:173 Resp: 99610
Ion Ratio Lower Upper
173 100
175 48.1 24.1 72.4
254 0.0 0.0 0.0

Manual Integrations
APPROVED

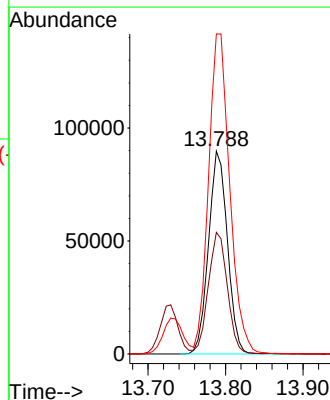
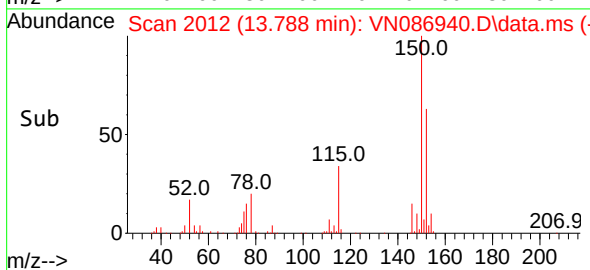
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

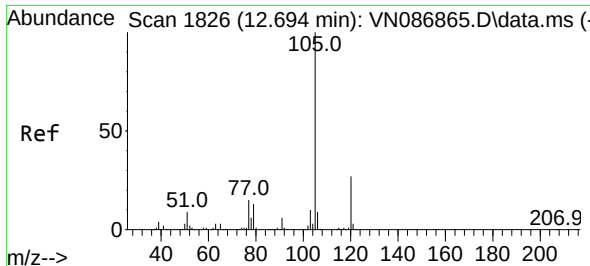


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32



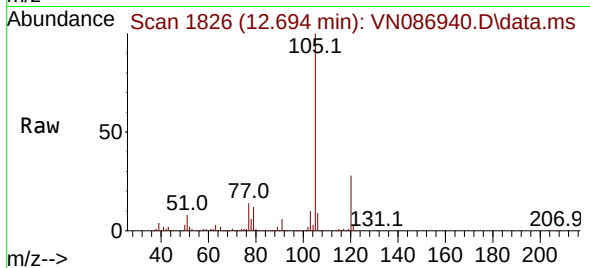
Tgt Ion:152 Resp: 152136
Ion Ratio Lower Upper
152 100
115 60.1 30.1 90.5
150 176.5 0.0 345.0





#73
Isopropylbenzene
Concen: 53.511 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

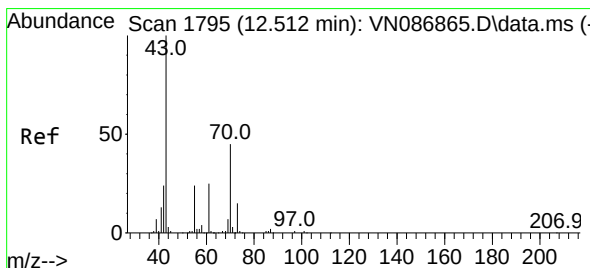
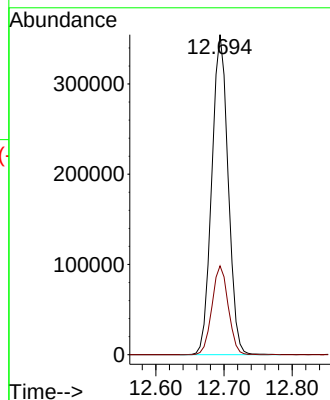
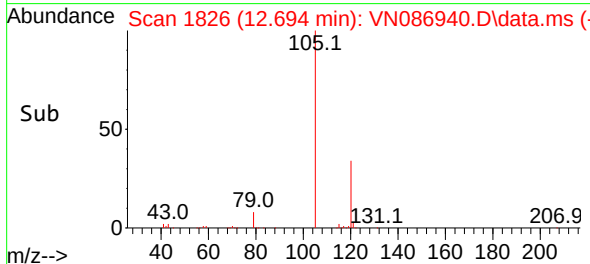
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:105 Resp: 593080
Ion Ratio Lower Upper
105 100
120 27.5 13.5 40.4

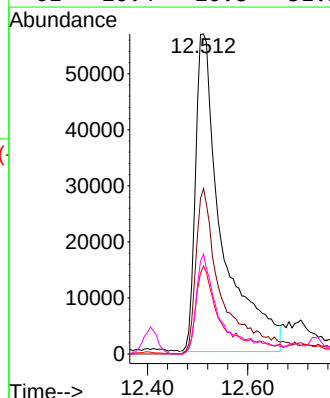
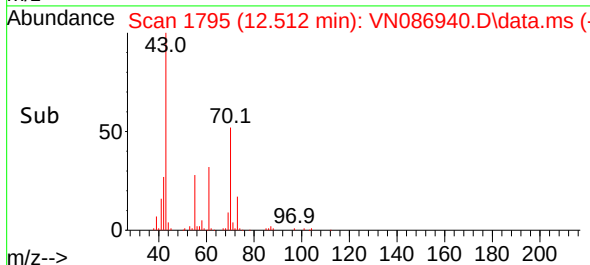
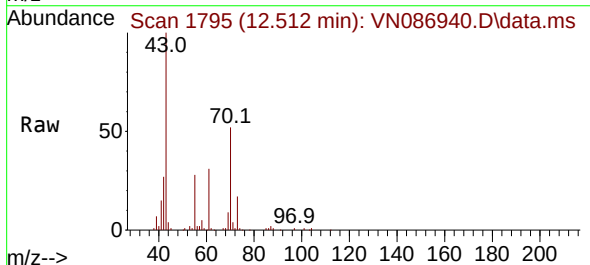
Manual Integrations
APPROVED

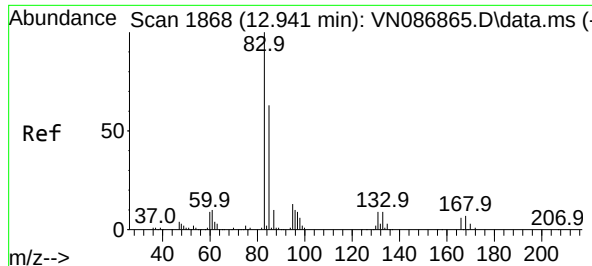
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#74
N-ethyl acetate
Concen: 53.765 ug/l
RT: 12.512 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Tgt Ion: 43 Resp: 208229
Ion Ratio Lower Upper
43 100
70 52.6 37.6 56.4
55 26.6 19.0 28.6
61 26.4 20.8 31.2





#75

1,1,2,2-Tetrachloroethane

Concen: 56.816 ug/l

RT: 12.935 min Scan# 1867

Delta R.T. -0.006 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 213329

Ion Ratio Lower Upper

83 100

131 9.8 4.9 14.7

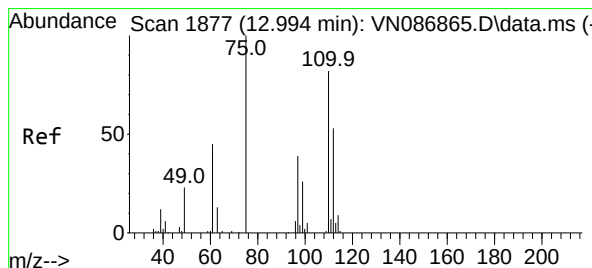
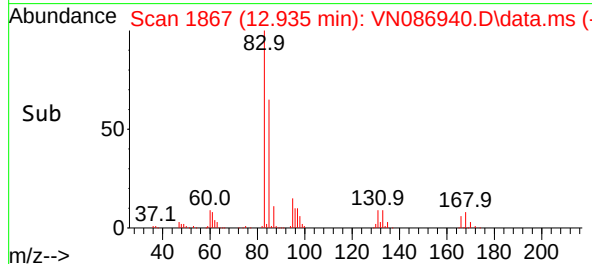
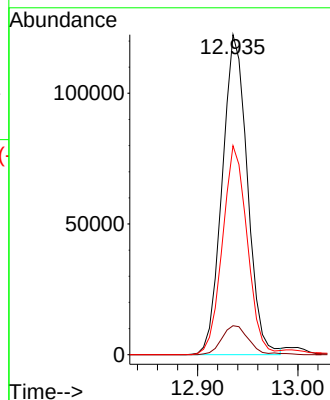
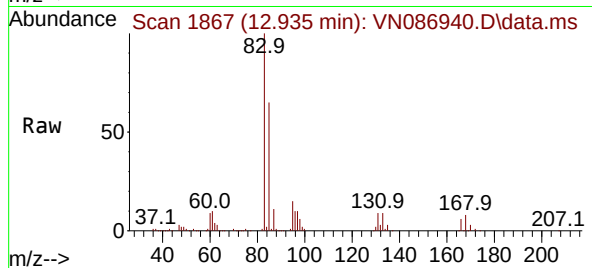
85 64.5 32.0 96.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#76

1,2,3-Trichloropropane

Concen: 49.771 ug/l m

RT: 12.994 min Scan# 1877

Delta R.T. -0.000 min

Lab File: VN086940.D

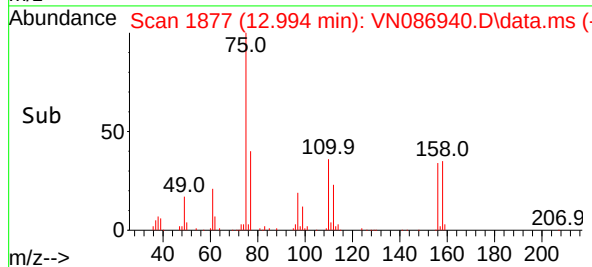
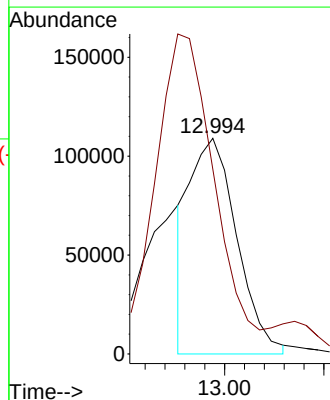
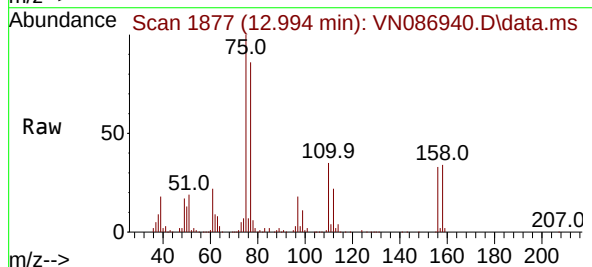
Acq: 11 Jun 2025 11:32

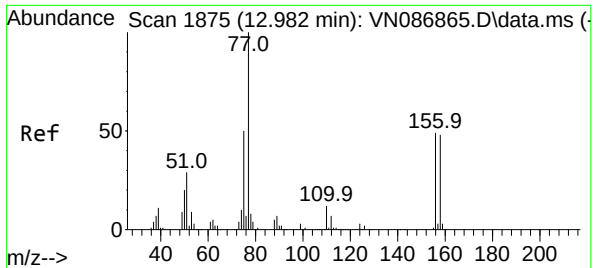
Tgt Ion: 75 Resp: 179987

Ion Ratio Lower Upper

75 100

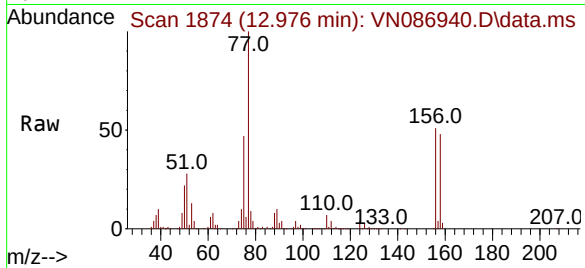
77 187.3 79.3 237.9





#77
Bromobenzene
Concen: 57.512 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

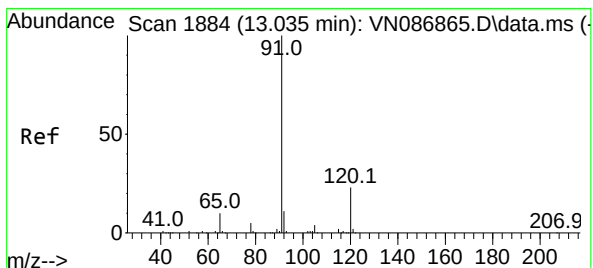
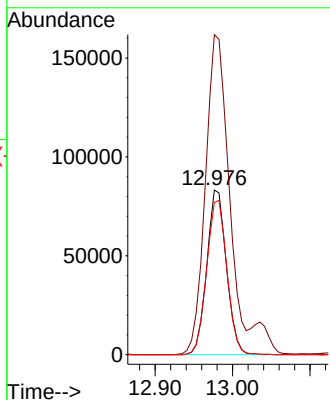
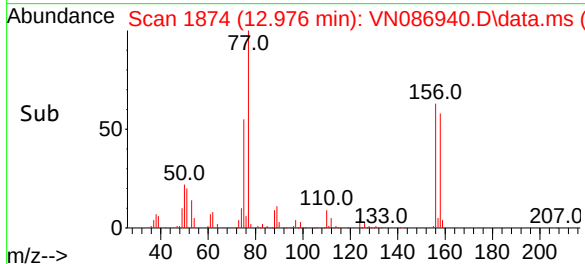
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:156 Resp: 14618
Ion Ratio Lower Upper
156 100
77 230.6 117.7 353.1
158 97.1 48.1 144.4

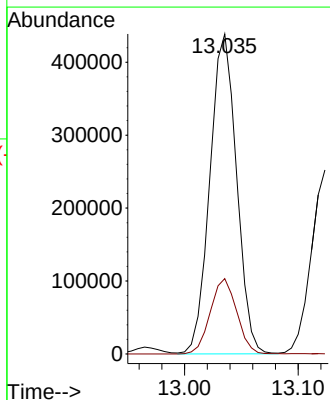
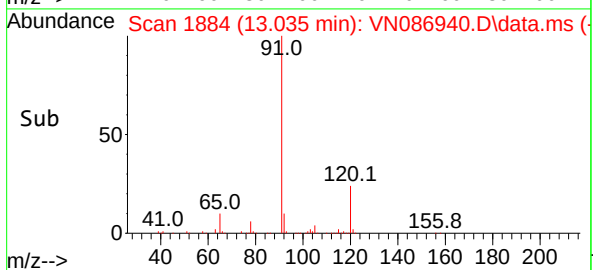
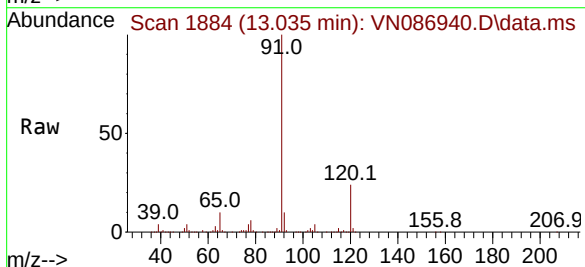
Manual Integrations
APPROVED

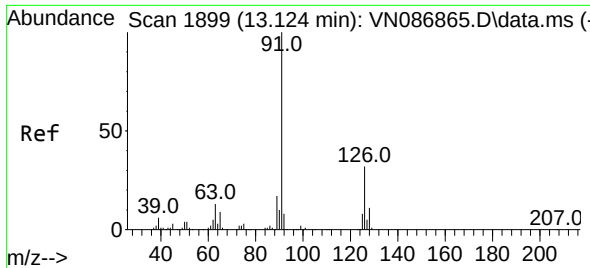
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#78
n-propylbenzene
Concen: 53.234 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Tgt Ion: 91 Resp: 717012
Ion Ratio Lower Upper
91 100
120 23.3 11.4 34.2





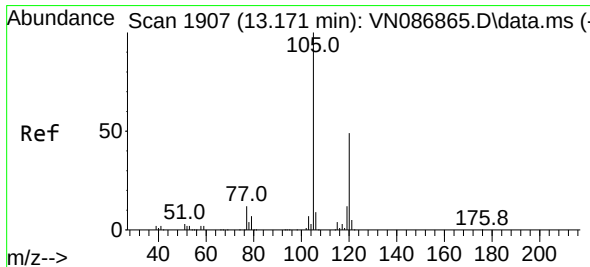
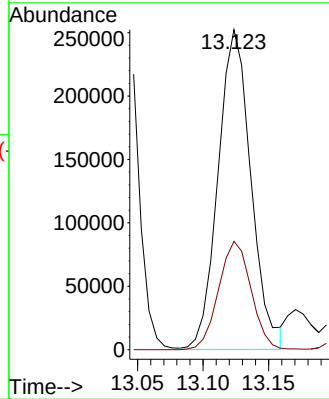
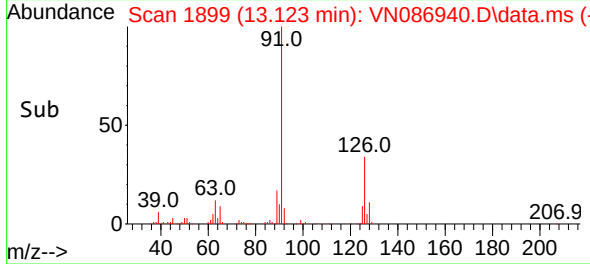
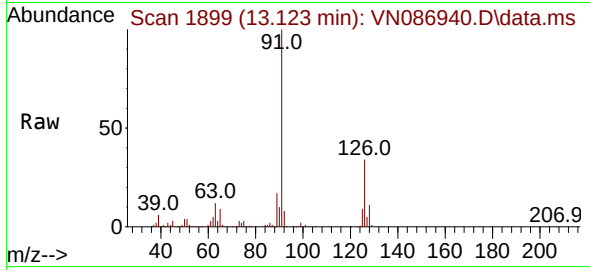
#79
2-Chlorotoluene
Concen: 54.413 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 43952
Ion Ratio Lower Upper
91 100
126 33.4 16.2 48.5

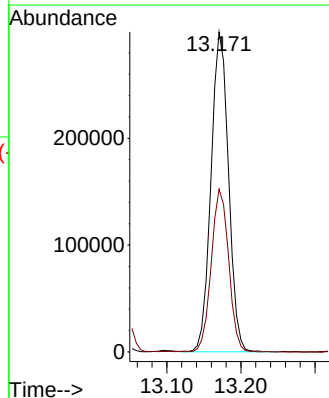
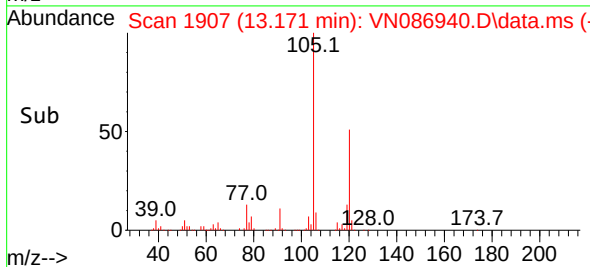
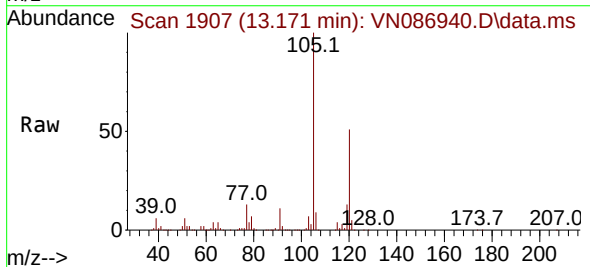
Manual Integrations
APPROVED

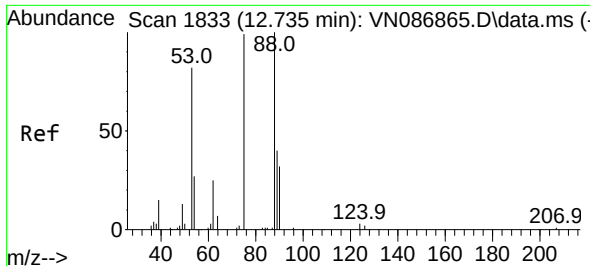
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#80
1,3,5-Trimethylbenzene
Concen: 53.628 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

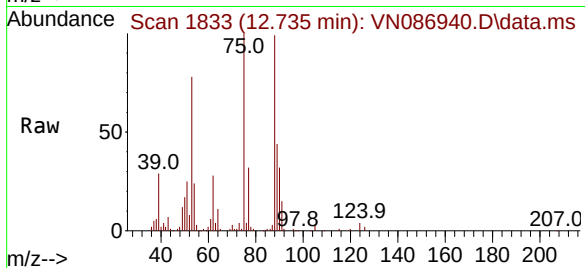
Tgt Ion:105 Resp: 490727
Ion Ratio Lower Upper
105 100
120 50.8 24.9 74.6





#81
trans-1,4-Dichloro-2-butene
Concen: 59.701 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

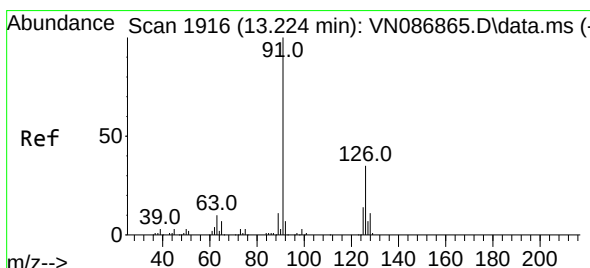
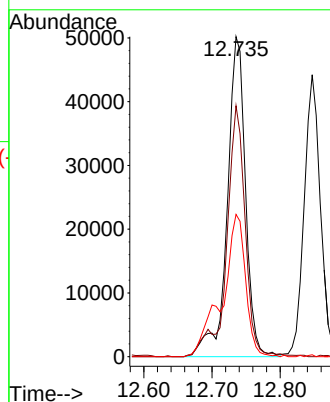
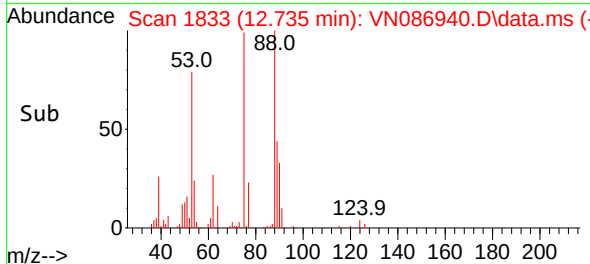
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion: 75 Resp: 93790
Ion Ratio Lower Upper
75 100
53 74.1 66.6 99.8
89 57.1 36.7 55.1

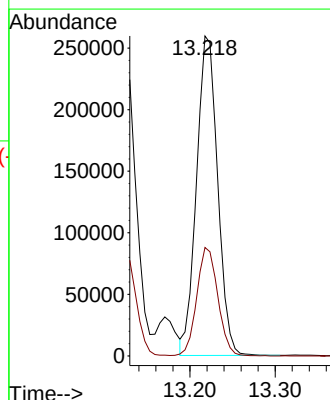
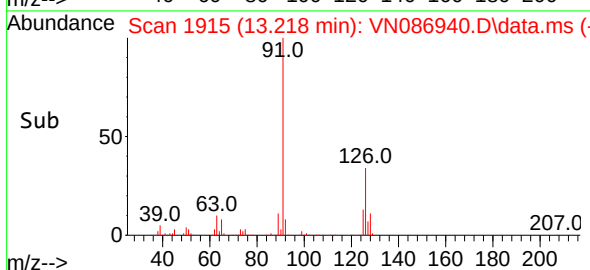
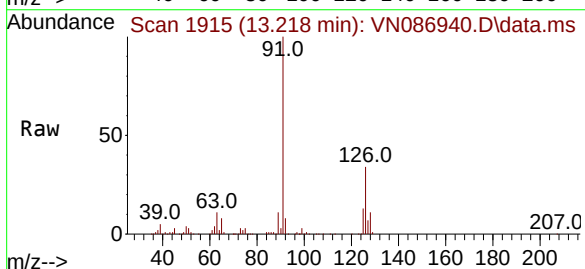
Manual Integrations
APPROVED

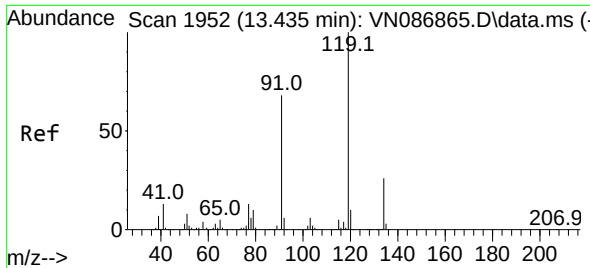
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#82
4-Chlorotoluene
Concen: 54.598 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

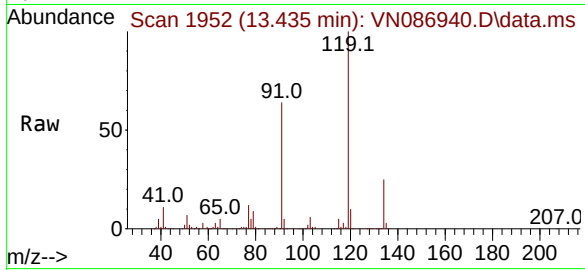
Tgt Ion: 91 Resp: 446237
Ion Ratio Lower Upper
91 100
126 34.0 16.7 50.1





#83
tert-Butylbenzene
Concen: 53.498 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

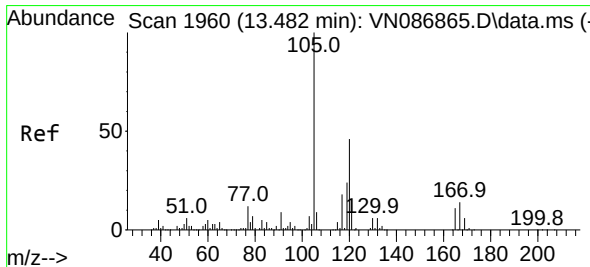
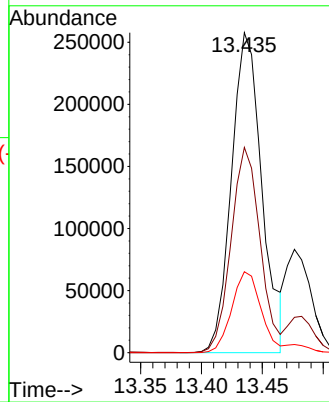
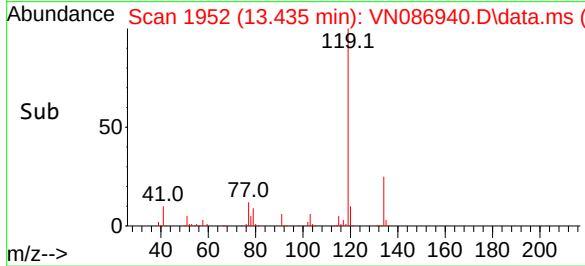
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



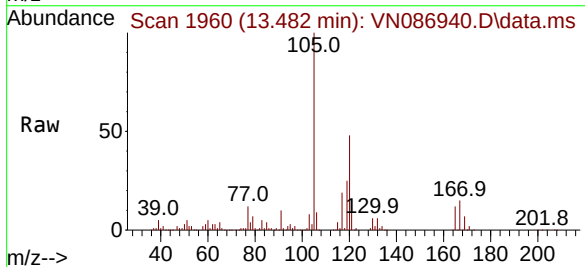
Tgt Ion:119 Resp: 448100
Ion Ratio Lower Upper
119 100
91 61.2 32.1 96.5
134 26.3 13.4 40.1

Manual Integrations
APPROVED

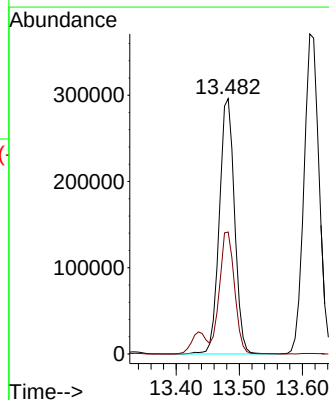
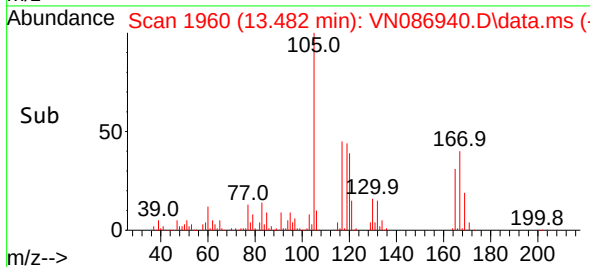
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

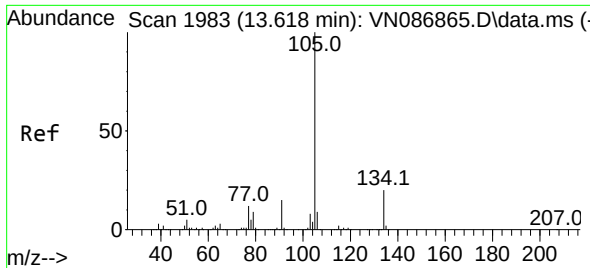


#84
1,2,4-Trimethylbenzene
Concen: 54.048 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32



Tgt Ion:105 Resp: 495936
Ion Ratio Lower Upper
105 100
120 47.2 23.2 69.6





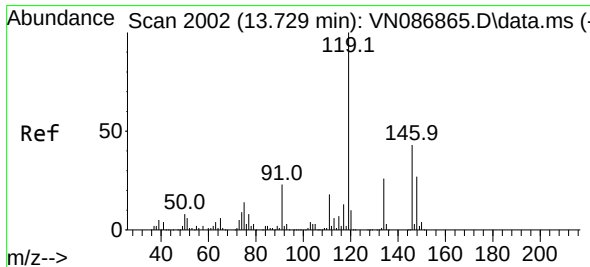
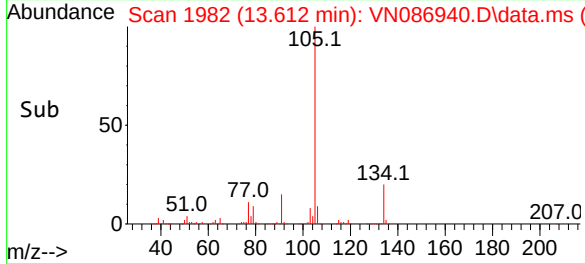
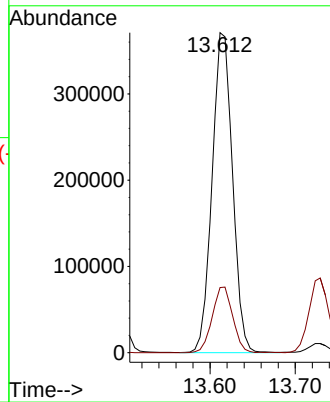
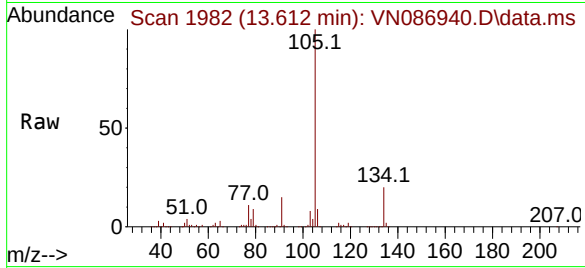
#85
sec-Butylbenzene
Concen: 50.788 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 617792
Ion Ratio Lower Upper
105 100
134 20.6 10.0 30.0

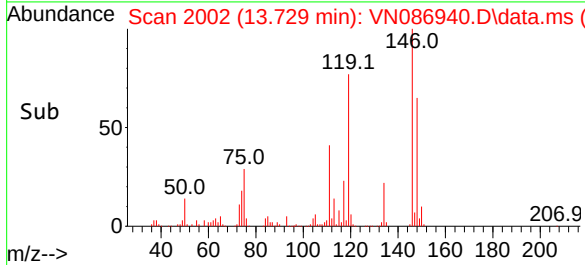
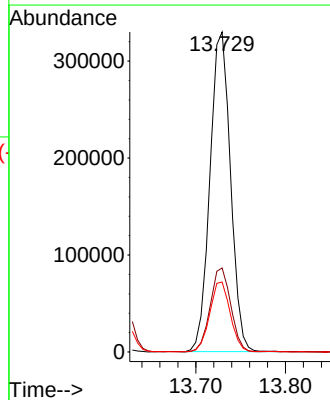
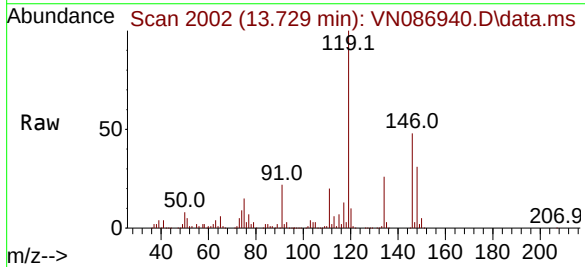
Manual Integrations
APPROVED

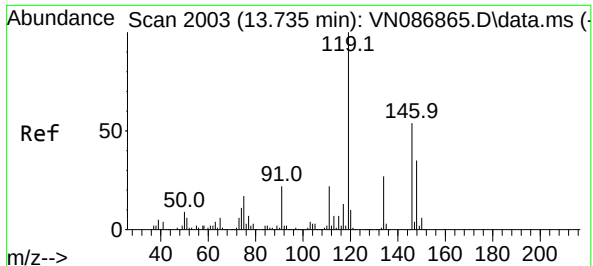
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#86
p-Isopropyltoluene
Concen: 52.156 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Tgt Ion:119 Resp: 524440
Ion Ratio Lower Upper
119 100
134 26.4 13.5 40.4
91 21.8 11.5 34.4





#87

1,3-Dichlorobenzene

Concen: 56.062 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.006 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

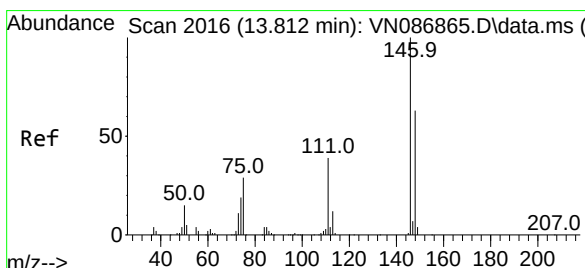
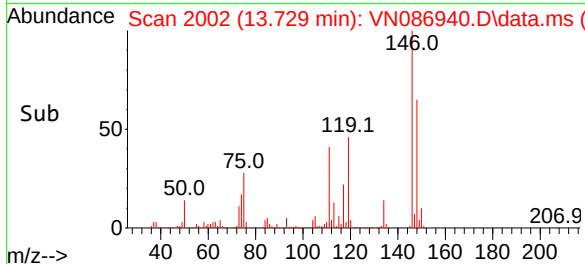
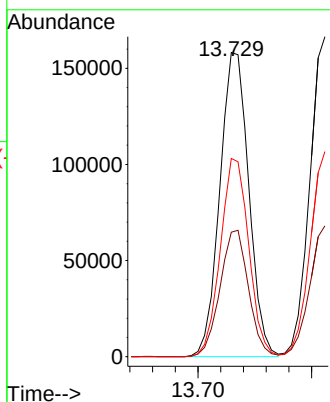
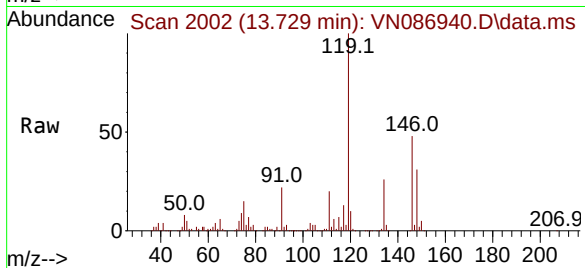
Tgt Ion:	146	Resp:	28035
Ion Ratio	Lower	Upper	
146	100		
111	40.9	20.9	62.8
148	63.8	32.0	96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#88

1,4-Dichlorobenzene

Concen: 56.315 ug/l

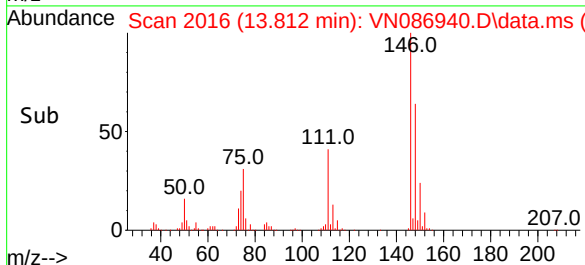
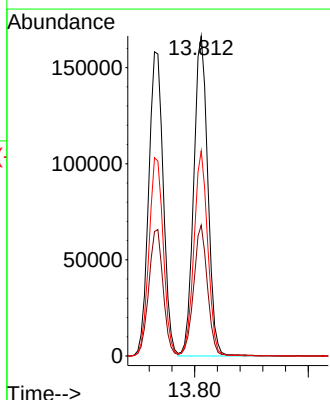
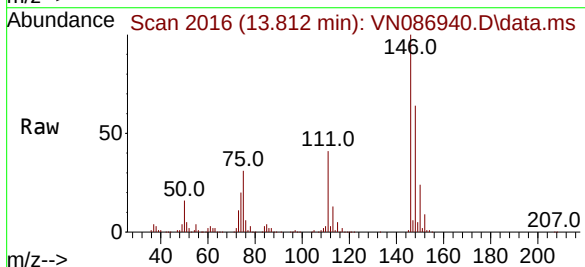
RT: 13.812 min Scan# 2016

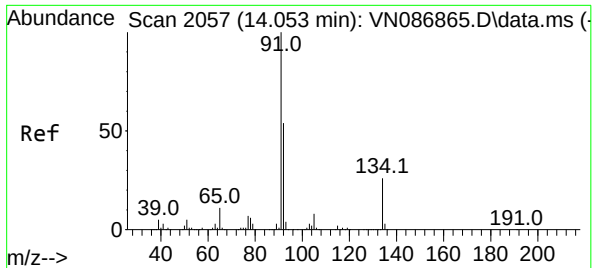
Delta R.T. -0.000 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Tgt Ion:	146	Resp:	287122
Ion Ratio	Lower	Upper	
146	100		
111	39.5	19.9	59.7
148	62.7	31.8	95.4





#89

n-Butylbenzene

Concen: 49.007 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 477300

Ion Ratio Lower Upper

91 100

92 54.9 27.5 82.4

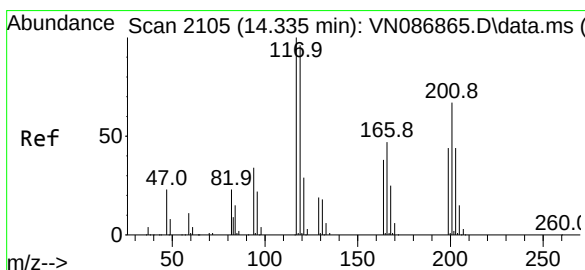
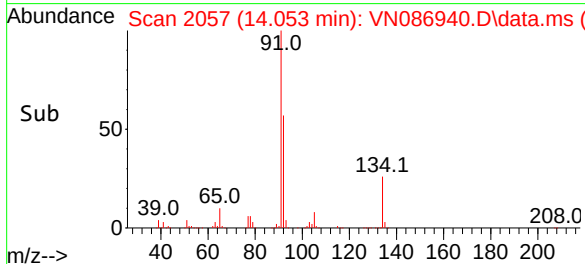
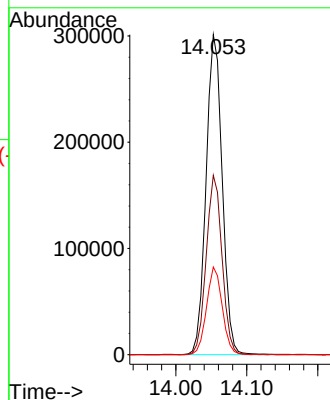
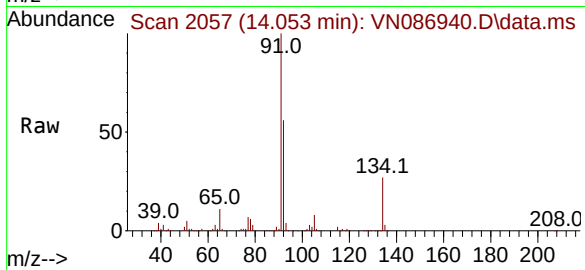
134 26.6 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#90

Hexachloroethane

Concen: 52.738 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.006 min

Lab File: VN086940.D

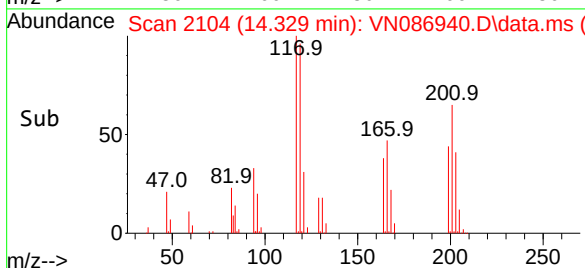
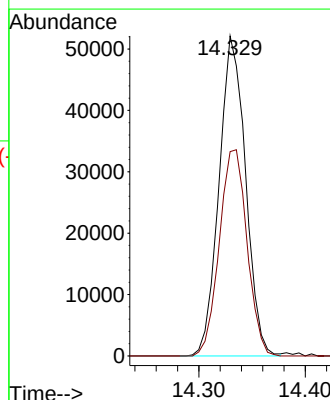
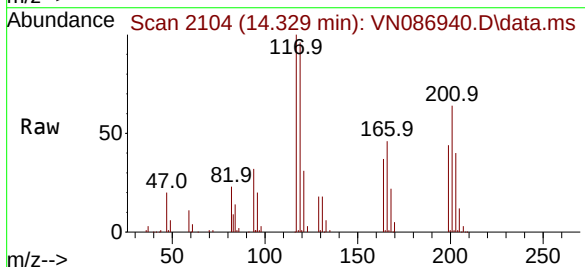
Acq: 11 Jun 2025 11:32

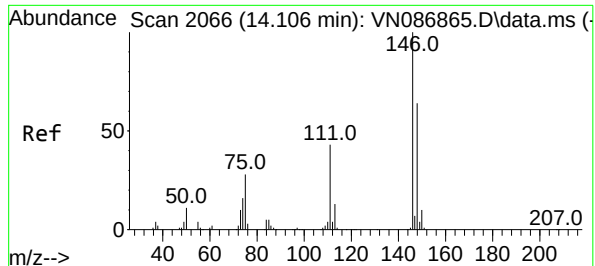
Tgt Ion:117 Resp: 89886

Ion Ratio Lower Upper

117 100

201 67.6 33.2 99.6





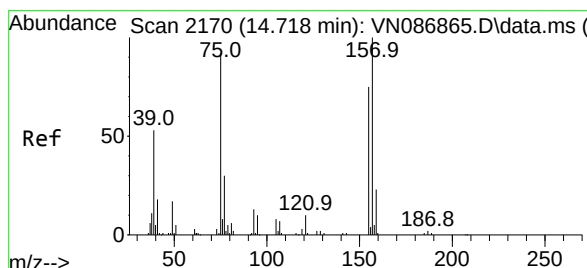
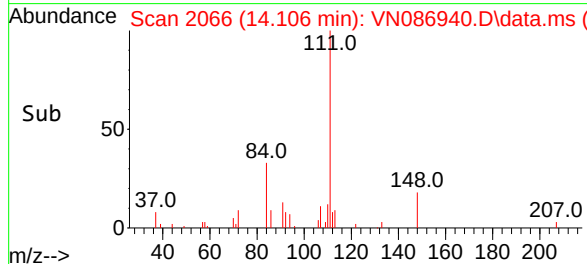
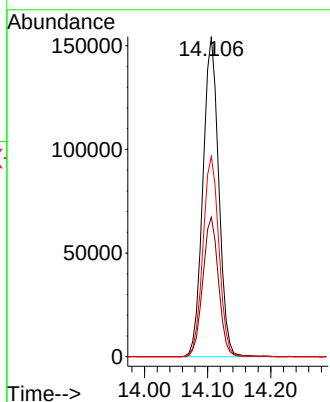
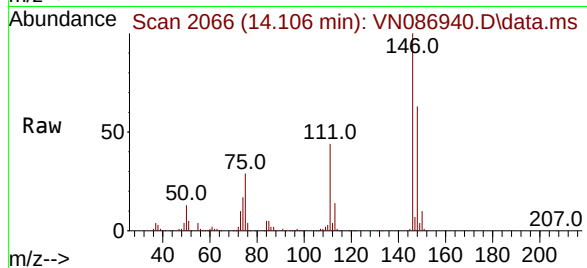
#91
1,2-Dichlorobenzene
Concen: 55.766 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050

Tgt Ion:146 Resp: 267932
Ion Ratio Lower Upper
146 100
111 43.2 21.6 64.6
148 63.3 31.7 95.1

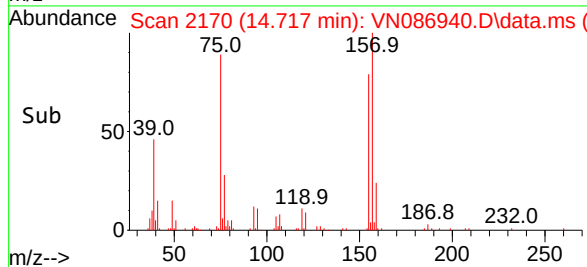
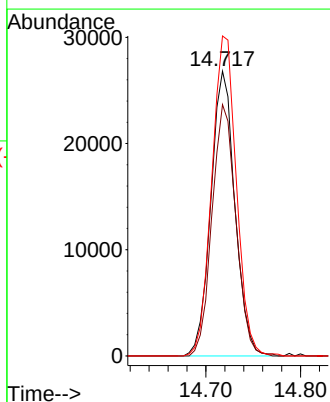
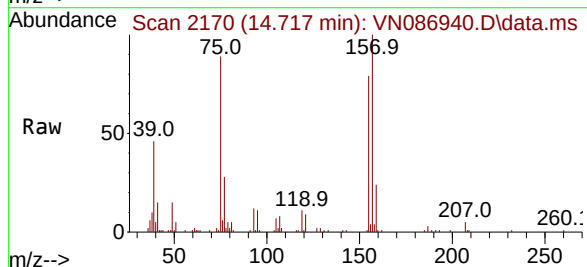
Manual Integrations
APPROVED

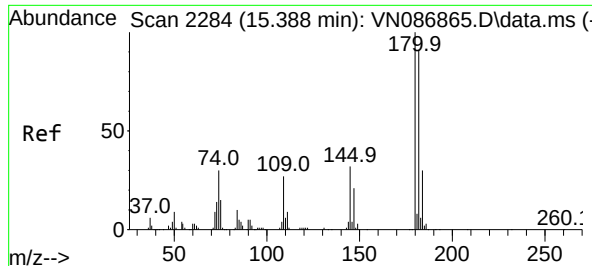
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 52.704 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Tgt Ion: 75 Resp: 47326
Ion Ratio Lower Upper
75 100
155 87.3 41.1 123.4
157 114.9 52.7 158.1





#93

1,2,4-Trichlorobenzene

Concen: 52.161 ug/l

RT: 15.388 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC050

Tgt Ion:180 Resp: 160030

Ion Ratio Lower Upper

180 100

182 92.1 46.9 140.7

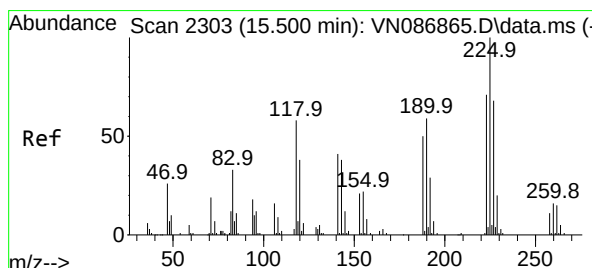
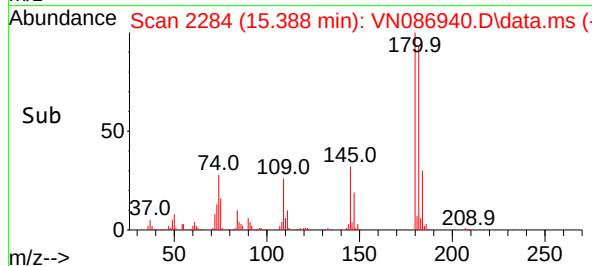
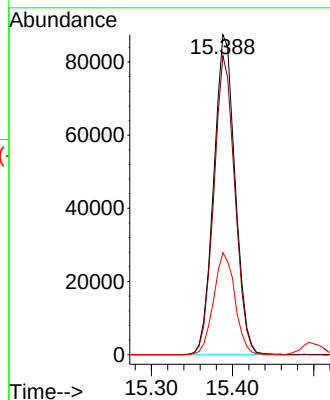
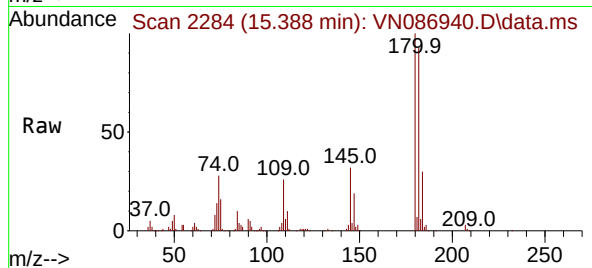
145 31.7 16.0 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#94

Hexachlorobutadiene

Concen: 44.682 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN086940.D

Acq: 11 Jun 2025 11:32

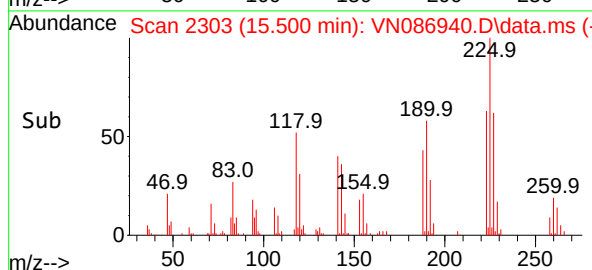
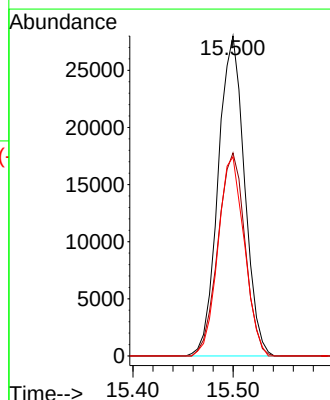
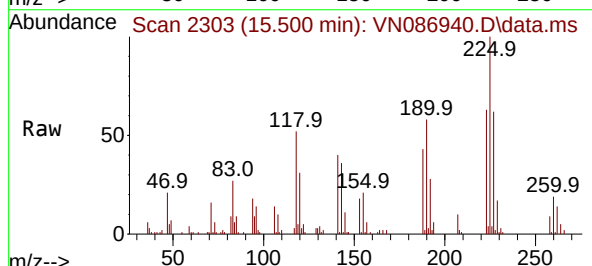
Tgt Ion:225 Resp: 51073

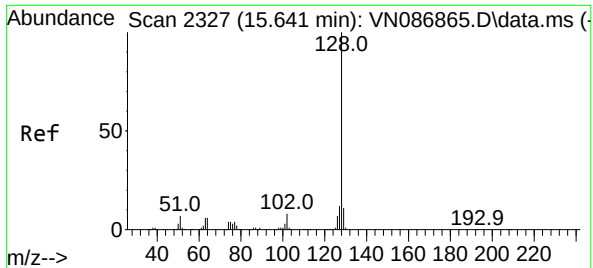
Ion Ratio Lower Upper

225 100

223 65.0 33.5 100.4

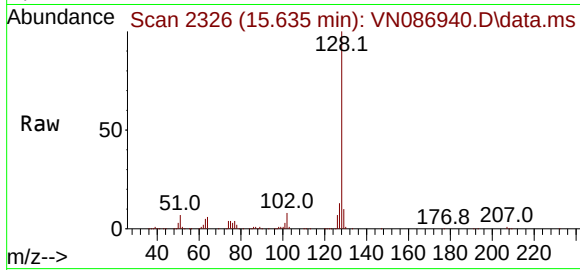
227 62.2 31.1 93.5





#95
Naphthalene
Concen: 54.679 ug/l
RT: 15.635 min Scan# 2327
Delta R.T. -0.006 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

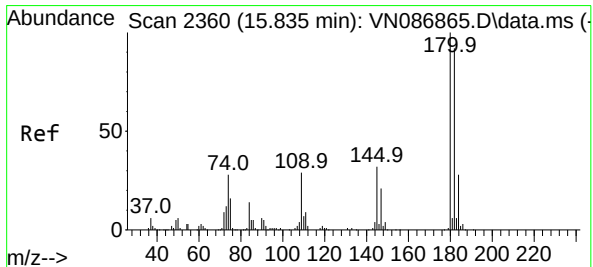
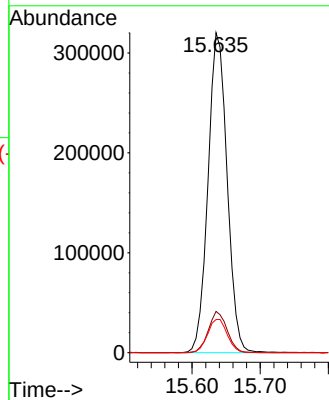
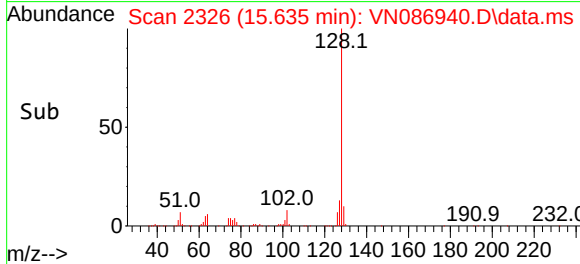
Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC050



Tgt Ion:128 Resp: 62442
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.2
129 10.8 8.8 13.2

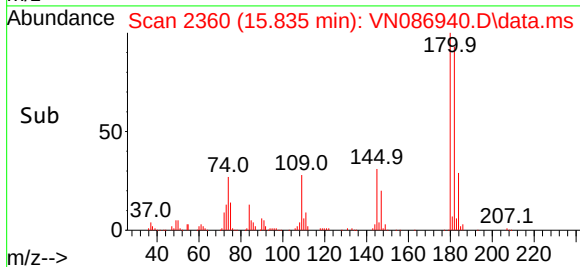
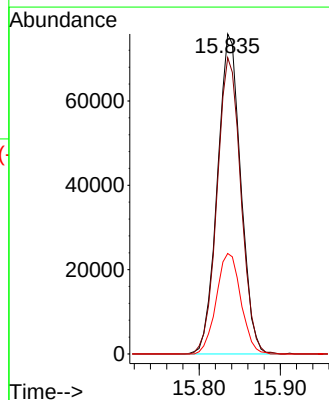
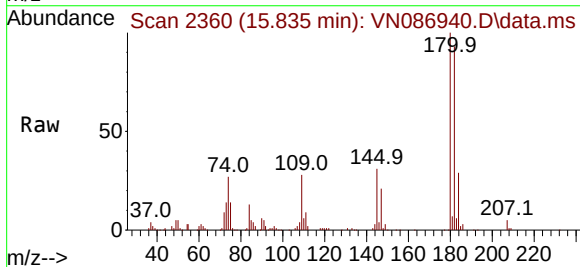
Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#96
1,2,3-Trichlorobenzene
Concen: 49.672 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086940.D
Acq: 11 Jun 2025 11:32

Tgt Ion:180 Resp: 151411
Ion Ratio Lower Upper
180 100
182 94.5 47.0 141.0
145 33.0 16.6 49.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086940.D
Acq On : 11 Jun 2025 11:32
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 12 01:28:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	99	0.00
2 T	Dichlorodifluoromethane	0.499	0.538	-7.8	106	0.00
3 P	Chloromethane	0.644	0.555	13.8	92	0.00
4 C	Vinyl Chloride	0.664	0.701	-5.6#	108	0.00
5 T	Bromomethane	0.372	0.312	16.1	86	0.00
6 T	Chloroethane	0.429	0.457	-6.5	111	0.00
7 T	Trichlorofluoromethane	0.868	0.930	-7.1	110	0.00
8 T	Diethyl Ether	0.378	0.418	-10.6	114	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.545	0.582	-6.8	111	0.00
10 T	Methyl Iodide	0.707	0.565	20.1	82	0.01
11 T	Tert butyl alcohol	0.182	0.178	2.2	100	0.00
12 CM	1,1-Dichloroethene	0.557	0.593	-6.5#	110	0.00
13 T	Acrolein	0.057	0.066	-15.8	145	0.00
14 T	Allyl chloride	0.923	0.912	1.2	104	0.00
15 T	Acrylonitrile	0.425	0.446	-4.9	108	0.00
16 T	Acetone	0.355	0.384	-8.2	118	0.00
17 T	Carbon Disulfide	1.539	1.505	2.2	104	0.00
18 T	Methyl Acetate	1.035	1.085	-4.8	109	0.00
19 T	Methyl tert-butyl Ether	2.015	2.172	-7.8	111	0.00
20 T	Methylene Chloride	0.665	0.673	-1.2	110	0.00
21 T	trans-1,2-Dichloroethene	0.619	0.633	-2.3	110	0.00
22 T	Diisopropyl ether	1.945	2.009	-3.3	107	0.00
23 T	Vinyl Acetate	1.644	1.722	-4.7	107	0.00
24 P	1,1-Dichloroethane	1.120	1.178	-5.2	110	0.00
25 T	2-Butanone	0.577	0.568	1.6	102	0.00
26 T	2,2-Dichloropropane	0.871	1.049	-20.4	115	0.00
27 T	cis-1,2-Dichloroethene	0.740	0.793	-7.2	112	0.00
28 T	Bromochloromethane	0.550	0.578	-5.1	122	0.00
29 T	Tetrahydrofuran	0.376	0.371	1.3	102	0.00
30 C	Chloroform	1.118	1.176	-5.2#	110	0.00
31 T	Cyclohexane	1.086	1.017	6.4	100	0.00
32 T	1,1,1-Trichloroethane	0.951	0.976	-2.6	108	0.00
33 S	1,2-Dichloroethane-d4	0.669	0.622	7.0	123	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
35 S	Dibromofluoromethane	0.296	0.309	-4.4	133	0.00
36 T	1,1-Dichloropropene	0.442	0.483	-9.3	109	0.00
37 T	Ethyl Acetate	0.562	0.592	-5.3	104	0.00
38 T	Carbon Tetrachloride	0.433	0.472	-9.0	109	0.00
39 T	Methylcyclohexane	0.605	0.576	4.8	95	0.00
40 TM	Benzene	1.444	1.553	-7.5	109	0.00
41 T	Methacrylonitrile	0.316	0.322	-1.9	100	0.00
42 TM	1,2-Dichloroethane	0.438	0.472	-7.8	108	0.00
43 T	Isopropyl Acetate	0.902	0.946	-4.9	105	0.00
44 TM	Trichloroethene	0.342	0.382	-11.7	110	0.00
45 C	1,2-Dichloropropane	0.351	0.384	-9.4#	109	0.00
46 T	Dibromomethane	0.233	0.265	-13.7	113	0.00
47 T	Bromodichloromethane	0.480	0.532	-10.8	110	0.00
48 T	Methyl methacrylate	0.415	0.431	-3.9	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086940.D
Acq On : 11 Jun 2025 11:32
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 12 01:28:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	0.008	0.009	-12.5	103	0.00
50 S	Toluene-d8	1.173	1.181	-0.7	130	0.00
51 T	4-Methyl-2-Pentanone	0.543	0.590	-8.7	104	0.00
52 CM	Toluene	0.882	0.978	-10.9#	111	0.00
53 T	t-1,3-Dichloropropene	0.537	0.609	-13.4	110	0.00
54 T	cis-1,3-Dichloropropene	0.574	0.661	-15.2	113	0.00
55 T	1,1,2-Trichloroethane	0.340	0.383	-12.6	112	0.00
56 T	Ethyl methacrylate	0.541	0.647	-19.6	110	0.00
57 T	1,3-Dichloropropane	0.589	0.651	-10.5	110	0.00
58 T	2-Chloroethyl Vinyl ether	0.323	0.372	-15.2	128	0.00
59 T	2-Hexanone	0.350	0.395	-12.9	101	0.00
60 T	Dibromochloromethane	0.354	0.414	-16.9	115	0.00
61 T	1,2-Dibromoethane	0.348	0.385	-10.6	111	0.00
62 S	4-Bromofluorobenzene	0.436	0.440	-0.9	128	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
64 T	Tetrachloroethene	0.316	0.337	-6.6	108	0.00
65 PM	Chlorobenzene	1.103	1.222	-10.8	112	0.00
66 T	1,1,1,2-Tetrachloroethane	0.354	0.400	-13.0	111	0.00
67 C	Ethyl Benzene	1.899	2.059	-8.4#	108	0.00
68 T	m/p-Xylenes	0.727	0.802	-10.3	107	0.00
69 T	o-Xylene	0.696	0.782	-12.4	109	0.00
70 T	Styrene	1.192	1.358	-13.9	110	0.00
71 P	Bromoform	0.263	0.319	-21.3	113	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
73 T	Isopropylbenzene	3.643	3.898	-7.0	103	0.00
74 T	N-amyl acetate	1.273	1.369	-7.5	98	0.00
75 P	1,1,2,2-Tetrachloroethane	1.234	1.402	-13.6	108	0.00
76 T	1,2,3-Trichloropropane	1.189	1.183	0.5	92	0.00
77 T	Bromobenzene	0.835	0.961	-15.1	110	0.00
78 T	n-propylbenzene	4.427	4.713	-6.5	102	0.00
79 T	2-Chlorotoluene	2.655	2.889	-8.8	105	0.00
80 T	1,3,5-Trimethylbenzene	3.007	3.226	-7.3	101	0.00
81 T	trans-1,4-Dichloro-2-butene	0.516	0.616	-19.4	118	0.00
82 T	4-Chlorotoluene	2.686	2.933	-9.2	105	0.00
83 T	tert-Butylbenzene	2.753	2.945	-7.0	102	0.00
84 T	1,2,4-Trimethylbenzene	3.016	3.260	-8.1	102	0.00
85 T	sec-Butylbenzene	3.998	4.061	-1.6	96	0.00
86 T	p-Isopropyltoluene	3.305	3.447	-4.3	98	0.00
87 T	1,3-Dichlorobenzene	1.644	1.843	-12.1	108	0.00
88 T	1,4-Dichlorobenzene	1.676	1.887	-12.6	109	0.00
89 T	n-Butylbenzene	3.201	3.137	2.0	93	0.00
90 T	Hexachloroethane	0.560	0.591	-5.5	100	0.00
91 T	1,2-Dichlorobenzene	1.579	1.761	-11.5	107	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.295	0.311	-5.4	104	0.00
93 T	1,2,4-Trichlorobenzene	1.008	1.052	-4.4	99	0.00
94 T	Hexachlorobutadiene	0.376	0.336	10.6	84	0.00
95 T	Naphthalene	3.753	4.104	-9.4	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086940.D
Acq On : 11 Jun 2025 11:32
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 12 01:28:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.002	0.995	0.7	95	0.00

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086940.D
Acq On : 11 Jun 2025 11:32
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 12 01:28:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	99	0.00
2 T	Dichlorodifluoromethane	50.000	53.916	-7.8	106	0.00
3 P	Chloromethane	50.000	43.069	13.9	92	0.00
4 C	Vinyl Chloride	50.000	52.773	-5.5#	108	0.00
5 T	Bromomethane	50.000	41.928	16.1	86	0.00
6 T	Chloroethane	50.000	53.253	-6.5	111	0.00
7 T	Trichlorofluoromethane	50.000	53.570	-7.1	110	0.00
8 T	Diethyl Ether	50.000	55.281	-10.6	114	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	53.364	-6.7	111	0.00
10 T	Methyl Iodide	50.000	39.959	20.1	82	0.01
11 T	Tert butyl alcohol	250.000	245.667	1.7	100	0.00
12 CM	1,1-Dichloroethene	50.000	53.307	-6.6#	110	0.00
13 T	Acrolein	250.000	288.340	-15.3	145	0.00
14 T	Allyl chloride	50.000	49.420	1.2	104	0.00
15 T	Acrylonitrile	250.000	262.349	-4.9	108	0.00
16 T	Acetone	250.000	270.423	-8.2	118	0.00
17 T	Carbon Disulfide	50.000	48.889	2.2	104	0.00
18 T	Methyl Acetate	50.000	52.419	-4.8	109	0.00
19 T	Methyl tert-butyl Ether	50.000	53.894	-7.8	111	0.00
20 T	Methylene Chloride	50.000	50.660	-1.3	110	0.00
21 T	trans-1,2-Dichloroethene	50.000	51.154	-2.3	110	0.00
22 T	Diisopropyl ether	50.000	51.639	-3.3	107	0.00
23 T	Vinyl Acetate	250.000	261.960	-4.8	107	0.00
24 P	1,1-Dichloroethane	50.000	52.602	-5.2	110	0.00
25 T	2-Butanone	250.000	246.018	1.6	102	0.00
26 T	2,2-Dichloropropane	50.000	60.206	-20.4	115	0.00
27 T	cis-1,2-Dichloroethene	50.000	53.551	-7.1	112	0.00
28 T	Bromochloromethane	50.000	52.462	-4.9	122	0.00
29 T	Tetrahydrofuran	250.000	246.502	1.4	102	0.00
30 C	Chloroform	50.000	52.589	-5.2#	110	0.00
31 T	Cyclohexane	50.000	46.846	6.3	100	0.00
32 T	1,1,1-Trichloroethane	50.000	51.307	-2.6	108	0.00
33 S	1,2-Dichloroethane-d4	50.000	46.478	7.0	123	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	94	0.00
35 S	Dibromofluoromethane	50.000	52.151	-4.3	133	0.00
36 T	1,1-Dichloropropene	50.000	54.664	-9.3	109	0.00
37 T	Ethyl Acetate	50.000	52.670	-5.3	104	0.00
38 T	Carbon Tetrachloride	50.000	54.485	-9.0	109	0.00
39 T	Methylcyclohexane	50.000	47.613	4.8	95	0.00
40 TM	Benzene	50.000	53.798	-7.6	109	0.00
41 T	Methacrylonitrile	50.000	51.017	-2.0	100	0.00
42 TM	1,2-Dichloroethane	50.000	53.833	-7.7	108	0.00
43 T	Isopropyl Acetate	50.000	52.442	-4.9	105	0.00
44 TM	Trichloroethene	50.000	55.842	-11.7	110	0.00
45 C	1,2-Dichloropropane	50.000	54.626	-9.3#	109	0.00
46 T	Dibromomethane	50.000	56.697	-13.4	113	0.00
47 T	Bromodichloromethane	50.000	55.440	-10.9	110	0.00
48 T	Methyl methacrylate	50.000	51.898	-3.8	103	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086940.D
Acq On : 11 Jun 2025 11:32
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 12 01:28:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	1128.409	-12.8	103	0.00
50 S	Toluene-d8	50.000	50.342	-0.7	130	0.00
51 T	4-Methyl-2-Pentanone	250.000	271.529	-8.6	104	0.00
52 CM	Toluene	50.000	55.435	-10.9#	111	0.00
53 T	t-1,3-Dichloropropene	50.000	56.714	-13.4	110	0.00
54 T	cis-1,3-Dichloropropene	50.000	57.518	-15.0	113	0.00
55 T	1,1,2-Trichloroethane	50.000	56.454	-12.9	112	0.00
56 T	Ethyl methacrylate	50.000	59.778	-19.6	110	0.00
57 T	1,3-Dichloropropane	50.000	55.247	-10.5	110	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	288.579	-15.4	128	0.00
59 T	2-Hexanone	250.000	282.011	-12.8	101	0.00
60 T	Dibromochloromethane	50.000	58.520	-17.0	115	0.00
61 T	1,2-Dibromoethane	50.000	55.351	-10.7	111	0.00
62 S	4-Bromofluorobenzene	50.000	50.489	-1.0	128	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	94	0.00
64 T	Tetrachloroethene	50.000	53.190	-6.4	108	0.00
65 PM	Chlorobenzene	50.000	55.424	-10.8	112	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	56.463	-12.9	111	0.00
67 C	Ethyl Benzene	50.000	54.206	-8.4#	108	0.00
68 T	m/p-Xylenes	100.000	110.334	-10.3	107	0.00
69 T	o-Xylene	50.000	56.127	-12.3	109	0.00
70 T	Styrene	50.000	56.996	-14.0	110	0.00
71 P	Bromoform	50.000	60.747	-21.5	113	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	91	0.00
73 T	Isopropylbenzene	50.000	53.511	-7.0	103	0.00
74 T	N-amyl acetate	50.000	53.765	-7.5	98	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	56.816	-13.6	108	0.00
76 T	1,2,3-Trichloropropane	50.000	49.771	0.5	92	0.00
77 T	Bromobenzene	50.000	57.512	-15.0	110	0.00
78 T	n-propylbenzene	50.000	53.234	-6.5	102	0.00
79 T	2-Chlorotoluene	50.000	54.413	-8.8	105	0.00
80 T	1,3,5-Trimethylbenzene	50.000	53.628	-7.3	101	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	59.701	-19.4	118	0.00
82 T	4-Chlorotoluene	50.000	54.598	-9.2	105	0.00
83 T	tert-Butylbenzene	50.000	53.498	-7.0	102	0.00
84 T	1,2,4-Trimethylbenzene	50.000	54.048	-8.1	102	0.00
85 T	sec-Butylbenzene	50.000	50.788	-1.6	96	0.00
86 T	p-Isopropyltoluene	50.000	52.156	-4.3	98	0.00
87 T	1,3-Dichlorobenzene	50.000	56.062	-12.1	108	0.00
88 T	1,4-Dichlorobenzene	50.000	56.315	-12.6	109	0.00
89 T	n-Butylbenzene	50.000	49.007	2.0	93	0.00
90 T	Hexachloroethane	50.000	52.738	-5.5	100	0.00
91 T	1,2-Dichlorobenzene	50.000	55.766	-11.5	107	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	52.704	-5.4	104	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.161	-4.3	99	0.00
94 T	Hexachlorobutadiene	50.000	44.682	10.6	84	0.00
95 T	Naphthalene	50.000	54.679	-9.4	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086940.D
Acq On : 11 Jun 2025 11:32
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
LabSampleId :
VSTDCCC050

Quant Time: Jun 12 01:28:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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	49.672	0.7	95	0.00

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



QC SAMPLE DATA

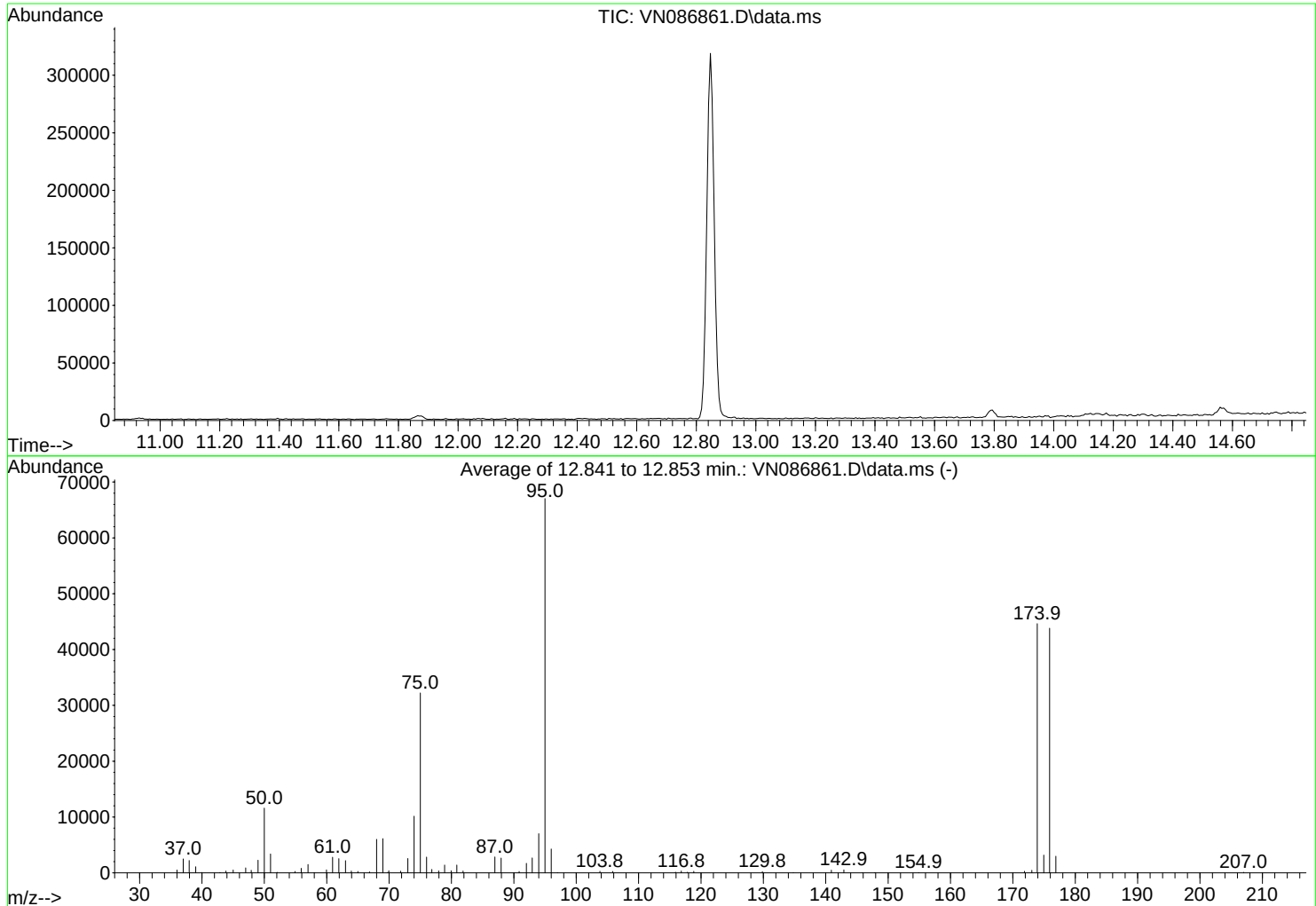
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- 3
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- 10
- 11
- 12
- 13
- 14
- 15
- 16

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060625\
Data File : VN086861.D
Acq On : 06 Jun 2025 07:59
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Title : SW846 8260
Last Update : Sat Jun 07 02:12:50 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

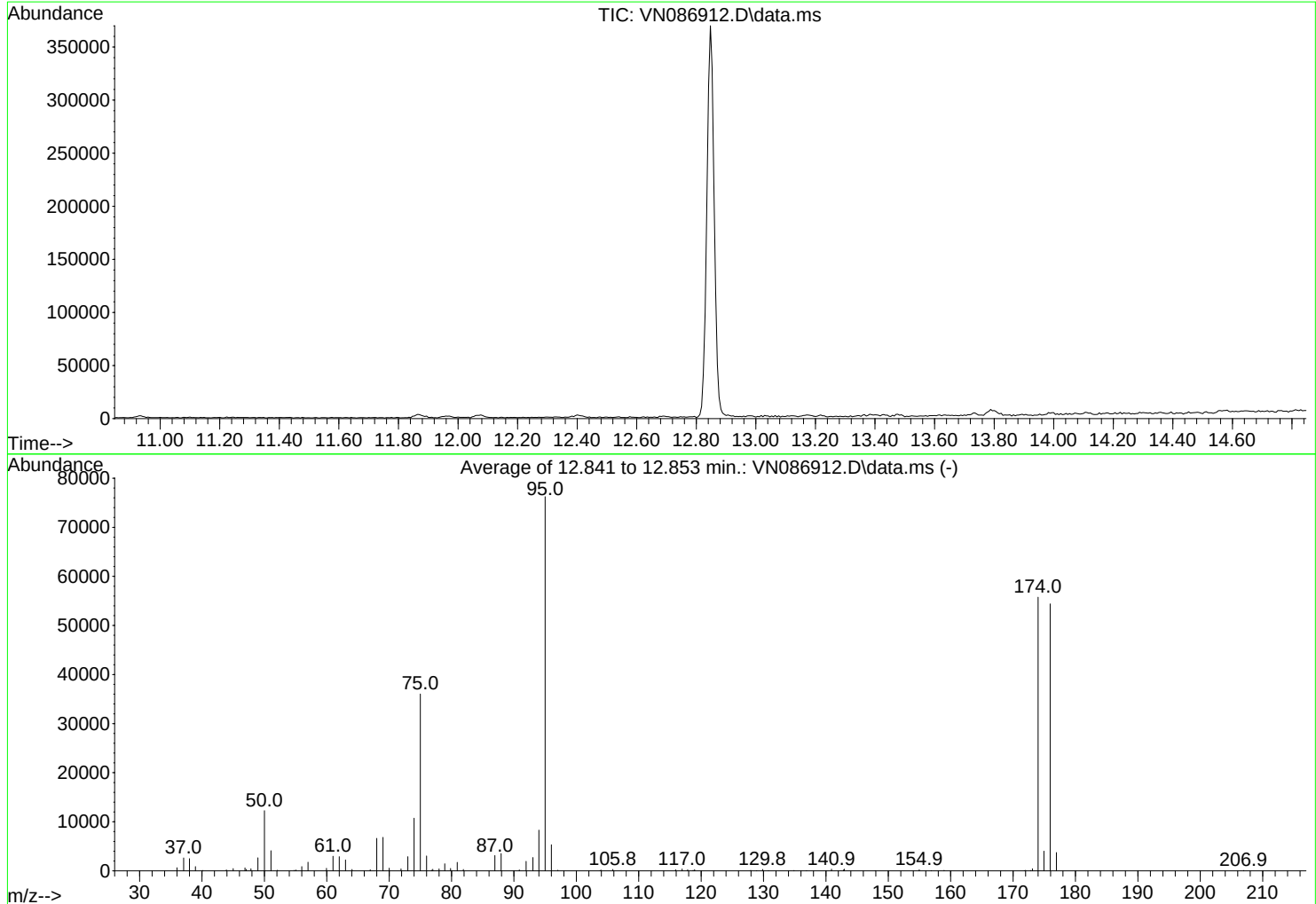
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	17.3	11610	PASS
75	95	30	60	48.1	32235	PASS
95	95	100	100	100.0	67037	PASS
96	95	5	9	6.4	4284	PASS
173	174	0.00	2	1.0	453	PASS
174	95	50	100	66.6	44632	PASS
175	174	5	9	7.1	3184	PASS
176	174	95	101	98.1	43805	PASS
177	176	5	9	6.8	2979	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086912.D
Acq On : 10 Jun 2025 08:39
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Title : SW846 8260
Last Update : Sat Jun 07 02:12:50 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

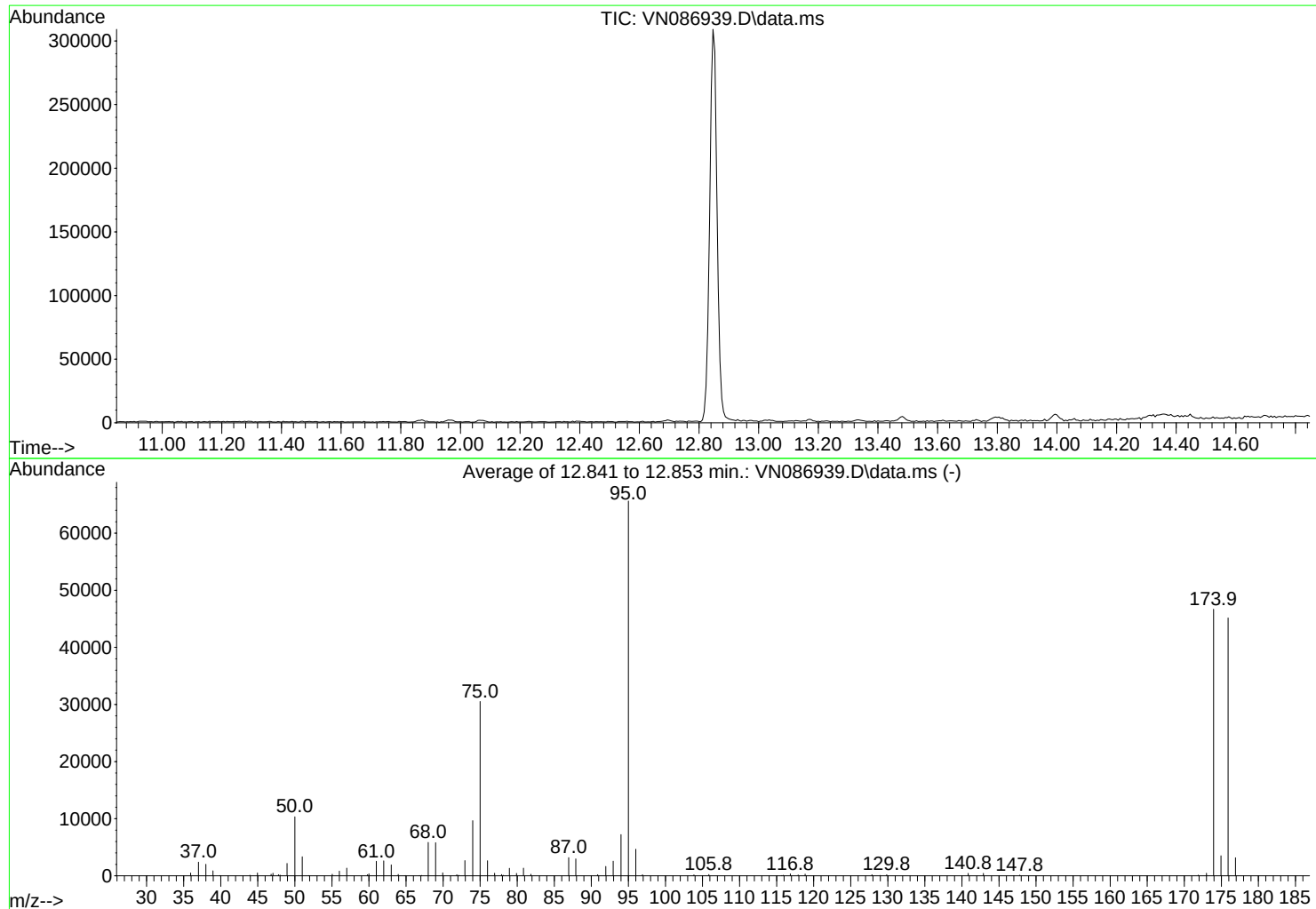
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	16.1	12262	PASS
75	95	30	60	47.3	36032	PASS
95	95	100	100	100.0	76240	PASS
96	95	5	9	7.0	5316	PASS
173	174	0.00	2	0.8	431	PASS
174	95	50	100	73.1	55768	PASS
175	174	5	9	7.2	4025	PASS
176	174	95	101	97.5	54389	PASS
177	176	5	9	6.9	3729	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086939.D
Acq On : 11 Jun 2025 10:22
Operator : JC\MD
Sample : BFB
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Title : SW846 8260
Last Update : Sat Jun 07 02:12:50 2025



AutoFind: Scans 1851, 1852, 1853; Background Corrected with Scan 1843

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	15.7	10335	PASS
75	95	30	60	46.5	30525	PASS
95	95	100	100	100.0	65627	PASS
96	95	5	9	7.1	4656	PASS
173	174	0.00	2	1.0	446	PASS
174	95	50	100	71.1	46675	PASS
175	174	5	9	7.5	3520	PASS
176	174	95	101	96.8	45165	PASS
177	176	5	9	7.0	3156	PASS

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	VN0610WBL01	SDG No.:	Q2250
Lab Sample ID:	VN0610WBL01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086915.D	1		06/10/25 10:09	VN061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.7		70 (74) - 130 (125)	93%	SPK: 50
1868-53-7	Dibromofluoromethane	49.0		70 (75) - 130 (124)	98%	SPK: 50
2037-26-5	Toluene-d8	51.5		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	241000	8.23			
540-36-3	1,4-Difluorobenzene	441000	9.106			
3114-55-4	Chlorobenzene-d5	386000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	183000	13.788			

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_N\Data\VN061025\
Data File : VN086915.D
Acq On : 10 Jun 2025 10:09
Operator : JC\MD
Sample : VN0610WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBL01

Quant Time: Jun 11 01:48:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	241251	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	440901	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	386425	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	183380	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	150863	46.706	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	93.420%	
35) Dibromofluoromethane	8.177	113	127940	48.965	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	97.940%	
50) Toluene-d8	10.565	98	532983	51.527	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	103.060%	
62) 4-Bromofluorobenzene	12.847	95	188114	48.950	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	97.900%	

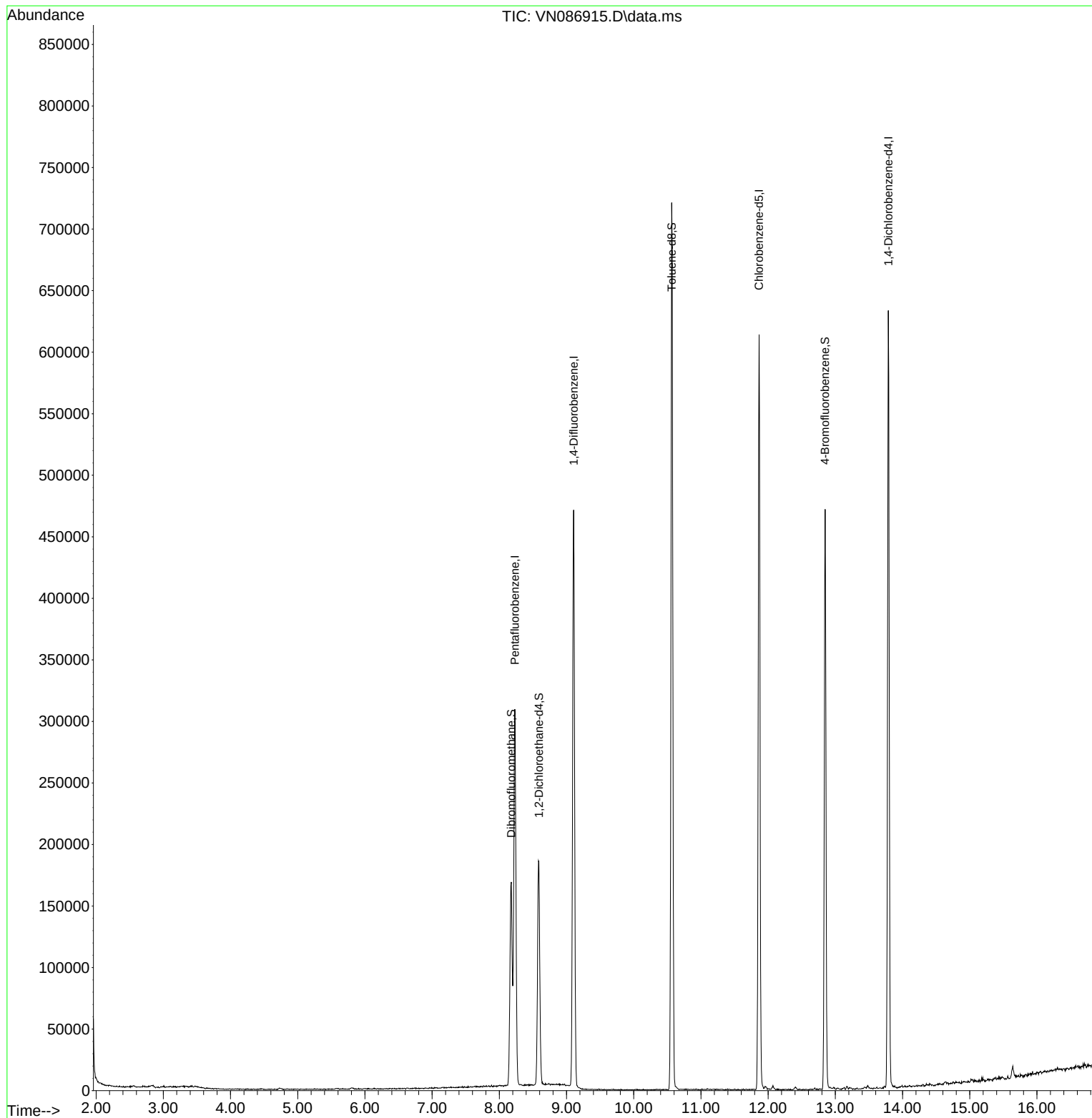
Target Compounds	Qvalue
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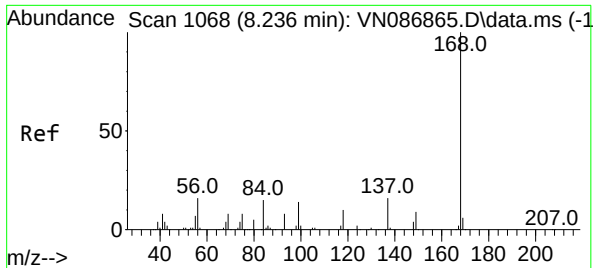
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086915.D
Acq On : 10 Jun 2025 10:09
Operator : JC\MD
Sample : VN0610WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBL01

Quant Time: Jun 11 01:48:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

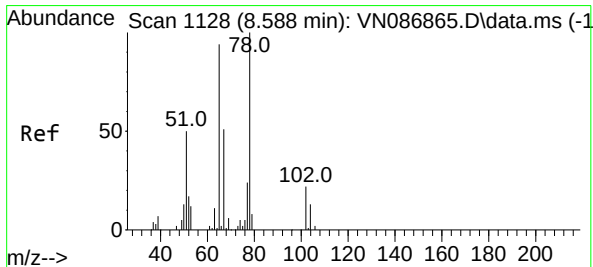
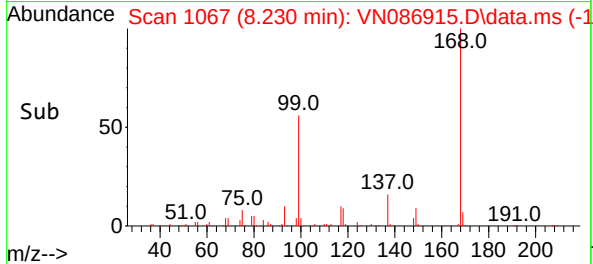
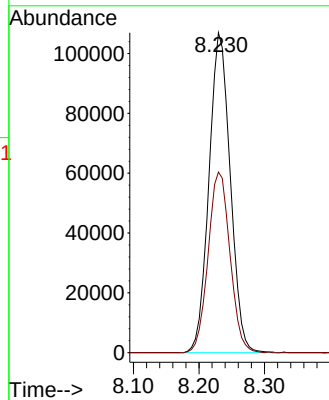
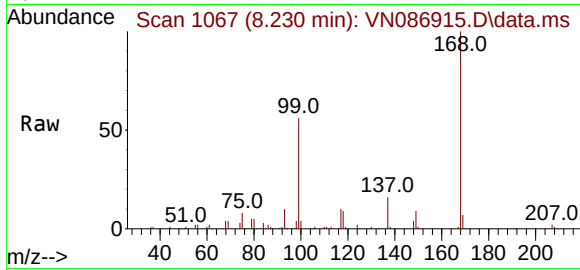




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086915.D
Acq: 10 Jun 2025 10:09

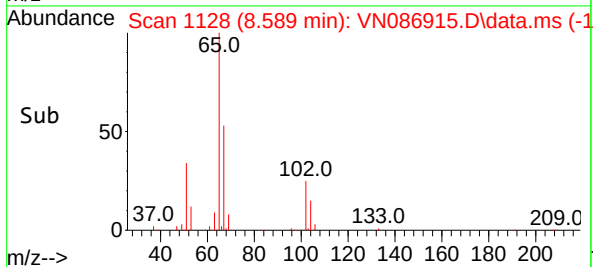
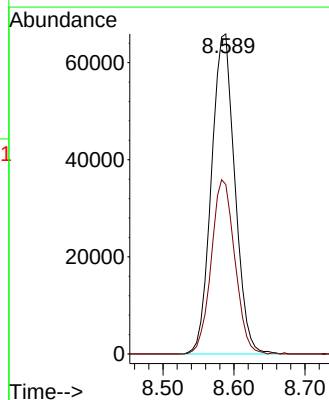
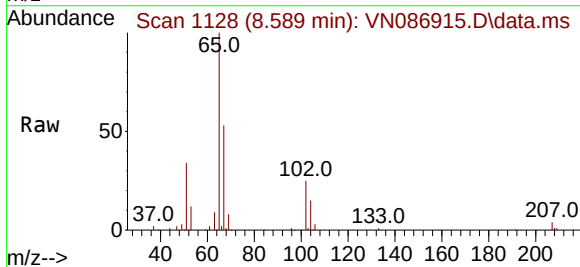
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBL01

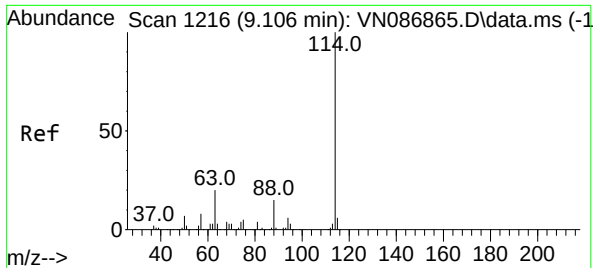
Tgt Ion:168 Resp: 241251
Ion Ratio Lower Upper
168 100
99 56.4 49.1 73.7



#33
1,2-Dichloroethane-d4
Concen: 46.706 ug/l
RT: 8.589 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN086915.D
Acq: 10 Jun 2025 10:09

Tgt Ion: 65 Resp: 150863
Ion Ratio Lower Upper
65 100
67 54.8 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086915.D

Acq: 10 Jun 2025 10:09

Instrument :

MSVOA_N

ClientSampleId :

VN0610WBL01

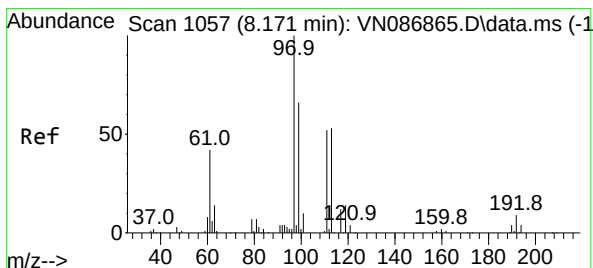
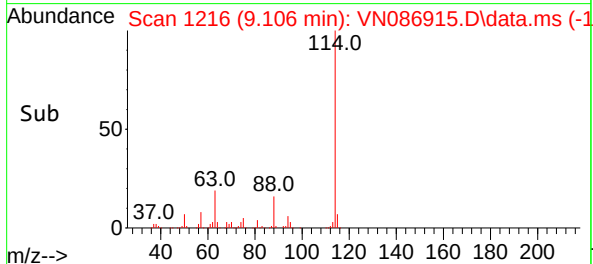
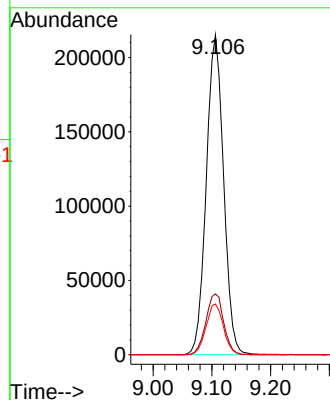
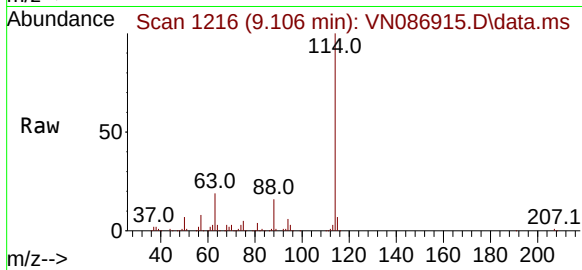
Tgt Ion:114 Resp: 440901

Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.6

88 15.9 0.0 30.2



#35

Dibromofluoromethane

Concen: 48.965 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086915.D

Acq: 10 Jun 2025 10:09

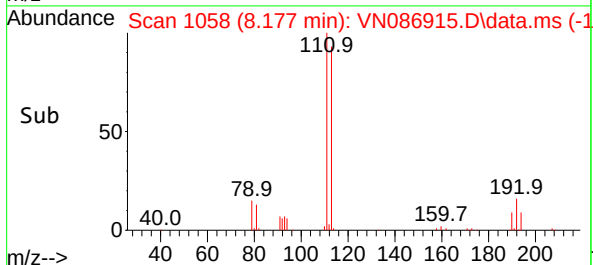
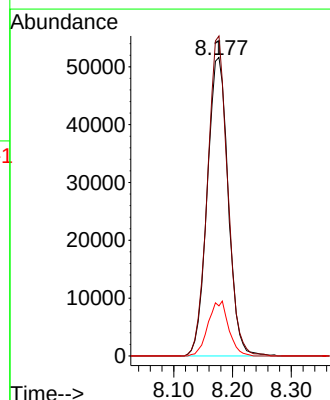
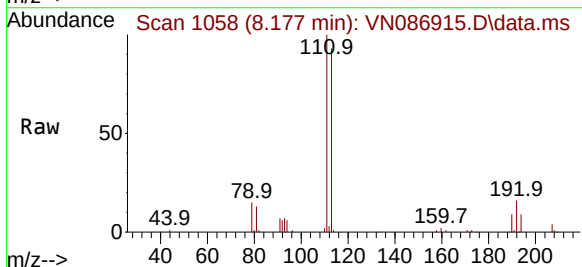
Tgt Ion:113 Resp: 127940

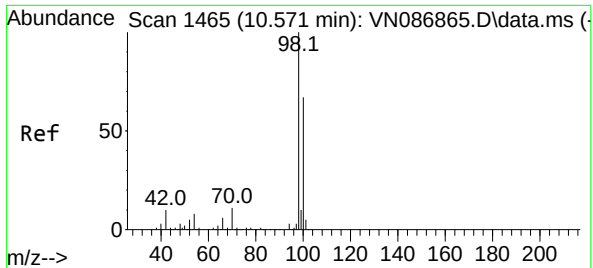
Ion Ratio Lower Upper

113 100

111 103.3 84.2 126.2

192 18.1 14.2 21.4

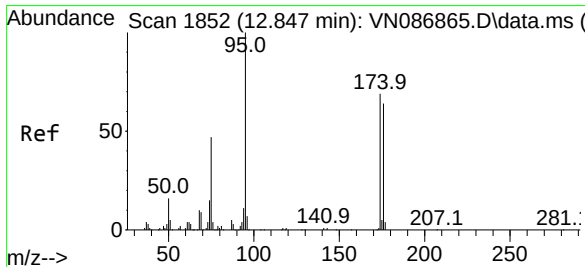
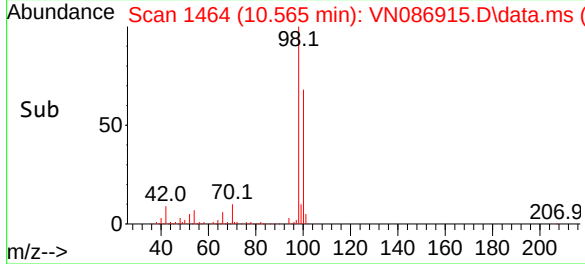
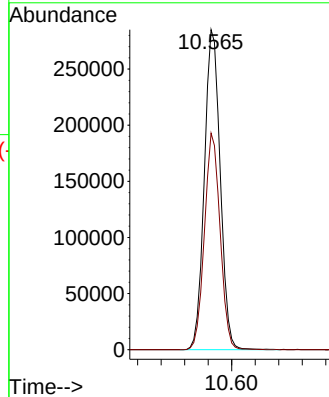
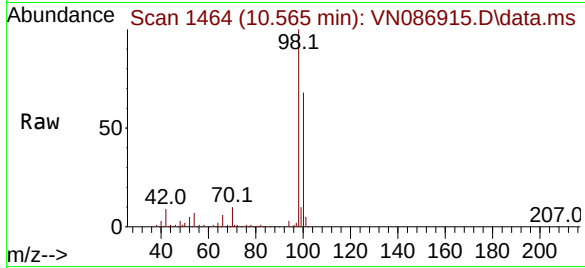




#50
Toluene-d8
Concen: 51.527 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN086915.D
Acq: 10 Jun 2025 10:09

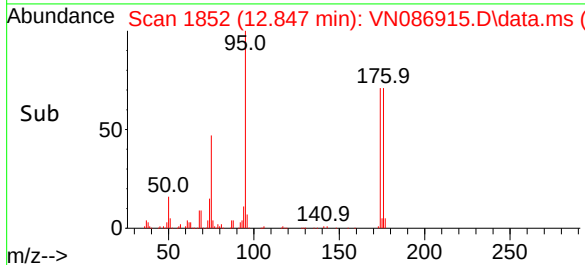
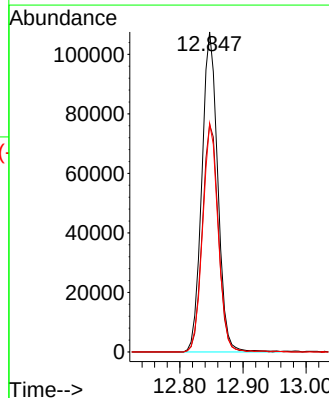
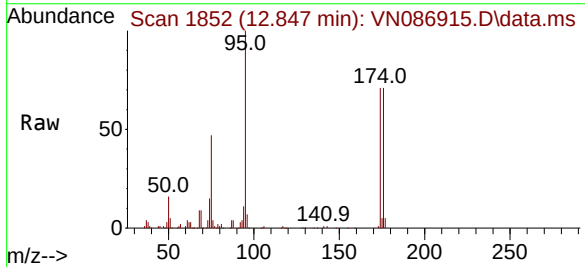
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBL01

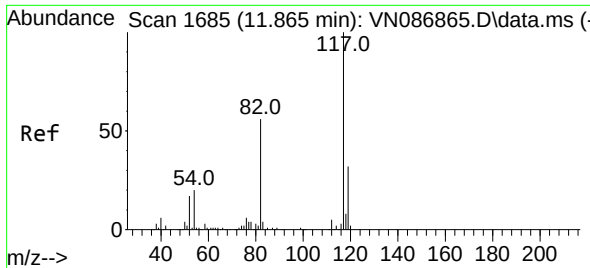
Tgt Ion: 98 Resp: 532983
Ion Ratio Lower Upper
98 100
100 66.7 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 48.950 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086915.D
Acq: 10 Jun 2025 10:09

Tgt Ion: 95 Resp: 188114
Ion Ratio Lower Upper
95 100
174 71.2 0.0 141.8
176 69.4 0.0 132.6

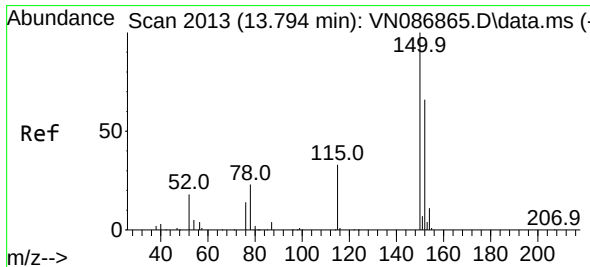
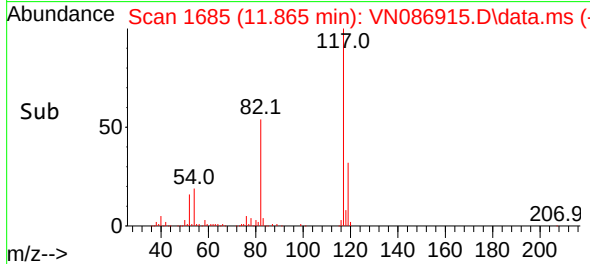
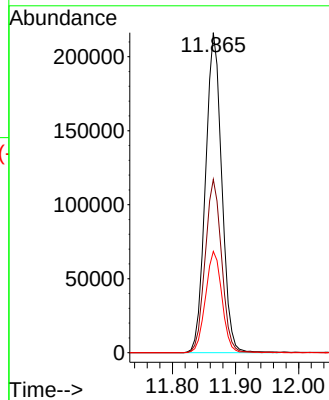
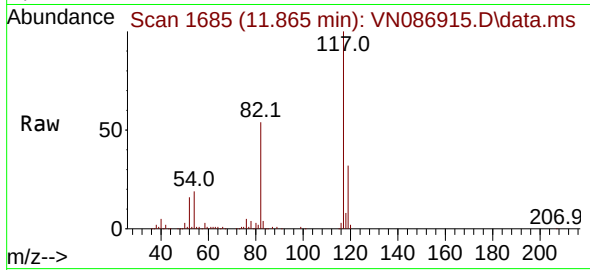




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086915.D
Acq: 10 Jun 2025 10:09

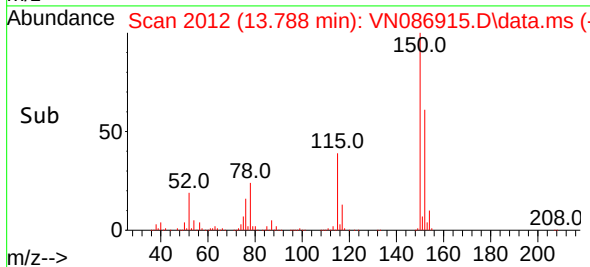
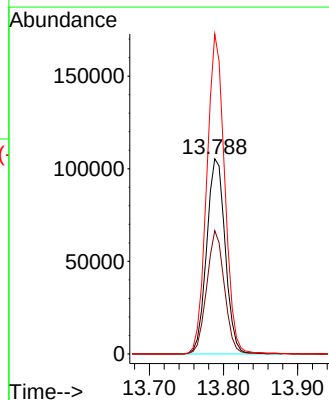
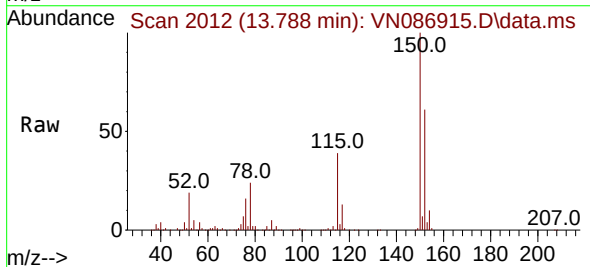
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBL01

Tgt Ion:117 Resp: 386425
Ion Ratio Lower Upper
117 100
82 54.2 44.6 67.0
119 31.7 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN086915.D
Acq: 10 Jun 2025 10:09

Tgt Ion:152 Resp: 183380
Ion Ratio Lower Upper
152 100
115 60.4 30.1 90.5
150 158.5 0.0 345.0



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	VN0611WBL01	SDG No.:	Q2250
Lab Sample ID:	VN0611WBL01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086942.D	1		06/11/25 12:28	VN061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.3		70 (74) - 130 (125)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	51.7		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		70 (77) - 130 (121)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	328000	8.23			
540-36-3	1,4-Difluorobenzene	619000	9.106			
3114-55-4	Chlorobenzene-d5	543000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	257000	13.788			

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_N\Data\VN061125\
Data File : VN086942.D
Acq On : 11 Jun 2025 12:28
Operator : JC\MD
Sample : VN0611WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBL01

Quant Time: Jun 12 01:30:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	328120	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	618651	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	543433	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	257257	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	212062	48.271	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	96.540%	
35) Dibromofluoromethane	8.177	113	180701	49.287	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	98.580%	
50) Toluene-d8	10.565	98	749967	51.673	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	103.340%	
62) 4-Bromofluorobenzene	12.847	95	266545	49.431	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	98.860%	

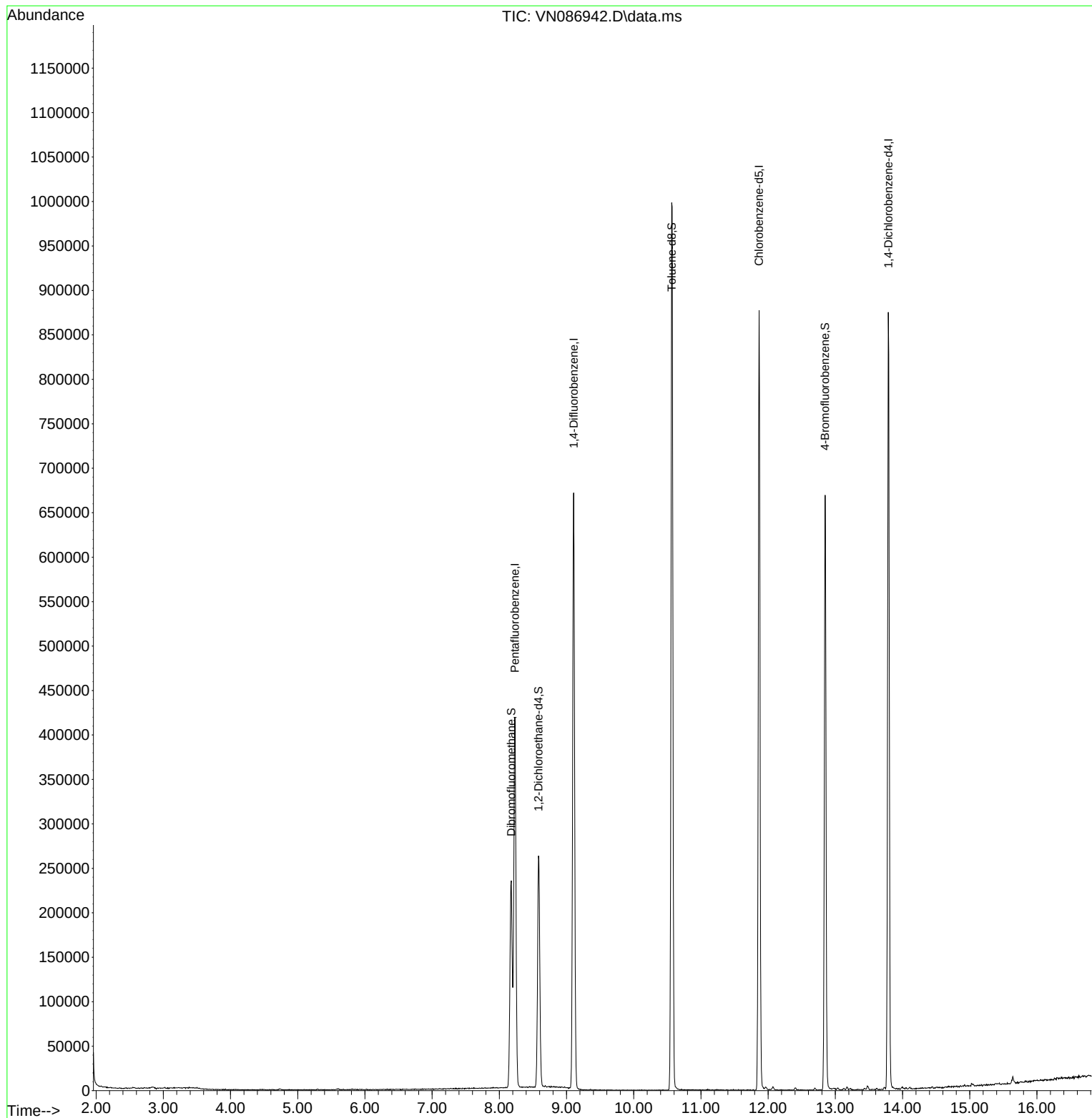
Target Compounds	Qvalue
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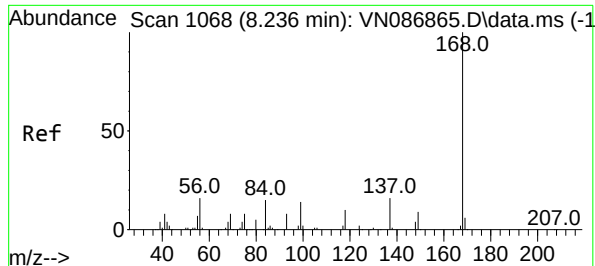
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086942.D
Acq On : 11 Jun 2025 12:28
Operator : JC\MD
Sample : VN0611WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBL01

Quant Time: Jun 12 01:30:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

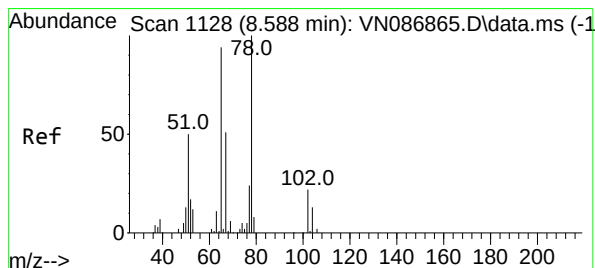
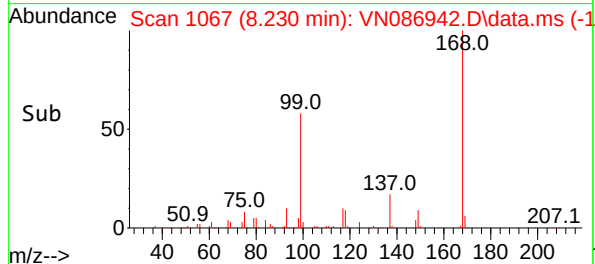
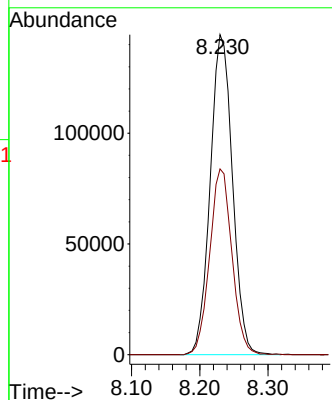
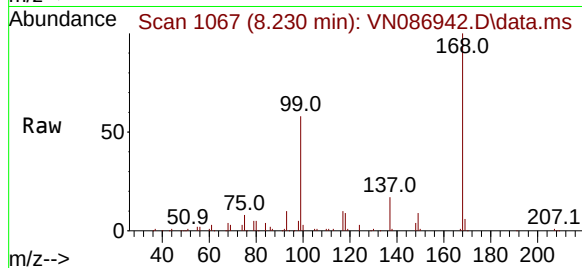




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.006 min
Lab File: VN086942.D
Acq: 11 Jun 2025 12:28

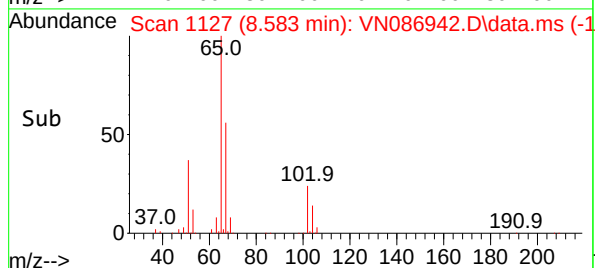
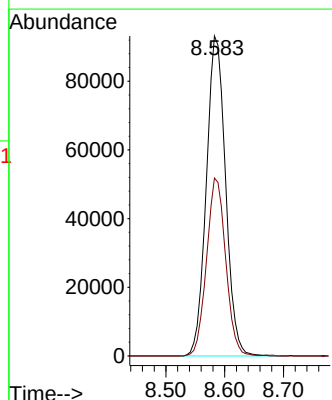
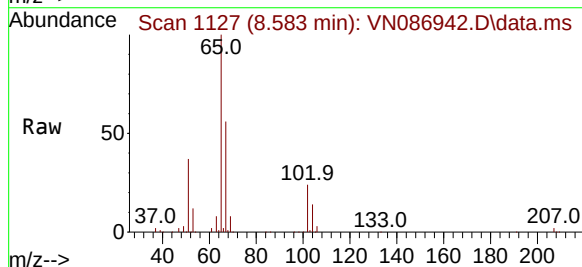
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBL01

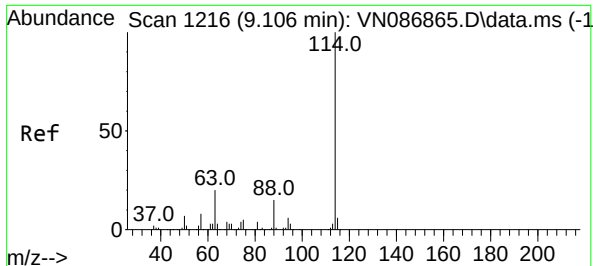
Tgt Ion:168 Resp: 328120
Ion Ratio Lower Upper
168 100
99 58.0 49.1 73.7



#33
1,2-Dichloroethane-d4
Concen: 48.271 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN086942.D
Acq: 11 Jun 2025 12:28

Tgt Ion: 65 Resp: 212062
Ion Ratio Lower Upper
65 100
67 55.4 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086942.D

Acq: 11 Jun 2025 12:28

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBL01

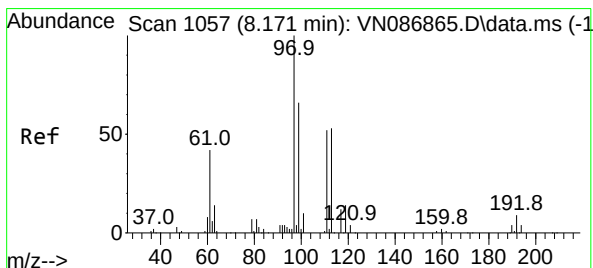
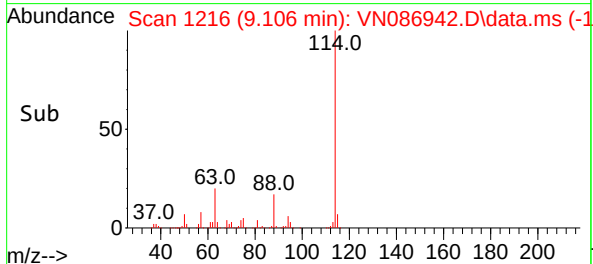
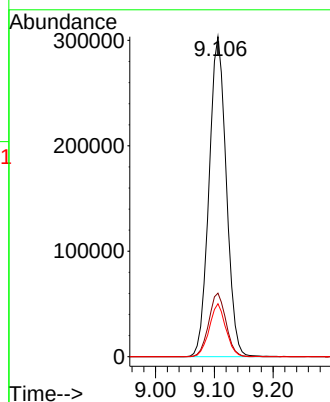
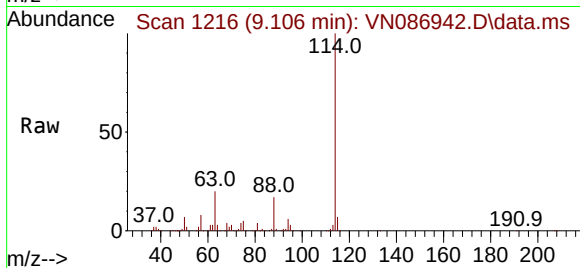
Tgt Ion:114 Resp: 618651

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

88 16.5 0.0 30.2



#35

Dibromofluoromethane

Concen: 49.287 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086942.D

Acq: 11 Jun 2025 12:28

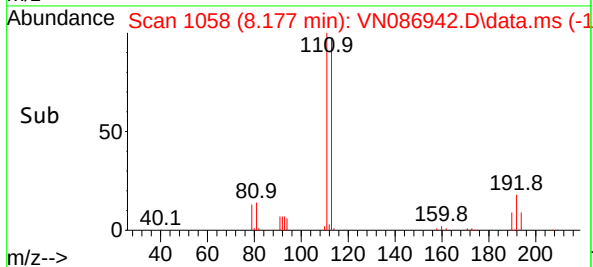
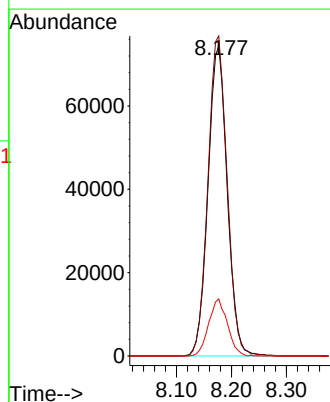
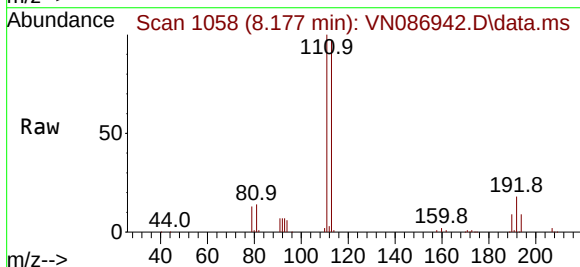
Tgt Ion:113 Resp: 180701

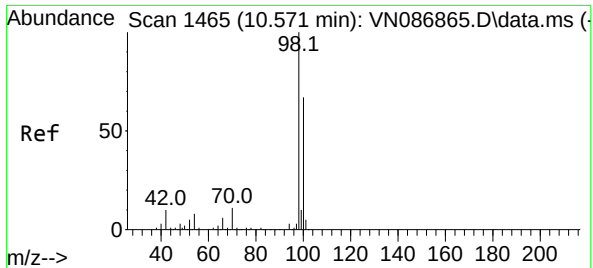
Ion Ratio Lower Upper

113 100

111 103.1 84.2 126.2

192 18.0 14.2 21.4

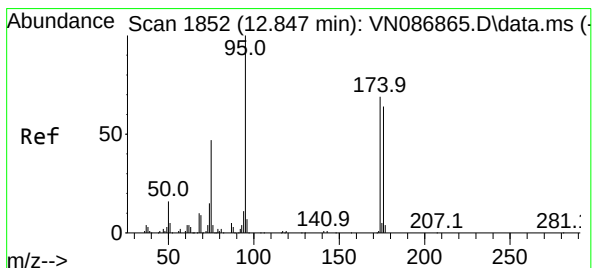
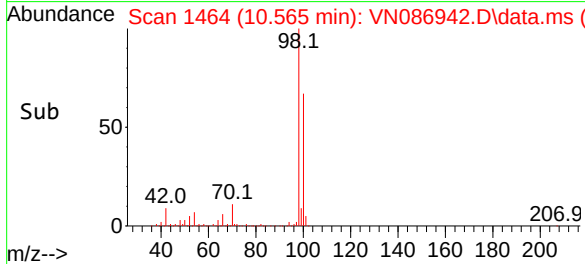
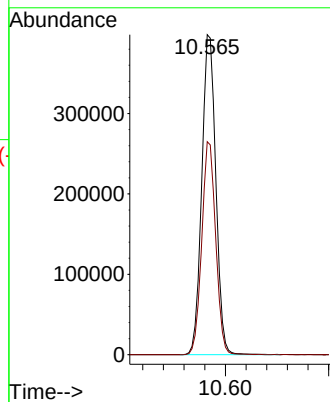
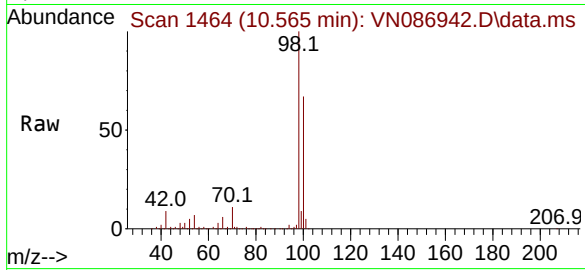




#50
Toluene-d8
Concen: 51.673 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN086942.D
Acq: 11 Jun 2025 12:28

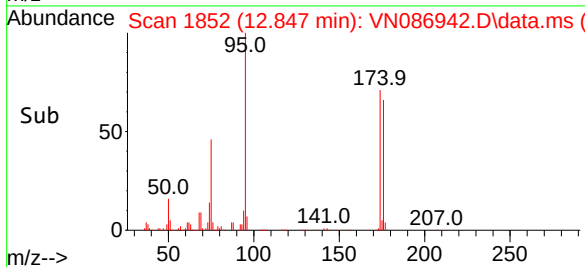
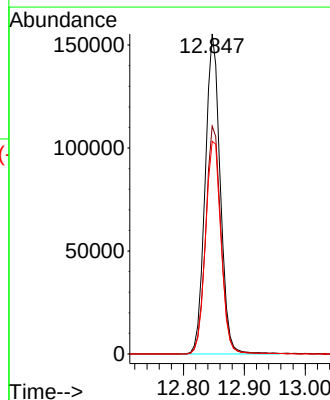
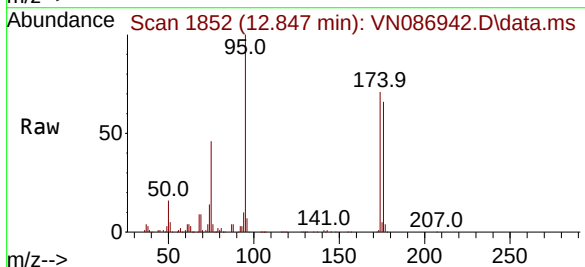
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBL01

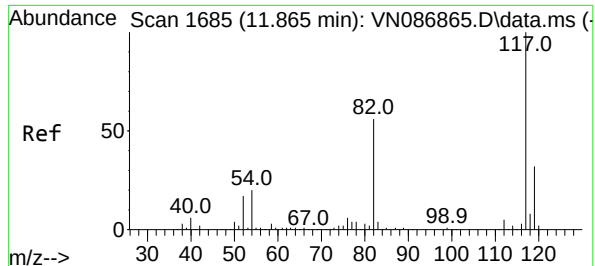
Tgt Ion: 98 Resp: 749967
Ion Ratio Lower Upper
98 100
100 66.0 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 49.431 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086942.D
Acq: 11 Jun 2025 12:28

Tgt Ion: 95 Resp: 266545
Ion Ratio Lower Upper
95 100
174 72.3 0.0 141.8
176 68.8 0.0 132.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086942.D

Acq: 11 Jun 2025 12:28

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBL01

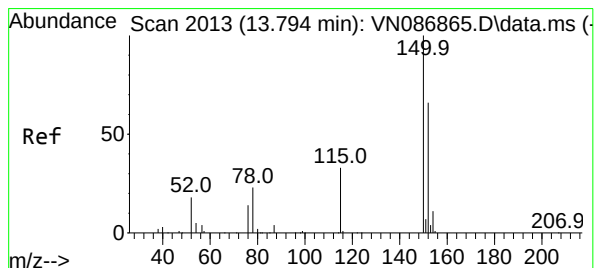
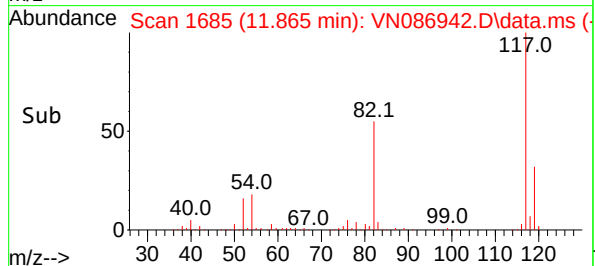
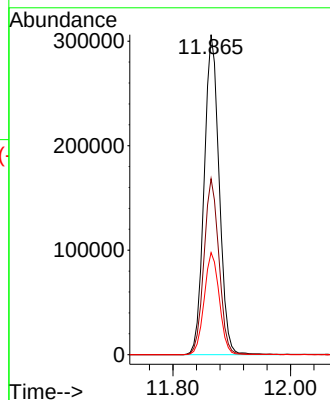
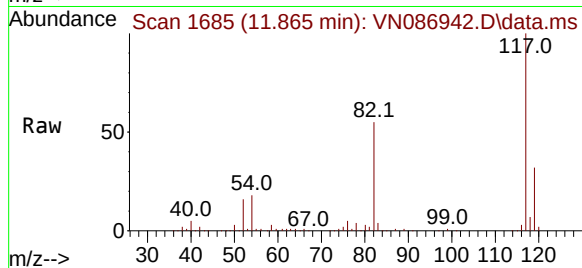
Tgt Ion:117 Resp: 543433

Ion Ratio Lower Upper

117 100

82 55.0 44.6 67.0

119 31.9 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.006 min

Lab File: VN086942.D

Acq: 11 Jun 2025 12:28

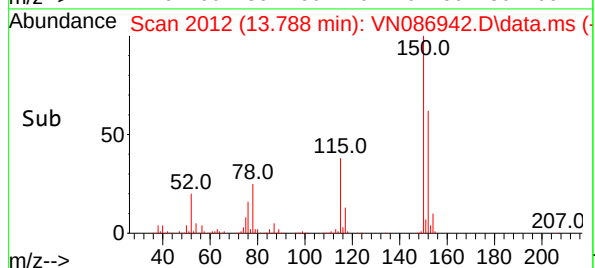
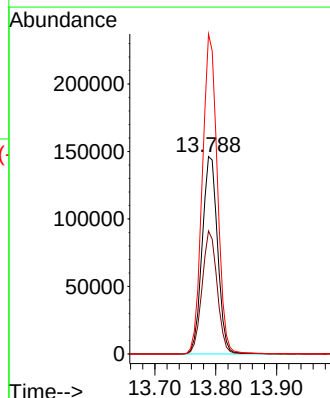
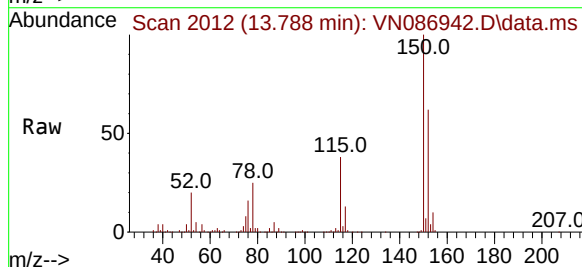
Tgt Ion:152 Resp: 257257

Ion Ratio Lower Upper

152 100

115 61.2 30.1 90.5

150 157.9 0.0 345.0



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	VN0610WBS01	SDG No.:	Q2250
Lab Sample ID:	VN0610WBS01	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086916.D	1		06/10/25 10:30	VN061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.0		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.7		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.2		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.7		0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.1		0.20	1.00	ug/L
71-43-2	Benzene	18.5		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.7		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.3		0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.5		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	17.9		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.4		70 (74) - 130 (125)	91%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	48.6		70 (86) - 130 (113)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	250000	8.23			
540-36-3	1,4-Difluorobenzene	443000	9.106			
3114-55-4	Chlorobenzene-d5	389000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	190000	13.788			

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_N\Data\VN061025\
 Data File : VN086916.D
 Acq On : 10 Jun 2025 10:30
 Operator : JC\MD
 Sample : VN0610WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0610WBS01

Manual Integrations APPROVED

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

Quant Time: Jun 11 01:48:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	249843	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	443174	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	389297	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	189620	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.582	65	151805	45.381	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	90.760%
35) Dibromofluoromethane	8.177	113	129937	49.474	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.940%
50) Toluene-d8	10.571	98	505508	48.620	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.240%
62) 4-Bromofluorobenzene	12.847	95	186676	48.327	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	96.660%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.153	85	47416	19.034	ug/l	98
3) Chloromethane	2.401	50	51246	15.931	ug/l	100
4) Vinyl Chloride	2.553	62	59638	17.973	ug/l	98
5) Bromomethane	3.000	94	36539	19.677	ug/l	96
6) Chloroethane	3.159	64	39443	18.402	ug/l	96
7) Trichlorofluoromethane	3.530	101	79526	18.343	ug/l	97
8) Diethyl Ether	3.983	74	35508	18.798	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.400	101	49596	18.208	ug/l	99
10) Methyl Iodide	4.612	142	51915	14.703	ug/l	95
11) Tert butyl alcohol	5.530	59	74605	82.194	ug/l	99
12) 1,1-Dichloroethene	4.365	96	52125	18.744	ug/l	90
13) Acrolein	4.200	56	22542	78.459	ug/l	98
14) Allyl chloride	5.047	41	78157	16.947	ug/l	97
15) Acrylonitrile	5.741	53	189727	89.429	ug/l	99
16) Acetone	4.447	43	142458	80.306	ug/l	97
17) Carbon Disulfide	4.736	76	131873	17.144	ug/l	100
18) Methyl Acetate	5.047	43	88551	17.129	ug/l	97
19) Methyl tert-butyl Ether	5.812	73	187833	18.655	ug/l	99
20) Methylene Chloride	5.300	84	57671	17.365	ug/l	95
21) trans-1,2-Dichloroethene	5.812	96	55486	17.934	ug/l	96
22) Diisopropyl ether	6.688	45	176809	18.188	ug/l	96
23) Vinyl Acetate	6.618	43	744861	90.687	ug/l	98
24) 1,1-Dichloroethane	6.583	63	101669	18.173	ug/l	98
25) 2-Butanone	7.494	43	242187	83.991	ug/l	95
26) 2,2-Dichloropropane	7.500	77	89631	20.596	ug/l	100
27) cis-1,2-Dichloroethene	7.494	96	69159	18.691	ug/l	99
28) Bromochloromethane	7.824	49	45748	16.632	ug/l	93
29) Tetrahydrofuran	7.847	42	160591	85.494	ug/l	97
30) Chloroform	7.977	83	101594	18.184	ug/l	97
31) Cyclohexane	8.265	56	89487	16.494	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	85981	18.094	ug/l	98
36) 1,1-Dichloropropene	8.382	75	74129	18.942	ug/l	100
37) Ethyl Acetate	7.571	43	88740	17.812	ug/l	99
38) Carbon Tetrachloride	8.371	117	72144	18.777	ug/l	97
39) Methylcyclohexane	9.606	83	85476	15.942	ug/l	96
40) Benzene	8.612	78	236213	18.458	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
 Data File : VN086916.D
 Acq On : 10 Jun 2025 10:30
 Operator : JC\MD
 Sample : VN0610WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0610WBS01

Manual Integrations APPROVED

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

Quant Time: Jun 11 01:48:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.788	41	48124	17.200	ug/l	93
42) 1,2-Dichloroethane	8.677	62	72690	18.727	ug/l	99
43) Isopropyl Acetate	8.694	43	144037	18.014	ug/l	97
44) Trichloroethene	9.353	130	58449	19.262	ug/l	97
45) 1,2-Dichloropropane	9.624	63	58046	18.644	ug/l	97
46) Dibromomethane	9.712	93	39229	18.970	ug/l	98
47) Bromodichloromethane	9.888	83	80034	18.810	ug/l	99
48) Methyl methacrylate	9.682	41	64650	17.567	ug/l	96
49) 1,4-Dioxane	9.700	88	23656	353.325	ug/l #	98
51) 4-Methyl-2-Pentanone	10.447	43	440301	91.469	ug/l	98
52) Toluene	10.629	92	148340	18.967	ug/l	97
53) t-1,3-Dichloropropene	10.835	75	93038	19.555	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	98066	19.264	ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	58629	19.483	ug/l	99
56) Ethyl methacrylate	10.882	69	93272	19.460	ug/l	96
57) 1,3-Dichloropropane	11.165	76	99132	18.990	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	251485	87.967	ug/l	98
59) 2-Hexanone	11.206	43	271013	87.405	ug/l	91
60) Dibromochloromethane	11.359	129	61081	19.481	ug/l	99
61) 1,2-Dibromoethane	11.470	107	58347	18.916	ug/l	100
64) Tetrachloroethene	11.106	164	44151	17.920	ug/l	94
65) Chlorobenzene	11.888	112	162051	18.874	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	52766	19.118	ug/l	99
67) Ethyl Benzene	11.965	91	270410	18.284	ug/l	98
68) m/p-Xylenes	12.070	106	213409	37.696	ug/l	96
69) o-Xylene	12.400	106	102597	18.922	ug/l	98
70) Styrene	12.412	104	176358	19.008	ug/l	99
71) Bromoform	12.576	173	41058	20.077	ug/l #	98
73) Isopropylbenzene	12.694	105	249411	18.055	ug/l	100
74) N-amyl acetate	12.529	43	98634m	20.433	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.941	83	90657	19.372	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	77098m	17.105	ug/l	
77) Bromobenzene	12.976	156	61956	19.557	ug/l	97
78) n-propylbenzene	13.035	91	298896	17.805	ug/l	100
79) 2-Chlorotoluene	13.123	91	183491	18.226	ug/l	96
80) 1,3,5-Trimethylbenzene	13.170	105	201924	17.705	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.735	75	39145	19.992	ug/l	91
82) 4-Chlorotoluene	13.217	91	188207	18.476	ug/l	99
83) tert-Butylbenzene	13.435	119	186449	17.859	ug/l	97
84) 1,2,4-Trimethylbenzene	13.482	105	206670	18.071	ug/l	100
85) sec-Butylbenzene	13.612	105	255364	16.843	ug/l	99
86) p-Isopropyltoluene	13.729	119	212141	16.927	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	117325	18.823	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	118648	18.671	ug/l	99
89) n-Butylbenzene	14.053	91	197259	16.250	ug/l	99
90) Hexachloroethane	14.329	117	36492	17.178	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	112799	18.837	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	20803	18.587	ug/l	99
93) 1,2,4-Trichlorobenzene	15.388	180	64838	16.956	ug/l	100
94) Hexachlorobutadiene	15.500	225	20732	14.552	ug/l	98
95) Naphthalene	15.635	128	257750	18.109	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	59536	15.670	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086916.D
Acq On : 10 Jun 2025 10:30
Operator : JC\MD
Sample : VN0610WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Manual Integrations
APPROVED

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

Quant Time: Jun 11 01:48:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 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

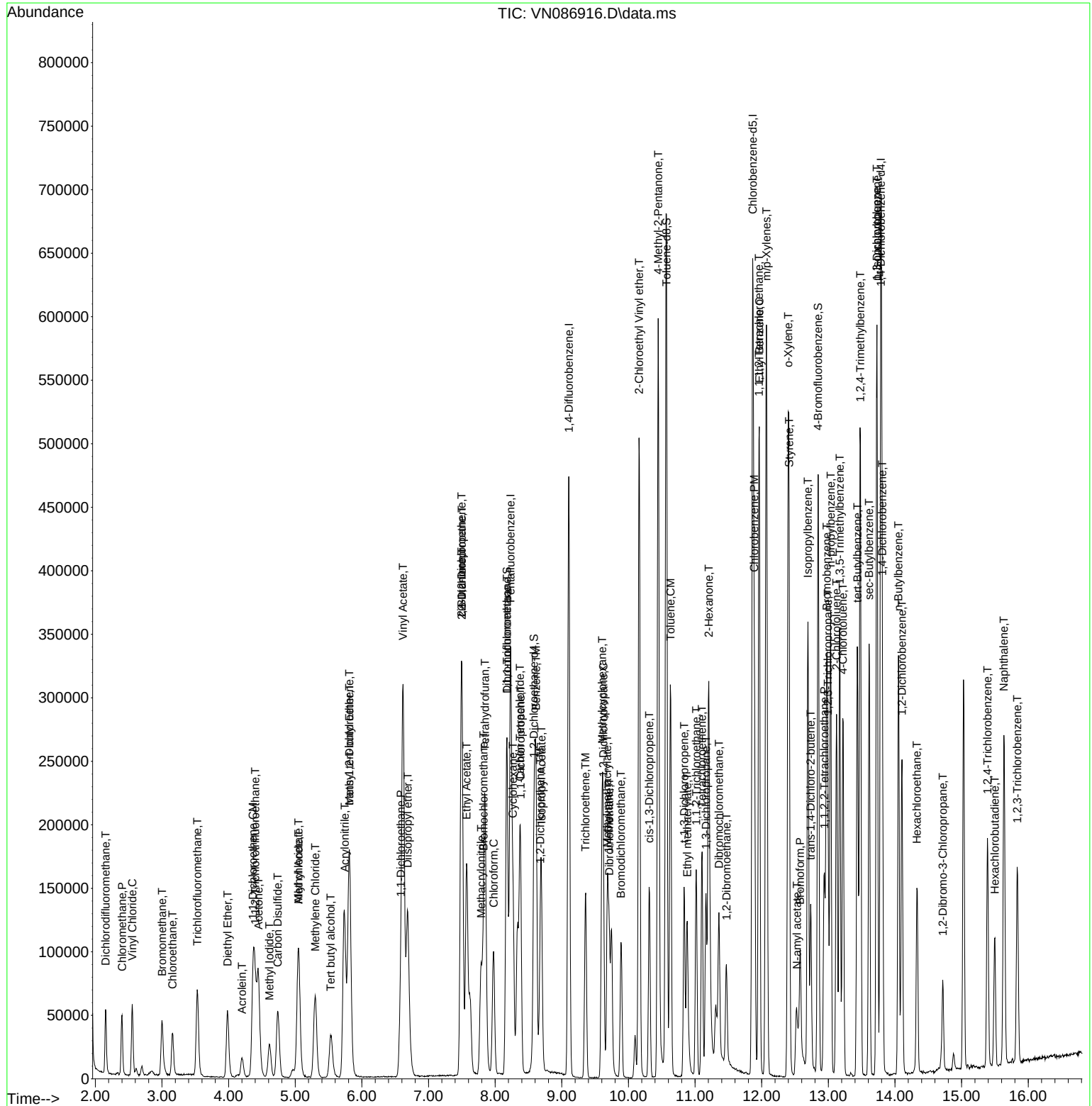
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Data File : VN086916.D
Acq On : 10 Jun 2025 10:30
Operator : JC\MD
Sample : VN0610WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

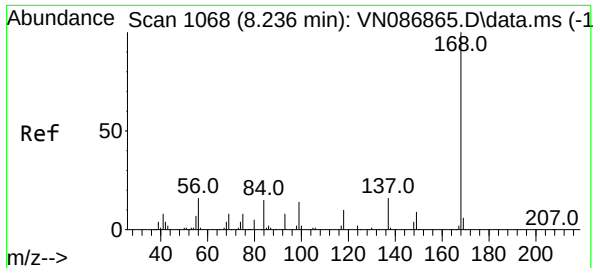
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Manual Integrations

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

Quant Time: Jun 11 01:48:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration





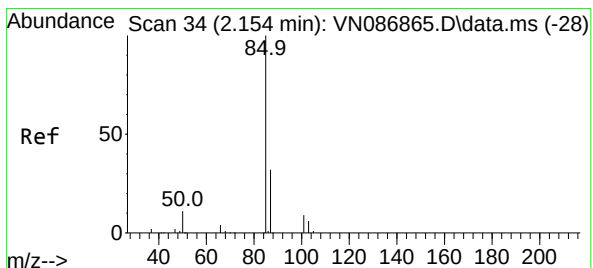
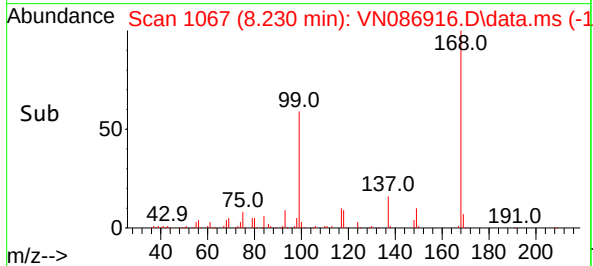
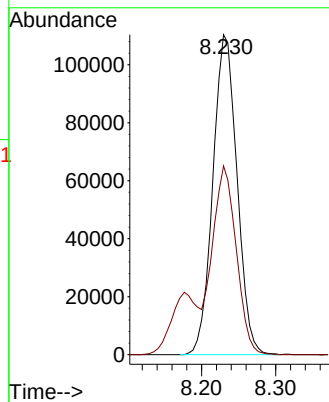
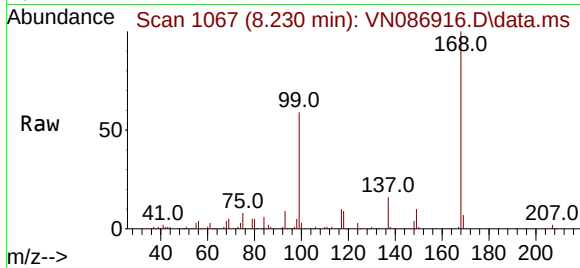
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion:168 Resp: 24984
Ion Ratio Lower Upper
168 100
99 59.0 49.1 73.7

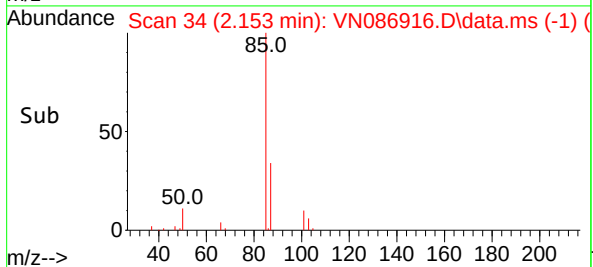
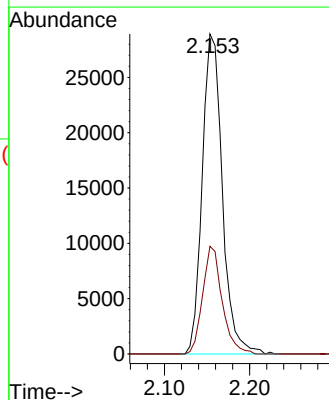
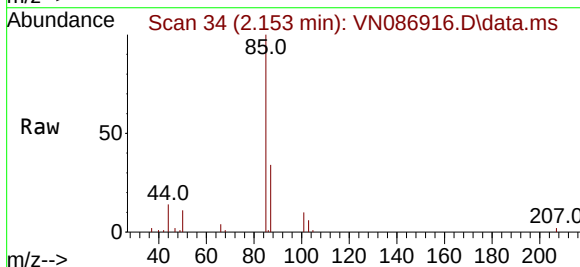
Manual Integrations
APPROVED

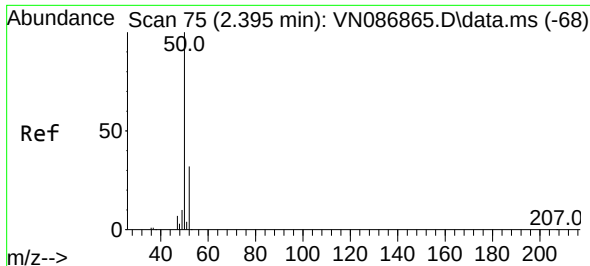
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#2
Dichlorodifluoromethane
Concen: 19.034 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion: 85 Resp: 47416
Ion Ratio Lower Upper
85 100
87 33.6 16.2 48.6





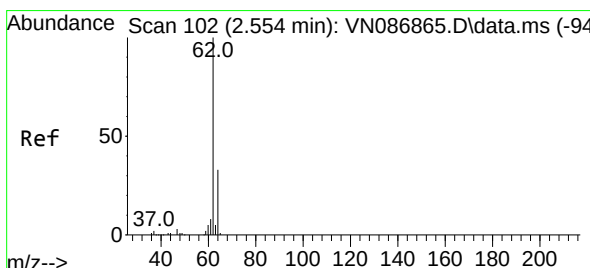
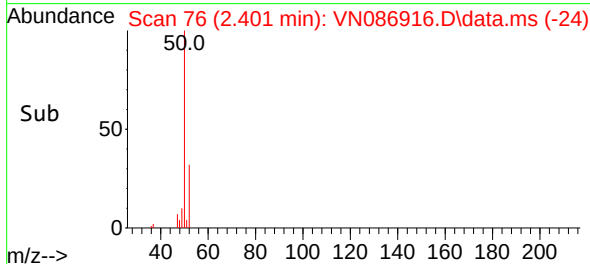
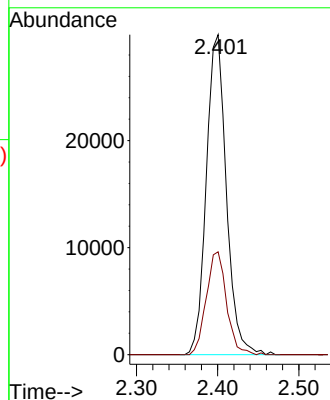
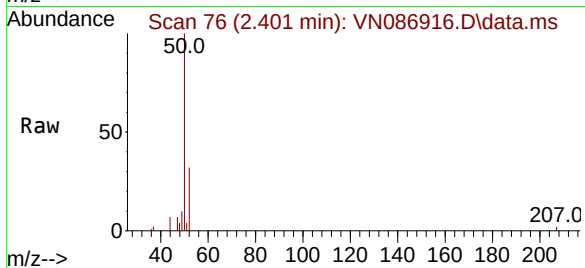
#3
Chloromethane
Concen: 15.931 ug/l
RT: 2.401 min Scan# 75
Delta R.T. 0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion: 50 Resp: 51240
Ion Ratio Lower Upper
50 100
52 32.1 25.7 38.5

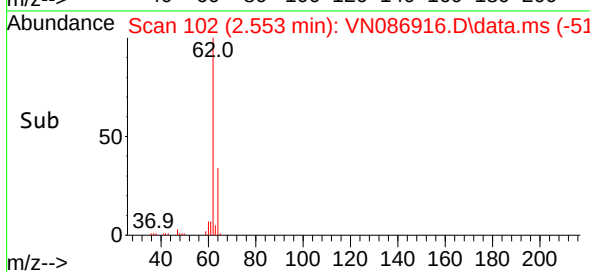
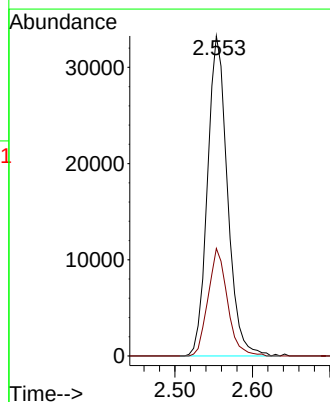
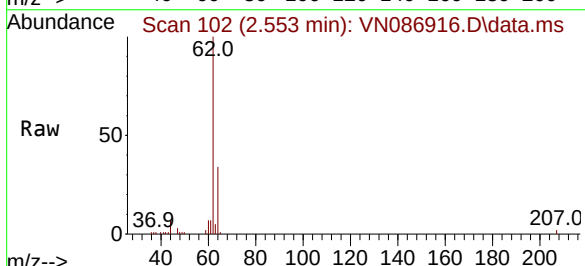
Manual Integrations
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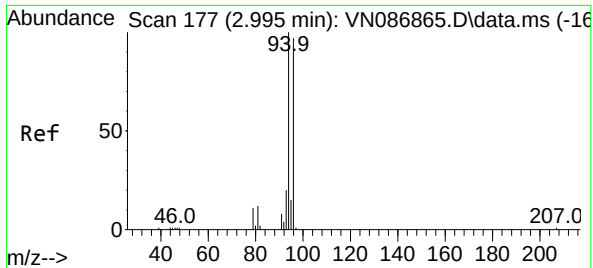
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#4
Vinyl Chloride
Concen: 17.973 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion: 62 Resp: 59638
Ion Ratio Lower Upper
62 100
64 33.6 26.0 39.0





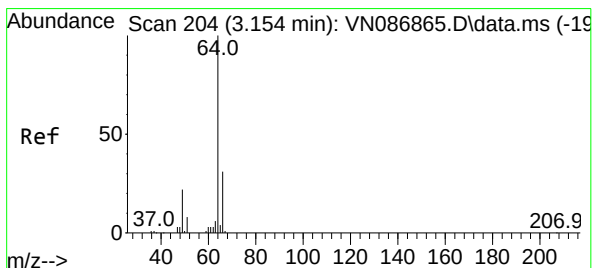
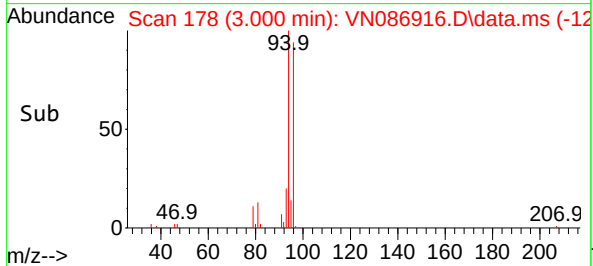
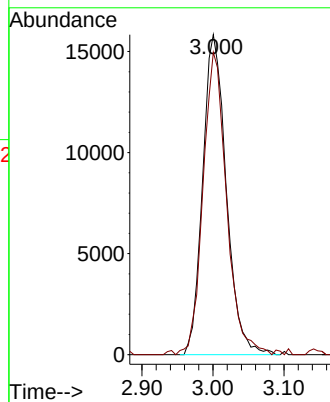
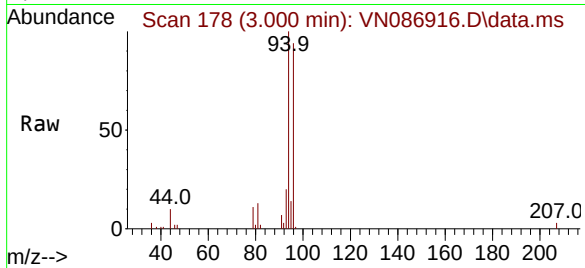
#5
Bromomethane
Concen: 19.677 ug/l
RT: 3.000 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion: 94 Resp: 36539
Ion Ratio Lower Upper
94 100
96 93.4 77.9 116.9

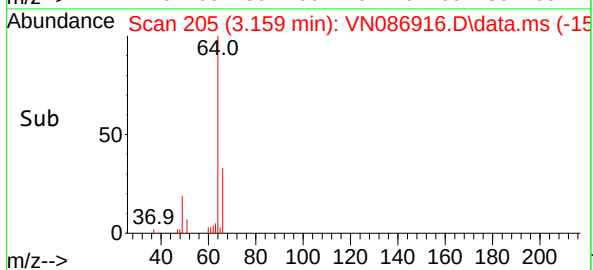
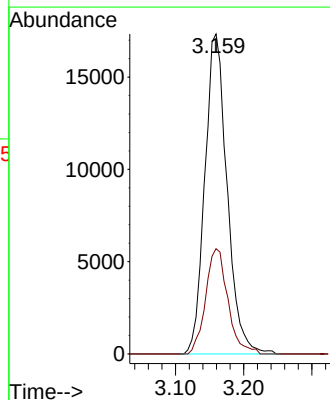
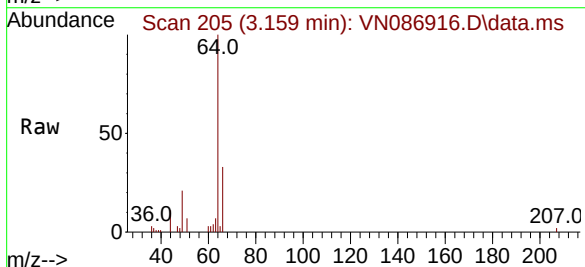
Manual Integrations
APPROVED

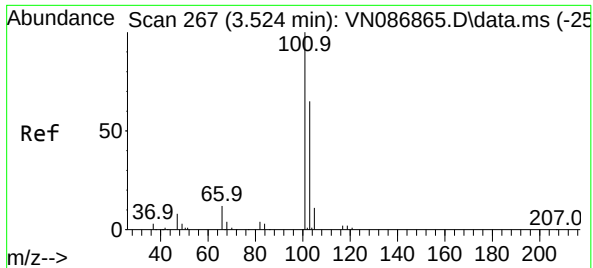
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#6
Chloroethane
Concen: 18.402 ug/l
RT: 3.159 min Scan# 205
Delta R.T. 0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion: 64 Resp: 39443
Ion Ratio Lower Upper
64 100
66 32.9 24.6 36.8





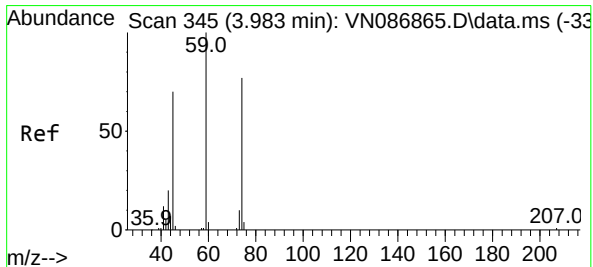
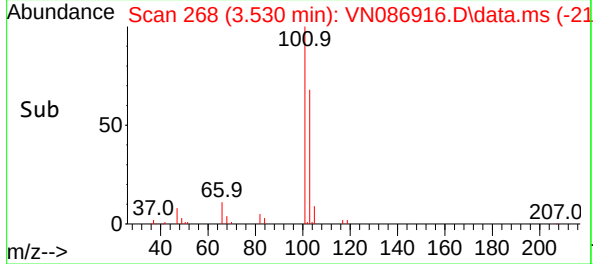
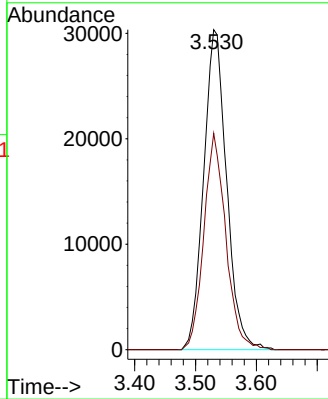
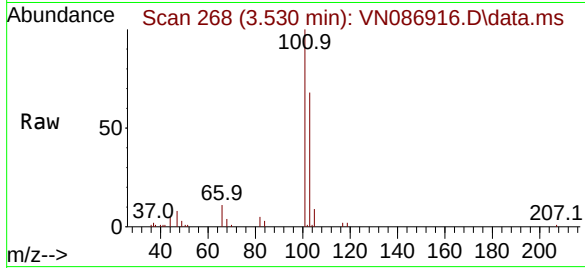
#7
Trichlorofluoromethane
Concen: 18.343 ug/l
RT: 3.530 min Scan# 267
Delta R.T. 0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion:101 Resp: 79520
Ion Ratio Lower Upper
101 100
103 67.6 52.2 78.2

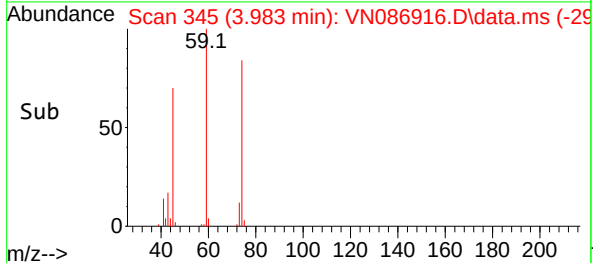
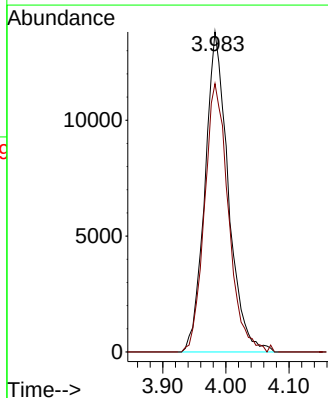
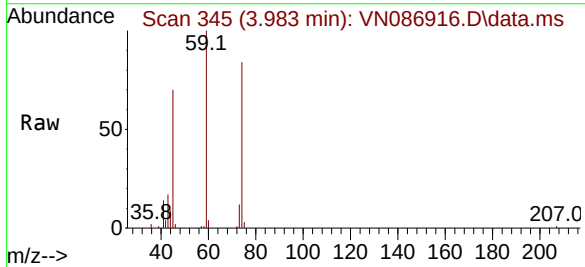
Manual Integrations
APPROVED

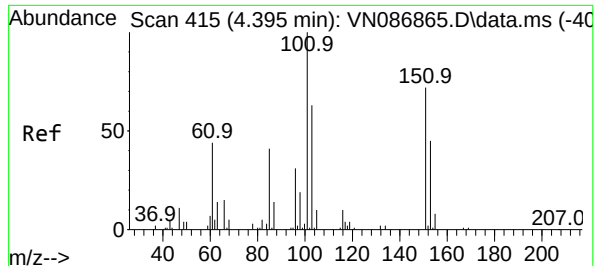
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#8
Diethyl Ether
Concen: 18.798 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion: 74 Resp: 35508
Ion Ratio Lower Upper
74 100
45 86.0 45.5 136.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.208 ug/l

RT: 4.400 min Scan# 415

Delta R.T. 0.006 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0610WBS01

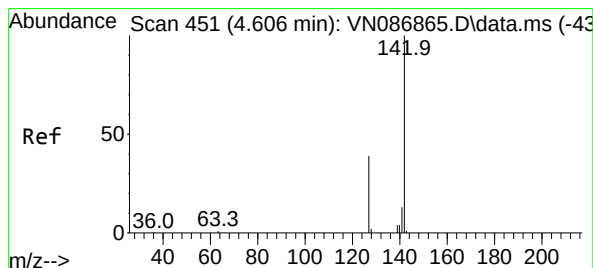
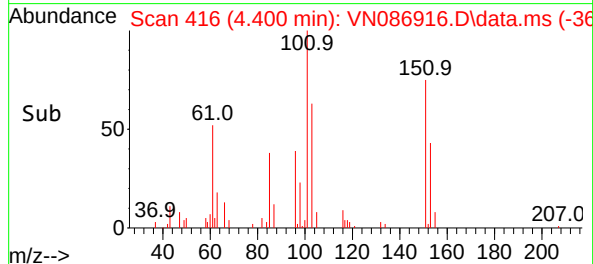
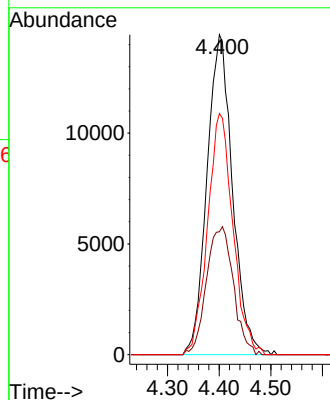
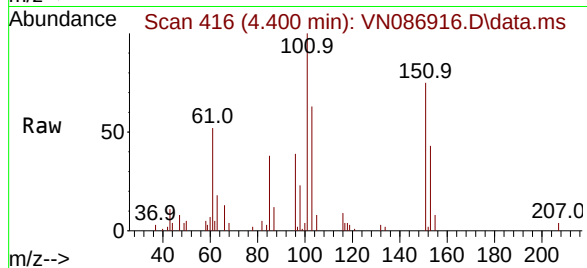
Tgt Ion:	101	Resp:	49590
Ion	Ratio	Lower	Upper
101	100		
85	42.1	33.8	50.8
151	74.8	58.7	88.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#10

Methyl Iodide

Concen: 14.703 ug/l

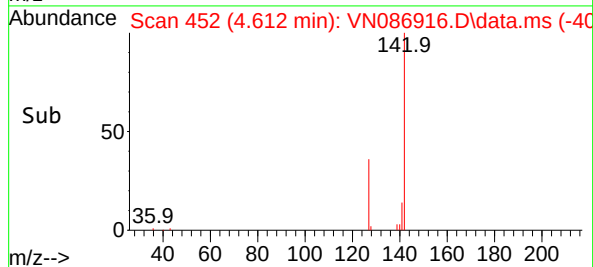
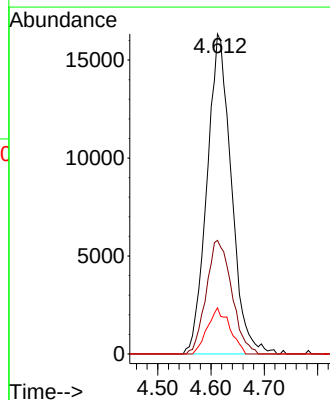
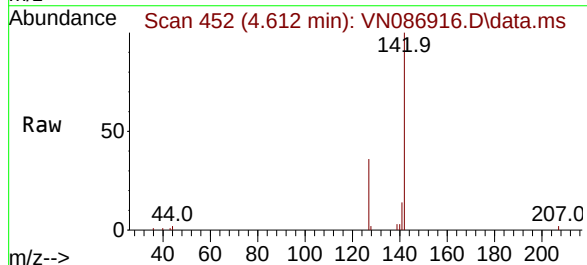
RT: 4.612 min Scan# 452

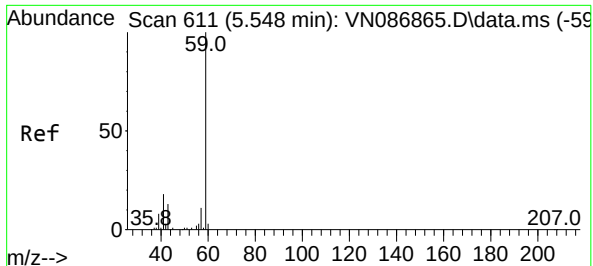
Delta R.T. 0.006 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

Tgt Ion:	142	Resp:	51915
Ion	Ratio	Lower	Upper
142	100		
127	35.5	30.9	46.3
141	14.4	10.4	15.6





#11

Tert butyl alcohol

Concen: 82.194 ug/l

RT: 5.530 min Scan# 60

Delta R.T. -0.018 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0610WBS01

Tgt Ion: 59 Resp: 7460

Ion Ratio Lower Upper

59 100

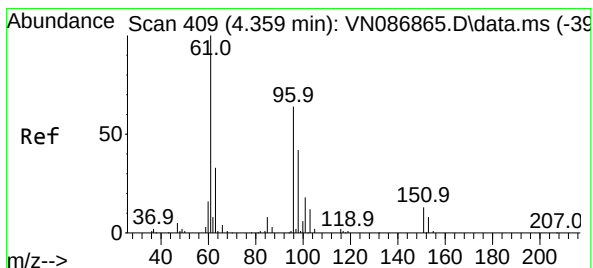
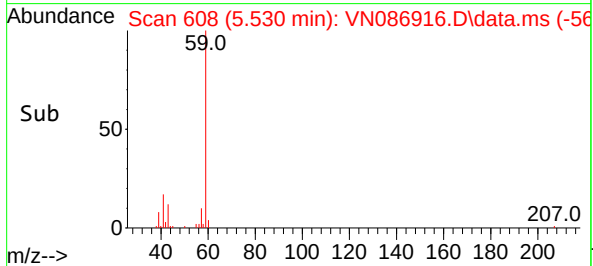
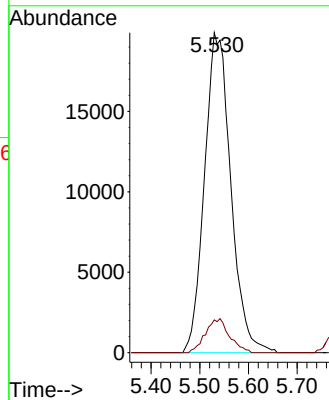
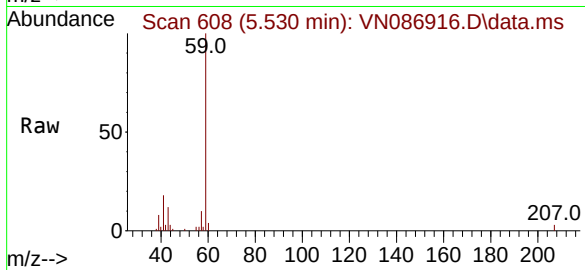
57 9.7 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#12

1,1-Dichloroethene

Concen: 18.744 ug/l

RT: 4.365 min Scan# 410

Delta R.T. 0.006 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

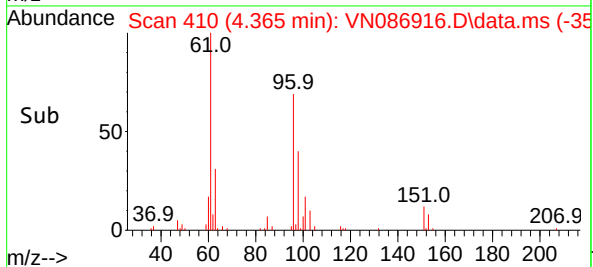
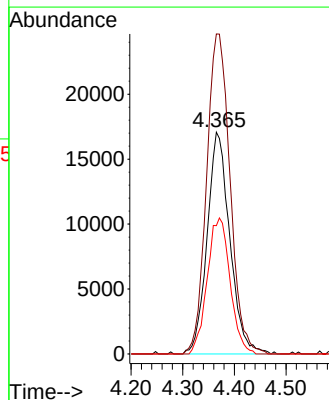
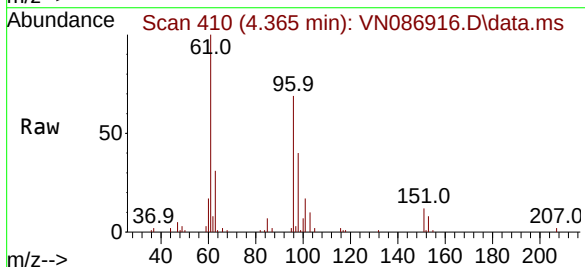
Tgt Ion: 96 Resp: 52125

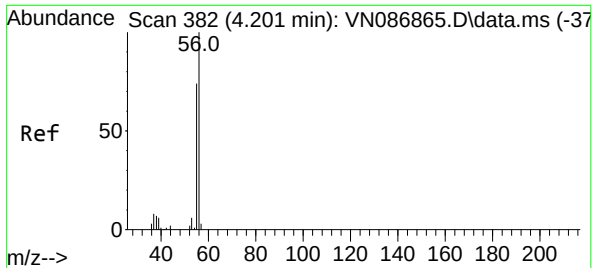
Ion Ratio Lower Upper

96 100

61 144.3 125.8 188.6

98 57.9 52.5 78.7





#13

Acrolein

Concen: 78.459 ug/l

RT: 4.200 min Scan# 382

Delta R.T. -0.000 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0610WBS01

Tgt Ion: 56 Resp: 2254

Ion Ratio Lower Upper

56 100

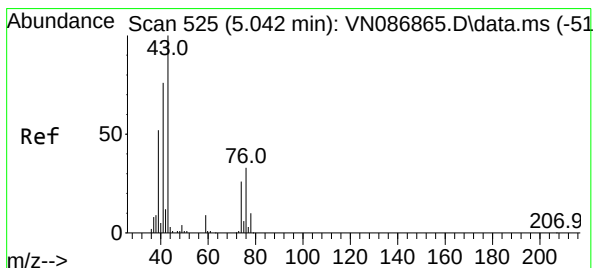
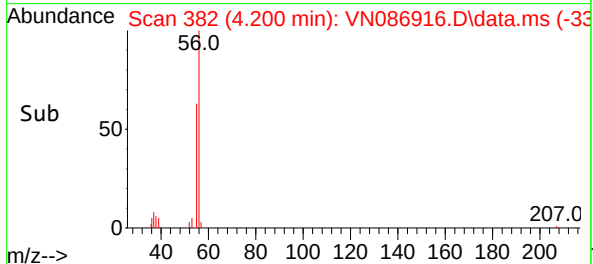
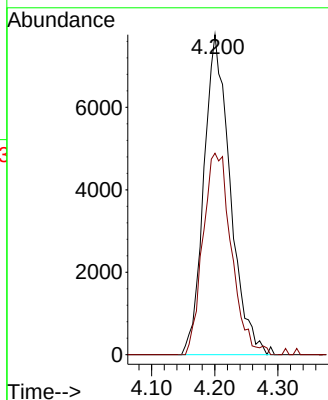
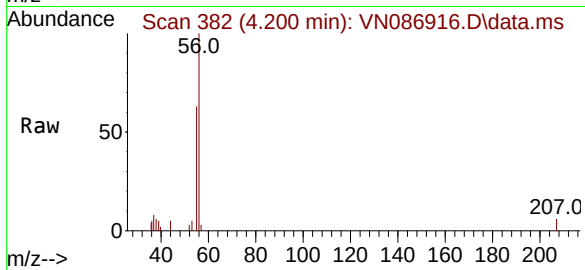
55 68.0 55.6 83.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#14

Allyl chloride

Concen: 16.947 ug/l

RT: 5.047 min Scan# 526

Delta R.T. 0.006 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

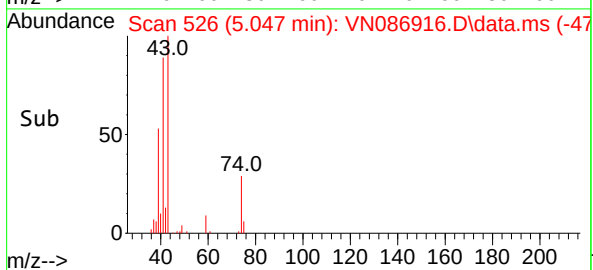
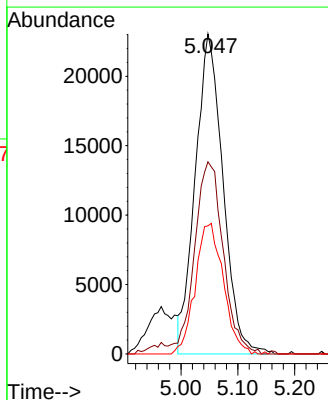
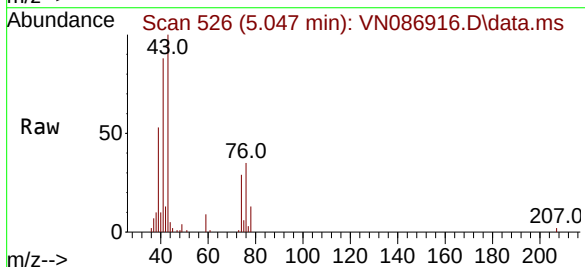
Tgt Ion: 41 Resp: 78157

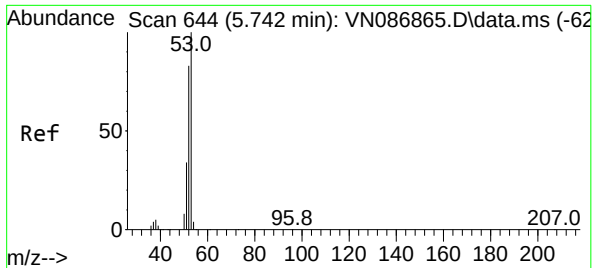
Ion Ratio Lower Upper

41 100

39 62.2 51.3 76.9

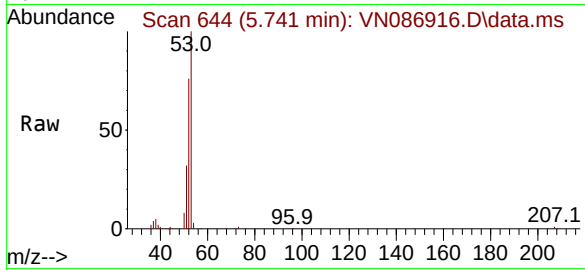
76 41.3 31.4 47.0





#15
Acrylonitrile
Concen: 89.429 ug/l
RT: 5.741 min Scan# 644
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

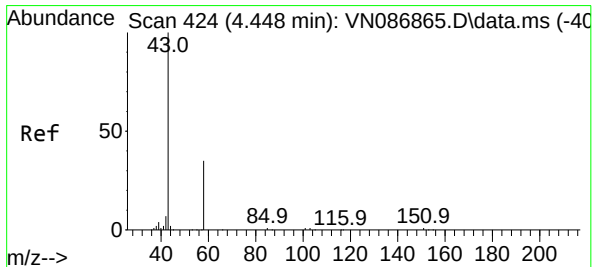
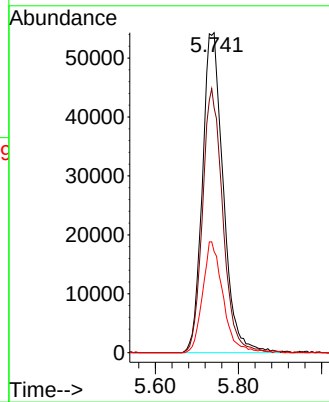
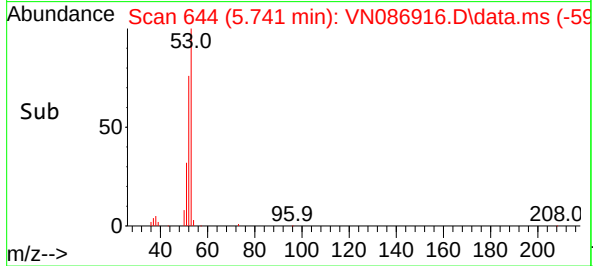
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01



Tgt Ion: 53 Resp: 18972
Ion Ratio Lower Upper
53 100
52 79.9 65.0 97.6
51 33.6 27.2 40.8

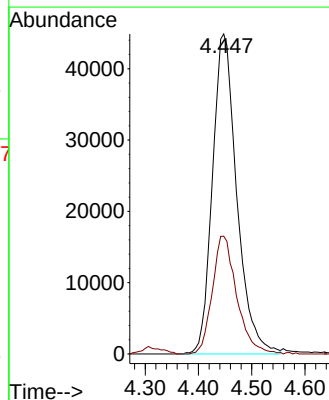
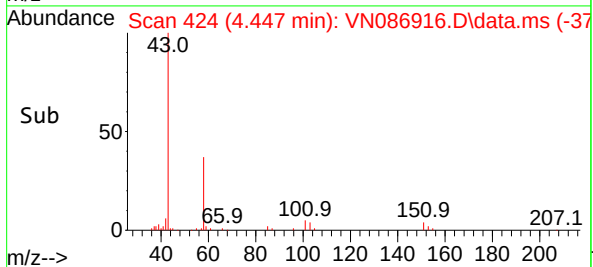
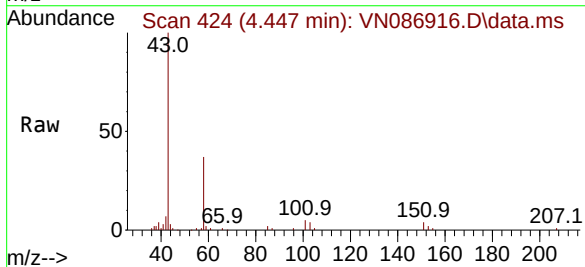
Manual Integrations
APPROVED

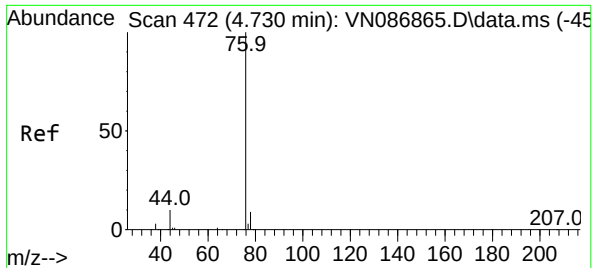
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#16
Acetone
Concen: 80.306 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion: 43 Resp: 142458
Ion Ratio Lower Upper
43 100
58 36.8 28.0 42.0





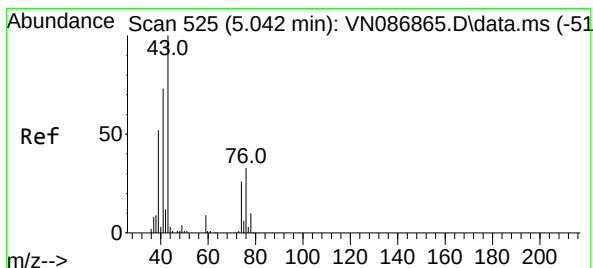
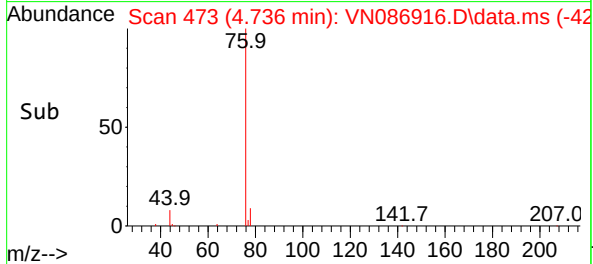
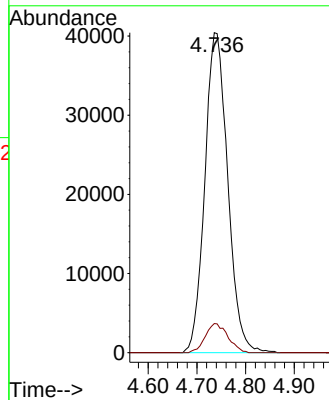
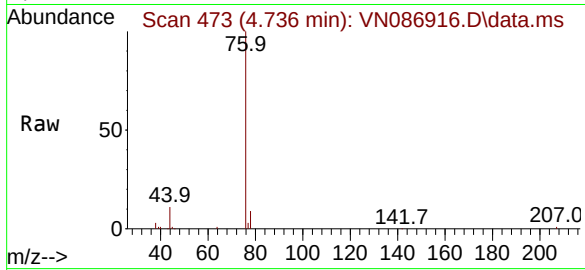
#17
Carbon Disulfide
Concen: 17.144 ug/l
RT: 4.736 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion: 76 Resp: 13187
Ion Ratio Lower Upper
76 100
78 9.1 7.3 10.9

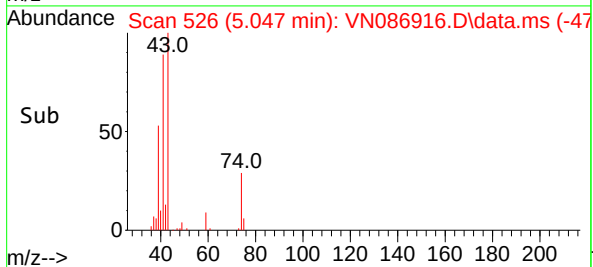
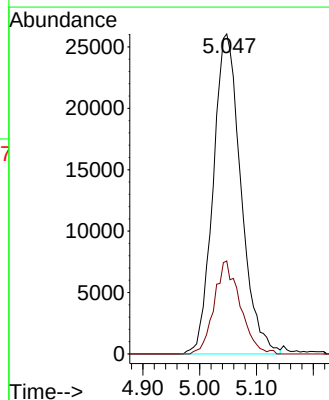
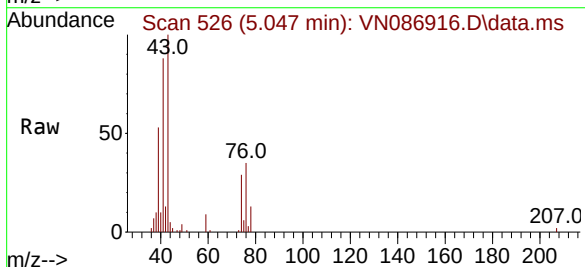
Manual Integrations
APPROVED

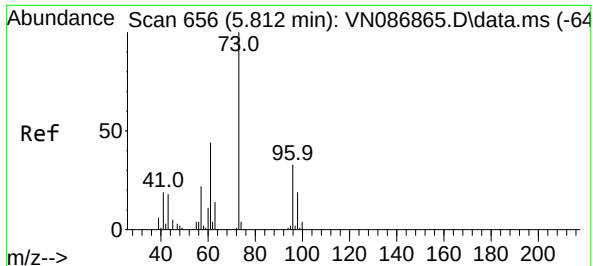
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#18
Methyl Acetate
Concen: 17.129 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion: 43 Resp: 88551
Ion Ratio Lower Upper
43 100
74 27.2 20.7 31.1





#19

Methyl tert-butyl Ether

Concen: 18.655 ug/l

RT: 5.812 min Scan# 656

Delta R.T. -0.000 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0610WBS01

Tgt Ion: 73 Resp: 18783

Ion Ratio Lower Upper

73 100

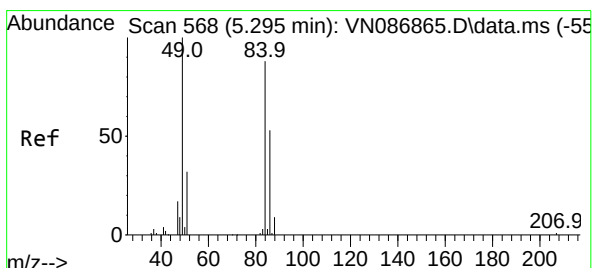
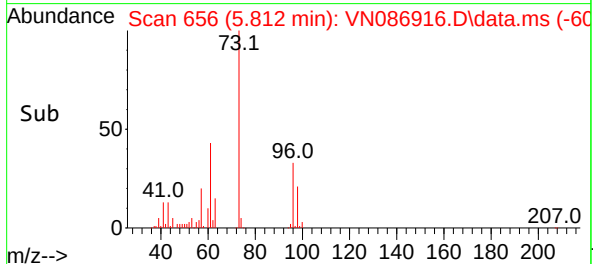
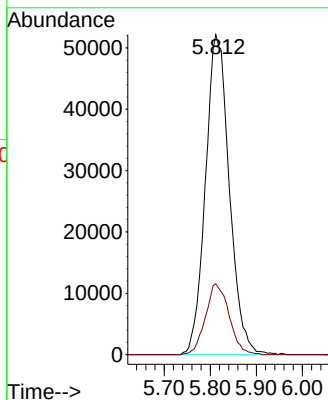
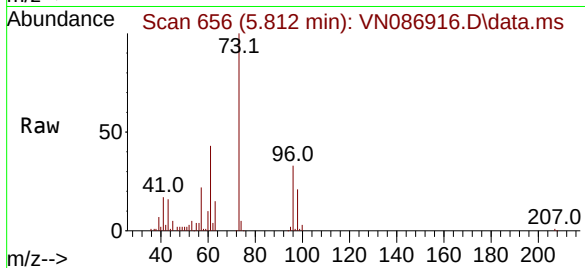
57 22.1 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#20

Methylene Chloride

Concen: 17.365 ug/l

RT: 5.300 min Scan# 569

Delta R.T. 0.006 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

Tgt Ion: 84 Resp: 57671

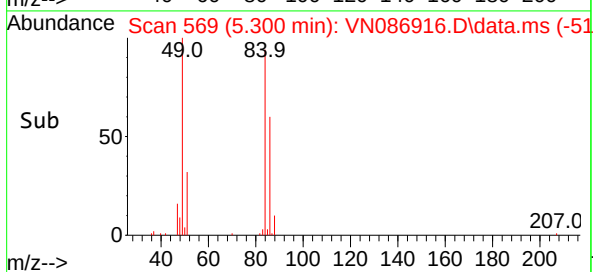
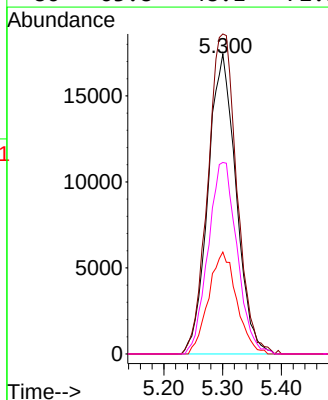
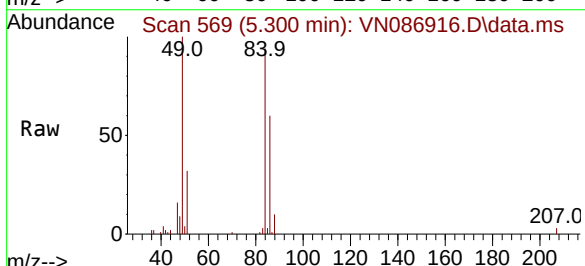
Ion Ratio Lower Upper

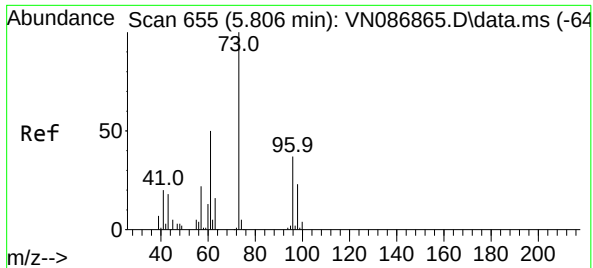
84 100

49 106.7 90.5 135.7

51 34.0 28.5 42.7

86 63.8 48.1 72.1





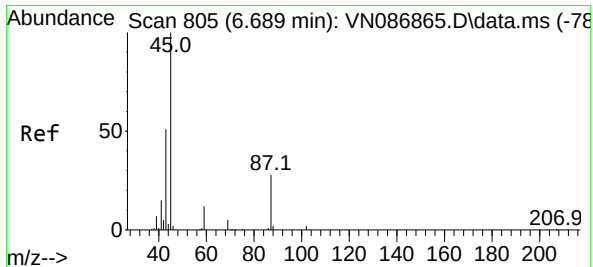
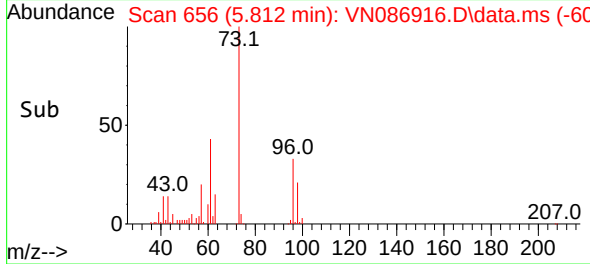
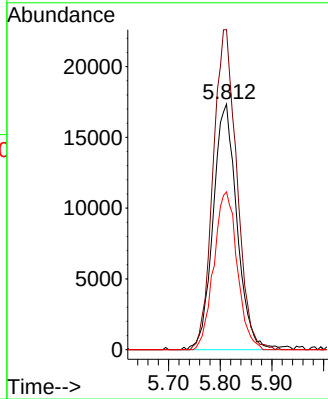
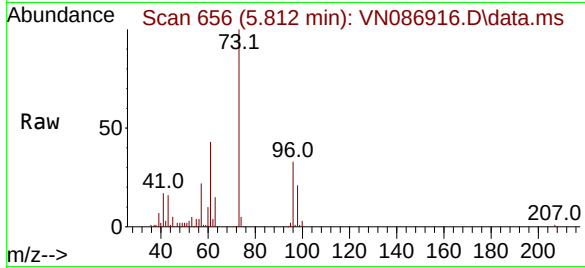
#21
trans-1,2-Dichloroethene
Concen: 17.934 ug/l
RT: 5.812 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion: 96 Resp: 5548
Ion Ratio Lower Upper
96 100
61 130.3 109.2 163.8
98 64.3 49.8 74.8

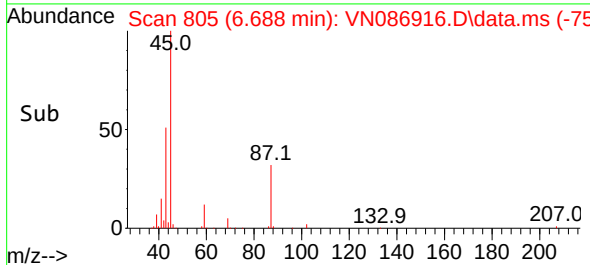
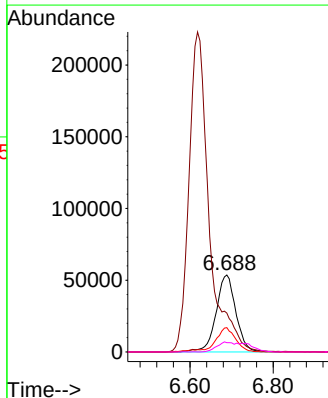
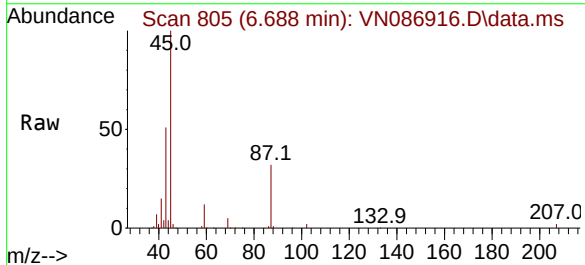
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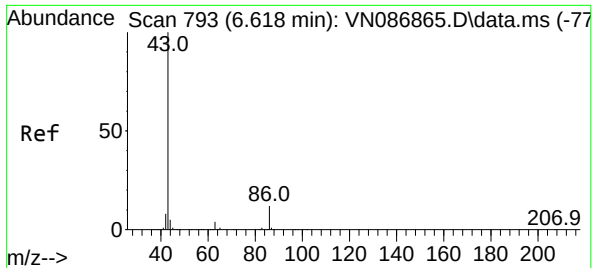
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#22
Diisopropyl ether
Concen: 18.188 ug/l
RT: 6.688 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion: 45 Resp: 176809
Ion Ratio Lower Upper
45 100
43 49.8 41.9 62.9
87 31.5 22.4 33.6
59 12.1 9.8 14.6





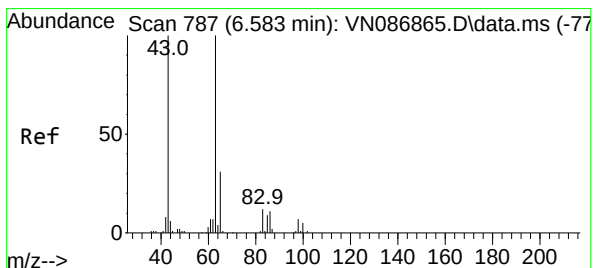
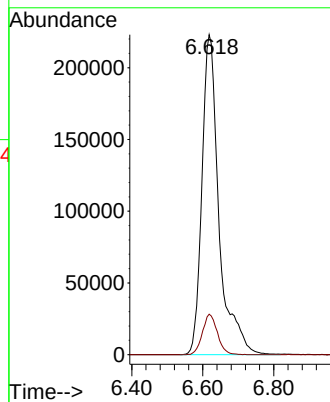
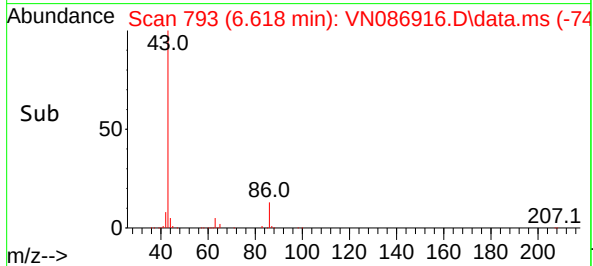
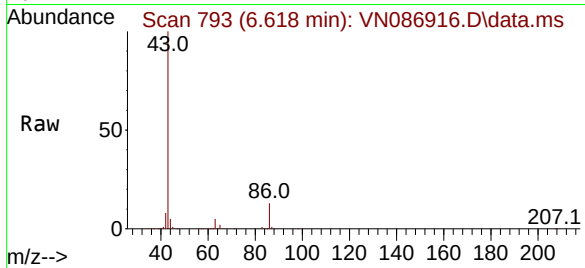
#23
Vinyl Acetate
Concen: 90.687 ug/l
RT: 6.618 min Scan# 793
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion: 43 Resp: 74486
Ion Ratio Lower Upper
43 100
86 12.6 9.5 14.3

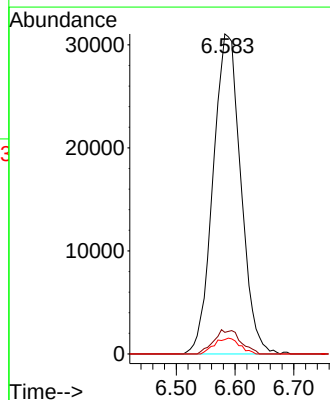
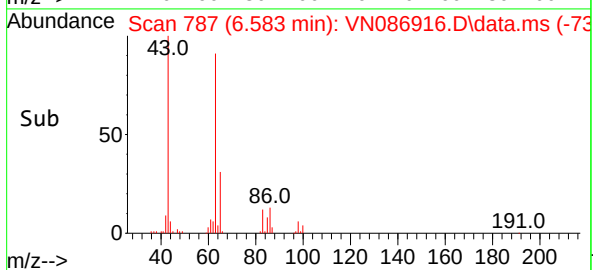
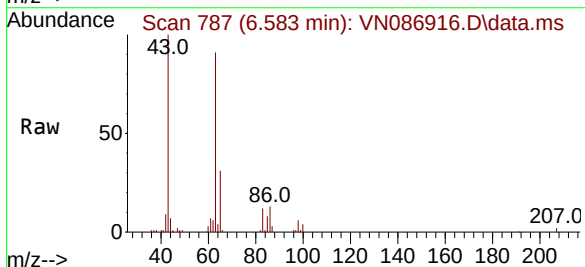
Manual Integrations
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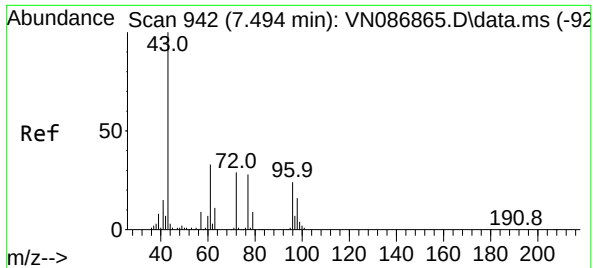
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#24
1,1-Dichloroethane
Concen: 18.173 ug/l
RT: 6.583 min Scan# 787
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion: 63 Resp: 101669
Ion Ratio Lower Upper
63 100
98 6.8 3.6 10.8
100 4.5 2.6 7.8





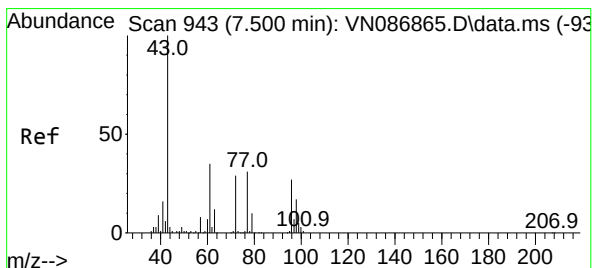
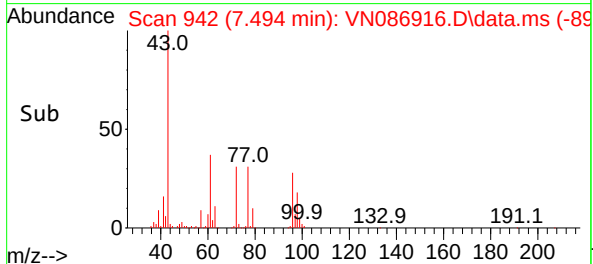
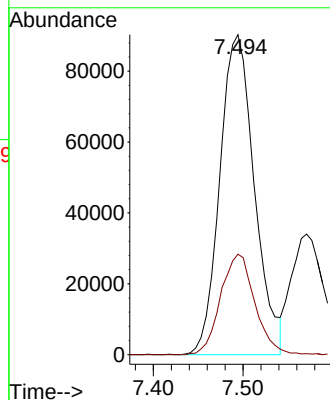
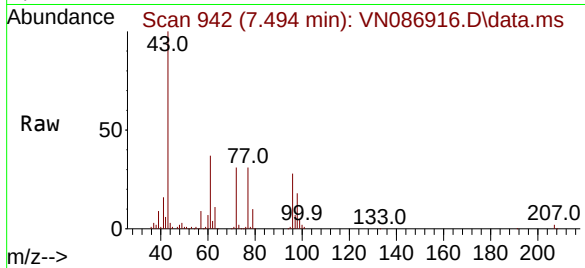
#25
2-Butanone
Concen: 83.991 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion: 43 Resp: 24218
Ion Ratio Lower Upper
43 100
72 31.4 23.0 34.6

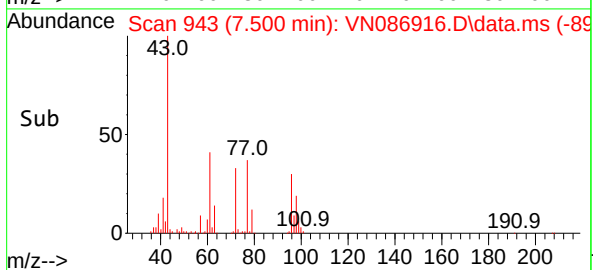
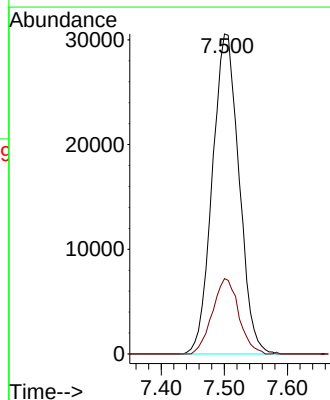
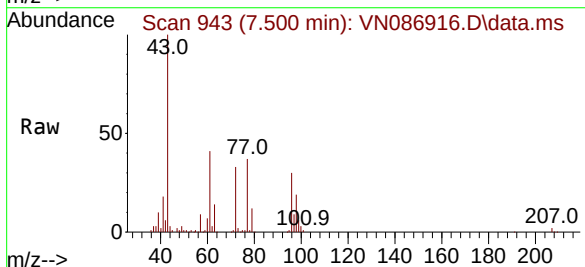
Manual Integrations
APPROVED

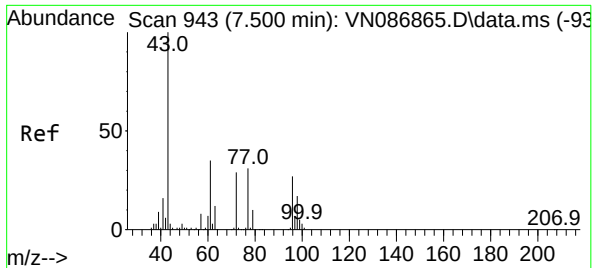
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#26
2,2-Dichloropropane
Concen: 20.596 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

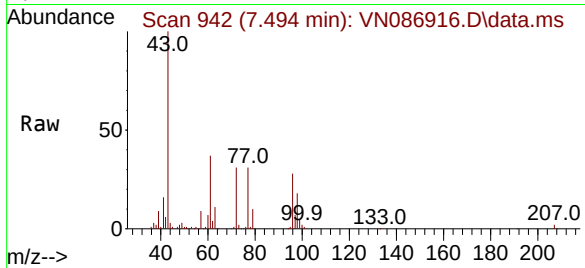
Tgt Ion: 77 Resp: 89631
Ion Ratio Lower Upper
77 100
97 23.2 11.6 34.7





#27
cis-1,2-Dichloroethene
Concen: 18.691 ug/l
RT: 7.494 min Scan# 943
Delta R.T. -0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

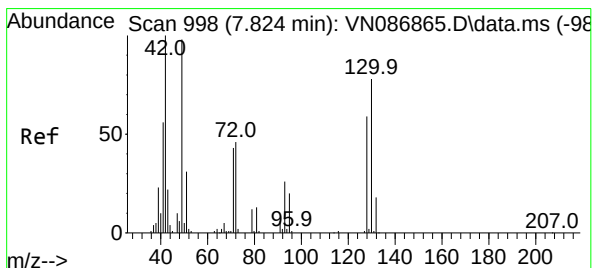
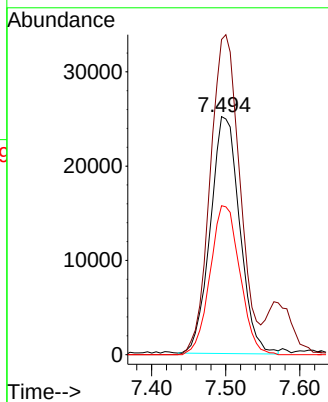
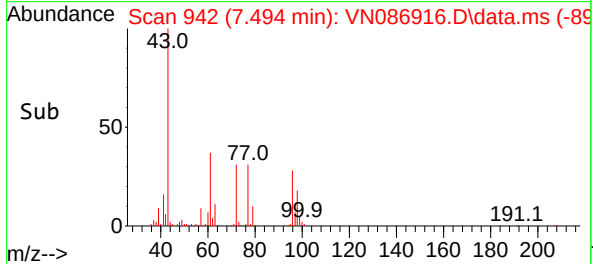
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01



Tgt Ion: 96 Resp: 6915
Ion Ratio Lower Upper
96 100
61 136.8 0.0 278.0
98 63.7 0.0 128.2

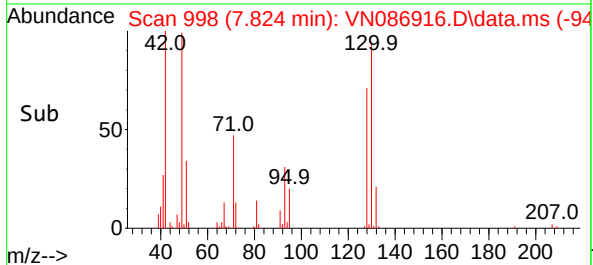
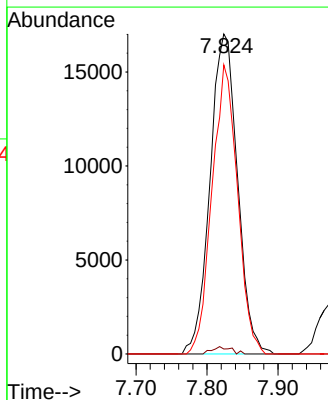
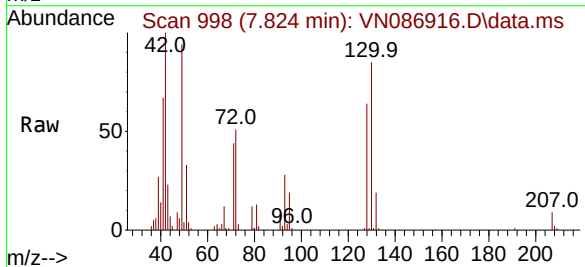
Manual Integrations
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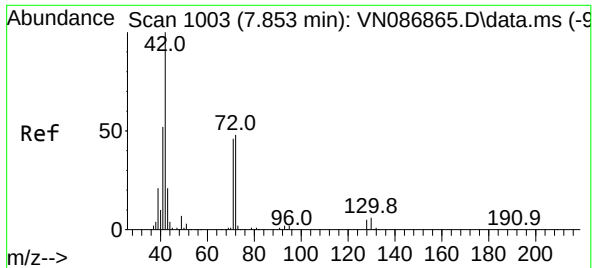
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#28
Bromochloromethane
Concen: 16.632 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion: 49 Resp: 45748
Ion Ratio Lower Upper
49 100
129 1.6 0.0 3.8
130 83.6 62.2 93.2





#29

Tetrahydrofuran

Concen: 85.494 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. -0.006 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0610WBS01

Tgt Ion: 42 Resp: 16059

Ion Ratio Lower Upper

42 100

72 49.5 37.8 56.6

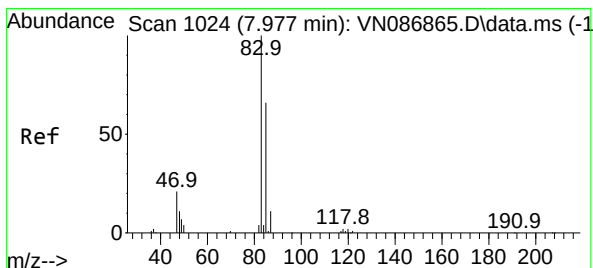
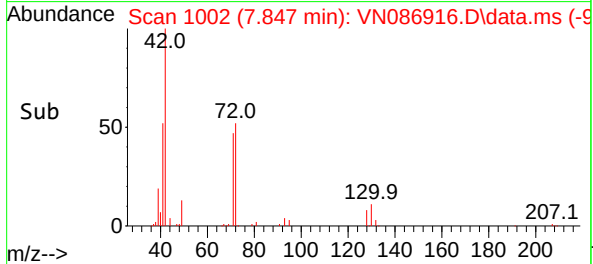
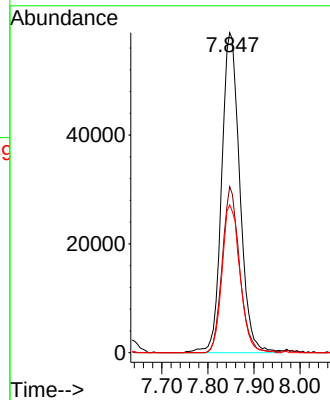
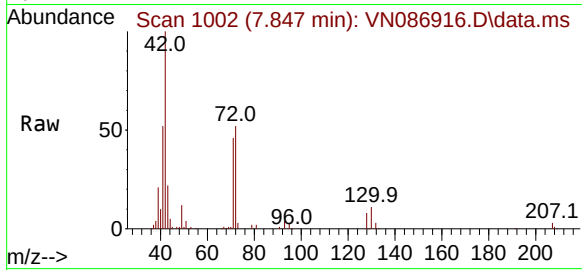
71 45.7 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#30

Chloroform

Concen: 18.184 ug/l

RT: 7.977 min Scan# 1024

Delta R.T. -0.000 min

Lab File: VN086916.D

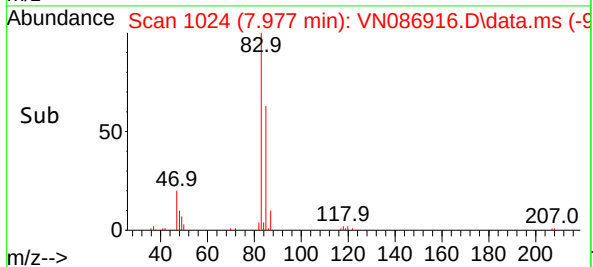
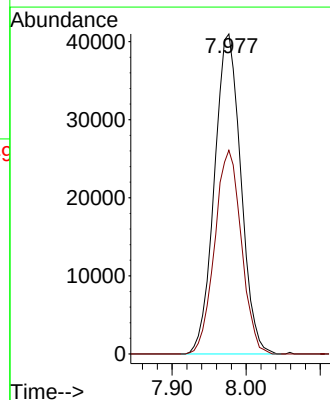
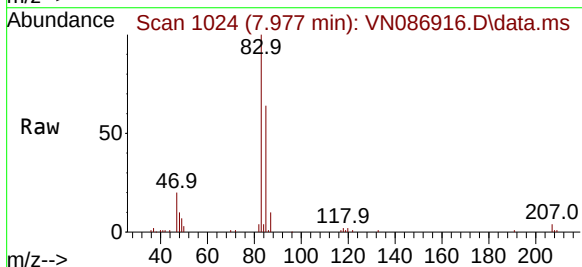
Acq: 10 Jun 2025 10:30

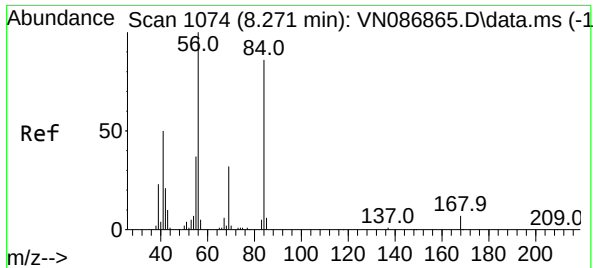
Tgt Ion: 83 Resp: 101594

Ion Ratio Lower Upper

83 100

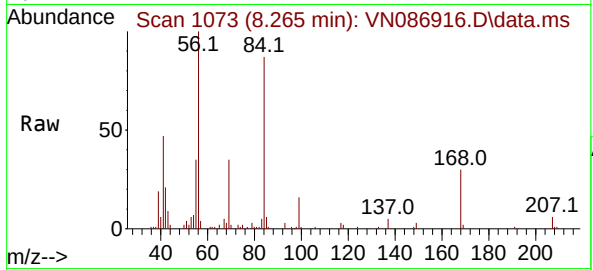
85 63.7 52.9 79.3





#31
Cyclohexane
Concen: 16.494 ug/l
RT: 8.265 min Scan# 1073
Delta R.T. -0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

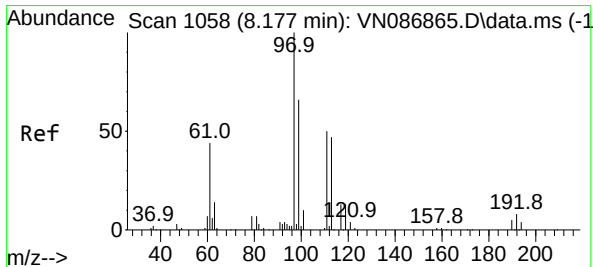
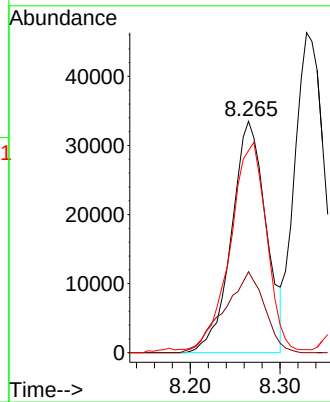
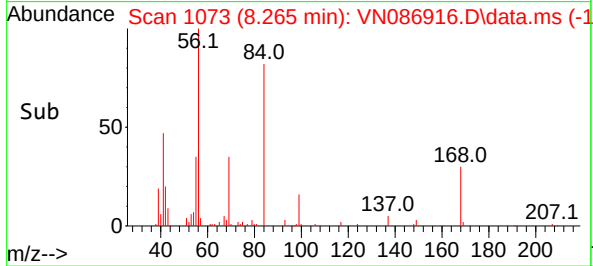
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01



Tgt Ion: 56 Resp: 8948
Ion Ratio Lower Upper
56 100
69 35.0 25.4 38.0
84 85.9 68.8 103.2

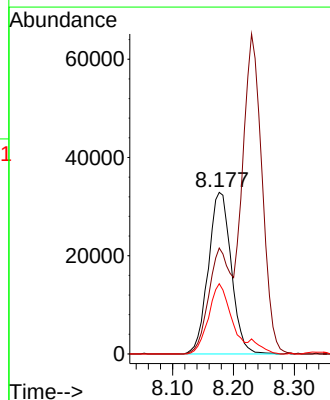
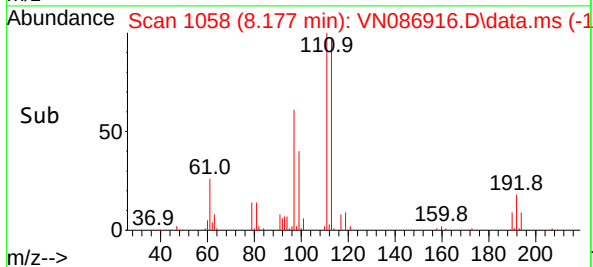
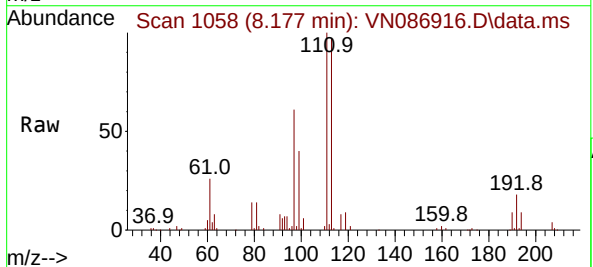
Manual Integrations
APPROVED

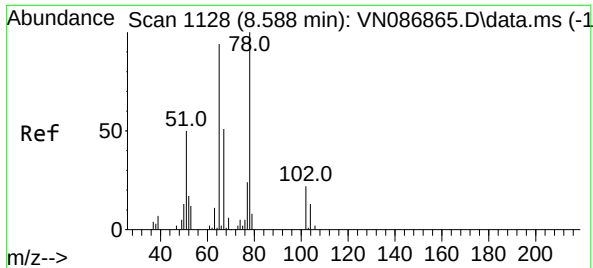
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#32
1,1,1-Trichloroethane
Concen: 18.094 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion: 97 Resp: 85981
Ion Ratio Lower Upper
97 100
99 63.7 52.0 78.0
61 43.5 35.9 53.9





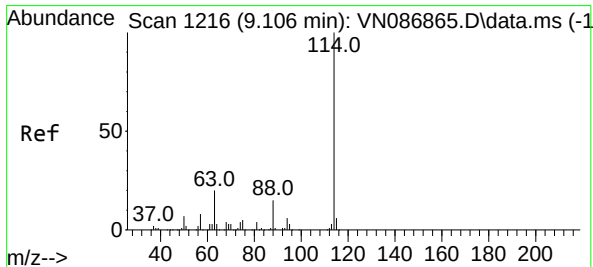
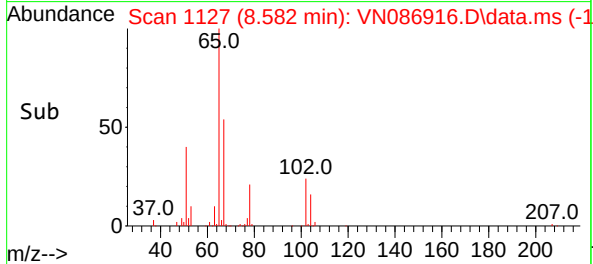
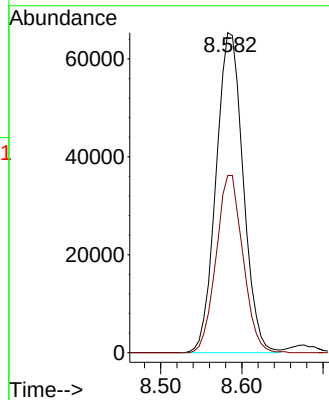
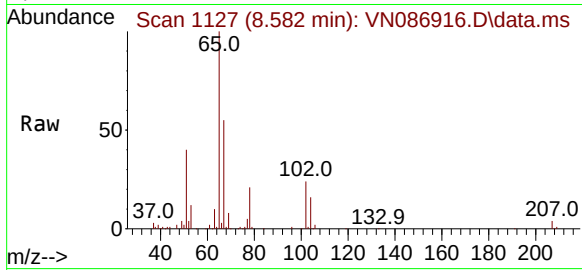
#33
1,2-Dichloroethane-d4
Concen: 45.381 ug/l
RT: 8.582 min Scan# 1128
Delta R.T. -0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion: 65 Resp: 15180
Ion Ratio Lower Upper
65 100
67 54.9 0.0 105.6

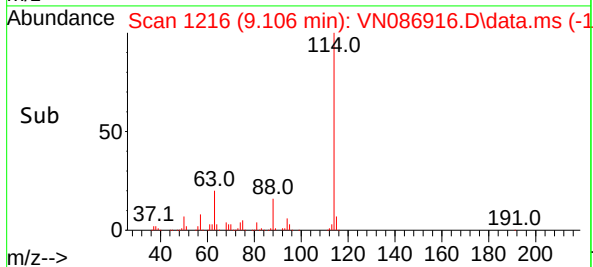
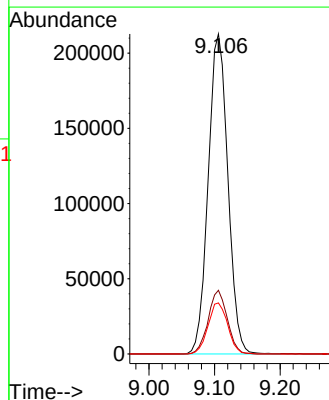
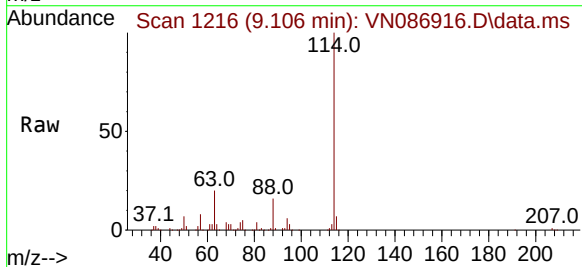
Manual Integrations
APPROVED

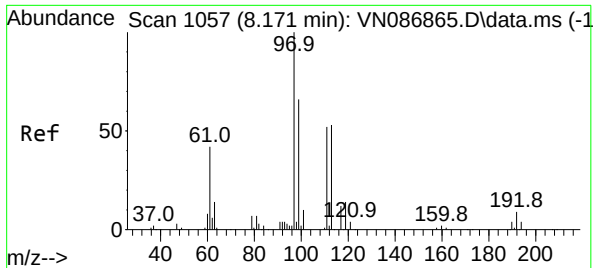
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

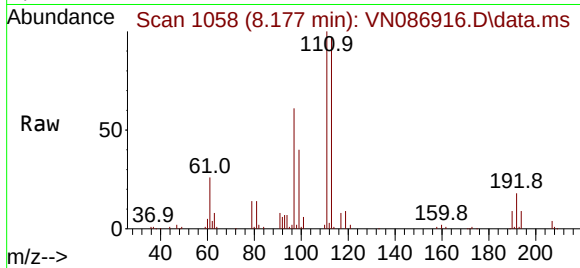
Tgt Ion:114 Resp: 443174
Ion Ratio Lower Upper
114 100
63 19.9 0.0 39.6
88 15.9 0.0 30.2





#35
Dibromofluoromethane
Concen: 49.474 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

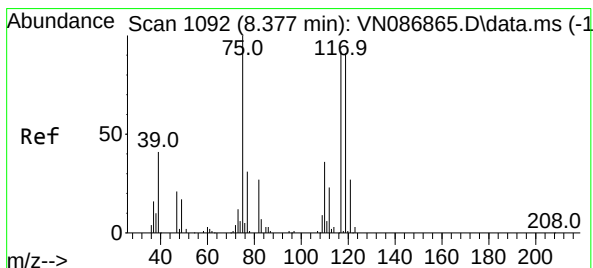
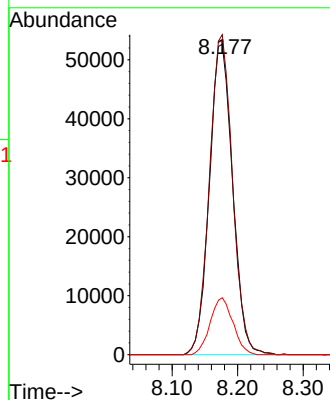
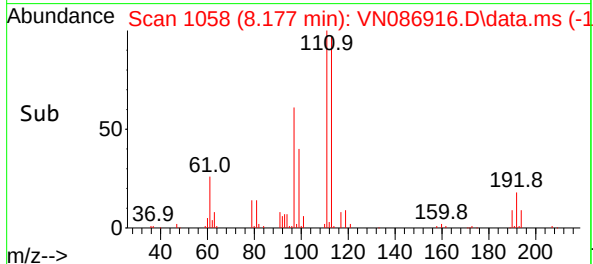
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01



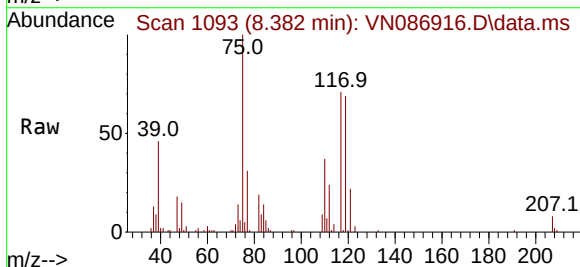
Tgt Ion: 113 Resp: 12993
Ion Ratio Lower Upper
113 100
111 102.0 84.2 126.2
192 17.9 14.2 21.4

Manual Integrations
APPROVED

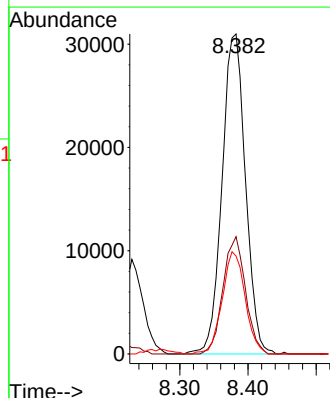
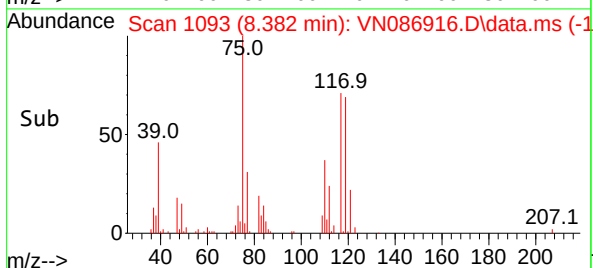
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

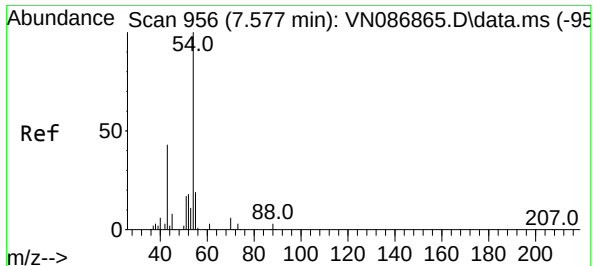


#36
1,1-Dichloropropene
Concen: 18.942 ug/l
RT: 8.382 min Scan# 1093
Delta R.T. 0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30



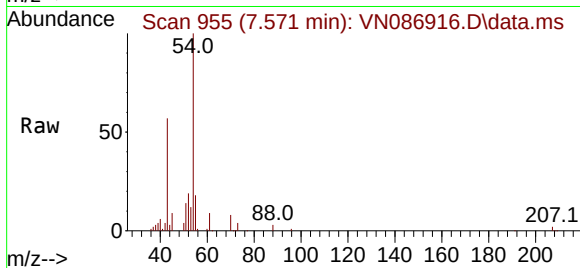
Tgt Ion: 75 Resp: 74129
Ion Ratio Lower Upper
75 100
110 35.1 17.6 52.9
77 31.3 25.3 37.9





#37
Ethyl Acetate
Concen: 17.812 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

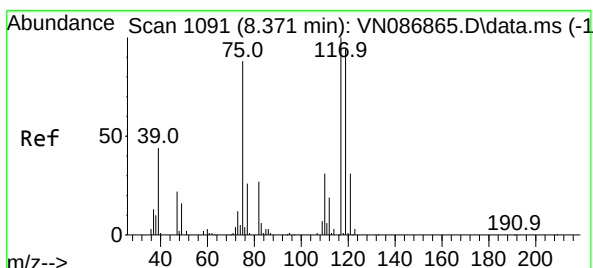
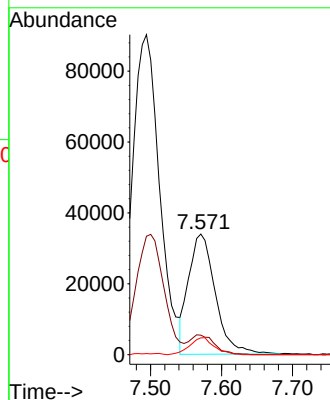
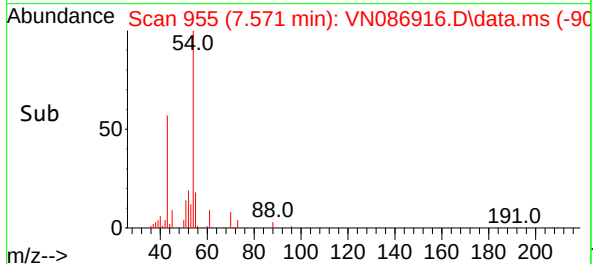
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01



Tgt Ion: 43 Resp: 88740
Ion Ratio Lower Upper
43 100
61 15.4 12.1 18.1
70 12.8 9.8 14.6

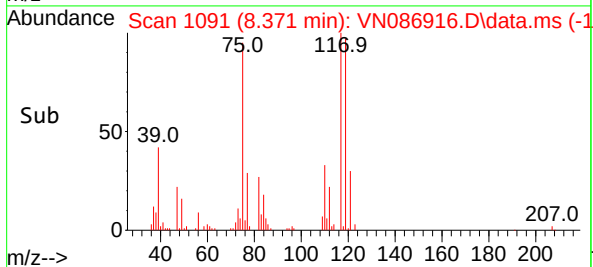
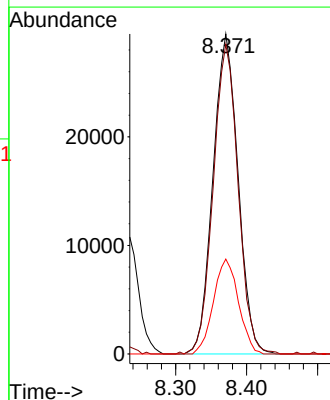
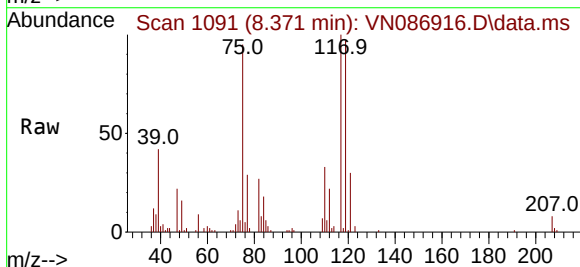
Manual Integrations
APPROVED

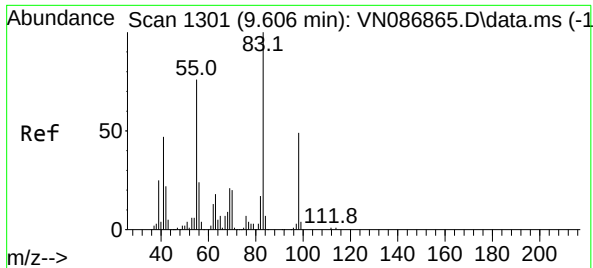
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#38
Carbon Tetrachloride
Concen: 18.777 ug/l
RT: 8.371 min Scan# 1091
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion:117 Resp: 72144
Ion Ratio Lower Upper
117 100
119 96.8 75.0 112.6
121 29.7 24.9 37.3





#39

Methylcyclohexane

Concen: 15.942 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

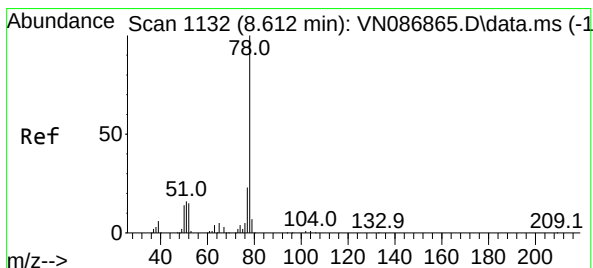
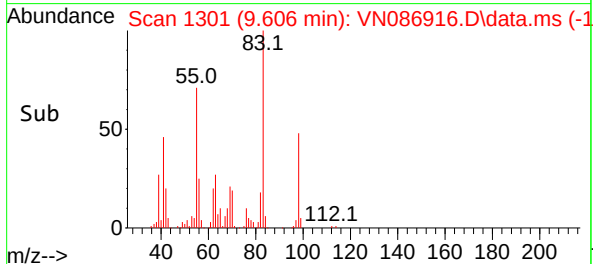
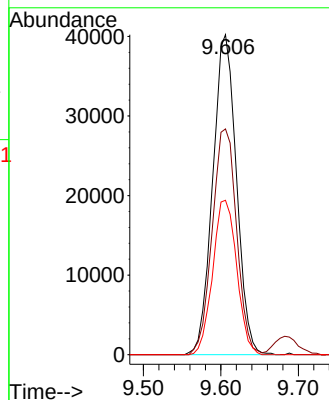
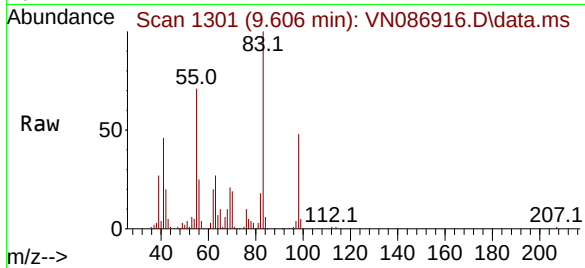
VN0610WBS01

Tgt Ion:	83	Resp:	85470
Ion	Ratio	Lower	Upper
83	100		
55	70.6	61.0	91.6
98	48.3	38.9	58.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#40

Benzene

Concen: 18.458 ug/l

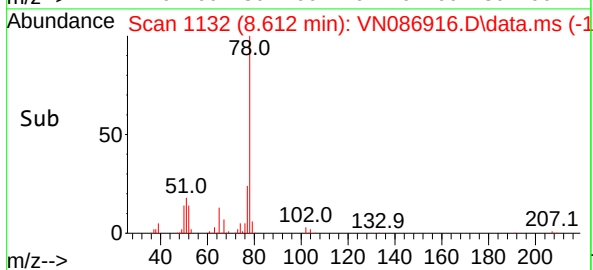
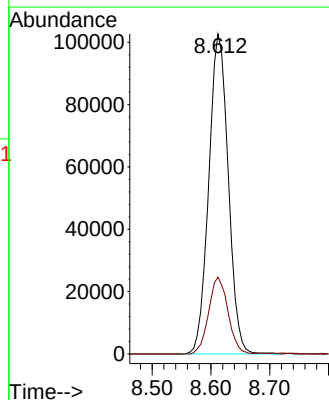
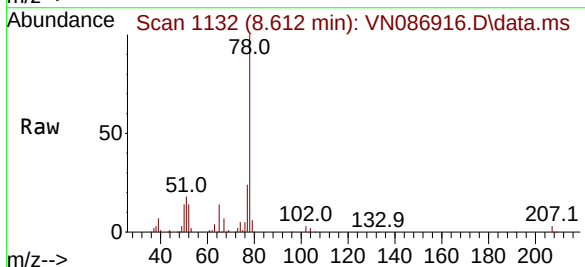
RT: 8.612 min Scan# 1132

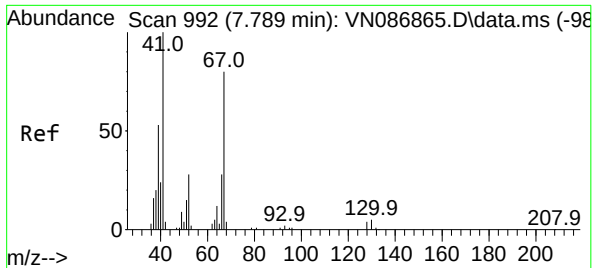
Delta R.T. -0.000 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

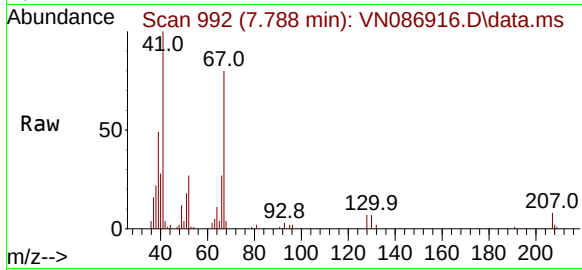
Tgt Ion:	78	Resp:	236213
Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.7	28.1





#41
Methacrylonitrile
Concen: 17.200 ug/l
RT: 7.788 min Scan# 992
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

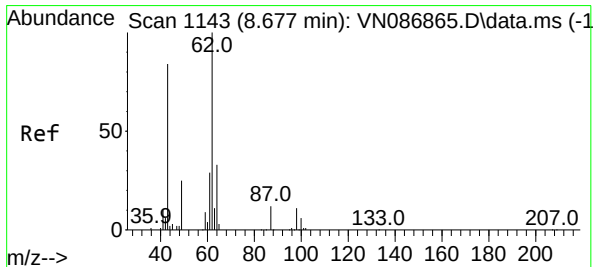
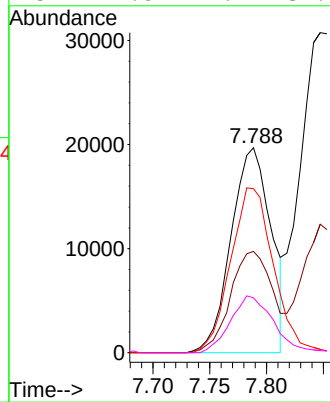
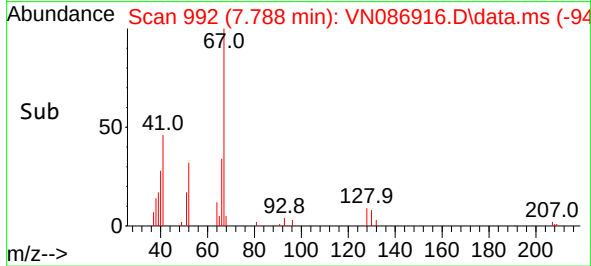
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01



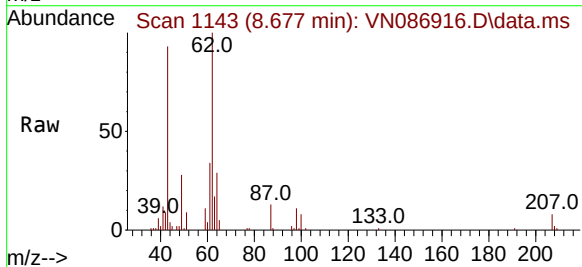
Tgt Ion: 41 Resp: 48124
Ion Ratio Lower Upper
41 100
39 53.7 41.2 61.8
67 86.4 61.4 92.2
52 29.8 22.7 34.1

Manual Integrations
APPROVED

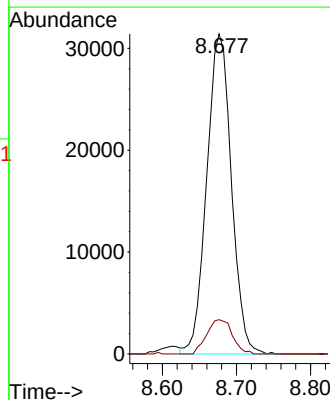
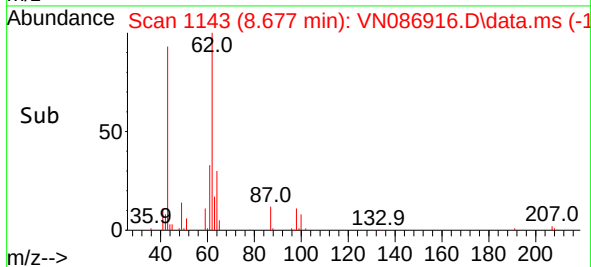
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

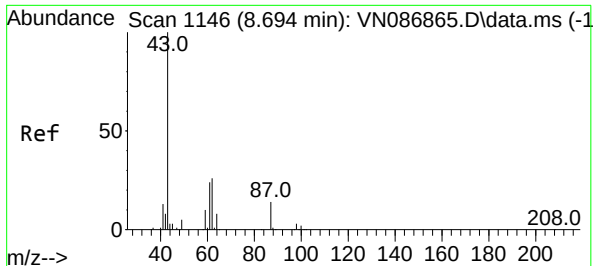


#42
1,2-Dichloroethane
Concen: 18.727 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30



Tgt Ion: 62 Resp: 72690
Ion Ratio Lower Upper
62 100
98 11.1 0.0 21.2





#43

Isopropyl Acetate

Concen: 18.014 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

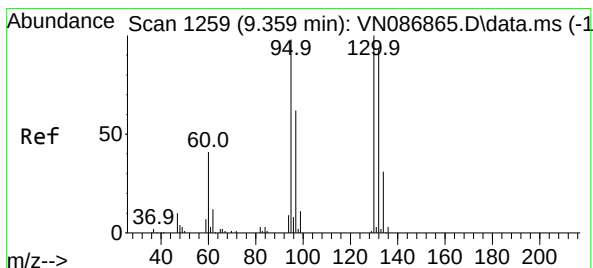
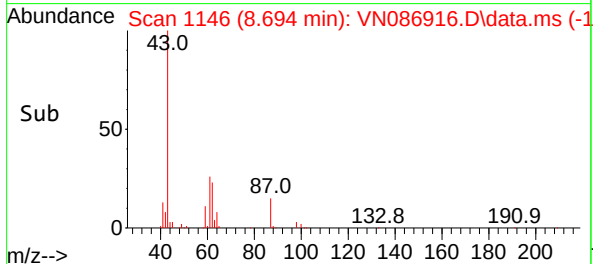
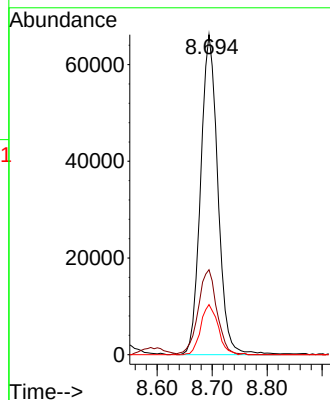
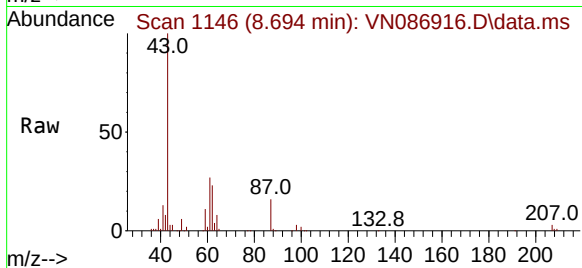
VN0610WBS01

Tgt Ion:	43	Resp:	14403
Ion	Ratio	Lower	Upper
43	100		
61	29.0	22.1	33.1
87	15.9	11.8	17.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#44

Trichloroethene

Concen: 19.262 ug/l

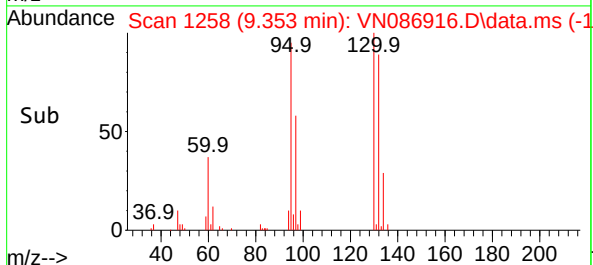
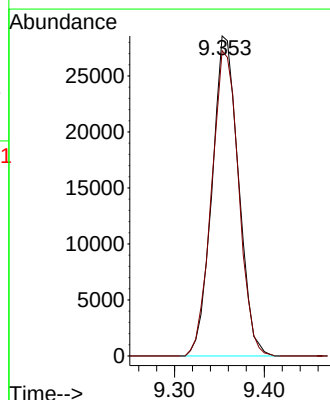
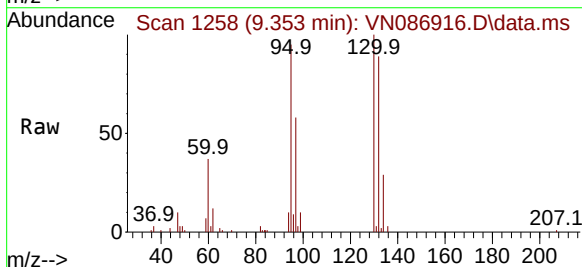
RT: 9.353 min Scan# 1258

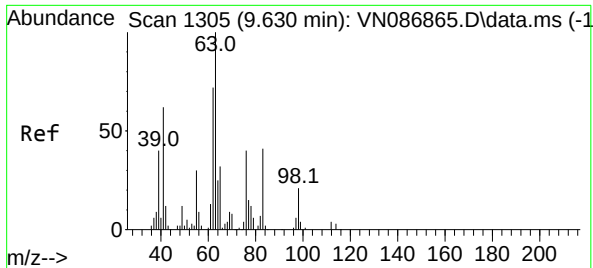
Delta R.T. -0.006 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

Tgt Ion:	130	Resp:	58449
Ion	Ratio	Lower	Upper
130	100		
95	95.4	0.0	196.2





#45

1,2-Dichloropropane

Concen: 18.644 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. -0.006 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0610WBS01

Tgt Ion: 63 Resp: 5804

Ion Ratio Lower Upper

63 100

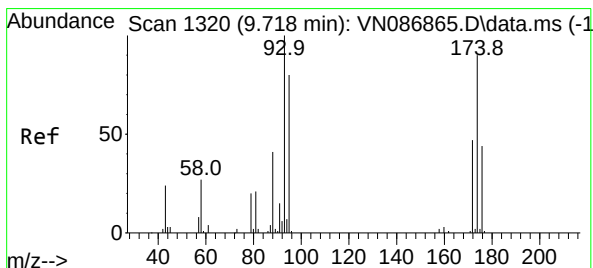
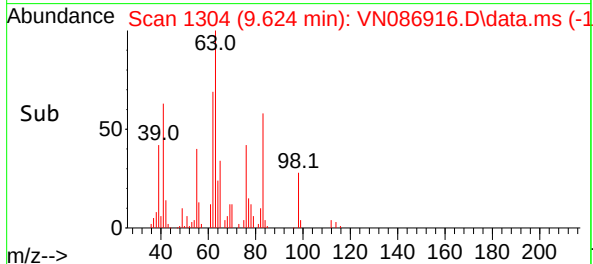
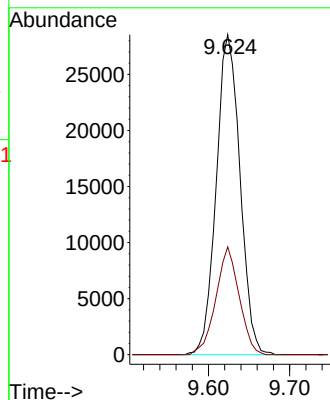
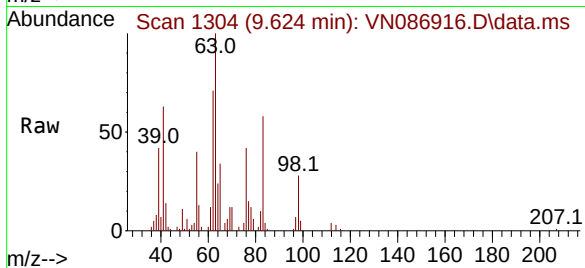
65 33.7 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#46

Dibromomethane

Concen: 18.970 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. -0.006 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

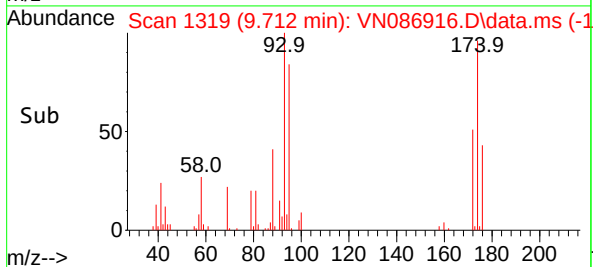
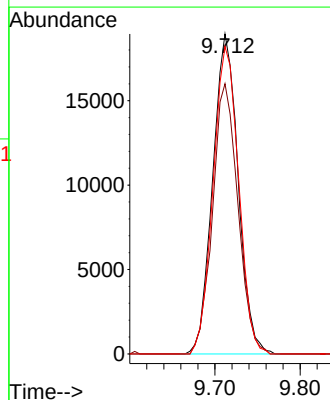
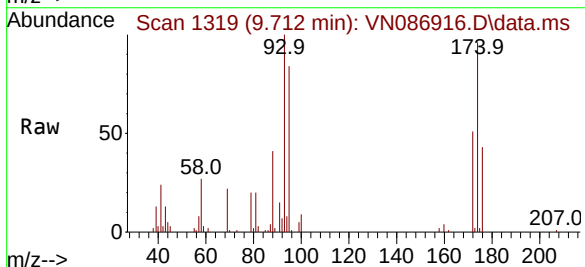
Tgt Ion: 93 Resp: 39229

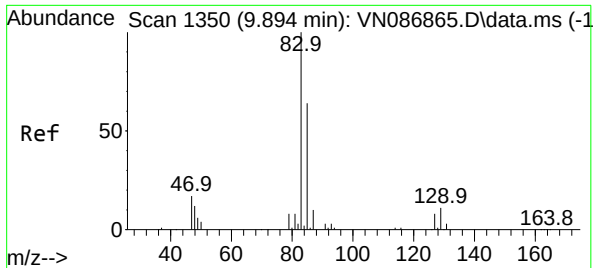
Ion Ratio Lower Upper

93 100

95 84.5 67.1 100.7

174 96.7 74.2 111.4





#47

Bromodichloromethane

Concen: 18.810 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.006 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0610WBS01

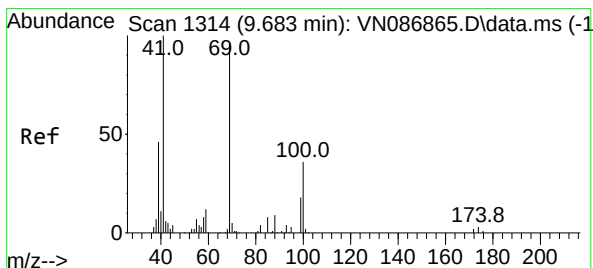
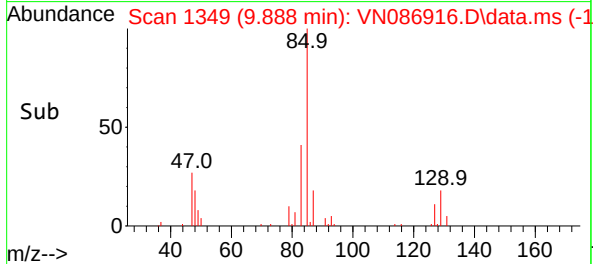
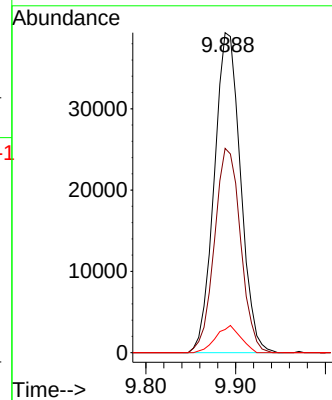
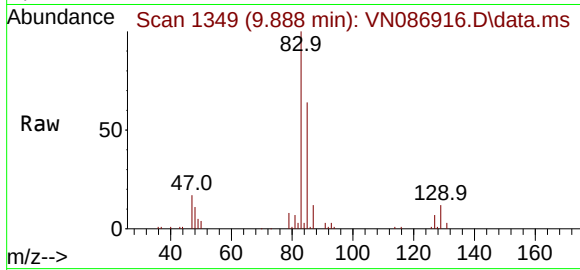
Tgt Ion:	83	Resp:	80034
Ion	Ratio	Lower	Upper
83	100		
85	63.9	50.9	76.3
127	7.2	6.6	10.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#48

Methyl methacrylate

Concen: 17.567 ug/l

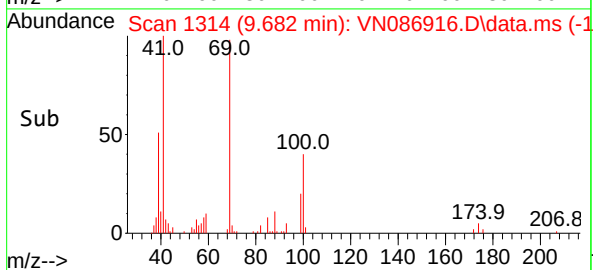
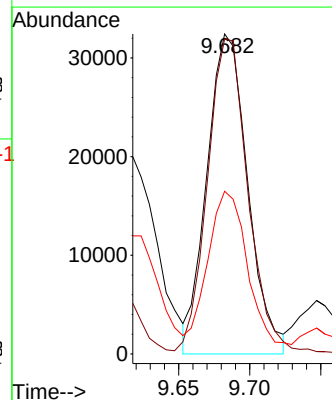
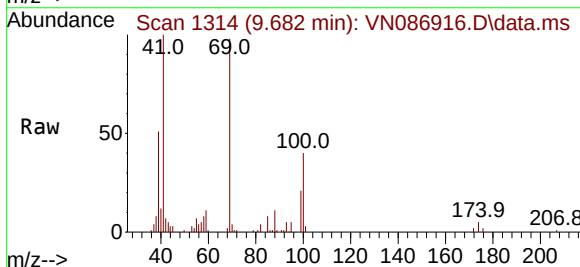
RT: 9.682 min Scan# 1314

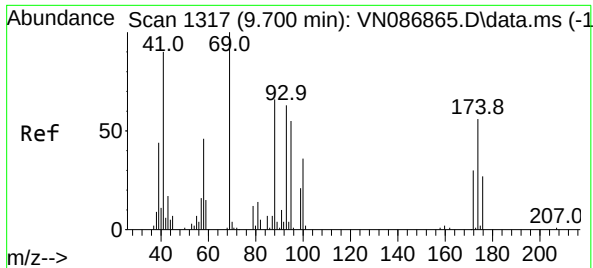
Delta R.T. -0.000 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

Tgt Ion:	41	Resp:	64650
Ion	Ratio	Lower	Upper
41	100		
69	98.8	74.6	112.0
39	51.7	40.2	60.4





#49

1,4-Dioxane

Concen: 353.325 ug/l

RT: 9.700 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0610WBS01

Tgt Ion: 88 Resp: 23650

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

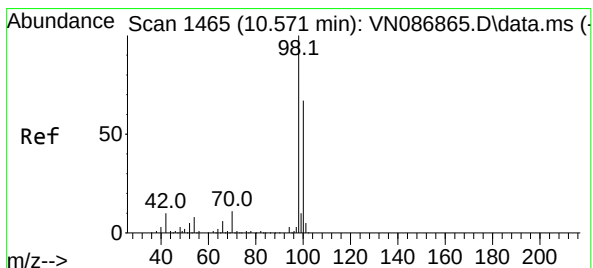
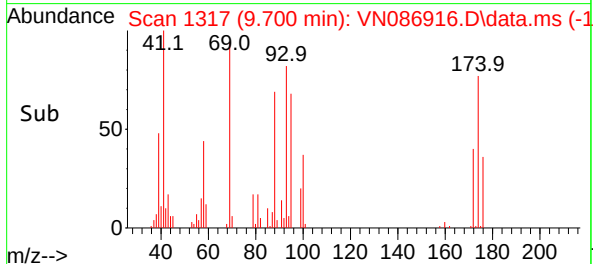
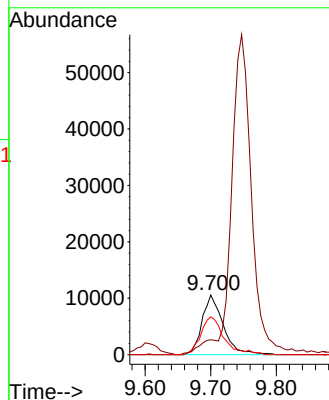
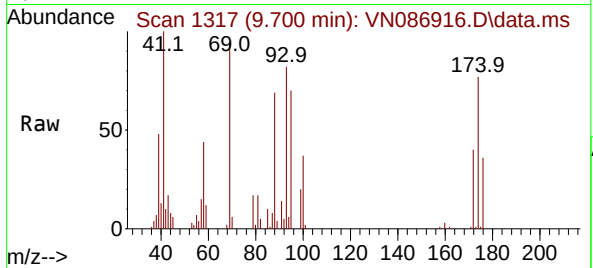
58 70.2 57.7 86.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#50

Toluene-d8

Concen: 48.620 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN086916.D

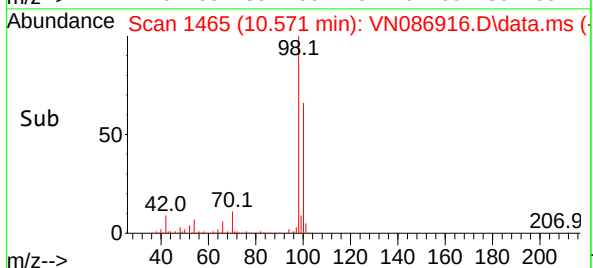
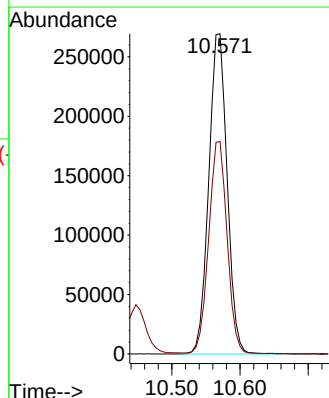
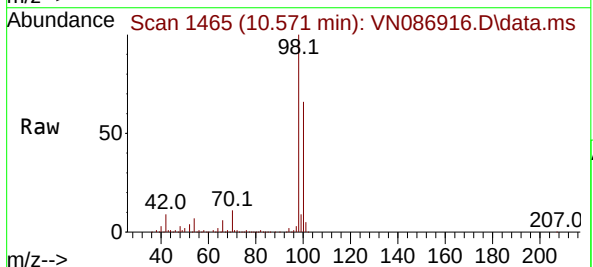
Acq: 10 Jun 2025 10:30

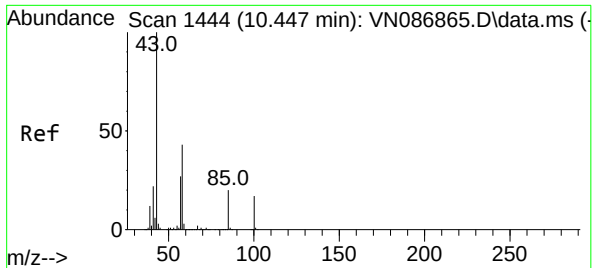
Tgt Ion: 98 Resp: 505508

Ion Ratio Lower Upper

98 100

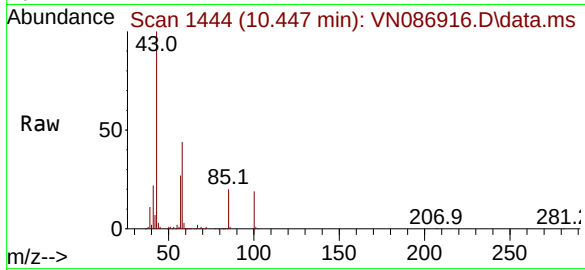
100 66.9 53.4 80.0





#51
4-Methyl-2-Pentanone
Concen: 91.469 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

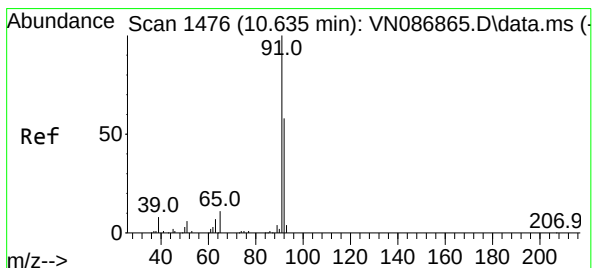
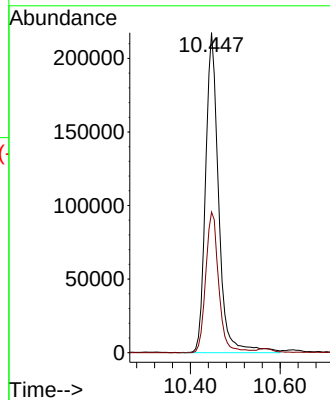
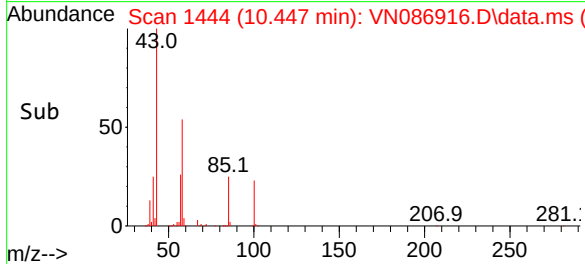
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01



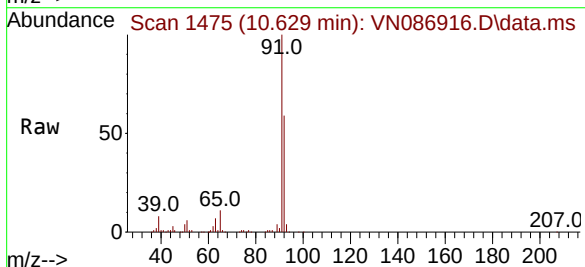
Tgt Ion: 43 Resp: 44030
Ion Ratio Lower Upper
43 100
58 43.8 34.2 51.4

Manual Integrations
APPROVED

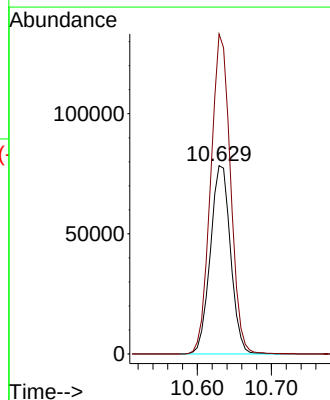
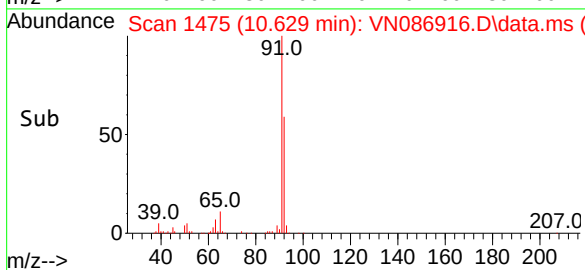
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

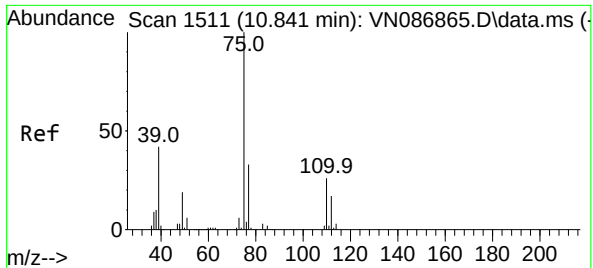


#52
Toluene
Concen: 18.967 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30



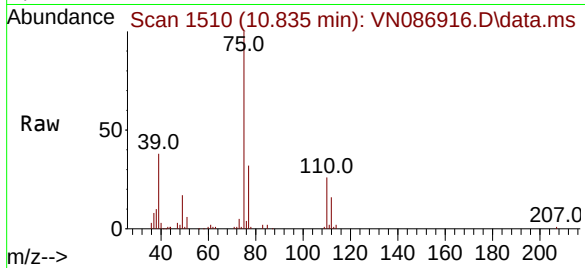
Tgt Ion: 92 Resp: 148340
Ion Ratio Lower Upper
92 100
91 166.8 136.5 204.7





#53
t-1,3-Dichloropropene
Concen: 19.555 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

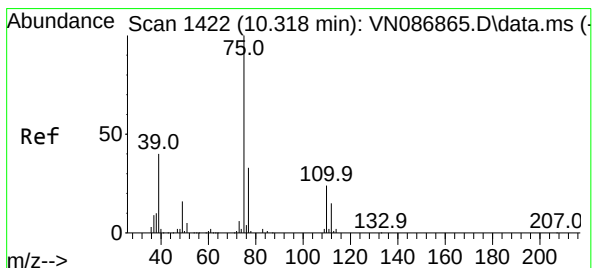
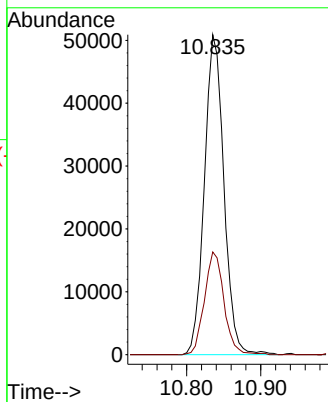
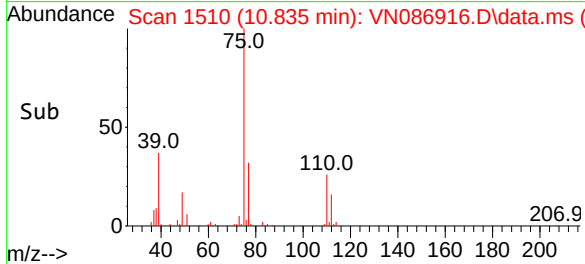
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01



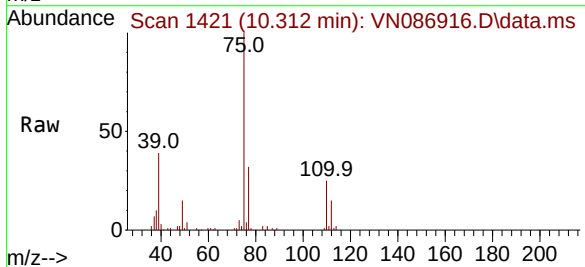
Tgt Ion: 75 Resp: 93038
Ion Ratio Lower Upper
75 100
77 32.1 26.4 39.6

Manual Integrations
APPROVED

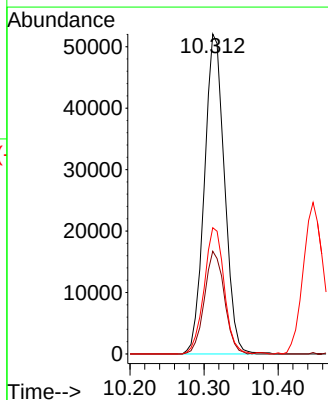
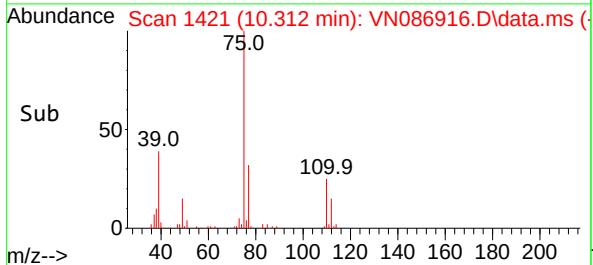
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

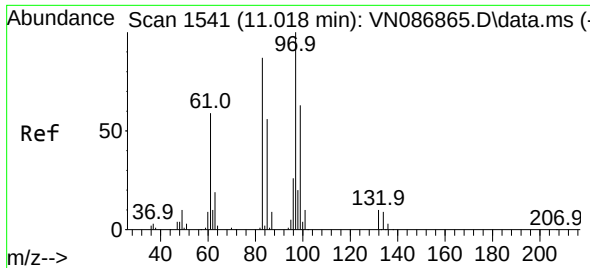


#54
cis-1,3-Dichloropropene
Concen: 19.264 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30



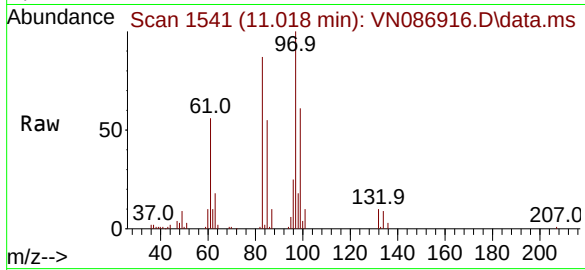
Tgt Ion: 75 Resp: 98066
Ion Ratio Lower Upper
75 100
77 32.1 26.2 39.4
39 39.4 32.3 48.5





#55
1,1,2-Trichloroethane
Concen: 19.483 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

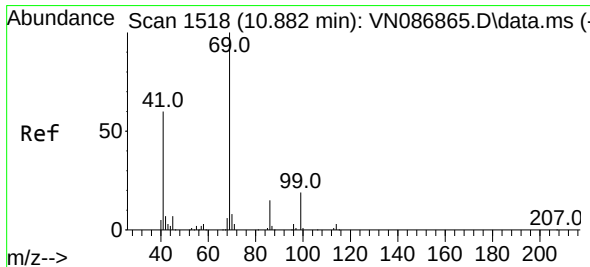
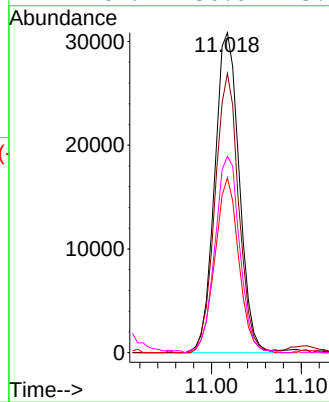
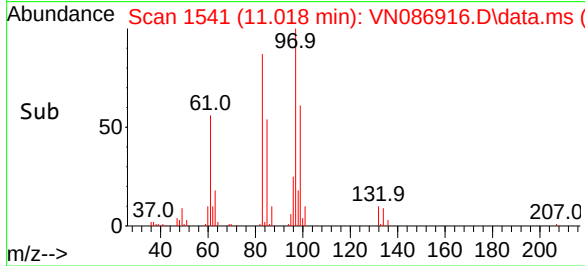
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01



Tgt Ion: 97 Resp: 58629
Ion Ratio Lower Upper
97 100
83 87.3 69.7 104.5
85 54.6 45.1 67.7
99 61.4 50.6 75.8

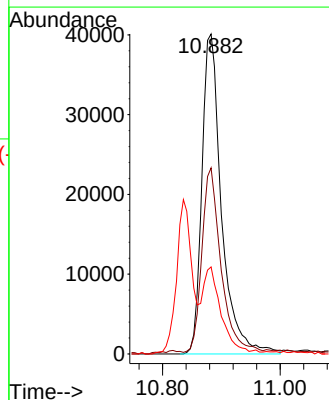
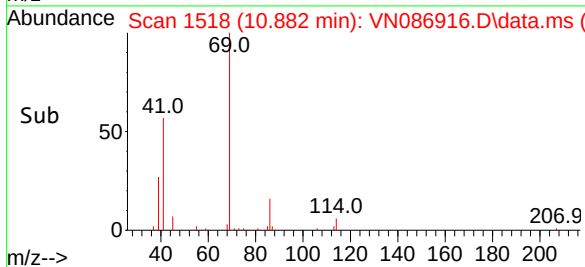
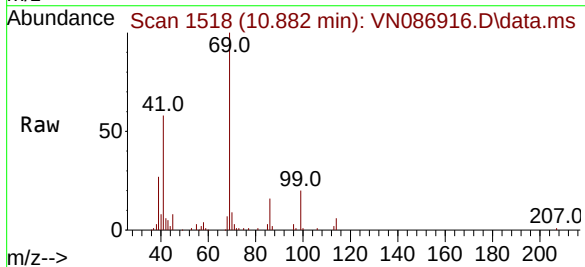
Manual Integrations
APPROVED

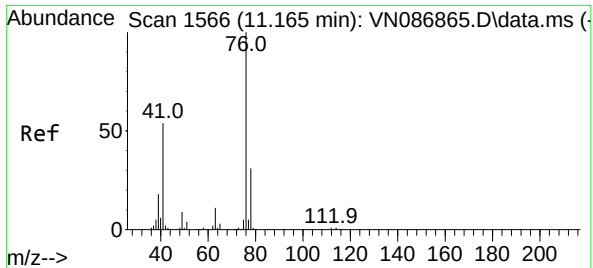
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#56
Ethyl methacrylate
Concen: 19.460 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion: 69 Resp: 93272
Ion Ratio Lower Upper
69 100
41 56.3 47.2 70.8
39 25.5 23.0 34.6





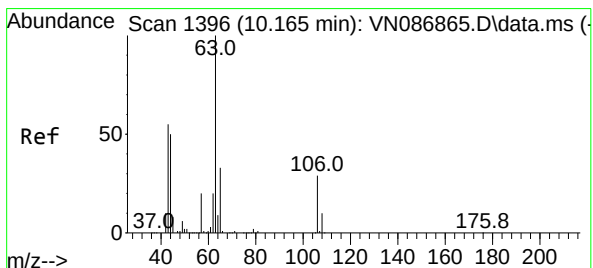
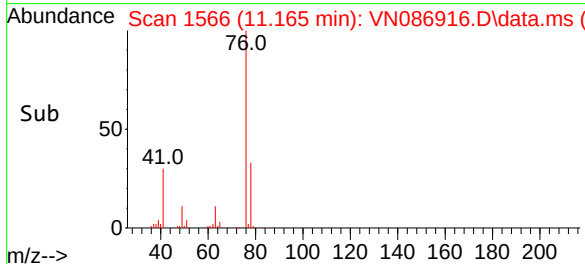
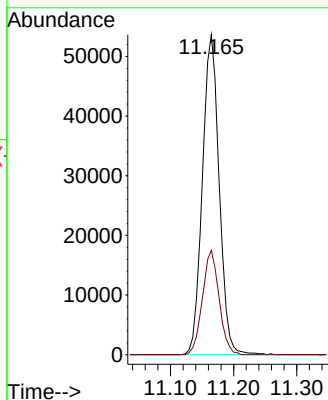
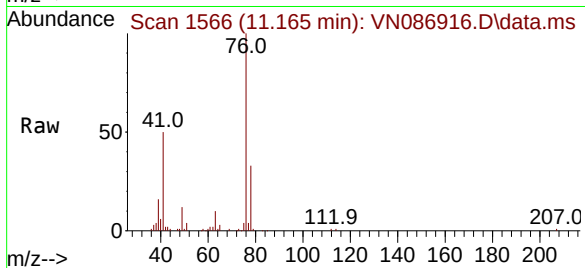
#57
1,3-Dichloropropane
Concen: 18.990 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion: 76 Resp: 99132
Ion Ratio Lower Upper
76 100
78 32.3 25.3 37.9

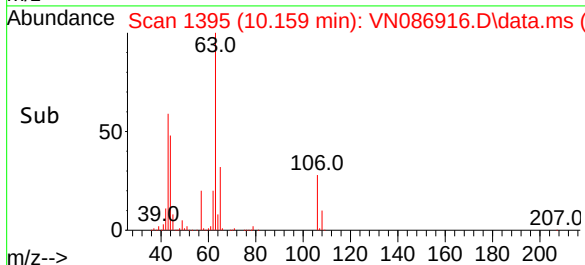
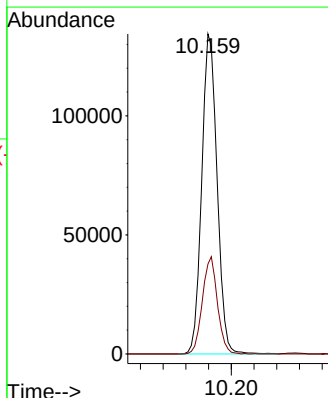
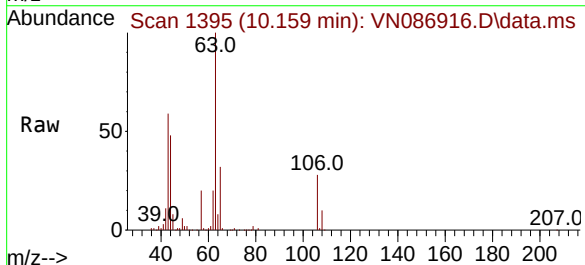
Manual Integrations
APPROVED

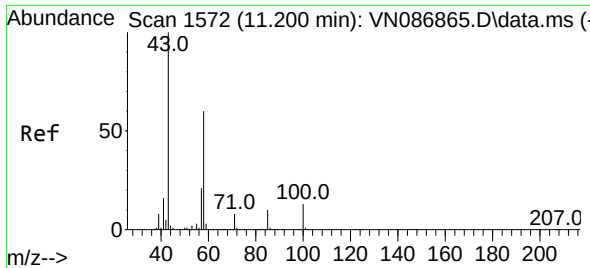
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#58
2-Chloroethyl Vinyl ether
Concen: 87.967 ug/l
RT: 10.159 min Scan# 1395
Delta R.T. -0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion: 63 Resp: 251485
Ion Ratio Lower Upper
63 100
106 29.7 23.0 34.6





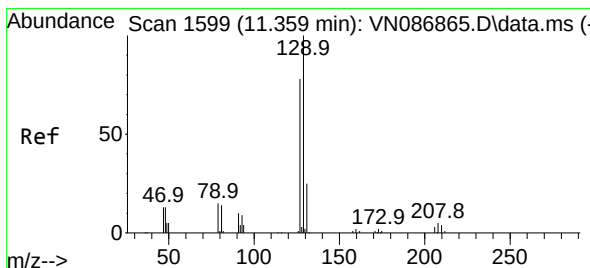
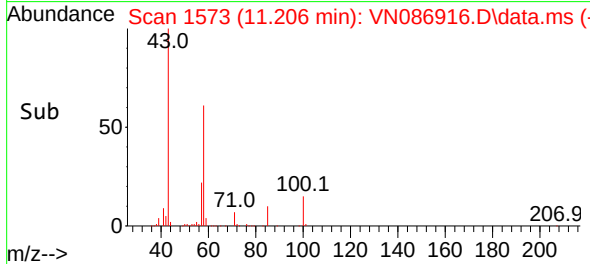
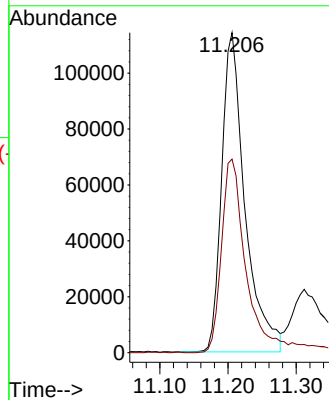
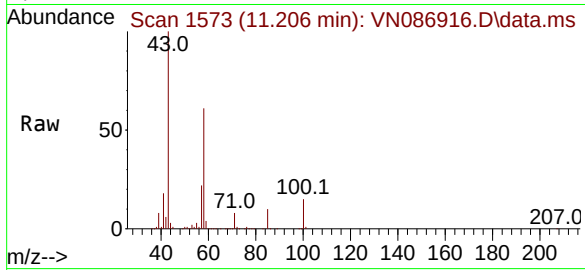
#59
2-Hexanone
Concen: 87.405 ug/l
RT: 11.206 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion: 43 Resp: 27101
Ion Ratio Lower Upper
43 100
58 67.8 30.4 91.3

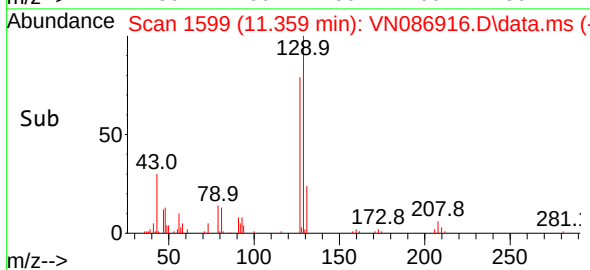
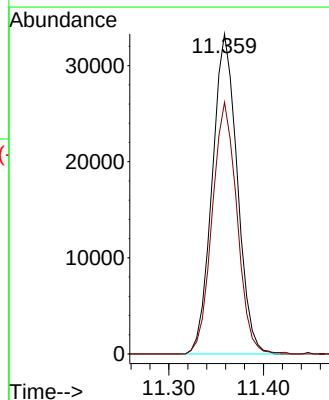
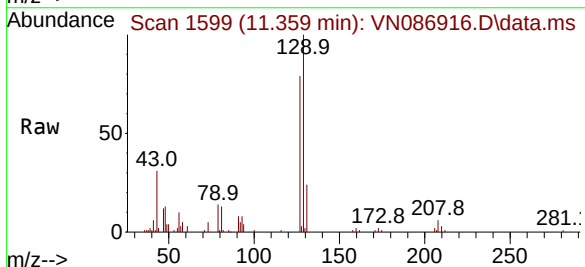
Manual Integrations
APPROVED

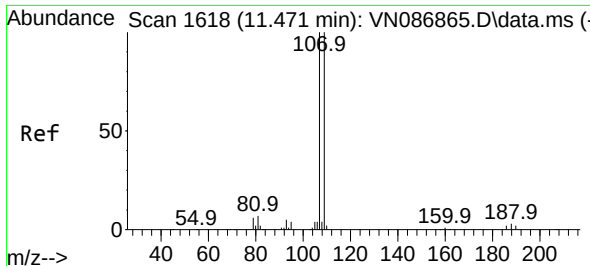
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#60
Dibromochloromethane
Concen: 19.481 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

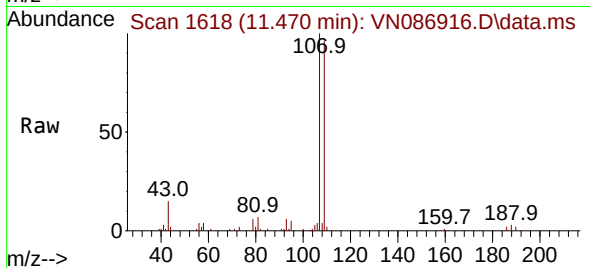
Tgt Ion:129 Resp: 61081
Ion Ratio Lower Upper
129 100
127 77.9 38.6 115.8





#61
1,2-Dibromoethane
Concen: 18.916 ug/l
RT: 11.470 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

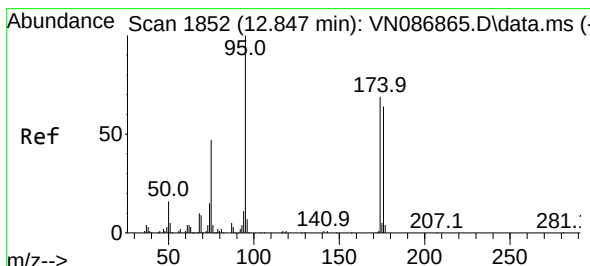
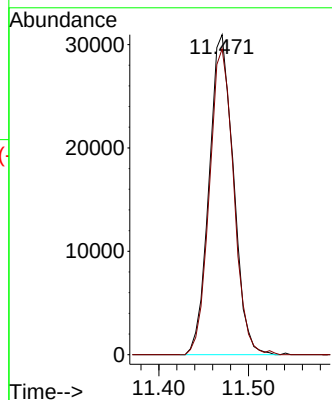
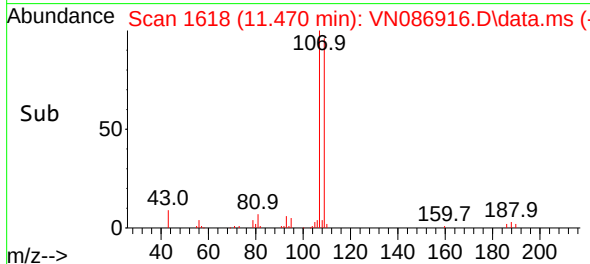
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01



Tgt Ion:107 Resp: 5834
Ion Ratio Lower Upper
107 100
109 95.3 76.3 114.5

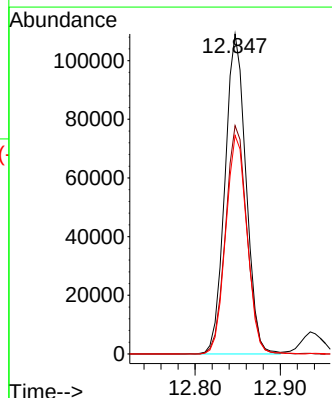
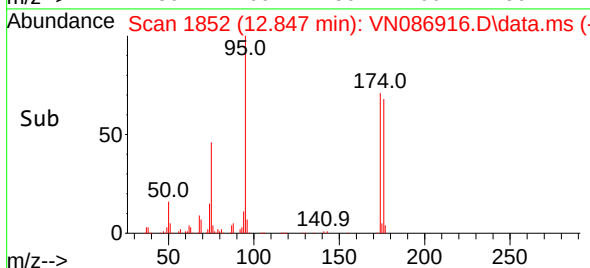
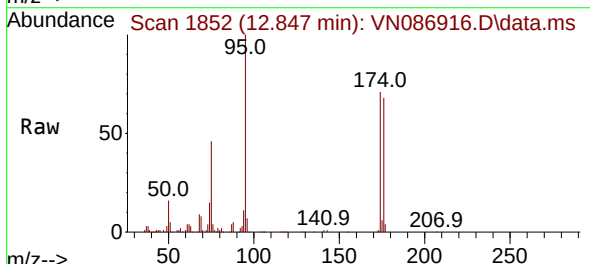
Manual Integrations
APPROVED

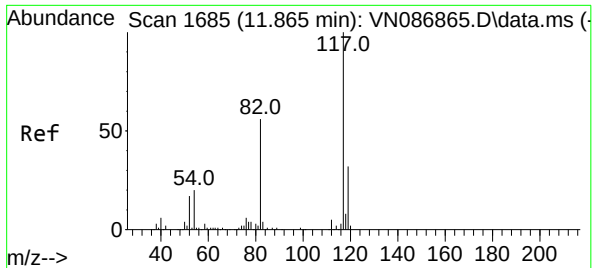
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#62
4-Bromofluorobenzene
Concen: 48.327 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

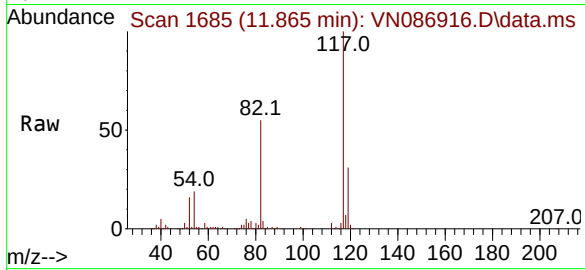
Tgt Ion: 95 Resp: 186676
Ion Ratio Lower Upper
95 100
174 72.7 0.0 141.8
176 69.2 0.0 132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

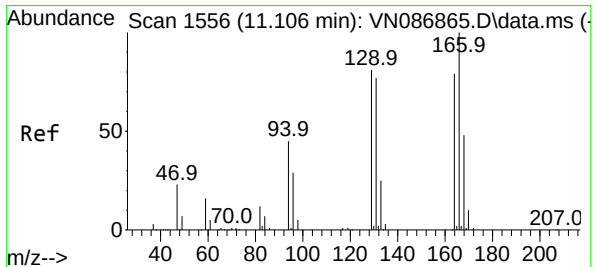
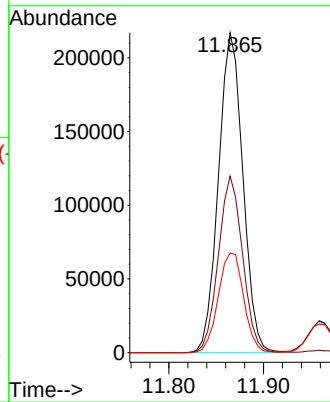
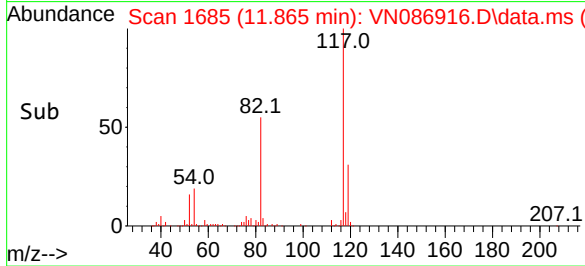
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01



Tgt Ion:117 Resp: 38929
Ion Ratio Lower Upper
117 100
82 55.2 44.6 67.0
119 31.1 25.5 38.3

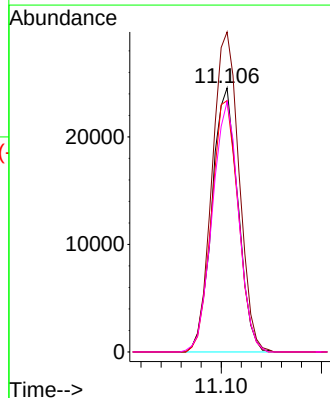
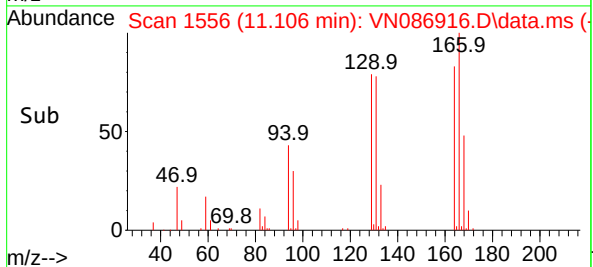
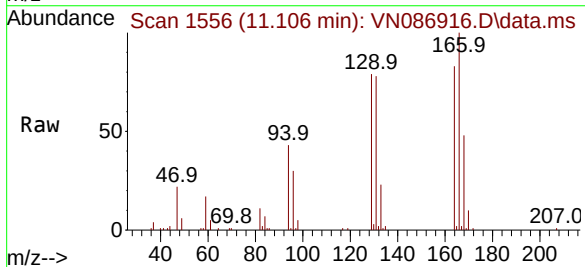
Manual Integrations
APPROVED

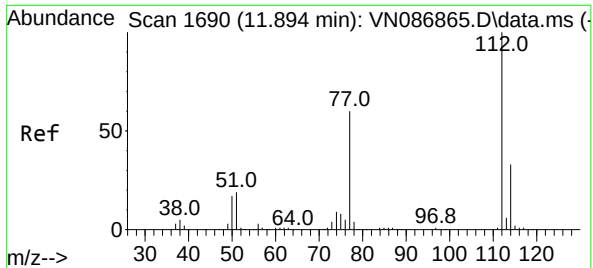
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#64
Tetrachloroethene
Concen: 17.920 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

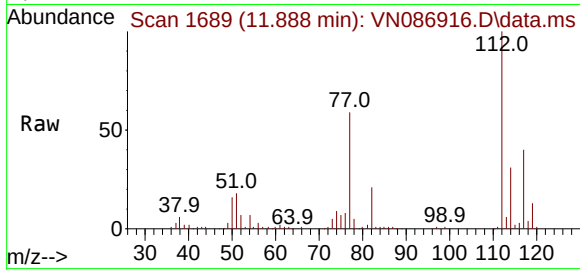
Tgt Ion:164 Resp: 44151
Ion Ratio Lower Upper
164 100
166 121.2 101.8 152.8
129 95.2 83.0 124.4
131 94.8 78.2 117.2





#65
Chlorobenzene
Concen: 18.874 ug/l
RT: 11.888 min Scan# 1689
Delta R.T. -0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

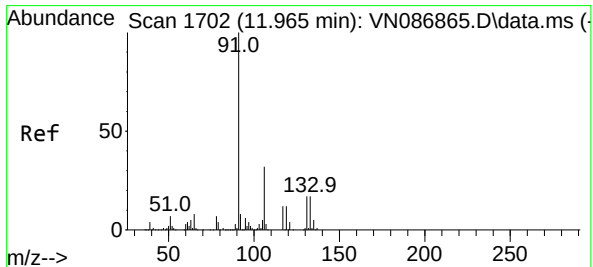
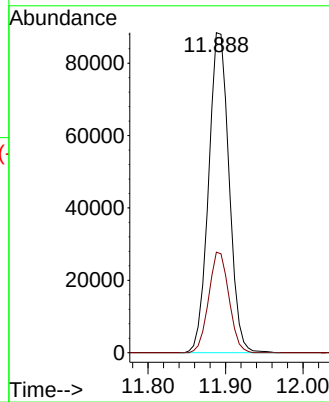
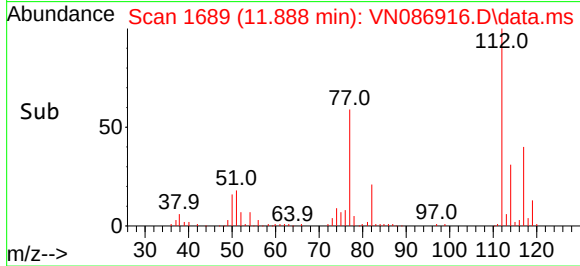
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01



Tgt Ion:112 Resp: 16205
Ion Ratio Lower Upper
112 100
114 31.4 26.2 39.2

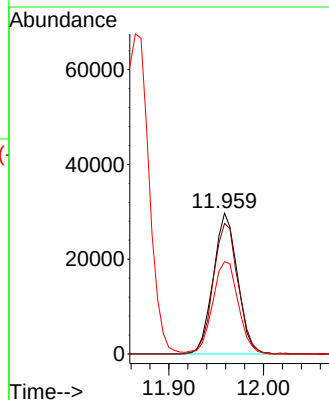
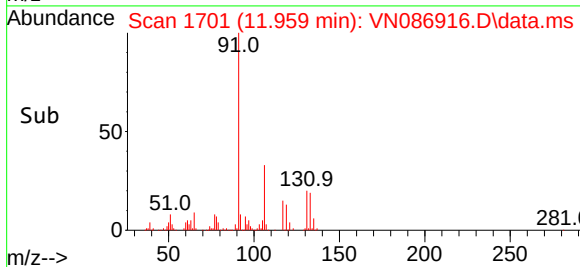
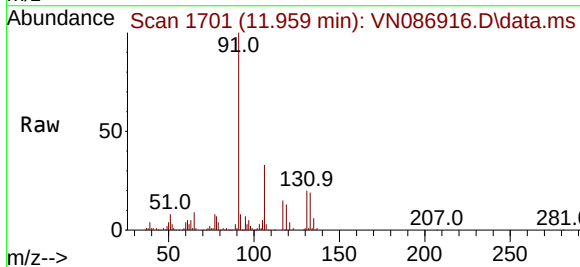
Manual Integrations
APPROVED

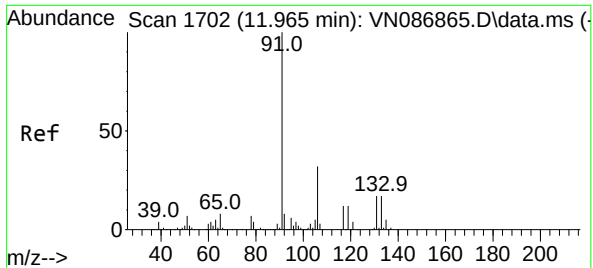
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 19.118 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion:131 Resp: 52766
Ion Ratio Lower Upper
131 100
133 96.0 48.3 144.8
119 69.7 34.0 101.8





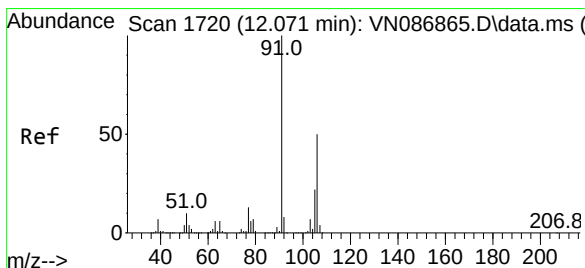
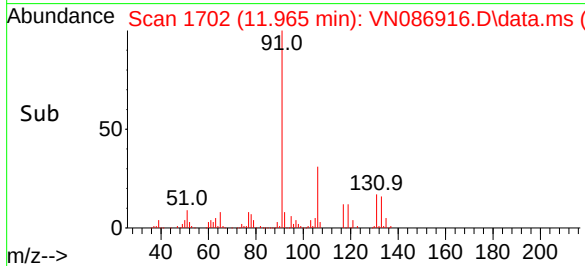
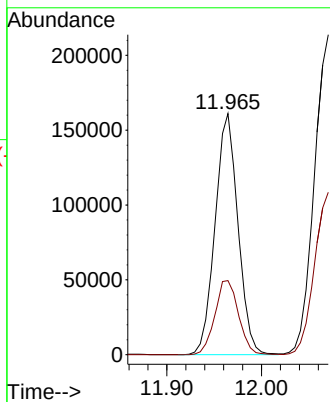
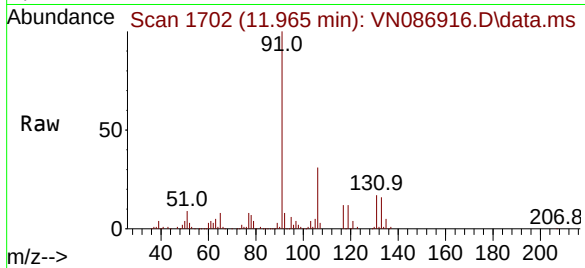
#67
Ethyl Benzene
Concen: 18.284 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion: 91 Resp: 270410
Ion Ratio Lower Upper
91 100
106 30.7 25.4 38.2

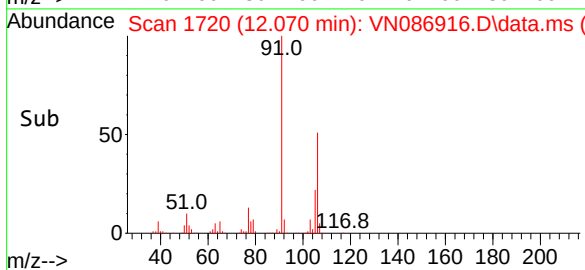
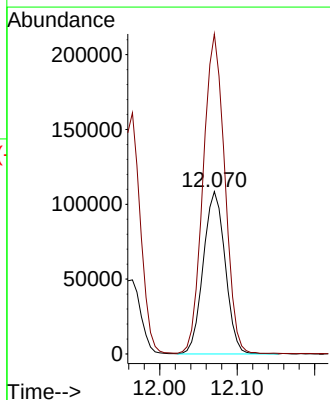
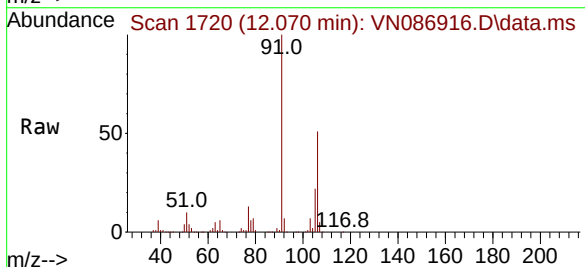
Manual Integrations
APPROVED

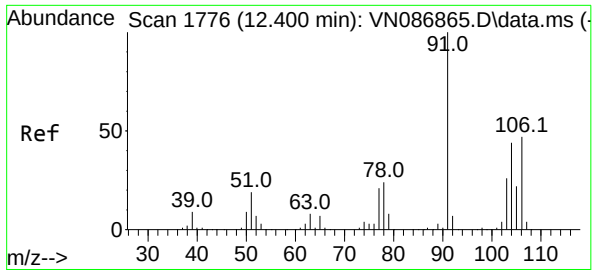
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#68
m/p-Xylenes
Concen: 37.696 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion:106 Resp: 213409
Ion Ratio Lower Upper
106 100
91 193.9 159.4 239.0





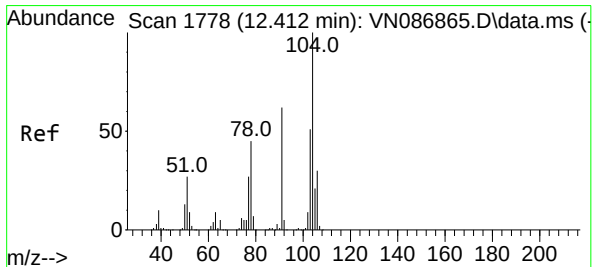
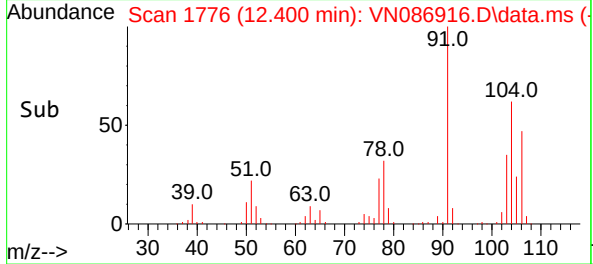
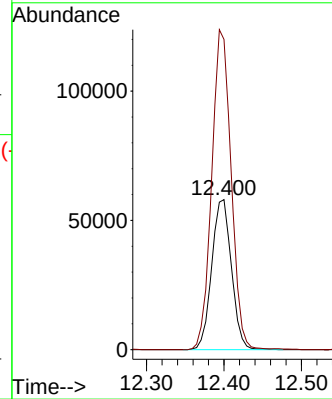
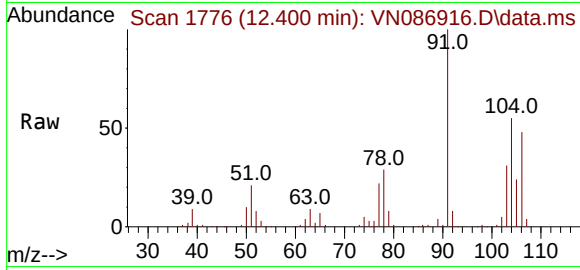
#69
o-Xylene
Concen: 18.922 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion:106 Resp: 10259
Ion Ratio Lower Upper
106 100
91 209.7 106.1 318.1

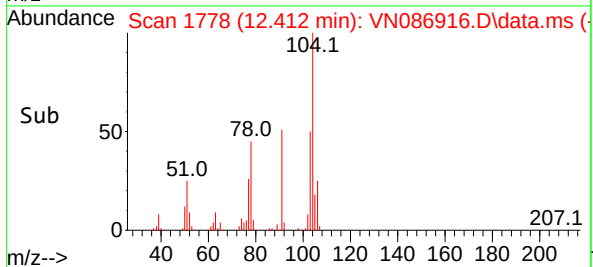
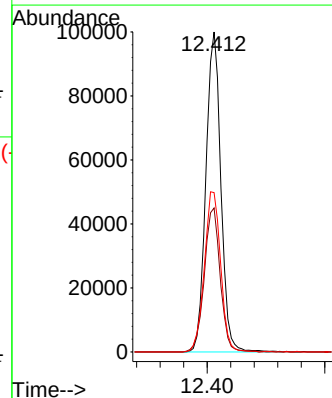
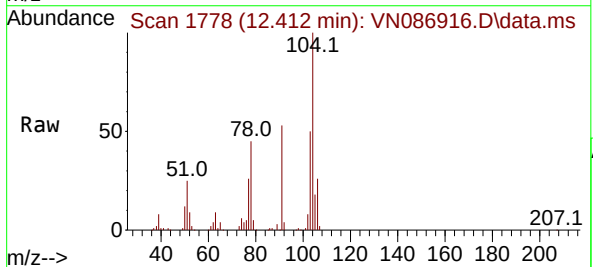
Manual Integrations
APPROVED

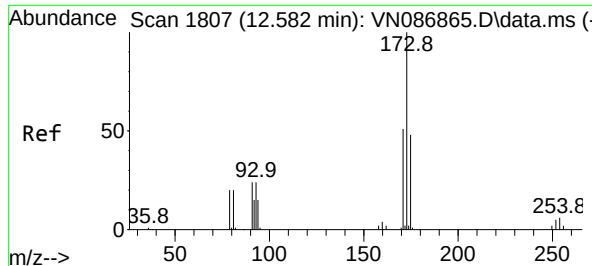
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#70
Styrene
Concen: 19.008 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion:104 Resp: 176358
Ion Ratio Lower Upper
104 100
78 48.0 38.5 57.7
103 54.6 43.1 64.7





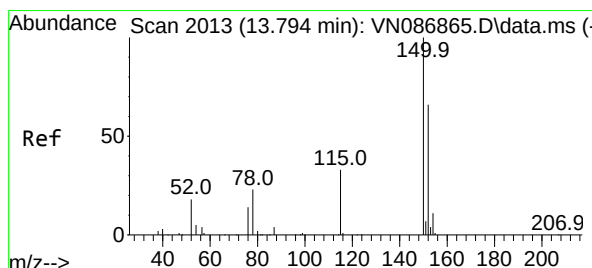
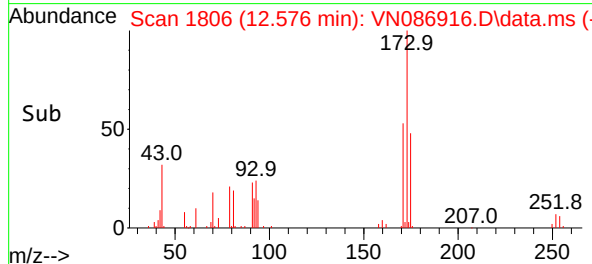
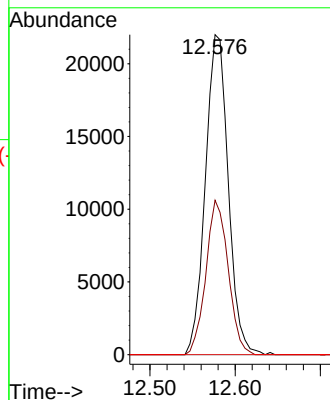
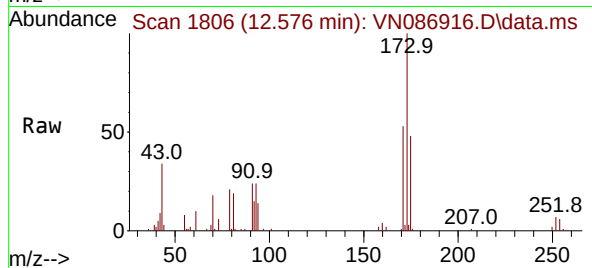
#71
Bromoform
Concen: 20.077 ug/l
RT: 12.576 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion:173 Resp: 41058
Ion Ratio Lower Upper
173 100
175 47.0 24.1 72.4
254 0.0 0.0 0.0

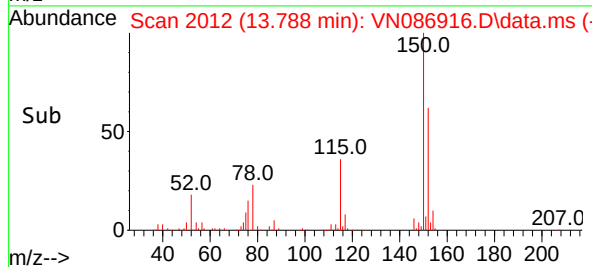
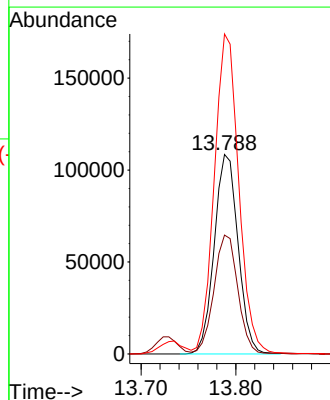
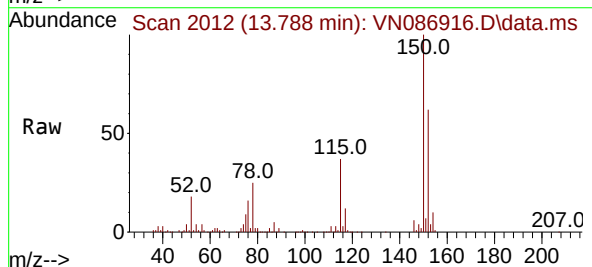
Manual Integrations
APPROVED

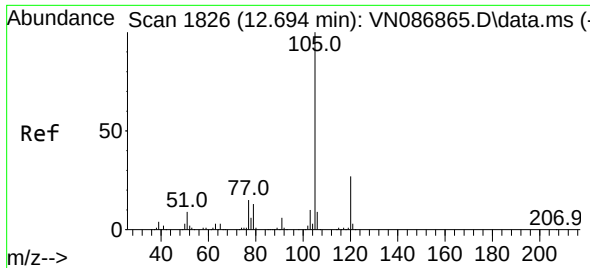
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion:152 Resp: 189620
Ion Ratio Lower Upper
152 100
115 59.9 30.1 90.5
150 164.9 0.0 345.0





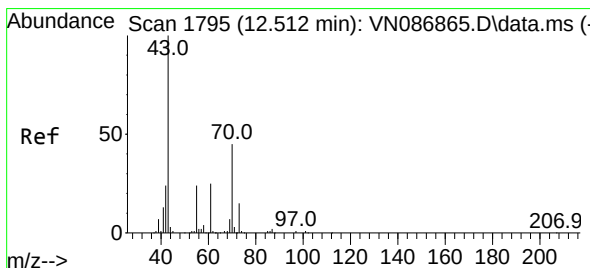
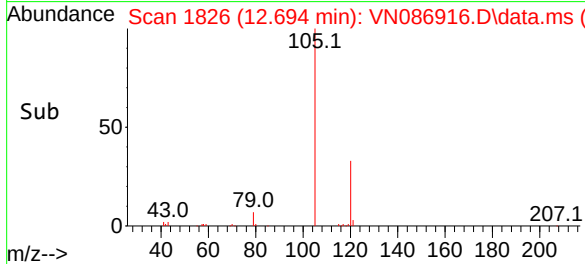
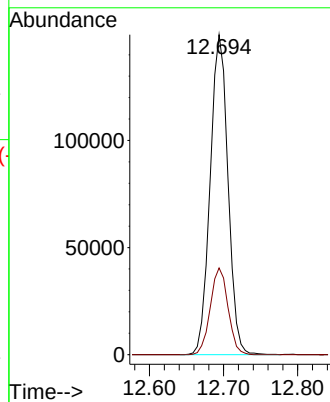
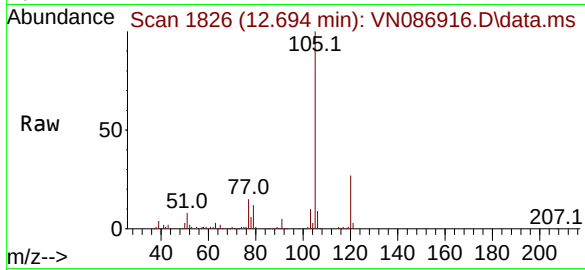
#73
Isopropylbenzene
Concen: 18.055 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion:105 Resp: 24941
Ion Ratio Lower Upper
105 100
120 26.9 13.5 40.4

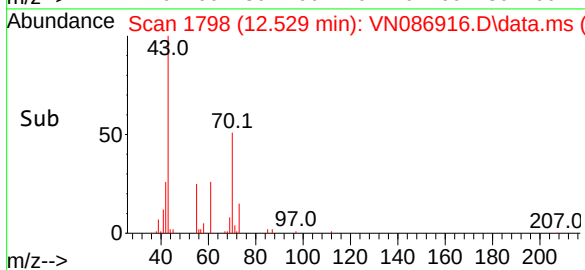
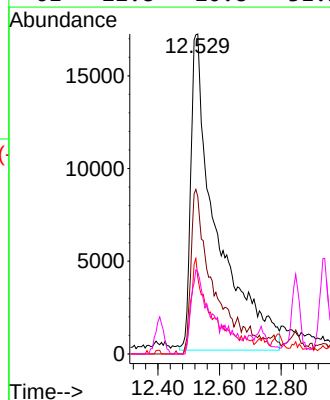
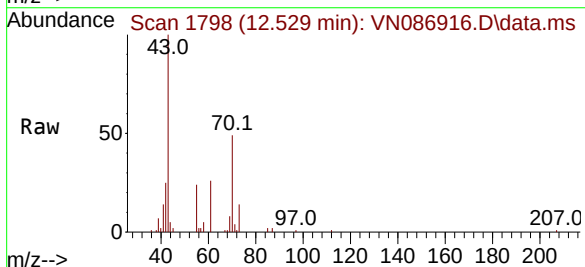
Manual Integrations
APPROVED

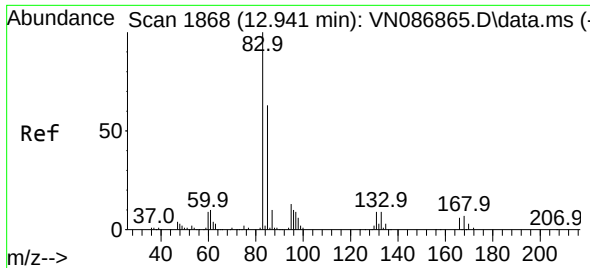
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#74
N-ethyl acetate
Concen: 20.433 ug/l m
RT: 12.529 min Scan# 1798
Delta R.T. 0.017 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion: 43 Resp: 98634
Ion Ratio Lower Upper
43 100
70 40.2 37.6 56.4
55 18.8 19.0 28.6#
61 22.8 20.8 31.2





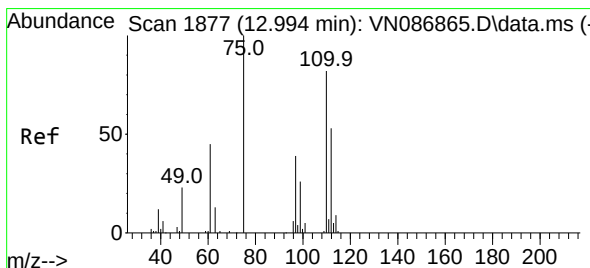
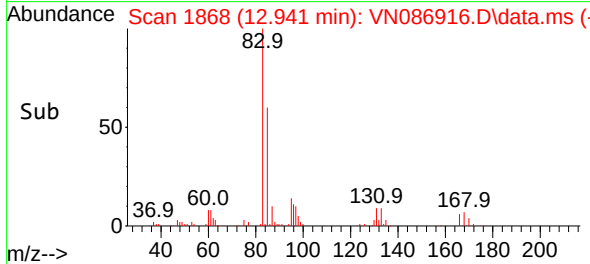
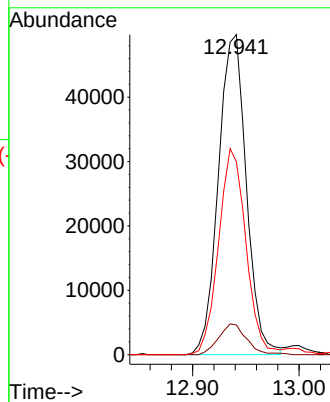
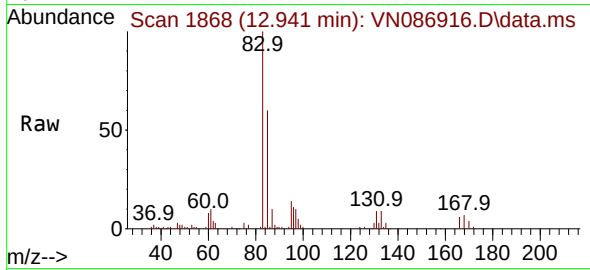
#75
1,1,2,2-Tetrachloroethane
Concen: 19.372 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion:	83	Resp:	9065
Ion Ratio	Lower	Upper	
83	100		
131	9.6	4.9	14.7
85	63.0	32.0	96.0

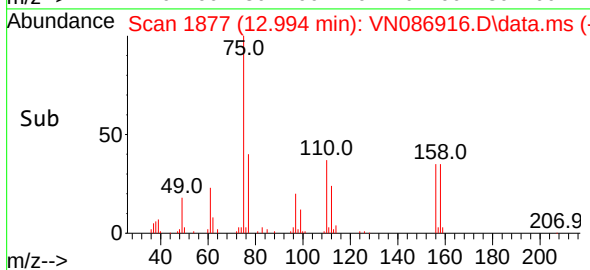
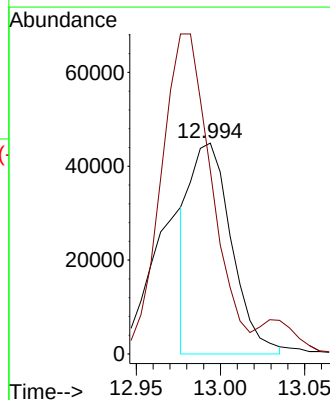
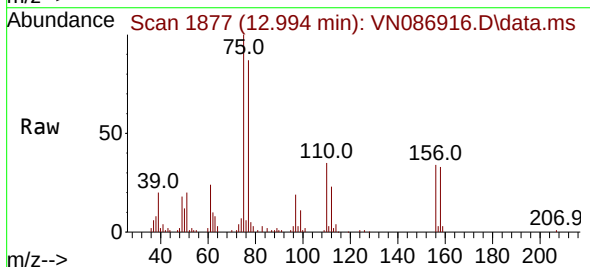
Manual Integrations
APPROVED

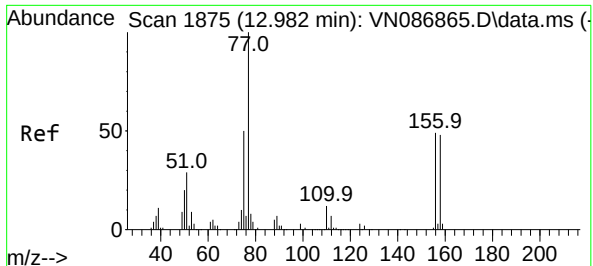
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#76
1,2,3-Trichloropropane
Concen: 17.105 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion:	75	Resp:	77098
Ion Ratio	Lower	Upper	
75	100		
77	185.1	79.3	237.9





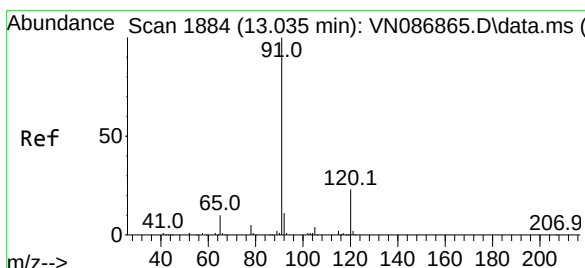
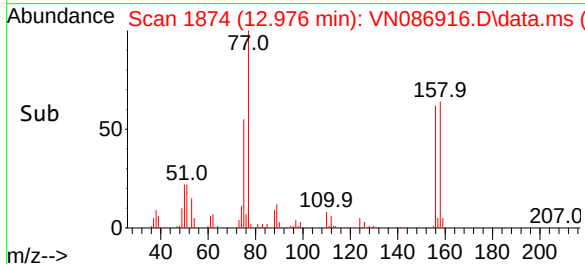
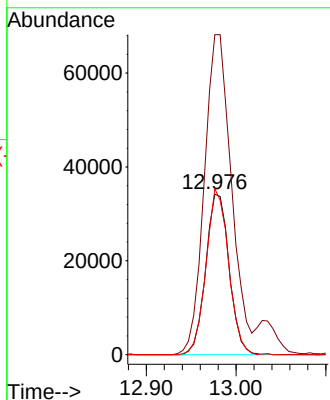
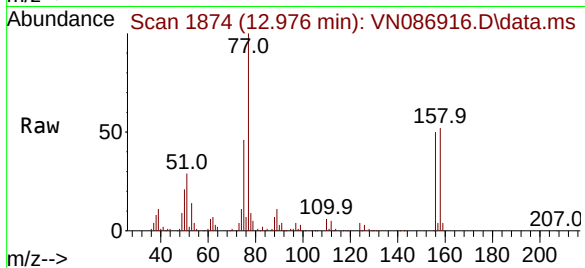
#77
Bromobenzene
Concen: 19.557 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion:156 Resp: 61950
Ion Ratio Lower Upper
156 100
77 230.3 117.7 353.1
158 99.6 48.1 144.4

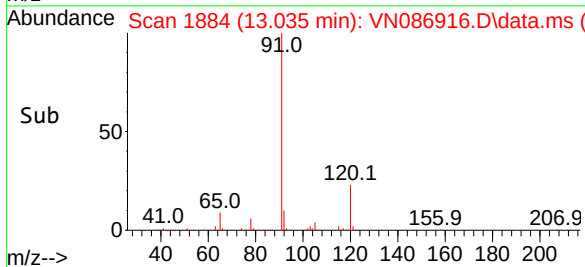
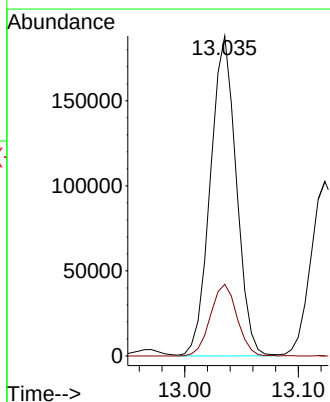
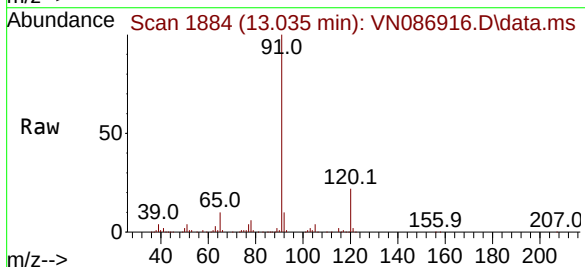
Manual Integrations
APPROVED

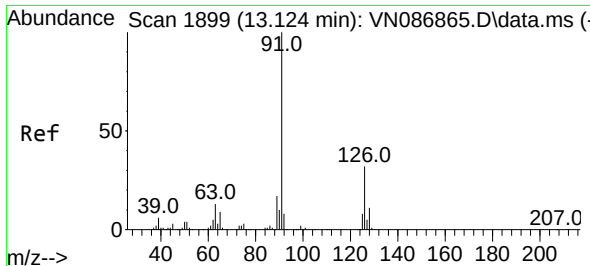
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#78
n-propylbenzene
Concen: 17.805 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion: 91 Resp: 298896
Ion Ratio Lower Upper
91 100
120 22.9 11.4 34.2





#79

2-Chlorotoluene

Concen: 18.226 ug/l

RT: 13.123 min Scan# 1899

Delta R.T. -0.000 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0610WBS01

Tgt Ion: 91 Resp: 18349

Ion Ratio Lower Upper

91 100

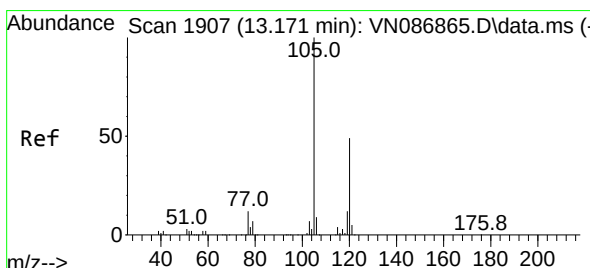
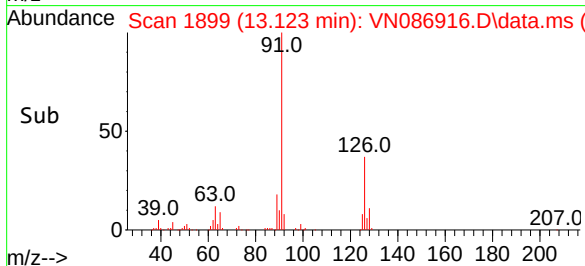
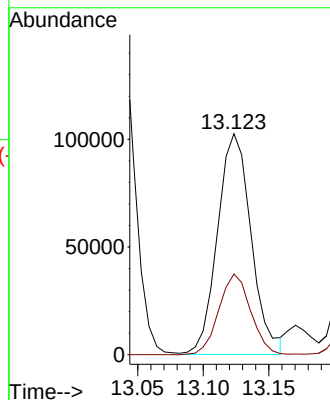
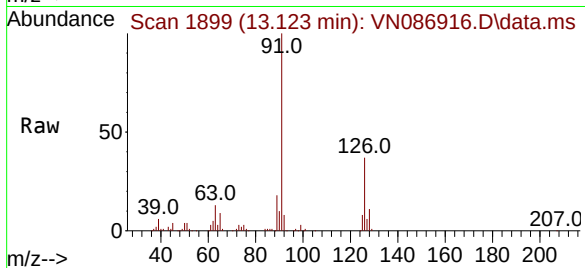
126 34.4 16.2 48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#80

1,3,5-Trimethylbenzene

Concen: 17.705 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086916.D

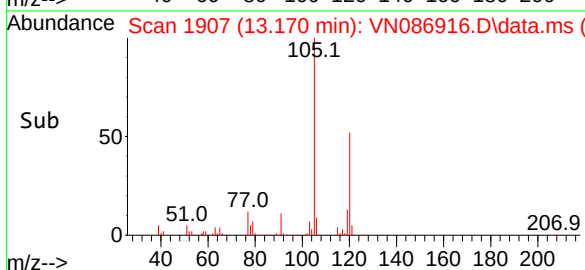
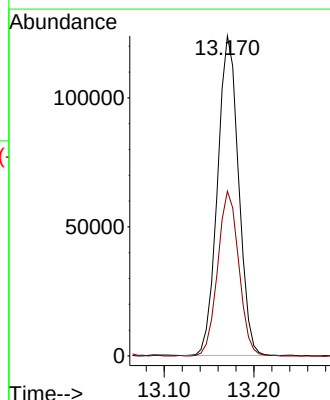
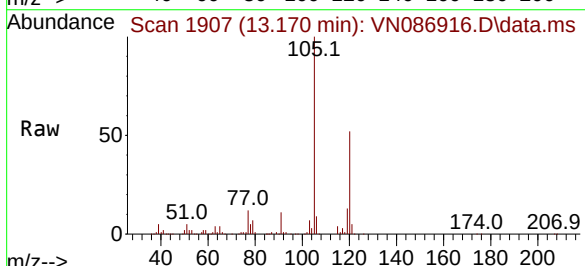
Acq: 10 Jun 2025 10:30

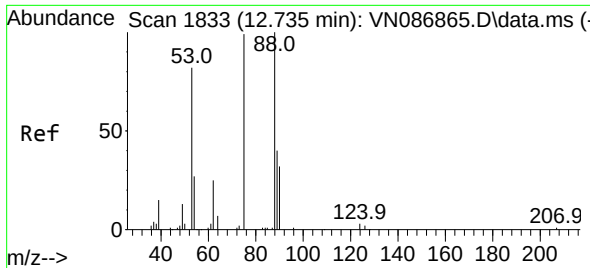
Tgt Ion:105 Resp: 201924

Ion Ratio Lower Upper

105 100

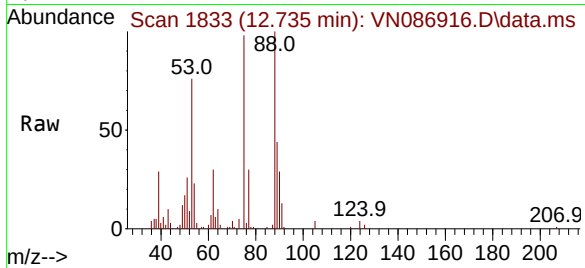
120 51.6 24.9 74.6





#81
trans-1,4-Dichloro-2-butene
Concen: 19.992 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

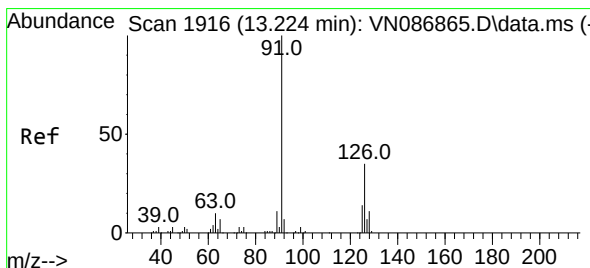
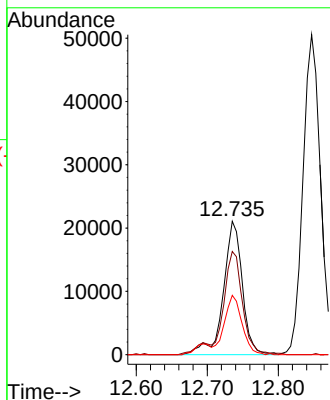
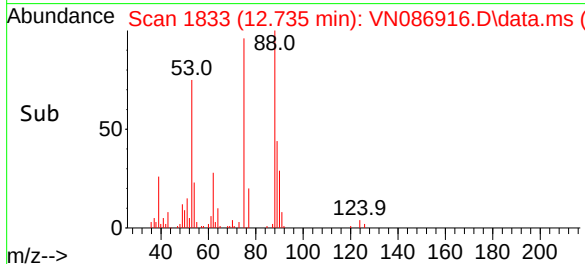
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01



Tgt Ion: 75 Resp: 3914
Ion Ratio Lower Upper
75 100
53 74.1 66.6 99.8
89 41.5 36.7 55.1

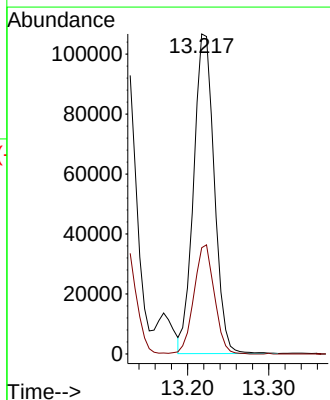
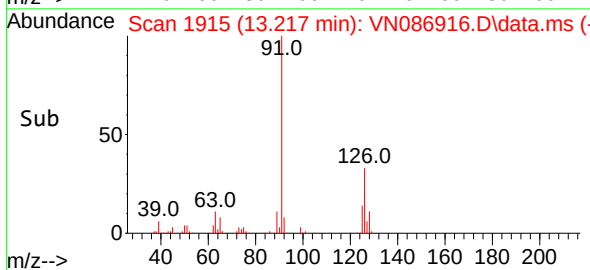
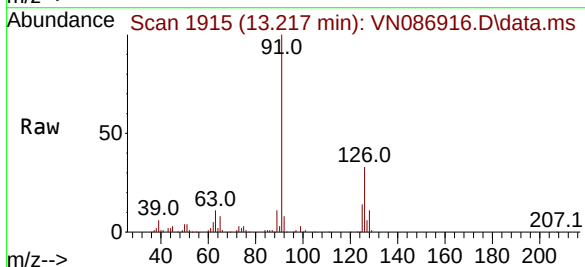
Manual Integrations
APPROVED

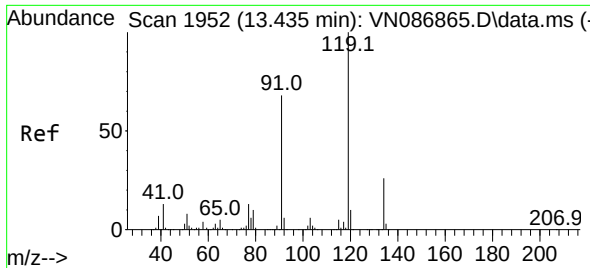
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#82
4-Chlorotoluene
Concen: 18.476 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

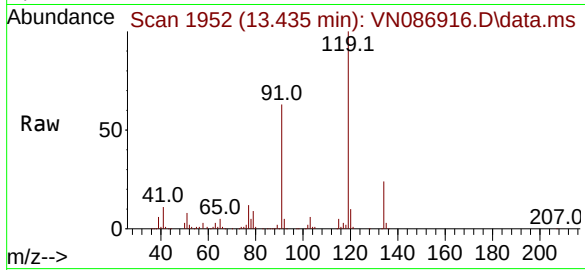
Tgt Ion: 91 Resp: 188207
Ion Ratio Lower Upper
91 100
126 33.9 16.7 50.1





#83
tert-Butylbenzene
Concen: 17.859 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

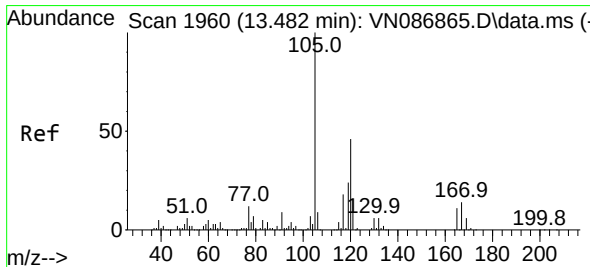
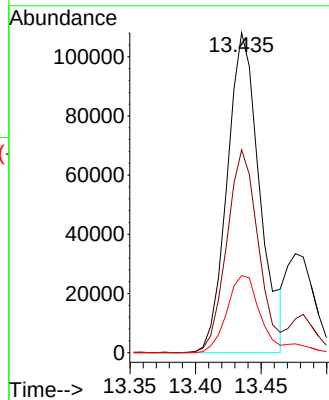
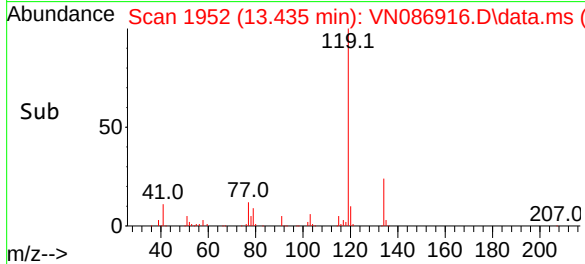
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01



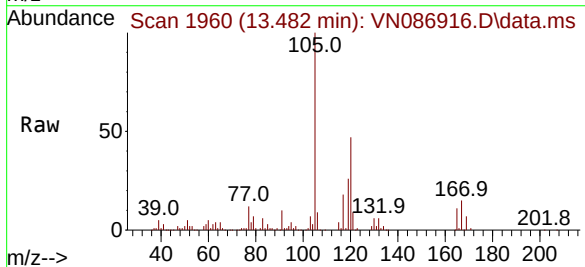
Tgt Ion:119 Resp: 186449
Ion Ratio Lower Upper
119 100
91 61.7 32.1 96.5
134 26.2 13.4 40.1

Manual Integrations
APPROVED

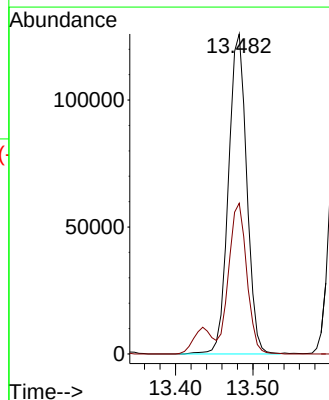
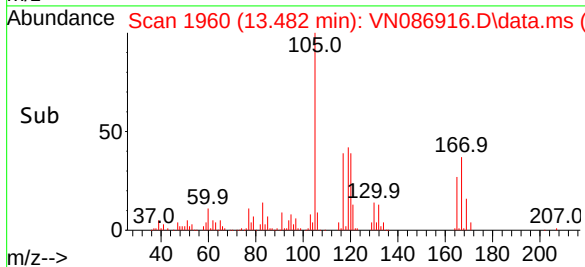
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

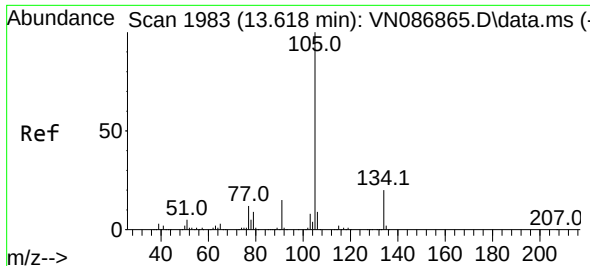


#84
1,2,4-Trimethylbenzene
Concen: 18.071 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30



Tgt Ion:105 Resp: 206670
Ion Ratio Lower Upper
105 100
120 46.5 23.2 69.6





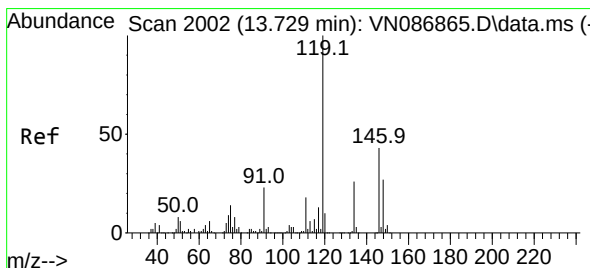
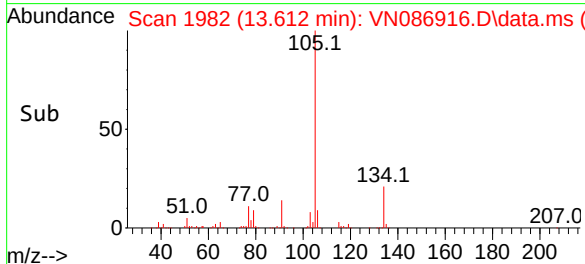
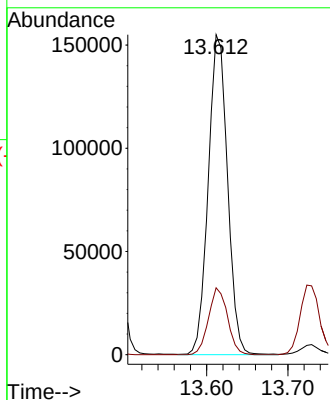
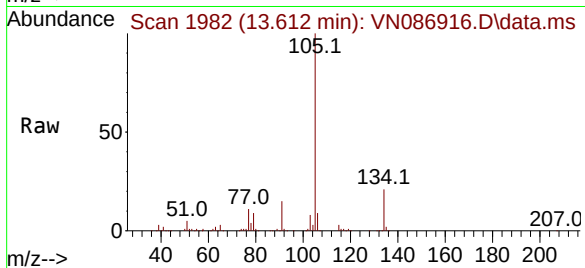
#85
sec-Butylbenzene
Concen: 16.843 ug/l
RT: 13.612 min Scan# 1983
Delta R.T. -0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion:105 Resp: 25536
Ion Ratio Lower Upper
105 100
134 20.5 10.0 30.0

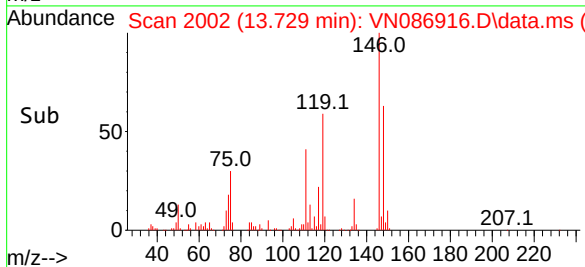
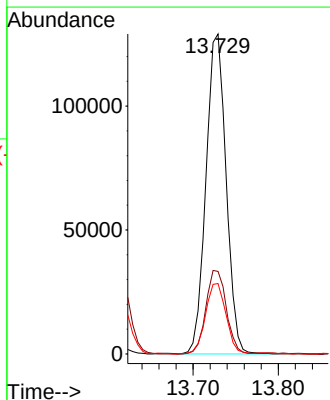
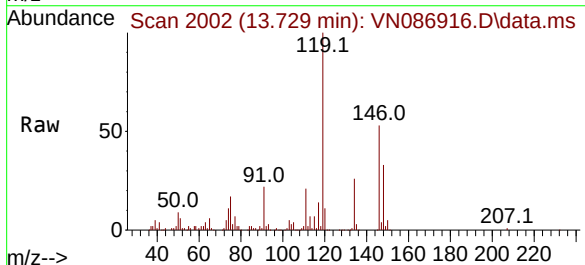
Manual Integrations
APPROVED

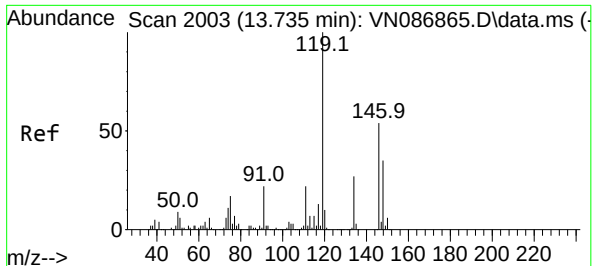
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#86
p-Isopropyltoluene
Concen: 16.927 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Tgt Ion:119 Resp: 212141
Ion Ratio Lower Upper
119 100
134 26.6 13.5 40.4
91 22.5 11.5 34.4





#87

1,3-Dichlorobenzene

Concen: 18.823 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.006 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0610WBS01

Tgt Ion:146 Resp: 11732

Ion Ratio Lower Upper

146 100

111 41.0 20.9 62.8

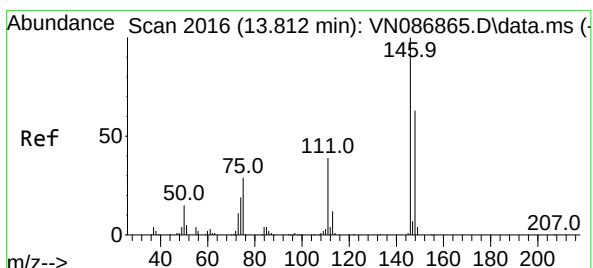
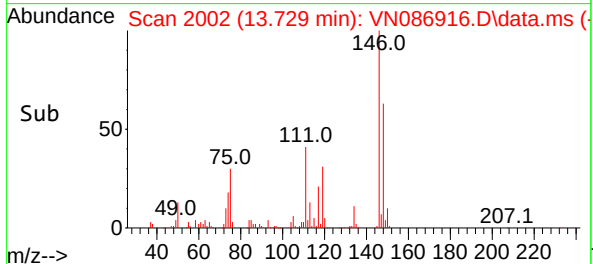
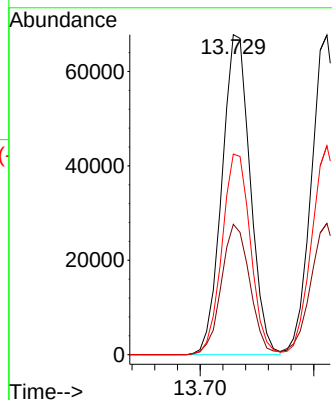
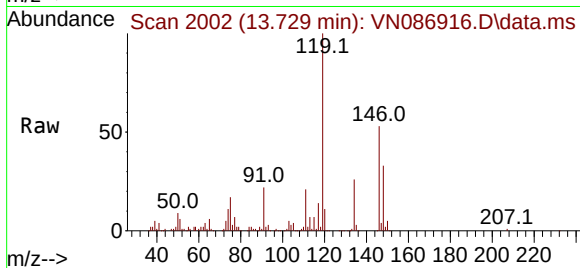
148 63.0 32.0 96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#88

1,4-Dichlorobenzene

Concen: 18.671 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

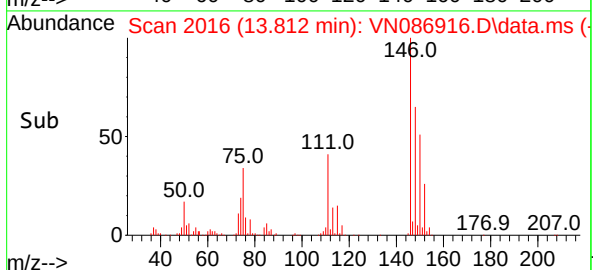
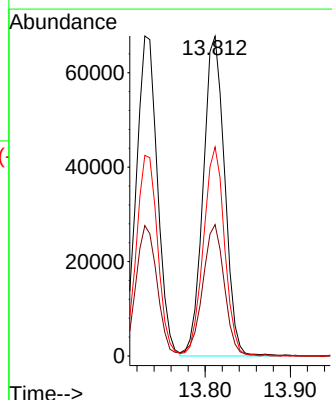
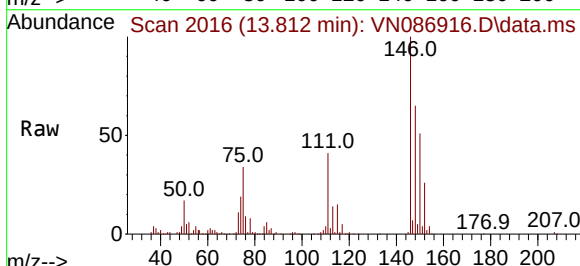
Tgt Ion:146 Resp: 118648

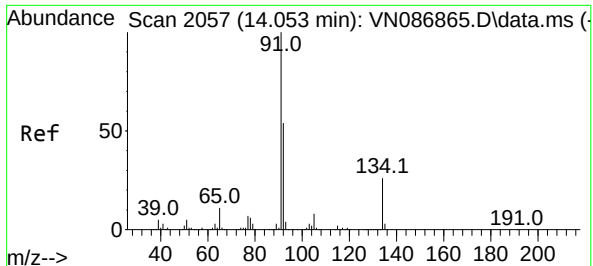
Ion Ratio Lower Upper

146 100

111 40.8 19.9 59.7

148 64.3 31.8 95.4





#89

n-Butylbenzene

Concen: 16.250 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086916.D

Acq: 10 Jun 2025 10:30

Instrument :

MSVOA_N

ClientSampleId :

VN0610WBS01

Tgt Ion: 91 Resp: 19725

Ion Ratio Lower Upper

91 100

92 54.8 27.5 82.4

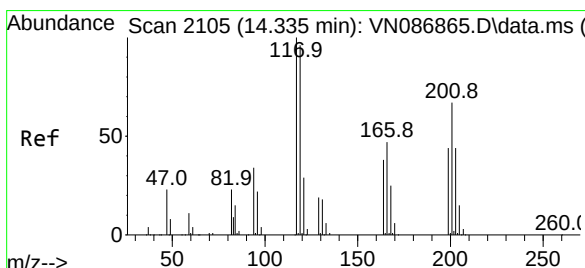
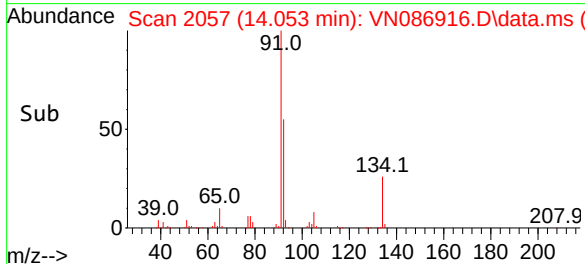
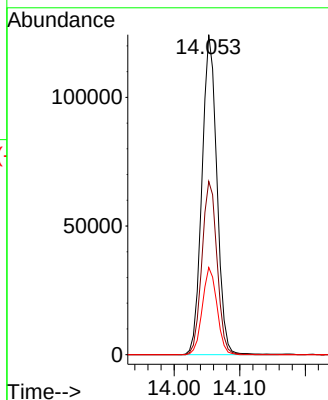
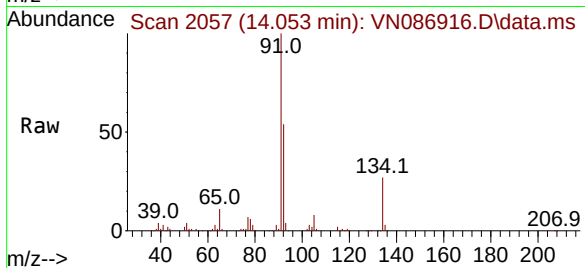
134 26.7 13.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#90

Hexachloroethane

Concen: 17.178 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.006 min

Lab File: VN086916.D

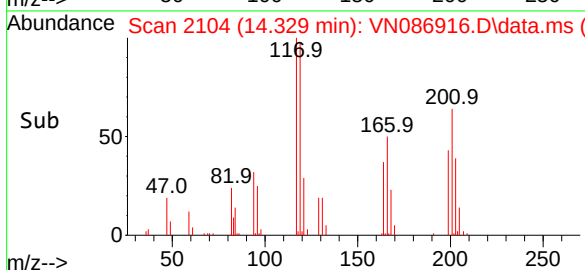
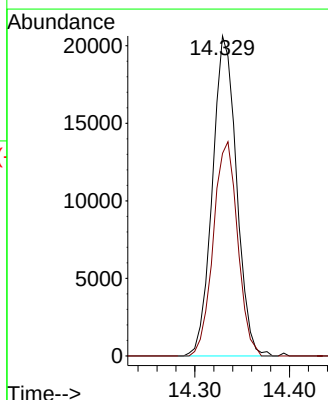
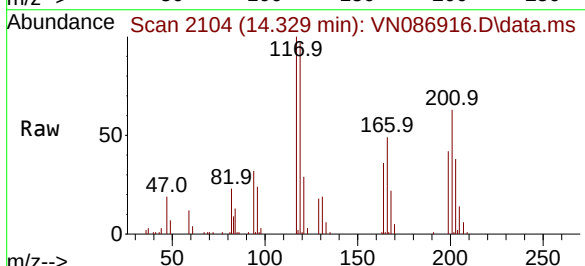
Acq: 10 Jun 2025 10:30

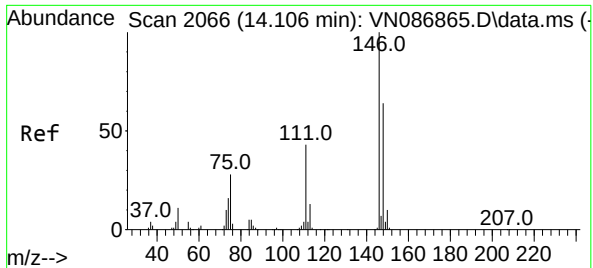
Tgt Ion:117 Resp: 36492

Ion Ratio Lower Upper

117 100

201 67.5 33.2 99.6





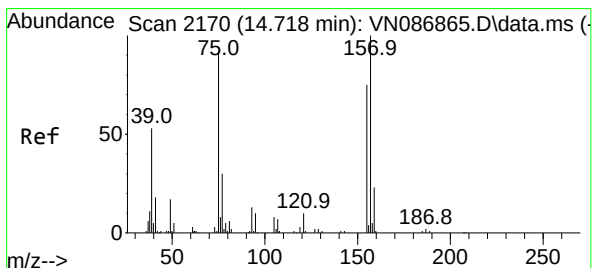
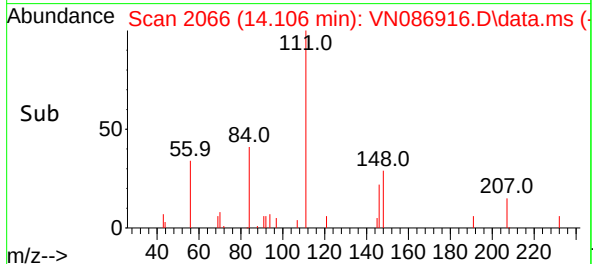
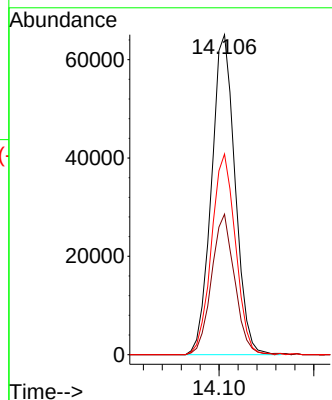
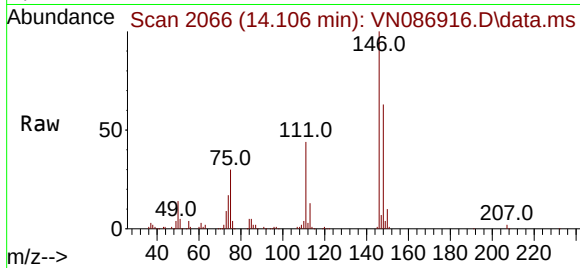
#91
1,2-Dichlorobenzene
Concen: 18.837 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Tgt Ion:146 Resp: 112799
Ion Ratio Lower Upper
146 100
111 42.9 21.6 64.6
148 63.8 31.7 95.1

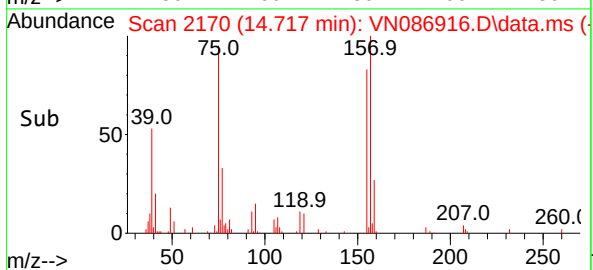
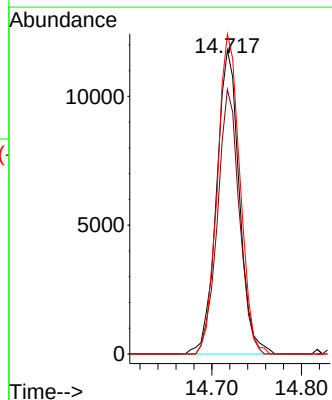
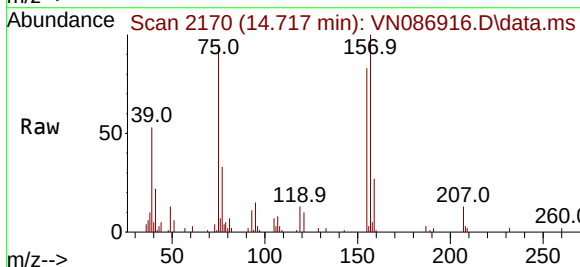
Manual Integrations
APPROVED

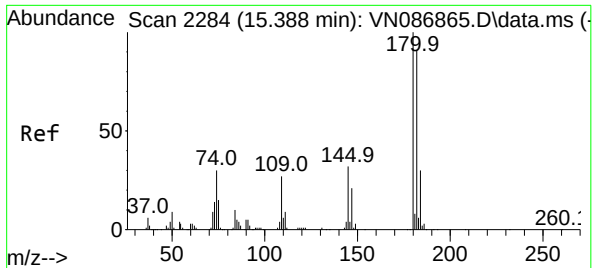
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 18.587 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

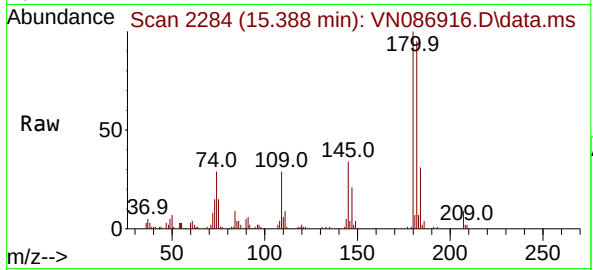
Tgt Ion: 75 Resp: 20803
Ion Ratio Lower Upper
75 100
155 83.1 41.1 123.4
157 104.1 52.7 158.1





#93
1,2,4-Trichlorobenzene
Concen: 16.956 ug/l
RT: 15.388 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

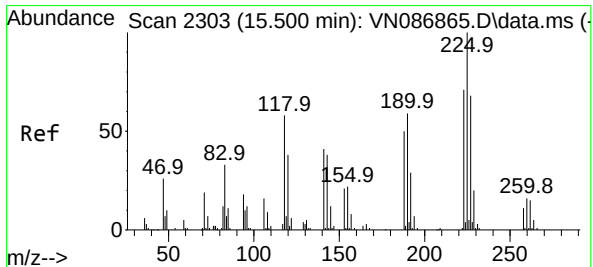
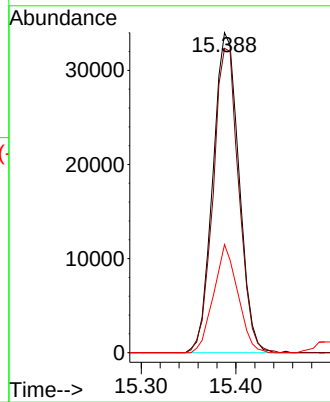
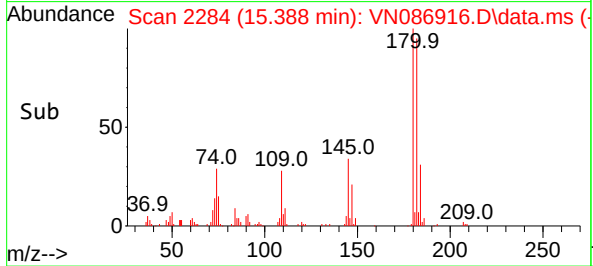
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01



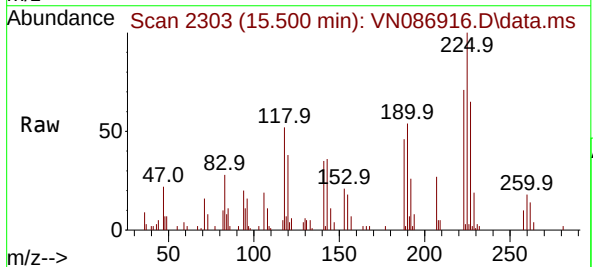
Tgt Ion:180 Resp: 64838
Ion Ratio Lower Upper
180 100
182 93.8 46.9 140.7
145 31.5 16.0 47.9

Manual Integrations
APPROVED

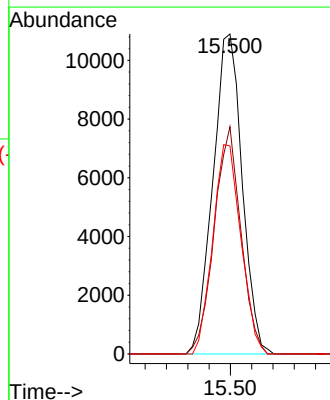
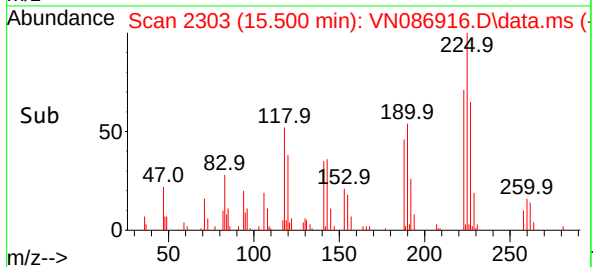
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

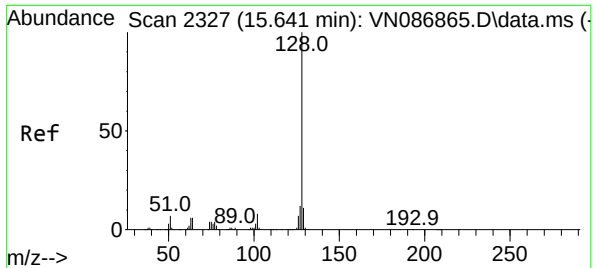


#94
Hexachlorobutadiene
Concen: 14.552 ug/l
RT: 15.500 min Scan# 2303
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30



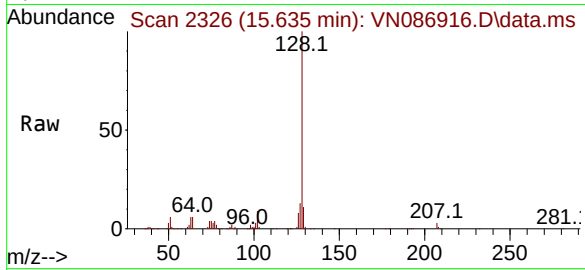
Tgt Ion:225 Resp: 20732
Ion Ratio Lower Upper
225 100
223 64.7 33.5 100.4
227 63.1 31.1 93.5





#95
Naphthalene
Concen: 18.109 ug/l
RT: 15.635 min Scan# 2327
Delta R.T. -0.006 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30

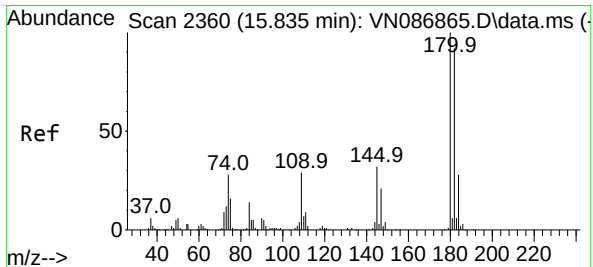
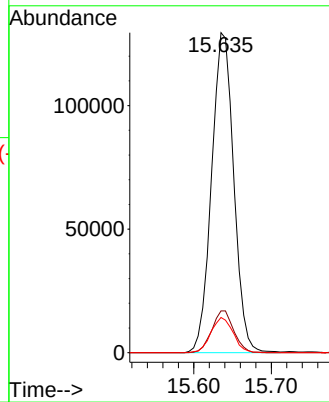
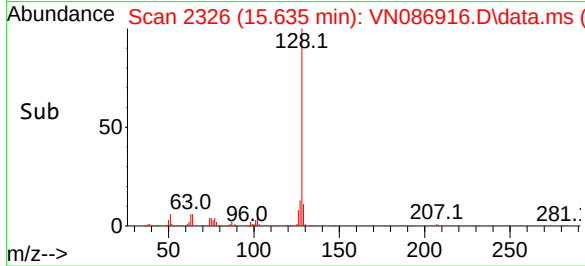
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01



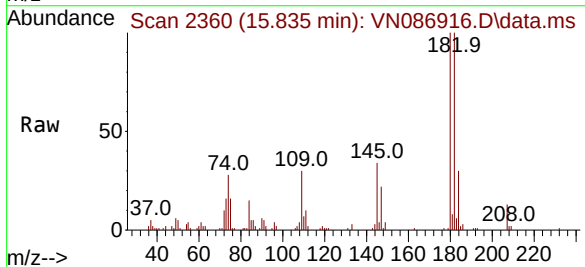
Tgt Ion:128 Resp: 257750
Ion Ratio Lower Upper
128 100
127 13.0 10.2 15.2
129 11.0 8.8 13.2

Manual Integrations
APPROVED

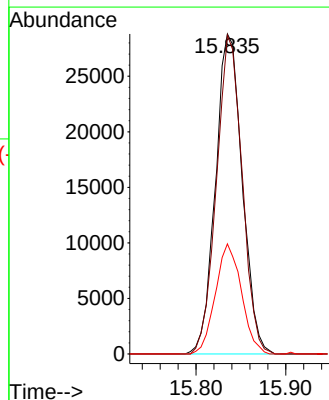
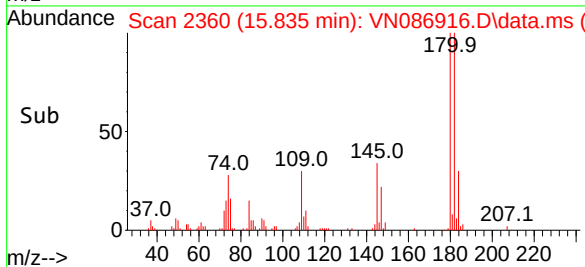
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#96
1,2,3-Trichlorobenzene
Concen: 15.670 ug/l
RT: 15.835 min Scan# 2360
Delta R.T. -0.000 min
Lab File: VN086916.D
Acq: 10 Jun 2025 10:30



Tgt Ion:180 Resp: 59536
Ion Ratio Lower Upper
180 100
182 95.5 47.0 141.0
145 33.5 16.6 49.8



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	VN0611WBS02	SDG No.:	Q2250
Lab Sample ID:	VN0611WBS02	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086944.D	1		06/11/25 13:27	VN061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.9		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.2		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.4		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.5		0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.0		0.20	1.00	ug/L
71-43-2	Benzene	19.3		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.5		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.4		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	19.2		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.1		70 (74) - 130 (125)	94%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	48.7		70 (86) - 130 (113)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	207000	8.235			
540-36-3	1,4-Difluorobenzene	371000	9.106			
3114-55-4	Chlorobenzene-d5	321000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	157000	13.788			

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_N\Data\VN061125\
 Data File : VN086944.D
 Acq On : 11 Jun 2025 13:27
 Operator : JC\MD
 Sample : VN0611WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0611WBS02

Manual Integrations APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:31:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	206799	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	370524	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	321188	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	157403	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	130342	47.075	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.160%		
35) Dibromofluoromethane	8.177	113	112198	51.096	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	102.200%		
50) Toluene-d8	10.571	98	423380	48.706	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.420%		
62) 4-Bromofluorobenzene	12.847	95	161321	49.951	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	99.900%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.153	85	40672	19.725	ug/l	100
3) Chloromethane	2.401	50	42812	16.079	ug/l	97
4) Vinyl Chloride	2.553	62	51780	18.852	ug/l	95
5) Bromomethane	3.000	94	25577	16.641	ug/l	90
6) Chloroethane	3.153	64	34500	19.446	ug/l	99
7) Trichlorofluoromethane	3.530	101	68752	19.159	ug/l	99
8) Diethyl Ether	3.983	74	30914	19.772	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.400	101	44117	19.568	ug/l	99
10) Methyl Iodide	4.612	142	36924	12.634	ug/l	100
11) Tert butyl alcohol	5.541	59	69743	92.831	ug/l	99
12) 1,1-Dichloroethene	4.365	96	44269	19.233	ug/l	97
13) Acrolein	4.206	56	22290	93.730	ug/l	98
14) Allyl chloride	5.047	41	68027	17.821	ug/l	97
15) Acrylonitrile	5.741	53	166971	95.084	ug/l	100
16) Acetone	4.447	43	145322	98.972	ug/l	98
17) Carbon Disulfide	4.742	76	113132	17.769	ug/l	100
18) Methyl Acetate	5.047	43	81357	19.013	ug/l	99
19) Methyl tert-butyl Ether	5.812	73	163338	19.599	ug/l	98
20) Methylene Chloride	5.294	84	52196	18.988	ug/l	96
21) trans-1,2-Dichloroethene	5.812	96	47284	18.464	ug/l	95
22) Diisopropyl ether	6.688	45	155508	19.326	ug/l	97
23) Vinyl Acetate	6.618	43	653278	96.092	ug/l	98
24) 1,1-Dichloroethane	6.588	63	89930	19.421	ug/l	100
25) 2-Butanone	7.494	43	215760	90.401	ug/l	96
26) 2,2-Dichloropropane	7.500	77	78031	21.663	ug/l	98
27) cis-1,2-Dichloroethene	7.500	96	59578	19.453	ug/l	99
28) Bromochloromethane	7.824	49	45329	19.909	ug/l	95
29) Tetrahydrofuran	7.853	42	143866	92.532	ug/l	97
30) Chloroform	7.977	83	90272	19.521	ug/l	98
31) Cyclohexane	8.265	56	79050	17.603	ug/l	97
32) 1,1,1-Trichloroethane	8.182	97	74861	19.033	ug/l	97
36) 1,1-Dichloropropene	8.377	75	63577	19.431	ug/l	99
37) Ethyl Acetate	7.571	43	80415	19.306	ug/l	99
38) Carbon Tetrachloride	8.371	117	61747	19.222	ug/l	97
39) Methylcyclohexane	9.606	83	75971	16.947	ug/l	98
40) Benzene	8.612	78	206255	19.277	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086944.D
 Acq On : 11 Jun 2025 13:27
 Operator : JC\MD
 Sample : VN0611WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0611WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 06/12/2025
 Supervised By :Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:31:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.788	41	42617	18.218	ug/l	93
42) 1,2-Dichloroethane	8.677	62	63379	19.530	ug/l	98
43) Isopropyl Acetate	8.694	43	126914	18.984	ug/l	98
44) Trichloroethene	9.359	130	50593	19.942	ug/l	99
45) 1,2-Dichloropropane	9.624	63	51091	19.628	ug/l	95
46) Dibromomethane	9.712	93	34741	20.093	ug/l	99
47) Bromodichloromethane	9.894	83	69845	19.634	ug/l	98
48) Methyl methacrylate	9.682	41	57757	18.771	ug/l	99
49) 1,4-Dioxane	9.706	88	22914	409.347	ug/l #	97
51) 4-Methyl-2-Pentanone	10.447	43	394396	97.997	ug/l	99
52) Toluene	10.629	92	127563	19.509	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	79224	19.917	ug/l	100
54) cis-1,3-Dichloropropene	10.318	75	85586	20.109	ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	51421	20.438	ug/l	94
56) Ethyl methacrylate	10.882	69	80942	20.198	ug/l	94
57) 1,3-Dichloropropane	11.165	76	85602	19.613	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.165	63	243584	101.910	ug/l	99
59) 2-Hexanone	11.206	43	231264	89.210	ug/l	95
60) Dibromochloromethane	11.359	129	53655	20.468	ug/l	99
61) 1,2-Dibromoethane	11.471	107	50832	19.711	ug/l	99
64) Tetrachloroethene	11.106	164	38926	19.150	ug/l	98
65) Chlorobenzene	11.894	112	141721	20.006	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	46404	20.378	ug/l	99
67) Ethyl Benzene	11.965	91	239733	19.647	ug/l	100
68) m/p-Xylenes	12.070	106	185026	39.613	ug/l	99
69) o-Xylene	12.400	106	90240	20.172	ug/l	99
70) Styrene	12.412	104	154149	20.137	ug/l	99
71) Bromoform	12.582	173	35350	20.952	ug/l #	96
73) Isopropylbenzene	12.694	105	221545	19.320	ug/l	99
74) N-amyl acetate	12.529	43	63289	15.794	ug/l #	85
75) 1,1,2,2-Tetrachloroethane	12.941	83	81476	20.973	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	71582m	19.132	ug/l	
77) Bromobenzene	12.982	156	55176	20.981	ug/l	98
78) n-propylbenzene	13.035	91	267384	19.187	ug/l	100
79) 2-Chlorotoluene	13.123	91	164813	19.721	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	181773	19.200	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	30121	18.532	ug/l #	82
82) 4-Chlorotoluene	13.217	91	167991	19.866	ug/l	100
83) tert-Butylbenzene	13.435	119	161593	18.646	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	182431	19.216	ug/l	98
85) sec-Butylbenzene	13.617	105	228907	18.189	ug/l	100
86) p-Isopropyltoluene	13.729	119	192991	18.551	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	104883	20.271	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	107750	20.426	ug/l	99
89) n-Butylbenzene	14.053	91	177482	17.613	ug/l	100
90) Hexachloroethane	14.329	117	33456	18.972	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	99394	19.995	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	17796	19.155	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	58509	18.433	ug/l	98
94) Hexachlorobutadiene	15.500	225	19592	16.567	ug/l	97
95) Naphthalene	15.635	128	232760	19.700	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	56144	17.802	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086944.D
Acq On : 11 Jun 2025 13:27
Operator : JC\MD
Sample : VN0611WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 12 01:31:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 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

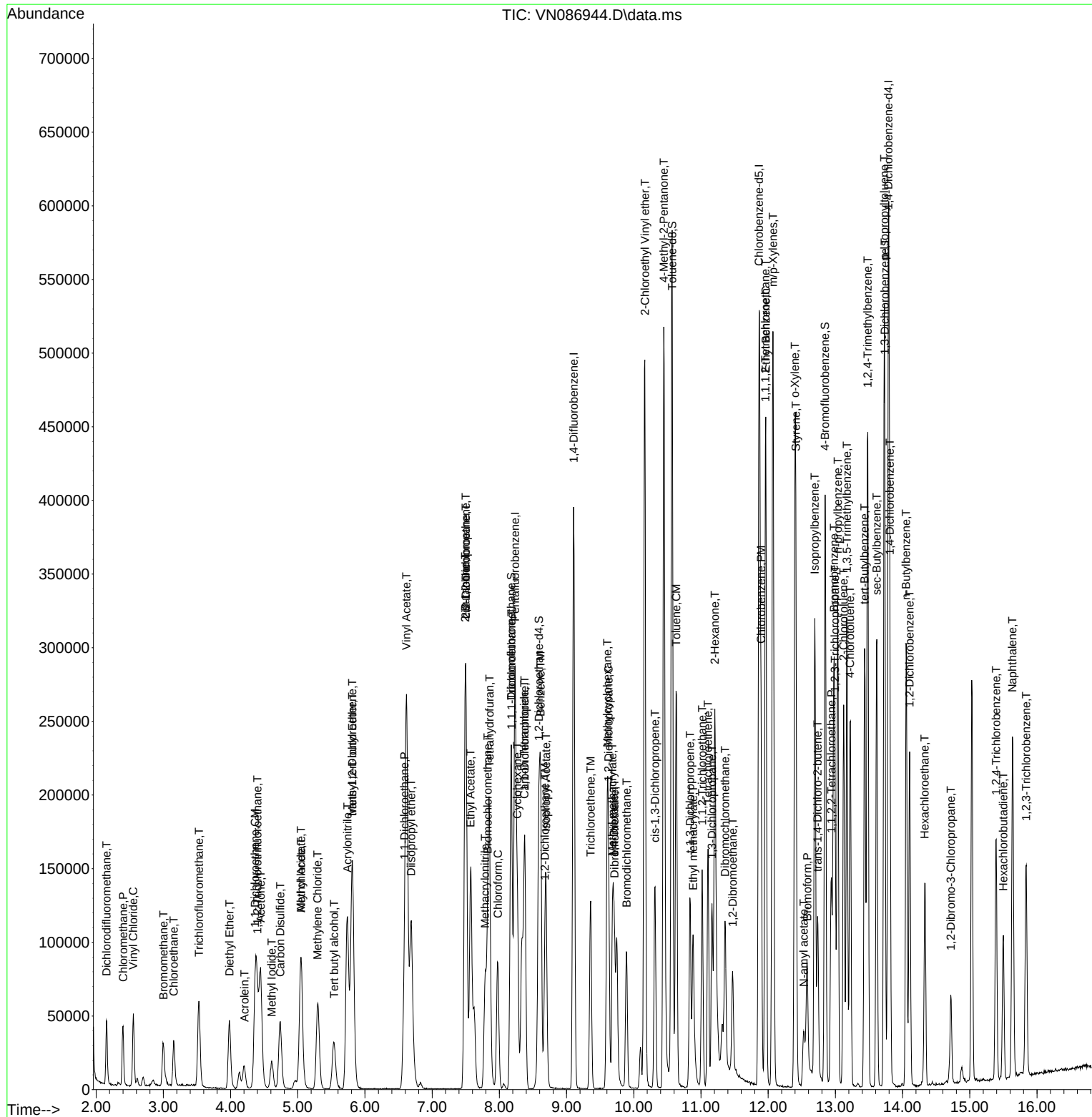
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Data File : VN086944.D  
Acq On    : 11 Jun 2025  13:27  
Operator  : JC\MD  
Sample    : VN0611WBS02  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 6      Sample Multiplier: 1
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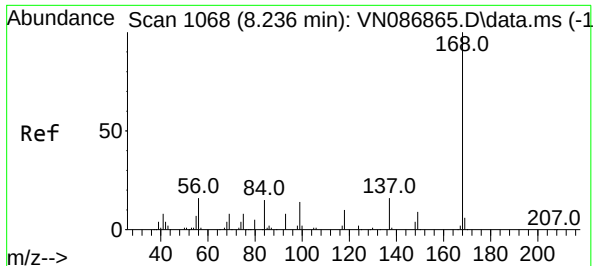
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Manual Integrations

Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

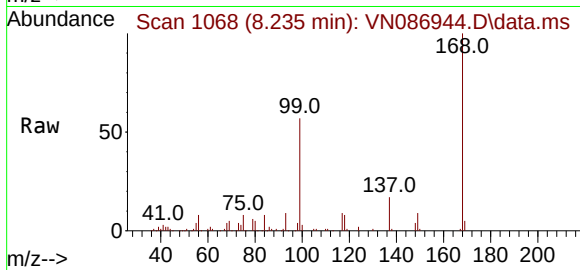
Quant Time: Jun 12 01:31:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.001 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

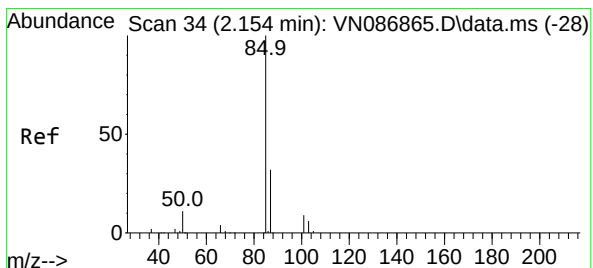
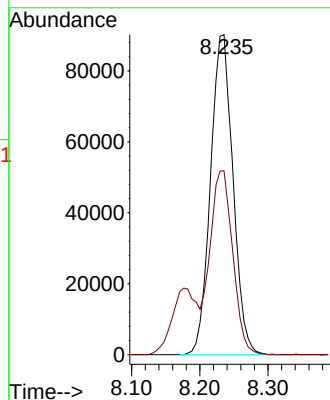
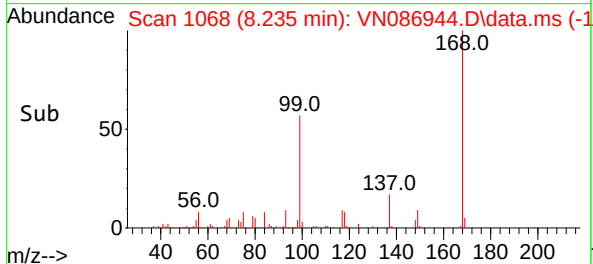
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02



Tgt Ion: 168 Resp: 206799
Ion Ratio Lower Upper
168 100
99 57.5 49.1 73.7

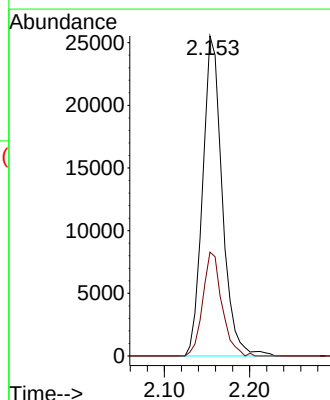
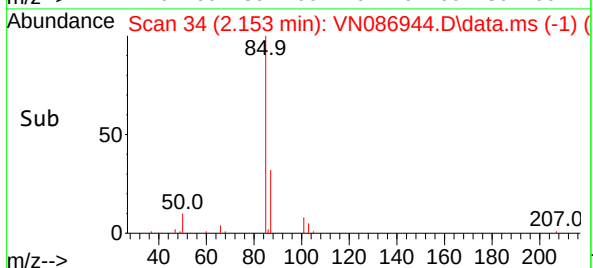
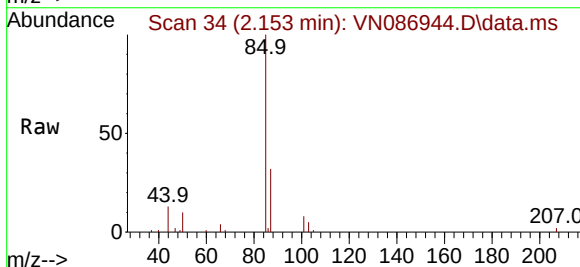
Manual Integrations
APPROVED

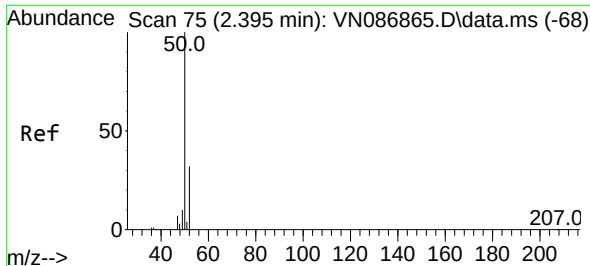
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#2
Dichlorodifluoromethane
Concen: 19.725 ug/l
RT: 2.153 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion: 85 Resp: 40672
Ion Ratio Lower Upper
85 100
87 32.5 16.2 48.6





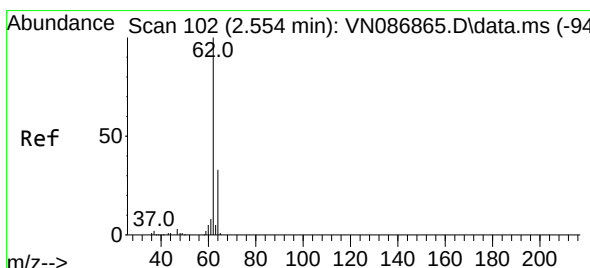
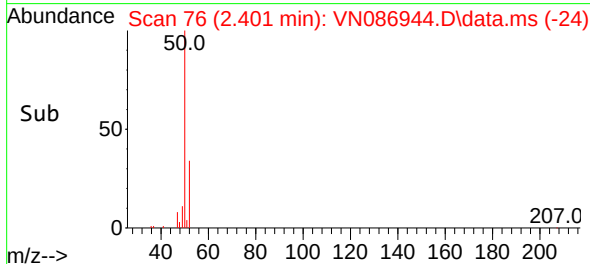
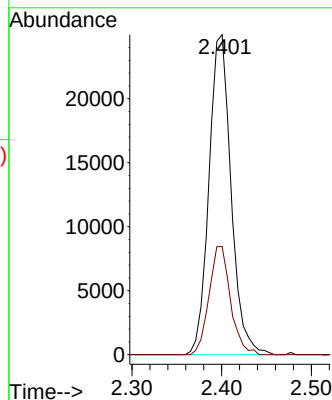
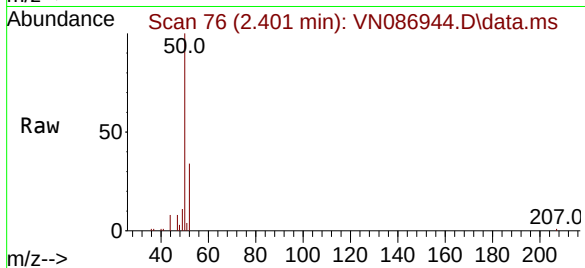
#3
Chloromethane
Concen: 16.079 ug/l
RT: 2.401 min Scan# 75
Delta R.T. 0.006 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Tgt Ion: 50 Resp: 4281
Ion Ratio Lower Upper
50 100
52 33.8 25.7 38.5

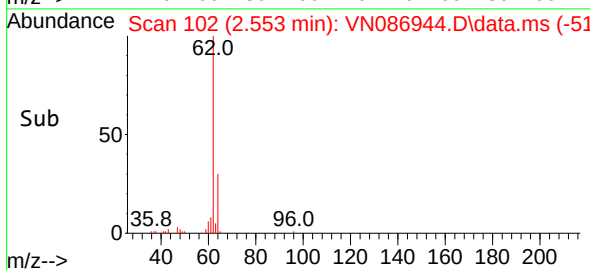
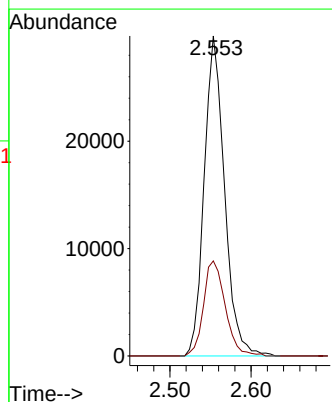
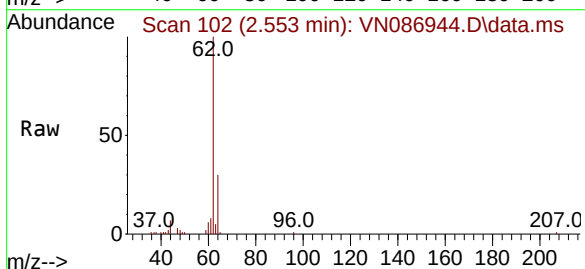
Manual Integrations
APPROVED

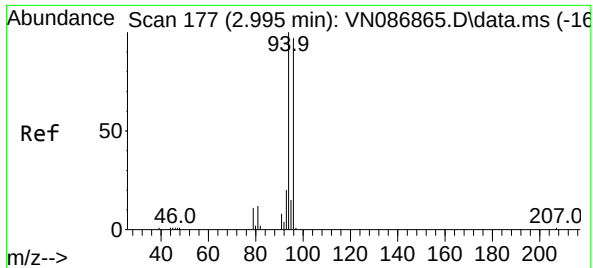
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#4
Vinyl Chloride
Concen: 18.852 ug/l
RT: 2.553 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

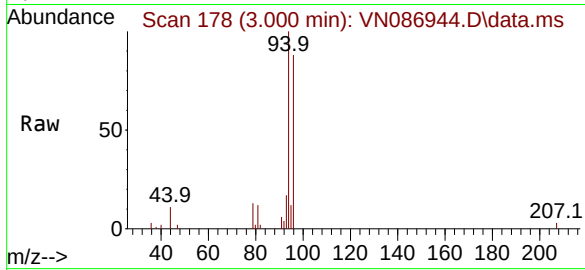
Tgt Ion: 62 Resp: 51780
Ion Ratio Lower Upper
62 100
64 29.7 26.0 39.0





#5
Bromomethane
Concen: 16.641 ug/l
RT: 3.000 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

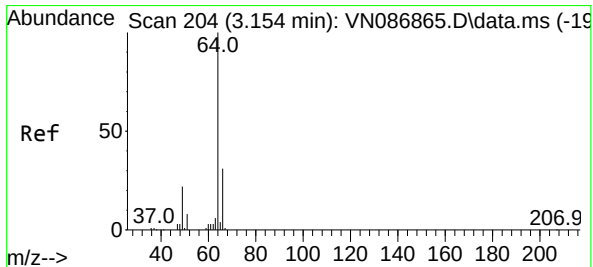
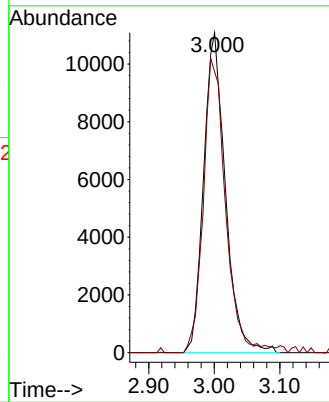
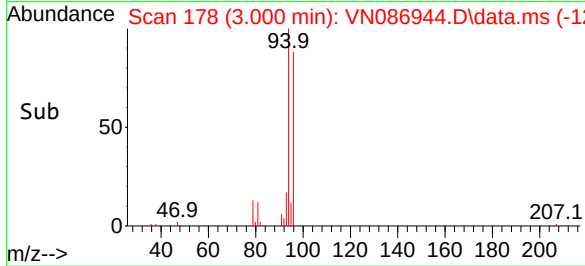
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02



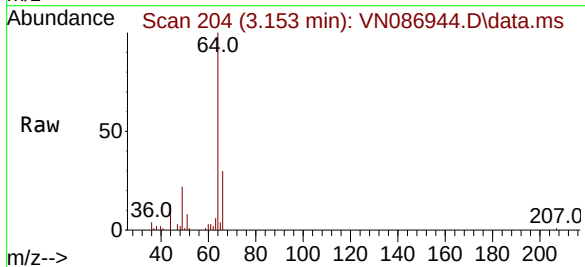
Tgt Ion: 94 Resp: 2557
Ion Ratio Lower Upper
94 100
96 87.8 77.9 116.9

Manual Integrations
APPROVED

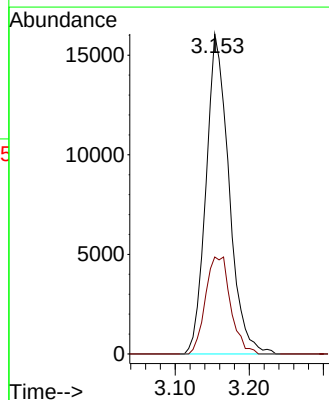
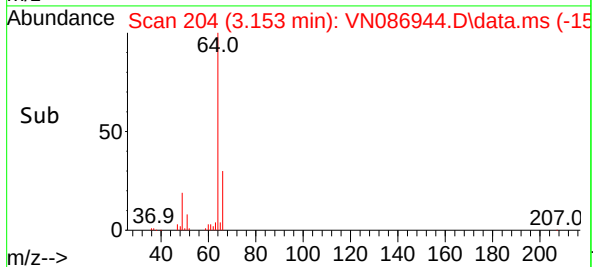
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

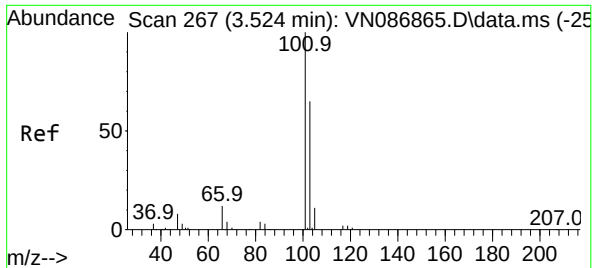


#6
Chloroethane
Concen: 19.446 ug/l
RT: 3.153 min Scan# 204
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27



Tgt Ion: 64 Resp: 34500
Ion Ratio Lower Upper
64 100
66 30.3 24.6 36.8





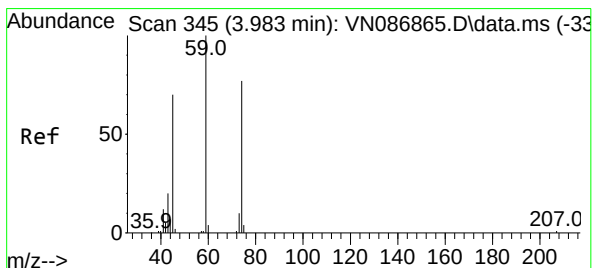
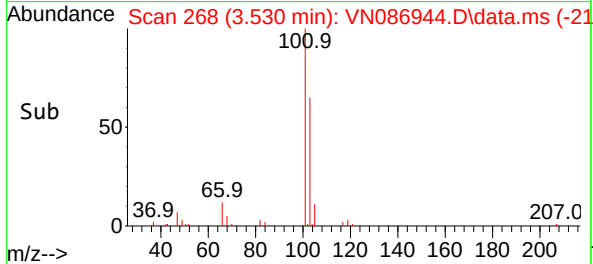
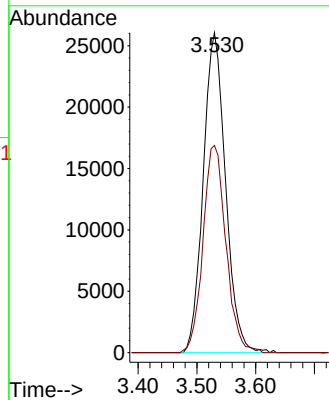
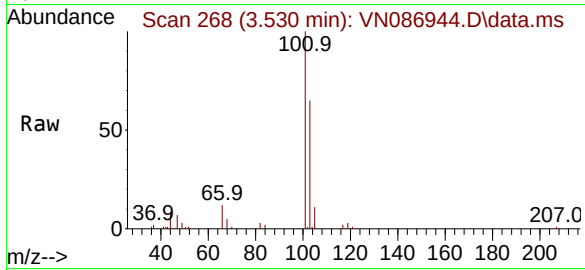
#7
Trichlorofluoromethane
Concen: 19.159 ug/l
RT: 3.530 min Scan# 267
Delta R.T. 0.006 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Tgt Ion: 101 Resp: 6875
Ion Ratio Lower Upper
101 100
103 64.8 52.2 78.2

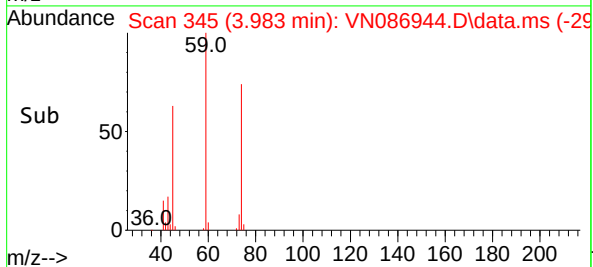
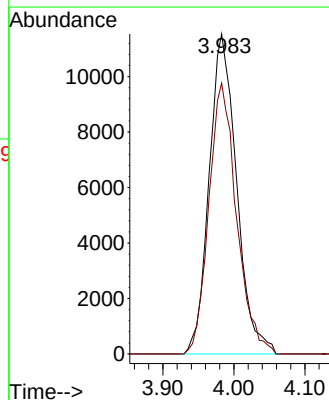
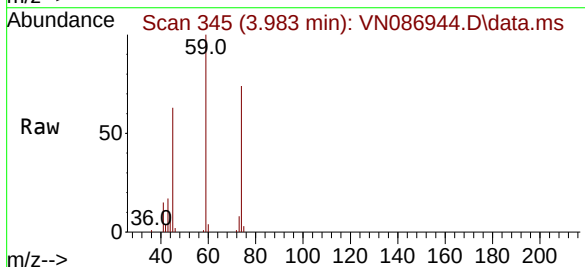
Manual Integrations
APPROVED

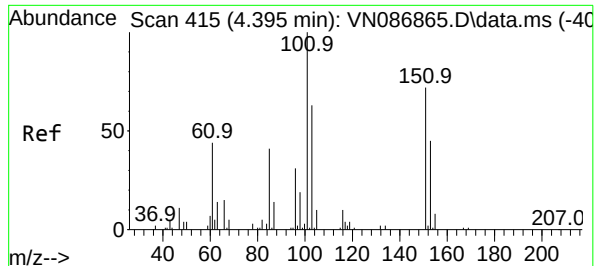
Reviewed By : John Carlone 06/12/2025
Supervised By : Semsettin Yesilyurt 06/12/2025



#8
Diethyl Ether
Concen: 19.772 ug/l
RT: 3.983 min Scan# 345
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion: 74 Resp: 30914
Ion Ratio Lower Upper
74 100
45 85.5 45.5 136.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.568 ug/l

RT: 4.400 min Scan# 411

Delta R.T. 0.006 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBS02

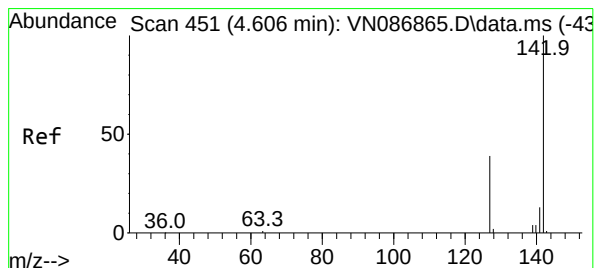
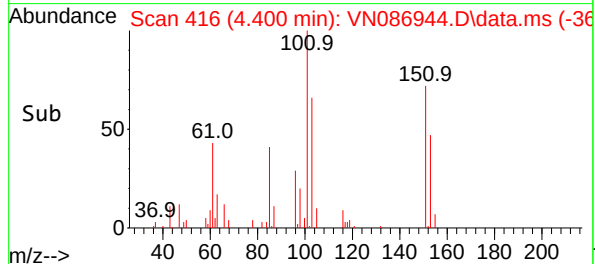
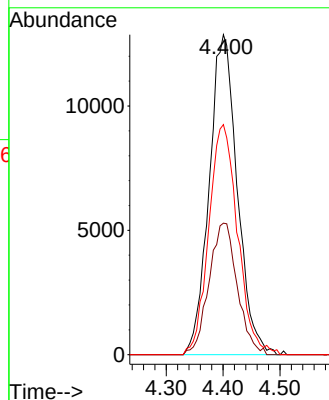
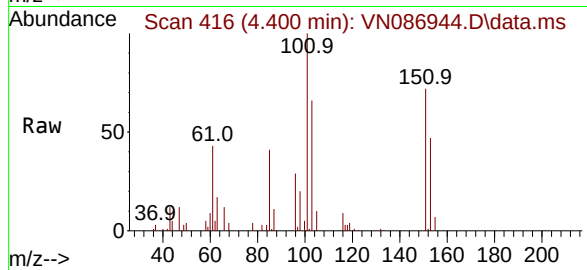
Tgt Ion:	101	Resp:	4411
Ion	Ratio	Lower	Upper
101	100		
85	41.5	33.8	50.8
151	74.0	58.7	88.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#10

Methyl Iodide

Concen: 12.634 ug/l

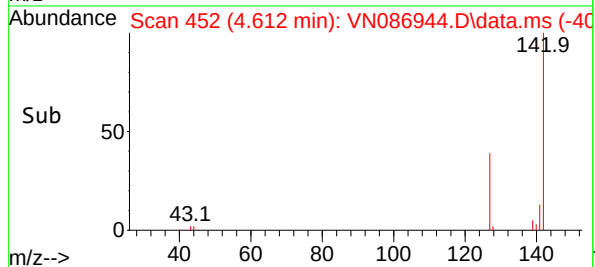
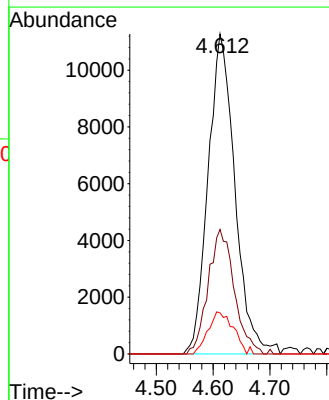
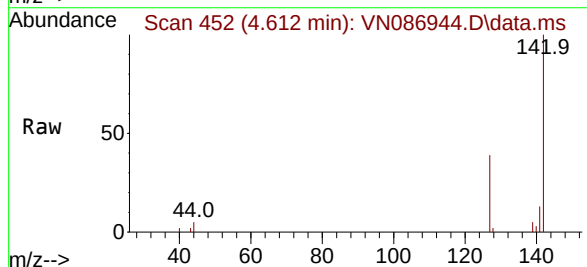
RT: 4.612 min Scan# 452

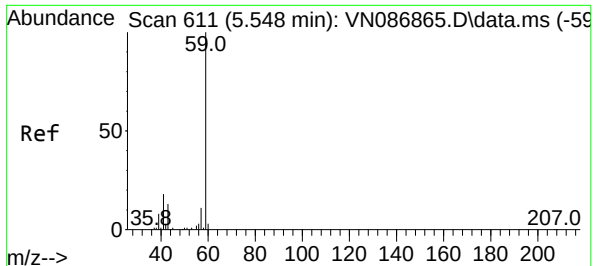
Delta R.T. 0.006 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Tgt Ion:	142	Resp:	36924
Ion	Ratio	Lower	Upper
142	100		
127	38.9	30.9	46.3
141	12.9	10.4	15.6





#11

Tert butyl alcohol

Concen: 92.831 ug/l

RT: 5.541 min Scan# 611

Delta R.T. -0.006 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBS02

Tgt Ion: 59 Resp: 6974

Ion Ratio Lower Upper

59 100

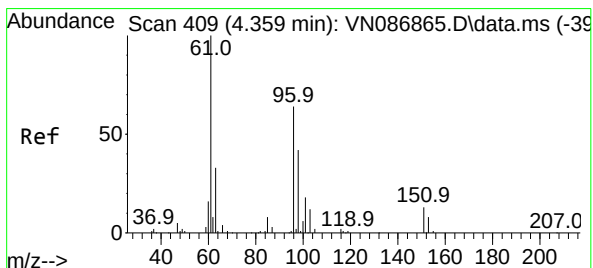
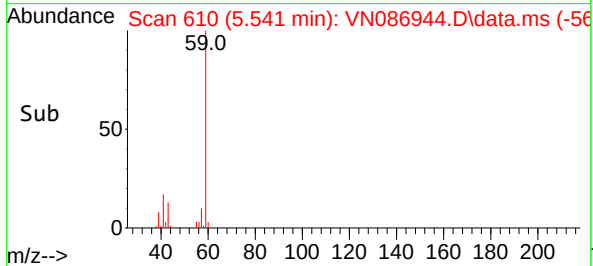
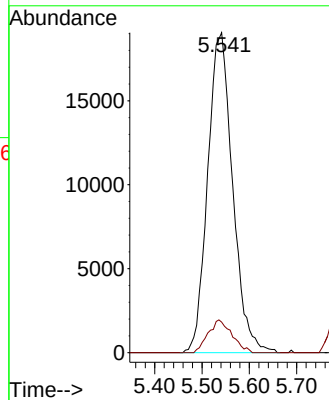
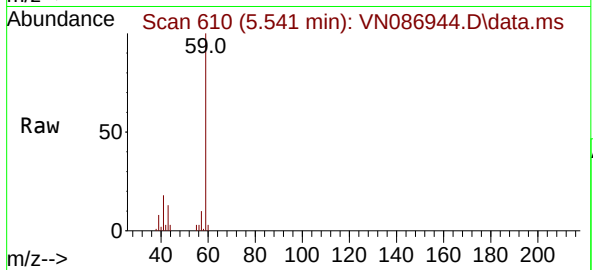
57 9.8 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#12

1,1-Dichloroethene

Concen: 19.233 ug/l

RT: 4.365 min Scan# 410

Delta R.T. 0.006 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

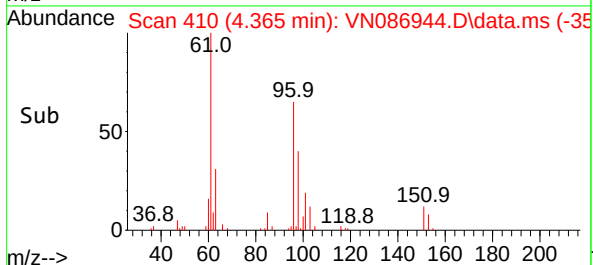
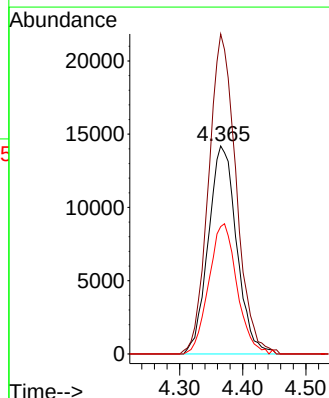
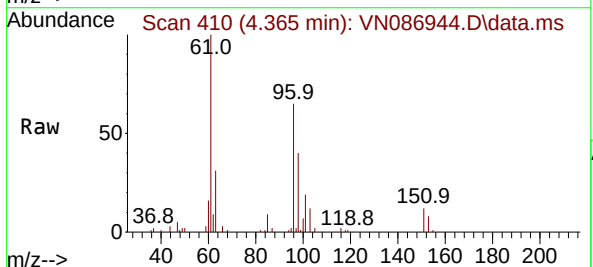
Tgt Ion: 96 Resp: 44269

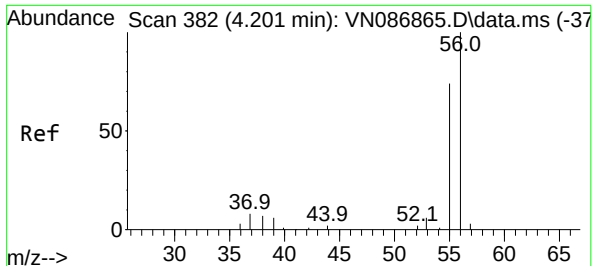
Ion Ratio Lower Upper

96 100

61 153.8 125.8 188.6

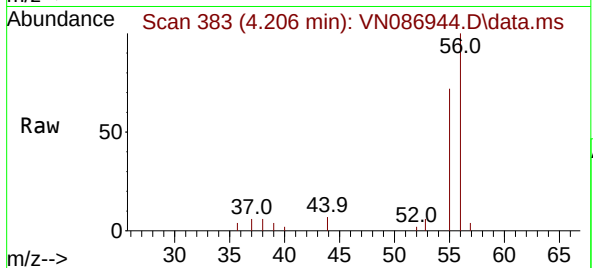
98 61.2 52.5 78.7





#13
Acrolein
Concen: 93.730 ug/l
RT: 4.206 min Scan# 382
Delta R.T. 0.006 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

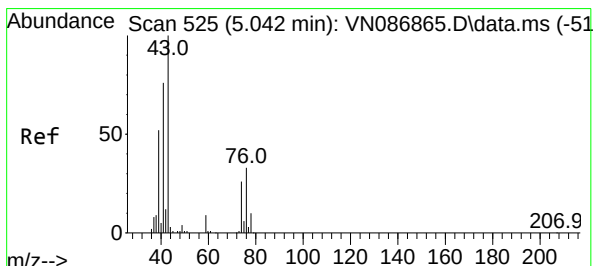
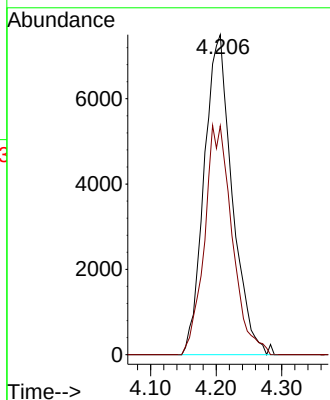
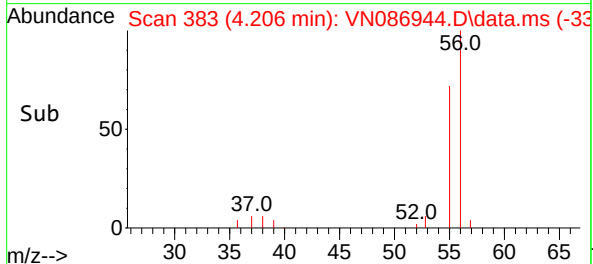
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02



Tgt Ion: 56 Resp: 22290
Ion Ratio Lower Upper
56 100
55 70.9 55.6 83.4

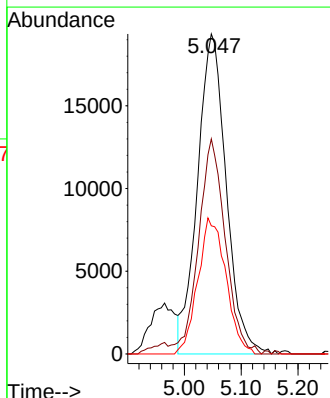
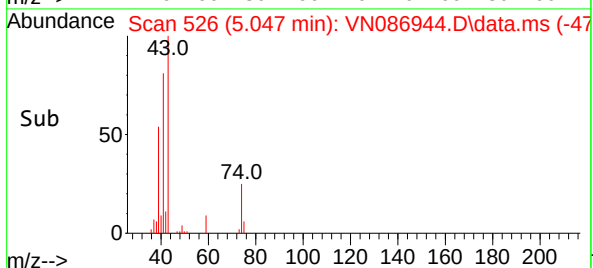
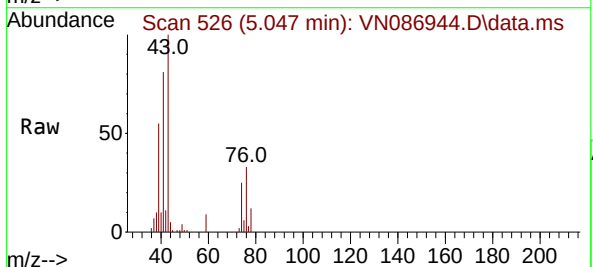
Manual Integrations
APPROVED

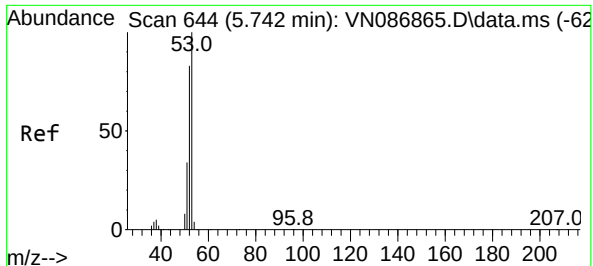
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#14
Allyl chloride
Concen: 17.821 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion: 41 Resp: 68027
Ion Ratio Lower Upper
41 100
39 62.5 51.3 76.9
76 41.4 31.4 47.0





#15

Acrylonitrile

Concen: 95.084 ug/l

RT: 5.741 min Scan# 644

Delta R.T. -0.000 min

Lab File: VN086944.D

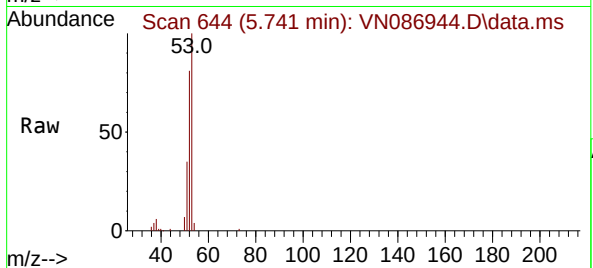
Acq: 11 Jun 2025 13:27

Instrument :

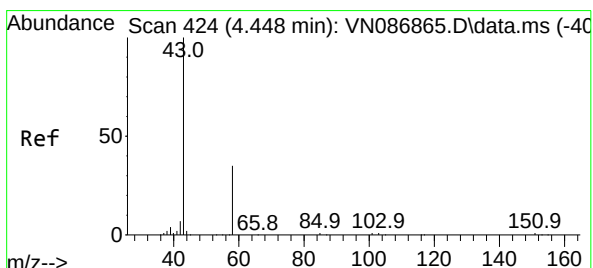
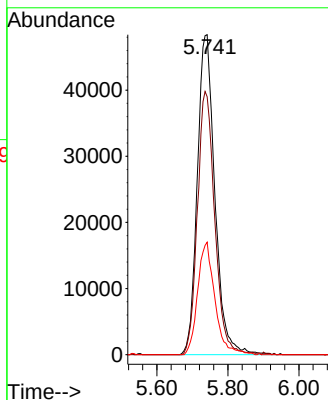
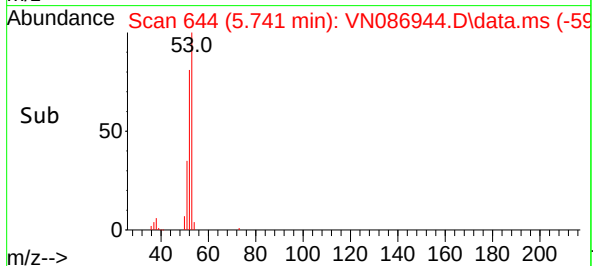
MSVOA_N

ClientSampleId :

VN0611WBS02



Tgt Ion:	53	Resp:	16697
Ion	Ratio	Lower	Upper
53	100		
52	81.1	65.0	97.6
51	34.5	27.2	40.8

Manual Integrations
APPROVEDReviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

#16

Acetone

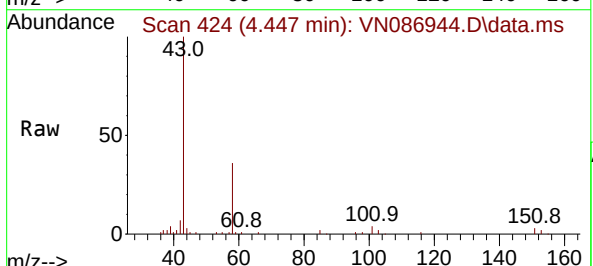
Concen: 98.972 ug/l

RT: 4.447 min Scan# 424

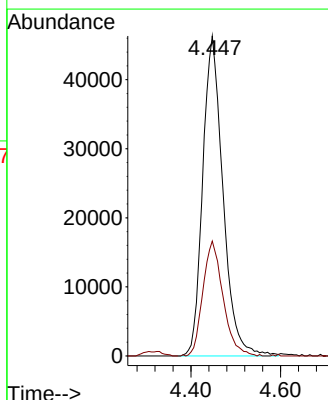
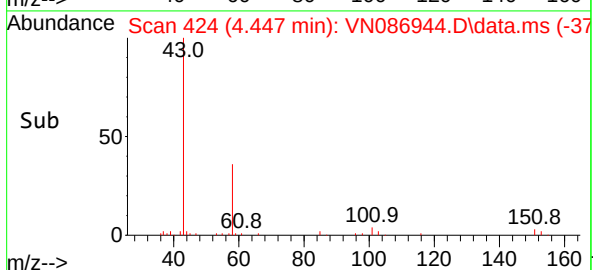
Delta R.T. -0.000 min

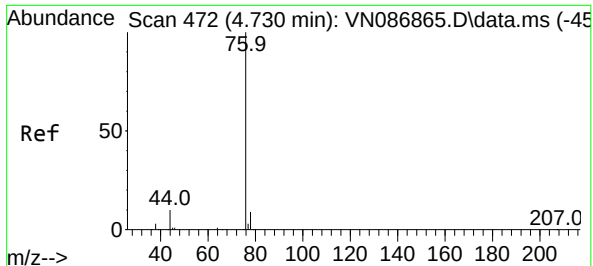
Lab File: VN086944.D

Acq: 11 Jun 2025 13:27



Tgt Ion:	43	Resp:	145322
Ion	Ratio	Lower	Upper
43	100		
58	35.9	28.0	42.0





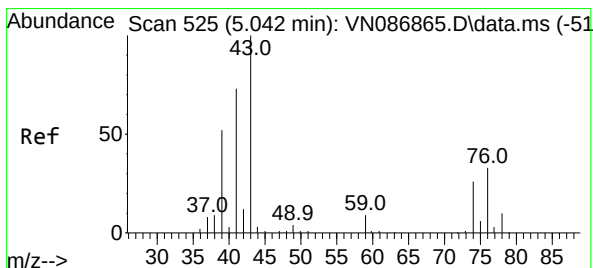
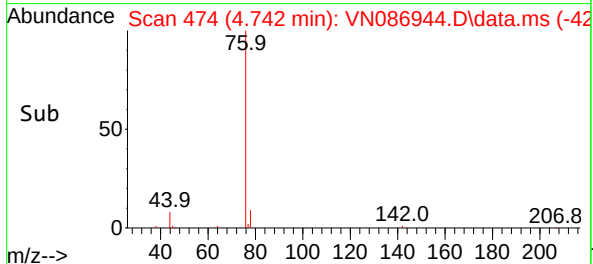
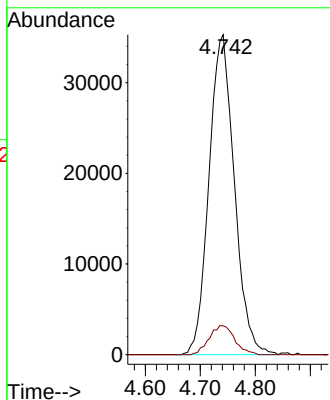
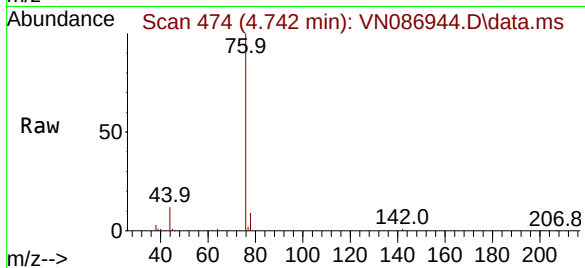
#17
Carbon Disulfide
Concen: 17.769 ug/l
RT: 4.742 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Tgt Ion: 76 Resp: 11313
Ion Ratio Lower Upper
76 100
78 9.0 7.3 10.9

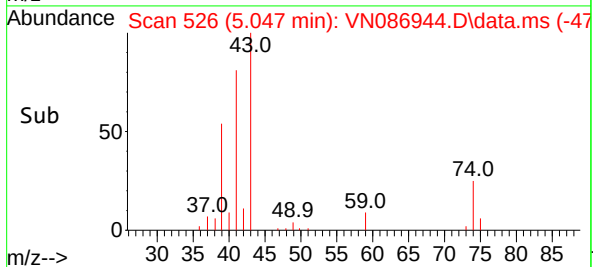
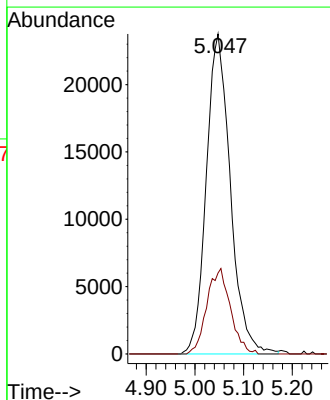
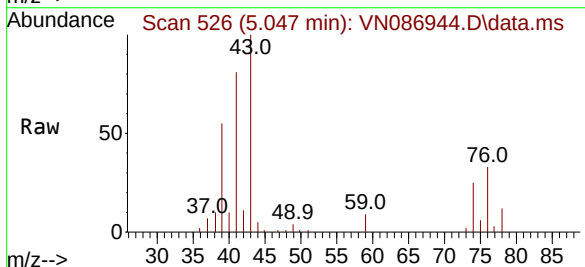
Manual Integrations
APPROVED

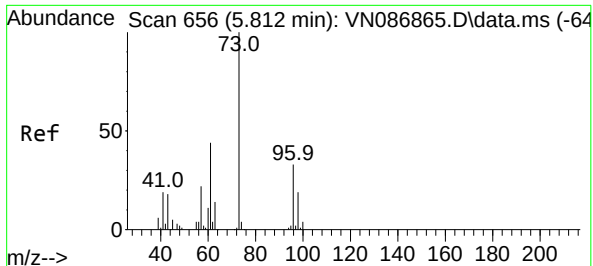
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#18
Methyl Acetate
Concen: 19.013 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion: 43 Resp: 81357
Ion Ratio Lower Upper
43 100
74 26.2 20.7 31.1





#19

Methyl tert-butyl Ether

Concen: 19.599 ug/l

RT: 5.812 min Scan# 656

Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBS02

Tgt Ion: 73 Resp: 163338

Ion Ratio Lower Upper

73 100

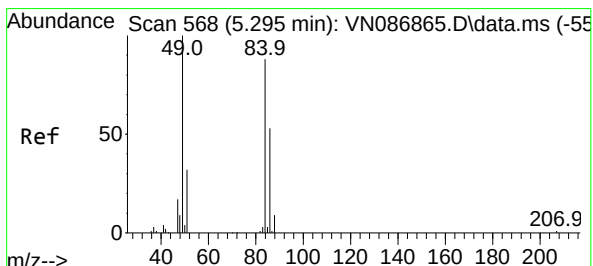
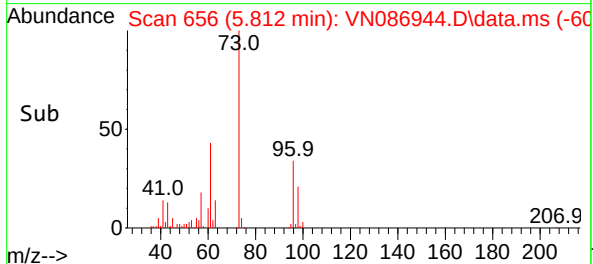
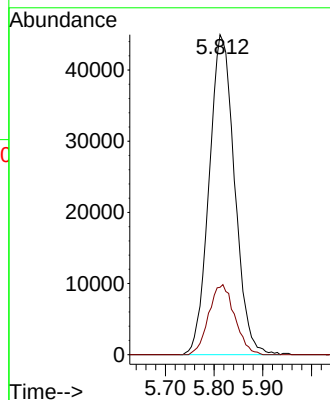
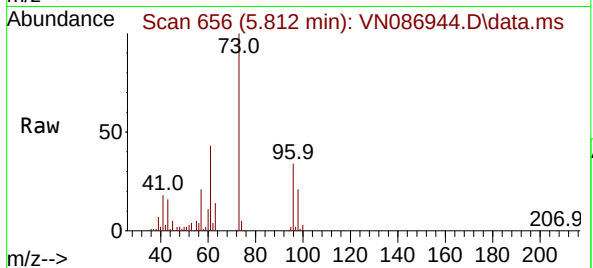
57 21.0 17.4 26.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#20

Methylene Chloride

Concen: 18.988 ug/l

RT: 5.294 min Scan# 568

Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Tgt Ion: 84 Resp: 52196

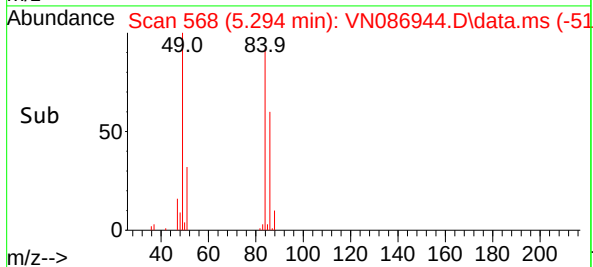
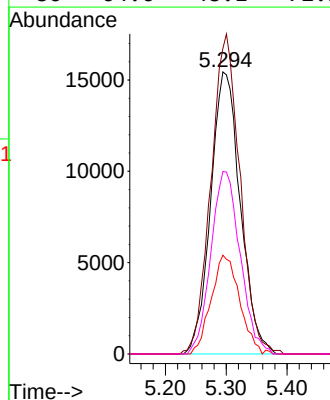
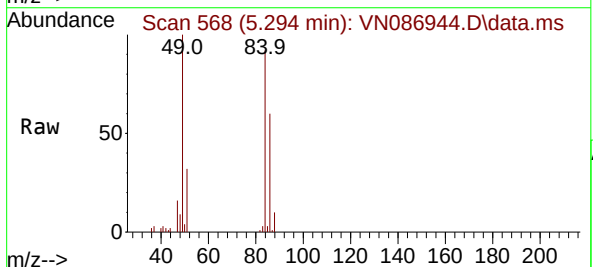
Ion Ratio Lower Upper

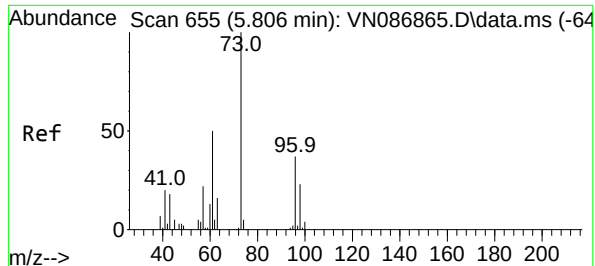
84 100

49 108.4 90.5 135.7

51 35.0 28.5 42.7

86 64.6 48.1 72.1





#21

trans-1,2-Dichloroethene

Concen: 18.464 ug/l

RT: 5.812 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBS02

Tgt Ion: 96 Resp: 47284

Ion Ratio Lower Upper

96 100

61 127.9 109.2 163.8

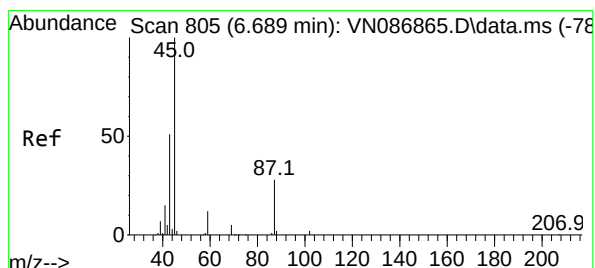
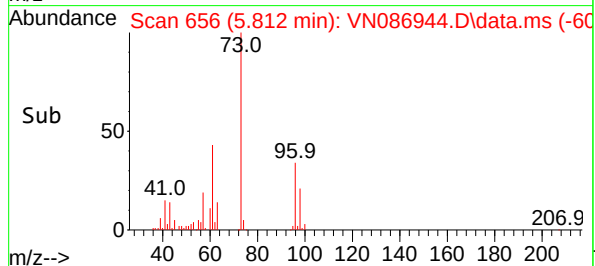
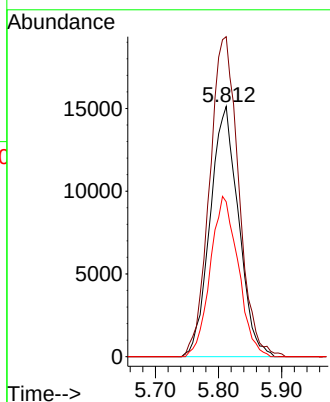
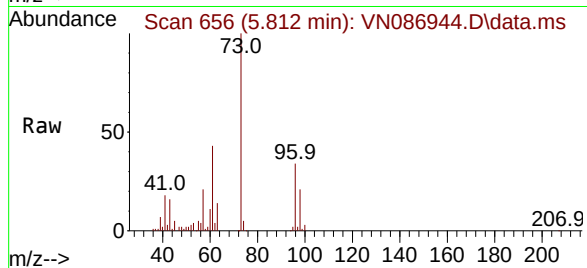
98 61.9 49.8 74.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#22

Diisopropyl ether

Concen: 19.326 ug/l

RT: 6.688 min Scan# 805

Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Tgt Ion: 45 Resp: 155508

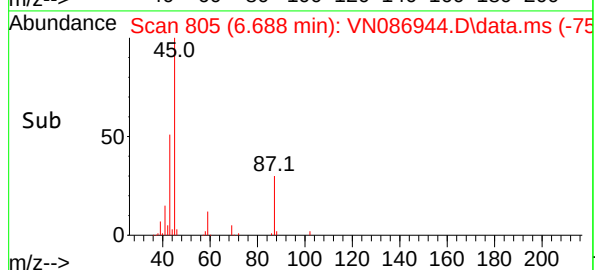
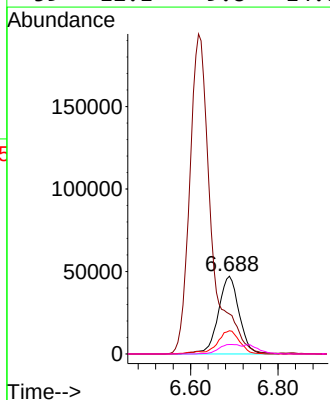
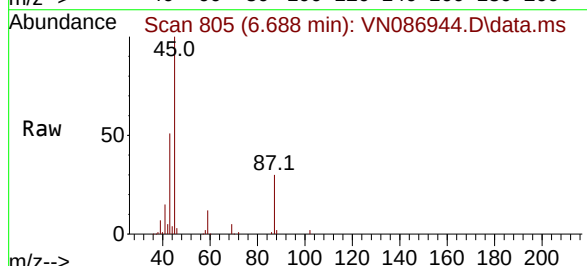
Ion Ratio Lower Upper

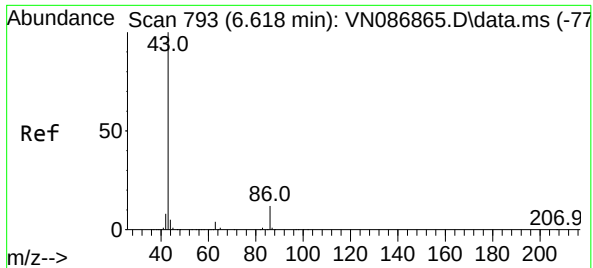
45 100

43 50.5 41.9 62.9

87 29.8 22.4 33.6

59 12.1 9.8 14.6





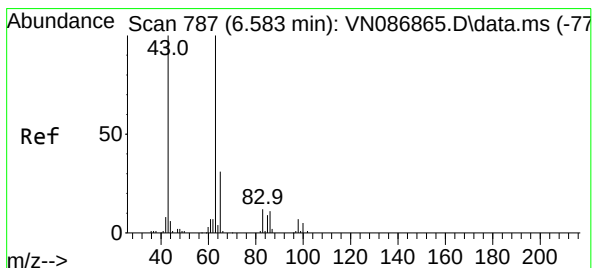
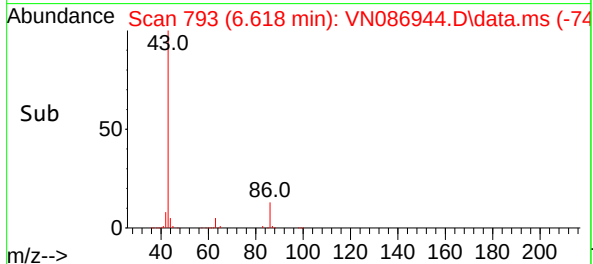
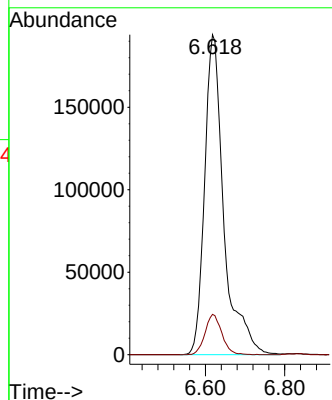
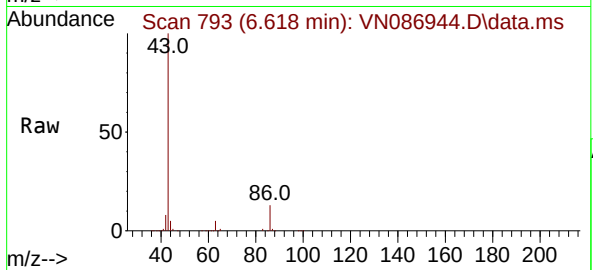
#23
Vinyl Acetate
Concen: 96.092 ug/l
RT: 6.618 min Scan# 793
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Tgt Ion: 43 Resp: 653278
Ion Ratio Lower Upper
43 100
86 12.6 9.5 14.3

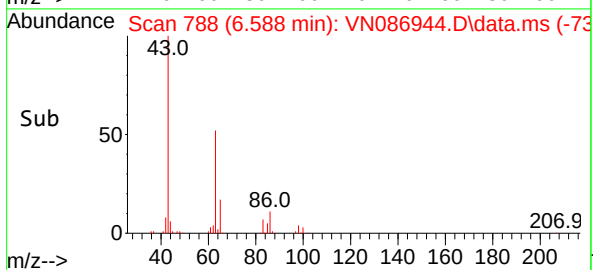
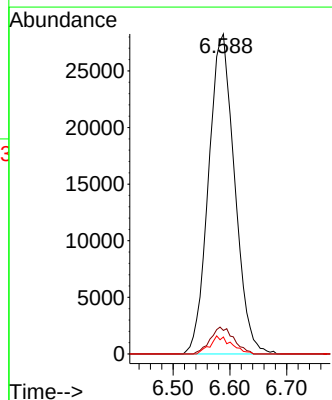
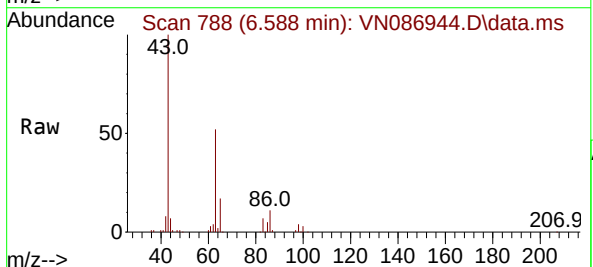
Manual Integrations
APPROVED

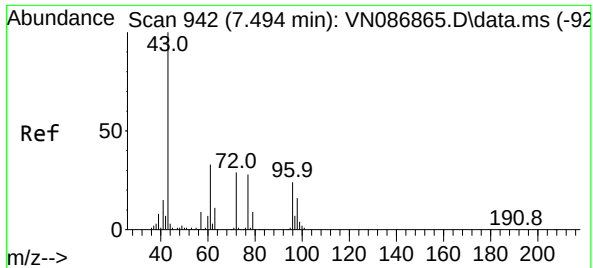
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#24
1,1-Dichloroethane
Concen: 19.421 ug/l
RT: 6.588 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion: 63 Resp: 89930
Ion Ratio Lower Upper
63 100
98 7.3 3.6 10.8
100 5.3 2.6 7.8





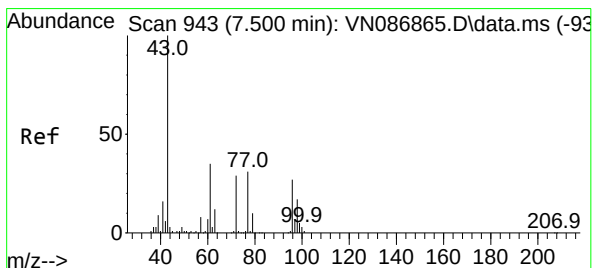
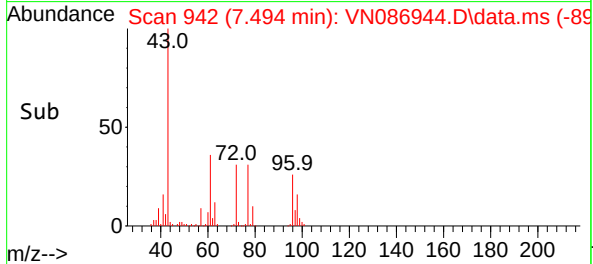
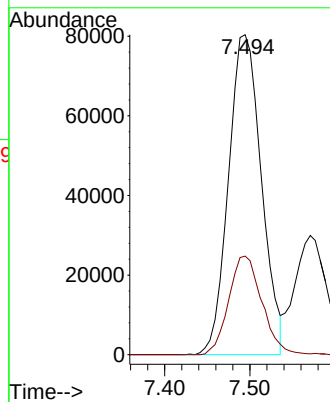
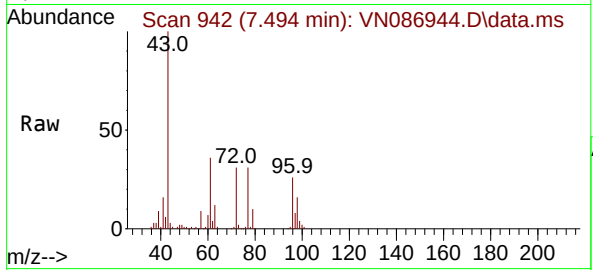
#25
2-Butanone
Concen: 90.401 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Tgt Ion: 43 Resp: 215760
Ion Ratio Lower Upper
43 100
72 30.8 23.0 34.6

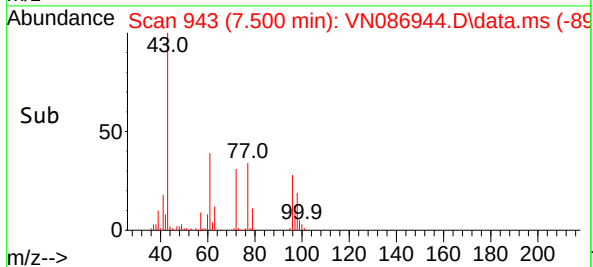
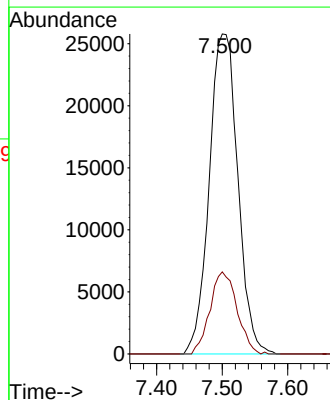
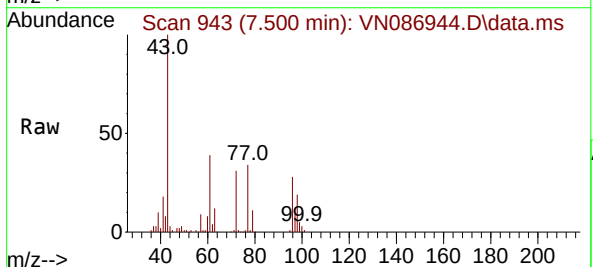
Manual Integrations
APPROVED

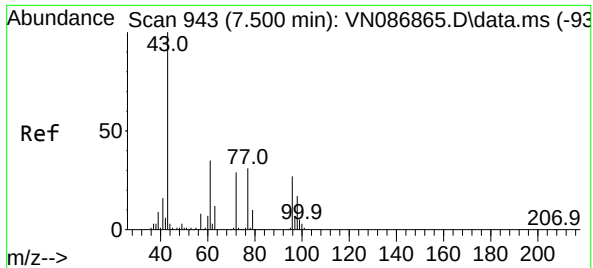
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#26
2,2-Dichloropropane
Concen: 21.663 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion: 77 Resp: 78031
Ion Ratio Lower Upper
77 100
97 24.3 11.6 34.7





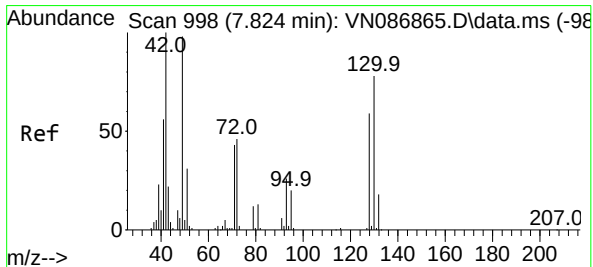
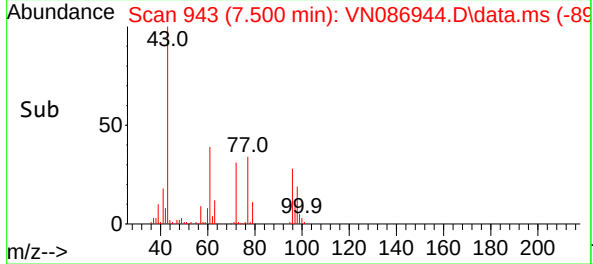
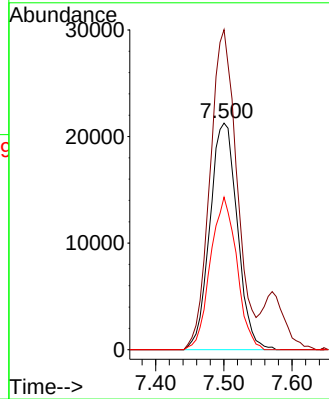
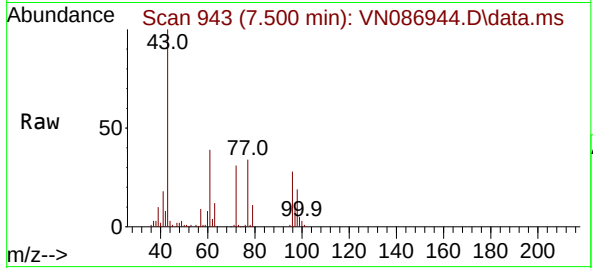
#27
cis-1,2-Dichloroethene
Concen: 19.453 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Tgt Ion: 96 Resp: 59578
Ion Ratio Lower Upper
96 100
61 138.3 0.0 278.0
98 64.6 0.0 128.2

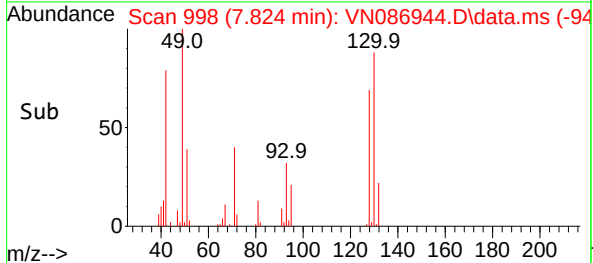
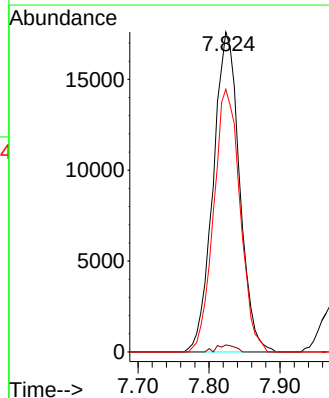
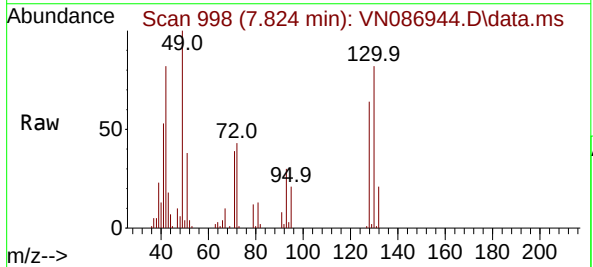
Manual Integrations
APPROVED

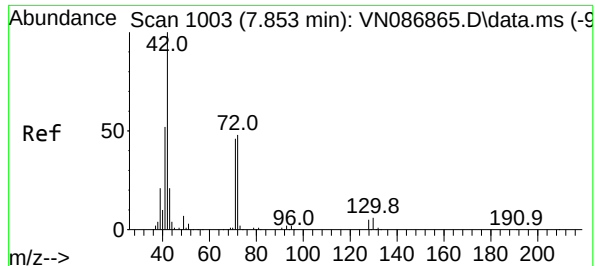
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#28
Bromochloromethane
Concen: 19.909 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion: 49 Resp: 45329
Ion Ratio Lower Upper
49 100
129 1.6 0.0 3.8
130 82.2 62.2 93.2





#29

Tetrahydrofuran

Concen: 92.532 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBS02

Tgt Ion: 42 Resp: 14386

Ion Ratio Lower Upper

42 100

72 49.4 37.8 56.6

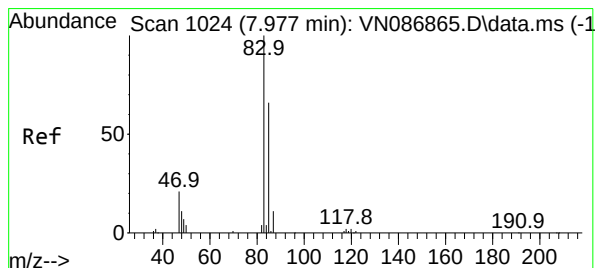
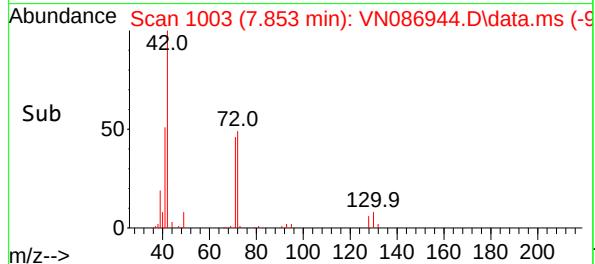
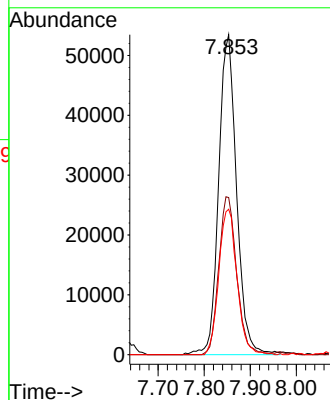
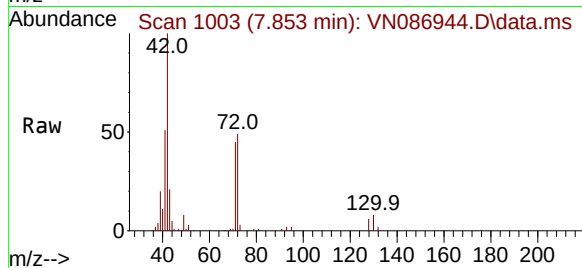
71 46.2 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#30

Chloroform

Concen: 19.521 ug/l

RT: 7.977 min Scan# 1024

Delta R.T. -0.000 min

Lab File: VN086944.D

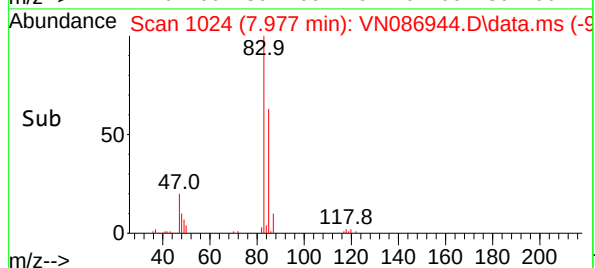
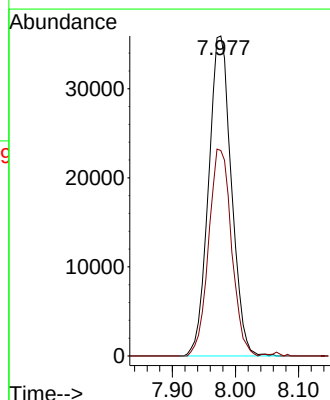
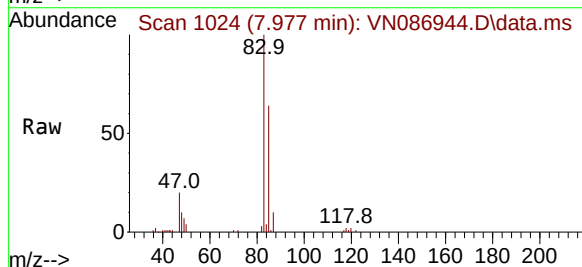
Acq: 11 Jun 2025 13:27

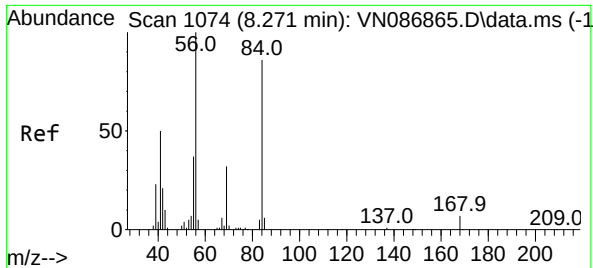
Tgt Ion: 83 Resp: 90272

Ion Ratio Lower Upper

83 100

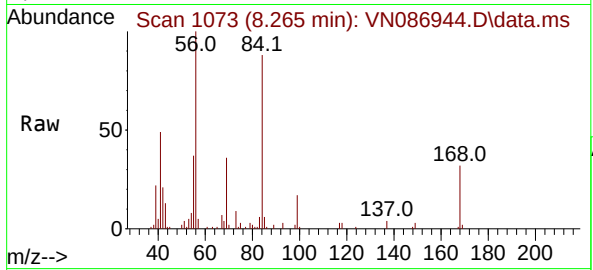
85 64.2 52.9 79.3





#31
Cyclohexane
Concen: 17.603 ug/l
RT: 8.265 min Scan# 1073
Delta R.T. -0.006 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

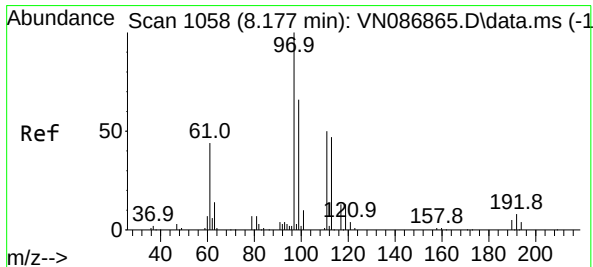
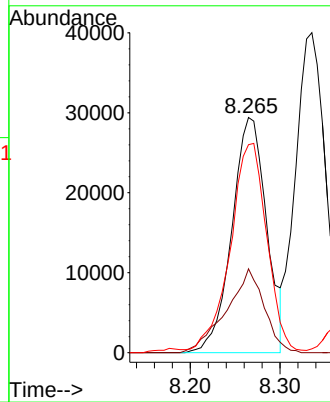
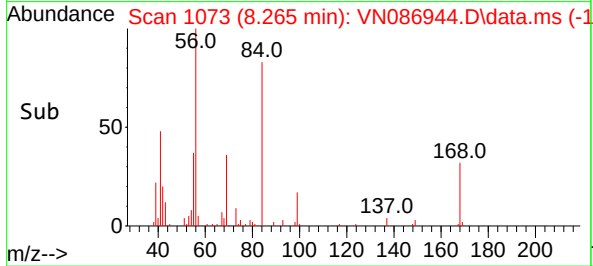
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02



Tgt Ion: 56 Resp: 79050
Ion Ratio Lower Upper
56 100
69 35.7 25.4 38.0
84 87.1 68.8 103.2

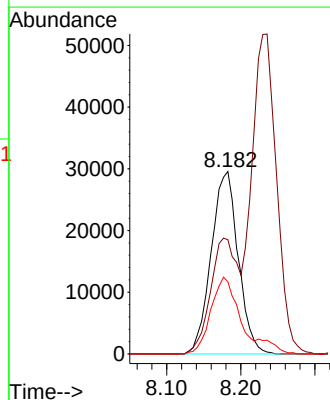
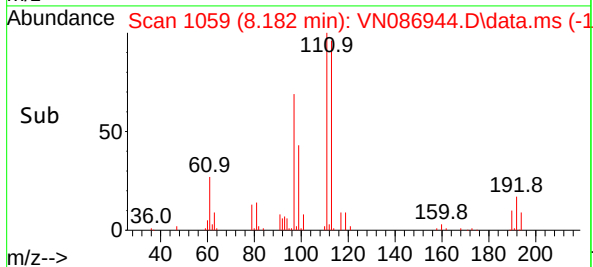
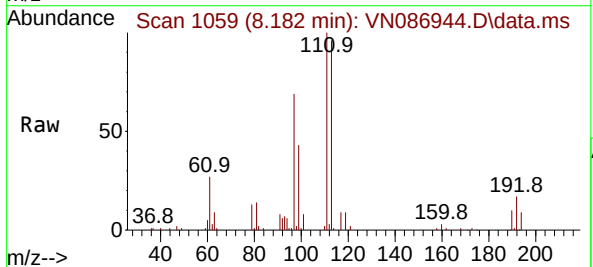
Manual Integrations
APPROVED

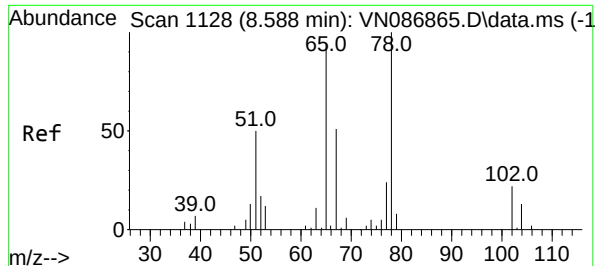
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#32
1,1,1-Trichloroethane
Concen: 19.033 ug/l
RT: 8.182 min Scan# 1059
Delta R.T. 0.006 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion: 97 Resp: 74861
Ion Ratio Lower Upper
97 100
99 64.2 52.0 78.0
61 47.9 35.9 53.9





#33

1,2-Dichloroethane-d4

Concen: 47.075 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBS02

Tgt Ion: 65 Resp: 13034

Ion Ratio Lower Upper

65 100

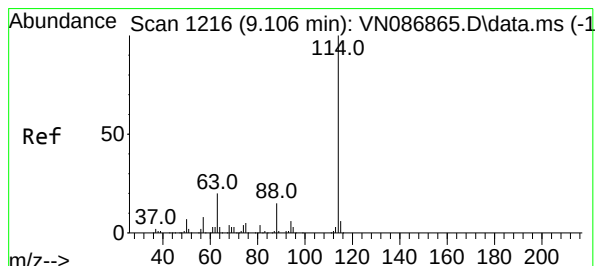
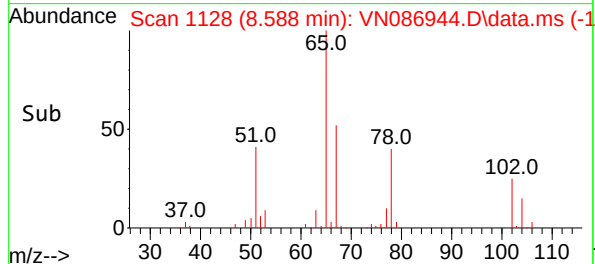
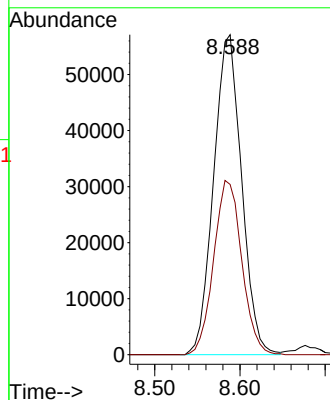
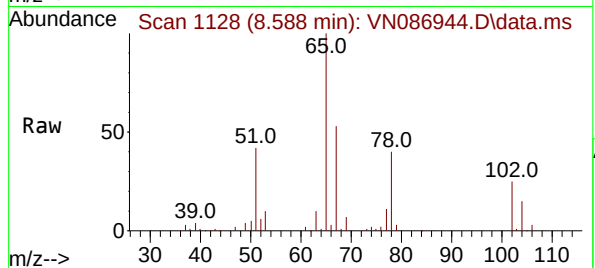
67 54.7 0.0 105.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

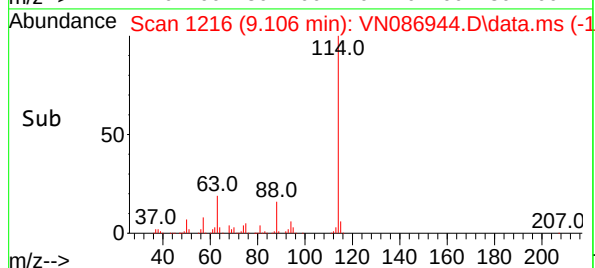
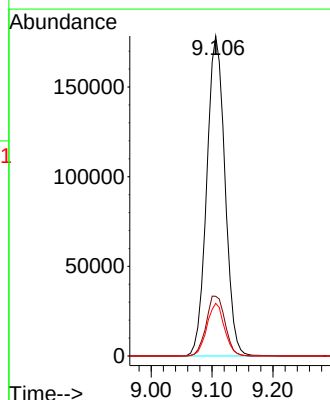
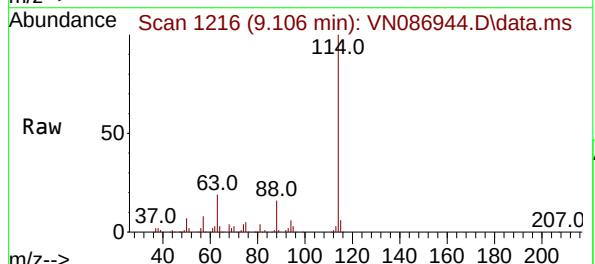
Tgt Ion:114 Resp: 370524

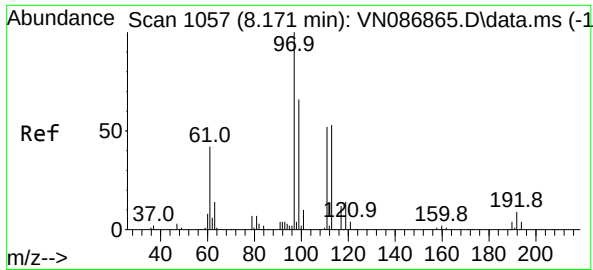
Ion Ratio Lower Upper

114 100

63 18.7 0.0 39.6

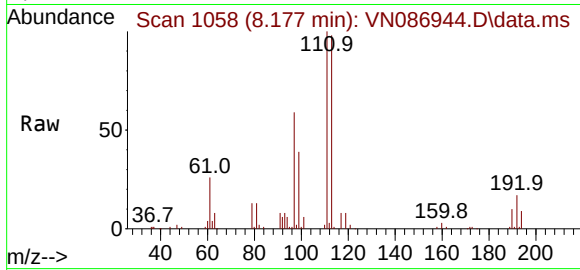
88 16.4 0.0 30.2





#35
Dibromofluoromethane
Concen: 51.096 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

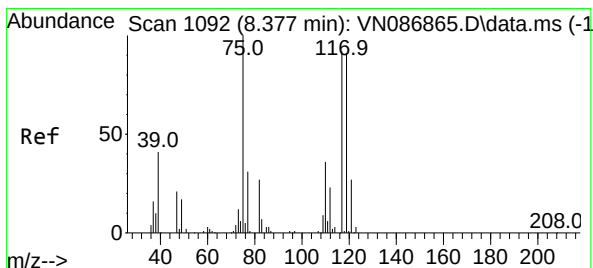
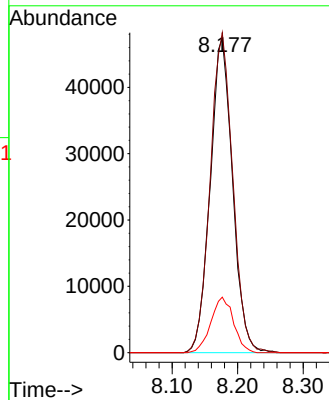
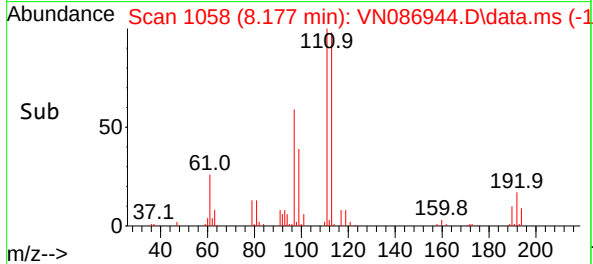
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02



Tgt Ion: 113 Resp: 112198
Ion Ratio Lower Upper
113 100
111 102.8 84.2 126.2
192 17.9 14.2 21.4

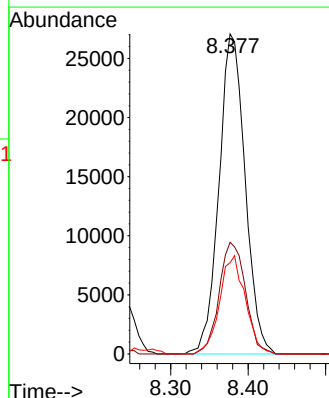
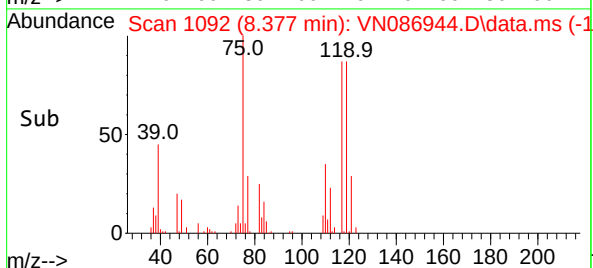
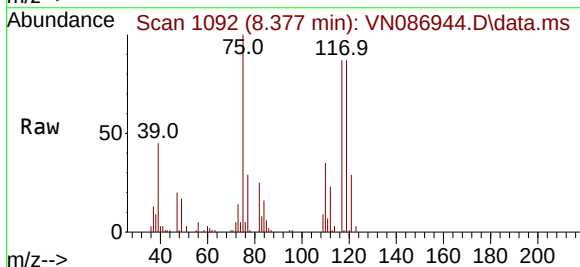
Manual Integrations
APPROVED

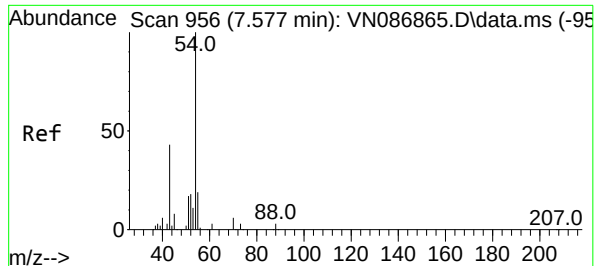
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#36
1,1-Dichloropropene
Concen: 19.431 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion: 75 Resp: 63577
Ion Ratio Lower Upper
75 100
110 35.1 17.6 52.9
77 30.1 25.3 37.9





#37

Ethyl Acetate

Concen: 19.306 ug/l

RT: 7.571 min Scan# 90

Delta R.T. -0.006 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBS02

Tgt Ion: 43 Resp: 8041

Ion Ratio Lower Upper

43 100

61 15.4 12.1 18.1

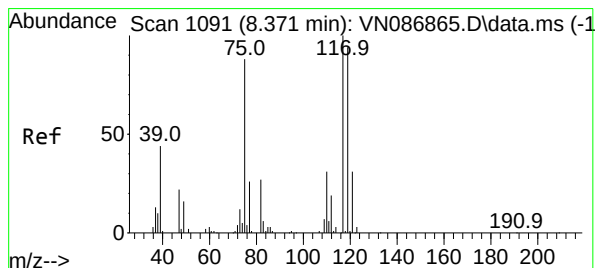
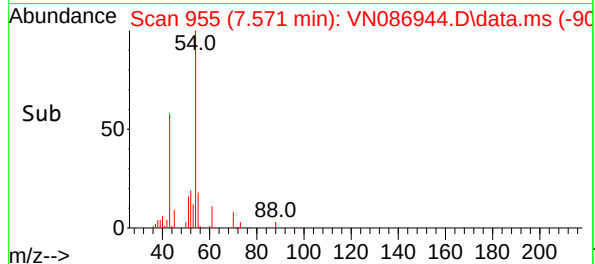
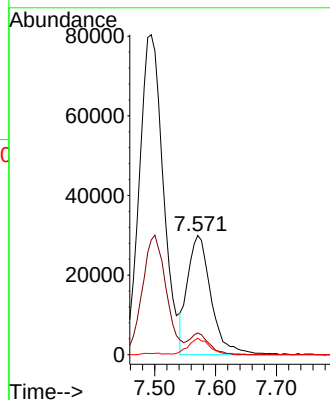
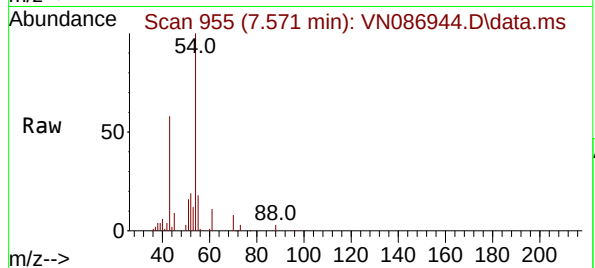
70 12.3 9.8 14.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#38

Carbon Tetrachloride

Concen: 19.222 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

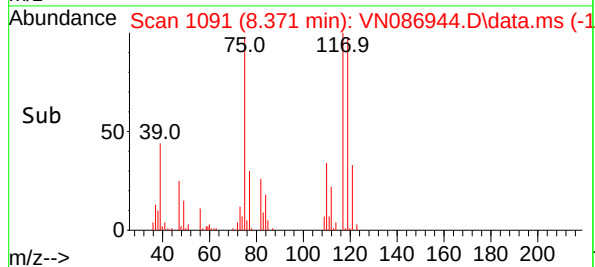
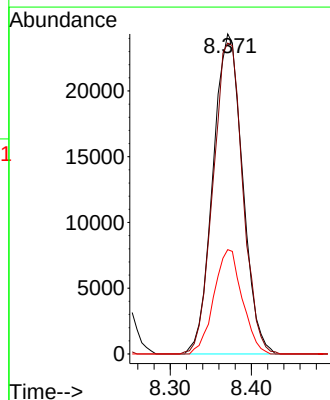
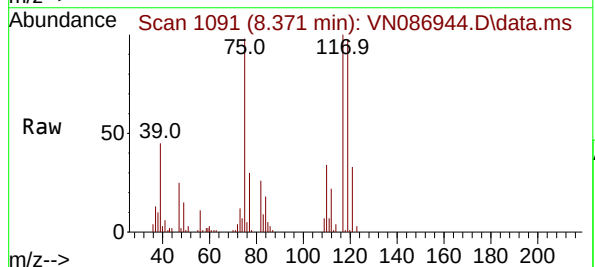
Tgt Ion:117 Resp: 61747

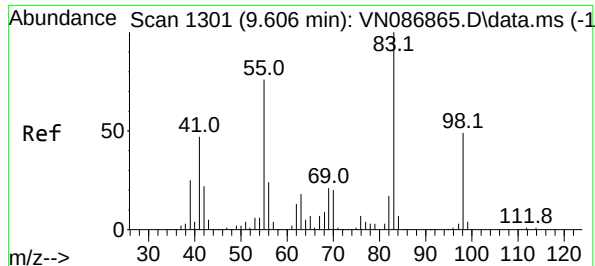
Ion Ratio Lower Upper

117 100

119 97.1 75.0 112.6

121 32.6 24.9 37.3





#39

Methylcyclohexane

Concen: 16.947 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBS02

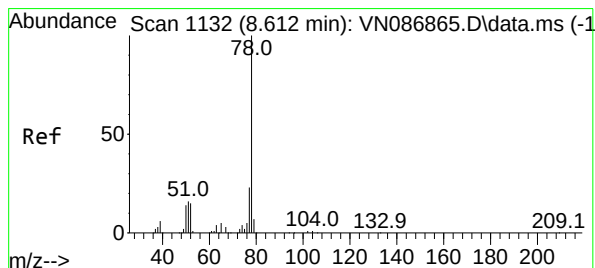
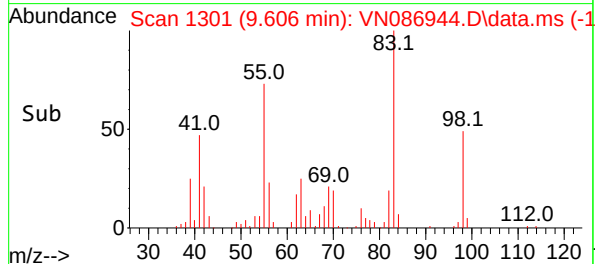
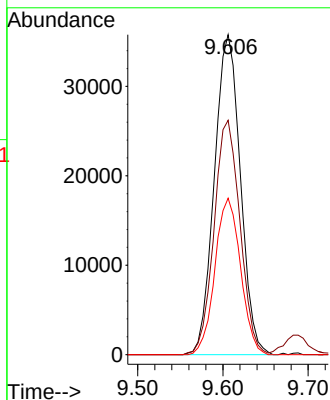
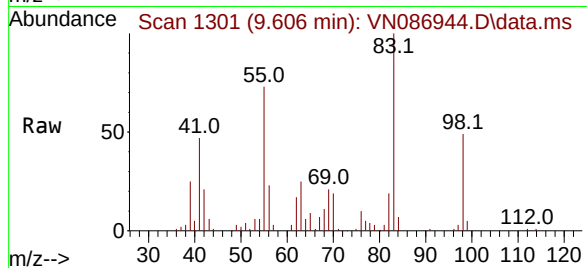
Tgt Ion:	83	Resp:	7597
Ion	Ratio	Lower	Upper
83	100		
55	73.2	61.0	91.6
98	48.9	38.9	58.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#40

Benzene

Concen: 19.277 ug/l

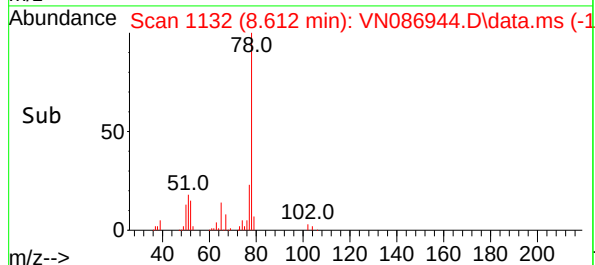
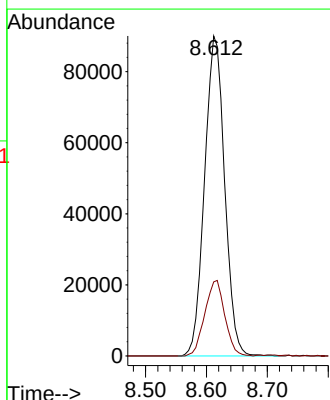
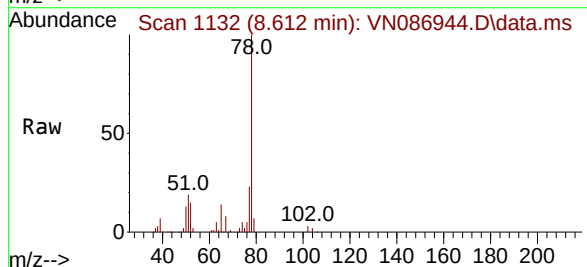
RT: 8.612 min Scan# 1132

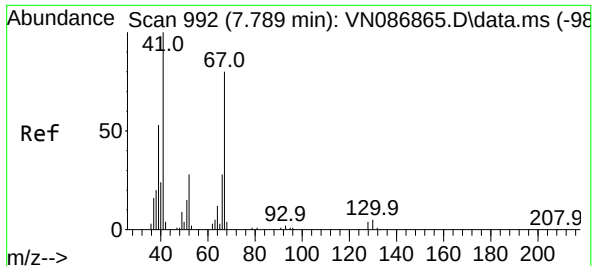
Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

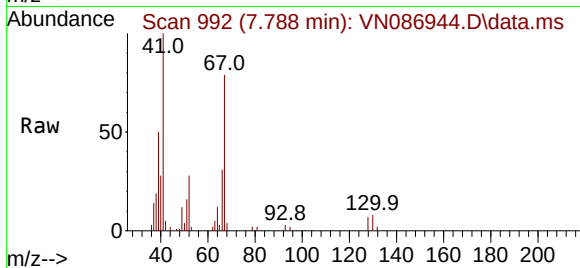
Tgt Ion:	78	Resp:	206255
Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.7	28.1





#41
Methacrylonitrile
Concen: 18.218 ug/l
RT: 7.788 min Scan# 992
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

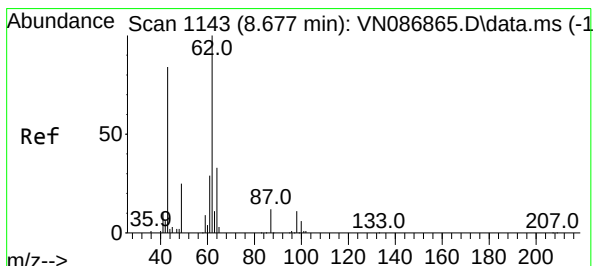
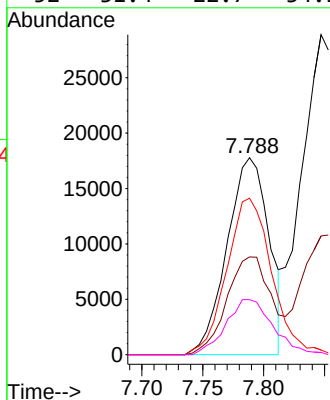
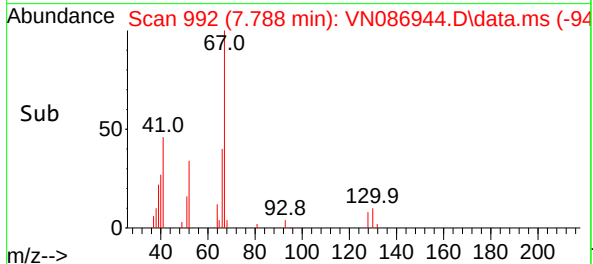
Instrument :
MSVOA_N
Client SampleId :
VN0611WBS02



Tgt Ion	Ratio	Lower	Upper
41	100		
39	53.5	41.2	61.8
67	85.5	61.4	92.2
52	31.4	22.7	34.1

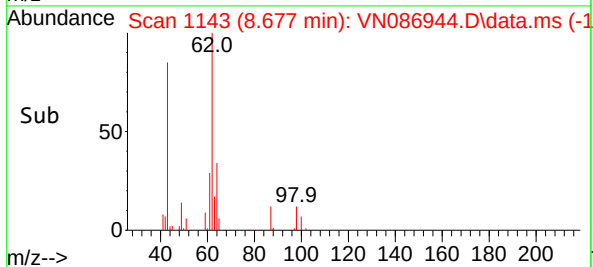
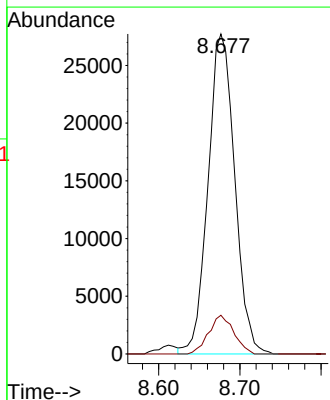
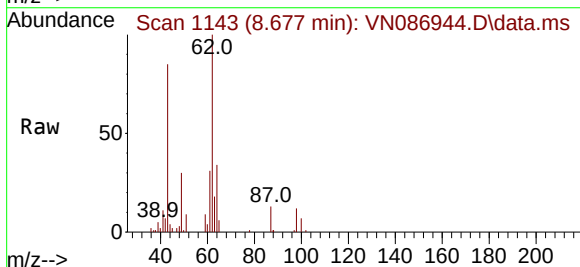
Manual Integrations
APPROVED

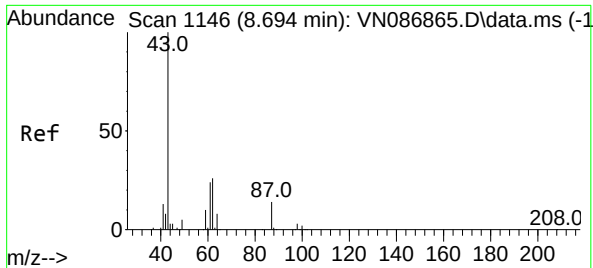
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#42
1,2-Dichloroethane
Concen: 19.530 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

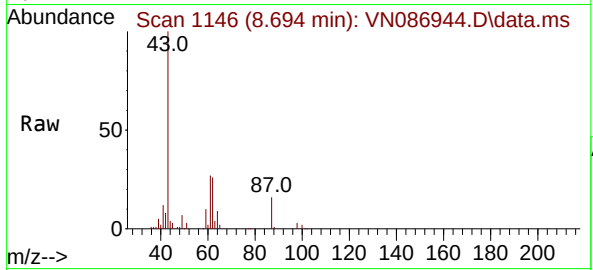
Tgt Ion	Ratio	Lower	Upper
62	100		
98	11.4	0.0	21.2





#43
Isopropyl Acetate
Concen: 18.984 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

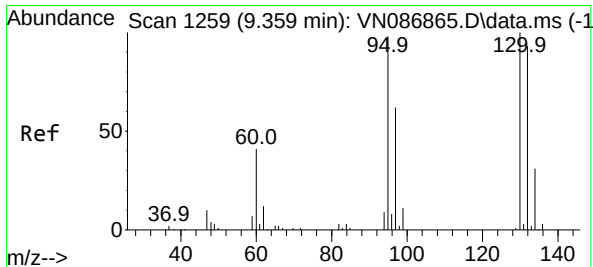
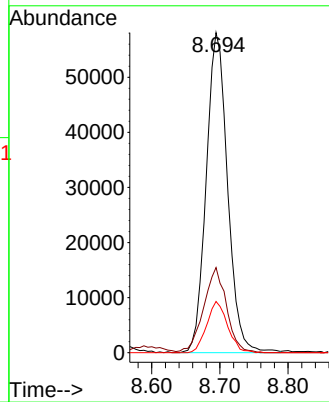
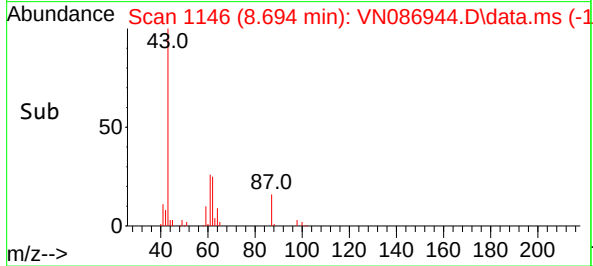
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02



Tgt Ion: 43 Resp: 126914
Ion Ratio Lower Upper
43 100
61 28.5 22.1 33.1
87 15.6 11.8 17.6

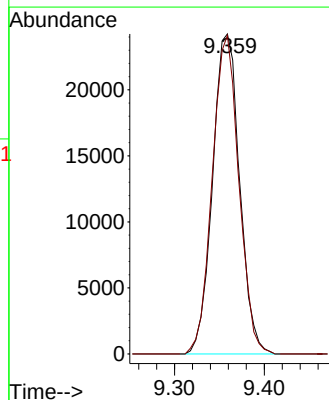
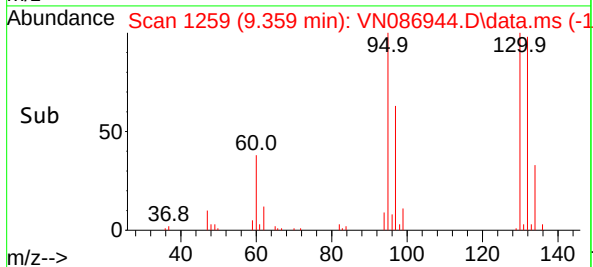
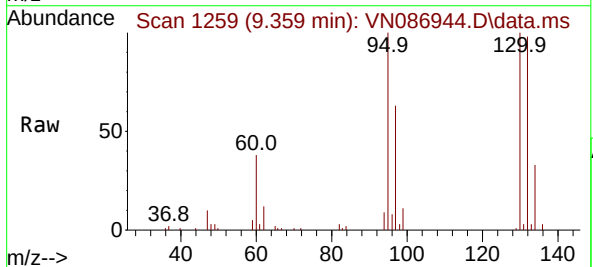
Manual Integrations
APPROVED

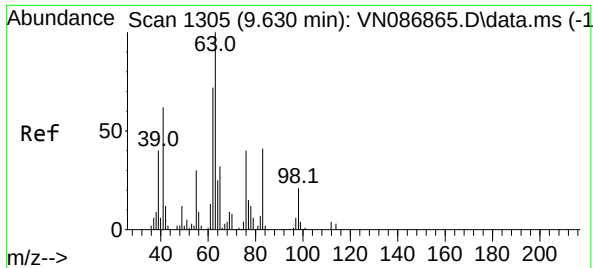
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#44
Trichloroethene
Concen: 19.942 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion:130 Resp: 50593
Ion Ratio Lower Upper
130 100
95 99.6 0.0 196.2





#45

1,2-Dichloropropane

Concen: 19.628 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. -0.006 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBS02

Tgt Ion: 63 Resp: 5109

Ion Ratio Lower Upper

63 100

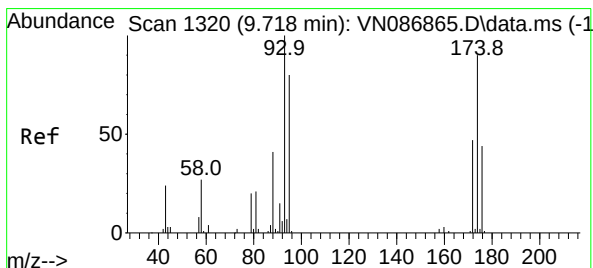
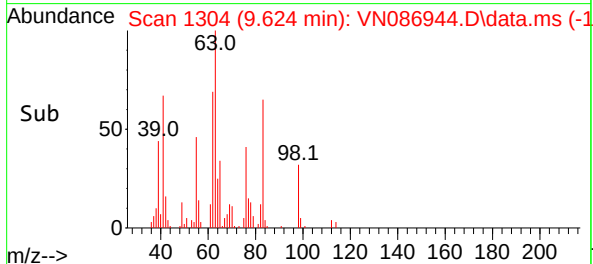
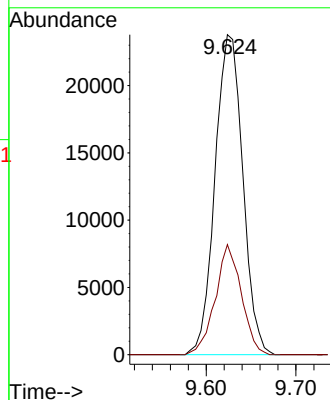
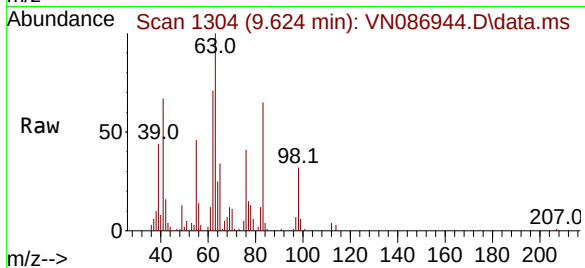
65 34.4 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#46

Dibromomethane

Concen: 20.093 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. -0.006 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

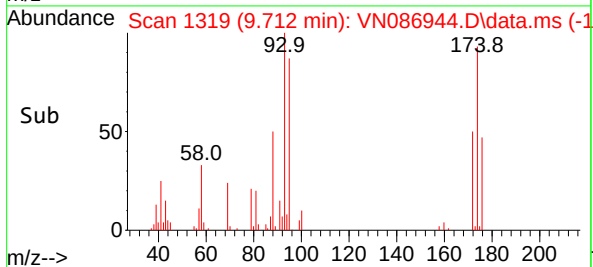
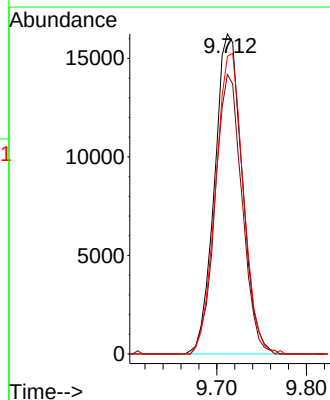
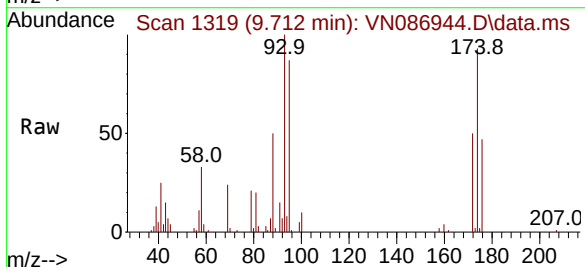
Tgt Ion: 93 Resp: 34741

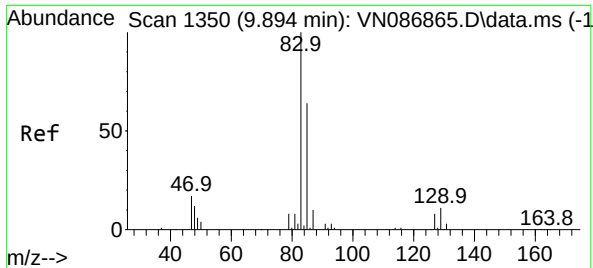
Ion Ratio Lower Upper

93 100

95 85.1 67.1 100.7

174 94.0 74.2 111.4





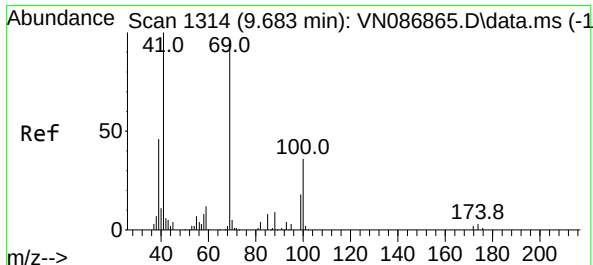
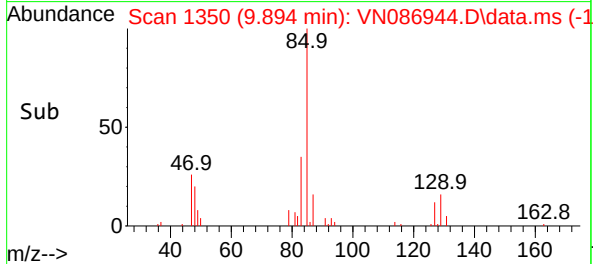
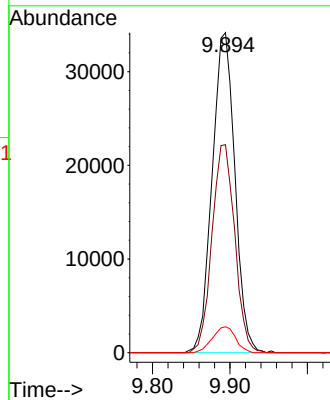
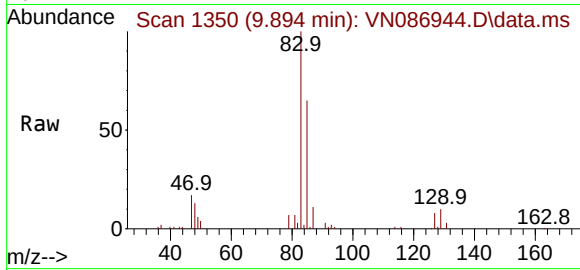
#47
Bromodichloromethane
Concen: 19.634 ug/l
RT: 9.894 min Scan# 1350
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Tgt Ion: 83 Resp: 6984
Ion Ratio Lower Upper
83 100
85 65.0 50.9 76.3
127 8.1 6.6 10.0

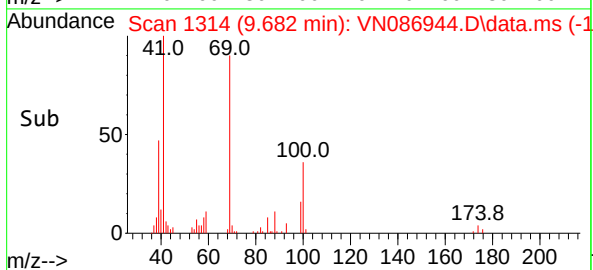
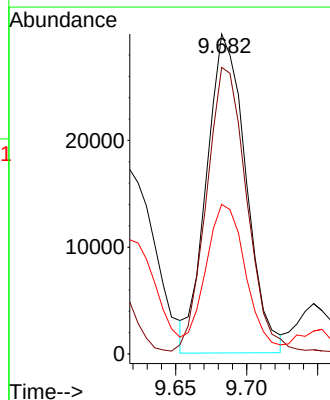
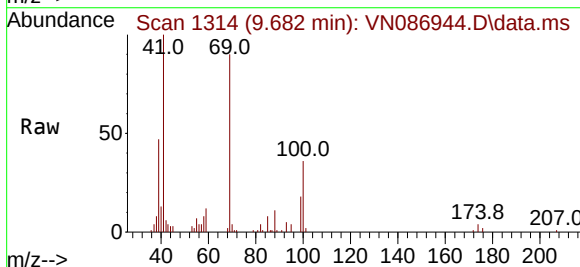
Manual Integrations
APPROVED

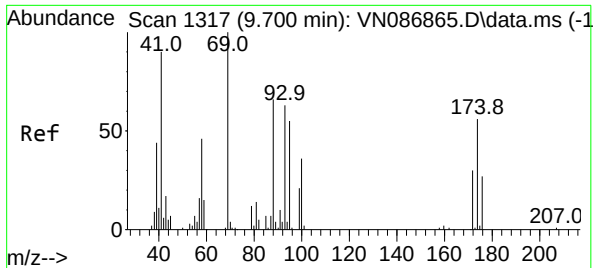
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#48
Methyl methacrylate
Concen: 18.771 ug/l
RT: 9.682 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion: 41 Resp: 57757
Ion Ratio Lower Upper
41 100
69 93.3 74.6 112.0
39 48.5 40.2 60.4





#49

1,4-Dioxane

Concen: 409.347 ug/l

RT: 9.706 min Scan# 1317

Delta R.T. 0.006 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBS02

Tgt Ion: 88 Resp: 22914

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

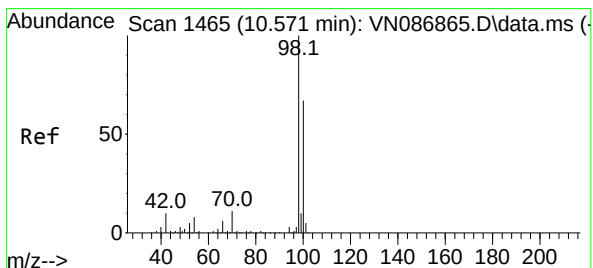
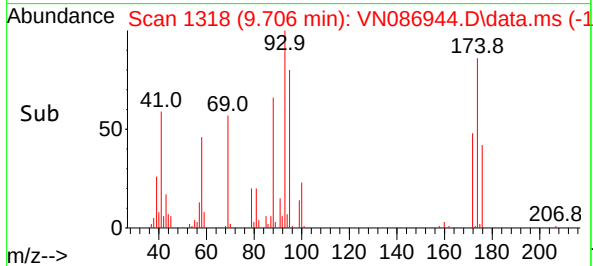
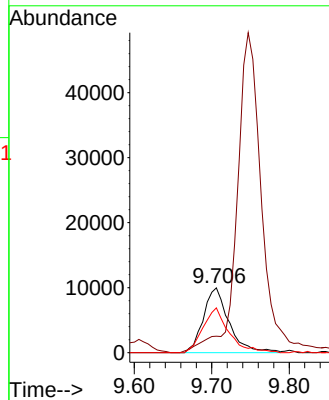
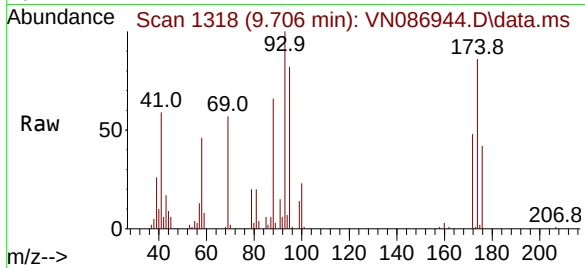
58 69.9 57.7 86.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#50

Toluene-d8

Concen: 48.706 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN086944.D

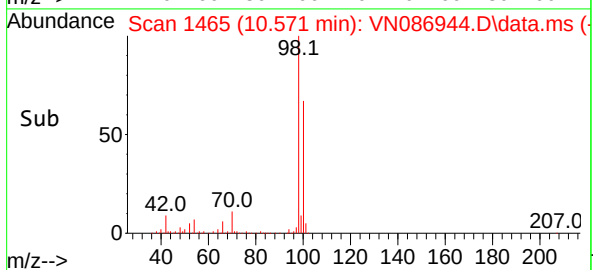
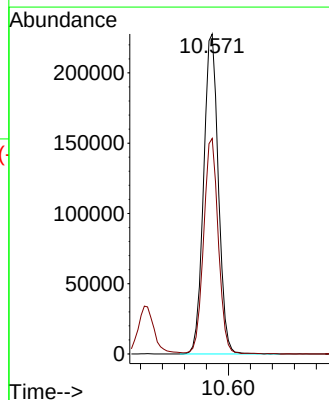
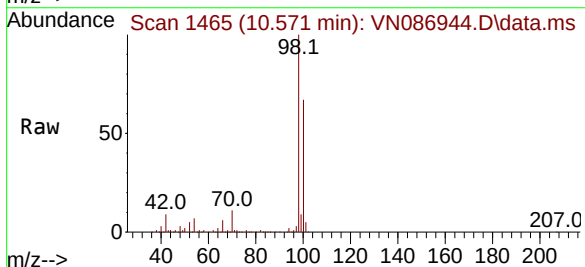
Acq: 11 Jun 2025 13:27

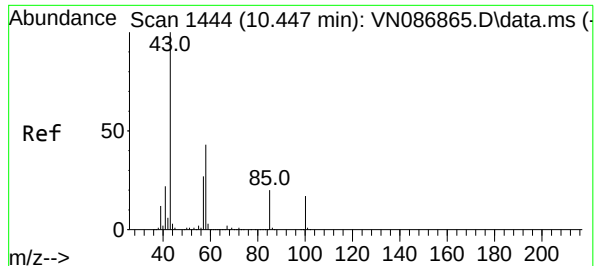
Tgt Ion: 98 Resp: 423380

Ion Ratio Lower Upper

98 100

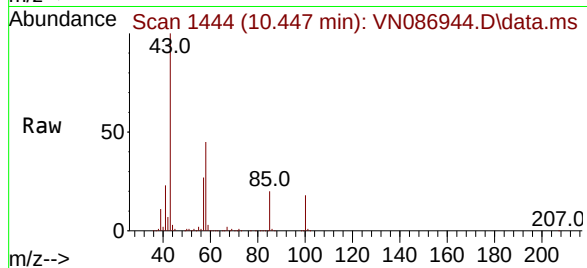
100 67.3 53.4 80.0





#51
4-Methyl-2-Pentanone
Concen: 97.997 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

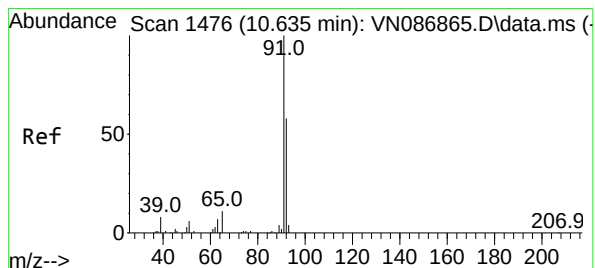
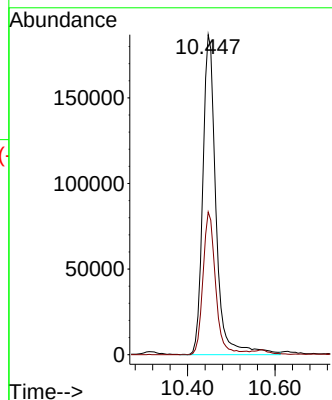
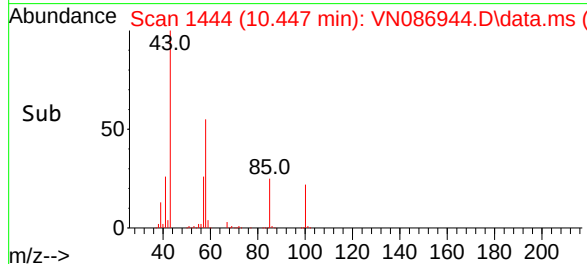
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02



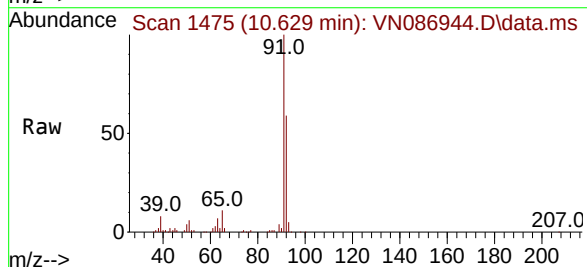
Tgt Ion: 43 Resp: 394390
Ion Ratio Lower Upper
43 100
58 42.4 34.2 51.4

Manual Integrations
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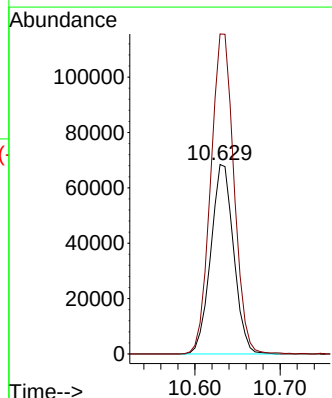
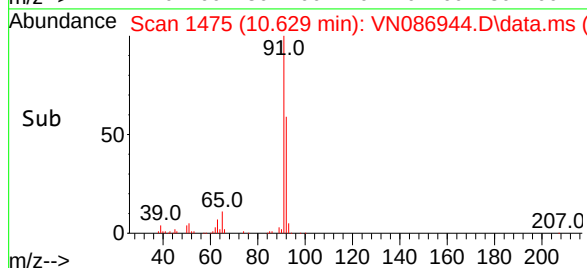
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

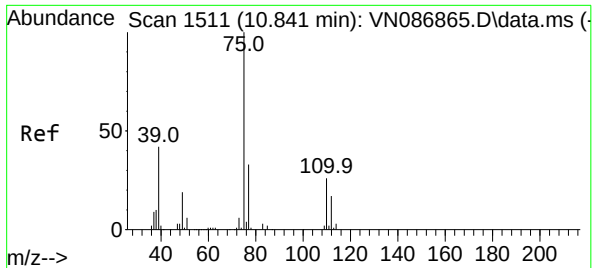


#52
Toluene
Concen: 19.509 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27



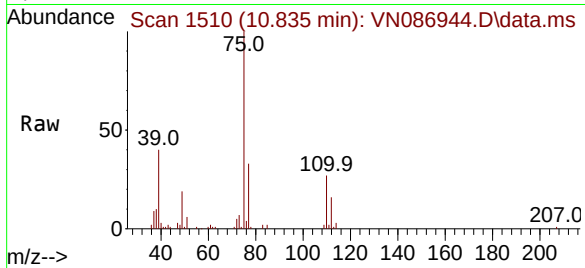
Tgt Ion: 92 Resp: 127563
Ion Ratio Lower Upper
92 100
91 171.7 136.5 204.7





#53
t-1,3-Dichloropropene
Concen: 19.917 ug/l
RT: 10.835 min Scan# 1510
Delta R.T. -0.006 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

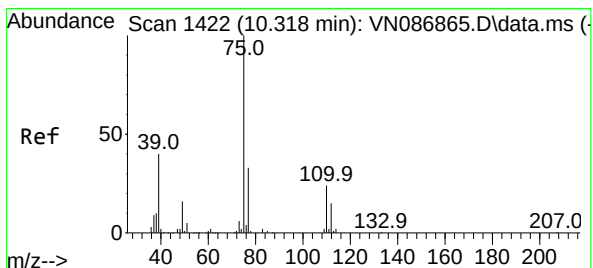
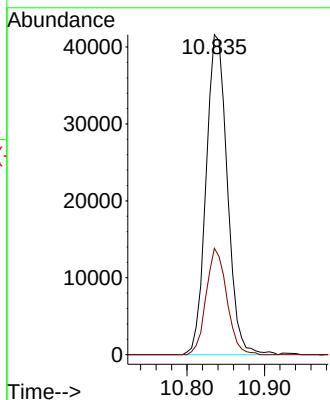
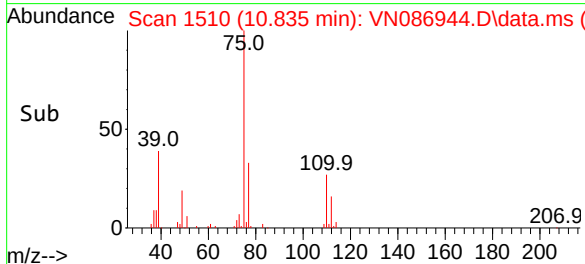
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02



Tgt Ion: 75 Resp: 79224
Ion Ratio Lower Upper
75 100
77 33.3 26.4 39.6

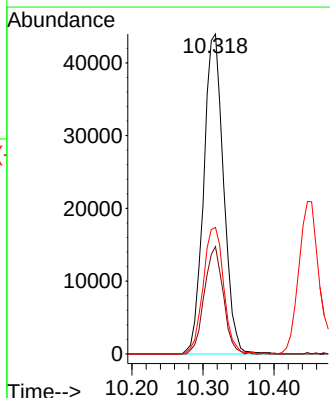
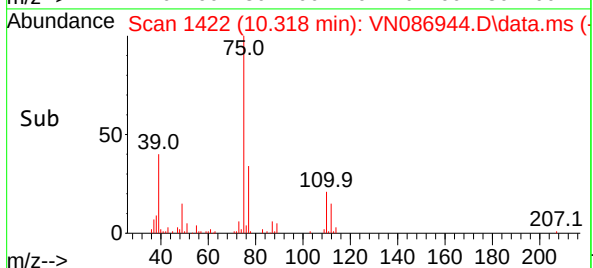
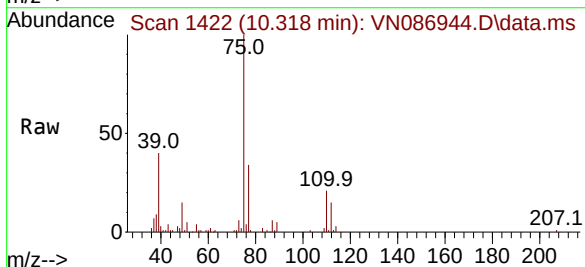
Manual Integrations
APPROVED

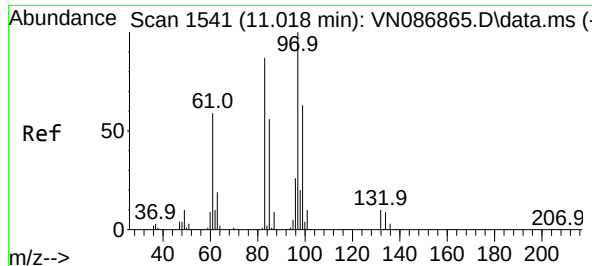
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#54
cis-1,3-Dichloropropene
Concen: 20.109 ug/l
RT: 10.318 min Scan# 1422
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

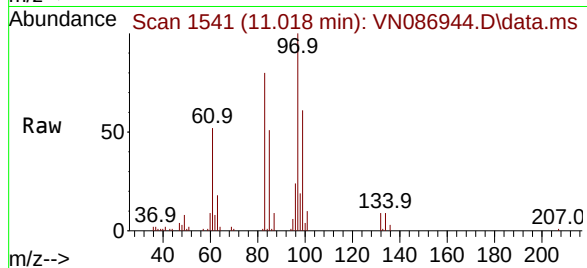
Tgt Ion: 75 Resp: 85586
Ion Ratio Lower Upper
75 100
77 33.6 26.2 39.4
39 39.5 32.3 48.5





#55
1,1,2-Trichloroethane
Concen: 20.438 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

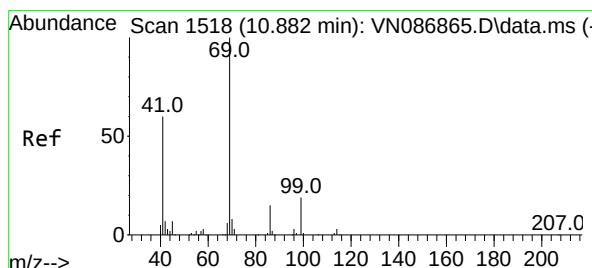
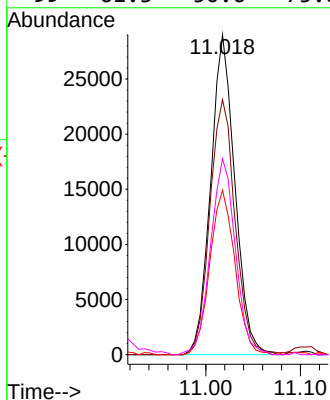
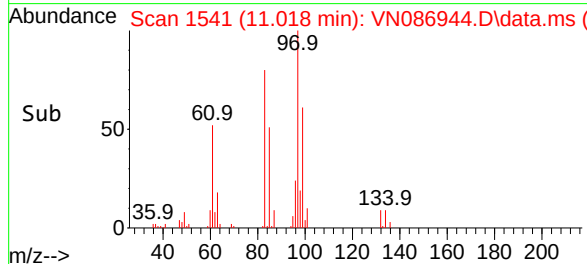
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02



Tgt Ion: 97 Resp: 5142
Ion Ratio Lower Upper
97 100
83 79.7 69.7 104.5
85 51.4 45.1 67.7
99 61.3 50.6 75.8

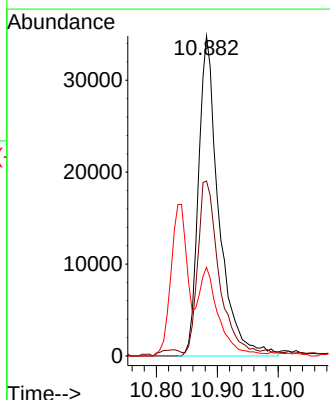
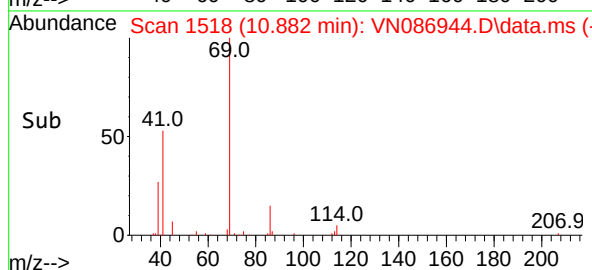
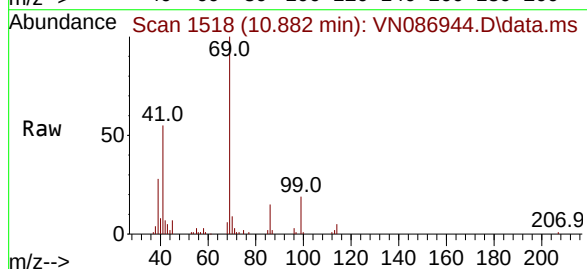
Manual Integrations
APPROVED

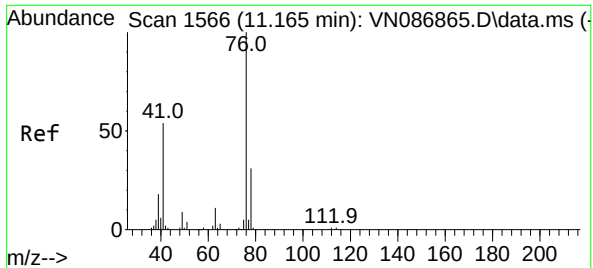
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#56
Ethyl methacrylate
Concen: 20.198 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion: 69 Resp: 80942
Ion Ratio Lower Upper
69 100
41 55.5 47.2 70.8
39 24.3 23.0 34.6





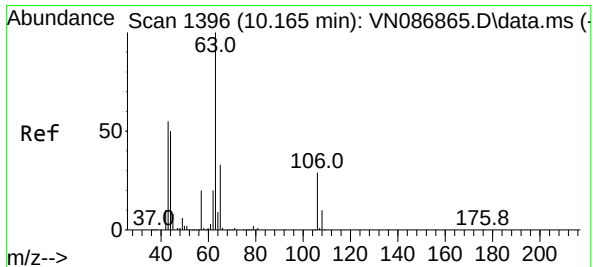
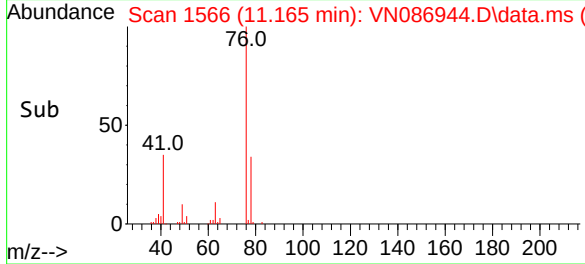
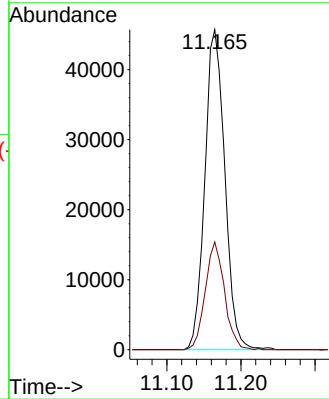
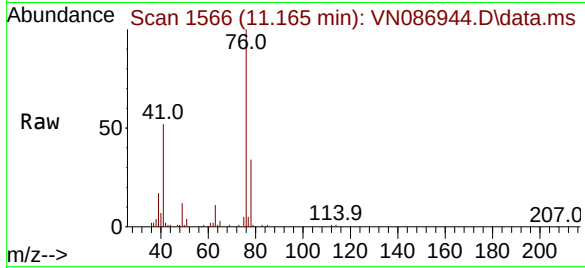
#57
1,3-Dichloropropane
Concen: 19.613 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Tgt Ion: 76 Resp: 85602
Ion Ratio Lower Upper
76 100
78 32.4 25.3 37.9

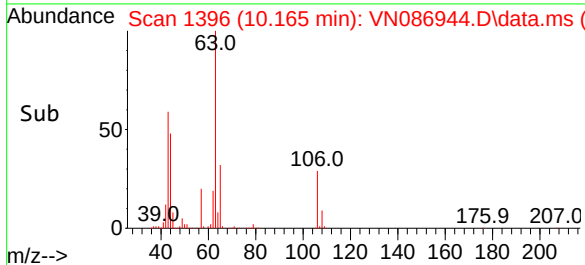
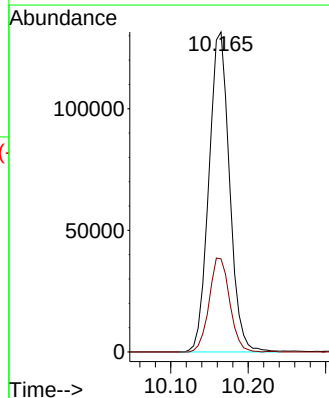
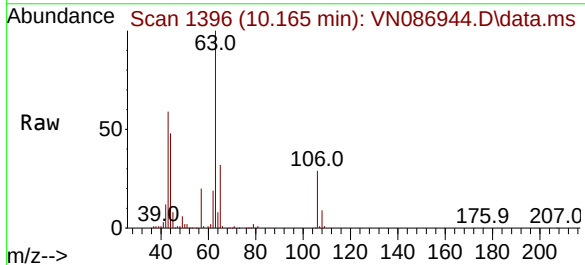
Manual Integrations
APPROVED

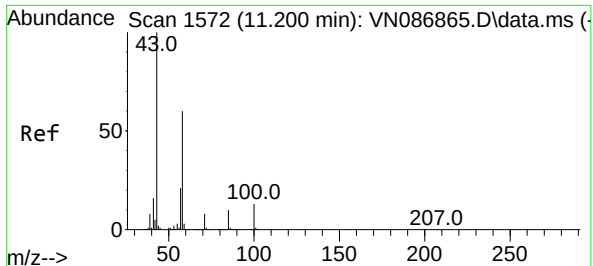
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#58
2-Chloroethyl Vinyl ether
Concen: 101.910 ug/l
RT: 10.165 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

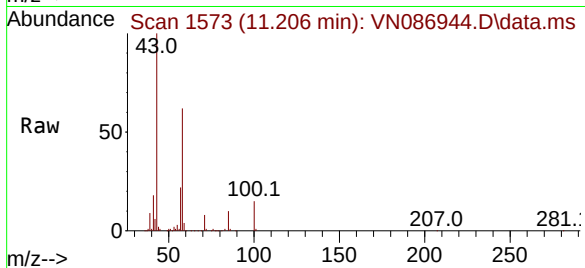
Tgt Ion: 63 Resp: 243584
Ion Ratio Lower Upper
63 100
106 29.2 23.0 34.6





#59
2-Hexanone
Concen: 89.210 ug/l
RT: 11.206 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

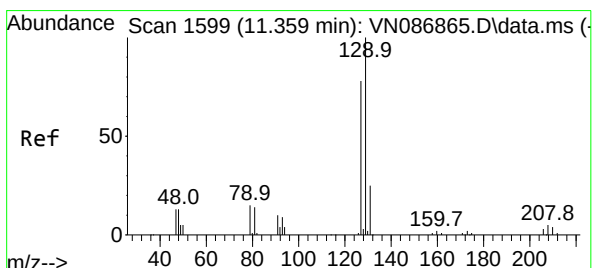
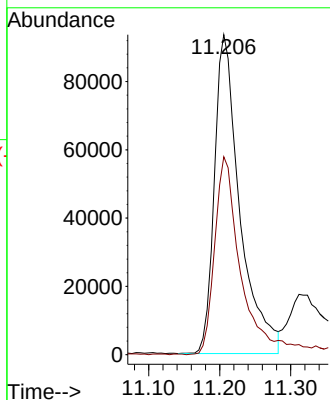
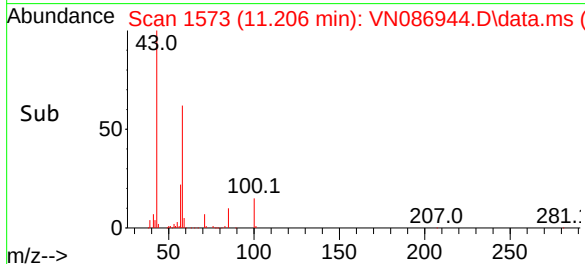
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02



Tgt Ion: 43 Resp: 231264
Ion Ratio Lower Upper
43 100
58 65.0 30.4 91.3

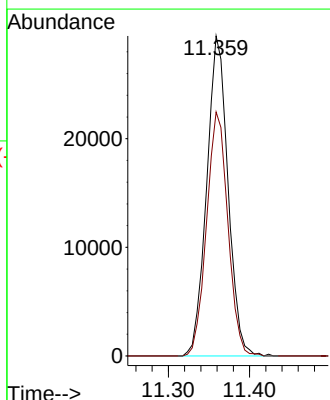
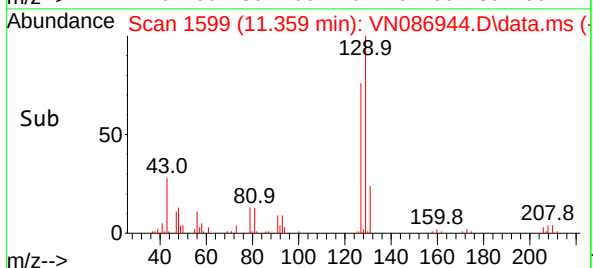
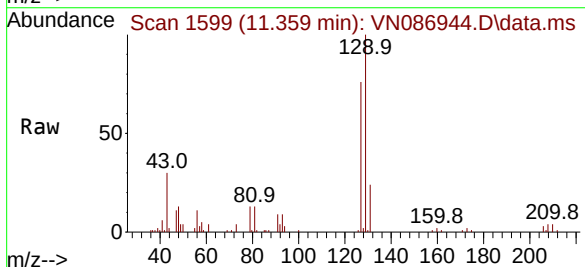
Manual Integrations
APPROVED

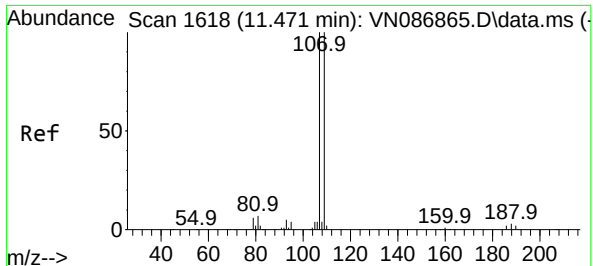
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#60
Dibromochloromethane
Concen: 20.468 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

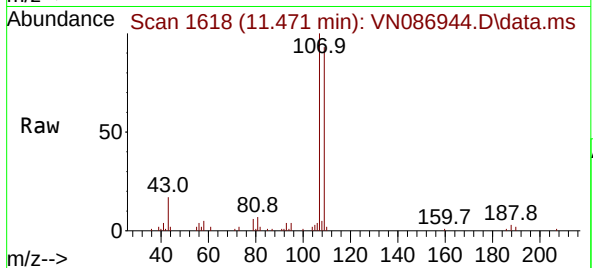
Tgt Ion:129 Resp: 53655
Ion Ratio Lower Upper
129 100
127 76.3 38.6 115.8





#61
1,2-Dibromoethane
Concen: 19.711 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

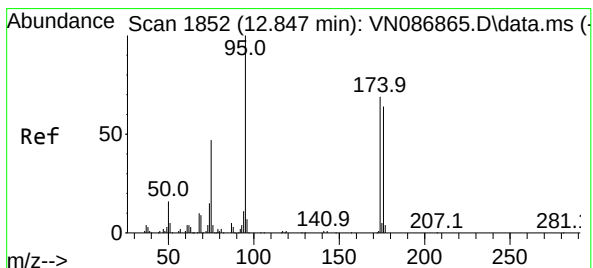
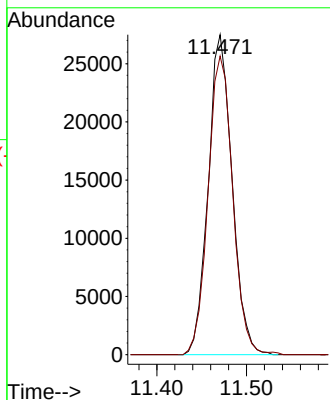
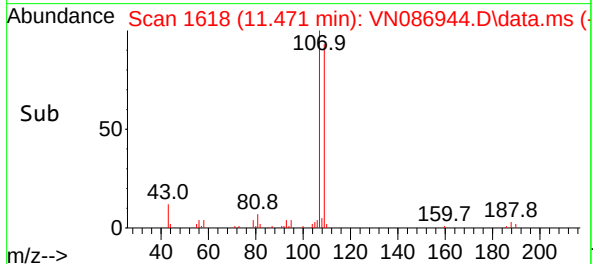
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02



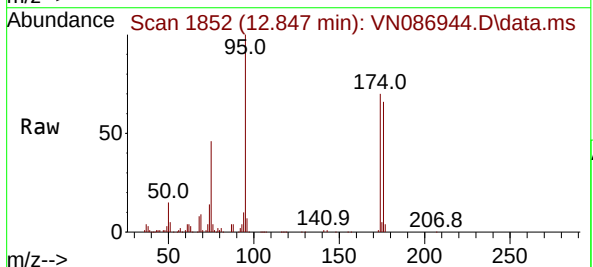
Tgt Ion:107 Resp: 5083
Ion Ratio Lower Upper
107 100
109 96.3 76.3 114.5

Manual Integrations
APPROVED

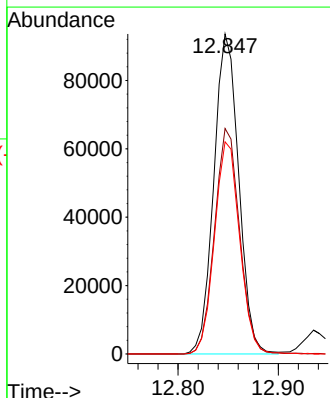
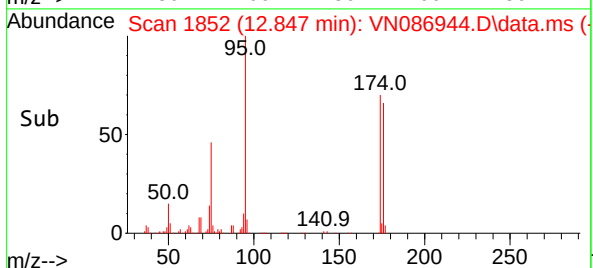
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

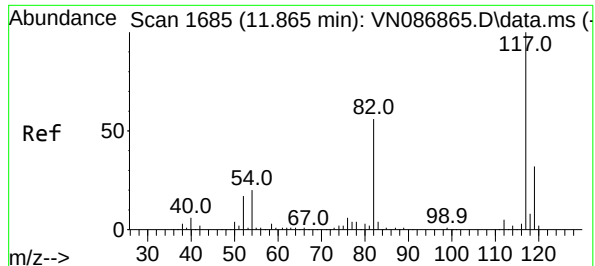


#62
4-Bromofluorobenzene
Concen: 49.951 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27



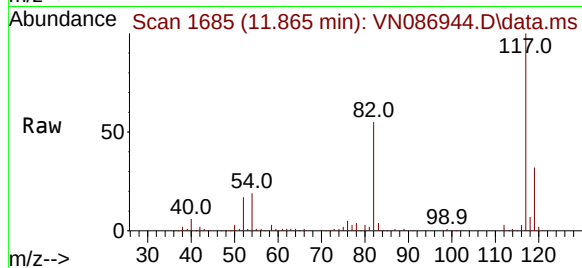
Tgt Ion: 95 Resp: 161321
Ion Ratio Lower Upper
95 100
174 71.0 0.0 141.8
176 67.2 0.0 132.6





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

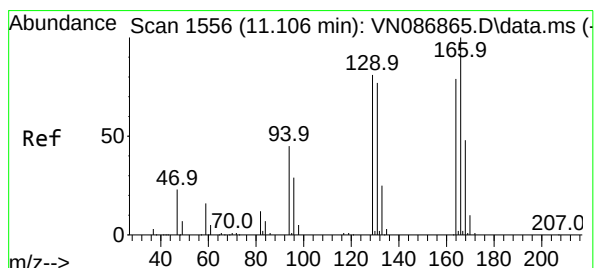
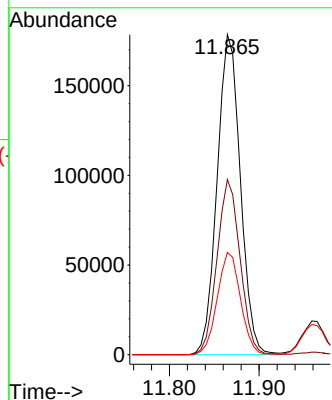
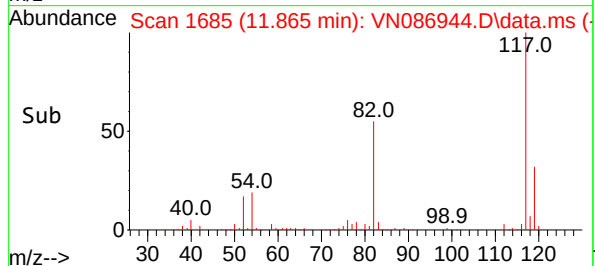
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02



Tgt Ion:117 Resp: 321188
Ion Ratio Lower Upper
117 100
82 54.7 44.6 67.0
119 31.9 25.5 38.3

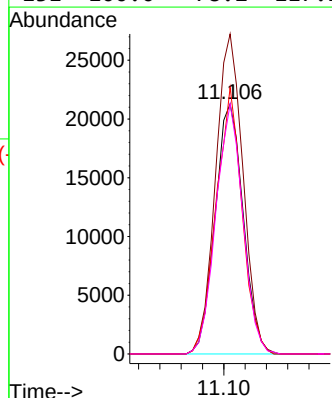
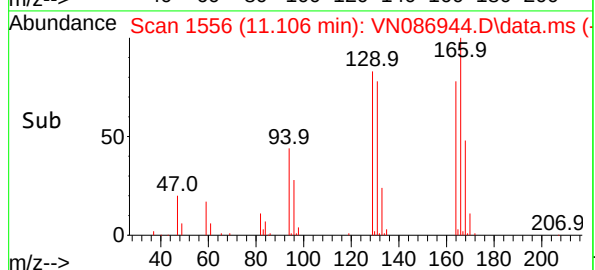
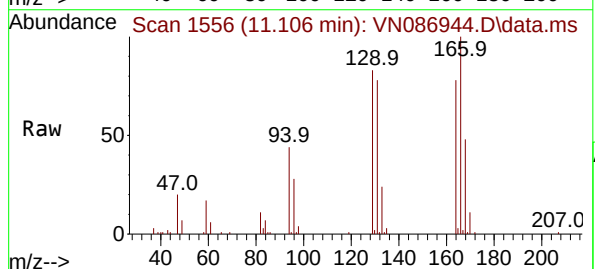
Manual Integrations
APPROVED

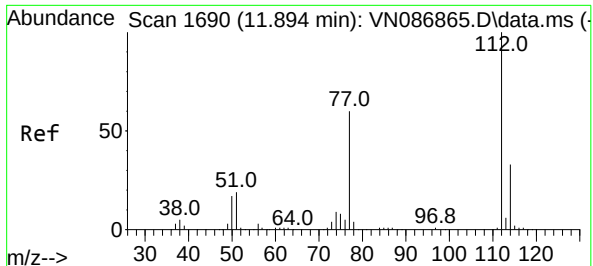
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#64
Tetrachloroethene
Concen: 19.150 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion:164 Resp: 38926
Ion Ratio Lower Upper
164 100
166 128.0 101.8 152.8
129 106.5 83.0 124.4
131 100.0 78.2 117.2





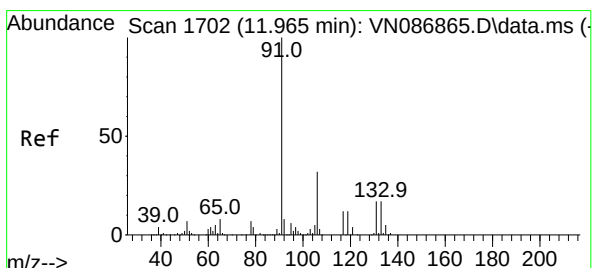
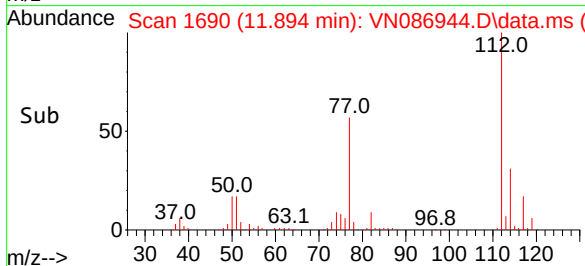
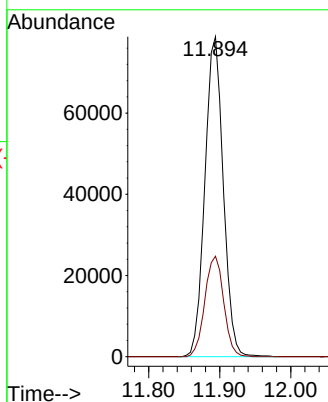
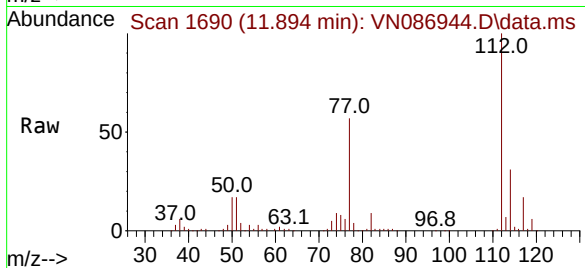
#65
Chlorobenzene
Concen: 20.006 ug/l
RT: 11.894 min Scan# 111
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Tgt Ion:112 Resp: 14172
Ion Ratio Lower Upper
112 100
114 31.4 26.2 39.2

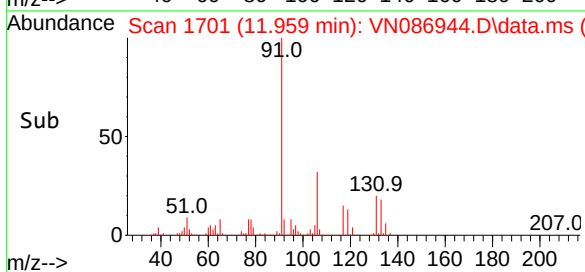
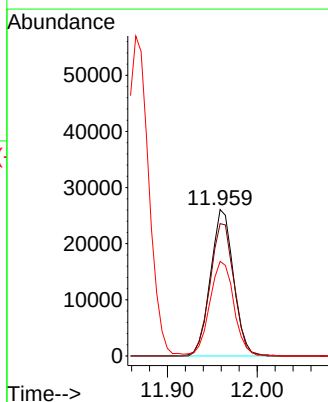
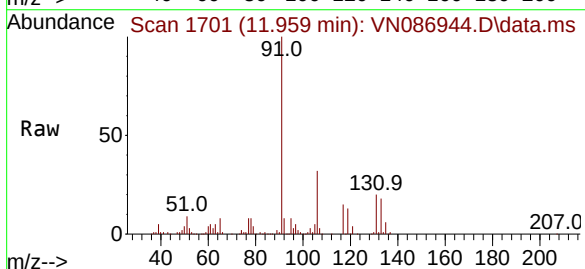
Manual Integrations
APPROVED

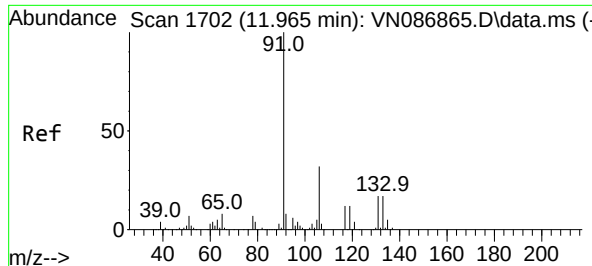
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 20.378 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion:131 Resp: 46404
Ion Ratio Lower Upper
131 100
133 94.2 48.3 144.8
119 68.0 34.0 101.8





#67

Ethyl Benzene

Concen: 19.647 ug/l

RT: 11.965 min Scan# 1702

Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBS02

Tgt Ion: 91 Resp: 23973

Ion Ratio Lower Upper

91 100

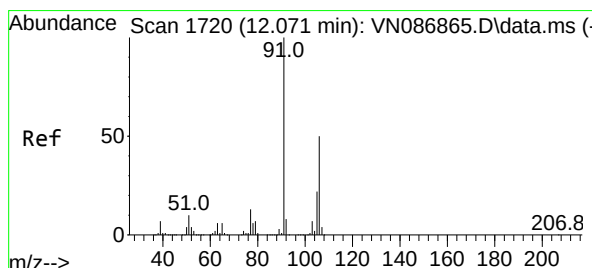
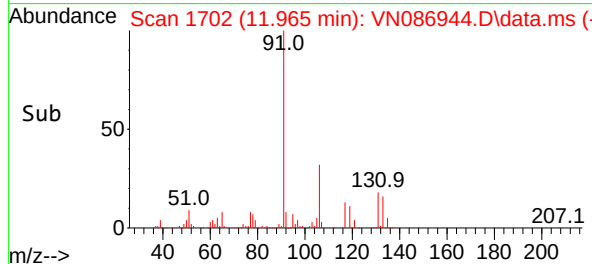
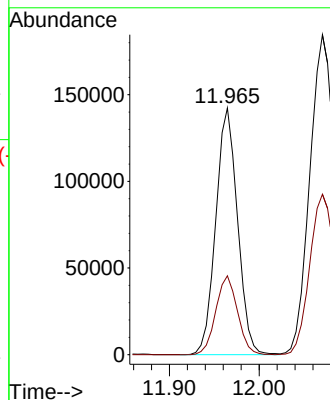
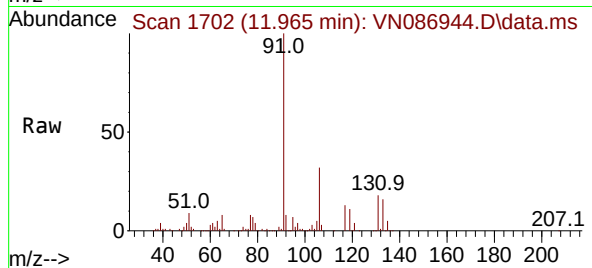
106 31.9 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#68

m/p-Xylenes

Concen: 39.613 ug/l

RT: 12.070 min Scan# 1720

Delta R.T. -0.000 min

Lab File: VN086944.D

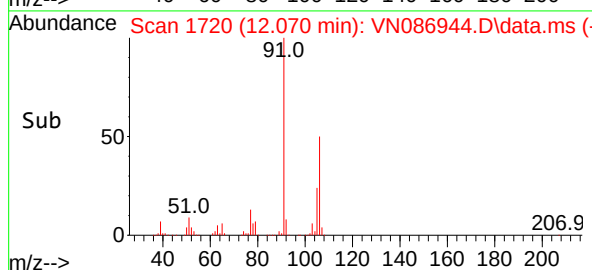
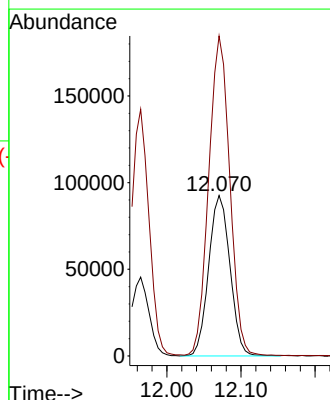
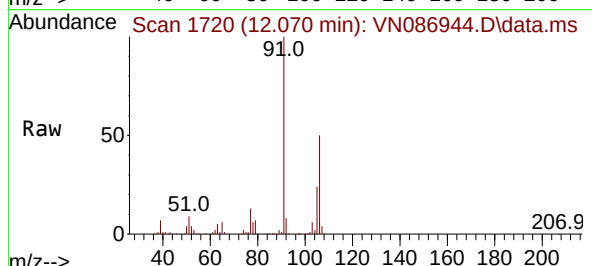
Acq: 11 Jun 2025 13:27

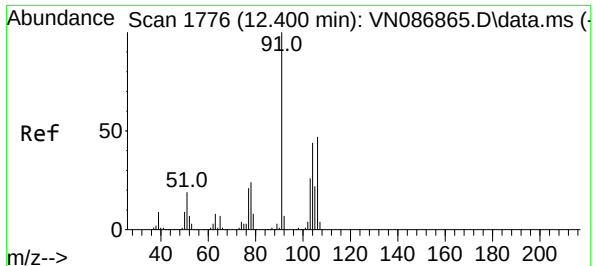
Tgt Ion:106 Resp: 185026

Ion Ratio Lower Upper

106 100

91 197.2 159.4 239.0





#69

o-Xylene

Concen: 20.172 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBS02

Tgt Ion:106 Resp: 90240

Ion Ratio Lower Upper

106 100

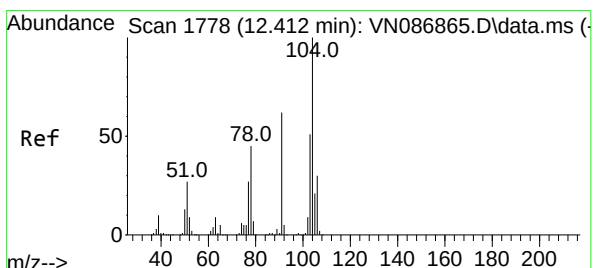
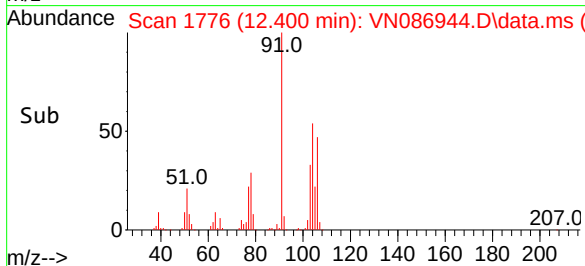
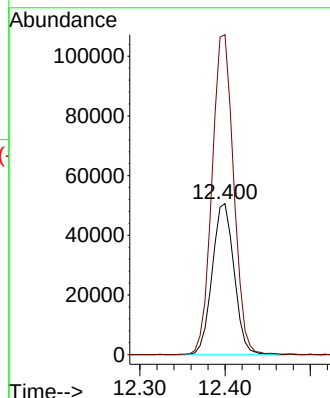
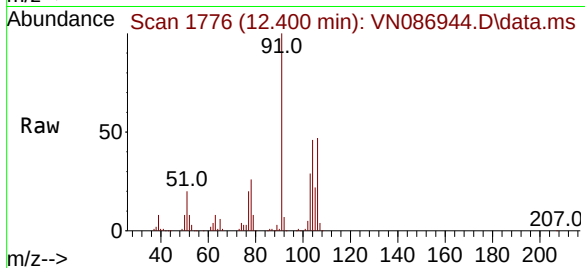
91 210.1 106.1 318.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#70

Styrene

Concen: 20.137 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

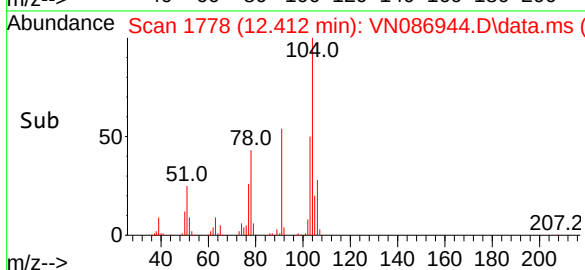
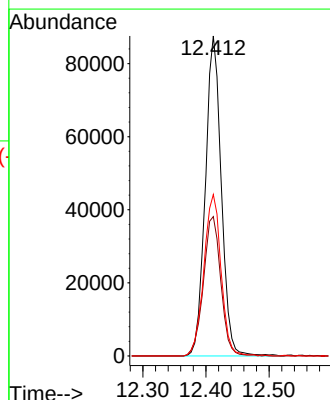
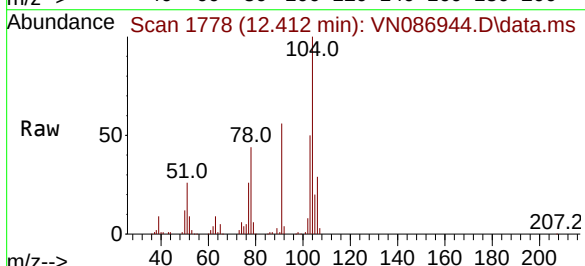
Tgt Ion:104 Resp: 154149

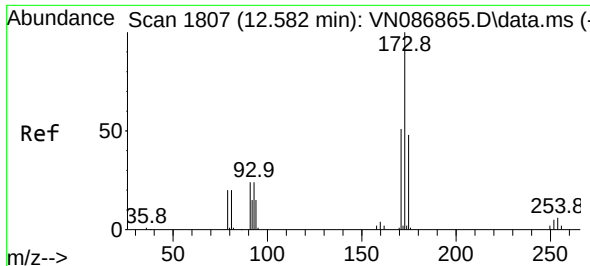
Ion Ratio Lower Upper

104 100

78 47.5 38.5 57.7

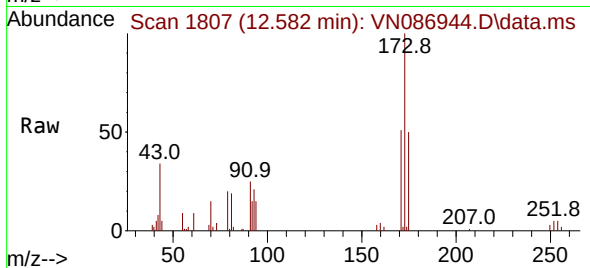
103 54.3 43.1 64.7





#71
Bromoform
Concen: 20.952 ug/l
RT: 12.582 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

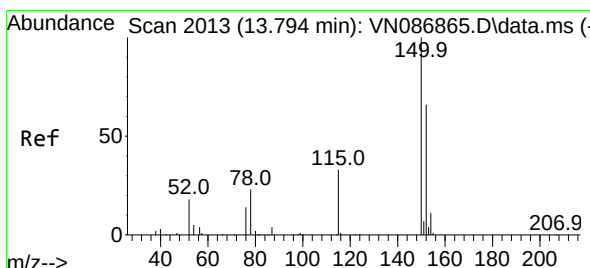
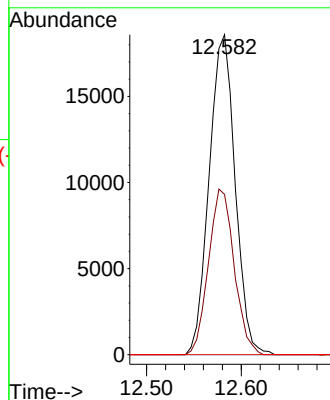
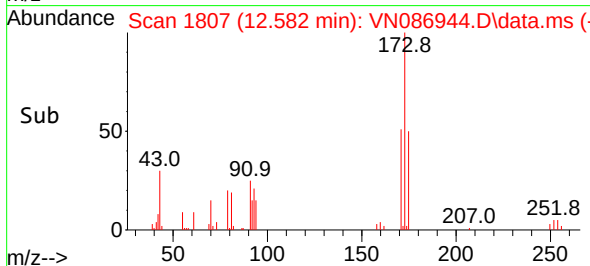
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02



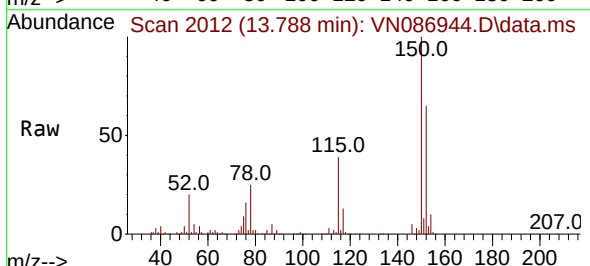
Tgt Ion:173 Resp: 35350
Ion Ratio Lower Upper
173 100
175 51.2 24.1 72.4
254 0.0 0.0 0.0

Manual Integrations
APPROVED

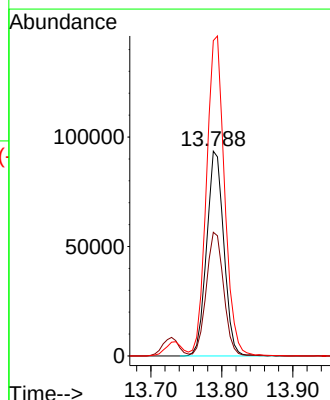
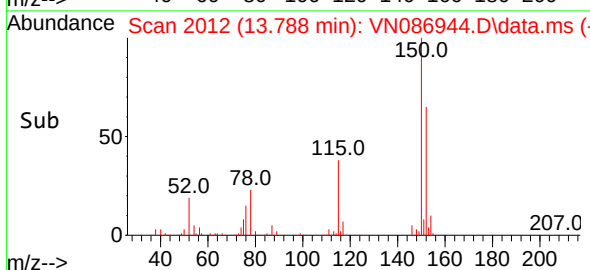
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

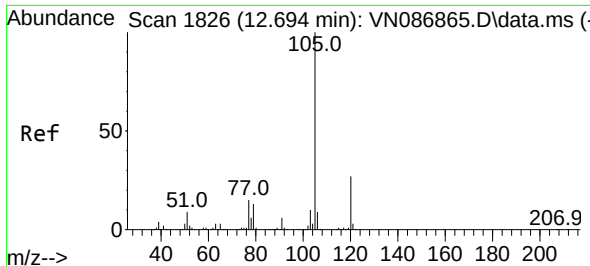


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27



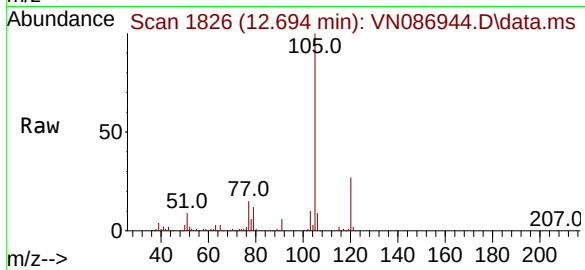
Tgt Ion:152 Resp: 157403
Ion Ratio Lower Upper
152 100
115 61.4 30.1 90.5
150 164.6 0.0 345.0





#73
Isopropylbenzene
Concen: 19.320 ug/l
RT: 12.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

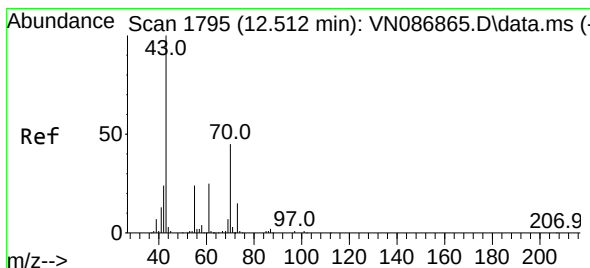
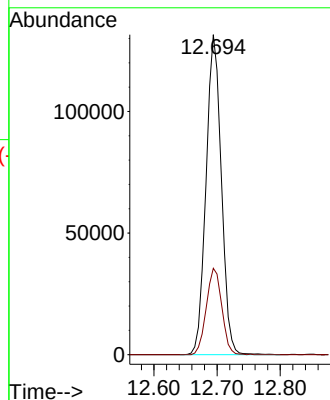
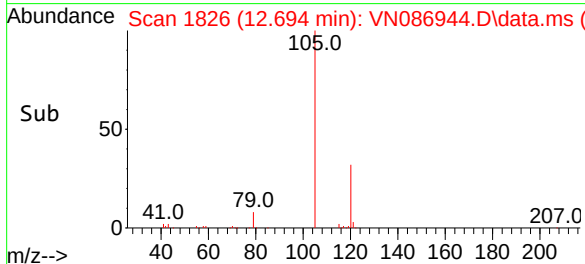
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02



Tgt Ion:105 Resp: 22154
Ion Ratio Lower Upper
105 100
120 27.3 13.5 40.4

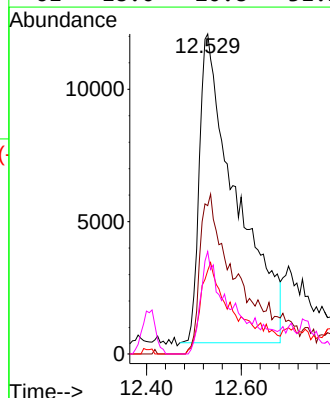
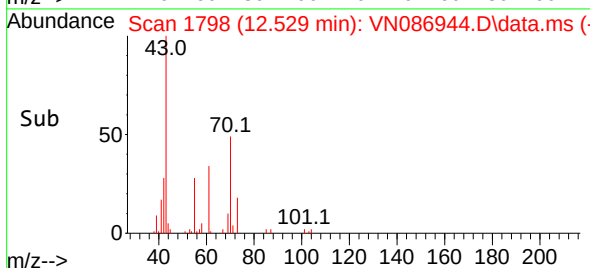
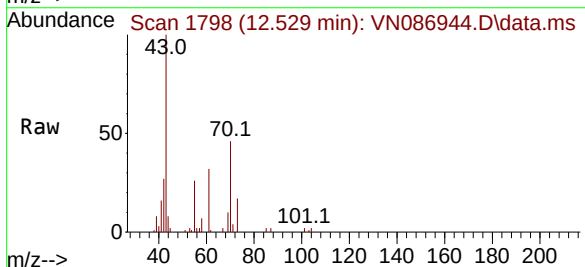
Manual Integrations
APPROVED

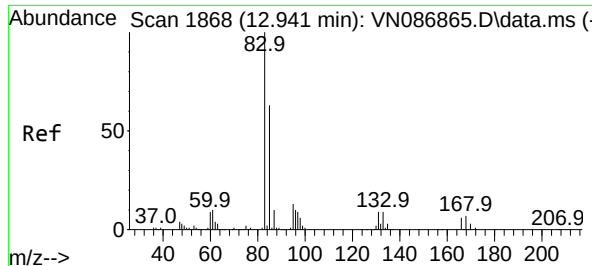
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#74
N-ethyl acetate
Concen: 15.794 ug/l
RT: 12.529 min Scan# 1798
Delta R.T. 0.017 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion: 43 Resp: 63289
Ion Ratio Lower Upper
43 100
70 34.9 37.6 56.4#
55 19.9 19.0 28.6
61 18.0 20.8 31.2#





#75

1,1,2,2-Tetrachloroethane

Concen: 20.973 ug/l

RT: 12.941 min Scan# 1868

Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :

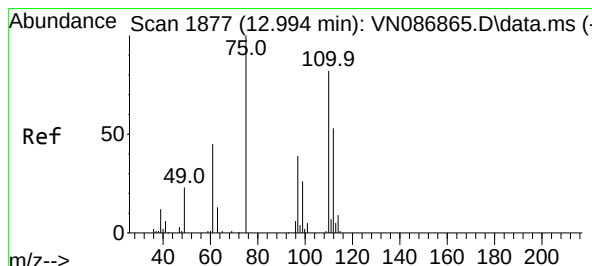
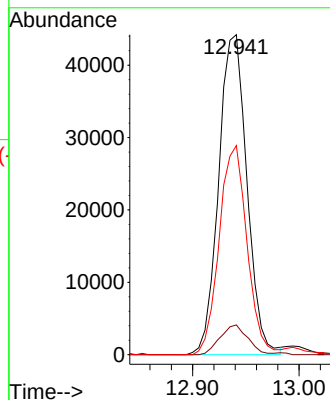
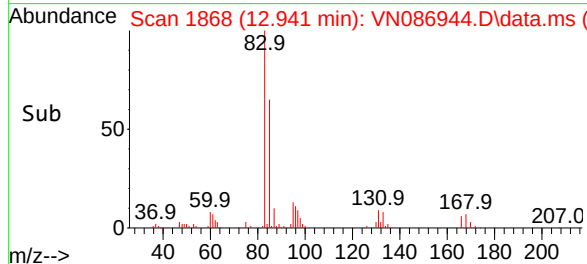
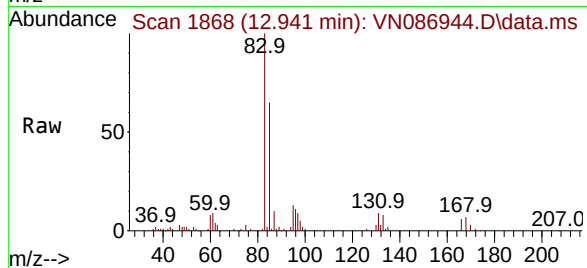
VN0611WBS02

Tgt Ion:	83	Resp:	81470
Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.9	14.7
85	64.3	32.0	96.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#76

1,2,3-Trichloropropane

Concen: 19.132 ug/l m

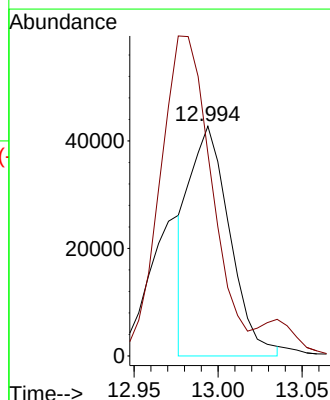
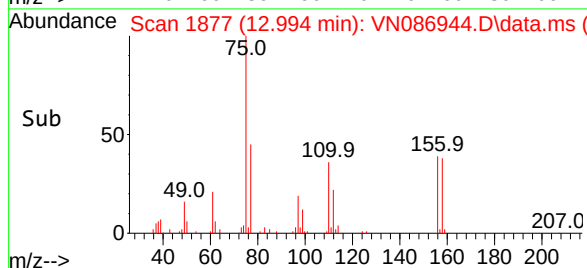
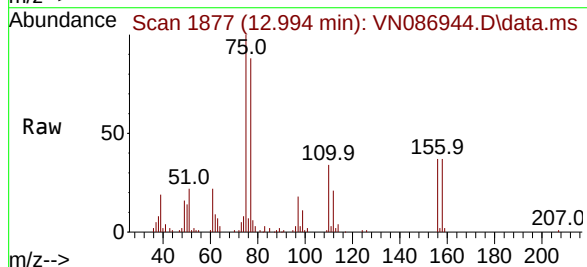
RT: 12.994 min Scan# 1877

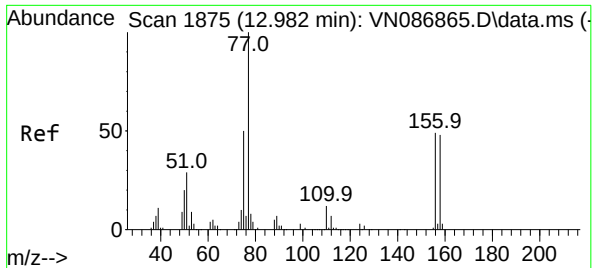
Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Tgt Ion:	75	Resp:	71582
Ion	Ratio	Lower	Upper
75	100		
77	177.6	79.3	237.9





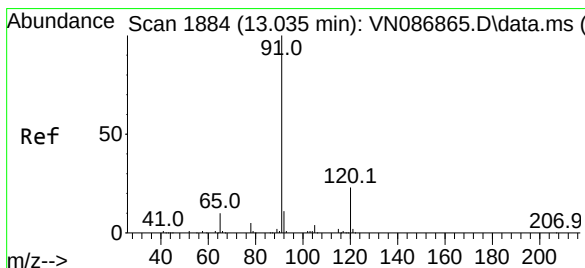
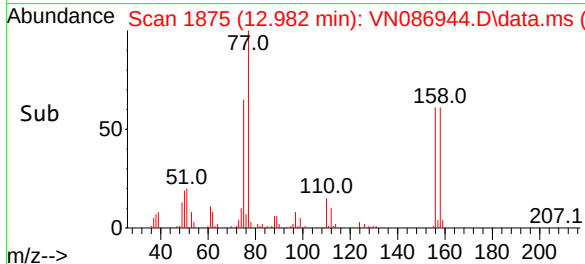
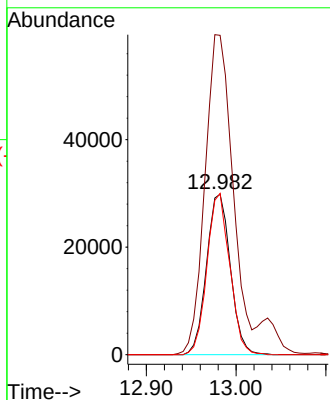
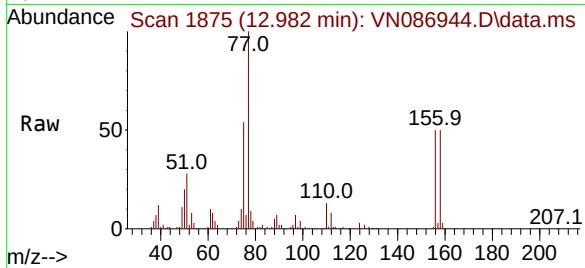
#77
Bromobenzene
Concen: 20.981 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Tgt Ion:156 Resp: 55170
Ion Ratio Lower Upper
156 100
77 230.4 117.7 353.1
158 95.7 48.1 144.4

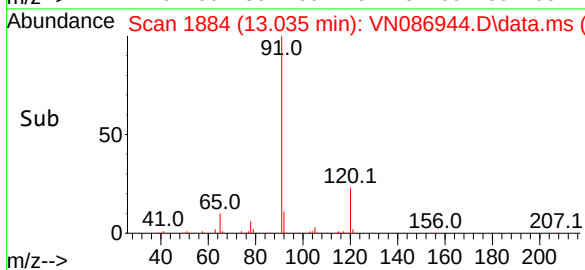
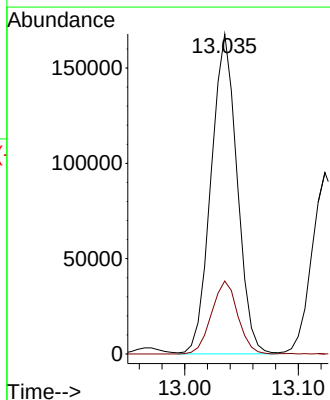
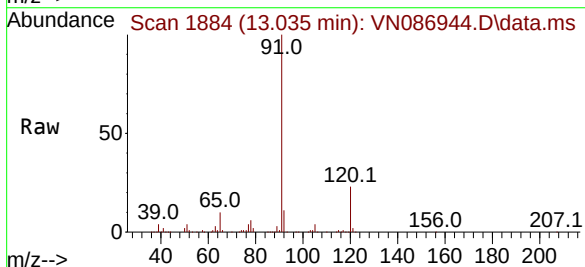
Manual Integrations
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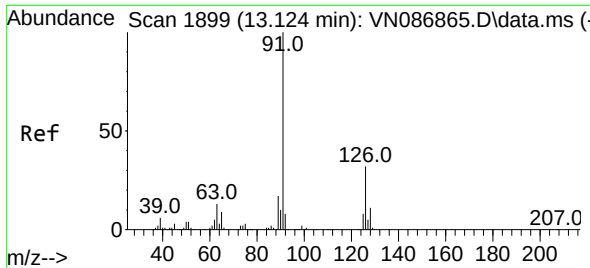
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#78
n-propylbenzene
Concen: 19.187 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion: 91 Resp: 267384
Ion Ratio Lower Upper
91 100
120 22.9 11.4 34.2





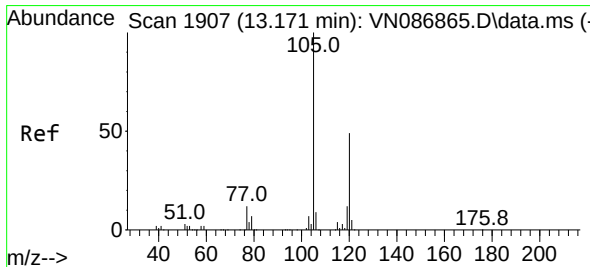
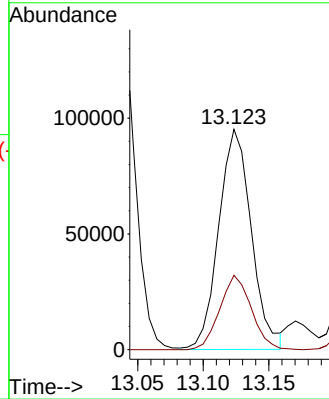
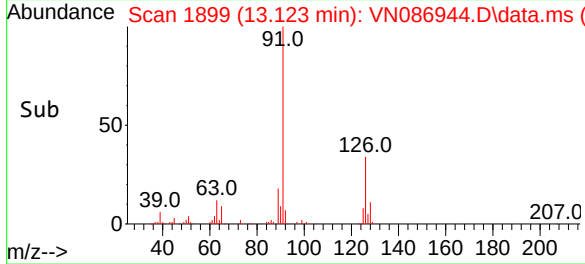
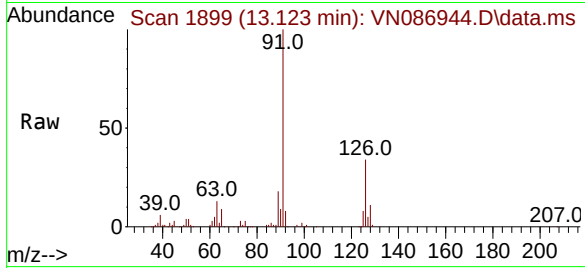
#79
2-Chlorotoluene
Concen: 19.721 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Tgt Ion: 91 Resp: 16481
Ion Ratio Lower Upper
91 100
126 32.6 16.2 48.5

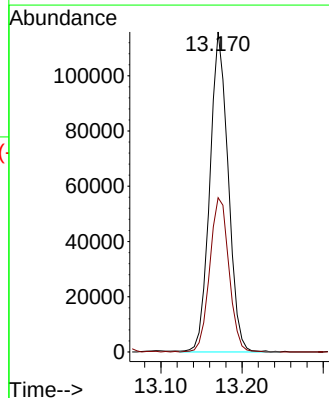
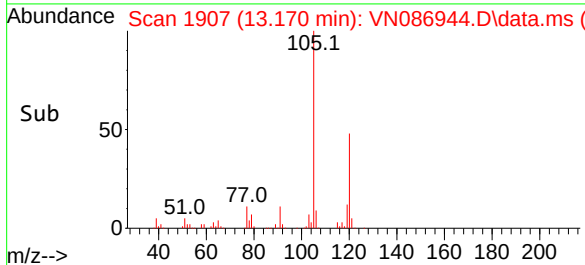
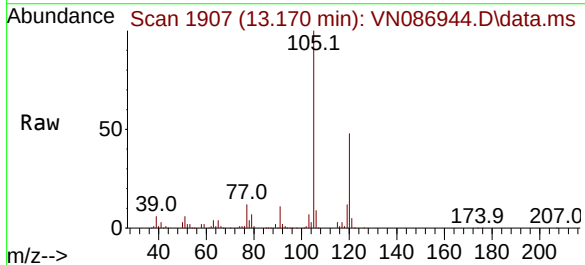
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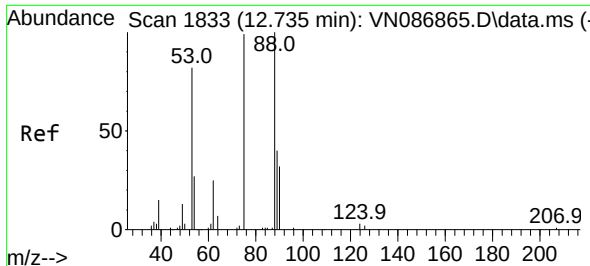
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#80
1,3,5-Trimethylbenzene
Concen: 19.200 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

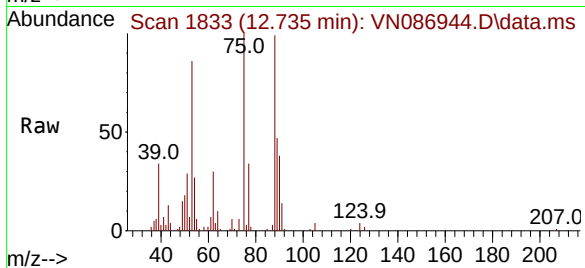
Tgt Ion:105 Resp: 181773
Ion Ratio Lower Upper
105 100
120 50.4 24.9 74.6





#81
trans-1,4-Dichloro-2-butene
Concen: 18.532 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

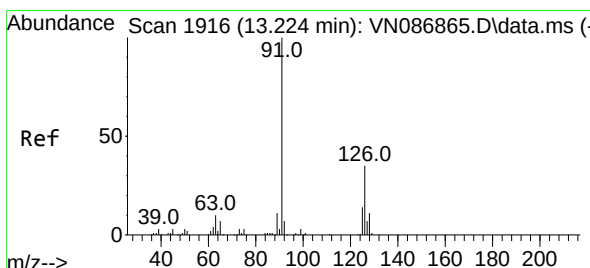
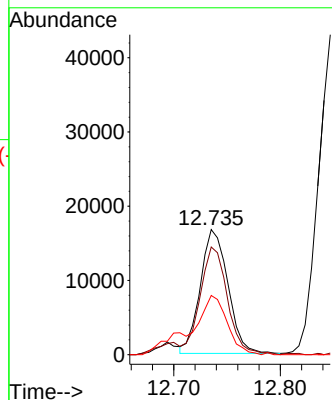
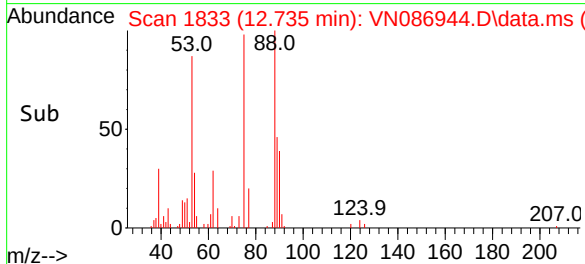
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02



Tgt Ion: 75 Resp: 3012
Ion Ratio Lower Upper
75 100
53 94.2 66.6 99.8
89 63.9 36.7 55.1

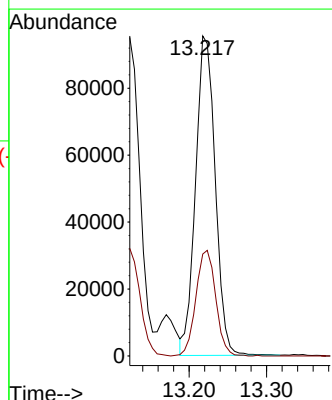
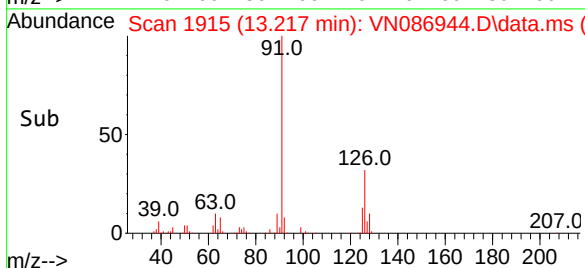
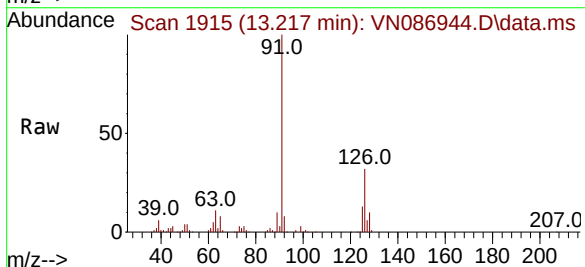
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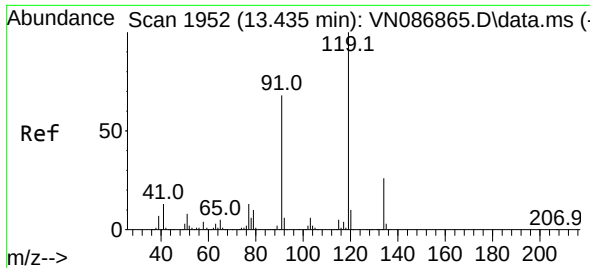
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#82
4-Chlorotoluene
Concen: 19.866 ug/l
RT: 13.217 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion: 91 Resp: 167991
Ion Ratio Lower Upper
91 100
126 33.4 16.7 50.1





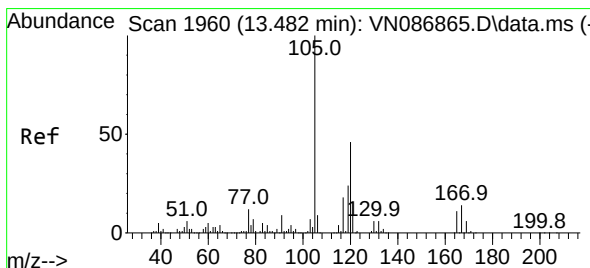
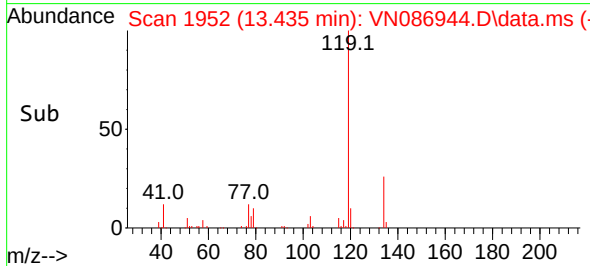
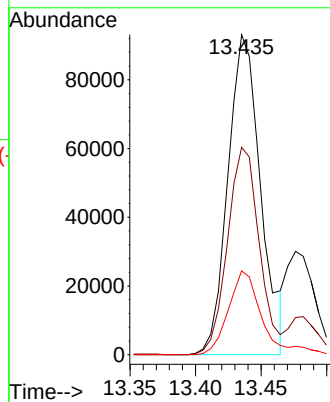
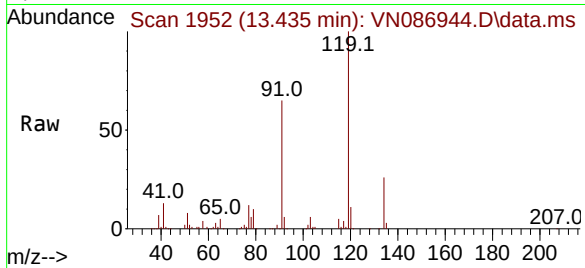
#83
tert-Butylbenzene
Concen: 18.646 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Tgt Ion:119 Resp: 16159
Ion Ratio Lower Upper
119 100
91 63.1 32.1 96.5
134 26.9 13.4 40.1

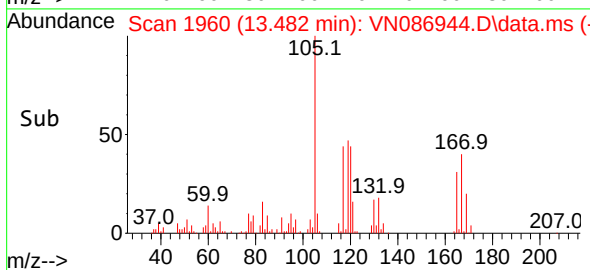
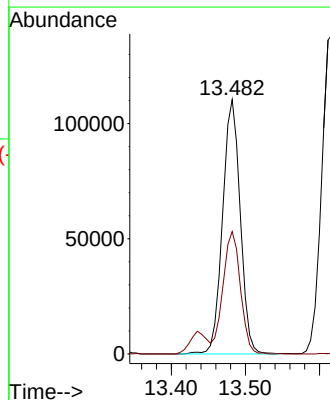
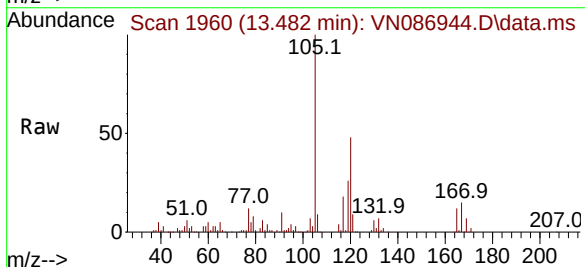
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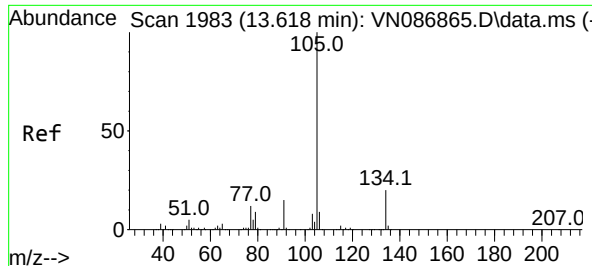
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#84
1,2,4-Trimethylbenzene
Concen: 19.216 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion:105 Resp: 182431
Ion Ratio Lower Upper
105 100
120 47.6 23.2 69.6





#85

sec-Butylbenzene

Concen: 18.189 ug/l

RT: 13.617 min Scan# 1983

Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBS02

Tgt Ion:105 Resp: 22890

Ion Ratio Lower Upper

105 100

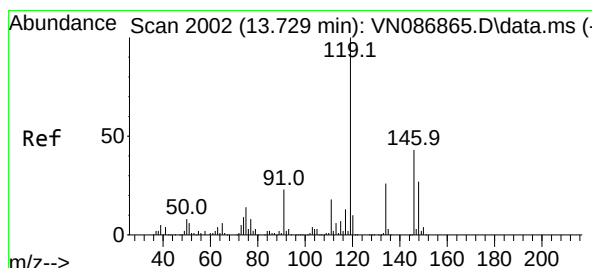
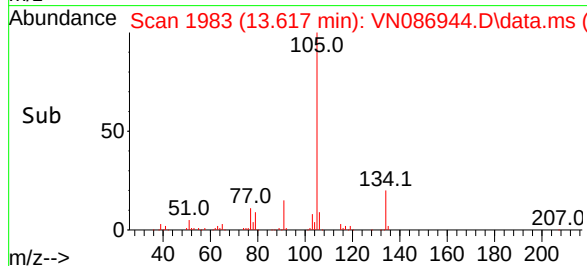
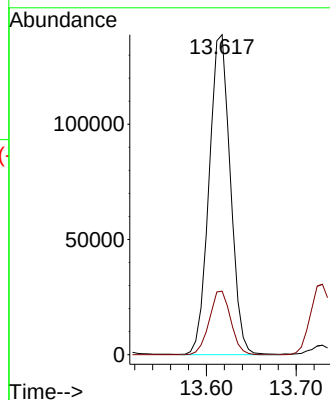
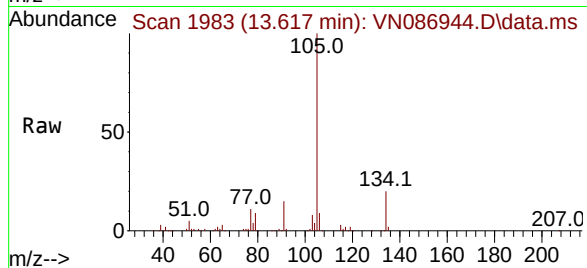
134 19.9 10.0 30.0

Manual Integrations

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Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#86

p-Isopropyltoluene

Concen: 18.551 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

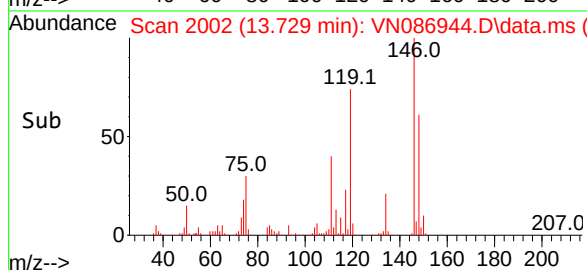
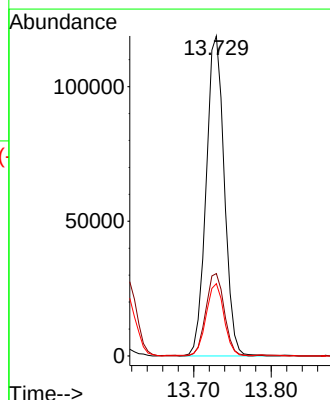
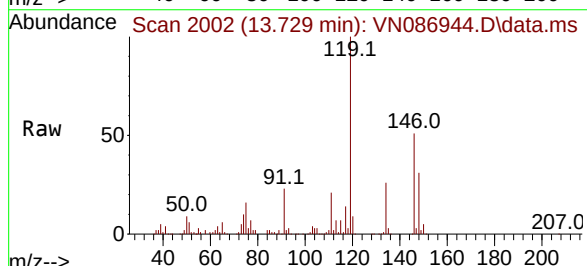
Tgt Ion:119 Resp: 192991

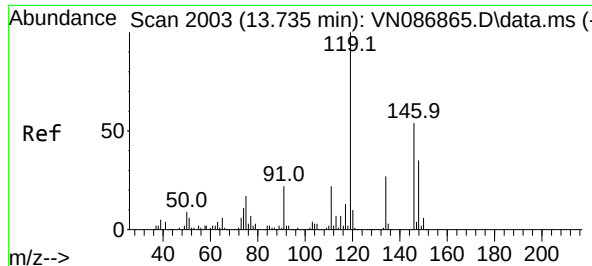
Ion Ratio Lower Upper

119 100

134 26.2 13.5 40.4

91 22.1 11.5 34.4





#87

1,3-Dichlorobenzene

Concen: 20.271 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBS02

Tgt Ion:146 Resp: 10488

Ion Ratio Lower Upper

146 100

111 41.3 20.9 62.8

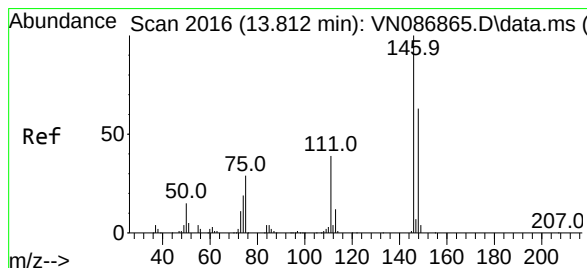
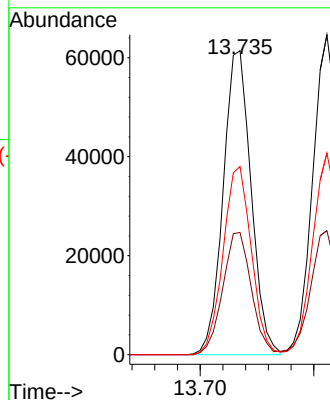
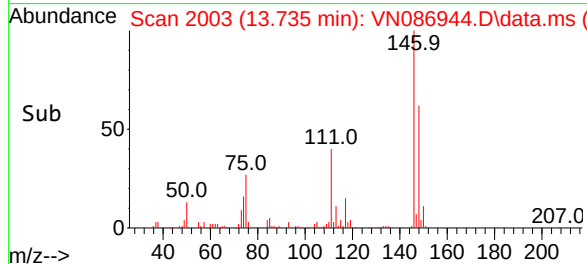
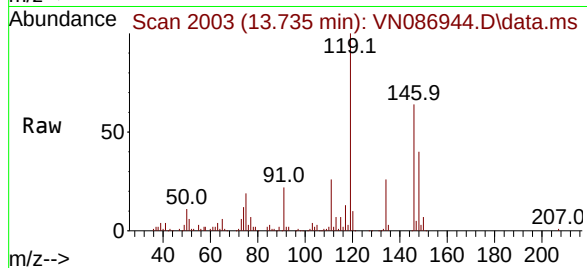
148 62.6 32.0 96.2

Manual Integrations

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Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#88

1,4-Dichlorobenzene

Concen: 20.426 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

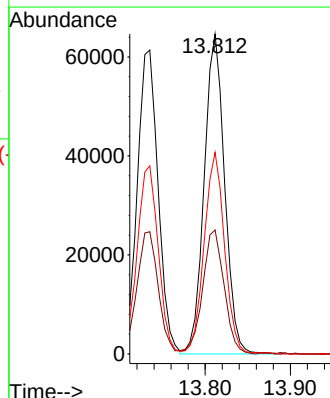
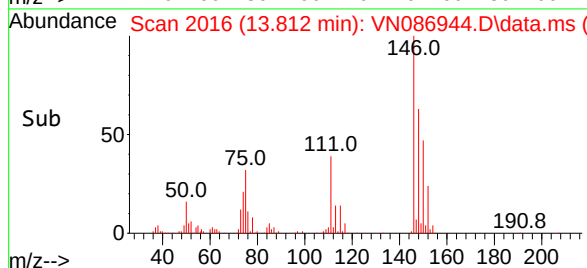
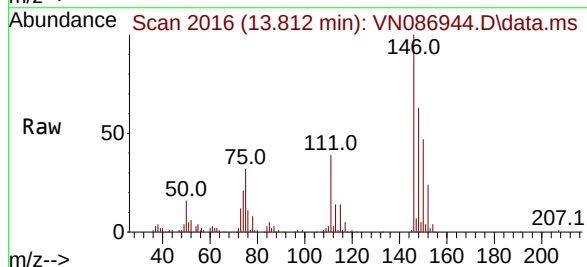
Tgt Ion:146 Resp: 107750

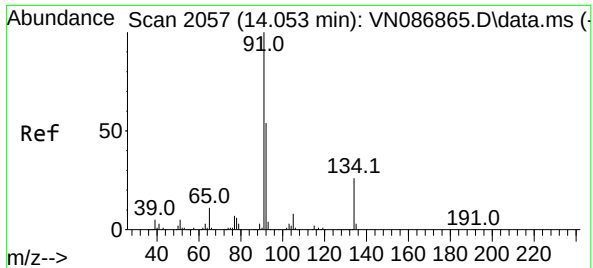
Ion Ratio Lower Upper

146 100

111 40.7 19.9 59.7

148 63.1 31.8 95.4





#89

n-Butylbenzene

Concen: 17.613 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBS02

Tgt Ion: 91 Resp: 17748

Ion Ratio Lower Upper

91 100

92 54.9 27.5 82.4

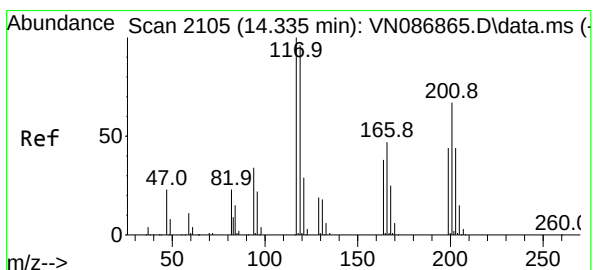
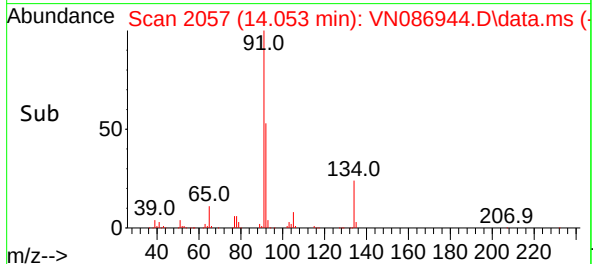
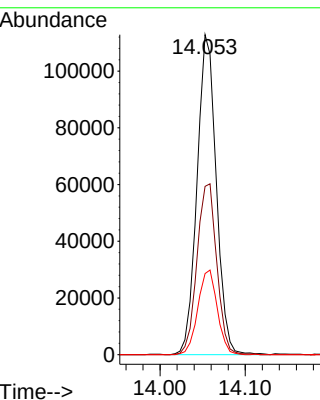
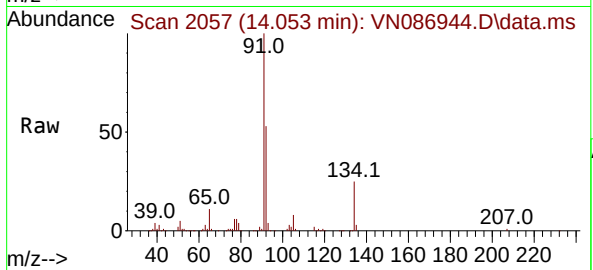
134 26.7 13.0 39.0

Manual Integrations

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Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#90

Hexachloroethane

Concen: 18.972 ug/l

RT: 14.329 min Scan# 2104

Delta R.T. -0.006 min

Lab File: VN086944.D

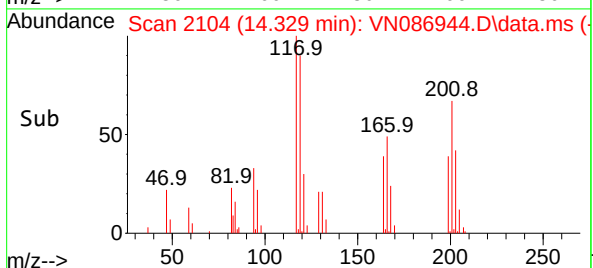
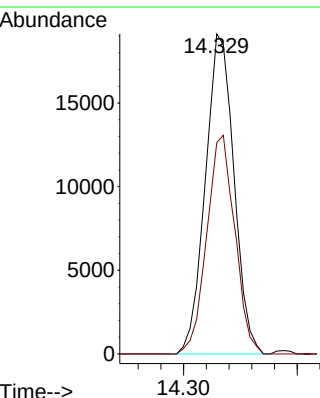
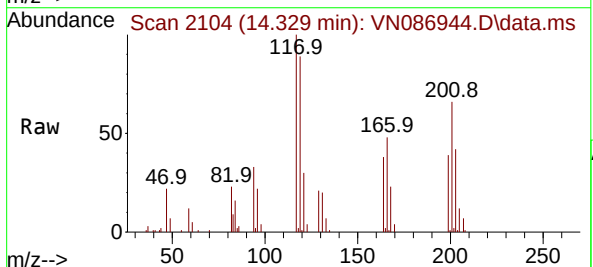
Acq: 11 Jun 2025 13:27

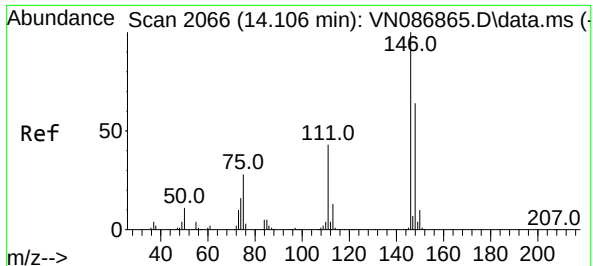
Tgt Ion:117 Resp: 33456

Ion Ratio Lower Upper

117 100

201 67.1 33.2 99.6





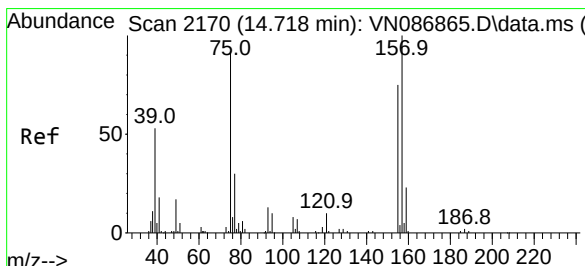
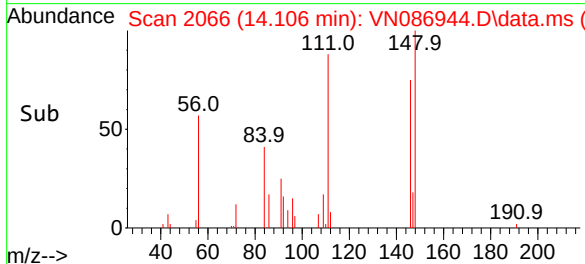
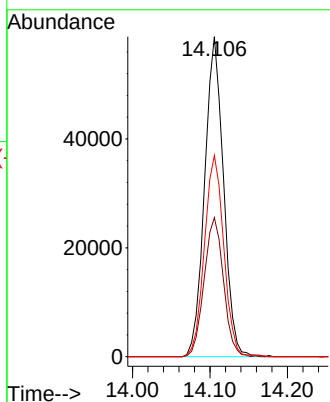
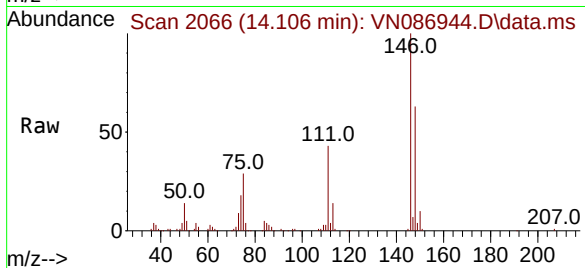
#91
1,2-Dichlorobenzene
Concen: 19.995 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Tgt Ion:146 Resp: 99394
Ion Ratio Lower Upper
146 100
111 44.5 21.6 64.6
148 64.5 31.7 95.1

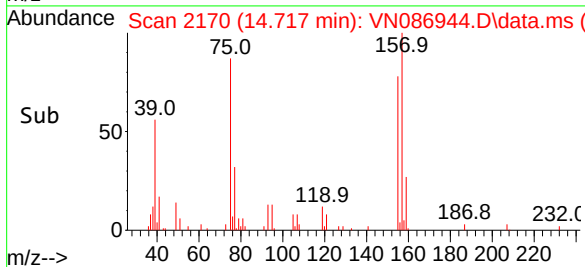
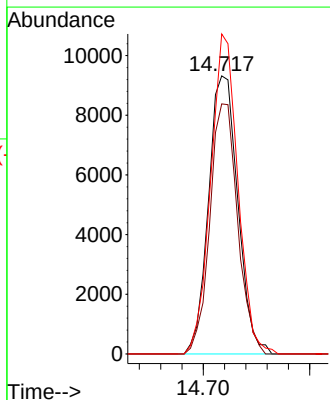
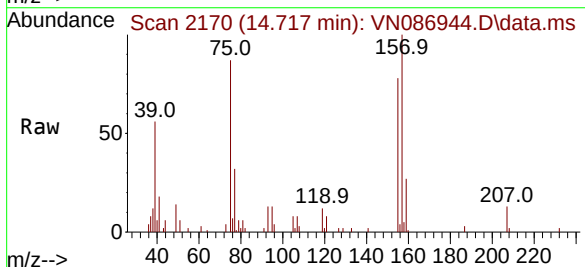
Manual Integrations
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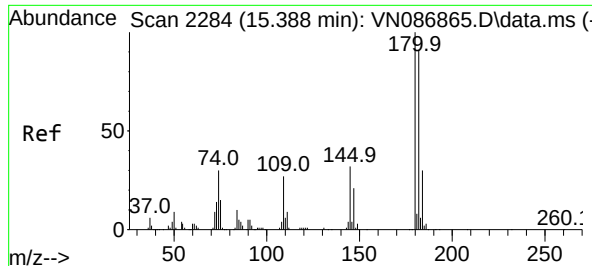
Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 19.155 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion: 75 Resp: 17796
Ion Ratio Lower Upper
75 100
155 85.2 41.1 123.4
157 106.8 52.7 158.1





#93

1,2,4-Trichlorobenzene

Concen: 18.433 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBS02

Tgt Ion:180 Resp: 58509

Ion Ratio Lower Upper

180 100

182 96.7 46.9 140.7

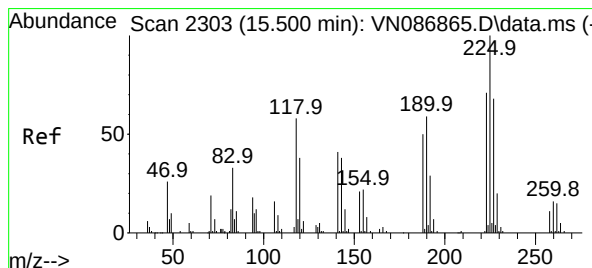
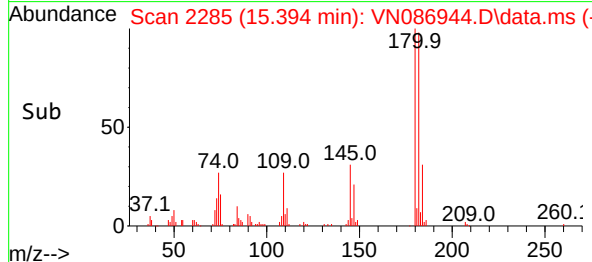
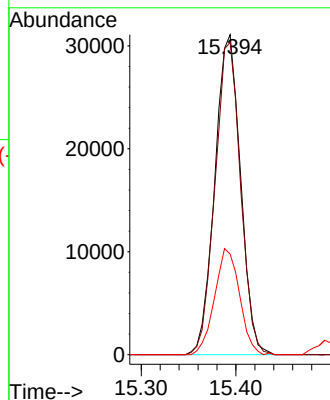
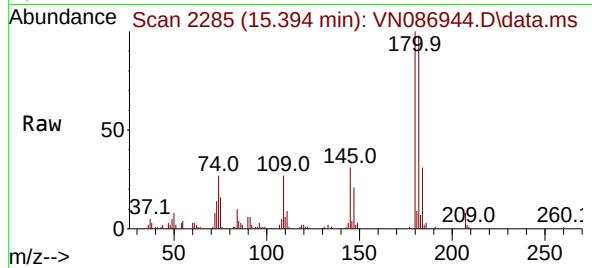
145 32.3 16.0 47.9

Manual Integrations

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Reviewed By :John Carlone 06/12/2025

Supervised By :Semsettin Yesilyurt 06/12/2025



#94

Hexachlorobutadiene

Concen: 16.567 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

Lab File: VN086944.D

Acq: 11 Jun 2025 13:27

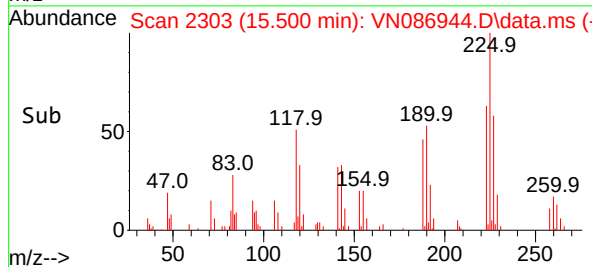
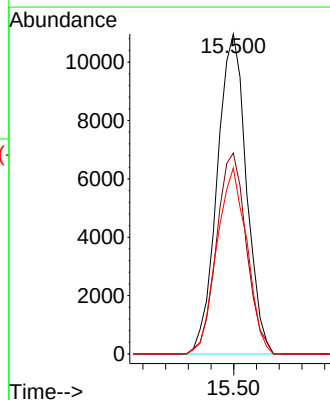
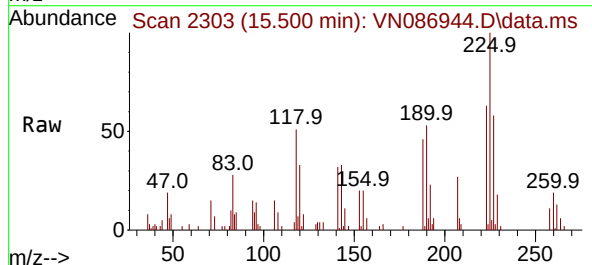
Tgt Ion:225 Resp: 19592

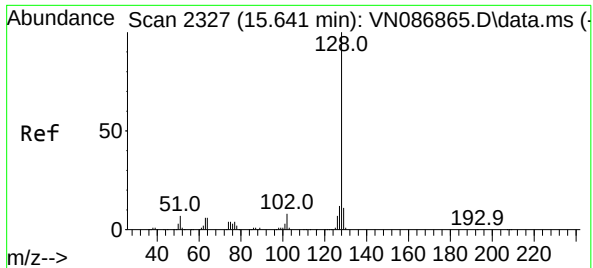
Ion Ratio Lower Upper

225 100

223 64.0 33.5 100.4

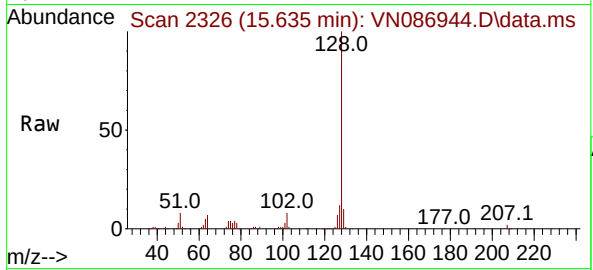
227 60.0 31.1 93.5





#95
Naphthalene
Concen: 19.700 ug/l
RT: 15.635 min Scan# 2327
Delta R.T. -0.006 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

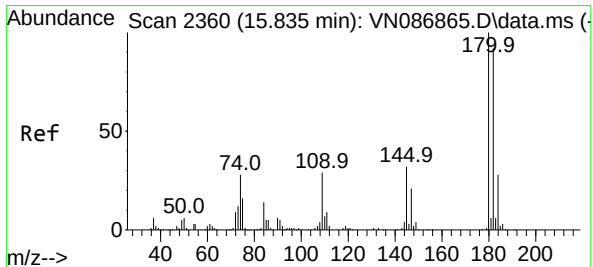
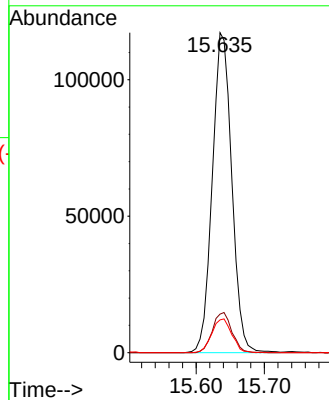
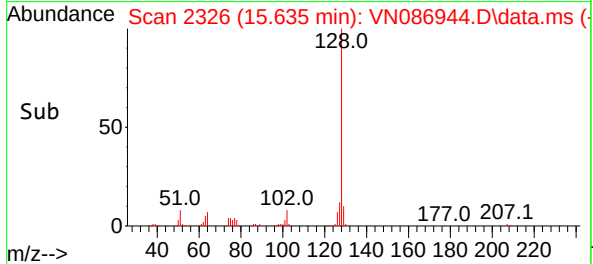
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02



Tgt Ion:128 Resp: 232760
Ion Ratio Lower Upper
128 100
127 12.6 10.2 15.2
129 10.9 8.8 13.2

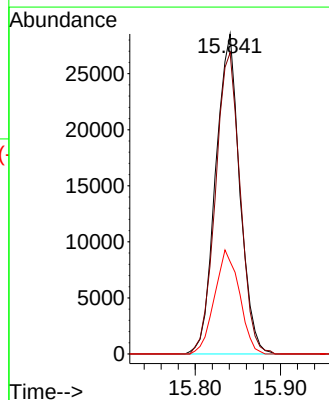
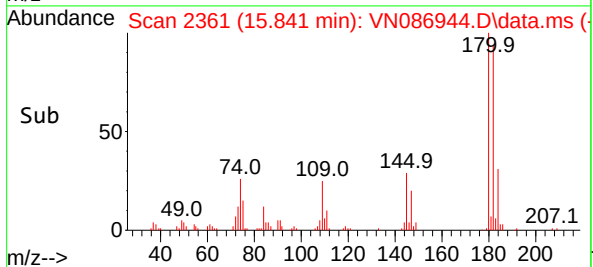
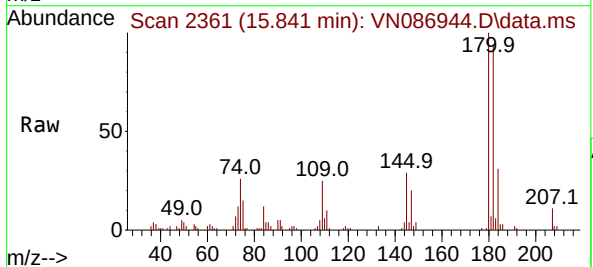
Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025



#96
1,2,3-Trichlorobenzene
Concen: 17.802 ug/l
RT: 15.841 min Scan# 2361
Delta R.T. 0.006 min
Lab File: VN086944.D
Acq: 11 Jun 2025 13:27

Tgt Ion:180 Resp: 56144
Ion Ratio Lower Upper
180 100
182 96.0 47.0 141.0
145 33.6 16.6 49.8



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	MW-11A-13.5-060525MS	SDG No.:	Q2250
Lab Sample ID:	Q2250-02MS	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086922.D	1		06/10/25 12:51	VN061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	50.4		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	47.9		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	45.2		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1900	E	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	37.2		0.20	1.00	ug/L
71-43-2	Benzene	39.1		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	39.3		0.22	1.00	ug/L
79-01-6	Trichloroethene	2900	E	0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	40.0		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	57.0		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.9		70 (74) - 130 (125)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	51.2		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	174000	8.23			
540-36-3	1,4-Difluorobenzene	311000	9.106			
3114-55-4	Chlorobenzene-d5	271000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	133000	13.788			

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_N\Data\VN061025\
 Data File : VN086922.D
 Acq On : 10 Jun 2025 12:51
 Operator : JC\MD
 Sample : Q2250-02MS
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-11A-13.5-060525MS

Manual Integrations APPROVED

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

Quant Time: Jun 11 01:52:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	174378	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	310932	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	270945	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132628	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	116443	49.874	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.740%			
35) Dibromofluoromethane	8.177	113	96506	52.373	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.740%			
50) Toluene-d8	10.571	98	373191	51.160	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.320%			
62) 4-Bromofluorobenzene	12.847	95	138034	50.932	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.860%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.154	85	68302	39.284	ug/l	96
3) Chloromethane	2.395	50	80842	36.007	ug/l	100
4) Vinyl Chloride	2.554	62	116824	50.442	ug/l	100
5) Bromomethane	3.001	94	51812	39.977	ug/l	94
6) Chloroethane	3.159	64	58869	39.351	ug/l	100
7) Trichlorofluoromethane	3.530	101	115932	38.313	ug/l	96
8) Diethyl Ether	3.989	74	51551	39.101	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.400	101	367438	193.276	ug/l	99
10) Methyl Iodide	4.618	142	79922	32.430	ug/l	97
11) Tert butyl alcohol	5.530	59	107683	169.980	ug/l	98
12) 1,1-Dichloroethene	4.371	96	92890	47.860	ug/l	93
13) Acrolein	4.200	56	33731	168.212	ug/l	98
14) Allyl chloride	5.047	41	117940	36.641	ug/l	96
15) Acrylonitrile	5.736	53	284483	192.124	ug/l	98
16) Acetone	4.448	43	215008	173.656	ug/l	99
17) Carbon Disulfide	4.742	76	196337	36.571	ug/l	98
18) Methyl Acetate	5.047	43	132769	36.798	ug/l	99
19) Methyl tert-butyl Ether	5.812	73	271783	38.674	ug/l	98
20) Methylene Chloride	5.300	84	87753	37.857	ug/l	96
21) trans-1,2-Dichloroethene	5.806	96	102714	47.566	ug/l	97
22) Diisopropyl ether	6.689	45	255658	37.680	ug/l	99
23) Vinyl Acetate	6.618	43	1062011	185.258	ug/l	99
24) 1,1-Dichloroethane	6.583	63	176376	45.171	ug/l	99
25) 2-Butanone	7.494	43	364801	181.265	ug/l #	80
26) 2,2-Dichloropropane	7.506	77	128482	42.301	ug/l #	1
27) cis-1,2-Dichloroethene	7.500	96	4853647	1879.430	ug/l	90
28) Bromochloromethane	7.824	49	78797	41.044	ug/l	93
29) Tetrahydrofuran	7.847	42	239404	182.609	ug/l	96
30) Chloroform	7.977	83	151067	38.741	ug/l	99
31) Cyclohexane	8.265	56	123047	32.495	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	123440	37.219	ug/l	98
36) 1,1-Dichloropropene	8.377	75	106081	38.635	ug/l	100
37) Ethyl Acetate	7.571	43	126676	36.242	ug/l #	79
38) Carbon Tetrachloride	8.371	117	102158	37.897	ug/l	96
39) Methylcyclohexane	9.606	83	118983	31.630	ug/l	95
40) Benzene	8.612	78	351060	39.099	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
 Data File : VN086922.D
 Acq On : 10 Jun 2025 12:51
 Operator : JC\MD
 Sample : Q2250-02MS
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-11A-13.5-060525MS

Manual Integrations APPROVED

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

Quant Time: Jun 11 01:52:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.788	41	70459	35.893	ug/l	94
42) 1,2-Dichloroethane	8.677	62	106970	39.279	ug/l	100
43) Isopropyl Acetate	8.694	43	203030	36.190	ug/l	98
44) Trichloroethene	9.359	130	6264273	2942.351	ug/l	98
45) 1,2-Dichloropropane	9.624	63	84220	38.556	ug/l	99
46) Dibromomethane	9.712	93	58291	40.176	ug/l	99
47) Bromodichloromethane	9.888	83	115490	38.688	ug/l	98
48) Methyl methacrylate	9.682	41	95039	36.807	ug/l	97
49) 1,4-Dioxane	9.700	88	37276	793.544	ug/l #	94
51) 4-Methyl-2-Pentanone	10.447	43	627690	185.856	ug/l	97
52) Toluene	10.629	92	211099	38.472	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	134072	40.165	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	141166	39.524	ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	84553	40.047	ug/l	98
56) Ethyl methacrylate	10.882	69	138783	41.269	ug/l	95
57) 1,3-Dichloropropane	11.165	76	142808	38.991	ug/l	98
59) 2-Hexanone	11.200	43	410712	188.796	ug/l	94
60) Dibromochloromethane	11.359	129	88571	40.264	ug/l	98
61) 1,2-Dibromoethane	11.471	107	85449	39.485	ug/l	98
64) Tetrachloroethene	11.106	164	97793	57.032	ug/l	97
65) Chlorobenzene	11.894	112	236181	39.523	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	74715	38.896	ug/l	99
67) Ethyl Benzene	11.965	91	387237	37.621	ug/l	99
68) m/p-Xylenes	12.071	106	305789	77.607	ug/l	97
69) o-Xylene	12.394	106	147363	39.050	ug/l	98
70) Styrene	12.412	104	254157	39.358	ug/l	100
71) Bromoform	12.576	173	59843	42.046	ug/l #	100
73) Isopropylbenzene	12.694	105	356009	36.846	ug/l	100
74) N-amyl acetate	12.512	43	142895m	42.322	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.935	83	131015	40.025	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	111129m	35.250	ug/l	
77) Bromobenzene	12.982	156	89530	40.405	ug/l	98
78) n-propylbenzene	13.035	91	421170	35.869	ug/l	99
79) 2-Chlorotoluene	13.123	91	262472	37.274	ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	287840	36.083	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	56257	41.077	ug/l	97
82) 4-Chlorotoluene	13.218	91	272044	38.181	ug/l	100
83) tert-Butylbenzene	13.435	119	247652	33.915	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	294041	36.759	ug/l	100
85) sec-Butylbenzene	13.612	105	353284	33.315	ug/l	100
86) p-Isopropyltoluene	13.723	119	297463	33.934	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	165194	37.892	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	172677	38.850	ug/l	99
89) n-Butylbenzene	14.053	91	270209	31.824	ug/l	100
90) Hexachloroethane	14.329	117	52840	35.562	ug/l	96
91) 1,2-Dichlorobenzene	14.106	146	161871	38.647	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	28266	36.108	ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	89607	33.503	ug/l	99
94) Hexachlorobutadiene	15.494	225	26250	26.343	ug/l	99
95) Naphthalene	15.635	128	365200	36.684	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	85176	32.053	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086922.D
Acq On : 10 Jun 2025 12:51
Operator : JC\MD
Sample : Q2250-02MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 11 01:52:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS

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)

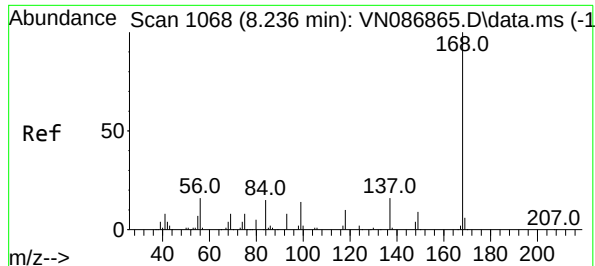
(#)=qualifier out of range (m)=manual integration (+)=signals summed						

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS

Manual Integrations

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





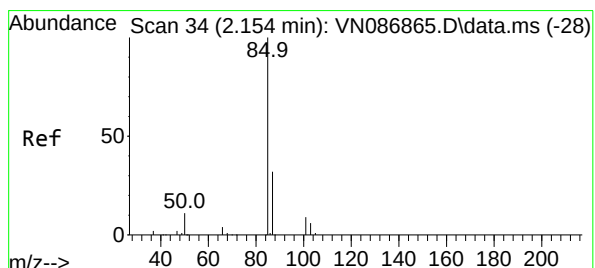
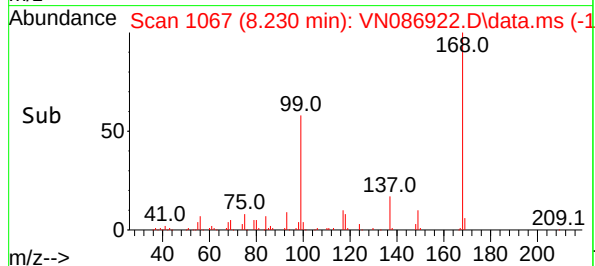
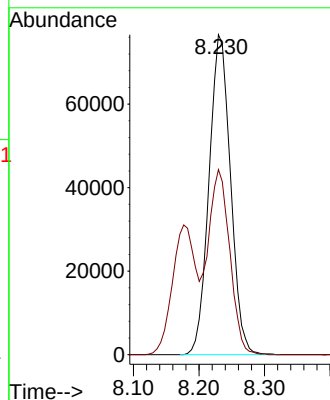
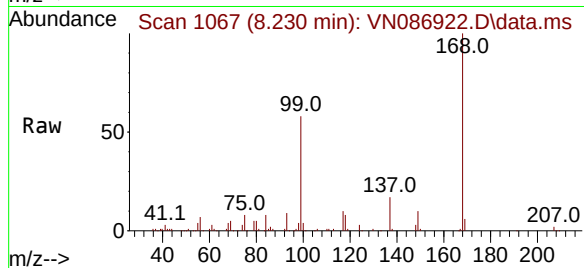
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS

Tgt Ion:168 Resp: 174378
Ion Ratio Lower Upper
168 100
99 57.9 49.1 73.7

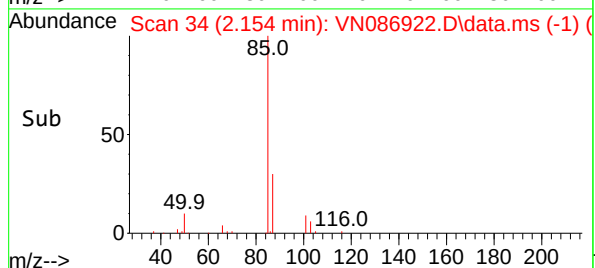
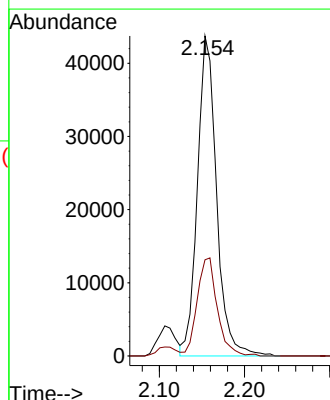
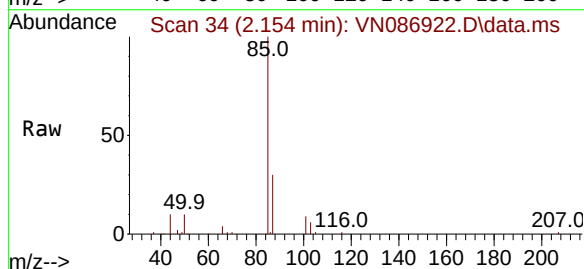
Manual Integrations
APPROVED

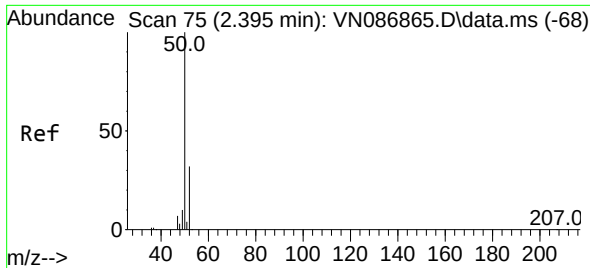
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#2
Dichlorodifluoromethane
Concen: 39.284 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

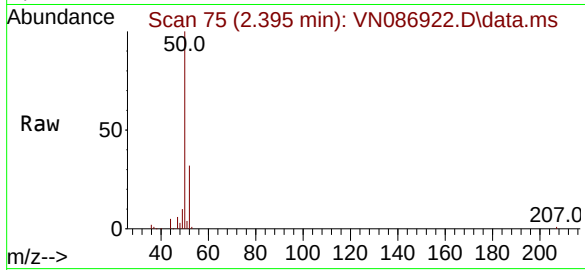
Tgt Ion: 85 Resp: 68302
Ion Ratio Lower Upper
85 100
87 30.1 16.2 48.6





#3
Chloromethane
Concen: 36.007 ug/l
RT: 2.395 min Scan# 75
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

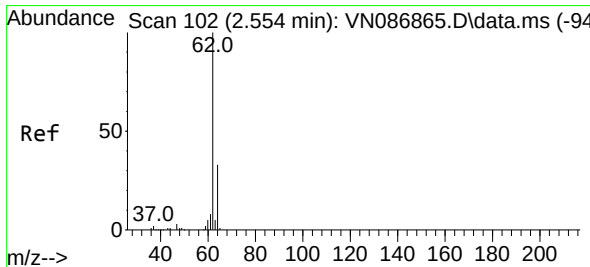
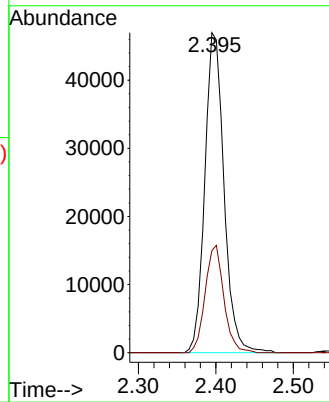
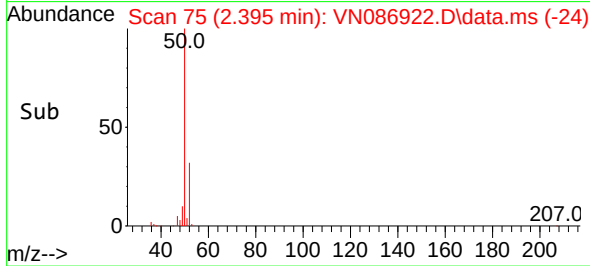
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



Tgt Ion: 50 Resp: 8084
Ion Ratio Lower Upper
50 100
52 31.9 25.7 38.5

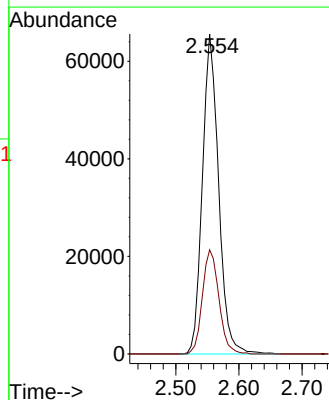
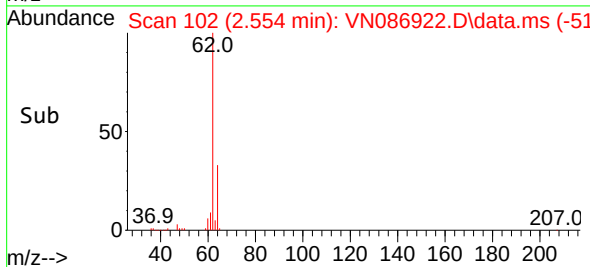
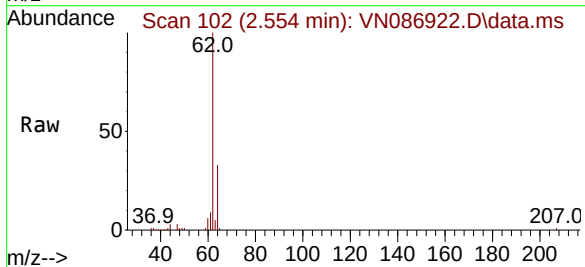
Manual Integrations
APPROVED

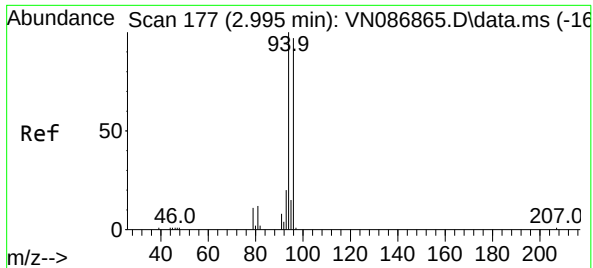
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#4
Vinyl Chloride
Concen: 50.442 ug/l
RT: 2.554 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Tgt Ion: 62 Resp: 116824
Ion Ratio Lower Upper
62 100
64 32.5 26.0 39.0





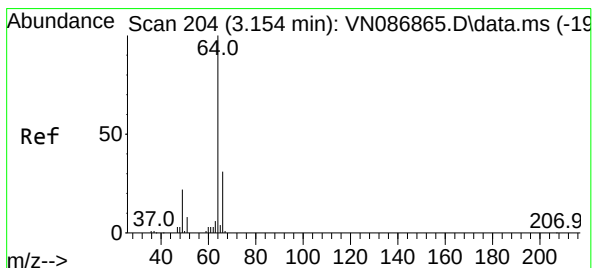
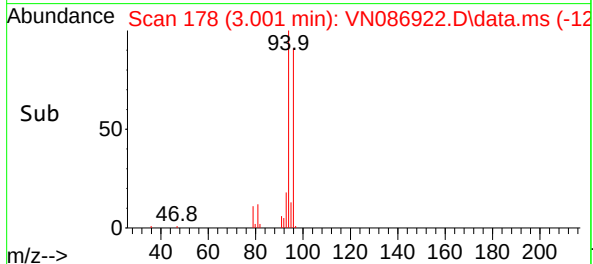
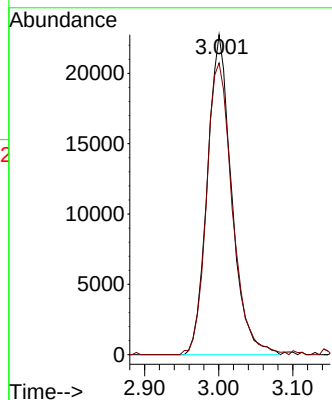
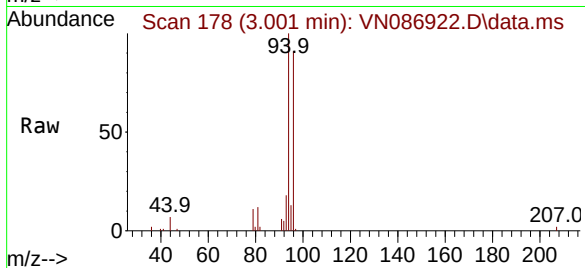
#5
Bromomethane
Concen: 39.977 ug/l
RT: 3.001 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS

Tgt Ion: 94 Resp: 5181
Ion Ratio Lower Upper
94 100
96 91.1 77.9 116.9

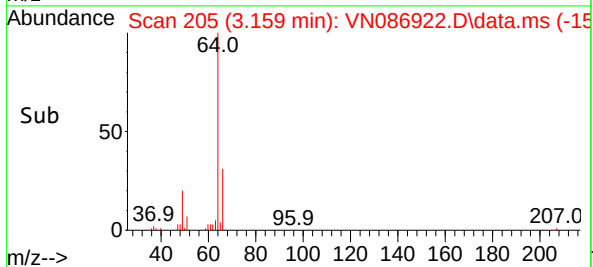
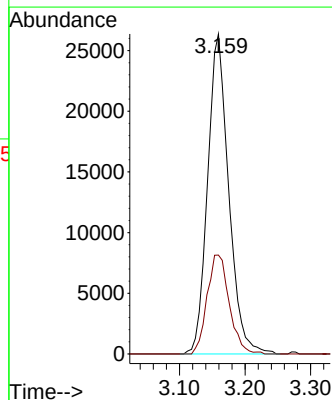
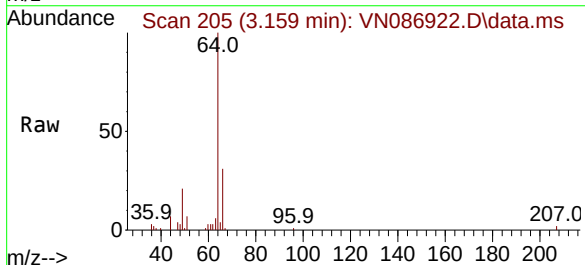
Manual Integrations
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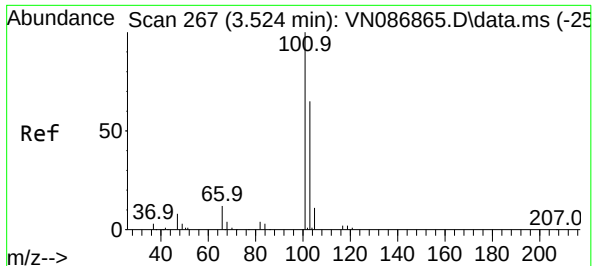
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#6
Chloroethane
Concen: 39.351 ug/l
RT: 3.159 min Scan# 205
Delta R.T. 0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

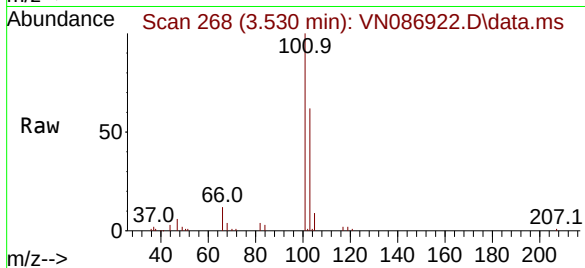
Tgt Ion: 64 Resp: 58869
Ion Ratio Lower Upper
64 100
66 30.9 24.6 36.8





#7
Trichlorofluoromethane
Concen: 38.313 ug/l
RT: 3.530 min Scan# 267
Delta R.T. 0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

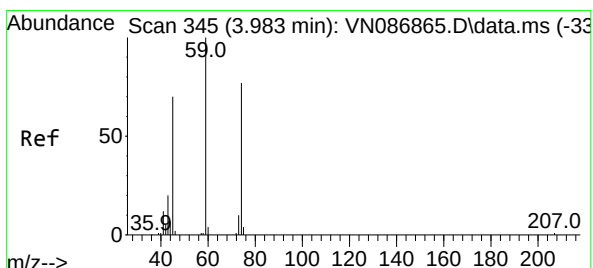
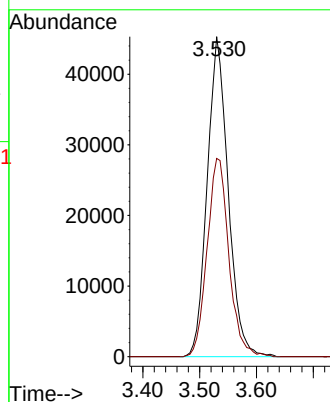
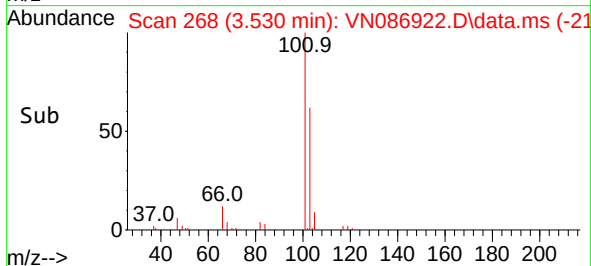
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



Tgt Ion: 101 Resp: 11593
Ion Ratio Lower Upper
101 100
103 61.9 52.2 78.2

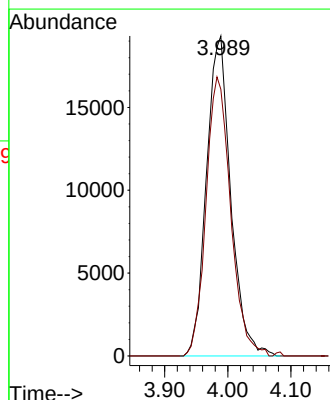
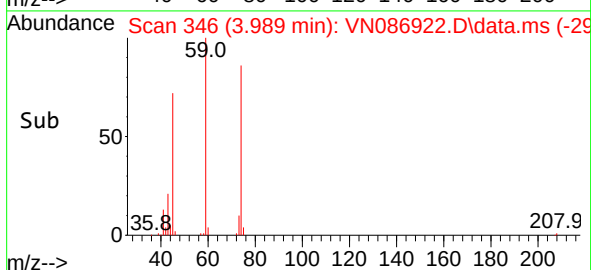
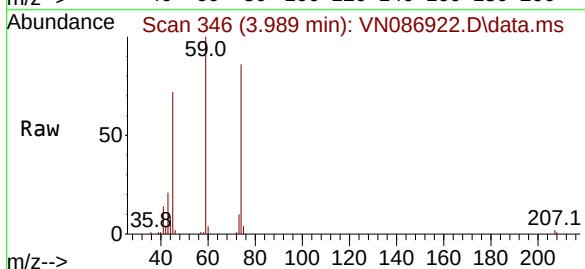
Manual Integrations
APPROVED

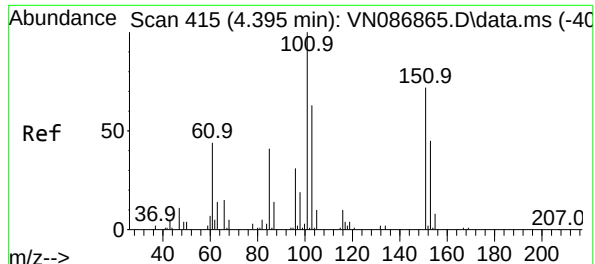
Reviewed By : John Carlone 06/11/2025
Supervised By : Mahesh Dadoda 06/11/2025



#8
Diethyl Ether
Concen: 39.101 ug/l
RT: 3.989 min Scan# 346
Delta R.T. 0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Tgt Ion: 74 Resp: 51551
Ion Ratio Lower Upper
74 100
45 88.6 45.5 136.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 193.276 ug/l

RT: 4.400 min Scan# 415

Delta R.T. 0.006 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MS

Tgt Ion:101 Resp: 367438

Ion Ratio Lower Upper

101 100

85 41.8 33.8 50.8

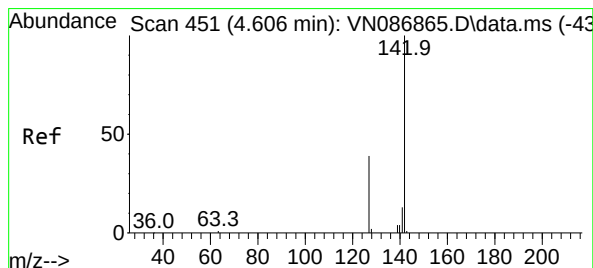
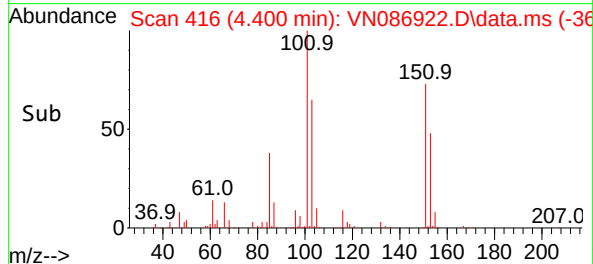
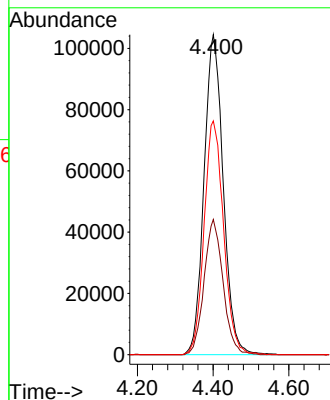
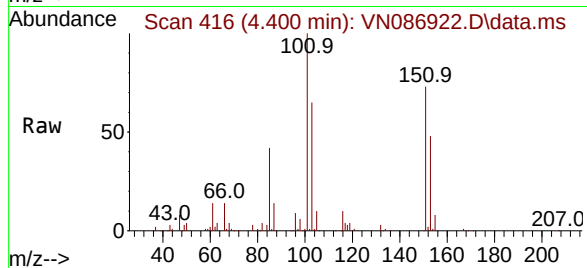
151 74.1 58.7 88.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#10

Methyl Iodide

Concen: 32.430 ug/l

RT: 4.618 min Scan# 453

Delta R.T. 0.012 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

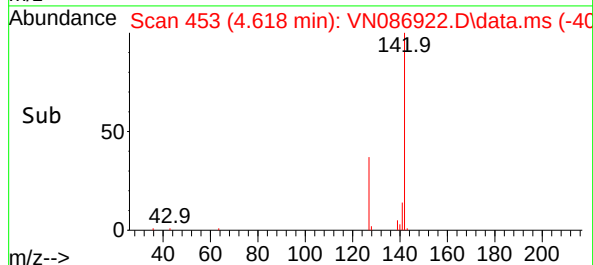
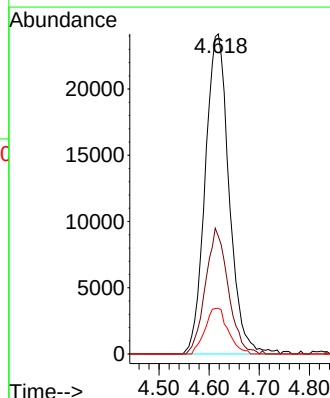
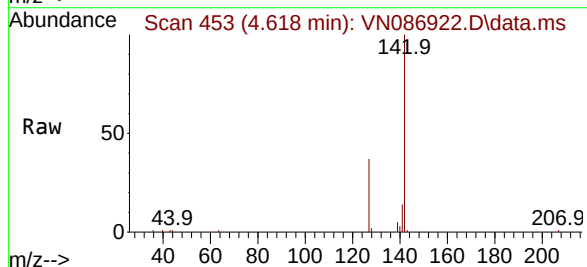
Tgt Ion:142 Resp: 79922

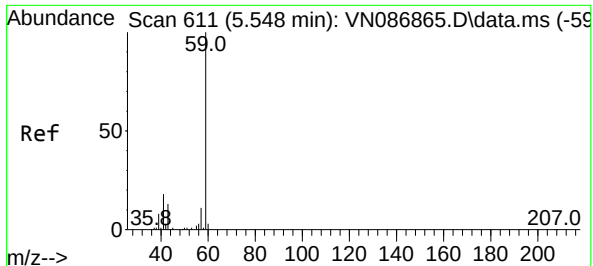
Ion Ratio Lower Upper

142 100

127 36.8 30.9 46.3

141 14.3 10.4 15.6





#11

Tert butyl alcohol

Concen: 169.980 ug/l

RT: 5.530 min Scan# 608

Delta R.T. -0.018 min

Lab File: VN086922.D

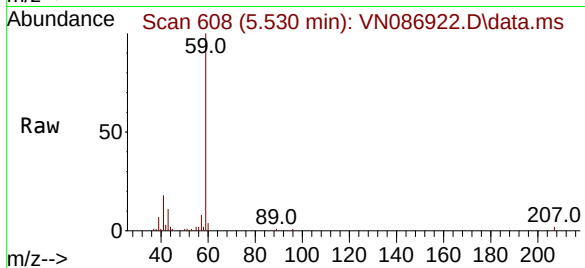
Acq: 10 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MS



Tgt Ion: 59 Resp: 10768

Ion Ratio Lower Upper

59 100

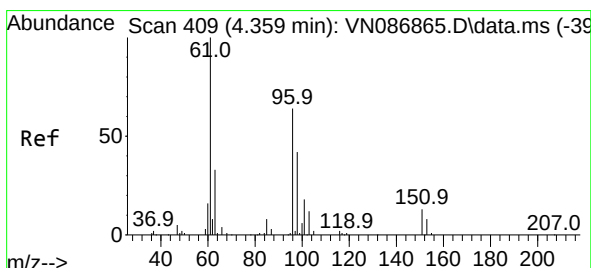
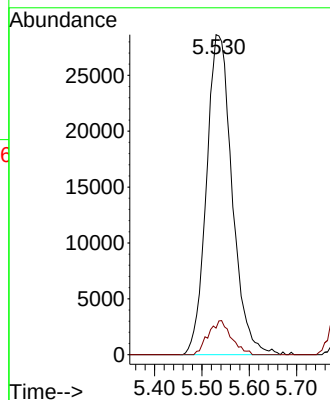
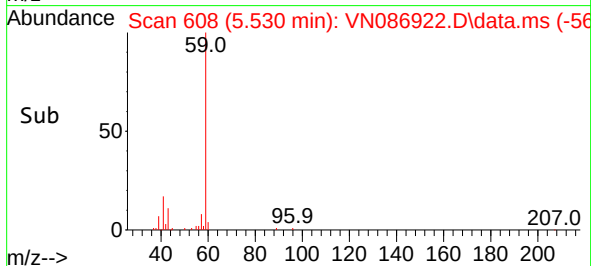
57 9.5 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#12

1,1-Dichloroethene

Concen: 47.860 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.012 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

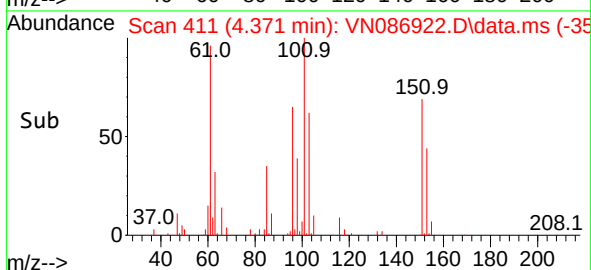
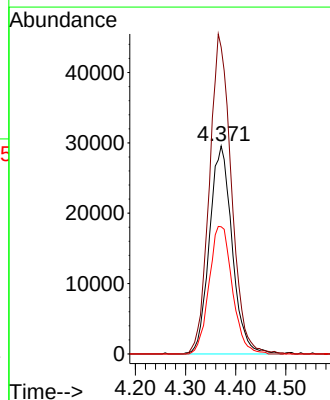
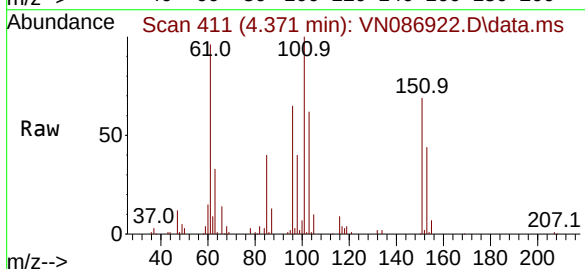
Tgt Ion: 96 Resp: 92890

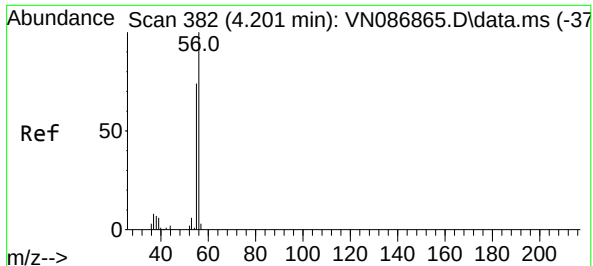
Ion Ratio Lower Upper

96 100

61 147.5 125.8 188.6

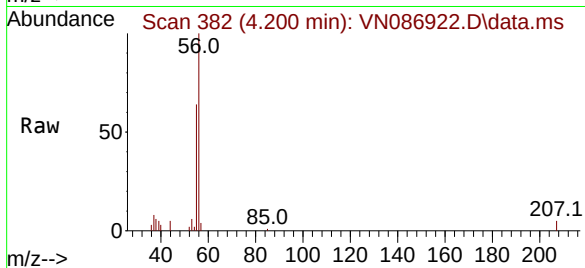
98 61.2 52.5 78.7





#13
Acrolein
Concen: 168.212 ug/l
RT: 4.200 min Scan# 382
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

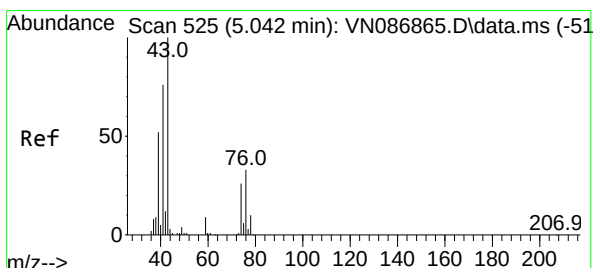
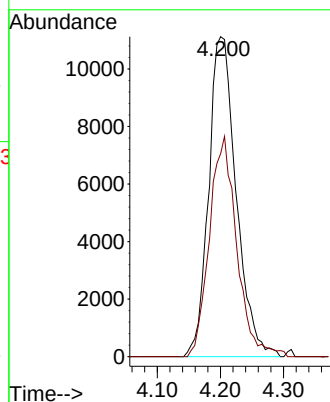
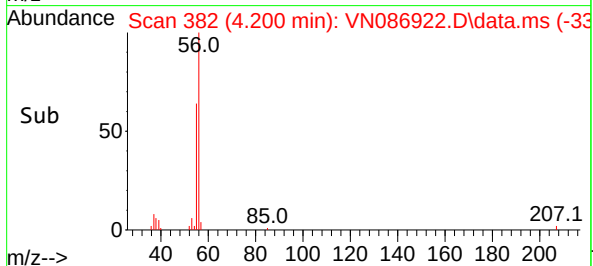
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



Tgt Ion: 56 Resp: 3373
Ion Ratio Lower Upper
56 100
55 68.1 55.6 83.4

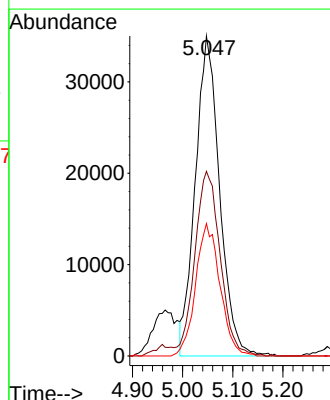
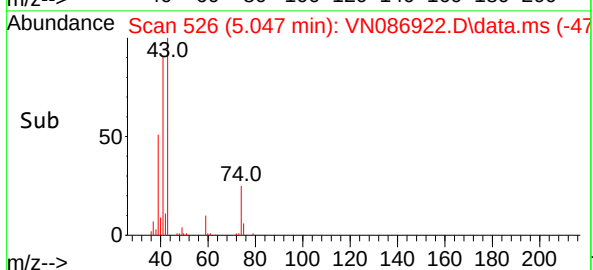
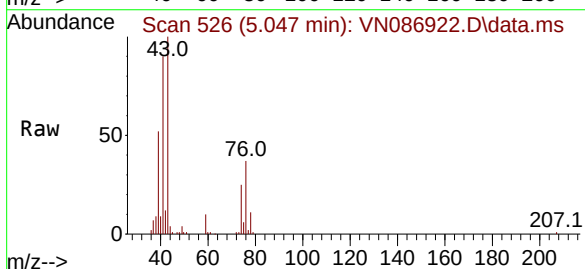
Manual Integrations
APPROVED

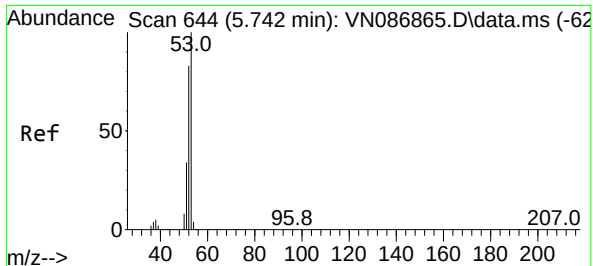
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#14
Allyl chloride
Concen: 36.641 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

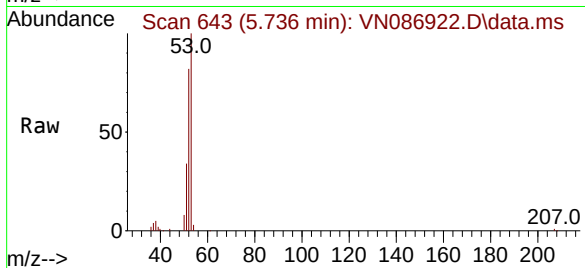
Tgt Ion: 41 Resp: 117940
Ion Ratio Lower Upper
41 100
39 60.5 51.3 76.9
76 41.5 31.4 47.0





#15
Acrylonitrile
Concen: 192.124 ug/l
RT: 5.736 min Scan# 644
Delta R.T. -0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

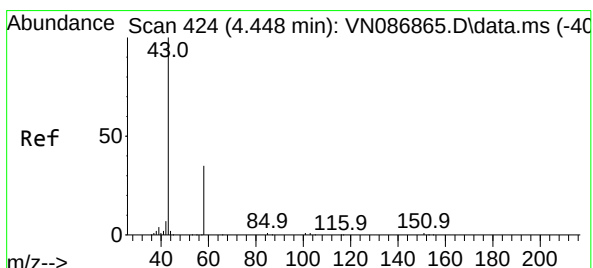
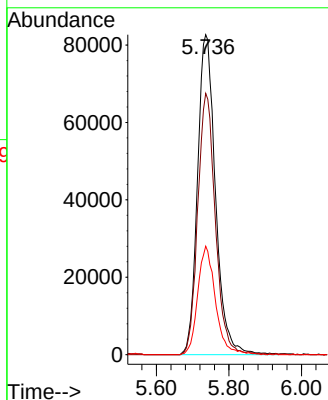
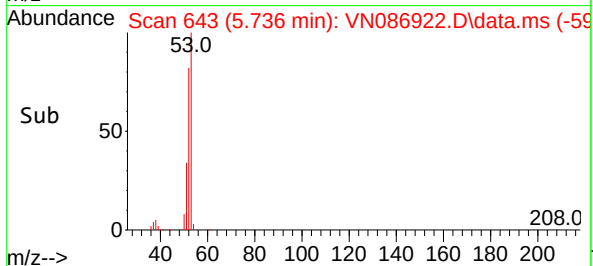
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



Tgt Ion: 53 Resp: 28448
Ion Ratio Lower Upper
53 100
52 79.6 65.0 97.6
51 33.5 27.2 40.8

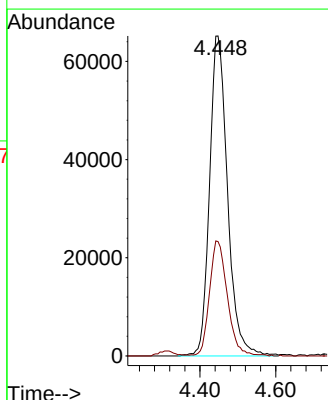
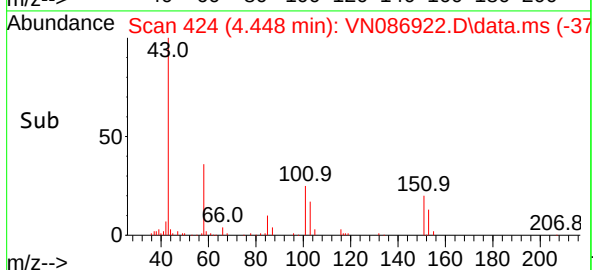
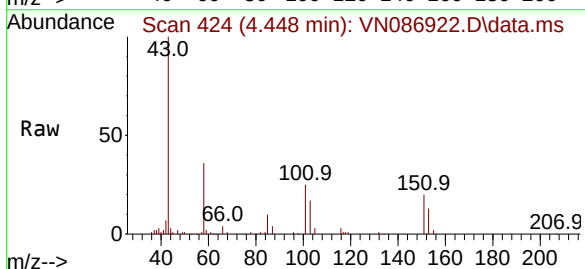
Manual Integrations
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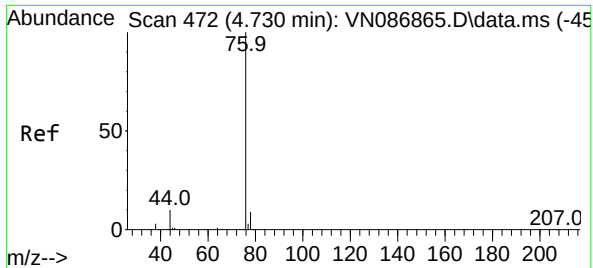
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#16
Acetone
Concen: 173.656 ug/l
RT: 4.448 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

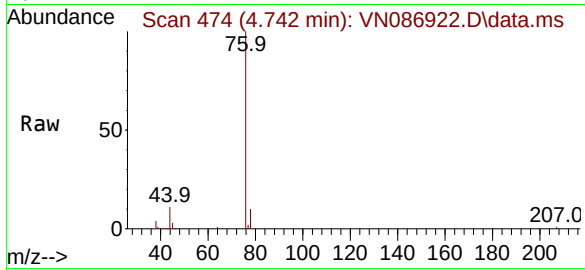
Tgt Ion: 43 Resp: 215008
Ion Ratio Lower Upper
43 100
58 35.8 28.0 42.0





#17
Carbon Disulfide
Concen: 36.571 ug/l
RT: 4.742 min Scan# 472
Delta R.T. 0.012 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

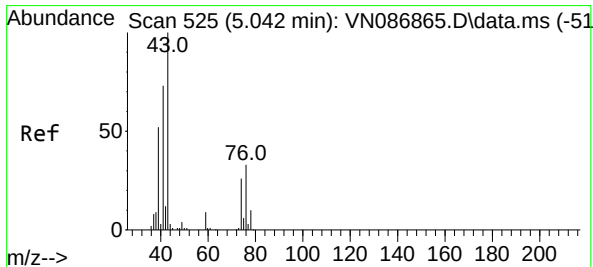
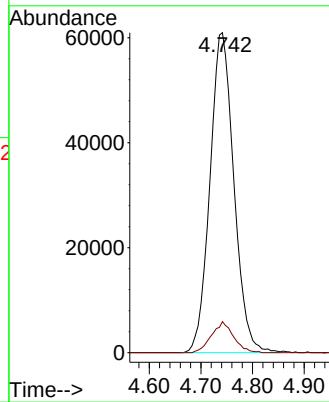
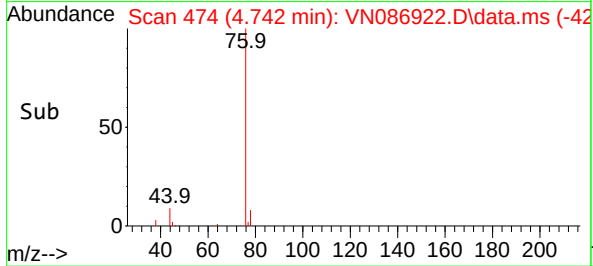
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



Tgt Ion: 76 Resp: 19633
Ion Ratio Lower Upper
76 100
78 9.7 7.3 10.9

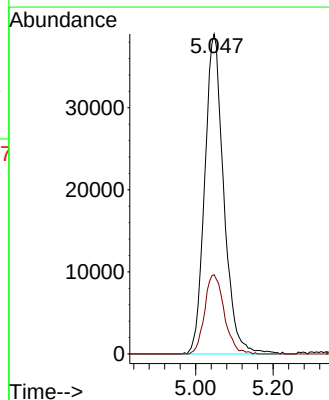
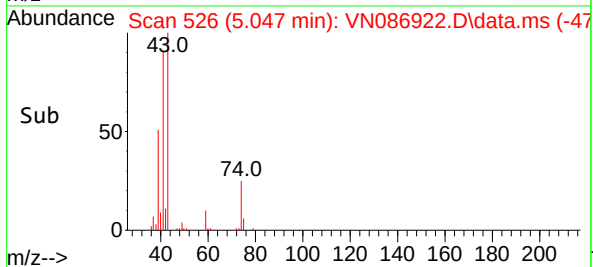
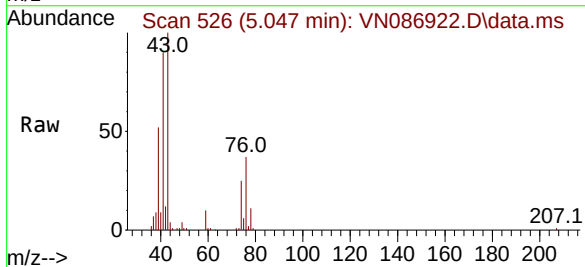
Manual Integrations
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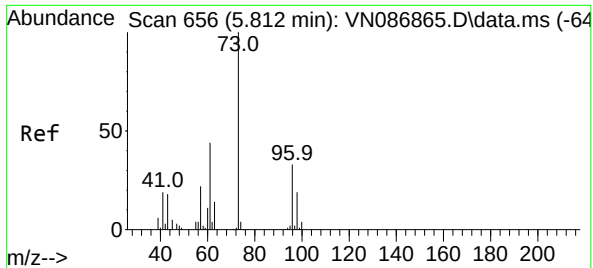
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#18
Methyl Acetate
Concen: 36.798 ug/l
RT: 5.047 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Tgt Ion: 43 Resp: 132769
Ion Ratio Lower Upper
43 100
74 25.5 20.7 31.1





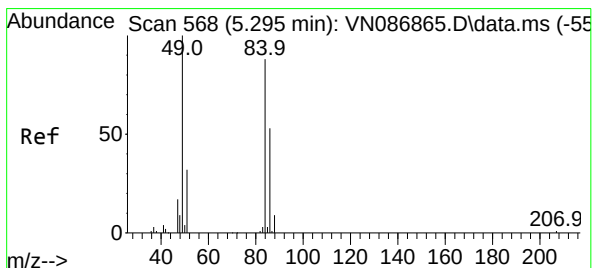
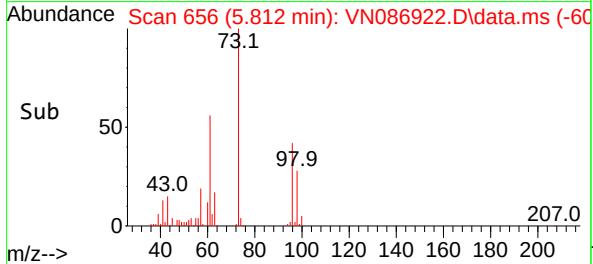
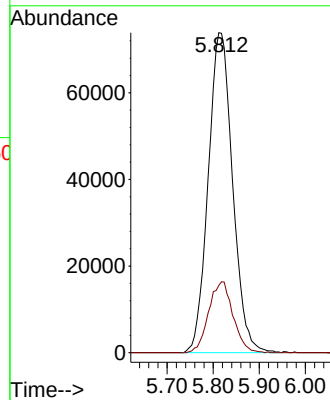
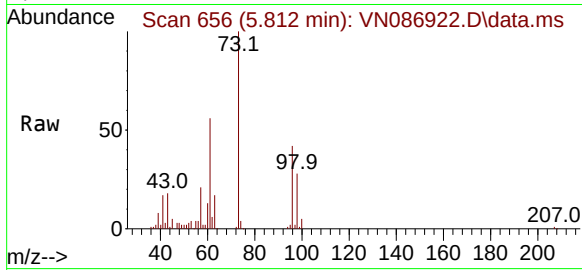
#19
Methyl tert-butyl Ether
Concen: 38.674 ug/l
RT: 5.812 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS

Tgt Ion: 73 Resp: 27178
Ion Ratio Lower Upper
73 100
57 21.0 17.4 26.2

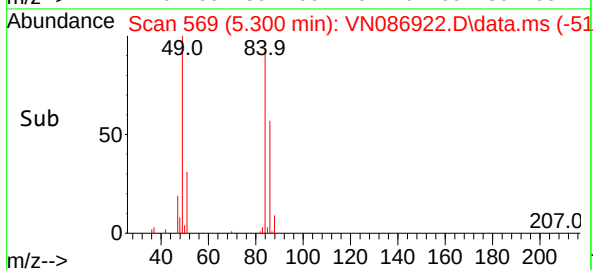
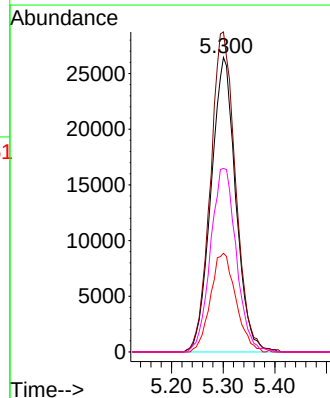
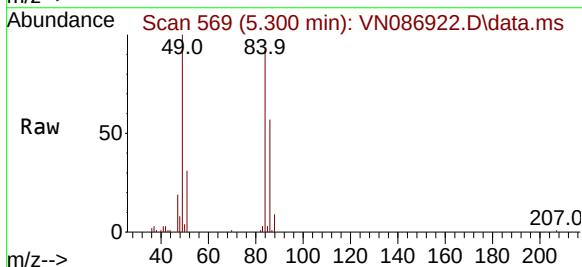
Manual Integrations
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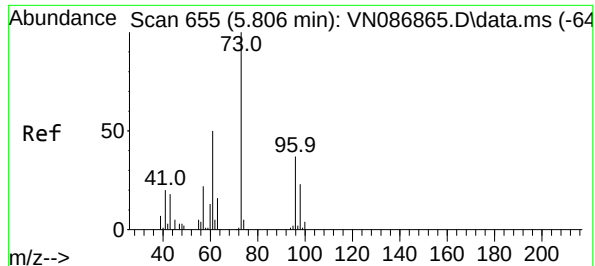
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#20
Methylene Chloride
Concen: 37.857 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

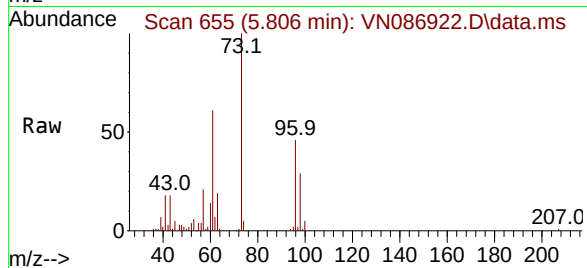
Tgt Ion: 84 Resp: 87753
Ion Ratio Lower Upper
84 100
49 108.7 90.5 135.7
51 33.5 28.5 42.7
86 62.3 48.1 72.1





#21
trans-1,2-Dichloroethene
Concen: 47.566 ug/l
RT: 5.806 min Scan# 614
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

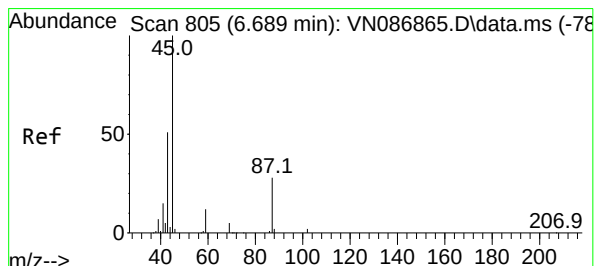
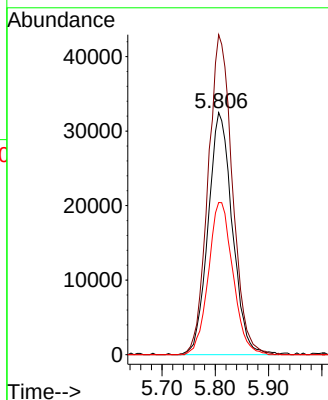
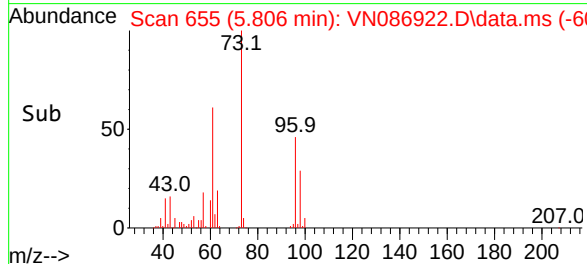
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



Tgt Ion: 96 Resp: 102714
Ion Ratio Lower Upper
96 100
61 132.2 109.2 163.8
98 62.8 49.8 74.8

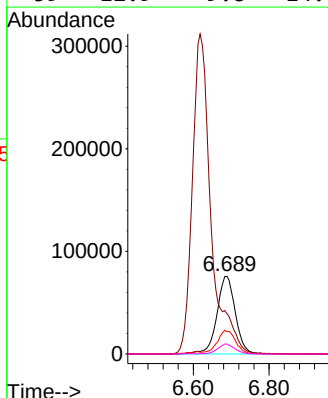
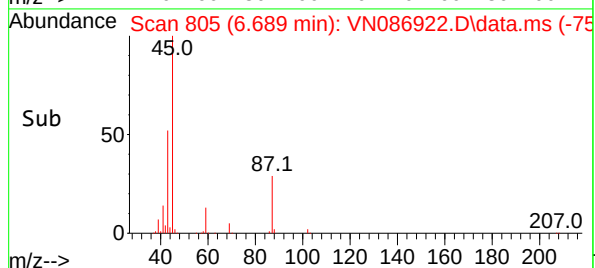
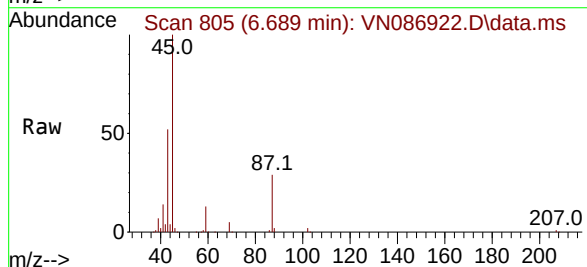
Manual Integrations
APPROVED

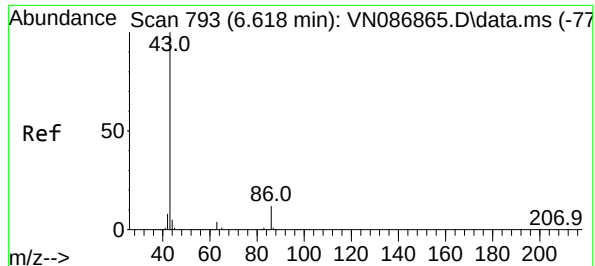
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#22
Diisopropyl ether
Concen: 37.680 ug/l
RT: 6.689 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Tgt Ion: 45 Resp: 255658
Ion Ratio Lower Upper
45 100
43 51.5 41.9 62.9
87 28.6 22.4 33.6
59 12.9 9.8 14.6





#23

Vinyl Acetate

Concen: 185.258 ug/l

RT: 6.618 min Scan# 793

Delta R.T. -0.000 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MS

Tgt Ion: 43 Resp: 106201

Ion Ratio Lower Upper

43

100

86

12.3

9.5

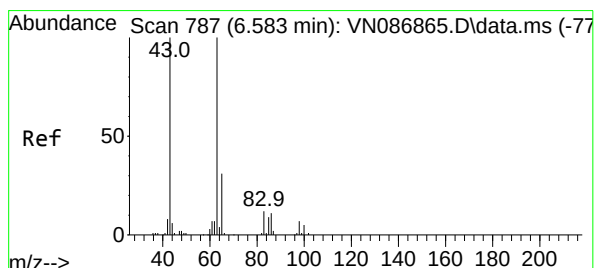
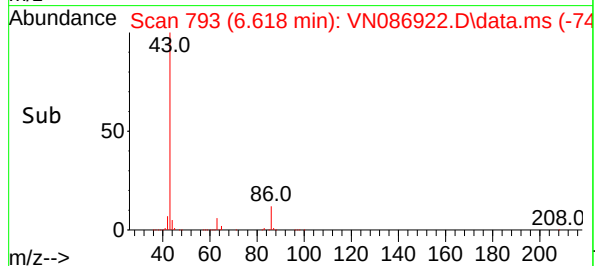
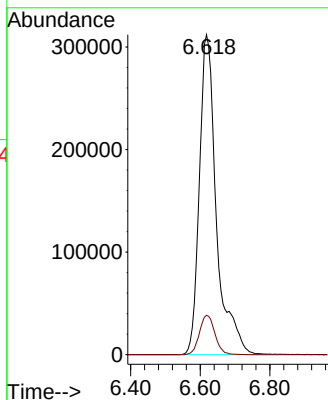
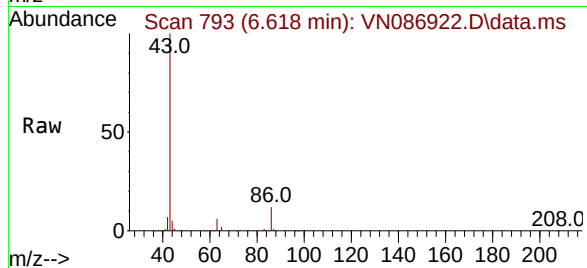
14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#24

1,1-Dichloroethane

Concen: 45.171 ug/l

RT: 6.583 min Scan# 787

Delta R.T. -0.000 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

Tgt Ion: 63 Resp: 176376

Ion Ratio Lower Upper

63

100

98

7.0

3.6

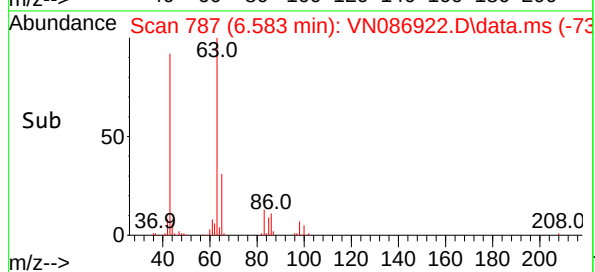
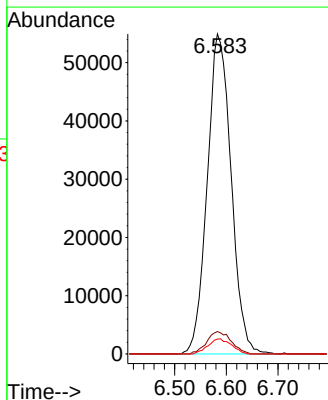
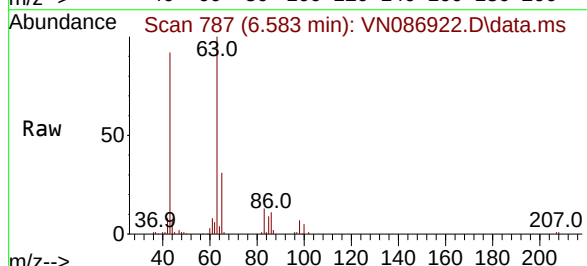
10.8

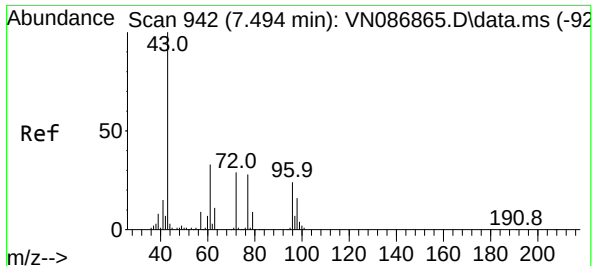
100

4.7

2.6

7.8





#25

2-Butanone

Concen: 181.265 ug/l

RT: 7.494 min Scan# 942

Delta R.T. -0.000 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MS

Tgt Ion: 43 Resp: 36480

Ion Ratio Lower Upper

43 100

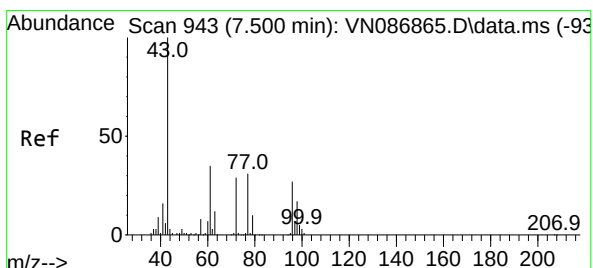
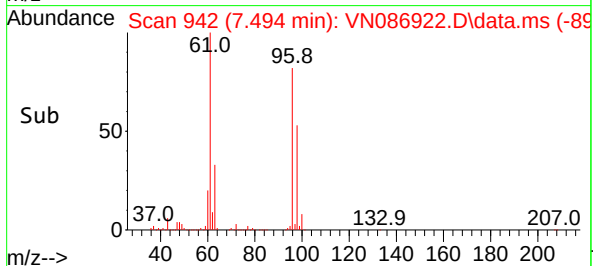
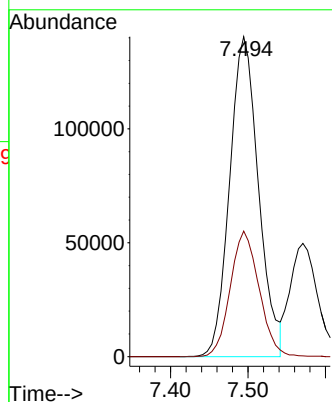
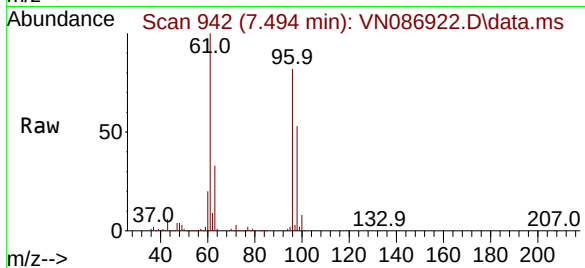
72 39.2 23.0 34.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#26

2,2-Dichloropropane

Concen: 42.301 ug/l

RT: 7.506 min Scan# 944

Delta R.T. 0.006 min

Lab File: VN086922.D

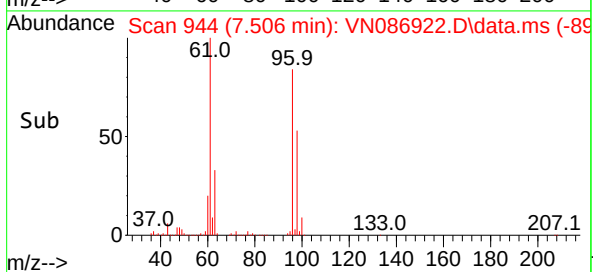
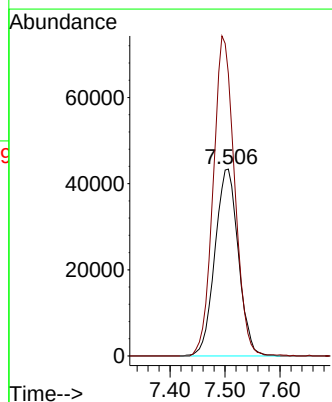
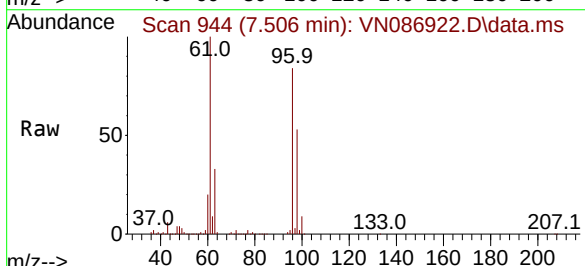
Acq: 10 Jun 2025 12:51

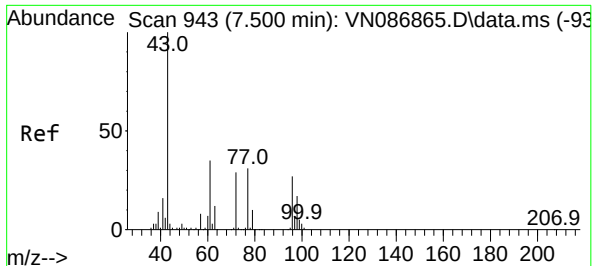
Tgt Ion: 77 Resp: 128482

Ion Ratio Lower Upper

77 100

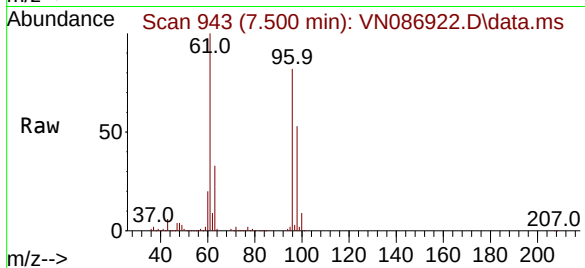
97 156.1 11.6 34.7





#27
cis-1,2-Dichloroethene
Concen: 1879.430 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

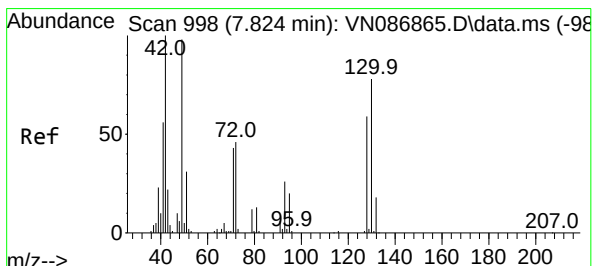
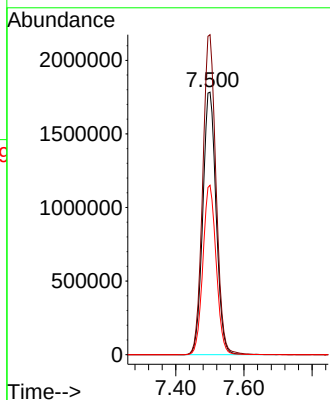
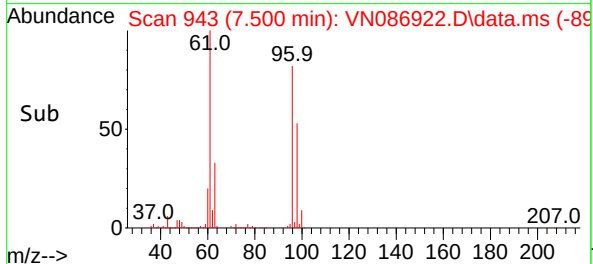
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



Tgt Ion: 96 Resp: 485364
Ion Ratio Lower Upper
96 100
61 121.8 0.0 278.0
98 64.3 0.0 128.2

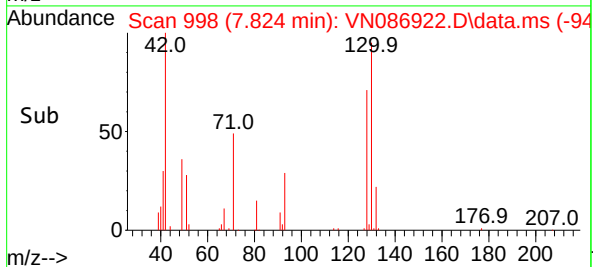
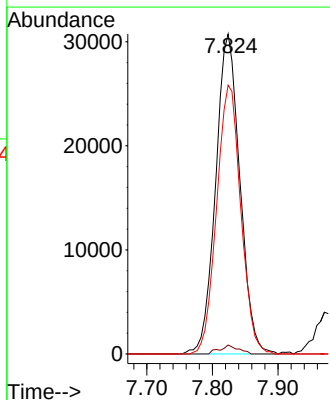
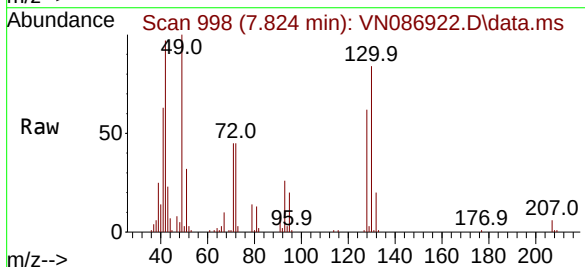
Manual Integrations
APPROVED

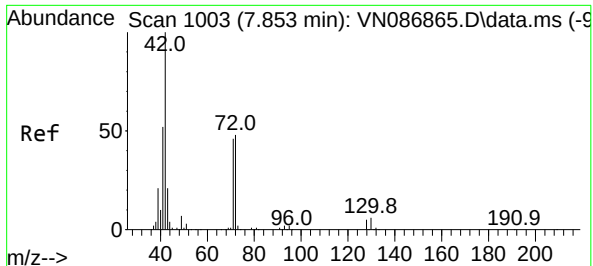
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#28
Bromochloromethane
Concen: 41.044 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Tgt Ion: 49 Resp: 78797
Ion Ratio Lower Upper
49 100
129 2.1 0.0 3.8
130 83.7 62.2 93.2





#29

Tetrahydrofuran

Concen: 182.609 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. -0.006 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

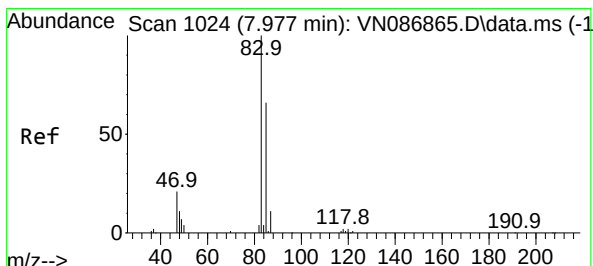
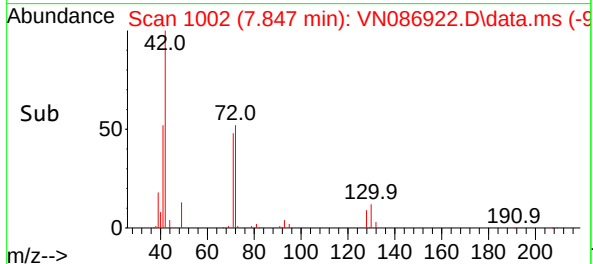
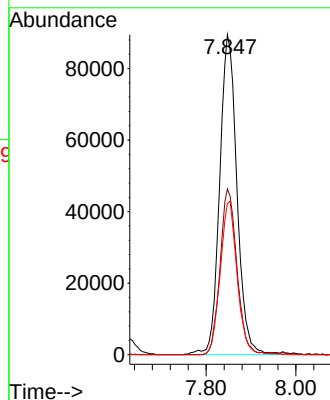
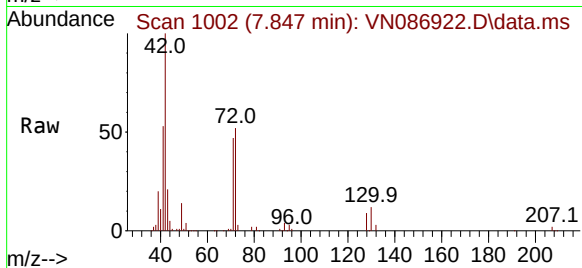
MW-11A-13.5-060525MS

Tgt Ion:	42	Resp:	23940
Ion Ratio	Lower	Upper	
42	100		
72	50.5	37.8	56.6
71	46.9	35.6	53.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#30

Chloroform

Concen: 38.741 ug/l

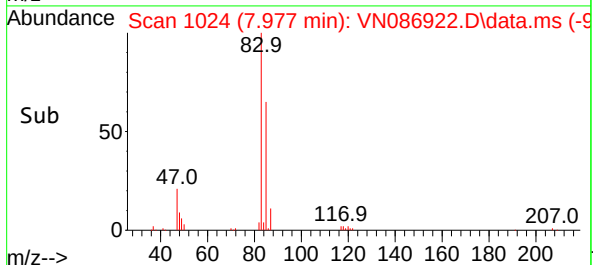
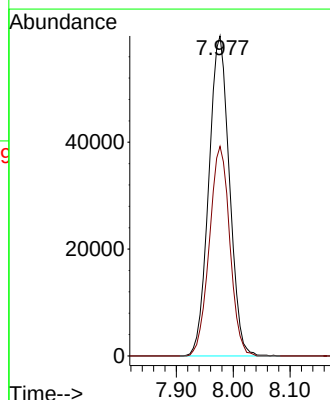
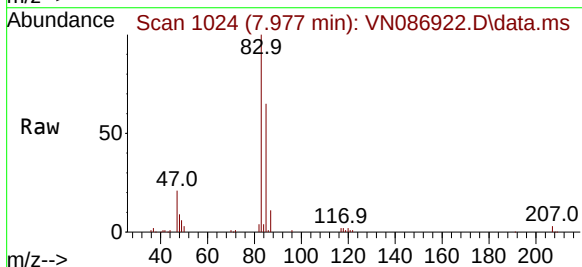
RT: 7.977 min Scan# 1024

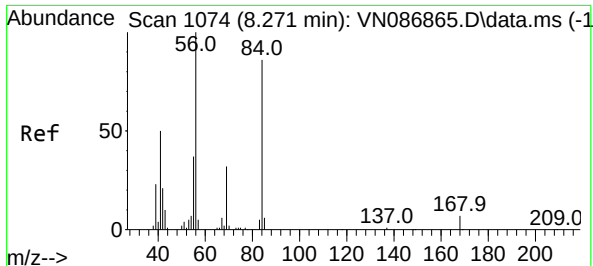
Delta R.T. -0.000 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

Tgt Ion:	83	Resp:	151067
Ion Ratio	Lower	Upper	
83	100		
85	65.5	52.9	79.3





#31

Cyclohexane

Concen: 32.495 ug/l

RT: 8.265 min Scan# 1073

Delta R.T. -0.006 min

Lab File: VN086922.D

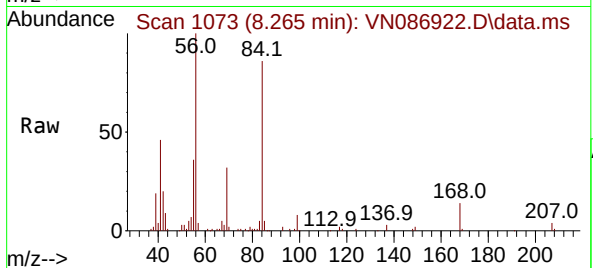
Acq: 10 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MS

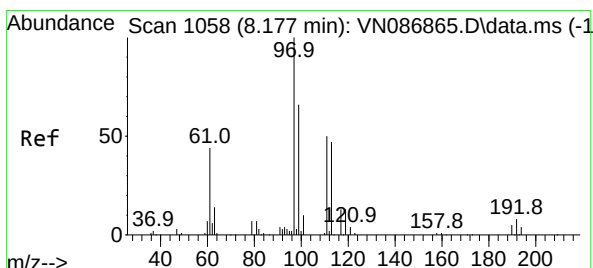
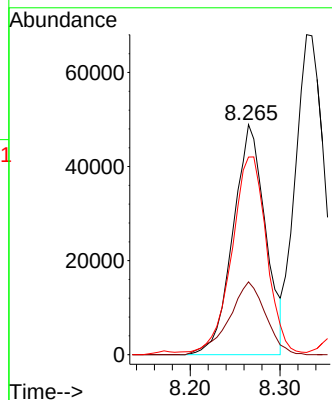
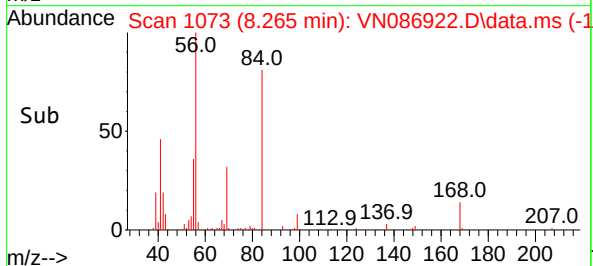


Tgt Ion:	56	69	84	Resp:	12304
Ion Ratio	100	31.6	84.7	Lower	Upper
		25.4	68.8		103.2

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#32

1,1,1-Trichloroethane

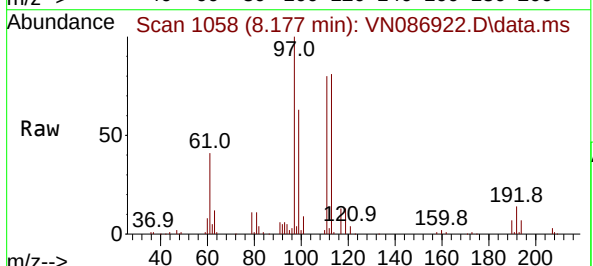
Concen: 37.219 ug/l

RT: 8.177 min Scan# 1058

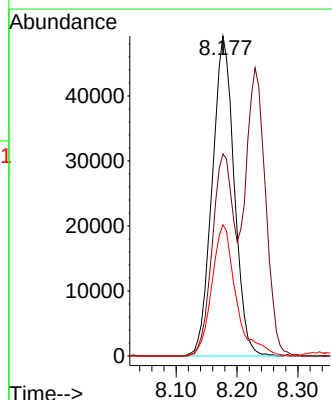
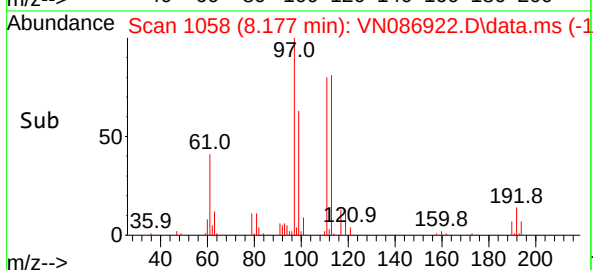
Delta R.T. -0.000 min

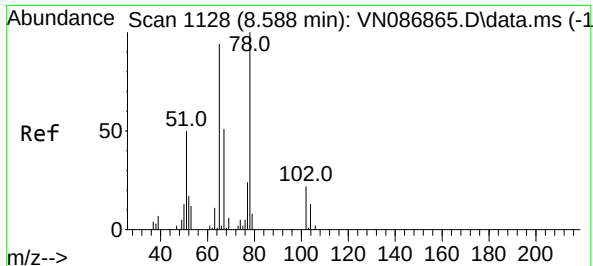
Lab File: VN086922.D

Acq: 10 Jun 2025 12:51



Tgt Ion:	97	99	61	Resp:	123440
Ion Ratio	100	62.0	44.9	Lower	Upper
		52.0	35.9		78.0





#33

1,2-Dichloroethane-d4

Concen: 49.874 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MS

Tgt Ion: 65 Resp: 11644

Ion Ratio Lower Upper

65 100

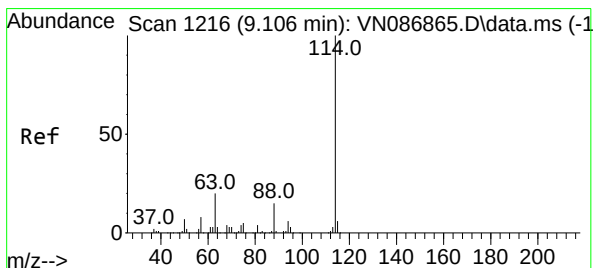
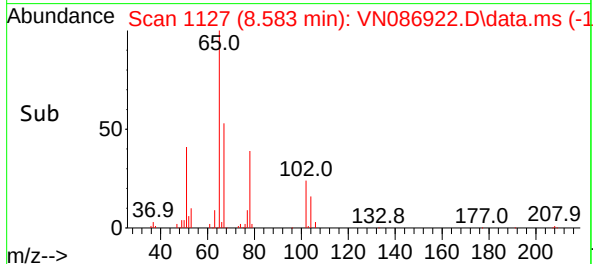
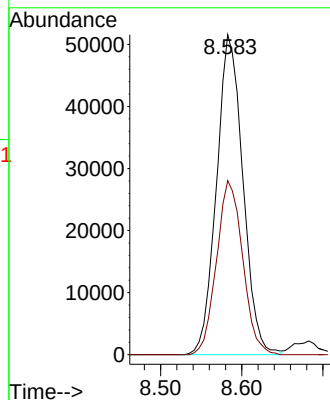
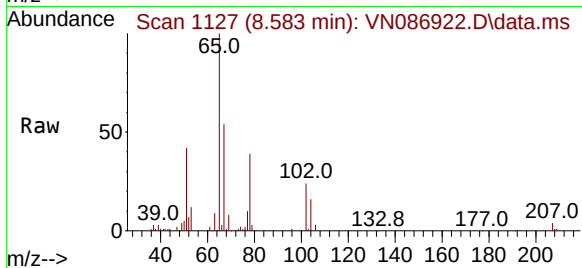
67 54.0 0.0 105.6

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: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

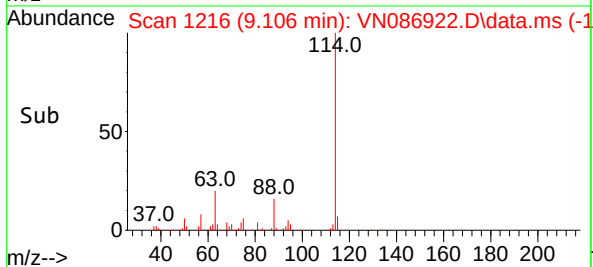
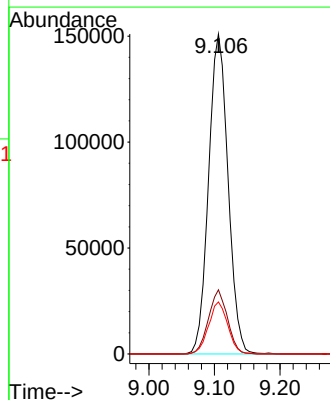
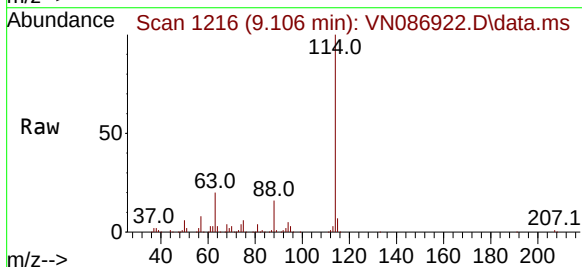
Tgt Ion:114 Resp: 310932

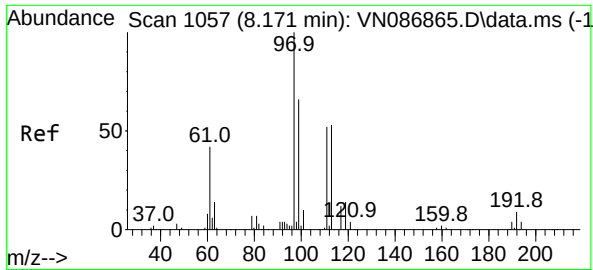
Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.6

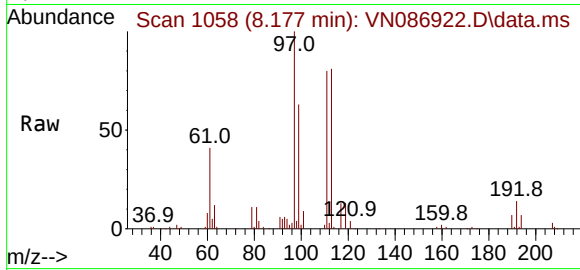
88 16.3 0.0 30.2





#35
Dibromofluoromethane
Concen: 52.373 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

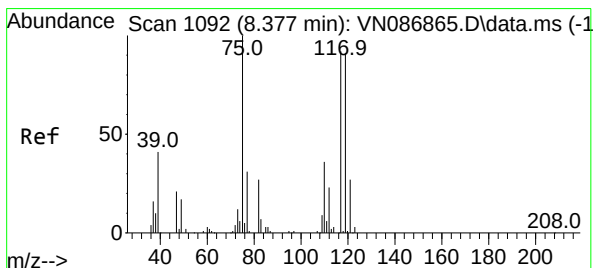
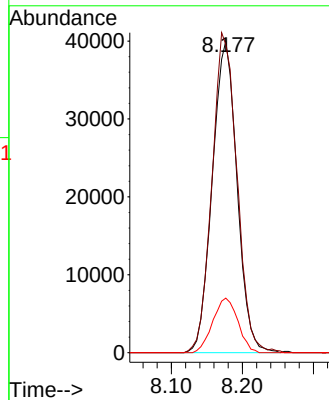
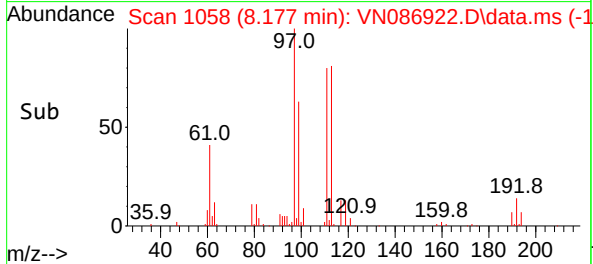
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



Tgt Ion: 113 Resp: 96500
Ion Ratio Lower Upper
113 100
111 103.7 84.2 126.2
192 17.8 14.2 21.4

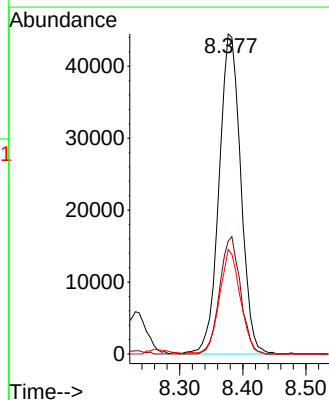
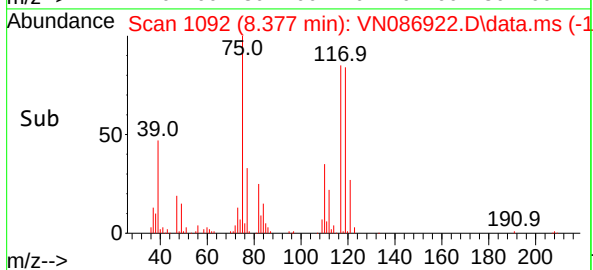
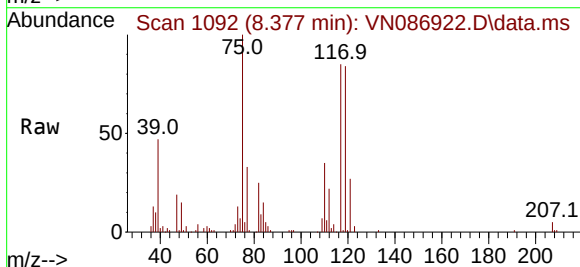
Manual Integrations
APPROVED

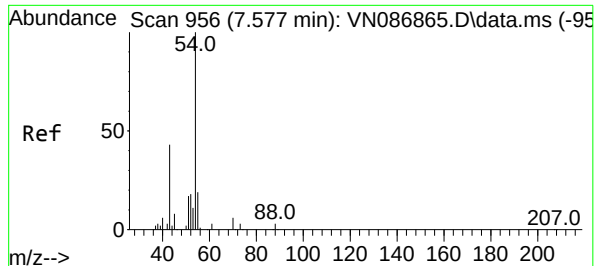
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#36
1,1-Dichloropropene
Concen: 38.635 ug/l
RT: 8.377 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Tgt Ion: 75 Resp: 106081
Ion Ratio Lower Upper
75 100
110 35.0 17.6 52.9
77 31.4 25.3 37.9





#37

Ethyl Acetate

Concen: 36.242 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086922.D

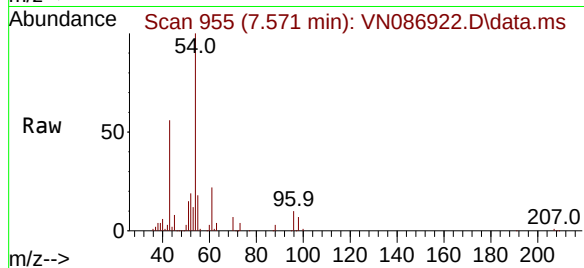
Acq: 10 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MS



Tgt Ion: 43 Resp: 126670

Ion Ratio Lower Upper

43 100

61 0.0 12.1 18.1

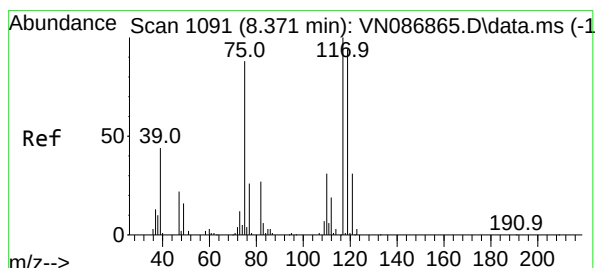
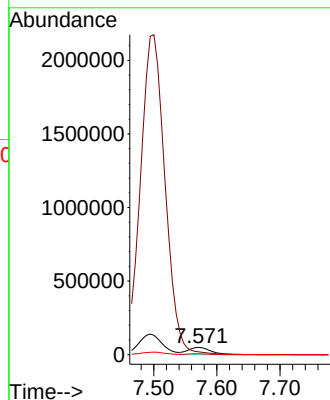
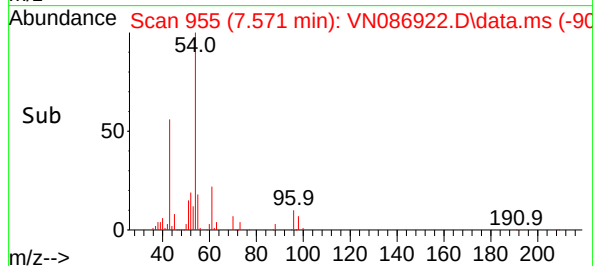
70 12.7 9.8 14.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#38

Carbon Tetrachloride

Concen: 37.897 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

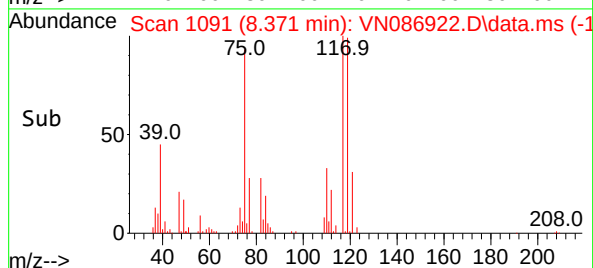
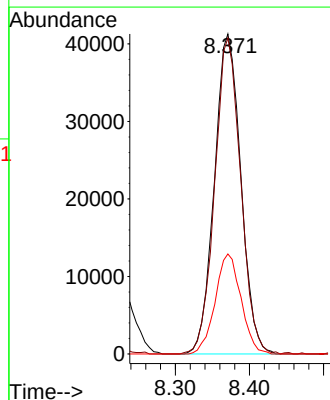
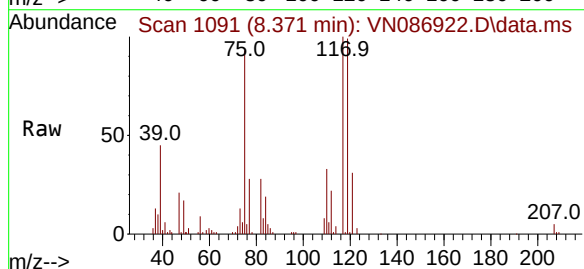
Tgt Ion:117 Resp: 102158

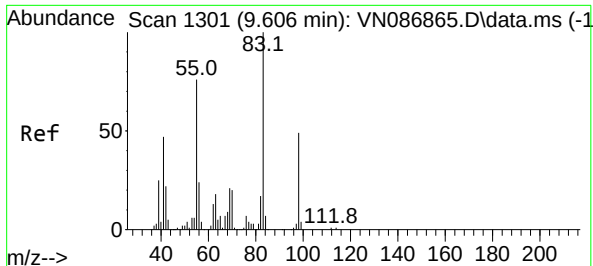
Ion Ratio Lower Upper

117 100

119 98.8 75.0 112.6

121 31.2 24.9 37.3





#39

Methylcyclohexane

Concen: 31.630 ug/l

RT: 9.606 min Scan# 11898

Delta R.T. -0.000 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

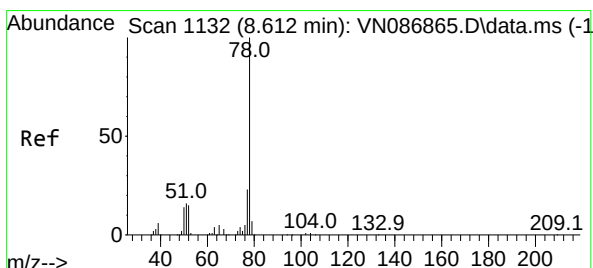
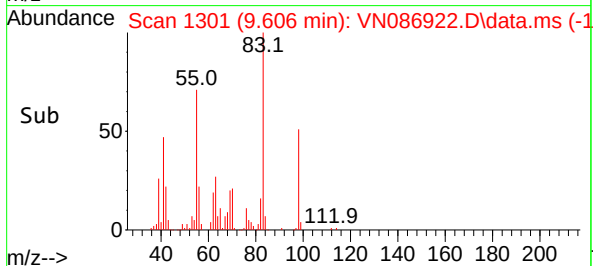
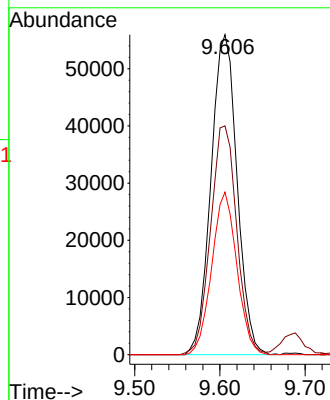
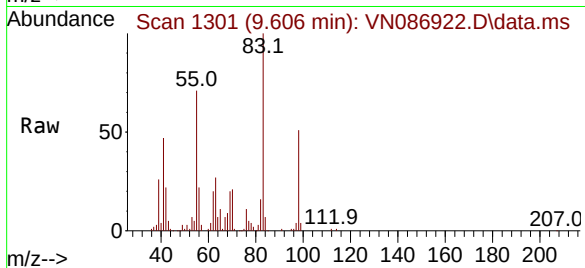
MW-11A-13.5-060525MS

Tgt Ion:	83	Resp:	11898
Ion	Ratio	Lower	Upper
83	100		
55	71.5	61.0	91.6
98	50.8	38.9	58.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#40

Benzene

Concen: 39.099 ug/l

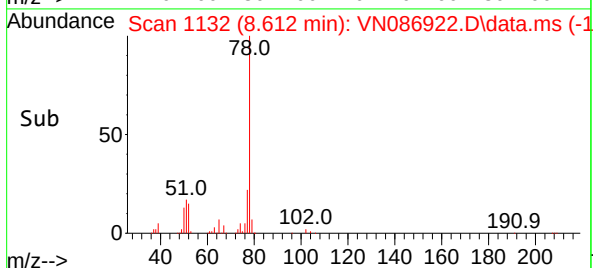
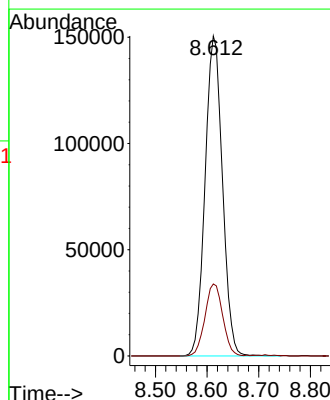
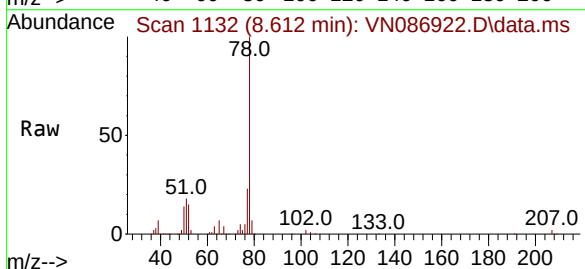
RT: 8.612 min Scan# 1132

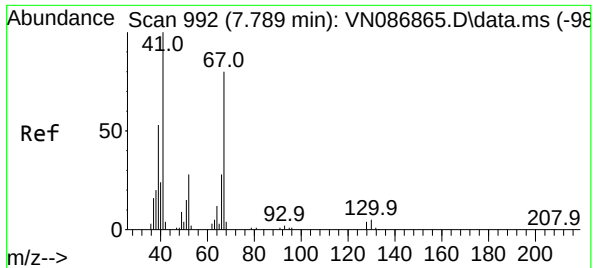
Delta R.T. -0.000 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

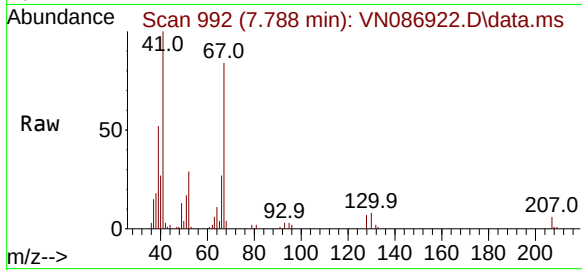
Tgt Ion:	78	Resp:	351060
Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.7	28.1





#41
Methacrylonitrile
Concen: 35.893 ug/l
RT: 7.788 min Scan# 992
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

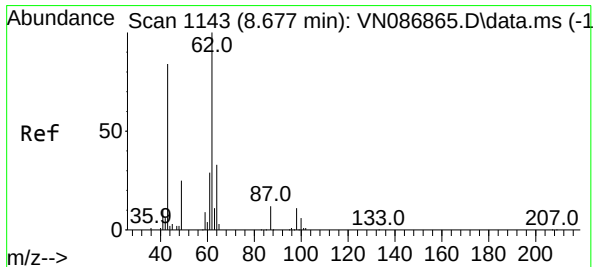
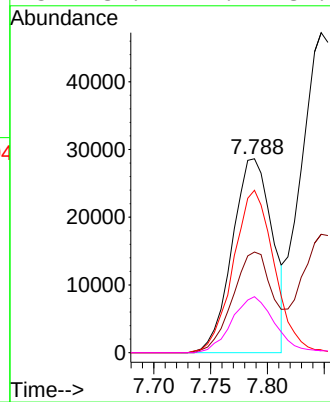
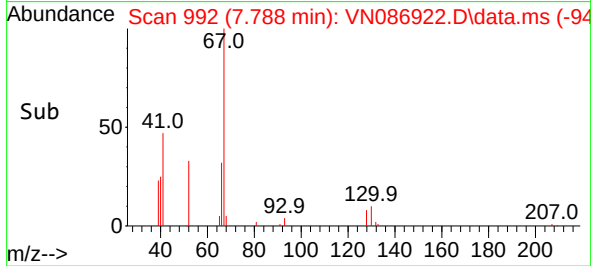
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



Tgt Ion: 41 Resp: 70459
Ion Ratio Lower Upper
41 100
39 51.2 41.2 61.8
67 85.6 61.4 92.2
52 31.1 22.7 34.1

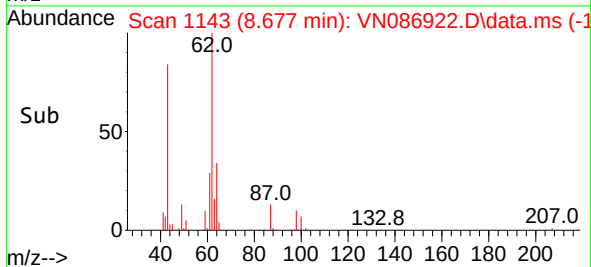
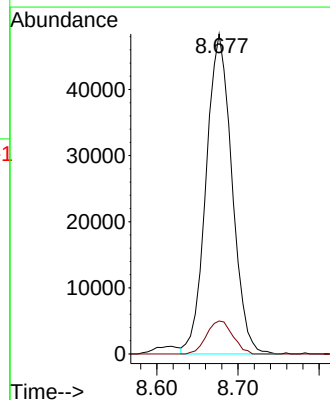
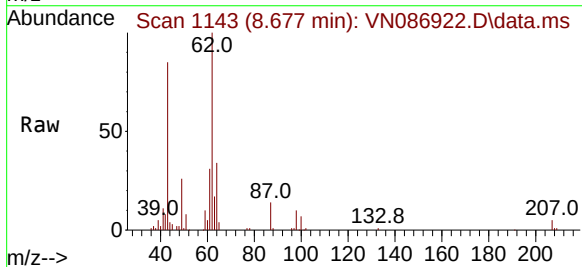
Manual Integrations
APPROVED

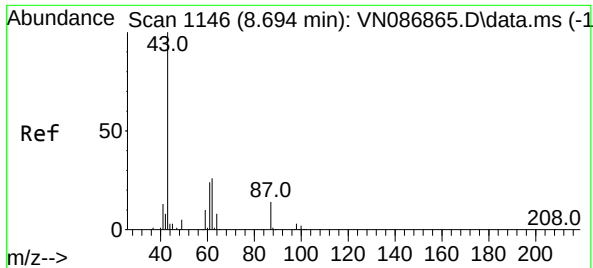
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#42
1,2-Dichloroethane
Concen: 39.279 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

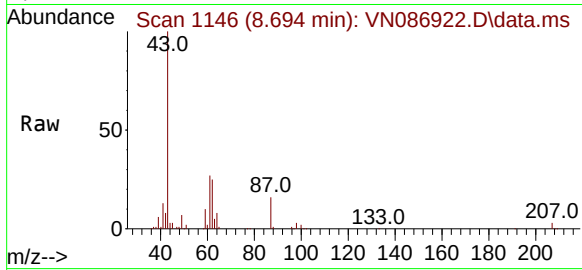
Tgt Ion: 62 Resp: 106970
Ion Ratio Lower Upper
62 100
98 10.4 0.0 21.2





#43
Isopropyl Acetate
Concen: 36.190 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

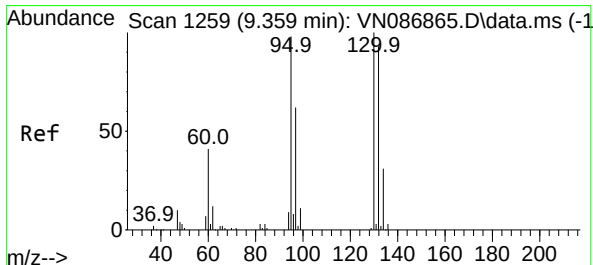
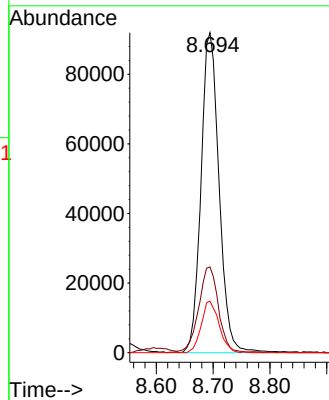
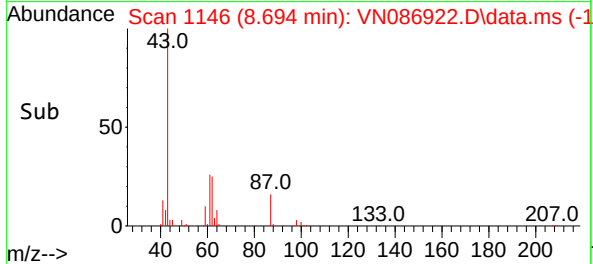
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



Tgt Ion: 43 Resp: 203030
Ion Ratio Lower Upper
43 100
61 28.8 22.1 33.1
87 15.8 11.8 17.6

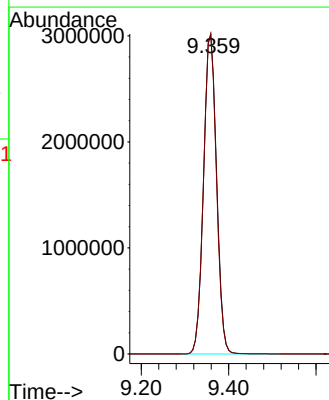
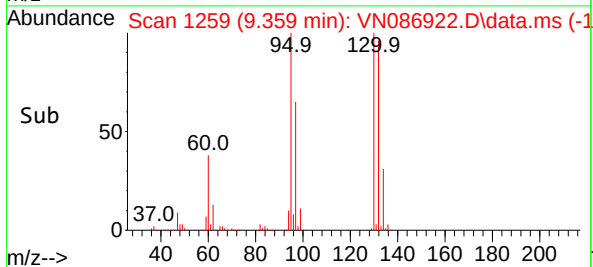
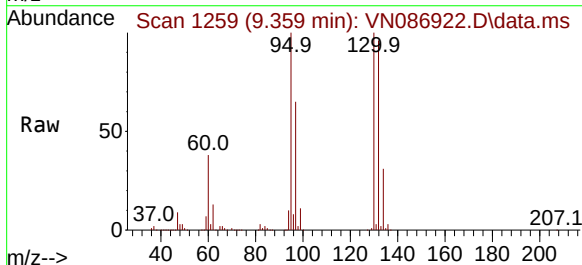
Manual Integrations
APPROVED

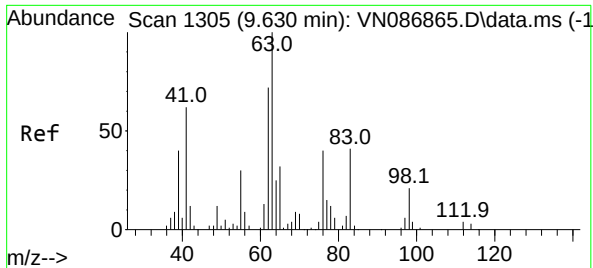
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#44
Trichloroethene
Concen: 2942.351 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Tgt Ion:130 Resp: 6264273
Ion Ratio Lower Upper
130 100
95 99.9 0.0 196.2





#45

1,2-Dichloropropane

Concen: 38.556 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. -0.006 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MS

Tgt Ion: 63 Resp: 84220

Ion Ratio Lower Upper

63 100

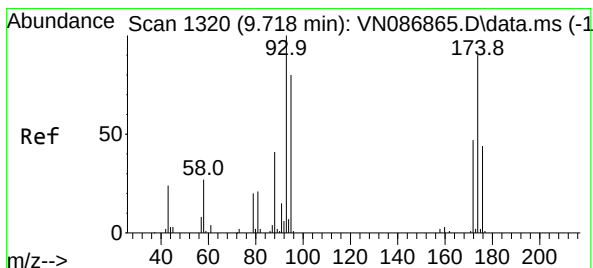
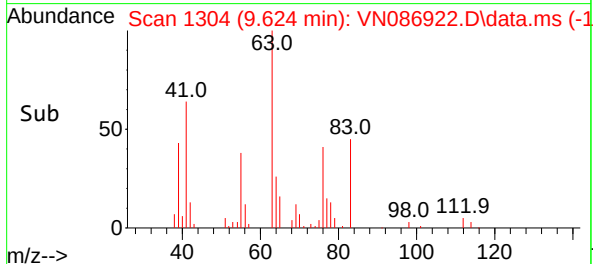
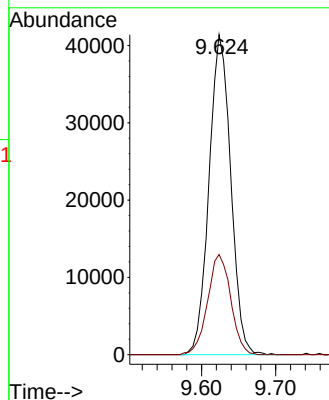
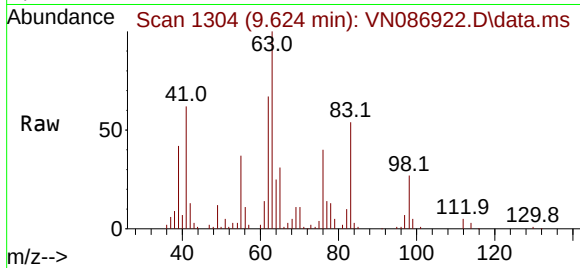
65 31.3 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#46

Dibromomethane

Concen: 40.176 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. -0.006 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

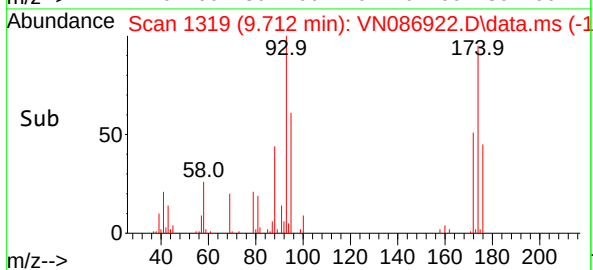
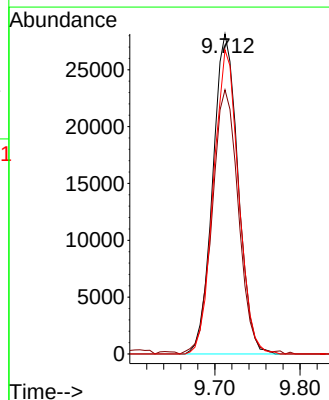
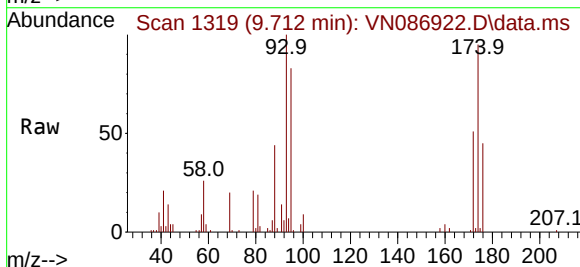
Tgt Ion: 93 Resp: 58291

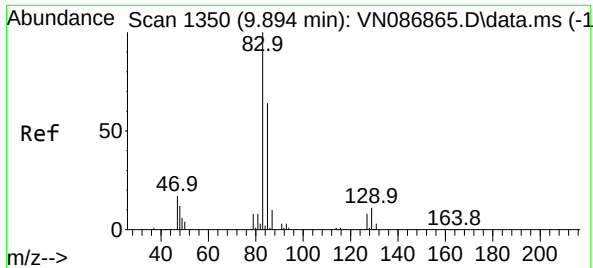
Ion Ratio Lower Upper

93 100

95 85.4 67.1 100.7

174 94.1 74.2 111.4





#47

Bromodichloromethane

Concen: 38.688 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.006 min

Lab File: VN086922.D

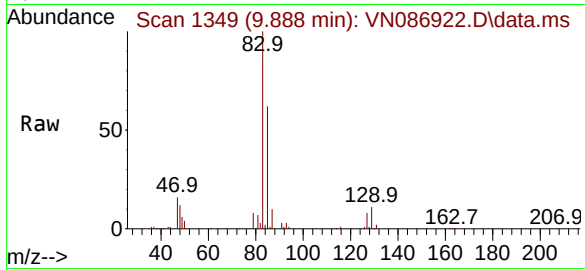
Acq: 10 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MS

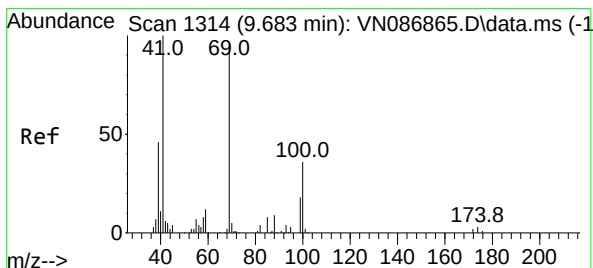
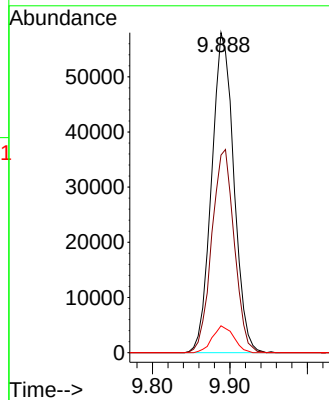
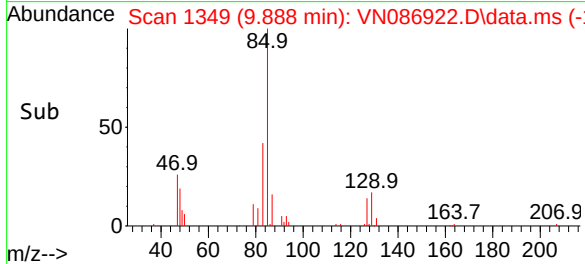


Tgt Ion:	83	Resp:	115490
Ion	Ratio	Lower	Upper
83	100		
85	61.7	50.9	76.3
127	8.4	6.6	10.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#48

Methyl methacrylate

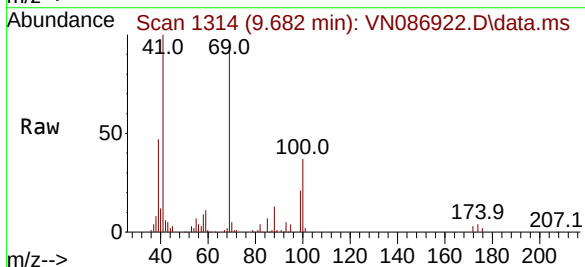
Concen: 36.807 ug/l

RT: 9.682 min Scan# 1314

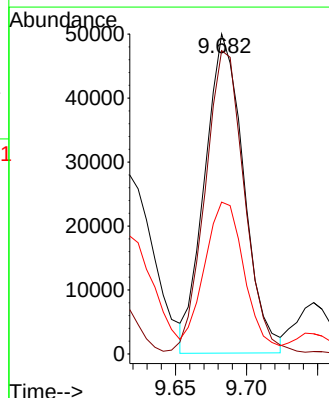
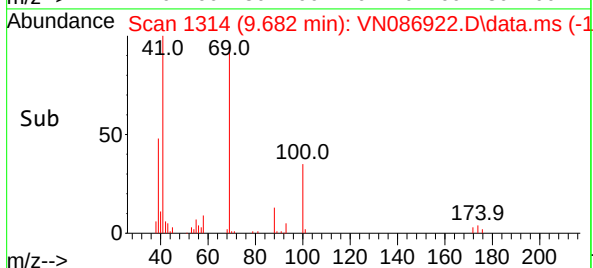
Delta R.T. -0.000 min

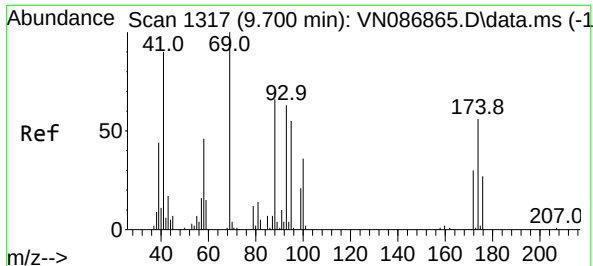
Lab File: VN086922.D

Acq: 10 Jun 2025 12:51



Tgt Ion:	41	Resp:	95039
Ion	Ratio	Lower	Upper
41	100		
69	96.9	74.6	112.0
39	49.8	40.2	60.4





#49

1,4-Dioxane

Concen: 793.544 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MS

Tgt Ion: 88 Resp: 37270

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

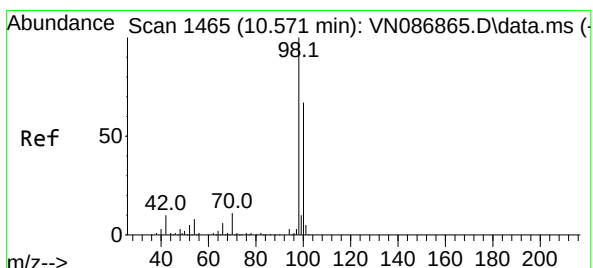
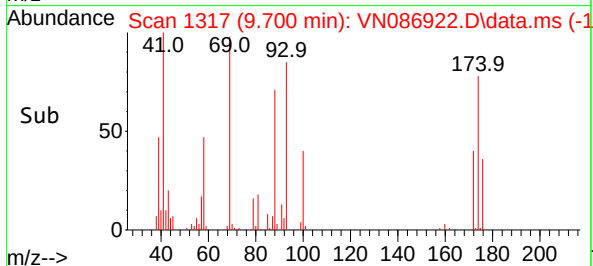
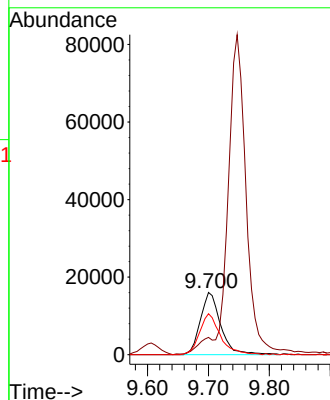
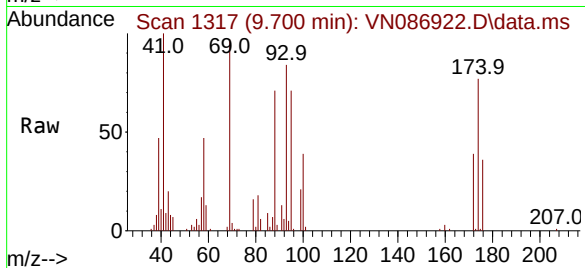
58 67.0 57.7 86.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#50

Toluene-d8

Concen: 51.160 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN086922.D

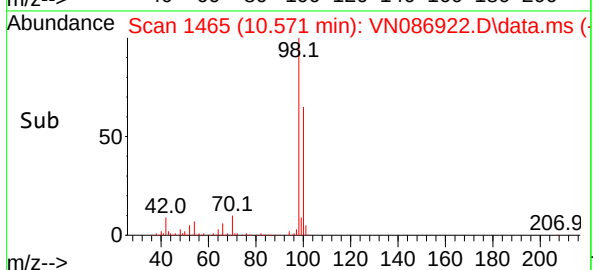
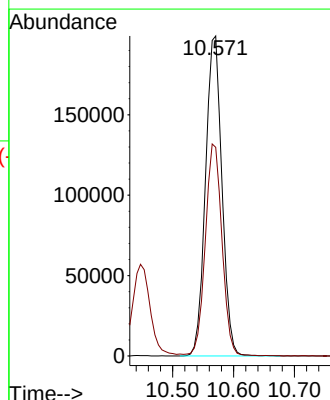
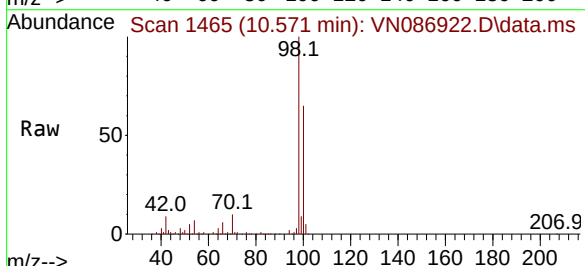
Acq: 10 Jun 2025 12:51

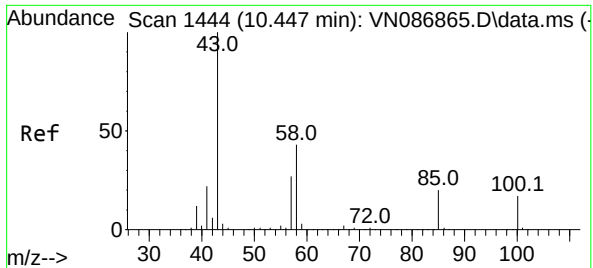
Tgt Ion: 98 Resp: 373191

Ion Ratio Lower Upper

98 100

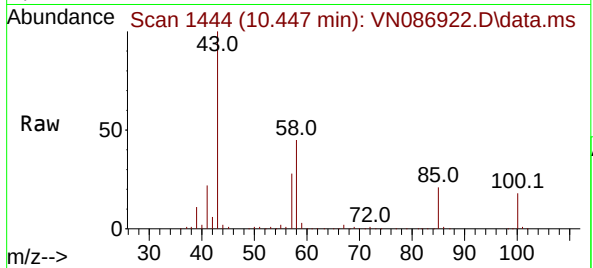
100 67.5 53.4 80.0





#51
4-Methyl-2-Pentanone
Concen: 185.856 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

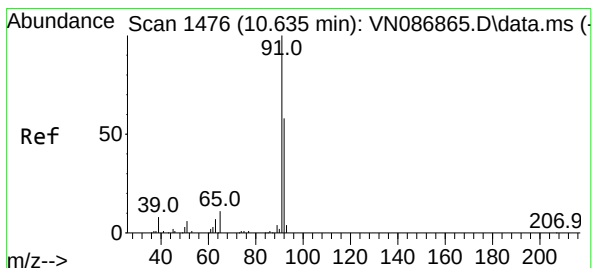
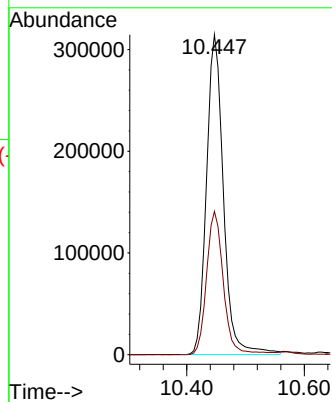
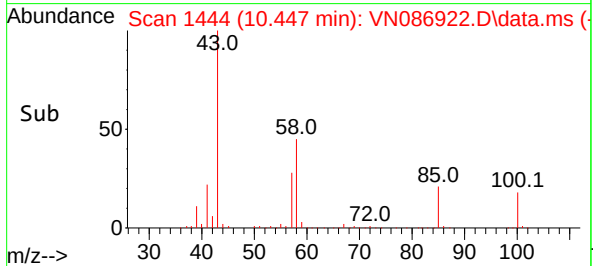
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



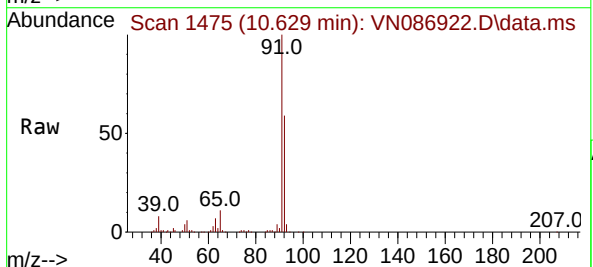
Tgt Ion: 43 Resp: 627690
Ion Ratio Lower Upper
43 100
58 44.6 34.2 51.4

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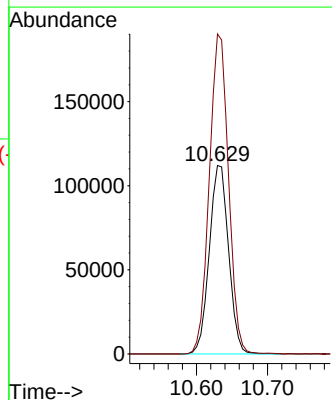
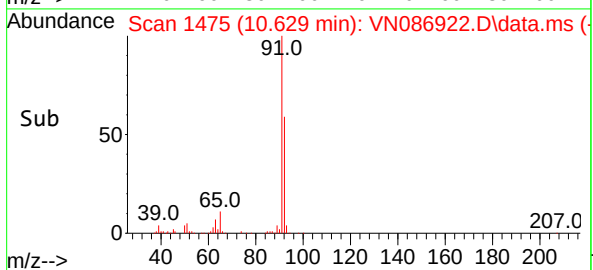
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

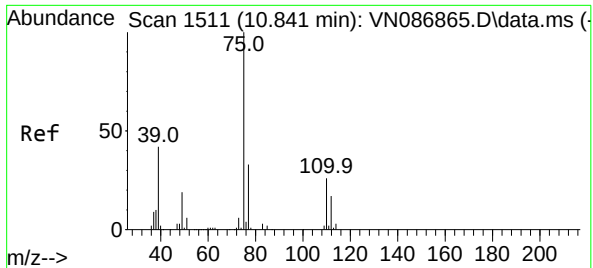


#52
Toluene
Concen: 38.472 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51



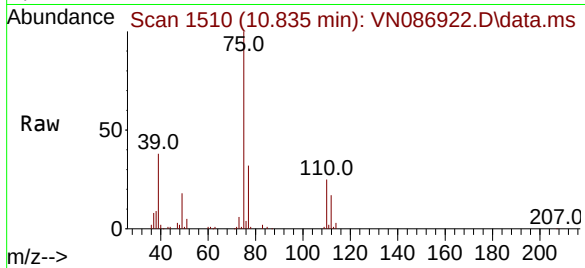
Tgt Ion: 92 Resp: 211099
Ion Ratio Lower Upper
92 100
91 169.0 136.5 204.7





#53
t-1,3-Dichloropropene
Concen: 40.165 ug/l
RT: 10.835 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

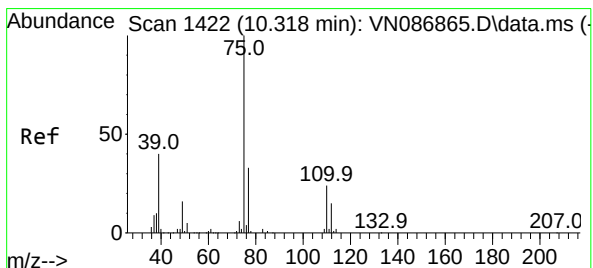
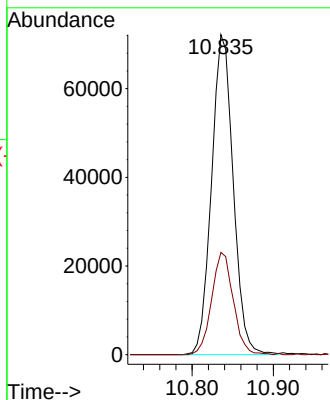
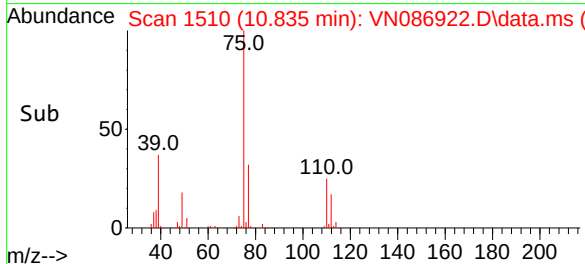
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



Tgt Ion: 75 Resp: 134072
Ion Ratio Lower Upper
75 100
77 31.9 26.4 39.6

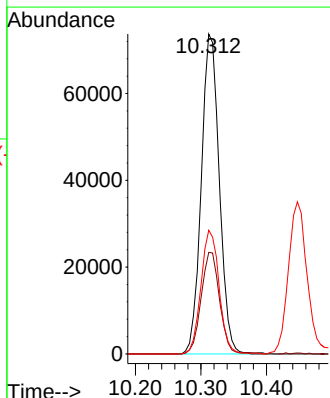
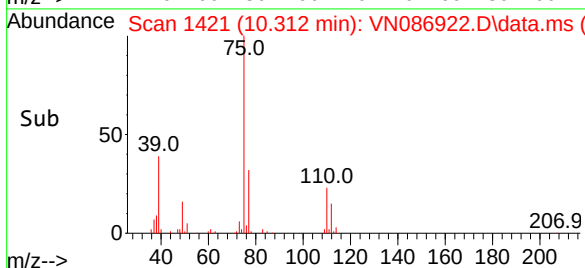
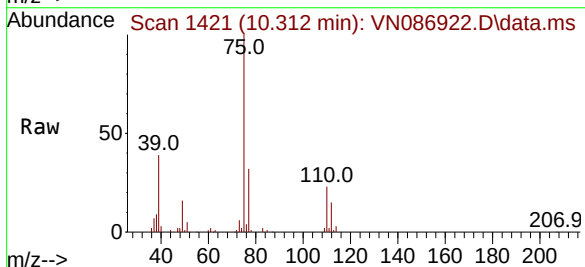
Manual Integrations
APPROVED

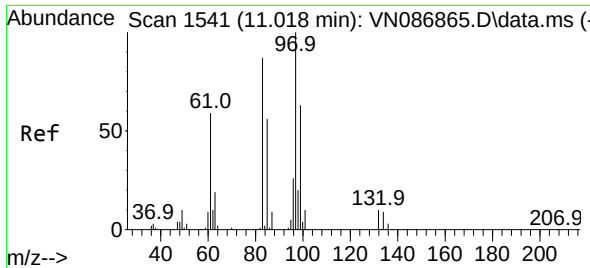
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#54
cis-1,3-Dichloropropene
Concen: 39.524 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

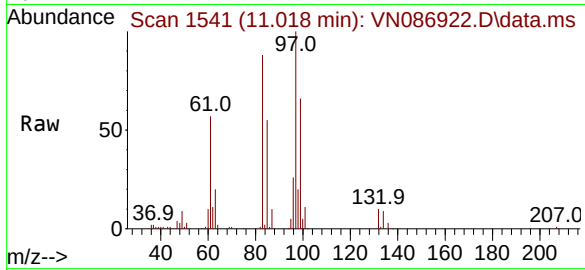
Tgt Ion: 75 Resp: 141166
Ion Ratio Lower Upper
75 100
77 31.8 26.2 39.4
39 38.6 32.3 48.5





#55
1,1,2-Trichloroethane
Concen: 40.047 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

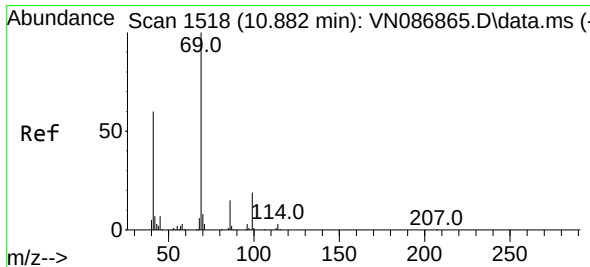
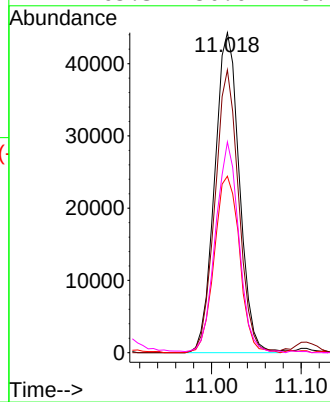
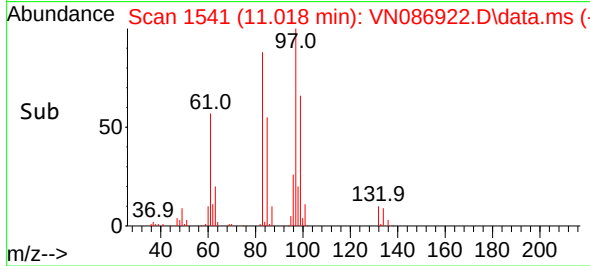
Instrument : MSVOA_N
ClientSampleId : MW-11A-13.5-060525MS



Tgt Ion: 97 Resp: 8455
Ion Ratio Lower Upper
97 100
83 88.3 69.7 104.5
85 55.1 45.1 67.7
99 65.3 50.6 75.8

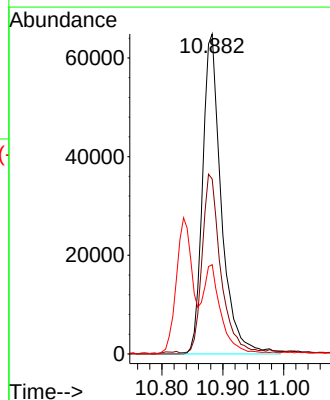
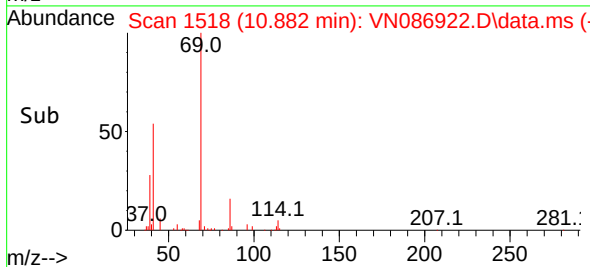
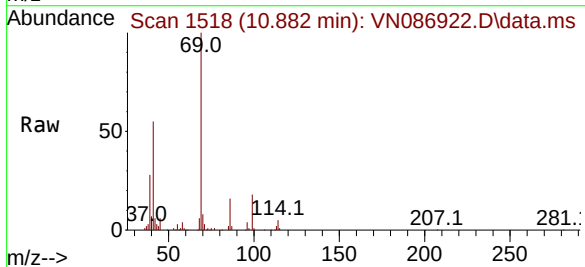
Manual Integrations
APPROVED

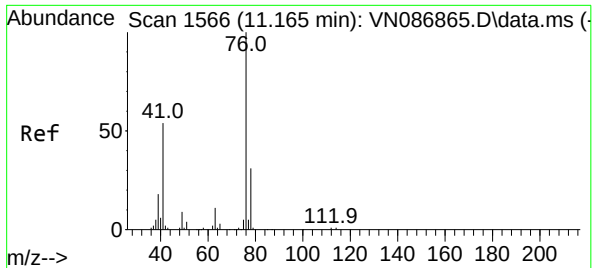
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#56
Ethyl methacrylate
Concen: 41.269 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Tgt Ion: 69 Resp: 138783
Ion Ratio Lower Upper
69 100
41 55.4 47.2 70.8
39 25.7 23.0 34.6





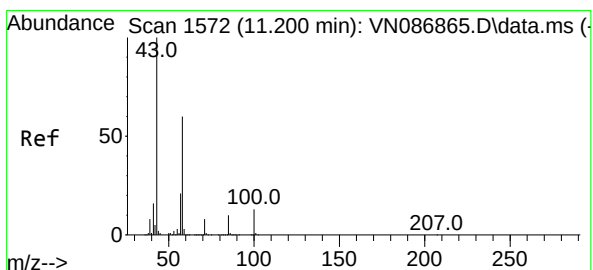
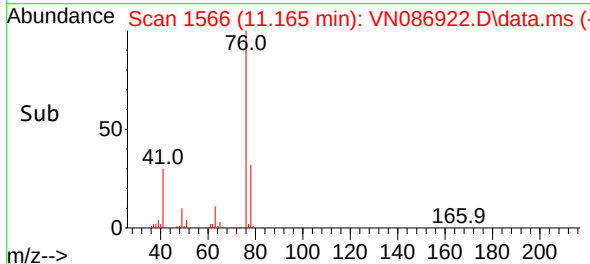
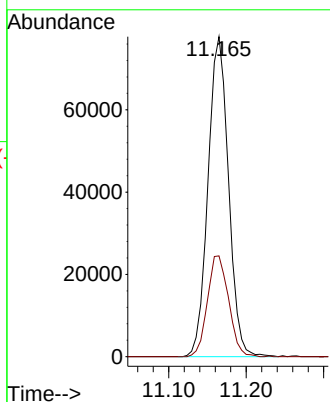
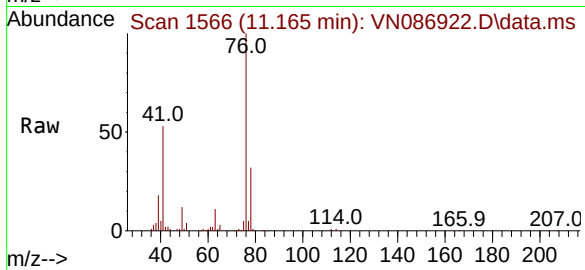
#57
1,3-Dichloropropane
Concen: 38.991 ug/l
RT: 11.165 min Scan# 1566
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS

Tgt Ion: 76 Resp: 142808
Ion Ratio Lower Upper
76 100
78 32.6 25.3 37.9

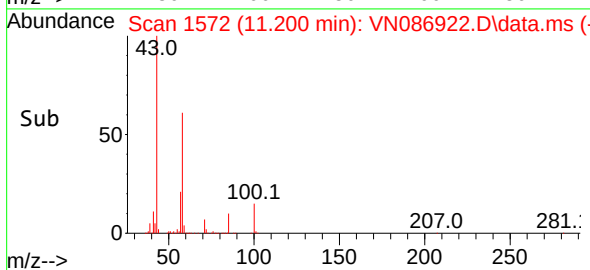
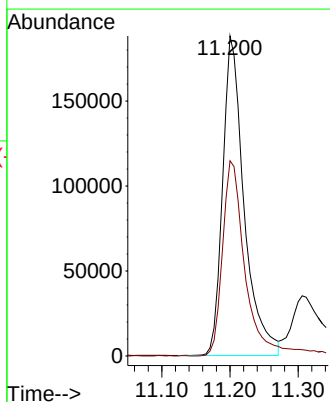
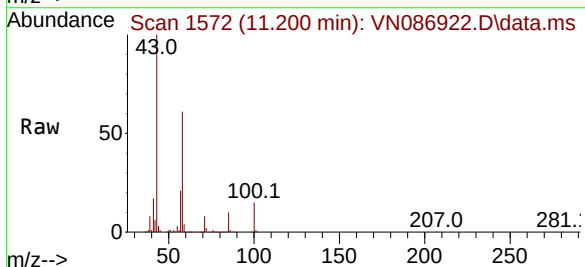
Manual Integrations
APPROVED

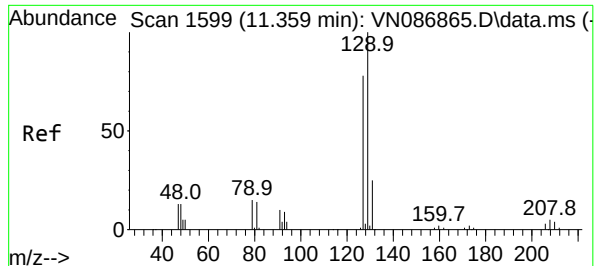
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#59
2-Hexanone
Concen: 188.796 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

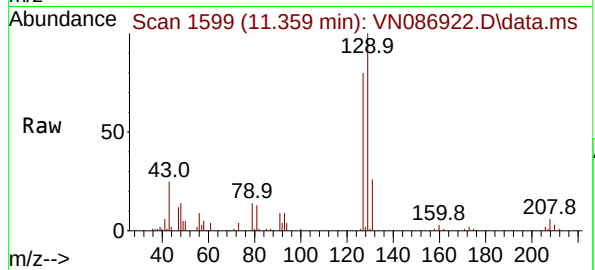
Tgt Ion: 43 Resp: 410712
Ion Ratio Lower Upper
43 100
58 65.8 30.4 91.3





#60
Dibromochloromethane
Concen: 40.264 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

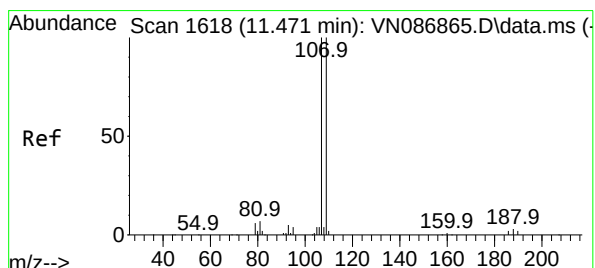
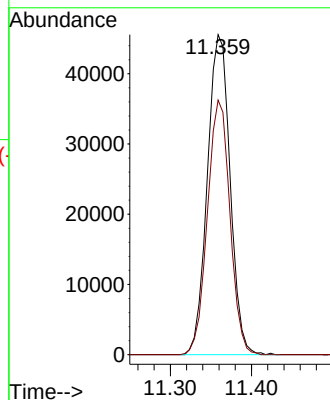
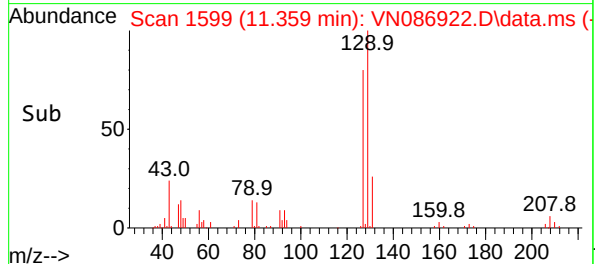
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



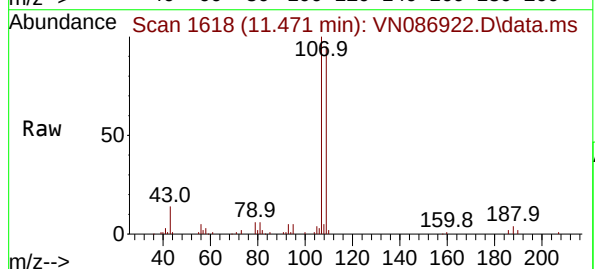
Tgt Ion:129 Resp: 8857
Ion Ratio Lower Upper
129 100
127 78.8 38.6 115.8

Manual Integrations
APPROVED

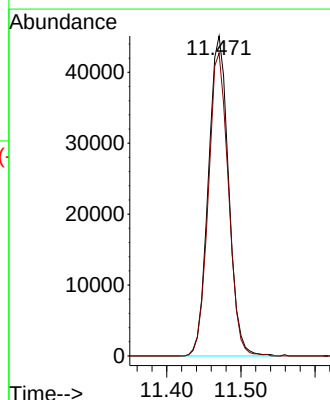
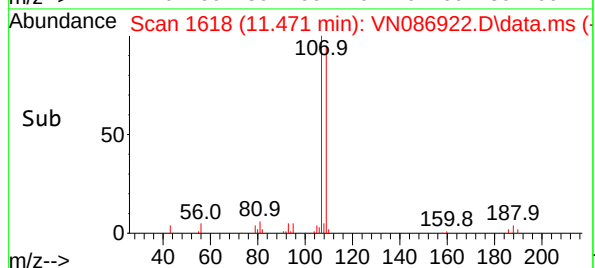
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

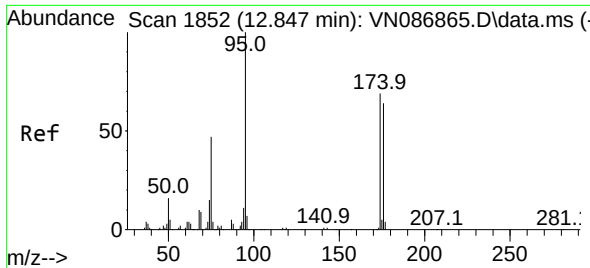


#61
1,2-Dibromoethane
Concen: 39.485 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51



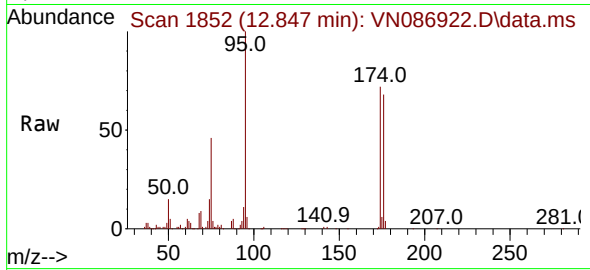
Tgt Ion:107 Resp: 85449
Ion Ratio Lower Upper
107 100
109 93.7 76.3 114.5





#62
4-Bromofluorobenzene
Concen: 50.932 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

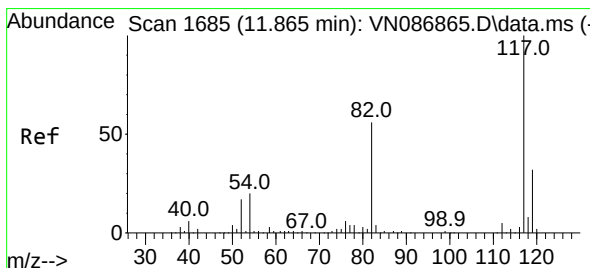
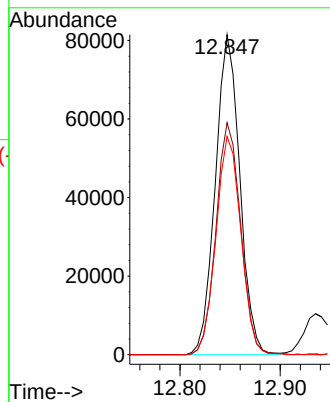
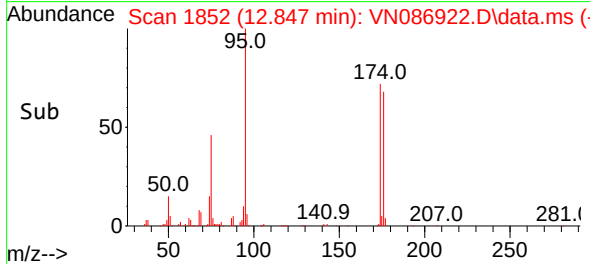
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



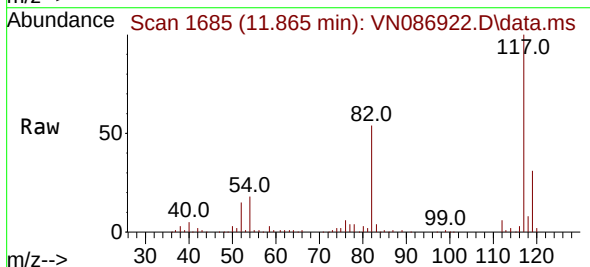
Tgt Ion: 95 Resp: 138034
Ion Ratio Lower Upper
95 100
174 72.8 0.0 141.8
176 69.6 0.0 132.6

Manual Integrations
APPROVED

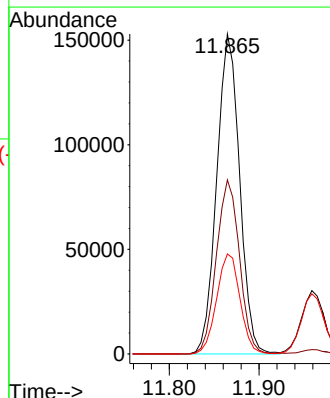
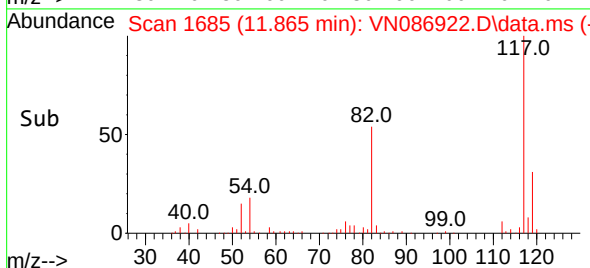
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

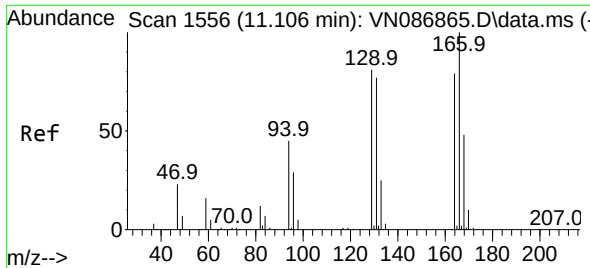


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51



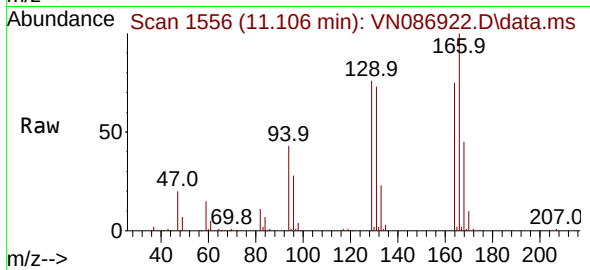
Tgt Ion:117 Resp: 270945
Ion Ratio Lower Upper
117 100
82 54.4 44.6 67.0
119 31.3 25.5 38.3





#64
Tetrachloroethene
Concen: 57.032 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

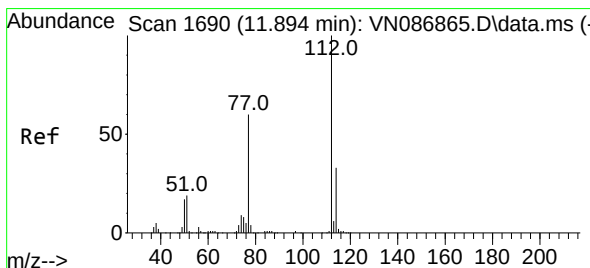
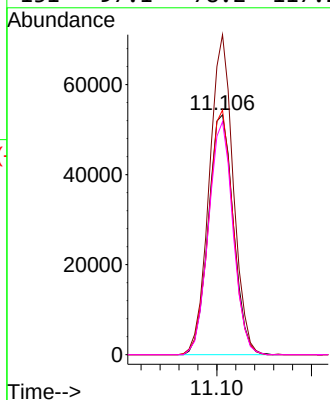
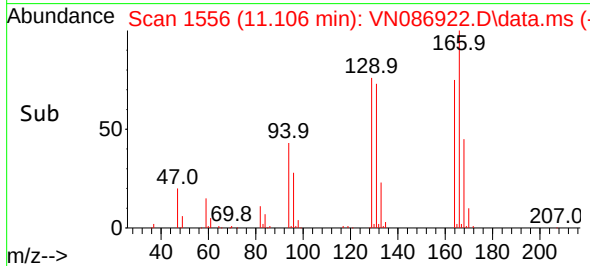
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



Tgt Ion:164 Resp: 9779
Ion Ratio Lower Upper
164 100
166 133.4 101.8 152.8
129 102.0 83.0 124.4
131 97.1 78.2 117.2

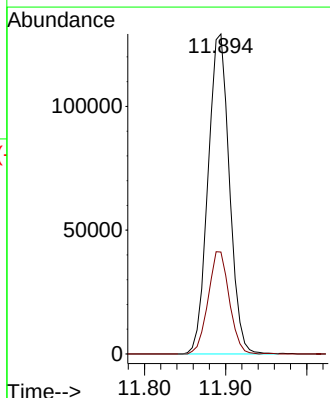
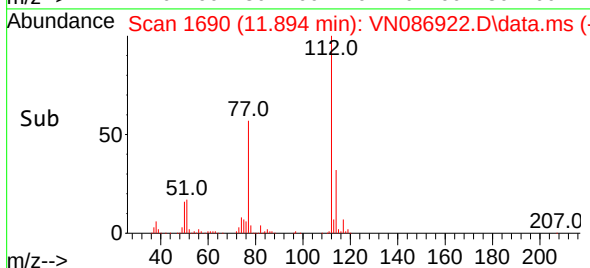
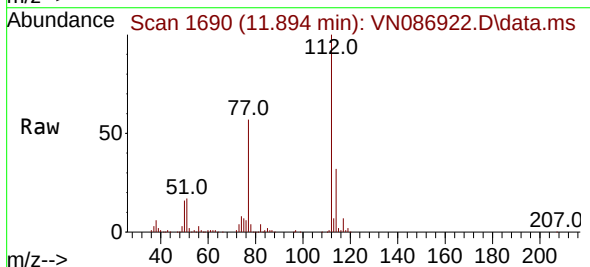
Manual Integrations
APPROVED

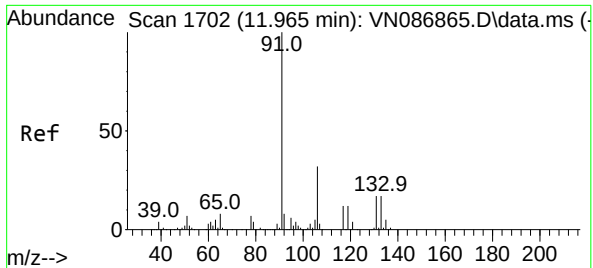
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#65
Chlorobenzene
Concen: 39.523 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

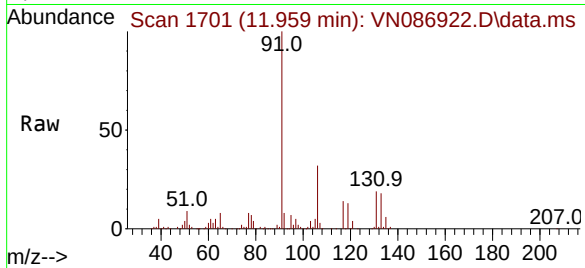
Tgt Ion:112 Resp: 236181
Ion Ratio Lower Upper
112 100
114 31.8 26.2 39.2





#66
1,1,1,2-Tetrachloroethane
Concen: 38.896 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

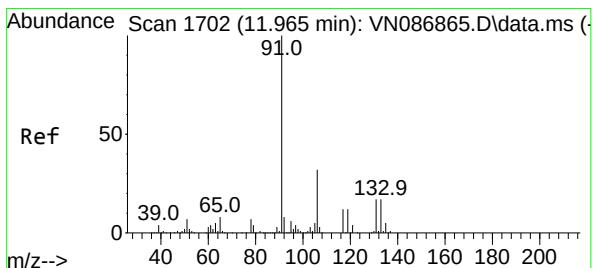
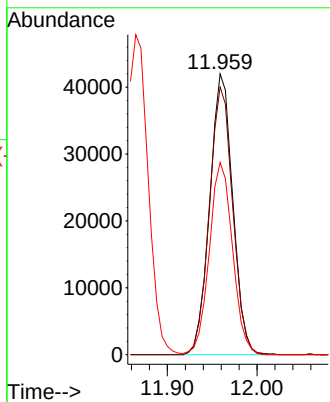
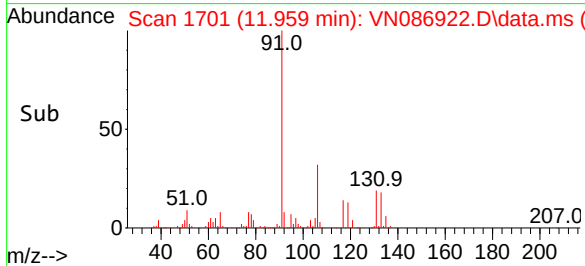
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



Tgt Ion:131 Resp: 7471
Ion Ratio Lower Upper
131 100
133 96.9 48.3 144.8
119 69.1 34.0 101.8

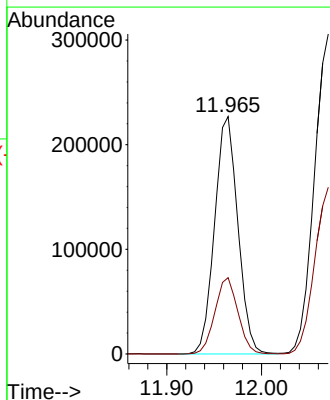
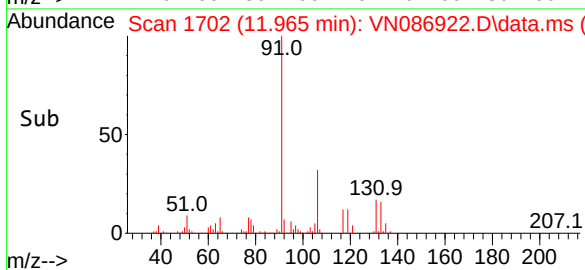
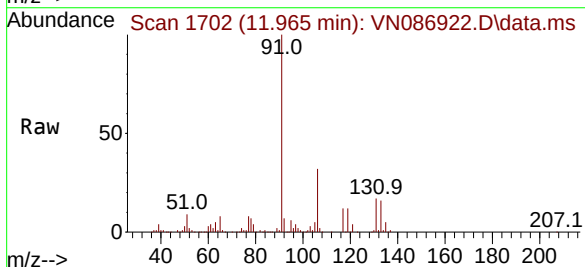
Manual Integrations
APPROVED

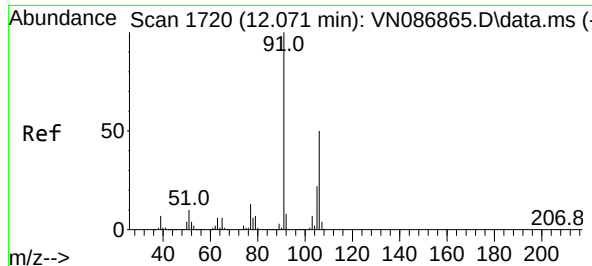
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#67
Ethyl Benzene
Concen: 37.621 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

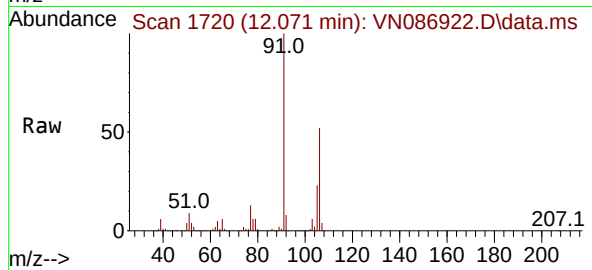
Tgt Ion: 91 Resp: 387237
Ion Ratio Lower Upper
91 100
106 32.1 25.4 38.2





#68
m/p-Xylenes
Concen: 77.607 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

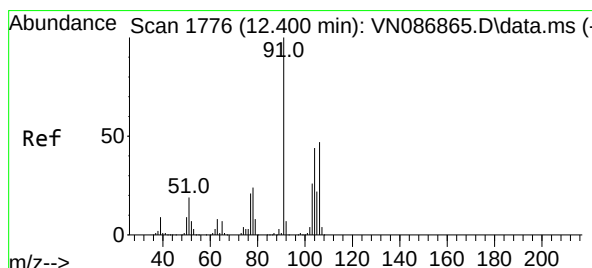
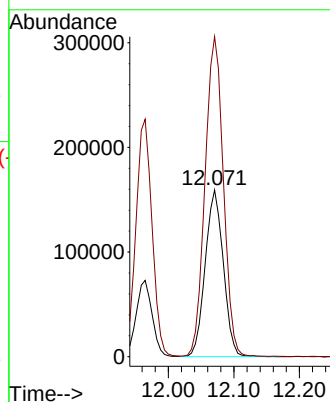
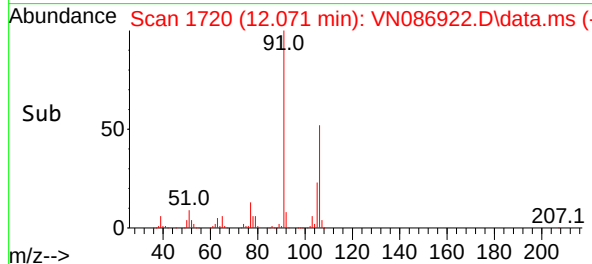
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



Tgt Ion:106 Resp: 305789
Ion Ratio Lower Upper
106 100
91 194.4 159.4 239.0

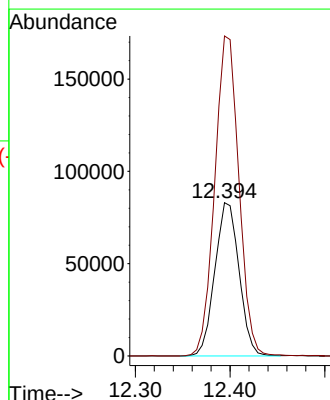
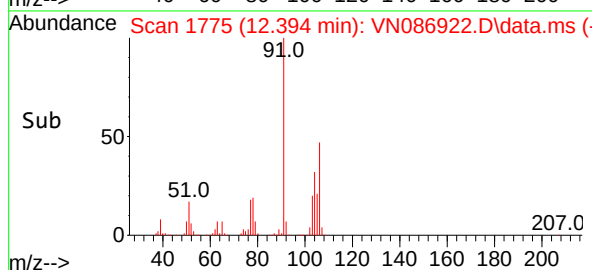
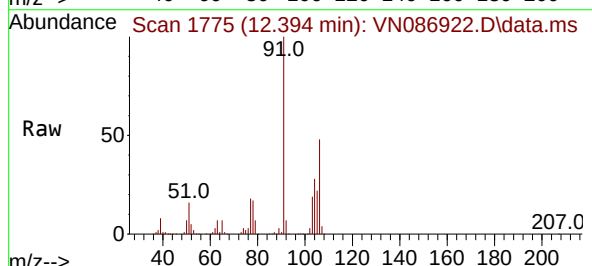
Manual Integrations
APPROVED

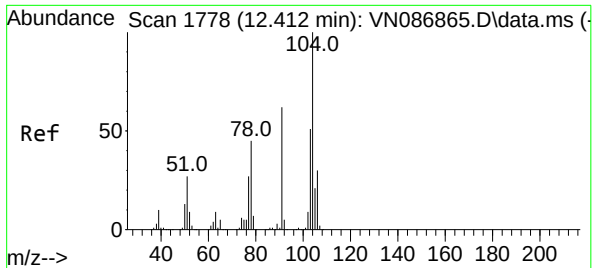
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#69
o-Xylene
Concen: 39.050 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

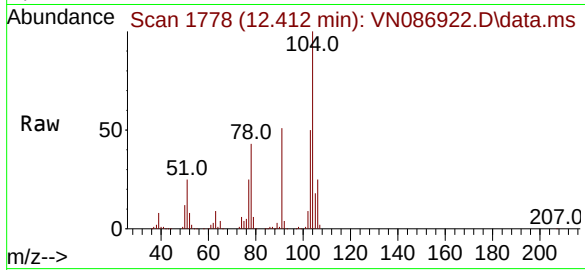
Tgt Ion:106 Resp: 147363
Ion Ratio Lower Upper
106 100
91 208.6 106.1 318.1





#70
Styrene
Concen: 39.358 ug/l
RT: 12.412 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

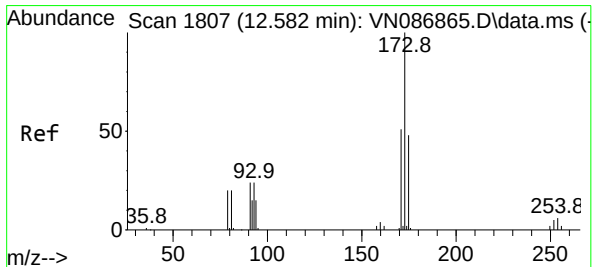
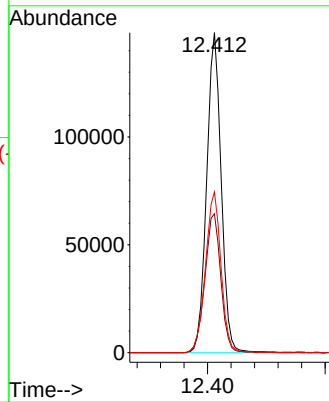
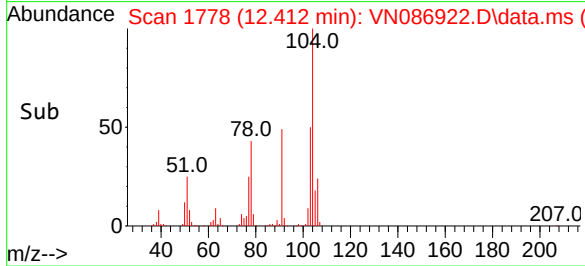
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



Tgt Ion:104 Resp: 25415
Ion Ratio Lower Upper
104 100
78 47.4 38.5 57.7
103 53.9 43.1 64.7

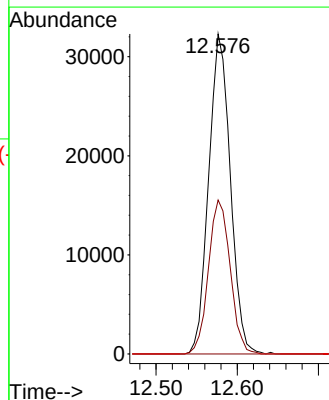
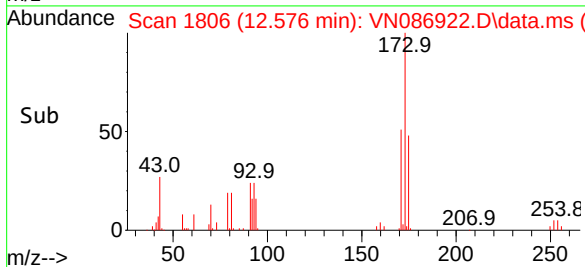
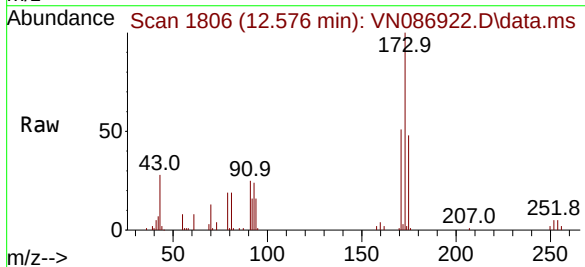
Manual Integrations
APPROVED

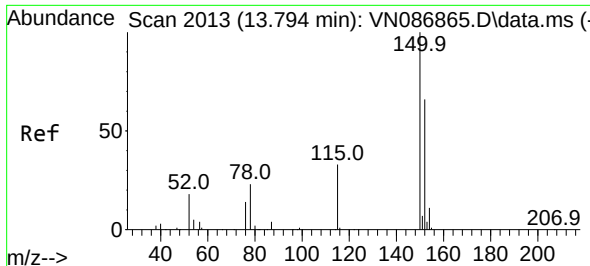
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#71
Bromoform
Concen: 42.046 ug/l
RT: 12.576 min Scan# 1806
Delta R.T. -0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Tgt Ion:173 Resp: 59843
Ion Ratio Lower Upper
173 100
175 48.3 24.1 72.4
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2013

Delta R.T. -0.006 min

Lab File: VN086922.D

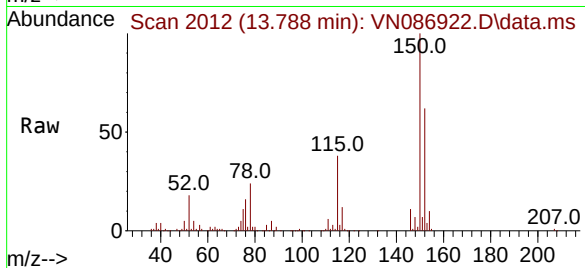
Acq: 10 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MS



Tgt Ion:152 Resp: 132628

Ion Ratio Lower Upper

152 100

115 59.6 30.1 90.5

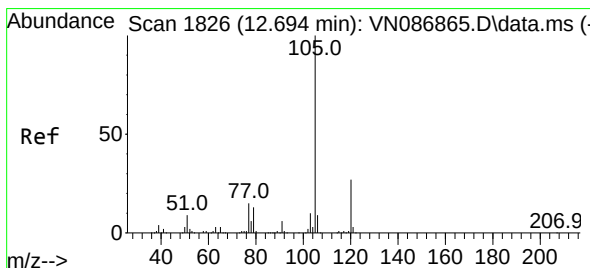
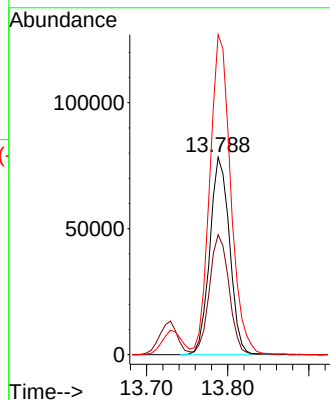
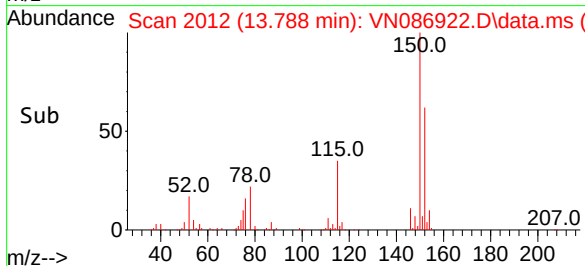
150 171.8 0.0 345.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#73

Isopropylbenzene

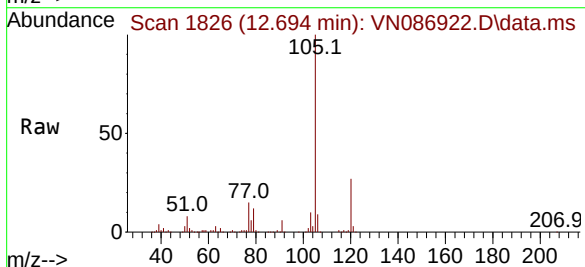
Concen: 36.846 ug/l

RT: 12.694 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

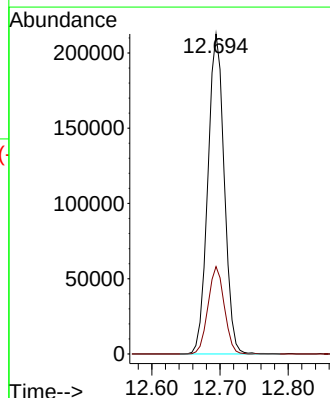
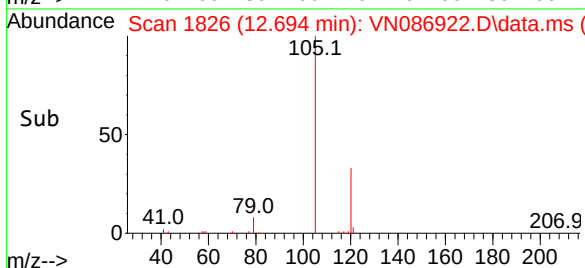


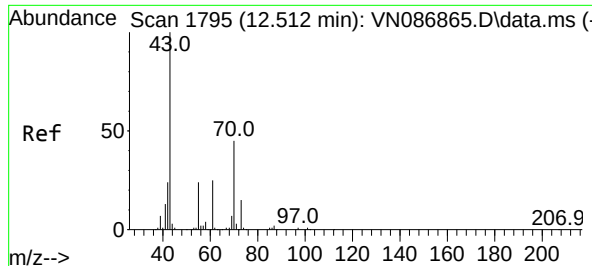
Tgt Ion:105 Resp: 356009

Ion Ratio Lower Upper

105 100

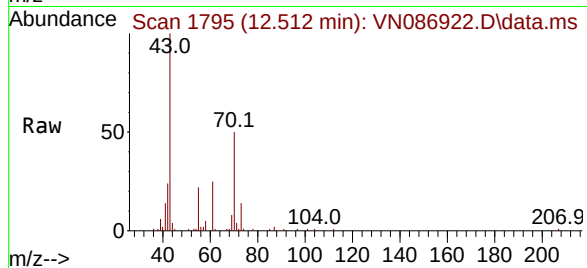
120 26.9 13.5 40.4





#74
N-amy1 acetate
Concen: 42.322 ug/l m
RT: 12.512 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

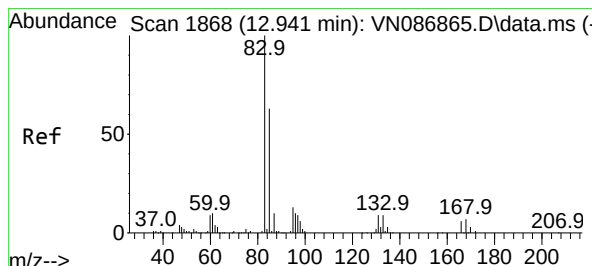
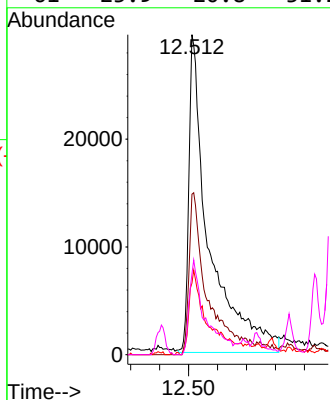
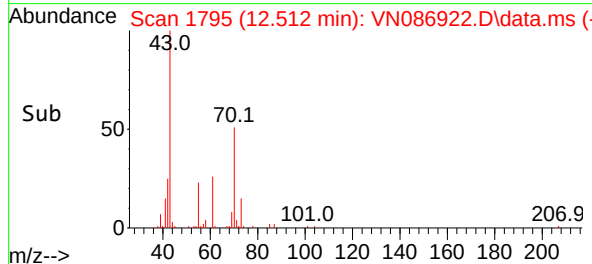
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



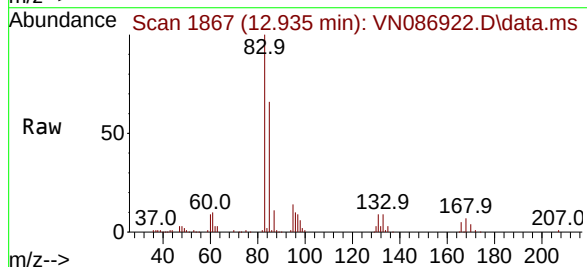
Tgt Ion: 43 Resp: 14289
Ion Ratio Lower Upper
43 100
70 43.8 37.6 56.4
55 23.5 19.0 28.6
61 23.9 20.8 31.2

Manual Integrations
APPROVED

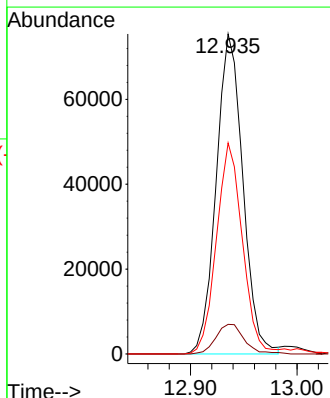
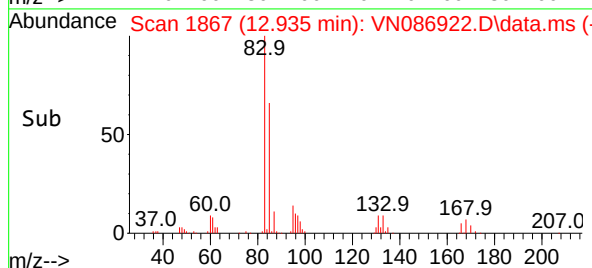
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

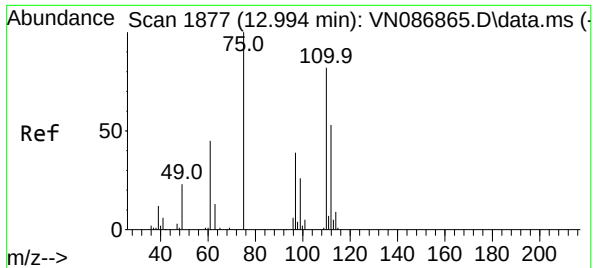


#75
1,1,2,2-Tetrachloroethane
Concen: 40.025 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51



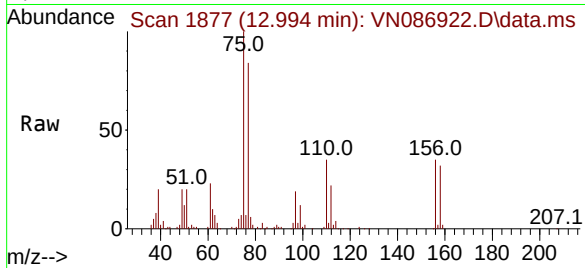
Tgt Ion: 83 Resp: 131015
Ion Ratio Lower Upper
83 100
131 9.9 4.9 14.7
85 64.2 32.0 96.0





#76
1,2,3-Trichloropropane
Concen: 35.250 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

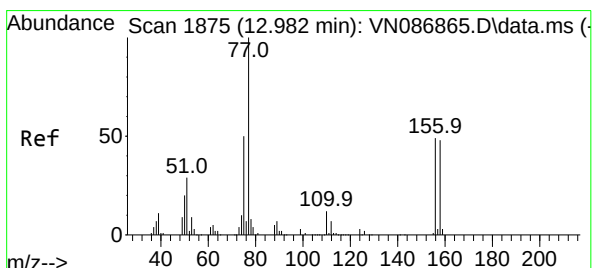
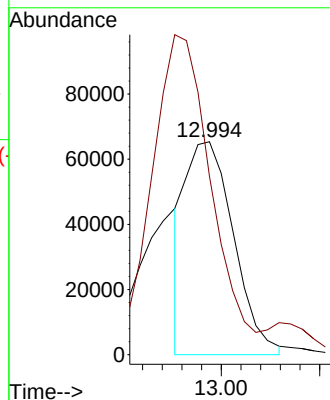
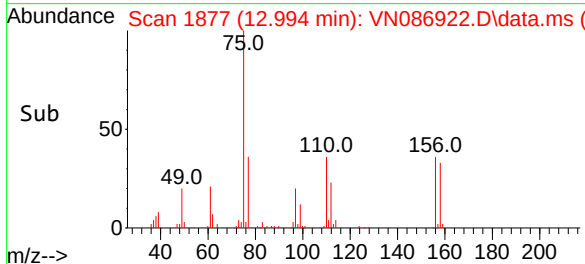
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



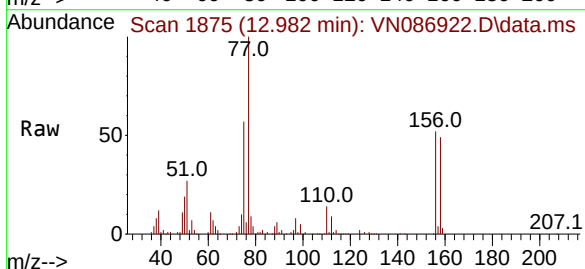
Tgt Ion: 75 Resp: 111129
Ion Ratio Lower Upper
75 100
77 185.2 79.3 237.9

Manual Integrations
APPROVED

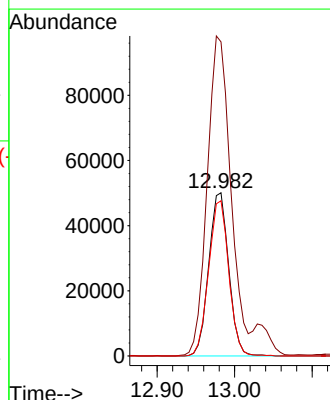
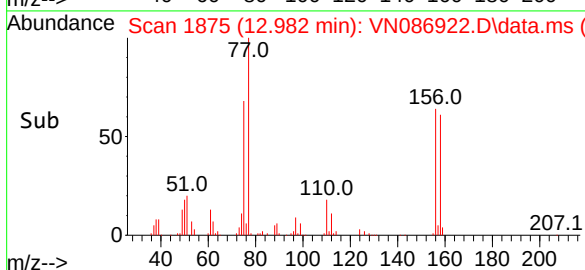
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

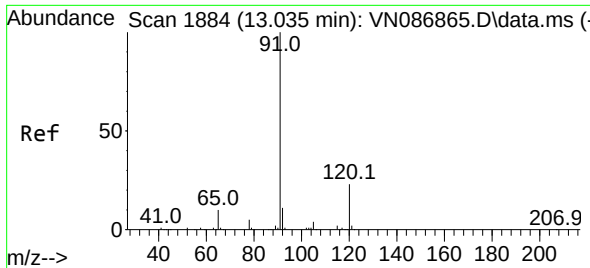


#77
Bromobenzene
Concen: 40.405 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51



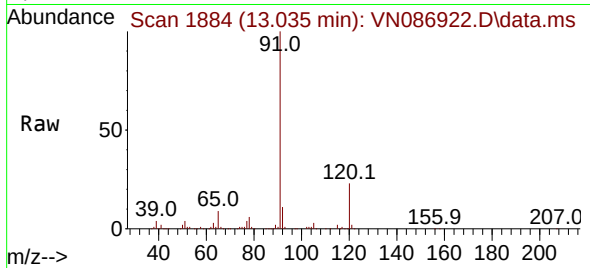
Tgt Ion:156 Resp: 89530
Ion Ratio Lower Upper
156 100
77 229.9 117.7 353.1
158 96.2 48.1 144.4





#78
n-propylbenzene
Concen: 35.869 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

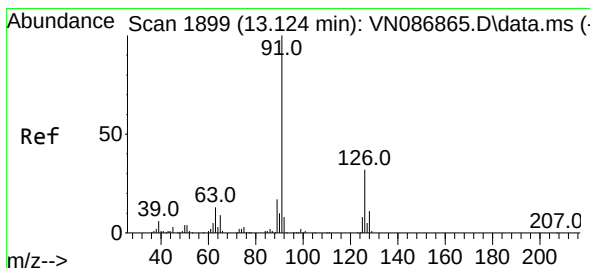
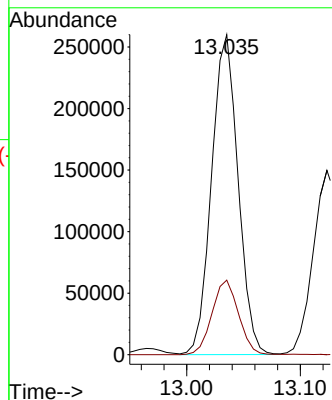
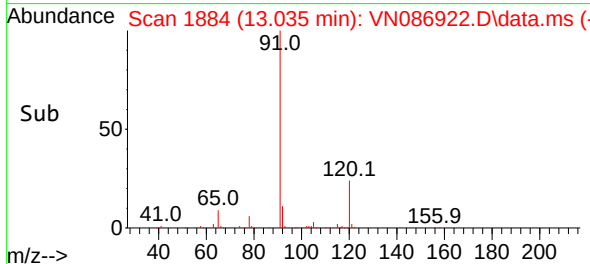
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



Tgt Ion: 91 Resp: 421170
Ion Ratio Lower Upper
91 100
120 23.3 11.4 34.2

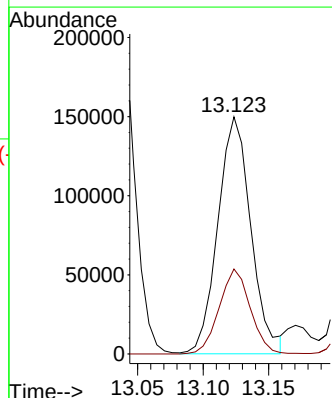
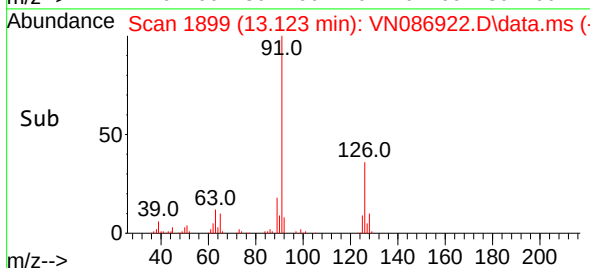
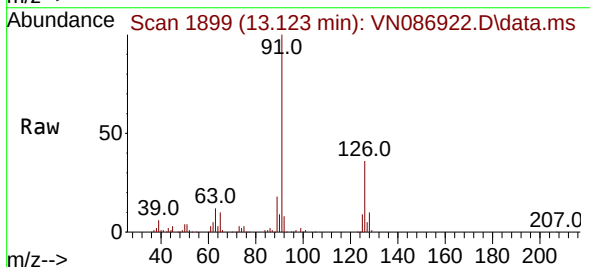
Manual Integrations
APPROVED

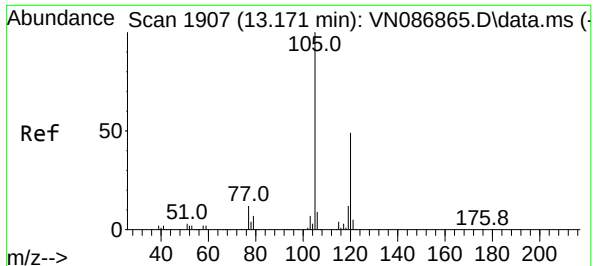
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#79
2-Chlorotoluene
Concen: 37.274 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Tgt Ion: 91 Resp: 262472
Ion Ratio Lower Upper
91 100
126 33.7 16.2 48.5





#80

1,3,5-Trimethylbenzene

Concen: 36.083 ug/l

RT: 13.170 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MS

Tgt Ion:105 Resp: 287840

Ion Ratio Lower Upper

105 100

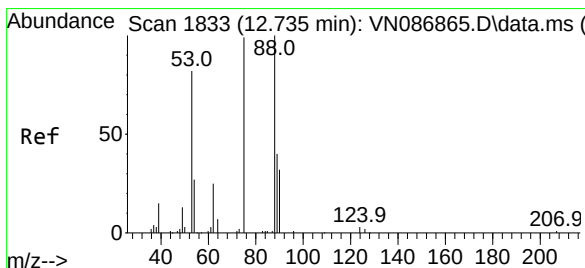
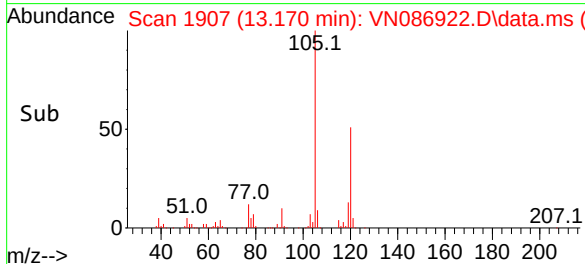
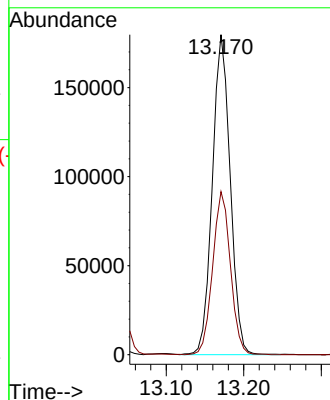
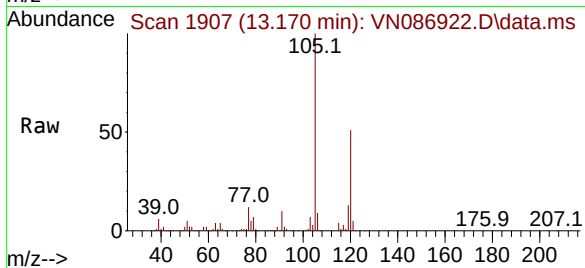
120 50.7 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#81

trans-1,4-Dichloro-2-butene

Concen: 41.077 ug/l

RT: 12.735 min Scan# 1833

Delta R.T. -0.000 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

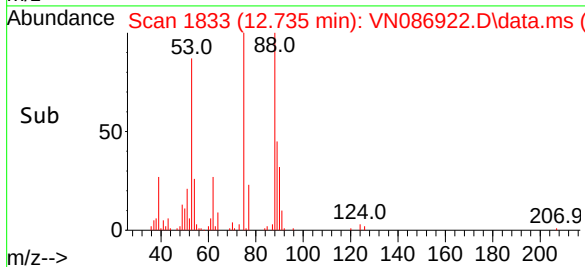
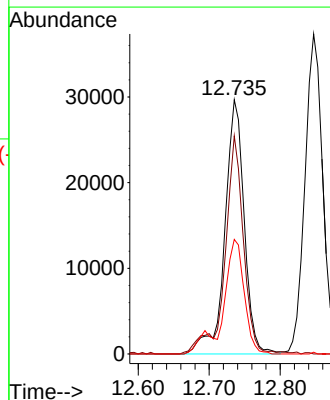
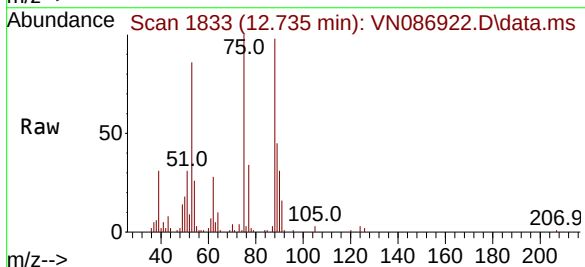
Tgt Ion: 75 Resp: 56257

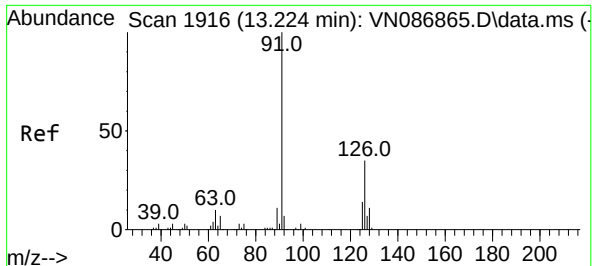
Ion Ratio Lower Upper

75 100

53 82.3 66.6 99.8

89 41.1 36.7 55.1





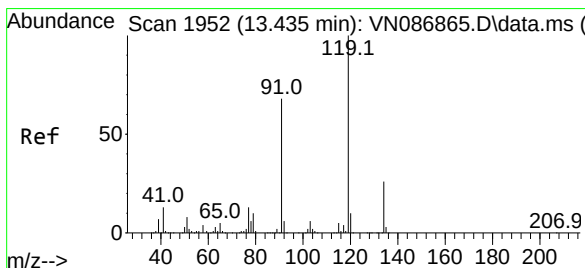
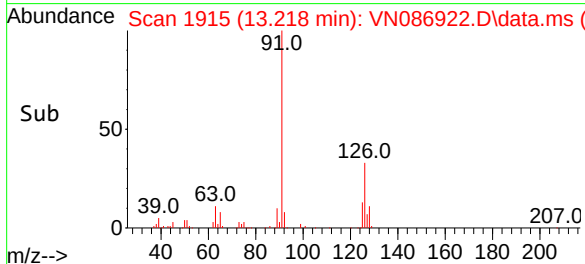
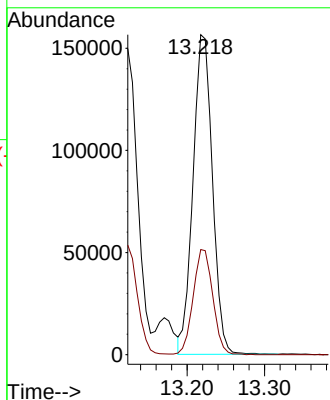
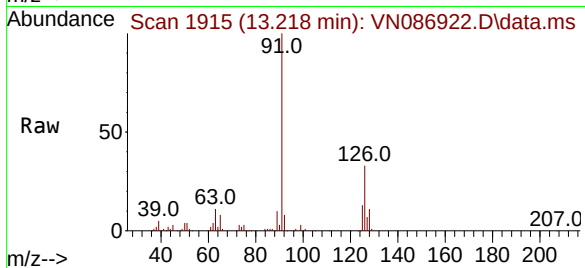
#82
4-Chlorotoluene
Concen: 38.181 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS

Tgt Ion: 91 Resp: 272044
Ion Ratio Lower Upper
91 100
126 33.3 16.7 50.1

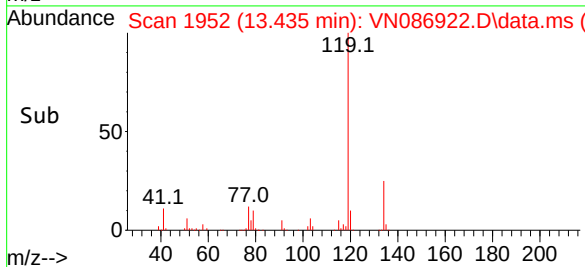
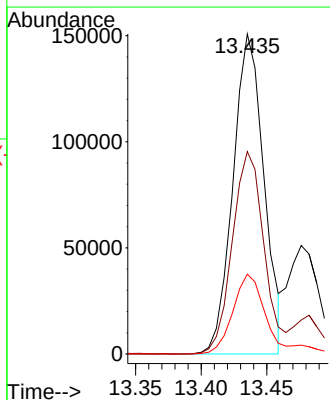
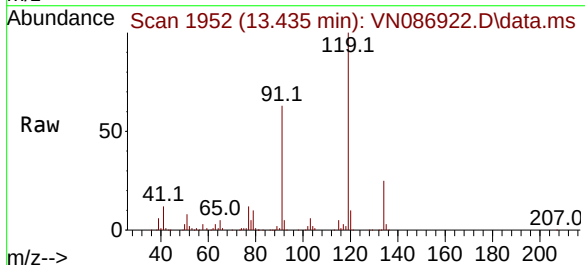
Manual Integrations
APPROVED

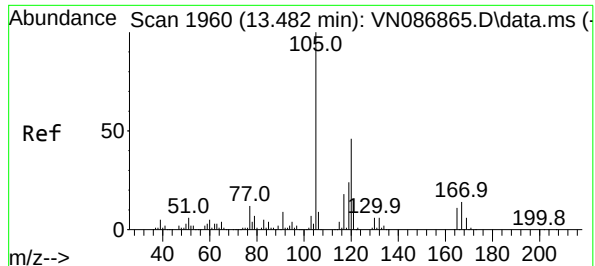
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#83
tert-Butylbenzene
Concen: 33.915 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Tgt Ion:119 Resp: 247652
Ion Ratio Lower Upper
119 100
91 64.8 32.1 96.5
134 27.4 13.4 40.1





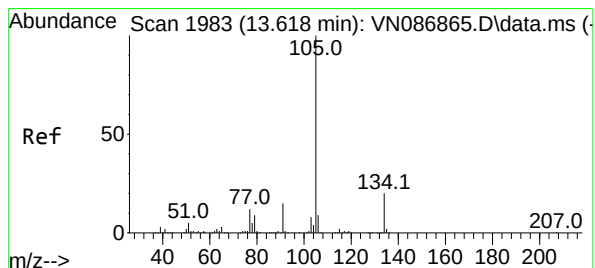
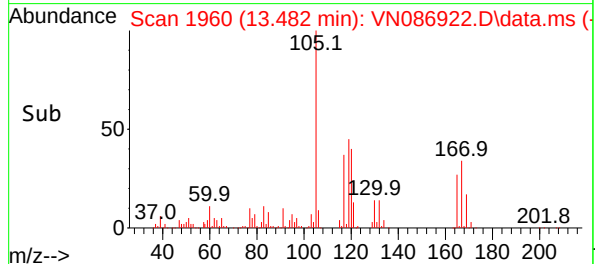
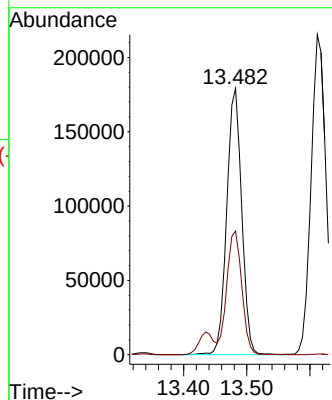
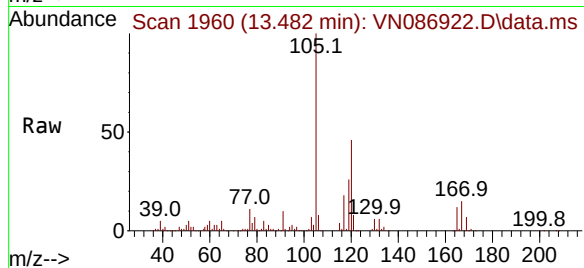
#84
1,2,4-Trimethylbenzene
Concen: 36.759 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS

Tgt Ion:105 Resp: 29404
Ion Ratio Lower Upper
105 100
120 46.7 23.2 69.6

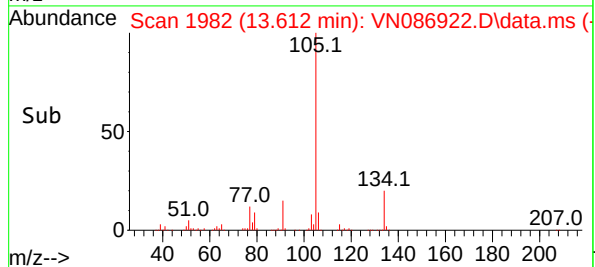
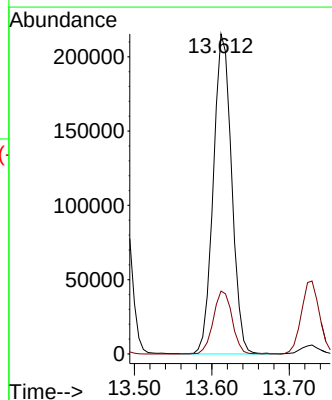
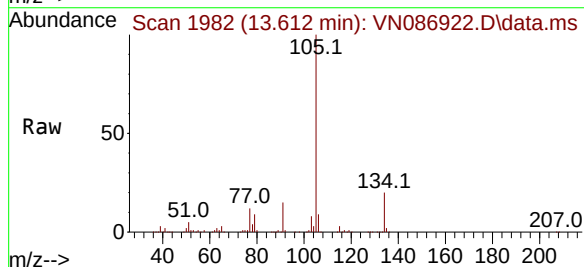
Manual Integrations
APPROVED

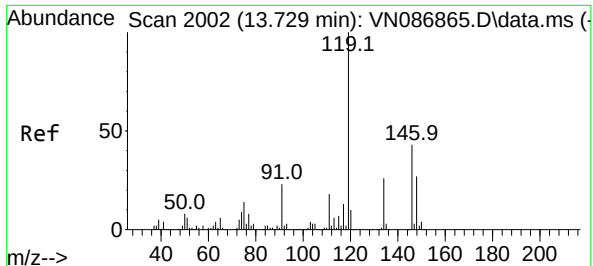
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#85
sec-Butylbenzene
Concen: 33.315 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Tgt Ion:105 Resp: 353284
Ion Ratio Lower Upper
105 100
134 20.2 10.0 30.0





#86

p-Isopropyltoluene

Concen: 33.934 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.006 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MS

Tgt Ion:119 Resp: 29746

Ion Ratio Lower Upper

119 100

134 26.8 13.5 40.4

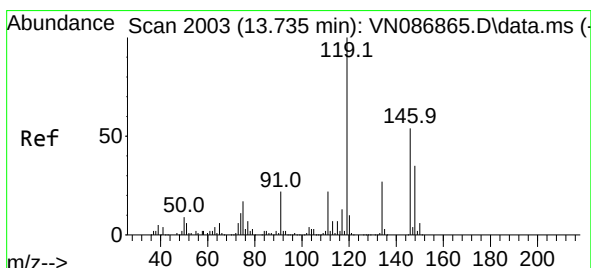
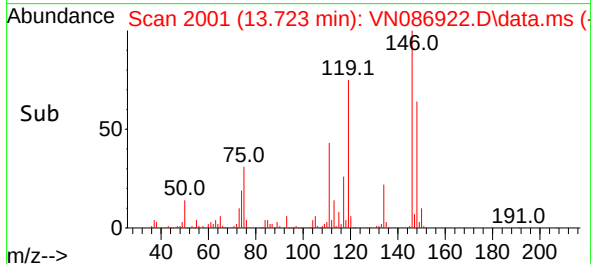
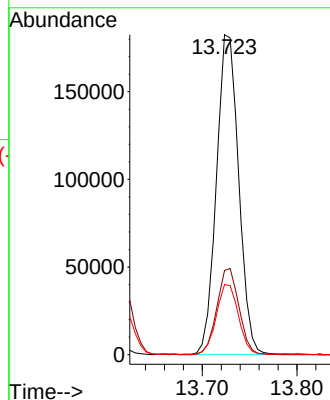
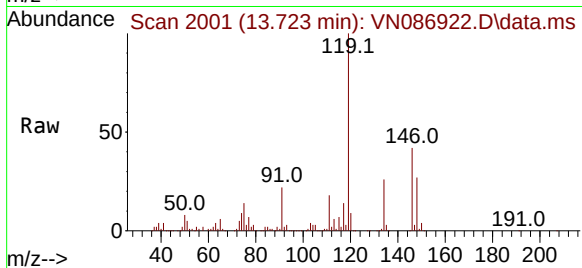
91 22.1 11.5 34.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#87

1,3-Dichlorobenzene

Concen: 37.892 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.006 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

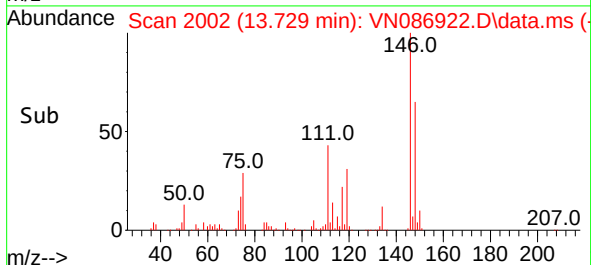
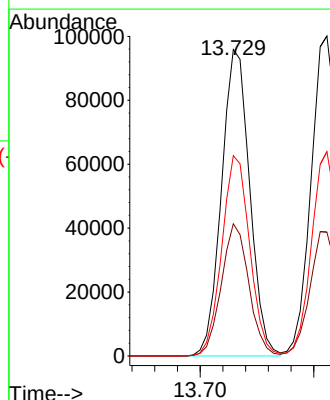
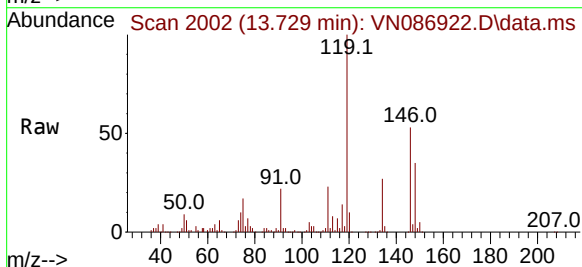
Tgt Ion:146 Resp: 165194

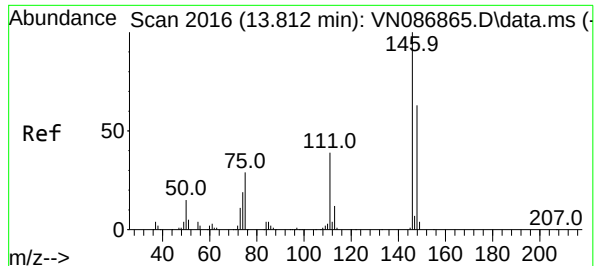
Ion Ratio Lower Upper

146 100

111 42.1 20.9 62.8

148 64.7 32.0 96.2





#88

1,4-Dichlorobenzene

Concen: 38.850 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

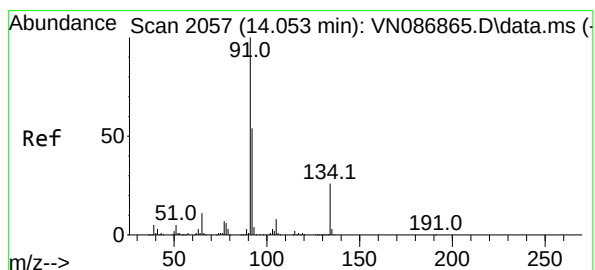
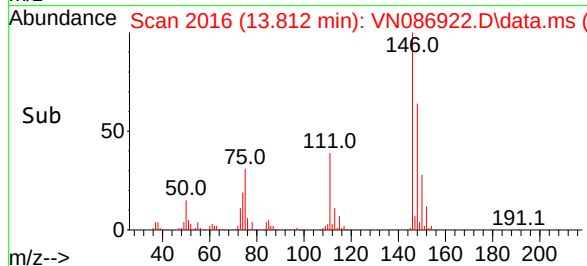
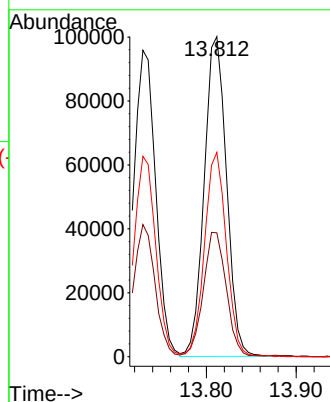
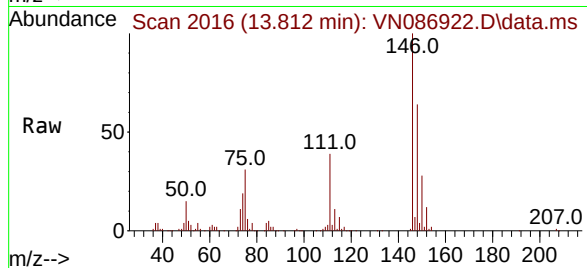
MW-11A-13.5-060525MS

Tgt Ion:	146	Resp:	17267
Ion Ratio	Lower	Upper	
146	100		
111	39.5	19.9	59.7
148	62.6	31.8	95.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#89

n-Butylbenzene

Concen: 31.824 ug/l

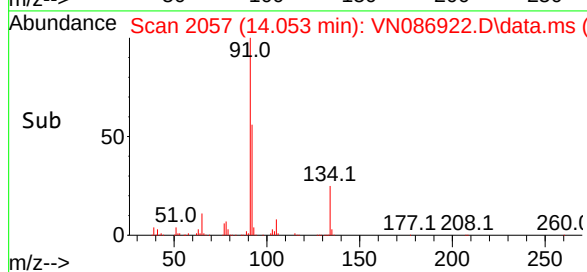
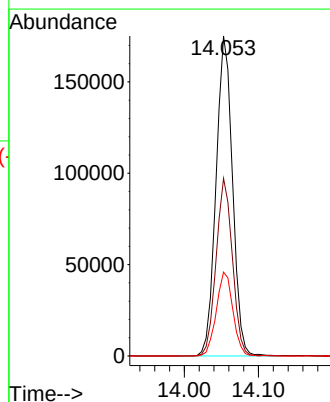
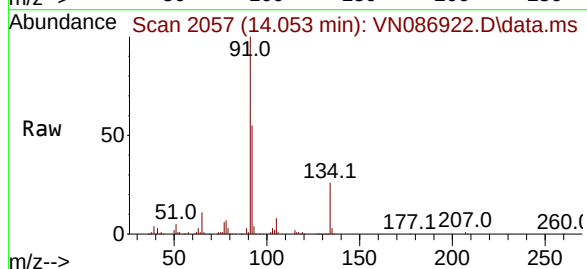
RT: 14.053 min Scan# 2057

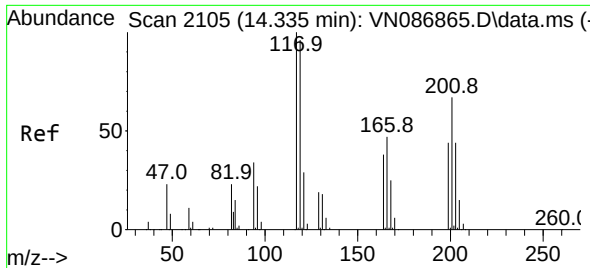
Delta R.T. -0.000 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

Tgt Ion:	91	Resp:	270209
Ion Ratio	Lower	Upper	
91	100		
92	54.9	27.5	82.4
134	26.4	13.0	39.0





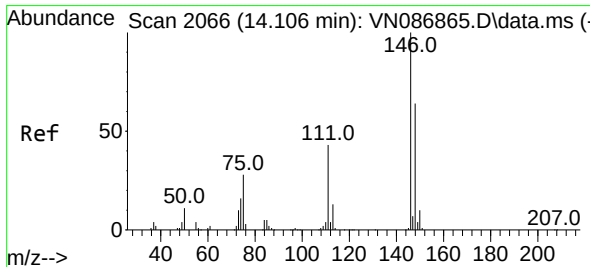
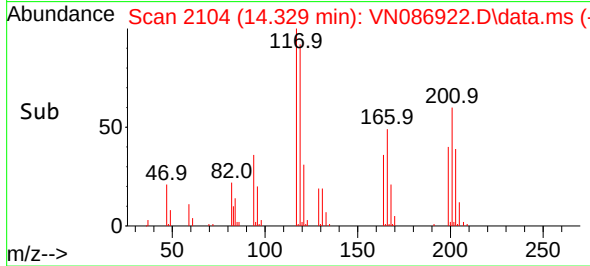
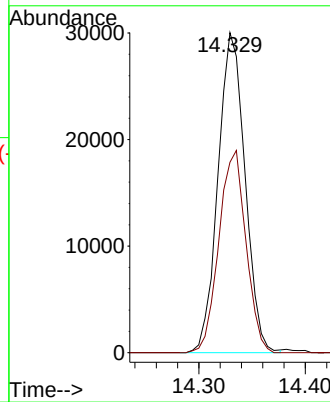
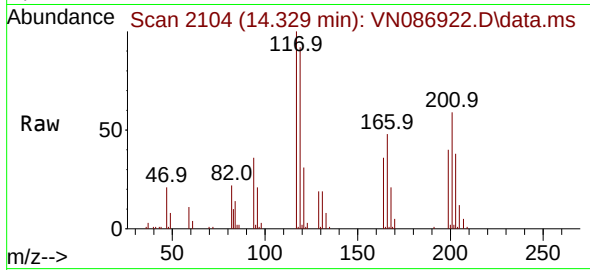
#90
Hexachloroethane
Concen: 35.562 ug/l
RT: 14.329 min Scan# 2105
Delta R.T. -0.006 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS

Tgt Ion:117 Resp: 52840
Ion Ratio Lower Upper
117 100
201 63.3 33.2 99.6

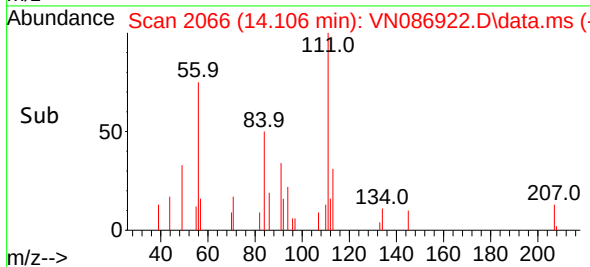
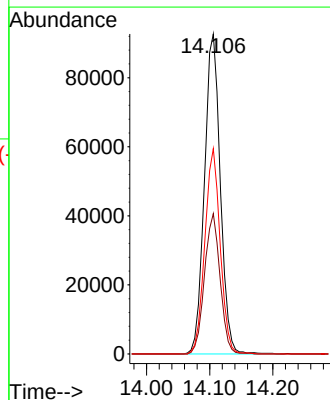
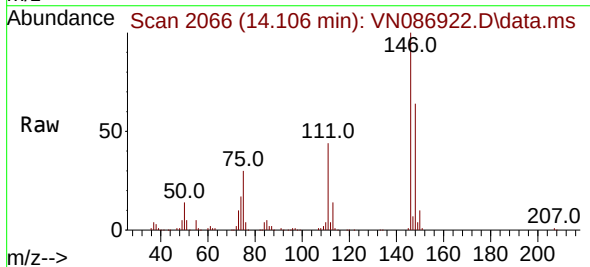
Manual Integrations
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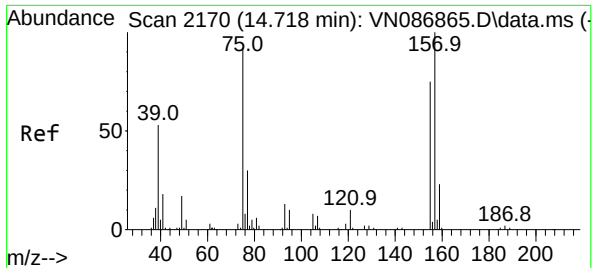
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#91
1,2-Dichlorobenzene
Concen: 38.647 ug/l
RT: 14.106 min Scan# 2066
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

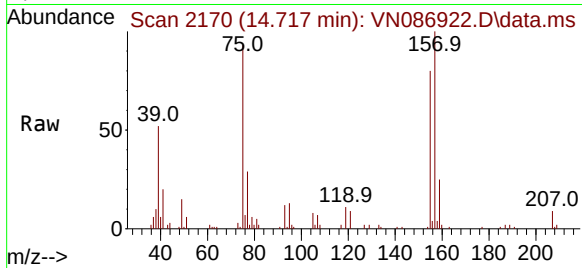
Tgt Ion:146 Resp: 161871
Ion Ratio Lower Upper
146 100
111 43.0 21.6 64.6
148 62.1 31.7 95.1





#92
1,2-Dibromo-3-Chloropropane
Concen: 36.108 ug/l
RT: 14.717 min Scan# 2170
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

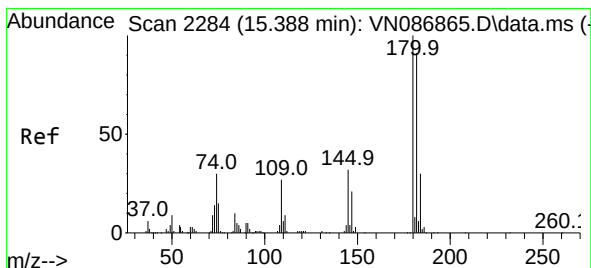
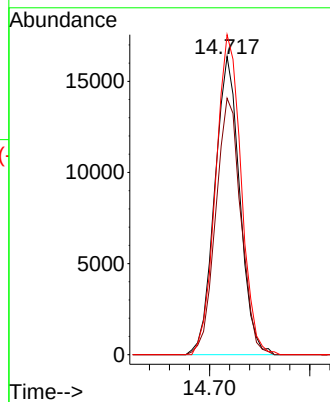
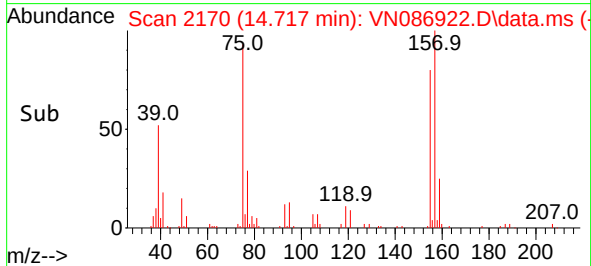
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



Tgt Ion: 75 Resp: 28260
Ion Ratio Lower Upper
75 100
155 86.6 41.1 123.4
157 108.9 52.7 158.1

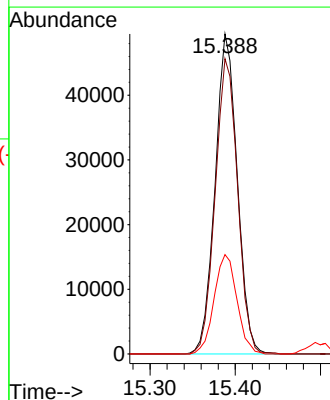
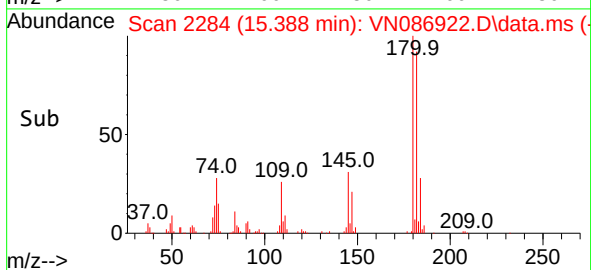
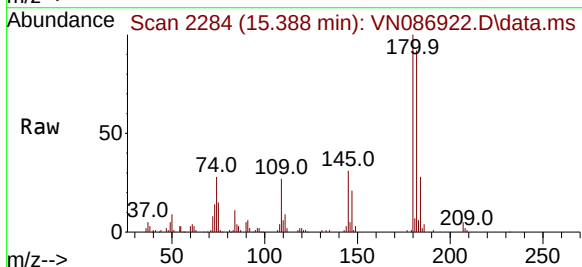
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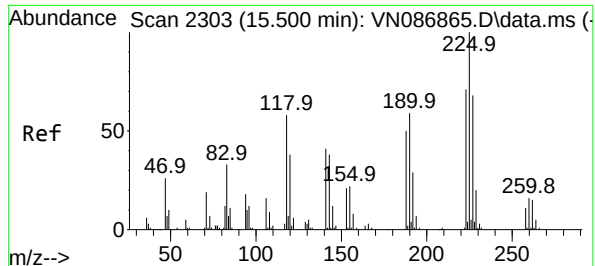
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#93
1,2,4-Trichlorobenzene
Concen: 33.503 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

Tgt Ion:180 Resp: 89607
Ion Ratio Lower Upper
180 100
182 93.1 46.9 140.7
145 32.0 16.0 47.9





#94

Hexachlorobutadiene

Concen: 26.343 ug/l

RT: 15.494 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MS

Tgt Ion:225 Resp: 26250

Ion Ratio Lower Upper

225 100

223 65.2 33.5 100.4

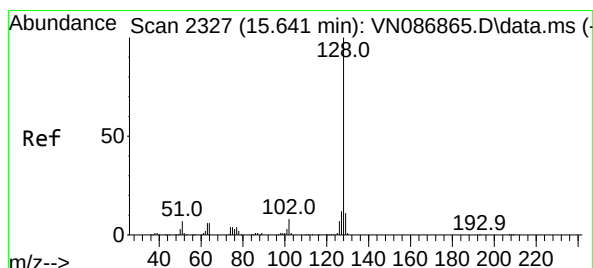
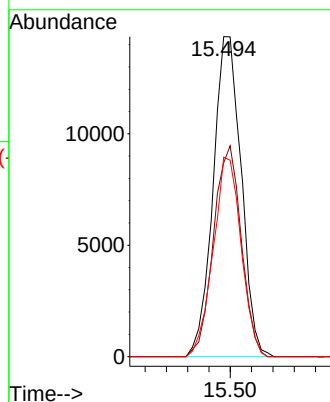
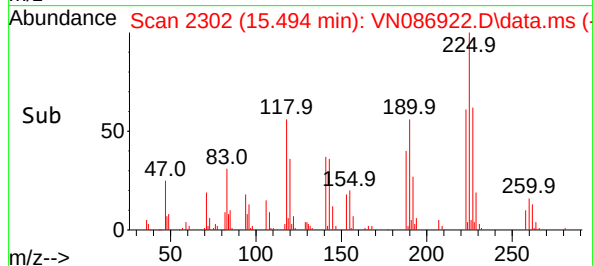
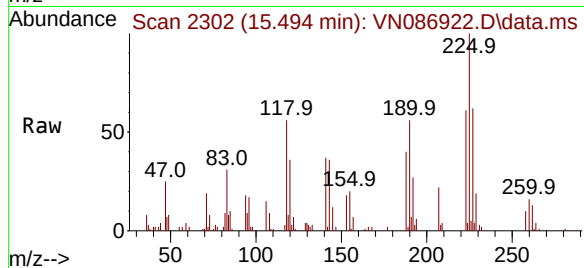
227 62.1 31.1 93.5

Manual Integrations

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Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#95

Naphthalene

Concen: 36.684 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.006 min

Lab File: VN086922.D

Acq: 10 Jun 2025 12:51

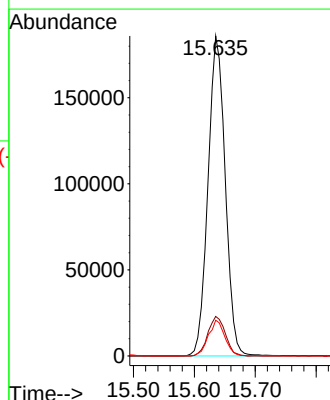
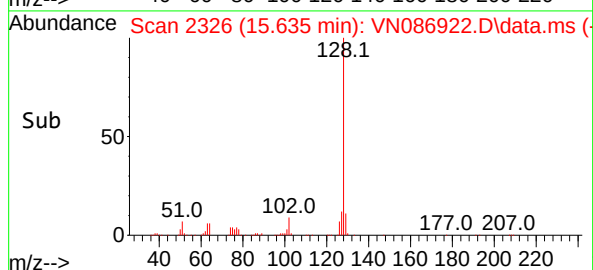
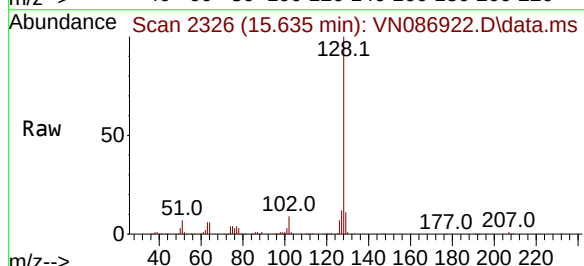
Tgt Ion:128 Resp: 365200

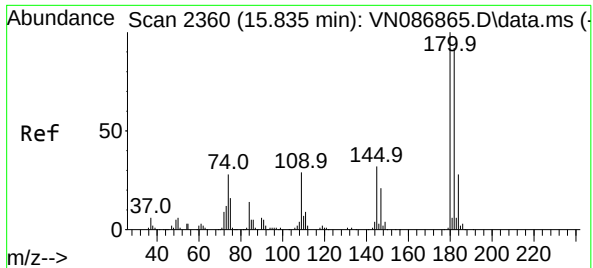
Ion Ratio Lower Upper

128 100

127 12.5 10.2 15.2

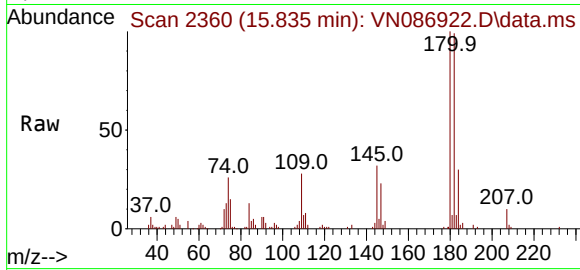
129 10.6 8.8 13.2





#96
1,2,3-Trichlorobenzene
Concen: 32.053 ug/l
RT: 15.835 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086922.D
Acq: 10 Jun 2025 12:51

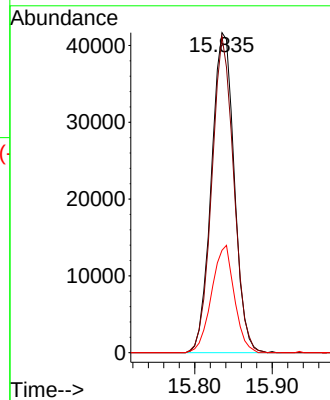
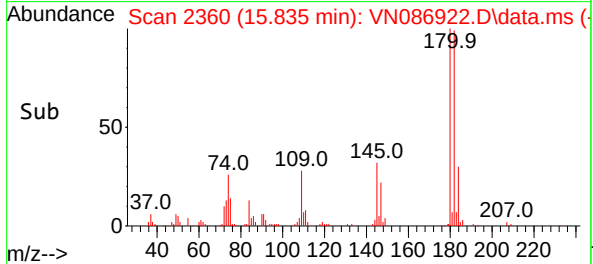
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS



Tgt Ion:180 Resp: 85170
Ion Ratio Lower Upper
180 100
182 94.7 47.0 141.0
145 33.4 16.6 49.8

Manual Integrations
APPROVED

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



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	MW-11A-13.5-060525MSD	SDG No.:	Q2250
Lab Sample ID:	Q2250-03MSD	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:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086923.D	1		06/10/25 13:12	VN061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	57.2		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	53.1		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	49.5		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	2100	E	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	41.4		0.20	1.00	ug/L
71-43-2	Benzene	43.0		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	43.1		0.22	1.00	ug/L
79-01-6	Trichloroethene	3300	E	0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	44.5		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	66.0		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.7		70 (74) - 130 (125)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	56.6		70 (75) - 130 (124)	113%	SPK: 50
2037-26-5	Toluene-d8	54.8		70 (86) - 130 (113)	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.3		70 (77) - 130 (121)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	173000	8.23			
540-36-3	1,4-Difluorobenzene	310000	9.106			
3114-55-4	Chlorobenzene-d5	267000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	130000	13.788			

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_N\Data\VN061025\
 Data File : VN086923.D
 Acq On : 10 Jun 2025 13:12
 Operator : JC\MD
 Sample : Q2250-03MSD
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-11A-13.5-060525MSD

Quant Time: Jun 11 01:53:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 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	8.230	168	172955	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	309901	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	266637	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	129873	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	121937	52.657	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.320%			
35) Dibromofluoromethane	8.177	113	103950	56.601	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.200%			
50) Toluene-d8	10.565	98	398352	54.791	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 109.580%			
62) 4-Bromofluorobenzene	12.847	95	149297	55.271	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 110.540%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.154	85	73929	42.871	ug/l	99
3) Chloromethane	2.395	50	84867	38.111	ug/l	97
4) Vinyl Chloride	2.554	62	131440	57.220	ug/l	98
5) Bromomethane	3.001	94	58237	45.304	ug/l	96
6) Chloroethane	3.159	64	65054	43.843	ug/l	99
7) Trichlorofluoromethane	3.530	101	127412	42.453	ug/l	99
8) Diethyl Ether	3.989	74	57896	44.275	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.401	101	438614	232.614	ug/l	99
10) Methyl Iodide	4.618	142	90414	36.989	ug/l	97
11) Tert butyl alcohol	5.536	59	118532	188.644	ug/l	99
12) 1,1-Dichloroethene	4.371	96	102158	53.068	ug/l	93
13) Acrolein	4.195	56	33620	169.038	ug/l	100
14) Allyl chloride	5.053	41	127951	40.078	ug/l	96
15) Acrylonitrile	5.736	53	308878	210.315	ug/l	100
16) Acetone	4.442	43	233959	190.517	ug/l	98
17) Carbon Disulfide	4.742	76	217837	40.910	ug/l	100
18) Methyl Acetate	5.048	43	144814	40.466	ug/l	99
19) Methyl tert-butyl Ether	5.812	73	300398	43.098	ug/l	99
20) Methylene Chloride	5.300	84	95461	41.521	ug/l	96
21) trans-1,2-Dichloroethene	5.812	96	108472	50.646	ug/l	95
22) Diisopropyl ether	6.689	45	277373	41.216	ug/l	97
23) Vinyl Acetate	6.618	43	1159679	203.959	ug/l	100
24) 1,1-Dichloroethane	6.589	63	191588	49.470	ug/l	98
25) 2-Butanone	7.494	43	391789	196.276	ug/l #	80
26) 2,2-Dichloropropane	7.506	77	139381	46.267	ug/l #	1
27) cis-1,2-Dichloroethene	7.500	96	5451059	2128.127	ug/l	90
28) Bromochloromethane	7.824	49	74118	38.924	ug/l	97
29) Tetrahydrofuran	7.847	42	263616	202.731	ug/l	96
30) Chloroform	7.977	83	162638	42.052	ug/l	97
31) Cyclohexane	8.265	56	133904	35.653	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	136050	41.359	ug/l	99
36) 1,1-Dichloropropene	8.377	75	117527	42.946	ug/l	99
37) Ethyl Acetate	7.571	43	139485	40.039	ug/l #	79
38) Carbon Tetrachloride	8.371	117	113739	42.334	ug/l	97
39) Methylcyclohexane	9.606	83	133181	35.522	ug/l	97
40) Benzene	8.612	78	385021	43.024	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
 Data File : VN086923.D
 Acq On : 10 Jun 2025 13:12
 Operator : JC\MD
 Sample : Q2250-03MSD
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-11A-13.5-060525MSD

Manual Integrations APPROVED

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

Quant Time: Jun 11 01:53:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.789	41	82542	42.189	ug/l	97
42) 1,2-Dichloroethane	8.677	62	116885	43.063	ug/l	100
43) Isopropyl Acetate	8.694	43	222284	39.754	ug/l	96
44) Trichloroethene	9.359	130	6931651	3266.653	ug/l	99
45) 1,2-Dichloropropane	9.624	63	92441	42.460	ug/l	99
46) Dibromomethane	9.712	93	64838	44.837	ug/l	99
47) Bromodichloromethane	9.888	83	126533	42.528	ug/l	100
48) Methyl methacrylate	9.682	41	101839	39.572	ug/l	95
49) 1,4-Dioxane	9.700	88	40909	873.782	ug/l #	99
51) 4-Methyl-2-Pentanone	10.447	43	702657	208.746	ug/l	99
52) Toluene	10.630	92	233021	42.608	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	146110	43.917	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	154243	43.329	ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	93633	44.495	ug/l	99
56) Ethyl methacrylate	10.877	69	153861	45.905	ug/l	95
57) 1,3-Dichloropropane	11.165	76	155775	42.673	ug/l	97
59) 2-Hexanone	11.200	43	455196	209.941	ug/l	95
60) Dibromochloromethane	11.359	129	99583	45.420	ug/l	99
61) 1,2-Dibromoethane	11.471	107	92981	43.108	ug/l	99
64) Tetrachloroethene	11.106	164	111429	66.034	ug/l	95
65) Chlorobenzene	11.894	112	259599	44.144	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	84686	44.799	ug/l	99
67) Ethyl Benzene	11.965	91	427727	42.226	ug/l	99
68) m/p-Xylenes	12.071	106	333950	86.123	ug/l	98
69) o-Xylene	12.400	106	162838	43.848	ug/l	97
70) Styrene	12.412	104	282053	44.384	ug/l	99
71) Bromoform	12.576	173	65807	46.983	ug/l #	99
73) Isopropylbenzene	12.694	105	394852	41.733	ug/l	100
74) N-amyl acetate	12.518	43	143729	43.473	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.935	83	144127	44.965	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	118377m	38.345	ug/l	
77) Bromobenzene	12.976	156	99031	45.640	ug/l	98
78) n-propylbenzene	13.035	91	464253	40.377	ug/l	98
79) 2-Chlorotoluene	13.123	91	289730	42.017	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	321135	41.111	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	62181	46.366	ug/l	98
82) 4-Chlorotoluene	13.218	91	298311	42.756	ug/l	99
83) tert-Butylbenzene	13.435	119	273596	38.263	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	326290	41.655	ug/l	100
85) sec-Butylbenzene	13.612	105	394374	37.979	ug/l	99
86) p-Isopropyltoluene	13.729	119	332552	38.742	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	184900	43.312	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	191420	43.980	ug/l	99
89) n-Butylbenzene	14.053	91	302661	36.403	ug/l	99
90) Hexachloroethane	14.335	117	57752	39.692	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	177603	43.302	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	31210	40.715	ug/l	94
93) 1,2,4-Trichlorobenzene	15.388	180	98501	37.609	ug/l	98
94) Hexachlorobutadiene	15.494	225	28911	29.629	ug/l	98
95) Naphthalene	15.635	128	399267	40.957	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	93291	35.852	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086923.D
Acq On : 10 Jun 2025 13:12
Operator : JC\MD
Sample : Q2250-03MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 11 01:53:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD

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)

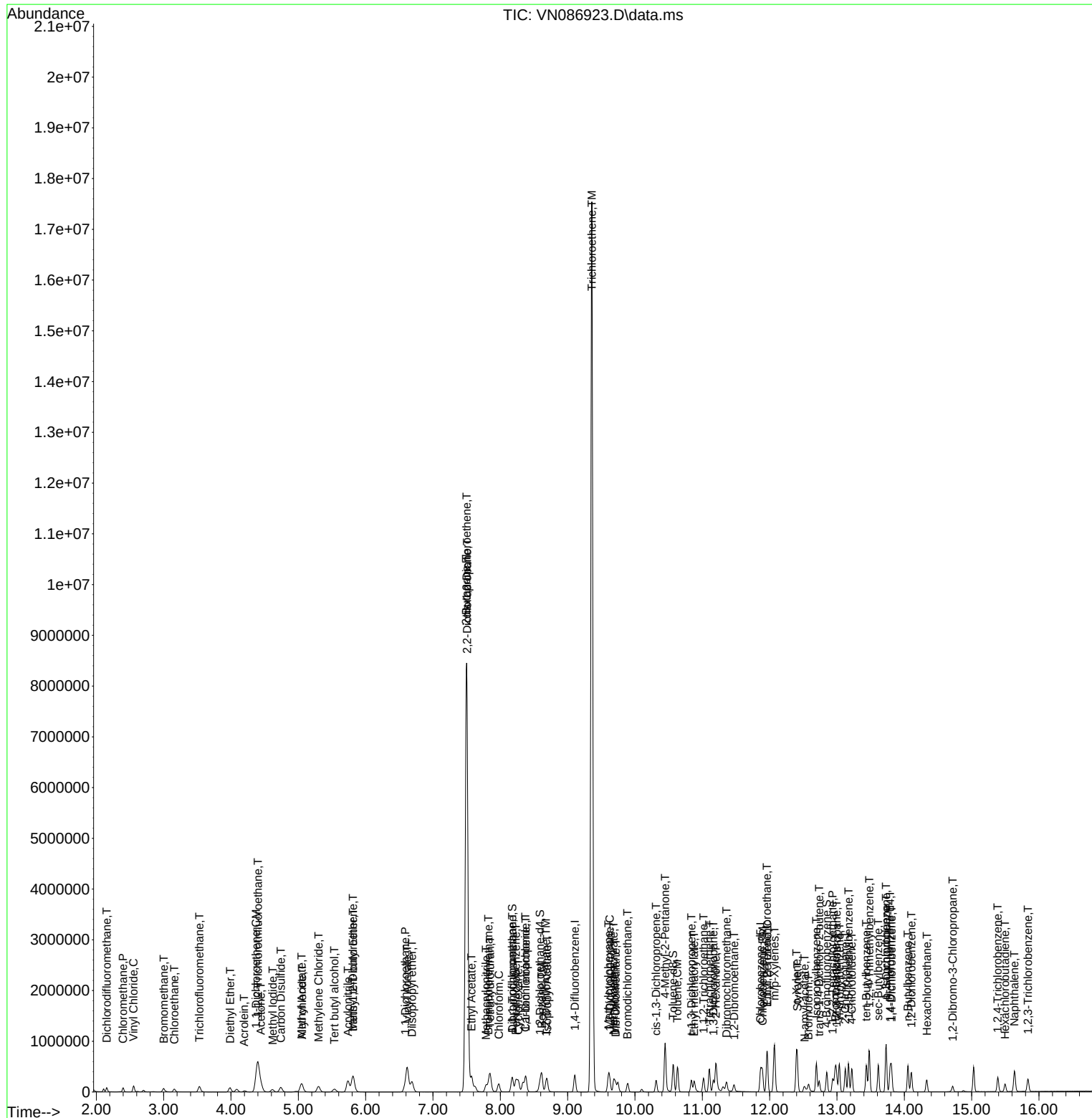
(#)=qualifier out of range (m)=manual integration (+)=signals summed						

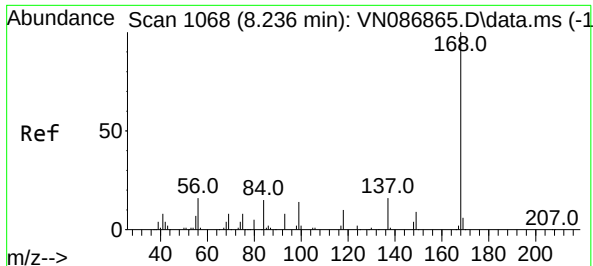
Instrument :
MSVOA_N

ClientSampleId :
MW-11A-13.5-060525MSD

Manual Integrations

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





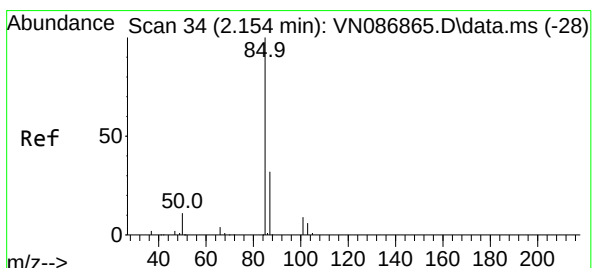
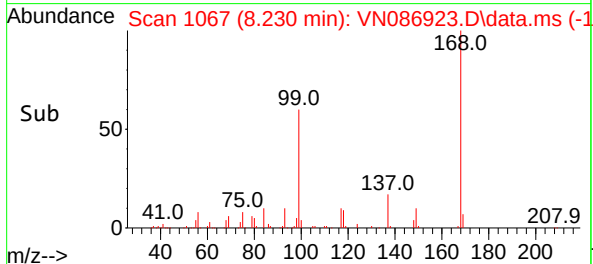
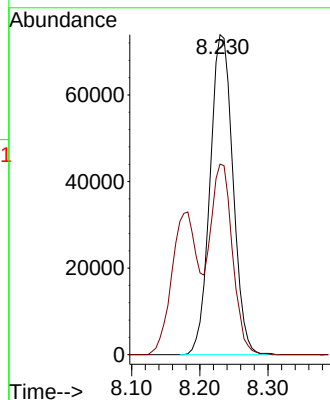
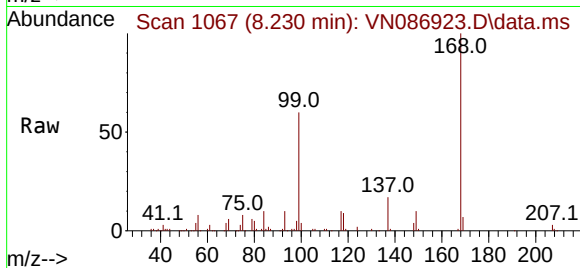
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD

Tgt Ion:168 Resp: 17295
Ion Ratio Lower Upper
168 100
99 59.6 49.1 73.7

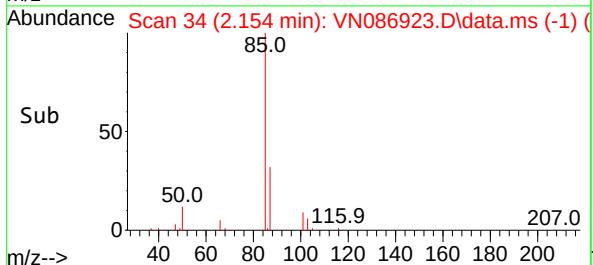
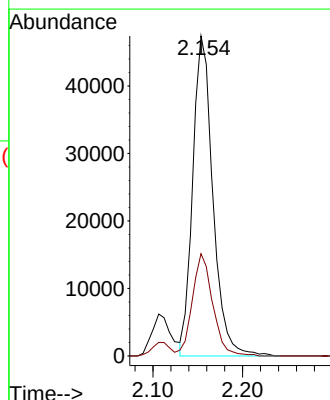
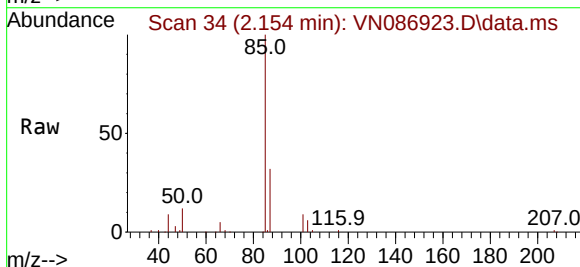
Manual Integrations
APPROVED

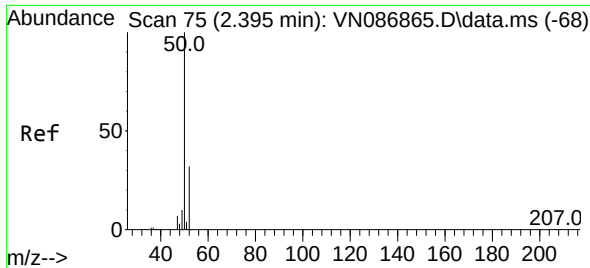
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#2
Dichlorodifluoromethane
Concen: 42.871 ug/l
RT: 2.154 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

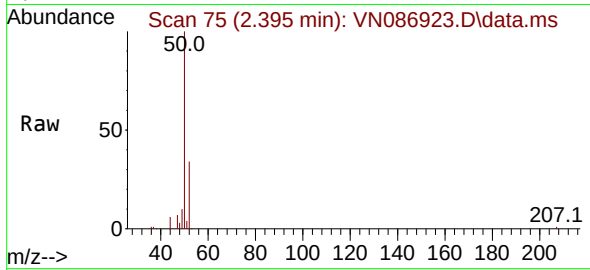
Tgt Ion: 85 Resp: 73929
Ion Ratio Lower Upper
85 100
87 31.9 16.2 48.6





#3
Chloromethane
Concen: 38.111 ug/l
RT: 2.395 min Scan# 75
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

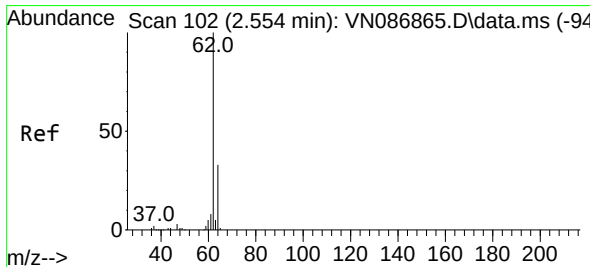
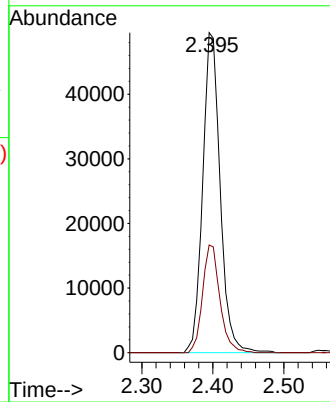
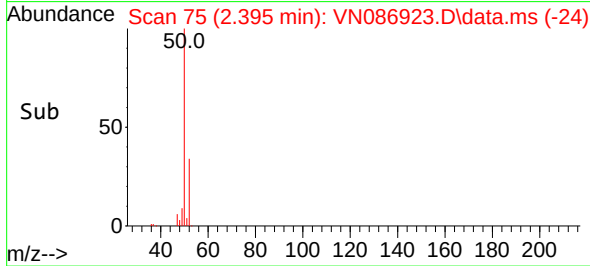
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



Tgt Ion: 50 Resp: 8486
Ion Ratio Lower Upper
50 100
52 33.6 25.7 38.5

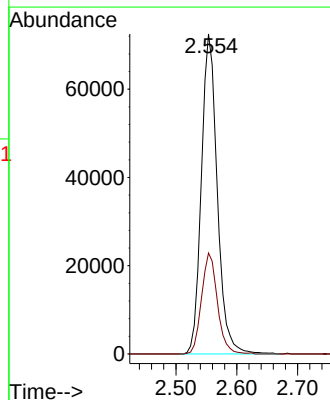
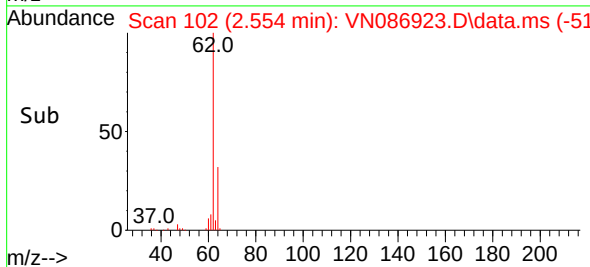
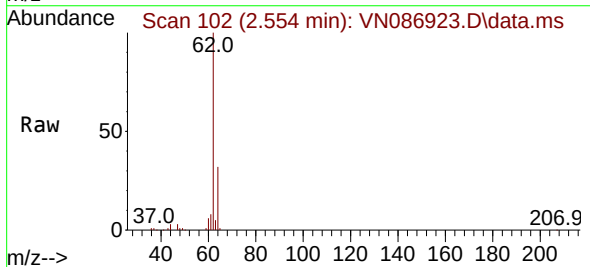
Manual Integrations
APPROVED

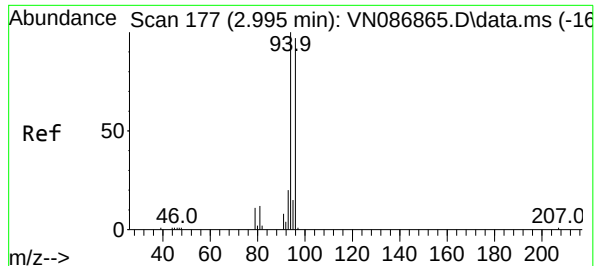
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#4
Vinyl Chloride
Concen: 57.220 ug/l
RT: 2.554 min Scan# 102
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

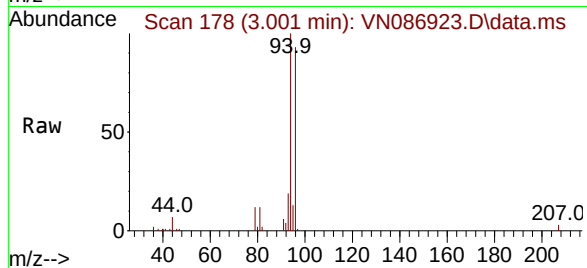
Tgt Ion: 62 Resp: 131440
Ion Ratio Lower Upper
62 100
64 31.5 26.0 39.0





#5
Bromomethane
Concen: 45.304 ug/l
RT: 3.001 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

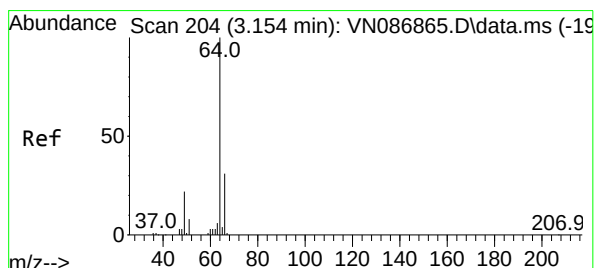
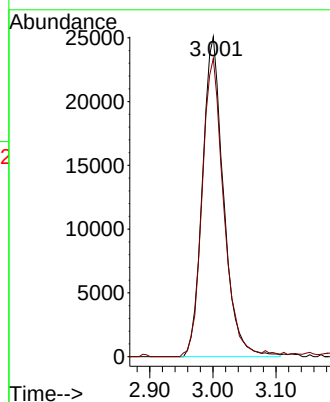
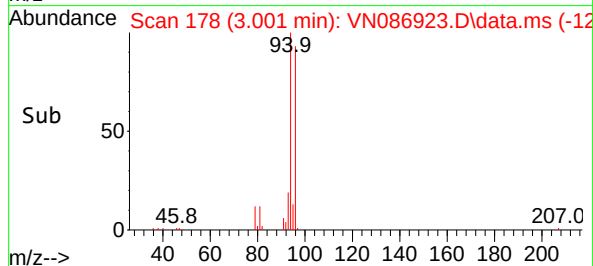
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



Tgt Ion: 94 Resp: 5823
Ion Ratio Lower Upper
94 100
96 93.3 77.9 116.9

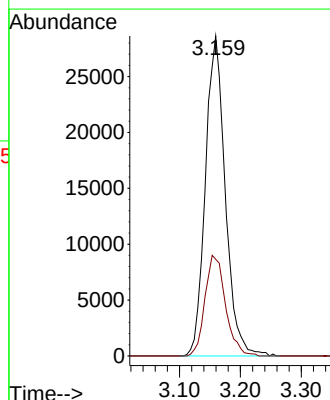
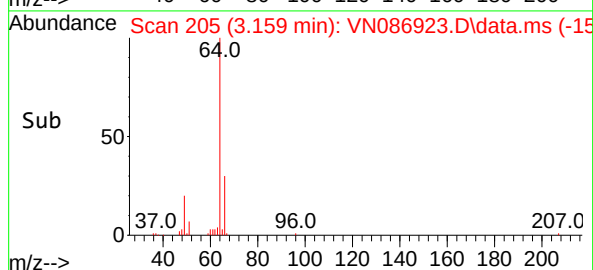
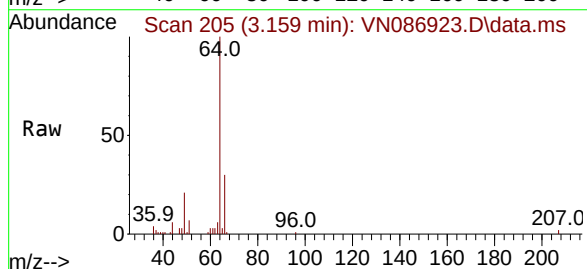
Manual Integrations
APPROVED

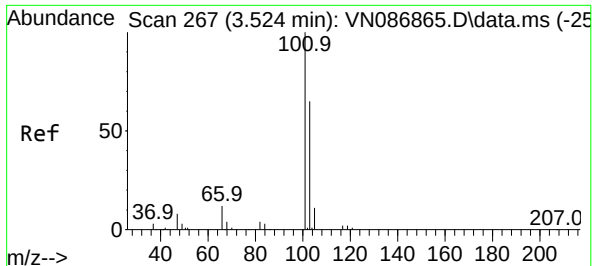
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#6
Chloroethane
Concen: 43.843 ug/l
RT: 3.159 min Scan# 205
Delta R.T. 0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

Tgt Ion: 64 Resp: 65054
Ion Ratio Lower Upper
64 100
66 30.2 24.6 36.8





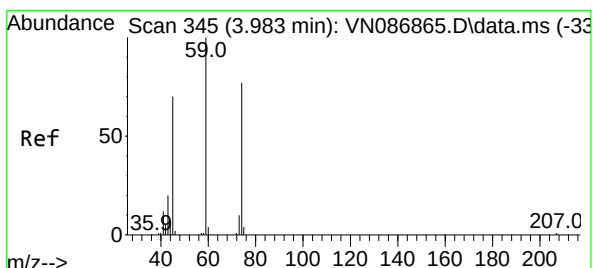
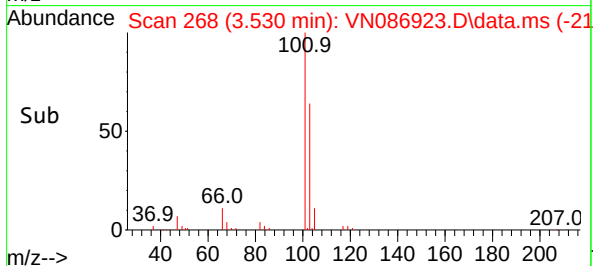
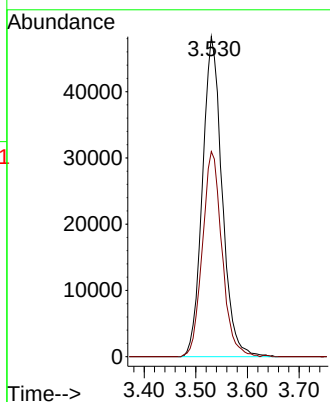
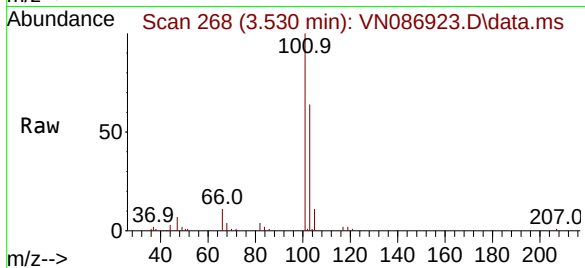
#7
Trichlorofluoromethane
Concen: 42.453 ug/l
RT: 3.530 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD

Tgt Ion: 101 Resp: 12741
Ion Ratio Lower Upper
101 100
103 64.1 52.2 78.2

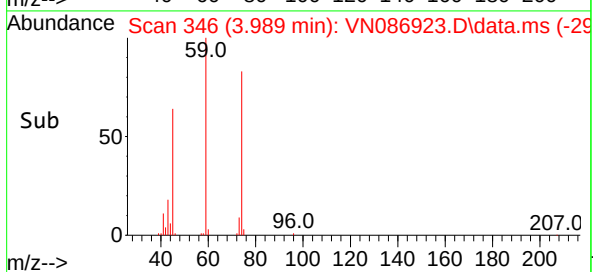
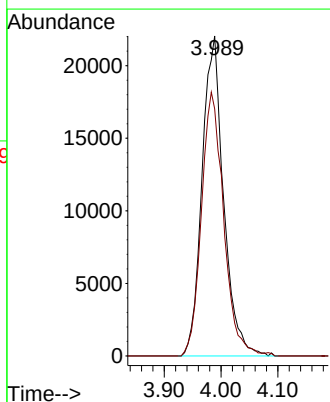
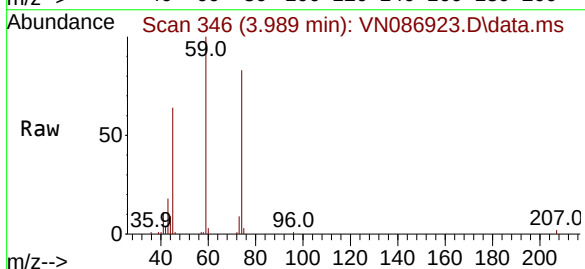
Manual Integrations
APPROVED

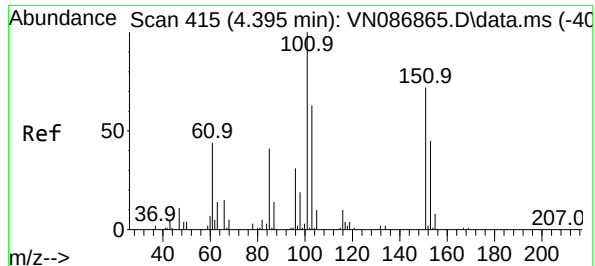
Reviewed By : John Carlone 06/11/2025
Supervised By : Mahesh Dadoda 06/11/2025



#8
Diethyl Ether
Concen: 44.275 ug/l
RT: 3.989 min Scan# 346
Delta R.T. 0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

Tgt Ion: 74 Resp: 57896
Ion Ratio Lower Upper
74 100
45 85.5 45.5 136.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 232.614 ug/l

RT: 4.401 min Scan# 415

Delta R.T. 0.006 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MSD

Tgt Ion:101 Resp: 438614

Ion Ratio Lower Upper

101 100

85 41.1 33.8 50.8

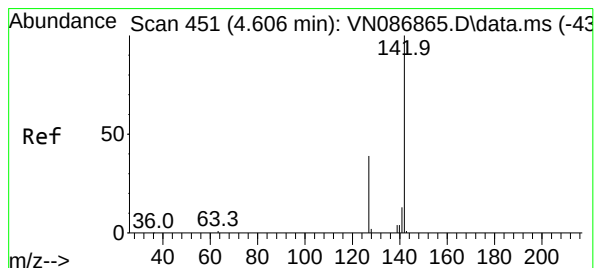
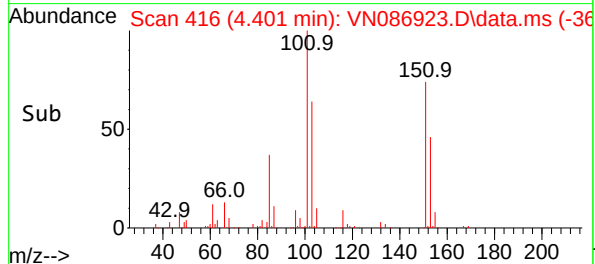
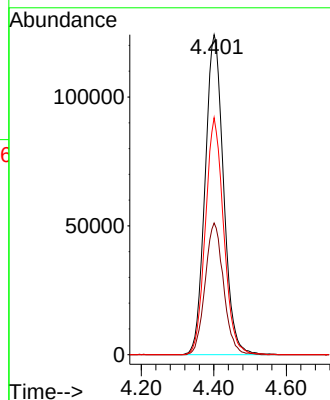
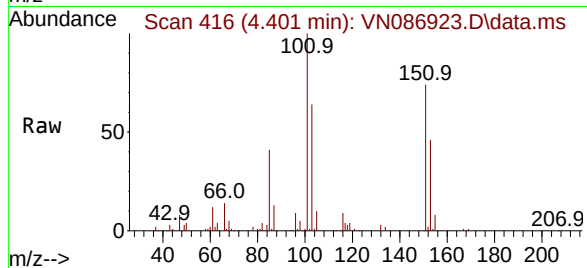
151 73.4 58.7 88.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#10

Methyl Iodide

Concen: 36.989 ug/l

RT: 4.618 min Scan# 453

Delta R.T. 0.012 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

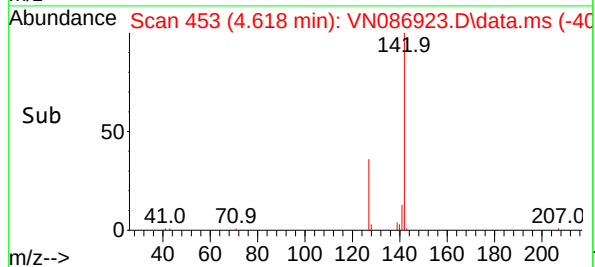
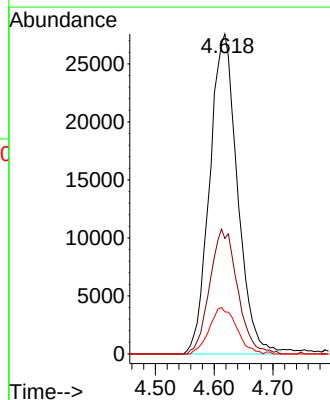
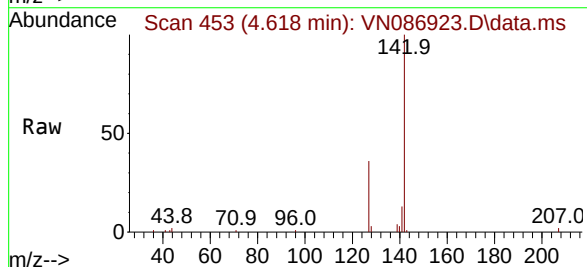
Tgt Ion:142 Resp: 90414

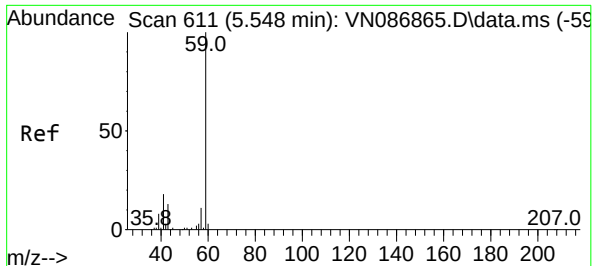
Ion Ratio Lower Upper

142 100

127 36.1 30.9 46.3

141 13.1 10.4 15.6





#11

Tert butyl alcohol

Concen: 188.644 ug/l

RT: 5.536 min Scan# 609

Delta R.T. -0.012 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MSD

Tgt Ion: 59 Resp: 11853

Ion Ratio Lower Upper

59 100

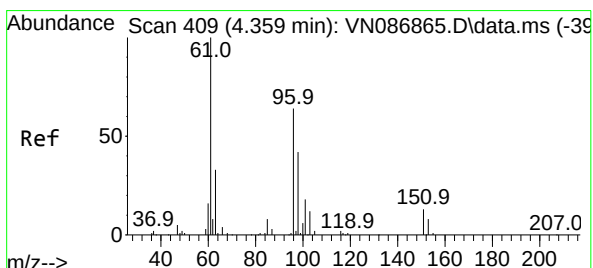
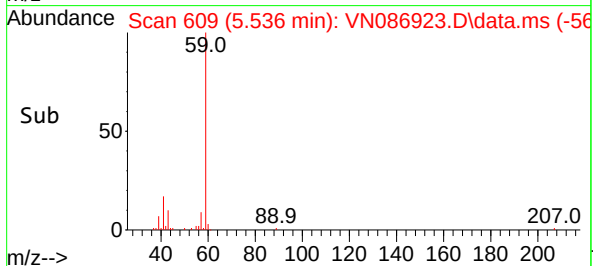
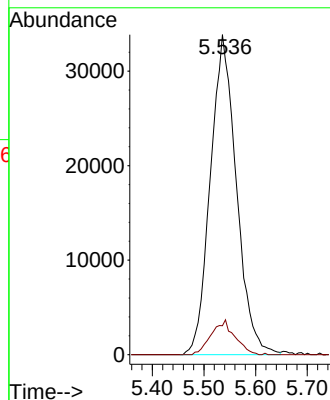
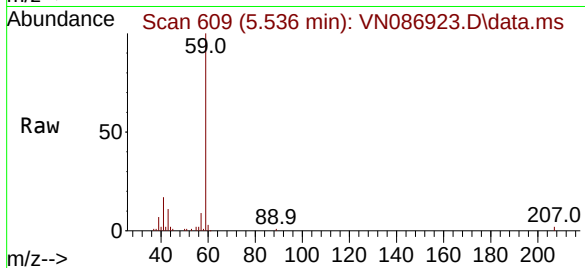
57 9.8 8.1 12.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#12

1,1-Dichloroethene

Concen: 53.068 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.012 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

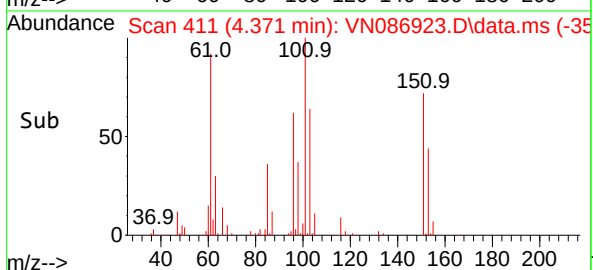
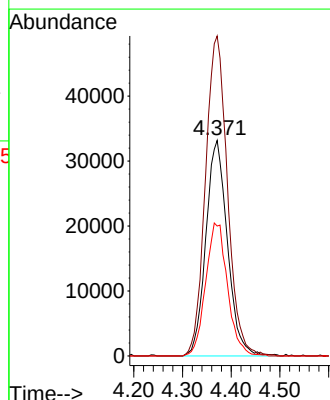
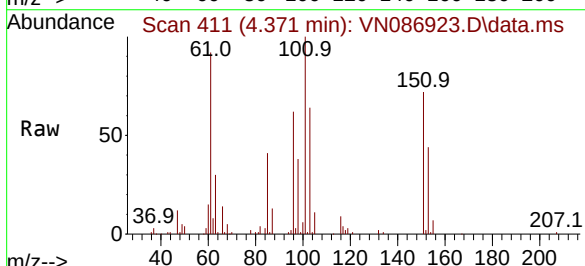
Tgt Ion: 96 Resp: 102158

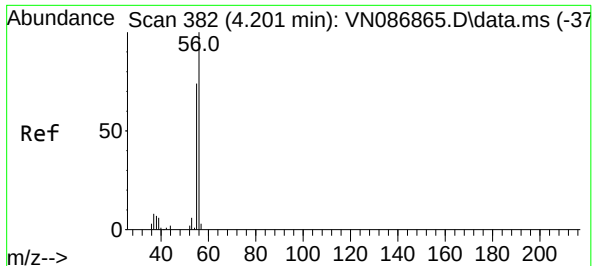
Ion Ratio Lower Upper

96 100

61 148.5 125.8 188.6

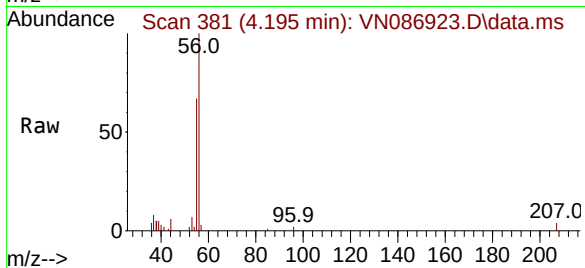
98 60.2 52.5 78.7





#13
Acrolein
Concen: 169.038 ug/l
RT: 4.195 min Scan# 382
Delta R.T. -0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

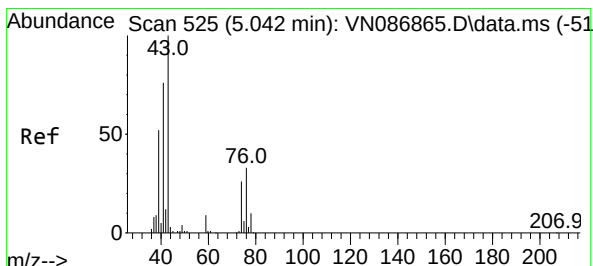
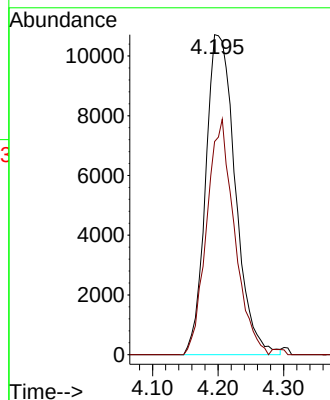
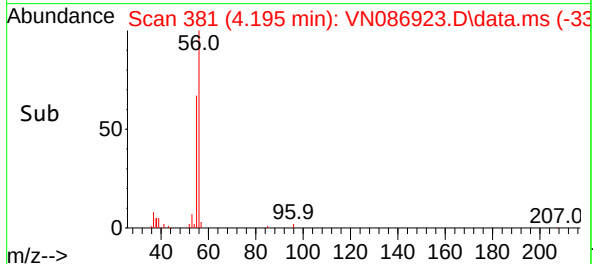
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



Tgt Ion: 56 Resp: 33620
Ion Ratio Lower Upper
56 100
55 69.1 55.6 83.4

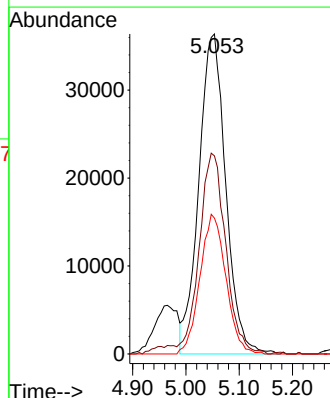
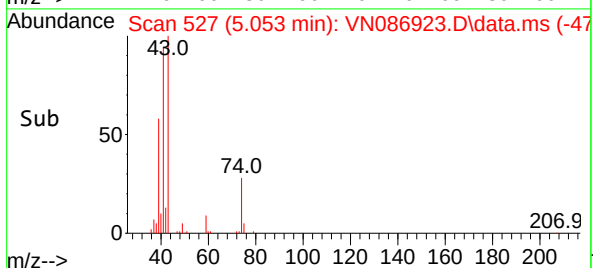
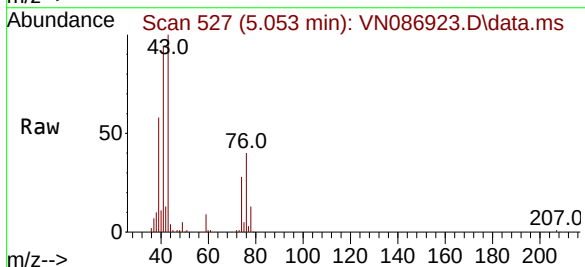
Manual Integrations
APPROVED

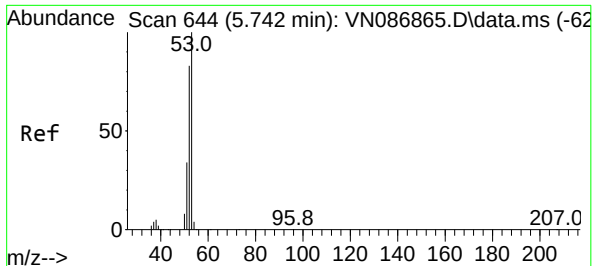
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#14
Allyl chloride
Concen: 40.078 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.012 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

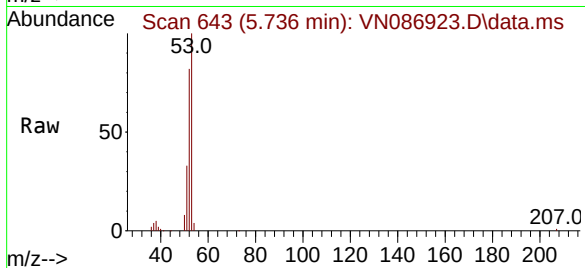
Tgt Ion: 41 Resp: 127951
Ion Ratio Lower Upper
41 100
39 61.5 51.3 76.9
76 42.0 31.4 47.0





#15
Acrylonitrile
Concen: 210.315 ug/l
RT: 5.736 min Scan# 644
Delta R.T. -0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

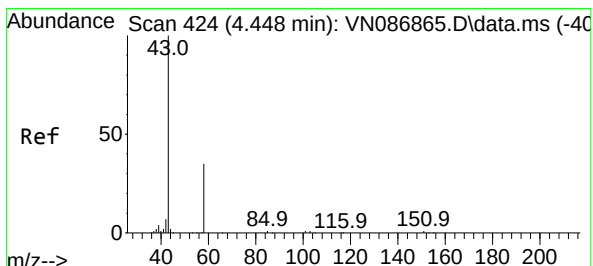
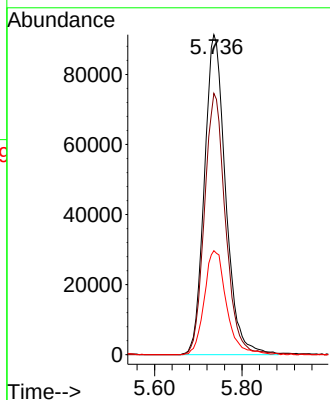
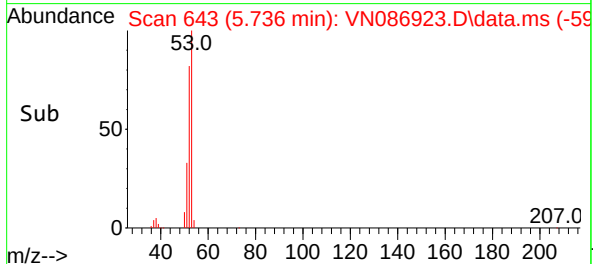
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



Tgt Ion: 53 Resp: 308878
Ion Ratio Lower Upper
53 100
52 81.0 65.0 97.6
51 33.8 27.2 40.8

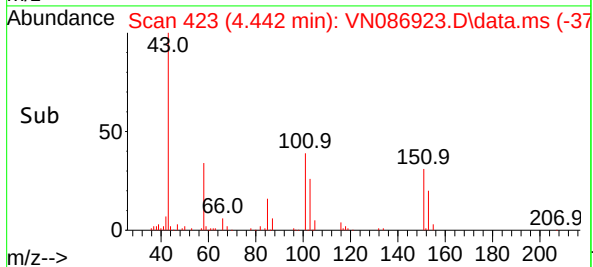
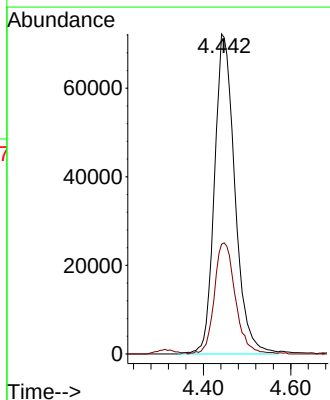
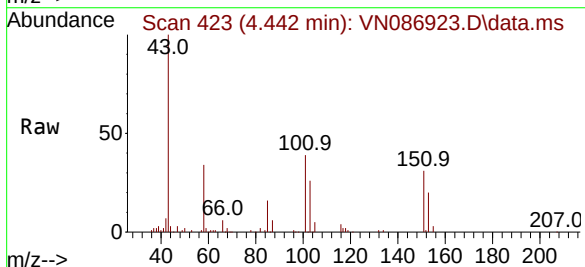
Manual Integrations
APPROVED

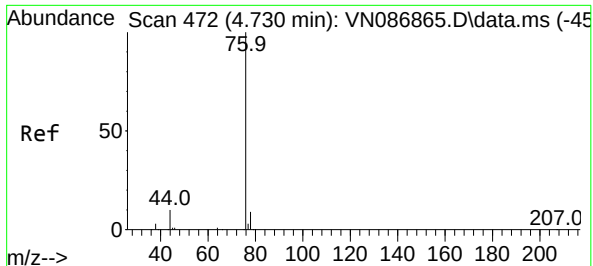
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#16
Acetone
Concen: 190.517 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

Tgt Ion: 43 Resp: 233959
Ion Ratio Lower Upper
43 100
58 34.0 28.0 42.0





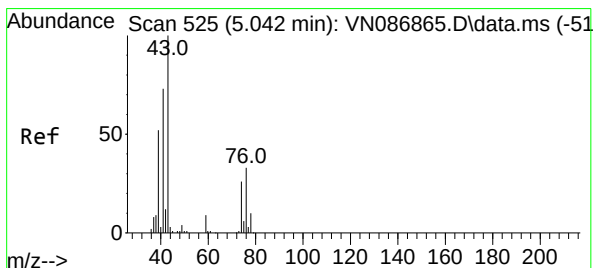
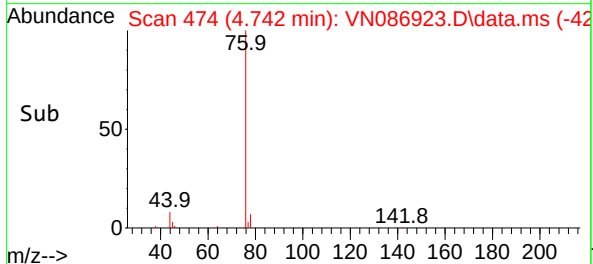
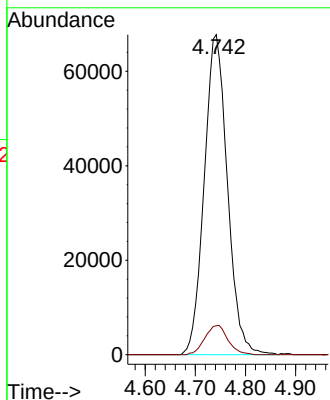
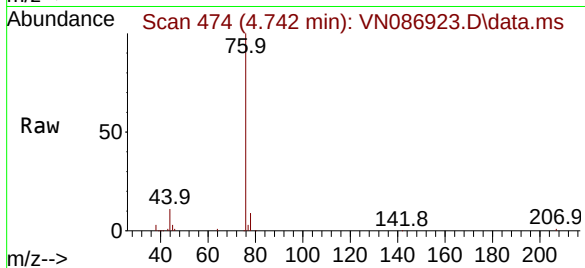
#17
Carbon Disulfide
Concen: 40.910 ug/l
RT: 4.742 min Scan# 472
Delta R.T. 0.012 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD

Tgt Ion: 76 Resp: 21783
Ion Ratio Lower Upper
76 100
78 9.1 7.3 10.9

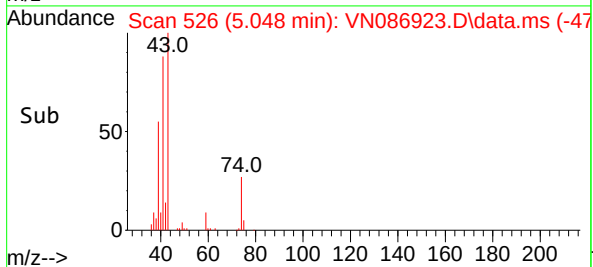
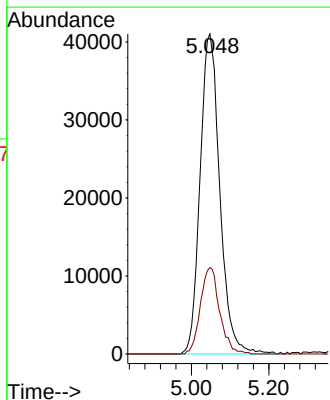
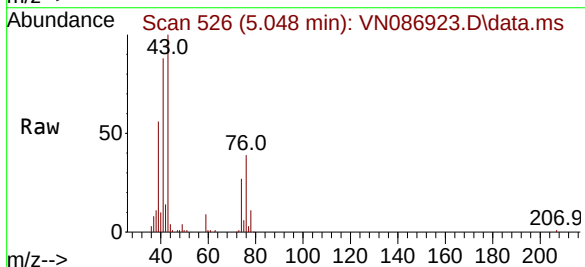
Manual Integrations
APPROVED

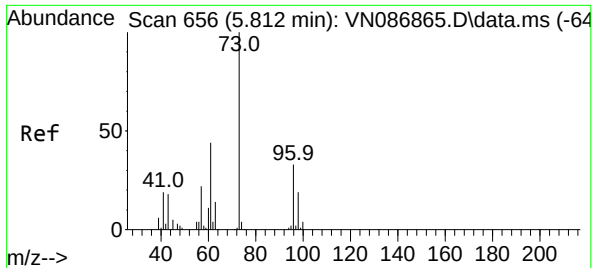
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#18
Methyl Acetate
Concen: 40.466 ug/l
RT: 5.048 min Scan# 526
Delta R.T. 0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

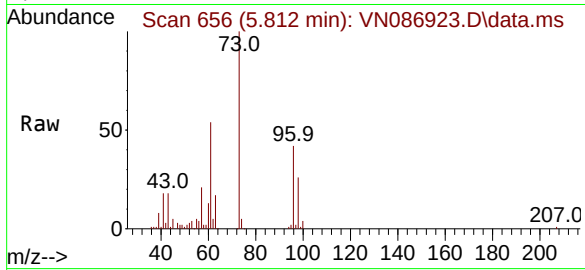
Tgt Ion: 43 Resp: 144814
Ion Ratio Lower Upper
43 100
74 26.3 20.7 31.1





#19
Methyl tert-butyl Ether
Concen: 43.098 ug/l
RT: 5.812 min Scan# 61
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

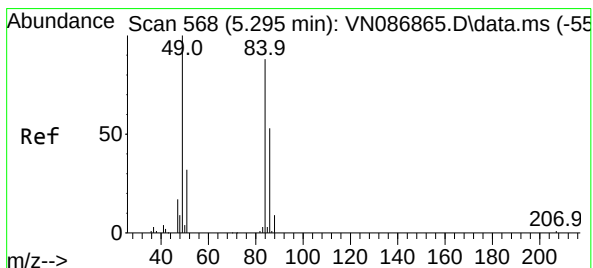
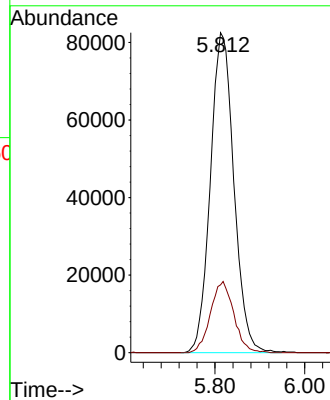
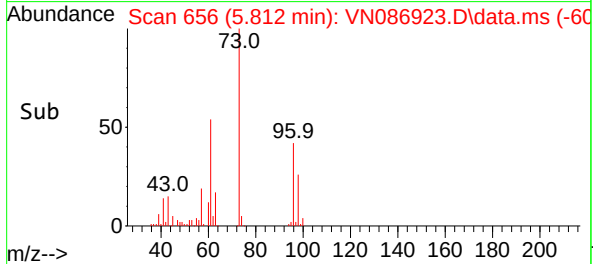
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



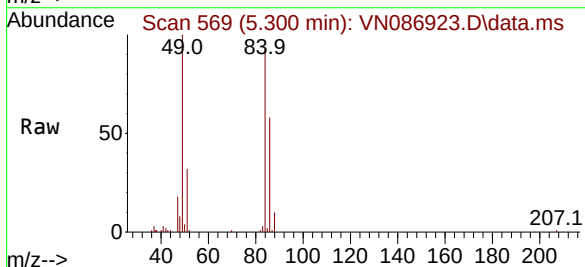
Tgt Ion: 73 Resp: 300398
Ion Ratio Lower Upper
73 100
57 21.2 17.4 26.2

Manual Integrations
APPROVED

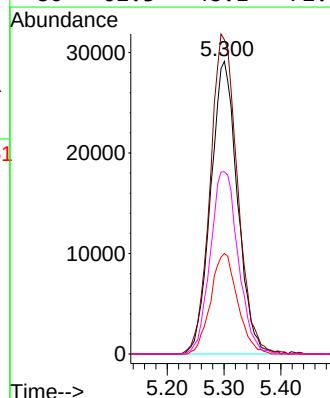
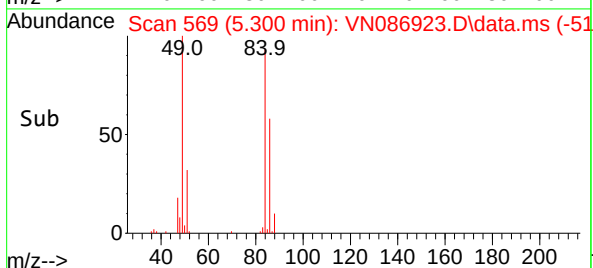
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

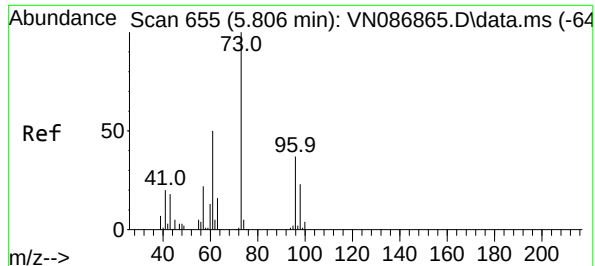


#20
Methylene Chloride
Concen: 41.521 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12



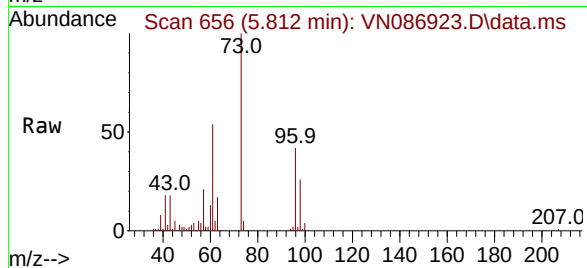
Tgt Ion: 84 Resp: 95461
Ion Ratio Lower Upper
84 100
49 107.3 90.5 135.7
51 34.3 28.5 42.7
86 62.3 48.1 72.1





#21
trans-1,2-Dichloroethene
Concen: 50.646 ug/l
RT: 5.812 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

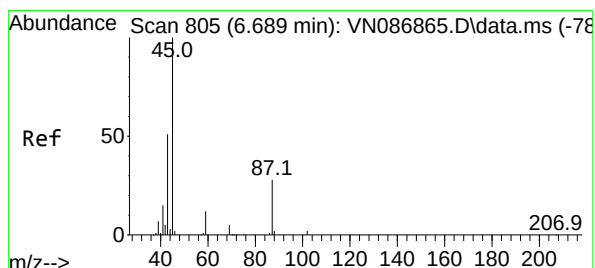
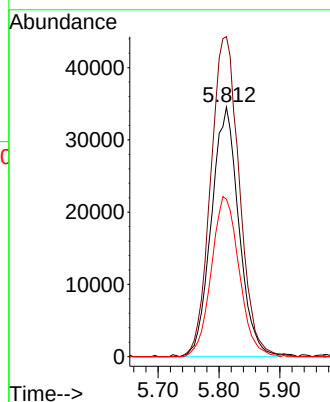
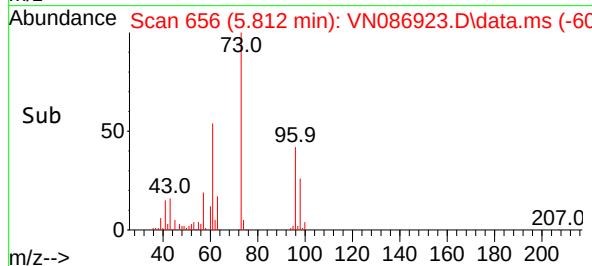
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



Tgt Ion: 96 Resp: 108472
Ion Ratio Lower Upper
96 100
61 128.2 109.2 163.8
98 63.1 49.8 74.8

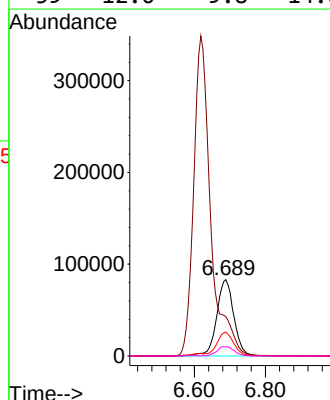
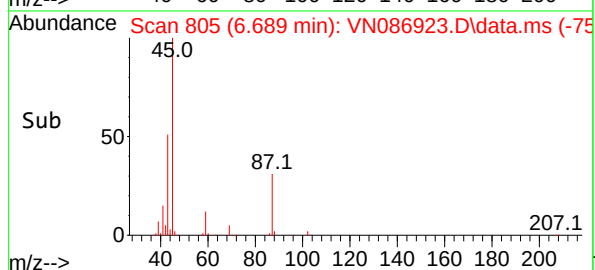
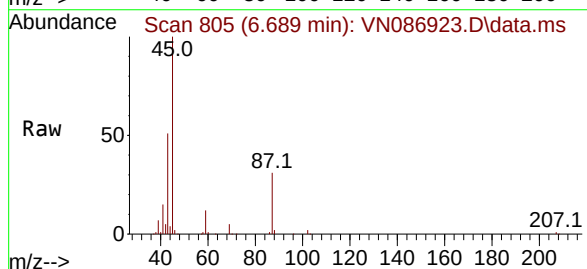
Manual Integrations
APPROVED

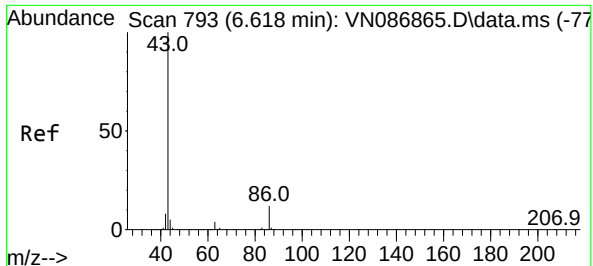
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#22
Diisopropyl ether
Concen: 41.216 ug/l
RT: 6.689 min Scan# 805
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

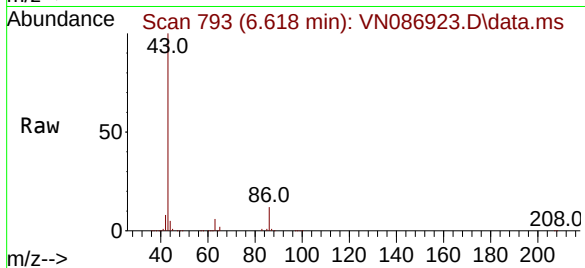
Tgt Ion: 45 Resp: 277373
Ion Ratio Lower Upper
45 100
43 51.1 41.9 62.9
87 31.4 22.4 33.6
59 12.0 9.8 14.6





#23
Vinyl Acetate
Concen: 203.959 ug/l
RT: 6.618 min Scan# 793
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

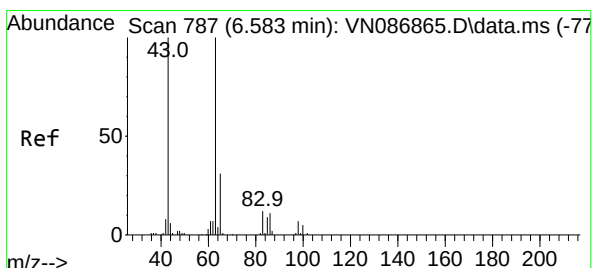
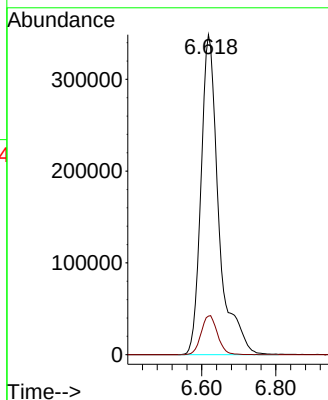
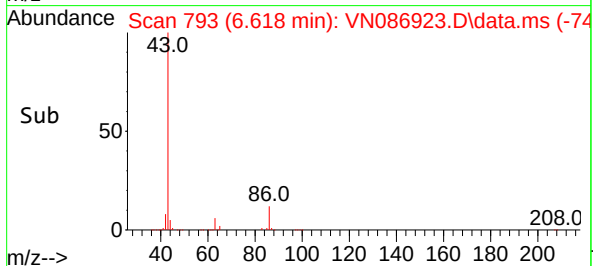
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



Tgt Ion: 43 Resp: 1159679
Ion Ratio Lower Upper
43 100
86 12.1 9.5 14.3

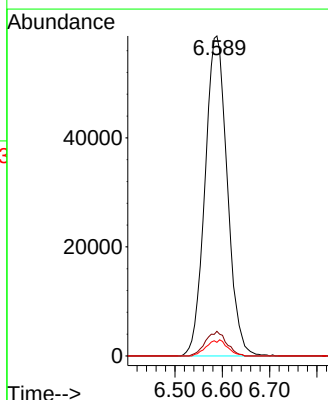
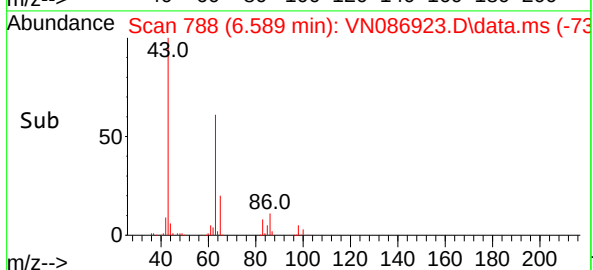
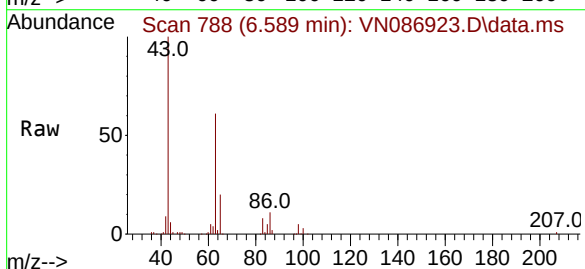
Manual Integrations
APPROVED

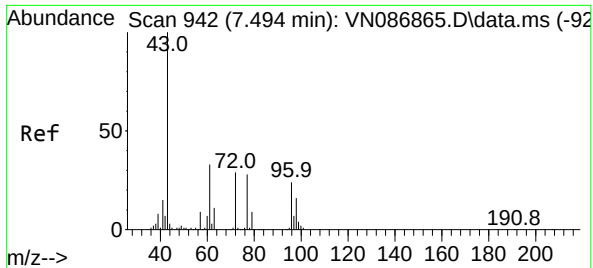
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#24
1,1-Dichloroethane
Concen: 49.470 ug/l
RT: 6.589 min Scan# 788
Delta R.T. 0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

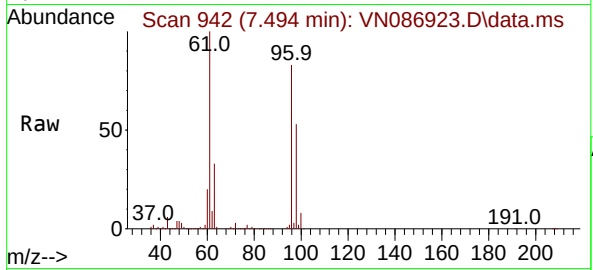
Tgt Ion: 63 Resp: 191588
Ion Ratio Lower Upper
63 100
98 7.7 3.6 10.8
100 4.3 2.6 7.8





#25
2-Butanone
Concen: 196.276 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

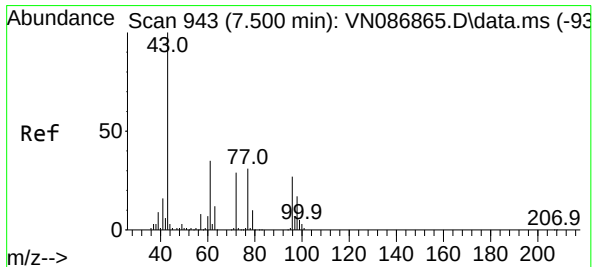
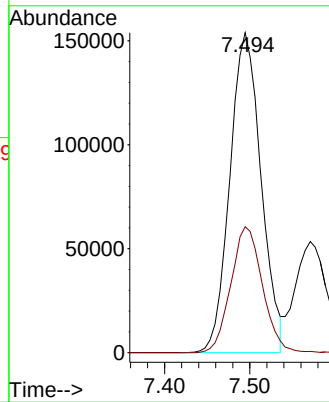
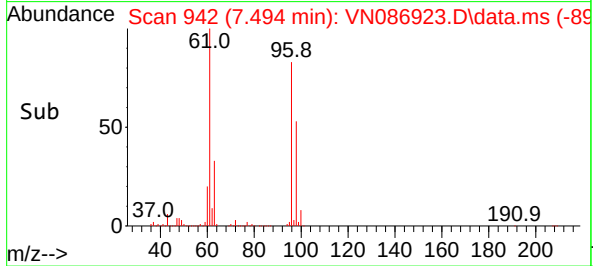
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



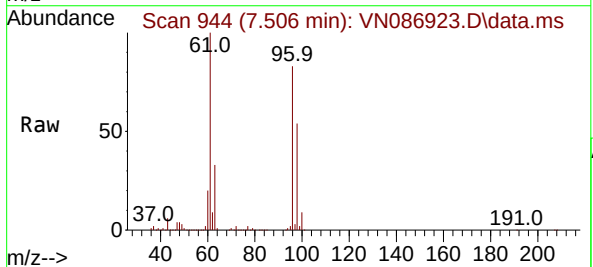
Tgt Ion: 43 Resp: 391789
Ion Ratio Lower Upper
43 100
72 39.4 23.0 34.6

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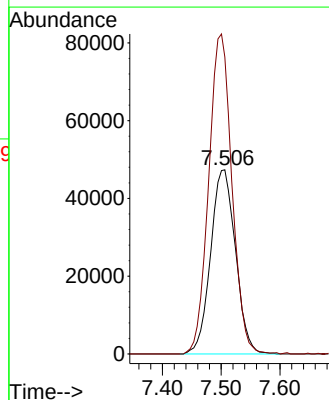
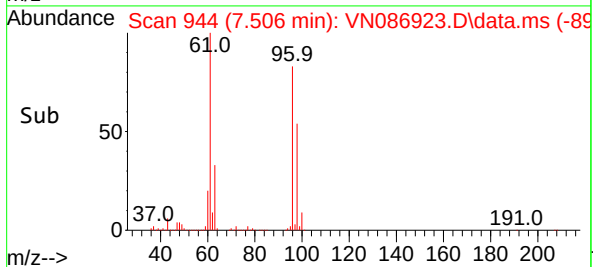
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

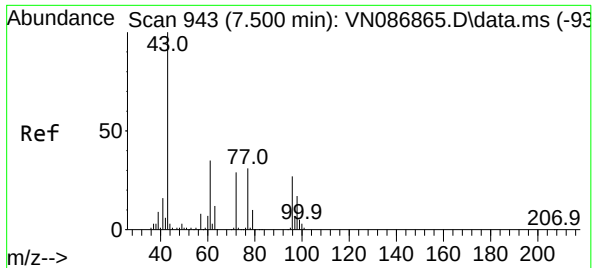


#26
2,2-Dichloropropane
Concen: 46.267 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12



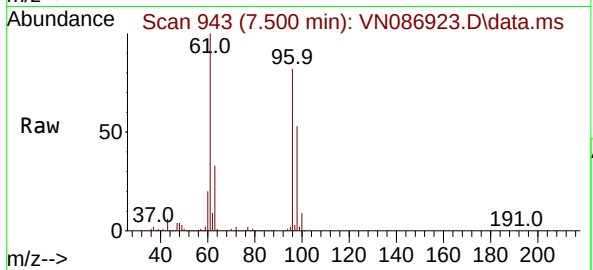
Tgt Ion: 77 Resp: 139381
Ion Ratio Lower Upper
77 100
97 162.1 11.6 34.7





#27
cis-1,2-Dichloroethene
Concen: 2128.127 ug/l
RT: 7.500 min Scan# 943
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

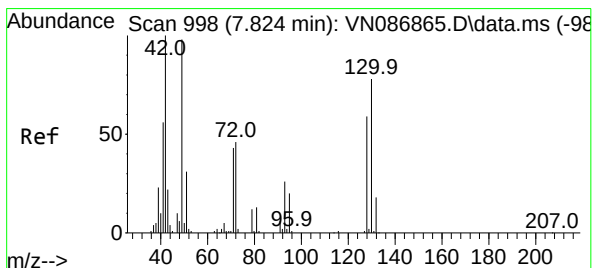
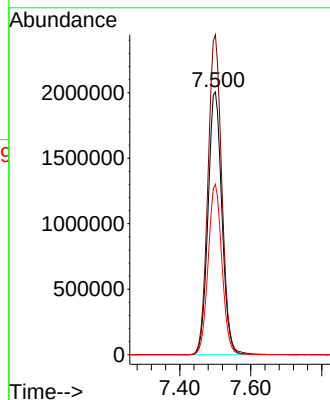
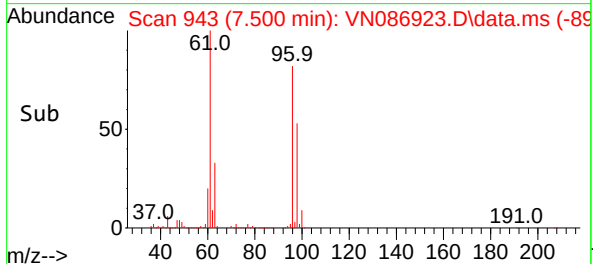
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



Tgt Ion: 96 Resp: 5451059
Ion Ratio Lower Upper
96 100
61 121.6 0.0 278.0
98 64.4 0.0 128.2

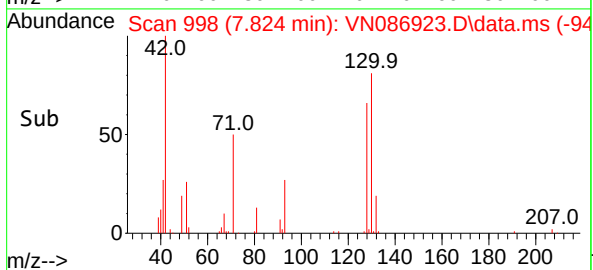
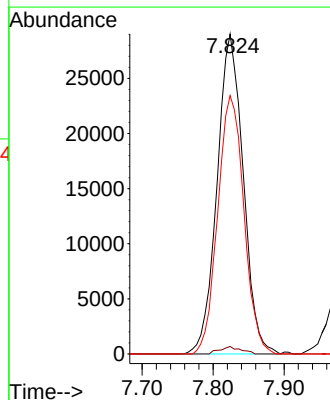
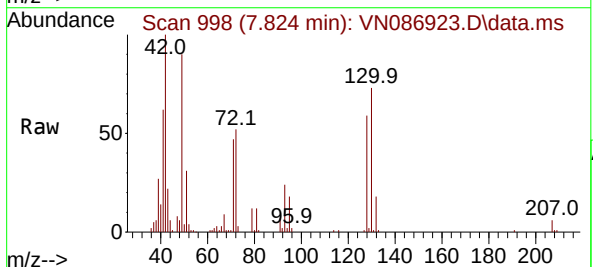
Manual Integrations
APPROVED

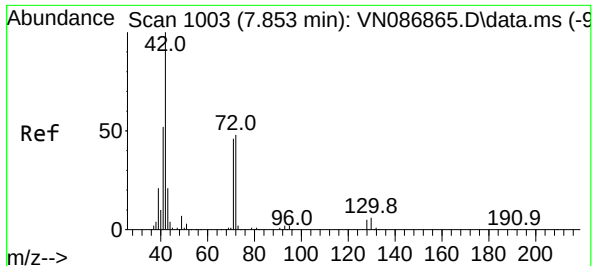
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#28
Bromochloromethane
Concen: 38.924 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

Tgt Ion: 49 Resp: 74118
Ion Ratio Lower Upper
49 100
129 1.9 0.0 3.8
130 80.7 62.2 93.2





#29

Tetrahydrofuran

Concen: 202.731 ug/l

RT: 7.847 min Scan# 1002

Delta R.T. -0.006 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MSD

Tgt Ion: 42 Resp: 263610

Ion Ratio Lower Upper

42 100

72 50.3 37.8 56.6

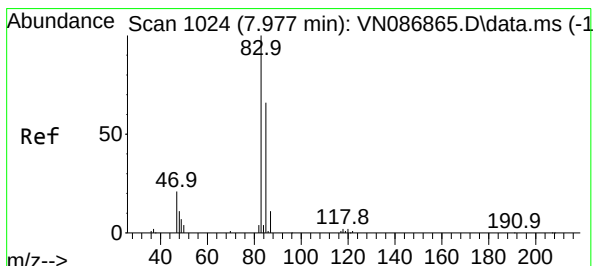
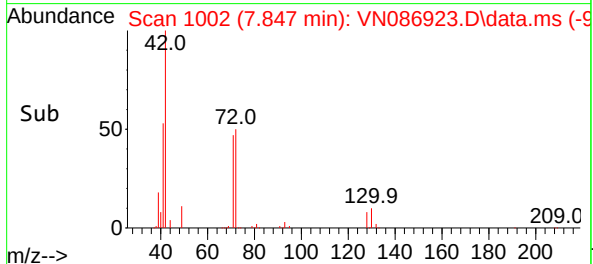
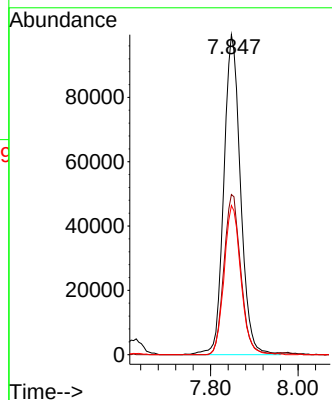
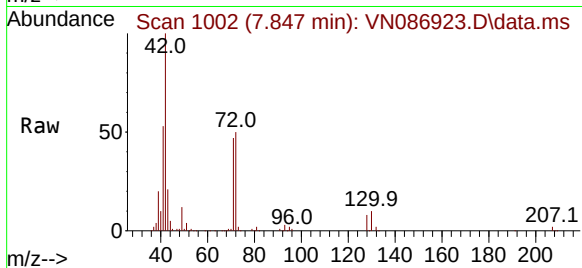
71 46.7 35.6 53.4

Manual Integrations

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Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#30

Chloroform

Concen: 42.052 ug/l

RT: 7.977 min Scan# 1024

Delta R.T. -0.000 min

Lab File: VN086923.D

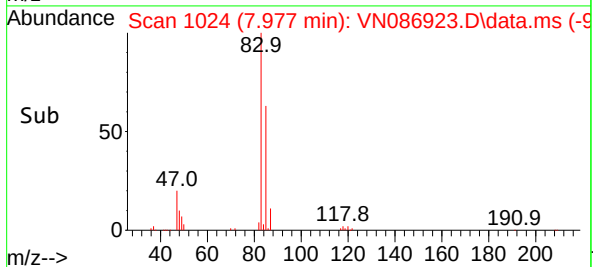
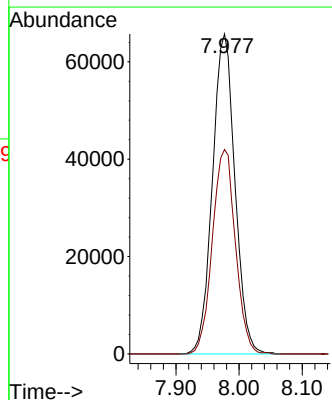
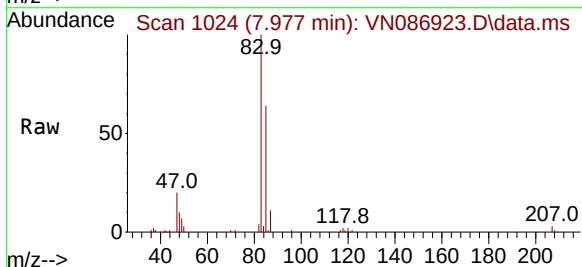
Acq: 10 Jun 2025 13:12

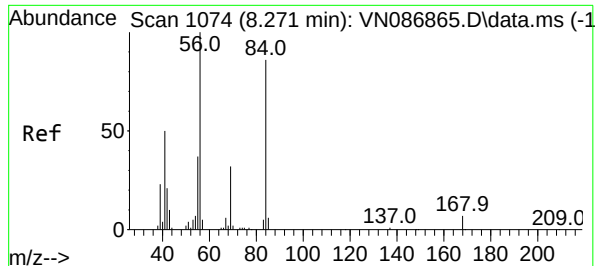
Tgt Ion: 83 Resp: 162638

Ion Ratio Lower Upper

83 100

85 63.9 52.9 79.3





#31

Cyclohexane

Concen: 35.653 ug/l

RT: 8.265 min Scan# 1073

Delta R.T. -0.006 min

Lab File: VN086923.D

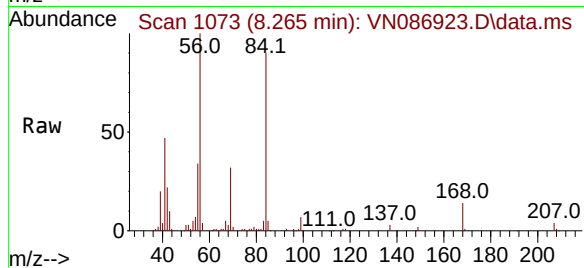
Acq: 10 Jun 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MSD



Tgt Ion: 56 Resp: 133904

Ion Ratio Lower Upper

56 100

69 32.0 25.4 38.0

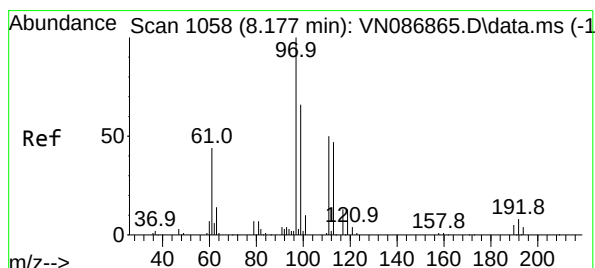
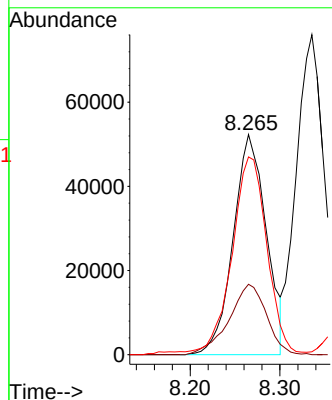
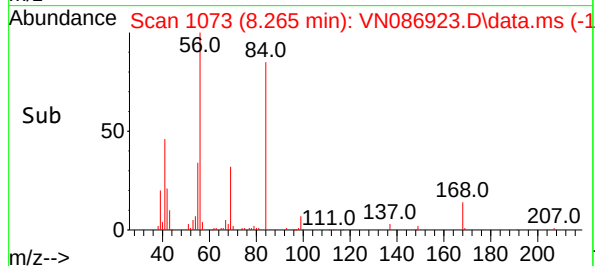
84 88.4 68.8 103.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#32

1,1,1-Trichloroethane

Concen: 41.359 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

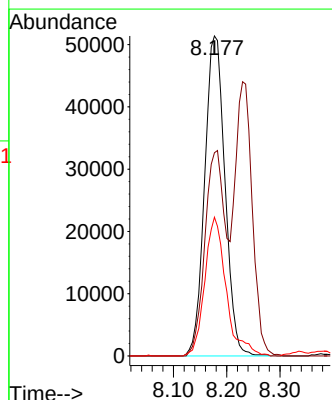
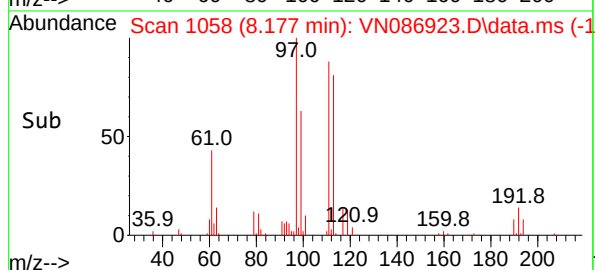
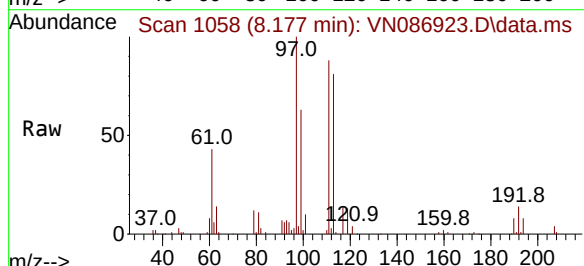
Tgt Ion: 97 Resp: 136050

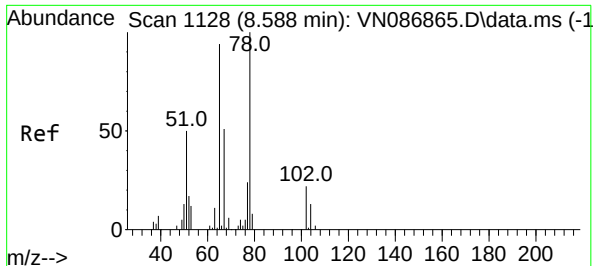
Ion Ratio Lower Upper

97 100

99 65.9 52.0 78.0

61 45.7 35.9 53.9





#33

1,2-Dichloroethane-d4

Concen: 52.657 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MSD

Tgt Ion: 65 Resp: 12193

Ion Ratio Lower Upper

65 100

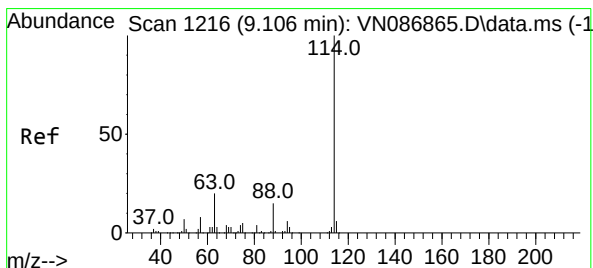
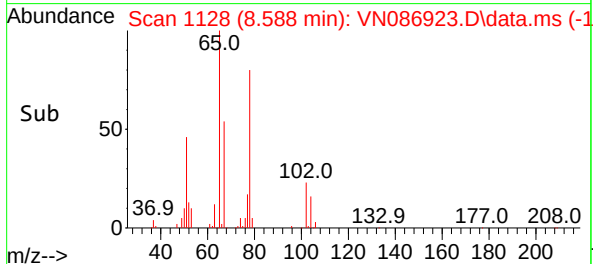
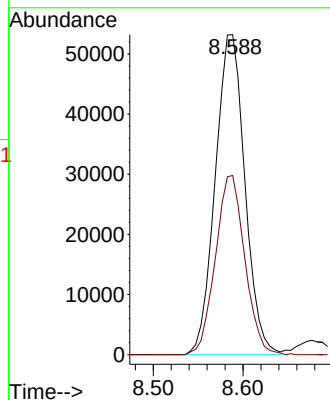
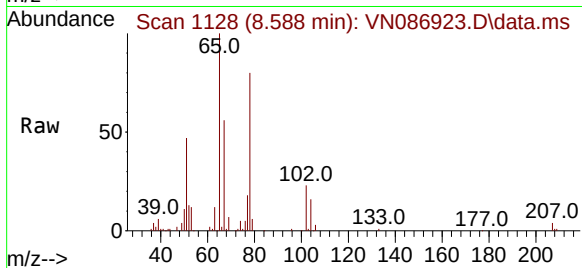
67 55.5 0.0 105.6

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: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

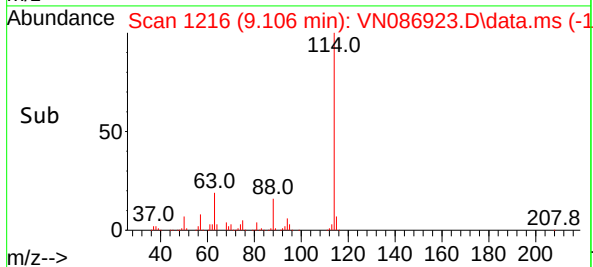
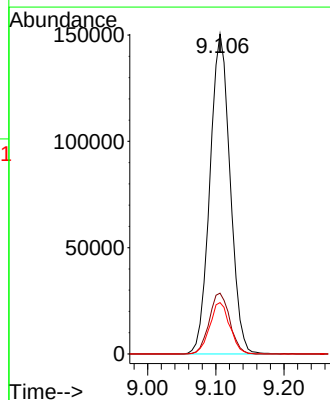
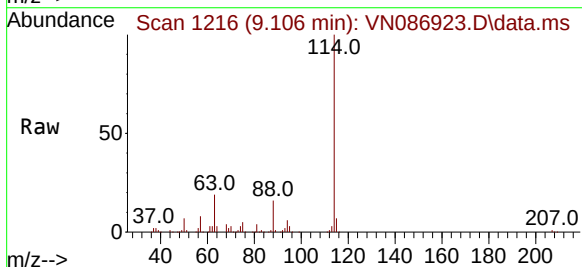
Tgt Ion:114 Resp: 309901

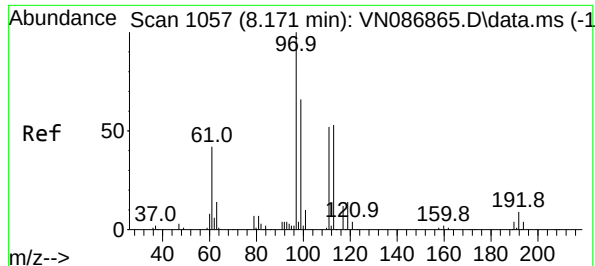
Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.6

88 16.1 0.0 30.2





#35

Dibromofluoromethane

Concen: 56.601 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MSD

Tgt Ion:113 Resp: 103950

Ion Ratio Lower Upper

113 100

111 103.1 84.2 126.2

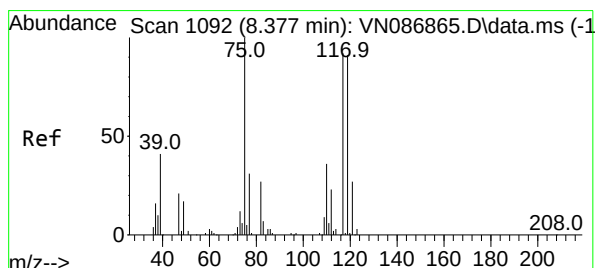
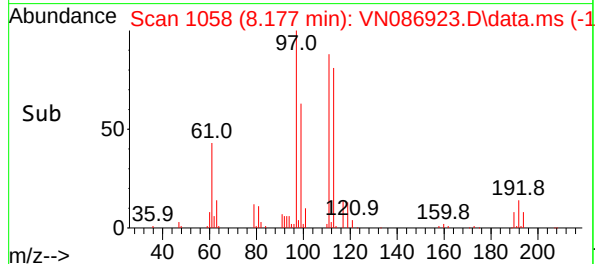
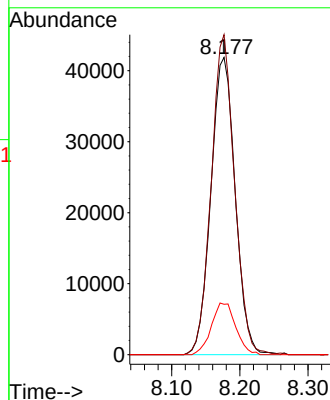
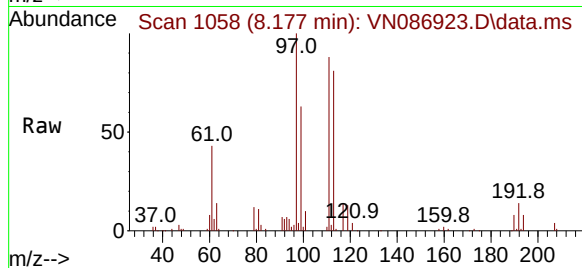
192 17.4 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#36

1,1-Dichloropropene

Concen: 42.946 ug/l

RT: 8.377 min Scan# 1092

Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

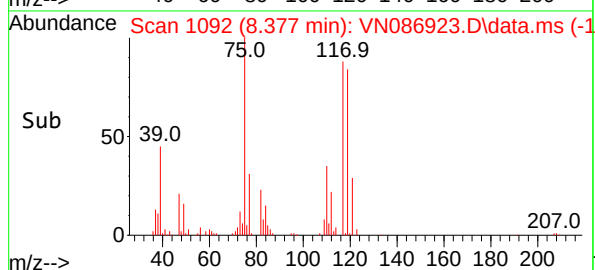
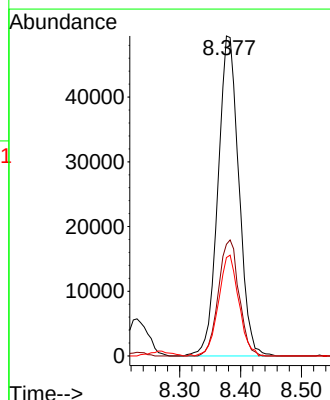
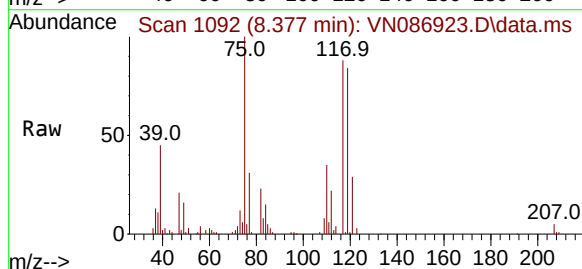
Tgt Ion: 75 Resp: 117527

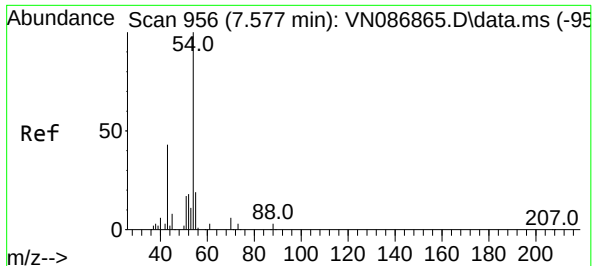
Ion Ratio Lower Upper

75 100

110 35.8 17.6 52.9

77 30.8 25.3 37.9





#37

Ethyl Acetate

Concen: 40.039 ug/l

RT: 7.571 min Scan# 90

Delta R.T. -0.006 min

Lab File: VN086923.D

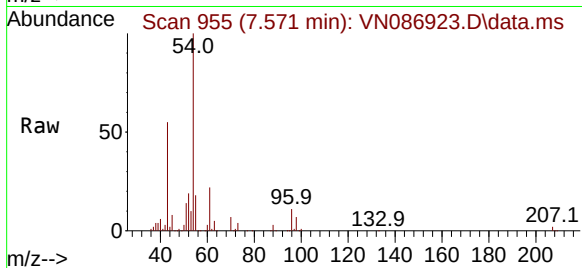
Acq: 10 Jun 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MSD



Tgt Ion: 43 Resp: 13948

Ion Ratio Lower Upper

43 100

61 0.0 12.1 18.1

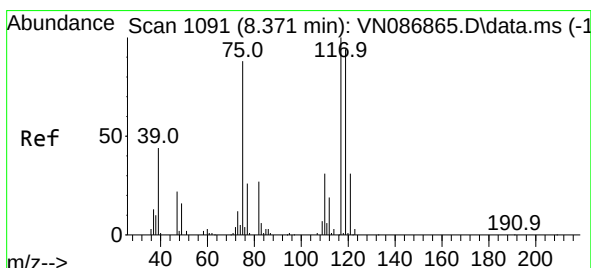
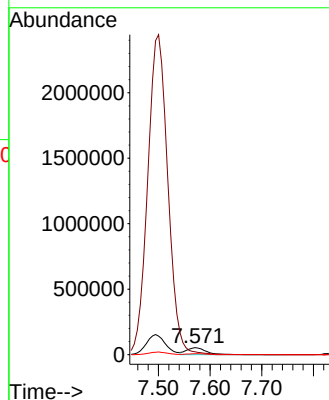
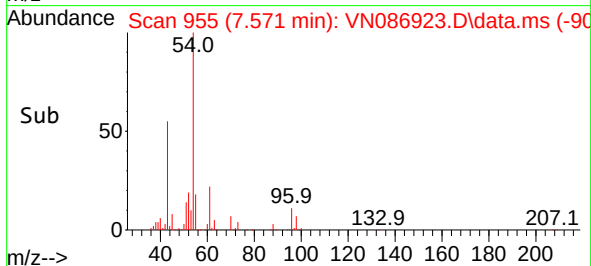
70 13.3 9.8 14.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#38

Carbon Tetrachloride

Concen: 42.334 ug/l

RT: 8.371 min Scan# 1091

Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

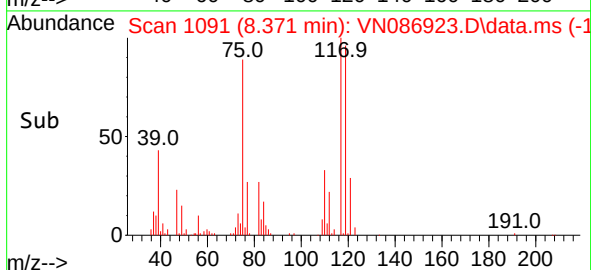
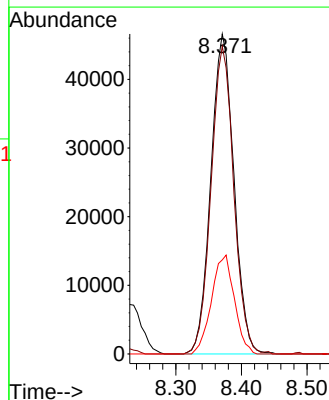
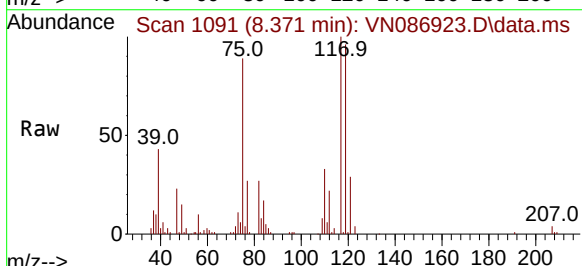
Tgt Ion:117 Resp: 113739

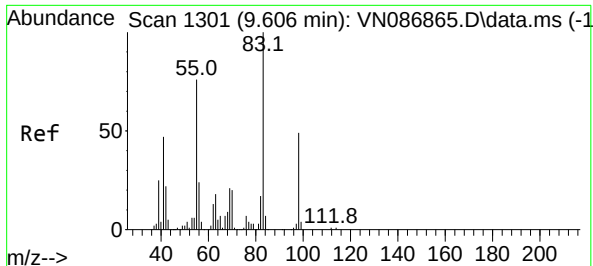
Ion Ratio Lower Upper

117 100

119 96.2 75.0 112.6

121 29.4 24.9 37.3





#39

Methylcyclohexane

Concen: 35.522 ug/l

RT: 9.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

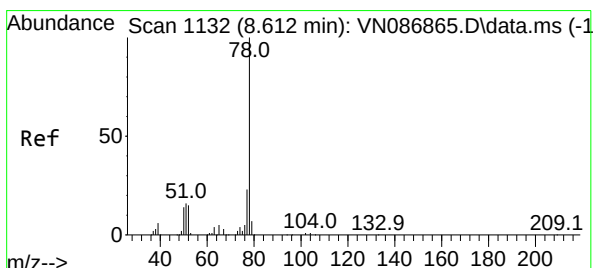
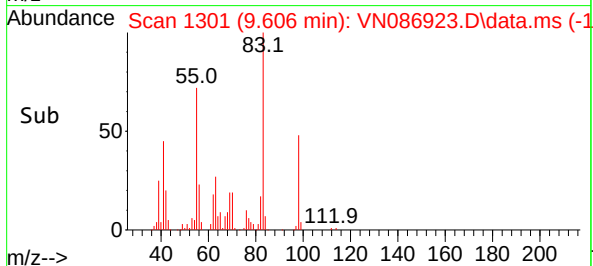
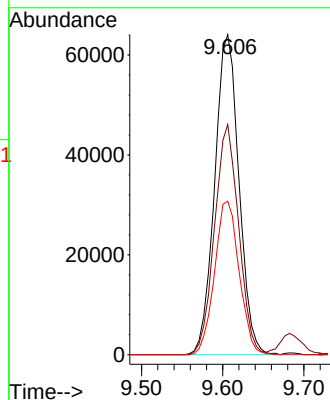
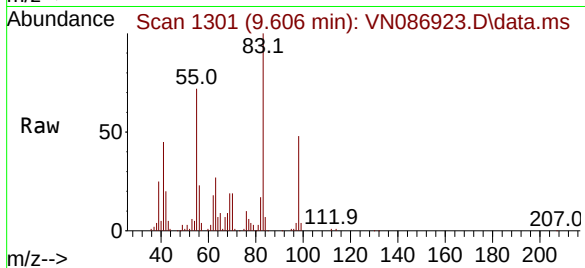
MW-11A-13.5-060525MSD

Tgt Ion:	83	Resp:	13318
Ion	Ratio	Lower	Upper
83	100		
55	71.9	61.0	91.6
98	48.0	38.9	58.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#40

Benzene

Concen: 43.024 ug/l

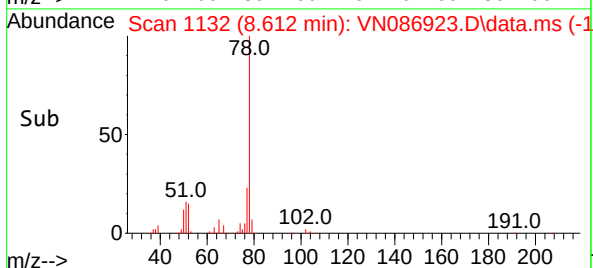
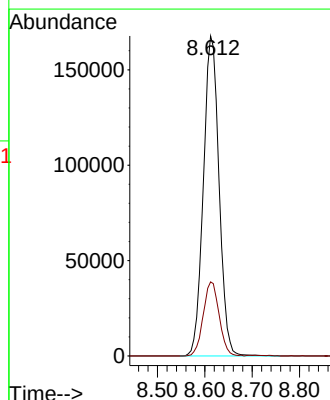
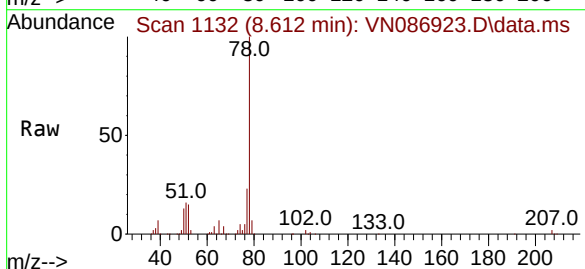
RT: 8.612 min Scan# 1132

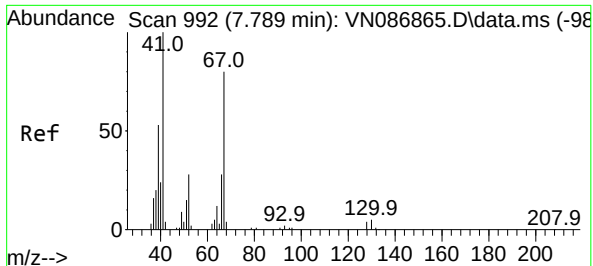
Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

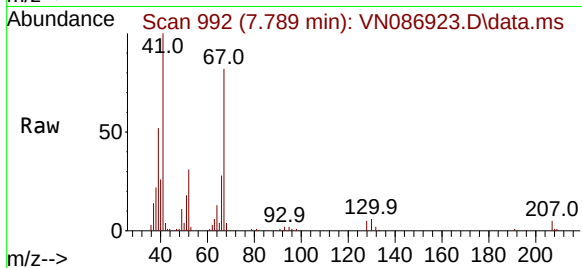
Tgt Ion:	78	Resp:	385021
Ion	Ratio	Lower	Upper
78	100		
77	23.1	18.7	28.1





#41
Methacrylonitrile
Concen: 42.189 ug/l
RT: 7.789 min Scan# 992
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

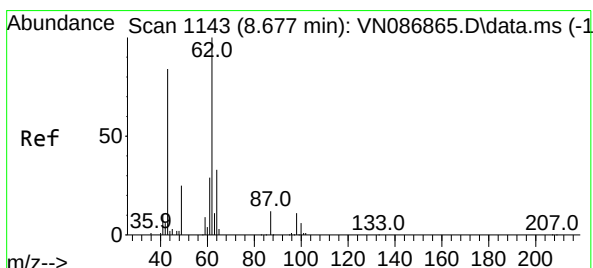
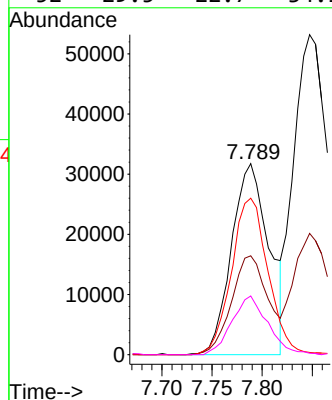
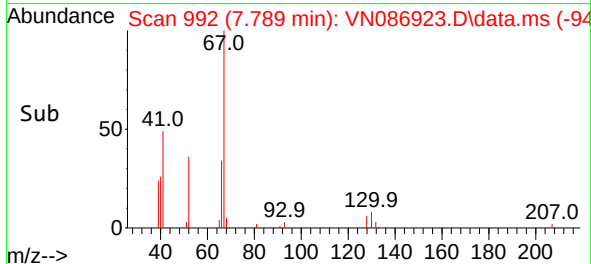
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



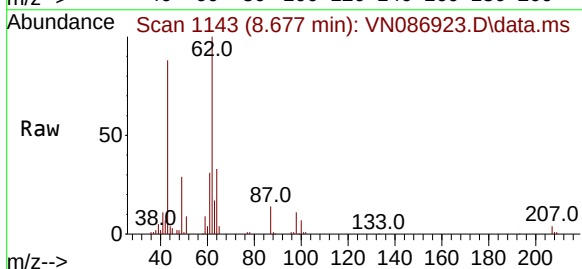
Tgt Ion: 41 Resp: 8254
Ion Ratio Lower Upper
41 100
39 50.7 41.2 61.8
67 80.4 61.4 92.2
52 29.5 22.7 34.1

Manual Integrations
APPROVED

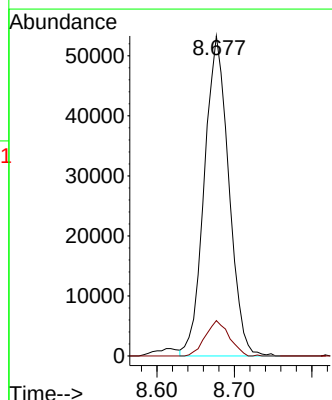
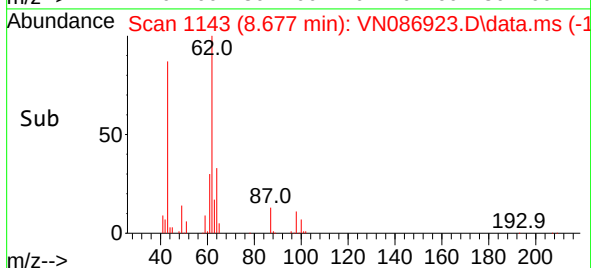
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

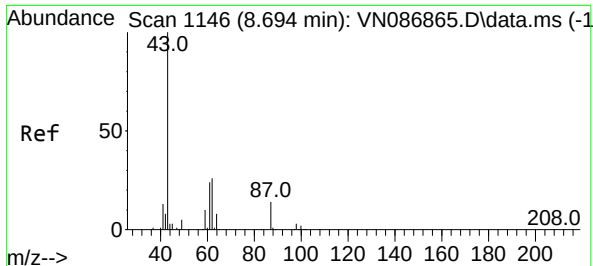


#42
1,2-Dichloroethane
Concen: 43.063 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12



Tgt Ion: 62 Resp: 116885
Ion Ratio Lower Upper
62 100
98 10.7 0.0 21.2





#43

Isopropyl Acetate

Concen: 39.754 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

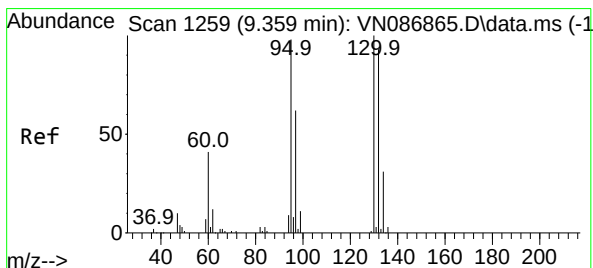
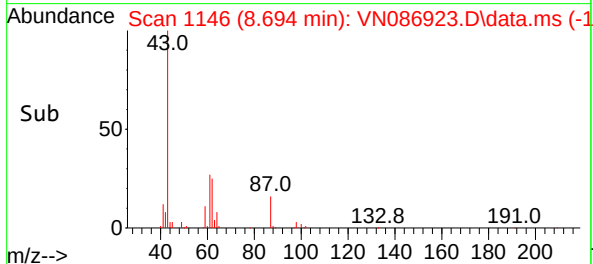
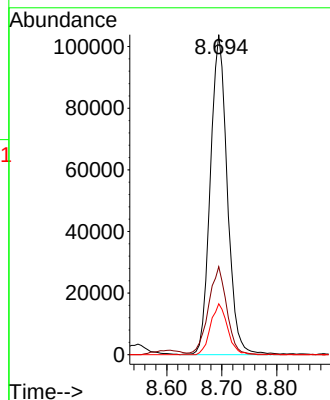
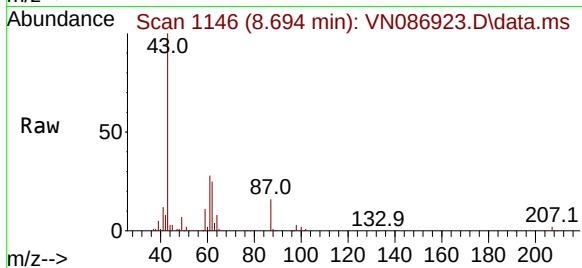
MW-11A-13.5-060525MSD

Tgt Ion:	43	Resp:	222284
Ion	Ratio	Lower	Upper
43	100		
61	29.8	22.1	33.1
87	15.9	11.8	17.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#44

Trichloroethene

Concen: 3266.653 ug/l

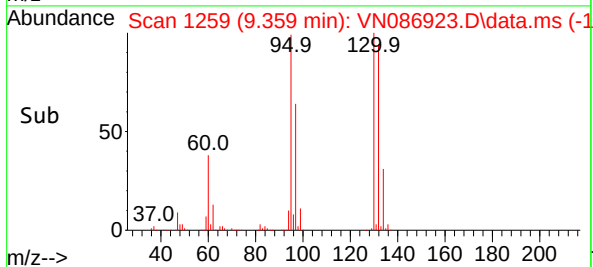
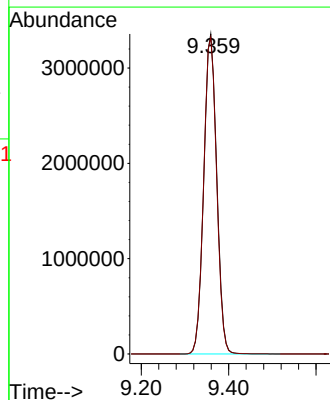
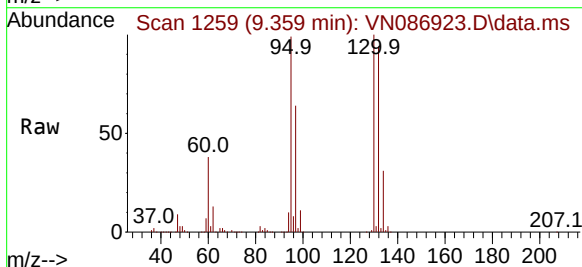
RT: 9.359 min Scan# 1259

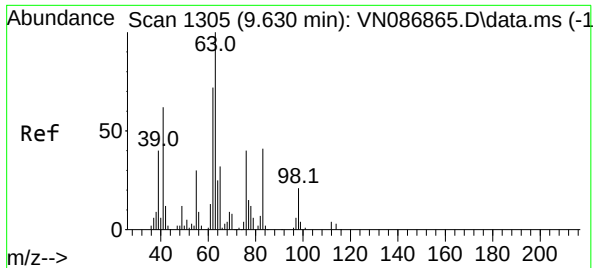
Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Tgt Ion:	130	Resp:	6931651
Ion	Ratio	Lower	Upper
130	100		
95	98.9	0.0	196.2





#45

1,2-Dichloropropane

Concen: 42.460 ug/l

RT: 9.624 min Scan# 1304

Delta R.T. -0.006 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MSD

Tgt Ion: 63 Resp: 9244

Ion Ratio Lower Upper

63 100

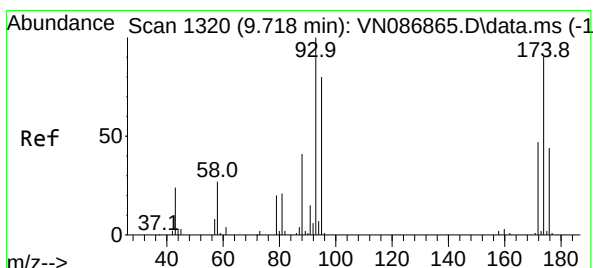
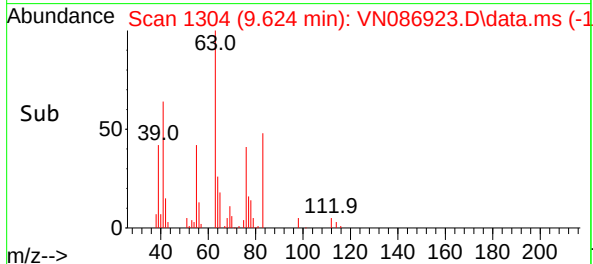
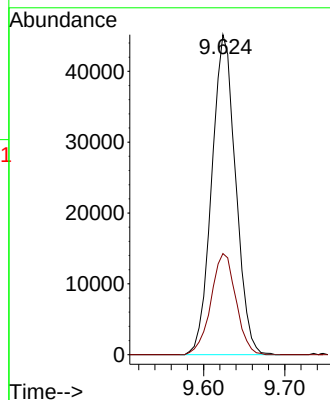
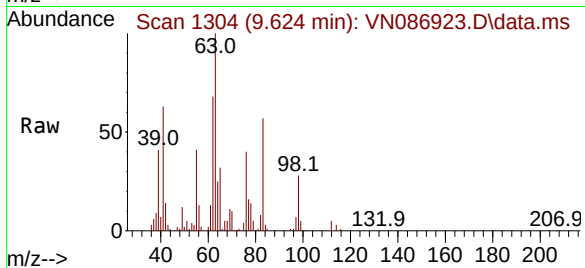
65 31.6 25.5 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#46

Dibromomethane

Concen: 44.837 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. -0.006 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

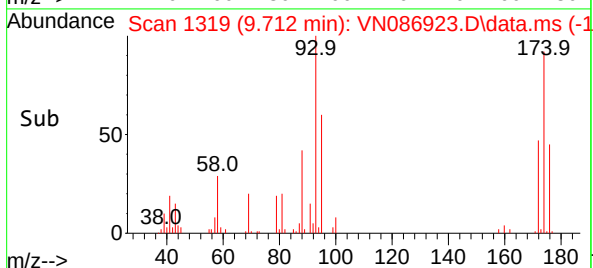
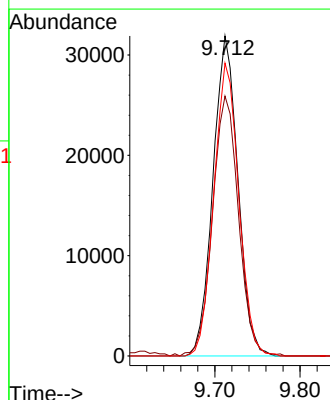
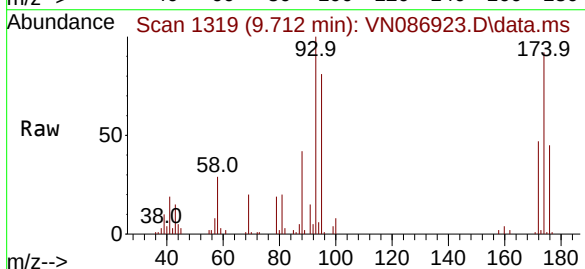
Tgt Ion: 93 Resp: 64838

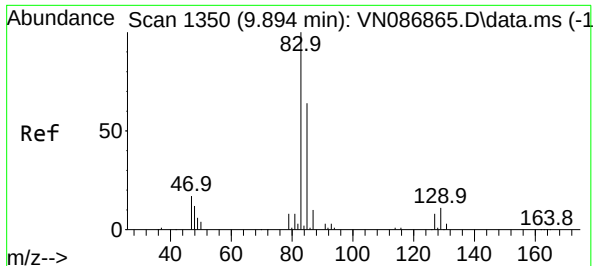
Ion Ratio Lower Upper

93 100

95 84.6 67.1 100.7

174 92.0 74.2 111.4





#47

Bromodichloromethane

Concen: 42.528 ug/l

RT: 9.888 min Scan# 1349

Delta R.T. -0.006 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

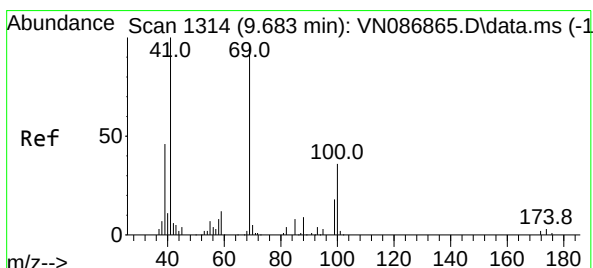
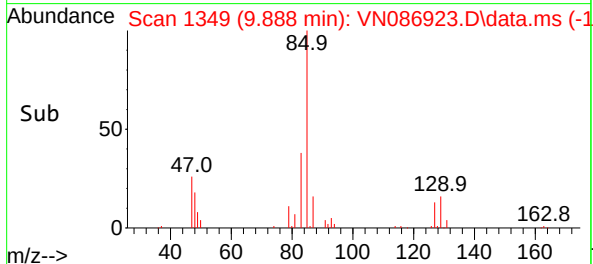
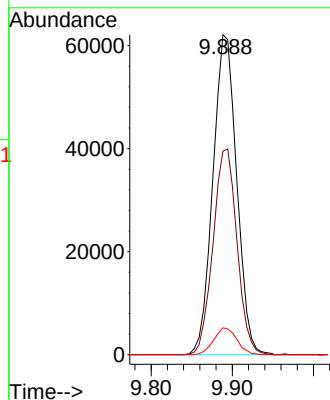
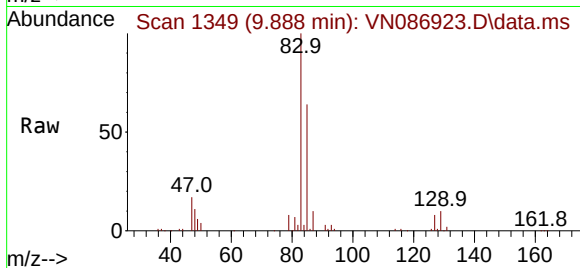
MW-11A-13.5-060525MSD

Tgt Ion:	83	Resp:	12653
Ion Ratio	Lower	Upper	
83	100		
85	63.6	50.9	76.3
127	8.4	6.6	10.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#48

Methyl methacrylate

Concen: 39.572 ug/l

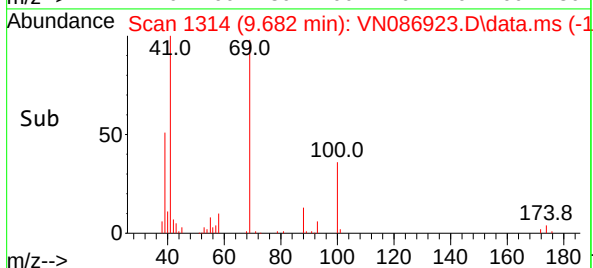
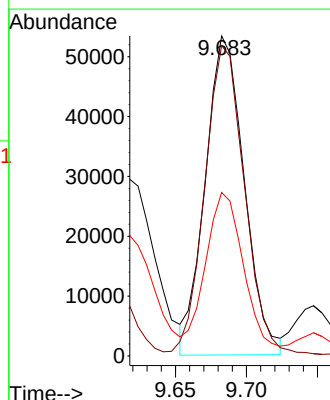
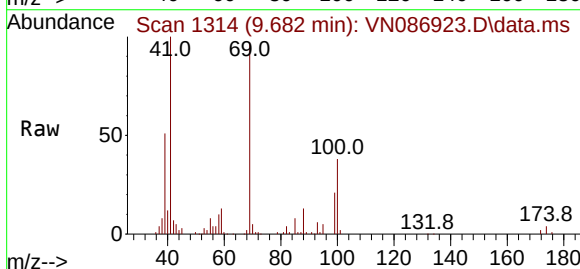
RT: 9.682 min Scan# 1314

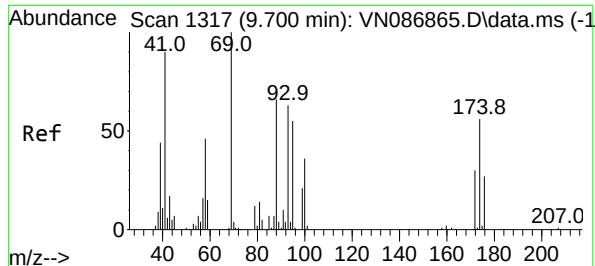
Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Tgt Ion:	41	Resp:	101839
Ion Ratio	Lower	Upper	
41	100		
69	100.5	74.6	112.0
39	51.5	40.2	60.4





#49

1,4-Dioxane

Concen: 873.782 ug/l

RT: 9.700 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MSD

Tgt Ion: 88 Resp: 40909

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

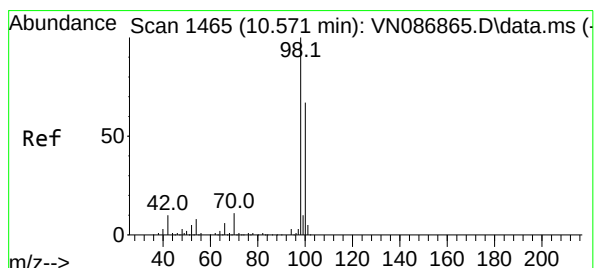
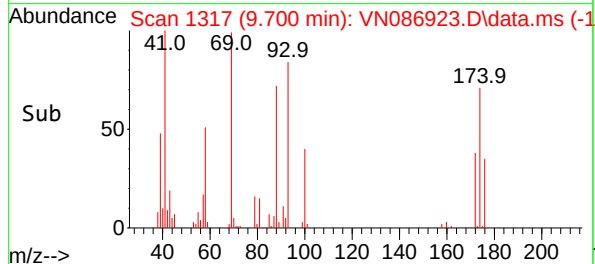
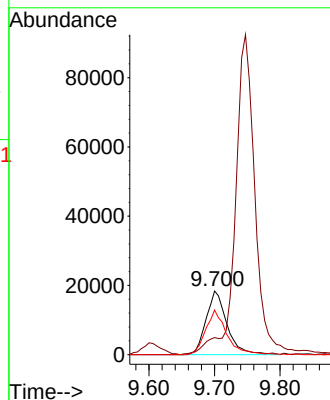
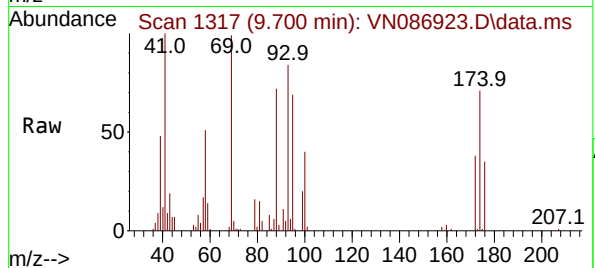
58 71.1 57.7 86.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#50

Toluene-d8

Concen: 54.791 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.006 min

Lab File: VN086923.D

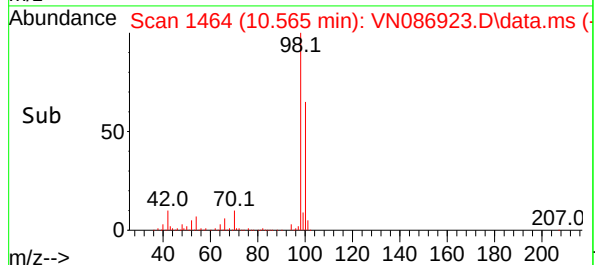
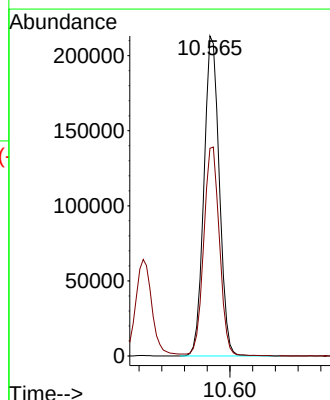
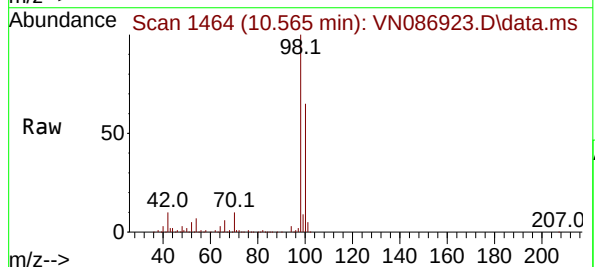
Acq: 10 Jun 2025 13:12

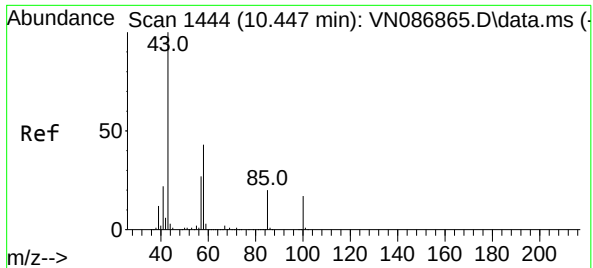
Tgt Ion: 98 Resp: 398352

Ion Ratio Lower Upper

98 100

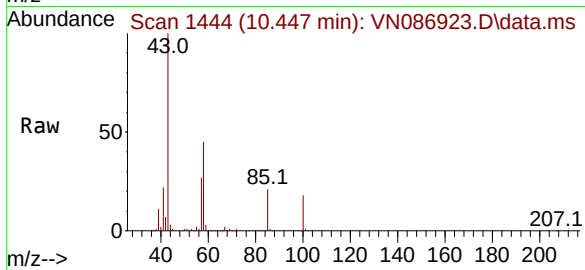
100 67.1 53.4 80.0





#51
4-Methyl-2-Pentanone
Concen: 208.746 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

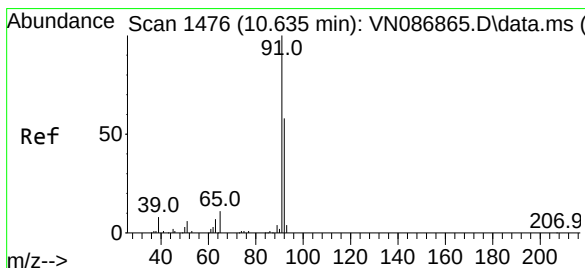
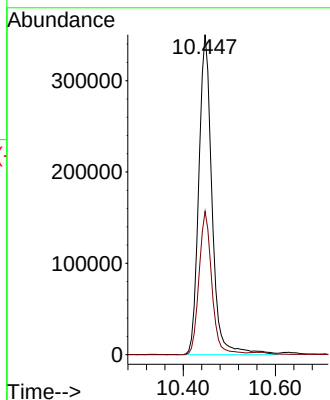
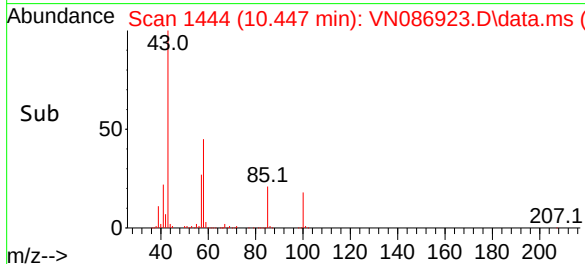
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



Tgt Ion: 43 Resp: 70265
Ion Ratio Lower Upper
43 100
58 43.3 34.2 51.4

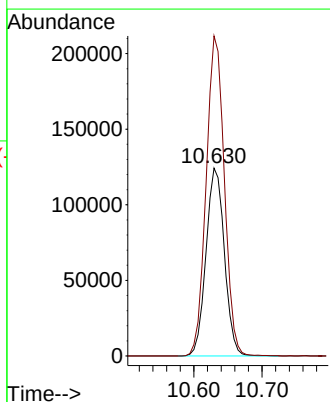
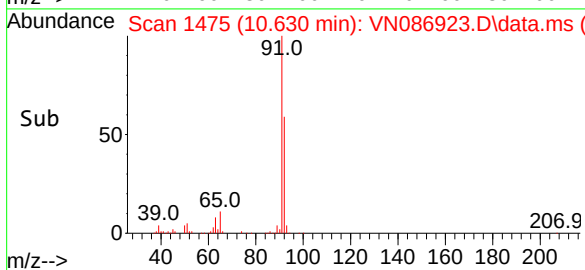
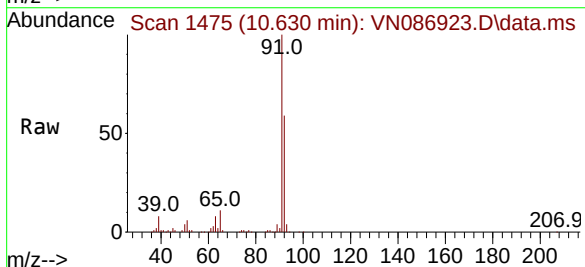
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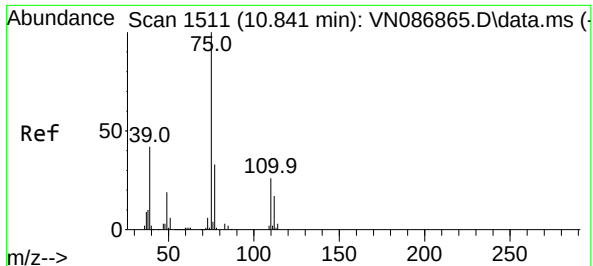
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#52
Toluene
Concen: 42.608 ug/l
RT: 10.630 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

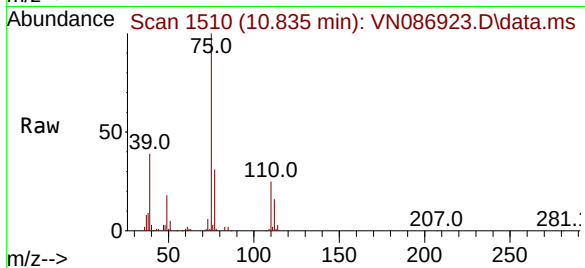
Tgt Ion: 92 Resp: 233021
Ion Ratio Lower Upper
92 100
91 168.9 136.5 204.7





#53
t-1,3-Dichloropropene
Concen: 43.917 ug/l
RT: 10.835 min Scan# 1511
Delta R.T. -0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

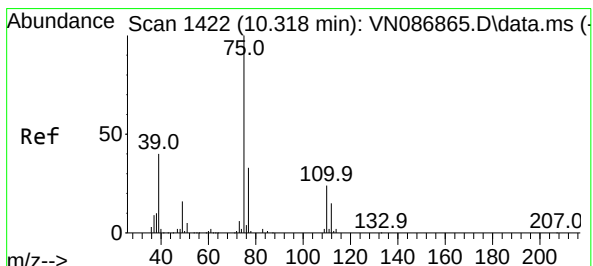
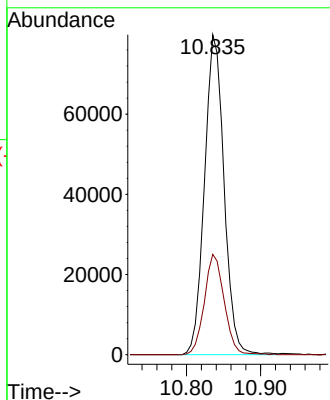
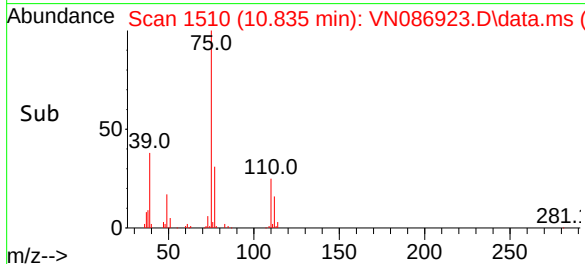
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



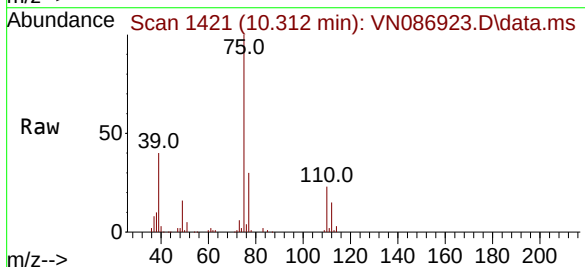
Tgt Ion: 75 Resp: 146110
Ion Ratio Lower Upper
75 100
77 31.4 26.4 39.6

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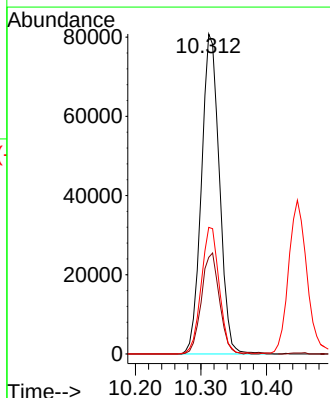
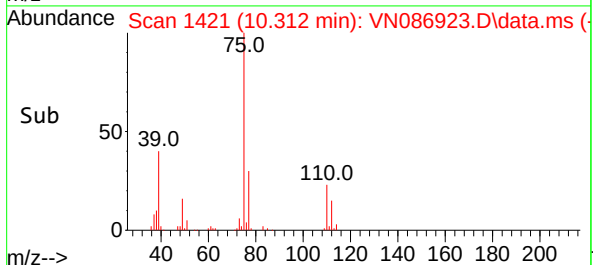
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

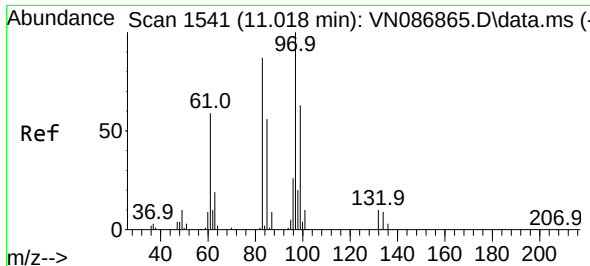


#54
cis-1,3-Dichloropropene
Concen: 43.329 ug/l
RT: 10.312 min Scan# 1421
Delta R.T. -0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12



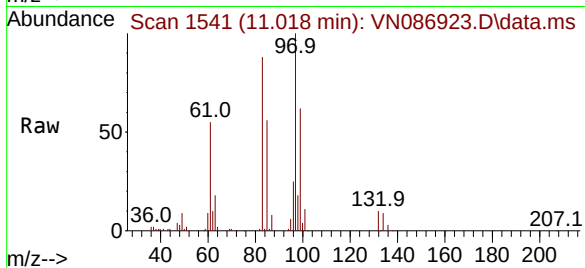
Tgt Ion: 75 Resp: 154243
Ion Ratio Lower Upper
75 100
77 30.2 26.2 39.4
39 39.6 32.3 48.5





#55
1,1,2-Trichloroethane
Concen: 44.495 ug/l
RT: 11.018 min Scan# 1541
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

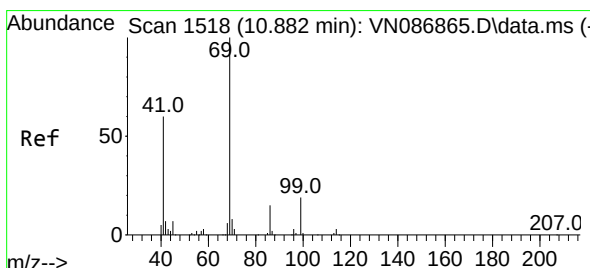
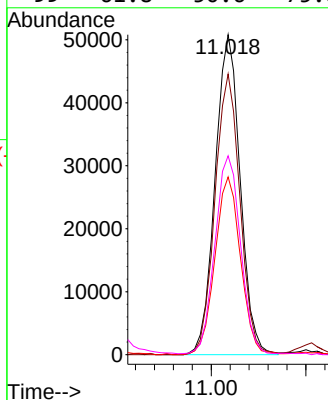
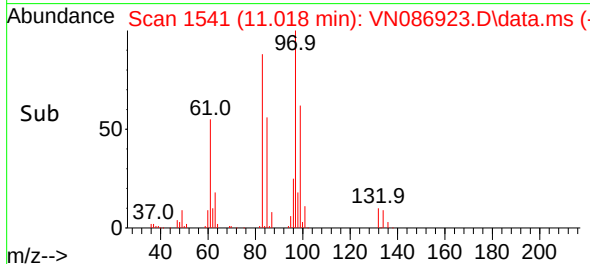
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



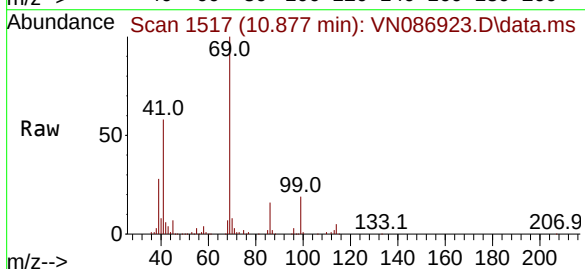
Tgt Ion: 97 Resp: 9363
Ion Ratio Lower Upper
97 100
83 87.7 69.7 104.5
85 55.5 45.1 67.7
99 61.8 50.6 75.8

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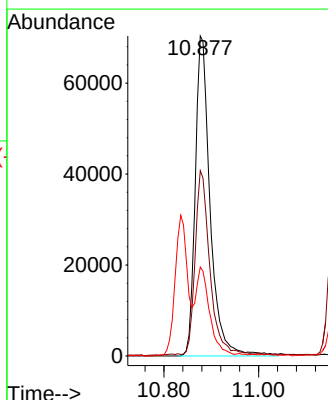
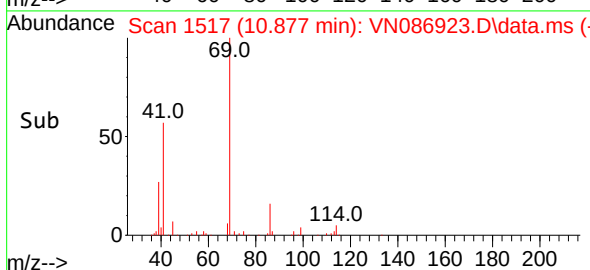
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

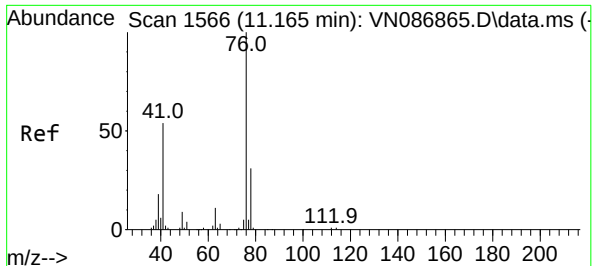


#56
Ethyl methacrylate
Concen: 45.905 ug/l
RT: 10.877 min Scan# 1517
Delta R.T. -0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12



Tgt Ion: 69 Resp: 153861
Ion Ratio Lower Upper
69 100
41 56.1 47.2 70.8
39 25.1 23.0 34.6





#57

1,3-Dichloropropane

Concen: 42.673 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MSD

Tgt Ion: 76 Resp: 15577

Ion Ratio Lower Upper

76 100

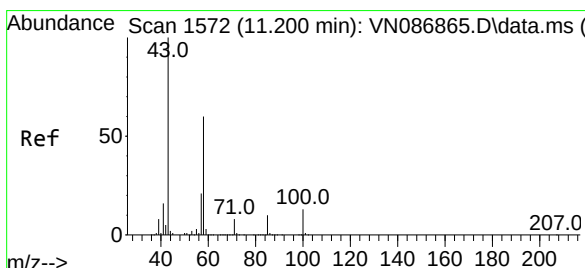
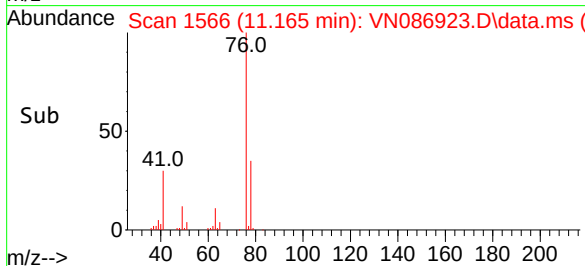
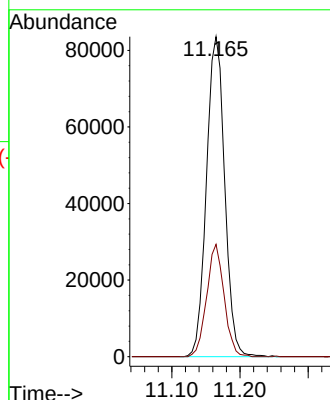
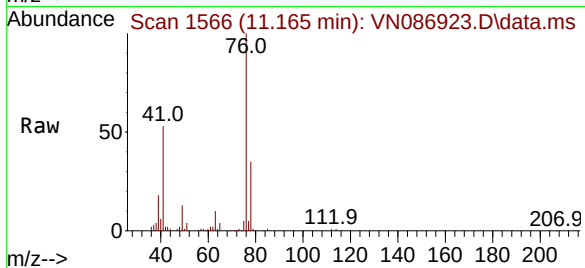
78 33.5 25.3 37.9

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Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#59

2-Hexanone

Concen: 209.941 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. -0.000 min

Lab File: VN086923.D

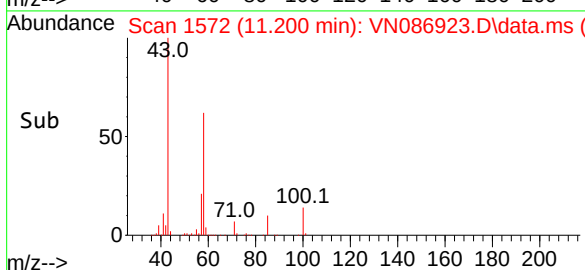
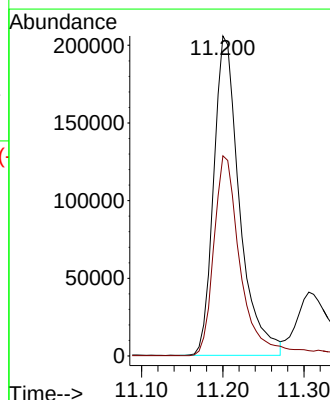
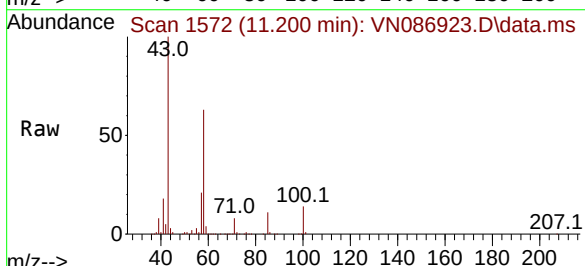
Acq: 10 Jun 2025 13:12

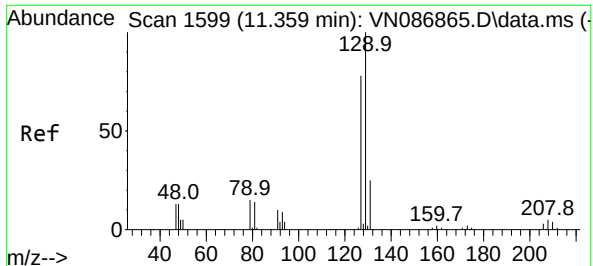
Tgt Ion: 43 Resp: 455196

Ion Ratio Lower Upper

43 100

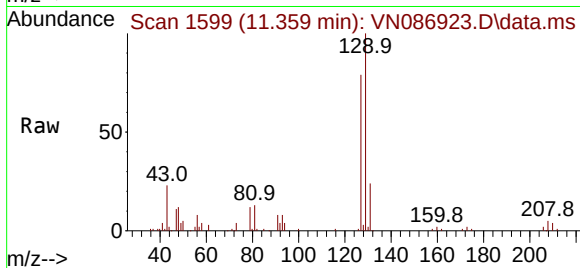
58 64.6 30.4 91.3





#60
Dibromochloromethane
Concen: 45.420 ug/l
RT: 11.359 min Scan# 1599
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

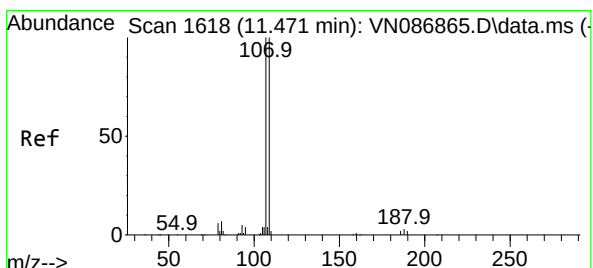
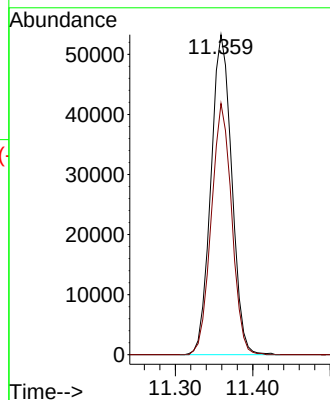
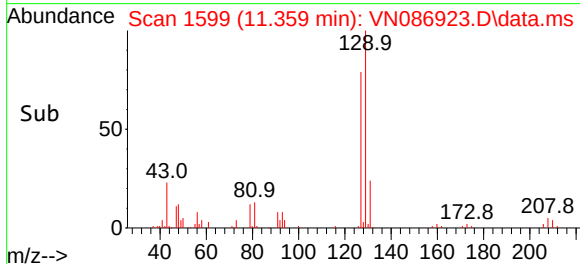
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



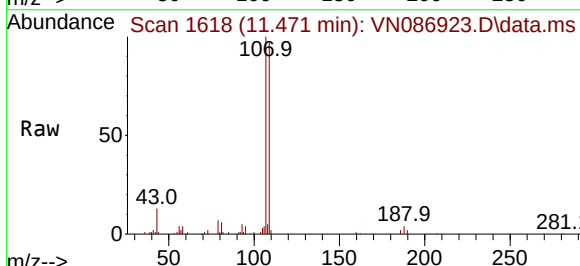
Tgt Ion:129 Resp: 9958
Ion Ratio Lower Upper
129 100
127 76.6 38.6 115.8

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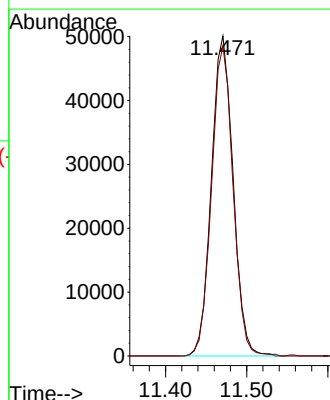
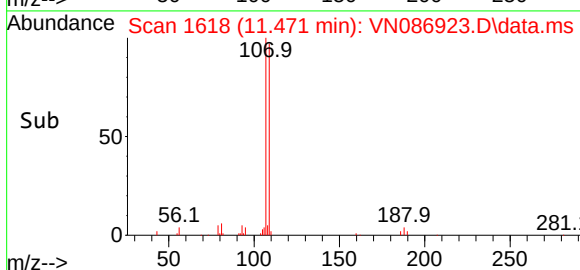
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

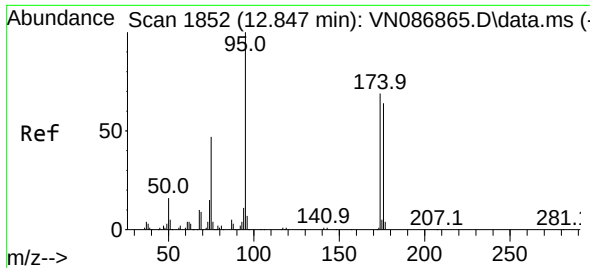


#61
1,2-Dibromoethane
Concen: 43.108 ug/l
RT: 11.471 min Scan# 1618
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12



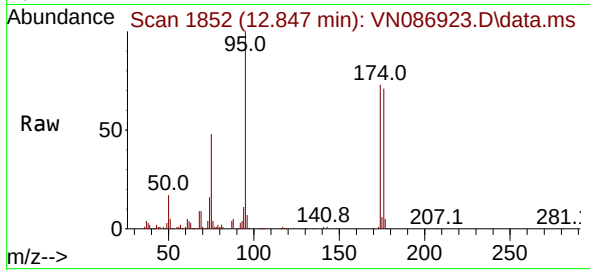
Tgt Ion:107 Resp: 92981
Ion Ratio Lower Upper
107 100
109 96.1 76.3 114.5





#62
4-Bromofluorobenzene
Concen: 55.271 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

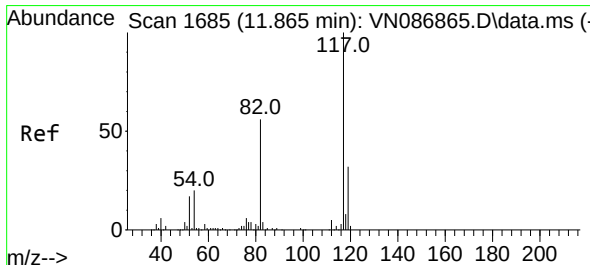
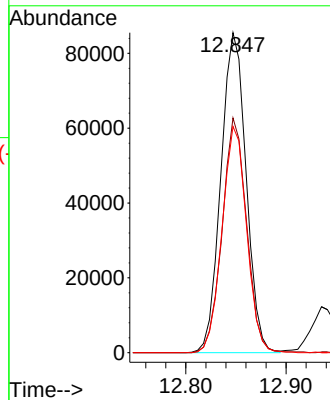
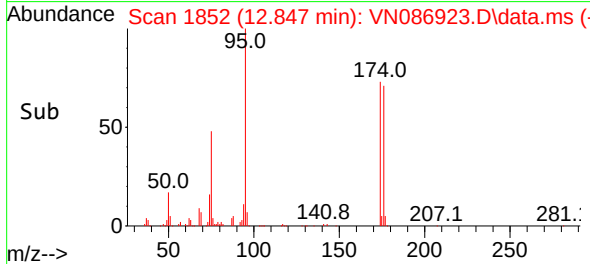
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



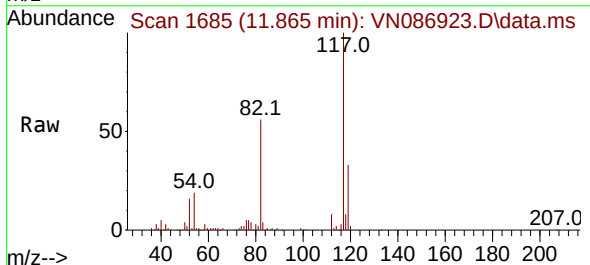
Tgt Ion: 95 Resp: 149297
Ion Ratio Lower Upper
95 100
174 70.9 0.0 141.8
176 69.0 0.0 132.6

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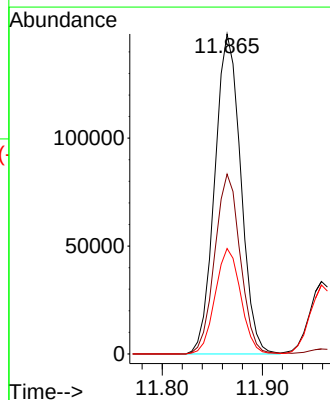
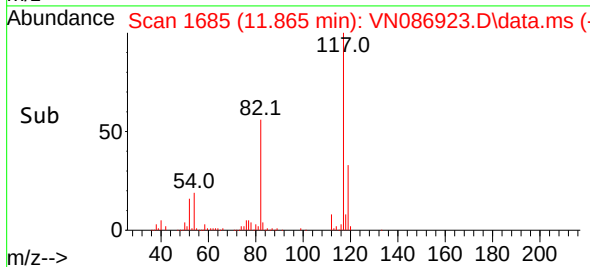
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

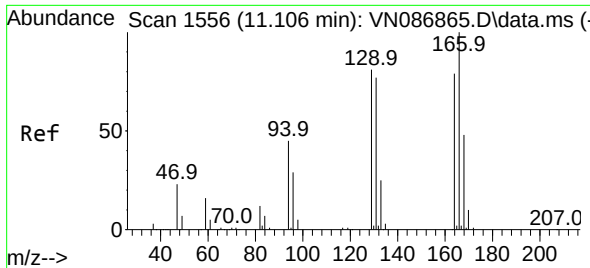


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12



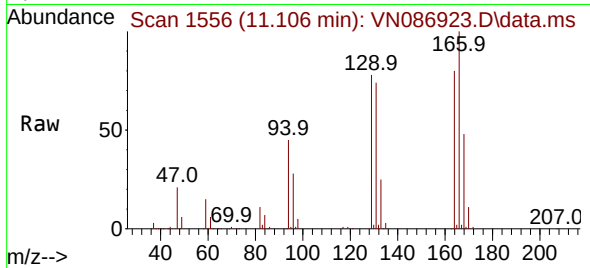
Tgt Ion:117 Resp: 266637
Ion Ratio Lower Upper
117 100
82 56.2 44.6 67.0
119 32.9 25.5 38.3





#64
Tetrachloroethene
Concen: 66.034 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

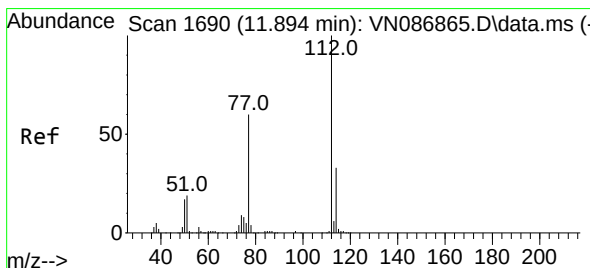
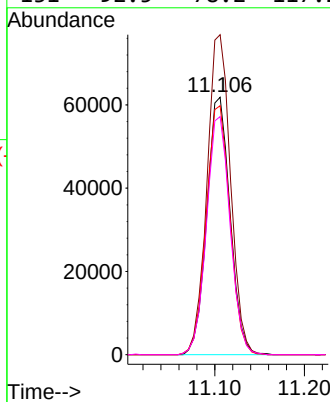
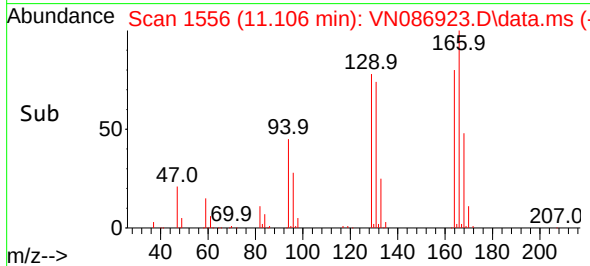
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



Tgt Ion:164 Resp: 111429
Ion Ratio Lower Upper
164 100
166 124.3 101.8 152.8
129 96.7 83.0 124.4
131 92.5 78.2 117.2

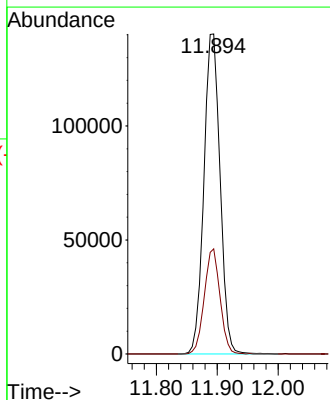
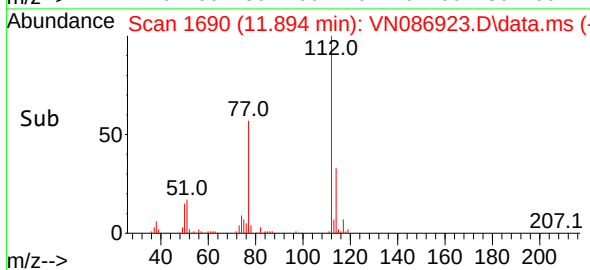
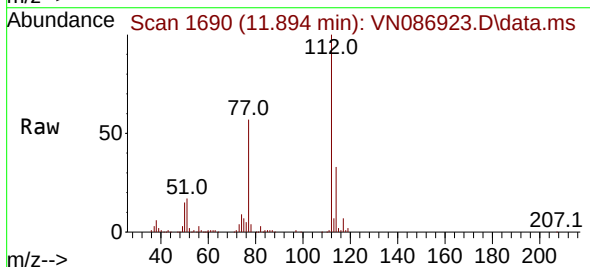
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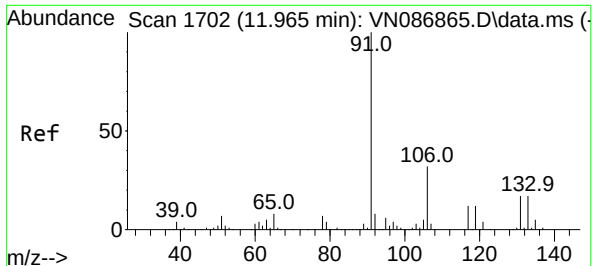
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#65
Chlorobenzene
Concen: 44.144 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

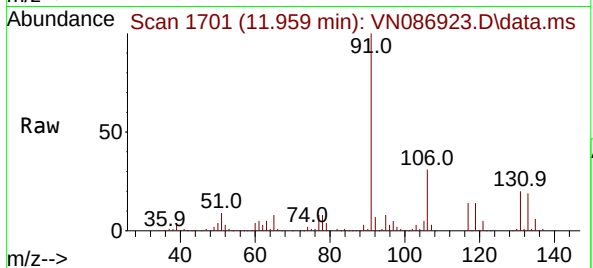
Tgt Ion:112 Resp: 259599
Ion Ratio Lower Upper
112 100
114 32.9 26.2 39.2





#66
1,1,1,2-Tetrachloroethane
Concen: 44.799 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

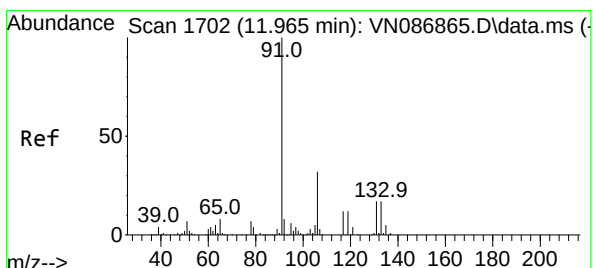
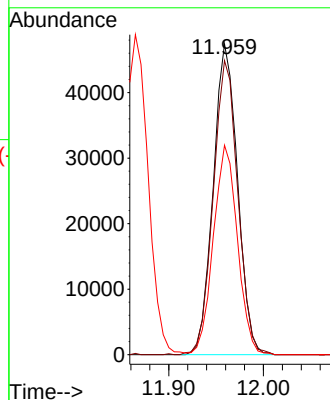
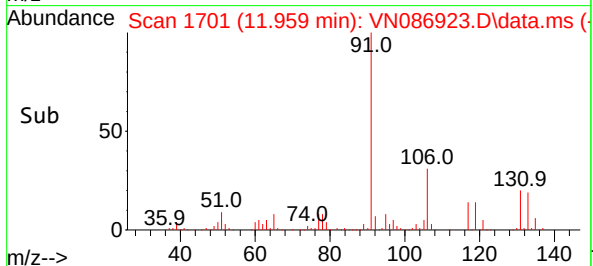
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



Tgt Ion:131 Resp: 84680
Ion Ratio Lower Upper
131 100
133 95.8 48.3 144.8
119 66.9 34.0 101.8

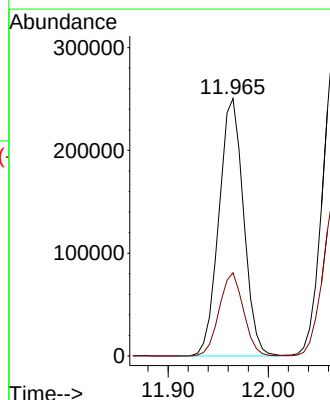
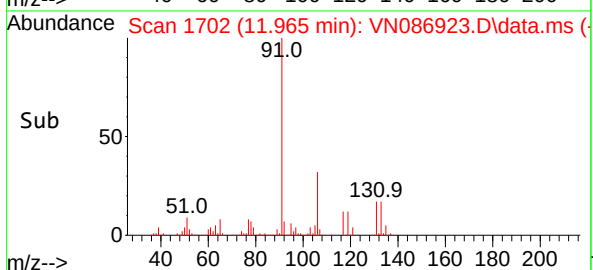
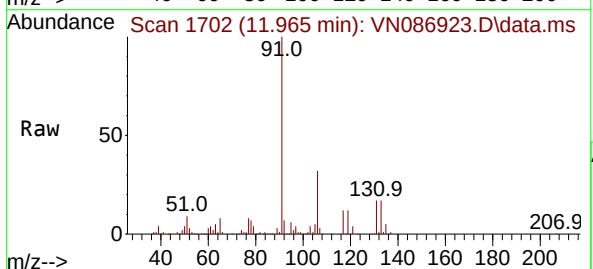
Manual Integrations
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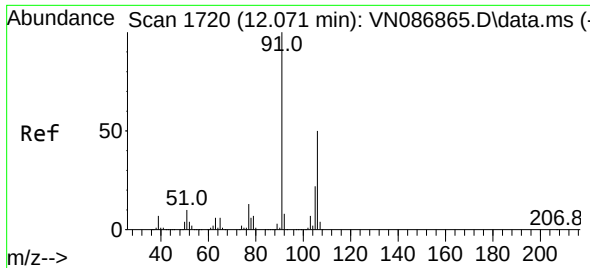
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#67
Ethyl Benzene
Concen: 42.226 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

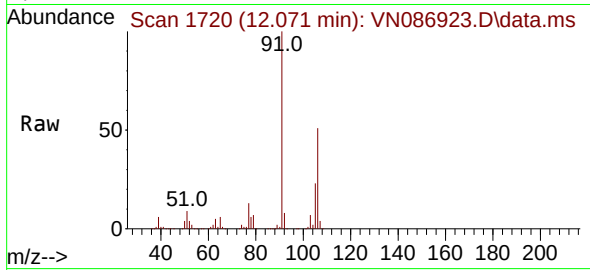
Tgt Ion: 91 Resp: 427727
Ion Ratio Lower Upper
91 100
106 32.3 25.4 38.2





#68
m/p-Xylenes
Concen: 86.123 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

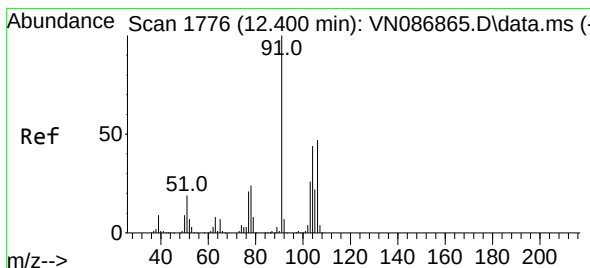
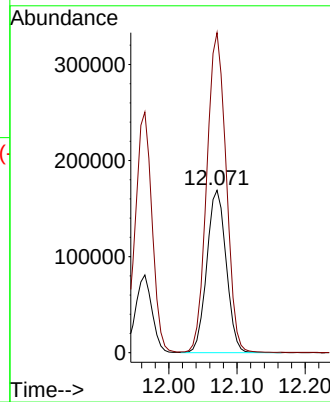
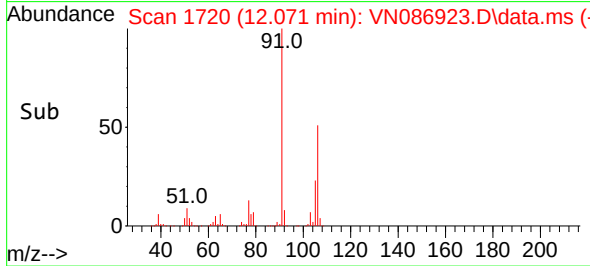
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



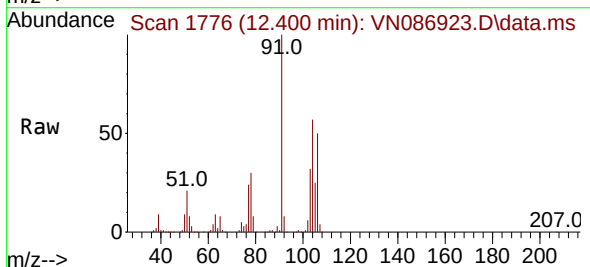
Tgt Ion:106 Resp: 333950
Ion Ratio Lower Upper
106 100
91 196.5 159.4 239.0

Manual Integrations
APPROVED

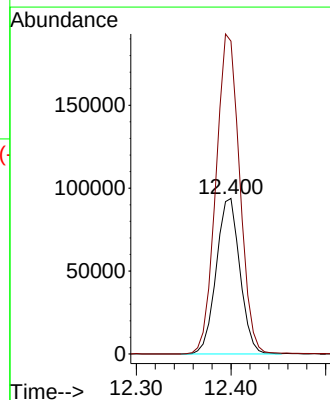
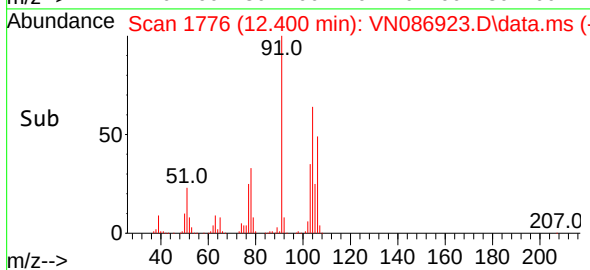
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

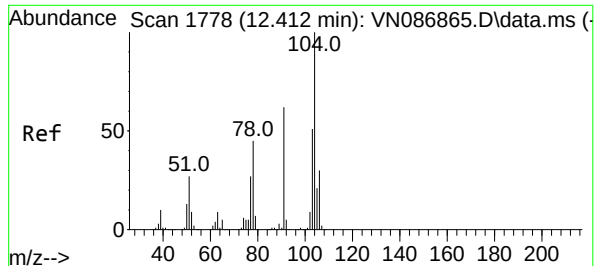


#69
o-Xylene
Concen: 43.848 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12



Tgt Ion:106 Resp: 162838
Ion Ratio Lower Upper
106 100
91 207.3 106.1 318.1





#70

Styrene

Concen: 44.384 ug/l

RT: 12.412 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

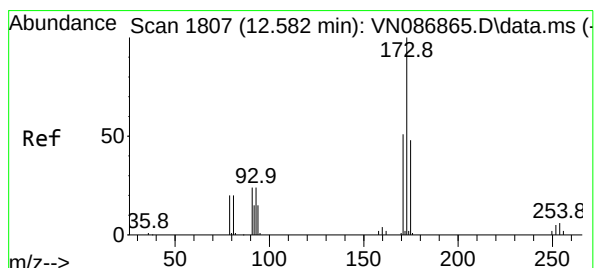
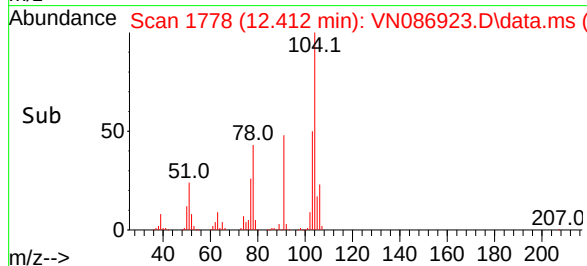
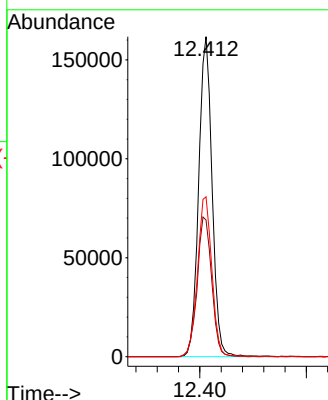
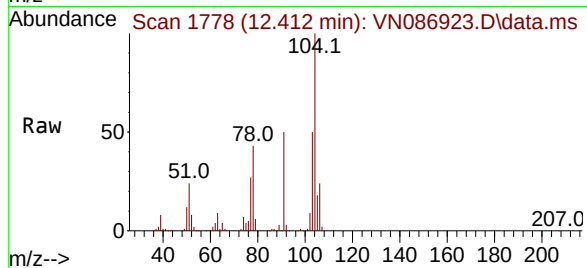
Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MSD

Tgt Ion:104	Resp:	28205
Ion Ratio	Lower	Upper
104	100	
78	47.4	38.5 57.7
103	53.7	43.1 64.7

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

#71

Bromoform

Concen: 46.983 ug/l

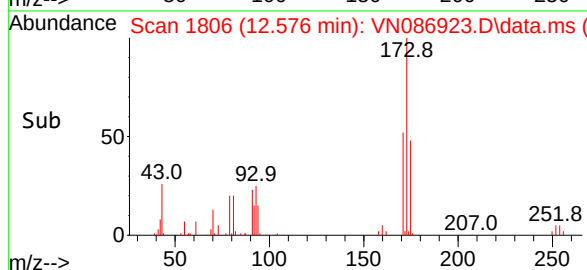
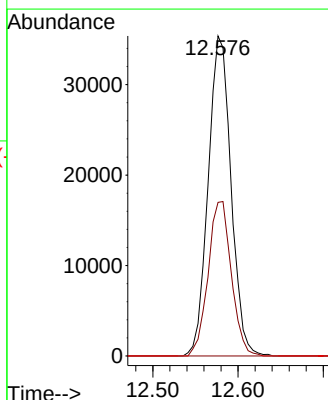
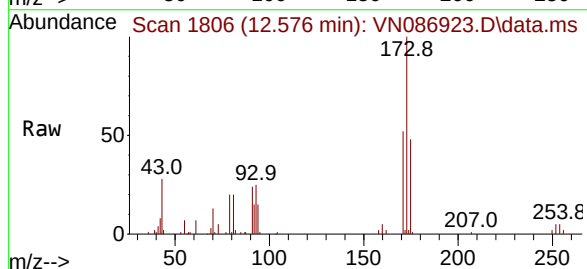
RT: 12.576 min Scan# 1806

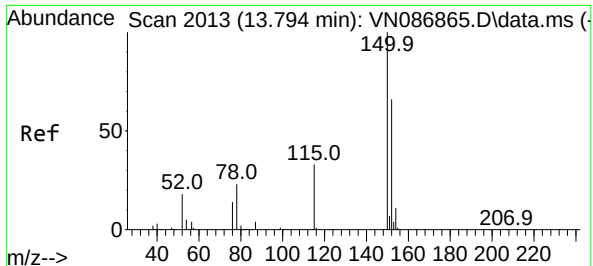
Delta R.T. -0.006 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

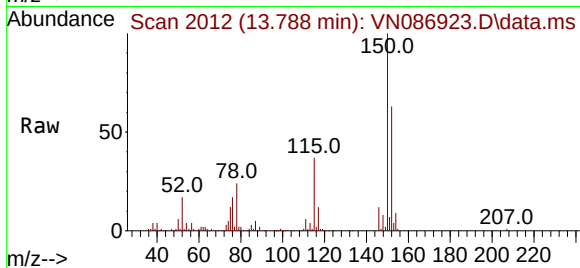
Tgt Ion:173	Resp:	65807
Ion Ratio	Lower	Upper
173	100	
175	49.1	24.1 72.4
254	0.0	0.0 0.0





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2013
Delta R.T. -0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

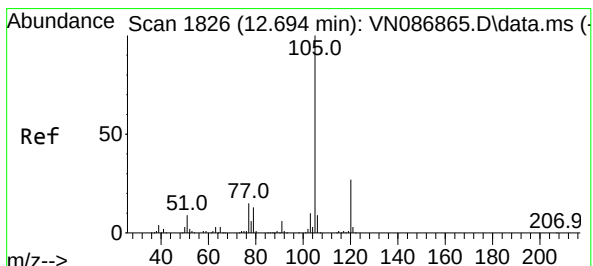
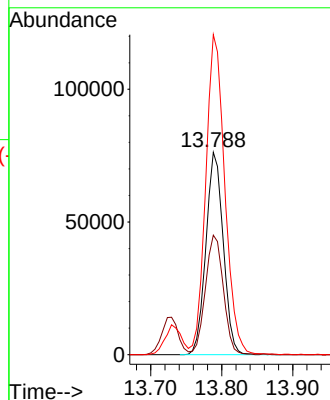
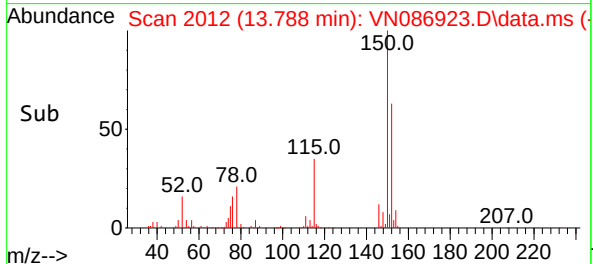
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



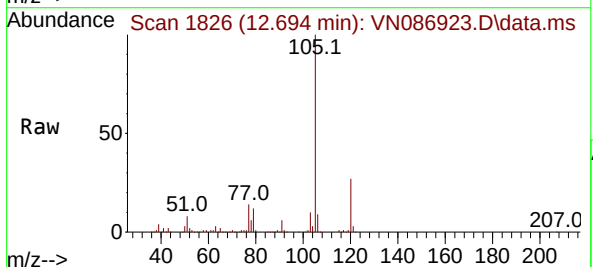
Tgt Ion:152 Resp: 12987
Ion Ratio Lower Upper
152 100
115 61.0 30.1 90.5
150 173.5 0.0 345.0

Manual Integrations
APPROVED

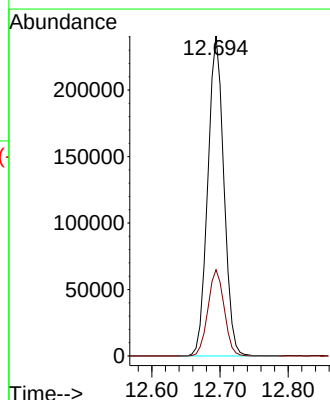
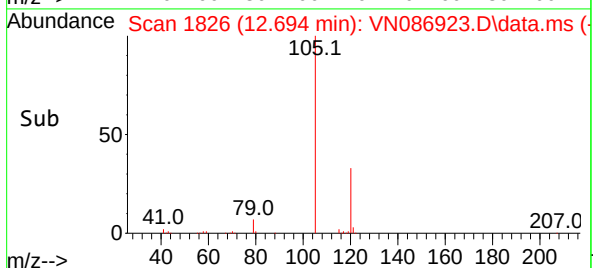
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

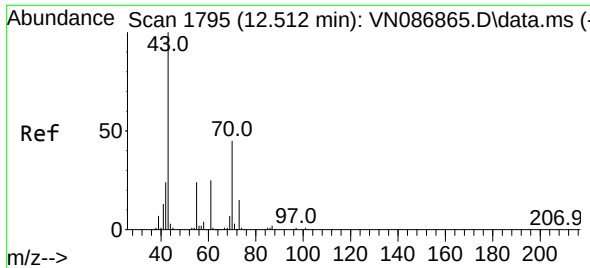


#73
Isopropylbenzene
Concen: 41.733 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12



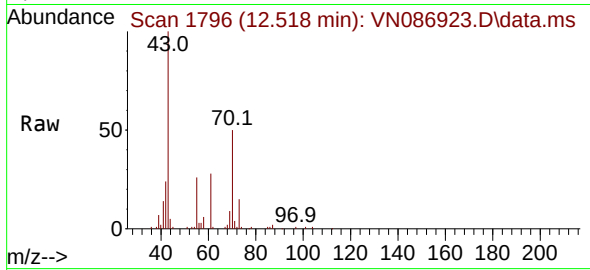
Tgt Ion:105 Resp: 394852
Ion Ratio Lower Upper
105 100
120 27.1 13.5 40.4





#74
N-amy1 acetate
Concen: 43.473 ug/l
RT: 12.518 min Scan# 1795
Delta R.T. 0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

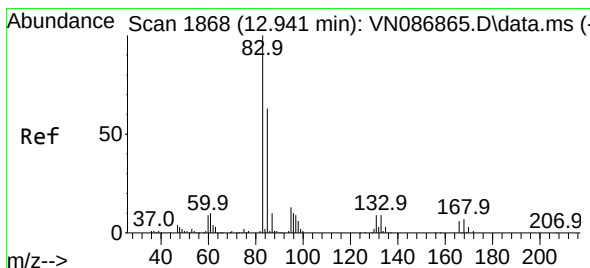
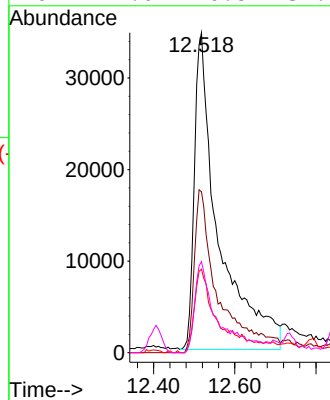
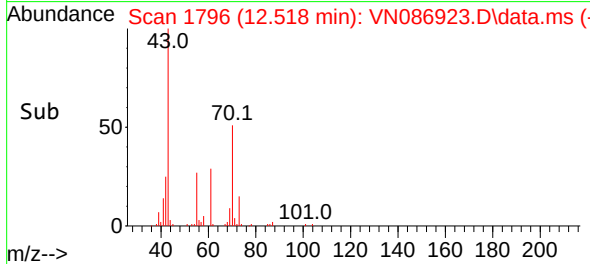
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



Tgt Ion: 43 Resp: 143729
Ion Ratio Lower Upper
43 100
70 50.9 37.6 56.4
55 25.6 19.0 28.6
61 27.0 20.8 31.2

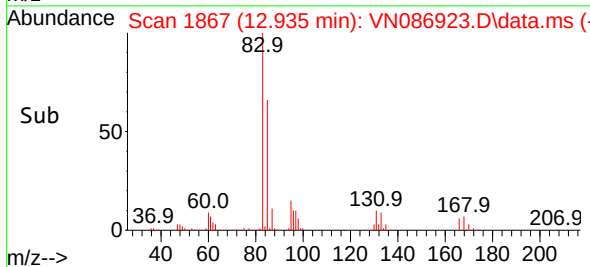
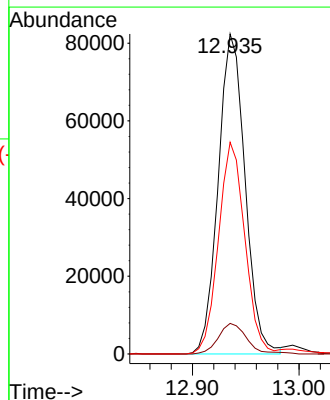
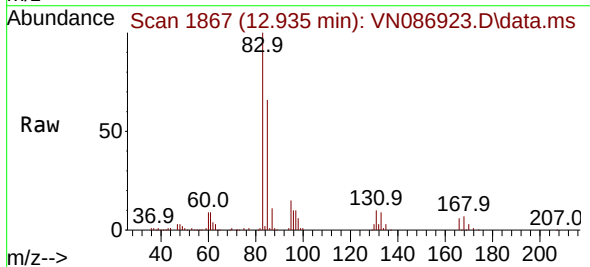
Manual Integrations
APPROVED

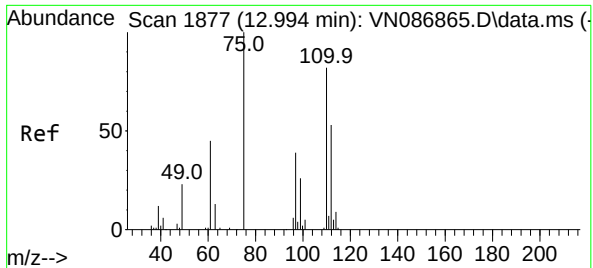
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#75
1,1,2,2-Tetrachloroethane
Concen: 44.965 ug/l
RT: 12.935 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

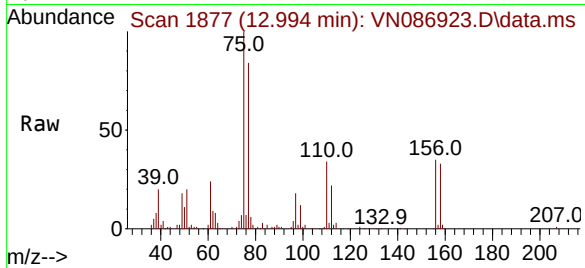
Tgt Ion: 83 Resp: 144127
Ion Ratio Lower Upper
83 100
131 10.1 4.9 14.7
85 64.9 32.0 96.0





#76
1,2,3-Trichloropropane
Concen: 38.345 ug/l m
RT: 12.994 min Scan# 1877
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

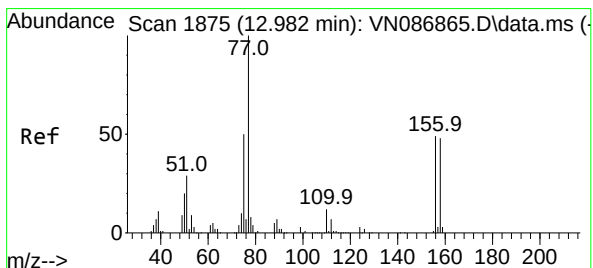
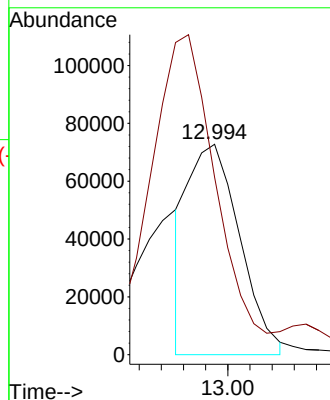
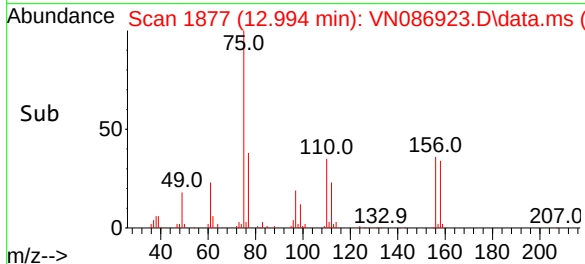
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



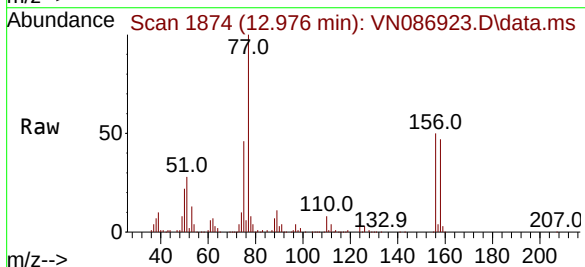
Tgt Ion: 75 Resp: 11837
Ion Ratio Lower Upper
75 100
77 193.2 79.3 237.9

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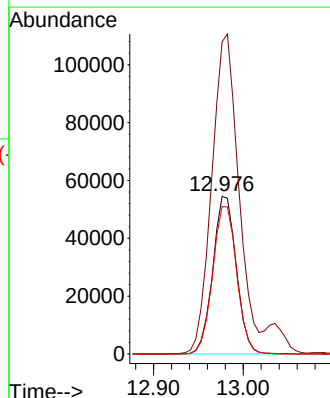
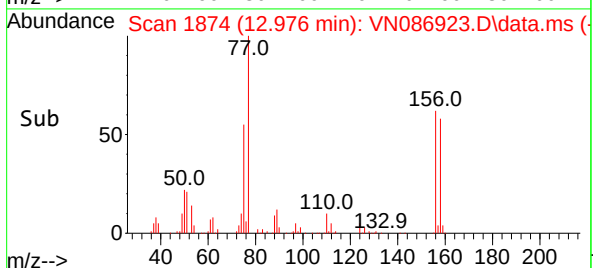
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

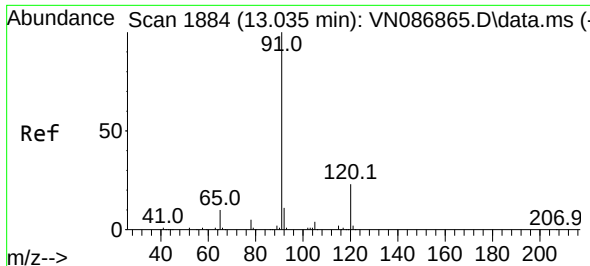


#77
Bromobenzene
Concen: 45.640 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. -0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12



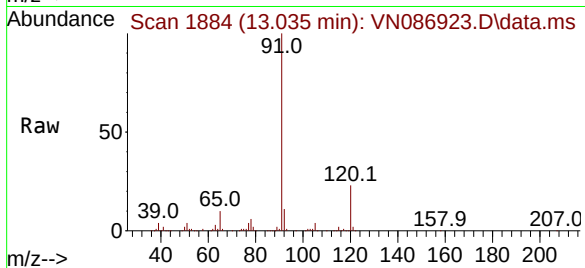
Tgt Ion:156 Resp: 99031
Ion Ratio Lower Upper
156 100
77 230.9 117.7 353.1
158 95.9 48.1 144.4





#78
n-propylbenzene
Concen: 40.377 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

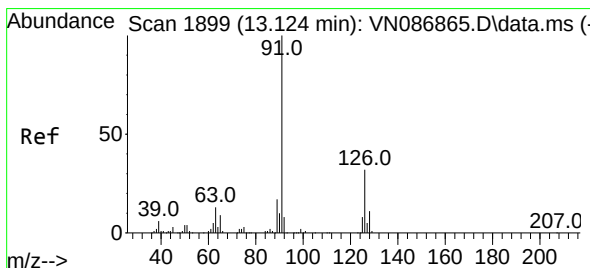
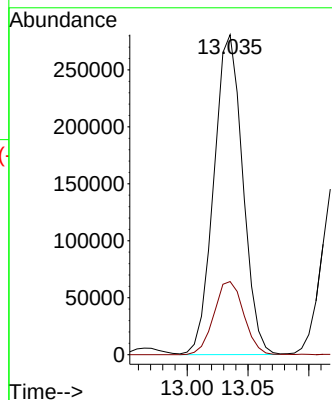
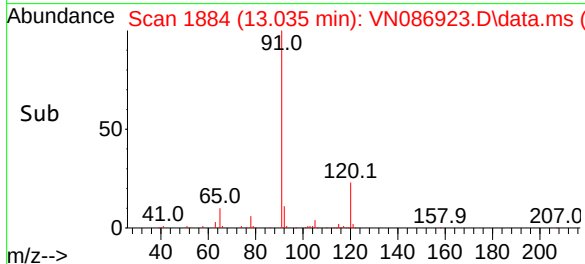
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



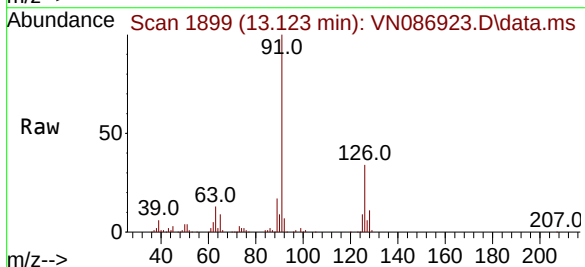
Tgt Ion: 91 Resp: 46425
Ion Ratio Lower Upper
91 100
120 23.6 11.4 34.2

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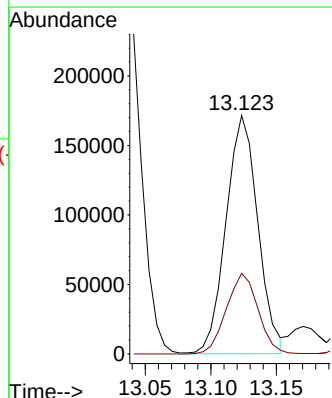
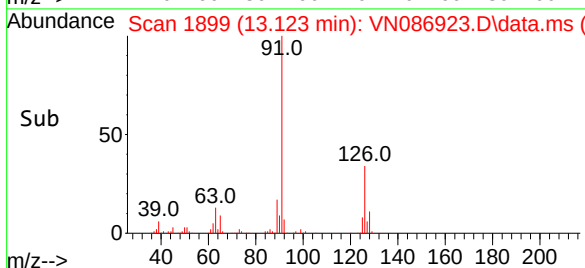
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

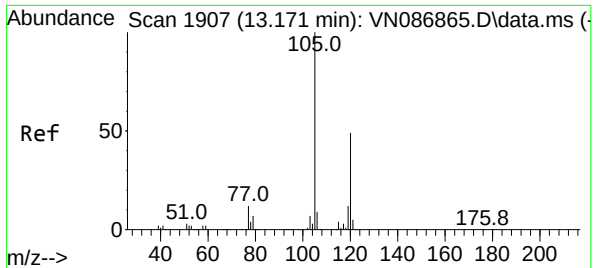


#79
2-Chlorotoluene
Concen: 42.017 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12



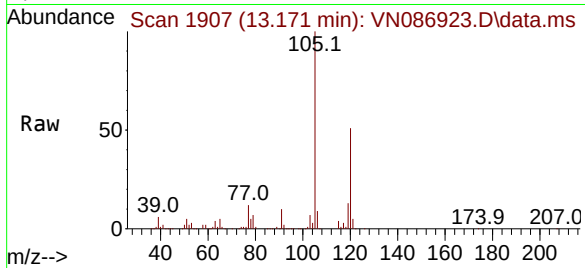
Tgt Ion: 91 Resp: 289730
Ion Ratio Lower Upper
91 100
126 33.6 16.2 48.5





#80
1,3,5-Trimethylbenzene
Concen: 41.111 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

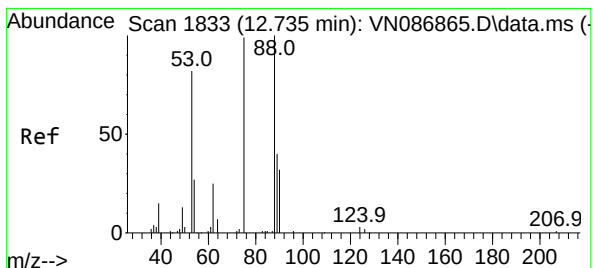
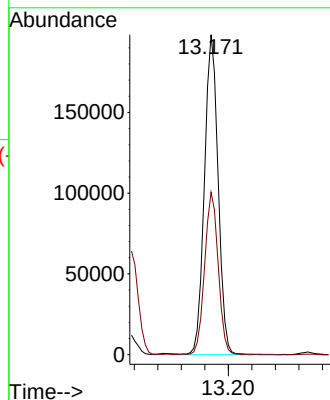
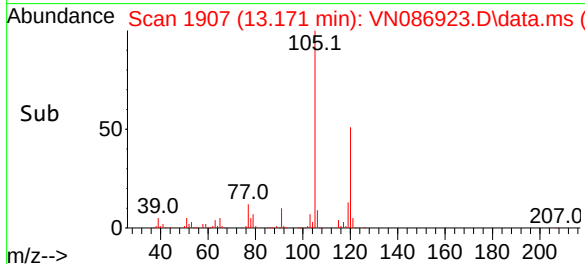
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



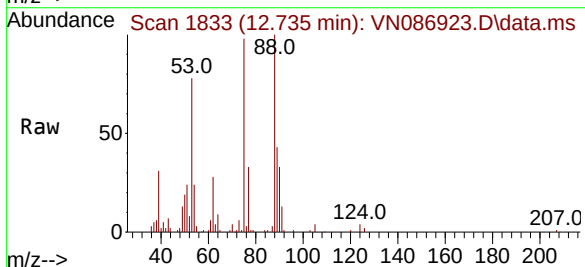
Tgt Ion:105 Resp: 32113
Ion Ratio Lower Upper
105 100
120 50.4 24.9 74.6

Manual Integrations
APPROVED

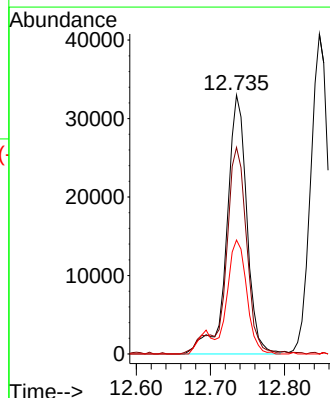
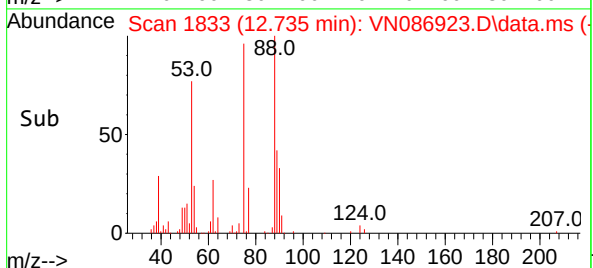
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

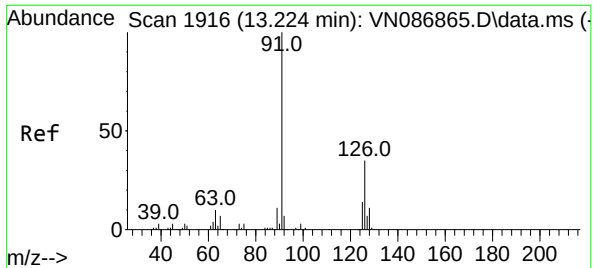


#81
trans-1,4-Dichloro-2-butene
Concen: 46.366 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12



Tgt Ion: 75 Resp: 62181
Ion Ratio Lower Upper
75 100
53 83.5 66.6 99.8
89 42.1 36.7 55.1





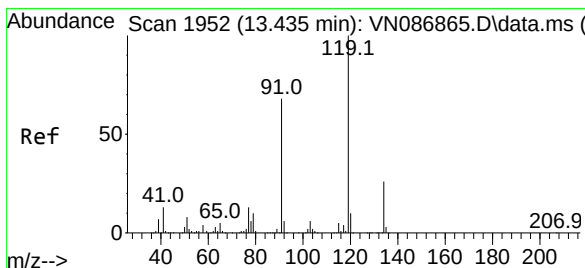
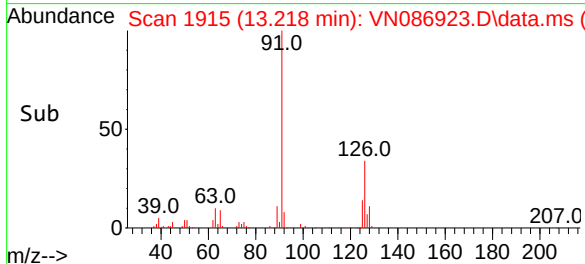
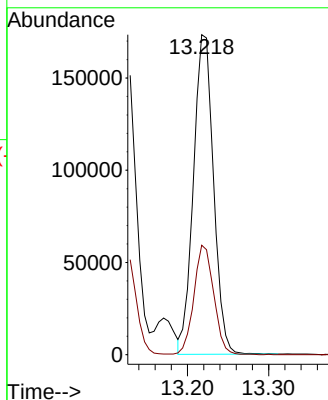
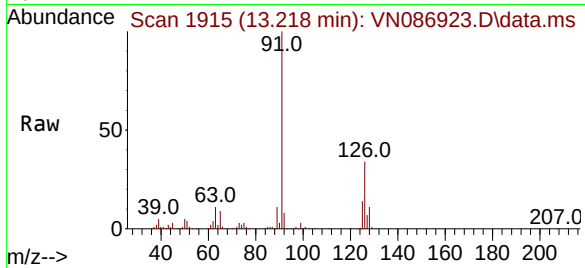
#82
4-Chlorotoluene
Concen: 42.756 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. -0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD

Tgt Ion: 91 Resp: 29831
Ion Ratio Lower Upper
91 100
126 33.9 16.7 50.1

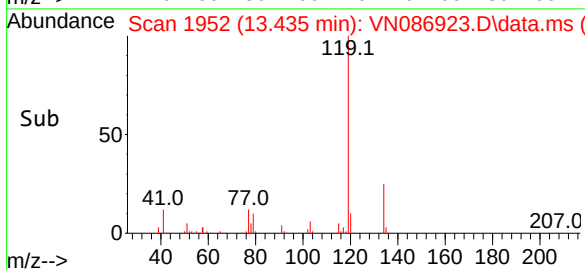
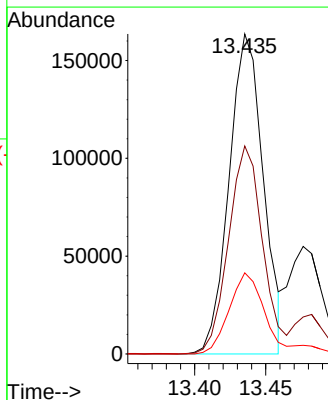
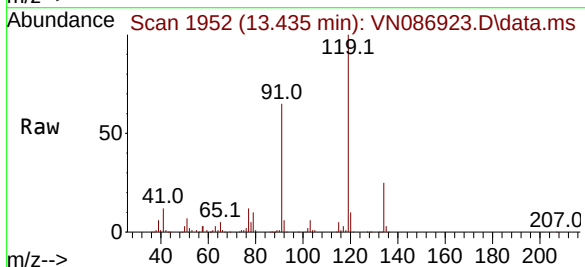
Manual Integrations
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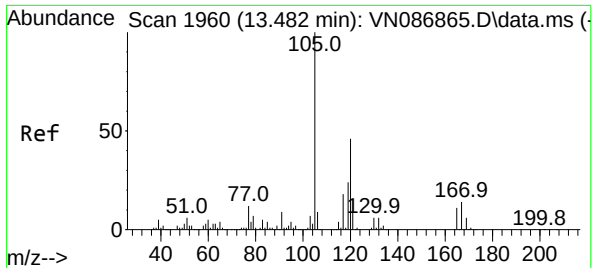
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



#83
tert-Butylbenzene
Concen: 38.263 ug/l
RT: 13.435 min Scan# 1952
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

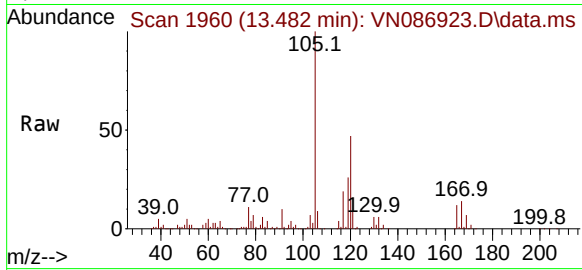
Tgt Ion:119 Resp: 273596
Ion Ratio Lower Upper
119 100
91 65.0 32.1 96.5
134 27.7 13.4 40.1





#84
1,2,4-Trimethylbenzene
Concen: 41.655 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. -0.000 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

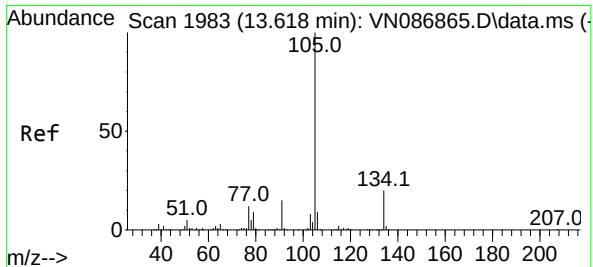
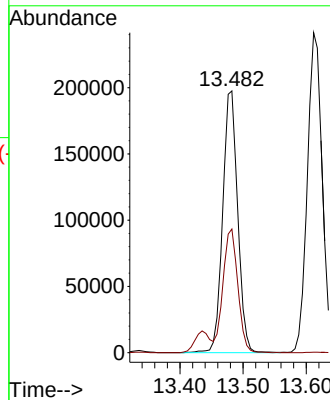
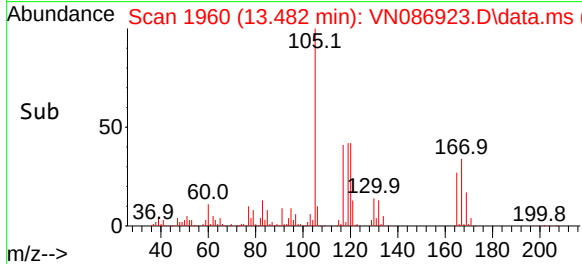
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



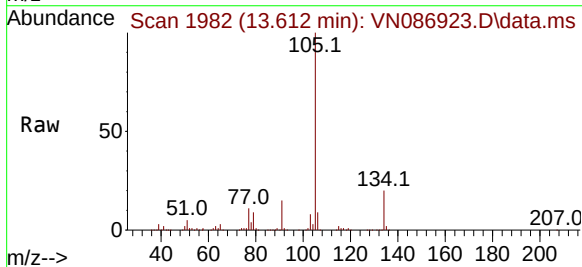
Tgt Ion:105 Resp: 326290
Ion Ratio Lower Upper
105 100
120 46.7 23.2 69.6

Manual Integrations
APPROVED

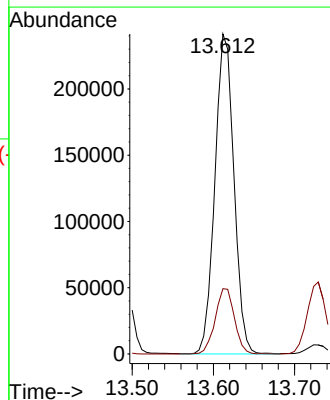
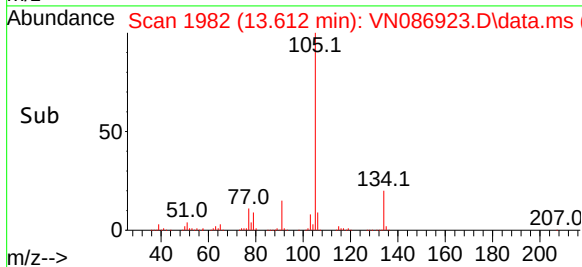
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

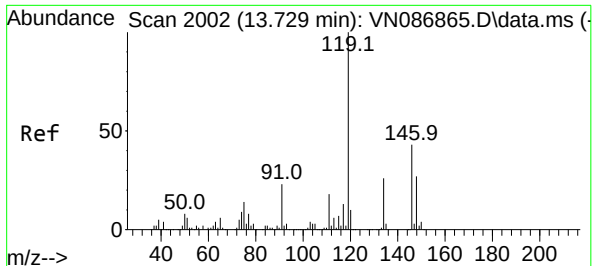


#85
sec-Butylbenzene
Concen: 37.979 ug/l
RT: 13.612 min Scan# 1982
Delta R.T. -0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12



Tgt Ion:105 Resp: 394374
Ion Ratio Lower Upper
105 100
134 20.6 10.0 30.0





#86

p-Isopropyltoluene

Concen: 38.742 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

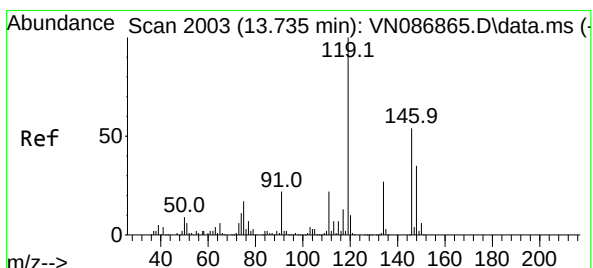
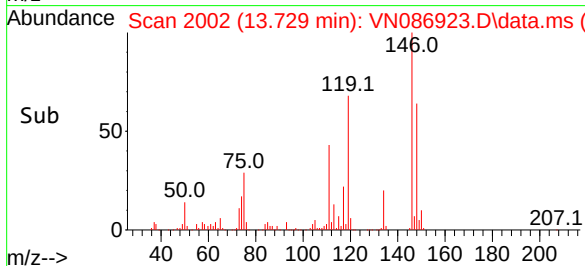
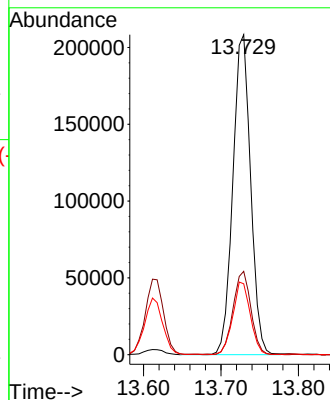
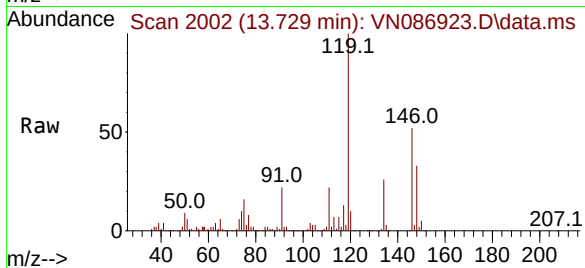
MW-11A-13.5-060525MSD

Tgt Ion:	119	Resp:	33255
Ion Ratio	Lower	Upper	
119	100		
134	26.3	13.5	40.4
91	22.3	11.5	34.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#87

1,3-Dichlorobenzene

Concen: 43.312 ug/l

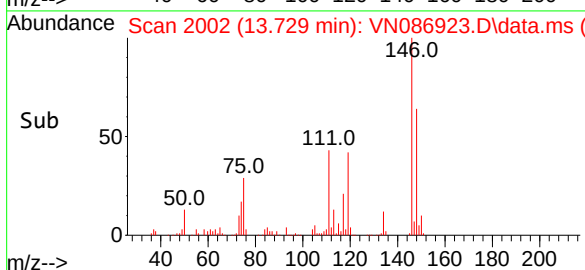
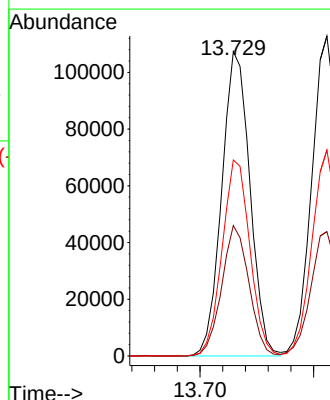
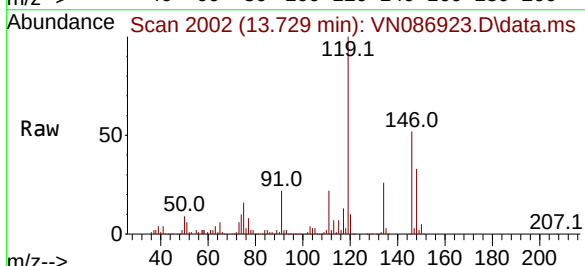
RT: 13.729 min Scan# 2002

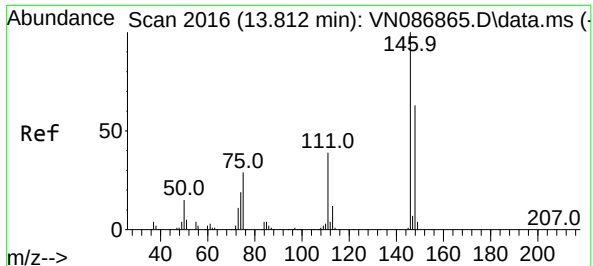
Delta R.T. -0.006 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Tgt Ion:	146	Resp:	184900
Ion Ratio	Lower	Upper	
146	100		
111	41.4	20.9	62.8
148	63.6	32.0	96.2





#88

1,4-Dichlorobenzene

Concen: 43.980 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

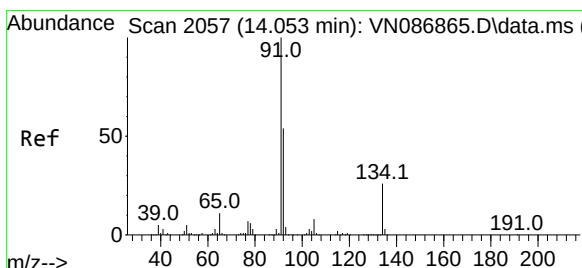
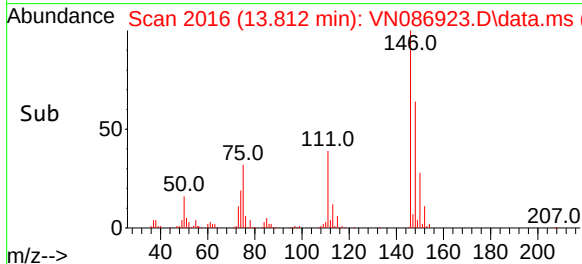
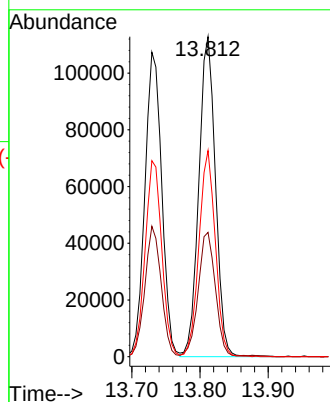
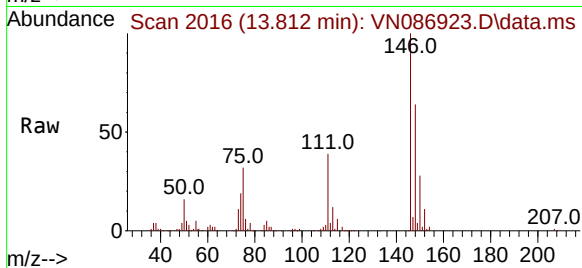
MW-11A-13.5-060525MSD

Tgt Ion:	146	Resp:	191420
Ion Ratio	Lower	Upper	
146	100		
111	39.4	19.9	59.7
148	63.3	31.8	95.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#89

n-Butylbenzene

Concen: 36.403 ug/l

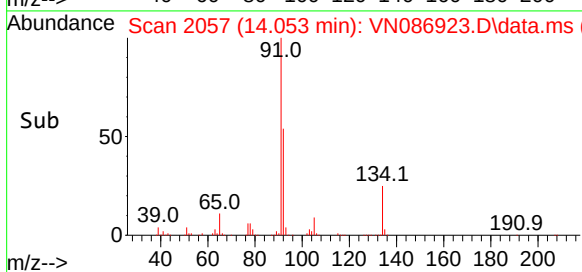
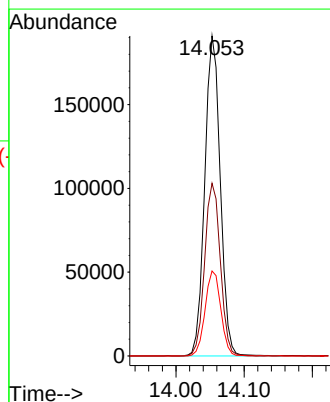
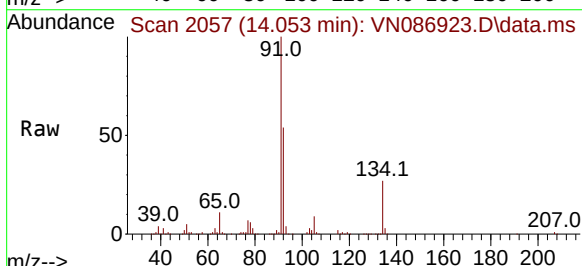
RT: 14.053 min Scan# 2057

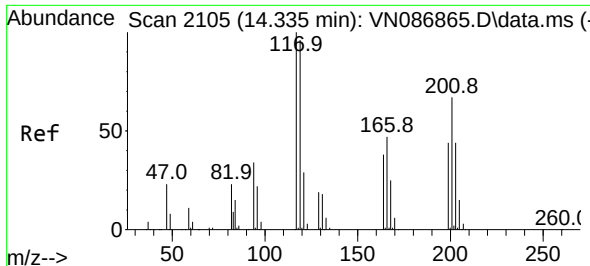
Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Tgt Ion:	91	Resp:	302661
Ion Ratio	Lower	Upper	
91	100		
92	54.5	27.5	82.4
134	26.8	13.0	39.0





#90

Hexachloroethane

Concen: 39.692 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MSD

Tgt Ion:117 Resp: 57752

Ion Ratio Lower Upper

117 100

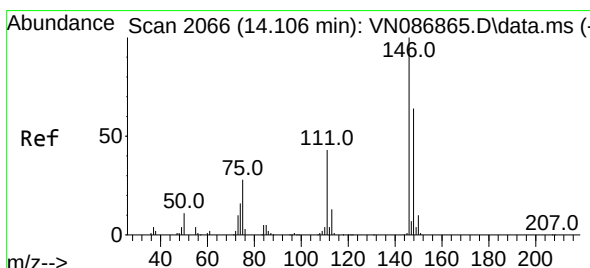
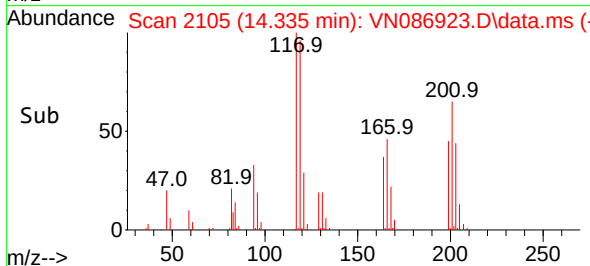
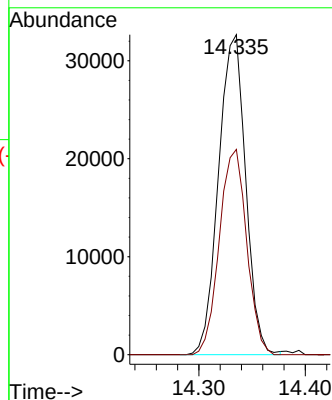
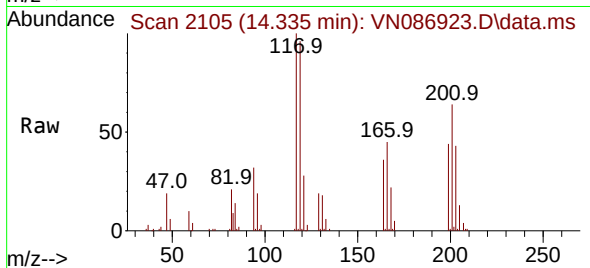
201 64.6 33.2 99.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#91

1,2-Dichlorobenzene

Concen: 43.302 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

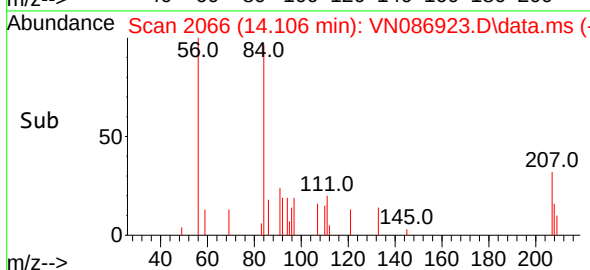
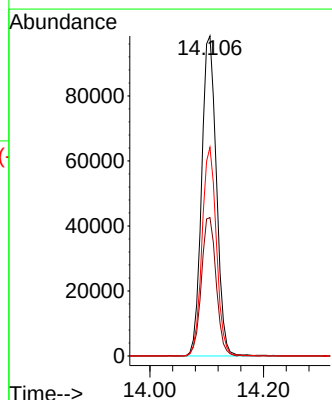
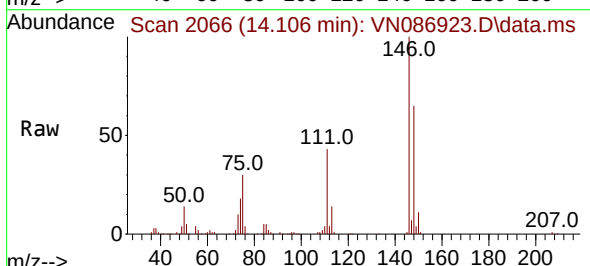
Tgt Ion:146 Resp: 177603

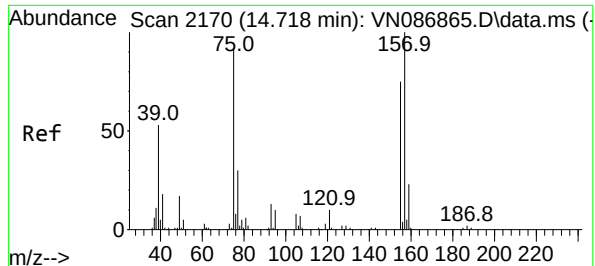
Ion Ratio Lower Upper

146 100

111 43.1 21.6 64.6

148 63.3 31.7 95.1





#92

1,2-Dibromo-3-Chloropropane

Concen: 40.715 ug/l

RT: 14.717 min Scan# 2170

Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

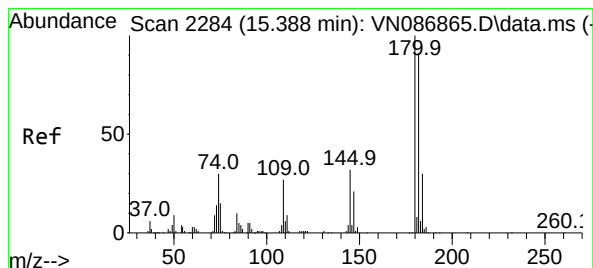
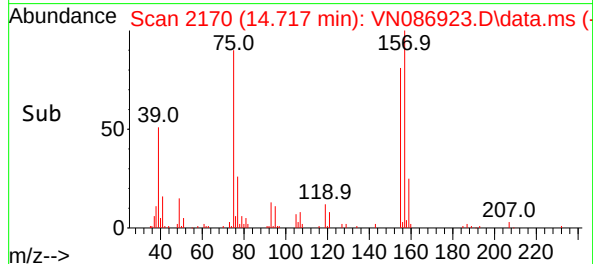
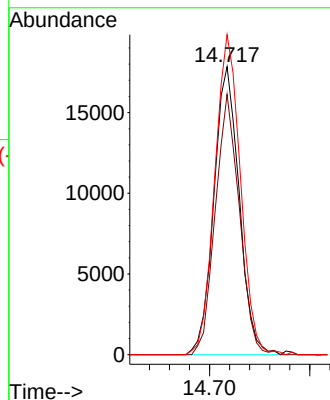
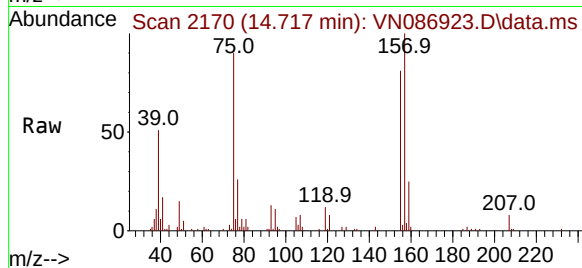
MW-11A-13.5-060525MSD

Tgt Ion:	75	Resp:	31210
Ion	Ratio	Lower	Upper
75	100		
155	85.9	41.1	123.4
157	112.8	52.7	158.1

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



#93

1,2,4-Trichlorobenzene

Concen: 37.609 ug/l

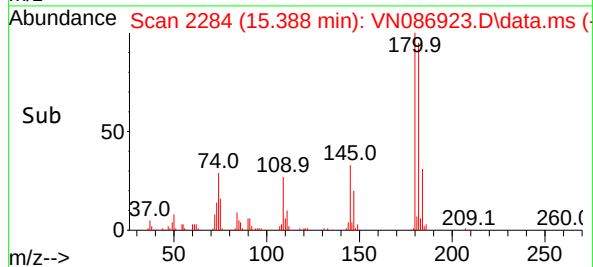
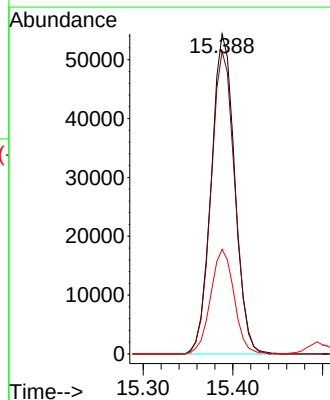
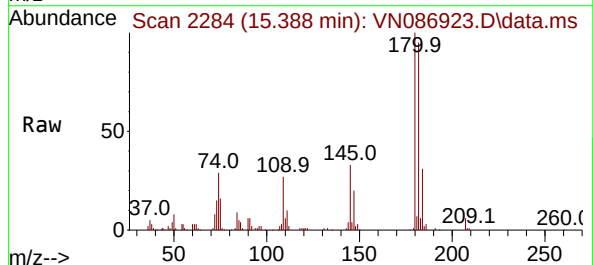
RT: 15.388 min Scan# 2284

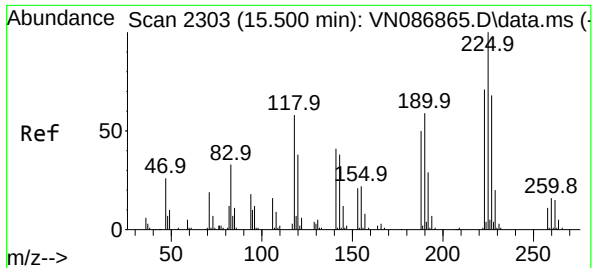
Delta R.T. -0.000 min

Lab File: VN086923.D

Acq: 10 Jun 2025 13:12

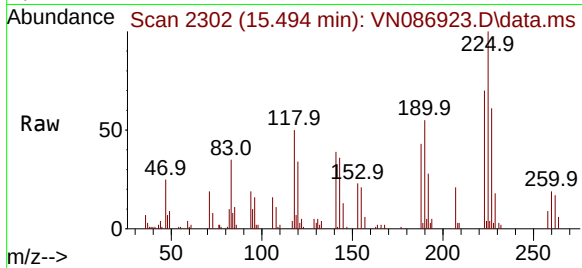
Tgt Ion:	180	Resp:	98501
Ion	Ratio	Lower	Upper
180	100		
182	96.0	46.9	140.7
145	32.7	16.0	47.9





#94
Hexachlorobutadiene
Concen: 29.629 ug/l
RT: 15.494 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12

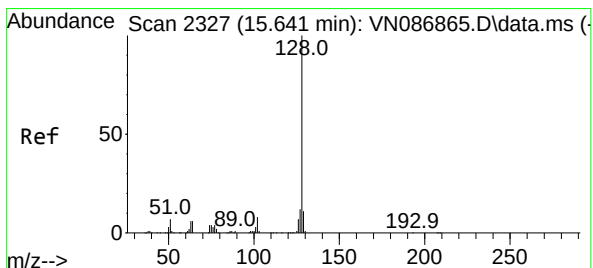
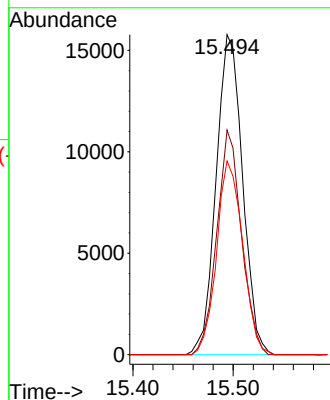
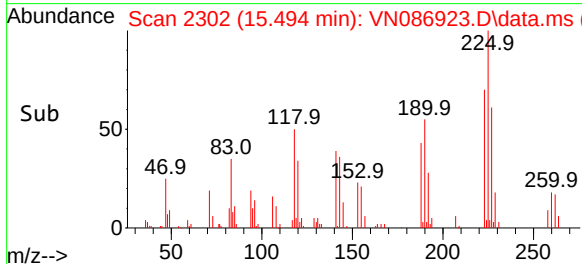
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD



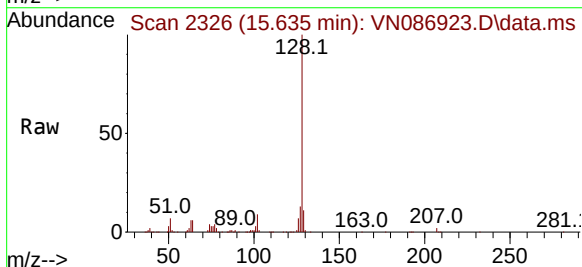
Tgt Ion:225 Resp: 2891
Ion Ratio Lower Upper
225 100
223 65.5 33.5 100.4
227 59.8 31.1 93.5

Manual Integrations
APPROVED

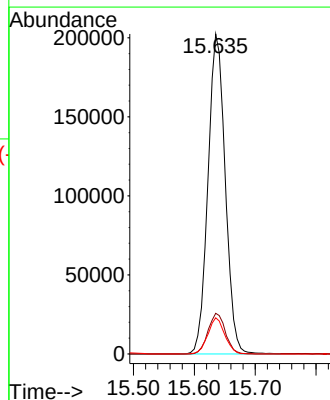
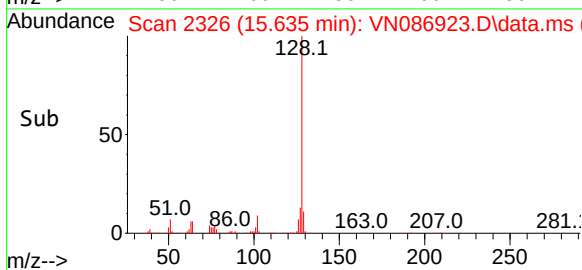
Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

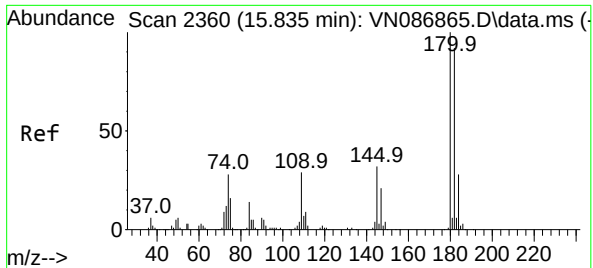


#95
Naphthalene
Concen: 40.957 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN086923.D
Acq: 10 Jun 2025 13:12



Tgt Ion:128 Resp: 399267
Ion Ratio Lower Upper
128 100
127 12.8 10.2 15.2
129 11.0 8.8 13.2





#96

1,2,3-Trichlorobenzene

Concen: 35.852 ug/l

RT: 15.835 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN086923.D

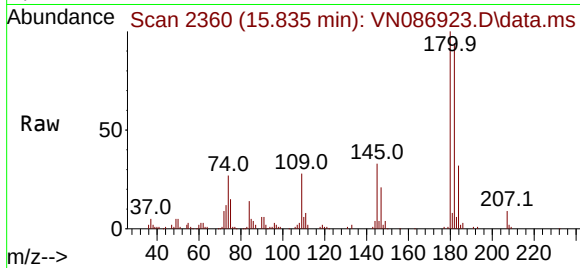
Acq: 10 Jun 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525MSD



Tgt Ion:180 Resp: 9329

Ion Ratio Lower Upper

180 100

182 95.6 47.0 141.0

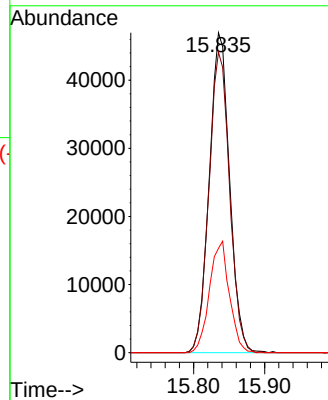
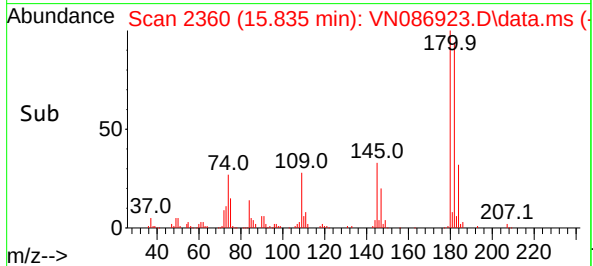
145 34.1 16.6 49.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/11/2025

Supervised By :Mahesh Dadoda 06/11/2025



Manual Integration Report

Sequence:	vn060625	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN086862.D	1,1,2-Trichlorotrifluoroethane	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	1,4-Dichlorobenzene	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	2-Hexanone	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	N-amyl acetate	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC005	VN086863.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:13 AM	MMDadoda	6/9/2025 1:13:19 PM	Peak Integrated by Software
VSTDICC005	VN086863.D	N-amyl acetate	JOHN	6/9/2025 8:02:13 AM	MMDadoda	6/9/2025 1:13:19 PM	Peak Integrated by Software
VSTDICC020	VN086864.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:19 AM	MMDadoda	6/9/2025 1:13:21 PM	Peak Integrated by Software
VSTDICCC050	VN086865.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:25 AM	MMDadoda	6/9/2025 1:13:23 PM	Peak Integrated by Software
VSTDICC100	VN086866.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:29 AM	MMDadoda	6/9/2025 1:13:28 PM	Peak Integrated by Software
VSTDICC150	VN086867.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:34 AM	MMDadoda	6/9/2025 1:13:30 PM	Peak Integrated by Software
VSTDICV050	VN086869.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:38 AM	MMDadoda	6/9/2025 1:13:34 PM	Peak Integrated by Software
VSTDCCC050	VN086886.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:55 AM	MMDadoda	6/9/2025 1:13:44 PM	Peak Integrated by Software



Manual Integration Report

Sequence:

vn060625

Instrument

MSVOA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	VN061025	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN086913.D	1,2,3-Trichloropropane	JOHN	6/11/2025 9:51:44 AM	MMDadoda	6/11/2025 11:12:24 AM	Peak Integrated by Software
VSTDCCC050	VN086913.D	trans-1,4-Dichloro-2-but ene	JOHN	6/11/2025 9:51:44 AM	MMDadoda	6/11/2025 11:12:24 AM	Peak Integrated by Software
VN0610WBS01	VN086916.D	1,2,3-Trichloropropane	JOHN	6/11/2025 9:51:48 AM	MMDadoda	6/11/2025 11:12:38 AM	Peak Integrated by Software
VN0610WBS01	VN086916.D	N-amyl acetate	JOHN	6/11/2025 9:51:48 AM	MMDadoda	6/11/2025 11:12:38 AM	Peak Integrated by Software
Q2250-02MS	VN086922.D	1,2,3-Trichloropropane	JOHN	6/11/2025 9:51:56 AM	MMDadoda	6/11/2025 11:12:42 AM	Peak Integrated by Software
Q2250-02MS	VN086922.D	N-amyl acetate	JOHN	6/11/2025 9:51:56 AM	MMDadoda	6/11/2025 11:12:42 AM	Peak Integrated by Software
Q2250-03MSD	VN086923.D	1,2,3-Trichloropropane	JOHN	6/11/2025 9:52:00 AM	MMDadoda	6/11/2025 11:12:43 AM	Peak Integrated by Software
VSTDCCC050	VN086938.D	1,2,3-Trichloropropane	JOHN	6/11/2025 9:52:32 AM	MMDadoda	6/11/2025 11:12:50 AM	Peak Integrated by Software
VSTDCCC050	VN086938.D	trans-1,4-Dichloro-2-but ene	JOHN	6/11/2025 9:52:32 AM	MMDadoda	6/11/2025 11:12:50 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

vn061125

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN086940.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:47:09 AM	Sam	6/12/2025 3:54:50 PM	Peak Integrated by Software
VN0611WBS02	VN086944.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:47:21 AM	Sam	6/12/2025 3:54:50 PM	Peak Integrated by Software
VSTDCCC050	VN086965.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:53:57 AM	Sam	6/12/2025 3:54:56 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM
Supervise By	Maresh Dadoda	Supervise On	6/9/2025 1:13:51 PM
SubDirectory	VN060625	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134155		
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247		
CCC	VP134156		
Internal Standard/PEM			
ICV/I.BLK	VP134248		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086861.D	06 Jun 2025 07:59	JC\MD	Ok
2	VSTDIC001	VN086862.D	06 Jun 2025 12:44	JC\MD	Ok,M
3	VSTDIC005	VN086863.D	06 Jun 2025 13:17	JC\MD	Ok,M
4	VSTDIC020	VN086864.D	06 Jun 2025 13:40	JC\MD	Ok,M
5	VSTDIC050	VN086865.D	06 Jun 2025 14:03	JC\MD	Ok,M
6	VSTDIC100	VN086866.D	06 Jun 2025 14:26	JC\MD	Ok,M
7	VSTDIC150	VN086867.D	06 Jun 2025 14:49	JC\MD	Ok,M
8	IBLK	VN086868.D	06 Jun 2025 15:12	JC\MD	Ok
9	VSTDICV050	VN086869.D	06 Jun 2025 15:54	JC\MD	Ok,M
10	VN0606WBL01	VN086870.D	06 Jun 2025 16:47	JC\MD	Ok
11	VN0606WBL02	VN086871.D	06 Jun 2025 17:10	JC\MD	Ok
12	VN0606WBS01	VN086872.D	06 Jun 2025 17:33	JC\MD	Ok,M
13	VN0606WBSD01	VN086873.D	06 Jun 2025 17:56	JC\MD	Ok,M
14	Q2254-01	VN086874.D	06 Jun 2025 18:19	JC\MD	Not Ok
15	Q2237-02	VN086875.D	06 Jun 2025 18:42	JC\MD	Ok
16	Q2216-02	VN086876.D	06 Jun 2025 19:05	JC\MD	Ok
17	Q2216-03	VN086877.D	06 Jun 2025 19:28	JC\MD	Ok
18	Q2216-04	VN086878.D	06 Jun 2025 19:51	JC\MD	Ok
19	Q2216-05	VN086879.D	06 Jun 2025 20:13	JC\MD	Not Ok
20	Q2216-06	VN086880.D	06 Jun 2025 20:36	JC\MD	Not Ok
21	Q2206-04	VN086881.D	06 Jun 2025 20:59	JC\MD	Not Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QCBatch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM
Supervise By	Maresh Dadoda	Supervise On	6/9/2025 1:13:51 PM
SubDirectory	VN060625	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134155		
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247		
CCC	VP134156		
Internal Standard/PEM			
ICV/I.BLK	VP134248		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2242-04	VN086882.D	06 Jun 2025 21:21	JC\MD	Not Ok
23	Q2192-01	VN086883.D	06 Jun 2025 21:44	JC\MD	Not Ok
24	Q2198-02	VN086884.D	06 Jun 2025 22:07	JC\MD	Not Ok
25	Q2198-04	VN086885.D	06 Jun 2025 22:29	JC\MD	Not Ok
26	VSTDCCC050	VN086886.D	06 Jun 2025 22:52	JC\MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061025

Review By	John Carlone	Review On	6/11/2025 9:59:27 AM
Supervise By	Maresh Dadoda	Supervise On	6/11/2025 11:14:28 AM
SubDirectory	VN061025	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134203		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134204,VP134205		

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086912.D	10 Jun 2025 08:39	JC\MD	Ok
2	VSTDCCC050	VN086913.D	10 Jun 2025 09:13	JC\MD	Ok,M
3	VN0610MBL01	VN086914.D	10 Jun 2025 09:47	JC\MD	Ok
4	VN0610WBL01	VN086915.D	10 Jun 2025 10:09	JC\MD	Ok
5	VN0610WBS01	VN086916.D	10 Jun 2025 10:30	JC\MD	Ok,M
6	VN0610WBSD01	VN086917.D	10 Jun 2025 11:04	JC\MD	Ok,M
7	IBLK	VN086918.D	10 Jun 2025 11:25	JC\MD	Ok
8	Q2250-05	VN086919.D	10 Jun 2025 11:47	JC\MD	Ok
9	Q2250-06	VN086920.D	10 Jun 2025 12:08	JC\MD	Ok
10	Q2250-01	VN086921.D	10 Jun 2025 12:30	JC\MD	Dilution
11	Q2250-02MS	VN086922.D	10 Jun 2025 12:51	JC\MD	Ok,M
12	Q2250-03MSD	VN086923.D	10 Jun 2025 13:12	JC\MD	Ok,M
13	IBLK	VN086924.D	10 Jun 2025 13:34	JC\MD	Ok
14	Q2251-01	VN086925.D	10 Jun 2025 13:55	JC\MD	Not Ok
15	Q2251-06	VN086926.D	10 Jun 2025 14:17	JC\MD	Not Ok
16	Q2251-05	VN086927.D	10 Jun 2025 14:38	JC\MD	ReRun
17	Q2251-02	VN086928.D	10 Jun 2025 15:00	JC\MD	Ok
18	Q2251-03	VN086929.D	10 Jun 2025 15:22	JC\MD	Ok
19	IBLK	VN086930.D	10 Jun 2025 15:43	JC\MD	Ok
20	IBLK	VN086931.D	10 Jun 2025 16:05	JC\MD	Ok
21	Q2251-01	VN086932.D	10 Jun 2025 16:26	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061025

Review By	John Carlone	Review On	6/11/2025 9:59:27 AM
Supervise By	Maresh Dadoda	Supervise On	6/11/2025 11:14:28 AM
SubDirectory	VN061025	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134203		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134204,VP134205		

22	Q2251-05	VN086933.D	10 Jun 2025 16:48	JC\MD	Ok
23	Q2202-01	VN086934.D	10 Jun 2025 17:09	JC\MD	Ok
24	Q2202-02	VN086935.D	10 Jun 2025 17:31	JC\MD	Ok
25	Q2202-03	VN086936.D	10 Jun 2025 17:52	JC\MD	Dilution
26	Q2279-01	VN086937.D	10 Jun 2025 18:14	JC\MD	Ok
27	VSTDCCC050	VN086938.D	10 Jun 2025 18:57	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN061125

Review By	John Carlone	Review On	6/12/2025 9:57:37 AM
Supervise By	Semsettin Yesilyurt	Supervise On	6/12/2025 3:55:33 PM
SubDirectory	VN061125	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134284		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134285,VP134286		

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086939.D	11 Jun 2025 10:22	JC\MD	Ok
2	VSTDCCC050	VN086940.D	11 Jun 2025 11:32	JC\MD	Ok,M
3	VN0611MBL01	VN086941.D	11 Jun 2025 12:06	JC\MD	Ok
4	VN0611WBL01	VN086942.D	11 Jun 2025 12:28	JC\MD	Ok
5	VN0611WBS01	VN086943.D	11 Jun 2025 12:50	JC\MD	Not Ok
6	VN0611WBS02	VN086944.D	11 Jun 2025 13:27	JC\MD	Ok,M
7	VN0611WBSD02	VN086945.D	11 Jun 2025 14:01	JC\MD	Ok,M
8	Q2251-06	VN086946.D	11 Jun 2025 14:22	JC\MD	Ok
9	Q2202-03DL	VN086947.D	11 Jun 2025 14:44	JC\MD	Ok,M
10	Q2250-01DL	VN086948.D	11 Jun 2025 15:06	JC\MD	Ok
11	Q2202-06	VN086949.D	11 Jun 2025 15:28	JC\MD	Ok
12	Q2189-01	VN086950.D	11 Jun 2025 15:50	JC\MD	Ok
13	Q2202-05	VN086951.D	11 Jun 2025 16:12	JC\MD	Ok
14	Q2202-04	VN086952.D	11 Jun 2025 16:35	JC\MD	Ok
15	Q2231-01	VN086953.D	11 Jun 2025 16:57	JC\MD	Ok
16	Q2231-02	VN086954.D	11 Jun 2025 17:19	JC\MD	Ok,M
17	Q2231-03	VN086955.D	11 Jun 2025 17:41	JC\MD	Ok
18	Q2231-04	VN086956.D	11 Jun 2025 18:04	JC\MD	Ok
19	Q2231-05	VN086957.D	11 Jun 2025 18:26	JC\MD	Ok
20	Q2231-06	VN086958.D	11 Jun 2025 18:48	JC\MD	Ok
21	Q2210-01	VN086959.D	11 Jun 2025 19:10	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061125

Review By	John Carlone	Review On	6/12/2025 9:57:37 AM
Supervise By	Semsettin Yesilyurt	Supervise On	6/12/2025 3:55:33 PM
SubDirectory	VN061125	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134284		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134285,VP134286		

22	Q2209-01	VN086960.D	11 Jun 2025 19:33	JC\MD	Ok
23	IBLK	VN086961.D	11 Jun 2025 19:55	JC\MD	Ok
24	IBLK	VN086962.D	11 Jun 2025 20:17	JC\MD	Ok
25	Q2263-01	VN086963.D	11 Jun 2025 20:39	JC\MD	Ok
26	Q2263-02	VN086964.D	11 Jun 2025 21:01	JC\MD	Ok
27	VSTDCCC050	VN086965.D	11 Jun 2025 21:23	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM
Supervise By	Mahesh Dadoda	Supervise On	6/9/2025 1:13:51 PM
SubDirectory	VN060625	HP Acquire Method	HP Processing Method 82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134155 VP134242,VP134243,VP134244,VP134245,VP134246,VP134247
CCC Internal Standard/PEM	VP134156
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134248

Sr #	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086861.D	06 Jun 2025 07:59		JC\MD	Ok
2	VSTDICC001	VSTDICC001	VN086862.D	06 Jun 2025 12:44	Method failed for com.#13	JC\MD	Ok,M
3	VSTDICC005	VSTDICC005	VN086863.D	06 Jun 2025 13:17		JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN086864.D	06 Jun 2025 13:40		JC\MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VN086865.D	06 Jun 2025 14:03		JC\MD	Ok,M
6	VSTDICC100	VSTDICC100	VN086866.D	06 Jun 2025 14:26		JC\MD	Ok,M
7	VSTDICC150	VSTDICC150	VN086867.D	06 Jun 2025 14:49		JC\MD	Ok,M
8	IBLK	IBLK	VN086868.D	06 Jun 2025 15:12		JC\MD	Ok
9	VSTDICV050	ICVVN060625	VN086869.D	06 Jun 2025 15:54		JC\MD	Ok,M
10	VN0606WBL01	VN0606WBL01	VN086870.D	06 Jun 2025 16:47		JC\MD	Ok
11	VN0606WBL02	VN0606WBL02	VN086871.D	06 Jun 2025 17:10		JC\MD	Ok
12	VN0606WBS01	VN0606WBS01	VN086872.D	06 Jun 2025 17:33		JC\MD	Ok,M
13	VN0606WBSD01	VN0606WBSD01	VN086873.D	06 Jun 2025 17:56		JC\MD	Ok,M
14	Q2254-01	BP-VPB-182-GW-810-8	VN086874.D	06 Jun 2025 18:19	vial A pH<2 endccc out of tune	JC\MD	Not Ok
15	Q2237-02	TW-WTS-10	VN086875.D	06 Jun 2025 18:42	vial A pH<2	JC\MD	Ok
16	Q2216-02	3887	VN086876.D	06 Jun 2025 19:05	vial A pH<2	JC\MD	Ok
17	Q2216-03	3888	VN086877.D	06 Jun 2025 19:28	vial A pH<2	JC\MD	Ok
18	Q2216-04	3864	VN086878.D	06 Jun 2025 19:51	vial A pH<2	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM
Supervise By	Maresh Dadoda	Supervise On	6/9/2025 1:13:51 PM
SubDirectory	VN060625	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134155		
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247		
CCC	VP134156		
Internal Standard/PEM			
ICV/I.BLK	VP134248		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q2216-05	3865	VN086879.D	06 Jun 2025 20:13	vial A pH<2 Out of Tune	JC\MD	Not Ok
20	Q2216-06	3851	VN086880.D	06 Jun 2025 20:36	vial A pH<2 Out of Tune	JC\MD	Not Ok
21	Q2206-04	TP-1	VN086881.D	06 Jun 2025 20:59	vial A pH<2 Out of Tune	JC\MD	Not Ok
22	Q2242-04	TP09-MHJ	VN086882.D	06 Jun 2025 21:21	vial A pH<2 Out of Tune	JC\MD	Not Ok
23	Q2192-01	SB-1	VN086883.D	06 Jun 2025 21:44	vial A pH<2 Out of Tune	JC\MD	Not Ok
24	Q2198-02	B-202-SB02	VN086884.D	06 Jun 2025 22:07	vial A pH<2 Out of Tune	JC\MD	Not Ok
25	Q2198-04	B-207-SB02	VN086885.D	06 Jun 2025 22:29	vial A pH<2 Out of Tune	JC\MD	Not Ok
26	VSTDCCC050	VSTDCCC050EC	VN086886.D	06 Jun 2025 22:52	Out of Tune	JC\MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061025

Review By	John Carlone	Review On	6/11/2025 9:59:27 AM
Supervise By	Maresh Dadoda	Supervise On	6/11/2025 11:14:28 AM
SubDirectory	VN061025	HP Acquire Method	HP Processing Method 82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134203
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134204,VP134205

Sr #	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086912.D	10 Jun 2025 08:39		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN086913.D	10 Jun 2025 09:13	pH#Lot#V12668	JC\MD	Ok,M
3	VN0610MBL01	VN0610MBL01	VN086914.D	10 Jun 2025 09:47		JC\MD	Ok
4	VN0610WBL01	VN0610WBL01	VN086915.D	10 Jun 2025 10:09		JC\MD	Ok
5	VN0610WBS01	VN0610WBS01	VN086916.D	10 Jun 2025 10:30		JC\MD	Ok,M
6	VN0610WBSD01	VN0610WBSD01	VN086917.D	10 Jun 2025 11:04		JC\MD	Ok,M
7	IBLK	IBLK	VN086918.D	10 Jun 2025 11:25		JC\MD	Ok
8	Q2250-05	EB02-060525	VN086919.D	10 Jun 2025 11:47	vial A pH<2 EB	JC\MD	Ok
9	Q2250-06	TB-01-060525	VN086920.D	10 Jun 2025 12:08	vial A pH<2 TB	JC\MD	Ok
10	Q2250-01	MW-11A-13.5-060525	VN086921.D	10 Jun 2025 12:30	vial A pH<2 Need 20X	JC\MD	Dilution
11	Q2250-02MS	MW-11A-13.5-060525M	VN086922.D	10 Jun 2025 12:51	vial A pH<2	JC\MD	Ok,M
12	Q2250-03MSD	MW-11A-13.5-060525M	VN086923.D	10 Jun 2025 13:12	vial A pH<2	JC\MD	Ok,M
13	IBLK	IBLK	VN086924.D	10 Jun 2025 13:34		JC\MD	Ok
14	Q2251-01	BP-VPB-182-TB-20250	VN086925.D	10 Jun 2025 13:55	Confirm concentration	JC\MD	Not Ok
15	Q2251-06	VPB182-HYD-2025060	VN086926.D	10 Jun 2025 14:17	Confirm concentration	JC\MD	Not Ok
16	Q2251-05	BP-VPB-182-EB-20250	VN086927.D	10 Jun 2025 14:38	vial A pH<2 EB;Hit of comp.#16,25	JC\MD	ReRun
17	Q2251-02	BP-VPB-182-GW-740-7	VN086928.D	10 Jun 2025 15:00	vial A pH<2	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061025

Review By	John Carlone	Review On	6/11/2025 9:59:27 AM
Supervise By	Maresh Dadoda	Supervise On	6/11/2025 11:14:28 AM
SubDirectory	VN061025	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134203		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134204,VP134205		

18	Q2251-03	BP-VPB-182-GW-760-7	VN086929.D	10 Jun 2025 15:22	vial A pH<2	JC\MD	Ok
19	IBLK	IBLK	VN086930.D	10 Jun 2025 15:43		JC\MD	Ok
20	IBLK	IBLK	VN086931.D	10 Jun 2025 16:05		JC\MD	Ok
21	Q2251-01	BP-VPB-182-TB-20250	VN086932.D	10 Jun 2025 16:26	vial A pH<2 TB	JC\MD	Ok
22	Q2251-05	BP-VPB-182-EB-20250	VN086933.D	10 Jun 2025 16:48	vial B pH<2 EB	JC\MD	Ok
23	Q2202-01	MW-9-20250603	VN086934.D	10 Jun 2025 17:09	vial A pH<2	JC\MD	Ok
24	Q2202-02	MW-11-20250603	VN086935.D	10 Jun 2025 17:31	vial A pH<2	JC\MD	Ok
25	Q2202-03	MW-12-20250603	VN086936.D	10 Jun 2025 17:52	vial A pH<2 Need 5X	JC\MD	Dilution
26	Q2279-01	301-469-5TH-AVE	VN086937.D	10 Jun 2025 18:14	vial A pH<2	JC\MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VN086938.D	10 Jun 2025 18:57		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061125

Review By	John Carlone	Review On	6/12/2025 9:57:37 AM
Supervise By	Semsettin Yesilyurt	Supervise On	6/12/2025 3:55:33 PM
SubDirectory	VN061125	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134284		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134285,VP134286		

Sr #	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086939.D	11 Jun 2025 10:22		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN086940.D	11 Jun 2025 11:32	pH#Lot#V12668	JC\MD	Ok,M
3	VN0611MBL01	VN0611MBL01	VN086941.D	11 Jun 2025 12:06		JC\MD	Ok
4	VN0611WBL01	VN0611WBL01	VN086942.D	11 Jun 2025 12:28		JC\MD	Ok
5	VN0611WBS01	VN0611WBS01	VN086943.D	11 Jun 2025 12:50	Recovery fail	JC\MD	Not Ok
6	VN0611WBS02	VN0611WBS02	VN086944.D	11 Jun 2025 13:27		JC\MD	Ok,M
7	VN0611WBSD02	VN0611WBSD02	VN086945.D	11 Jun 2025 14:01		JC\MD	Ok,M
8	Q2251-06	VPB182-HYD-2025060	VN086946.D	11 Jun 2025 14:22	vial A pH<2	JC\MD	Ok
9	Q2202-03DL	MW-12-20250603DL	VN086947.D	11 Jun 2025 14:44	vial B pH<2	JC\MD	Ok,M
10	Q2250-01DL	MW-11A-13.5-060525D	VN086948.D	11 Jun 2025 15:06	vial B pH<2	JC\MD	Ok
11	Q2202-06	TB-20250603	VN086949.D	11 Jun 2025 15:28	vial A pH<2 TB	JC\MD	Ok
12	Q2189-01	MW-7-20250602	VN086950.D	11 Jun 2025 15:50	vial B pH<2	JC\MD	Ok
13	Q2202-05	MW-1A-20250603	VN086951.D	11 Jun 2025 16:12	vial A pH<2	JC\MD	Ok
14	Q2202-04	MW-130-20250603	VN086952.D	11 Jun 2025 16:35	vial A pH<2	JC\MD	Ok
15	Q2231-01	MW-10D-20250604	VN086953.D	11 Jun 2025 16:57	vial A pH<2	JC\MD	Ok
16	Q2231-02	MW-14-20250604	VN086954.D	11 Jun 2025 17:19	vial A pH<2	JC\MD	Ok,M
17	Q2231-03	MW-15-20250604	VN086955.D	11 Jun 2025 17:41	vial A pH<2	JC\MD	Ok
18	Q2231-04	MW-16D-20250604	VN086956.D	11 Jun 2025 18:04	vial A pH<2	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061125

Review By	John Carlone	Review On	6/12/2025 9:57:37 AM
Supervise By	Semsettin Yesilyurt	Supervise On	6/12/2025 3:55:33 PM
SubDirectory	VN061125	HP Acquire Method	HP Processing Method 82N060625W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134284
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134285,VP134286

19	Q2231-05	MW-17-20250604	VN086957.D	11 Jun 2025 18:26	vial A pH<2	JC\MD	Ok
20	Q2231-06	TB-20250604	VN086958.D	11 Jun 2025 18:48	vial A pH<2 TB	JC\MD	Ok
21	Q2210-01	TW1	VN086959.D	11 Jun 2025 19:10	vial A pH<2	JC\MD	Ok
22	Q2209-01	P01W	VN086960.D	11 Jun 2025 19:33	vial A pH<2	JC\MD	Ok
23	IBLK	IBLK	VN086961.D	11 Jun 2025 19:55		JC\MD	Ok
24	IBLK	IBLK	VN086962.D	11 Jun 2025 20:17		JC\MD	Ok
25	Q2263-01	RW9-MW01D3-202506	VN086963.D	11 Jun 2025 20:39	vial A pH<2	JC\MD	Ok
26	Q2263-02	RW9-MW01S-2025060	VN086964.D	11 Jun 2025 21:01	vial A pH<2	JC\MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VN086965.D	11 Jun 2025 21:23		JC\MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q2250

Test : VOCMS Group3

Prepbatch ID :

Sequence ID/Qc Batch ID: VN061025,vn061125,

Standard ID :

VP133174,VP133887,VP133935,VP133953,VP133991,VP134142,VP134149,VP134203,VP134204,VP134205,VP134284,VP134285,VP134286,

Chemical ID :

V13391,V13706,V14290,V14432,V14435,V14503,V14504,V14525,V14526,V14613,V14620,V14626,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14711,V14717,V14718,V14721,V14749,V14750,V14811,V14812,V14843,V14921,V14929,V14944,V14945,V14946,V14947,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>
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

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>
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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
719	8260 Working STD (BCM)-First source, 400PPM	VP134142	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/10/2025

FROM 1.00000ml of V14668 + 1.00000ml of V14671 + 1.00000ml of V14673 + 1.00000ml of V14675 + 16.00000ml of V14929 = Final
Quantity: 20.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/10/2025

FROM 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
589	BFB TUNE CHECK	VP134203	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	VP134204	06/10/2025	06/11/2025	John Carlone	None	None	Maresh Dadoda
06/10/2025								

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>
620	50 PPB CCC, 8260-Water	VP134205	06/10/2025	06/11/2025	John Carlone	None	None	Maresh Dadoda
06/10/2025								

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>
589	BFB TUNE CHECK	VP134284	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	VP134285	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	VP134286	06/11/2025	06/12/2025	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								

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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	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	02/27/2026	02/27/2025 / SAM	04/12/2023 / SAM	V13706

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/30/2025	05/12/2025 / SAM	08/15/2024 / SAM	V14432

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	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 #
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	11/09/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14626

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	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

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	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

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

CHEMICAL RECEIPT LOG BOOK

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

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 #
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 #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

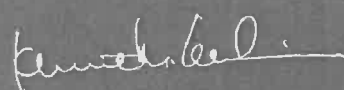
Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

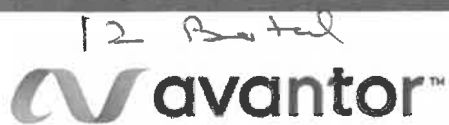
For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC



Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

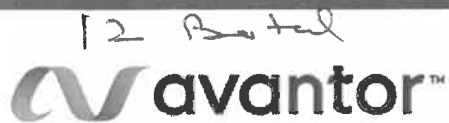
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	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



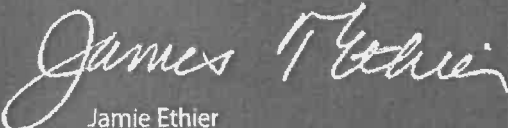
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

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



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	(K049)	Lot	Dil.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Expanded	SDS Information			
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight (g)	Weight (g)	Conc. (µg/mL)	Uncertainty	(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 2480mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8h)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21056	0.21069	2001.1	8.5	1478-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	or-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8h) (skin)	or-rat 75mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8h)	or-rat 2480mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8h) (skin)	or-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8h) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8h)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8h) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8h)	or-rat 720mg/kg
15. Perchloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	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	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.4	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	32261	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8h)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	58-23-5	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 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8h) (final)	or-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8h)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-93-4	20 ppm (8h)	or-rat 108mg/kg
33. 1,2-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 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	or-rat 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8h)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8h) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8h) (skin)	or-rat 936mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8h)	or-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8h)	or-rat 149.8mg/kg
45. Benzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	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	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	N/A	or-rat 1390mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	N/A	or-rat 5000mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	109-38-3	100 ppm (435mg/m3/8h)	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-90-7	75 ppm (350mg/m3/8h)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-49-8	50 ppm (250mg/m3/8h)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-rat 1060mg/kg
64. 1,3-Dichlorobenzene	35163	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 500mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA								

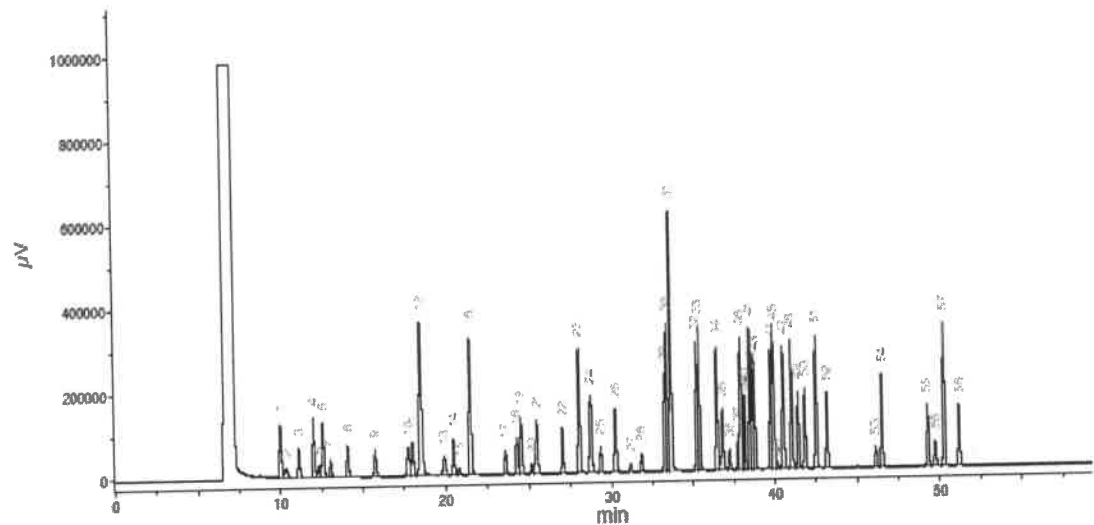


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.60
5	Iodomethane	12.91
6	Allyl chloride	12.96
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	Methoxyvinylbenzene/Methyl acrylate/Chloroform	18.49
13	Isobutene/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.46
21	Dibromomethane/2,2-Dichloropropane	27.07
22	cis-1,2-Dichloroethane	28.03
23	Toluene	28.73
24	Ethyl methacrylate/Trans-1,2-Dichloropropane	29.34
25	1,1,2-Trichloroethane	30.94
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	32.84
28	1,2-Dibromomethane	33.26
29	Chlorobenzene	33.40
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.85
31	m-Xylene/p-Xylene	35.53
32	o-Xylene	35.70
33	Styrene	35.79
34	Isopropylbenzene/Bromofarm	36.48
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	n-Propylbenzene	37.77
38	trans-1,4-Dichloro-3-butene	37.92
39	Bromobenzene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,3,5-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Trichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water
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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.



Ree 03/17/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(KME)	Lot	DR	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
														(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21056	0.21069	2001.1	8.5	1478-11-6	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP9041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 14800mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 3460mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 120mg/kg
11. Methyl acrylate	(0755)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 787mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	H4002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. 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	74-95-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 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	N/A
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	86-12-8	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-93-4	20 ppm (8H)	or-rat 108mg/kg
33. 1,2-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	108-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	N/A	or-rat 1390mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	N/A	or-rat 5000mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	109-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-rat 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)	

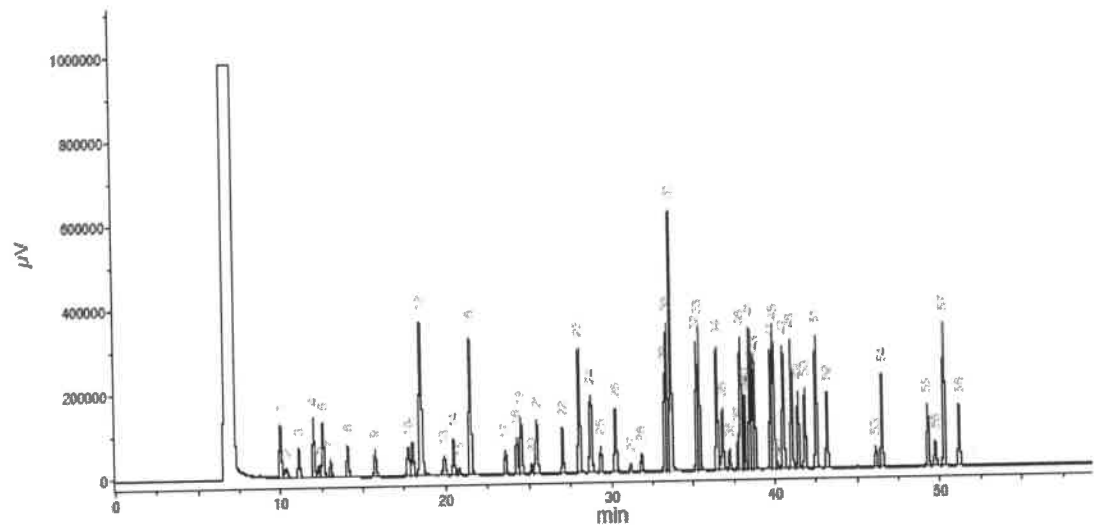


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

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-Dichloropropane	28.03
23	Toluene	28.73
24	Ethyl methacrylate/Trans-1,2-Dichloropropane	29.34
25	1,1,2-Trichloroethane	30.24
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	31.84
28	1,2-Dibromomethane	33.06
29	Chlorobenzene	33.40
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.85
31	m-Xylene/p-Xylene	35.33
32	o-Xylene	35.70
33	Styrene	35.76
34	Isopropylbenzene/Bromobenzene	36.48
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,2-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,3,5-Trimethylbenzene	39.91
46	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	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trichlorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	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))		
Methanol	METHYL ALCOHOL	CAS#: 67-56-1
		% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM

Dec 09/17/24

2 vial

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.

Abundance TIC: [BSB2]79005.D

Abundance Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000

150000

100000

50000

Time--> 0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00



m/z--> 0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



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2 vial

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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>		091424
Formulated By:	Justin Dippold	DATE
<i>Pedro L. Rentas</i>		091424
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
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Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

Abundance TIC: [BSB2]79005.D

Abundance

Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000

150000

100000

50000

Time--> 0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00



m/z--> 0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

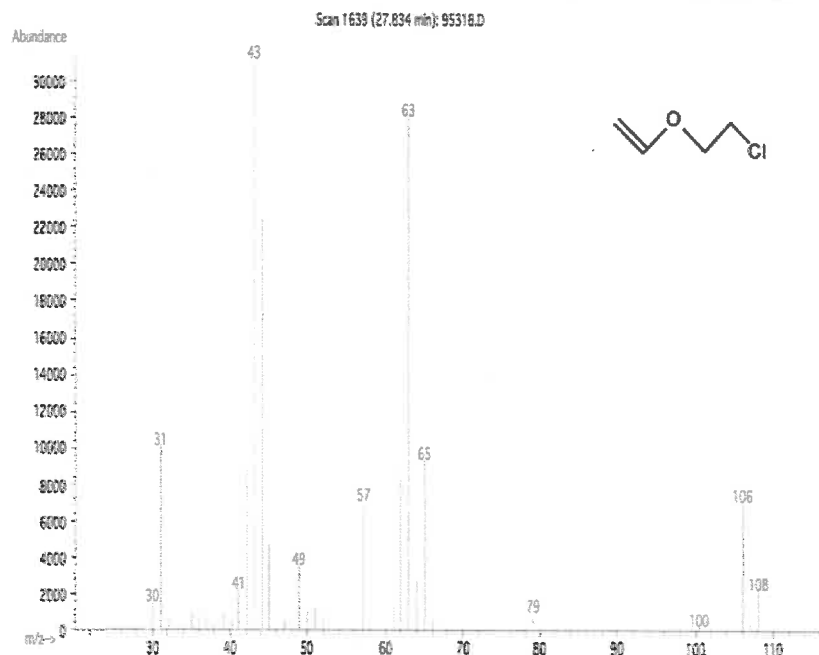
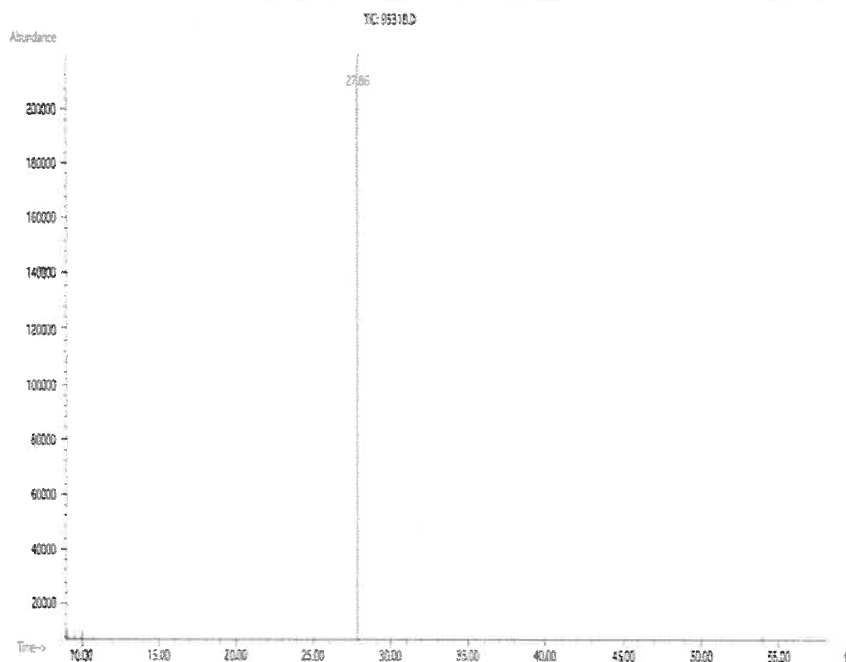
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp. = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
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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**

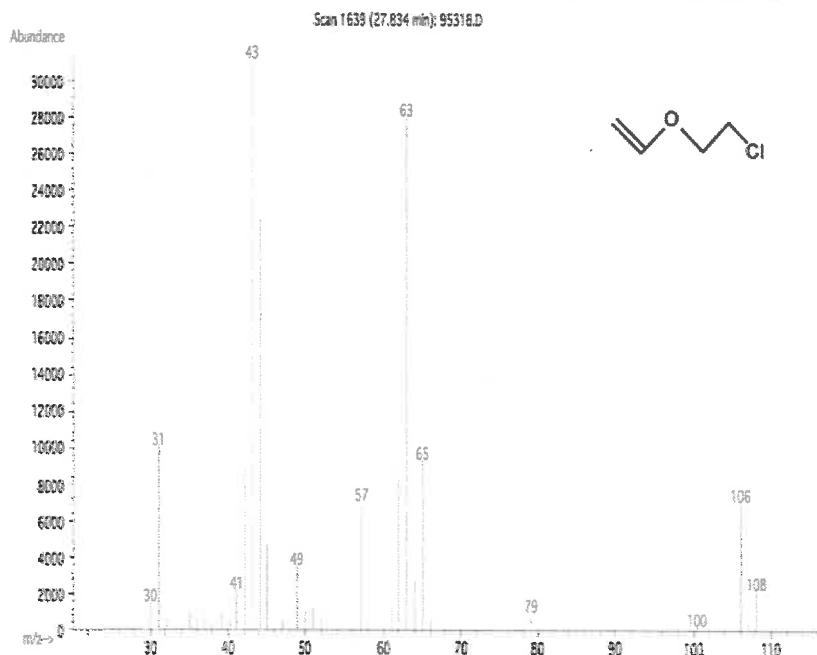
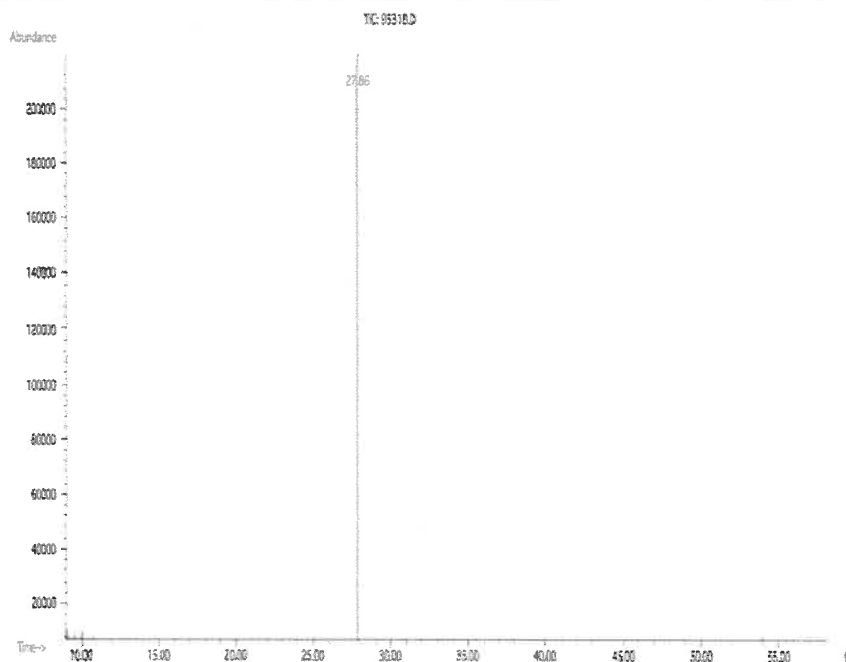
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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.
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Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

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Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

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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

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LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
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
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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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**

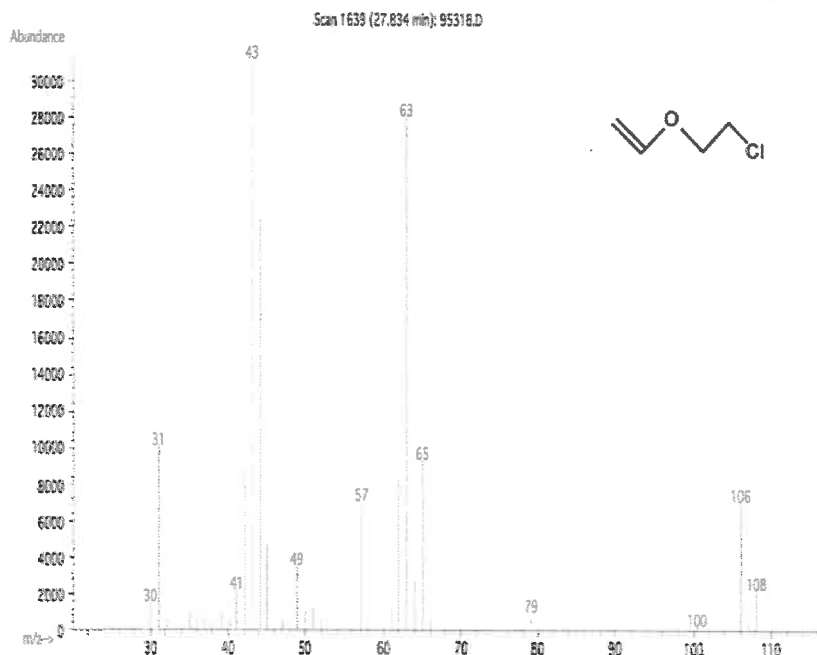
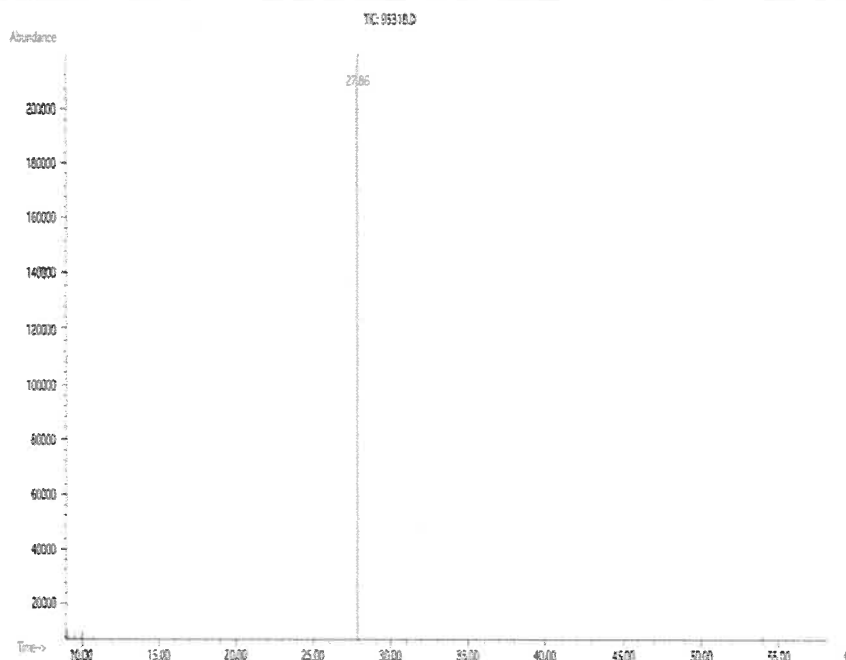
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

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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- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

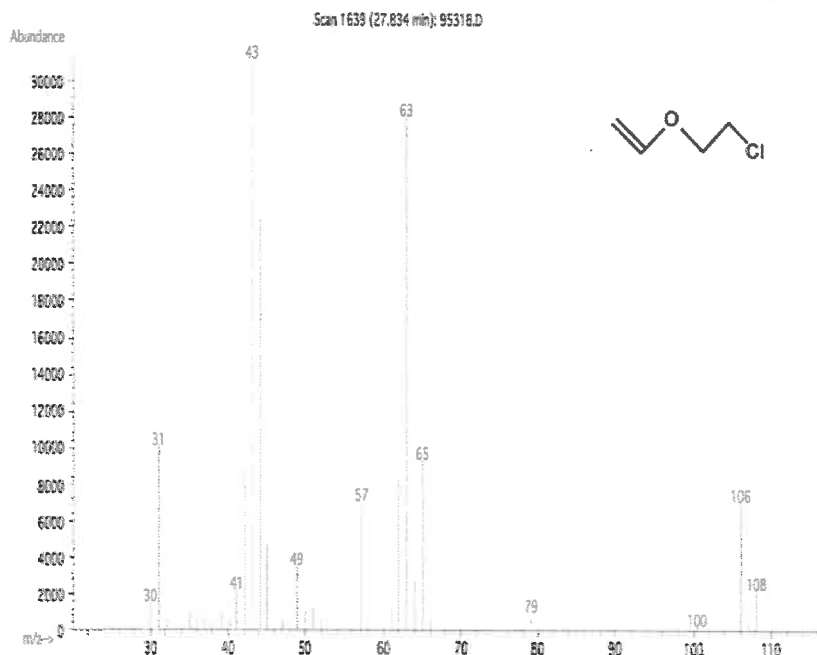
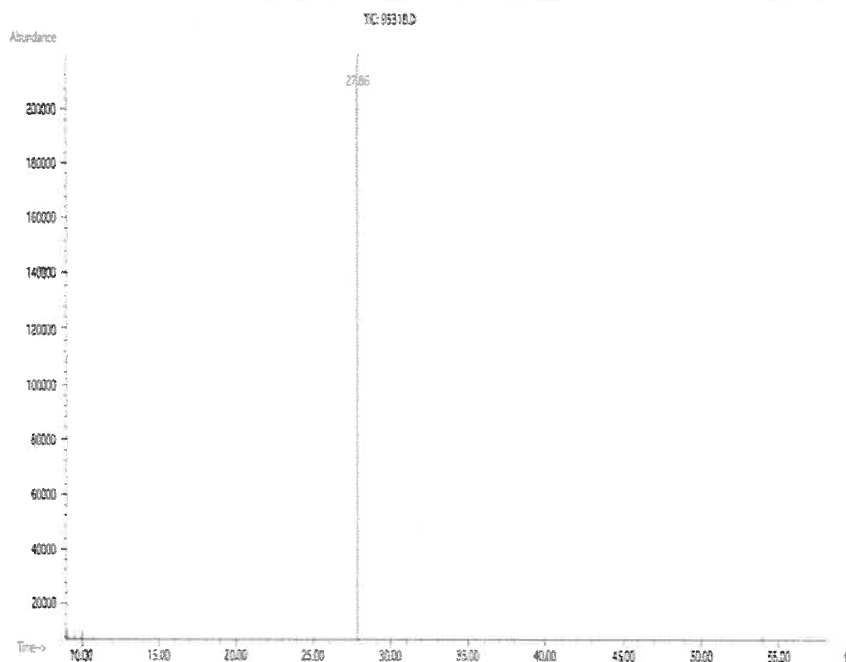
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

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H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
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P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

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Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
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Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

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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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LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
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Section XIII. DISPOSAL CONSIDERATIONS

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DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

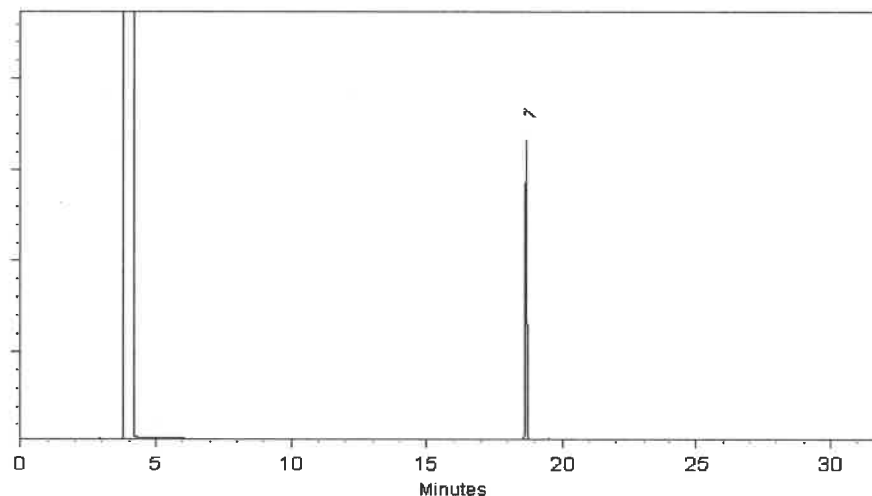
FID

Split Vent:

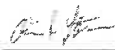
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix
Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023

Balance: 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

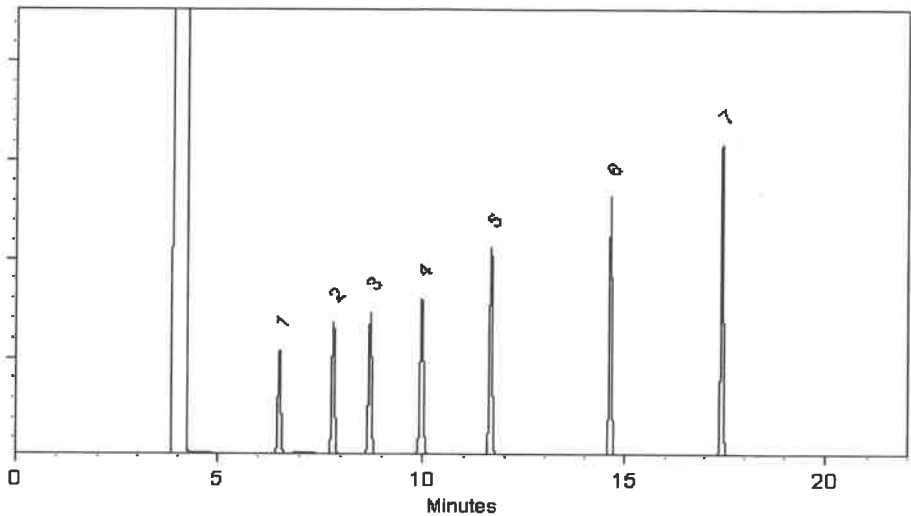
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

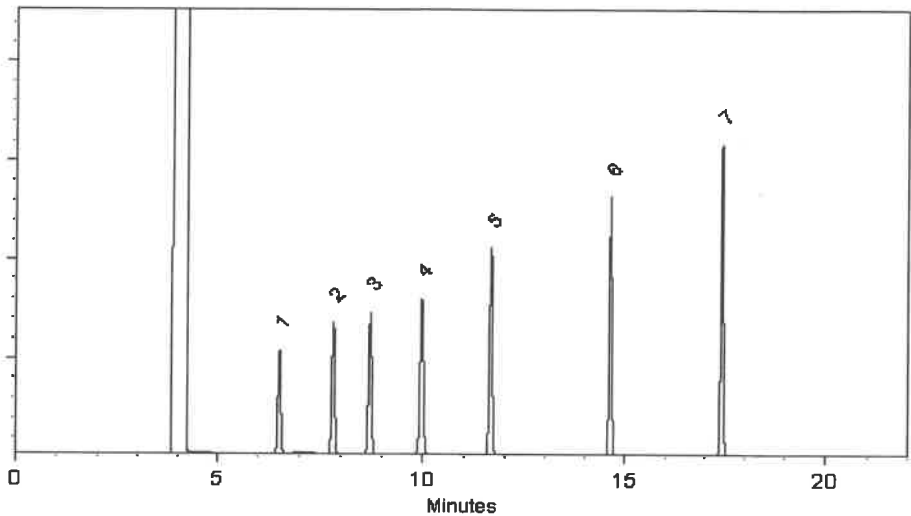
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

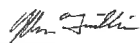
Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%


John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024

Balance: 1127510105

REVISED
By Restek Review of 11-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

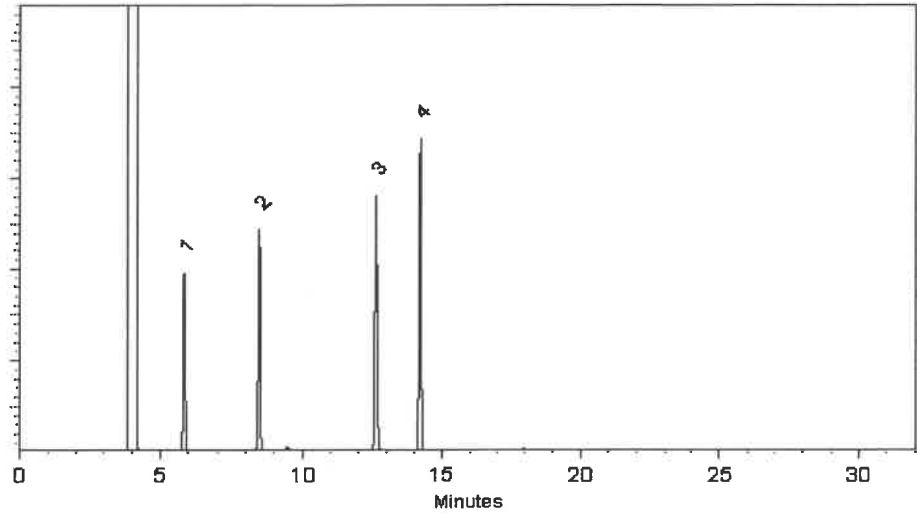
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

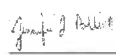


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

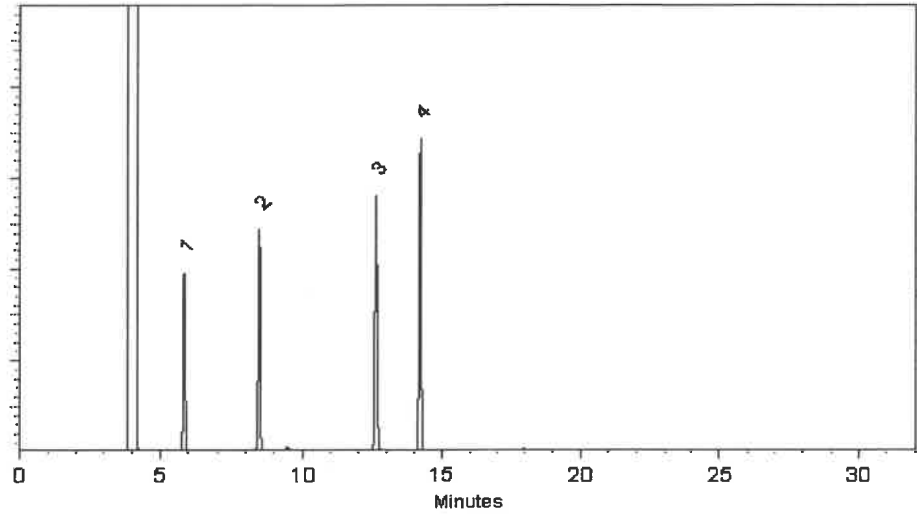
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

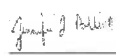


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Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- 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:

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

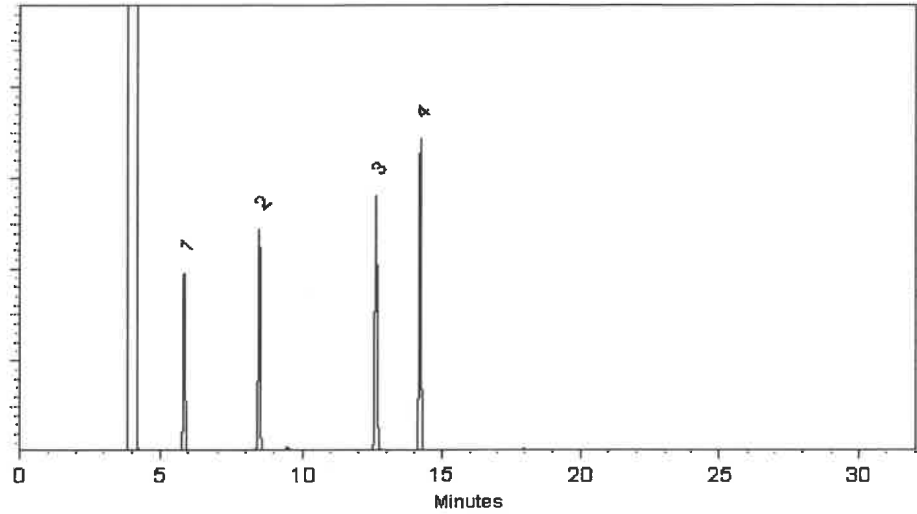
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

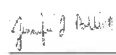


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Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Certified Uncertainty Value Notes:

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Manufacturing Notes:

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Handling Notes:

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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:

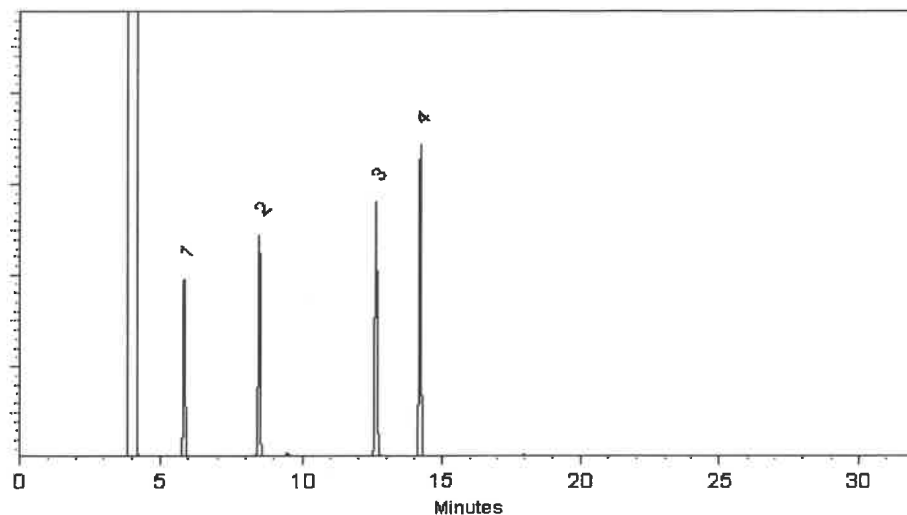
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

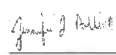


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

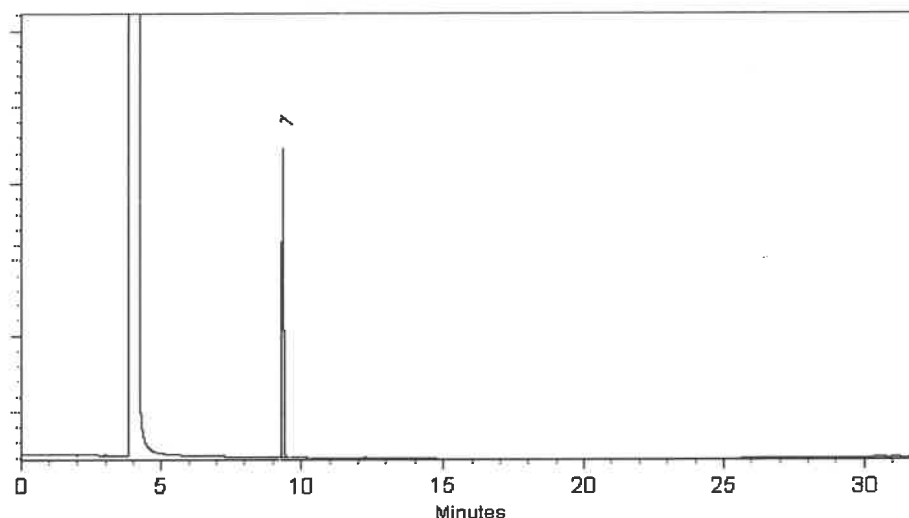
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

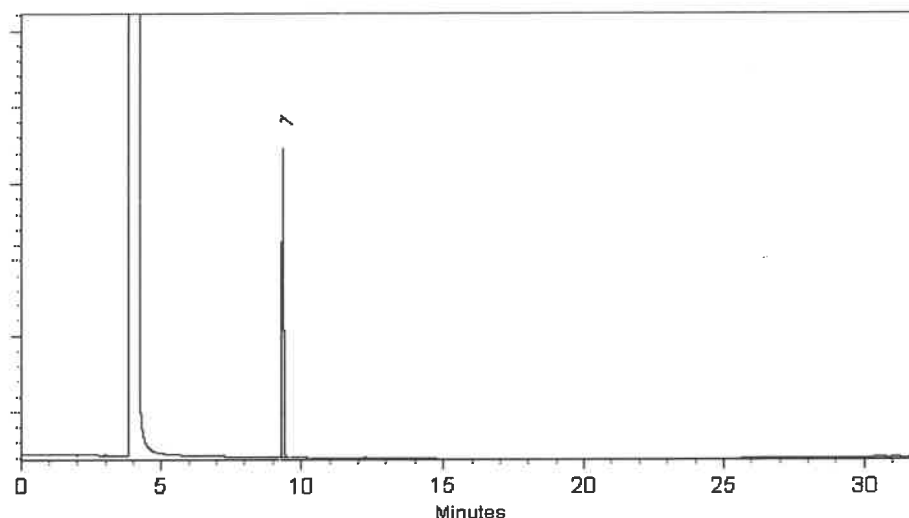
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

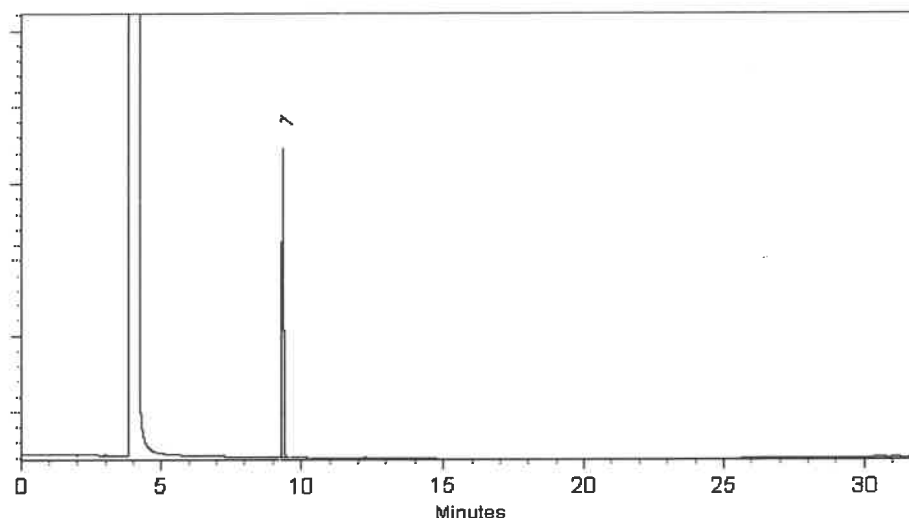
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



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Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

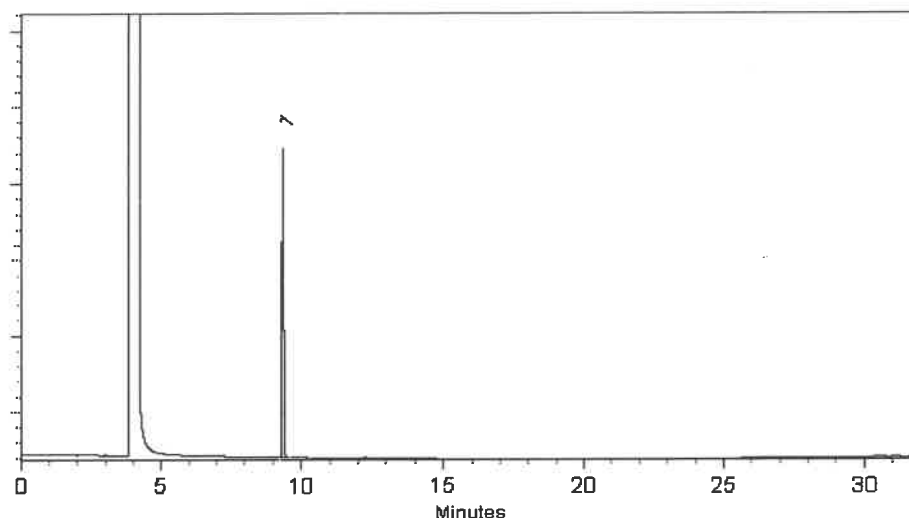
FID

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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V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

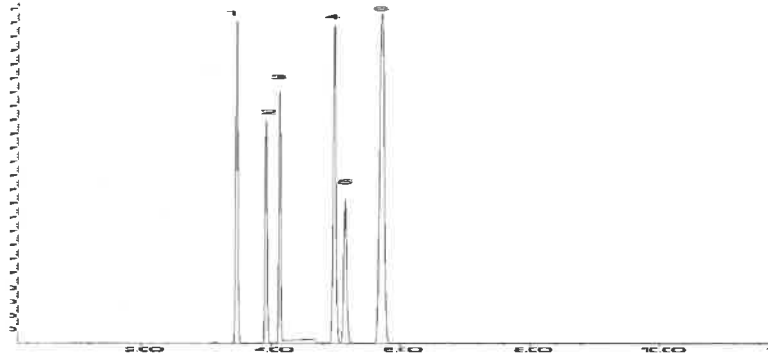
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Fax: 1-814-353-1309

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Rec 12/17/24
CERTIFIED REFERENCE MATERIAL
30 ml

Certificate of Analysis

chromatographic plus

V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

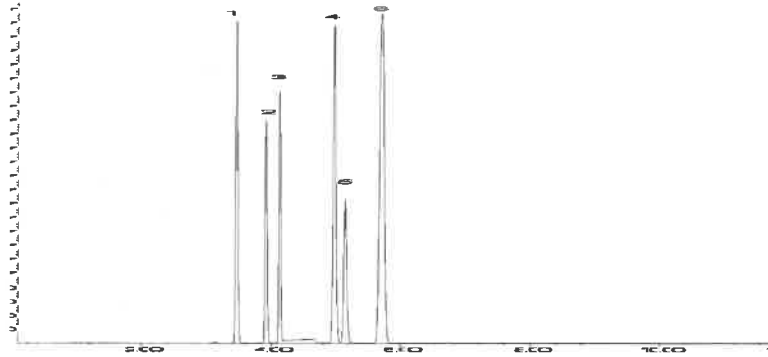
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

✓ 14842 to 14846



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : October 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

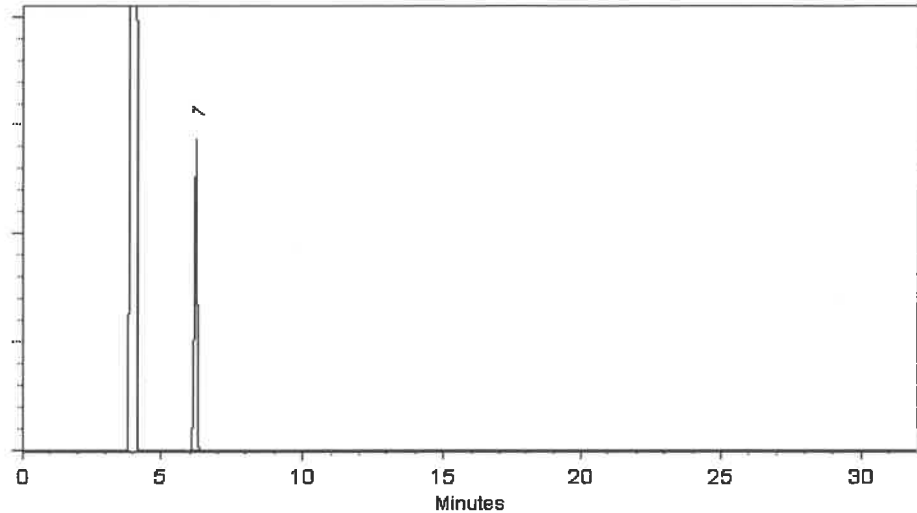
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024

Balance Serial # B251644995

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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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:

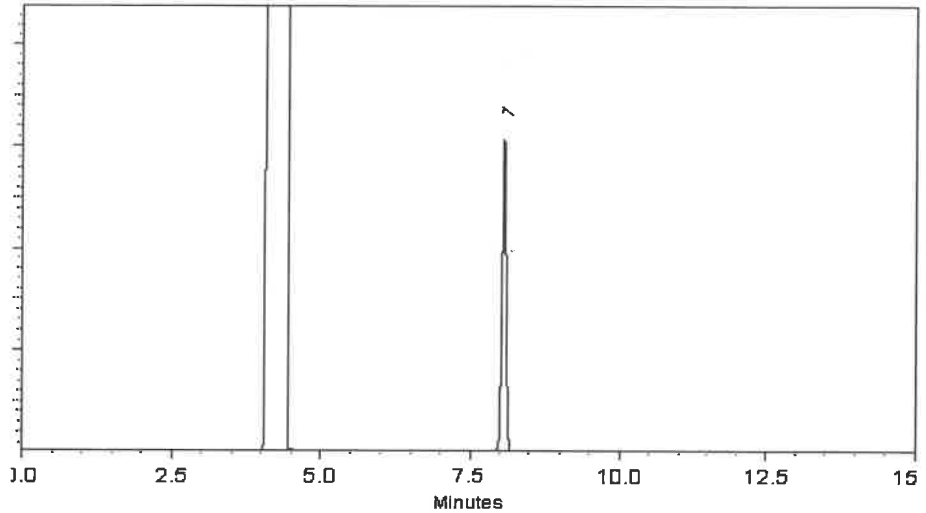
FID

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/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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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:

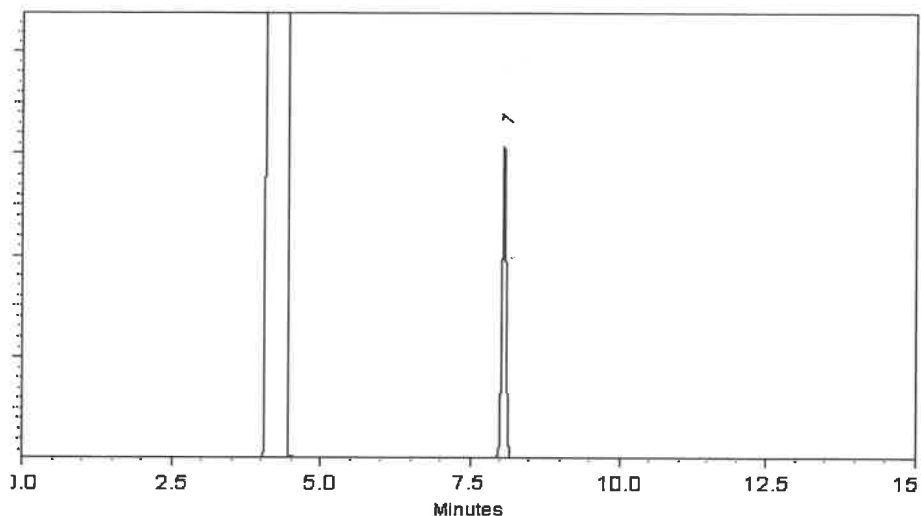
FID

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%.

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Manufacturing Notes:

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Handling Notes:

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Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rev 05/09/25
Avantor[™]



V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rev 05/09/25
Avantor[™]



V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
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

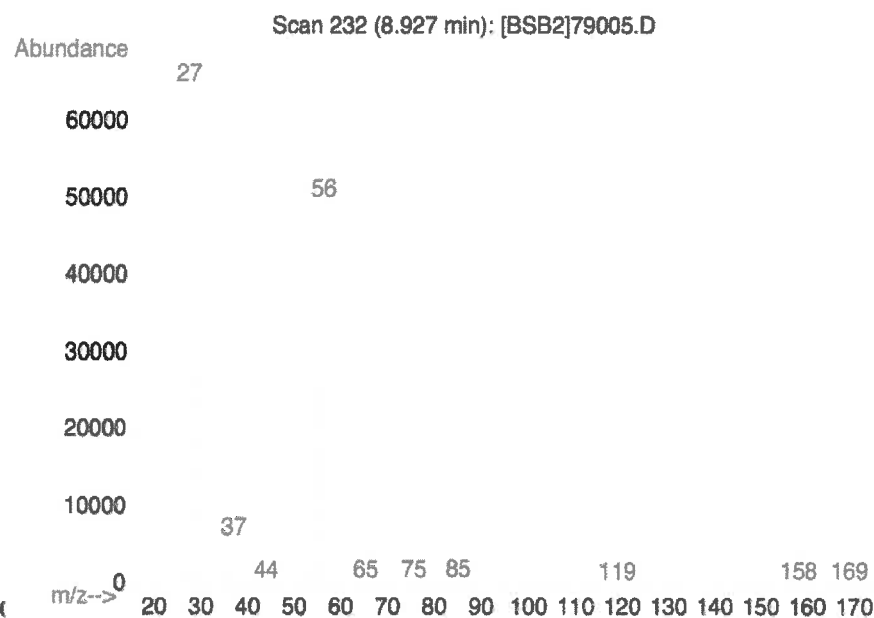
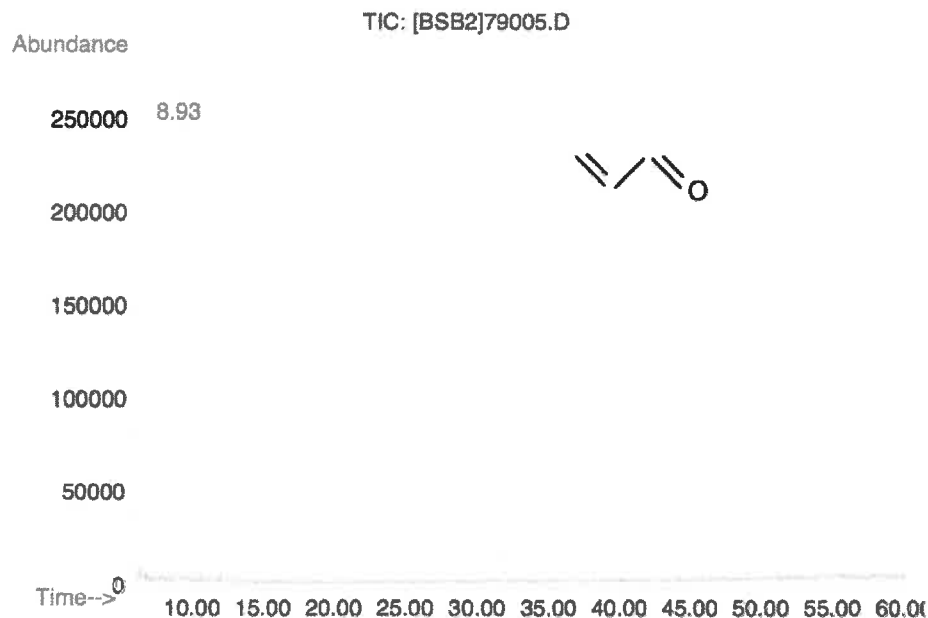
		051925
Formulated By:	Lawrence Barry	DATE
		051925
Reviewed By:	Pedro L. Rentas	DATE

Expiration Date: 061925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

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

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

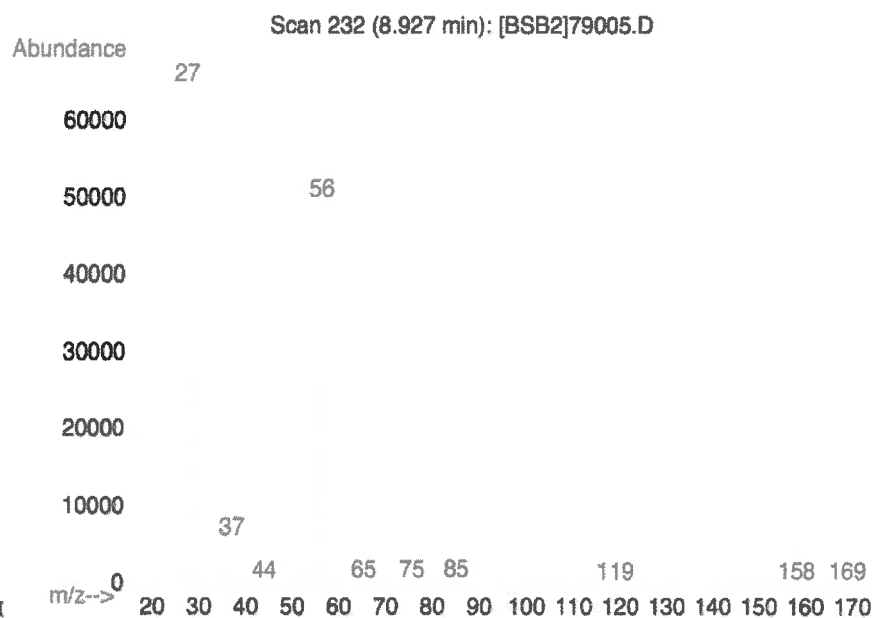
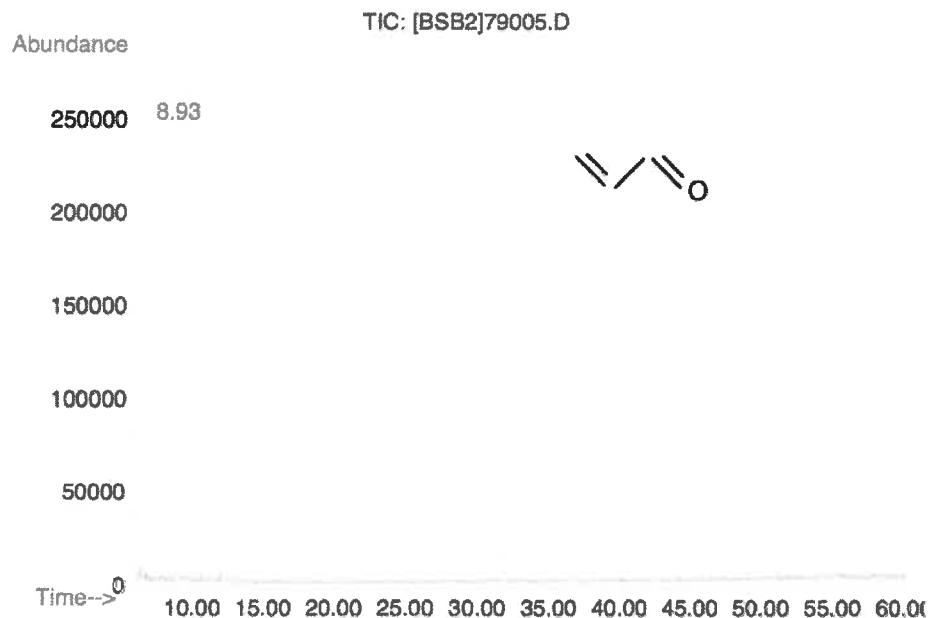
Expiration Date: 061925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

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

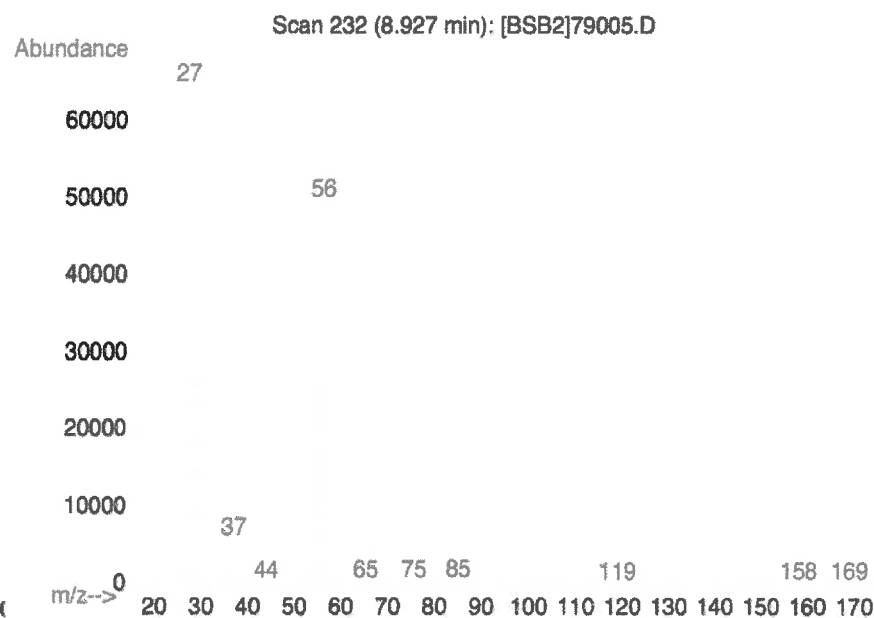
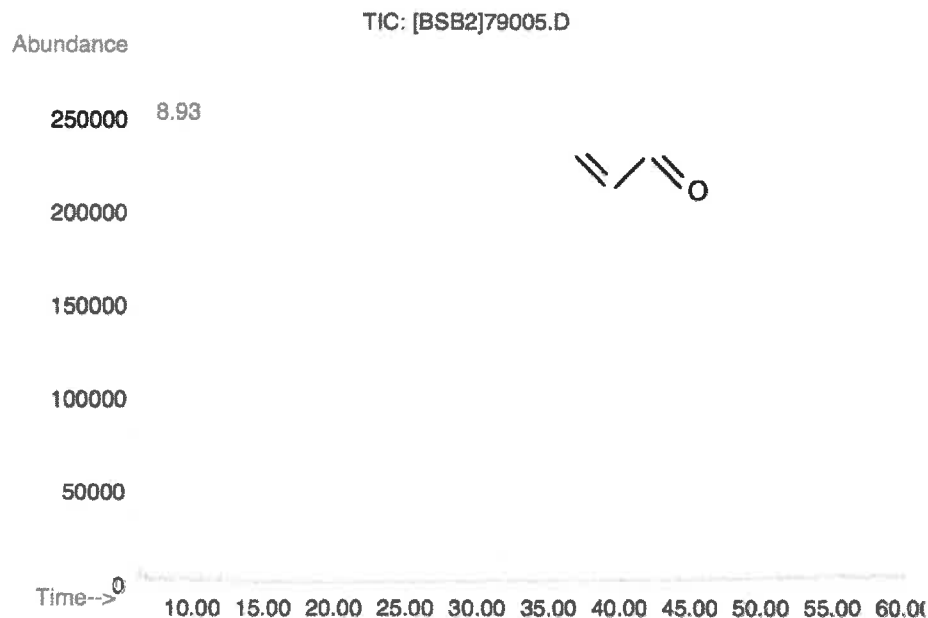
Expiration Date: 061925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

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.



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- Rev 1.0, 2/25/2025



Certified Reference Material CRM

see 05/21/25



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Part Number: **91980**
Lot Number: **051925**
Description: **Acrolein**

Solvent(s):
Water Lot# 041725Q

5.019

114944-114948

		051925
Formulated By:	Lawrence Barry	DATE
		051925
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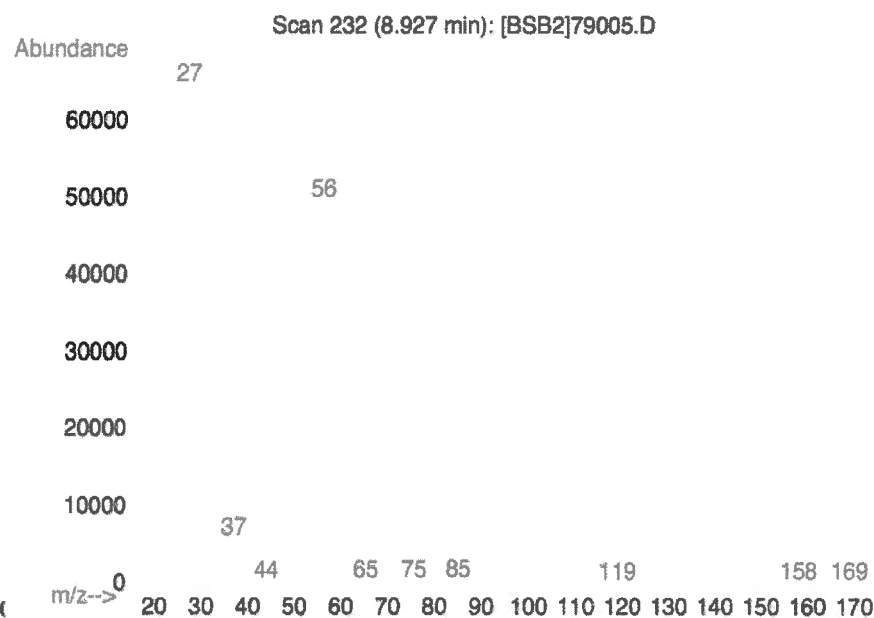
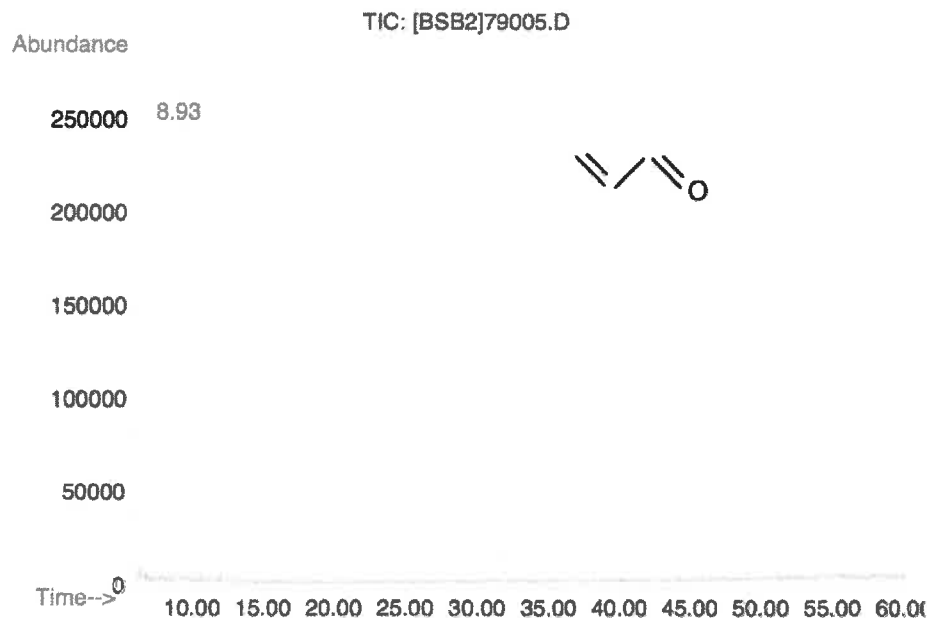
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										CAS#	OSHA PEL (TWA)	LD50
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- Rev 1.0, 2/25/2025



SHIPPING DOCUMENTS

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CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: Jacobs
ADDRESS: 412 Mt. Kemble Ave., Suite 100
CITY Morrisstown STATE: NJ ZIP: 07960
ATTENTION: John Yinfant John.Yinfant@Jacobs.com
PHONE: FAX:

PROJECT NAME: STC Princeton
PROJECT NO.: D3868221 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
E-mail: Mary.Murphy@Jacobs.com
PHONE: FAX:

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:
ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard TAT 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

Site Specific Vocs (6060B) 14-Dioxane (6020E) Total Metals (6020B) Dissolved Iron (6020B) Alkalinity (6020B) TDS (SM 2540C) Arsenic (9086) Tr

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		A/E	E	B/E	B/E	E	E	E			← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER	
1.	MW-11A-13.5-060525	GW		X	6/5/25	1230	15	X	X								M5/M5D	
2.	MW-06-6.5-060525	GW		X	6/5/25	1310	2	X	X									
3.	EB02-060525	DI		X	6/5/25	0930	10	X	X	X	X	X	X	X	X			
4.	TB-01-060525	DI		X	6/5/25	1600	2	X										
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>6/5/25</u>	RECEIVED BY: <u>IT</u>	Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>3.2</u> °C
1. <u>IT</u>		1. <u>IT</u>	Comments: <u>See work order for list of site specific vocs</u>
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	<u>PO # 148064511</u>
2.		2.	
RELINQUISHED BY SAMPLER:	DATE/TIME: <u>6.5.25</u>	RECEIVED BY:	
3. <u>IT</u>		3.	

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 : Q2250	JACO05	Order Date : 6/5/2025 4:22:00 PM	Project Mgr :
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger STC	Report Type : Level 4
Client Contact : John Ynfante		Receive DateTime : 6/5/2025 12:00:00 AM 17:30	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order :	Hard Copy Date :
Invoice Contact : John Ynfante			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2250-01	MW-11A-13.5-060525	Water	06/05/2025	12:30	VOCMS Group3		8260-Low	10 Bus. Days	
Q2250-02	Q2250-01MS	Water	06/05/2025	12:30	VOCMS Group3		8260-Low	10 Bus. Days	
Q2250-03	Q2250-01MSD	Water	06/05/2025	12:30	VOCMS Group3		8260-Low	10 Bus. Days	
Q2250-04	MW-06-6.5-060525	Water	06/05/2025	13:10	VOCMS Group3		8260-Low	10 Bus. Days	
Q2250-05	EB02-060525	Water	06/05/2025	09:30	VOCMS Group3		8260-Low	10 Bus. Days	yg 06/11/25
Q2250-06	TB-01-060525	Water	06/05/2025	16:00	VOCMS Group3		8260-Low	10 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2250	JACO05	Order Date : 6/5/2025 4:22:00 PM	Project Mgr :
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger STC	Report Type : Level 4
Client Contact : John Ynfante		Receive DateTime : 6/5/2025 12:00:00 AM 17:30	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order :	Hard Copy Date :
Invoice Contact : John Ynfante			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 : 6/6/25 0810

SAMPLES RECEIVED ON 6/5/25
placed in SM-REF-2

Received By : 

Date / Time : 06/06/25 2110 Rg # 4

Storage Area : VOA Refridgerator Room